## General Disclaimer

## One or more of the Following Statements may affect this Document

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.

- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.

- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.

- This document is paginated as submitted by the original source.

- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

# NASA TECHNICAL MEMORANDUM

NASA TM X-73955

NASA TM X-73955

(NASA-TM-X-73955) SUBSONIC LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF A VECTORED-ENGINE-OVER-WING CONFIGURATION HAVING SPANWISE LEADING-EDGE VORTEX ENHANCEMENT (NASA) 221 p HC A10/MF A01

N77-27072

G3/02 Unclas 36817

# SUBSONIC LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF A VECTORED-ENGINE-OVER-WING CONFIGURATION HAVING SPANWISE LEADING EDGE VORTEX ENHANCEMENT

By

Jarrett K. Huffman

and

Charles H. Fox, Jr.

NASA Langley Research Center

May 1977



National Aeronautics and Space Administration

**Langley Research Center**
Hampton, Virginia 23665

# INTRODUCTION

A recent major trend in the conceptual design of advanced fighter aircraft has been the emphasis on achieving a high degree of maneuverability. The use of canards, maneuvering flaps, and wing leading edge vortex enhancement are being actively studied as methods of increasing the maximum useable lift capability and thereby the maneuverability of a configuration.

Previous studies have demonstrated the performance improvements related to the use of a close coupled canard-wing concept (ref. 1) and to the use of spanwise blowing to enhance the wing-leading edge vortex of a typical configuration (ref. 2).

In the late 1950's considerable research was done at the Langley Research Center where the jet efflux was exhausted externally over the top of the wing and deflected downward by trailing-edge flaps. The results indicated that the concept provided good aerodynamic efficiency and, because the wing tended to shield the engine noise from the ground, offered advantages for minimizing the noise associated with powered lift (see refs. 3 and 4).

The present study is concerned with a configuration which integrates a close coupled canard-wing combination, spanwise blowing for enhancement of the wing leading edge vortex, an engine-over-wing concept, and a wing trailing edge coanda-effect flap. The purpose of the present paper is to present the data on this configuration in tabular form without discussion in order to expedite publication.

The investigation was conducted in the Langley 7- by 10-foot high speed tunnel at a Mach number of 0.166 through an angle-of-attack range from -2 to 22 degrees. Rectangular main engine nozzles of aspect ratio 4, 6, and 8 were tested over a momentum coefficient range from 1.0 to 1.8.

It should be noted that the present study represents a joint General Dynamics - Air Force - NASA undertaking.

## COEFFICIENT AND SYMBOLS

The International System of Units is used for the physical quantities in this paper. The symbols in parenthesis are used in the data tabulation (Table 6). The data presented in this report are referred to both the body and stability axis.

| | |
|---|---|
| AR | aspect ratio |
| $A_N$ | main nozzle area |
| $A_{NJ}$ | total area of main nozzle and spanwise nozzle, $A_N + A_J$ |
| $A_J$ | spanwise nozzle area |
| b | wing span |
| $\bar{c}$ | mean geometric chord |
| $C_A$ (CAF) | total axial force coefficient, $\frac{\text{axial force}}{qS}$ |
| $C_D$ (CD) | total drag coefficient (uncorrected), $\frac{\text{drag}}{qS}$ |
| $C_{D,EQ.}$ (CD,EQ) | equivalent drag coefficient |
| $C_{D,NOM}$ (CD,NOM) | thrust corrected drag coefficient |
| $C_{D,C}$ (CD,C) | drag coefficient correction for balance chamber pressure |
| $C_{D,N}$ (CD,N) | nozzle drag coefficient correction when $C_{\mu,N}$ is equal to zero |

| | |
|---|---|
| $C_L$ (CL) | total lift coefficient, $\frac{\text{lift}}{qS}$ |
| $C_{L,EQ}$ (CL,EQ) | equivalent lift coefficient |
| $C_{L,NOM}$ (CL,NOM) | thrust corrected lift coefficient |
| $C_m$ (CM) (CPM) | total pitching moment coefficient, $\frac{\text{pitching-moment}}{qS\bar{c}}$ |
| $C_{m,EQ}$ (CM,EQ) | equivalent pitching-moment coefficient |
| $C_{m,NOM}$ (CM,NOM) | thrust corrected pitching-moment coefficient |
| (CNF) | total normal-force coefficient, $\frac{\text{normal force}}{qS}$ |
| (CRM) | total rolling-moment coefficient, $\frac{\text{rolling moment}}{qS\ b}$ |
| (CYM) | total yawing-moment coefficient, $\frac{\text{yawing moment}}{qS\ b}$ |
| (CSF) | total side-force coefficient, $\frac{\text{side force}}{qS}$ |
| $C_T$ (CT) | thrust coefficient, $\frac{\text{thrust}}{qS}$ |
| c | wing chord, cm |
| $C_\mu$ (CMU) | ideal momentum coefficient |
| $C_{\mu,NOM}$ (CMU,NOM) | nominal ideal momentum coefficient |
| g | acceleration of gravity, $\frac{\text{meter}}{\text{sec}^2}$ |
| $p_\infty$ | free-stream static pressure, $N/m^2$ |

| | |
|---|---|
| $p_{t,N}$ | nozzle plenum total pressure, $N/m^2$ |
| (P,INF) | free-stream static pressure, $N/m^2$ |
| q(Q) | dynamic pressure, $N/m^2$ |
| S | reference wing area, $m^2$ |
| $T_N$ | nozzle plenum temperature, °R |
| $T_t$ | tunnel total temperature, °R |
| $V_N$ | nozzle exit velocity, meter/sec |
| $\dot{w}_p$ (WTFLOW) | weight flow, N/sec |
| $\bar{x}$ | longitudinal moment transfer distance, cm |
| $\bar{z}$ | vertical moment transfer distance, cm |
| $\alpha$ (ALPHA) | angle of attack, deg. |
| $\beta$ (BETA) | angle of sideslip, deg. |
| $\eta$ | static thrust recovery efficiency |
| $\eta_N$ | nozzle efficiency factor |
| $\theta_T$ (THETA, T) | jet deflection angle, deg. |
| NPR | nozzle pressure ratio |
| $\Lambda$ | leading-edge sweep angle, deg. |
| $\delta$ | control surface deflection, deg. |

## MODEL

| | |
|---|---|
| BL | Body Line |
| F | fuselage |
| FS | fuselage station |
| $f_1$ | leading edge wing flap |
| $f_2$ | trailing-edge wing flap (outboard) |
| $f_3$ | trailing-edge wing flap (inboard)(coanda flap) |
| $f_4$ | an extended and cambered $f_3$ |
| N | nozzle |
| NS | nacelle station |
| J | spanwise nozzle |
| H | canard |
| W | wing |
| WL | water line |
| MCP | mean chord plane |
| CCP | canard chord plane |

## MODEL AND APPARATUS

Drawings of the test model for the vectored-engine-over-wing concept investigated are shown in figure 1 and photographs of the model mounted in the 7- by 10-foot high speed tunnel are shown in figure 2. Geometric characteristics of the model are given in Table 1.

The model consisted of a canard-wing-body-engine configuration supplied by General Dynamics. The fuselage consisted of a body of revolution designed for the General Dynamics 5.2 inch diameter flow-through balance.

The wing had a leading edge sweep of 40° with a cranked trailing edge. The airfoil section was a 64A2xx with the ordinates given in Fig. 1.

Interchangeable rectangular main engine nozzles of aspect ratio 4, 6, and 8 were tested, the aspect ratio 4 and 6 nozzles being tested with and without spanwise blowing nozzles. The various nozzle areas are given in Table 2. Each nozzle plenum was instrumented with three total pressure probes and a total temperature thermocouple.

The overwing mounted nacelle/nozzle system was tailored to the wing design. The wing incorporates a full span leading edge flap and a trailing edge flap with the inboard coanda effect flap independent of the outboard flap.

The high pressure air was fed through a hollow sting and through the flow-through balance to the nacelle/nozzle system. The flow-through

balance contained a bellows arrangement which permitted the balance to measure the total aerodynamic-plus-propulsive forces and moments. A solid inlet nacelle fairing enclosed the air supply plumbing for the nozzles (see figure 1). This nacelle fairing was the only aspect of the model which did not represent an actual configuration.

The total weight flow of the high pressure air flowing through the nozzles was measured by means of a calibrated venturi-type flowmeter in the air supply line.

The model was tested employing the General Dynamics Corp. balance C-6-3.75-B. This flow-through balance was calibrated at Langley Research Center to obtain balance constants for use in reducing the data.

The model could be tested with or without a forward mounted canard (see figure 1). Two canards of similar planforms were tested where the exposed canard area represented either 15 or 20 percent of the wing reference area.

## TEST AND CORRECTIONS

The investigation was conducted in the Langley 7- by 10-foot high speed tunnel. The free stream dynamic pressure for the majority of the test program was 1940 $N/m^2$ corresponding to a Mach number of 0.166. The Reynolds number based on the wing reference chord and free stream velocity was approximately $1.2 \times 10^6$. For the slotted configuration of the test section, the blockage and jet boundary corrections are unknown for the powered model of the present test. Thus these corrections could not be applied to the data. The fuselage cavity pressure was measured and the drag data have been corrected to a condition of free stream static pressure at the fuselage base.

The angle of attack was varied from -2° to 22° at a sideslip angle of 0°. The angle of attack was corrected for the deflection of the sting and balance due to aerodynamic loads.

Transition strips consisting of .238 cm wide No. 80 carborundum grains were placed 2.540 cm. streamwise from the leading edge of all surfaces and 4.064 cm behind the nose of the model.

The deflection of the wing leading and trailing edge flaps were varied from 0° to 20° at the test thrust coefficient values of 0.0, 1.2, 1.5, and 1.8 for the test nozzle aspect ratios of 4, 6, and 8.

The two canards were tested in combination with the aspect ratio 4 nozzle.

Calibrations were made to determine the thrust and the weight flow rate of the engine simulators as a function of the nozzle aspect

ratio and the nozzle pressure ratio which was determined from the nozzle plenum pressures. These calibrations were made at zero airspeed for the configuration with the wings removed and reflect the static thrust only. The values of thrust coefficient are based on this static thrust calibration and are presented as the conventional thrust coefficient, $C_T$, that is, static thrust nondimensionalized with respect to wing area and free stream dynamic pressure where the latter is set equal to 1.0 for the zero airspeed case. The weight flow rate measured by the flowmeter is used to compute the idealized thrust coefficient, $C_\mu$. $C_T$ and $C_\mu$ are shown in figure 3 as a function of NPR for the various nozzle configurations tested.

Jet deflection angles and static thrust recovery efficiency were determined from measurements of the normal and axial forces made under static thrust conditions with flaps deflected. (See figure 4.)

## DATA REDUCTION

The balance measured total aerodynamic-plus-thrust loads. Forces and moments corresponding to these total loads were calculated based on the balance calibration.

The nozzle pressure ratio, NPR, was calculated as:

$$NPR = \frac{p_{t_N}}{p_\infty}$$

The momentum coefficient was computed as:

$$C_{\mu_N} = \frac{1}{2gqS} \dot{W}_p \frac{A_N}{A_{NJ}} \left\{ 109.6 \left[ T_N \left( 1 - \left( \frac{1}{NPR} \right)^{2/7} \right) \right]^{1/2} \right\}$$

$$C_{\mu_J} = \frac{1}{2gqS} \dot{W}_p \frac{A_J}{A_{NJ}} \left\{ 109.6 \left[ T_N \left( 1 - \left( \frac{1}{NPR} \right)^{2/7} \right) \right]^{1/2} \right\}$$

The thrust coefficient was computed as:

$$C_T = \eta \left( C_{\mu_N} + C_{\mu_J} \right)$$

The lift, drag, and pitching moment coefficient corresponding to total loads are given by:

$$C_L = \frac{NF}{qS} \cos \alpha - \frac{AF}{qS} \sin \alpha$$

$$C_D = \frac{NF}{qS} \sin \alpha + \frac{AF}{qS} \cos \alpha$$

$$C_m = \frac{PM}{qS\bar{c}}$$

The equivalent aerodynamic lift, drag, and pitching moment coefficient with thrust removed are given by:

$$C_{L,EQ} = C_L - C_T \sin \alpha$$

$$C_{D,EQ} = C_D - C_{D_C} + C_T \cos \alpha$$

$$C_{m,EQ} = C_m - C_T \, z/\bar{c}$$

For the leading-edge vortex enhancement (spanwise blowing) configurations the ideal momentum coefficient from the spanwise nozzle ($C_{\mu_J}$) was added to the over-wing nozzle momentum coefficient ($C_{\mu,N}$) to obtain the thrust coefficient to compute the equivalent longitudinal aerodynamic characteristics. This approximation made it possible to

compare different nozzle arrangements at a constant thrust.

The nominal lift, drag, and pitching moment coefficient corresponding to a selected nominal momentum coefficient, $C_{\mu,NOM}$, are given by:

$$C_{L,NOM} = C_{L,EQ} + \eta \; C_{\mu,NOM} \; \sin \alpha$$

$$C_{D,NOM} = C_{D,EQ} - \eta \; C_{\mu,NOM} \; \cos \alpha$$

$$C_{M,NOM} = C_{m,EQ} + \eta \; C_{\mu,NOM} \; z/\bar{c}$$

## RESULTS

The results of the investigation are presented without discussion in Table 4, and are analyzed in detail in ref. 5. A run schedule is presented in Table 3. Some typical data are presented in figure 5 to illustrate the effect on the longitudinal aerodynamic characteristics of a configuration utilizing a close-coupled canard-wing, spanwise blowing over the wing, and a vectored-engine-over wing installation with a wing trailing-edge coanda-effect flap. The data indicate that for the configuration with no canard and with NPR=2.8, spanwise blowing results in sizeable increases in lift and improvements in the drag polar. Adding the canard delays the beneficial effects of spanwise blowing on the drag polar to higher lift coefficients.

## REFERENCES


1. Gloss, Blair B.; and McKinney, Linwood W.: Canard-Wing Lift Interference Related to Maneuvering Aircraft at Subsonic Speeds. NASA TMX-2897, 1975.

2. Bradley, R. G.; Whitten, P. D. and Wray, W. O.: Leading-Edge-Vortex Augmentation In Compressible Flow. General Dynamics Fort Worth Division, Fort Worth Texas, AIAA paper 75-124.

3. Turner, Thomas R.; Davenport, Edwin E.; and Riebe, John M.: Low-Speed Investigation of Blowing From Nacelles Mounted Inboard and on the Upper Surface of an Aspect-Ratio 7.0 35° swept wing With Fuselage and Tail Arrangements. NASA Memo 5-1-59L, 1959.

4. Maglieri, Domenic J.; and Hubbard, Harvey H.: Preliminary Measurements of the Noise Characteristics of Some Jet-Augmented-Flap Configurations. NASA Memo 12-4-53L, 1959.

5. Woody, R. W.; Whitten, P. D.; Smith, C. W.; and Bradley, R. G.: An Experimental Investigation of A Vectored-Engine-Over-Wing Powered-Lift Concept. AFFDL-TR-76-92, Sept. 1976.

TABLE 1. - PHYSICAL CHARACTERISTICS OF THE TEST MODEL

FUSELAGE:

| | |
|---|---|
| Diameter of body-of revolution with a pointed nose shape | 15.875 cm |
| Total body length | 177.80 cm |

HORIZONTAL CANARD:

All moveable canard (small)

| | |
|---|---|
| Exposed area | .043387 $m^2$ |
| Span geometric (root to tip) | 17.4904 cm |
| Mean Geometric chord | 15.3416 |
| Leading-Edge Sweep | 50° |
| Hinge line location | FS 36.140 |
| Aspect Ratio | 2.5 |
| Taper ratio | .3 |
| Dihedral | 0° |
| Airfoil Section | 4.0% circular arc |

All Moveable canard (large)

| | |
|---|---|
| Exposed area | .0654192 $m^2$ |
| Span (root to tip) | 20.221 |
| Mean Geometric chord | 17.739 |
| Leading-Edge Sweep | 50° |
| Hinge line location | FS 36.140 |
| Aspect Ratio | 2.5 |
| Taper Ratio | .3 |
| Dihedral | 0° |
| Airfoil section | 4.0% circular arc |

WING:

| | |
|---|---|
| Area (reference-based on theoretical trapezoidal planform) | .3252 $m^2$ |
| Span | 110.424 cm |
| Mean Geometric chord | 31.250 cm |

TABLE 1. - Concluded

| | |
|---|---|
| Leading-Edge Sweep | 40° |
| Aspect Ratio | 3.75 |
| Taper Ratio | .4 |
| Dihedral | 0 |
| Airfoil | 64A2xx |

TABLE 2.- NOZZLE AREAS IN $CM^2$

| | LEFT NOZZLE | LEFT SPAN NOZZLE | RIGHT SPAN NOZZLE | RIGHT NOZZLE |
|---|---|---|---|---|
| NOZZLE AR 4 | | | | |
| Without Spanwise Nozzle (RAMP N1a) | 22.997 | -- | -- | 23.267 |
| With Spanwise Nozzle (RAMP N1b) | 19.797 | 3.251 | 3.251 | 20.008 |
| With Spanwise Nozzle (RAMP N1c) | 16.622 | 6.493 | 6.493 | 16.406 |
| NOZZLE AR 6 | | | | |
| Without Spanwise Nozzle (RAMP N2a) | 23.183 | -- | -- | 23.173 |
| With Spanwise Nozzle (RAMP N2b) | 19.790 | 3.194 | 3.285 | 19.788 |
| With Spanwise Nozzle (RAMP N2c) | 16.827 | 6.470 | 6.470 | 16.604 |
| NOZZLE AR 8 | | | | |
| Without Spanwise Nozzle (RAMP N3a) | 22.425 | -- | -- | 22.030 |

TABLE 3.- RUN SCHEDULE

| Run | M | Nozzle AR | Spanwise nozzle config | Nozzle plug | NPR | $\delta_{f_1}$ | $\delta_{f_2}$ | $\delta_{f_3}$ | $\delta_{f_4}$ | $\delta_c$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .17 | .6 | OFF | $N_{2a}$ | 2.8 | 0 | 0 | 10 | OFF | OFF | | | |
| 2 | | | | | 2.5 | | | | | | | | |
| 3 | | | | | 2.0 | | | | | | | | |
| 4 | | | | | 1.0 | | | | | | | | |
| 7 | .166 | | | | 1.0 | | | 0 | | | | | |
| 8 | | | | | 2.0 | | | | | | | | |
| 9 | | | | | 2.5 | | | | | | | | |
| 10 | | | | | 2.8 | | | | | | | | |
| 12 | 0 | | | | 2.8 | | | 15 | | | | | |
| 13 | .166 | | | | 1.0 | | | | | | | | |
| 14 | | | | | 2.0 | | | | | | | | |
| 15 | | | | | 2.5 | | | | | | | | |
| 16 | | | | | 2.8 | | | | | | | | |
| 17 | | | | | 1.0 | | | 20 | | | | | |
| 18 | | | | | 2.0 | | | | | | | | |
| 19 | | | | | 2.5 | | | | | | | | |
| 20 | | | | | 2.8 | | | | | | | | |
| 23 | | | | | 1.0 | | | OFF | 20 | | | | |
| 24 | | | | | 2.0 | | | | | | | | |
| 25 | | | | | 2.5 | | | | | | | | |
| 26 | | | | | 2.8 | | | | | | | | |
| 28 | | | | | 1.0 | | 20 | | | | | | |
| 29 | | | | | 2.8 | | | | | | | | |
| 31 | | | | | 1.0 | | 15 | | 15 | | | | |
| 32 | | | | | 2.5 | | | | | | | | |
| 33 | | | | | 1.0 | | | 15 | OFF | | | | |
| 34 | | | | | 2.8 | | | | | | | | |

TABLE 3.- CONTINUED

| Run | M | Nozzle AR | Span-wise nozzle config | Nozzle plug | NPR | $\delta_{f_1}$ | $\delta_{f_2}$ | $\delta_{f_3}$ | $\delta_{f_4}$ | $\delta_c$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | .166 | 6 | OFF | $N_{2a}$ | 1.0 | 0 | 10 | 10 | OFF | OFF | | | |
| 36 | | | | | 2.8 | | | | | | | | |
| 37 | 0 | | | | 2.8 | | 0 | OFF | 0 | | | | |
| 38 | .166 | | | | 1.0 | | | | | | | | |
| 39 | | | | | 2.8 | | | | | | | | |
| 40 | | | | | 1.0 | 20 | 0 | 0 | OFF | | | | |
| 41 | | | | | 2.8 | | | | | | | | |
| 42 | | | | | 1.0 | 10 | | | | | | | |
| 43 | | | | | 2.8 | | | | | | | | |
| 44 | | | | | 2.8 | | | | | | | | |
| 45 | | | | | 1.0 | | 15 | 15 | | | | | |
| 46 | | | | | 2.8 | | | | | | | | |
| 47 | | | | | 1.0 | 20 | | | | | | | |
| 48 | | | | | 2.8 | | | | | | | | |
| 50 | | | Large | $N_{2c}$ | 1.0 | | | | | | | | |
| 51 | | | | | 2.8 | | | | | | | | |
| 52 | | | | | 1.0 | 10 | | | | | | | |
| 53 | | | | | 2.8 | | | | | | | | |
| 55 | | | | | 1.0 | 0 | | | | | | | |
| 56 | | | | | 2.0 | | | | | | | | |
| 57 | | | | | 2.5 | | | | | | | | |
| 58 | | | | | 2.8 | | | | | | | | |
| 60 | 0 | | | | 2.8 | 0 | 0 | 0 | | | | | |
| 61 | .166 | | | | 1.0 | | | | | | | | |
| 62 | | | | | 2.0 | | | | | | | | |
| 63 | | | | | 2.5 | | | | | | | | |
| 64 | | | | | 2.8 | | | | | | | | |

TABLE 3.- CONTINUED

| Run | M | Nozzle AR | Spanwise nozzle config | Nozzle plug | NPR | $\delta_{f_1}$ | $\delta_{f_2}$ | $\delta_{f_3}$ | $\delta_{f_4}$ | $\delta_c$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 65 | .166 | 6 | Large | $N_{2c}$ | 1.0 | 10 | 0 | 0 | OFF | OFF | | | |
| 66 | | | " | | 2.8 | | | | | | | | |
| 67 | | | | | 1.0 | 20 | | | | | | | |
| 68 | | | | | 2.8 | | | | | | | | |
| 69 | | | Small | $N_{2b}$ | 1.0 | | 10 | 15 | | | | | |
| 70 | | | | | 2.8 | | | | | | | | |
| 71 | | | | | 1.0 | 0 | | | | | | | |
| 72 | | | | | 2.0 | | | | | | | | |
| 73 | | | | | 2.5 | | | | | | | | |
| 74 | | | | | 2.8 | | | | | | | | |
| 76 | | | | | 1.0 | | 15 | | | | | | |
| 77 | | | | | 2.0 | | | | | | | | |
| 78 | | | | | 2.5 | | | | | | | | |
| 79 | | | | | 2.8 | | | | | | | | |
| 81 | | | | | 1.0 | | | OFF | 15 | | | | |
| 82 | | | | | 2.8 | | | | | | | | |
| 84 | | | | | 1.0 | | 0 | 0 | OFF | | | | |
| 85 | | | | | 2.8 | | | | | | | | |
| 87 | | 4 | OFF | $N_{1a}$ | 1.0 | | | | | | | | |
| 88 | | | | | 2.0 | | | | | | | | |
| 89 | | | | | 2.5 | | | | | | | | |
| 90 | | | | | 2.8 | | | | | | | | |
| 92 | | | | | 1.0 | | | 10 | | | | | |
| 93 | | | | | 2.0 | | | | | | | | |
| 94 | | | | | 2.5 | | | | | | | | |
| 95 | | | | | 2.8 | | | | | | | | |
| 97 | | | | | 1.0 | | | 15 | | | | | |

TABLE 3.- CONTINUED

| Run | M | Nozzle AR | Spanwise nozzle config | Nozzle plug | NPR | $\delta_{f_1}$ | $\delta_{f_2}$ | $\delta_{f_3}$ | $\delta_{f_4}$ | $\delta_c$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98 | .166 | 4 | OFF | $N_{1a}$ | 2.0 | 0 | 0 | 15 | OFF | OFF | | | |
| 99 | | | | | 2.5 | | | | | | | | |
| 100 | | | | | 2.8 | | | | | | | | |
| 102 | | | | | 1.0 | | | 20 | | | | | |
| 103 | | | | | 2.8 | | | | | | | | |
| 105 | | | | | 1.0 | | | OFF | 20 | | | | |
| 106 | | | | | 2.8 | | | | | | | | |
| 107 | | | | | 1.0 | | 20 | 20 | OFF | | | | |
| 108 | | | | | 2.8 | | | | | | | | |
| 109 | | | | | 1.0 | | 15 | 15 | | | | | |
| 110 | | | | | 2.8 | | | | | | | | |
| 111 | | | | | 1.0 | 20 | | | | | | | |
| 112 | | | | | 2.8 | | | | | | | | |
| 113 | | | | | 1.0 | | 0 | 0 | | | | | |
| 114 | | | | | 2.8 | | | | | | | | |
| 116 | | | 1.0 in | $N_{1c}$ | 1.0 | 0 | 15 | 15 | | | | | |
| 117 | | | | | 2.8 | | | | | | | | |
| 119 | | | 0.5 | $N_{1b}$ | 1.0 | | | | | | | | |
| 120 | | | | | 2.8 | | | | | | | | |
| 121 | | | | | 1.0 | | | | | Large $0^\circ$ | | | |
| 122 | | | | | 2.8 | | | | | | | | |
| 123 | | | | | 1.0 | | | | | Large $-20^\circ$ | | | |
| 124 | | | | | 2.8 | | | | | | | | |
| 125 | | | | | 1.0 | | | | | Large $+20^\circ$ | | | |
| 126 | | | | | 2.8 | | | | | | | | |
| 127 | | | | | 1.0 | | | | | Large $+10^\circ$ | | | |
| 128 | | | | | 2.8 | | | | | | | | |

TABLE 3.- CONTINUED

| Run | M | Nozzle AR | Spanwise nozzle config | Nozzle plug | NPR | $\delta_{f_1}$ | $\delta_{f_2}$ | $\delta_{f_3}$ | $\delta_{f_4}$ | $\delta_c$ |
|---|---|---|---|---|---|---|---|---|---|---|
| 129 | .166 | 4 | 0.5 | $N_{1b}$ | 1.0 | 0 | 15 | 15 | OFF | Large -10° |
| 130 | | | | | 2.8 | | | | | |
| 131 | | | | | 1.0 | | | | | Small 0° |
| 132 | | | | | 2.8 | | | | | |
| 133 | | | | | 1.0 | | 0 | | | |
| 134 | | | | | 2.8 | | | | | |
| 135 | | | | | 1.0 | | | | | OFF |
| 136 | | | | | 2.8 | | | | | |
| 137 | | | OFF | $N_{1a}$ | 1.0 | | 15 | | | Large 0 |
| 138 | | | | | 2.8 | | | | | |
| 139 | | | | | 1.0 | 20 | | | | |
| 140 | | | | | 2.8 | | | | | |
| 141 | | | | | 1.0 | | | | | Large +20° |
| 142 | | | | | 2.8 | | | | | |
| 143 | | | | | 1.0 | | | | | Large -20° |
| 144 | | | | | 2.8 | | | | | |
| 145 | | | | | 1.0 | | | | | Large +10 |
| 146 | | | | | 2.8 | | | | | |
| 147 | | | | | 1.0 | | | | | Large -10 |
| 148 | | | | | 2.8 | | | | | |
| 149 | | | | | 1.0 | | | | | Small 0 |
| 150 | | | | | 2.8 | | | | | |
| 151 | | | | | 1.0 | | | | | Small +20 |
| 152 | | | | | 2.8 | | | | | |
| 153 | | | | | 1.0 | | | | | Small -20 |
| 154 | | | | | 2.8 | | | | | |
| 156 | | 8 | | $N_{3a}$ | 1.0 | | | | | OFF |

TABLE 3.- CONTINUED

| Run | M | Nozzle AR | Spanwise nozzle config | Nozzle plug | NPR | $\delta_{f_1}$ | $\delta_{f_2}$ | $\delta_{f_3}$ | $\delta_{f_4}$ | $\delta_c$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 157 | .166 | 8 | OFF | $N_{3a}$ | 2.0 | 20 | 15 | 15 | OFF | OFF | | | |
| 158 | | | | | 2.5 | | | | | | | | |
| 159 | | | | | 2.8 | | | | | | | | |
| 160 | | | | | 1.0 | 0 | | | | | | | |
| 161 | | | | | 2.8 | | | | | | | | |
| 162 | | | | | 1.0 | | 0 | | | | | | |
| 163 | | | | | 2.0 | | | | | | | | |
| 164 | | | | | 2.5 | | | | | | | | |
| 165 | | | | | 2.8 | | | | | | | | |
| 168 | | | | | 1.0 | | | 10 | | | | | |
| 169 | | | | | 2.0 | | | | | | | | |
| 170 | | | | | 2.5 | | | | | | | | |
| 171 | | | | | 2.8 | | | | | | | | |
| 172 | | | | | 1.0 | | 10 | | | | | | |
| 173 | | | | | 2.0 | | | | | | | | |
| 174 | | | | | 2.5 | | | | | | | | |
| 175 | | | | | 2.8 | | | | | | | | |
| 176 | | | | | 1.0 | | 20 | OFF | 20 | | | | |
| 177 | | | | | 2.8 | | | | | | | | |
| 180 | | | | | 2.8 | | 0 | 0 | OFF | | | | |
| 181 | | | | | 2.5 | | | | | | | | |
| 182 | | | | | 1.0 | | | | | | | | |
| 183 | | 4 | | $N_{1a}$ | 1.0 | | | | | Small 0° | | | |
| 184 | | | | | 2.8 | | | | | | | | |
| 185 | .400 | | | | 1.0 | | | | | | | | |
| 186 | | | | | 2.8 | | | | | | | | |
| 187 | .166 | | | | 1.0 | | | | | Large 0° | | | |

TABLE 3.- CONCLUDED

| Run | M | Nozzle AR | Spanwise nozzle config | Nozzle plug | NPR | $\delta_{f_1}$ | $\delta_{f_2}$ | $\delta_{f_3}$ | $\delta_{f_4}$ | $\delta_c$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 188 | .166 | 4 | OFF | $N_{1a}$ | 2.8 | 0 | 0 | 0 | OFF | Large 0° | | | |
| 189 | .400 | | | | 1.0 | | | | | | | | |
| 190 | | | | | 2.8 | | | | | | | | |
| 191 | .166 | | | | 1.0 | | | | | Large +20 | | | |
| 192 | | | | | 2.8 | | | | | | | | |
| 193 | | | | | 1.0 | | | | | Large -20 | | | |
| 194 | | | | | 2.8 | | | | | | | | |
| 195 | .400 | | | | 1.0 | | | | | OFF | | | |
| 196 | | | | | 2.8 | | | | | | | | |
| 197 | | | | | 1.0 | 20 | 15 | 15 | | | | | |
| 198 | | | | | 2.8 | | | | | | | | |
| 199 | .166 | | 0.5 | $N_{1b}$ | 1.0 | 0 | 0 | 0 | | Large 0 | | | |
| 200 | | | | | 2.8 | | | | | | | | |

# TABLE IV. TABULATION OF THE AERODYNAMIC COEFFICIENTS

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 1

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | .169 | 2015 | .05 | .13 | 101369 | .8232 | -1.7056 | -.4613 | -.0044 | -.0035 | -.0103 |
| 12 | .169 | 2019 | -1.82 | .13 | 101369 | .6822 | -1.7009 | -.4912 | -.0047 | -.0023 | .0028 |
| 13 | .170 | 2051 | .07 | .13 | 101332 | .8150 | -1.6742 | -.4532 | -.0035 | -.0019 | .0076 |
| 14 | .171 | 2068 | 1.99 | .13 | 101319 | .9495 | -1.6668 | -.4194 | -.0037 | -.0017 | .0087 |
| 15 | .174 | 2150 | 3.94 | .13 | 101306 | 1.0490 | -1.6129 | -.3726 | -.0040 | -.0019 | .0093 |
| 16 | .171 | 2068 | 5.93 | .13 | 101322 | 1.2427 | -1.7088 | -.3566 | -.0039 | -.0021 | .0208 |
| 17 | .171 | 2064 | 7.99 | .13 | 101325 | 1.4013 | -1.7173 | -.3210 | -.0031 | -.0026 | .0145 |
| 19 | .172 | 2091 | 10.06 | .13 | 101363 | 1.5093 | -1.7055 | -.2953 | -.0030 | -.0017 | .0085 |
| 20 | .169 | 2025 | 12.14 | .13 | 101372 | 1.6872 | -1.7601 | -.2775 | -.0028 | -.0014 | .0084 |
| 21 | .170 | 2051 | 14.24 | .13 | 101345 | 1.8068 | -1.7322 | -.2314 | -.0030 | -.0002 | -.0055 |
| 22 | .169 | 2025 | 16.17 | .13 | 101365 | 1.9652 | -1.7433 | -.2255 | -.0048 | -.0012 | .0088 |
| 23 | .169 | 2035 | 18.22 | .13 | 101359 | 2.1342 | -1.7325 | -.2033 | -.0027 | -.0005 | .0084 |
| 24 | .171 | 2068 | 20.20 | .13 | 101335 | 2.2838 | -1.7077 | -.1641 | -.0023 | -.0002 | .0093 |
| 25 | .170 | 2058 | 21.62 | .13 | 101339 | 2.4200 | -1.7168 | -.1388 | -.0019 | .0001 | .0072 |
| 26 | .169 | 2025 | .06 | .13 | 101365 | .7780 | -1.5796 | -.4289 | -.0007 | -.0025 | .0090 |

TEST 995 RUN 1

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 11 | .0467 | 30.9960 | 2.8709 | 16.0000 | 1.7921 | 1.8328 | 0.0000 | -1.8037 | .0181 |
| 12 | -1.8173 | 30.9098 | 2.8643 | 16.0000 | 1.7908 | 1.8315 | 0.0000 | -1.7964 | .0181 |
| 13 | .0703 | 30.8247 | 2.8620 | 16.0000 | 1.7564 | 1.7963 | 0.0000 | -1.7627 | .0181 |
| 14 | 1.9888 | 30.7596 | 2.8622 | 16.0000 | 1.7403 | 1.7799 | 0.0000 | -1.7475 | .0080 |
| 15 | 3.9374 | 30.7080 | 2.8583 | 16.0000 | 1.6711 | 1.7090 | 0.0000 | -1.6738 | .0162 |
| 16 | 5.9265 | 30.8911 | 2.8739 | 16.0000 | 1.7540 | 1.7939 | 0.0000 | -1.7502 | .0168 |
| 17 | 7.9855 | 30.8081 | 2.8678 | 16.0000 | 1.7503 | 1.7901 | 0.0000 | -1.7397 | .0169 |
| 19 | 10.0605 | 30.8597 | 2.8776 | 16.0000 | 1.7380 | 1.7775 | 0.0000 | -1.7175 | .0172 |
| 20 | 12.1417 | 30.8252 | 2.8719 | 16.0000 | 1.7923 | 1.8330 | 0.0000 | -1.7757 | .0188 |
| 21 | 14.2375 | 30.7606 | 2.8725 | 16.0000 | 1.7667 | 1.8068 | 0.0000 | -1.7184 | .0209 |
| 22 | 16.1742 | 30.7279 | 2.8713 | 16.0000 | 1.7875 | 1.8281 | 0.0000 | -1.7241 | .0227 |
| 23 | 18.2199 | 30.6970 | 2.8698 | 16.0000 | 1.7777 | 1.8182 | 0.0000 | -1.6954 | .0243 |
| 24 | 20.2010 | 30.6149 | 2.8626 | 16.0000 | 1.7436 | 1.7832 | 0.0000 | -1.6416 | .0252 |
| 25 | 21.6188 | 30.6227 | 2.8585 | 16.0000 | 1.7519 | 1.7917 | 0.0000 | -1.6305 | .0251 |
| 26 | .0587 | 29.1716 | 2.7439 | 16.0000 | 1.6683 | 1.7063 | 0.0000 | -1.6730 | .0271 |

TEST 995 RUN 1

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | .0467 | .8246 | -1.7049 | -.4613 | .8231 | .0698 | -.2591 | .8246 | -1.6910 | -.4577 | 1.8000 |
| 12 | -1.8173 | .6280 | -1.7217 | -.4912 | .6847 | .0581 | -.2691 | .6289 | -1.7090 | -.4877 | 1.8000 |
| 13 | .0703 | .8170 | -1.6732 | -.4532 | .8149 | .0651 | -.2551 | .8170 | -1.6949 | -.4536 | 1.8000 |
| 14 | 1.9888 | 1.0068 | -1.6328 | -.4194 | .9464 | .0984 | -.2231 | 1.0075 | -1.6605 | -.4216 | 1.8000 |
| 15 | 3.9374 | 1.1573 | -1.5371 | -.3726 | 1.0425 | .1138 | -.1840 | 1.1634 | -1.6420 | -.3826 | 1.8000 |
| 16 | 5.9265 | 1.4125 | -1.5714 | -.3566 | 1.2313 | .1564 | -.1587 | 1.4131 | -1.5942 | -.3573 | 1.8000 |
| 17 | 7.9855 | 1.6263 | -1.5059 | -.3210 | 1.3831 | .2105 | -.1235 | 1.6277 | -1.5324 | -.3220 | 1.8000 |
| 19 | 10.0605 | 1.7841 | -1.4157 | -.2953 | 1.4885 | .2784 | -.0992 | 1.7879 | -1.4545 | -.2978 | 1.8000 |
| 20 | 12.1417 | 2.0197 | -1.3659 | -.2775 | 1.6427 | .3676 | -.0753 | 2.0129 | -1.3531 | -.2739 | 1.8000 |
| 21 | 14.2375 | 2.1773 | -1.2347 | -.2314 | 1.7428 | .4569 | -.0321 | 2.1757 | -1.2491 | -.2307 | 1.8000 |
| 22 | 16.1742 | 2.3730 | -1.1269 | -.2255 | 1.8751 | .5671 | -.0238 | 2.3653 | -1.1232 | -.2224 | 1.8000 |
| 23 | 18.2199 | 2.5688 | -.9783 | -.2033 | 2.0130 | .6860 | -.0027 | 2.5633 | -.9857 | -.2013 | 1.8000 |
| 24 | 20.2010 | 2.7330 | -.8141 | -.1641 | 2.1309 | .7971 | .0326 | 2.7386 | -.8546 | -.1659 | 1.8000 |
| 25 | 21.6188 | 2.8823 | -.7044 | -.1388 | 2.2368 | .8992 | .0589 | 2.8853 | -.7370 | -.1397 | 1.8000 |
| 26 | .0587 | .7796 | -1.5789 | -.4289 | .7779 | .0624 | -.2407 | .7797 | -1.6976 | -.4392 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 2

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYN,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 27 | .170 | 2044 | .04 | .13 | 101345 | .7046 | -1.3443 | -.3578 | -.0027 | -.0023 | .0098 |
| 28 | .169 | 2035 | -1.84 | .13 | 101355 | .5615 | -1.3451 | -.3916 | -.0029 | -.0027 | .0051 |
| 29 | .173 | 2114 | .04 | .13 | 101336 | .6814 | -1.2977 | -.3452 | -.0023 | -.0021 | .0077 |
| 30 | .170 | 2058 | 1.94 | .13 | 101332 | .8396 | -1.3385 | -.3249 | -.0019 | -.0022 | .0094 |
| 31 | .170 | 2044 | 3.86 | .13 | 101345 | .9845 | -1.3577 | -.2945 | -.0029 | -.0024 | .0108 |
| 32 | .169 | 2025 | 5.93 | .13 | 101365 | 1.1362 | -1.3873 | -.2648 | -.0035 | -.0038 | .0136 |
| 33 | .168 | 1995 | 7.92 | .13 | 101396 | 1.2910 | -1.4148 | -.2324 | -.0042 | -.0027 | .0125 |
| 34 | .170 | 2051 | 10.00 | .13 | 101339 | 1.4272 | -1.3760 | -.1987 | -.0019 | -.0023 | .0131 |
| 35 | .168 | 2015 | 12.12 | .13 | 101375 | 1.5710 | -1.4026 | -.1751 | -.0015 | -.0019 | .0092 |
| 36 | .170 | 2058 | 14.22 | .13 | 101339 | 1.6792 | -1.3711 | -.1281 | -.0008 | -.0015 | .0110 |
| 37 | .174 | 2140 | 16.21 | .13 | 101323 | 1.7838 | -1.3103 | -.1187 | -.0016 | -.0016 | .0105 |
| 38 | .171 | 2068 | 18.23 | .13 | 101322 | 2.0158 | -1.3556 | -.1059 | -.0009 | -.0014 | .0117 |
| 39 | .171 | 2074 | 20.21 | .13 | 101342 | 2.1588 | -1.3585 | -.0738 | -.0002 | -.0012 | .0118 |
| 40 | .170 | 2054 | 21.65 | .13 | 101342 | 2.3093 | -1.3765 | -.0446 | .0002 | -.0009 | .0111 |
| 41 | .170 | 2044 | .05 | .13 | 101345 | .6989 | -1.3389 | -.3576 | -.0025 | -.0024 | .0077 |

TEST 995 RUN 2

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | GT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 27 | .0449 | 26.4627 | 2.4732 | 16.0000 | 1.4318 | 1.4643 | 0.0000 | -1.3993 | .0267 |
| 28 | -1.8410 | 26.4783 | 2.4773 | 16.0000 | 1.4416 | 1.4743 | 0.0000 | -1.4094 | .0181 |
| 29 | .0426 | 26.4412 | 2.4731 | 16.0000 | 1.3844 | 1.4159 | 0.0000 | -1.3533 | .0173 |
| 30 | 1.9418 | 26.4631 | 2.4729 | 16.0000 | 1.4228 | 1.4552 | 0.0000 | -1.3891 | .0177 |
| 31 | 3.8572 | 26.4617 | 2.4736 | 16.0000 | 1.4319 | 1.4644 | 0.0000 | -1.3965 | .0176 |
| 32 | 5.9263 | 26.4591 | 2.4749 | 16.0000 | 1.4469 | 1.4798 | 0.0000 | -1.4073 | .0175 |
| 33 | 7.9225 | 26.4679 | 2.4763 | 16.0000 | 1.4683 | 1.5016 | 0.0000 | -1.4240 | .0178 |
| 34 | 9.9999 | 26.4685 | 2.4725 | 16.0000 | 1.4265 | 1.4589 | 0.0000 | -1.3729 | .0181 |
| 35 | 12.1155 | 26.4691 | 2.4713 | 16.0000 | 1.4524 | 1.4854 | 0.0000 | -1.3869 | .0191 |
| 36 | 14.2239 | 26.4623 | 2.4740 | 16.0000 | 1.4238 | 1.4561 | 0.0000 | -1.3483 | .0205 |
| 37 | 16.2071 | 26.4833 | 2.4720 | 16.0000 | 1.3689 | 1.4000 | 0.0000 | -1.2823 | .0211 |
| 38 | 18.2266 | 26.4732 | 2.4728 | 16.0000 | 1.4167 | 1.4489 | 0.0000 | -1.3136 | .0232 |
| 39 | 20.2077 | 26.5020 | 2.4756 | 16.0000 | 1.4144 | 1.4465 | 0.0000 | -1.2964 | .0247 |
| 40 | 21.6527 | 26.5086 | 2.4758 | 16.0000 | 1.4270 | 1.4594 | 0.0000 | -1.2966 | .0258 |
| 41 | .0491 | 26.5167 | 2.4777 | 16.0000 | 1.4360 | 1.4686 | 0.0000 | -1.4036 | .0181 |

TEST 995 RUN 2

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 27 | .0449 | .7056 | -1.2437 | -.3578 | .7045 | .0614 | -.1962 | .7056 | -1.4053 | -.3617 | 1.5000 |
| 28 | -1.8410 | .5180 | -1.3625 | -.3916 | .5643 | .0603 | -.2290 | .5172 | -1.4056 | -.3945 | 1.5000 |
| 29 | .0426 | .6823 | -1.2972 | -.3452 | .6813 | .0699 | -.1890 | .6824 | -1.3968 | -.3545 | 1.5000 |
| 30 | 1.9418 | .8845 | -1.3092 | -.3249 | .8362 | .0951 | -.1644 | .8859 | -1.3707 | -.3299 | 1.5000 |
| 31 | 3.8572 | 1.0736 | -1.2883 | -.2945 | .9773 | .1227 | -.1330 | 1.0760 | -1.3406 | -.2984 | 1.5000 |
| 32 | 5.9263 | 1.2734 | -1.2625 | -.2648 | 1.1240 | .1591 | -.1016 | 1.2754 | -1.2997 | -.2671 | 1.5000 |
| 33 | 7.9225 | 1.4737 | -1.2234 | -.2324 | 1.2713 | .2131 | -.0668 | 1.4735 | -1.2396 | -.2322 | 1.5000 |
| 34 | 9.9999 | 1.6444 | -1.1073 | -.1987 | 1.3967 | .2795 | -.0378 | 1.6514 | -1.1649 | -.2033 | 1.5000 |
| 35 | 12.1155 | 1.8304 | -1.0416 | -.1751 | 1.5256 | .3593 | -.0112 | 1.8334 | -1.0747 | -.1767 | 1.5000 |
| 36 | 14.2239 | 1.9646 | -.9165 | -.1281 | 1.6147 | .4431 | .0325 | 1.9751 | -.9786 | -.1329 | 1.5000 |
| 37 | 16.2071 | 2.0786 | -.7604 | -.1187 | 1.6965 | .5338 | .0357 | 2.1059 | -.8754 | -.1297 | 1.5000 |
| 38 | 18.2266 | 2.3387 | -.6571 | -.1059 | 1.8955 | .6653 | .0539 | 2.3543 | -.7278 | -.1116 | 1.5000 |
| 39 | 20.2077 | 2.4952 | -.5292 | -.0738 | 2.0066 | .7734 | .0858 | 2.5132 | -.6030 | -.0797 | 1.5000 |
| 40 | 21.6527 | 2.6542 | -.4273 | -.0446 | 2.1277 | .8732 | .1163 | 2.6689 | -.4900 | -.0491 | 1.5000 |
| 41 | .0491 | .7001 | -1.3383 | -.3576 | .6988 | .0796 | -.1956 | .7001 | -1.3871 | -.3611 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 3

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 42 | .170 | 2054 | .03 | .13 | 101345 | .5846 | -.8282 | -.2590 | -.0022 | -.0017 | .0038 |
| 43 | .170 | 2061 | -1.83 | .13 | 101342 | .4459 | -.8248 | -.2892 | -.0024 | -.0021 | -.0020 |
| 44 | .171 | 2064 | .04 | .13 | 101346 | .5950 | -.8328 | -.2575 | -.0026 | -.0019 | .0021 |
| 45 | .170 | 2058 | 1.83 | .13 | 101345 | .7300 | -.8436 | -.2287 | -.0023 | -.0018 | .0041 |
| 46 | .170 | 2044 | 3.86 | .13 | 101359 | .8770 | -.8663 | -.2004 | -.0023 | -.0017 | .0066 |
| 47 | .170 | 2054 | 5.87 | .13 | 101349 | 1.0250 | -.8815 | -.1658 | -.0025 | -.0038 | .0104 |
| 48 | .170 | 2041 | 7.92 | .13 | 101362 | 1.1809 | -.8989 | -.1360 | -.0021 | -.0018 | .0069 |
| 49 | .171 | 2074 | 9.96 | .13 | 101339 | 1.3142 | -.8983 | -.1080 | -.0019 | -.0015 | .0086 |
| 50 | .171 | 2081 | 12.07 | .13 | 101322 | 1.4584 | -.8861 | -.0773 | -.0013 | -.0012 | .0071 |
| 51 | .171 | 2081 | 14.07 | .13 | 101322 | 1.5926 | -.8868 | -.0413 | -.0013 | -.0011 | .0076 |
| 52 | .169 | 2038 | 16.20 | .13 | 101366 | 1.7706 | -.8947 | -.0430 | -.0032 | -.0013 | .0079 |
| 53 | .171 | 2071 | 18.20 | .13 | 101332 | 1.9329 | -.8886 | -.0204 | -.0021 | -.0014 | .0074 |
| 54 | .171 | 2084 | 20.19 | .13 | 101319 | 2.0923 | -.8823 | .0154 | -.0013 | -.0013 | .0077 |
| 55 | .171 | 2068 | 21.66 | .13 | 101346 | 2.2111 | -.9035 | .0402 | -.0007 | -.0006 | .0090 |
| 56 | .172 | 2087 | .04 | .13 | 101326 | .5976 | -.8623 | -.2665 | -.0020 | -.0022 | -.0026 |

TEST 995 RUN 3

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 42 | .0295 | 20.2936 | 1.8913 | 16.0000 | .9316 | .9528 | 0.0000 | -.8425 | .0158 |
| 43 | -1.8341 | 20.3311 | 1.8975 | 16.0000 | .9328 | .9540 | 0.0000 | -.8452 | .0158 |
| 44 | .0352 | 20.3936 | 1.9022 | 16.0000 | .9365 | .9578 | 0.0000 | -.8487 | .0156 |
| 45 | 1.8260 | 20.4524 | 1.9122 | 16.0000 | .9457 | .9672 | 0.0000 | -.8605 | .0156 |
| 46 | 3.8572 | 20.5025 | 1.9140 | 16.0000 | .9546 | .9762 | 0.0000 | -.8671 | .0155 |
| 47 | 5.8740 | 20.5395 | 1.9218 | 16.0000 | .9545 | .9762 | 0.0000 | -.8660 | .0153 |
| 48 | 7.9212 | 20.5832 | 1.9232 | 16.0000 | .9638 | .9849 | 0.0000 | -.8700 | .0154 |
| 49 | 9.9622 | 20.6146 | 1.9262 | 16.0000 | .9588 | .9724 | 0.0000 | -.8541 | .0156 |
| 50 | 12.0655 | 20.6407 | 1.9294 | 16.0000 | .9496 | .9711 | 0.0000 | -.8480 | .0161 |
| 51 | 14.0670 | 20.6939 | 1.9334 | 16.0000 | .9543 | .9760 | 0.0000 | -.8448 | .0171 |
| 52 | 16.1955 | 20.6372 | 1.9278 | 16.0000 | .9697 | .9917 | 0.0000 | -.8492 | .0180 |
| 53 | 18.2038 | 20.6673 | 1.9284 | 16.0000 | .9546 | .9763 | 0.0000 | -.8269 | .0187 |
| 54 | 20.1914 | 20.7061 | 1.9279 | 16.0000 | .9498 | .9714 | 0.0000 | -.8113 | .0199 |
| 55 | 21.6578 | 20.7961 | 1.9386 | 16.0000 | .9649 | .9868 | 0.0000 | -.8193 | .0204 |
| 56 | .0424 | 20.9241 | 1.9511 | 16.0000 | .9672 | .9891 | 0.0000 | -.8846 | .0156 |

TEST 995 RUN 3

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 42 | .0295 | .5851 | -.8279 | -.2598 | .5846 | .0880 | -.1539 | .5852 | -1.0854 | -.2862 | 1.2000 |
| 43 | -1.8341 | .4193 | -.8386 | -.2892 | .4492 | .0778 | -.1848 | .4116 | -1.0949 | -.3163 | 1.2000 |
| 44 | .0352 | .5955 | -.8316 | -.2575 | .5949 | .0893 | -.1518 | .5957 | -1.0841 | -.2842 | 1.2000 |
| 45 | 1.8260 | .7565 | -.8199 | -.2287 | .7263 | .1097 | -.1220 | .7637 | -1.0630 | -.2544 | 1.2000 |
| 46 | 3.8572 | .9333 | -.8053 | -.2004 | .8691 | .1316 | -.0927 | .9480 | -1.0391 | -.2251 | 1.2000 |
| 47 | 5.8740 | 1.1098 | -.7728 | -.1658 | 1.0122 | .1622 | -.0582 | 1.1322 | -1.0050 | -.1905 | 1.2000 |
| 48 | 7.9212 | 1.2935 | -.7276 | -.1360 | 1.1608 | .2109 | -.0273 | 1.3225 | -.9513 | -.1547 | 1.2000 |
| 49 | 9.9622 | 1.4484 | -.6495 | -.1088 | 1.2840 | .2714 | -.0007 | 1.4869 | -.8843 | -.1331 | 1.2000 |
| 50 | 12.0655 | 1.6118 | -.5637 | -.0773 | 1.4133 | .3488 | .0299 | 1.6586 | -.7986 | -.1025 | 1.2000 |
| 51 | 14.0670 | 1.7604 | -.4731 | -.0413 | 1.5285 | .4354 | .0664 | 1.8137 | -.7027 | -.0660 | 1.2000 |
| 52 | 16.1955 | 1.9499 | -.3653 | -.0430 | 1.6794 | .5479 | .0664 | 2.0867 | -.5789 | -.0660 | 1.2000 |
| 53 | 18.2038 | 2.1112 | -.2327 | -.0204 | 1.8130 | .6554 | .0873 | 2.1796 | -.4592 | -.0450 | 1.2000 |
| 54 | 20.1914 | 2.2682 | -.1059 | .0154 | 1.9484 | .7656 | .1225 | 2.3454 | -.3356 | -.0098 | 1.2000 |
| 55 | 21.6578 | 2.3884 | -.0237 | .0402 | 2.0323 | .8527 | .1491 | 2.4654 | -.2378 | .0167 | 1.2000 |
| 56 | .0424 | .5983 | -.8619 | -.2665 | .5976 | .0897 | -.1574 | .5984 | -1.0837 | -.2898 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 4

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 57 | .172 | 2110 | .01 | .13 | 101346 | .2700 | .0334 | -.0694 | -.0017 | -.0010 | -.0018 |
| 58 | .170 | 2051 | -1.85 | .13 | 101356 | .1468 | .0406 | -.1045 | -.0017 | -.0013 | -.0044 |
| 59 | .172 | 2104 | .02 | .13 | 101302 | .2817 | .0366 | -.0694 | -.0017 | -.0010 | -.0037 |
| 60 | .171 | 2074 | 1.85 | .13 | 101346 | .4114 | .0323 | -.0363 | -.0017 | -.0009 | -.0027 |
| 61 | .170 | 2061 | 3.89 | .13 | 101349 | .5500 | .0209 | -.0035 | -.0015 | -.0007 | .0005 |
| 62 | .169 | 2031 | 5.76 | .13 | 101379 | .6688 | .0094 | .0357 | -.0010 | -.0016 | .0012 |
| 63 | .170 | 2058 | 7.84 | .13 | 101352 | .8049 | .0026 | .0775 | -.0014 | -.0008 | .0003 |
| 64 | .171 | 2071 | 9.96 | .13 | 101339 | .9134 | -.0112 | .1177 | -.0015 | -.0006 | .0046 |
| 65 | .170 | 2051 | 12.10 | .13 | 101359 | 1.0225 | -.0142 | .1614 | -.0016 | -.0003 | .0033 |
| 66 | .171 | 2081 | 14.14 | .13 | 101346 | 1.1177 | -.0125 | .2098 | -.0009 | -.0002 | .0038 |
| 67 | .170 | 2048 | 16.12 | .13 | 101362 | 1.2466 | .0006 | .2396 | -.0000 | -.0005 | .0015 |
| 68 | .169 | 2035 | 18.16 | .13 | 101376 | 1.3969 | .0200 | .2465 | -.0012 | -.0006 | .0038 |
| 69 | .171 | 2064 | 20.16 | .13 | 101346 | 1.5540 | .0152 | .2864 | -.0005 | -.0004 | -.0003 |
| 70 | .170 | 2041 | 21.44 | .13 | 101369 | 1.6484 | .0105 | .3147 | .0001 | .0000 | .0053 |
| 71 | .170 | 2054 | .02 | .13 | 101356 | .2785 | .0463 | -.0695 | -.0014 | -.0005 | -.0038 |

TEST 995 RUN 4

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 57 | .0127 | 0.0000 | .9737 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0242 | .0075 |
| 58 | -1.8494 | 0.0000 | .9740 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0246 | .0076 |
| 59 | .0205 | 0.0000 | .9734 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0245 | .0075 |
| 60 | 1.8528 | 0.0000 | .9732 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0251 | .0075 |
| 61 | 3.8925 | 0.0000 | .9741 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0243 | .0074 |
| 62 | 5.7592 | 0.0000 | .9742 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0246 | .0072 |
| 63 | 7.8366 | 0.0000 | .9736 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0247 | .0070 |
| 64 | 9.9558 | 0.0000 | .9737 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0243 | .0071 |
| 65 | 12.0982 | 0.0000 | .9738 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0243 | .0073 |
| 66 | 14.1417 | 0.0000 | .9721 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0253 | .0073 |
| 67 | 16.1233 | 0.0000 | .9686 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0286 | .0077 |
| 68 | 18.1566 | 0.0000 | .9623 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0342 | .0094 |
| 69 | 20.1557 | 0.0000 | .9610 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0344 | .0096 |
| 70 | 21.4442 | 0.0000 | .9613 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0343 | .0097 |
| 71 | .0151 | 0.0000 | .9745 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0075 |

TEST 995 RUN 4

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 57 | .0127 | .2700 | .0335 | -.0694 | .2700 | .0017 | -.0694 | .2700 | .0260 | -.0694 | 1.0000 |
| 58 | -1.8494 | .1480 | .0358 | -.1045 | .1480 | .0036 | -.1045 | .1480 | .0282 | -.1045 | 1.0000 |
| 59 | .0205 | .2817 | .0367 | -.0694 | .2817 | .0047 | -.0694 | .2817 | .0293 | -.0694 | 1.0000 |
| 60 | 1.8528 | .4101 | .0456 | -.0363 | .4101 | .0131 | -.0363 | .4101 | .0381 | -.0363 | 1.0000 |
| 61 | 3.8925 | .5473 | .0582 | -.0035 | .5473 | .0265 | -.0035 | .5473 | .0508 | -.0035 | 1.0000 |
| 62 | 5.7592 | .6645 | .0765 | .0357 | .6645 | .0447 | .0357 | .6645 | .0693 | .0357 | 1.0000 |
| 63 | 7.8366 | .7971 | .1123 | .0775 | .7971 | .0806 | .0775 | .7971 | .1053 | .0775 | 1.0000 |
| 64 | 9.9558 | .9015 | .1469 | .1177 | .9015 | .1154 | .1177 | .9015 | .1397 | .1177 | 1.0000 |
| 65 | 12.0982 | 1.0027 | .2004 | .1614 | 1.0027 | .1668 | .1614 | 1.0027 | .1931 | .1614 | 1.0000 |
| 66 | 14.1417 | 1.0869 | .2610 | .2098 | 1.0869 | .2284 | .2098 | 1.0869 | .2536 | .2098 | 1.0000 |
| 67 | 16.1233 | 1.1974 | .3467 | .2396 | 1.1974 | .3104 | .2396 | 1.1974 | .3390 | .2396 | 1.0000 |
| 68 | 18.1566 | 1.3211 | .4543 | .2465 | 1.3211 | .4108 | .2465 | 1.3211 | .4450 | .2465 | 1.0000 |
| 69 | 20.1557 | 1.4536 | .5498 | .2864 | 1.4536 | .5057 | .2864 | 1.4536 | .5401 | .2864 | 1.0000 |
| 70 | 21.4442 | 1.5305 | .6125 | .3147 | 1.5305 | .5684 | .3147 | 1.5305 | .6027 | .3147 | 1.0000 |
| 71 | .0151 | .2785 | .0464 | -.0695 | .2785 | .0148 | -.0695 | .2785 | .0389 | -.0695 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 7

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 95 | .169 | 1985 | .01 | -.00 | 98862 | .1748 | .8481 | -.0261 | .0575 | .0206 | 1.7923 |
| 96 | .166 | 1902 | -1.85 | -.00 | 98885 | .0467 | .8558 | -.0595 | .0589 | .0212 | 1.8672 |
| 97 | .165 | 1886 | .01 | -.00 | 98899 | .1804 | .0525 | -.0258 | .0604 | .0217 | 1.8829 |
| 98 | .165 | 1892 | 1.95 | -.00 | 98888 | .3889 | .0467 | .0078 | .0595 | .0217 | 1.8793 |
| 99 | .164 | 1869 | 3.89 | -.00 | 98915 | .4436 | .0378 | .0439 | .0590 | .0218 | 1.9032 |
| 100 | .165 | 1876 | 5.88 | -.00 | 98902 | .5857 | .0250 | .0795 | .0588 | .0209 | 1.9048 |
| 101 | .164 | 1872 | 7.93 | -.00 | 98905 | .7164 | .0128 | .1174 | .0592 | .0214 | 1.8991 |
| 102 | .165 | 1886 | 10.01 | -.00 | 98892 | .8402 | .0068 | .1574 | .0590 | .0208 | 1.8944 |
| 103 | .164 | 1866 | 12.05 | -.00 | 98912 | .9548 | .0044 | .1984 | .0601 | .0225 | 1.9104 |
| 104 | .164 | 1872 | 14.13 | -.00 | 98905 | 1.0612 | .0027 | .2483 | .0603 | .0221 | 1.8981 |
| 105 | .164 | 1859 | 16.13 | -.00 | 98915 | 1.1743 | .0101 | .2882 | .0618 | .0224 | 1.9110 |
| 106 | .162 | 1816 | 18.14 | -.00 | 98959 | 1.3173 | .0299 | .2932 | .0611 | .0224 | 1.9586 |
| 107 | .161 | 1793 | 20.14 | -.00 | 99002 | 1.4539 | .0264 | .3305 | .0629 | .0233 | 1.9825 |
| 108 | .159 | 1753 | 21.47 | -.00 | 99032 | 1.5652 | .0218 | .3641 | .0659 | .0245 | 2.0292 |
| 109 | .169 | 1981 | .05 | -.00 | 98805 | .1773 | .0583 | -.0260 | .0574 | .0205 | 1.7941 |

TEST 995 RUN 7

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 95 | .0098 | 0.0000 | .9788 | 3.6172 | 0.0000 | 0.0000 | 0.0000 | .0202 | .0074 |
| 96 | -1.8548 | 0.0000 | .9797 | 3.6185 | 0.0000 | 0.0000 | 0.0000 | .0203 | .0074 |
| 97 | .0074 | 0.0000 | .9804 | 3.6196 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0074 |
| 98 | 1.9523 | 0.0000 | .9799 | 3.6188 | 0.0000 | 0.0000 | 0.0000 | .0201 | .0074 |
| 99 | 3.8934 | 0.0000 | .9807 | 3.6201 | 0.0000 | 0.0000 | 0.0000 | .0195 | .0074 |
| 100 | 5.8848 | 0.0000 | .9804 | 3.6196 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0073 |
| 101 | 7.9327 | 0.0000 | .9805 | 3.6198 | 0.0000 | 0.0000 | 0.0000 | .0196 | .0072 |
| 102 | 10.0056 | 0.0000 | .9807 | 3.6201 | 0.0000 | 0.0000 | 0.0000 | .0191 | .0073 |
| 103 | 12.0490 | 0.0000 | .9804 | 3.6196 | 0.0000 | 0.0000 | 0.0000 | .0195 | .0077 |
| 104 | 14.1267 | 0.0000 | .9794 | 3.6181 | 0.0000 | 0.0000 | 0.0000 | .0202 | .0077 |
| 105 | 16.1313 | 0.0000 | .9777 | 3.6154 | 0.0000 | 0.0000 | 0.0000 | .0219 | .0077 |
| 106 | 18.1407 | 0.0000 | .9707 | 3.6047 | 0.0000 | 0.0000 | 0.0000 | .0290 | .0088 |
| 107 | 20.1440 | 0.0000 | .9710 | 3.6050 | 0.0000 | 0.0000 | 0.0000 | .0288 | .0092 |
| 108 | 21.4667 | 0.0000 | .9705 | 3.6043 | 0.0000 | 0.0000 | 0.0000 | .0297 | .0093 |
| 109 | .0517 | 0.0000 | .9800 | 3.6203 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0074 |

TEST 995 RUN 7

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 95 | .0098 | .1748 | .0481 | -.0261 | .1748 | .0205 | -.0261 | .1748 | .0407 | -.0261 | 1.0000 |
| 96 | -1.8548 | .0485 | .0543 | -.0595 | .0485 | .0267 | -.0595 | .0485 | .0469 | -.0595 | 1.0000 |
| 97 | .0074 | .1804 | .0525 | -.0258 | .1804 | .0254 | -.0258 | .1804 | .0451 | -.0258 | 1.0000 |
| 98 | 1.9523 | .3072 | .0572 | .0078 | .3072 | .0297 | .0078 | .3072 | .0498 | .0078 | 1.0000 |
| 99 | 3.8934 | .4480 | .0678 | .0439 | .4480 | .0418 | .0439 | .4408 | .0605 | .0439 | 1.0000 |
| 100 | 5.8848 | .5801 | .0850 | .0795 | .5801 | .0579 | .0795 | .5801 | .0776 | .0795 | 1.0000 |
| 101 | 7.9327 | .7078 | .1116 | .1174 | .7078 | .0848 | .1174 | .7078 | .1044 | .1174 | 1.0000 |
| 102 | 10.0056 | .8263 | .1527 | .1574 | .8263 | .1264 | .1574 | .8263 | .1454 | .1574 | 1.0000 |
| 103 | 12.0490 | .9329 | .2036 | .1984 | .9329 | .1764 | .1984 | .9329 | .1959 | .1984 | 1.0000 |
| 104 | 14.1267 | 1.0285 | .2616 | .2483 | 1.0285 | .2338 | .2483 | 1.0285 | .2539 | .2483 | 1.0000 |
| 105 | 16.1313 | 1.1253 | .3360 | .2882 | 1.1253 | .3064 | .2882 | 1.1253 | .3283 | .2882 | 1.0000 |
| 106 | 18.1407 | 1.2425 | .4386 | .2932 | 1.2425 | .4008 | .2932 | 1.2425 | .4298 | .2932 | 1.0000 |
| 107 | 20.1440 | 1.3559 | .5255 | .3305 | 1.3559 | .4875 | .3305 | 1.3559 | .5163 | .3305 | 1.0000 |
| 108 | 21.4667 | 1.4486 | .5931 | .3641 | 1.4486 | .5541 | .3641 | 1.4486 | .5838 | .3641 | 1.0000 |
| 109 | .0517 | .1772 | .0585 | -.0260 | .1772 | .0327 | -.0260 | .1772 | .0511 | -.0260 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 8

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | .167 | 1929 | .01 | -.00 | 98885 | .1848 | .0567 | -.0233 | .0595 | .0213 | 1.8444 |
| 111 | .165 | 1886 | .04 | -.00 | 98959 | .2663 | -.9623 | -.1058 | .0592 | .0209 | 1.8932 |
| 112 | .165 | 1886 | -1.86 | -.00 | 98963 | .1199 | -.9634 | -.1383 | .0578 | .0202 | 1.8879 |
| 113 | .165 | 1889 | .03 | -.00 | 98959 | .2780 | -.9693 | -.1043 | .0593 | .0206 | 1.8839 |
| 114 | .165 | 1892 | 1.97 | -.00 | 98960 | .4015 | -.9537 | -.0749 | .0581 | .0206 | 1.8834 |
| 115 | .165 | 1886 | 3.89 | -.00 | 98966 | .5469 | -.9507 | -.0409 | .0573 | .0209 | 1.8894 |
| 116 | .164 | 1872 | 5.86 | -.00 | 98986 | .6957 | -.9517 | -.0088 | .0569 | .0215 | 1.9009 |
| 117 | .165 | 1882 | 7.90 | -.00 | 98976 | .8392 | -.9608 | .0285 | .0576 | .0211 | 1.8920 |
| 118 | .165 | 1892 | 9.98 | -.00 | 98966 | .9950 | -.9616 | .0611 | .0571 | .0208 | 1.8825 |
| 119 | .164 | 1859 | 12.08 | -.00 | 99003 | 1.1298 | -.9854 | .0887 | .0598 | .0213 | 1.9072 |
| 120 | .162 | 1829 | 14.18 | -.00 | 99030 | 1.2692 | -1.0088 | .1223 | .0622 | .0214 | 1.9478 |
| 121 | .164 | 1866 | 16.14 | -.00 | 98996 | 1.4064 | -.9919 | .1479 | .0604 | .0206 | 1.9107 |
| 122 | .164 | 1863 | 18.15 | -.00 | 98996 | 1.6099 | -.9923 | .1445 | .0602 | .0203 | 1.9112 |
| 123 | .166 | 1912 | 20.16 | -.00 | 98958 | 1.7798 | -.9708 | .1769 | .0591 | .0207 | 1.8666 |
| 124 | .165 | 1882 | 21.47 | -.00 | 98976 | 1.8947 | -.9964 | .1976 | .0604 | .0214 | 1.8981 |
| 125 | .166 | 1912 | .03 | -.00 | 98953 | .2638 | -.9436 | -.1053 | .0586 | .0201 | 1.8621 |

TEST 995 RUN 8

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 110 | .0127 | 0.0000 | .9821 | 3.6223 | 0.0000 | 0.0000 | 0.0000 | .0176 | .0118 |
| 111 | .0383 | 20.6218 | 1.9771 | 5.1645 | 1.0649 | 1.0891 | 0.0000 | -.9826 | .0172 |
| 112 | -1.8586 | 20.6499 | 1.9810 | 5.1706 | 1.0676 | 1.0919 | 0.0000 | -.9861 | .0174 |
| 113 | .0253 | 20.6604 | 1.9848 | 5.1765 | 1.0689 | 1.0932 | 0.0000 | -.9886 | .0176 |
| 114 | 1.9672 | 20.5045 | 1.9633 | 5.1432 | 1.0523 | 1.0762 | 0.0000 | -.9648 | .0180 |
| 115 | 3.8920 | 20.4099 | 1.9509 | 5.1240 | 1.0449 | 1.0686 | 0.0000 | -.9541 | .0182 |
| 116 | 5.8571 | 20.2267 | 1.9307 | 5.0926 | 1.0347 | 1.0582 | 0.0000 | -.9379 | .0184 |
| 117 | 7.9033 | 20.2528 | 1.9347 | 5.0987 | 1.0323 | 1.0557 | 0.0000 | -.9328 | .0184 |
| 118 | 9.9773 | 20.2760 | 1.9338 | 5.0973 | 1.0267 | 1.0500 | 0.0000 | -.9216 | .0185 |
| 119 | 12.0838 | 20.3189 | 1.9393 | 5.1059 | 1.0508 | 1.0747 | 0.0000 | -.9371 | .0189 |
| 120 | 14.1810 | 20.3843 | 1.9496 | 5.1219 | 1.0760 | 1.1005 | 0.0000 | -.9549 | .0192 |
| 121 | 16.1431 | 20.4324 | 1.9510 | 5.1241 | 1.0585 | 1.0825 | 0.0000 | -.9287 | .0189 |
| 122 | 18.1507 | 20.4487 | 1.9533 | 5.1276 | 1.0619 | 1.0860 | 0.0000 | -.9226 | .0189 |
| 123 | 20.1555 | 20.3968 | 1.9537 | 5.1282 | 1.0319 | 1.0553 | 0.0000 | -.8878 | .0184 |
| 124 | 21.4728 | 20.5120 | 1.9630 | 5.1427 | 1.0589 | 1.0829 | 0.0000 | -.9029 | .0187 |
| 125 | .0313 | 20.6547 | 1.9751 | 5.1614 | 1.0549 | 1.0789 | 0.0000 | -.9670 | .0206 |

TEST 995 RUN 8

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | .0127 | .1848 | .0568 | -.0233 | .1848 | .0274 | -.0233 | .1848 | .0450 | -.0233 | 1.0000 |
| 111 | .0383 | .2669 | -.9621 | -.1058 | .2662 | .0856 | .0143 | .2670 | -1.0877 | -.1180 | 1.2000 |
| 112 | -1.8586 | .0886 | -.9667 | -.1383 | .1232 | .0830 | -.0179 | .0851 | -1.0898 | -.1503 | 1.2000 |
| 113 | .0253 | .2784 | -.9692 | -.1043 | .2779 | .0822 | .0163 | .2785 | -1.0912 | -.1161 | 1.2000 |
| 114 | 1.9672 | .4340 | -.9394 | -.0749 | .3979 | .0943 | .0438 | .4381 | -1.0783 | -.0885 | 1.2000 |
| 115 | 3.8920 | .6102 | -.9113 | -.0409 | .5392 | .1130 | .0770 | .6189 | -1.0577 | -.0554 | 1.2000 |
| 116 | 5.8571 | .7892 | -.8758 | -.0088 | .6836 | .1351 | .1079 | .8033 | -1.0321 | -.0244 | 1.2000 |
| 117 | 7.9033 | .9634 | -.8363 | .0285 | .8214 | .1678 | .1450 | .9828 | -.9944 | .0126 | 1.2000 |
| 118 | 9.9773 | 1.1465 | -.7747 | .0611 | .9686 | .2180 | .1769 | 1.1719 | -.9376 | .0446 | 1.2000 |
| 119 | 12.0838 | 1.3110 | -.7271 | .0887 | 1.0911 | .2815 | .2073 | 1.3367 | -.8658 | .0749 | 1.2000 |
| 120 | 14.1810 | 1.4777 | -.6671 | .1223 | 1.2140 | .3569 | .2437 | 1.5015 | -.7807 | .1114 | 1.2000 |
| 121 | 16.1431 | 1.6267 | -.5617 | .1479 | 1.3325 | .4361 | .2673 | 1.6587 | -.6910 | .1349 | 1.2000 |
| 122 | 18.1507 | 1.8389 | -.4414 | .1445 | 1.5081 | .5487 | .2643 | 1.8737 | -.5662 | .1319 | 1.2000 |
| 123 | 20.1555 | 2.0053 | -.2981 | .1769 | 1.6497 | .6523 | .2933 | 2.0540 | -.4492 | .1609 | 1.2000 |
| 124 | 21.4728 | 2.1279 | -.2337 | .1976 | 1.7403 | .7330 | .3170 | 2.1698 | -.3589 | .1847 | 1.2000 |
| 125 | .0313 | .2643 | -.9435 | -.1053 | .2637 | .0908 | .0137 | .2643 | -1.0825 | -.1186 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 9

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 126 | .168 | 1948 | .02 | -.00 | 98920 | .2923 | -1.4592 | -.1518 | .0573 | .0192 | 1.8281 |
| 127 | .167 | 1932 | -1.82 | -.00 | 98936 | .1553 | -1.4953 | -.1892 | .0570 | .0189 | 1.8479 |
| 128 | .165 | 1886 | .06 | -.00 | 98983 | .3138 | -1.5431 | -.1627 | .0598 | .0198 | 1.8928 |
| 129 | .165 | 1889 | 1.96 | -.00 | 98980 | .4508 | -1.5489 | -.1348 | .0580 | .0190 | 1.8827 |
| 130 | .165 | 1876 | 3.91 | -.00 | 98990 | .6046 | -1.5753 | -.1057 | .0578 | .0199 | 1.9015 |
| 131 | .165 | 1896 | 5.88 | -.00 | 98973 | .7438 | -1.5718 | -.0724 | .0562 | .0191 | 1.8856 |
| 132 | .167 | 1942 | 7.93 | -.00 | 98960 | .8814 | -1.5571 | -.0367 | .0563 | .0190 | 1.8396 |
| 133 | .164 | 1872 | 9.99 | -.00 | 98997 | 1.0558 | -1.6234 | -.0156 | .0586 | .0202 | 1.9080 |
| 134 | .166 | 1899 | 12.09 | -.00 | 98966 | 1.1918 | -1.6078 | .0139 | .0586 | .0201 | 1.8816 |
| 135 | .165 | 1876 | 14.18 | -.00 | 98997 | 1.3302 | -1.6327 | .0461 | .0610 | .0207 | 1.9011 |
| 136 | .166 | 1899 | 16.16 | -.00 | 98966 | 1.4815 | -1.6151 | .0667 | .0602 | .0204 | 1.8799 |
| 137 | .165 | 1889 | 18.18 | -.00 | 98980 | 1.6694 | -1.6251 | .0622 | .0607 | .0202 | 1.8914 |
| 138 | .166 | 1899 | 20.18 | -.00 | 98980 | 1.8490 | -1.6259 | .0855 | .0603 | .0204 | 1.8817 |
| 139 | .167 | 1922 | 21.58 | -.00 | 98950 | 1.9828 | -1.6277 | .1022 | .0595 | .0207 | 1.8602 |
| 140 | .166 | 1902 | .03 | -.00 | 98978 | .3323 | -1.6112 | -.1884 | .0584 | .0199 | 1.8756 |

TEST 995 RUN 9

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 126 | .0228 | 26.6429 | 2.5616 | 6.0705 | 1.5439 | 1.5790 | 0.0000 | -1.5192 | .0215 |
| 127 | -1.8195 | 26.9851 | 2.5857 | 6.1079 | 1.5852 | 1.6212 | 0.0000 | -1.5553 | .0226 |
| 128 | .8685 | 27.8685 | 2.5931 | 6.1194 | 1.6318 | 1.6681 | 0.0000 | -1.6024 | .0234 |
| 129 | 1.9593 | 27.1089 | 2.6824 | 6.1337 | 1.6336 | 1.6787 | 0.0000 | -1.6079 | .0236 |
| 130 | 3.9147 | 27.1944 | 2.6874 | 6.1415 | 1.6523 | 1.6898 | 0.0000 | -1.6217 | .0239 |
| 131 | 5.8825 | 27.2645 | 2.6103 | 6.1459 | 1.6482 | 1.6775 | 0.0000 | -1.6026 | .0237 |
| 132 | 7.9335 | 27.3188 | 2.6162 | 6.1551 | 1.6849 | 1.6413 | 0.0000 | -1.5632 | .0232 |
| 133 | 9.9927 | 27.3464 | 2.6164 | 6.1554 | 1.6660 | 1.7039 | 0.0000 | -1.6126 | .0240 |
| 134 | 12.0918 | 27.4011 | 2.6234 | 6.1663 | 1.6482 | 1.6857 | 0.0000 | -1.5853 | .0236 |
| 135 | 14.1835 | 27.4537 | 2.6326 | 6.1806 | 1.6746 | 1.7126 | 0.0000 | -1.6007 | .0239 |
| 136 | 16.1647 | 27.5139 | 2.6355 | 6.1858 | 1.6586 | 1.6963 | 0.0000 | -1.5687 | .0235 |
| 137 | 18.1794 | 27.5531 | 2.6414 | 6.1941 | 1.6786 | 1.7086 | 0.0000 | -1.5658 | .0235 |
| 138 | 20.1767 | 27.6168 | 2.6477 | 6.2039 | 1.6668 | 1.7067 | 0.0000 | -1.5447 | .0233 |
| 139 | 21.5028 | 27.7884 | 2.6598 | 6.2228 | 1.6689 | 1.6987 | 0.0000 | -1.5235 | .0229 |
| 140 | .0285 | 28.0107 | 2.6812 | 6.2559 | 1.6981 | 1.7367 | 0.0000 | -1.6761 | .0268 |

TEST 995 RUN 9

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 126 | .0228 | .2929 | -1.4591 | -.1518 | .2923 | .0633 | .0224 | .2929 | -1.4034 | -.1431 | 1.5000 |
| 127 | -1.8195 | .1877 | -1.4995 | -.1892 | .1581 | .0624 | -.0184 | .1115 | -1.4036 | -.1758 | 1.5000 |
| 128 | .8685 | .3155 | -1.5427 | -.1627 | .3137 | .0649 | .0213 | .3153 | -1.4018 | -.1441 | 1.5000 |
| 129 | 1.9593 | .5035 | -1.5326 | -.1348 | .4476 | .0764 | .0495 | .4978 | -1.3894 | -.1160 | 1.5000 |
| 130 | 3.9147 | .7107 | -1.5303 | -.1057 | .5979 | .0942 | .0887 | .6980 | -1.3691 | -.0847 | 1.5000 |
| 131 | 5.8825 | .9010 | -1.4873 | -.0724 | .7329 | .1206 | .1126 | .8832 | -1.3384 | -.0529 | 1.5000 |
| 132 | 7.9335 | 1.0879 | -1.4205 | -.0367 | .8664 | .1458 | .1443 | 1.0688 | -1.3068 | -.0211 | 1.5000 |
| 133 | 9.9927 | 1.3215 | -1.4156 | -.0156 | 1.0324 | .2012 | .1723 | 1.2869 | -1.2433 | .0069 | 1.5000 |
| 134 | 12.0918 | 1.5022 | -1.3225 | .0139 | 1.1569 | .2656 | .1999 | 1.4642 | -1.1685 | .0344 | 1.5000 |
| 135 | 14.1835 | 1.6898 | -1.2570 | .0461 | 1.2794 | .3427 | .2350 | 1.6388 | -1.0793 | .0695 | 1.5000 |
| 136 | 16.1647 | 1.8725 | -1.1388 | .0667 | 1.4108 | .4387 | .2538 | 1.8191 | -.9780 | .0884 | 1.5000 |
| 137 | 18.1794 | 2.0938 | -1.0231 | .0622 | 1.5718 | .5486 | .2587 | 2.0294 | -.8529 | .0852 | 1.5000 |
| 138 | 20.1767 | 2.2963 | -.8884 | .0855 | 1.7287 | .6547 | .2738 | 2.2266 | -.7219 | .1083 | 1.5000 |
| 139 | 21.5028 | 2.4414 | -.7877 | .1022 | 1.8326 | .7348 | .2896 | 2.3782 | -.6298 | .1241 | 1.5000 |
| 140 | .0285 | .3331 | -1.6110 | -.1884 | .3323 | .0612 | .0032 | .3330 | -1.4055 | -.1623 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 10

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 141 | .167 | 1932 | .03 | -.00 | 98957 | .3646 | -1.6754 | -.2100 | .0569 | .0195 | 1.8462 |
| 142 | .167 | 1935 | -1.79 | -.00 | 98953 | .2168 | -1.6698 | -.2406 | .0569 | .0191 | 1.8433 |
| 143 | .167 | 1922 | .06 | -.00 | 98963 | .3630 | -1.6808 | -.2093 | .0573 | .0194 | 1.8591 |
| 144 | .165 | 1892 | 1.96 | -.00 | 98993 | .5061 | -1.7114 | -.1820 | .0579 | .0197 | 1.8863 |
| 145 | .165 | 1892 | 3.91 | -.00 | 99000 | .6531 | -1.7211 | -.1492 | .0570 | .0201 | 1.8882 |
| 146 | .164 | 1869 | 5.91 | -.00 | 99024 | .8016 | -1.7551 | -.1175 | .0566 | .0195 | 1.9120 |
| 147 | .166 | 1919 | 7.94 | -.00 | 98970 | .9382 | -1.7214 | -.0769 | .0564 | .0190 | 1.8625 |
| 148 | .166 | 1909 | 9.99 | -.00 | 98987 | 1.0943 | -1.7332 | -.0535 | .0568 | .0200 | 1.8704 |
| 149 | .165 | 1896 | 12.09 | -.00 | 99000 | 1.2313 | -1.7428 | -.0262 | .0583 | .0202 | 1.8821 |
| 150 | .165 | 1896 | 14.18 | -.00 | 99004 | 1.3733 | -1.7475 | .0099 | .0591 | .0210 | 1.8707 |
| 151 | .165 | 1886 | 16.12 | -.00 | 99017 | 1.5264 | -1.7528 | .0291 | .0602 | .0203 | 1.8913 |
| 152 | .167 | 1942 | 18.18 | -.00 | 98957 | 1.7255 | -1.7309 | .0190 | .0586 | .0194 | 1.8384 |
| 153 | .166 | 1902 | 20.16 | -.00 | 99000 | 1.9173 | -1.7766 | .0396 | .0595 | .0202 | 1.8781 |
| 154 | .168 | 1945 | 21.50 | -.00 | 98957 | 2.0377 | -1.7408 | .0624 | .0586 | .0203 | 1.8376 |
| 155 | .166 | 1915 | .03 | -.00 | 98980 | .3696 | -1.7112 | -.2191 | .0576 | .0197 | 1.8621 |
| 156 | .167 | 1929 | .01 | -.00 | 99021 | .1717 | .0618 | -.0248 | .0593 | .0213 | 1.8421 |

TEST 995 RUN 10

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 141 | .0256 | 29.0038 | 2.7728 | 6.3979 | 1.7573 | 1.7973 | 0.0000 | -1.7400 | .0267 |
| 142 | -1.7851 | 28.9684 | 2.7746 | 6.4007 | 1.7534 | 1.7932 | 0.0000 | -1.7379 | .0269 |
| 143 | .0648 | 28.9510 | 2.7706 | 6.3944 | 1.7618 | 1.8019 | 0.0000 | -1.7469 | .0272 |
| 144 | 1.9560 | 28.9586 | 2.7716 | 6.3959 | 1.7916 | 1.8324 | 0.0000 | -1.7748 | .0278 |
| 145 | 3.9081 | 28.9428 | 2.7714 | 6.3957 | 1.7897 | 1.8304 | 0.0000 | -1.7717 | .0278 |
| 146 | 5.9050 | 28.9805 | 2.7702 | 6.3938 | 1.8132 | 1.8545 | 0.0000 | -1.7675 | .0283 |
| 147 | 7.9413 | 28.9292 | 2.7665 | 6.3880 | 1.7631 | 1.8032 | 0.0000 | -1.7292 | .0275 |
| 148 | 9.9893 | 28.9250 | 2.7654 | 6.3864 | 1.7706 | 1.8108 | 0.0000 | -1.7277 | .0277 |
| 149 | 12.0930 | 28.9026 | 2.7675 | 6.3896 | 1.7843 | 1.8249 | 0.0000 | -1.7295 | .0278 |
| 150 | 14.1838 | 28.9089 | 2.7711 | 6.3953 | 1.7840 | 1.8245 | 0.0000 | -1.7185 | .0277 |
| 151 | 16.1236 | 28.9048 | 2.7668 | 6.3886 | 1.7932 | 1.8339 | 0.0000 | -1.7078 | .0277 |
| 152 | 18.1770 | 29.2671 | 2.8053 | 6.4481 | 1.7722 | 1.8124 | 0.0000 | -1.6749 | .0267 |
| 153 | 20.1588 | 29.3124 | 2.8036 | 6.4456 | 1.8098 | 1.8509 | 0.0000 | -1.6885 | .0271 |
| 154 | 21.5016 | 29.2940 | 2.8040 | 6.4462 | 1.7696 | 1.8098 | 0.0000 | -1.6362 | .0264 |
| 155 | .0277 | 29.2319 | 2.7960 | 6.4338 | 1.7922 | 1.8330 | 0.0000 | -1.7784 | .0294 |
| 156 | .0116 | 0.0000 | .9678 | 3.6001 | 0.0000 | 0.0000 | 0.0000 | .0316 | .0295 |

TEST 995 RUN 10

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 141 | .0256 | .3654 | -1.6753 | -.2100 | .3646 | .0554 | -.0118 | .3654 | -1.7046 | -.2103 | 1.8000 |
| 142 | -1.7851 | .1647 | -1.6757 | -.2406 | .2193 | .0499 | -.0427 | .1645 | -1.7092 | -.2413 | 1.8000 |
| 143 | .0648 | .3649 | -1.6804 | -.2093 | .3629 | .0542 | -.0105 | .3649 | -1.7058 | -.2091 | 1.8000 |
| 144 | 1.9560 | .5642 | -1.6931 | -.1820 | .5030 | .0697 | .0201 | .5631 | -1.6893 | -.1785 | 1.8000 |
| 145 | 3.9081 | .7668 | -1.6725 | -.1492 | .6469 | .0852 | .0527 | .7668 | -1.6707 | -.1459 | 1.8000 |
| 146 | 5.9050 | .9779 | -1.6633 | -.1175 | .7914 | .1121 | .0871 | .9725 | -1.6386 | -.1115 | 1.8000 |
| 147 | 7.9413 | 1.1670 | -1.5752 | -.0769 | .9234 | .1435 | .1221 | 1.1666 | -1.5997 | -.0765 | 1.8000 |
| 148 | 9.9893 | 1.3784 | -1.5171 | -.0535 | 1.0712 | .1989 | .1462 | 1.3765 | -1.5344 | -.0523 | 1.8000 |
| 149 | 12.0930 | 1.5691 | -1.4461 | -.0262 | 1.1953 | .2709 | .1751 | 1.5640 | -1.4501 | -.0234 | 1.8000 |
| 150 | 14.1838 | 1.7596 | -1.3577 | .0099 | 1.3225 | .3442 | .2112 | 1.7537 | -1.3622 | .0126 | 1.8000 |
| 151 | 16.1236 | 1.9531 | -1.2600 | .0291 | 1.4551 | .4349 | .2314 | 1.9439 | -1.2558 | .0328 | 1.8000 |
| 152 | 18.1770 | 2.1793 | -1.1063 | .0190 | 1.6265 | .5507 | .2189 | 2.1755 | -1.1215 | .0203 | 1.8000 |
| 153 | 20.1588 | 2.4121 | -1.0070 | .0396 | 1.7884 | .6649 | .2436 | 2.3949 | -.9873 | .0453 | 1.8000 |
| 154 | 21.5016 | 2.5340 | -.8728 | .0624 | 1.8853 | .7472 | .2621 | 2.5304 | -.8903 | .0635 | 1.8000 |
| 155 | .0277 | .3705 | -1.7110 | -.2191 | .3696 | .0518 | -.0169 | .3705 | -1.7082 | -.2154 | 1.8000 |
| 156 | .0116 | .1717 | .0618 | -.0248 | .1717 | .0007 | -.0248 | .1717 | .0324 | -.0248 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 13

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 186 | .166 | 1912 | .01 | -.00 | 98990 | .3180 | .0626 | -.0762 | -.0013 | .0002 | .3054 |
| 187 | .166 | 1912 | -1.84 | -.00 | 99080 | .1797 | .0663 | -.1090 | -.0014 | .0004 | .0040 |
| 188 | .167 | 1938 | .04 | -.00 | 99007 | .3184 | .0647 | -.0734 | -.0009 | .0006 | .0076 |
| 189 | .166 | 1919 | 1.92 | -.00 | 99011 | .4551 | .0606 | -.0424 | -.0016 | .0006 | .0054 |
| 190 | .167 | 1935 | 3.92 | -.00 | 99021 | .5833 | .0495 | -.0082 | -.0008 | .0007 | .0060 |
| 191 | .167 | 1925 | 5.90 | -.00 | 98987 | .7168 | .0359 | .0331 | -.0005 | -.0001 | .0091 |
| 192 | .166 | 1915 | 7.92 | -.00 | 99000 | .8385 | .0254 | .0730 | -.0009 | .0004 | .0058 |
| 193 | .166 | 1902 | 9.99 | -.00 | 99000 | .9514 | .0189 | .1156 | -.0007 | .0005 | .0124 |
| 194 | .165 | 1892 | 12.08 | -.00 | 99014 | 1.0529 | .0155 | .1580 | -.0008 | .0006 | .0097 |
| 195 | .164 | 1872 | 14.15 | -.00 | 99034 | 1.1441 | .0191 | .2050 | -.0003 | .0010 | .0141 |
| 196 | .165 | 1892 | 16.19 | -.00 | 99010 | 1.2786 | .0357 | .2316 | -.0004 | .0001 | .0104 |
| 197 | .166 | 1909 | 18.16 | -.00 | 98987 | 1.4206 | .0532 | .2431 | -.0015 | .0003 | .0094 |
| 198 | .166 | 1909 | 20.12 | -.00 | 99034 | 1.5312 | .0483 | .2765 | -.0003 | .0006 | .0069 |
| 199 | .163 | 1839 | 21.47 | -.00 | 99050 | 1.6625 | .0439 | .3123 | .0007 | .0011 | .0060 |
| 200 | .167 | 1932 | .03 | -.00 | 98950 | .3194 | .0768 | -.0747 | -.0011 | .0005 | .0064 |

TEST 995 RUN 13

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 186 | .0143 | 0.0000 | .9730 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0268 | .0081 |
| 187 | -1.8421 | 0.0000 | .9731 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0267 | .0081 |
| 188 | .0379 | 0.0000 | .9736 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0259 | .0081 |
| 189 | 1.9178 | 0.0000 | .9739 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0258 | .0079 |
| 190 | 3.9184 | 0.0000 | .9738 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0264 | .0077 |
| 191 | 5.8995 | 0.0000 | .9736 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0259 | .0074 |
| 192 | 7.9237 | 0.0000 | .9739 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0256 | .0074 |
| 193 | 9.9902 | 0.0000 | .9745 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0250 | .0072 |
| 194 | 12.0758 | 0.0000 | .9745 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0250 | .0074 |
| 195 | 14.1460 | 0.0000 | .9740 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0256 | .0074 |
| 196 | 16.1910 | 0.0000 | .9686 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0303 | .0082 |
| 197 | 18.1551 | 0.0000 | .9635 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0345 | .0096 |
| 198 | 20.1170 | 0.0000 | .9629 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0346 | .0099 |
| 199 | 21.4699 | 0.0000 | .9628 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0357 | .0100 |
| 200 | .0308 | 0.0000 | .9748 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0248 | .0081 |

TEST 995 RUN 13

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 186 | .0143 | .3180 | .0627 | -.0762 | .3180 | .0278 | -.0762 | .3180 | .0546 | -.0762 | 1.0000 |
| 187 | -1.8421 | .1817 | .0685 | -.1090 | .1817 | .0257 | -.1090 | .1817 | .0523 | -.1090 | 1.0000 |
| 188 | .0379 | .3184 | .0649 | -.0734 | .3184 | .0310 | -.0734 | .3184 | .0569 | -.0734 | 1.0000 |
| 189 | 1.9178 | .4528 | .0758 | -.0424 | .4528 | .0422 | -.0424 | .4528 | .0679 | -.0424 | 1.0000 |
| 190 | 3.9184 | .5786 | .0893 | -.0082 | .5786 | .0551 | -.0082 | .5786 | .0815 | .0082 | 1.0000 |
| 191 | 5.8995 | .7086 | .1093 | .0331 | .7086 | .0759 | .0331 | .7086 | .1018 | .0331 | 1.0000 |
| 192 | 7.9237 | .8270 | .1408 | .0730 | .8270 | .1078 | .0730 | .8270 | .1334 | .0730 | 1.0000 |
| 193 | 9.9902 | .9337 | .1837 | .1156 | .9337 | .1514 | .1156 | .9337 | .1765 | .1156 | 1.0000 |
| 194 | 12.0758 | 1.0264 | .2354 | .1580 | 1.0264 | .2030 | .1580 | 1.0264 | .2280 | .1580 | 1.0000 |
| 195 | 14.1460 | 1.1047 | .2981 | .2050 | 1.1047 | .2650 | .2050 | 1.1047 | .2906 | .2050 | 1.0000 |
| 196 | 16.1910 | 1.2179 | .3908 | .2316 | 1.2179 | .3523 | .2316 | 1.2179 | .3826 | .2316 | 1.0000 |
| 197 | 18.1551 | 1.3333 | .4932 | .2431 | 1.3333 | .4491 | .2431 | 1.3333 | .4835 | .2431 | 1.0000 |
| 198 | 20.1170 | 1.4211 | .5720 | .2765 | 1.4211 | .5275 | .2765 | 1.4211 | .5621 | .2765 | 1.0000 |
| 199 | 21.4699 | 1.5311 | .6493 | .3123 | 1.5311 | .6036 | .3123 | 1.5311 | .6393 | .3123 | 1.0000 |
| 200 | .0308 | .3194 | .0770 | -.0747 | .3194 | .0441 | -.0747 | .3194 | .0689 | -.0747 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 14

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 | .166 | 1909 | .03 | -.00 | 98966 | .3235 | .0765 | -.0739 | -.0014 | .0004 | .0020 |
| 202 | .168 | 1962 | .02 | -.00 | 98950 | .3158 | .0728 | -.0730 | -.0011 | .0006 | .0018 |
| 203 | .166 | 1915 | .05 | -.00 | 98973 | .7915 | -.9005 | -.3517 | -.0011 | -.0015 | .0123 |
| 204 | .166 | 1919 | -1.79 | -.00 | 98970 | .6524 | -.9063 | -.3832 | -.0016 | -.0019 | .0087 |
| 205 | .166 | 1905 | .07 | -.00 | 98983 | .7990 | -.9216 | -.3574 | -.0011 | -.0015 | .0114 |
| 206 | .165 | 1896 | 1.96 | -.00 | 98990 | .9285 | -.9397 | -.3258 | -.0016 | -.0017 | .0114 |
| 207 | .167 | 1922 | 3.86 | -.00 | 98963 | 1.0805 | -.9434 | -.2937 | -.0036 | -.0016 | .0141 |
| 208 | .166 | 1905 | 5.88 | -.00 | 98980 | 1.2324 | -.9698 | -.2608 | -.0004 | -.0029 | .0168 |
| 209 | .164 | 1863 | 7.90 | -.00 | 99024 | 1.3969 | -.9990 | -.2369 | -.0011 | -.0020 | .0153 |
| 210 | .162 | 1826 | 9.96 | -.00 | 99064 | 1.5497 | -1.0248 | -.2201 | -.0005 | -.0015 | .0147 |
| 211 | .161 | 1803 | 12.07 | -.00 | 99094 | 1.6929 | -1.0413 | -.1934 | -.0004 | -.0013 | .0155 |
| 212 | .161 | 1790 | 14.16 | -.00 | 99101 | 1.8239 | -1.0514 | -.1580 | -.0008 | -.0013 | .0128 |
| 213 | .160 | 1773 | 16.15 | -.00 | 99121 | 1.9920 | -1.0534 | -.1639 | -.0021 | -.0014 | .0155 |
| 214 | .159 | 1760 | 18.16 | -.00 | 99137 | 2.1709 | -1.0664 | -.1464 | -.0009 | -.0014 | .0164 |
| 215 | .160 | 1767 | 20.16 | -.00 | 99134 | 2.3166 | -1.0710 | -.1037 | -.0010 | -.0008 | .0158 |
| 216 | .163 | 1853 | 21.48 | -.00 | 99044 | 2.4006 | -1.0287 | -.0567 | .0005 | -.0005 | .0163 |
| 217 | .166 | 1912 | .03 | -.00 | 98983 | .7988 | -.9076 | -.3535 | -.0007 | -.0026 | .0259 |

TEST 995 RUN 14

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 201 | .0309 | 0.0000 | .9745 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0253 | .0110 |
| 202 | .0240 | 0.0000 | .9752 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0239 | .0108 |
| 203 | .0462 | 21.0873 | 1.9955 | 20.4000 | 1.0673 | 1.0916 | 0.0000 | -.9856 | .0119 |
| 204 | -1.7904 | 21.1847 | 2.0051 | 20.4000 | 1.0726 | 1.0970 | 0.0000 | -.9929 | .0120 |
| 205 | .0718 | 21.2692 | 2.0108 | 20.4000 | 1.0865 | 1.1112 | 0.0000 | -1.0061 | .0123 |
| 206 | 1.9612 | 21.2815 | 2.0159 | 20.4000 | 1.0958 | 1.1199 | 0.0000 | -1.0160 | .0125 |
| 207 | 3.8584 | 21.3628 | 2.0224 | 20.4000 | 1.0874 | 1.1121 | 0.0000 | -1.0064 | .0124 |
| 208 | 5.8768 | 21.4234 | 2.0288 | 20.4000 | 1.1013 | 1.1263 | 0.0000 | -1.0186 | .0126 |
| 209 | 7.9024 | 21.4459 | 2.0295 | 20.4000 | 1.1272 | 1.1528 | 0.0000 | -1.0388 | .0129 |
| 210 | 9.9588 | 21.4937 | 2.0322 | 20.4000 | 1.1537 | 1.1800 | 0.0000 | -1.0568 | .0131 |
| 211 | 12.0683 | 21.5095 | 2.0327 | 20.4000 | 1.1694 | 1.1960 | 0.0000 | -1.0635 | .0133 |
| 212 | 14.1641 | 21.5755 | 2.0369 | 20.4000 | 1.1832 | 1.2100 | 0.0000 | -1.0667 | .0133 |
| 213 | 16.1532 | 21.6242 | 2.0415 | 20.4000 | 1.1991 | 1.2263 | 0.0000 | -1.0714 | .0134 |
| 214 | 18.1615 | 21.6613 | 2.0437 | 20.4000 | 1.2111 | 1.2386 | 0.0000 | -1.0703 | .0135 |
| 215 | 20.1631 | 21.7038 | 2.0499 | 20.4000 | 1.2101 | 1.2376 | 0.0000 | -1.0596 | .0135 |
| 216 | 21.4836 | 21.7451 | 2.0547 | 20.4000 | 1.1577 | 1.1840 | 0.0000 | -1.0054 | .0129 |
| 217 | .0304 | 21.1548 | 2.0004 | 20.4000 | 1.0733 | 1.0977 | 0.0000 | -.9924 | .0141 |

TEST 995 RUN 14

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 | .0309 | .3234 | .0766 | -.0739 | .3234 | .0483 | -.0739 | .3234 | .0656 | -.0739 | 1.0000 |
| 202 | .0240 | .3158 | .0738 | -.0730 | .3158 | .0382 | -.0730 | .3158 | .0621 | -.0730 | 1.0000 |
| 203 | .0462 | .7923 | -.8999 | -.3517 | .7914 | .1555 | -.2313 | .7924 | -1.0178 | -.3637 | 1.2000 |
| 204 | -1.7904 | .6238 | -.9262 | -.3832 | .6573 | .1339 | -.2622 | .6286 | -1.0389 | -.3946 | 1.2000 |
| 205 | .0718 | .8002 | -.9206 | -.3574 | .7988 | .1536 | -.2349 | .8003 | -1.0197 | -.3672 | 1.2000 |
| 206 | 1.9612 | .9601 | -.9074 | -.3258 | .9226 | .1745 | -.2023 | .9628 | -.9981 | -.3346 | 1.2000 |
| 207 | 3.8584 | 1.1415 | -.8686 | -.2937 | 1.0683 | .2039 | -.1710 | 1.1473 | -.9667 | -.3034 | 1.2000 |
| 208 | 5.8768 | 1.3252 | -.8385 | -.2608 | 1.2125 | .2444 | -.1366 | 1.3326 | -.9228 | -.2689 | 1.2000 |
| 209 | 7.9024 | 1.5209 | -.7975 | -.2369 | 1.3660 | .3062 | -.1098 | 1.5273 | -.8560 | -.2421 | 1.2000 |
| 210 | 9.9588 | 1.7036 | -.7413 | -.2201 | 1.5040 | .3819 | -.0899 | 1.7070 | -.7738 | -.2223 | 1.2000 |
| 211 | 12.0683 | 1.8732 | -.6644 | -.1934 | 1.6287 | .4668 | -.0614 | 1.8748 | -.6814 | -.1938 | 1.2000 |
| 212 | 14.1641 | 2.0257 | -.5731 | -.1580 | 1.7362 | .5607 | -.0246 | 2.0233 | -.5769 | -.1569 | 1.2000 |
| 213 | 16.1532 | 2.2064 | -.4577 | -.1639 | 1.8729 | .6807 | -.0286 | 2.1993 | -.4463 | -.1610 | 1.2000 |
| 214 | 18.1615 | 2.3951 | -.3366 | -.1464 | 2.0176 | .8007 | -.0097 | 2.3834 | -.3142 | -.1421 | 1.2000 |
| 215 | 20.1631 | 2.5439 | -.2069 | -.1037 | 2.1267 | .9156 | .0328 | 2.5312 | -.1858 | -.0995 | 1.2000 |
| 216 | 21.4836 | 2.6106 | -.0780 | -.0567 | 2.1866 | .9862 | .0739 | 2.6163 | -.1056 | -.0585 | 1.2000 |
| 217 | .0304 | .7993 | -.9072 | -.3535 | .7987 | .1520 | -.2324 | .7993 | -1.0213 | -.3648 | 1.2000 |

NASA LANGLEY 7 X 18 HIGH SPEED TUNNEL

TEST 995 RUN 15

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 218 | .166 | 1902 | .05 | -.00 | 99000 | .9475 | -1.3871 | -.4811 | -.0017 | -.0009 | .0107 |
| 219 | .167 | 1942 | -1.79 | -.00 | 98960 | .7964 | -1.3662 | -.5060 | -.0015 | -.0009 | .0113 |
| 220 | .166 | 1909 | .06 | -.00 | 98994 | .9440 | -1.3963 | -.4835 | -.0017 | -.0009 | .0107 |
| 221 | .166 | 1909 | 1.96 | -.00 | 98990 | 1.0909 | -1.4086 | -.4521 | -.0016 | -.0007 | .0106 |
| 222 | .169 | 1968 | 3.95 | -.00 | 98991 | 1.2041 | -1.3635 | -.4041 | -.0021 | -.0009 | .0135 |
| 223 | .166 | 1912 | 5.92 | -.00 | 99034 | 1.3745 | -1.4231 | -.3822 | -.0018 | -.0024 | .0132 |
| 224 | .167 | 1922 | 7.92 | -.00 | 99028 | 1.5196 | -1.4312 | -.3463 | -.0011 | -.0008 | .0154 |
| 225 | .167 | 1922 | 9.94 | -.00 | 99028 | 1.6616 | -1.4268 | -.3196 | -.0028 | -.0005 | .0144 |
| 226 | .167 | 1922 | 12.05 | -.00 | 99034 | 1.7892 | -1.4313 | -.2891 | -.0011 | -.0001 | .0109 |
| 227 | .167 | 1932 | 14.18 | -.00 | 99034 | 1.8965 | -1.4251 | -.2455 | -.0006 | .0002 | .0093 |
| 228 | .165 | 1892 | 16.17 | -.00 | 99058 | 2.0674 | -1.4465 | -.2468 | -.0014 | .0002 | .0108 |
| 229 | .166 | 1902 | 18.18 | .00 | 99071 | 2.2196 | -1.4399 | -.2278 | .0006 | .0013 | -.0049 |
| 230 | .167 | 1922 | 20.13 | -.00 | 99031 | 2.3747 | -1.4311 | -.1785 | .0007 | .0015 | .0073 |
| 231 | .169 | 1971 | 21.54 | -.00 | 98984 | 2.4713 | -1.4022 | -.1349 | .0011 | .0018 | .0053 |
| 232 | .166 | 1905 | .05 | -.00 | 99051 | .9514 | -1.4143 | -.4867 | -.0013 | -.0006 | .0108 |

TEST 995 RUN 15

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 218 | .0476 | 26.5976 | 2.5219 | 20.4000 | 1.5455 | 1.5806 | 0.0000 | -1.5177 | .0155 |
| 219 | -1.7916 | 26.6778 | 2.5283 | 20.4000 | 1.5218 | 1.5556 | 0.0000 | -1.4917 | .0153 |
| 220 | .0567 | 26.7205 | 2.5365 | 20.4000 | 1.5522 | 1.5875 | 0.0000 | -1.5269 | .0157 |
| 221 | 1.9572 | 26.7705 | 2.5438 | 20.4000 | 1.5594 | 1.5949 | 0.0000 | -1.5332 | .0158 |
| 222 | 3.9477 | 26.5860 | 2.5263 | 20.4000 | 1.4986 | 1.5327 | 0.0000 | -1.4674 | .0165 |
| 223 | 5.9211 | 26.6434 | 2.5323 | 20.4000 | 1.5479 | 1.5831 | 0.0000 | -1.5126 | .0171 |
| 224 | 7.9177 | 26.6562 | 2.5324 | 20.4000 | 1.5417 | 1.5767 | 0.0000 | -1.4985 | .0168 |
| 225 | 9.9374 | 26.6839 | 2.5350 | 20.4000 | 1.5452 | 1.5804 | 0.0000 | -1.4927 | .0170 |
| 226 | 12.0516 | 26.7147 | 2.5406 | 20.4000 | 1.5480 | 1.5832 | 0.0000 | -1.4876 | .0170 |
| 227 | 14.1758 | 26.7468 | 2.5410 | 20.4000 | 1.5428 | 1.5778 | 0.0000 | -1.4676 | .0169 |
| 228 | 16.1726 | 26.7482 | 2.5433 | 20.4000 | 1.5768 | 1.6127 | 0.0000 | -1.4868 | .0172 |
| 229 | 18.1788 | 26.7705 | 2.5428 | 20.4000 | 1.5700 | 1.6057 | 0.0000 | -1.4629 | .0171 |
| 230 | 20.1293 | 26.8112 | 2.5497 | 20.4000 | 1.5575 | 1.5929 | 0.0000 | -1.4365 | .0165 |
| 231 | 21.5425 | 26.8235 | 2.5465 | 20.4000 | 1.5187 | 1.5532 | 0.0000 | -1.3839 | .0164 |
| 232 | .0478 | 26.8570 | 2.5556 | 20.4000 | 1.5773 | 1.6131 | 0.0000 | -1.5495 | .0168 |

TEST 995 RUN 15

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 218 | .0476 | .9486 | -1.3863 | -.4811 | .9473 | .1438 | -.3067 | .9485 | -1.3229 | -.4722 | 1.5000 |
| 219 | -1.7916 | .7532 | -1.3904 | -.5060 | .9008 | .1146 | -.3344 | .7549 | -1.3514 | -.4998 | 1.5000 |
| 220 | .0567 | .9453 | -1.3954 | -.4835 | .9438 | .1411 | -.3084 | .9452 | -1.3255 | -.4738 | 1.5000 |
| 221 | 1.9572 | 1.1384 | -1.3706 | -.4521 | 1.0851 | .1721 | -.2761 | 1.1352 | -1.2937 | -.4416 | 1.5000 |
| 222 | 3.9477 | 1.2951 | -1.2773 | -.4041 | 1.1919 | .2012 | -.2358 | 1.2929 | -1.2619 | -.4005 | 1.5000 |
| 223 | 5.9211 | 1.5139 | -1.2737 | -.3822 | 1.3543 | .2488 | -.2076 | 1.5056 | -1.2180 | -.3730 | 1.5000 |
| 224 | 7.9177 | 1.7023 | -1.2082 | -.3463 | 1.4899 | .3019 | -.1724 | 1.6919 | -1.1507 | -.3379 | 1.5000 |
| 225 | 9.9374 | 1.8829 | -1.1186 | -.3196 | 1.6162 | .3864 | -.1452 | 1.8693 | -1.0583 | -.3107 | 1.5000 |
| 226 | 12.0516 | 2.0487 | -1.0262 | -.2891 | 1.7254 | .4787 | -.1144 | 2.0317 | -.9637 | -.2799 | 1.5000 |
| 227 | 14.1758 | 2.1878 | -.9172 | -.2455 | 1.8100 | .5617 | -.0714 | 2.1692 | -.8683 | -.2369 | 1.5000 |
| 228 | 16.1726 | 2.3885 | -.8134 | -.2468 | 1.9493 | .6838 | -.0689 | 2.3578 | -.7248 | -.2344 | 1.5000 |
| 229 | 18.1788 | 2.5588 | -.6755 | -.2278 | 2.0682 | .7991 | -.0506 | 2.5258 | -.5944 | -.2161 | 1.5000 |
| 230 | 20.1293 | 2.7221 | -.5264 | -.1785 | 2.1861 | .9194 | -.0028 | 2.6909 | -.4577 | -.1683 | 1.5000 |
| 231 | 21.5425 | 2.8136 | -.3968 | -.1349 | 2.2559 | .9995 | .0364 | 2.7944 | -.3647 | -.1291 | 1.5000 |
| 232 | .0478 | .9526 | -1.4135 | -.4867 | .9513 | .1458 | -.3088 | .9525 | -1.3217 | -.4742 | 1.5000 |

NASA LANGLEY 7 X 16 HIGH SPEED TUNNEL

TEST 995 RUN 16

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 233 | .167 | 1922 | .04 | -.00 | 99041 | .9649 | -1.6078 | -.5024 | -.0007 | -.0006 | .0051 |
| 234 | .167 | 1925 | -1.84 | -.00 | 99048 | .8314 | -1.6945 | -.5450 | -.0016 | -.0004 | .0046 |
| 235 | .167 | 1925 | .05 | -.00 | 99055 | .9760 | -1.6972 | -.5125 | -.0017 | -.0004 | .0050 |
| 236 | .166 | 1919 | 1.96 | -.00 | 99061 | 1.1161 | -1.7104 | -.4841 | -.0017 | -.0005 | .0047 |
| 237 | .166 | 1919 | 3.90 | -.00 | 99068 | 1.2493 | -1.7237 | -.4519 | -.0022 | -.0007 | .0070 |
| 238 | .166 | 1915 | 5.94 | -.00 | 99082 | 1.4078 | -1.7414 | -.4188 | -.0023 | -.0019 | .0089 |
| 239 | .166 | 1922 | 7.93 | -.00 | 99072 | 1.5504 | -1.7416 | -.3788 | -.0012 | -.0010 | .0073 |
| 240 | .168 | 1952 | 10.00 | -.00 | 99041 | 1.6789 | -1.7139 | -.3471 | -.0002 | -.0004 | .0063 |
| 241 | .166 | 1909 | 12.10 | -.00 | 99092 | 1.8302 | -1.7430 | -.3227 | -.0014 | -.0003 | .0075 |
| 242 | .167 | 1935 | 14.19 | -.00 | 99058 | 1.9306 | -1.7241 | -.2750 | -.0014 | -.0003 | .0059 |
| 243 | .168 | 1958 | 16.18 | -.00 | 99038 | 2.0645 | -1.6953 | -.2583 | -.0024 | -.0004 | .0085 |
| 244 | .167 | 1945 | 18.15 | -.00 | 99062 | 2.2265 | -1.7014 | -.2416 | -.0008 | .0001 | .0058 |
| 245 | .167 | 1925 | 20.18 | -.00 | 99068 | 2.3960 | -1.7241 | -.2022 | .0003 | .0006 | .0071 |
| 246 | .167 | 1935 | 21.49 | -.00 | 99075 | 2.4906 | -1.7177 | -.1729 | -.0006 | .0013 | .0091 |
| 247 | .167 | 1932 | .06 | -.00 | 99068 | .9678 | -1.6728 | -.5094 | -.0015 | -.0004 | .0060 |

TEST 995 RUN 16

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 233 | .0425 | 29.8731 | 2.8800 | 20.4000 | 1.7586 | 1.7986 | 0.0000 | -1.7575 | .0190 |
| 234 | -1.8414 | 30.0061 | 2.8560 | 20.4000 | 1.8313 | 1.8729 | 0.0000 | -1.8287 | .0192 |
| 235 | .0457 | 30.0321 | 2.8572 | 20.4000 | 1.8343 | 1.8760 | 0.0000 | -1.8309 | .0193 |
| 236 | 1.9563 | 30.0185 | 2.8568 | 20.4000 | 1.8482 | 1.8820 | 0.0000 | -1.8358 | .0195 |
| 237 | 3.8990 | 29.9958 | 2.8532 | 20.4000 | 1.8384 | 1.8802 | 0.0000 | -1.8293 | .0195 |
| 238 | 5.9399 | 29.9896 | 2.8544 | 20.4000 | 1.8418 | 1.8836 | 0.0000 | -1.8282 | .0196 |
| 239 | 7.9329 | 29.9848 | 2.8564 | 20.4000 | 1.8374 | 1.8792 | 0.0000 | -1.8160 | .0195 |
| 240 | 10.0012 | 29.9703 | 2.8519 | 20.4000 | 1.8871 | 1.8482 | 0.0000 | -1.7734 | .0192 |
| 241 | 12.0963 | 29.9447 | 2.8515 | 20.4000 | 1.8477 | 1.8897 | 0.0000 | -1.8009 | .0196 |
| 242 | 14.1879 | 29.9312 | 2.8486 | 20.4000 | 1.8200 | 1.8614 | 0.0000 | -1.7578 | .0193 |
| 243 | 16.1757 | 29.9100 | 2.8447 | 20.4000 | 1.7954 | 1.8362 | 0.0000 | -1.7169 | .0190 |
| 244 | 18.1505 | 29.9068 | 2.8491 | 20.4000 | 1.8095 | 1.8506 | 0.0000 | -1.7147 | .0190 |
| 245 | 20.1846 | 29.8823 | 2.8428 | 20.4000 | 1.8242 | 1.8656 | 0.0000 | -1.7054 | .0191 |
| 246 | 21.4948 | 29.8712 | 2.8433 | 20.4000 | 1.8138 | 1.8550 | 0.0000 | -1.6825 | .0189 |
| 247 | .0569 | 29.8157 | 2.8364 | 20.4000 | 1.8138 | 1.8550 | 0.0000 | -1.8045 | .0209 |

TEST 995 RUN 16

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 233 | .0425 | .9661 | -1.6071 | -.5024 | .9648 | .1325 | -.3040 | .9661 | -1.6275 | -.5025 | 1.8000 |
| 234 | -1.8414 | .7765 | -1.7203 | -.5450 | .8353 | .0908 | -.3384 | .7788 | -1.6682 | -.5370 | 1.8000 |
| 235 | .0457 | .9774 | -1.6964 | -.5125 | .9759 | .1185 | -.3856 | .9773 | -1.6415 | -.5041 | 1.8000 |
| 236 | 1.9563 | 1.1739 | -1.6713 | -.4841 | 1.1111 | .1483 | -.2765 | 1.1711 | -1.6186 | -.4751 | 1.8000 |
| 237 | 3.8990 | 1.3636 | -1.6348 | -.4519 | 1.2386 | .1799 | -.2445 | 1.3583 | -1.5760 | -.4430 | 1.8000 |
| 238 | 5.9399 | 1.5805 | -1.5864 | -.4188 | 1.3899 | .2259 | -.2111 | 1.5720 | -1.5247 | -.4096 | 1.8000 |
| 239 | 7.9329 | 1.7759 | -1.5109 | -.3788 | 1.5223 | .2894 | -.1715 | 1.7652 | -1.4538 | -.3700 | 1.8000 |
| 240 | 10.0012 | 1.9510 | -1.3963 | -.3471 | 1.6372 | .3641 | -.1432 | 1.9429 | -1.3691 | -.3418 | 1.8000 |
| 241 | 12.0963 | 2.1548 | -1.3207 | -.3227 | 1.7676 | .4663 | -.1142 | 2.1364 | -1.2546 | -.3128 | 1.8000 |
| 242 | 14.1879 | 2.2943 | -1.1983 | -.2750 | 1.8482 | .5469 | -.0697 | 2.2796 | -1.1595 | -.2682 | 1.8000 |
| 243 | 16.1757 | 2.4558 | -1.0531 | -.2583 | 1.9549 | .6523 | -.0557 | 2.4452 | -1.0381 | -.2543 | 1.8000 |
| 244 | 18.1505 | 2.6457 | -.9231 | -.2416 | 2.0821 | .7773 | -.0375 | 2.6303 | -.8951 | -.2360 | 1.8000 |
| 245 | 20.1846 | 2.8437 | -.7915 | -.2022 | 2.2143 | .9016 | .0036 | 2.8216 | -.7504 | -.1950 | 1.8000 |
| 246 | 21.4948 | 2.9468 | -.6857 | -.1729 | 2.2822 | .9838 | .0317 | 2.9271 | -.6546 | -.1668 | 1.8000 |
| 247 | .0569 | .9695 | -1.6718 | -.5094 | .9677 | .1211 | -.3048 | .9694 | -1.6389 | -.5034 | 1.8000 |

TEST 995 NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL RUN 17

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 250 | .166 | 1922 | .02 | .00 | 99143 | .3689 | .0693 | -.0839 | -.0013 | -.0001 | -.0007 |
| 251 | .166 | 1909 | -1.83 | .00 | 99143 | .2389 | .0719 | -.1183 | -.0016 | -.0002 | -.0033 |
| 252 | .165 | 1882 | .00 | .00 | 99159 | .3745 | .0724 | -.0825 | -.0017 | -.0000 | -.0053 |
| 253 | .165 | 1879 | 1.90 | -.00 | 99156 | .5027 | .0664 | -.0510 | -.0014 | .0002 | -.0008 |
| 254 | .164 | 1856 | 3.88 | .00 | 99166 | .6487 | .0578 | -.0155 | -.0010 | .0002 | -.0047 |
| 255 | .162 | 1829 | 5.85 | .00 | 99189 | .7639 | .0432 | .0249 | -.0008 | -.0002 | -.0002 |
| 256 | .167 | 1932 | 7.87 | .00 | 99153 | .8485 | .0288 | .0632 | -.0008 | -.0002 | -.0016 |
| 257 | .163 | 1849 | 9.92 | -.00 | 99149 | .9928 | .0238 | .1075 | -.0010 | -.0003 | .0051 |
| 258 | .162 | 1823 | 12.06 | .00 | 99175 | 1.0873 | .0202 | .1504 | -.0010 | .0000 | -.0017 |
| 259 | .161 | 1803 | 14.09 | .00 | 99185 | 1.1872 | .0249 | .1987 | -.0004 | -.0001 | -.0008 |
| 260 | .162 | 1816 | 16.15 | .00 | 99172 | 1.3020 | .0417 | .2200 | -.0021 | -.0010 | .0021 |
| 261 | .161 | 1796 | 18.09 | -.00 | 99195 | 1.4385 | .0587 | .2364 | -.0011 | -.0009 | .0041 |
| 262 | .161 | 1790 | 20.12 | .00 | 99185 | 1.5797 | .0544 | .2828 | .0004 | -.0001 | .0004 |
| 263 | .162 | 1813 | 21.43 | -.00 | 99162 | 1.6613 | .0501 | .3152 | .0007 | .0004 | .0021 |
| 264 | .166 | 1912 | .02 | .00 | 99865 | .3697 | .0611 | -.0834 | -.0017 | -.0001 | -.0006 |

TEST 995 RUN 17

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 250 | .0151 | 0.0000 | .9770 | 28.1505 | 0.0000 | 0.0000 | 0.0000 | .0227 | .0077 |
| 251 | -1.8286 | 0.0000 | .9788 | 28.1467 | 0.0000 | 0.0000 | 0.0000 | .0211 | .0079 |
| 252 | .0012 | 0.0000 | .9797 | 28.1446 | 0.0000 | 0.0000 | 0.0000 | .0205 | .0077 |
| 253 | 1.9029 | 0.0000 | .9786 | 28.1472 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0076 |
| 254 | 3.8752 | 0.0000 | .9791 | 28.1459 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0076 |
| 255 | 5.8535 | 0.0000 | .9787 | 28.1468 | 0.0000 | 0.0000 | 0.0000 | .0220 | .0071 |
| 256 | 7.8695 | 0.0000 | .9803 | 28.1433 | 0.0000 | 0.0000 | 0.0000 | .0192 | .0068 |
| 257 | 9.9189 | 0.0000 | .9806 | 28.1428 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0069 |
| 258 | 12.0575 | 0.0000 | .9828 | 28.1379 | 0.0000 | 0.0000 | 0.0000 | .0176 | .0071 |
| 259 | 14.0930 | 0.0000 | .9812 | 28.1415 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0079 |
| 260 | 16.1504 | 0.0000 | .9769 | 28.1508 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0081 |
| 261 | 18.0930 | 0.0000 | .9725 | 28.1605 | 0.0000 | 0.0000 | 0.0000 | .0277 | .0092 |
| 262 | 20.1158 | 0.0000 | .9708 | 28.1641 | 0.0000 | 0.0000 | 0.0000 | .0291 | .0094 |
| 263 | 21.4344 | 0.0000 | .9705 | 28.1649 | 0.0000 | 0.0000 | 0.0000 | .0288 | .0098 |
| 264 | .0242 | 0.0000 | .9819 | 28.1397 | 0.0000 | 0.0000 | 0.0000 | .0179 | .0077 |

TEST 995 RUN 17

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 250 | .0151 | .3689 | .0694 | -.0839 | .3689 | .0390 | -.0839 | .3689 | .0617 | -.0839 | 1.0000 |
| 251 | -1.8286 | .2411 | .0643 | -.1183 | .2411 | .0353 | -.1183 | .2411 | .0564 | -.1183 | 1.0000 |
| 252 | .0012 | .3745 | .0724 | -.0825 | .3745 | .0442 | -.0825 | .3745 | .0647 | -.0825 | 1.0000 |
| 253 | 1.9029 | .5003 | .0830 | -.0510 | .5003 | .0538 | -.0510 | .5003 | .0754 | -.0510 | 1.0000 |
| 254 | 3.8752 | .6354 | .1001 | -.0155 | .6354 | .0712 | -.0155 | .6354 | .0925 | -.0155 | 1.0000 |
| 255 | 5.8535 | .7556 | .1209 | .0249 | .7556 | .0918 | .0249 | .7556 | .1138 | .0249 | 1.0000 |
| 256 | 7.8695 | .8366 | .1447 | .0632 | .8366 | .1187 | .0632 | .8366 | .1379 | .0632 | 1.0000 |
| 257 | 9.9189 | .9740 | .1937 | .1075 | .9740 | .1671 | .1875 | .9740 | .1868 | .1075 | 1.0000 |
| 258 | 12.0575 | 1.0591 | .2469 | .1504 | 1.0591 | .2223 | .1504 | 1.0591 | .2398 | .1504 | 1.0000 |
| 259 | 14.0930 | 1.1455 | .3132 | .1987 | 1.1455 | .2861 | .1987 | 1.1455 | .3053 | .1987 | 1.0000 |
| 260 | 16.1504 | 1.2391 | .4022 | .2200 | 1.2391 | .3709 | .2280 | 1.2391 | .3941 | .2200 | 1.0000 |
| 261 | 18.0930 | 1.3492 | .5025 | .2364 | 1.3492 | .4657 | .2364 | 1.3492 | .4934 | .2364 | 1.0000 |
| 262 | 20.1158 | 1.4646 | .5944 | .2828 | 1.4646 | .5559 | .2828 | 1.4646 | .5850 | .2828 | 1.0000 |
| 263 | 21.4344 | 1.5281 | .6537 | .3152 | 1.5281 | .6151 | .3152 | 1.5281 | .6439 | .3152 | 1.0000 |
| 264 | .0242 | .3696 | .0813 | -.0834 | .3696 | .0557 | -.0834 | .3696 | .0736 | -.0834 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 18

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 265 | .166 | 1919 | .03 | .00 | 99105 | .3730 | .0779 | -.0833 | .0005 | -.0000 | -.0025 |
| 266 | .168 | 1948 | .02 | .00 | 99109 | .3686 | .0767 | -.0829 | -.0011 | -.0000 | -.0019 |
| 267 | .170 | 1995 | .05 | -.00 | 99113 | .9252 | -.8332 | -.3989 | -.0003 | -.0036 | .0221 |
| 268 | .170 | 2001 | -1.80 | -.00 | 99110 | .7865 | -.8336 | -.4316 | -.0010 | -.002A | .0066 |
| 269 | .170 | 2014 | .04 | .00 | 99107 | .9281 | -.8336 | -.3996 | .0013 | -.0026 | .0061 |
| 270 | .169 | 1988 | 1.93 | -.00 | 99133 | 1.0739 | -.8567 | -.3711 | -.0004 | -.002A | .0100 |
| 271 | .168 | 1948 | 3.91 | .00 | 99187 | 1.2124 | -.8599 | -.3382 | -.0019 | -.0029 | .0024 |
| 272 | .166 | 1915 | 5.90 | .00 | 99221 | 1.3642 | -.8953 | -.3079 | -.0003 | -.0035 | .0109 |
| 273 | .165 | 1882 | 7.92 | -.00 | 99257 | 1.5314 | -.9212 | -.2840 | -.0010 | -.0033 | .0110 |
| 274 | .166 | 1912 | 9.99 | -.00 | 99227 | 1.6592 | -.9106 | -.2554 | -.0007 | -.0027 | .0114 |
| 275 | .165 | 1889 | 12.09 | -.00 | 99244 | 1.8024 | -.9275 | -.2253 | -.0005 | -.0026 | .0098 |
| 276 | .165 | 1902 | 14.17 | -.00 | 99251 | 1.8938 | -.8918 | -.1749 | -.0008 | -.0025 | .0116 |
| 277 | .163 | 1853 | 16.13 | -.00 | 99284 | 2.0824 | -.9044 | -.1846 | -.0024 | -.0033 | .0155 |
| 278 | .165 | 1886 | 18.15 | -.00 | 99295 | 2.1955 | -.8932 | -.1538 | -.0010 | -.0030 | .0126 |
| 279 | .167 | 1932 | 20.17 | -.00 | 99231 | 2.3374 | -.8806 | -.0971 | -.0002 | -.0026 | .0127 |
| 280 | .168 | 1968 | 21.47 | -.00 | 99167 | 2.4537 | -.8756 | -.0550 | -.0003 | -.0021 | .0142 |
| 281 | .166 | 1919 | .06 | -.00 | 99217 | .9375 | -.8663 | -.4080 | -.0006 | -.0030 | .0083 |

TEST 995 RUN 18

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CML,N | CMU,J | CD,N | CD,F |
|---|---|---|---|---|---|---|---|---|---|
| 265 | .0269 | 0.0000 | .9824 | 28.1387 | 0.0000 | 0.0000 | 0.0000 | .0174 | .0066 |
| 266 | .0223 | 0.0000 | .9830 | 28.1374 | 0.0000 | 0.0000 | 0.0000 | .0166 | .0066 |
| 267 | .0517 | 21.4477 | 2.0213 | 25.8532 | 1.0431 | 1.0668 | 0.0000 | -.9724 | .0070 |
| 268 | -1.7977 | 21.4873 | 2.0245 | 25.8462 | 1.0428 | 1.0665 | 0.0000 | -.9717 | .0071 |
| 269 | .0408 | 21.5185 | 2.0290 | 25.8362 | 1.0393 | 1.0629 | 0.0000 | -.9700 | .0072 |
| 270 | 1.9313 | 21.5465 | 2.0298 | 25.8345 | 1.0557 | 1.0797 | 0.0000 | -.9834 | .0073 |
| 271 | 3.9116 | 21.1508 | 1.9936 | 25.9142 | 1.0442 | 1.0680 | 0.0000 | -.9669 | .0075 |
| 272 | 5.8971 | 21.2182 | 2.0009 | 25.8980 | 1.0694 | 1.0937 | 0.0000 | -.9882 | .0077 |
| 273 | 7.9185 | 21.2582 | 2.0040 | 25.8911 | 1.0913 | 1.1161 | 0.0000 | -1.0048 | .0078 |
| 274 | 9.9894 | 21.2951 | 2.0112 | 25.8753 | 1.0798 | 1.1043 | 0.0000 | -.9903 | .0078 |
| 275 | 12.0929 | 21.3184 | 2.0148 | 25.8674 | 1.0955 | 1.1204 | 0.0000 | -.9990 | .0079 |
| 276 | 14.1717 | 20.9515 | 1.9787 | 25.9469 | 1.0576 | 1.0816 | 0.0000 | -.9487 | .0079 |
| 277 | 16.1335 | 20.9493 | 1.9775 | 25.9494 | 1.0852 | 1.1098 | 0.0000 | -.9643 | .0081 |
| 278 | 18.1509 | 20.9737 | 1.9828 | 25.9378 | 1.0696 | 1.0939 | 0.0000 | -.9423 | .0080 |
| 279 | 20.1716 | 21.0074 | 1.9876 | 25.9273 | 1.0480 | 1.0718 | 0.0000 | -.9124 | .0082 |
| 280 | 21.4658 | 21.0197 | 1.9926 | 25.9164 | 1.0321 | 1.0556 | 0.0000 | -.8918 | .0082 |
| 281 | .0551 | 21.0854 | 2.0003 | 25.8992 | 1.0667 | 1.0910 | 0.0000 | -.9912 | .0094 |

TEST 995 RUN 18

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 265 | .0269 | .3730 | .0781 | -.0833 | .3730 | .0542 | -.0833 | .3730 | .0716 | -.0833 | 1.0000 |
| 266 | .0223 | .3685 | .0769 | -.0829 | .3685 | .0538 | -.0829 | .3685 | .0703 | -.0829 | 1.0000 |
| 267 | .0517 | .9259 | -.8324 | -.3989 | .9250 | .2037 | -.2812 | .9260 | -.9696 | -.4136 | .2000 |
| 268 | -1.7977 | .7599 | -.8579 | -.4316 | .7927 | .1772 | -.3139 | .7558 | -.9955 | -.4463 | .2000 |
| 269 | .0408 | .9287 | -.8329 | -.3996 | .9280 | .1992 | -.2824 | .9288 | -.9742 | -.4147 | 1.2000 |
| 270 | 1.9313 | 1.1022 | -.8200 | -.3711 | 1.0666 | .2277 | -.2520 | 1.1061 | -.9449 | -.3844 | 1.2000 |
| 271 | 3.9116 | 1.2682 | -.7752 | -.3382 | 1.1970 | .2591 | -.2204 | 1.2770 | -.9115 | -.3528 | 1.2000 |
| 272 | 5.8971 | 1.4530 | -.7499 | -.3079 | 1.3431 | .3061 | -.1873 | 1.4637 | -.8810 | -.3197 | 1.2000 |
| 273 | 7.9185 | 1.6438 | -.7014 | -.2840 | 1.4934 | .3716 | -.1609 | 1.6551 | -.7906 | -.2932 | 1.2000 |
| 274 | 9.9894 | 1.7920 | -.6090 | -.2554 | 1.6046 | .4467 | -.1335 | 1.8082 | -.7089 | -.2659 | 1.2000 |
| 275 | 12.0929 | 1.9567 | -.5293 | -.2253 | 1.7272 | .5339 | -.1017 | 1.9738 | -.6134 | -.2341 | 1.2000 |
| 276 | 14.1717 | 2.0544 | -.4010 | -.1749 | 1.7955 | .6166 | -.0556 | 2.0828 | -.5211 | -.1880 | 1.2000 |
| 277 | 16.1335 | 2.2517 | -.2901 | -.1846 | 1.9502 | .7442 | -.0622 | 2.2762 | -.3829 | -.1946 | 1.2000 |
| 278 | 18.1509 | 2.3645 | -.1648 | -.1538 | 2.0313 | .8436 | -.0332 | 2.3968 | -.2714 | -.1655 | 1.2000 |
| 279 | 20.1716 | 2.4977 | -.0206 | -.0971 | 2.1363 | .9549 | .0211 | 2.5409 | -.1465 | -.1113 | 1.2000 |
| 280 | 21.4658 | 2.6039 | .0831 | -.0550 | 2.2262 | 1.0354 | .0614 | 2.6556 | -.0565 | -.0710 | 1.2000 |
| 281 | .0551 | .9383 | -.8654 | -.4080 | .9373 | .1919 | -.2877 | .9384 | -.9814 | -.4201 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 19

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 282 | .167 | 1948 | .05 | .00 | 99211 | 1.0811 | -1.2961 | -.5293 | .0000 | -.0020 | .0047 |
| 283 | .168 | 1955 | -1.83 | -.00 | 99197 | .9256 | -1.2925 | -.5639 | .0001 | -.0020 | .0077 |
| 284 | .168 | 1952 | .09 | -.00 | 99207 | 1.0861 | -1.3026 | -.5316 | .0003 | -.0019 | .0059 |
| 285 | .167 | 1932 | 1.90 | -.00 | 99217 | 1.2332 | -1.3253 | -.5073 | -.0002 | -.0018 | .0059 |
| 286 | .166 | 1922 | 3.88 | -.00 | 99241 | 1.3772 | -1.3482 | -.4766 | -.0004 | -.0020 | .0070 |
| 287 | .166 | 1919 | 5.85 | .00 | 99231 | 1.5338 | -1.3680 | -.4407 | -.0007 | -.0025 | -.0071 |
| 288 | .167 | 1932 | 7.90 | .00 | 99234 | 1.6621 | -1.3682 | -.4057 | .0002 | -.0022 | .0074 |
| 289 | .166 | 1919 | 9.97 | -.00 | 99244 | 1.8070 | -1.3701 | -.3864 | .0005 | -.0018 | .0079 |
| 290 | .165 | 1902 | 12.07 | .00 | 99251 | 1.9502 | -1.3961 | -.3580 | .0012 | -.0015 | .0038 |
| 291 | .167 | 1939 | 14.21 | -.00 | 99224 | 2.0336 | -1.3372 | -.2910 | .0017 | .0007 | .0125 |
| 292 | .166 | 1909 | 16.20 | -.00 | 99241 | 2.1996 | -1.3503 | -.2939 | .0016 | -.0017 | .0076 |
| 293 | .165 | 1902 | 18.16 | -.00 | 99254 | 2.3615 | -1.3589 | -.2712 | .0021 | -.0013 | .0076 |
| 294 | .167 | 1932 | 20.18 | -.00 | 99228 | 2.4926 | -1.3455 | -.2164 | .0035 | -.0006 | .0043 |
| 295 | .167 | 1929 | 21.47 | -.00 | 99255 | 2.5631 | -1.3515 | -.1866 | .0025 | .0003 | .0030 |
| 296 | .170 | 2001 | .05 | -.00 | 99194 | 1.0941 | -1.3093 | -.5397 | -.0015 | -.0022 | .0064 |

TEST 995 RUN 19

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 282 | .0545 | 26.3505 | 2.5188 | 24.7586 | 1.5035 | 1.5377 | 0.0000 | -1.4818 | .0106 |
| 283 | -1.8323 | 26.4059 | 2.5157 | 24.7655 | 1.5017 | 1.5358 | 0.0000 | -1.4729 | .0107 |
| 284 | .0919 | 26.4857 | 2.5256 | 24.7437 | 1.5128 | 1.5472 | 0.0000 | -1.4859 | .0109 |
| 285 | 1.9089 | 26.5215 | 2.5308 | 24.7322 | 1.5317 | 1.5665 | 0.0000 | -1.5056 | .0112 |
| 286 | 3.8792 | 26.5602 | 2.5321 | 24.7294 | 1.5422 | 1.5773 | 0.0000 | -1.5124 | .0114 |
| 287 | 5.8492 | 26.5648 | 2.5355 | 24.7219 | 1.5469 | 1.5821 | 0.0000 | -1.5137 | .0115 |
| 288 | 7.9007 | 26.6233 | 2.5385 | 24.7154 | 1.5404 | 1.5754 | 0.0000 | -1.4998 | .0115 |
| 289 | 9.9674 | 26.6025 | 2.5402 | 24.7116 | 1.5537 | 1.5890 | 0.0000 | -1.5034 | .0117 |
| 290 | 12.0729 | 26.6415 | 2.5450 | 24.7810 | 1.5669 | 1.6025 | 0.0000 | -1.5105 | .0119 |
| 291 | 14.2139 | 26.3289 | 2.5099 | 24.7781 | 1.5098 | 1.5441 | 0.0000 | -1.4356 | .0123 |
| 292 | 16.2005 | 26.3890 | 2.5139 | 24.7693 | 1.5388 | 1.5729 | 0.0000 | -1.4483 | .0126 |
| 293 | 18.1644 | 26.4072 | 2.5195 | 24.7571 | 1.5458 | 1.5809 | 0.0000 | -1.4435 | .0127 |
| 294 | 20.1779 | 26.4606 | 2.5221 | 24.7513 | 1.5274 | 1.5621 | 0.0000 | -1.4061 | .0125 |
| 295 | 21.4678 | 26.4705 | 2.5225 | 24.7505 | 1.5297 | 1.5644 | 0.0000 | -1.3972 | .0126 |
| 296 | .0470 | 27.0822 | 2.5768 | 24.6311 | 1.5231 | 1.5578 | 0.0000 | -1.4975 | .0139 |

TEST 995 RUN 19

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 282 | .0545 | 1.0823 | -1.2951 | -.5293 | 1.0889 | .1979 | -.3597 | 1.0823 | -1.2688 | -.5251 | 1.5000 |
| 283 | -1.8323 | .8838 | -1.3214 | -.5639 | .9318 | .1688 | -.3945 | .8849 | -1.2972 | -.5599 | 1.5000 |
| 284 | .0919 | 1.0882 | -1.3008 | -.5316 | 1.0858 | .2010 | -.3609 | 1.0881 | -1.2656 | -.5263 | 1.5000 |
| 285 | 1.9009 | 1.2765 | -1.2836 | -.5073 | 1.2257 | .2360 | -.3345 | 1.2744 | -1.2299 | -.5000 | 1.5000 |
| 286 | 3.8792 | 1.4653 | -1.2519 | -.4766 | 1.3610 | .2754 | -.3026 | 1.4602 | -1.1879 | -.4681 | 1.5000 |
| 287 | 5.8492 | 1.6653 | -1.2045 | -.4407 | 1.5076 | .3228 | -.2661 | 1.6571 | -1.1362 | -.4316 | 1.5000 |
| 288 | 7.9007 | 1.8344 | -1.1268 | -.4057 | 1.6227 | .3875 | -.2319 | 1.8243 | -1.0652 | -.3974 | 1.5000 |
| 289 | 9.9674 | 2.0185 | -1.0455 | -.3864 | 1.7496 | .4730 | -.2111 | 2.0034 | -.9715 | -.3766 | 1.5000 |
| 290 | 12.0729 | 2.1991 | -.9573 | -.3580 | 1.8714 | .5631 | -.1812 | 2.1781 | -.8712 | -.3467 | 1.5000 |
| 291 | 14.2139 | 2.2997 | -.7970 | -.2910 | 1.9289 | .6543 | -.1207 | 2.2891 | -.7674 | -.2862 | 1.5000 |
| 292 | 16.2005 | 2.4890 | -.6830 | -.2939 | 2.0599 | .7813 | -.1204 | 2.4691 | -.6271 | -.2858 | 1.5000 |
| 293 | 18.1644 | 2.6675 | -.5550 | -.2712 | 2.1856 | .9010 | -.0968 | 2.6428 | -.4926 | -.2623 | 1.5000 |
| 294 | 20.1779 | 2.8038 | -.4031 | -.2164 | 2.2769 | 1.0180 | -.0440 | 2.7828 | -.3587 | -.2095 | 1.5000 |
| 295 | 21.4678 | 2.8799 | -.3197 | -.1866 | 2.3201 | 1.0913 | -.0140 | 2.8569 | -.2737 | -.1794 | 1.5000 |
| 296 | .0470 | 1.0951 | -1.3084 | -.5397 | 1.0939 | .2808 | -.3678 | 1.0951 | -1.2658 | -.5333 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 20

| POINT | MACH | U N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 297 | .174 | 2110 | .06 | .00 | 99894 | 1.1131 | -1.4328 | -.5647 | -.0005 | -.0015 | .0026 |
| 298 | .167 | 1945 | -1.79 | .00 | 99282 | 1.0300 | -1.5601 | -.6370 | -.0004 | -.0019 | .0013 |
| 299 | .178 | 2001 | .07 | .00 | 99269 | 1.1445 | -1.5177 | -.5882 | -.0010 | -.0015 | .0008 |
| 300 | .169 | 1978 | 1.96 | .00 | 99286 | 1.2896 | -1.5440 | -.5639 | -.0010 | -.0017 | .0006 |
| 301 | .166 | 1925 | 3.86 | -.00 | 99305 | 1.4576 | -1.5991 | -.5460 | -.0007 | -.0015 | .0062 |
| 302 | .166 | 1915 | 5.89 | .00 | 99302 | 1.6107 | -1.6241 | -.5121 | -.0008 | -.0031 | .0033 |
| 303 | .168 | 1955 | 7.87 | .00 | 99326 | 1.7118 | -1.5964 | -.4659 | -.0002 | -.0021 | .0019 |
| 304 | .164 | 1872 | 9.92 | .00 | 99352 | 1.9023 | -1.6671 | -.4612 | -.0003 | -.0019 | .0038 |
| 305 | .165 | 1882 | 12.04 | .00 | 99322 | 2.0320 | -1.6618 | -.4225 | -.0006 | -.0007 | .0116 |
| 306 | .164 | 1872 | 14.14 | .00 | 99328 | 2.1375 | -1.6693 | -.3778 | .0002 | -.0015 | .0017 |
| 307 | .163 | 1849 | 16.18 | .00 | 99332 | 2.2894 | -1.6829 | -.3753 | -.0011 | -.0020 | .0019 |
| 308 | .162 | 1816 | 18.13 | .00 | 99358 | 2.4686 | -1.7121 | -.3632 | .0005 | -.0019 | .0061 |
| 309 | .164 | 1876 | 20.21 | .00 | 99288 | 2.5857 | -1.6637 | -.2956 | .0011 | -.0012 | .0007 |
| 310 | .164 | 1863 | 21.48 | .00 | 99298 | 2.6889 | -1.6786 | -.2661 | .0008 | -.0006 | .0001 |
| 311 | .166 | 1919 | .05 | .00 | 99231 | 1.1812 | -1.5889 | -.6138 | -.0011 | -.0025 | -.0005 |

TEST 995 RUN 20

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 297 | .0553 | 29.4975 | 2.8123 | 24.1129 | 1.6349 | 1.6721 | 0.0000 | -1.6308 | .0134 |
| 298 | -1.7919 | 29.5388 | 2.8086 | 24.1210 | 1.7753 | 1.8156 | 0.0000 | -1.7660 | .0152 |
| 299 | .0700 | 29.5312 | 2.8101 | 24.1179 | 1.7243 | 1.7635 | 0.0000 | -1.7204 | .0149 |
| 300 | 1.9566 | 29.5368 | 2.8053 | 24.1283 | 1.7426 | 1.7822 | 0.0000 | -1.7352 | .0151 |
| 301 | 3.8592 | 29.5223 | 2.8114 | 24.1150 | 1.7925 | 1.8332 | 0.0000 | -1.7862 | .0156 |
| 302 | 5.8855 | 29.5381 | 2.8088 | 24.1207 | 1.8019 | 1.8429 | 0.0000 | -1.7873 | .0157 |
| 303 | 7.8720 | 29.5361 | 2.8052 | 24.1287 | 1.7639 | 1.8040 | 0.0000 | -1.7408 | .0154 |
| 304 | 9.9152 | 29.5321 | 2.8062 | 24.1264 | 1.8419 | 1.8838 | 0.0000 | -1.8089 | .0161 |
| 305 | 12.0397 | 29.5342 | 2.8106 | 24.1166 | 1.8337 | 1.8753 | 0.0000 | -1.7903 | .0160 |
| 306 | 14.1405 | 29.5367 | 2.8083 | 24.1218 | 1.8430 | 1.8849 | 0.0000 | -1.7823 | .0160 |
| 307 | 16.1846 | 29.5606 | 2.8065 | 24.1258 | 1.8670 | 1.9095 | 0.0000 | -1.7855 | .0165 |
| 308 | 18.1396 | 29.5694 | 2.8080 | 24.1224 | 1.9015 | 1.9448 | 0.0000 | -1.8009 | .0167 |
| 309 | 20.2131 | 29.6424 | 2.8126 | 24.1122 | 1.8470 | 1.8890 | 0.0000 | -1.7252 | .0162 |
| 310 | 21.4847 | 29.5656 | 2.8113 | 24.1151 | 1.8552 | 1.8974 | 0.0000 | -1.7218 | .0163 |
| 311 | .0529 | 29.6156 | 2.8115 | 24.1147 | 1.8030 | 1.8440 | 0.0000 | -1.7952 | .0175 |

TEST 995 RUN 20

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 297 | .0553 | 1.1144 | -1.4318 | -.5647 | 1.1129 | .1897 | -.3882 | 1.1146 | -1.5703 | -.5788 | 1.8000 |
| 298 | -1.7919 | .9808 | -1.5915 | -.6370 | 1.0363 | .1677 | -.4368 | .9812 | -1.5915 | -.6353 | 1.8000 |
| 299 | .0700 | 1.1464 | -1.5163 | -.5882 | 1.1443 | .1932 | -.3936 | 1.1464 | -1.5668 | -.5922 | 1.8000 |
| 300 | 1.9566 | 1.3415 | -1.4991 | -.5639 | 1.2820 | .2273 | -.3673 | 1.3421 | -1.5317 | -.5659 | 1.8000 |
| 301 | 3.8592 | 1.5620 | -1.4974 | -.5460 | 1.4413 | .2754 | -.3437 | 1.5598 | -1.4806 | -.5423 | 1.8000 |
| 302 | 5.8855 | 1.7688 | -1.4504 | -.5121 | 1.5840 | .3263 | -.3089 | 1.7645 | -1.4244 | -.5074 | 1.8000 |
| 303 | 7.8720 | 1.9143 | -1.3469 | -.4659 | 1.6727 | .3849 | -.2669 | 1.9137 | -1.3585 | -.4655 | 1.8000 |
| 304 | 9.9152 | 2.1609 | -1.3146 | -.4612 | 1.8438 | .4837 | -.2534 | 2.1468 | -1.2500 | -.4519 | 1.8000 |
| 305 | 12.0397 | 2.3340 | -1.2014 | -.4225 | 1.9515 | .5759 | -.2157 | 2.3186 | -1.1454 | -.4142 | 1.8000 |
| 306 | 14.1405 | 2.4806 | -1.0965 | -.3778 | 2.0303 | .6746 | -.1698 | 2.4603 | -1.0321 | -.3684 | 1.8000 |
| 307 | 16.1846 | 2.6677 | -.9781 | -.3753 | 2.1473 | .7985 | -.1647 | 2.6379 | -.8918 | -.3633 | 1.8000 |
| 308 | 18.1396 | 2.8790 | -.8584 | -.3632 | 2.2870 | .9319 | -.1487 | 2.8349 | -.7406 | -.3473 | 1.8000 |
| 309 | 20.2131 | 3.0013 | -.6679 | -.2956 | 2.3631 | 1.0492 | -.0872 | 2.9712 | -.6024 | -.2858 | 1.8000 |
| 310 | 21.4847 | 3.1169 | -.5771 | -.2661 | 2.4374 | 1.1329 | -.0568 | 3.0820 | -.5048 | -.2554 | 1.8000 |
| 311 | .0529 | 1.1826 | -1.5878 | -.6138 | 1.1810 | .1977 | -.4104 | 1.1826 | -1.5623 | -.6089 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 23

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 334 | .166 | 1955 | .04 | -.00 | 100863 | .5785 | .1237 | -.1518 | -.0084 | .0007 | .0047 |
| 335 | .167 | 1968 | -1.83 | -.00 | 100850 | .4412 | .1281 | -.1851 | -.0005 | .0006 | .0020 |
| 336 | .167 | 1965 | .08 | -.00 | 100860 | .5849 | .1273 | -.1501 | -.0005 | .0016 | .0152 |
| 337 | .167 | 1962 | 1.97 | -.00 | 100864 | .7220 | .1204 | -.1198 | -.0009 | .0005 | .0023 |
| 338 | .168 | 1988 | 3.90 | -.00 | 100884 | .8412 | .1063 | -.0861 | -.0011 | -.0001 | .0053 |
| 339 | .168 | 1985 | 5.89 | .00 | 100833 | 1.0036 | .1003 | -.0504 | -.0004 | -.0003 | -.0030 |
| 340 | .166 | 1939 | 7.94 | -.00 | 100860 | 1.1336 | .0958 | -.0187 | -.0003 | .0004 | .0059 |
| 341 | .165 | 1912 | 10.00 | -.00 | 100907 | 1.2562 | .0962 | .0107 | -.0002 | .0005 | .0065 |
| 342 | .166 | 1949 | 12.11 | -.00 | 100853 | 1.3687 | .0945 | .0524 | .0001 | .0005 | .0058 |
| 343 | .165 | 1932 | 14.13 | -.00 | 100880 | 1.4558 | .1009 | .0957 | -.0003 | .0005 | .0044 |
| 344 | .165 | 1919 | 16.17 | -.00 | 100887 | 1.5543 | .1131 | .1182 | -.0010 | .0002 | .0062 |
| 345 | .164 | 1892 | 18.17 | -.00 | 100914 | 1.7056 | .1231 | .1443 | .0004 | .0002 | .0067 |
| 346 | .163 | 1879 | 20.15 | -.00 | 100927 | 1.8396 | .1204 | .1879 | .0009 | .0009 | .0071 |
| 347 | .166 | 1945 | 21.50 | -.00 | 100901 | 1.8850 | .1157 | .2150 | .0010 | .0013 | .0084 |
| 348 | .166 | 1949 | .05 | -.00 | 100857 | .5853 | .1389 | -.1504 | -.0008 | .0007 | .0025 |

TEST 995 RUN 23

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 334 | .0372 | 0.0000 | .9663 | 39.2483 | 0.0000 | 0.0000 | 0.0000 | .0333 | .0099 |
| 335 | -1.8274 | 0.0000 | .9657 | 39.2508 | 0.0000 | 0.0000 | 0.0000 | .0336 | .0099 |
| 336 | .0795 | 0.0000 | .9676 | 39.2427 | 0.0000 | 0.0000 | 0.0000 | .0319 | .0099 |
| 337 | 1.9748 | 0.0000 | .9671 | 39.2447 | 0.0000 | 0.0000 | 0.0000 | .0324 | .0097 |
| 338 | 3.8990 | 0.0000 | .9664 | 39.2478 | 0.0000 | 0.0000 | 0.0000 | .0326 | .0097 |
| 339 | 5.8930 | 0.0000 | .9660 | 39.2498 | 0.0000 | 0.0000 | 0.0000 | .0330 | .0095 |
| 340 | 7.9409 | 0.0000 | .9661 | 39.2491 | 0.0000 | 0.0000 | 0.0000 | .0335 | .0095 |
| 341 | 9.9994 | 0.0000 | .9666 | 39.2467 | 0.0000 | 0.0000 | 0.0000 | .0332 | .0095 |
| 342 | 12.1074 | 0.0000 | .9647 | 39.2554 | 0.0000 | 0.0000 | 0.0000 | .0342 | .0097 |
| 343 | 14.1271 | 0.0000 | .9655 | 39.2519 | 0.0000 | 0.0000 | 0.0000 | .0335 | .0099 |
| 344 | 16.1747 | 0.0000 | .9631 | 39.2624 | 0.0000 | 0.0000 | 0.0000 | .0357 | .0102 |
| 345 | 18.1678 | 0.0000 | .9610 | 39.2715 | 0.0000 | 0.0000 | 0.0000 | .0378 | .0107 |
| 346 | 20.1489 | 0.0000 | .9593 | 39.2791 | 0.0000 | 0.0000 | 0.0000 | .0393 | .0112 |
| 347 | 21.4959 | 0.0000 | .9577 | 39.2862 | 0.0000 | 0.0000 | 0.0000 | .0391 | .0116 |
| 348 | .0491 | 0.0000 | .9674 | 39.2432 | 0.0000 | 0.0000 | 0.0000 | .0323 | .0099 |

TEST 995 RUN 23

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 334 | .0372 | .5784 | .1241 | -.1518 | .5784 | .0809 | -.1518 | .5784 | .1142 | -.1518 | 1.0000 |
| 335 | -1.8274 | .4451 | .1140 | -.1851 | .4451 | .0704 | -.1851 | .4451 | .1041 | -.1851 | 1.0000 |
| 336 | .0795 | .5847 | .1281 | -.1501 | .5847 | .0863 | -.1501 | .5847 | .1182 | -.1501 | 1.0000 |
| 337 | 1.9748 | .7174 | .1453 | -.1198 | .7174 | .1031 | -.1198 | .7174 | .1355 | -.1198 | 1.0000 |
| 338 | 3.8990 | .8320 | .1632 | -.0861 | .8320 | .1210 | -.0861 | .8320 | .1536 | -.0861 | 1.0000 |
| 339 | 5.8930 | .9880 | .2028 | -.0504 | .9880 | .1603 | -.0504 | .9880 | .1933 | -.0504 | 1.0000 |
| 340 | 7.9409 | 1.1095 | .2515 | -.0187 | 1.1095 | .2086 | -.0187 | 1.1095 | .2420 | -.0187 | 1.0000 |
| 341 | 9.9994 | 1.2204 | .3129 | .0107 | 1.2204 | .2702 | .0107 | 1.2204 | .3034 | .0107 | 1.0000 |
| 342 | 12.1074 | 1.3184 | .3795 | .0524 | 1.3184 | .3356 | .0524 | 1.3184 | .3698 | .0524 | 1.0000 |
| 343 | 14.1271 | 1.3871 | .4532 | .0957 | 1.3871 | .4098 | .0957 | 1.3871 | .4433 | .0957 | 1.0000 |
| 344 | 16.1747 | 1.4613 | .5416 | .1182 | 1.4613 | .4957 | .1182 | 1.4613 | .5315 | .1182 | 1.0000 |
| 345 | 18.1678 | 1.5822 | .6487 | .1443 | 1.5822 | .6002 | .1443 | 1.5822 | .6380 | .1443 | 1.0000 |
| 346 | 20.1489 | 1.6855 | .7467 | .1879 | 1.6855 | .6961 | .1879 | 1.6855 | .7355 | .1879 | 1.0000 |
| 347 | 21.4959 | 1.7115 | .7984 | .2150 | 1.7115 | .7477 | .2150 | 1.7115 | .7868 | .2150 | 1.0000 |
| 348 | .0491 | .5852 | .1394 | -.1504 | .5852 | .0973 | -.1504 | .5852 | .1295 | -.1504 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 24

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 349 | .168 | 1992 | .04 | -.00 | 100850 | .5805 | .1374 | -.1494 | -.0002 | .0007 | .0022 |
| 350 | .168 | 1932 | .07 | -.00 | 100860 | 1.2199 | -.6814 | -.6079 | .0013 | -.0026 | .0135 |
| 351 | .169 | 2005 | -1.80 | -.00 | 100840 | 1.0874 | -.6729 | -.6346 | .0013 | -.0028 | .0118 |
| 352 | .168 | 1982 | .08 | -.00 | 100867 | 1.2425 | -.6864 | -.6118 | .0009 | -.0028 | .0124 |
| 353 | .167 | 1968 | 1.97 | -.00 | 100881 | 1.3912 | -.7021 | -.5875 | .0011 | -.0027 | .0111 |
| 354 | .168 | 1982 | 3.96 | -.00 | 100877 | 1.5312 | -.7134 | -.5549 | .0009 | -.0035 | .0151 |
| 355 | .169 | 2005 | 5.96 | -.00 | 100847 | 1.6662 | -.6860 | -.4957 | .0018 | -.0028 | .0147 |
| 356 | .169 | 2005 | 7.95 | -.00 | 100847 | 1.8217 | -.6954 | -.4751 | .0012 | -.0029 | .0110 |
| 357 | .167 | 1972 | 10.00 | -.00 | 100881 | 1.9877 | -.7078 | -.4664 | .0015 | -.0024 | .0127 |
| 358 | .166 | 1939 | 12.15 | -.00 | 100921 | 2.1419 | -.7239 | -.4414 | .0018 | -.0023 | .0146 |
| 359 | .165 | 1932 | 14.21 | -.00 | 100921 | 2.2823 | -.7268 | -.4096 | .0017 | -.0023 | .0106 |
| 360 | .165 | 1922 | 16.16 | -.00 | 100931 | 2.4732 | -.7268 | -.4241 | -.0001 | -.0031 | .0130 |
| 361 | .164 | 1909 | 18.18 | -.00 | 100948 | 2.6442 | -.7334 | -.3950 | .0015 | -.0032 | .0173 |
| 362 | .166 | 1939 | 20.16 | -.00 | 100917 | 2.7724 | -.7260 | -.3358 | .0020 | -.0024 | .0154 |
| 363 | .165 | 1929 | 21.45 | -.00 | 100931 | 2.8747 | -.7309 | -.3019 | .0022 | -.0019 | .0182 |
| 364 | .166 | 1942 | .08 | -.00 | 100921 | 1.2563 | -.7043 | -.6240 | .0013 | -.0027 | .0126 |

TEST 995 RUN 24

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 349 | .0426 | 0.0000 | .9661 | 39.2493 | 0.0000 | 0.0000 | 0.0000 | .0329 | .0086 |
| 350 | .0656 | 21.7075 | 1.9964 | 34.7160 | 1.0540 | 1.0779 | 0.0000 | -.9717 | .0097 |
| 351 | -1.8000 | 21.7067 | 1.9955 | 34.7196 | 1.0429 | 1.0666 | 0.0000 | -.9591 | .0099 |
| 352 | .0808 | 21.6767 | 1.9939 | 34.7269 | 1.0547 | 1.0787 | 0.0000 | -.9693 | .0102 |
| 353 | 1.9748 | 21.7002 | 1.9994 | 34.7028 | 1.0658 | 1.0900 | 0.0000 | -.9808 | .0104 |
| 354 | 3.9612 | 21.7220 | 2.0025 | 34.6889 | 1.0607 | 1.0848 | 0.0000 | -.9755 | .0106 |
| 355 | 5.9625 | 21.2125 | 1.9601 | 34.8755 | 1.0133 | 1.0363 | 0.0000 | -.9204 | .0114 |
| 356 | 7.9495 | 21.2913 | 1.9692 | 34.8357 | 1.0213 | 1.0445 | 0.0000 | -.9252 | .0117 |
| 357 | 9.9956 | 21.2925 | 1.9726 | 34.8205 | 1.0405 | 1.0642 | 0.0000 | -.9390 | .0120 |
| 358 | 12.1466 | 21.3359 | 1.9718 | 34.8241 | 1.0602 | 1.0843 | 0.0000 | -.9476 | .0122 |
| 359 | 14.2098 | 21.3639 | 1.9758 | 34.8065 | 1.0667 | 1.0909 | 0.0000 | -.9467 | .0123 |
| 360 | 16.1568 | 21.3839 | 1.9787 | 34.7935 | 1.0745 | 1.0989 | 0.0000 | -.9458 | .0124 |
| 361 | 18.1833 | 21.3734 | 1.9853 | 34.7645 | 1.0860 | 1.1106 | 0.0000 | -.9485 | .0124 |
| 362 | 20.1577 | 21.4554 | 1.9879 | 34.7532 | 1.0736 | 1.0981 | 0.0000 | -.9250 | .0123 |
| 363 | 21.4521 | 21.4276 | 1.9857 | 34.7631 | 1.0774 | 1.1019 | 0.0000 | -.9198 | .0123 |
| 364 | .0755 | 21.5575 | 1.9997 | 34.7011 | 1.0832 | 1.1078 | 0.0000 | -.9955 | .0138 |

TEST 995 RUN 24

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 349 | .0426 | .5804 | .1378 | -.1494 | .5804 | .0963 | -.1494 | .5804 | .1292 | -.1494 | 1.0000 |
| 350 | .0656 | 1.2206 | -.6800 | -.6079 | 1.2194 | .3643 | -.4890 | 1.2208 | -.8090 | -.6213 | 1.2000 |
| 351 | -1.8000 | 1.0657 | -.7068 | -.6346 | 1.0985 | .3257 | -.5169 | 1.0616 | -.8470 | -.6493 | 1.2000 |
| 352 | .0808 | 1.2435 | -.6846 | -.6118 | 1.2420 | .3599 | -.4928 | 1.2437 | -.8135 | -.6252 | 1.2000 |
| 353 | 1.9748 | 1.4145 | -.6538 | -.5875 | 1.3778 | .4010 | -.4672 | 1.4182 | -.7716 | -.5996 | 1.2000 |
| 354 | 3.9612 | 1.5768 | -.6059 | -.5549 | 1.5036 | .4417 | -.4353 | 1.5846 | -.7289 | -.5676 | 1.2000 |
| 355 | 5.9625 | 1.7285 | -.5092 | -.4957 | 1.6232 | .4872 | -.3814 | 1.7451 | -.6798 | -.5138 | 1.2000 |
| 356 | 7.9495 | 1.9004 | -.4368 | -.4751 | 1.7592 | .5630 | -.3599 | 1.9214 | -.5991 | -.4923 | 1.2000 |
| 357 | 9.9956 | 2.0804 | -.3521 | -.4664 | 1.8998 | .6607 | -.3498 | 2.1834 | -.4948 | -.4814 | 1.2000 |
| 358 | 12.1466 | 2.2463 | -.2570 | -.4414 | 2.0232 | .7672 | -.3218 | 2.2701 | -.3798 | -.4542 | 1.2000 |
| 359 | 14.2098 | 2.3909 | -.1444 | -.4096 | 2.1291 | .8774 | -.2892 | 2.4171 | -.2600 | -.4216 | 1.2000 |
| 360 | 16.1568 | 2.5778 | -.0098 | -.4241 | 2.2788 | 1.0098 | -.3029 | 2.6053 | -.1172 | -.4352 | 1.2000 |
| 361 | 18.1833 | 2.7410 | .1284 | -.3950 | 2.4021 | 1.1477 | -.2725 | 2.7682 | .0329 | -.4049 | 1.2000 |
| 362 | 20.1577 | 2.8527 | .2739 | -.3358 | 2.4827 | 1.2695 | -.2146 | 2.8871 | .1680 | -.3470 | 1.2000 |
| 363 | 21.4521 | 2.9428 | .3711 | -.3019 | 2.5488 | 1.3615 | -.1804 | 2.9779 | .2695 | -.3128 | 1.2000 |
| 364 | .0755 | 1.2573 | -.7026 | -.6240 | 1.2558 | .3668 | -.5018 | 1.2574 | -.8065 | -.6342 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 25

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 365 | .166 | 1959 | .07 | -.00 | 100928 | 1.4054 | -1.0959 | -.7724 | .0028 | -.0027 | .0089 |
| 366 | .167 | 1962 | -1.77 | .00 | 100931 | 1.2624 | -1.0992 | -.8022 | .0019 | -.0025 | .0022 |
| 367 | .170 | 2031 | .10 | -.00 | 100844 | 1.3901 | -1.0654 | -.7568 | .0026 | -.0026 | .0085 |
| 368 | .168 | 2005 | 1.96 | -.00 | 100884 | 1.5393 | -1.0923 | -.7360 | .0031 | -.0025 | .0105 |
| 369 | .167 | 1959 | 3.95 | -.00 | 100924 | 1.7065 | -1.1377 | -.7208 | .0027 | -.0032 | .0106 |
| 370 | .166 | 1952 | 5.94 | .00 | 100935 | 1.8549 | -1.1289 | -.6740 | .0025 | -.0036 | .0059 |
| 371 | .166 | 1952 | 7.94 | -.00 | 100938 | 2.0024 | -1.1264 | -.6429 | .0029 | -.0025 | .0113 |
| 372 | .166 | 1952 | 10.01 | -.00 | 100938 | 2.1323 | -1.1179 | -.6178 | .0035 | -.0022 | .0104 |
| 373 | .167 | 1968 | 12.05 | -.00 | 100941 | 2.2557 | -1.1125 | -.5808 | .0037 | -.0020 | .0120 |
| 374 | .168 | 1988 | 14.22 | -.00 | 100918 | 2.3847 | -1.1091 | -.5309 | .0047 | -.0017 | .0102 |
| 375 | .168 | 2005 | 16.16 | -.00 | 100901 | 2.5565 | -1.0994 | -.5294 | .0035 | -.0019 | .0113 |
| 376 | .167 | 1962 | 18.18 | -.00 | 100941 | 2.7721 | -1.1282 | -.5206 | .0055 | -.0015 | .0076 |
| 377 | .166 | 1959 | 20.20 | -.00 | 100962 | 2.8806 | -1.1363 | -.4682 | .0057 | -.0013 | .0093 |
| 378 | .166 | 1959 | 21.54 | -.00 | 100962 | 2.9806 | -1.1507 | -.4367 | .0058 | -.0009 | .0087 |
| 379 | .166 | 1949 | .08 | -.00 | 100958 | 1.4304 | -1.1274 | -.7863 | .0028 | -.0031 | .0101 |

TEST 995 RUN 25

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 365 | .0732 | 26.5914 | 2.4765 | 32.6036 | 1.4965 | 1.5305 | 0.0000 | -1.4579 | .0142 |
| 366 | -1.7707 | 26.6710 | 2.4808 | 32.5843 | 1.5001 | 1.5342 | 0.0000 | -1.4591 | .0144 |
| 367 | .1028 | 26.7600 | 2.4882 | 32.5520 | 1.4552 | 1.4883 | 0.0000 | -1.4157 | .0141 |
| 368 | 1.9602 | 26.8616 | 2.4951 | 32.5214 | 1.4825 | 1.5162 | 0.0000 | -1.4408 | .0144 |
| 369 | 3.9486 | 26.8788 | 2.4962 | 32.5167 | 1.5186 | 1.5531 | 0.0000 | -1.4738 | .0149 |
| 370 | 5.9400 | 26.5474 | 2.4666 | 32.6468 | 1.4981 | 1.5322 | 0.0000 | -1.4454 | .0150 |
| 371 | 7.9405 | 26.4661 | 2.4600 | 32.6761 | 1.4913 | 1.5252 | 0.0000 | -1.4328 | .0150 |
| 372 | 10.0066 | 26.4021 | 2.4515 | 32.7132 | 1.4850 | 1.5187 | 0.0000 | -1.4164 | .0151 |
| 373 | 12.0542 | 26.3904 | 2.4496 | 32.7216 | 1.4715 | 1.5050 | 0.0000 | -1.3930 | .0150 |
| 374 | 14.2193 | 26.4733 | 2.4607 | 32.6731 | 1.4655 | 1.4989 | 0.0000 | -1.3771 | .0149 |
| 375 | 16.1643 | 26.5198 | 2.4663 | 32.6481 | 1.4569 | 1.4900 | 0.0000 | -1.3582 | .0147 |
| 376 | 18.1808 | 26.5824 | 2.4673 | 32.6438 | 1.4928 | 1.5267 | 0.0000 | -1.3744 | .0150 |
| 377 | 20.1953 | 26.6364 | 2.4719 | 32.6236 | 1.5001 | 1.5342 | 0.0000 | -1.3645 | .0150 |
| 378 | 21.5449 | 26.7904 | 2.4869 | 32.5575 | 1.5131 | 1.5475 | 0.0000 | -1.3661 | .0152 |
| 379 | .0786 | 26.9520 | 2.5019 | 32.4918 | 1.5346 | 1.5695 | 0.0000 | -1.4909 | .0170 |

TEST 995 RUN 25

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 365 | .0732 | 1.4068 | -1.0941 | -.7724 | 1.4049 | .3882 | -.6035 | 1.4068 | -1.0785 | -.7690 | 1.5000 |
| 366 | -1.7707 | 1.2278 | -1.1377 | -.8022 | 1.2742 | .3473 | -.6329 | 1.2288 | -1.1187 | -.7984 | 1.5000 |
| 367 | .1028 | 1.3920 | -1.0629 | -.7568 | 1.3894 | .3782 | -.5926 | 1.3920 | -1.0885 | -.7581 | 1.5000 |
| 368 | 1.9602 | 1.5757 | -1.0390 | -.7360 | 1.5250 | .4283 | -.5688 | 1.5752 | -1.0375 | -.7342 | 1.5000 |
| 369 | 3.9486 | 1.7807 | -1.0175 | -.7208 | 1.6762 | .4826 | -.5495 | 1.7772 | -.9806 | -.7149 | 1.5000 |
| 370 | 5.9400 | 1.9617 | -.9309 | -.6740 | 1.8067 | .5442 | -.5049 | 1.9585 | -.9146 | -.6704 | 1.5000 |
| 371 | 7.9405 | 2.1388 | -.8390 | -.6429 | 1.9328 | .6230 | -.4746 | 2.1354 | -.8297 | -.6401 | 1.5000 |
| 372 | 10.0066 | 2.2941 | -.7304 | -.6178 | 2.0361 | .7169 | -.4503 | 2.2909 | -.7275 | -.6157 | 1.5000 |
| 373 | 12.0542 | 2.4382 | -.6169 | -.5808 | 2.1309 | .8072 | -.4148 | 2.4372 | -.6271 | -.5802 | 1.5000 |
| 374 | 14.2193 | 2.5841 | -.4894 | -.5309 | 2.2241 | .9164 | -.3656 | 2.5844 | -.5053 | -.5310 | 1.5000 |
| 375 | 16.1643 | 2.7615 | -.3443 | -.5294 | 2.3559 | 1.0403 | -.3650 | 2.7642 | -.3684 | -.5305 | 1.5000 |
| 376 | 18.1808 | 2.9857 | -.2069 | -.5206 | 2.5200 | 1.1963 | -.3522 | 2.9776 | -.1972 | -.5177 | 1.5000 |
| 377 | 20.1953 | 3.0958 | -.0720 | -.4682 | 2.5779 | 1.3209 | -.2990 | 3.0842 | -.0556 | -.4644 | 1.5000 |
| 378 | 21.5449 | 3.1949 | .0243 | -.4367 | 2.6393 | 1.4164 | -.2660 | 3.1779 | .0522 | -.4314 | 1.5000 |
| 379 | .0786 | 1.4320 | -1.1254 | -.7863 | 1.4299 | .3922 | -.6132 | 1.4319 | -1.0745 | -.7786 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 26

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 380 | .167 | 1975 | .08 | .00 | 100928 | 1.4753 | -1.2224 | -.8343 | .0030 | -.0028 | .0067 |
| 381 | .166 | 1945 | -1.77 | .00 | 100955 | 1.3366 | -1.2440 | -.8756 | .0026 | -.0030 | .0067 |
| 382 | .166 | 1949 | .07 | .00 | 100951 | 1.4886 | -1.2430 | -.8439 | .0031 | -.0030 | .0079 |
| 383 | .167 | 1978 | 1.91 | .00 | 100942 | 1.6080 | -1.2302 | -.8045 | .0026 | -.0031 | .0076 |
| 384 | .165 | 1919 | 3.86 | .00 | 100985 | 1.7853 | -1.2834 | -.7960 | .0027 | -.0036 | .0087 |
| 385 | .164 | 1893 | 5.90 | -.00 | 101015 | 1.9537 | -1.3172 | -.7649 | .0039 | -.0051 | .0315 |
| 386 | .166 | 1939 | 7.88 | .00 | 100968 | 2.0826 | -1.2871 | -.7189 | .0033 | -.0030 | .0069 |
| 387 | .166 | 1952 | 9.99 | -.00 | 100968 | 2.2113 | -1.2791 | -.6906 | .0034 | -.0023 | .0097 |
| 388 | .164 | 1902 | 12.05 | -.00 | 101019 | 2.3711 | -1.3197 | -.6710 | .0035 | -.0024 | .0095 |
| 389 | .163 | 1873 | 14.18 | -.00 | 101056 | 2.4978 | -1.3446 | -.6346 | .0041 | -.0024 | .0091 |
| 390 | .161 | 1836 | 16.08 | .00 | 101082 | 2.7001 | -1.3665 | -.6513 | .0027 | -.0024 | .0059 |
| 391 | .164 | 1896 | 18.17 | -.00 | 101059 | 2.8033 | -1.3254 | -.6020 | .0050 | -.0023 | .0096 |
| 392 | .163 | 1873 | 20.12 | -.00 | 101049 | 2.9896 | -1.3372 | -.5569 | .0055 | -.0017 | .0091 |
| 393 | .163 | 1876 | 21.51 | -.00 | 101056 | 3.0730 | -1.3422 | -.5193 | .0051 | -.0014 | .0074 |
| 394 | .165 | 1935 | .09 | -.00 | 100999 | 1.4891 | -1.2549 | -.8502 | .0036 | -.0010 | .0281 |
| 395 | .168 | 1988 | .04 | .00 | 100999 | .5704 | .1211 | -.1461 | -.0005 | -.0008 | -.0047 |

TEST 995 RUN 26

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 380 | .0781 | 28.4637 | 2.6416 | 31.8769 | 1.6403 | 1.6776 | 0.0000 | -1.6074 | .0171 |
| 381 | -1.7744 | 28.4950 | 2.6427 | 31.8722 | 1.6680 | 1.7059 | 0.0000 | -1.6327 | .0179 |
| 382 | .0662 | 28.4914 | 2.6390 | 31.8886 | 1.6634 | 1.7012 | 0.0000 | -1.6269 | .0180 |
| 383 | 1.9142 | 28.4886 | 2.6430 | 31.8707 | 1.6393 | 1.6766 | 0.0000 | -1.6054 | .0179 |
| 384 | 3.8591 | 28.5025 | 2.6448 | 31.8627 | 1.6916 | 1.7301 | 0.0000 | -1.6549 | .0185 |
| 385 | 5.9049 | 28.4923 | 2.6418 | 31.8760 | 1.7141 | 1.7530 | 0.0000 | -1.6703 | .0188 |
| 386 | 7.8767 | 28.5059 | 2.6440 | 31.8666 | 1.6731 | 1.7112 | 0.0000 | -1.6258 | .0184 |
| 387 | 9.9851 | 28.5002 | 2.6395 | 31.8863 | 1.6617 | 1.6995 | 0.0000 | -1.6004 | .0183 |
| 388 | 12.0516 | 28.4941 | 2.6406 | 31.8813 | 1.7055 | 1.7443 | 0.0000 | -1.6325 | .0187 |
| 389 | 14.1758 | 28.4979 | 2.6393 | 31.8869 | 1.7315 | 1.7709 | 0.0000 | -1.6435 | .0189 |
| 390 | 16.0839 | 28.5100 | 2.6388 | 31.8894 | 1.7653 | 1.8054 | 0.0000 | -1.6608 | .0192 |
| 391 | 18.1745 | 28.5339 | 2.6437 | 31.8675 | 1.7141 | 1.7531 | 0.0000 | -1.5952 | .0186 |
| 392 | 20.1236 | 28.5120 | 2.6422 | 31.8743 | 1.7332 | 1.7726 | 0.0000 | -1.5943 | .0186 |
| 393 | 21.5134 | 28.5109 | 2.6373 | 31.8960 | 1.7286 | 1.7679 | 0.0000 | -1.5722 | .0185 |
| 394 | .0863 | 28.5228 | 2.6417 | 31.8763 | 1.6777 | 1.7159 | 0.0000 | -1.6416 | .0196 |
| 395 | .0375 | .0578 | .9478 | 39.3297 | 0.0000 | 0.0000 | 0.0000 | .0508 | .0199 |

TEST 995 RUN 26

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 380 | .0781 | 1.4770 | -1.2204 | -.8343 | 1.4747 | .4028 | -.6492 | 1.4771 | -1.3572 | -.8478 | 1.8000 |
| 381 | -1.7744 | 1.2974 | -1.2848 | -.8756 | 1.3491 | .3645 | -.6875 | 1.2946 | -1.3947 | -.8860 | 1.8000 |
| 382 | .0662 | 1.4900 | -1.2413 | -.8439 | 1.4881 | .4040 | -.6562 | 1.4902 | -1.3560 | -.8548 | 1.8000 |
| 383 | 1.9142 | 1.6482 | -1.1758 | -.8045 | 1.5934 | .4448 | -.6195 | 1.6522 | -1.3143 | -.8181 | 1.8000 |
| 384 | 3.8591 | 1.8676 | -1.1603 | -.7960 | 1.7537 | .5089 | -.6052 | 1.8722 | -1.2471 | -.8038 | 1.8000 |
| 385 | 5.9049 | 2.0789 | -1.1092 | -.7649 | 1.9025 | .5770 | -.5716 | 2.0836 | -1.1737 | -.7701 | 1.8000 |
| 386 | 7.8767 | 2.2393 | -.9896 | -.7189 | 2.0100 | .6494 | -.5302 | 2.2512 | -1.0940 | -.7287 | 1.8000 |
| 387 | 9.9851 | 2.3996 | -.8763 | -.6906 | 2.1115 | .7420 | -.5031 | 2.4167 | -.9914 | -.7017 | 1.8000 |
| 388 | 12.0516 | 2.5944 | -.7955 | -.6710 | 2.2383 | .8537 | -.4786 | 2.6058 | -.8676 | -.6771 | 1.8000 |
| 389 | 14.1758 | 2.7510 | -.6919 | -.6346 | 2.3269 | .9679 | -.4393 | 2.7580 | -.7385 | -.6378 | 1.8000 |
| 390 | 16.0839 | 2.9730 | -.5650 | -.6513 | 2.4840 | 1.1120 | -.4521 | 2.9715 | -.5791 | -.6507 | 1.8000 |
| 391 | 18.1745 | 3.0769 | -.3849 | -.6020 | 2.5422 | 1.2251 | -.4086 | 3.0912 | -.4471 | -.6072 | 1.8000 |
| 392 | 20.1236 | 3.2672 | -.2270 | -.5569 | 2.6709 | 1.3817 | -.3614 | 3.2764 | -.2708 | -.5599 | 1.8000 |
| 393 | 21.5134 | 3.3511 | -.1218 | -.5193 | 2.7172 | 1.4678 | -.3243 | 3.3626 | -.1696 | -.5229 | 1.8000 |
| 394 | .0863 | 1.4910 | -1.2527 | -.8502 | 1.4885 | .4053 | -.6609 | 1.4911 | -1.3547 | -.8595 | 1.8000 |
| 395 | .0375 | .5704 | .1214 | -.1461 | .5704 | .0507 | -.1461 | .5704 | .1016 | -.1461 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 28

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 410 | .166 | 1952 | .04 | -.00 | 101050 | .7373 | .1245 | -.2220 | .0007 | .0012 | .0078 |
| 411 | .166 | 1952 | -1.81 | -.00 | 101050 | .6161 | .1329 | -.2566 | .0008 | .0008 | .0007 |
| 412 | .166 | 1959 | .04 | -.00 | 101043 | .7348 | .1259 | -.2204 | .0006 | .0011 | .0055 |
| 413 | .165 | 1935 | 1.95 | -.00 | 101063 | .8527 | .1175 | -.1867 | .0012 | .0011 | .0042 |
| 414 | .165 | 1922 | 3.92 | -.00 | 101076 | 1.0130 | .1057 | -.1533 | .0041 | .0003 | .0052 |
| 415 | .165 | 1932 | 5.90 | -.00 | 101063 | 1.1583 | .0979 | -.1176 | .0007 | .0009 | .0043 |
| 416 | .166 | 1949 | 7.88 | .00 | 101046 | 1.2659 | .0992 | -.0731 | -.0010 | .0021 | -.0172 |
| 417 | .164 | 1909 | 9.96 | -.00 | 101086 | 1.3573 | .1018 | -.0356 | .0001 | .0006 | .0033 |
| 418 | .167 | 1965 | 12.01 | -.00 | 101063 | 1.4118 | .1023 | .0135 | .0003 | .0005 | .0039 |
| 419 | .165 | 1932 | 14.17 | .00 | 101060 | 1.5230 | .1104 | .0631 | -.0013 | .0006 | -.0003 |
| 420 | .165 | 1922 | 16.13 | -.00 | 101070 | 1.5962 | .1255 | .0847 | -.0029 | .0003 | .0041 |
| 421 | .166 | 1939 | 18.19 | -.00 | 101094 | 1.7087 | .1299 | .1114 | .0013 | .0001 | .0056 |
| 422 | .167 | 1962 | 20.11 | -.00 | 101036 | 1.8099 | .1257 | .1587 | .0014 | .0012 | .0058 |
| 423 | .165 | 1922 | 21.46 | -.00 | 101076 | 1.9156 | .1258 | .1990 | .0018 | .0018 | .0023 |
| 424 | .166 | 1945 | .07 | -.00 | 101050 | .7280 | .1377 | -.2211 | .0014 | .0016 | .0065 |

TEST 995 RUN 28

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 410 | .0418 | 0.0000 | .9718 | 39.9239 | 0.0000 | 0.0000 | 0.0000 | .0279 | .0099 |
| 411 | -1.8104 | 0.0000 | .9728 | 39.9198 | 0.0000 | 0.0000 | 0.0000 | .0270 | .0099 |
| 412 | .0418 | 0.0000 | .9717 | 39.9246 | 0.0000 | 0.0000 | 0.0000 | .0280 | .0099 |
| 413 | 1.9512 | 0.0000 | .9718 | 39.9239 | 0.0000 | 0.0000 | 0.0000 | .0281 | .0097 |
| 414 | 3.9221 | 0.0000 | .9716 | 39.9249 | 0.0000 | 0.0000 | 0.0000 | .0285 | .0097 |
| 415 | 5.8992 | 0.0000 | .9721 | 39.9228 | 0.0000 | 0.0000 | 0.0000 | .0278 | .0095 |
| 416 | 7.8797 | 0.0000 | .9700 | 39.9320 | 0.0000 | 0.0000 | 0.0000 | .0295 | .0095 |
| 417 | 9.9578 | 0.0000 | .9688 | 39.9375 | 0.0000 | 0.0000 | 0.0000 | .0312 | .0095 |
| 418 | 12.0106 | 0.0000 | .9688 | 39.9375 | 0.0000 | 0.0000 | 0.0000 | .0301 | .0097 |
| 419 | 14.1726 | 0.0000 | .9675 | 39.9431 | 0.0000 | 0.0000 | 0.0000 | .0316 | .0099 |
| 420 | 16.1338 | 0.0000 | .9671 | 39.9446 | 0.0000 | 0.0000 | 0.0000 | .0318 | .0101 |
| 421 | 18.1900 | 0.0000 | .9647 | 39.9552 | 0.0000 | 0.0000 | 0.0000 | .0335 | .0107 |
| 422 | 20.1107 | 0.0000 | .9630 | 39.9628 | 0.0000 | 0.0000 | 0.0000 | .0343 | .0105 |
| 423 | 21.4626 | 0.0000 | .9635 | 39.9607 | 0.0000 | 0.0000 | 0.0000 | .0342 | .0018 |
| 424 | .0665 | 0.0000 | .9732 | 39.9178 | 0.0000 | 0.0000 | 0.0000 | .0266 | .0099 |

TEST 995 RUN 28

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 410 | .0418 | .7372 | .1251 | -.2220 | .7372 | .0872 | -.2220 | .7372 | .1152 | -.2220 | 1.0000 |
| 411 | -1.8104 | .6200 | .1134 | -.2566 | .6200 | .0765 | -.2566 | .6200 | .1035 | -.2566 | 1.0000 |
| 412 | .0418 | .7347 | .1264 | -.2204 | .7347 | .0885 | -.2204 | .7347 | .1165 | -.2204 | 1.0000 |
| 413 | 1.9512 | .8482 | .1465 | -.1867 | .8482 | .1086 | -.1867 | .8482 | .1368 | -.1867 | 1.0000 |
| 414 | 3.9221 | 1.0034 | .1748 | -.1533 | 1.0034 | .1365 | -.1533 | 1.0034 | .1651 | -.1533 | 1.0000 |
| 415 | 5.8992 | 1.1421 | .2165 | -.1176 | 1.1421 | .1791 | -.1176 | 1.1421 | .2069 | -.1176 | 1.0000 |
| 416 | 7.8797 | 1.2404 | .2718 | -.0731 | 1.2404 | .2328 | -.0731 | 1.2404 | .2623 | -.0731 | 1.0000 |
| 417 | 9.9578 | 1.3193 | .3350 | -.0356 | 1.3193 | .2943 | -.0356 | 1.3193 | .3255 | -.0356 | 1.0000 |
| 418 | 12.0106 | 1.3596 | .3939 | .0135 | 1.3596 | .3541 | .0135 | 1.3596 | .3842 | .0135 | 1.0000 |
| 419 | 14.1726 | 1.4496 | .4800 | .0631 | 1.4496 | .4384 | .0631 | 1.4496 | .4701 | .0631 | 1.0000 |
| 420 | 16.1338 | 1.4985 | .5641 | .0847 | 1.4985 | .5222 | .0847 | 1.4985 | .5540 | .0847 | 1.0000 |
| 421 | 18.1900 | 1.5827 | .6568 | .1114 | 1.5827 | .6126 | .1114 | 1.5827 | .6461 | .1114 | 1.0000 |
| 422 | 20.1107 | 1.6564 | .7403 | .1587 | 1.6564 | .6956 | .1587 | 1.6564 | .7299 | .1587 | 1.0000 |
| 423 | 21.4626 | 1.7367 | .8180 | .1990 | 1.7367 | .7819 | .1990 | 1.7367 | .8161 | .1990 | 1.0000 |
| 424 | .0665 | .7279 | .1385 | -.2211 | .7279 | .1020 | -.2211 | .7279 | .1286 | -.2211 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 29

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 425 | .170 | 2038 | .05 | -.00 | 101034 | .7108 | .1318 | -.2086 | .0010 | .0014 | .0063 |
| 426 | .163 | 1879 | .09 | -.00 | 101137 | 1.7227 | -1.2993 | -.9520 | .0063 | -.0009 | .0148 |
| 427 | .165 | 1935 | -1.77 | -.00 | 101087 | 1.5587 | -1.2602 | -.9629 | .0040 | -.0010 | .0117 |
| 428 | .167 | 1978 | .13 | -.00 | 101030 | 1.6804 | -1.2381 | -.9180 | .0038 | -.0008 | .0158 |
| 429 | .167 | 1975 | 1.97 | -.00 | 101030 | 1.8163 | -1.2487 | -.8883 | .0037 | -.0008 | .0158 |
| 430 | .166 | 1949 | 3.95 | -.00 | 101060 | 1.9863 | -1.2809 | -.8625 | .0072 | -.0017 | .0145 |
| 431 | .166 | 1939 | 5.93 | -.00 | 101077 | 2.1368 | -1.2983 | -.8295 | .0033 | -.0010 | .0129 |
| 432 | .166 | 1939 | 7.98 | -.00 | 101070 | 2.2403 | -1.3009 | -.7820 | .0035 | -.0006 | .0147 |
| 433 | .165 | 1929 | 9.99 | -.00 | 101087 | 2.3370 | -1.3081 | -.7462 | .0038 | -.0003 | .0155 |
| 434 | .164 | 1896 | 12.09 | -.00 | 101130 | 2.4485 | -1.3335 | -.7137 | .0041 | -.0002 | .0141 |
| 435 | .164 | 1899 | 14.19 | -.00 | 101110 | 2.5617 | -1.3279 | -.6617 | .0050 | -.0001 | .0135 |
| 436 | .164 | 1896 | 16.18 | -.00 | 101113 | 2.7440 | -1.3198 | -.6715 | .0034 | -.0003 | .0164 |
| 437 | .165 | 1929 | 18.21 | -.00 | 101080 | 2.8859 | -1.2959 | -.6247 | .0048 | -.0000 | .0166 |
| 438 | .165 | 1929 | 20.23 | -.00 | 101090 | 3.0176 | -1.3003 | -.5735 | .0056 | .0003 | .0165 |
| 439 | .166 | 1955 | 21.54 | -.00 | 101070 | 3.0944 | -1.2790 | -.5291 | .0043 | .0009 | .0167 |
| 440 | .164 | 1912 | .11 | -.00 | 101100 | 1.7126 | -1.2835 | -.9419 | .0037 | -.0008 | .0154 |
| 441 | .166 | 1952 | .06 | -.00 | 101063 | .7325 | .1175 | -.2211 | .0013 | .0009 | .0087 |

TEST 995 RUN 29

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 425 | .0492 | 0.0000 | .9733 | 39.9173 | 0.0000 | 0.0000 | 0.0000 | .0253 | .0139 |
| 426 | .0855 | 28.8921 | 2.6663 | 32.4685 | 1.7366 | 1.7760 | 0.0000 | -1.7182 | .0156 |
| 427 | -1.7729 | 28.8428 | 2.6675 | 32.4628 | 1.6864 | 1.7247 | 0.0000 | -1.6580 | .0155 |
| 428 | .1272 | 28.8225 | 2.6725 | 32.4410 | 1.6503 | 1.6879 | 0.0000 | -1.6366 | .0154 |
| 429 | 1.9709 | 28.8161 | 2.6693 | 32.4551 | 1.6532 | 1.6908 | 0.0000 | -1.6352 | .0155 |
| 430 | 3.9493 | 28.8096 | 2.6718 | 32.4442 | 1.6774 | 1.7155 | 0.0000 | -1.6573 | .0161 |
| 431 | 5.9309 | 28.7991 | 2.6715 | 32.4454 | 1.6856 | 1.7239 | 0.0000 | -1.6608 | .0160 |
| 432 | 7.9780 | 28.7968 | 2.6712 | 32.4469 | 1.6854 | 1.7237 | 0.0000 | -1.6532 | .0161 |
| 433 | 9.9852 | 28.7696 | 2.6708 | 32.4487 | 1.6934 | 1.7319 | 0.0000 | -1.6524 | .0162 |
| 434 | 12.0874 | 28.7486 | 2.6687 | 32.4579 | 1.7212 | 1.7603 | 0.0000 | -1.6678 | .0164 |
| 435 | 14.1927 | 28.7661 | 2.6729 | 32.4392 | 1.7221 | 1.7612 | 0.0000 | -1.6545 | .0164 |
| 436 | 16.1770 | 28.7684 | 2.6680 | 32.4607 | 1.7236 | 1.7628 | 0.0000 | -1.6372 | .0164 |
| 437 | 18.2069 | 28.7532 | 2.6726 | 32.4406 | 1.6952 | 1.7337 | 0.0000 | -1.5954 | .0161 |
| 438 | 20.2259 | 28.7734 | 2.6724 | 32.4413 | 1.6958 | 1.7343 | 0.0000 | -1.5760 | .0160 |
| 439 | 21.5375 | 28.7335 | 2.6698 | 32.4530 | 1.6714 | 1.7094 | 0.0000 | -1.5384 | .0158 |
| 440 | .1120 | 28.7174 | 2.6656 | 32.4714 | 1.7072 | 1.7460 | 0.0000 | -1.6873 | .0177 |
| 441 | .0555 | 0.0000 | .9687 | 39.9379 | 0.0000 | 0.0000 | 0.0000 | .0311 | .0180 |

TEST 995 RUN 29

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 425 | .0492 | .7107 | .1324 | -.2086 | .7107 | .0932 | -.2086 | .7107 | .1185 | -.2086 | 1.0000 |
| 426 | .0855 | 1.7246 | -1.2967 | -.9520 | 1.7220 | .4243 | -.7560 | 1.7247 | -1.3357 | -.9546 | 1.8000 |
| 427 | -1.7729 | 1.5189 | -1.3078 | -.9629 | 1.5711 | .3623 | -.7726 | 1.5166 | -1.3969 | -.9712 | 1.8000 |
| 428 | .1272 | 1.6832 | -1.2344 | -.9180 | 1.6795 | .4005 | -.7318 | 1.6834 | -1.3595 | -.9304 | 1.8000 |
| 429 | 1.9709 | 1.8582 | -1.1855 | -.8883 | 1.8013 | .4511 | -.7018 | 1.8618 | -1.3078 | -.9003 | 1.8000 |
| 430 | 3.9493 | 2.0698 | -1.1411 | -.8625 | 1.9543 | .5163 | -.6733 | 2.0755 | -1.2396 | -.8719 | 1.8000 |
| 431 | 5.9309 | 2.2596 | -1.0706 | -.8295 | 2.0854 | .5908 | -.6394 | 2.2672 | -1.1606 | -.8379 | 1.8000 |
| 432 | 7.9780 | 2.3992 | -.9774 | -.7820 | 2.1653 | .6756 | -.5918 | 2.4096 | -1.0673 | -.7904 | 1.8000 |
| 433 | 9.9852 | 2.5284 | -.8831 | -.7462 | 2.2348 | .7685 | -.5552 | 2.5399 | -.9648 | -.7538 | 1.8000 |
| 434 | 12.0874 | 2.6735 | -.7912 | -.7137 | 2.3131 | .8754 | -.5195 | 2.6816 | -.8456 | -.7181 | 1.8000 |
| 435 | 14.1927 | 2.8091 | -.6593 | -.6617 | 2.3869 | .9939 | -.4674 | 2.8184 | -.7124 | -.6660 | 1.8000 |
| 436 | 16.1770 | 3.0031 | -.5031 | -.6715 | 2.5228 | 1.1359 | -.4771 | 3.0132 | -.5544 | -.6756 | 1.8000 |
| 437 | 18.2069 | 3.1463 | -.3293 | -.6247 | 2.6167 | 1.2649 | -.4334 | 3.1666 | -.4070 | -.6320 | 1.8000 |
| 438 | 20.2259 | 3.2810 | -.1769 | -.5735 | 2.6948 | 1.3983 | -.3821 | 3.3032 | -.2532 | -.5807 | 1.8000 |
| 439 | 21.5375 | 3.3479 | -.0537 | -.5291 | 2.7343 | 1.4853 | -.3405 | 3.3804 | -.1519 | -.5391 | 1.8000 |
| 440 | .1120 | 1.7151 | -1.2801 | -.9419 | 1.7117 | .4094 | -.7493 | 1.7152 | -1.3586 | -.9479 | 1.8000 |
| 441 | .0555 | .7324 | .1182 | -.2211 | .7324 | .0691 | -.2211 | .7324 | .1002 | -.2211 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 31

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 466 | .166 | 1942 | .04 | -.00 | 100846 | .6412 | .0952 | -.1961 | -.0001 | .0015 | .0088 |
| 467 | .166 | 1935 | -1.82 | -.00 | 100853 | .5131 | .1037 | -.2299 | -.0002 | .0015 | .0066 |
| 468 | .166 | 1942 | .04 | -.00 | 100846 | .6434 | .0994 | -.1980 | .0001 | .0017 | .0087 |
| 469 | .165 | 1916 | 1.94 | -.00 | 100873 | .7687 | .0917 | -.1622 | .0000 | .0017 | .0101 |
| 470 | .166 | 1949 | 3.90 | -.00 | 100840 | .9174 | .0797 | -.1270 | .0014 | .0008 | .0092 |
| 471 | .165 | 1926 | 5.85 | -.00 | 100863 | 1.0618 | .0725 | -.0910 | .0005 | .0012 | .0063 |
| 472 | .165 | 1929 | 7.91 | -.00 | 100863 | 1.1770 | .0671 | -.0509 | -.0001 | .0014 | .0092 |
| 473 | .164 | 1906 | 9.96 | -.00 | 100890 | 1.2734 | .0709 | -.0111 | -.0006 | .0014 | .0067 |
| 474 | .164 | 1896 | 12.05 | -.00 | 100900 | 1.3653 | .0726 | .0352 | -.0003 | .0007 | .0166 |
| 475 | .165 | 1919 | 14.16 | -.00 | 100887 | 1.4490 | .0814 | .0797 | -.0008 | .0013 | .0082 |
| 476 | .163 | 1886 | 16.08 | .00 | 100910 | 1.5529 | .1013 | .0992 | -.0012 | .0001 | -.0009 |
| 477 | .162 | 1846 | 18.14 | -.00 | 100950 | 1.7155 | .1091 | .1230 | .0011 | .0015 | .0091 |
| 478 | .164 | 1902 | 20.13 | -.00 | 100964 | 1.7629 | .1001 | .1637 | .0014 | .0019 | .0099 |
| 479 | .161 | 1833 | 21.49 | -.00 | 100974 | 1.9046 | .1006 | .2052 | .0015 | .0026 | .0101 |
| 480 | .166 | 1935 | .03 | -.00 | 100867 | .6435 | .1132 | -.1935 | .0005 | .0024 | .0100 |

TEST 995 RUN 31

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 466 | .0367 | 0.0000 | .9705 | 33.8648 | 0.0000 | 0.0000 | 0.0000 | .0293 | .0092 |
| 467 | -1.8152 | 0.0000 | .9716 | 33.8625 | 0.0000 | 0.0000 | 0.0000 | .0284 | .0094 |
| 468 | .0390 | 0.0000 | .9716 | 33.8625 | 0.0000 | 0.0000 | 0.0000 | .0283 | .0092 |
| 469 | 1.9361 | 0.0000 | .9723 | 33.8610 | 0.0000 | 0.0000 | 0.0000 | .0280 | .0091 |
| 470 | 3.8978 | 0.0000 | .9712 | 33.8633 | 0.0000 | 0.0000 | 0.0000 | .0285 | .0090 |
| 471 | 5.8520 | 0.0000 | .9722 | 33.8612 | 0.0000 | 0.0000 | 0.0000 | .0278 | .0089 |
| 472 | 7.9075 | 0.0000 | .9726 | 33.8602 | 0.0000 | 0.0000 | 0.0000 | .0272 | .0089 |
| 473 | 9.9588 | 0.0000 | .9720 | 33.8615 | 0.0000 | 0.0000 | 0.0000 | .0279 | .0094 |
| 474 | 12.0526 | 0.0000 | .9715 | 33.8628 | 0.0000 | 0.0000 | 0.0000 | .0285 | .0099 |
| 475 | 14.1557 | 0.0000 | .9700 | 33.8661 | 0.0000 | 0.0000 | 0.0000 | .0293 | .0106 |
| 476 | 16.0801 | 0.0000 | .9677 | 33.8711 | 0.0000 | 0.0000 | 0.0000 | .0318 | .0103 |
| 477 | 18.1387 | 0.0000 | .9661 | 33.8746 | 0.0000 | 0.0000 | 0.0000 | .0338 | .0108 |
| 478 | 20.1304 | 0.0000 | .9659 | 33.8751 | 0.0000 | 0.0000 | 0.0000 | .0326 | .0113 |
| 479 | 21.4856 | 0.0000 | .9655 | 33.8758 | 0.0000 | 0.0000 | 0.0000 | .0339 | .0115 |
| 480 | .0530 | 0.0000 | .9760 | 33.8529 | 0.0000 | 0.0000 | 0.0000 | .0240 | .0092 |

TEST 995 RUN 31

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 466 | .0367 | .6412 | .0956 | -.1961 | .6412 | .0571 | -.1961 | .6412 | .0864 | -.1961 | 1.0000 |
| 467 | -1.8152 | .5161 | .0874 | -.2299 | .5161 | .0497 | -.2299 | .5161 | .0781 | -.2299 | 1.0000 |
| 468 | .0390 | .6433 | .0998 | -.1980 | .6433 | .0623 | -.1980 | .6433 | .0906 | -.1980 | 1.0000 |
| 469 | 1.9361 | .7652 | .1176 | -.1622 | .7652 | .0806 | -.1622 | .7652 | .1085 | -.1622 | 1.0000 |
| 470 | 3.8978 | .9098 | .1419 | -.1270 | .9098 | .1045 | -.1270 | .9098 | .1329 | -.1270 | 1.0000 |
| 471 | 5.8520 | 1.0488 | .1804 | -.0910 | 1.0488 | .1437 | -.0910 | 1.0488 | .1715 | -.0910 | 1.0000 |
| 472 | 7.9075 | 1.1566 | .2284 | -.0509 | 1.1566 | .1922 | -.0509 | 1.1566 | .2194 | -.0509 | 1.0000 |
| 473 | 9.9588 | 1.2419 | .2901 | -.0111 | 1.2419 | .2528 | -.0111 | 1.2419 | .2807 | -.0111 | 1.0000 |
| 474 | 12.0526 | 1.3200 | .3561 | .0352 | 1.3200 | .3177 | .0352 | 1.3200 | .3462 | .0352 | 1.0000 |
| 475 | 14.1557 | 1.3851 | .4333 | .0797 | 1.3851 | .3934 | .0797 | 1.3851 | .4227 | .0797 | 1.0000 |
| 476 | 16.0801 | 1.4641 | .5275 | .0992 | 1.4641 | .4853 | .0992 | 1.4641 | .5172 | .0992 | 1.0000 |
| 477 | 18.1387 | 1.5962 | .6377 | .1230 | 1.5962 | .5932 | .1230 | 1.5962 | .6269 | .1230 | 1.0000 |
| 478 | 20.1304 | 1.6207 | .7007 | .1637 | 1.6207 | .6566 | .1637 | 1.6207 | .6894 | .1637 | 1.0000 |
| 479 | 21.4856 | 1.7354 | .7912 | .2052 | 1.7354 | .7459 | .2052 | 1.7354 | .7797 | .2052 | 1.0000 |
| 480 | .0530 | .6434 | .1138 | -.1935 | .6434 | .0806 | -.1935 | .6434 | .1046 | -.1935 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 32

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | .166 | 1942 | .05 | -.00 | 100853 | .6460 | .1117 | -.1922 | .0001 | .0023 | .0089 |
| 482 | .167 | 1962 | .08 | -.00 | 100833 | 1.5034 | -1.2773 | -.8506 | .0029 | -.0010 | .0230 |
| 483 | .165 | 1932 | -1.73 | -.00 | 100863 | 1.3730 | -1.2977 | -.8922 | .0031 | -.0013 | .0189 |
| 484 | .166 | 1952 | .12 | -.00 | 100843 | 1.5110 | -1.2869 | -.8555 | .0026 | -.0010 | .0244 |
| 485 | .166 | 1939 | 1.97 | -.00 | 100856 | 1.6556 | -1.3054 | -.8297 | .0026 | -.0009 | .0222 |
| 486 | .165 | 1926 | 3.93 | -.00 | 100870 | 1.8109 | -1.3288 | -.8007 | .0037 | -.0017 | .0241 |
| 487 | .164 | 1906 | 5.91 | -.00 | 100890 | 1.9720 | -1.3555 | -.7699 | .0030 | -.0011 | .0214 |
| 488 | .164 | 1906 | 7.93 | -.00 | 100890 | 2.0897 | -1.3597 | -.7252 | .0032 | -.0010 | .0207 |
| 489 | .167 | 1965 | 10.00 | -.00 | 100830 | 2.1745 | -1.3149 | -.6751 | .0038 | -.0007 | .0271 |
| 490 | .167 | 1968 | 12.13 | -.00 | 100826 | 2.2915 | -1.3137 | -.6352 | .0009 | -.0004 | .0199 |
| 491 | .164 | 1902 | 14.21 | -.00 | 100900 | 2.4299 | -1.3557 | -.6124 | .0046 | .0003 | .0238 |
| 492 | .165 | 1922 | 16.19 | -.00 | 100880 | 2.5923 | -1.3334 | -.6075 | .0037 | -.0001 | .0216 |
| 493 | .165 | 1926 | 18.17 | -.00 | 100877 | 2.7630 | -1.3286 | -.5814 | .0051 | .0003 | .0219 |
| 494 | .167 | 1962 | 20.11 | -.00 | 100840 | 2.8924 | -1.3048 | -.5220 | .0055 | .0006 | .0214 |
| 495 | .166 | 1952 | 21.49 | -.00 | 100860 | 2.9936 | -1.3159 | -.4946 | .0044 | .0015 | .0230 |
| 496 | .166 | 1955 | .09 | -.00 | 100846 | 1.5095 | -1.2925 | -.8537 | .0029 | -.0008 | .0209 |
| 497 | .166 | 1942 | .05 | -.00 | 100867 | .6459 | .0802 | -.1971 | .0004 | .0015 | .0075 |

TEST 995 RUN 32

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 481 | .0510 | 0.0000 | .9763 | 33.8521 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0125 |
| 482 | .0814 | 28.3379 | 2.6178 | 30.2409 | 1.6138 | 1.6504 | 0.0000 | -1.5932 | .0131 |
| 483 | -1.7320 | 28.3478 | 2.6148 | 30.2473 | 1.6376 | 1.6749 | 0.0000 | -1.6146 | .0135 |
| 484 | .1161 | 28.3744 | 2.6206 | 30.2348 | 1.6243 | 1.6612 | 0.0000 | -1.6043 | .0136 |
| 485 | 1.9698 | 28.3509 | 2.6191 | 30.2380 | 1.6341 | 1.6712 | 0.0000 | -1.6130 | .0138 |
| 486 | 3.9268 | 28.3493 | 2.6176 | 30.2412 | 1.6458 | 1.6832 | 0.0000 | -1.6199 | .0140 |
| 487 | 5.9122 | 28.3158 | 2.6191 | 30.2379 | 1.6616 | 1.6994 | 0.0000 | -1.6338 | .0144 |
| 488 | 7.9278 | 28.3047 | 2.6190 | 30.2381 | 1.6625 | 1.7003 | 0.0000 | -1.6267 | .0145 |
| 489 | 10.0017 | 28.2996 | 2.6140 | 30.2492 | 1.6097 | 1.6463 | 0.0000 | -1.5627 | .0141 |
| 490 | 12.1327 | 28.2745 | 2.6187 | 30.2389 | 1.6076 | 1.6442 | 0.0000 | -1.5532 | .0141 |
| 491 | 14.2055 | 28.2549 | 2.6128 | 30.2519 | 1.6626 | 1.7004 | 0.0000 | -1.5889 | .0146 |
| 492 | 16.1883 | 28.2533 | 2.6161 | 30.2446 | 1.6461 | 1.6836 | 0.0000 | -1.5607 | .0144 |
| 493 | 18.1690 | 28.2556 | 2.6154 | 30.2460 | 1.6422 | 1.6795 | 0.0000 | -1.5408 | .0144 |
| 494 | 20.1076 | 28.2587 | 2.6210 | 30.2339 | 1.6155 | 1.6522 | 0.0000 | -1.4992 | .0140 |
| 495 | 21.4942 | 28.2573 | 2.6137 | 30.2498 | 1.6215 | 1.6583 | 0.0000 | -1.4866 | .0141 |
| 496 | .0885 | 28.1891 | 2.6143 | 30.2485 | 1.6178 | 1.6546 | 0.0000 | -1.5954 | .0157 |
| 497 | .0509 | 0.0000 | .9727 | 33.8600 | 0.0000 | 0.0000 | 0.0000 | .0271 | .0106 |

TEST 995 RUN 32

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | .0510 | .6459 | .1123 | -.1922 | .6459 | .0762 | -.1922 | .6459 | .0997 | -.1922 | 1.8000 |
| 482 | .0814 | 1.5052 | -1.2751 | -.8506 | 1.5029 | .3255 | -.6685 | 1.5054 | -1.4345 | -.8671 | 1.8000 |
| 483 | -1.7320 | 1.3331 | -1.3386 | -.8922 | 1.3826 | .2848 | -.7075 | 1.3294 | -1.4744 | -.9060 | 1.8000 |
| 484 | .1161 | 1.5136 | -1.2858 | -.8555 | 1.5103 | .3248 | -.6722 | 1.5139 | -1.4352 | -.8708 | 1.8000 |
| 485 | 1.9698 | 1.6995 | -1.2477 | -.8297 | 1.6434 | .3716 | -.6454 | 1.7039 | -1.3873 | -.8439 | 1.8000 |
| 486 | 3.9268 | 1.8976 | -1.2017 | -.8007 | 1.7849 | .4262 | -.6151 | 1.9054 | -1.3297 | -.8136 | 1.8000 |
| 487 | 5.9122 | 2.1011 | -1.1452 | -.7699 | 1.9299 | .4932 | -.5825 | 2.1112 | -1.2574 | -.7810 | 1.8000 |
| 488 | 7.9278 | 2.2573 | -1.0585 | -.7252 | 2.0279 | .5737 | -.5376 | 2.2787 | -1.1695 | -.7362 | 1.8000 |
| 489 | 10.0017 | 2.3698 | -.9172 | -.6751 | 2.0902 | .6540 | -.4935 | 2.3959 | -1.0793 | -.6920 | 1.8000 |
| 490 | 12.1327 | 2.5165 | -.8027 | -.6352 | 2.1786 | .7549 | -.4539 | 2.5485 | -.9658 | -.6524 | 1.8000 |
| 491 | 14.2055 | 2.6883 | -.7180 | -.6124 | 2.2803 | .8792 | -.4248 | 2.7122 | -.8269 | -.6234 | 1.8000 |
| 492 | 16.1883 | 2.8612 | -.5578 | -.6075 | 2.4023 | 1.0086 | -.4218 | 2.8930 | -.6816 | -.6204 | 1.8000 |
| 493 | 18.1690 | 3.0395 | -.4008 | -.5814 | 2.5274 | 1.1451 | -.3961 | 3.0762 | -.5271 | -.5947 | 1.8000 |
| 494 | 20.1076 | 3.1646 | -.2309 | -.5220 | 2.6093 | 1.2721 | -.3398 | 3.2143 | -.3807 | -.5383 | 1.8000 |
| 495 | 21.4942 | 3.2676 | -.1275 | -.4946 | 2.6734 | 1.3671 | -.3116 | 3.3183 | -.2705 | -.5102 | 1.8000 |
| 496 | .0885 | 1.5115 | -1.2901 | -.8537 | 1.5090 | .3120 | -.6712 | 1.5117 | -1.4480 | -.8697 | 1.8000 |
| 497 | .0509 | .6458 | .0808 | -.1971 | .6458 | .0430 | -.1971 | .6458 | .0701 | -.1971 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 33

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 510 | .166 | 1945 | .03 | -.00 | 100843 | .4551 | .0633 | -.1325 | -.0016 | -.0002 | -.0014 |
| 511 | .166 | 1949 | -1.83 | -.00 | 100840 | .3281 | .0648 | -.1690 | -.0014 | -.0008 | .0020 |
| 512 | .166 | 1942 | .05 | -.00 | 100846 | .4534 | .0628 | -.1335 | -.0011 | -.0002 | -.0016 |
| 513 | .165 | 1932 | 1.91 | -.00 | 100863 | .5827 | .0586 | -.0976 | -.0022 | -.0002 | -.0002 |
| 514 | .165 | 1916 | 3.86 | .00 | 100880 | .7192 | .0485 | -.0593 | -.0005 | -.0002 | -.0021 |
| 515 | .165 | 1919 | 5.91 | -.00 | 100877 | .8517 | .0344 | -.0229 | -.0001 | -.0002 | .0011 |
| 516 | .165 | 1916 | 7.89 | -.00 | 100880 | .9609 | .0246 | .0230 | -.0011 | -.0003 | .0028 |
| 517 | .169 | 2008 | 9.97 | -.00 | 100857 | 1.0102 | .0179 | .0694 | -.0016 | -.0002 | .0020 |
| 518 | .165 | 1922 | 12.00 | .00 | 100877 | 1.1405 | .0229 | .1230 | -.0015 | -.0011 | -.0095 |
| 519 | .165 | 1916 | 14.13 | .00 | 100887 | 1.2349 | .0241 | .1725 | -.0008 | -.0003 | .0012 |
| 520 | .163 | 1886 | 16.12 | .00 | 100917 | 1.3349 | .0459 | .1970 | -.0010 | -.0005 | .0020 |
| 521 | .164 | 1909 | 18.11 | .00 | 100893 | 1.4705 | .0530 | .2259 | -.0021 | -.0006 | .0020 |
| 522 | .164 | 1906 | 20.09 | .00 | 100900 | 1.6126 | .0512 | .2639 | -.0003 | -.0000 | .0025 |
| 523 | .168 | 1985 | 21.44 | -.00 | 100820 | 1.6996 | .0456 | .2976 | .0001 | .0005 | .0035 |
| 524 | .166 | 1939 | .04 | -.00 | 100877 | .4578 | .0703 | -.1312 | -.0011 | -.0001 | -.0027 |

TEST 995 RUN 33

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 510 | .0259 | 0.0000 | .9763 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0235 | .0081 |
| 511 | -1.8256 | 0.0000 | .9772 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0226 | .0081 |
| 512 | .0511 | 0.0000 | .9777 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0222 | .0081 |
| 513 | 1.9077 | 0.0000 | .9777 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0223 | .0079 |
| 514 | 3.8563 | 0.0000 | .9777 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0225 | .0077 |
| 515 | 5.9064 | 0.0000 | .9783 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0218 | .0074 |
| 516 | 7.8897 | 0.0000 | .9788 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0212 | .0074 |
| 517 | 9.9668 | 0.0000 | .9789 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0200 | .0072 |
| 518 | 11.9992 | 0.0000 | .9792 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0205 | .0074 |
| 519 | 14.1261 | 0.0000 | .9778 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0074 |
| 520 | 16.1228 | 0.0000 | .9727 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0268 | .0082 |
| 521 | 18.1084 | 0.0000 | .9693 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0296 | .0096 |
| 522 | 20.0906 | 0.0000 | .9684 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0301 | .0099 |
| 523 | 21.4413 | 0.0000 | .9668 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0300 | .0100 |
| 524 | .0492 | 0.0000 | .9815 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0185 | .0081 |

TEST 995 RUN 33

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 510 | .0259 | .4551 | .0635 | -.1325 | .4551 | .0319 | -.1325 | .4551 | .0554 | -.1325 | 1.0000 |
| 511 | -1.8256 | .3300 | .0543 | -.1690 | .3300 | .0236 | -.1690 | .3300 | .0462 | -.1690 | 1.0000 |
| 512 | .0511 | .4533 | .0632 | -.1335 | .4533 | .0329 | -.1335 | .4533 | .0551 | -.1335 | 1.0000 |
| 513 | 1.9077 | .5804 | .0780 | -.0976 | .5804 | .0478 | -.0976 | .5804 | .0701 | -.0976 | 1.0000 |
| 514 | 3.8563 | .7143 | .0968 | -.0593 | .7143 | .0666 | -.0593 | .7143 | .0890 | -.0593 | 1.0000 |
| 515 | 5.9064 | .8436 | .1218 | -.0229 | .8436 | .0926 | -.0229 | .8436 | .1144 | -.0229 | 1.0000 |
| 516 | 7.8897 | .9484 | .1563 | .0230 | .9484 | .1278 | .0230 | .9484 | .1489 | .0230 | 1.0000 |
| 517 | 9.9668 | .9919 | .1924 | .0694 | .9919 | .1653 | .0694 | .9919 | .1852 | .0694 | 1.0000 |
| 518 | 11.9992 | 1.1108 | .2595 | .1230 | 1.1108 | .2317 | .1230 | 1.1108 | .2521 | .1230 | 1.0000 |
| 519 | 14.1261 | 1.1917 | .3247 | .1725 | 1.1917 | .2956 | .1725 | 1.1917 | .3173 | .1725 | 1.0000 |
| 520 | 16.1228 | 1.2696 | .4148 | .1970 | 1.2696 | .3798 | .1970 | 1.2696 | .4067 | .1970 | 1.0000 |
| 521 | 18.1084 | 1.3812 | .5074 | .2259 | 1.3812 | .4683 | .2259 | 1.3812 | .4978 | .2259 | 1.0000 |
| 522 | 20.0906 | 1.4969 | .6021 | .2639 | 1.4969 | .5621 | .2639 | 1.4969 | .5922 | .2639 | 1.0000 |
| 523 | 21.4413 | 1.5653 | .6638 | .2976 | 1.5653 | .6237 | .2976 | 1.5653 | .6538 | .2976 | 1.0000 |
| 524 | .0492 | .4578 | .0707 | -.1312 | .4578 | .0441 | -.1312 | .4578 | .0626 | -.1312 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 34

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 525 | .165 | 1926 | .04 | -.00 | 100897 | .4622 | .0690 | -.1313 | -.0013 | -.0003 | -.0027 |
| 526 | .167 | 1978 | .08 | -.00 | 100847 | 1.1346 | -1.5909 | -.5744 | -.0007 | -.0029 | .0301 |
| 527 | .167 | 1962 | -1.79 | -.00 | 100864 | 1.0007 | -1.6031 | -.6095 | -.0011 | -.0017 | .0107 |
| 528 | .168 | 1995 | .10 | -.00 | 100884 | 1.1185 | -1.5798 | -.5656 | -.0013 | -.0011 | .0061 |
| 529 | .167 | 1959 | 1.96 | -.00 | 100894 | 1.2714 | -1.6175 | -.5431 | -.0019 | -.0011 | .0051 |
| 530 | .166 | 1949 | 3.94 | -.00 | 100880 | 1.4148 | -1.6388 | -.5141 | -.0016 | -.0016 | .0058 |
| 531 | .166 | 1935 | 5.90 | -.00 | 100894 | 1.5677 | -1.6616 | -.4780 | .0002 | -.0015 | .0086 |
| 532 | .165 | 1929 | 7.90 | -.00 | 100900 | 1.7024 | -1.6721 | -.4384 | -.0013 | -.0011 | .0071 |
| 533 | .164 | 1902 | 10.01 | -.00 | 100927 | 1.8087 | -1.6945 | -.4037 | -.0012 | -.0009 | .0074 |
| 534 | .165 | 1919 | 12.06 | -.00 | 100910 | 1.9051 | -1.6790 | -.3584 | -.0013 | -.0003 | .0101 |
| 535 | .164 | 1909 | 14.17 | -.00 | 100920 | 2.0050 | -1.6858 | -.3092 | -.0013 | -.0001 | .0094 |
| 536 | .164 | 1909 | 16.15 | -.00 | 100920 | 2.1476 | -1.6758 | -.3017 | -.0011 | .0002 | .0123 |
| 537 | .163 | 1886 | 18.13 | -.00 | 100944 | 2.3276 | -1.6938 | -.2818 | -.0006 | .0001 | .0118 |
| 538 | .163 | 1879 | 20.14 | -.00 | 100954 | 2.4664 | -1.7051 | -.2361 | .0012 | .0003 | .0113 |
| 539 | .166 | 1945 | 21.44 | -.00 | 100911 | 2.5394 | -1.6515 | -.1943 | .0004 | .0011 | .0112 |
| 540 | .167 | 1972 | .08 | -.00 | 100857 | 1.1378 | -1.6006 | -.5768 | -.0015 | -.0014 | .0050 |
| 541 | .166 | 1942 | .04 | .00 | 100880 | .4662 | .0362 | -.1358 | -.0016 | -.0012 | -.0074 |

TEST 995 RUN 34

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 525 | .0424 | 0.0000 | .9824 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0177 | .0078 |
| 526 | .0774 | 29.8404 | 2.7623 | 20.4000 | 1.7258 | 1.7650 | 0.0000 | -1.7213 | .0139 |
| 527 | -1.7912 | 29.8254 | 2.7614 | 20.4000 | 1.7392 | 1.7787 | 0.0000 | -1.7343 | .0141 |
| 528 | .1026 | 29.7924 | 2.7573 | 20.4000 | 1.7061 | 1.7469 | 0.0000 | -1.7029 | .0136 |
| 529 | 1.9640 | 29.6909 | 2.7523 | 20.4000 | 1.7335 | 1.7729 | 0.0000 | -1.7287 | .0138 |
| 530 | 3.9385 | 29.7835 | 2.7580 | 20.4000 | 1.7500 | 1.7898 | 0.0000 | -1.7397 | .0140 |
| 531 | 5.8999 | 29.7631 | 2.7592 | 20.4000 | 1.7627 | 1.8028 | 0.0000 | -1.7479 | .0142 |
| 532 | 7.8979 | 29.7500 | 2.7558 | 20.4000 | 1.7665 | 1.8067 | 0.0000 | -1.7432 | .0143 |
| 533 | 10.0058 | 29.7288 | 2.7559 | 20.4000 | 1.7910 | 1.8317 | 0.0000 | -1.7578 | .0144 |
| 534 | 12.0579 | 29.7167 | 2.7553 | 20.4000 | 1.7756 | 1.8160 | 0.0000 | -1.7297 | .0143 |
| 535 | 14.1684 | 29.7130 | 2.7592 | 20.4000 | 1.7873 | 1.8279 | 0.0000 | -1.7278 | .0144 |
| 536 | 16.1532 | 29.6516 | 2.7509 | 20.4000 | 1.7810 | 1.8215 | 0.0000 | -1.7036 | .0143 |
| 537 | 18.1297 | 29.7045 | 2.7593 | 20.4000 | 1.8091 | 1.8502 | 0.0000 | -1.7148 | .0144 |
| 538 | 20.1369 | 29.6602 | 2.7508 | 20.4000 | 1.8113 | 1.8524 | 0.0000 | -1.6920 | .0144 |
| 539 | 21.4429 | 29.6485 | 2.7553 | 20.4000 | 1.7519 | 1.7917 | 0.0000 | -1.6239 | .0139 |
| 540 | .0842 | 29.6235 | 2.7587 | 20.4000 | 1.7305 | 1.7698 | 0.0000 | -1.7238 | .0152 |
| 541 | .0428 | 0.0000 | .9786 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0159 |

TEST 995 RUN 34

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 525 | .0424 | .4621 | .0694 | -.1313 | .4621 | .0439 | -.1313 | .4621 | .0616 | -.1313 | 1.0000 |
| 526 | .0774 | 1.1367 | -1.5894 | -.5744 | 1.1344 | .1225 | -.3797 | 1.1368 | -1.6375 | -.5783 | 1.8000 |
| 527 | -1.7912 | .9501 | -1.6336 | -.6095 | 1.0045 | .0986 | -.4133 | .9494 | -1.6685 | -.6118 | 1.8000 |
| 528 | .1026 | 1.1214 | -1.5778 | -.5656 | 1.1183 | .1166 | -.3729 | 1.1215 | -1.6434 | -.5714 | 1.8000 |
| 529 | 1.9640 | 1.3261 | -1.5730 | -.5431 | 1.2666 | .1457 | -.3475 | 1.3270 | -1.6133 | -.5461 | 1.8000 |
| 530 | 3.9385 | 1.5241 | -1.5376 | -.5141 | 1.4039 | .1941 | -.3167 | 1.5248 | -1.5618 | -.5153 | 1.8000 |
| 531 | 5.8999 | 1.7302 | -1.4916 | -.4780 | 1.5490 | .2476 | -.2792 | 1.7299 | -1.5031 | -.4777 | 1.8000 |
| 532 | 7.8979 | 1.9161 | -1.4223 | -.4384 | 1.6733 | .3133 | -.2391 | 1.9152 | -1.4300 | -.4376 | 1.8000 |
| 533 | 10.0058 | 2.0756 | -1.3545 | -.4037 | 1.7644 | .3948 | -.2017 | 2.0702 | -1.3384 | -.4002 | 1.8000 |
| 534 | 12.0579 | 2.2138 | -1.2440 | -.3584 | 1.8429 | .4782 | -.1581 | 2.2105 | -1.2430 | -.3566 | 1.8000 |
| 535 | 14.1684 | 2.3567 | -1.1438 | -.3092 | 1.9192 | .5748 | -.1076 | 2.3500 | -1.1317 | -.3061 | 1.8000 |
| 536 | 16.1532 | 2.5291 | -1.0122 | -.3017 | 2.0336 | .6842 | -.1008 | 2.5232 | -1.0063 | -.2994 | 1.8000 |
| 537 | 18.1297 | 2.7390 | -.8854 | -.2818 | 2.1761 | .8195 | -.0777 | 2.7238 | -.8532 | -.2763 | 1.8000 |
| 538 | 20.1369 | 2.9027 | -.7518 | -.2361 | 2.2791 | .9343 | -.0318 | 2.8858 | -.7181 | -.2303 | 1.8000 |
| 539 | 21.4429 | 2.9673 | -.6088 | -.1943 | 2.3269 | 1.0079 | .0033 | 2.9703 | -.6303 | -.1952 | 1.8000 |
| 540 | .0842 | 1.1394 | -1.5989 | -.5768 | 1.1368 | .1164 | -.3816 | 1.1394 | -1.6436 | -.5802 | 1.8000 |
| 541 | .0428 | .4662 | .0366 | -.1358 | .4662 | -.0006 | -.1358 | .4662 | .0286 | -.1358 | 1.0000 |

NASA LANGLEY 7 X 18 HIGH SPEED TUNNEL

TEST 995 RUN 35

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 544 | .167 | 1965 | .03 | .00 | 100870 | .3761 | .0592 | -.1065 | -.0014 | -.0004 | -.0034 |
| 545 | .166 | 1952 | -1.86 | .00 | 100887 | .2559 | .0591 | -.1429 | -.0008 | -.0010 | .0012 |
| 546 | .166 | 1955 | .03 | .00 | 100887 | .3931 | .0563 | -.1028 | -.0011 | -.0004 | -.0034 |
| 547 | .166 | 1945 | 1.88 | -.00 | 100897 | .5092 | .0536 | -.0732 | -.0015 | -.0008 | .0055 |
| 548 | .166 | 1935 | 3.82 | .00 | 100911 | .6395 | .0468 | -.0372 | -.0008 | -.0002 | -.0028 |
| 549 | .168 | 1995 | 5.88 | -.00 | 100854 | .7732 | .0297 | .0040 | -.0007 | -.0003 | .0017 |
| 550 | .163 | 1869 | 7.84 | -.00 | 100981 | .8952 | .0208 | .0444 | -.0008 | -.0004 | .0006 |
| 551 | .166 | 1945 | 9.94 | -.00 | 100904 | .9864 | .0129 | .0924 | -.0021 | -.0004 | .0026 |
| 552 | .166 | 1949 | 12.00 | -.00 | 100901 | 1.0833 | .0101 | .1403 | -.0019 | -.0001 | .0029 |
| 553 | .166 | 1939 | 14.08 | -.00 | 100911 | 1.1798 | .0138 | .1919 | -.0010 | -.0001 | .0029 |
| 554 | .166 | 1939 | 16.04 | .00 | 100911 | 1.2918 | .0315 | .2177 | -.0007 | -.0005 | .0023 |
| 555 | .165 | 1929 | 18.11 | .00 | 100921 | 1.4235 | .0437 | .2381 | -.0021 | -.0003 | .0024 |
| 556 | .165 | 1916 | 20.07 | .00 | 100934 | 1.5768 | .0391 | .2749 | -.0085 | -.0002 | .0040 |
| 557 | .163 | 1889 | 21.43 | .00 | 100961 | 1.6785 | .0360 | .3071 | .0004 | .0004 | .0035 |
| 558 | .167 | 1959 | .01 | .00 | 100891 | .3783 | .0616 | -.1068 | -.0013 | -.0005 | -.0057 |

TEST 995 RUN 35

| POINT | ALPHA OEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 544 | .0268 | 0.0000 | .9825 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0172 | .0075 |
| 545 | -1.8626 | 0.0000 | .9826 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0172 | .0076 |
| 546 | .0281 | 0.0000 | .9834 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0164 | .0075 |
| 547 | 1.8819 | 0.0000 | .9830 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0169 | .0075 |
| 548 | 3.8202 | 0.0000 | .9830 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0170 | .0074 |
| 549 | 5.8805 | 0.0000 | .9826 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0168 | .0072 |
| 550 | 7.8358 | 0.0000 | .9840 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0164 | .0070 |
| 551 | 9.9358 | 0.0000 | .9838 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0159 | .0071 |
| 552 | 12.0027 | 0.0000 | .9840 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0155 | .0073 |
| 553 | 14.0834 | 0.0000 | .9830 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0165 | .0073 |
| 554 | 16.0420 | 0.0000 | .9784 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0207 | .0077 |
| 555 | 18.1115 | 0.0000 | .9731 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0257 | .0094 |
| 556 | 20.0735 | 0.0000 | .9704 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0280 | .0096 |
| 557 | 21.4285 | 0.0000 | .9729 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0259 | .0097 |
| 558 | .0106 | 0.0000 | .9861 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0138 | .0075 |

TEST 995 RUN 35

| POINT | ALPHA OEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 544 | .0268 | .3761 | .0593 | -.1065 | .3761 | .0346 | -.1065 | .3761 | .0519 | -.1065 | 1.0000 |
| 545 | -1.8626 | .2577 | .0508 | -.1429 | .2577 | .0259 | -.1429 | .2577 | .0431 | -.1429 | 1.0000 |
| 546 | .0281 | .3931 | .0565 | -.1028 | .3931 | .0326 | -.1028 | .3931 | .0490 | -.1028 | 1.0000 |
| 547 | 1.8819 | .5071 | .0703 | -.0732 | .5071 | .0459 | -.0732 | .5071 | .0628 | -.0732 | 1.0000 |
| 548 | 3.8202 | .6350 | .0893 | -.0372 | .6350 | .0649 | -.0372 | .6350 | .0819 | -.0372 | 1.0000 |
| 549 | 5.8805 | .7661 | .1087 | .0040 | .7661 | .0847 | .0040 | .7661 | .1015 | .0040 | 1.0000 |
| 550 | 7.8358 | .8840 | .1426 | .0444 | .8840 | .1193 | .0444 | .8840 | .1356 | .0444 | 1.0000 |
| 551 | 9.9358 | .9714 | .1833 | .0924 | .9714 | .1602 | .0924 | .9714 | .1761 | .0924 | 1.0000 |
| 552 | 12.0027 | 1.0575 | .2352 | .1403 | 1.0575 | .2123 | .1403 | 1.0575 | .2279 | .1403 | 1.0000 |
| 553 | 14.0834 | 1.1410 | .3004 | .1919 | 1.1410 | .2767 | .1919 | 1.1410 | .2932 | .1919 | 1.0000 |
| 554 | 16.0420 | 1.2328 | .3672 | .2177 | 1.2328 | .3588 | .2177 | 1.2328 | .3795 | .2177 | 1.0000 |
| 555 | 18.1115 | 1.3394 | .4641 | .2381 | 1.3394 | .4491 | .2381 | 1.3394 | .4747 | .2381 | 1.0000 |
| 556 | 20.0735 | 1.4668 | .5777 | .2749 | 1.4668 | .5408 | .2749 | 1.4668 | .5680 | .2749 | 1.0000 |
| 557 | 21.4285 | 1.5493 | .6468 | .3071 | 1.5493 | .6112 | .3071 | 1.5493 | .6371 | .3071 | 1.0000 |
| 558 | .0106 | .3782 | .0617 | -.1068 | .3782 | .0404 | -.1068 | .3782 | .0542 | -.1068 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 36

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 559 | .167 | 1975 | .01 | .00 | 100891 | .3728 | .0593 | -.1061 | -.0015 | -.0007 | -.0046 |
| 560 | .166 | 1949 | .01 | .00 | 100901 | .3779 | .0595 | -.1064 | -.0011 | -.0004 | -.0035 |
| 561 | .166 | 1955 | .03 | -.00 | 100894 | .8790 | -1.5411 | -.4519 | -.0001 | -.0028 | .0087 |
| 562 | .166 | 1935 | -1.72 | -.00 | 100914 | .7451 | -1.5635 | -.4864 | -.0001 | -.0033 | .0111 |
| 563 | .168 | 1992 | .04 | -.00 | 100857 | .8743 | -1.5139 | -.4451 | -.0006 | -.0027 | .0087 |
| 564 | .166 | 1945 | 1.91 | -.00 | 100904 | 1.0233 | -1.5562 | -.4218 | -.0002 | -.0027 | .0086 |
| 565 | .167 | 1972 | 3.88 | -.00 | 100877 | 1.1520 | -1.5465 | -.3857 | -.0004 | -.0029 | .0084 |
| 566 | .166 | 1952 | 5.90 | -.00 | 100897 | 1.2997 | -1.5782 | -.3532 | .0008 | -.0040 | .0132 |
| 567 | .167 | 1968 | 7.91 | -.00 | 100891 | 1.4419 | -1.5688 | -.3102 | .0001 | -.0030 | .0115 |
| 568 | .168 | 1995 | 9.94 | -.00 | 100864 | 1.5479 | -1.5474 | -.2742 | -.0001 | -.0024 | .0116 |
| 569 | .166 | 1949 | 12.07 | -.00 | 100928 | 1.6684 | -1.5844 | -.2469 | .0001 | -.0020 | .0109 |
| 570 | .167 | 1975 | 14.19 | -.00 | 100874 | 1.7935 | -1.5606 | -.1990 | .0007 | -.0014 | .0099 |
| 571 | .166 | 1942 | 16.13 | -.00 | 100907 | 1.9542 | -1.5756 | -.1980 | .0001 | -.0017 | .0083 |
| 572 | .168 | 1985 | 18.12 | -.00 | 100864 | 2.1152 | -1.5379 | -.1724 | .0012 | -.0012 | .0109 |
| 573 | .165 | 1926 | 20.16 | -.00 | 100927 | 2.2923 | -1.5920 | -.1439 | .0024 | -.0012 | .0095 |
| 574 | .165 | 1926 | 21.61 | -.00 | 100927 | 2.4179 | -1.5970 | -.1107 | .0015 | -.0007 | .0108 |
| 575 | .166 | 1952 | .05 | -.00 | 100897 | .8816 | -1.5484 | -.4541 | .0005 | -.0025 | .0052 |
| 576 | .167 | 1968 | .02 | .00 | 100887 | .3750 | .0220 | -.1117 | -.0016 | -.0023 | -.0094 |

TEST 995 RUN 36

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 559 | .0082 | 0.0000 | .9864 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0133 | .0077 |
| 560 | .0082 | 0.0000 | .9857 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0142 | .0078 |
| 561 | .0334 | 28.4953 | 2.6361 | 16.0000 | 1.6351 | 1.6722 | 0.0000 | -1.6177 | .0180 |
| 562 | -1.7175 | 28.4916 | 2.6374 | 16.0000 | 1.6529 | 1.6905 | 0.0000 | -1.6352 | .0183 |
| 563 | .0411 | 28.4703 | 2.6394 | 16.0000 | 1.6063 | 1.6428 | 0.0000 | -1.5908 | .0178 |
| 564 | 1.9112 | 28.4570 | 2.6339 | 16.0000 | 1.6429 | 1.6802 | 0.0000 | -1.6230 | .0178 |
| 565 | 3.8762 | 28.4587 | 2.6383 | 16.0000 | 1.6219 | 1.6588 | 0.0000 | -1.6023 | .0175 |
| 566 | 5.9007 | 28.4384 | 2.6380 | 16.0000 | 1.6389 | 1.6762 | 0.0000 | -1.6138 | .0175 |
| 567 | 7.9053 | 28.4255 | 2.6407 | 16.0000 | 1.6264 | 1.6634 | 0.0000 | -1.5960 | .0174 |
| 568 | 9.9448 | 28.3971 | 2.6396 | 16.0000 | 1.6026 | 1.6390 | 0.0000 | -1.5646 | .0178 |
| 569 | 12.0712 | 28.3913 | 2.6352 | 16.0000 | 1.6405 | 1.6778 | 0.0000 | -1.5870 | .0188 |
| 570 | 14.1913 | 28.3898 | 2.6352 | 16.0000 | 1.6191 | 1.6559 | 0.0000 | -1.5514 | .0207 |
| 571 | 16.1313 | 28.3464 | 2.6356 | 16.0000 | 1.6458 | 1.6832 | 0.0000 | -1.5643 | .0223 |
| 572 | 18.1246 | 28.3333 | 2.6374 | 16.0000 | 1.6099 | 1.6465 | 0.0000 | -1.5152 | .0234 |
| 573 | 20.1582 | 28.3148 | 2.6330 | 16.0000 | 1.6579 | 1.6956 | 0.0000 | -1.5396 | .0252 |
| 574 | 21.6128 | 28.3057 | 2.6355 | 16.0000 | 1.6591 | 1.6968 | 0.0000 | -1.5271 | .0264 |
| 575 | .0450 | 28.2577 | 2.6345 | 16.0000 | 1.6390 | 1.6762 | 0.0000 | -1.6189 | .0181 |
| 576 | .0197 | 0.0000 | .9819 | 16.0000 | 0.0000 | 0.0000 | 0.0000 | .0177 | .0078 |

TEST 995 RUN 36

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 559 | .0082 | .3728 | .0594 | -.1061 | .3728 | .0383 | -.1061 | .3728 | .0516 | -.1061 | 1.8000 |
| 560 | .0082 | .3779 | .0596 | -.1064 | .3779 | .0376 | -.1064 | .3779 | .0517 | -.1064 | 1.8000 |
| 561 | .0334 | .8799 | -1.5406 | -.4519 | .8789 | .0764 | -.2674 | .8799 | -1.6836 | -.4660 | 1.8000 |
| 562 | -1.7175 | .6979 | -1.5852 | -.4864 | .7474 | .0487 | -.2999 | .6947 | -1.7106 | -.4984 | 1.8000 |
| 563 | .0411 | .8754 | -1.5133 | -.4451 | .8742 | .0751 | -.2639 | .8755 | -1.6849 | -.4625 | 1.8000 |
| 564 | 1.9112 | 1.0746 | -1.5212 | -.4218 | 1.0198 | .1038 | -.2364 | 1.0785 | -1.6560 | -.4350 | 1.8000 |
| 565 | 3.8762 | 1.2539 | -1.4651 | -.3857 | 1.1443 | .1356 | -.2027 | 1.2633 | -1.6204 | -.4012 | 1.8000 |
| 566 | 5.9007 | 1.4550 | -1.4362 | -.3532 | 1.2866 | .1765 | -.1663 | 1.4675 | -1.5742 | -.3668 | 1.8000 |
| 567 | 7.9053 | 1.6440 | -1.3556 | -.3102 | 1.4203 | .2380 | -.1267 | 1.6624 | -1.5053 | -.3253 | 1.8000 |
| 568 | 9.9448 | 1.7919 | -1.2568 | -.2742 | 1.5151 | .3038 | -.0934 | 1.8191 | -1.4297 | -.2920 | 1.8000 |
| 569 | 12.0712 | 1.9628 | -1.2004 | -.2469 | 1.6197 | .3850 | -.0619 | 1.9878 | -1.3361 | -.2604 | 1.8000 |
| 570 | 14.1913 | 2.1214 | -1.0733 | -.1990 | 1.7244 | .4758 | -.0163 | 2.1559 | -1.2305 | -.2149 | 1.8000 |
| 571 | 16.1313 | 2.3150 | -.9706 | -.1980 | 1.8577 | .5882 | -.0123 | 2.3467 | -1.1025 | -.2109 | 1.8000 |
| 572 | 18.1246 | 2.4886 | -.8036 | -.1724 | 1.9878 | .7031 | .0092 | 2.5353 | -.9696 | -.1893 | 1.8000 |
| 573 | 20.1582 | 2.7005 | -.7045 | -.1439 | 2.1291 | .8267 | .0432 | 2.7357 | -.8255 | -.1554 | 1.8000 |
| 574 | 21.6128 | 2.8362 | -.5941 | -.1107 | 2.2250 | .9220 | .0765 | 2.8733 | -.7142 | -.1221 | 1.8000 |
| 575 | .0450 | .8828 | -1.5477 | -.4541 | .8815 | .0732 | -.2692 | .8829 | -1.6868 | -.4678 | 1.8000 |
| 576 | .0197 | .3750 | .0221 | -.1117 | .3750 | -.0034 | -.1117 | .3750 | .0144 | -.1117 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 38

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 605 | .166 | 1945 | .00 | .00 | 101043 | .2475 | .0506 | -.0726 | -.0003 | .0002 | -.0007 |
| 606 | .165 | 1932 | -1.87 | .00 | 101053 | .1131 | .0511 | -.1049 | -.0009 | .0002 | -.0067 |
| 607 | .165 | 1935 | -.02 | -.00 | 101053 | .2487 | .0507 | -.0729 | -.0006 | .0002 | -.0006 |
| 608 | .165 | 1922 | 1.93 | .00 | 101066 | .3790 | .0451 | -.0400 | -.0006 | .0002 | -.0014 |
| 609 | .166 | 1945 | 3.88 | .00 | 101043 | .5176 | .0348 | -.0058 | -.0007 | .0001 | -.0023 |
| 610 | .165 | 1916 | 5.85 | .00 | 101073 | .6752 | .0212 | .0322 | -.0008 | -.0008 | .0002 |
| 611 | .166 | 1952 | 7.90 | .00 | 101036 | .8148 | .0099 | .0607 | -.0011 | -.0000 | -.0011 |
| 612 | .165 | 1932 | 9.96 | .00 | 101056 | .9518 | .0037 | .0927 | -.0011 | -.0001 | -.0011 |
| 613 | .165 | 1935 | 12.04 | .00 | 101053 | 1.0745 | .0002 | .1301 | -.0010 | .0001 | -.0033 |
| 614 | .168 | 1985 | 14.17 | .00 | 101003 | 1.1934 | .0022 | .1735 | -.0008 | .0003 | -.0041 |
| 615 | .166 | 1945 | 16.13 | .00 | 101046 | 1.3237 | .0097 | .1973 | -.0007 | .0001 | -.0030 |
| 616 | .164 | 1906 | 18.17 | .00 | 101083 | 1.4895 | .0234 | .2033 | -.0013 | -.0001 | -.0060 |
| 617 | .167 | 1978 | 20.14 | .00 | 101009 | 1.6300 | .0181 | .2412 | -.0016 | .0001 | -.0021 |
| 618 | .162 | 1863 | 21.93 | .00 | 101127 | 1.7727 | .0159 | .2854 | .0005 | .0014 | -.0027 |
| 619 | .177 | 2199 | .03 | .00 | 100775 | .2483 | .0546 | -.0737 | -.0002 | .0004 | -.0018 |

TEST 995 RUN 38

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 605 | .0033 | 0.0000 | .9824 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0175 | .0074 |
| 606 | -1.8693 | 0.0000 | .9842 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0158 | .0074 |
| 607 | -.0153 | 0.0000 | .9849 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0151 | .0074 |
| 608 | 1.9279 | 0.0000 | .9856 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0145 | .0074 |
| 609 | 3.8830 | 0.0000 | .9852 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0147 | .0074 |
| 610 | 5.8538 | 0.0000 | .9856 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0144 | .0073 |
| 611 | 7.8974 | 0.0000 | .9853 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0145 | .0072 |
| 612 | 9.9571 | 0.0000 | .9844 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0154 | .0072 |
| 613 | 12.0427 | 0.0000 | .9842 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0154 | .0077 |
| 614 | 14.1655 | 0.0000 | .9822 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0169 | .0077 |
| 615 | 16.1326 | 0.0000 | .9794 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0077 |
| 616 | 18.1697 | 0.0000 | .9748 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0243 | .0088 |
| 617 | 20.1432 | 0.0000 | .9730 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0248 | .0092 |
| 618 | 21.9285 | 0.0000 | .9752 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0239 | .0092 |
| 619 | .0280 | 0.0000 | .9842 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0139 | .0074 |

TEST 995 RUN 38

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 605 | .0033 | .2475 | .0506 | -.0726 | .2475 | .0257 | -.0726 | .2475 | .0432 | -.0726 | 1.0000 |
| 606 | -1.8693 | .1147 | .0474 | -.1049 | .1147 | .0242 | -.1049 | .1147 | .0400 | -.1049 | 1.0000 |
| 607 | -.0153 | .2487 | .0506 | -.0729 | .2487 | .0282 | -.0729 | .2487 | .0432 | -.0729 | 1.0000 |
| 608 | 1.9279 | .3772 | .0579 | -.0400 | .3772 | .0360 | -.0400 | .3772 | .0505 | -.0400 | 1.0000 |
| 609 | 3.8830 | .5140 | .0698 | -.0058 | .5140 | .0477 | -.0058 | .5140 | .0624 | -.0058 | 1.0000 |
| 610 | 5.8538 | .6695 | .0899 | .0322 | .6695 | .0681 | .0322 | .6695 | .0826 | .0322 | 1.0000 |
| 611 | 7.8974 | .8057 | .1218 | .0607 | .8057 | .1001 | .0607 | .8057 | .1146 | .0607 | 1.0000 |
| 612 | 9.9571 | .9361 | .1681 | .0927 | .9361 | .1454 | .0927 | .9361 | .1608 | .0927 | 1.0000 |
| 613 | 12.0427 | 1.0508 | .2243 | .1301 | 1.0508 | .2013 | .1301 | 1.0508 | .2167 | .1301 | 1.0000 |
| 614 | 14.1655 | 1.1566 | .2942 | .1735 | 1.1566 | .2697 | .1735 | 1.1566 | .2866 | .1735 | 1.0000 |
| 615 | 16.1326 | 1.2689 | .3771 | .1973 | 1.2689 | .3497 | .1973 | 1.2689 | .3694 | .1973 | 1.0000 |
| 616 | 18.1697 | 1.4079 | .4867 | .2033 | 1.4079 | .4537 | .2033 | 1.4079 | .4780 | .2033 | 1.0000 |
| 617 | 20.1432 | 1.5241 | .5783 | .2412 | 1.5241 | .5443 | .2412 | 1.5241 | .5691 | .2412 | 1.0000 |
| 618 | 21.9285 | 1.6385 | .6767 | .2854 | 1.6385 | .6436 | .2854 | 1.6385 | .6675 | .2854 | 1.0000 |
| 619 | .0280 | .2483 | .0547 | -.0737 | .2483 | .0335 | -.0737 | .2483 | .0473 | -.0737 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 39

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 620 | .166 | 1939 | -.01 | .00 | 101039 | .2390 | .0538 | -.0761 | -.0003 | .0000 | -.0066 |
| 621 | .167 | 1975 | .02 | .00 | 100999 | .8150 | -1.5258 | -.5830 | .0035 | -.0032 | .0085 |
| 622 | .166 | 1942 | -1.85 | .00 | 101033 | .6778 | -1.5453 | -.6136 | .0052 | -.0033 | .0019 |
| 623 | .167 | 1965 | .04 | .00 | 101009 | .8184 | -1.5348 | -.5823 | .0040 | -.0034 | .0084 |
| 624 | .167 | 1968 | 1.96 | .00 | 101006 | 1.0025 | -1.5991 | -.5888 | .0002 | -.0078 | .0076 |
| 625 | .166 | 1959 | 3.91 | .00 | 101016 | 1.1508 | -1.6205 | -.5617 | -.0003 | -.0077 | .0071 |
| 626 | .166 | 1949 | 5.92 | .00 | 101026 | 1.3057 | -1.6437 | -.5319 | .0000 | -.0092 | .0183 |
| 627 | .166 | 1945 | 7.92 | .00 | 101029 | 1.4658 | -1.6485 | -.4967 | .0006 | -.0082 | .0112 |
| 628 | .165 | 1932 | 10.02 | .00 | 101043 | 1.6260 | -1.6688 | -.4781 | .0002 | -.0076 | .0092 |
| 629 | .164 | 1906 | 12.07 | .00 | 101069 | 1.7921 | -1.6921 | -.4650 | -.0003 | -.0072 | .0059 |
| 630 | .165 | 1929 | 14.17 | .00 | 101046 | 1.9403 | -1.6758 | -.4309 | -.0001 | -.0070 | .0058 |
| 631 | .164 | 1912 | 16.18 | .00 | 101059 | 2.1257 | -1.6892 | -.4243 | -.0005 | -.0070 | .0107 |
| 632 | .163 | 1879 | 18.21 | .00 | 101096 | 2.3457 | -1.7163 | -.4424 | .0004 | -.0073 | .0084 |
| 633 | .164 | 1896 | 20.19 | .00 | 101076 | 2.5345 | -1.7064 | -.4175 | .0014 | -.0067 | .0077 |
| 634 | .167 | 1972 | 21.85 | .00 | 101060 | 2.6885 | -1.6466 | -.3757 | .0013 | -.0059 | .0075 |
| 635 | .168 | 2005 | .03 | .00 | 101023 | .8386 | -1.5761 | -.6065 | .0001 | -.0077 | .0051 |
| 636 | .163 | 1886 | -.00 | .00 | 101083 | .2594 | -.0017 | -.0738 | -.0011 | -.0028 | -.0188 |

TEST 995 RUN 39

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 620 | -.0115 | 0.0000 | .9896 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0103 | .0076 |
| 621 | .0165 | 29.3524 | 2.6970 | 15.0000 | 1.6751 | 1.7131 | 0.0000 | -1.6628 | .0215 |
| 622 | -1.8465 | 29.2996 | 2.6874 | 15.0000 | 1.6953 | 1.7339 | 0.0000 | -1.6812 | .0219 |
| 623 | .0399 | 29.3625 | 2.6910 | 15.0000 | 1.6790 | 1.7172 | 0.0000 | -1.6655 | .0218 |
| 624 | 1.9551 | 30.1843 | 2.7816 | 15.0000 | 1.7545 | 1.7944 | 0.0000 | -1.7506 | .0213 |
| 625 | 3.9139 | 30.1722 | 2.7822 | 15.0000 | 1.7645 | 1.8046 | 0.0000 | -1.7572 | .0212 |
| 626 | 5.9183 | 30.1572 | 2.7832 | 15.0000 | 1.7751 | 1.8154 | 0.0000 | -1.7620 | .0211 |
| 627 | 7.9202 | 30.0976 | 2.7885 | 15.0000 | 1.7767 | 1.8171 | 0.0000 | -1.7628 | .0212 |
| 628 | 10.0188 | 30.0575 | 2.7801 | 15.0000 | 1.7861 | 1.8267 | 0.0000 | -1.7566 | .0219 |
| 629 | 12.0709 | 29.9816 | 2.7779 | 15.0000 | 1.8085 | 1.8496 | 0.0000 | -1.7667 | .0231 |
| 630 | 14.1750 | 29.9633 | 2.7820 | 15.0000 | 1.7897 | 1.8303 | 0.0000 | -1.7343 | .0223 |
| 631 | 16.1802 | 29.9310 | 2.7782 | 15.0000 | 1.8045 | 1.8455 | 0.0000 | -1.7293 | .0222 |
| 632 | 18.2147 | 29.8938 | 2.7799 | 15.0000 | 1.8362 | 1.8779 | 0.0000 | -1.7427 | .0222 |
| 633 | 20.1922 | 29.8338 | 2.7815 | 15.0000 | 1.8196 | 1.8609 | 0.0000 | -1.7081 | .0217 |
| 634 | 21.8484 | 29.8251 | 2.7859 | 15.0000 | 1.7513 | 1.7911 | 0.0000 | -1.6279 | .0206 |
| 635 | .0315 | 29.7500 | 2.7804 | 15.0000 | 1.7228 | 1.7619 | 0.0000 | -1.7190 | .0212 |
| 636 | -.0030 | 0.0000 | .9822 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0212 |

TEST 995 RUN 39

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 620 | -.0115 | .2390 | .0537 | -.0761 | .2390 | .0357 | -.0761 | .2390 | .0461 | -.0761 | 1.0000 |
| 621 | .0165 | .8154 | -1.5256 | -.5830 | .8150 | .1280 | -.3940 | .8155 | -1.6320 | -.5925 | 1.8000 |
| 622 | -1.8465 | .6276 | -1.5664 | -.6136 | .6822 | .1062 | -.4223 | .6255 | -1.6528 | -.6208 | 1.8000 |
| 623 | .0399 | .8195 | -1.5342 | -.5823 | .8183 | .1229 | -.3928 | .8196 | -1.6371 | -.5914 | 1.8000 |
| 624 | 1.9551 | 1.0565 | -1.5640 | -.5888 | .9966 | .1682 | -.3909 | 1.0566 | -1.5907 | -.5895 | 1.8000 |
| 625 | 3.9139 | 1.2587 | -1.5381 | -.5617 | 1.1383 | .2011 | -.3627 | 1.2584 | -1.5548 | -.5612 | 1.8000 |
| 626 | 5.9183 | 1.4682 | -1.5003 | -.5319 | 1.2852 | .2441 | -.3316 | 1.4666 | -1.5065 | -.5302 | 1.8000 |
| 627 | 7.9202 | 1.6790 | -1.4308 | -.4967 | 1.4342 | .3077 | -.2963 | 1.6767 | -1.4355 | -.4948 | 1.8000 |
| 628 | 10.0188 | 1.8916 | -1.3605 | -.4781 | 1.5808 | .3765 | -.2766 | 1.8870 | -1.3567 | -.4751 | 1.8000 |
| 629 | 12.0709 | 2.1063 | -1.2799 | -.4658 | 1.7281 | .4655 | -.2618 | 2.0962 | -1.2556 | -.4595 | 1.8000 |
| 630 | 14.1750 | 2.2916 | -1.1496 | -.4309 | 1.8534 | .5632 | -.2290 | 2.2844 | -1.1432 | -.4276 | 1.8000 |
| 631 | 16.1802 | 2.5122 | -1.0300 | -.4243 | 2.0094 | .6809 | -.2207 | 2.4998 | -1.0094 | -.4193 | 1.8000 |
| 632 | 18.2147 | 2.7646 | -.8971 | -.4424 | 2.1907 | .8249 | -.2352 | 2.7408 | -.8469 | -.4338 | 1.8000 |
| 633 | 20.1922 | 2.9677 | -.7267 | -.4175 | 2.3397 | .9594 | -.2122 | 2.9472 | -.6925 | -.4107 | 1.8000 |
| 634 | 21.8484 | 3.0339 | -.5576 | -.3757 | 2.3821 | 1.0473 | -.1781 | 3.0371 | -.5863 | -.3766 | 1.8000 |
| 635 | .0315 | .8395 | -1.5756 | -.6065 | .8385 | .1260 | -.4122 | .8395 | -1.6346 | -.6107 | 1.8000 |
| 636 | -.0030 | .2594 | -.0017 | -.0738 | .2594 | -.0412 | -.0738 | .2594 | -.0229 | -.0738 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 40

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 645 | .166 | 1939 | -.00 | -.00 | 101070 | .0756 | .0720 | -.0412 | -.0007 | -.0005 | .0088 |
| 646 | .166 | 1939 | -1.87 | -.00 | 101070 | -.0587 | .0857 | -.0706 | -.0009 | .0001 | -.0012 |
| 647 | .166 | 1955 | .02 | .00 | 101060 | .0762 | .0722 | -.0410 | -.0007 | -.0009 | .0041 |
| 648 | .166 | 1959 | 1.93 | -.00 | 101056 | .2238 | .0580 | -.0151 | -.0006 | -.0002 | .0081 |
| 649 | .166 | 1949 | 3.89 | -.00 | 101067 | .3839 | .0397 | .0086 | -.0022 | -.0000 | .0102 |
| 650 | .166 | 1959 | 5.89 | -.00 | 101053 | .5415 | .0166 | .0381 | -.0019 | -.0003 | .0082 |
| 651 | .166 | 1945 | 7.90 | -.00 | 101063 | .6840 | -.0171 | .0699 | -.0012 | .0004 | .0081 |
| 652 | .166 | 1949 | 9.98 | .00 | 101060 | .8026 | -.0343 | .1064 | -.0019 | .0002 | .0030 |
| 653 | .168 | 1995 | 12.08 | .00 | 101060 | .8934 | -.0644 | .1470 | -.0035 | -.0020 | -.0133 |
| 654 | .166 | 1939 | 14.16 | .00 | 101063 | 1.0377 | -.0985 | .2104 | -.0042 | -.0011 | .0072 |
| 655 | .167 | 1978 | 16.15 | .00 | 101060 | 1.1281 | -.1237 | .2483 | -.0052 | -.0004 | .0039 |
| 656 | .169 | 2011 | 18.18 | .00 | 101037 | 1.2312 | -.1493 | .2991 | -.0018 | -.0012 | .0046 |
| 657 | .165 | 1926 | 20.11 | .00 | 101083 | 1.3806 | -.1454 | .3508 | -.0013 | -.0008 | .0064 |
| 658 | .166 | 1939 | 21.90 | -.00 | 101073 | 1.4821 | -.1226 | .3874 | -.0011 | .0011 | .0144 |
| 659 | .166 | 1952 | .03 | -.00 | 101067 | .8763 | .0800 | -.0389 | .0005 | .0003 | .0132 |

TEST 995 RUN 40

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 645 | -.0002 | 0.0000 | .9805 | 3.6197 | 0.0000 | 0.0000 | 0.0000 | .0195 | .0077 |
| 646 | -1.8653 | 0.0000 | .9829 | 3.6235 | 0.0000 | 0.0000 | 0.0000 | .0171 | .0077 |
| 647 | .0161 | 0.0000 | .9832 | 3.6240 | 0.0000 | 0.0000 | 0.0000 | .0166 | .0076 |
| 648 | 1.9327 | 0.0000 | .9834 | 3.6243 | 0.0000 | 0.0000 | 0.0000 | .0164 | .0077 |
| 649 | 3.8939 | 0.0000 | .9835 | 3.6243 | 0.0000 | 0.0000 | 0.0000 | .0164 | .0075 |
| 650 | 5.8867 | 0.0000 | .9857 | 3.6279 | 0.0000 | 0.0000 | 0.0000 | .0140 | .0075 |
| 651 | 7.8983 | 0.0000 | .9847 | 3.6263 | 0.0000 | 0.0000 | 0.0000 | .0151 | .0075 |
| 652 | 9.9769 | 0.0000 | .9854 | 3.6274 | 0.0000 | 0.0000 | 0.0000 | .0143 | .0075 |
| 653 | 12.0807 | 0.0000 | .9863 | 3.6288 | 0.0000 | 0.0000 | 0.0000 | .0130 | .0076 |
| 654 | 14.1611 | 0.0000 | .9863 | 3.6288 | 0.0000 | 0.0000 | 0.0000 | .0132 | .0075 |
| 655 | 16.1481 | 0.0000 | .9862 | 3.6286 | 0.0000 | 0.0000 | 0.0000 | .0130 | .0076 |
| 656 | 18.1842 | 0.0000 | .9863 | 3.6288 | 0.0000 | 0.0000 | 0.0000 | .0125 | .0073 |
| 657 | 20.1095 | 0.0000 | .9853 | 3.6272 | 0.0000 | 0.0000 | 0.0000 | .0139 | .0071 |
| 658 | 21.9032 | 0.0000 | .9824 | 3.6227 | 0.0000 | 0.0000 | 0.0000 | .0163 | .0066 |
| 659 | .0255 | 0.0000 | .9864 | 3.6320 | 0.0000 | 0.0000 | 0.0000 | .0115 | .0076 |

TEST 995 RUN 40

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 645 | -.0002 | .0756 | .0720 | -.0412 | .0756 | .0449 | -.0412 | .0756 | .0644 | -.0412 | 1.0000 |
| 646 | -1.8653 | -.0559 | .0875 | -.0706 | -.0559 | .0627 | -.0706 | -.0559 | .0798 | -.0706 | 1.0000 |
| 647 | .0161 | .0762 | .0722 | -.0410 | .0762 | .0479 | -.0410 | .0762 | .0645 | -.0410 | 1.0000 |
| 648 | 1.9327 | .2218 | .0655 | -.0151 | .2218 | .0415 | -.0151 | .2218 | .0578 | -.0151 | 1.0000 |
| 649 | 3.8939 | .3803 | .0657 | .0086 | .3803 | .0417 | .0086 | .3803 | .0581 | .0086 | 1.0000 |
| 650 | 5.8867 | .5370 | .0720 | .0381 | .5370 | .0505 | .0381 | .5370 | .0645 | .0381 | 1.0000 |
| 651 | 7.8983 | .6798 | .0771 | .0699 | .6798 | .0545 | .0699 | .6798 | .0695 | .0699 | 1.0000 |
| 652 | 9.9769 | .7964 | .1052 | .1064 | .7964 | .0835 | .1064 | .7964 | .0978 | .1064 | 1.0000 |
| 653 | 12.0807 | .8671 | .1240 | .1470 | .8671 | .1034 | .1470 | .8671 | .1164 | .1470 | 1.0000 |
| 654 | 14.1611 | 1.0303 | .1584 | .2104 | 1.0303 | .1376 | .2104 | 1.0303 | .1509 | .2104 | 1.0000 |
| 655 | 16.1481 | 1.1180 | .1949 | .2483 | 1.1180 | .1743 | .2483 | 1.1180 | .1873 | .2483 | 1.0000 |
| 656 | 18.1842 | 1.2163 | .2424 | .2991 | 1.2163 | .2226 | .2991 | 1.2163 | .2351 | .2991 | 1.0000 |
| 657 | 20.1095 | 1.3464 | .3382 | .3508 | 1.3464 | .3172 | .3508 | 1.3464 | .3311 | .3508 | 1.0000 |
| 658 | 21.9032 | 1.4208 | .4391 | .3874 | 1.4208 | .4162 | .3874 | 1.4208 | .4325 | .3874 | 1.0000 |
| 659 | .0255 | .0763 | .0800 | -.0389 | .0763 | .0609 | -.0389 | .0763 | .0724 | -.0389 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 41

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 661 | .166 | 1949 | .01 | -.00 | 101063 | .0765 | .0792 | -.0391 | -.0002 | .0004 | .0124 |
| 662 | .167 | 1975 | .02 | .00 | 101030 | .2756 | -1.7106 | -.2395 | -.0069 | -.0074 | .0108 |
| 663 | .167 | 1972 | -1.84 | .00 | 101057 | .1334 | -1.7098 | -.2707 | -.0059 | -.0068 | .0006 |
| 664 | .166 | 1955 | .05 | .00 | 101077 | .2841 | -1.7367 | -.2423 | -.0051 | -.0075 | .0091 |
| 665 | .166 | 1945 | 1.94 | .00 | 101087 | .4436 | -1.7616 | -.2198 | -.0059 | -.0069 | .0066 |
| 666 | .166 | 1952 | 3.91 | .00 | 101080 | .6110 | -1.7738 | -.1994 | -.0062 | -.0067 | .0082 |
| 667 | .167 | 1972 | 5.91 | .00 | 101060 | .7813 | -1.7798 | -.1729 | -.0055 | -.0065 | .0060 |
| 668 | .166 | 1945 | 7.89 | .00 | 101083 | .9367 | -1.8276 | -.1436 | -.0056 | -.0060 | .0051 |
| 669 | .166 | 1949 | 10.02 | .00 | 101083 | 1.0821 | -1.8526 | -.1142 | -.0050 | -.0061 | .0040 |
| 670 | .167 | 1968 | 12.10 | .00 | 101084 | 1.2408 | -1.8667 | -.0733 | -.0064 | -.0060 | .0062 |
| 671 | .168 | 2008 | 14.19 | .00 | 101074 | 1.3461 | -1.8648 | -.0364 | -.0076 | -.0067 | .0034 |
| 672 | .165 | 1926 | 16.17 | .00 | 101114 | 1.5353 | -1.9762 | -.0026 | -.0065 | -.0055 | .0007 |
| 673 | .166 | 1955 | 18.19 | .00 | 101087 | 1.6588 | -1.9756 | .0462 | -.0063 | -.0073 | .0032 |
| 674 | .167 | 1962 | 20.17 | .00 | 101080 | 1.8116 | -1.9571 | .0636 | -.0030 | -.0062 | .0050 |
| 675 | .167 | 1972 | 21.53 | .00 | 101070 | 1.9311 | -1.9346 | .0677 | -.0046 | -.0060 | .0079 |
| 676 | .166 | 1959 | .03 | .00 | 101070 | .2891 | -1.7487 | -.2478 | -.0057 | -.0077 | .0071 |
| 677 | .165 | 1926 | .01 | .00 | 101117 | .0835 | .0414 | -.0412 | -.0007 | -.0023 | -.0065 |

TEST 995 RUN 41

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 661 | .0115 | 0.0000 | .9888 | 3.6326 | 0.0000 | 0.0000 | 0.0000 | .0112 | .0077 |
| 662 | .0234 | 30.5296 | 2.8344 | 6.4933 | 1.8063 | 1.8473 | 0.0000 | -1.7979 | .0311 |
| 663 | -1.8394 | 30.4511 | 2.8354 | 6.4949 | 1.8142 | 1.8554 | 0.0000 | -1.8015 | .0312 |
| 664 | .0493 | 30.4476 | 2.8358 | 6.4955 | 1.8310 | 1.8726 | 0.0000 | -1.8184 | .0313 |
| 665 | 1.9433 | 30.4560 | 2.8447 | 6.5093 | 1.8446 | 1.8865 | 0.0000 | -1.8356 | .0314 |
| 666 | 3.9118 | 30.4269 | 2.8435 | 6.5075 | 1.8383 | 1.8801 | 0.0000 | -1.8250 | .0311 |
| 667 | 5.9103 | 30.4126 | 2.8448 | 6.5094 | 1.8205 | 1.8619 | 0.0000 | -1.8021 | .0307 |
| 668 | 7.8947 | 30.4101 | 2.8420 | 6.5052 | 1.8449 | 1.8868 | 0.0000 | -1.8166 | .0307 |
| 669 | 10.0187 | 30.4192 | 2.8458 | 6.5110 | 1.8444 | 1.8863 | 0.0000 | -1.8066 | .0299 |
| 670 | 12.1037 | 30.4262 | 2.8494 | 6.5166 | 1.8279 | 1.8695 | 0.0000 | -1.7793 | .0286 |
| 671 | 14.1886 | 30.4165 | 2.8508 | 6.5187 | 1.7940 | 1.8347 | 0.0000 | -1.7305 | .0267 |
| 672 | 16.1651 | 30.4295 | 2.8505 | 6.5162 | 1.8722 | 1.9148 | 0.0000 | -1.7883 | .0268 |
| 673 | 18.1949 | 30.4327 | 2.8568 | 6.5261 | 1.8469 | 1.8889 | 0.0000 | -1.7474 | .0264 |
| 674 | 20.1731 | 30.4295 | 2.8554 | 6.5259 | 1.8395 | 1.8813 | 0.0000 | -1.7193 | .0275 |
| 675 | 21.5298 | 30.3634 | 2.8503 | 6.5180 | 1.8262 | 1.8677 | 0.0000 | -1.6905 | .0286 |
| 676 | .0332 | 30.4713 | 2.8614 | 6.5352 | 1.8500 | 1.8920 | 0.0000 | -1.8405 | .0314 |
| 677 | .0121 | 0.0000 | .9774 | 3.6149 | 0.0000 | 0.0000 | 0.0000 | .0228 | .0076 |

TEST 995 RUN 41

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 661 | .0115 | .0764 | .0793 | -.0391 | .0764 | .0684 | -.0391 | .0764 | .0716 | -.0391 | 1.8000 |
| 662 | .0234 | .2763 | -1.7105 | -.2395 | .2756 | .0647 | -.0357 | .2763 | -1.6953 | -.2342 | 1.8000 |
| 663 | -1.8394 | .0784 | -1.7132 | -.2707 | .1367 | .0688 | -.0660 | .0802 | -1.6903 | -.2646 | 1.8000 |
| 664 | .0493 | .2856 | -1.7364 | -.2423 | .2840 | .0633 | -.0358 | .2855 | -1.6967 | -.2343 | 1.8000 |
| 665 | 1.9433 | .5031 | -1.7455 | -.2198 | .4406 | .0666 | -.0117 | .5002 | -1.6924 | -.2102 | 1.8000 |
| 666 | 3.9118 | .7306 | -1.7280 | -.1994 | .6052 | .0750 | .0080 | .7252 | -1.6809 | -.1906 | 1.8000 |
| 667 | 5.9103 | .9604 | -1.6899 | -.1729 | .7730 | .0902 | .0325 | .9542 | -1.6604 | -.1660 | 1.8000 |
| 668 | 7.8947 | 1.1789 | -1.6816 | -.1436 | .9255 | .1150 | .0645 | 1.1672 | -1.6283 | -.1341 | 1.8000 |
| 669 | 10.0187 | 1.3879 | -1.6361 | -.1142 | 1.0670 | .1502 | .0939 | 1.3732 | -1.5830 | -.1047 | 1.8000 |
| 670 | 12.1037 | 1.6046 | -1.5650 | -.0733 | 1.2213 | .1937 | .1329 | 1.5904 | -1.5272 | -.0656 | 1.8000 |
| 671 | 14.1886 | 1.7622 | -1.4779 | -.0364 | 1.3224 | .2346 | .1659 | 1.7538 | -1.4718 | -.0326 | 1.8000 |
| 672 | 16.1651 | 2.0248 | -1.4706 | -.0026 | 1.5035 | .3008 | .2086 | 1.9935 | -1.3896 | .0101 | 1.8000 |
| 673 | 18.1949 | 2.1927 | -1.3588 | .0462 | 1.6160 | .3694 | .2546 | 2.1656 | -1.3026 | .0560 | 1.8000 |
| 674 | 20.1731 | 2.3753 | -1.2123 | .0636 | 1.7410 | .4868 | .2711 | 2.3479 | -1.1652 | .0725 | 1.8000 |
| 675 | 21.5298 | 2.5064 | -1.0910 | .0677 | 1.8362 | .5793 | .2738 | 2.4820 | -1.0579 | .0752 | 1.8000 |
| 676 | .0332 | .2901 | -1.7486 | -.2478 | .2891 | .0700 | -.0391 | .2901 | -1.6900 | -.2377 | 1.8000 |
| 677 | .0121 | .0835 | .0414 | -.0412 | .0835 | .0110 | -.0412 | .0835 | .0338 | -.0412 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 42

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 683 | .167 | 1959 | .01 | -.00 | 100870 | .1804 | .0613 | -.0392 | .0039 | .0008 | .0532 |
| 684 | .166 | 1955 | -1.86 | -.00 | 100880 | .0347 | .0711 | -.0679 | .0042 | .0015 | .0420 |
| 685 | .167 | 1962 | -.00 | -.00 | 100874 | .1811 | .0618 | -.0406 | .0039 | .0008 | .0530 |
| 686 | .167 | 1968 | 1.95 | -.00 | 100870 | .3311 | .0482 | -.0142 | .0031 | .0008 | .0513 |
| 687 | .166 | 1955 | 3.89 | -.00 | 100887 | .4691 | .0361 | .0208 | .0037 | .0012 | .0487 |
| 688 | .167 | 1965 | 5.89 | -.00 | 100877 | .6120 | .0179 | .0532 | .0032 | .0015 | .0525 |
| 689 | .166 | 1955 | 7.92 | -.00 | 100887 | .7348 | -.0038 | .0855 | .0029 | .0012 | .0425 |
| 690 | .166 | 1942 | 10.00 | -.00 | 100901 | .8618 | -.0288 | .1322 | .0022 | .0006 | .0446 |
| 691 | .166 | 1952 | 12.09 | -.00 | 100894 | .9751 | -.0554 | .1786 | .0030 | .0009 | .0483 |
| 692 | .167 | 1968 | 14.18 | -.00 | 100877 | 1.1056 | -.0671 | .2247 | .0036 | .0003 | .0480 |
| 693 | .167 | 1962 | 16.17 | -.00 | 100887 | 1.2216 | -.0684 | .2687 | .0024 | .0002 | .0458 |
| 694 | .166 | 1949 | 18.18 | -.00 | 100901 | 1.3277 | -.0635 | .3157 | .0026 | .0007 | .0447 |
| 695 | .167 | 1962 | 20.16 | -.00 | 100887 | 1.4659 | -.0406 | .3363 | .0034 | .0005 | .0580 |
| 696 | .164 | 1906 | 21.54 | -.00 | 100944 | 1.5863 | -.0301 | .3446 | .0044 | .0019 | .0480 |
| 697 | .169 | 2025 | .03 | -.00 | 100817 | .1788 | .0643 | -.0402 | .0043 | .0009 | .0501 |

TEST 995 RUN 42

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 683 | .0143 | .2238 | .9800 | 3.6189 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0076 |
| 684 | -1.8609 | .2328 | .9812 | 3.6209 | 0.0000 | 0.0000 | 0.0000 | .0185 | .0076 |
| 685 | -.0042 | .2237 | .9814 | 3.6211 | 0.0000 | 0.0000 | 0.0000 | .0184 | .0077 |
| 686 | 1.9505 | .2251 | .9810 | 3.6205 | 0.0000 | 0.0000 | 0.0000 | .0137 | .0077 |
| 687 | 3.8875 | .2251 | .9809 | 3.6204 | 0.0000 | 0.0000 | 0.0000 | .0189 | .0077 |
| 688 | 5.8950 | .2178 | .9809 | 3.6204 | 0.0000 | 0.0000 | 0.0000 | .0187 | .0075 |
| 689 | 7.9174 | .2131 | .9809 | 3.6204 | 0.0000 | 0.0000 | 0.0000 | .0187 | .0075 |
| 690 | 9.9990 | .2069 | .9814 | 3.6211 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0075 |
| 691 | 12.0868 | .2225 | .9811 | 3.6207 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0078 |
| 692 | 14.1839 | .2270 | .9809 | 3.6204 | 0.0000 | 0.0000 | 0.0000 | .0182 | .0079 |
| 693 | 16.1719 | .2179 | .9812 | 3.6209 | 0.0000 | 0.0000 | 0.0000 | .0178 | .0077 |
| 694 | 18.1800 | .2212 | .9781 | 3.6161 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0069 |
| 695 | 20.1557 | .2166 | .9706 | 3.6045 | 0.0000 | 0.0000 | 0.0000 | .0272 | .0081 |
| 696 | 21.5363 | .2212 | .9695 | 3.6027 | 0.0000 | 0.0000 | 0.0000 | .0288 | .0089 |
| 697 | .0307 | .2212 | .9812 | 3.6209 | 0.0000 | 0.0000 | 0.0000 | .0179 | .0079 |

TEST 995 RUN 42

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 683 | .0143 | .1804 | .0614 | -.0392 | .1804 | .0341 | -.0392 | .1804 | .0538 | -.0392 | 1.0000 |
| 684 | -1.8609 | .0370 | .0699 | -.0679 | .0370 | .0437 | -.0679 | .0370 | .0623 | -.0679 | 1.0000 |
| 685 | -.0042 | .1811 | .0618 | -.0406 | .1811 | .0357 | -.0406 | .1811 | .0541 | -.0406 | 1.0000 |
| 686 | 1.9505 | .3292 | .0594 | -.0142 | .3292 | .0331 | -.0142 | .3292 | .0517 | -.0142 | 1.0000 |
| 687 | 3.8875 | .4656 | .0678 | .0208 | .4656 | .0413 | .0208 | .4656 | .0601 | .0208 | 1.0000 |
| 688 | 5.8950 | .6069 | .0806 | .0532 | .6069 | .0544 | .0532 | .6069 | .0731 | .0532 | 1.0000 |
| 689 | 7.9174 | .7283 | .0974 | .0855 | .7283 | .0712 | .0855 | .7283 | .0899 | .0855 | 1.0000 |
| 690 | 9.9990 | .8537 | .1212 | .1322 | .8537 | .0954 | .1322 | .8537 | .1137 | .1322 | 1.0000 |
| 691 | 12.0868 | .9650 | .1500 | .1786 | .9650 | .1240 | .1786 | .9650 | .1423 | .1786 | 1.0000 |
| 692 | 14.1839 | 1.0884 | .2058 | .2247 | 1.0884 | .1798 | .2247 | 1.0884 | .1980 | .2247 | 1.0000 |
| 693 | 16.1719 | 1.1923 | .2745 | .2687 | 1.1923 | .2491 | .2687 | 1.1923 | .2668 | .2687 | 1.0000 |
| 694 | 18.1800 | 1.2812 | .3539 | .3157 | 1.2812 | .3264 | .3157 | 1.2812 | .3470 | .3157 | 1.0000 |
| 695 | 20.1557 | 1.3901 | .4670 | .3363 | 1.3901 | .4318 | .3363 | 1.3901 | .4589 | .3363 | 1.0000 |
| 696 | 21.5363 | 1.4866 | .5543 | .3446 | 1.4866 | .5166 | .3446 | 1.4866 | .5454 | .3446 | 1.0000 |
| 697 | .0307 | .1787 | .0644 | -.0402 | .1787 | .0385 | -.0402 | .1787 | .0565 | -.0402 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 43

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 698 | .166 | 1942 | .01 | -.00 | 100894 | .1880 | .0645 | -.0376 | .0044 | .0009 | .0501 |
| 699 | .167 | 1959 | .02 | -.00 | 100863 | .3560 | -1.6412 | -.2111 | -.0001 | -.0057 | .0554 |
| 700 | .167 | 1972 | -1.85 | -.00 | 100850 | .1893 | -1.6237 | -.2377 | -.0004 | -.0052 | .0451 |
| 701 | .179 | 2249 | .05 | -.00 | 100569 | .3307 | -1.4298 | -.1919 | -.0006 | -.0049 | .0503 |
| 702 | .176 | 2176 | 1.99 | -.00 | 100639 | .5000 | -1.4921 | -.1737 | -.0006 | -.0053 | .0502 |
| 703 | .168 | 1985 | 3.92 | -.00 | 100833 | .6577 | -1.6436 | -.1540 | .0031 | -.0032 | .0528 |
| 704 | .164 | 1899 | 5.90 | -.00 | 100917 | .8188 | -1.7352 | -.1308 | .0011 | -.0030 | .0530 |
| 705 | .165 | 1932 | 7.96 | -.00 | 100877 | .9596 | -1.7273 | -.0950 | .0005 | -.0026 | .0524 |
| 706 | .166 | 1939 | 9.98 | -.00 | 100863 | 1.1060 | -1.7428 | -.0628 | .0001 | -.0032 | .0525 |
| 707 | .164 | 1909 | 12.10 | -.00 | 100887 | 1.2621 | -1.7951 | -.0239 | .0007 | -.0036 | .0512 |
| 708 | .167 | 1962 | 14.18 | -.00 | 100901 | 1.3734 | -1.7559 | .0136 | .0013 | -.0040 | .0510 |
| 709 | .167 | 1965 | 16.17 | -.00 | 100823 | 1.5744 | -1.7527 | .0402 | .0005 | -.0031 | .0462 |
| 710 | .165 | 1912 | 18.21 | -.00 | 100876 | 1.7119 | -1.7950 | .0596 | .0010 | -.0031 | .0558 |
| 711 | .167 | 1959 | 20.16 | -.00 | 100830 | 1.8607 | -1.7445 | .0813 | .0022 | -.0024 | .0500 |
| 712 | .164 | 1906 | 21.60 | -.00 | 100890 | 2.0133 | -1.7877 | .0791 | .0031 | -.0021 | .0536 |
| 713 | .167 | 1975 | .03 | -.00 | 100809 | .3505 | -1.6264 | -.2111 | .0007 | -.0043 | .0529 |
| 715 | .166 | 1955 | .00 | -.00 | 100840 | .1795 | .0613 | -.0385 | .0044 | .0019 | .0557 |

TEST 995 RUN 43

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 698 | .0102 | .2212 | .9815 | 3.6213 | 0.0000 | 0.0000 | 0.0000 | .0184 | .0079 |
| 699 | .0185 | 29.4421 | 2.7285 | 6.3292 | 1.7334 | 1.7728 | 0.0000 | -1.7057 | .0321 |
| 700 | -1.8503 | 29.4109 | 2.7235 | 6.3215 | 1.7213 | 1.7604 | 0.0000 | -1.6883 | .0320 |
| 701 | .0497 | 29.4081 | 2.7368 | 6.3420 | 1.5139 | 1.5483 | 0.0000 | -1.4882 | .0286 |
| 702 | 1.9854 | 29.3745 | 2.7370 | 6.3424 | 1.5636 | 1.5991 | 0.0000 | -1.5382 | .0294 |
| 703 | 3.9248 | 29.2909 | 2.7294 | 6.3306 | 1.7074 | 1.7462 | 0.0000 | -1.6794 | .0317 |
| 704 | 5.9011 | 29.2575 | 2.7296 | 6.3309 | 1.7834 | 1.8240 | 0.0000 | -1.7518 | .0320 |
| 705 | 7.9627 | 29.2543 | 2.7308 | 6.3328 | 1.7546 | 1.7945 | 0.0000 | -1.7148 | .0313 |
| 706 | 9.9831 | 29.2072 | 2.7283 | 6.3288 | 1.7450 | 1.7846 | 0.0000 | -1.6968 | .0303 |
| 707 | 12.0995 | 29.2166 | 2.7296 | 6.3309 | 1.7771 | 1.8175 | 0.0000 | -1.7125 | .0297 |
| 708 | 14.1823 | 29.2216 | 2.7308 | 6.3327 | 1.7301 | 1.7694 | 0.0000 | -1.6537 | .0278 |
| 709 | 16.1688 | 29.2081 | 2.7299 | 6.3314 | 1.7267 | 1.7660 | 0.0000 | -1.6334 | .0276 |
| 710 | 18.2076 | 29.2169 | 2.7294 | 6.3305 | 1.7765 | 1.8169 | 0.0000 | -1.6605 | .0286 |
| 711 | 20.1581 | 29.1937 | 2.7302 | 6.3318 | 1.7343 | 1.7737 | 0.0000 | -1.6022 | .0293 |
| 712 | 21.5967 | 29.2832 | 2.7316 | 6.3340 | 1.7889 | 1.8296 | 0.0000 | -1.6333 | .0315 |
| 713 | .0252 | 29.1882 | 2.7292 | 6.3303 | 1.7211 | 1.7602 | 0.0000 | -1.6912 | .0314 |
| 715 | .0027 | .1716 | .9714 | 3.6057 | 0.0000 | 0.0000 | 0.0000 | .0282 | .0078 |

TEST 995 RUN 43

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 698 | .0102 | .1880 | .0645 | -.0376 | .1880 | .0382 | -.0376 | .1880 | .0566 | -.0376 | 1.0000 |
| 699 | .0185 | .3566 | -1.6411 | -.2111 | .3560 | .0602 | -.0155 | .3566 | -1.6998 | -.2141 | 1.8000 |
| 700 | -1.8503 | .1367 | -1.6289 | -.2377 | .1923 | .0595 | -.0435 | .1355 | -1.6996 | -.2420 | 1.8000 |
| 701 | .0497 | .3319 | -1.4295 | -.1919 | .3306 | .0558 | -.0211 | .3321 | -1.7042 | -.2197 | 1.8000 |
| 702 | 1.9854 | .5514 | -1.4739 | -.1737 | .4972 | .0594 | .0027 | .5582 | -1.6995 | -.1958 | 1.8000 |
| 703 | 3.9248 | .7687 | -1.5947 | -.1540 | .6518 | .0770 | .0386 | .7723 | -1.6789 | -.1599 | 1.8000 |
| 704 | 5.9011 | .9929 | -1.6418 | -.1308 | .8095 | .1002 | .0704 | .9905 | -1.6505 | -.1282 | 1.8000 |
| 705 | 7.9627 | 1.1897 | -1.5777 | -.0950 | .9466 | .1287 | .1029 | 1.1904 | -1.6143 | -.0956 | 1.8000 |
| 706 | 9.9831 | 1.3914 | -1.5247 | -.0628 | 1.0889 | .1635 | .1340 | 1.3940 | -1.5698 | -.0645 | 1.8000 |
| 707 | 12.0995 | 1.6104 | -1.4906 | -.0239 | 1.2379 | .2173 | .1766 | 1.6068 | -1.5036 | -.0220 | 1.8000 |
| 708 | 14.1823 | 1.7617 | -1.3659 | .0136 | 1.3378 | .2837 | .2088 | 1.7690 | -1.4227 | .0103 | 1.8000 |
| 709 | 16.1688 | 2.0002 | -1.2450 | .0402 | 1.5194 | .3858 | .2350 | 2.0095 | -1.3046 | .0365 | 1.8000 |
| 710 | 18.2076 | 2.1871 | -1.1702 | .0596 | 1.6320 | .4887 | .2600 | 2.1819 | -1.1631 | .0615 | 1.8000 |
| 711 | 20.1581 | 2.3479 | -.9964 | .0813 | 1.7502 | .6023 | .2770 | 2.3567 | -1.0499 | .0784 | 1.8000 |
| 712 | 21.5967 | 2.5300 | -.9212 | .0791 | 1.8716 | .7107 | .2809 | 2.5194 | -.9257 | .0823 | 1.8000 |
| 713 | .0252 | .3512 | -1.6262 | -.2111 | .3504 | .0635 | -.0169 | .3512 | -1.6965 | -.2155 | 1.8000 |
| 715 | .0027 | .1795 | .0613 | -.0385 | .1795 | .0252 | -.0385 | .1795 | .0535 | -.0385 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 44

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 718 | .166 | 1952 | .02 | .00 | 100874 | .1493 | .0530 | -.0482 | -.0013 | -.0002 | .0068 |
| 719 | .161 | 1843 | .05 | -.00 | 100954 | .1400 | .0555 | -.0443 | -.0012 | -.0004 | .0084 |
| 720 | .166 | 1939 | .07 | -.00 | 100853 | .3320 | -1.7344 | -.2360 | -.0018 | .0021 | .0153 |
| 721 | .166 | 1939 | -1.85 | -.00 | 100836 | .1673 | -1.7285 | -.2632 | -.0019 | .0024 | .0052 |
| 722 | .167 | 1978 | .08 | -.00 | 100857 | .3273 | -1.6918 | -.2339 | -.0015 | .0021 | .0137 |
| 723 | .167 | 1962 | 1.95 | -.00 | 100874 | .4916 | -1.7170 | -.2110 | -.0013 | .0022 | .0142 |
| 724 | .167 | 1978 | 3.92 | -.00 | 100850 | .6398 | -1.7137 | -.1790 | -.0011 | .0029 | .0113 |
| 725 | .167 | 1965 | 5.92 | -.00 | 100864 | .7871 | -1.7394 | -.1484 | -.0008 | .0034 | .0096 |
| 726 | .166 | 1942 | 7.96 | -.00 | 100890 | .9294 | -1.7812 | -.1188 | -.0017 | .0037 | .0089 |
| 727 | .164 | 1899 | 10.00 | -.00 | 100934 | 1.0811 | -1.8430 | -.0896 | -.0020 | .0028 | .0128 |
| 728 | .166 | 1935 | 12.06 | -.00 | 100900 | 1.2313 | -1.8358 | -.0452 | -.0009 | .0025 | .0127 |
| 729 | .166 | 1935 | 14.20 | -.00 | 100904 | 1.3890 | -1.8464 | -.0085 | -.0007 | .0022 | .0140 |
| 730 | .164 | 1892 | 16.15 | .00 | 100951 | 1.5546 | -1.8816 | .0080 | -.0018 | .0019 | -.0017 |
| 731 | .164 | 1906 | 18.21 | -.00 | 100941 | 1.6819 | -1.8654 | .0326 | -.0009 | .0036 | .0108 |
| 732 | .167 | 1959 | 20.15 | -.00 | 100891 | 1.8320 | -1.8071 | .0540 | .0002 | .0041 | .0152 |
| 733 | .166 | 1952 | 21.51 | -.00 | 100901 | 1.9834 | -1.8088 | .0573 | .0014 | .0046 | .0128 |
| 734 | .167 | 1978 | .04 | -.00 | 100870 | .3228 | -1.6873 | -.2342 | -.0021 | .0017 | .0116 |
| 735 | .166 | 1955 | .02 | -.00 | 100874 | .1326 | .0355 | -.0496 | -.0003 | -.0002 | .0076 |
| 736 | .015 | 17 | .01 | .00 | 102866 | .8163 | -1.2784 | -.2205 | .0232 | -.0431 | .5777 |

TEST 995 RUN 44

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CHU,N | CHU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 718 | .0163 | 0.0000 | .9816 | 3.6214 | 0.0000 | 0.0000 | 0.0000 | .0182 | .0081 |
| 719 | .0526 | 0.0000 | .9880 | 3.6314 | 0.0000 | 0.0000 | 0.0000 | .0126 | .0080 |
| 720 | .0691 | 29.7991 | 2.7893 | 6.4235 | 1.7766 | 1.8170 | 0.0000 | -1.7836 | .0298 |
| 721 | -1.8497 | 29.7764 | 2.7933 | 6.4297 | 1.7795 | 1.8199 | 0.0000 | -1.7864 | .0298 |
| 722 | .0782 | 29.6085 | 2.7887 | 6.4224 | 1.7424 | 1.7820 | 0.0000 | -1.7473 | .0289 |
| 723 | 1.9517 | 29.5780 | 2.7891 | 6.4232 | 1.7572 | 1.7971 | 0.0000 | -1.7617 | .0290 |
| 724 | 3.9216 | 29.6345 | 2.7921 | 6.4278 | 1.7454 | 1.7850 | 0.0000 | -1.7464 | .0288 |
| 725 | 5.9151 | 29.5945 | 2.7880 | 6.4214 | 1.7541 | 1.7940 | 0.0000 | -1.7491 | .0289 |
| 726 | 7.9623 | 29.5653 | 2.7892 | 6.4232 | 1.7731 | 1.8134 | 0.0000 | -1.7639 | .0288 |
| 727 | 10.0017 | 29.6276 | 2.7905 | 6.4252 | 1.8185 | 1.8599 | 0.0000 | -1.7957 | .0284 |
| 728 | 12.0626 | 29.5831 | 2.7873 | 6.4204 | 1.7823 | 1.8228 | 0.0000 | -1.7460 | .0269 |
| 729 | 14.2020 | 29.6061 | 2.7912 | 6.4264 | 1.7849 | 1.8255 | 0.0000 | -1.7347 | .0260 |
| 730 | 16.1532 | 29.5717 | 2.7868 | 6.4195 | 1.8221 | 1.8636 | 0.0000 | -1.7542 | .0263 |
| 731 | 18.2120 | 29.5527 | 2.7874 | 6.4205 | 1.8072 | 1.8483 | 0.0000 | -1.7233 | .0266 |
| 732 | 20.1472 | 29.5473 | 2.7872 | 6.4202 | 1.7594 | 1.7994 | 0.0000 | -1.6562 | .0276 |
| 733 | 21.5058 | 29.5405 | 2.7872 | 6.4201 | 1.7655 | 1.8056 | 0.0000 | -1.6470 | .0290 |
| 734 | .0408 | 29.5219 | 2.7867 | 6.4194 | 1.7411 | 1.7806 | 0.0000 | -1.7456 | .0288 |
| 735 | .0175 | 0.0000 | .9811 | 3.6208 | 0.0000 | 0.0000 | 0.0000 | .0186 | .0074 |
| 736 | .0072 | 0.0000 | 1.0036 | 3.6556 | 0.0000 | 0.0000 | 0.0000 | -.4260 | -.0331 |

TEST 995 RUN 44

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CHU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 718 | .0163 | .1492 | .0531 | -.0482 | .1492 | .0267 | -.0482 | .1492 | .0450 | -.0482 | 1.0000 |
| 719 | .0526 | .1399 | .0557 | -.0443 | .1399 | .0351 | -.0443 | .1399 | .0476 | -.0443 | 1.0000 |
| 720 | .0691 | .3341 | -1.7340 | -.2360 | .3319 | .0128 | -.0356 | .3341 | -1.7472 | -.2341 | 1.8000 |
| 721 | -1.8497 | .1114 | -1.7330 | -.2632 | .1689 | .0157 | -.0625 | .1121 | -1.7434 | -.2610 | 1.8000 |
| 722 | .0782 | .3296 | -1.6914 | -.2339 | .3272 | .0221 | -.0374 | .3296 | -1.7379 | -.2359 | 1.8000 |
| 723 | 1.9517 | .5498 | -1.6993 | -.2110 | .4899 | .0278 | -.0127 | .5499 | -1.7311 | -.2113 | 1.8000 |
| 724 | 3.9216 | .7555 | -1.6659 | -.1790 | .6362 | .0466 | .0179 | .7565 | -1.7092 | -.1806 | 1.8000 |
| 725 | 5.9151 | .9621 | -1.6490 | -.1484 | .7814 | .0669 | .0495 | .9627 | -1.6837 | -.1491 | 1.8000 |
| 726 | 7.9623 | 1.1672 | -1.6353 | -.1188 | .9216 | .0920 | .0813 | 1.1654 | -1.6510 | -.1173 | 1.8000 |
| 727 | 10.0017 | 1.3848 | -1.6273 | -.0896 | 1.0689 | .1353 | .1155 | 1.3746 | -1.5980 | -.0830 | 1.8000 |
| 728 | 12.0626 | 1.5878 | -1.5360 | -.0452 | 1.2153 | .1781 | .1559 | 1.5831 | -1.5430 | -.0427 | 1.8000 |
| 729 | 14.2020 | 1.7996 | -1.4492 | -.0085 | 1.3617 | .2552 | .1929 | 1.7935 | -1.4510 | -.0056 | 1.8000 |
| 730 | 16.1532 | 2.0167 | -1.3748 | .0080 | 1.5098 | .3491 | .2136 | 1.9994 | -1.3414 | .0158 | 1.8000 |
| 731 | 18.2120 | 2.1806 | -1.2463 | .0326 | 1.6158 | .4438 | .2365 | 2.1659 | -1.2281 | .0379 | 1.8000 |
| 732 | 20.1472 | 2.3423 | -1.0655 | .0540 | 1.7363 | .5586 | .2524 | 2.3425 | -1.0937 | .0539 | 1.8000 |
| 733 | 21.5058 | 2.5085 | -.9558 | .0573 | 1.8612 | .6578 | .2565 | 2.5064 | -.9796 | .0579 | 1.8000 |
| 734 | .0408 | .3240 | -1.6871 | -.2342 | .3228 | .0251 | -.0378 | .3240 | -1.7349 | -.2363 | 1.8000 |
| 735 | .0175 | .1326 | .0355 | -.0496 | .1326 | .0094 | -.0496 | .1326 | .0281 | -.0496 | 1.0000 |
| 736 | .0072 | .8165 | -1.2783 | -.2205 | .8165 | -.8191 | -.2205 | .8165 | -1.2452 | -.2205 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 45

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 747 | .166 | 1952 | .01 | -.00 | 101158 | .4270 | .0708 | -.1425 | -.0022 | -.0001 | .0010 |
| 748 | .166 | 1952 | -1.83 | .00 | 101155 | .2827 | .0827 | -.1684 | -.0016 | .0004 | .0042 |
| 749 | .166 | 1952 | .04 | .00 | 101155 | .4328 | .0725 | -.1424 | -.0015 | -.0006 | .0006 |
| 750 | .166 | 1952 | 1.95 | -.00 | 101172 | .5665 | .0608 | -.1095 | -.0017 | .0002 | .0039 |
| 751 | .168 | 1988 | 3.89 | -.00 | 101128 | .6956 | .0486 | -.0728 | -.0009 | .0005 | .0045 |
| 752 | .167 | 1972 | 5.90 | -.00 | 101145 | .8134 | .0278 | -.0310 | -.0026 | .0001 | .0083 |
| 753 | .167 | 1975 | 7.92 | -.00 | 101152 | .9298 | .0058 | .0071 | -.0008 | -.0001 | .0082 |
| 754 | .166 | 1962 | 9.98 | -.00 | 101148 | 1.0317 | -.0224 | .0582 | .0004 | -.0007 | .0106 |
| 755 | .167 | 1965 | 12.06 | -.00 | 101145 | 1.1413 | -.0442 | .1108 | -.0014 | -.0012 | .0095 |
| 756 | .166 | 1959 | 14.16 | -.00 | 101158 | 1.2562 | -.0465 | .1579 | -.0014 | -.0013 | .0054 |
| 757 | .169 | 2021 | .16 | -.00 | 101152 | 1.3060 | -.0388 | .2016 | -.0030 | -.0008 | .0030 |
| 758 | .167 | 1968 | .12 | -.00 | 101155 | 1.4371 | -.0254 | .2502 | -.0020 | .0002 | .0008 |
| 759 | .166 | 1945 | 20.14 | -.00 | 101161 | 1.5701 | .0050 | .2711 | -.0008 | .0014 | -.0021 |
| 760 | .165 | 1939 | 21.89 | -.00 | 101182 | 1.6975 | .0060 | .2988 | -.0022 | .0012 | .0007 |
| 761 | .166 | 1955 | .03 | -.00 | 101158 | .4285 | .0740 | -.1422 | -.0007 | -.0014 | .0206 |

TEST 995 RUN 45

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 747 | .0116 | 0.0000 | .9765 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0234 | .0081 |
| 748 | -1.8267 | 0.0000 | .9800 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0082 |
| 749 | .0397 | 0.0000 | .9790 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0209 | .0081 |
| 750 | 1.9528 | 0.0000 | .9793 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0080 |
| 751 | 3.8938 | 0.0000 | .9793 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0201 | .0078 |
| 752 | 5.8986 | 0.0000 | .9805 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0191 | .0076 |
| 753 | 7.9187 | 0.0000 | .9805 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0190 | .0074 |
| 754 | 9.9838 | 0.0000 | .9816 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0179 | .0072 |
| 755 | 12.0569 | 0.0000 | .9829 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0165 | .0070 |
| 756 | 14.1601 | 0.0000 | .9832 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0161 | .0070 |
| 757 | 16.1567 | 0.0000 | .9820 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0166 | .0065 |
| 758 | 18.1223 | 0.0000 | .9791 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0195 | .0069 |
| 759 | 20.1400 | 0.0000 | .9733 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0250 | .0090 |
| 760 | 21.8860 | 0.0000 | .9717 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0263 | .0094 |
| 761 | .0279 | 0.0000 | .9847 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0151 | .0079 |

TEST 995 RUN 45

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 747 | .0116 | .4270 | .0709 | -.1425 | .4270 | .0394 | -.1425 | .4270 | .0628 | -.1425 | 1.0000 |
| 748 | -1.8267 | .2852 | .0737 | -.1684 | .2852 | .0457 | -.1684 | .2852 | .0655 | -.1684 | 1.0000 |
| 749 | .0397 | .4328 | .0728 | -.1424 | .4328 | .0439 | -.1424 | .4328 | .0647 | -.1424 | 1.0000 |
| 750 | 1.9528 | .5641 | .0800 | -.1095 | .5641 | .0515 | -.1095 | .5641 | .0721 | -.1095 | 1.0000 |
| 751 | 3.8938 | .6907 | .0957 | -.0728 | .6907 | .0679 | -.0728 | .6907 | .0860 | -.0728 | 1.0000 |
| 752 | 5.8986 | .8062 | .1113 | -.0310 | .8062 | .0846 | -.0310 | .8062 | .1037 | -.0310 | 1.0000 |
| 753 | 7.9187 | .9202 | .1339 | .0071 | .9202 | .1076 | .0071 | .9202 | .1265 | .0071 | 1.0000 |
| 754 | 9.9838 | 1.0200 | .1569 | .0582 | 1.0200 | .1317 | .0582 | 1.0200 | .1496 | .0582 | 1.0000 |
| 755 | 12.0569 | 1.1254 | .1952 | .1108 | 1.1254 | .1717 | .1108 | 1.1254 | .1882 | .1108 | 1.0000 |
| 756 | 14.1601 | 1.2294 | .2622 | .1579 | 1.2294 | .2391 | .1579 | 1.2294 | .2552 | .1579 | 1.0000 |
| 757 | 16.1567 | 1.2652 | .3261 | .2016 | 1.2652 | .3038 | .2016 | 1.2652 | .3196 | .2016 | 1.0000 |
| 758 | 18.1223 | 1.3737 | .4229 | .2502 | 1.3737 | .3965 | .2502 | 1.3737 | .4160 | .2502 | 1.0000 |
| 759 | 20.1400 | 1.4724 | .5453 | .2711 | 1.4724 | .5113 | .2711 | 1.4724 | .5363 | .2711 | 1.0000 |
| 760 | 21.8860 | 1.5722 | .6402 | .2988 | 1.5722 | .6045 | .2988 | 1.5722 | .6308 | .2988 | 1.0000 |
| 761 | .0279 | .4285 | .0742 | -.1422 | .4285 | .0512 | -.1422 | .4285 | .0663 | -.1422 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 46

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 762 | .166 | 1949 | .02 | -.00 | 101161 | .4319 | .0726 | -.1429 | -.0013 | -.0002 | .0006 |
| 763 | .170 | 2035 | .09 | -.00 | 101149 | 1.0790 | -1.4811 | -.5573 | -.0013 | .0033 | .0036 |
| 764 | .168 | 2005 | -1.85 | -.00 | 101152 | .9309 | -1.4924 | -.5886 | -.0016 | .0037 | .0083 |
| 765 | .166 | 1962 | .05 | -.00 | 101155 | 1.1215 | -1.5381 | -.5776 | -.0009 | .0036 | .0036 |
| 766 | .168 | 1988 | 1.99 | -.00 | 101155 | 1.2376 | -1.5271 | -.5401 | -.0011 | .0037 | .0045 |
| 767 | .168 | 1988 | 3.93 | -.00 | 101125 | 1.3847 | -1.5416 | -.5097 | -.0024 | .0037 | .0058 |
| 768 | .168 | 1988 | 5.94 | -.00 | 101155 | 1.5082 | -1.5626 | -.4711 | -.0021 | .0037 | .0055 |
| 769 | .166 | 1962 | 7.95 | -.00 | 101165 | 1.6527 | -1.6074 | -.4397 | -.0014 | .0035 | .0058 |
| 770 | .167 | 1975 | 10.03 | -.00 | 101162 | 1.7823 | -1.6212 | -.3954 | .0011 | .0030 | .0018 |
| 771 | .166 | 1962 | 12.12 | -.00 | 101168 | 1.9295 | -1.6528 | -.3503 | -.0024 | .0018 | .0056 |
| 772 | .167 | 1978 | 14.22 | -.00 | 101162 | 2.0358 | -1.6309 | -.3080 | -.0012 | .0029 | .0036 |
| 773 | .169 | 2031 | 16.21 | -.00 | 101142 | 2.0843 | -1.5784 | -.2565 | -.0019 | .0039 | .0000 |
| 774 | .166 | 1959 | 18.20 | -.00 | 101165 | 2.2217 | -1.6208 | -.2238 | -.0015 | .0054 | -.0019 |
| 775 | .168 | 2002 | 20.17 | -.00 | 101128 | 2.3755 | -1.5765 | -.1937 | .0026 | .0060 | -.0033 |
| 776 | .167 | 1975 | 21.59 | -.00 | 101148 | 2.4981 | -1.5966 | -.1753 | .0018 | .0067 | -.0048 |
| 777 | .168 | 2008 | .06 | -.00 | 101128 | 1.0966 | -1.4944 | -.5677 | -.0012 | .0034 | .0025 |
| 778 | .167 | 1965 | .02 | -.00 | 101168 | .4341 | .0566 | -.1479 | -.0009 | .0002 | .0085 |
| 779 | .010 | 0 | -.01 | .00 | 103164 | -.5307 | -1.3455 | -5.9923 | 1.7386 | -1.2471 | -.3497 |

TEST 995 RUN 46

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 762 | .0188 | 0.0000 | .9852 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0147 | .0080 |
| 763 | .0865 | 28.6035 | 2.6625 | 20.4000 | 1.5897 | 1.6259 | 0.0000 | -1.5838 | .0132 |
| 764 | -1.8482 | 28.6124 | 2.6704 | 20.4000 | 1.6198 | 1.6566 | 0.0000 | -1.6141 | .0135 |
| 765 | .0544 | 28.6054 | 2.6713 | 20.4000 | 1.6570 | 1.6947 | 0.0000 | -1.6511 | .0137 |
| 766 | 1.9898 | 28.5834 | 2.6739 | 20.4000 | 1.6345 | 1.6717 | 0.0000 | -1.6308 | .0134 |
| 767 | 3.9286 | 28.5729 | 2.6705 | 20.4000 | 1.6358 | 1.6730 | 0.0000 | -1.6241 | .0132 |
| 768 | 5.9414 | 28.5294 | 2.6680 | 20.4000 | 1.6329 | 1.6700 | 0.0000 | -1.6173 | .0129 |
| 769 | 7.9544 | 28.5550 | 2.6732 | 20.4000 | 1.6590 | 1.6967 | 0.0000 | -1.6373 | .0127 |
| 770 | 10.0257 | 28.5350 | 2.6731 | 20.4000 | 1.6472 | 1.6846 | 0.0000 | -1.6169 | .0126 |
| 771 | 12.1232 | 28.5428 | 2.6720 | 20.4000 | 1.6607 | 1.6984 | 0.0000 | -1.6152 | .0130 |
| 772 | 14.2156 | 28.5285 | 2.6680 | 20.4000 | 1.6451 | 1.6825 | 0.0000 | -1.5843 | .0146 |
| 773 | 16.2146 | 28.5199 | 2.6710 | 20.4000 | 1.6032 | 1.6397 | 0.0000 | -1.5309 | .0173 |
| 774 | 18.1950 | 28.5163 | 2.6698 | 20.4000 | 1.6629 | 1.7007 | 0.0000 | -1.5700 | .0216 |
| 775 | 20.1689 | 28.5133 | 2.6695 | 20.4000 | 1.6271 | 1.6640 | 0.0000 | -1.5172 | .0241 |
| 776 | 21.5893 | 28.5162 | 2.6684 | 20.4000 | 1.6498 | 1.6873 | 0.0000 | -1.5223 | .0259 |
| 777 | .0634 | 28.4764 | 2.6685 | 20.4000 | 1.6215 | 1.6584 | 0.0000 | -1.6100 | .0135 |
| 778 | .0189 | 0.0000 | .9685 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0310 | .0076 |
| 779 | -.0143 | 0.0000 | .9956 | 22.3676 | 0.0000 | 0.0000 | 0.0000 | .1611 | 0.0000 |

TEST 995 RUN 46

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 762 | .0188 | .4318 | .0727 | -.1429 | .4318 | .0500 | -.1429 | .4318 | .0647 | -.1429 | 1.8000 |
| 763 | .0865 | 1.0812 | -1.4794 | -.5573 | 1.0788 | .0971 | -.3780 | 1.0814 | -1.6629 | -.5765 | 1.8000 |
| 764 | -1.8482 | .8822 | -1.5216 | -.5886 | .9345 | .0838 | -.4058 | .8777 | -1.6753 | -.6044 | 1.8000 |
| 765 | .0544 | 1.1230 | -1.5370 | -.5776 | 1.1214 | .1063 | -.3906 | 1.1231 | -1.6537 | -.5892 | 1.8000 |
| 766 | 1.9898 | 1.2899 | -1.4832 | -.5401 | 1.2331 | .1369 | -.3557 | 1.2942 | -1.6220 | -.5543 | 1.8000 |
| 767 | 3.9286 | 1.4870 | -1.4431 | -.5097 | 1.3750 | .1757 | -.3252 | 1.4955 | -1.5802 | -.5237 | 1.8000 |
| 768 | 5.9414 | 1.6619 | -1.3981 | -.4711 | 1.4928 | .2132 | -.2869 | 1.6750 | -1.5374 | -.4854 | 1.8000 |
| 769 | 7.9544 | 1.8592 | -1.3632 | -.4397 | 1.6296 | .2671 | -.2526 | 1.8732 | -1.4760 | -.4511 | 1.8000 |
| 770 | 10.0257 | 2.0374 | -1.2862 | -.3954 | 1.7506 | .3232 | -.2095 | 2.0570 | -1.4099 | -.4081 | 1.8000 |
| 771 | 12.1232 | 2.2335 | -1.2107 | -.3503 | 1.8848 | .3999 | -.1629 | 2.2544 | -1.3208 | -.3615 | 1.8000 |
| 772 | 14.2156 | 2.3739 | -1.0810 | -.3080 | 1.9699 | .4991 | -.1224 | 2.4021 | -1.2070 | -.3210 | 1.8000 |
| 773 | 16.2146 | 2.4421 | -.9336 | -.2565 | 1.9944 | .5886 | -.0756 | 2.4859 | -1.1014 | -.2742 | 1.8000 |
| 774 | 18.1950 | 2.6168 | -.8461 | -.2238 | 2.0975 | .7121 | -.0362 | 2.6471 | -.9599 | -.2347 | 1.8000 |
| 775 | 20.1689 | 2.7734 | -.6608 | -.1937 | 2.2124 | .8423 | -.0101 | 2.8192 | -.8097 | -.2087 | 1.8000 |
| 776 | 21.5893 | 2.9104 | -.5654 | -.1753 | 2.3033 | .9428 | .0109 | 2.9509 | -.6938 | -.1877 | 1.8000 |
| 777 | .0634 | 1.0982 | -1.4931 | -.5677 | 1.0965 | .1149 | -.3848 | 1.0984 | -1.6451 | -.5833 | 1.8000 |
| 778 | .0189 | .4340 | .0568 | -.1479 | .4340 | .0181 | -.1479 | .4340 | .0492 | -.1479 | 1.0000 |
| 779 | -.0143 | -.5311 | -1.3454 | -5.9923 | -.5311 | -1.5265 | -5.9923 | -.5311 | -1.3454 | -5.9923 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 47

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 782 | .167 | 1975 | .02 | -.00 | 101175 | .3635 | .0873 | -.1346 | -.0001 | .0001 | .0059 |
| 783 | .167 | 1975 | -1.87 | -.00 | 101172 | .2085 | .1019 | -.1558 | -.0008 | .0006 | .0109 |
| 784 | .167 | 1975 | .04 | -.00 | 101175 | .3660 | .0873 | -.1321 | -.0000 | .0005 | .0083 |
| 785 | .167 | 1968 | 1.94 | -.00 | 101182 | .5222 | .0719 | -.1117 | -.0019 | .0002 | .0084 |
| 786 | .168 | 1992 | 3.91 | -.00 | 101169 | .6661 | .0537 | -.0808 | -.0006 | .0008 | .0088 |
| 787 | .167 | 1975 | 5.84 | -.00 | 101175 | .8019 | .0303 | -.0444 | -.0009 | .0006 | .0098 |
| 788 | .167 | 1975 | 7.91 | -.00 | 101175 | .9317 | .0071 | -.0054 | -.0007 | .0008 | .0116 |
| 789 | .167 | 1972 | 9.96 | -.00 | 101179 | 1.0188 | -.0251 | .0452 | -.0019 | .0001 | .0103 |
| 790 | .170 | 2048 | 12.03 | -.00 | 101193 | 1.0641 | -.0544 | .0925 | -.0028 | -.0006 | .0096 |
| 791 | .167 | 1965 | 14.17 | -.00 | 101192 | 1.2077 | -.0931 | .1492 | -.0027 | -.0006 | .0095 |
| 792 | .167 | 1968 | 16.11 | -.00 | 101189 | 1.3312 | -.1196 | .2070 | -.0010 | -.0004 | .0108 |
| 793 | .165 | 1939 | 18.14 | -.00 | 101219 | 1.4414 | -.1217 | .2549 | .0016 | .0006 | .0046 |
| 794 | .165 | 1939 | 20.09 | -.00 | 101219 | 1.5396 | -.1025 | .3020 | -.0014 | -.0000 | .0068 |
| 795 | .165 | 1922 | 21.48 | -.00 | 101236 | 1.6123 | -.0869 | .3307 | -.0015 | .0010 | .0063 |
| 796 | .168 | 1988 | .03 | -.00 | 101169 | .3622 | .0898 | -.1330 | -.0001 | .0000 | .0070 |

TEST 995 RUN 47

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 782 | .0170 | 0.0000 | .9783 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0081 |
| 783 | -1.8671 | 0.0000 | .9799 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0082 |
| 784 | .0381 | 0.0000 | .9804 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0081 |
| 785 | 1.9449 | 0.0000 | .9807 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0190 | .0080 |
| 786 | 3.9076 | 0.0000 | .9806 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0188 | .0079 |
| 787 | 5.8447 | 0.0000 | .9813 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0076 |
| 788 | 7.9075 | 0.0000 | .9815 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0180 | .0075 |
| 789 | 9.9551 | 0.0000 | .9822 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0172 | .0073 |
| 790 | 12.0251 | 0.0000 | .9837 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0151 | .0068 |
| 791 | 14.1714 | 0.0000 | .9838 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0155 | .0069 |
| 792 | 16.1081 | 0.0000 | .9843 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0149 | .0068 |
| 793 | 18.1366 | 0.0000 | .9835 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0157 | .0067 |
| 794 | 20.0855 | 0.0000 | .9819 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0170 | .0063 |
| 795 | 21.4793 | 0.0000 | .9796 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0192 | .0066 |
| 796 | .0333 | 0.0000 | .9840 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0156 | .0080 |

TEST 995 RUN 47

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 782 | .0170 | .3635 | .0874 | -.1346 | .3635 | .0579 | -.1346 | .3635 | .0792 | -.1346 | 1.0000 |
| 783 | -1.8671 | .2117 | .0951 | -.1558 | .2117 | .0672 | -.1558 | .2117 | .0869 | -.1558 | 1.0000 |
| 784 | .0381 | .3659 | .0875 | -.1321 | .3659 | .0602 | -.1321 | .3659 | .0795 | -.1321 | 1.0000 |
| 785 | 1.9449 | .5194 | .0896 | -.1117 | .5194 | .0626 | -.1117 | .5194 | .0816 | -.1117 | 1.0000 |
| 786 | 3.9076 | .6609 | .0990 | -.0808 | .6609 | .0722 | -.0808 | .6609 | .0911 | -.0808 | 1.0000 |
| 787 | 5.8447 | .7946 | .1118 | -.0444 | .7946 | .0859 | -.0444 | .7946 | .1042 | -.0444 | 1.0000 |
| 788 | 7.9075 | .9219 | .1353 | -.0054 | .9219 | .1098 | -.0054 | .9219 | .1278 | -.0054 | 1.0000 |
| 789 | 9.9551 | 1.0078 | .1514 | .0452 | 1.0078 | .1269 | .0452 | 1.0078 | .1441 | .0452 | 1.0000 |
| 790 | 12.0251 | 1.0521 | .1685 | .0925 | 1.0521 | .1466 | .0925 | 1.0521 | .1617 | .0925 | 1.0000 |
| 791 | 14.1714 | 1.1938 | .2054 | .1492 | 1.1938 | .1831 | .1492 | 1.1938 | .1986 | .1492 | 1.0000 |
| 792 | 16.1081 | 1.3121 | .2544 | .2070 | 1.3121 | .2327 | .2070 | 1.3121 | .2476 | .2070 | 1.0000 |
| 793 | 18.1366 | 1.4077 | .3331 | .2549 | 1.4077 | .3107 | .2549 | 1.4077 | .3264 | .2549 | 1.0000 |
| 794 | 20.0855 | 1.4812 | .4324 | .3020 | 1.4812 | .4091 | .3020 | 1.4812 | .4261 | .3020 | 1.0000 |
| 795 | 21.4793 | 1.5321 | .5095 | .3307 | 1.5321 | .4838 | .3307 | 1.5321 | .5029 | .3307 | 1.0000 |
| 796 | .0333 | .3622 | .0900 | -.1330 | .3622 | .0665 | -.1330 | .3622 | .0820 | -.1330 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 48

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 798 | .167 | 1972 | .01 | -.00 | 101185 | .3666 | .0857 | -.1338 | -.0000 | -.0000 | .0082 |
| 799 | .167 | 1975 | .05 | -.00 | 101196 | 1.0497 | -1.6021 | -.5735 | -.0008 | .0044 | .0058 |
| 800 | .167 | 1978 | -1.82 | -.00 | 101189 | .8808 | -1.5855 | -.5916 | -.0010 | .0044 | .0114 |
| 801 | .167 | 1972 | .06 | -.00 | 101206 | 1.0548 | -1.6060 | -.5760 | -.0009 | .0040 | .0058 |
| 802 | .167 | 1972 | 1.93 | -.00 | 101199 | 1.2220 | -1.6228 | -.5587 | -.0024 | .0042 | .0058 |
| 803 | .168 | 1998 | 3.91 | -.00 | 101175 | 1.3721 | -1.6213 | -.5275 | -.0017 | .0031 | .0158 |
| 804 | .168 | 1992 | 5.95 | -.00 | 101186 | 1.5158 | -1.6535 | -.4938 | -.0011 | .0044 | .0104 |
| 805 | .168 | 1992 | 7.95 | -.00 | 101202 | 1.6508 | -1.6806 | -.4582 | -.0011 | .0043 | .0108 |
| 806 | .168 | 2005 | 9.88 | -.00 | 101179 | 1.7668 | -1.6967 | -.4139 | -.0021 | .0037 | .0094 |
| 807 | .167 | 1978 | 12.12 | -.00 | 101199 | 1.9062 | -1.7563 | -.3727 | -.0033 | .0035 | .0115 |
| 808 | .168 | 1988 | 14.17 | -.00 | 101189 | 2.0433 | -1.7817 | -.3214 | -.0007 | .0034 | .0078 |
| 809 | .167 | 1985 | 16.17 | -.00 | 101192 | 2.1680 | -1.8126 | -.2659 | -.0030 | .0039 | .0027 |
| 810 | .167 | 1985 | 18.18 | -.00 | 101192 | 2.2346 | -1.7887 | -.2137 | .0024 | .0060 | .0005 |
| 811 | .168 | 1995 | 20.09 | -.00 | 101182 | 2.3658 | -1.7667 | -.1842 | -.0010 | .0063 | -.0038 |
| 812 | .171 | 2068 | 21.58 | -.00 | 101170 | 2.3730 | -1.6901 | -.1508 | -.0028 | .0064 | -.0004 |
| 813 | .168 | 1998 | .06 | -.00 | 101179 | 1.0442 | -1.5853 | -.5703 | -.0016 | .0040 | .0059 |
| 814 | .167 | 1978 | .02 | -.00 | 101196 | .3618 | .0734 | -.1339 | -.0002 | .0002 | .0072 |
| 815 | .010 | 0 | -.00 | -.00 | 103225 | .3068 | -1.4725 | -4.0611 | 3.0808 | .4002 | .6316 |

TEST 995 RUN 48

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 798 | .0149 | 0.0000 | .9831 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0166 | .0081 |
| 799 | .0527 | 29.7265 | 2.7693 | 20.4000 | 1.7334 | 1.7728 | 0.0000 | -1.7370 | .0142 |
| 800 | -1.8151 | 29.7206 | 2.7699 | 20.4000 | 1.7325 | 1.7719 | 0.0000 | -1.7338 | .0142 |
| 801 | .0575 | 29.7188 | 2.7710 | 20.4000 | 1.7395 | 1.7791 | 0.0000 | -1.7417 | .0141 |
| 802 | 1.9344 | 29.6938 | 2.7723 | 20.4000 | 1.7402 | 1.7797 | 0.0000 | -1.7419 | .0140 |
| 803 | 3.9145 | 29.6792 | 2.7731 | 20.4000 | 1.7180 | 1.7570 | 0.0000 | -1.7162 | .0139 |
| 804 | 5.9476 | 29.6812 | 2.7717 | 20.4000 | 1.7242 | 1.7633 | 0.0000 | -1.7154 | .0135 |
| 805 | 7.9542 | 29.6549 | 2.7727 | 20.4000 | 1.7234 | 1.7626 | 0.0000 | -1.7094 | .0133 |
| 806 | 9.8850 | 29.6423 | 2.7702 | 20.4000 | 1.7111 | 1.7500 | 0.0000 | -1.6864 | .0131 |
| 807 | 12.1153 | 29.6462 | 2.7752 | 20.4000 | 1.7372 | 1.7767 | 0.0000 | -1.7012 | .0133 |
| 808 | 14.1676 | 29.6441 | 2.7768 | 20.4000 | 1.7295 | 1.7688 | 0.0000 | -1.6799 | .0140 |
| 809 | 16.1653 | 29.6277 | 2.7732 | 20.4000 | 1.7312 | 1.7706 | 0.0000 | -1.6636 | .0153 |
| 810 | 18.1840 | 29.6126 | 2.7722 | 20.4000 | 1.7319 | 1.7713 | 0.0000 | -1.6447 | .0188 |
| 811 | 20.0929 | 29.5935 | 2.7697 | 20.4000 | 1.7215 | 1.7606 | 0.0000 | -1.6152 | .0223 |
| 812 | 21.5770 | 29.6114 | 2.7717 | 20.4000 | 1.6631 | 1.7009 | 0.0000 | -1.5448 | .0251 |
| 813 | .0622 | 29.5755 | 2.7732 | 20.4000 | 1.7202 | 1.7593 | 0.0000 | -1.7204 | .0142 |
| 814 | .0170 | 0.0000 | .9725 | 20.4000 | 0.0000 | 0.0000 | 0.0000 | .0270 | .0081 |
| 815 | -.0045 | 0.0000 | .9990 | 14.3860 | 0.0000 | 0.0000 | 0.0000 | .0416 | 0.0000 |

TEST 995 RUN 48

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 798 | .0149 | .3665 | .0858 | -.1338 | .3665 | .0611 | -.1338 | .3665 | .0777 | -.1338 | 1.0000 |
| 799 | .0527 | 1.0511 | -1.6011 | -.5735 | 1.0495 | .1181 | -.3780 | 1.0512 | -1.6419 | -.5765 | 1.8000 |
| 800 | -1.8151 | .8301 | -1.6126 | -.5916 | .8850 | .1049 | -.3961 | .8292 | -1.6543 | -.5947 | 1.8000 |
| 801 | .0575 | 1.0564 | -1.6049 | -.5760 | 1.0547 | .1205 | -.3797 | 1.0564 | -1.6395 | -.5783 | 1.8000 |
| 802 | 1.9344 | 1.2761 | -1.5807 | -.5587 | 1.2174 | .1445 | -.3623 | 1.2768 | -1.6145 | -.5609 | 1.8000 |
| 803 | 3.9145 | 1.4796 | -1.5238 | -.5275 | 1.3623 | .1762 | -.3337 | 1.4825 | -1.5797 | -.5322 | 1.8000 |
| 804 | 5.9476 | 1.6790 | -1.4875 | -.4938 | 1.5004 | .2138 | -.2993 | 1.6827 | -1.5367 | -.4979 | 1.8000 |
| 805 | 7.9542 | 1.8675 | -1.4360 | -.4582 | 1.6290 | .2575 | -.2638 | 1.8726 | -1.4856 | -.4623 | 1.8000 |
| 806 | 9.8850 | 2.0319 | -1.3682 | -.4139 | 1.7381 | .3044 | -.2209 | 2.0402 | -1.4294 | -.4194 | 1.8000 |
| 807 | 12.1153 | 2.2323 | -1.3171 | -.3727 | 1.8677 | .3681 | -.1767 | 2.2371 | -1.3527 | -.3753 | 1.8000 |
| 808 | 14.1676 | 2.4173 | -1.2274 | -.3214 | 1.9940 | .4355 | -.1263 | 2.4247 | -1.2710 | -.3248 | 1.8000 |
| 809 | 16.1653 | 2.5870 | -1.1374 | -.2659 | 2.1050 | .5102 | -.0706 | 2.5950 | -1.1803 | -.2692 | 1.8000 |
| 810 | 18.1840 | 2.6812 | -1.0020 | -.2137 | 2.1407 | .6246 | -.0183 | 2.6900 | -1.0475 | -.2168 | 1.8000 |
| 811 | 20.0929 | 2.8287 | -.8464 | -.1842 | 2.2373 | .7481 | .0101 | 2.8419 | -.9048 | -.1865 | 1.8000 |
| 812 | 21.5770 | 2.8283 | -.6990 | -.1508 | 2.2167 | .8225 | .0369 | 2.8639 | -.8142 | -.1617 | 1.8000 |
| 813 | .0622 | 1.0459 | -1.5842 | -.5703 | 1.0440 | .1219 | -.3763 | 1.0459 | -1.6381 | -.5748 | 1.8000 |
| 814 | .0170 | .3618 | .0735 | -.1339 | .3618 | .0384 | -.1339 | .3618 | .0654 | -.1339 | 1.0000 |
| 815 | -.0045 | .3067 | -1.4726 | -4.0611 | .3067 | -1.5142 | -4.0611 | .3067 | -1.4726 | -4.0611 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 50

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 833 | .166 | 1939 | .02 | .00 | 101009 | .3720 | .0975 | -.1303 | -.0008 | -.0002 | -.0030 |
| 834 | .167 | 1965 | -1.83 | -.00 | 100982 | .2320 | .1141 | -.1554 | -.0005 | -.0005 | .0075 |
| 835 | .165 | 1929 | -.01 | -.00 | 101019 | .3776 | .1005 | -.1271 | -.0009 | -.0001 | .0018 |
| 836 | .166 | 1945 | 2.01 | -.00 | 101002 | .5185 | .0836 | -.1053 | -.0023 | -.0004 | -.0008 |
| 837 | .166 | 1952 | 3.94 | -.00 | 100992 | .6480 | .0670 | -.0748 | -.0019 | -.0003 | .0009 |
| 838 | .166 | 1949 | 5.90 | -.00 | 100995 | .8147 | .0472 | -.0440 | -.0009 | -.0012 | .0135 |
| 839 | .166 | 1959 | 7.92 | -.00 | 100982 | .9478 | .0217 | -.0072 | -.0005 | -.0003 | .0002 |
| 840 | .166 | 1942 | 9.98 | .00 | 100999 | 1.0755 | -.0041 | .0341 | -.0017 | -.0009 | -.0064 |
| 841 | .164 | 1912 | 12.09 | -.00 | 101029 | 1.1889 | -.0332 | .0800 | -.0021 | -.0010 | .0035 |
| 842 | .165 | 1932 | 14.19 | -.00 | 101009 | 1.2978 | -.0649 | .1341 | -.0023 | -.0012 | .0017 |
| 843 | .166 | 1959 | 16.21 | -.00 | 100982 | 1.3967 | -.0911 | .1913 | -.0031 | -.0018 | .0013 |
| 844 | .166 | 1939 | 18.16 | -.00 | 101002 | 1.4905 | -.0937 | .2401 | .0002 | -.0011 | .0008 |
| 845 | .165 | 1935 | 20.19 | -.00 | 101002 | 1.5858 | -.0812 | .2943 | -.0016 | -.0011 | .0020 |
| 846 | .167 | 1965 | 21.71 | -.00 | 100975 | 1.6327 | -.0664 | .3313 | -.0021 | -.0004 | .0038 |
| 847 | .166 | 1939 | .04 | .00 | 101002 | .3601 | .1079 | -.1321 | -.0002 | -.0006 | -.0057 |

TEST 995 RUN 50

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 833 | .0196 | 0.0000 | .9714 | 22.4143 | 0.0000 | 0.0000 | 0.0000 | .0262 | .0087 |
| 834 | -1.8339 | 0.0000 | .9720 | 22.4140 | 0.0000 | 0.0000 | 0.0000 | .0253 | .0087 |
| 835 | -.0101 | 0.0000 | .9723 | 22.4139 | 0.0000 | 0.0000 | 0.0000 | .0255 | .0085 |
| 836 | 2.0062 | 0.0000 | .9725 | 22.4137 | 0.0000 | 0.0000 | 0.0000 | .0250 | .0084 |
| 837 | 3.9419 | 0.0000 | .9718 | 22.4141 | 0.0000 | 0.0000 | 0.0000 | .0255 | .0082 |
| 838 | 5.9015 | 0.0000 | .9714 | 22.4143 | 0.0000 | 0.0000 | 0.0000 | .0259 | .0083 |
| 839 | 7.9189 | 0.0000 | .9695 | 22.4152 | 0.0000 | 0.0000 | 0.0000 | .0273 | .0083 |
| 840 | 9.9840 | 0.0000 | .9687 | 22.4156 | 0.0000 | 0.0000 | 0.0000 | .0281 | .0084 |
| 841 | 12.0885 | 0.0000 | .9688 | 22.4156 | 0.0000 | 0.0000 | 0.0000 | .0283 | .0087 |
| 842 | 14.1939 | 0.0000 | .9687 | 22.4157 | 0.0000 | 0.0000 | 0.0000 | .0278 | .0086 |
| 843 | 16.2869 | 0.0000 | .9678 | 22.4161 | 0.0000 | 0.0000 | 0.0000 | .0280 | .0081 |
| 844 | 18.1589 | 0.0000 | .9680 | 22.4160 | 0.0000 | 0.0000 | 0.0000 | .0278 | .0078 |
| 845 | 20.1944 | 0.0000 | .9662 | 22.4169 | 0.0000 | 0.0000 | 0.0000 | .0291 | .0071 |
| 846 | 21.7056 | 0.0000 | .9648 | 22.4176 | 0.0000 | 0.0000 | 0.0000 | .0295 | .0077 |
| 847 | .0440 | 0.0000 | .9723 | 22.4139 | 0.0000 | 0.0000 | 0.0000 | .0253 | .0087 |

TEST 995 RUN 50

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 833 | .0196 | .3719 | .0976 | -.1303 | .3719 | .0627 | -.1303 | .3719 | .0869 | -.1303 | 1.0000 |
| 834 | -1.8339 | .2355 | .1067 | -.1554 | .2355 | .0727 | -.1554 | .2355 | .0980 | -.1554 | 1.0000 |
| 835 | -.0101 | .3776 | .1005 | -.1271 | .3776 | .0666 | -.1271 | .3776 | .0920 | -.1271 | 1.0000 |
| 836 | 2.0062 | .5153 | .1017 | -.1053 | .5153 | .0683 | -.1053 | .5153 | .0933 | -.1053 | 1.0000 |
| 837 | 3.9419 | .6419 | .1114 | -.0748 | .6419 | .0778 | -.0748 | .6419 | .1033 | -.0748 | 1.0000 |
| 838 | 5.9015 | .8055 | .1307 | -.0440 | .8055 | .0965 | -.0440 | .8055 | .1224 | -.0440 | 1.0000 |
| 839 | 7.9189 | .9357 | .1520 | -.0072 | .9357 | .1165 | -.0072 | .9357 | .1438 | -.0072 | 1.0000 |
| 840 | 9.9840 | 1.0600 | .1824 | .0341 | 1.0600 | .1459 | .0341 | 1.0600 | .1740 | .0341 | 1.0000 |
| 841 | 12.0885 | 1.1695 | .2165 | .0800 | 1.1695 | .1795 | .0800 | 1.1695 | .2078 | .0800 | 1.0000 |
| 842 | 14.1939 | 1.2741 | .2553 | .1341 | 1.2741 | .2189 | .1341 | 1.2741 | .2467 | .1341 | 1.0000 |
| 843 | 16.2069 | 1.3666 | .3023 | .1913 | 1.3666 | .2663 | .1913 | 1.3666 | .2942 | .1913 | 1.0000 |
| 844 | 18.1589 | 1.4455 | .3754 | .2401 | 1.4455 | .3399 | .2401 | 1.4455 | .3677 | .2401 | 1.0000 |
| 845 | 20.1944 | 1.5163 | .4712 | .2943 | 1.5163 | .4351 | .2943 | 1.5163 | .4642 | .2943 | 1.0000 |
| 846 | 21.7056 | 1.5415 | .5421 | .3313 | 1.5415 | .5050 | .3313 | 1.5415 | .5345 | .3313 | 1.0000 |
| 847 | .0440 | .3600 | .1082 | -.1321 | .3600 | .0741 | -.1321 | .3600 | .0995 | -.1321 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 51

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 848 | .166 | 1942 | .04 | -.00 | 100992 | .3773 | .1053 | -.1274 | .0002 | .0001 | -.0009 |
| 849 | .166 | 1955 | .09 | -.00 | 100968 | 1.1270 | -1.2371 | -.4898 | .0033 | .0029 | .0030 |
| 850 | .166 | 1939 | -1.78 | -.00 | 100985 | .9546 | -1.2464 | -.5167 | .0036 | .0030 | .0069 |
| 851 | .165 | 1932 | .10 | -.00 | 100988 | 1.1370 | -1.2549 | -.4952 | .0037 | .0032 | .0019 |
| 852 | .165 | 1932 | 2.01 | -.00 | 100988 | 1.3161 | -1.2696 | -.4782 | .0036 | .0031 | .0045 |
| 853 | .165 | 1922 | 3.95 | -.00 | 101002 | 1.4724 | -1.2945 | -.4549 | .0031 | .0022 | .0085 |
| 854 | .165 | 1935 | 5.97 | -.00 | 100985 | 1.6313 | -1.3059 | -.4189 | .0054 | .0034 | .0017 |
| 855 | .164 | 1912 | 7.99 | -.00 | 101019 | 1.7873 | -1.3407 | -.3926 | .0060 | .0033 | .0065 |
| 856 | .163 | 1879 | 10.05 | -.00 | 101045 | 1.9745 | -1.3876 | -.3715 | .0054 | .0028 | -.0017 |
| 857 | .165 | 1929 | 12.14 | -.00 | 100992 | 2.1256 | -1.3812 | -.3317 | .0040 | .0024 | .0035 |
| 858 | .165 | 1935 | 14.24 | -.00 | 100985 | 2.3029 | -1.4095 | -.2934 | .0047 | .0020 | .0021 |
| 859 | .166 | 1945 | 16.25 | -.00 | 100975 | 2.4772 | -1.4312 | -.2580 | .0061 | .0028 | .0009 |
| 860 | .165 | 1926 | 18.25 | -.00 | 100999 | 2.7018 | -1.4749 | -.2376 | .0086 | .0035 | -.0031 |
| 861 | .165 | 1935 | 20.28 | -.00 | 100988 | 2.9084 | -1.5045 | -.2102 | .0089 | .0050 | -.0036 |
| 862 | .166 | 1949 | 21.69 | -.00 | 100975 | 3.0651 | -1.5214 | -.1874 | .0104 | .0054 | .0076 |
| 863 | .165 | 1919 | .09 | -.00 | 101002 | 1.1355 | -1.2654 | -.4959 | .0028 | .0022 | .0008 |
| 864 | .165 | 1926 | .04 | .00 | 100995 | .3674 | .0874 | -.1309 | .0001 | -.0000 | -.0032 |

TEST 995 RUN 51

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 848 | .0409 | 0.0000 | .9731 | 22.4134 | 0.0000 | 0.0000 | 0.0000 | .0245 | .0089 |
| 849 | .0854 | 29.9299 | 2.8612 | 21.4694 | 1.7879 | 1.3158 | .5127 | -1.6864 | .0203 |
| 850 | -1.7835 | 29.9154 | 2.8544 | 21.4728 | 1.8016 | 1.3260 | .5166 | -1.6940 | .0200 |
| 851 | .1037 | 29.9032 | 2.8605 | 21.4697 | 1.8104 | 1.3326 | .5189 | -1.7063 | .0205 |
| 852 | 2.0135 | 29.8882 | 2.8579 | 21.4711 | 1.8091 | 1.3315 | .5187 | -1.7028 | .0207 |
| 853 | 3.9474 | 29.8906 | 2.8529 | 21.4735 | 1.8162 | 1.3381 | .5214 | -1.7043 | .0212 |
| 854 | 5.9735 | 29.8908 | 2.8591 | 21.4705 | 1.8086 | 1.3312 | .5186 | -1.6927 | .0214 |
| 855 | 7.9922 | 29.8999 | 2.8532 | 21.4734 | 1.8304 | 1.3472 | .5248 | -1.7010 | .0224 |
| 856 | 10.0529 | 29.8275 | 2.8533 | 21.4734 | 1.8591 | 1.3682 | .5331 | -1.7216 | .0234 |
| 857 | 12.1433 | 29.8304 | 2.8570 | 21.4715 | 1.8129 | 1.3342 | .5199 | -1.6679 | .0235 |
| 858 | 14.2431 | 29.8304 | 2.8540 | 21.4730 | 1.8075 | 1.3305 | .5181 | -1.6451 | .0236 |
| 859 | 16.2519 | 29.7818 | 2.8562 | 21.4719 | 1.7963 | 1.3221 | .5150 | -1.6230 | .0238 |
| 860 | 18.2539 | 29.7855 | 2.8533 | 21.4733 | 1.8159 | 1.3365 | .5207 | -1.6199 | .0242 |
| 861 | 20.2794 | 29.8135 | 2.8541 | 21.4730 | 1.8092 | 1.3316 | .5188 | -1.5923 | .0246 |
| 862 | 21.6916 | 29.7940 | 2.8530 | 21.4735 | 1.7959 | 1.3218 | .5149 | -1.5654 | .0245 |
| 863 | .0917 | 29.7307 | 2.8524 | 21.4738 | 1.8236 | 1.3427 | .5223 | -1.7107 | .0206 |
| 864 | .0354 | 0.0000 | .9650 | 22.4175 | 0.0000 | 0.0000 | 0.0000 | .0322 | .0090 |

TEST 995 RUN 51

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 848 | .0409 | .3772 | .1056 | -.1274 | .3772 | .0721 | -.1274 | .3772 | .0967 | -.1274 | 1.0000 |
| 849 | .0854 | 1.1289 | -1.2354 | -.4898 | 1.1262 | .5322 | -.2881 | 1.1288 | -1.2278 | -.4856 | 1.8000 |
| 850 | -1.7835 | .9154 | -1.2755 | -.5167 | .9715 | .5052 | -.3134 | .9167 | -1.2540 | -.5120 | 1.8000 |
| 851 | .1037 | 1.1392 | -1.2528 | -.4952 | 1.1360 | .5371 | -.2909 | 1.1392 | -1.2229 | -.4895 | 1.8000 |
| 852 | 2.0135 | 1.3599 | -1.2226 | -.4782 | 1.2963 | .5647 | -.2741 | 1.3582 | -1.1942 | -.4726 | 1.8000 |
| 853 | 3.9474 | 1.5580 | -1.1901 | -.4549 | 1.4328 | .6026 | -.2497 | 1.5540 | -1.1532 | -.4483 | 1.8000 |
| 854 | 5.9735 | 1.7584 | -1.1290 | -.4189 | 1.5701 | .6484 | -.2148 | 1.7533 | -1.1021 | -.4134 | 1.8000 |
| 855 | 7.9922 | 1.9564 | -1.0791 | -.3926 | 1.7019 | .7111 | -.1861 | 1.9466 | -1.0318 | -.3847 | 1.8000 |
| 856 | 10.0529 | 2.1865 | -1.0217 | -.3715 | 1.8619 | .7855 | -.1618 | 2.1692 | -.9475 | -.3603 | 1.8000 |
| 857 | 12.1433 | 2.3686 | -.9032 | -.3317 | 1.9873 | .8456 | -.1272 | 2.3575 | -.8750 | -.3257 | 1.8000 |
| 858 | 14.2431 | 2.5788 | -.7995 | -.2934 | 2.1341 | .9288 | -.0895 | 2.5672 | -.7771 | -.2880 | 1.8000 |
| 859 | 16.2519 | 2.7788 | -.6807 | -.2580 | 2.2761 | 1.0201 | -.0553 | 2.7686 | -.6696 | -.2539 | 1.8000 |
| 860 | 18.2539 | 3.0278 | -.5544 | -.2376 | 2.4590 | 1.1459 | -.0328 | 3.0103 | -.5255 | -.2313 | 1.8000 |
| 861 | 20.2794 | 3.2496 | -.4032 | -.2102 | 2.6226 | 1.2693 | -.0061 | 3.2326 | -.3817 | -.2046 | 1.8000 |
| 862 | 21.6916 | 3.4104 | -.2808 | -.1874 | 2.7466 | 1.3635 | .0152 | 3.3971 | -.2719 | -.1834 | 1.8000 |
| 863 | .0917 | 1.1376 | -1.2636 | -.4959 | 1.1346 | .5394 | -.2902 | 1.1375 | -1.2206 | -.4887 | 1.8000 |
| 864 | .0354 | .3674 | .0877 | -.1309 | .3674 | .0464 | -.1309 | .3674 | .0787 | -.1309 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 52

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 867 | .165 | 1926 | .03 | -.00 | 100927 | .4437 | .0795 | -.1408 | -.0024 | -.0006 | .0125 |
| 868 | .166 | 1935 | -1.83 | -.00 | 100921 | .2905 | .0903 | -.1679 | -.0025 | .0001 | .0027 |
| 869 | .166 | 1949 | .04 | -.00 | 100904 | .4451 | .0764 | -.1411 | -.0027 | .0001 | .0023 |
| 870 | .165 | 1922 | 1.91 | -.00 | 100934 | .5746 | .0701 | -.1076 | -.0027 | -.0003 | .0029 |
| 871 | .165 | 1919 | 3.88 | -.00 | 100938 | .7048 | .0557 | -.0721 | -.0019 | -.0001 | .0034 |
| 872 | .166 | 1935 | 5.88 | -.00 | 100917 | .8333 | .0384 | -.0314 | -.0031 | -.0004 | .0033 |
| 873 | .166 | 1935 | 7.91 | -.00 | 100917 | .9600 | .0180 | .0056 | -.0014 | .0013 | .0279 |
| 874 | .166 | 1939 | 9.95 | -.00 | 100911 | 1.0891 | -.0063 | .0482 | -.0001 | -.0013 | .0049 |
| 875 | .164 | 1909 | 12.08 | -.00 | 100941 | 1.2147 | -.0241 | .0955 | -.0020 | -.0021 | .0069 |
| 876 | .163 | 1889 | 14.16 | -.00 | 100968 | 1.3205 | -.0266 | .1436 | -.0030 | -.0020 | .0100 |
| 877 | .165 | 1919 | 16.14 | -.00 | 100961 | 1.3866 | -.0197 | .1904 | -.0026 | -.0010 | .0092 |
| 878 | .166 | 1939 | 18.16 | -.00 | 100914 | 1.4500 | -.0091 | .2488 | -.0026 | -.0006 | .0018 |
| 879 | .164 | 1896 | 20.12 | -.00 | 100961 | 1.5672 | .0070 | .2720 | -.0013 | .0001 | .0049 |
| 880 | .162 | 1859 | 21.47 | -.00 | 100998 | 1.6722 | .0095 | .2952 | -.0021 | .0002 | -.0006 |
| 881 | .165 | 1919 | .04 | -.00 | 100938 | .4404 | .0845 | -.1423 | -.0021 | -.0002 | .0056 |

TEST 995 RUN 52

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 867 | .0285 | 0.0000 | .9741 | 22.4129 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0086 |
| 868 | -1.8324 | 0.0000 | .9741 | 22.4129 | 0.0000 | 0.0000 | 0.0000 | .0237 | .0088 |
| 869 | .0404 | 0.0000 | .9744 | 22.4128 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0087 |
| 870 | 1.9116 | 0.0000 | .9757 | 22.4121 | 0.0000 | 0.0000 | 0.0000 | .0224 | .0084 |
| 871 | 3.8797 | 0.0000 | .9741 | 22.4129 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0084 |
| 872 | 5.8835 | 0.0000 | .9737 | 22.4132 | 0.0000 | 0.0000 | 0.0000 | .0240 | .0084 |
| 873 | 7.9104 | 0.0000 | .9734 | 22.4133 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0082 |
| 874 | 9.9528 | 0.0000 | .9719 | 22.4140 | 0.0000 | 0.0000 | 0.0000 | .0253 | .0084 |
| 875 | 12.0825 | 0.0000 | .9728 | 22.4136 | 0.0000 | 0.0000 | 0.0000 | .0246 | .0087 |
| 876 | 14.1555 | 0.0000 | .9732 | 22.4134 | 0.0000 | 0.0000 | 0.0000 | .0244 | .0086 |
| 877 | 16.1357 | 0.0000 | .9718 | 22.4141 | 0.0000 | 0.0000 | 0.0000 | .0250 | .0079 |
| 878 | 18.1594 | 0.0000 | .9704 | 22.4148 | 0.0000 | 0.0000 | 0.0000 | .0257 | .0083 |
| 879 | 20.1241 | 0.0000 | .9700 | 22.4150 | 0.0000 | 0.0000 | 0.0000 | .0263 | .0093 |
| 880 | 21.4684 | 0.0000 | .9697 | 22.4152 | 0.0000 | 0.0000 | 0.0000 | .0269 | .0098 |
| 881 | .0373 | 0.0000 | .9777 | 22.4112 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0088 |

TEST 995 RUN 52

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 867 | .0285 | .4436 | .0797 | -.1408 | .4436 | .0473 | -.1408 | .4436 | .0711 | -.1408 | 1.0000 |
| 868 | -1.8324 | .2932 | .0809 | -.1679 | .2932 | .0484 | -.1679 | .2932 | .0721 | -.1679 | 1.0000 |
| 869 | .0404 | .4451 | .0767 | -.1411 | .4451 | .0447 | -.1411 | .4451 | .0679 | -.1411 | 1.0000 |
| 870 | 1.9116 | .5719 | .0892 | -.1076 | .5719 | .0584 | -.1076 | .5719 | .0808 | -.1076 | 1.0000 |
| 871 | 3.8797 | .6994 | .1033 | -.0721 | .6994 | .0710 | -.0721 | .6994 | .0948 | -.0721 | 1.0000 |
| 872 | 5.8835 | .8249 | .1236 | -.0314 | .8249 | .0912 | -.0314 | .8249 | .1152 | -.0314 | 1.0000 |
| 873 | 7.9104 | .9484 | .1499 | .0056 | .9484 | .1176 | .0056 | .9484 | .1417 | .0056 | 1.0000 |
| 874 | 9.9528 | 1.0739 | .1820 | .0482 | 1.0739 | .1484 | .0482 | 1.0739 | .1736 | .0482 | 1.0000 |
| 875 | 12.0825 | 1.1928 | .2307 | .0955 | 1.1928 | .1973 | .0955 | 1.1928 | .2219 | .0955 | 1.0000 |
| 876 | 14.1555 | 1.2869 | .2972 | .1436 | 1.2869 | .2642 | .1436 | 1.2869 | .2886 | .1436 | 1.0000 |
| 877 | 16.1357 | 1.3375 | .3664 | .1904 | 1.3375 | .3335 | .1904 | 1.3375 | .3585 | .1904 | 1.0000 |
| 878 | 18.1594 | 1.3806 | .4432 | .2488 | 1.3806 | .4093 | .2488 | 1.3806 | .4349 | .2488 | 1.0000 |
| 879 | 20.1241 | 1.4691 | .5458 | .2720 | 1.4691 | .5102 | .2720 | 1.4691 | .5365 | .2720 | 1.0000 |
| 880 | 21.4684 | 1.5527 | .6209 | .2952 | 1.5527 | .5841 | .2952 | 1.5527 | .6110 | .2952 | 1.0000 |
| 881 | .0373 | .4403 | .0848 | -.1423 | .4403 | .0554 | -.1423 | .4403 | .0760 | -.1423 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 53

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 883 | .165 | 1919 | .03 | .00 | 100924 | .4448 | .0675 | -.1449 | -.0021 | .0008 | -.0105 |
| 884 | .167 | 1962 | .07 | -.00 | 100880 | 1.2127 | -1.3218 | -.5149 | .0007 | -.0027 | .0150 |
| 885 | .167 | 1968 | -1.79 | -.00 | 100877 | 1.0385 | -1.3131 | -.5406 | .0009 | -.0026 | .0176 |
| 886 | .167 | 1959 | .09 | -.00 | 100880 | 1.2193 | -1.3296 | -.5175 | .0003 | -.0022 | .0188 |
| 887 | .167 | 1975 | 2.02 | -.00 | 100867 | 1.3620 | -1.3271 | -.4839 | .0016 | -.0020 | .0176 |
| 888 | .166 | 1952 | 3.97 | -.00 | 100890 | 1.5053 | -1.3519 | -.4543 | .0023 | -.0019 | .0194 |
| 889 | .165 | 1912 | 5.95 | -.00 | 100931 | 1.6684 | -1.3967 | -.4266 | .0035 | -.0020 | .0166 |
| 890 | .166 | 1955 | 8.01 | -.00 | 100887 | 1.8146 | -1.3837 | -.3887 | .0055 | -.0019 | .0134 |
| 891 | .165 | 1919 | 10.04 | -.00 | 100924 | 2.0112 | -1.4311 | -.3673 | .0067 | -.0036 | .0186 |
| 892 | .166 | 1935 | 12.16 | -.00 | 100907 | 2.2367 | -1.4403 | -.3466 | .0045 | -.0033 | .0214 |
| 893 | .167 | 1968 | 14.24 | -.00 | 100874 | 2.4418 | -1.4414 | -.3170 | .0067 | -.0026 | .0146 |
| 894 | .166 | 1949 | 16.26 | -.00 | 100890 | 2.6698 | -1.4843 | -.2977 | .0080 | -.0014 | .0182 |
| 895 | .166 | 1945 | 18.26 | -.00 | 100894 | 2.8863 | -1.5189 | -.2736 | .0066 | -.0001 | .0136 |
| 896 | .166 | 1952 | 20.26 | -.00 | 100894 | 3.0846 | -1.5493 | -.2388 | .0046 | .0009 | .0127 |
| 897 | .167 | 1968 | 21.60 | -.00 | 100874 | 3.2141 | -1.5569 | -.2071 | .0041 | .0011 | .0098 |
| 898 | .167 | 1978 | .09 | -.00 | 100857 | 1.2105 | -1.3175 | -.5139 | .0002 | -.0023 | .0129 |
| 899 | .166 | 1949 | .04 | -.00 | 100894 | .4462 | .0609 | -.1454 | -.0018 | -.0016 | .0267 |

TEST 995 RUN 53

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CHU,N | CHU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 883 | .0307 | 0.0000 | .9839 | 22.4081 | 0.0000 | 0.0000 | 0.0000 | .0149 | .0085 |
| 884 | .0652 | 30.6356 | 2.9500 | 21.4250 | 1.8494 | 1.3616 | .5298 | -1.7593 | .0191 |
| 885 | -1.7937 | 30.6024 | 2.9559 | 21.4226 | 1.8451 | 1.3586 | .5285 | -1.7579 | .0188 |
| 886 | .0863 | 30.5702 | 2.9533 | 21.4233 | 1.8521 | 1.3634 | .5308 | -1.7653 | .0190 |
| 887 | 2.0224 | 30.5327 | 2.9581 | 21.4210 | 1.8382 | 1.3535 | .5264 | -1.7535 | .0193 |
| 888 | 3.9700 | 30.5107 | 2.9511 | 21.4245 | 1.8582 | 1.3683 | .5322 | -1.7652 | .0198 |
| 889 | 5.9471 | 30.4942 | 2.9501 | 21.4249 | 1.8964 | 1.3964 | .5431 | -1.7963 | .0205 |
| 890 | 8.0097 | 30.4866 | 2.9490 | 21.4255 | 1.8549 | 1.3658 | .5313 | -1.7473 | .0212 |
| 891 | 10.0422 | 30.4698 | 2.9500 | 21.4250 | 1.8907 | 1.3923 | .5414 | -1.7719 | .0220 |
| 892 | 12.1581 | 30.4647 | 2.9542 | 21.4229 | 1.8755 | 1.3808 | .5373 | -1.7476 | .0216 |
| 893 | 14.2358 | 30.4300 | 2.9533 | 21.4234 | 1.8427 | 1.3567 | .5279 | -1.7024 | .0210 |
| 894 | 16.2600 | 30.3939 | 2.9498 | 21.4251 | 1.8597 | 1.3694 | .5326 | -1.7005 | .0210 |
| 895 | 18.2597 | 30.4178 | 2.9510 | 21.4245 | 1.8652 | 1.3734 | .5342 | -1.6860 | .0210 |
| 896 | 20.2580 | 30.4016 | 2.9511 | 21.4244 | 1.8582 | 1.3681 | .5323 | -1.6601 | .0210 |
| 897 | 21.6048 | 30.5165 | 2.9474 | 21.4263 | 1.8495 | 1.3617 | .5298 | -1.6280 | .0210 |
| 898 | .0864 | 30.3543 | 2.9490 | 21.4255 | 1.8326 | 1.3494 | .5249 | -1.7434 | .0191 |
| 899 | .0357 | 0.0000 | .9724 | 22.4138 | 0.0000 | 0.0000 | 0.0000 | .0251 | .0083 |

TEST 995 RUN 53

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 883 | .0307 | .4448 | .0677 | -.1449 | .4448 | .0444 | -.1449 | .4448 | .0592 | -.1449 | 1.0000 |
| 884 | .0652 | 1.2142 | -1.3204 | -.5149 | 1.2121 | .5098 | -.3063 | 1.2141 | -1.2502 | -.5048 | 1.8000 |
| 885 | -1.7937 | .9969 | -1.3449 | -.5406 | 1.0546 | .4805 | -.3324 | .9995 | -1.2786 | -.5310 | 1.8000 |
| 886 | .0863 | 1.2213 | -1.3277 | -.5175 | 1.2185 | .5054 | -.3085 | 1.2212 | -1.2546 | -.5071 | 1.8000 |
| 887 | 2.0224 | 1.4080 | -1.2783 | -.4839 | 1.3431 | .5394 | -.2765 | 1.4052 | -1.2195 | -.4751 | 1.8000 |
| 888 | 3.9700 | 1.5953 | -1.2444 | -.4543 | 1.4666 | .5895 | -.2447 | 1.5885 | -1.1662 | -.4433 | 1.8000 |
| 889 | 5.9471 | 1.8042 | -1.2163 | -.4266 | 1.6077 | .6494 | -.2126 | 1.7900 | -1.1011 | -.4112 | 1.8000 |
| 890 | 8.0097 | 1.9897 | -1.1174 | -.3887 | 1.7312 | .6983 | -.1794 | 1.9765 | -1.0446 | -.3780 | 1.8000 |
| 891 | 10.0422 | 2.2300 | -1.0585 | -.3673 | 1.9003 | .7812 | -.1540 | 2.2072 | -.9518 | -.3525 | 1.8000 |
| 892 | 12.1581 | 2.4898 | -.9369 | -.3466 | 2.0948 | .8749 | -.1350 | 2.4655 | -.8456 | -.3335 | 1.8000 |
| 893 | 14.2358 | 2.7212 | -.7967 | -.3170 | 2.2681 | .9685 | -.1091 | 2.7009 | -.7375 | -.3077 | 1.8000 |
| 894 | 16.2600 | 2.9786 | -.6774 | -.2977 | 2.4579 | 1.0869 | -.0879 | 2.9506 | -.6027 | -.2865 | 1.8000 |
| 895 | 18.2597 | 3.2169 | -.5380 | -.2736 | 2.6325 | 1.2123 | -.0632 | 3.1839 | -.4591 | -.2617 | 1.8000 |
| 896 | 20.2580 | 3.4302 | -.3854 | -.2388 | 2.7868 | 1.3368 | -.0292 | 3.3962 | -.3143 | -.2277 | 1.8000 |
| 897 | 21.6048 | 3.5616 | -.2641 | -.2071 | 2.8806 | 1.4345 | .0016 | 3.5287 | -.2019 | -.1970 | 1.8000 |
| 898 | .0864 | 1.2125 | -1.3157 | -.5139 | 1.2097 | .4979 | -.3072 | 1.2124 | -1.2621 | -.5057 | 1.8000 |
| 899 | .0357 | .4461 | .0612 | -.1454 | .4461 | .0277 | -.1454 | .4461 | .0528 | -.1454 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 55

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 918 | .166 | 1929 | .02 | -.00 | 100237 | .4792 | .0616 | -.1322 | -.0023 | -.0001 | .0036 |
| 919 | .166 | 1935 | -1.83 | -.00 | 100230 | .3542 | .0661 | -.1660 | -.0026 | -.0002 | .0038 |
| 920 | .167 | 1952 | .02 | -.00 | 100213 | .4805 | .0645 | -.1311 | -.0024 | .0002 | .0070 |
| 921 | .165 | 1919 | 1.96 | -.00 | 100247 | .6067 | .0572 | -.0985 | -.0033 | .0003 | .0058 |
| 922 | .165 | 1912 | 3.93 | -.00 | 100253 | .7469 | .0430 | -.0514 | -.0018 | -.0002 | .0048 |
| 923 | .166 | 1929 | 5.91 | -.00 | 100237 | .8762 | .0410 | -.0217 | -.0022 | -.0001 | .0055 |
| 924 | .166 | 1925 | 7.94 | -.00 | 100240 | 1.0110 | .0313 | .0138 | -.0020 | .0002 | .0051 |
| 925 | .165 | 1912 | 10.05 | -.00 | 100253 | 1.1027 | .0298 | .0626 | -.0018 | .0003 | .0059 |
| 926 | .167 | 1952 | 12.09 | -.00 | 100210 | 1.1849 | .0318 | .1140 | -.0022 | -.0001 | .0033 |
| 927 | .166 | 1935 | 14.21 | -.00 | 100230 | 1.2558 | .0335 | .1723 | -.0004 | .0003 | .0060 |
| 928 | .166 | 1922 | 16.14 | -.00 | 100243 | 1.3422 | .0469 | .1884 | -.0037 | -.0001 | .0106 |
| 929 | .164 | 1892 | 18.14 | -.00 | 100273 | 1.4679 | .0488 | .2252 | -.0024 | -.0000 | .0093 |
| 930 | .163 | 1869 | 20.22 | -.00 | 100297 | 1.6234 | .0436 | .2651 | -.0008 | .0001 | .0080 |
| 931 | .164 | 1899 | 21.57 | -.00 | 100267 | 1.7146 | .0424 | .2994 | -.0004 | .0007 | .0083 |
| 932 | .167 | 1958 | .05 | -.00 | 100207 | .4764 | .0679 | -.1328 | -.0022 | -.0001 | .0045 |

TEST 995 RUN 55

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 918 | .0245 | 0.0000 | .9693 | 22.4154 | 0.0000 | 0.0000 | 0.0000 | .0280 | .0086 |
| 919 | -1.8324 | 0.0000 | .9699 | 22.4151 | 0.0000 | 0.0000 | 0.0000 | .0274 | .0086 |
| 920 | .0249 | 0.0000 | .9697 | 22.4151 | 0.0000 | 0.0000 | 0.0000 | .0273 | .0085 |
| 921 | 1.9584 | 0.0000 | .9702 | 22.4149 | 0.0000 | 0.0000 | 0.0000 | .0273 | .0084 |
| 922 | 3.9271 | 0.0000 | .9702 | 22.4149 | 0.0000 | 0.0000 | 0.0000 | .0273 | .0083 |
| 923 | 5.9081 | 0.0000 | .9698 | 22.4151 | 0.0000 | 0.0000 | 0.0000 | .0274 | .0083 |
| 924 | 7.9487 | 0.0000 | .9693 | 22.4153 | 0.0000 | 0.0000 | 0.0000 | .0278 | .0083 |
| 925 | 10.0487 | 0.0000 | .9698 | 22.4151 | 0.0000 | 0.0000 | 0.0000 | .0274 | .0086 |
| 926 | 12.0899 | 0.0000 | .9652 | 22.4174 | 0.0000 | 0.0000 | 0.0000 | .0306 | .0086 |
| 927 | 14.2092 | 0.0000 | .9664 | 22.4168 | 0.0000 | 0.0000 | 0.0000 | .0296 | .0088 |
| 928 | 16.1382 | 0.0000 | .9657 | 22.4171 | 0.0000 | 0.0000 | 0.0000 | .0301 | .0091 |
| 929 | 18.1441 | 0.0000 | .9651 | 22.4174 | 0.0000 | 0.0000 | 0.0000 | .0308 | .0096 |
| 930 | 20.2163 | 0.0000 | .9639 | 22.4180 | 0.0000 | 0.0000 | 0.0000 | .0319 | .0099 |
| 931 | 21.5741 | 0.0000 | .9621 | 22.4189 | 0.0000 | 0.0000 | 0.0000 | .0326 | .0101 |
| 932 | .0501 | 0.0000 | .9710 | 22.4145 | 0.0000 | 0.0000 | 0.0000 | .0260 | .0084 |

TEST 995 RUN 55

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 918 | .0245 | .4792 | .0619 | -.1322 | .4792 | .0253 | -.1322 | .4792 | .0533 | -.1322 | 1.0000 |
| 919 | -1.8324 | .3562 | .0548 | -.1660 | .3562 | .0188 | -.1660 | .3562 | .0461 | -.1660 | 1.0000 |
| 920 | .0249 | .4805 | .0648 | -.1311 | .4805 | .0290 | -.1311 | .4805 | .0562 | -.1311 | 1.0000 |
| 921 | 1.9584 | .6044 | .0779 | -.0985 | .6044 | .0422 | -.0985 | .6044 | .0695 | -.0985 | 1.0000 |
| 922 | 3.9271 | .7422 | .0941 | -.0514 | .7422 | .0585 | -.0514 | .7422 | .0858 | -.0514 | 1.0000 |
| 923 | 5.9081 | .8673 | .1310 | -.0217 | .8673 | .0953 | -.0217 | .8673 | .1227 | -.0217 | 1.0000 |
| 924 | 7.9487 | .9970 | .1706 | .0138 | .9970 | .1346 | .0138 | .9970 | .1624 | .0138 | 1.0000 |
| 925 | 10.0487 | 1.0806 | .2218 | .0626 | 1.0806 | .1858 | .0626 | 1.0806 | .2132 | .0626 | 1.0000 |
| 926 | 12.0899 | 1.1520 | .2793 | .1140 | 1.1520 | .2400 | .1140 | 1.1520 | .2706 | .1140 | 1.0000 |
| 927 | 14.2092 | 1.2091 | .3407 | .1723 | 1.2091 | .3023 | .1723 | 1.2091 | .3319 | .1723 | 1.0000 |
| 928 | 16.1382 | 1.2763 | .4181 | .1884 | 1.2763 | .3789 | .1884 | 1.2763 | .4091 | .1884 | 1.0000 |
| 929 | 18.1441 | 1.3798 | .5035 | .2252 | 1.3798 | .4631 | .2252 | 1.3798 | .4939 | .2252 | 1.0000 |
| 930 | 20.2163 | 1.5083 | .6019 | .2651 | 1.5083 | .5601 | .2651 | 1.5083 | .5920 | .2651 | 1.0000 |
| 931 | 21.5741 | 1.5789 | .6699 | .2994 | 1.5789 | .6272 | .2994 | 1.5789 | .6598 | .2994 | 1.0000 |
| 932 | .0501 | .4763 | .0683 | -.1328 | .4763 | .0339 | -.1328 | .4763 | .0599 | -.1328 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 56

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 933 | .166 | 1929 | .04 | -.00 | 100254 | .4780 | .0638 | -.1317 | -.0011 | -.0001 | .0031 |
| 934 | .166 | 1935 | .07 | -.00 | 100243 | .9754 | -.7392 | -.3499 | -.0008 | -.0009 | .0156 |
| 935 | .166 | 1925 | -1.81 | -.00 | 100240 | .8400 | -.7448 | -.3651 | -.0014 | -.0008 | .0151 |
| 936 | .166 | 1922 | .08 | -.00 | 100243 | .9845 | -.7476 | -.3513 | -.0005 | -.0007 | .0135 |
| 937 | .166 | 1932 | 2.01 | -.00 | 100233 | 1.1221 | -.7512 | -.3193 | -.0008 | -.0008 | .0129 |
| 938 | .166 | 1939 | 3.95 | -.00 | 100227 | 1.2699 | -.7599 | -.2875 | .0001 | -.0020 | .0243 |
| 939 | .165 | 1919 | 5.94 | -.00 | 100257 | 1.4514 | -.7804 | -.2615 | .0020 | -.0017 | .0129 |
| 940 | .166 | 1925 | 7.96 | -.00 | 100237 | 1.6495 | -.7883 | -.2394 | .0040 | -.0008 | .0140 |
| 941 | .164 | 1896 | 10.03 | -.00 | 100263 | 1.8608 | -.8231 | -.2246 | .0062 | -.0002 | .0141 |
| 942 | .166 | 1932 | 12.16 | -.00 | 100227 | 2.0655 | -.8191 | -.2017 | .0076 | .0004 | .0161 |
| 943 | .165 | 1919 | 14.23 | -.00 | 100240 | 2.2933 | -.8439 | -.1747 | .0039 | .0005 | .0124 |
| 944 | .166 | 1925 | 16.22 | -.00 | 100230 | 2.4553 | -.8574 | -.1207 | -.0031 | -.0001 | .0120 |
| 945 | .165 | 1916 | 18.23 | -.00 | 100240 | 2.6246 | -.8740 | -.0742 | -.0013 | .0005 | .0168 |
| 946 | .166 | 1925 | 20.23 | -.00 | 100226 | 2.8361 | -.8859 | -.0394 | -.0023 | .0013 | .0188 |
| 947 | .166 | 1922 | 21.58 | -.00 | 100230 | 2.9654 | -.8993 | .0074 | -.0010 | .0012 | .0154 |
| 948 | .164 | 1896 | .09 | -.00 | 100257 | 1.0014 | -.7814 | -.3614 | -.0005 | -.0008 | .0116 |

TEST 995 RUN 56

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 933 | .0383 | 0.0000 | .9736 | 22.4132 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0085 |
| 934 | .0652 | 21.3862 | 2.0931 | 21.8535 | 1.1104 | .8172 | .3185 | -.9934 | .0161 |
| 935 | -1.8070 | 21.3785 | 2.0973 | 21.8513 | 1.1182 | .8228 | .3208 | -1.0019 | .0160 |
| 936 | .0794 | 21.3883 | 2.1014 | 21.8493 | 1.1228 | .8262 | .3221 | -1.0079 | .0162 |
| 937 | 2.0136 | 21.3140 | 2.0931 | 21.8535 | 1.1105 | .8171 | .3186 | -.9944 | .0162 |
| 938 | 3.9469 | 21.4309 | 2.1026 | 21.8487 | 1.1159 | .8210 | .3203 | -.9978 | .0164 |
| 939 | 5.9432 | 21.4539 | 2.1089 | 21.8455 | 1.1313 | .8324 | .3246 | -1.0112 | .0164 |
| 940 | 7.9576 | 21.4863 | 2.1069 | 21.8466 | 1.1297 | .8315 | .3239 | -1.0013 | .0164 |
| 941 | 10.0343 | 21.4825 | 2.1058 | 21.8471 | 1.1466 | .8439 | .3288 | -1.0105 | .0165 |
| 942 | 12.1642 | 21.5520 | 2.1129 | 21.8436 | 1.1312 | .8324 | .3244 | -.9902 | .0161 |
| 943 | 14.2272 | 21.5044 | 2.1098 | 21.8451 | 1.1356 | .8356 | .3258 | -.9861 | .0161 |
| 944 | 16.2155 | 21.5237 | 2.1132 | 21.8434 | 1.1350 | .8354 | .3254 | -.9763 | .0161 |
| 945 | 18.2296 | 21.5310 | 2.1147 | 21.8427 | 1.1423 | .8408 | .3274 | -.9721 | .0160 |
| 946 | 20.2285 | 21.5706 | 2.1150 | 21.8425 | 1.1388 | .8374 | .3264 | -.9555 | .0162 |
| 947 | 21.5807 | 21.5996 | 2.1171 | 21.8414 | 1.1423 | .8406 | .3277 | -.9505 | .0165 |
| 948 | .0887 | 21.6620 | 2.1278 | 21.8361 | 1.1663 | .8584 | .3343 | -1.0466 | .0165 |

TEST 995 RUN 56

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 933 | .0383 | .4780 | .0642 | -.1317 | .4780 | .0316 | -.1317 | .4780 | .0557 | -.1317 | 1.0000 |
| 934 | .0652 | .9762 | -.7380 | -.3499 | .9750 | .3563 | -.2246 | .9763 | -.8170 | -.3570 | 1.2000 |
| 935 | -1.8070 | .8161 | -.7710 | -.3651 | .8513 | .3307 | -.2590 | .8143 | -.8421 | -.3913 | 1.2000 |
| 936 | .0794 | .9855 | -.7462 | -.3513 | .9840 | .3604 | -.2246 | .9856 | -.8129 | -.3570 | 1.2000 |
| 937 | 2.0136 | 1.1478 | -.7113 | -.3193 | 1.1087 | .3823 | -.1940 | 1.1500 | -.7903 | -.3264 | 1.2000 |
| 938 | 3.9469 | 1.3192 | -.6707 | -.2875 | 1.2424 | .4262 | -.1616 | 1.3232 | -.7443 | -.2940 | 1.2000 |
| 939 | 5.9432 | 1.5244 | -.6259 | -.2615 | 1.4073 | .4829 | -.1339 | 1.5288 | -.6841 | -.2663 | 1.2000 |
| 940 | 7.9576 | 1.7428 | -.5524 | -.2394 | 1.5864 | .5501 | -.1120 | 1.7488 | -.6119 | -.2443 | 1.2000 |
| 941 | 10.0343 | 1.9758 | -.4863 | -.2246 | 1.7760 | .6263 | -.0952 | 1.9805 | -.5291 | -.2276 | 1.2000 |
| 942 | 12.1642 | 2.1918 | -.3655 | -.2017 | 1.9534 | .7241 | -.0741 | 2.2006 | -.4228 | -.2064 | 1.2000 |
| 943 | 14.2272 | 2.4303 | -.2544 | -.1747 | 2.1512 | .8303 | -.0466 | 2.4396 | -.3070 | -.1789 | 1.2000 |
| 944 | 16.2155 | 2.5970 | -.1377 | -.1207 | 2.2801 | .9361 | .0074 | 2.6077 | -.1906 | -.1250 | 1.2000 |
| 945 | 18.2296 | 2.7663 | -.0091 | -.0742 | 2.4090 | 1.0599 | .0547 | 2.7760 | -.0546 | -.0777 | 1.2000 |
| 946 | 20.2285 | 2.9675 | .1494 | -.0394 | 2.5741 | 1.2018 | .0890 | 2.9798 | .1000 | -.0434 | 1.2000 |
| 947 | 21.5807 | 3.0883 | .2545 | .0074 | 2.6681 | 1.3002 | .1363 | 3.0997 | .2092 | .0039 | 1.2000 |
| 948 | .0887 | 1.0026 | -.7799 | -.3614 | 1.0008 | .3699 | -.2299 | 1.0026 | -.8035 | -.3622 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 57

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 949 | .165 | 1909 | .07 | -.00 | 100243 | 1.1704 | -1.1507 | -.4552 | -.0006 | .0000 | .0110 |
| 950 | .166 | 1932 | -1.79 | -.00 | 100216 | 1.0280 | -1.1455 | -.4891 | -.0006 | -.0001 | .0132 |
| 951 | .166 | 1922 | .11 | -.00 | 100230 | 1.1852 | -1.1549 | -.4613 | .0002 | .0000 | .0117 |
| 952 | .164 | 1886 | 1.98 | -.00 | 100267 | 1.3343 | -1.1833 | -.4363 | .0008 | .0008 | .0186 |
| 953 | .165 | 1902 | 3.93 | -.00 | 100246 | 1.4838 | -1.1820 | -.4031 | .0020 | .0008 | .0245 |
| 954 | .165 | 1902 | 5.96 | -.00 | 100250 | 1.6678 | -1.1950 | -.3791 | .0049 | -.0013 | .0103 |
| 955 | .166 | 1942 | 7.97 | -.00 | 100210 | 1.8700 | -1.1879 | -.3521 | .0046 | .0001 | .0157 |
| 956 | .164 | 1896 | 10.04 | -.00 | 100257 | 2.0887 | -1.2323 | -.3435 | .0048 | .0003 | .0141 |
| 957 | .165 | 1919 | 12.15 | -.00 | 100243 | 2.3039 | -1.2396 | -.3233 | .0039 | .0008 | .0102 |
| 958 | .165 | 1899 | 14.28 | -.00 | 100253 | 2.5589 | -1.2734 | -.3037 | .0029 | .0009 | .0147 |
| 959 | .165 | 1899 | 16.26 | -.00 | 100253 | 2.7408 | -1.2698 | -.2620 | .0009 | .0013 | .0135 |
| 960 | .165 | 1899 | 18.26 | -.00 | 100253 | 2.9525 | -1.2873 | -.2196 | -.0010 | .0019 | .0125 |
| 961 | .165 | 1899 | 20.30 | -.00 | 100253 | 3.1828 | -1.3084 | -.1901 | -.0041 | .0022 | .0127 |
| 962 | .165 | 1906 | 21.70 | -.00 | 100247 | 3.3467 | -1.3198 | -.1704 | -.0029 | .0025 | .0160 |
| 963 | .165 | 1909 | .10 | -.00 | 100240 | 1.1878 | -1.1735 | -.4770 | .0006 | -.0003 | .0104 |

TEST 995 RUN 57

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 949 | .0744 | 27.0194 | 2.6531 | 21.5735 | 1.6201 | 1.1927 | .4642 | -1.5231 | .0183 |
| 950 | -1.7870 | 27.1725 | 2.6709 | 21.5646 | 1.6157 | 1.1897 | .4626 | -1.5200 | .0180 |
| 951 | .1123 | 27.1435 | 2.6709 | 21.5646 | 1.6218 | 1.1942 | .4645 | -1.5288 | .0183 |
| 952 | 1.9784 | 27.2655 | 2.6755 | 21.5623 | 1.6621 | 1.2239 | .4760 | -1.5622 | .0188 |
| 953 | 3.9300 | 27.2198 | 2.6771 | 21.5615 | 1.6457 | 1.2119 | .4712 | -1.5470 | .0189 |
| 954 | 5.9588 | 27.3615 | 2.6904 | 21.5548 | 1.6576 | 1.2207 | .4746 | -1.5546 | .0192 |
| 955 | 7.9728 | 27.4044 | 2.6923 | 21.5538 | 1.6276 | 1.1987 | .4659 | -1.5175 | .0190 |
| 956 | 10.0411 | 27.4580 | 2.6987 | 21.5507 | 1.6716 | 1.2310 | .4786 | -1.5521 | .0192 |
| 957 | 12.1544 | 27.5208 | 2.6992 | 21.5504 | 1.6549 | 1.2184 | .4741 | -1.5226 | .0188 |
| 958 | 14.2799 | 27.5274 | 2.6999 | 21.5500 | 1.6734 | 1.2322 | .4792 | -1.5260 | .0187 |
| 959 | 16.2597 | 27.2227 | 2.6726 | 21.5637 | 1.6469 | 1.2125 | .4718 | -1.4873 | .0184 |
| 960 | 18.2563 | 27.2315 | 2.6764 | 21.5618 | 1.6495 | 1.2147 | .4723 | -1.4747 | .0178 |
| 961 | 20.2977 | 27.3404 | 2.6798 | 21.5601 | 1.6568 | 1.2199 | .4745 | -1.4594 | .0178 |
| 962 | 21.6985 | 27.3479 | 2.6829 | 21.5586 | 1.6527 | 1.2170 | .4732 | -1.4433 | .0178 |
| 963 | .0952 | 27.4232 | 2.6935 | 21.5532 | 1.6566 | 1.2196 | .4746 | -1.5604 | .0183 |

TEST 995 RUN 57

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 949 | .0744 | 1.1719 | -1.1492 | -.4552 | 1.1698 | .4525 | -.2725 | 1.1717 | -1.0142 | -.4379 | 1.5000 |
| 950 | -1.7870 | .9918 | -1.1770 | -.4891 | 1.0422 | .4200 | -.3068 | .9965 | -1.0460 | -.4723 | 1.5000 |
| 951 | .1123 | 1.1874 | -1.1525 | -.4613 | 1.1843 | .4518 | -.2783 | 1.1871 | -1.0157 | -.4438 | 1.5000 |
| 952 | 1.9784 | 1.3744 | -1.1366 | -.4363 | 1.3170 | .5058 | -.2487 | 1.3676 | -.9600 | -.4142 | 1.5000 |
| 953 | 3.9300 | 1.5613 | -1.0775 | -.4031 | 1.4485 | .5454 | -.2175 | 1.5490 | -.9178 | -.3829 | 1.5000 |
| 954 | 5.9588 | 1.7829 | -1.0154 | -.3791 | 1.6108 | .6140 | -.1921 | 1.7631 | -.8447 | -.3575 | 1.5000 |
| 955 | 7.9728 | 2.0167 | -.9171 | -.3521 | 1.7910 | .6758 | -.1685 | 1.9944 | -.7767 | -.3339 | 1.5000 |
| 956 | 10.0411 | 2.2716 | -.8492 | -.3435 | 1.9801 | .7776 | -.1549 | 2.2358 | -.6666 | -.3204 | 1.5000 |
| 957 | 12.1544 | 2.5133 | -.7267 | -.3233 | 2.1649 | .8723 | -.1366 | 2.4737 | -.5615 | -.3021 | 1.5000 |
| 958 | 14.2799 | 2.7939 | -.6029 | -.3037 | 2.3812 | 1.0001 | -.1149 | 2.7429 | -.4212 | -.2803 | 1.5000 |
| 959 | 16.2597 | 2.9867 | -.4516 | -.2620 | 2.5256 | 1.1110 | -.0763 | 2.9362 | -.2970 | -.2417 | 1.5000 |
| 960 | 18.2563 | 3.2071 | -.2976 | -.2196 | 2.6904 | 1.2511 | -.0335 | 3.1498 | -.1417 | -.1990 | 1.5000 |
| 961 | 20.2977 | 3.4391 | -.1231 | -.1901 | 2.8643 | 1.4131 | -.0032 | 3.3731 | .0375 | -.1687 | 1.5000 |
| 962 | 21.6985 | 3.5975 | .0111 | -.1704 | 2.9865 | 1.5288 | .0161 | 3.5288 | .1661 | -.1494 | 1.5000 |
| 963 | .0952 | 1.1898 | -1.1716 | -.4770 | 1.1870 | .4667 | -.2901 | 1.1894 | -1.0000 | -.4556 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 58

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 964 | .166 | 1932 | .08 | -.00 | 100216 | 1.2597 | -1.3096 | -.4939 | .0025 | -.0003 | .0108 |
| 965 | .166 | 1925 | -1.80 | -.00 | 100220 | 1.0985 | -1.3098 | -.5353 | .0023 | -.0006 | .0109 |
| 966 | .166 | 1925 | .08 | -.00 | 100216 | 1.2469 | -1.3160 | -.5027 | .0033 | -.0004 | .0116 |
| 967 | .166 | 1922 | 2.01 | -.00 | 100223 | 1.3823 | -1.3234 | -.4679 | .0024 | -.0004 | .0126 |
| 968 | .165 | 1919 | 3.93 | -.00 | 100226 | 1.5296 | -1.3328 | -.4354 | .0042 | -.0009 | .0101 |
| 969 | .165 | 1912 | 5.95 | -.00 | 100233 | 1.7201 | -1.3489 | -.4152 | .0082 | -.0017 | .0123 |
| 970 | .166 | 1922 | 7.97 | -.00 | 100220 | 1.9235 | -1.3517 | -.3925 | .0069 | -.0010 | .0110 |
| 971 | .165 | 1909 | 10.00 | -.00 | 100233 | 2.1269 | -1.3774 | -.3707 | .0070 | -.0005 | .0129 |
| 972 | .165 | 1912 | 12.14 | -.00 | 100230 | 2.3777 | -1.3946 | -.3574 | .0059 | -.0001 | .0173 |
| 973 | .165 | 1899 | 14.23 | -.00 | 100243 | 2.6114 | -1.4262 | -.3376 | .0053 | .0005 | .0148 |
| 974 | .167 | 1945 | 16.26 | -.00 | 100196 | 2.8065 | -1.4107 | -.2948 | .0027 | .0013 | .0103 |
| 975 | .166 | 1922 | 18.27 | -.00 | 100220 | 3.0360 | -1.4478 | -.2650 | .0013 | .0016 | .0136 |
| 976 | .166 | 1935 | 20.24 | -.00 | 100206 | 3.2685 | -1.4553 | -.2345 | -.0009 | .0020 | .0123 |
| 977 | .166 | 1925 | 21.70 | -.00 | 100216 | 3.4639 | -1.4771 | -.2224 | -.0012 | .0017 | .0124 |
| 978 | .167 | 1945 | .10 | -.00 | 100193 | 1.2361 | -1.3070 | -.5028 | .0025 | -.0006 | .0059 |
| 979 | .166 | 1939 | .03 | -.00 | 100189 | .4779 | .0606 | -.1344 | -.0019 | -.0000 | .0057 |

TEST 995 RUN 58

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 964 | .0847 | 29.4903 | 2.8967 | 21.4517 | 1.8164 | 1.3374 | .5202 | -1.7262 | .0191 |
| 965 | -1.8017 | 29.4888 | 2.8941 | 21.4529 | 1.8226 | 1.3423 | .5218 | -1.7290 | .0187 |
| 966 | .0761 | 29.5315 | 2.9007 | 21.4497 | 1.8270 | 1.3455 | .5231 | -1.7358 | .0192 |
| 967 | 2.0072 | 29.5444 | 2.9001 | 21.4499 | 1.8308 | 1.3483 | .5242 | -1.7373 | .0196 |
| 968 | 3.9318 | 29.5470 | 2.9025 | 21.4488 | 1.8339 | 1.3503 | .5253 | -1.7395 | .0200 |
| 969 | 5.9488 | 29.5493 | 2.9055 | 21.4472 | 1.8426 | 1.3571 | .5274 | -1.7431 | .0202 |
| 970 | 7.9745 | 29.5575 | 2.9062 | 21.4469 | 1.8322 | 1.3491 | .5247 | -1.7271 | .0199 |
| 971 | 10.0043 | 29.5650 | 2.9031 | 21.4484 | 1.8448 | 1.3583 | .5284 | -1.7267 | .0202 |
| 972 | 12.1424 | 29.6001 | 2.9053 | 21.4473 | 1.8449 | 1.3585 | .5284 | -1.7131 | .0200 |
| 973 | 14.2284 | 29.5917 | 2.9065 | 21.4467 | 1.8579 | 1.3681 | .5320 | -1.7117 | .0197 |
| 974 | 16.2595 | 29.5880 | 2.9068 | 21.4466 | 1.8135 | 1.3354 | .5194 | -1.6544 | .0191 |
| 975 | 18.2692 | 29.5741 | 2.9069 | 21.4465 | 1.8343 | 1.3505 | .5255 | -1.6566 | .0187 |
| 976 | 20.2425 | 29.5849 | 2.9053 | 21.4474 | 1.8231 | 1.3425 | .5220 | -1.6240 | .0186 |
| 977 | 21.6978 | 29.5888 | 2.9017 | 21.4491 | 1.8315 | 1.3486 | .5245 | -1.6137 | .0188 |
| 978 | .0991 | 29.5684 | 2.9069 | 21.4465 | 1.8132 | 1.3352 | .5193 | -1.7234 | .0193 |
| 979 | .0337 | 0.0000 | .9562 | 22.4219 | 0.0000 | 0.0000 | 0.0000 | .0397 | .0088 |

TEST 995 RUN 58

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 964 | .0847 | 1.2616 | -1.3078 | -.4939 | 1.2589 | .4895 | -.2890 | 1.2615 | -1.2705 | -.4875 | 1.8000 |
| 965 | -1.8017 | 1.0568 | -1.3437 | -.5353 | 1.1141 | .4592 | -.3297 | 1.0588 | -1.2999 | -.5282 | 1.8000 |
| 966 | .0761 | 1.2487 | -1.3143 | -.5027 | 1.2462 | .4935 | -.2965 | 1.2486 | -1.2665 | -.4951 | 1.8000 |
| 967 | 2.0072 | 1.4278 | -1.2742 | -.4679 | 1.3637 | .5359 | -.2613 | 1.4253 | -1.2230 | -.4599 | 1.8000 |
| 968 | 3.9318 | 1.6174 | -1.2248 | -.4354 | 1.4916 | .5848 | -.2285 | 1.6123 | -1.1710 | -.4270 | 1.8000 |
| 969 | 5.9488 | 1.8506 | -1.1634 | -.4152 | 1.6596 | .6491 | -.2073 | 1.8420 | -1.1014 | -.4059 | 1.8000 |
| 970 | 7.9745 | 2.0924 | -1.0717 | -.3925 | 1.8382 | .7229 | -.1858 | 2.0824 | -1.0201 | -.3843 | 1.8000 |
| 971 | 10.0043 | 2.3339 | -.9870 | -.3707 | 2.0134 | .8095 | -.1625 | 2.3192 | -.9237 | -.3611 | 1.8000 |
| 972 | 12.1424 | 2.6179 | -.8633 | -.3574 | 2.2298 | .9203 | -.1492 | 2.6000 | -.8003 | -.3478 | 1.8000 |
| 973 | 14.2284 | 2.8819 | -.7406 | -.3376 | 2.4252 | 1.0486 | -.1288 | 2.8578 | -.6655 | -.3265 | 1.8000 |
| 974 | 16.2595 | 3.0892 | -.5685 | -.2948 | 2.5815 | 1.1533 | -.0902 | 3.0742 | -.5363 | -.2888 | 1.8000 |
| 975 | 18.2692 | 3.3368 | -.4231 | -.2650 | 2.7618 | 1.3001 | -.0581 | 3.3135 | -.3712 | -.2566 | 1.8000 |
| 976 | 20.2425 | 3.5701 | -.2345 | -.2345 | 2.9393 | 1.4574 | -.0288 | 3.5483 | -.1939 | -.2273 | 1.8000 |
| 977 | 21.6978 | 3.7646 | -.0918 | -.2224 | 3.0874 | 1.5912 | -.0157 | 3.7381 | -.0441 | -.2143 | 1.8000 |
| 978 | .0991 | 1.2383 | -1.3049 | -.5028 | 1.2352 | .4891 | -.2983 | 1.2382 | -1.2709 | -.4968 | 1.8000 |
| 979 | .0337 | .4778 | .0609 | -.1344 | .4778 | .0124 | -.1344 | .4778 | .0521 | -.1344 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 61

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1003 | .165 | 1909 | .01 | -.00 | 100196 | .1714 | .0444 | -.0395 | -.0015 | -.0004 | .0025 |
| 1004 | .166 | 1932 | -1.84 | .00 | 100172 | .0340 | .0494 | -.0731 | -.0017 | -.0003 | .0016 |
| 1005 | .166 | 1939 | .03 | .00 | 100166 | .1735 | .0485 | -.0369 | -.0012 | -.0002 | .0001 |
| 1006 | .166 | 1942 | 1.94 | .00 | 100166 | .2931 | .0440 | -.0059 | -.0016 | -.0002 | .0009 |
| 1007 | .166 | 1939 | 3.89 | -.00 | 100169 | .4186 | .0351 | .0310 | -.0020 | .0001 | .0064 |
| 1008 | .167 | 1949 | 5.88 | -.00 | 100156 | .5628 | .0257 | .0644 | -.0020 | -.0004 | .0091 |
| 1009 | .165 | 1912 | 7.86 | -.00 | 100192 | .7105 | .0174 | .1036 | -.0022 | -.0002 | .0054 |
| 1010 | .166 | 1932 | 10.03 | -.00 | 100169 | .8610 | .0086 | .1383 | -.0010 | .0004 | .0093 |
| 1011 | .166 | 1925 | 12.09 | -.00 | 100176 | .9718 | .0111 | .1798 | -.0012 | -.0000 | .0076 |
| 1012 | .165 | 1906 | 14.15 | .00 | 100196 | 1.0720 | .0038 | .2325 | -.0010 | -.0005 | .0025 |
| 1013 | .165 | 1902 | 16.11 | -.00 | 100199 | 1.1774 | .0218 | .2521 | -.0013 | .0004 | .0065 |
| 1014 | .164 | 1879 | 18.13 | .00 | 100223 | 1.2943 | .0223 | .2845 | -.0014 | -.0001 | -.0006 |
| 1015 | .166 | 1929 | 20.16 | -.00 | 100172 | 1.4451 | .0135 | .3268 | -.0007 | .0013 | .0141 |
| 1016 | .164 | 1886 | 21.70 | -.00 | 100216 | 1.5590 | .0112 | .3610 | -.0002 | .0002 | .0128 |
| 1017 | .166 | 1932 | .02 | -.00 | 100166 | .1717 | .0497 | -.0377 | -.0009 | -.0000 | .0023 |

TEST 995 RUN 61

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1003 | .0088 | 0.0000 | .9777 | 8.8223 | 0.0000 | 0.0000 | 0.0000 | .0205 | .0079 |
| 1004 | -1.8427 | 0.0000 | .9776 | 8.8224 | 0.0000 | 0.0000 | 0.0000 | .0204 | .0077 |
| 1005 | .0324 | 0.0000 | .9778 | 8.8222 | 0.0000 | 0.0000 | 0.0000 | .0201 | .0079 |
| 1006 | 1.9443 | 0.0000 | .9783 | 8.8217 | 0.0000 | 0.0000 | 0.0000 | .0196 | .0079 |
| 1007 | 3.8869 | 0.0000 | .9778 | 8.8222 | 0.0000 | 0.0000 | 0.0000 | .0200 | .0080 |
| 1008 | 5.8886 | 0.0000 | .9773 | 8.8227 | 0.0000 | 0.0000 | 0.0000 | .0204 | .0080 |
| 1009 | 7.8561 | 0.0000 | .9772 | 8.8228 | 0.0000 | 0.0000 | 0.0000 | .0208 | .0082 |
| 1010 | 10.0269 | 0.0000 | .9760 | 8.8240 | 0.0000 | 0.0000 | 0.0000 | .0215 | .0082 |
| 1011 | 12.0884 | 0.0000 | .9746 | 8.8254 | 0.0000 | 0.0000 | 0.0000 | .0227 | .0086 |
| 1012 | 14.1456 | 0.0000 | .9730 | 8.8270 | 0.0000 | 0.0000 | 0.0000 | .0242 | .0085 |
| 1013 | 16.1148 | 0.0000 | .9697 | 8.8303 | 0.0000 | 0.0000 | 0.0000 | .0269 | .0088 |
| 1014 | 18.1265 | 0.0000 | .9689 | 8.8311 | 0.0000 | 0.0000 | 0.0000 | .0276 | .0091 |
| 1015 | 20.1607 | 0.0000 | .9668 | 8.8332 | 0.0000 | 0.0000 | 0.0000 | .0284 | .0094 |
| 1016 | 21.6964 | 0.0000 | .9672 | 8.8328 | 0.0000 | 0.0000 | 0.0000 | .0284 | .0093 |
| 1017 | .0206 | 0.0000 | .9791 | 8.8209 | 0.0000 | 0.0000 | 0.0000 | .0190 | .0079 |

TEST 995 RUN 61

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1003 | .0088 | .1714 | .0444 | -.0395 | .1714 | .0160 | -.0395 | .1714 | .0365 | -.0395 | 1.0000 |
| 1004 | -1.8427 | .0356 | .0483 | -.0731 | .0356 | .0203 | -.0731 | .0356 | .0407 | -.0731 | 1.0000 |
| 1005 | .0324 | .1735 | .0486 | -.0369 | .1735 | .0207 | -.0369 | .1735 | .0408 | -.0369 | 1.0000 |
| 1006 | 1.9443 | .2914 | .0539 | -.0059 | .2914 | .0264 | -.0059 | .2914 | .0460 | -.0059 | 1.0000 |
| 1007 | 3.8869 | .4153 | .0634 | .0310 | .4153 | .0353 | .0310 | .4153 | .0554 | .0310 | 1.0000 |
| 1008 | 5.8886 | .5572 | .0833 | .0644 | .5572 | .0549 | .0644 | .5572 | .0753 | .0644 | 1.0000 |
| 1009 | 7.8561 | .7014 | .1144 | .1036 | .7014 | .0854 | .1036 | .7014 | .1062 | .1036 | 1.0000 |
| 1010 | 10.0269 | .8464 | .1584 | .1383 | .8464 | .1287 | .1383 | .8464 | .1502 | .1383 | 1.0000 |
| 1011 | 12.0884 | .9479 | .2144 | .1798 | .9479 | .1831 | .1798 | .9479 | .2058 | .1798 | 1.0000 |
| 1012 | 14.1456 | 1.0385 | .2657 | .2325 | 1.0385 | .2330 | .2325 | 1.0385 | .2572 | .2325 | 1.0000 |
| 1013 | 16.1148 | 1.1251 | .3478 | .2521 | 1.1251 | .3121 | .2521 | 1.1251 | .3390 | .2521 | 1.0000 |
| 1014 | 18.1265 | 1.2231 | .4239 | .2845 | 1.2231 | .3871 | .2845 | 1.2231 | .4147 | .2845 | 1.0000 |
| 1015 | 20.1607 | 1.3519 | .5107 | .3268 | 1.3519 | .4729 | .3268 | 1.3519 | .5013 | .3268 | 1.0000 |
| 1016 | 21.6964 | 1.4444 | .5867 | .3610 | 1.4444 | .5490 | .3610 | 1.4444 | .5774 | .3610 | 1.0000 |
| 1017 | .0206 | .1717 | .0497 | -.0377 | .1717 | .0228 | -.0377 | .1717 | .0416 | -.0377 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 62

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1018 | .165 | 1919 | .01 | -.00 | 100176 | .1705 | .0486 | -.0382 | -.0010 | .0006 | .0061 |
| 1019 | .166 | 1935 | .02 | -.00 | 100152 | .3454 | -.8166 | -.1003 | -.0013 | -.0005 | .0115 |
| 1020 | .166 | 1939 | -1.86 | -.00 | 100149 | .1880 | -.8202 | -.1291 | -.0015 | -.0005 | .0130 |
| 1021 | .166 | 1935 | .06 | -.00 | 100152 | .3524 | -.8243 | -.1009 | -.0021 | -.0002 | .0073 |
| 1022 | .166 | 1925 | 1.94 | -.00 | 100162 | .4901 | -.8331 | -.0724 | -.0008 | .0002 | .0088 |
| 1023 | .165 | 1906 | 3.92 | -.00 | 100182 | .6378 | -.8520 | -.0391 | -.0010 | -.0001 | .0107 |
| 1024 | .166 | 1929 | 5.95 | -.00 | 100159 | .7859 | -.8402 | -.0042 | .0005 | -.0006 | .0104 |
| 1025 | .165 | 1912 | 7.97 | -.00 | 100175 | .9653 | -.8578 | .0222 | .0029 | -.0024 | .0375 |
| 1026 | .165 | 1906 | 10.02 | -.00 | 100182 | 1.1607 | -.8738 | .0438 | .0006 | .0001 | .0105 |
| 1027 | .165 | 1912 | 12.08 | -.00 | 100175 | 1.3647 | -.8907 | .0638 | .0019 | .0010 | .0108 |
| 1028 | .166 | 1942 | 14.21 | -.00 | 100145 | 1.5804 | -.8938 | .0925 | .0012 | .0009 | .0080 |
| 1029 | .164 | 1892 | 16.16 | -.00 | 100196 | 1.7767 | -.9347 | .1184 | -.0003 | .0016 | .0140 |
| 1030 | .165 | 1909 | 18.23 | -.00 | 100179 | 1.9648 | -.9457 | .1633 | -.0015 | .0019 | .0114 |
| 1031 | .164 | 1889 | 20.20 | -.00 | 100192 | 2.1937 | -.9708 | .1935 | -.0031 | .0019 | .0112 |
| 1032 | .166 | 1935 | 21.62 | -.00 | 100145 | 2.3557 | -.9637 | .2132 | -.0038 | .0024 | .0105 |
| 1033 | .167 | 1952 | .02 | -.00 | 100129 | .3469 | -.8291 | -.1026 | -.0017 | -.0002 | .0095 |

TEST 995 RUN 62

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1018 | .0065 | 0.0000 | .9788 | 8.8212 | 0.0000 | 0.0000 | 0.0000 | .0194 | .0080 |
| 1019 | .0184 | 21.3992 | 2.1128 | 7.6872 | 1.1228 | .8263 | .3220 | -1.0104 | .0233 |
| 1020 | -1.8617 | 21.4225 | 2.1153 | 7.6847 | 1.1249 | .8280 | .3225 | -1.0104 | .0232 |
| 1021 | .0560 | 21.4396 | 2.1180 | 7.6820 | 1.1289 | .8309 | .3237 | -1.0151 | .0235 |
| 1022 | 1.9429 | 21.4970 | 2.1300 | 7.6700 | 1.1429 | .8413 | .3276 | -1.0308 | .0238 |
| 1023 | 3.9169 | 21.5389 | 2.1273 | 7.6727 | 1.1569 | .8516 | .3316 | -1.0374 | .0241 |
| 1024 | 5.9484 | 21.3359 | 2.1136 | 7.6864 | 1.1287 | .8309 | .3234 | -1.0093 | .0237 |
| 1025 | 7.9701 | 21.3475 | 2.1117 | 7.6883 | 1.1386 | .8382 | .3263 | -1.0120 | .0237 |
| 1026 | 10.0184 | 21.3819 | 2.1135 | 7.6865 | 1.1453 | .8431 | .3282 | -1.0115 | .0237 |
| 1027 | 12.0809 | 21.4018 | 2.1151 | 7.6849 | 1.1433 | .8417 | .3276 | -1.0023 | .0233 |
| 1028 | 14.2089 | 21.4244 | 2.1187 | 7.6813 | 1.1285 | .8309 | .3233 | -.9813 | .0227 |
| 1029 | 16.1637 | 21.4182 | 2.1210 | 7.6790 | 1.1583 | .8527 | .3319 | -1.0002 | .0227 |
| 1030 | 18.2288 | 21.4713 | 2.1259 | 7.6741 | 1.1524 | .8483 | .3304 | -.9848 | .0220 |
| 1031 | 20.1991 | 21.4563 | 2.1278 | 7.6722 | 1.1654 | .8581 | .3338 | -.9849 | .0221 |
| 1032 | 21.6246 | 21.4956 | 2.1305 | 7.6695 | 1.1398 | .8390 | .3267 | -.9542 | .0221 |
| 1033 | .0187 | 21.6080 | 2.1415 | 7.6585 | 1.1399 | .8391 | .3267 | -1.0275 | .0239 |

TEST 995 RUN 62

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1018 | .0065 | .1705 | .0486 | -.0382 | .1705 | .0212 | -.0382 | .1705 | .0486 | -.0382 | 1.0000 |
| 1019 | .0184 | .3457 | -.8165 | -.1003 | .3453 | .2829 | .0264 | .3457 | -.8904 | -.1060 | 1.2000 |
| 1020 | -1.8617 | .1613 | -.8259 | -.1291 | .1978 | .2752 | -.0022 | .1597 | -.8975 | -.1346 | 1.2000 |
| 1021 | .0560 | .3532 | -.8239 | -.1009 | .3521 | .2815 | .0265 | .3532 | -.8919 | -.1059 | 1.2000 |
| 1022 | 1.9429 | .5181 | -.8160 | -.0724 | .4794 | .3024 | .0566 | .5191 | -.8702 | -.0758 | 1.2000 |
| 1023 | 3.9169 | .6945 | -.8065 | -.0391 | .6155 | .3236 | .0914 | .6956 | -.8470 | -.0409 | 1.2000 |
| 1024 | 5.9484 | .8687 | -.7542 | -.0042 | .7517 | .3447 | .1231 | .8733 | -.8223 | -.0093 | 1.2000 |
| 1025 | 7.9701 | 1.0749 | -.7157 | .0222 | .9171 | .3883 | .1506 | 1.0798 | -.7737 | .0183 | 1.2000 |
| 1026 | 10.0184 | 1.2951 | -.6585 | .0438 | 1.0958 | .4456 | .1730 | 1.2999 | -.7098 | .0406 | 1.2000 |
| 1027 | 12.0809 | 1.5209 | -.5853 | .0638 | 1.2816 | .5094 | .1928 | 1.5271 | -.6380 | .0605 | 1.2000 |
| 1028 | 14.2089 | 1.7515 | -.4785 | .0925 | 1.4745 | .5927 | .2198 | 1.7625 | -.5447 | .0874 | 1.2000 |
| 1029 | 16.1637 | 1.9667 | -.4031 | .1184 | 1.6442 | .6867 | .2491 | 1.9788 | -.4402 | .1167 | 1.2000 |
| 1030 | 18.2288 | 2.1620 | -.2836 | .1633 | 1.8015 | .7890 | .2934 | 2.1686 | -.3254 | .1610 | 1.2000 |
| 1031 | 20.1991 | 2.3939 | -.1536 | .1935 | 1.9916 | .9188 | .3250 | 2.3967 | -.1832 | .1926 | 1.2000 |
| 1032 | 21.6246 | 2.5451 | -.0277 | .2132 | 2.1250 | 1.0098 | .3418 | 2.5574 | -.0810 | .2094 | 1.2000 |
| 1033 | .0187 | .3472 | -.8290 | -.1026 | .3468 | .2870 | .0260 | .3472 | -.8864 | -.1063 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 63

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1034 | .167 | 1955 | .02 | -.00 | 100115 | .4307 | -1.1963 | -.1474 | -.0022 | -.0009 | .0129 |
| 1035 | .167 | 1952 | -1.84 | -.00 | 100115 | .2761 | -1.2079 | -.1732 | -.0022 | -.0008 | .0111 |
| 1036 | .166 | 1929 | .89 | -.00 | 100138 | .4440 | -1.2247 | -.1459 | -.0018 | .0001 | .0262 |
| 1037 | .165 | 1916 | 1.96 | -.00 | 100152 | .5919 | -1.2367 | -.1208 | -.0016 | -.0003 | .0150 |
| 1038 | .167 | 1945 | 3.90 | -.00 | 100122 | .7365 | -1.2283 | -.0852 | -.0015 | -.0003 | .0132 |
| 1039 | .165 | 1909 | 5.89 | -.00 | 100159 | .8949 | -1.2651 | -.0545 | -.0000 | -.0011 | .0144 |
| 1040 | .166 | 1932 | 7.95 | -.00 | 100128 | 1.0679 | -1.2382 | -.0266 | .0021 | -.0011 | .0161 |
| 1041 | .164 | 1892 | 9.97 | -.00 | 100168 | 1.2741 | -1.2796 | -.0083 | -.0003 | -.0009 | .0143 |
| 1042 | .165 | 1909 | 12.10 | -.00 | 100155 | 1.4715 | -1.2850 | .0155 | .0010 | -.0002 | .0086 |
| 1043 | .165 | 1909 | 14.16 | -.00 | 100145 | 1.6946 | -1.3063 | .0412 | .0001 | -.0002 | .0084 |
| 1044 | .164 | 1879 | 16.17 | -.00 | 100175 | 1.9096 | -1.3492 | .0671 | -.0002 | .0008 | .0177 |
| 1045 | .163 | 1866 | 18.20 | -.00 | 100189 | 2.1302 | -1.3813 | .1001 | -.0002 | .0013 | .0123 |
| 1046 | .161 | 1823 | 20.31 | -.00 | 100232 | 2.4166 | -1.4357 | .1134 | -.0007 | .0025 | .0155 |
| 1047 | .161 | 1823 | 21.60 | -.00 | 100232 | 2.6237 | -1.4545 | .1034 | -.0017 | .0023 | .0179 |
| 1048 | .167 | 1949 | .86 | -.00 | 100098 | .4405 | -1.2280 | -.1483 | -.0019 | -.0012 | .0119 |

TEST 995 RUN 63

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1034 | .0243 | 26.6648 | 2.6539 | 7.1461 | 1.5708 | 1.1566 | .4499 | -1.4860 | .0293 |
| 1035 | -1.8381 | 26.7859 | 2.6629 | 7.1371 | 1.5824 | 1.1650 | .4534 | -1.4959 | .0291 |
| 1036 | .0853 | 26.8138 | 2.6708 | 7.1292 | 1.6057 | 1.1822 | .4600 | -1.5221 | .0298 |
| 1037 | 1.9564 | 26.8436 | 2.6680 | 7.1320 | 1.6175 | 1.1908 | .4635 | -1.5293 | .0302 |
| 1038 | 3.9027 | 26.8695 | 2.6788 | 7.1212 | 1.5982 | 1.1768 | .4577 | -1.5127 | .0301 |
| 1039 | 5.8908 | 26.9203 | 2.6827 | 7.1173 | 1.6323 | 1.2018 | .4676 | -1.5410 | .0305 |
| 1040 | 7.9498 | 26.6861 | 2.6551 | 7.1449 | 1.5938 | 1.1731 | .4562 | -1.4906 | .0297 |
| 1041 | 9.9660 | 26.6234 | 2.6515 | 7.1485 | 1.6211 | 1.1936 | .4643 | -1.5107 | .0298 |
| 1042 | 12.0993 | 26.7056 | 2.6581 | 7.1419 | 1.6140 | 1.1884 | .4623 | -1.4925 | .0288 |
| 1043 | 14.1575 | 26.7414 | 2.6615 | 7.1385 | 1.6173 | 1.1908 | .4632 | -1.4830 | .0282 |
| 1044 | 16.1736 | 26.8451 | 2.6651 | 7.1349 | 1.6504 | 1.2153 | .4727 | -1.4958 | .0280 |
| 1045 | 18.1981 | 26.8886 | 2.6704 | 7.1296 | 1.6665 | 1.2271 | .4772 | -1.4950 | .0274 |
| 1046 | 20.3079 | 26.8866 | 2.6741 | 7.1259 | 1.7071 | 1.2571 | .4888 | -1.5146 | .0274 |
| 1047 | 21.5980 | 26.9277 | 2.6782 | 7.1218 | 1.7118 | 1.2608 | .4899 | -1.5053 | .0272 |
| 1048 | .0552 | 27.0555 | 2.6878 | 7.1122 | 1.6113 | 1.1865 | .4614 | -1.5213 | .0299 |

TEST 995 RUN 63

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1034 | .0243 | .4312 | -1.1962 | -.1474 | .4305 | .3454 | .0298 | .4311 | -1.1213 | -.1356 | 1.5000 |
| 1035 | -1.8381 | .2372 | -1.2161 | -.1732 | .2880 | .3364 | .0053 | .2409 | -1.1295 | -.1601 | 1.5000 |
| 1036 | .0853 | .4458 | -1.2241 | -.1459 | .4434 | .3518 | .0352 | .4456 | -1.1148 | -.1302 | 1.5000 |
| 1037 | 1.9564 | .6337 | -1.2158 | -.1208 | .5785 | .3785 | .0617 | .6286 | -1.0953 | -.1038 | 1.5000 |
| 1038 | 3.9027 | .8184 | -1.1753 | -.0852 | .7096 | .3891 | .0951 | .8095 | -1.0741 | -.0703 | 1.5000 |
| 1039 | 5.8908 | 1.0200 | -1.1666 | -.0545 | .8525 | .4266 | .1297 | 1.0030 | -1.0323 | -.0358 | 1.5000 |
| 1040 | 7.9498 | 1.2289 | -1.0786 | -.0266 | 1.0085 | .4695 | .1532 | 1.2114 | -.9831 | -.0123 | 1.5000 |
| 1041 | 9.9660 | 1.4763 | -1.0398 | -.0083 | 1.1958 | .5271 | .1746 | 1.4496 | -.9174 | .0091 | 1.5000 |
| 1042 | 12.0993 | 1.7081 | -.9481 | .0155 | 1.3698 | .6013 | .1976 | 1.6772 | -.8328 | .0321 | 1.5000 |
| 1043 | 14.1575 | 1.9626 | -.8522 | .0412 | 1.5670 | .6877 | .2237 | 1.9258 | -.7344 | .0582 | 1.5000 |
| 1044 | 16.1736 | 2.2098 | -.7639 | .0671 | 1.7501 | .7932 | .2533 | 2.1586 | -.6154 | .0878 | 1.5000 |
| 1045 | 18.1981 | 2.4550 | -.6469 | .1001 | 1.9346 | .9088 | .2881 | 2.3926 | -.4845 | .1226 | 1.5000 |
| 1046 | 20.3079 | 2.7647 | -.5077 | .1134 | 2.1722 | 1.0659 | .3060 | 2.6813 | -.3096 | .1405 | 1.5000 |
| 1047 | 21.5980 | 2.9748 | -.3866 | .1034 | 2.3447 | 1.1779 | .2965 | 2.8846 | -.1858 | .1310 | 1.5000 |
| 1048 | .0552 | .4417 | -1.2276 | -.1483 | .4402 | .3537 | .0335 | .4416 | -1.1129 | -.1328 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 64

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1049 | .166 | 1939 | .05 | -.00 | 100101 | .4362 | -1.3981 | -.1514 | -.0022 | -.0006 | .0129 |
| 1050 | .166 | 1929 | -1.82 | -.00 | 100111 | .2764 | -1.3996 | -.1779 | -.0021 | -.0006 | .0143 |
| 1051 | .166 | 1939 | .03 | -.00 | 100105 | .4338 | -1.3847 | -.1495 | -.0017 | -.0003 | .0115 |
| 1052 | .165 | 1912 | 2.00 | -.00 | 100128 | .5947 | -1.4013 | -.1205 | -.0018 | -.0001 | .0147 |
| 1053 | .165 | 1912 | 3.93 | .00 | 100128 | .7411 | -1.4012 | -.0894 | -.0017 | .0010 | -.0077 |
| 1054 | .165 | 1916 | 5.90 | -.00 | 100125 | .8971 | -1.4067 | -.0541 | .0007 | -.0012 | .0145 |
| 1055 | .167 | 1955 | 7.92 | -.00 | 100085 | 1.0687 | -1.3906 | -.0256 | .0026 | -.0013 | .0152 |
| 1056 | .165 | 1906 | 10.02 | -.00 | 100135 | 1.2802 | -1.4403 | -.0082 | .0006 | -.0011 | .0192 |
| 1057 | .163 | 1869 | 12.09 | -.00 | 100172 | 1.4864 | -1.4846 | .0123 | -.0000 | -.0004 | .0158 |
| 1058 | .167 | 1955 | 14.19 | -.00 | 100078 | 1.6888 | -1.4398 | .0456 | .0020 | .0005 | .0073 |
| 1059 | .165 | 1916 | 16.21 | -.00 | 100118 | 1.9003 | -1.4986 | .0707 | .0017 | .0005 | .0138 |
| 1060 | .165 | 1899 | 18.21 | -.00 | 100135 | 2.1251 | -1.5241 | .1012 | .0008 | .0014 | .0136 |
| 1061 | .165 | 1906 | 20.19 | .00 | 100128 | 2.3821 | -1.5404 | .1167 | -.0005 | .0005 | -.0038 |
| 1062 | .165 | 1902 | 21.57 | -.00 | 100131 | 2.6142 | -1.5598 | .1137 | -.0018 | .0027 | .0136 |
| 1063 | .167 | 1949 | .05 | -.00 | 100078 | .4387 | -1.3774 | -.1484 | -.0022 | -.0008 | .0138 |
| 1064 | .166 | 1929 | .02 | .00 | 100098 | .1707 | .0395 | -.0411 | -.0013 | -.0003 | .0012 |

TEST 995 RUN 64

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1049 | .0464 | 28.8565 | 2.9061 | 6.8939 | 1.7855 | 1.3149 | .5112 | -1.7269 | .0332 |
| 1050 | -1.8188 | 28.7544 | 2.8959 | 6.9041 | 1.7854 | 1.3148 | .5112 | -1.7258 | .0329 |
| 1051 | .0347 | 28.6856 | 2.8872 | 6.9128 | 1.7701 | 1.3035 | .5068 | -1.7098 | .0330 |
| 1052 | 2.0033 | 28.6233 | 2.8839 | 6.9161 | 1.7900 | 1.3182 | .5125 | -1.7298 | .0336 |
| 1053 | 3.9256 | 28.5834 | 2.8752 | 6.9248 | 1.7849 | 1.3143 | .5111 | -1.7189 | .0335 |
| 1054 | 5.9039 | 28.5162 | 2.8672 | 6.9328 | 1.7751 | 1.3070 | .5085 | -1.7034 | .0334 |
| 1055 | 7.9210 | 28.5271 | 2.8733 | 6.9267 | 1.7423 | 1.2831 | .4988 | -1.6665 | .0326 |
| 1056 | 10.0238 | 28.6177 | 2.8714 | 6.9286 | 1.7921 | 1.3195 | .5133 | -1.6991 | .0328 |
| 1057 | 12.0923 | 28.5965 | 2.8756 | 6.9244 | 1.8276 | 1.3460 | .5231 | -1.7245 | .0327 |
| 1058 | 14.1851 | 28.6217 | 2.8808 | 6.9192 | 1.7489 | 1.2877 | .5009 | -1.6377 | .0305 |
| 1059 | 16.2081 | 28.6706 | 2.8839 | 6.9161 | 1.7890 | 1.3174 | .5123 | -1.6590 | .0303 |
| 1060 | 18.2141 | 28.6767 | 2.8838 | 6.9162 | 1.8058 | 1.3291 | .5169 | -1.6556 | .0298 |
| 1061 | 20.1876 | 28.7038 | 2.8822 | 6.9178 | 1.8001 | 1.3255 | .5155 | -1.6286 | .0291 |
| 1062 | 21.5651 | 28.7005 | 2.8869 | 6.9131 | 1.8044 | 1.3286 | .5167 | -1.6207 | .0288 |
| 1063 | .0468 | 28.7000 | 2.8949 | 6.9051 | 1.7678 | 1.3016 | .5063 | -1.7077 | .0327 |
| 1064 | .0157 | 0.0000 | .9592 | 8.8408 | 0.0000 | 0.0000 | 0.0000 | .0371 | .0084 |

TEST 995 RUN 64

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1049 | .0464 | .4373 | -1.3977 | -.1514 | .4358 | .3546 | .0500 | .4373 | -1.4054 | -.1485 | 1.8000 |
| 1050 | -1.8188 | .2318 | -1.4076 | -.1779 | .2885 | .3440 | .0236 | .2326 | -1.4151 | -.1750 | 1.8000 |
| 1051 | .0347 | .4347 | -1.3844 | -.1495 | .4336 | .3526 | .0502 | .4347 | -1.4074 | -.1484 | 1.8000 |
| 1052 | 2.0033 | .6433 | -1.3796 | -.1205 | .5807 | .3757 | .0814 | .6423 | -1.3832 | -.1171 | 1.8000 |
| 1053 | 3.9256 | .8353 | -1.3472 | -.0894 | .7131 | .4800 | .1120 | .8336 | -1.3559 | -.0866 | 1.8000 |
| 1054 | 5.9039 | 1.0370 | -1.3070 | -.0541 | .8544 | .4253 | .1462 | 1.0355 | -1.3254 | -.0524 | 1.8000 |
| 1055 | 7.9210 | 1.2502 | -1.2301 | -.0256 | 1.0101 | .4638 | .1710 | 1.2526 | -1.2802 | -.0276 | 1.8000 |
| 1056 | 10.0238 | 1.5114 | -1.1955 | -.0082 | 1.1994 | .5365 | .1940 | 1.5058 | -1.1967 | -.0046 | 1.8000 |
| 1057 | 12.0923 | 1.7664 | -1.1398 | .0123 | 1.3835 | .6145 | .2185 | 1.7522 | -1.1065 | .0200 | 1.8000 |
| 1058 | 14.1851 | 1.9901 | -.9821 | .0456 | 1.5615 | .6829 | .2429 | 1.9928 | -1.0234 | .0443 | 1.8000 |
| 1059 | 16.2081 | 2.2408 | -.9010 | .0707 | 1.7414 | .7867 | .2725 | 2.2327 | -.9033 | .0740 | 1.8000 |
| 1060 | 18.2141 | 2.4950 | -.7835 | .1012 | 1.9308 | .9012 | .3048 | 2.4810 | -.7706 | .1063 | 1.8000 |
| 1061 | 20.1876 | 2.7673 | -.6237 | .1167 | 2.1461 | 1.0366 | .3198 | 2.7535 | -.6152 | .1212 | 1.8000 |
| 1062 | 21.5651 | 3.0045 | -.4898 | .1137 | 2.3413 | 1.1594 | .3173 | 2.9882 | -.4774 | .1187 | 1.8000 |
| 1063 | .0468 | .4399 | -1.3771 | -.1484 | .4384 | .3588 | .0511 | .4398 | -1.4020 | -.1475 | 1.8000 |
| 1064 | .0157 | .1706 | .0395 | -.0411 | .1706 | -.0060 | -.0411 | .1706 | .0311 | -.0411 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 65

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1067 | .166 | 1935 | .01 | -.00 | 99807 | .1297 | .0580 | -.0459 | -.0010 | -.0003 | .0044 |
| 1068 | .166 | 1925 | -1.85 | -.00 | 99817 | -.0179 | .0659 | -.0735 | -.0009 | -.0003 | .0036 |
| 1069 | .166 | 1915 | .01 | -.00 | 99827 | .1346 | .0591 | -.0471 | -.0011 | -.0001 | .0069 |
| 1070 | .168 | 1962 | 1.91 | -.00 | 99780 | .2741 | .0502 | -.0205 | -.0020 | -.0005 | .0051 |
| 1071 | .167 | 1945 | 3.87 | -.00 | 99797 | .4043 | .0406 | .0133 | -.0010 | -.0004 | .0055 |
| 1072 | .166 | 1929 | 5.83 | -.00 | 99813 | .5498 | .0239 | .0535 | -.0013 | -.0001 | .0089 |
| 1073 | .166 | 1929 | 7.89 | -.00 | 99810 | .6890 | .0047 | .0883 | -.0022 | -.0006 | .0074 |
| 1074 | .166 | 1932 | 9.95 | -.00 | 99810 | .8184 | -.0180 | .1245 | -.0021 | -.0010 | .0091 |
| 1075 | .165 | 1912 | 12.07 | -.00 | 99823 | .9552 | -.0395 | .1684 | -.0008 | -.0011 | .0084 |
| 1076 | .164 | 1886 | 14.13 | -.00 | 99853 | 1.1008 | -.0491 | .2074 | -.0011 | -.0010 | .0081 |
| 1077 | .165 | 1896 | 16.14 | -.00 | 99843 | 1.2115 | -.0506 | .2531 | -.0011 | -.0012 | .0204 |
| 1078 | .165 | 1909 | 18.14 | -.00 | 99827 | 1.2982 | -.0497 | .3093 | -.0025 | -.0010 | .0121 |
| 1080 | .165 | 1909 | 20.18 | .00 | 99827 | 1.4056 | -.0264 | .3304 | -.0015 | -.0008 | .0023 |
| 1081 | .165 | 1912 | 21.57 | -.00 | 99823 | 1.5277 | -.0282 | .3505 | -.0001 | .0006 | .0105 |
| 1082 | .167 | 1945 | .04 | -.00 | 99790 | .1324 | .0612 | -.0460 | -.0004 | -.0000 | .0054 |

TEST 995 RUN 65

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1067 | .0102 | .0415 | .9777 | 8.8223 | 0.0000 | 0.0000 | 0.0000 | .0202 | .0076 |
| 1068 | -1.8487 | 0.0000 | .9788 | 8.8212 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0077 |
| 1069 | .0127 | 0.0000 | .9782 | 8.8218 | 0.0000 | 0.0000 | 0.0000 | .0199 | .0077 |
| 1070 | 1.9078 | .0434 | .9785 | 8.8215 | 0.0000 | 0.0000 | 0.0000 | .0192 | .0076 |
| 1071 | 3.8710 | 0.0000 | .9785 | 8.8215 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0076 |
| 1072 | 5.8332 | 0.0000 | .9782 | 8.8218 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0076 |
| 1073 | 7.8933 | 0.0000 | .9776 | 8.8224 | 0.0000 | 0.0000 | 0.0000 | .0201 | .0077 |
| 1074 | 9.9530 | 0.0000 | .9772 | 8.8228 | 0.0000 | 0.0000 | 0.0000 | .0204 | .0078 |
| 1075 | 12.0695 | 0.0000 | .9759 | 8.8241 | 0.0000 | 0.0000 | 0.0000 | .0216 | .0083 |
| 1076 | 14.1322 | 0.0000 | .9749 | 8.8251 | 0.0000 | 0.0000 | 0.0000 | .0227 | .0086 |
| 1077 | 16.1414 | 0.0000 | .9753 | 8.8247 | 0.0000 | 0.0000 | 0.0000 | .0219 | .0083 |
| 1078 | 18.1357 | 0.0000 | .9729 | 8.8271 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0075 |
| 1080 | 20.1759 | 0.0000 | .9696 | 8.8304 | 0.0000 | 0.0000 | 0.0000 | .0262 | .0084 |
| 1081 | 21.5726 | 0.0000 | .9681 | 8.8319 | 0.0000 | 0.0000 | 0.0000 | .0272 | .0088 |
| 1082 | .0382 | 0.0000 | .9797 | 8.8203 | 0.0000 | 0.0000 | 0.0000 | .0182 | .0077 |

TEST 995 RUN 65

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1067 | .0102 | .1297 | .0580 | -.0459 | .1297 | .0301 | -.0459 | .1297 | .0504 | -.0459 | 1.0000 |
| 1068 | -1.8487 | -.0158 | .0664 | -.0735 | -.0158 | .0395 | -.0735 | -.0158 | .0587 | -.0735 | 1.0000 |
| 1069 | .0127 | .1346 | .0592 | -.0471 | .1346 | .0316 | -.0471 | .1346 | .0515 | -.0471 | 1.0000 |
| 1070 | 1.9078 | .2722 | .0593 | -.0205 | .2722 | .0325 | -.0205 | .2722 | .0517 | -.0205 | 1.0000 |
| 1071 | 3.8710 | .4006 | .0678 | .0133 | .4006 | .0409 | .0133 | .4006 | .0602 | .0133 | 1.0000 |
| 1072 | 5.8332 | .5437 | .0796 | .0535 | .5437 | .0523 | .0535 | .5437 | .0720 | .0535 | 1.0000 |
| 1073 | 7.8933 | .6819 | .0992 | .0883 | .6819 | .0714 | .0883 | .6819 | .0915 | .0883 | 1.0000 |
| 1074 | 9.9530 | .8092 | .1237 | .1245 | .8092 | .0955 | .1245 | .8092 | .1159 | .1245 | 1.0000 |
| 1075 | 12.0695 | .9423 | .1611 | .1684 | .9423 | .1312 | .1684 | .9423 | .1528 | .1684 | 1.0000 |
| 1076 | 14.1322 | 1.0794 | .2212 | .2074 | 1.0794 | .1899 | .2074 | 1.0794 | .2126 | .2074 | 1.0000 |
| 1077 | 16.1414 | 1.1778 | .2882 | .2531 | 1.1778 | .2580 | .2531 | 1.1778 | .2799 | .2531 | 1.0000 |
| 1078 | 18.1357 | 1.2492 | .3569 | .3093 | 1.2492 | .3257 | .3093 | 1.2492 | .3494 | .3093 | 1.0000 |
| 1080 | 20.1759 | 1.3285 | .4681 | .3304 | 1.3285 | .4255 | .3304 | 1.3285 | .4517 | .3304 | 1.0000 |
| 1081 | 21.5726 | 1.4311 | .5355 | .3505 | 1.4311 | .4995 | .3505 | 1.4311 | .5266 | .3505 | 1.0000 |
| 1082 | .0382 | .1324 | .0613 | -.0460 | .1324 | .0354 | -.0460 | .1324 | .0536 | -.0460 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 66

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1083 | .166 | 1919 | .02 | .00 | 99810 | .1355 | .0600 | -.0466 | -.0008 | -.0004 | .0008 |
| 1084 | .166 | 1919 | .05 | -.00 | 99810 | .3998 | -1.4180 | -.1585 | -.0014 | -.0004 | .0151 |
| 1085 | .167 | 1939 | -1.83 | -.00 | 99790 | .2162 | -1.3978 | -.1771 | -.0016 | .0001 | .0178 |
| 1086 | .166 | 1925 | .05 | -.00 | 99803 | .4009 | -1.4180 | -.1593 | -.0014 | -.0001 | .0163 |
| 1087 | .165 | 1906 | 1.97 | -.00 | 99823 | .5794 | -1.4438 | -.1343 | -.0012 | -.0006 | .0180 |
| 1088 | .165 | 1909 | 3.92 | -.00 | 99820 | .7283 | -1.4529 | -.1085 | -.0006 | -.0006 | .0183 |
| 1089 | .164 | 1876 | 5.91 | -.00 | 99853 | .8894 | -1.4936 | -.0747 | -.0000 | -.0004 | .0180 |
| 1090 | .163 | 1866 | 7.96 | -.00 | 99863 | 1.0434 | -1.5208 | -.0434 | .0005 | -.0004 | .0198 |
| 1091 | .164 | 1889 | 10.01 | -.00 | 99840 | 1.1976 | -1.5212 | -.0089 | .0005 | -.0008 | .0177 |
| 1092 | .163 | 1866 | 12.11 | -.00 | 99863 | 1.3892 | -1.5632 | .0197 | .0018 | -.0017 | .0177 |
| 1093 | .166 | 1919 | 14.22 | -.00 | 99810 | 1.5927 | -1.5452 | .0458 | .0035 | -.0010 | .0151 |
| 1094 | .165 | 1909 | 16.19 | -.00 | 99820 | 1.7844 | -1.5759 | .0732 | .0027 | -.0007 | .0160 |
| 1095 | .167 | 1939 | 19.23 | -.00 | 99790 | 2.0786 | -1.5972 | .1274 | .0015 | .0024 | -.0050 |
| 1096 | .167 | 1942 | 21.21 | -.00 | 99797 | 2.2743 | -1.6229 | .1573 | .0016 | .0024 | .0181 |
| 1097 | .167 | 1939 | 21.80 | -.00 | 99790 | 2.3443 | -1.6369 | .1664 | .0025 | .0023 | .0133 |
| 1098 | .167 | 1955 | .04 | -.00 | 99766 | .3971 | -1.4077 | -.1585 | -.0012 | -.0001 | .0139 |
| 1099 | .166 | 1929 | .01 | -.00 | 99793 | .1312 | .0485 | -.0487 | -.0009 | -.0002 | .0022 |

TEST 995 RUN 66

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1083 | .0221 | 0.0000 | .9800 | 8.8280 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0077 |
| 1084 | .0549 | 29.6882 | 2.9398 | 6.8602 | 1.8548 | 1.3658 | .5311 | -1.7705 | .0329 |
| 1085 | -1.8286 | 29.6646 | 2.9422 | 6.8578 | 1.8386 | 1.3542 | .5262 | -1.7533 | .0322 |
| 1086 | .0481 | 29.6843 | 2.9419 | 6.8581 | 1.8531 | 1.3646 | .5306 | -1.7662 | .0328 |
| 1087 | 1.9733 | 29.6637 | 2.9471 | 6.8529 | 1.8737 | 1.3798 | .5365 | -1.7886 | .0333 |
| 1088 | 3.9192 | 29.7043 | 2.9477 | 6.8523 | 1.8742 | 1.3802 | .5365 | -1.7829 | .0335 |
| 1089 | 5.9131 | 29.6965 | 2.9484 | 6.8516 | 1.9087 | 1.4058 | .5462 | -1.8101 | .0341 |
| 1090 | 7.9579 | 29.7034 | 2.9471 | 6.8529 | 1.9185 | 1.4128 | .5493 | -1.8109 | .0341 |
| 1091 | 10.0122 | 29.7112 | 2.9503 | 6.8497 | 1.8977 | 1.3977 | .5431 | -1.7810 | .0336 |
| 1092 | 12.1096 | 29.7267 | 2.9548 | 6.8452 | 1.9235 | 1.4167 | .5506 | -1.7948 | .0333 |
| 1093 | 14.2220 | 29.7407 | 2.9542 | 6.8458 | 1.8713 | 1.3781 | .5357 | -1.7290 | .0314 |
| 1094 | 16.1934 | 29.7652 | 2.9581 | 6.8419 | 1.8847 | 1.3880 | .5395 | -1.7254 | .0308 |
| 1095 | 19.2271 | 29.7685 | 2.9545 | 6.8455 | 1.8550 | 1.3663 | .5309 | -1.6668 | .0297 |
| 1096 | 21.2087 | 29.7663 | 2.9558 | 6.8442 | 1.8619 | 1.3639 | .5301 | -1.6442 | .0285 |
| 1097 | 21.7971 | 29.8142 | 2.9555 | 6.8445 | 1.8584 | 1.3688 | .5319 | -1.6400 | .0282 |
| 1098 | .0436 | 29.8031 | 2.9611 | 6.8389 | 1.8440 | 1.3581 | .5279 | -1.7559 | .0327 |
| 1099 | .0102 | 0.0000 | .9683 | 8.8317 | 0.0000 | 0.0000 | 0.0000 | .0288 | .0077 |

TEST 995 RUN 66

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1083 | .0221 | .1355 | .0601 | -.0466 | .1355 | .0341 | -.0466 | .1355 | .0524 | -.0466 | 1.8000 |
| 1084 | .0549 | .4004 | -1.4176 | -.1585 | .3986 | .4043 | .0507 | .4003 | -1.3557 | -.1478 | 1.8000 |
| 1085 | -1.8286 | .1715 | -1.4040 | -.1771 | .2302 | .4015 | .0303 | .1740 | -1.3576 | -.1682 | 1.8000 |
| 1086 | .0481 | .4021 | -1.4176 | -.1593 | .4005 | .4027 | .0498 | .4020 | -1.3573 | -.1488 | 1.8000 |
| 1087 | 1.9733 | .6287 | -1.4230 | -.1343 | .5642 | .4164 | .0771 | .6248 | -1.3426 | -.1215 | 1.8000 |
| 1088 | 3.9192 | .8259 | -1.3997 | -.1085 | .6978 | .4367 | .1029 | .8181 | -1.3192 | -.0956 | 1.8000 |
| 1089 | 5.9131 | 1.0385 | -1.3940 | -.0747 | .8419 | .4704 | .1406 | 1.0232 | -1.2802 | -.0579 | 1.8000 |
| 1090 | 7.9579 | 1.2439 | -1.3617 | -.0434 | .9783 | .5042 | .1730 | 1.2219 | -1.2388 | -.0255 | 1.8000 |
| 1091 | 10.0122 | 1.4439 | -1.2898 | -.0089 | 1.1139 | .5454 | .2052 | 1.4199 | -1.1678 | .0067 | 1.8000 |
| 1092 | 12.1096 | 1.6863 | -1.2370 | .0197 | 1.2827 | .6184 | .2367 | 1.6520 | -1.1104 | .0381 | 1.8000 |
| 1093 | 14.2220 | 1.9235 | -1.1065 | .0458 | 1.4637 | .6761 | .2569 | 1.8961 | -1.0300 | .0584 | 1.8000 |
| 1094 | 16.1934 | 2.1531 | -1.0157 | .0732 | 1.6275 | .7633 | .2858 | 2.1183 | -.9269 | .0873 | 1.8000 |
| 1095 | 19.2271 | 2.4886 | -.8236 | .1274 | 1.8777 | .8983 | .3367 | 2.4573 | -.7636 | .1381 | 1.8000 |
| 1096 | 21.2087 | 2.7074 | -.6903 | .1573 | 2.0374 | 1.0077 | .3663 | 2.6741 | -.6331 | .1677 | 1.8000 |
| 1097 | 21.7971 | 2.7845 | -.6494 | .1664 | 2.0944 | 1.0480 | .3760 | 2.7480 | -.5862 | .1775 | 1.8000 |
| 1098 | .0436 | .3981 | -1.4074 | -.1585 | .3967 | .4039 | .0495 | .3981 | -1.3561 | -.1490 | 1.8000 |
| 1099 | .0102 | .1311 | .0486 | -.0487 | .1311 | .0121 | -.0487 | .1311 | .0488 | -.0487 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 67

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1102 | .167 | 1935 | .00 | .00 | 99712 | .0571 | .0782 | -.0397 | -.0007 | .0015 | -.0204 |
| 1103 | .166 | 1919 | -1.83 | .00 | 99729 | -.0783 | .0696 | -.0701 | -.0011 | .0016 | -.0191 |
| 1104 | .167 | 1935 | .03 | .00 | 99708 | .0594 | .0793 | -.0401 | -.0009 | .0017 | -.0203 |
| 1105 | .167 | 1939 | 1.94 | .00 | 99702 | .2002 | .0681 | -.0133 | -.0015 | .0014 | -.0196 |
| 1106 | .166 | 1925 | 3.89 | .00 | 99715 | .3467 | .0551 | .0107 | -.0028 | .0012 | -.0154 |
| 1107 | .168 | 1958 | 5.86 | .00 | 99678 | .5002 | .0350 | .0413 | -.0024 | .0014 | -.0157 |
| 1108 | .167 | 1935 | 7.89 | .00 | 99698 | .6578 | .0073 | .0777 | -.0029 | .0013 | -.0161 |
| 1109 | .166 | 1919 | 9.99 | .00 | 99715 | .7906 | -.0178 | .1086 | -.0021 | .0012 | -.0171 |
| 1110 | .166 | 1919 | 12.11 | .00 | 99712 | .9258 | -.0451 | .1508 | -.0034 | .0009 | -.0136 |
| 1111 | .165 | 1892 | 14.18 | .00 | 99738 | 1.0507 | -.0724 | .1995 | -.0036 | .0008 | -.0199 |
| 1112 | .165 | 1899 | 16.15 | .00 | 99732 | 1.1764 | -.0980 | .2423 | -.0056 | .0011 | -.0136 |
| 1113 | .165 | 1896 | 18.15 | .00 | 99735 | 1.2842 | -.1311 | .2928 | -.0020 | .0008 | -.0133 |
| 1114 | .165 | 1899 | 20.17 | .00 | 99732 | 1.4053 | -.1287 | .3397 | -.0017 | .0012 | -.0128 |
| 1115 | .166 | 1925 | 21.64 | .00 | 99702 | 1.4758 | -.1113 | .3836 | -.0024 | .0013 | -.0118 |
| 1116 | .166 | 1922 | .02 | .00 | 99705 | .0599 | .0825 | -.0395 | -.0007 | .0013 | -.0183 |

TEST 995 RUN 67

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1102 | .0031 | 0.0000 | .9774 | 0.8226 | 0.0000 | 0.0000 | 0.0000 | .0204 | .0078 |
| 1103 | -1.8343 | 0.0000 | .9790 | 0.8210 | 0.0000 | 0.0000 | 0.0000 | .0191 | .0079 |
| 1104 | .0310 | 0.0000 | .9787 | 0.8213 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0079 |
| 1105 | 1.9411 | 0.0000 | .9783 | 0.8217 | 0.0000 | 0.0000 | 0.0000 | .0196 | .0077 |
| 1106 | 3.8897 | 0.0000 | .9773 | 0.8227 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0078 |
| 1107 | 5.8561 | 0.0000 | .9782 | 0.8218 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0080 |
| 1108 | 7.8867 | 0.0000 | .9784 | 0.8216 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0080 |
| 1109 | 9.9980 | 0.0000 | .9765 | 0.8235 | 0.0000 | 0.0000 | 0.0000 | .0211 | .0081 |
| 1110 | 12.1100 | 0.0000 | .9754 | 0.8246 | 0.0000 | 0.0000 | 0.0000 | .0219 | .0085 |
| 1111 | 14.1796 | 0.0000 | .9749 | 0.8251 | 0.0000 | 0.0000 | 0.0000 | .0225 | .0089 |
| 1112 | 16.1474 | 0.0000 | .9741 | 0.8259 | 0.0000 | 0.0000 | 0.0000 | .0229 | .0086 |
| 1113 | 18.1531 | 0.0000 | .9739 | 0.8261 | 0.0000 | 0.0000 | 0.0000 | .0229 | .0084 |
| 1114 | 20.1691 | 0.0000 | .9733 | 0.8267 | 0.0000 | 0.0000 | 0.0000 | .0231 | .0081 |
| 1115 | 21.6415 | 0.0000 | .9702 | 0.8298 | 0.0000 | 0.0000 | 0.0000 | .0252 | .0072 |
| 1116 | .0241 | 0.0000 | .9795 | 0.8205 | 0.0000 | 0.0000 | 0.0000 | .0187 | .0078 |

TEST 995 RUN 67

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1102 | .0031 | .0571 | .0782 | -.0397 | .0571 | .0500 | -.0397 | .0571 | .0704 | -.0397 | 1.0000 |
| 1103 | -1.8343 | -.0754 | .0921 | -.0701 | -.0754 | .0651 | -.0701 | -.0754 | .0842 | -.0701 | 1.0000 |
| 1104 | .0310 | .0593 | .0793 | -.0401 | .0593 | .0522 | -.0401 | .0593 | .0714 | -.0401 | 1.0000 |
| 1105 | 1.9411 | .1977 | .0748 | -.0133 | .1977 | .0475 | -.0133 | .1977 | .0671 | -.0133 | 1.0000 |
| 1106 | 3.8897 | .3422 | .0785 | .0107 | .3422 | .0501 | .0107 | .3422 | .0707 | .0107 | 1.0000 |
| 1107 | 5.8561 | .4948 | .0858 | .0413 | .4940 | .0585 | .0413 | .4940 | .0779 | .0413 | 1.0000 |
| 1108 | 7.8867 | .6506 | .0975 | .0777 | .6506 | .0702 | .0777 | .6506 | .0895 | .0777 | 1.0000 |
| 1109 | 9.9980 | .7817 | .1196 | .1086 | .7817 | .0903 | .1086 | .7817 | .1115 | .1086 | 1.0000 |
| 1110 | 12.1100 | .9146 | .1502 | .1508 | .9146 | .1197 | .1508 | .9146 | .1416 | .1508 | 1.0000 |
| 1111 | 14.1796 | 1.0364 | .1872 | .1995 | 1.0364 | .1559 | .1995 | 1.0364 | .1783 | .1995 | 1.0000 |
| 1112 | 16.1474 | 1.1573 | .2330 | .2423 | 1.1573 | .2016 | .2423 | 1.1573 | .2244 | .2423 | 1.0000 |
| 1113 | 18.1531 | 1.2612 | .2756 | .2928 | 1.2612 | .2443 | .2928 | 1.2612 | .2672 | .2928 | 1.0000 |
| 1114 | 20.1691 | 1.3635 | .3637 | .3397 | 1.3635 | .3325 | .3397 | 1.3635 | .3556 | .3397 | 1.0000 |
| 1115 | 21.6415 | 1.4128 | .4408 | .3836 | 1.4128 | .4085 | .3836 | 1.4128 | .4337 | .3836 | 1.0000 |
| 1116 | .0241 | .0598 | .0825 | -.0395 | .0598 | .0561 | -.0395 | .0598 | .0748 | -.0395 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 68

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1118 | .166 | 1915 | .01 | .00 | 99705 | .0601 | .0606 | -.0393 | -.0008 | .0014 | -.0218 |
| 1120 | .167 | 1945 | .04 | .00 | 99665 | .3134 | -1.3627 | -.1458 | -.0020 | .0001 | -.0030 |
| 1121 | .167 | 1955 | -1.85 | .00 | 99654 | .1196 | -1.3491 | -.1653 | -.0016 | .0004 | -.0027 |
| 1122 | .165 | 1906 | .04 | .00 | 99705 | .3236 | -1.3980 | -.1467 | -.0009 | .0004 | -.0056 |
| 1123 | .165 | 1909 | 1.96 | .00 | 99698 | .4954 | -1.4083 | -.1268 | -.0017 | .0003 | -.0049 |
| 1124 | .165 | 1909 | 3.93 | .00 | 99698 | .6714 | -1.4187 | -.1032 | -.0010 | .0003 | -.0035 |
| 1125 | .165 | 1906 | 5.93 | .00 | 99698 | .8466 | -1.4490 | -.0793 | -.0018 | -.0003 | -.0040 |
| 1126 | .167 | 1935 | 7.93 | .00 | 99671 | .9978 | -1.4441 | -.0458 | -.0010 | -.0002 | -.0047 |
| 1127 | .166 | 1912 | 10.01 | .00 | 99695 | 1.1559 | -1.4883 | -.0149 | -.0018 | .0000 | -.0060 |
| 1128 | .164 | 1873 | 12.10 | .00 | 99735 | 1.3198 | -1.5436 | .0157 | -.0004 | -.0000 | -.0060 |
| 1129 | .167 | 1935 | 14.23 | .00 | 99675 | 1.4810 | -1.5250 | .0505 | -.0007 | .0000 | -.0073 |
| 1130 | .166 | 1912 | 16.19 | .00 | 99698 | 1.6575 | -1.5738 | .0830 | -.0010 | -.0003 | -.0022 |
| 1131 | .167 | 1944 | 18.21 | .00 | 99661 | 1.8373 | -1.5751 | .1195 | -.0010 | -.0005 | -.0018 |
| 1132 | .167 | 1935 | 20.24 | .00 | 99678 | 2.0376 | -1.6164 | .1460 | .0001 | .0004 | -.0040 |
| 1133 | .167 | 1948 | 21.70 | .00 | 99665 | 2.1938 | -1.6360 | .1706 | .0017 | .0006 | -.0065 |
| 1134 | .167 | 1935 | .04 | .00 | 99675 | .3149 | -1.3830 | -.1480 | -.0018 | .0003 | -.0064 |
| 1135 | .166 | 1925 | .02 | .00 | 99685 | .0596 | .0656 | -.0414 | .0018 | .0016 | -.0202 |

TEST 995 RUN 68

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1118 | .0126 | 0.0000 | .9798 | 8.8204 | 0.0000 | 0.0000 | 0.0000 | .0186 | .0078 |
| 1120 | .0404 | 29.3407 | 2.9308 | 6.8692 | 1.8134 | 1.3359 | .5187 | -1.7358 | .0323 |
| 1121 | -1.8546 | 29.3390 | 2.9345 | 6.8655 | 1.8056 | 1.3299 | .5167 | -1.7293 | .0318 |
| 1122 | .0385 | 29.3497 | 2.9365 | 6.8635 | 1.8549 | 1.3663 | .5307 | -1.7779 | .0329 |
| 1123 | 1.9567 | 29.3483 | 2.9374 | 6.8626 | 1.8524 | 1.3646 | .5299 | -1.7744 | .0332 |
| 1124 | 3.9270 | 29.3637 | 2.9378 | 6.8622 | 1.8535 | 1.3653 | .5303 | -1.7716 | .0334 |
| 1125 | 5.9284 | 29.3805 | 2.9442 | 6.8558 | 1.8685 | 1.3706 | .5321 | -1.7753 | .0334 |
| 1126 | 7.9329 | 29.3833 | 2.9417 | 6.8583 | 1.8305 | 1.3483 | .5238 | -1.7379 | .0331 |
| 1127 | 10.0098 | 29.3895 | 2.9420 | 6.8580 | 1.8538 | 1.3657 | .5303 | -1.7496 | .0333 |
| 1128 | 12.1035 | 29.4009 | 2.9406 | 6.8594 | 1.8936 | 1.3950 | .5416 | -1.7732 | .0334 |
| 1129 | 14.2268 | 29.3969 | 2.9423 | 6.8577 | 1.8322 | 1.3497 | .5242 | -1.7014 | .0318 |
| 1130 | 16.1881 | 29.4398 | 2.9438 | 6.8562 | 1.8580 | 1.3689 | .5314 | -1.7077 | .0317 |
| 1131 | 18.2074 | 29.4385 | 2.9424 | 6.8576 | 1.8225 | 1.3426 | .5213 | -1.6559 | .0306 |
| 1132 | 20.2436 | 29.5098 | 2.9544 | 6.8456 | 1.8422 | 1.3570 | .5270 | -1.6572 | .0304 |
| 1133 | 21.7026 | 29.4434 | 2.9445 | 6.8555 | 1.8238 | 1.3437 | .5216 | -1.6215 | .0293 |
| 1134 | .0427 | 29.4687 | 2.9446 | 6.8554 | 1.8373 | 1.3534 | .5257 | -1.7574 | .0327 |
| 1135 | .0195 | 0.0000 | .9709 | 8.8291 | 0.0000 | 0.0000 | 0.0000 | .0265 | .0078 |

TEST 995 RUN 68

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1118 | .0126 | .0601 | .0607 | -.0393 | .0601 | .0942 | -.0393 | .0601 | .0728 | -.0393 | 1.0000 |
| 1120 | .0404 | .3144 | -1.3625 | -.1458 | .3131 | .4186 | .0587 | .3143 | -1.3414 | -.1398 | 1.8000 |
| 1121 | -1.8546 | .0759 | -1.3523 | -.1653 | .1343 | .4206 | .0384 | .0774 | -1.3385 | -.1602 | 1.8000 |
| 1122 | .0385 | .3245 | -1.3978 | -.1467 | .3233 | .4242 | .0625 | .3244 | -1.3358 | -.1360 | 1.8000 |
| 1123 | 1.9567 | .5432 | -1.3906 | -.1268 | .4799 | .4276 | .0822 | .5400 | -1.3314 | -.1163 | 1.8000 |
| 1124 | 3.9270 | .7669 | -1.3694 | -.1032 | .6400 | .4463 | .1059 | .7605 | -1.3096 | -.0927 | 1.8000 |
| 1125 | 5.9284 | .9918 | -1.3538 | -.0793 | .7996 | .4633 | .1306 | .9814 | -1.2873 | -.0680 | 1.8000 |
| 1126 | 7.9329 | 1.1875 | -1.2926 | -.0458 | .9349 | .4873 | .1608 | 1.1778 | -1.2558 | -.0378 | 1.8000 |
| 1127 | 10.0098 | 1.3970 | -1.2647 | -.0149 | 1.0748 | .5276 | .1942 | 1.3807 | -1.2056 | -.0043 | 1.8000 |
| 1128 | 12.1035 | 1.6142 | -1.2325 | .0157 | 1.2171 | .5856 | .2293 | 1.5861 | -1.1353 | .0308 | 1.8000 |
| 1129 | 14.2268 | 1.8103 | -1.1143 | .0505 | 1.3681 | .6299 | .2572 | 1.7926 | -1.0761 | .0586 | 1.8000 |
| 1130 | 16.1881 | 2.0305 | -1.0493 | .0830 | 1.5125 | .7034 | .2927 | 2.0032 | -.9869 | .0941 | 1.8000 |
| 1131 | 18.2074 | 2.2375 | -.9222 | .1195 | 1.6681 | .7784 | .3251 | 2.2180 | -.8935 | .1266 | 1.8000 |
| 1132 | 20.2436 | 2.4711 | -.8115 | .1460 | 1.8337 | .8864 | .3538 | 2.4426 | -.7648 | .1552 | 1.8000 |
| 1133 | 21.7026 | 2.6433 | -.7088 | .1706 | 1.9688 | .9564 | .3763 | 2.6197 | -.6788 | .1778 | 1.8000 |
| 1134 | .0427 | .3159 | -1.3828 | -.1480 | .3146 | .4218 | .0593 | .3159 | -1.3382 | -.1393 | 1.8000 |
| 1135 | .0195 | .0595 | .0657 | -.0414 | .0595 | .0313 | -.0414 | .0595 | .0578 | -.0414 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 69

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1147 | .166 | 1929 | .01 | -.00 | 100301 | .3243 | .0947 | -.1156 | .0002 | .0004 | .0018 |
| 1148 | .165 | 1919 | -1.85 | -.00 | 100311 | .1730 | .1002 | -.1407 | -.0004 | .0002 | .0044 |
| 1149 | .166 | 1925 | .03 | -.00 | 100304 | .3258 | .0954 | -.1138 | -.0001 | .0002 | .0053 |
| 1150 | .165 | 1922 | 1.94 | -.00 | 100308 | .4770 | .0802 | -.0921 | -.0008 | .0005 | -.0027 |
| 1151 | .165 | 1909 | 3.90 | -.00 | 100318 | .6280 | .0593 | -.0676 | -.0002 | .0005 | -.0019 |
| 1152 | .165 | 1902 | 5.90 | -.00 | 100324 | .7756 | .0336 | -.0336 | -.0005 | .0005 | -.0006 |
| 1153 | .165 | 1902 | 7.95 | -.00 | 100321 | .9143 | .0089 | .0019 | -.0004 | .0003 | .0014 |
| 1154 | .166 | 1925 | 9.98 | -.00 | 100298 | 1.0259 | -.0170 | .0453 | -.0019 | .0000 | .0013 |
| 1155 | .165 | 1922 | 12.13 | -.00 | 100301 | 1.1275 | -.0490 | .0963 | -.0025 | -.0007 | .0067 |
| 1156 | .165 | 1919 | 14.17 | -.00 | 100308 | 1.2329 | -.0801 | .1502 | -.0019 | -.0004 | .0108 |
| 1157 | .165 | 1919 | 16.18 | -.00 | 100304 | 1.3379 | -.1078 | .2054 | -.0010 | -.0009 | .0071 |
| 1158 | .165 | 1912 | 18.18 | -.00 | 100314 | 1.4442 | -.1181 | .2527 | .0001 | .0004 | .0080 |
| 1159 | .165 | 1919 | 20.15 | -.00 | 100308 | 1.5394 | -.1006 | .3051 | -.0008 | -.0000 | .0090 |
| 1160 | .164 | 1883 | 21.63 | -.00 | 100344 | 1.5969 | -.0884 | .3393 | -.0014 | -.0001 | .0122 |
| 1161 | .165 | 1919 | .04 | -.00 | 100308 | .3225 | .0954 | -.1159 | -.0003 | -.0000 | .0030 |

TEST 995 RUN 69

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1147 | .0125 | 0.0000 | .9789 | 26.6422 | 0.0000 | 0.0000 | 0.0000 | .0203 | .0081 |
| 1148 | -1.8455 | 0.0000 | .9810 | 26.6380 | 0.0000 | 0.0000 | 0.0000 | .0184 | .0082 |
| 1149 | .0334 | 0.0000 | .9819 | 26.6361 | 0.0000 | 0.0000 | 0.0000 | .0174 | .0081 |
| 1150 | 1.9426 | 0.0000 | .9829 | 26.6343 | 0.0000 | 0.0000 | 0.0000 | .0166 | .0080 |
| 1151 | 3.9840 | 0.0000 | .9831 | 26.6338 | 0.0000 | 0.0000 | 0.0000 | .0164 | .0079 |
| 1152 | 5.9845 | 0.0000 | .9838 | 26.6324 | 0.0000 | 0.0000 | 0.0000 | .0158 | .0078 |
| 1153 | 7.9456 | 0.0000 | .9854 | 26.6292 | 0.0000 | 0.0000 | 0.0000 | .0141 | .0078 |
| 1154 | 9.9843 | 0.0000 | .9854 | 26.6291 | 0.0000 | 0.0000 | 0.0000 | .0139 | .0080 |
| 1155 | 12.1295 | 0.0000 | .9858 | 26.6283 | 0.0000 | 0.0000 | 0.0000 | .0134 | .0080 |
| 1156 | 14.1662 | 0.0000 | .9852 | 26.6296 | 0.0000 | 0.0000 | 0.0000 | .0139 | .0077 |
| 1157 | 16.1763 | 0.0000 | .9851 | 26.6299 | 0.0000 | 0.0000 | 0.0000 | .0139 | .0073 |
| 1158 | 18.1755 | 0.0000 | .9852 | 26.6296 | 0.0000 | 0.0000 | 0.0000 | .0137 | .0072 |
| 1159 | 20.1495 | 0.0000 | .9828 | 26.6345 | 0.0000 | 0.0000 | 0.0000 | .0157 | .0064 |
| 1160 | 21.6279 | 0.0000 | .9836 | 26.6329 | 0.0000 | 0.0000 | 0.0000 | .0151 | .0069 |
| 1161 | .0447 | 0.0000 | .9900 | 26.6199 | 0.0000 | 0.0000 | 0.0000 | .0096 | .0083 |

TEST 995 RUN 69

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1147 | .0125 | .3243 | .0948 | -.1156 | .3243 | .0663 | -.1156 | .3243 | .0866 | -.1156 | 1.0000 |
| 1148 | -1.8455 | .1761 | .0946 | -.1407 | .1761 | .0688 | -.1407 | .1761 | .0864 | -.1407 | 1.0000 |
| 1149 | .0334 | .3249 | .0956 | -.1138 | .3249 | .0708 | -.1138 | .3249 | .0874 | -.1138 | 1.0000 |
| 1150 | 1.9426 | .4740 | .0963 | -.0921 | .4740 | .0718 | -.0921 | .4740 | .0883 | -.0921 | 1.0000 |
| 1151 | 3.9840 | .6225 | .1020 | -.0676 | .6225 | .0776 | -.0676 | .6225 | .0941 | -.0676 | 1.0000 |
| 1152 | 5.9845 | .7680 | .1132 | -.0336 | .7680 | .0897 | -.0336 | .7680 | .1054 | -.0336 | 1.0000 |
| 1153 | 7.9456 | .9043 | .1352 | .0019 | .9043 | .1133 | .0019 | .9043 | .1274 | .0019 | 1.0000 |
| 1154 | 9.9843 | 1.0133 | .1611 | .0453 | 1.0133 | .1392 | .0453 | 1.0133 | .1530 | .0453 | 1.0000 |
| 1155 | 12.1295 | 1.1126 | .1890 | .0963 | 1.1126 | .1676 | .0963 | 1.1126 | .1810 | .0963 | 1.0000 |
| 1156 | 14.1662 | 1.2150 | .2240 | .1502 | 1.2150 | .2024 | .1502 | 1.2150 | .2163 | .1502 | 1.0000 |
| 1157 | 16.1763 | 1.3158 | .2692 | .2054 | 1.3150 | .2481 | .2054 | 1.3150 | .2620 | .2054 | 1.0000 |
| 1158 | 18.1755 | 1.4089 | .3383 | .2527 | 1.4089 | .3175 | .2527 | 1.4089 | .3311 | .2527 | 1.0000 |
| 1159 | 20.1495 | 1.4799 | .4359 | .3051 | 1.4799 | .4138 | .3051 | 1.4799 | .4295 | .3051 | 1.0000 |
| 1160 | 21.6279 | 1.5170 | .5064 | .3393 | 1.5170 | .4844 | .3393 | 1.5170 | .4995 | .3393 | 1.0000 |
| 1161 | .0447 | .3224 | .0956 | -.1159 | .3224 | .0777 | -.1159 | .3224 | .0873 | -.1159 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 70

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1162 | .165 | 1922 | .02 | -.00 | 100291 | .3302 | .0899 | -.1158 | .0000 | .0006 | -.0027 |
| 1163 | .165 | 1919 | .02 | -.00 | 100294 | .3143 | .0876 | -.1144 | .0002 | .0003 | .0030 |
| 1164 | .165 | 1922 | .06 | -.00 | 100294 | 1.0560 | -1.5141 | -.5238 | .0017 | -.0005 | .0115 |
| 1165 | .166 | 1945 | -1.82 | -.00 | 100271 | .8796 | -1.4911 | -.5440 | .0017 | -.0010 | .0113 |
| 1166 | .166 | 1945 | .08 | -.00 | 100271 | 1.0504 | -1.4974 | -.5186 | .0010 | -.0007 | .0126 |
| 1167 | .167 | 1958 | 2.00 | -.00 | 100261 | 1.2202 | -1.5034 | -.4945 | .0013 | -.0005 | .0100 |
| 1168 | .166 | 1942 | 3.96 | -.00 | 100281 | 1.3916 | -1.5410 | -.4804 | -.0005 | -.0021 | .0112 |
| 1169 | .165 | 1912 | 5.94 | -.00 | 100311 | 1.5609 | -1.5873 | -.4592 | .0019 | -.0009 | .0062 |
| 1170 | .165 | 1916 | 7.99 | -.00 | 100311 | 1.7083 | -1.6095 | -.4260 | .0024 | -.0004 | .0058 |
| 1171 | .167 | 1949 | 10.05 | -.00 | 100278 | 1.8477 | -1.6100 | -.3843 | .0014 | -.0006 | .0076 |
| 1172 | .166 | 1925 | 12.14 | -.00 | 100304 | 2.0035 | -1.6601 | -.3543 | .0006 | -.0007 | .0084 |
| 1173 | .166 | 1942 | 14.23 | -.00 | 100288 | 2.1517 | -1.6803 | -.3129 | -.0004 | -.0010 | .0103 |
| 1174 | .167 | 1952 | 16.22 | -.00 | 100281 | 2.2871 | -1.6998 | -.2648 | .0000 | -.0002 | .0102 |
| 1175 | .166 | 1942 | 18.22 | -.00 | 100291 | 2.4453 | -1.7213 | -.2230 | .0033 | -.0000 | .0148 |
| 1176 | .167 | 1952 | 20.21 | -.00 | 100281 | 2.6090 | -1.7167 | -.1849 | .0039 | .0009 | .0109 |
| 1177 | .167 | 1958 | 21.71 | -.00 | 100278 | 2.7671 | -1.7269 | -.1623 | .0052 | .0015 | .0133 |
| 1178 | .167 | 1962 | .07 | -.00 | 100271 | 1.0368 | -1.4784 | -.5188 | .0022 | -.0007 | .0063 |
| 1179 | .166 | 1935 | .02 | -.00 | 100301 | .3241 | .0753 | -.1188 | -.0000 | .0006 | .0054 |

TEST 995 RUN 70

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1162 | .0175 | .9890 | .9910 | 26.6181 | 0.0000 | 0.0000 | 0.0000 | .0087 | .0081 |
| 1163 | .0188 | 0.0000 | .9909 | 26.6183 | 0.0000 | 0.0000 | 0.0000 | .0089 | .0079 |
| 1164 | .0563 | 29.1862 | 2.9771 | 22.6458 | 1.8183 | 1.5918 | .2597 | -1.9121 | .0184 |
| 1165 | -1.8236 | 29.1779 | 2.9770 | 22.6461 | 1.7986 | 1.5745 | .2568 | -1.8879 | .0180 |
| 1166 | .0822 | 29.1575 | 2.9815 | 22.6370 | 1.7931 | 1.5768 | .2571 | -1.8932 | .0184 |
| 1167 | 2.0032 | 29.1178 | 2.9759 | 22.6481 | 1.7795 | 1.5648 | .2552 | -1.8738 | .0184 |
| 1168 | 3.9577 | 29.1085 | 2.9768 | 22.6464 | 1.7964 | 1.5796 | .2576 | -1.8876 | .0190 |
| 1169 | 5.9406 | 29.0478 | 2.9784 | 22.6432 | 1.8232 | 1.6032 | .2615 | -1.9133 | .0195 |
| 1170 | 7.9850 | 29.0341 | 2.9783 | 22.6435 | 1.8219 | 1.6020 | .2613 | -1.9016 | .0199 |
| 1171 | 10.0463 | 28.9860 | 2.9749 | 22.6581 | 1.7900 | 1.5740 | .2567 | -1.8550 | .0201 |
| 1172 | 12.1361 | 28.9602 | 2.9767 | 22.6467 | 1.8127 | 1.5940 | .2599 | -1.8660 | .0205 |
| 1173 | 14.2304 | 28.9468 | 2.9806 | 22.6388 | 1.7987 | 1.5817 | .2579 | -1.8377 | .0208 |
| 1174 | 16.2189 | 28.9078 | 2.9753 | 22.6495 | 1.7868 | 1.5711 | .2563 | -1.8062 | .0215 |
| 1175 | 18.2229 | 28.9041 | 2.9743 | 22.6514 | 1.7972 | 1.5804 | .2576 | -1.7951 | .0225 |
| 1176 | 20.2126 | 28.8763 | 2.9716 | 22.6569 | 1.7861 | 1.5705 | .2562 | -1.7619 | .0234 |
| 1177 | 21.7127 | 28.8689 | 2.9710 | 22.6579 | 1.7815 | 1.5665 | .2555 | -1.7379 | .0236 |
| 1178 | .0722 | 28.8420 | 2.9678 | 22.6644 | 1.7777 | 1.5632 | .2549 | -1.8643 | .0185 |
| 1179 | .0171 | 0.0000 | .9710 | 26.6581 | 0.0000 | 0.0000 | 0.0000 | .0279 | .0082 |

TEST 995 RUN 70

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1162 | .0175 | .3302 | .0900 | -.1158 | .3302 | .0732 | -.1158 | .3302 | .0819 | -.1158 | 1.0000 |
| 1163 | .0188 | .3143 | .0877 | -.1144 | .3143 | .0709 | -.1144 | .3143 | .0797 | -.1144 | 1.0000 |
| 1164 | .0563 | 1.0575 | -1.5130 | -.5238 | 1.0557 | .2789 | -.3195 | 1.0574 | -1.4811 | -.5181 | 1.8000 |
| 1165 | -1.8236 | .8317 | -1.5184 | -.5440 | .8887 | .2533 | -.3420 | .8327 | -1.5058 | -.5406 | 1.8000 |
| 1166 | .0822 | 1.0526 | -1.4959 | -.5186 | 1.0500 | .2788 | -.3163 | 1.0525 | -1.4812 | -.5149 | 1.8000 |
| 1167 | 2.0032 | 1.2720 | -1.4599 | -.4945 | 1.2098 | .3002 | -.2937 | 1.2713 | -1.4568 | -.4923 | 1.8000 |
| 1168 | 3.9577 | 1.4947 | -1.4412 | -.4804 | 1.3707 | .3319 | -.2777 | 1.4922 | -1.4239 | -.4763 | 1.8000 |
| 1169 | 5.9406 | 1.7168 | -1.4172 | -.4592 | 1.5281 | .3768 | -.2535 | 1.7103 | -1.3738 | -.4521 | 1.8000 |
| 1170 | 7.9850 | 1.9153 | -1.3566 | -.4260 | 1.6623 | .4277 | -.2204 | 1.9067 | -1.3152 | -.4190 | 1.8000 |
| 1171 | 10.0463 | 2.1082 | -1.2638 | -.3843 | 1.7880 | .4795 | -.1824 | 2.0950 | -1.2535 | -.3809 | 1.8000 |
| 1172 | 12.1361 | 2.3077 | -1.2018 | -.3543 | 1.9266 | .5498 | -.1498 | 2.2966 | -1.1709 | -.3483 | 1.8000 |
| 1173 | 14.2304 | 2.4988 | -1.0998 | -.3129 | 2.0566 | .6230 | -.1100 | 2.4893 | -1.0830 | -.3066 | 1.8000 |
| 1174 | 16.2189 | 2.6709 | -.9933 | -.2648 | 2.1718 | .7089 | -.0632 | 2.6634 | -.9891 | -.2618 | 1.8000 |
| 1175 | 18.2229 | 2.8610 | -.8702 | -.2230 | 2.2989 | .8143 | -.0202 | 2.8493 | -.8574 | -.2188 | 1.8000 |
| 1176 | 20.2126 | 3.0415 | -.7096 | -.1849 | 2.4244 | .9431 | .0166 | 3.0325 | -.7085 | -.1819 | 1.8000 |
| 1177 | 21.7127 | 3.2096 | -.5807 | -.1623 | 2.5505 | 1.0508 | .0387 | 3.2017 | -.5843 | -.1598 | 1.8000 |
| 1178 | .0722 | 1.0386 | -1.4771 | -.5188 | 1.0364 | .2821 | -.3182 | 1.0386 | -1.4779 | -.5168 | 1.8000 |
| 1179 | .0171 | .3241 | .0754 | -.1188 | .3241 | .0394 | -.1188 | .3241 | .0673 | -.1188 | 1.0000 |

TEST 995 NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL RUN 71

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1182 | .165 | 1922 | .03 | -.00 | 100416 | .4262 | .0742 | -.1169 | -.0003 | .0006 | -.0014 |
| 1183 | .166 | 1925 | -1.84 | -.00 | 100416 | .2980 | .0692 | -.1531 | -.0015 | -.0003 | .0023 |
| 1184 | .166 | 1929 | .06 | -.00 | 100413 | .4208 | .0749 | -.1199 | -.0004 | .0005 | .0008 |
| 1185 | .165 | 1919 | 1.95 | -.00 | 100423 | .5404 | .0652 | -.0817 | -.0006 | .0004 | -.0013 |
| 1186 | .165 | 1916 | 3.92 | -.00 | 100430 | .6879 | .0538 | -.0466 | -.0001 | .0017 | .0140 |
| 1187 | .165 | 1916 | 5.91 | -.00 | 100430 | .8278 | .0404 | -.0083 | .0005 | .0005 | -.0005 |
| 1188 | .166 | 1929 | 7.93 | -.00 | 100420 | .9546 | .0300 | .0301 | -.0005 | .0003 | -.0040 |
| 1189 | .165 | 1922 | 9.98 | -.00 | 100426 | 1.0629 | .0258 | .0759 | -.0012 | -.0001 | .0025 |
| 1190 | .165 | 1919 | 12.07 | -.00 | 100430 | 1.1445 | .0246 | .1250 | -.0012 | -.0000 | -.0004 |
| 1191 | .166 | 1932 | 14.14 | -.00 | 100416 | 1.2309 | .0300 | .1811 | -.0001 | .0006 | .0058 |
| 1192 | .165 | 1916 | 16.11 | -.00 | 100433 | 1.3255 | .0433 | .1929 | -.0012 | .0001 | .0078 |
| 1193 | .165 | 1912 | 18.16 | -.00 | 100436 | 1.4530 | .0465 | .2268 | -.0015 | .0002 | .0108 |
| 1194 | .166 | 1929 | 20.11 | -.00 | 100420 | 1.6089 | .0446 | .2686 | -.0001 | .0002 | .0087 |
| 1195 | .166 | 1932 | 21.59 | -.00 | 100416 | 1.7049 | .0386 | .3035 | .0005 | .0004 | .0091 |
| 1196 | .167 | 1949 | .0. | -.00 | 100413 | .4271 | .0766 | -.1183 | .0004 | .0004 | -.0030 |

TEST 995 RUN 71

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1182 | .0287 | 0.0000 | .9789 | 26.6421 | 0.0000 | 0.0000 | 0.0000 | .0204 | .0082 |
| 1183 | -1.8421 | 0.0000 | .9803 | 26.6393 | 0.0000 | 0.0000 | 0.0000 | .0190 | .0084 |
| 1184 | .0607 | 0.0000 | .9811 | 26.6377 | 0.0000 | 0.0000 | 0.0000 | .0182 | .0083 |
| 1185 | 1.9453 | 0.0000 | .9814 | 26.6372 | 0.0000 | 0.0000 | 0.0000 | .0180 | .0081 |
| 1186 | 3.9241 | 0.0000 | .9813 | 26.6374 | 0.0000 | 0.0000 | 0.0000 | .0181 | .0080 |
| 1187 | 5.9074 | 0.0000 | .9820 | 26.6361 | 0.0000 | 0.0000 | 0.0000 | .0174 | .0079 |
| 1188 | 7.9343 | 0.0000 | .9821 | 26.6358 | 0.0000 | 0.0000 | 0.0000 | .0171 | .0079 |
| 1189 | 9.9807 | 0.0000 | .9817 | 26.6365 | 0.0000 | 0.0000 | 0.0000 | .0174 | .0083 |
| 1190 | 12.0706 | 0.0000 | .9805 | 26.6391 | 0.0000 | 0.0000 | 0.0000 | .0185 | .0082 |
| 1191 | 14.1413 | 0.0000 | .9783 | 26.6435 | 0.0000 | 0.0000 | 0.0000 | .0203 | .0083 |
| 1192 | 16.1066 | 0.0000 | .9747 | 26.6506 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0091 |
| 1193 | 18.1564 | 0.0000 | .9741 | 26.6518 | 0.0000 | 0.0000 | 0.0000 | .0240 | .0095 |
| 1194 | 20.1126 | 0.0000 | .9724 | 26.6553 | 0.0000 | 0.0000 | 0.0000 | .0250 | .0098 |
| 1195 | 21.5875 | 0.0000 | .9715 | 26.6569 | 0.0000 | 0.0000 | 0.0000 | .0255 | .0100 |
| 1196 | .0406 | 0.0000 | .9847 | 26.6305 | 0.0000 | 0.0000 | 0.0000 | .0146 | .0080 |

TEST 995 RUN 71

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1182 | .0287 | .4262 | .0744 | -.1169 | .4262 | .0458 | -.1169 | .4262 | .0662 | -.1169 | 1.0000 |
| 1183 | -1.8421 | .3001 | .0596 | -.1531 | .3001 | .0323 | -.1531 | .3001 | .0512 | -.1531 | 1.0000 |
| 1184 | .0607 | .4207 | .0753 | -.1199 | .4207 | .0489 | -.1199 | .4207 | .0670 | -.1199 | 1.0000 |
| 1185 | 1.9453 | .5378 | .0835 | -.0817 | .5378 | .0573 | -.0817 | .5378 | .0754 | -.0817 | 1.0000 |
| 1186 | 3.9241 | .6826 | .1008 | -.0466 | .6826 | .0746 | -.0466 | .6826 | .0928 | -.0466 | 1.0000 |
| 1187 | 5.9074 | .8193 | .1253 | -.0083 | .8193 | .1001 | -.0083 | .8193 | .1175 | -.0083 | 1.0000 |
| 1188 | 7.9343 | .9414 | .1615 | .0301 | .9414 | .1365 | .0301 | .9414 | .1536 | .0301 | 1.0000 |
| 1189 | 9.9807 | 1.0424 | .2096 | .0759 | 1.0424 | .1840 | .0759 | 1.0424 | .2014 | .0759 | 1.0000 |
| 1190 | 12.0706 | 1.1141 | .2634 | .1250 | 1.1141 | .2366 | .1250 | 1.1141 | .2551 | .1250 | 1.0000 |
| 1191 | 14.1413 | 1.1863 | .3298 | .1811 | 1.1863 | .3012 | .1811 | 1.1863 | .3215 | .1811 | 1.0000 |
| 1192 | 16.1066 | 1.2614 | .4093 | .1929 | 1.2614 | .3766 | .1929 | 1.2614 | .4002 | .1929 | 1.0000 |
| 1193 | 18.1564 | 1.3660 | .4973 | .2268 | 1.3660 | .4638 | .2268 | 1.3660 | .4877 | .2268 | 1.0000 |
| 1194 | 20.1126 | 1.4955 | .5951 | .2686 | 1.4955 | .5602 | .2686 | 1.4955 | .5853 | .2686 | 1.0000 |
| 1195 | 21.5875 | 1.5711 | .6631 | .3035 | 1.5711 | .6276 | .3035 | 1.5711 | .6531 | .3035 | 1.0000 |
| 1196 | .0406 | .4270 | .0769 | -.1183 | .4270 | .0543 | -.1183 | .4270 | .0689 | -.1183 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 72

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1197 | .166 | 1942 | .03 | -.00 | 100420 | .4171 | .0734 | -.1146 | -.0003 | .0004 | -.0014 |
| 1198 | .166 | 1945 | .06 | -.00 | 100430 | .9209 | -.8293 | -.3691 | -.0003 | -.0006 | .0098 |
| 1199 | .166 | 1935 | -1.82 | -.00 | 100430 | .7920 | -.6501 | -.4065 | .0001 | -.0016 | .0083 |
| 1200 | .166 | 1932 | .08 | -.00 | 100433 | .9283 | -.8410 | -.3713 | -.0000 | -.0007 | .0063 |
| 1201 | .166 | 1932 | 2.00 | -.00 | 100433 | 1.0586 | -.8250 | -.3354 | -.0010 | -.0007 | .0099 |
| 1202 | .165 | 1925 | 3.95 | -.00 | 100440 | 1.2047 | -.8436 | -.3075 | -.0006 | -.0013 | .0060 |
| 1203 | .165 | 1909 | 5.94 | -.00 | 100460 | 1.3682 | -.8672 | -.2741 | -.0001 | -.0025 | .0091 |
| 1204 | .165 | 1919 | 7.96 | -.00 | 100457 | 1.5291 | -.8701 | -.2418 | .0019 | -.0012 | .0094 |
| 1205 | .166 | 1942 | 10.03 | -.00 | 100437 | 1.6629 | -.8676 | -.2004 | .0035 | -.0004 | .0082 |
| 1206 | .167 | 1962 | 12.15 | -.00 | 100406 | 1.8356 | -.8677 | -.1592 | .0017 | -.0009 | .0069 |
| 1207 | .166 | 1945 | 14.27 | -.00 | 100423 | 2.0139 | -.8901 | -.1191 | .0017 | -.0010 | .0132 |
| 1208 | .165 | 1922 | 16.22 | -.00 | 100447 | 2.1915 | -.9096 | -.0783 | .0015 | -.0005 | .0147 |
| 1209 | .165 | 1916 | 18.24 | -.00 | 100453 | 2.3512 | -.9248 | -.0307 | .0026 | -.0004 | .0164 |
| 1210 | .164 | 1896 | 20.22 | -.00 | 100473 | 2.4346 | -.9433 | .0412 | .0048 | -.0000 | .0125 |
| 1211 | .165 | 1922 | 21.64 | -.00 | 100447 | 2.4486 | -.9311 | .0972 | .0048 | .0004 | .0146 |
| 1212 | .168 | 1982 | .09 | -.00 | 100386 | .9074 | -.8015 | -.3635 | -.0009 | -.0008 | .0074 |

TEST 995 RUN 72

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1197 | .0308 | .0408 | .9858 | 26.6284 | 0.0000 | 0.0000 | 0.0000 | .0136 | .0079 |
| 1198 | .0590 | 20.5284 | 2.1075 | 24.3850 | 1.0700 | .9406 | .1538 | -1.0598 | .0139 |
| 1199 | -1.8187 | 20.5523 | 2.1181 | 24.3639 | 1.0856 | .9544 | .1559 | -1.0748 | .0140 |
| 1200 | .0846 | 20.4804 | 2.1068 | 24.3864 | 1.0604 | .9498 | .1551 | -1.0664 | .0139 |
| 1201 | 2.0031 | 20.2387 | 2.0787 | 24.4426 | 1.0588 | .9309 | .1520 | -1.0387 | .0138 |
| 1202 | 3.9529 | 20.2740 | 2.0808 | 24.4384 | 1.0642 | .9356 | .1527 | -1.0425 | .0139 |
| 1203 | 5.9402 | 20.2993 | 2.0843 | 24.4314 | 1.0748 | .9448 | .1543 | -1.0520 | .0139 |
| 1204 | 7.9627 | 20.3261 | 2.0880 | 24.4239 | 1.0707 | .9413 | .1537 | -1.0456 | .0142 |
| 1205 | 10.0273 | 20.3674 | 2.0884 | 24.4232 | 1.0602 | .9322 | .1521 | -1.0274 | .0144 |
| 1206 | 12.1501 | 20.3934 | 2.0886 | 24.4224 | 1.0496 | .9228 | .1507 | -1.0098 | .0146 |
| 1207 | 14.2703 | 20.4639 | 2.0912 | 24.4175 | 1.0626 | .9342 | .1526 | -1.0120 | .0152 |
| 1208 | 16.2241 | 20.4083 | 2.0886 | 24.4228 | 1.0724 | .9429 | .1539 | -1.0125 | .0156 |
| 1209 | 18.2385 | 20.4173 | 2.0918 | 24.4164 | 1.0780 | .9478 | .1547 | -1.0079 | .0163 |
| 1210 | 20.2193 | 20.4216 | 2.0920 | 24.4160 | 1.0891 | .9574 | .1564 | -1.0067 | .0179 |
| 1211 | 21.6362 | 20.3865 | 2.0894 | 24.4213 | 1.0721 | .9426 | .1539 | -.9808 | .0197 |
| 1212 | .0869 | 20.4296 | 2.0941 | 24.4118 | 1.0435 | .9174 | .1499 | -1.0274 | .0139 |

TEST 995 RUN 72

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1197 | .0308 | .4170 | .0736 | -.1146 | .4170 | .0521 | -.1146 | .4170 | .0657 | -.1146 | 1.0000 |
| 1198 | .0590 | .9217 | -.8283 | -.3691 | .9206 | .2278 | -.2483 | .9218 | -.9455 | -.3607 | 1.2000 |
| 1199 | -1.8187 | .7646 | -.8748 | -.4065 | .7991 | .1963 | -.2841 | .7618 | -.9764 | -.4164 | 1.2000 |
| 1200 | .0846 | .9295 | -.8397 | -.3713 | .9279 | .2269 | -.2494 | .9296 | -.9465 | -.3818 | 1.2000 |
| 1201 | 2.0031 | 1.0868 | -.7875 | -.3354 | 1.0498 | .2568 | -.2159 | 1.0888 | -.9158 | -.3483 | 1.2000 |
| 1202 | 3.9529 | 1.2599 | -.7585 | -.3075 | 1.1866 | .2893 | -.1874 | 1.2675 | -.8813 | -.3198 | 1.2000 |
| 1203 | 5.9402 | 1.4506 | -.7210 | -.2741 | 1.3394 | .3340 | -.1528 | 1.4608 | -.8331 | -.2852 | 1.2000 |
| 1204 | 7.9627 | 1.6349 | -.6499 | -.2418 | 1.4866 | .3962 | -.1210 | 1.6492 | -.7658 | -.2534 | 1.2000 |
| 1205 | 10.0273 | 1.7886 | -.5648 | -.2004 | 1.6040 | .4648 | -.0808 | 1.8083 | -.6906 | -.2132 | 1.2000 |
| 1206 | 12.1501 | 1.9771 | -.4619 | -.1592 | 1.7562 | .5496 | -.0408 | 2.0032 | -.5975 | -.1732 | 1.2000 |
| 1207 | 14.2703 | 2.1711 | -.3662 | -.1191 | 1.9092 | .6485 | .0008 | 2.1984 | -.4887 | -.1316 | 1.2000 |
| 1208 | 16.2241 | 2.3583 | -.2611 | -.0783 | 2.0587 | .7530 | .0427 | 2.3865 | -.3736 | -.0897 | 1.2000 |
| 1209 | 18.2385 | 2.5225 | -.1425 | -.0307 | 2.1851 | .8651 | .0910 | 2.5523 | -.2493 | -.0414 | 1.2000 |
| 1210 | 20.2193 | 2.6106 | -.0438 | .0412 | 2.2343 | .9603 | .1640 | 2.6398 | -.1407 | .0317 | 1.2000 |
| 1211 | 21.6362 | 2.6194 | .0374 | .0972 | 2.2241 | 1.0142 | .2181 | 2.6567 | -.0764 | .0857 | 1.2000 |
| 1212 | .0869 | .9086 | -.8001 | -.3635 | .9071 | .2295 | -.2458 | .9086 | -.9438 | -.3782 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 73

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1213 | .166 | 1939 | .06 | -.00 | 100433 | 1.0954 | -1.2476 | -.4800 | .0024 | -.0007 | .0056 |
| 1214 | .166 | 1932 | -1.78 | -.00 | 100440 | .9648 | -1.2714 | -.5156 | .0024 | -.0013 | .0067 |
| 1215 | .167 | 1952 | .10 | -.00 | 100420 | 1.1033 | -1.2590 | -.4844 | .0025 | -.0006 | .0079 |
| 1216 | .166 | 1949 | 2.01 | -.00 | 100427 | 1.2425 | -1.2701 | -.4536 | .0027 | -.0008 | .0066 |
| 1217 | .166 | 1949 | 3.96 | -.00 | 100430 | 1.3885 | -1.2861 | -.4254 | .0022 | -.0010 | .0078 |
| 1218 | .166 | 1942 | 5.96 | -.00 | 100430 | 1.5555 | -1.3076 | -.3955 | .0042 | -.0025 | .0077 |
| 1219 | .165 | 1925 | 7.99 | -.00 | 100450 | 1.7213 | -1.2975 | -.3579 | .0051 | -.0006 | .0064 |
| 1220 | .167 | 1968 | 10.05 | .00 | 100406 | 1.8756 | -1.2824 | -.3173 | .0053 | -.0017 | -.0120 |
| 1221 | .167 | 1952 | 12.17 | -.00 | 100420 | 2.0692 | -1.3096 | -.2876 | .0041 | .0007 | .0251 |
| 1222 | .166 | 1939 | 14.23 | -.00 | 100443 | 2.2629 | -1.3375 | -.2565 | .0010 | -.0006 | .0114 |
| 1223 | .167 | 1952 | 16.24 | -.00 | 100420 | 2.4431 | -1.3420 | -.2136 | .0012 | -.0005 | .0090 |
| 1224 | .166 | 1935 | 18.24 | -.00 | 100446 | 2.6488 | -1.3601 | -.1790 | .0002 | -.0004 | .0101 |
| 1225 | .165 | 1906 | 20.17 | -.00 | 100470 | 2.8017 | -1.4030 | -.1239 | .0039 | -.0004 | .0088 |
| 1226 | .165 | 1925 | 21.80 | -.00 | 100450 | 2.8270 | -1.4015 | -.0379 | .0055 | .0009 | .0113 |
| 1227 | .165 | 1925 | .07 | -.00 | 100450 | 1.1134 | -1.2773 | -.4906 | .0030 | -.0005 | .0056 |

TEST 995 RUN 73

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1213 | .0626 | 25.8925 | 2.6397 | 23.3206 | 1.5299 | 1.3451 | .2195 | -1.5745 | .0168 |
| 1214 | -1.7850 | 26.0651 | 2.6548 | 23.2905 | 1.5502 | 1.3631 | .2224 | -1.5937 | .0168 |
| 1215 | .0980 | 26.1597 | 2.6639 | 23.2722 | 1.5430 | 1.3568 | .2213 | -1.5867 | .0171 |
| 1216 | 2.0061 | 26.1719 | 2.6654 | 23.2692 | 1.5467 | 1.3600 | .2219 | -1.5900 | .0174 |
| 1217 | 3.9555 | 26.2497 | 2.6675 | 23.2649 | 1.5526 | 1.3652 | .2227 | -1.5892 | .0176 |
| 1218 | 5.9552 | 26.2974 | 2.6738 | 23.2524 | 1.5629 | 1.3743 | .2241 | -1.5958 | .0178 |
| 1219 | 7.9874 | 25.8491 | 2.6318 | 23.3363 | 1.5385 | 1.3528 | .2207 | -1.5626 | .0176 |
| 1220 | 10.0466 | 25.9108 | 2.6376 | 23.3247 | 1.5106 | 1.3284 | .2166 | -1.5246 | .0177 |
| 1221 | 12.1660 | 25.9684 | 2.6404 | 23.3192 | 1.5275 | 1.3431 | .2191 | -1.5292 | .0178 |
| 1222 | 14.2336 | 25.9925 | 2.6435 | 23.3130 | 1.5402 | 1.3543 | .2209 | -1.5298 | .0176 |
| 1223 | 16.2374 | 26.0371 | 2.6470 | 23.3060 | 1.5334 | 1.3483 | .2200 | -1.5079 | .0173 |
| 1224 | 18.2393 | 26.0474 | 2.6516 | 23.2967 | 1.5488 | 1.3618 | .2221 | -1.5090 | .0176 |
| 1225 | 20.1666 | 26.0027 | 2.6471 | 23.3057 | 1.5692 | 1.3798 | .2250 | -1.5110 | .0187 |
| 1226 | 21.7958 | 26.1427 | 2.6546 | 23.2908 | 1.5632 | 1.3745 | .2242 | -1.4856 | .0203 |
| 1227 | .0722 | 26.2231 | 2.6620 | 23.2760 | 1.5713 | 1.3817 | .2254 | -1.6071 | .0173 |

TEST 995 RUN 73

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1213 | .0626 | 1.0968 | -1.2464 | -.4800 | 1.0951 | .2666 | -.3074 | 1.0967 | -1.2001 | -.4729 | 1.5000 |
| 1214 | -1.7850 | .9247 | -1.3009 | -.5156 | .9730 | .2317 | -.3407 | .9273 | -1.2342 | -.5061 | 1.5000 |
| 1215 | .0980 | 1.1055 | -1.2571 | -.4844 | 1.1029 | .2689 | -.3103 | 1.1054 | -1.1978 | -.4758 | 1.5000 |
| 1216 | 2.0061 | 1.2862 | -1.2258 | -.4536 | 1.2320 | .3025 | -.2791 | 1.2834 | -1.1633 | -.4446 | 1.5000 |
| 1217 | 3.9555 | 1.4739 | -1.1872 | -.4254 | 1.3668 | .3440 | -.2502 | 1.4680 | -1.1192 | -.4157 | 1.5000 |
| 1218 | 5.9552 | 1.6628 | -1.1392 | -.3955 | 1.5206 | .3975 | -.2192 | 1.6728 | -1.0612 | -.3846 | 1.5000 |
| 1219 | 7.9874 | 1.8849 | -1.0457 | -.3579 | 1.6711 | .4602 | -.1843 | 1.8749 | -.9922 | -.3498 | 1.5000 |
| 1220 | 10.0466 | 2.0705 | -.9355 | -.3173 | 1.8078 | .5343 | -.1468 | 2.0629 | -.9099 | -.3123 | 1.5000 |
| 1221 | 12.1660 | 2.2987 | -.8441 | -.2876 | 1.9768 | .6313 | -.1153 | 2.2859 | -.8024 | -.2808 | 1.5000 |
| 1222 | 14.2336 | 2.5223 | -.7401 | -.2565 | 2.1436 | .7353 | -.0827 | 2.5042 | -.6863 | -.2482 | 1.5000 |
| 1223 | 16.2374 | 2.7209 | -.6053 | -.2136 | 2.2921 | .8496 | -.0486 | 2.7022 | -.5586 | -.2061 | 1.5000 |
| 1224 | 18.2393 | 2.9439 | -.4703 | -.1790 | 2.4592 | .9831 | -.0043 | 2.9183 | -.4099 | -.1697 | 1.5000 |
| 1225 | 20.1666 | 3.1136 | -.3511 | -.1239 | 2.5726 | 1.1032 | .0532 | 3.0783 | -.2736 | -.1123 | 1.5000 |
| 1226 | 21.7958 | 3.1452 | -.2517 | -.0379 | 2.5648 | 1.1795 | .1384 | 3.1094 | -.1823 | -.0270 | 1.5000 |
| 1227 | .0722 | 1.1151 | -1.2759 | -.4906 | 1.1131 | .2781 | -.3133 | 1.1149 | -1.1686 | -.4788 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 74

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1228 | .166 | 1939 | .07 | -.00 | 100437 | 1.1391 | -1.4979 | -.5127 | .0021 | -.0002 | .0044 |
| 1229 | .166 | 1935 | -1.80 | -.00 | 100440 | .9985 | -1.5072 | -.5446 | .0018 | -.0010 | .0067 |
| 1230 | .166 | 1949 | .11 | -.00 | 100427 | 1.1392 | -1.4899 | -.5101 | .0023 | -.0002 | .0043 |
| 1231 | .166 | 1942 | 2.01 | -.00 | 100433 | 1.2830 | -1.5041 | -.4806 | .0022 | -.0003 | .0043 |
| 1232 | .166 | 1939 | 3.97 | -.00 | 100437 | 1.4252 | -1.5193 | -.4518 | .0020 | -.0007 | .0042 |
| 1233 | .166 | 1929 | 5.96 | -.00 | 100447 | 1.5925 | -1.5450 | -.4224 | .0033 | -.0026 | .0069 |
| 1234 | .167 | 1952 | 7.98 | -.00 | 100423 | 1.7666 | -1.5373 | -.3876 | .0035 | -.0005 | .0044 |
| 1235 | .165 | 1919 | 10.06 | -.00 | 100457 | 1.9543 | -1.5772 | -.3623 | .0042 | -.0002 | .0058 |
| 1236 | .168 | 1978 | 12.18 | -.00 | 100407 | 2.1190 | -1.5461 | -.3198 | .0017 | -.0003 | .0058 |
| 1237 | .167 | 1968 | 14.26 | -.00 | 100403 | 2.3294 | -1.5714 | -.2901 | -.0014 | -.0008 | .0094 |
| 1238 | .167 | 1958 | 16.28 | -.00 | 100423 | 2.5082 | -1.5987 | -.2536 | -.0004 | -.0021 | .0291 |
| 1239 | .166 | 1932 | 18.28 | -.00 | 100440 | 2.7262 | -1.6265 | -.2211 | -.0013 | -.0001 | .0081 |
| 1240 | .165 | 1922 | 20.27 | -.00 | 100453 | 2.9112 | -1.6520 | -.1768 | .0024 | .0008 | .0125 |
| 1241 | .166 | 1942 | 21.75 | -.00 | 100433 | 2.9242 | -1.6446 | -.0947 | .0050 | .0010 | .0061 |
| 1242 | .166 | 1939 | .07 | -.00 | 100426 | 1.1480 | -1.5113 | -.5187 | .0025 | -.0004 | .0042 |
| 1243 | .166 | 1935 | .03 | -.00 | 100430 | .4241 | .0633 | -.1200 | .0003 | .0004 | .0052 |

TEST 995 RUN 74

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1228 | .0676 | 28.9723 | 2.9405 | 22.7189 | 1.7971 | 1.5802 | .2577 | -1.8634 | .0185 |
| 1229 | -1.7981 | 29.0333 | 2.9440 | 22.7120 | 1.8046 | 1.5868 | .2589 | -1.8691 | .0181 |
| 1230 | .1121 | 28.9951 | 2.9414 | 22.7173 | 1.7896 | 1.5736 | .2567 | -1.8546 | .0185 |
| 1231 | 2.0056 | 29.0214 | 2.9404 | 22.7192 | 1.7965 | 1.5795 | .2578 | -1.8589 | .0189 |
| 1232 | 3.9709 | 28.9838 | 2.9432 | 22.7135 | 1.7982 | 1.5810 | .2580 | -1.8616 | .0193 |
| 1233 | 5.9642 | 29.0090 | 2.9436 | 22.7124 | 1.8089 | 1.5905 | .2595 | -1.8662 | .0195 |
| 1234 | 7.9844 | 29.0266 | 2.9452 | 22.7096 | 1.7898 | 1.5738 | .2567 | -1.8370 | .0194 |
| 1235 | 10.0574 | 28.9828 | 2.9457 | 22.7086 | 1.8177 | 1.5983 | .2607 | -1.8590 | .0197 |
| 1236 | 12.1807 | 29.0514 | 2.9507 | 22.6987 | 1.7687 | 1.5552 | .2537 | -1.7938 | .0195 |
| 1237 | 14.2648 | 29.0634 | 2.9462 | 22.7076 | 1.7783 | 1.5637 | .2551 | -1.7833 | .0192 |
| 1238 | 16.2779 | 29.0839 | 2.9485 | 22.7030 | 1.7881 | 1.5723 | .2565 | -1.7776 | .0188 |
| 1239 | 18.2764 | 29.0748 | 2.9443 | 22.7113 | 1.8112 | 1.5926 | .2598 | -1.7790 | .0189 |
| 1240 | 20.2674 | 29.0888 | 2.9440 | 22.7120 | 1.8214 | 1.6016 | .2612 | -1.7665 | .0201 |
| 1241 | 21.7471 | 29.1256 | 2.9500 | 22.7000 | 1.8059 | 1.5879 | .2591 | -1.7363 | .0218 |
| 1242 | .0749 | 29.1367 | 2.9510 | 22.6980 | 1.8107 | 1.5921 | .2597 | -1.8733 | .0188 |
| 1243 | .0333 | 0.0000 | .9633 | 26.6734 | 0.0000 | 0.0000 | 0.0000 | .0353 | .0086 |

TEST 995 RUN 74

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1228 | .0676 | 1.1409 | -1.4966 | -.5127 | 1.1387 | .2820 | -.3099 | 1.1408 | -1.4780 | -.5085 | 1.8000 |
| 1229 | -1.7981 | .9507 | -1.5378 | -.5446 | 1.0873 | .2478 | -.3410 | .9521 | -1.5113 | -.5396 | 1.8000 |
| 1230 | .1121 | 1.1421 | -1.4877 | -.5101 | 1.1386 | .2834 | -.3082 | 1.1420 | -1.4766 | -.5068 | 1.8000 |
| 1231 | 2.0056 | 1.3348 | -1.4582 | -.4806 | 1.2720 | .3182 | -.2779 | 1.3335 | -1.4408 | -.4765 | 1.8000 |
| 1232 | 3.9709 | 1.5270 | -1.4170 | -.4518 | 1.4025 | .3575 | -.2489 | 1.5244 | -1.3982 | -.4475 | 1.8000 |
| 1233 | 5.9642 | 1.7444 | -1.3712 | -.4224 | 1.5564 | .4084 | -.2183 | 1.7393 | -1.3421 | -.4168 | 1.8000 |
| 1234 | 7.9844 | 1.9630 | -1.2770 | -.3876 | 1.7144 | .4760 | -.1857 | 1.9588 | -1.2669 | -.3842 | 1.8000 |
| 1235 | 10.0574 | 2.1997 | -1.2117 | -.3623 | 1.8822 | .5584 | -.1572 | 2.1896 | -1.1745 | -.3557 | 1.8000 |
| 1236 | 12.1807 | 2.3975 | -1.0642 | -.3198 | 2.0243 | .6452 | -.1202 | 2.3957 | -1.0752 | -.3188 | 1.8000 |
| 1237 | 14.2640 | 2.6448 | -.9490 | -.2901 | 2.2066 | .7553 | -.0894 | 2.6402 | -.9564 | -.2880 | 1.8000 |
| 1238 | 16.2779 | 2.8535 | -.8239 | -.2536 | 2.3523 | .8738 | -.0519 | 2.8456 | -.8157 | -.2504 | 1.8000 |
| 1239 | 18.2764 | 3.0987 | -.6895 | -.2211 | 2.5307 | 1.0114 | -.0168 | 3.0827 | -.6598 | -.2153 | 1.8000 |
| 1240 | 20.2674 | 3.3032 | -.5413 | -.1768 | 2.6722 | 1.1473 | .0267 | 3.2819 | -.5038 | -.1699 | 1.8000 |
| 1241 | 21.7471 | 3.3254 | -.4441 | -.0947 | 2.6563 | 1.2115 | .1091 | 3.3084 | -.4232 | -.0895 | 1.8000 |
| 1242 | .0749 | 1.1499 | -1.5098 | -.5187 | 1.1476 | .2821 | -.3144 | 1.1499 | -1.4779 | -.5129 | 1.8000 |
| 1243 | .0333 | .4241 | .0636 | -.1200 | .4241 | .0197 | -.1200 | .4241 | .0550 | -.1200 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 76

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1252 | .166 | 1932 | .03 | -.00 | 100318 | .4591 | .0797 | -.1337 | -.0011 | .0011 | .0045 |
| 1253 | .166 | 1929 | -1.83 | -.00 | 100321 | .3381 | .0865 | -.1659 | -.0012 | .0004 | .0032 |
| 1254 | .166 | 1929 | .06 | -.00 | 100321 | .4634 | .0801 | -.1329 | -.0005 | .0008 | -.0016 |
| 1255 | .166 | 1932 | 1.97 | -.00 | 100321 | .5836 | .0717 | -.0974 | -.0015 | .0007 | .0022 |
| 1256 | .167 | 1955 | 3.93 | -.00 | 100298 | .7173 | .0590 | -.0587 | .0001 | .0004 | .0016 |
| 1257 | .165 | 1919 | 5.93 | -.00 | 100338 | .8632 | .0472 | -.0211 | .0004 | .0006 | .0004 |
| 1258 | .167 | 1958 | 7.91 | -.00 | 100301 | .9902 | .0388 | .0168 | -.0004 | .0004 | .0015 |
| 1259 | .166 | 1939 | 10.02 | -.00 | 100321 | 1.0855 | .0355 | .0670 | -.0007 | .0005 | -.0000 |
| 1260 | .165 | 1916 | 12.10 | -.00 | 100345 | 1.1643 | .0369 | .1148 | -.0003 | .0006 | .0027 |
| 1261 | .170 | 2028 | 14.17 | -.00 | 100231 | 1.2411 | .0348 | .1719 | -.0004 | .0003 | .0023 |
| 1262 | .167 | 1949 | 16.22 | -.00 | 100311 | 1.3425 | .0553 | .1865 | -.0016 | .0001 | .0066 |
| 1263 | .166 | 1935 | 18.17 | -.00 | 100325 | 1.4686 | .0580 | .2242 | -.0020 | .0001 | .0050 |
| 1264 | .164 | 1892 | 20.16 | -.00 | 100365 | 1.6167 | .0559 | .2651 | .0002 | .0005 | .0051 |
| 1265 | .164 | 1896 | 21.75 | -.00 | 100358 | 1.7319 | .0517 | .3035 | -.0000 | .0016 | -.0032 |
| 1266 | .167 | 1955 | .04 | -.00 | 100291 | .4711 | .0893 | -.1306 | -.0002 | .0005 | -.0029 |

TEST 995 RUN 76

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1252 | .0278 | 0.0000 | .9753 | 26.6493 | 0.0000 | 0.0000 | 0.0000 | .0237 | .0082 |
| 1253 | -1.8344 | 0.0000 | .9758 | 26.6484 | 0.0000 | 0.0000 | 0.0000 | .0233 | .0087 |
| 1254 | .0605 | 0.0000 | .9763 | 26.6475 | 0.0000 | 0.0000 | 0.0000 | .0229 | .0082 |
| 1255 | 1.9664 | .0702 | .9774 | 26.6452 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0080 |
| 1256 | 3.9280 | 0.0000 | .9749 | 26.6503 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0080 |
| 1257 | 5.9280 | 0.0000 | .9721 | 26.6558 | 0.0000 | 0.0000 | 0.0000 | .0269 | .0079 |
| 1258 | 7.9129 | 0.0000 | .9734 | 26.6533 | 0.0000 | 0.0000 | 0.0000 | .0250 | .0079 |
| 1259 | 10.0233 | 0.0000 | .9724 | 26.6552 | 0.0000 | 0.0000 | 0.0000 | .0260 | .0081 |
| 1260 | 12.1048 | 0.0000 | .9721 | 26.6556 | 0.0000 | 0.0000 | 0.0000 | .0265 | .0083 |
| 1261 | 14.1705 | 0.0000 | .9678 | 26.6645 | 0.0000 | 0.0000 | 0.0000 | .0286 | .0085 |
| 1262 | 16.2164 | 0.0000 | .9669 | 26.6663 | 0.0000 | 0.0000 | 0.0000 | .0304 | .0092 |
| 1263 | 18.1730 | 0.0000 | .9641 | 26.6718 | 0.0000 | 0.0000 | 0.0000 | .0328 | .0096 |
| 1264 | 20.1635 | 0.0000 | .9647 | 26.6706 | 0.0000 | 0.0000 | 0.0000 | .0326 | .0099 |
| 1265 | 21.7453 | 0.0000 | .9627 | 26.6746 | 0.0000 | 0.0000 | 0.0000 | .0340 | .0101 |
| 1266 | .0406 | 0.0000 | .9739 | 26.6522 | 0.0000 | 0.0000 | 0.0000 | .0248 | .0083 |

TEST 995 RUN 76

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1252 | .0278 | .4590 | .0799 | -.1337 | .4590 | .0479 | -.1337 | .4590 | .0716 | -.1337 | 1.0000 |
| 1253 | -1.8344 | .3407 | .0757 | -.1659 | .3407 | .0437 | -.1659 | .3407 | .0670 | -.1659 | 1.0000 |
| 1254 | .0605 | .4633 | .0806 | -.1329 | .4633 | .0495 | -.1329 | .4633 | .0724 | -.1329 | 1.0000 |
| 1255 | 1.9664 | .5808 | .0917 | -.0974 | .5808 | .0620 | -.0974 | .5808 | .0838 | -.0974 | 1.0000 |
| 1256 | 3.9280 | .7115 | .1080 | -.0587 | .7115 | .0762 | -.0587 | .7115 | .1000 | -.0587 | 1.0000 |
| 1257 | 5.9280 | .8537 | .1361 | -.0211 | .8537 | .1014 | -.0211 | .8537 | .1283 | -.0211 | 1.0000 |
| 1258 | 7.9129 | .9755 | .1747 | .0168 | .9755 | .1418 | .0168 | .9755 | .1668 | .0168 | 1.0000 |
| 1259 | 10.0233 | 1.0628 | .2239 | .0670 | 1.0628 | .1897 | .0670 | 1.0628 | .2157 | .0670 | 1.0000 |
| 1260 | 12.1048 | 1.1307 | .2802 | .1148 | 1.1307 | .2454 | .1148 | 1.1307 | .2719 | .1148 | 1.0000 |
| 1261 | 14.1705 | 1.1948 | .3375 | .1719 | 1.1948 | .3004 | .1719 | 1.1948 | .3290 | .1719 | 1.0000 |
| 1262 | 16.2164 | 1.2737 | .4280 | .1865 | 1.2737 | .3884 | .1865 | 1.2737 | .4188 | .1865 | 1.0000 |
| 1263 | 18.1730 | 1.3772 | .5131 | .2242 | 1.3772 | .4708 | .2242 | 1.3772 | .5036 | .2242 | 1.0000 |
| 1264 | 20.1635 | 1.4984 | .6098 | .2651 | 1.4984 | .5673 | .2651 | 1.4984 | .5999 | .2651 | 1.0000 |
| 1265 | 21.7453 | 1.5895 | .6897 | .3035 | 1.5895 | .6456 | .3035 | 1.5895 | .6796 | .3035 | 1.0000 |
| 1266 | .0406 | .4710 | .0896 | -.1306 | .4710 | .0566 | -.1306 | .4710 | .0814 | -.1306 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 77

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1267 | .167 | 1952 | .04 | -.00 | 100301 | .4604 | .0877 | -.1296 | -.0007 | .0007 | -.0004 |
| 1268 | .166 | 1925 | .09 | -.00 | 100321 | .9786 | -.8156 | -.3852 | -.0012 | -.0009 | .0086 |
| 1269 | .166 | 1945 | -1.81 | -.00 | 100301 | .8300 | -.8142 | -.4161 | -.0009 | -.0010 | .0119 |
| 1270 | .165 | 1906 | .07 | -.00 | 100341 | .9854 | -.8296 | -.3897 | -.0012 | -.0010 | .0075 |
| 1271 | .166 | 1935 | 1.99 | -.00 | 100311 | 1.1151 | -.8264 | -.3566 | -.0029 | -.0007 | .0103 |
| 1272 | .166 | 1935 | 3.95 | -.00 | 100311 | 1.2590 | -.8380 | -.3241 | -.0009 | -.0015 | .0093 |
| 1273 | .166 | 1935 | 5.95 | -.00 | 100311 | 1.4218 | -.8570 | -.2916 | -.0007 | -.0019 | .0102 |
| 1274 | .166 | 1939 | 7.97 | -.00 | 100318 | 1.5811 | -.8661 | -.2574 | .0018 | -.0012 | .0092 |
| 1275 | .163 | 1866 | 10.01 | -.00 | 100382 | 1.7483 | -.9063 | -.2281 | .0037 | .0002 | .0061 |
| 1276 | .165 | 1916 | 12.15 | -.00 | 100331 | 1.9004 | -.8960 | -.1815 | .0015 | -.0003 | .0095 |
| 1277 | .165 | 1909 | 14.22 | -.00 | 100338 | 2.0775 | -.9113 | -.1405 | .0015 | -.0007 | .0134 |
| 1278 | .166 | 1945 | 16.21 | -.00 | 100301 | 2.2324 | -.9070 | -.0946 | .0027 | -.0005 | .0127 |
| 1279 | .166 | 1932 | 18.23 | -.00 | 100311 | 2.3972 | -.9282 | -.0475 | .0024 | -.0003 | .0150 |
| 1280 | .165 | 1909 | 20.25 | -.00 | 100331 | 2.4634 | -.9507 | .0313 | .0051 | .0000 | .0158 |
| 1281 | .165 | 1902 | 21.73 | -.00 | 100338 | 2.5007 | -.9561 | .0822 | .0043 | .0004 | .0137 |
| 1282 | .167 | 1952 | .06 | -.00 | 100281 | .9710 | -.8160 | -.3858 | -.0010 | -.0007 | .0062 |

TEST 995 RUN 77

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1267 | .0352 | 0.0000 | .9740 | 26.6519 | 0.0000 | 0.0000 | 0.0000 | .0247 | .0082 |
| 1268 | .0893 | 21.2628 | 2.0904 | 24.4192 | 1.1129 | .9785 | .1597 | -1.0531 | .0140 |
| 1269 | -1.8132 | 21.2514 | 2.0937 | 24.4127 | 1.1019 | .9687 | .1582 | -1.0447 | .0140 |
| 1270 | .0659 | 21.2765 | 2.0929 | 24.4143 | 1.1257 | .9896 | .1617 | -1.0666 | .0141 |
| 1271 | 1.9896 | 21.2762 | 2.0918 | 24.4164 | 1.1082 | .9742 | .1592 | -1.0483 | .0139 |
| 1272 | 3.9475 | 21.2301 | 2.0852 | 24.4296 | 1.1047 | .9712 | .1586 | -1.0401 | .0141 |
| 1273 | 5.9452 | 21.2475 | 2.0934 | 24.4131 | 1.1089 | .9750 | .1591 | -1.0448 | .0140 |
| 1274 | 7.9750 | 21.3242 | 2.1002 | 24.3996 | 1.1130 | .9786 | .1597 | -1.0450 | .0143 |
| 1275 | 10.0080 | 21.2791 | 2.0974 | 24.4052 | 1.1526 | 1.0132 | .1656 | -1.0776 | .0148 |
| 1276 | 12.1461 | 21.3588 | 2.1026 | 24.3948 | 1.1293 | .9928 | .1622 | -1.0465 | .0152 |
| 1277 | 14.2152 | 21.3744 | 2.1062 | 24.3876 | 1.1354 | .9982 | .1630 | -1.0448 | .0155 |
| 1278 | 16.2067 | 21.3415 | 2.1011 | 24.3978 | 1.1108 | .9766 | .1595 | -1.0105 | .0159 |
| 1279 | 18.2275 | 21.3967 | 2.1051 | 24.3897 | 1.1220 | .9863 | .1612 | -1.0102 | .0166 |
| 1280 | 20.2547 | 21.4456 | 2.1087 | 24.3825 | 1.1418 | 1.0032 | .1638 | -1.0133 | .0182 |
| 1281 | 21.7290 | 21.4447 | 2.1107 | 24.3785 | 1.1448 | 1.0064 | .1644 | -1.0088 | .0201 |
| 1282 | .0593 | 21.2985 | 2.1008 | 24.3984 | 1.1058 | .9721 | .1588 | -1.0483 | .0142 |

TEST 995 RUN 77

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1267 | .0352 | .4604 | .0880 | -.1296 | .4604 | .0551 | -.1296 | .4604 | .0799 | -.1296 | 1.0000 |
| 1268 | .0893 | .9799 | -.8141 | -.3852 | .9782 | .2848 | -.2597 | .9800 | -.8885 | -.3920 | 1.2000 |
| 1269 | -1.8132 | .8039 | -.8401 | -.4161 | .8387 | .2473 | -.2918 | .8016 | -.9255 | -.4242 | 1.2000 |
| 1270 | .0659 | .9863 | -.8285 | -.3897 | .9850 | .2831 | -.2627 | .9864 | -.8902 | -.3951 | 1.2000 |
| 1271 | 1.9896 | 1.1431 | -.7872 | -.3566 | 1.1046 | .3064 | -.2316 | 1.1454 | -.8662 | -.3640 | 1.2000 |
| 1272 | 3.9475 | 1.3137 | -.7494 | -.3241 | 1.2377 | .3386 | -.1994 | 1.3185 | -.8319 | -.3318 | 1.2000 |
| 1273 | 5.9452 | 1.5029 | -.7051 | -.2916 | 1.3880 | .3838 | -.1665 | 1.5096 | -.7832 | -.2988 | 1.2000 |
| 1274 | 7.9750 | 1.6860 | -.6384 | -.2574 | 1.5316 | .4495 | -.1319 | 1.6944 | -.7124 | -.2642 | 1.2000 |
| 1275 | 10.0080 | 1.8792 | -.5887 | -.2281 | 1.6789 | .5316 | -.0981 | 1.8828 | -.6239 | -.2304 | 1.2000 |
| 1276 | 12.1461 | 2.0464 | -.4761 | -.1815 | 1.8060 | .6127 | -.0541 | 2.0557 | -.5344 | -.1864 | 1.2000 |
| 1277 | 14.2152 | 2.2376 | -.3732 | -.1405 | 1.9588 | .7119 | -.0124 | 2.2469 | -.4255 | -.1448 | 1.2000 |
| 1278 | 16.2067 | 2.3969 | -.2479 | -.0946 | 2.0868 | .8029 | .0307 | 2.4143 | -.3238 | -.1017 | 1.2000 |
| 1279 | 18.2275 | 2.5672 | -.1318 | -.0475 | 2.2163 | .9173 | .0791 | 2.5833 | -.1971 | -.0532 | 1.2000 |
| 1280 | 20.2547 | 2.6402 | -.0391 | .0313 | 2.2451 | 1.0131 | .1601 | 2.6513 | -.0877 | .0277 | 1.2000 |
| 1281 | 21.7290 | 2.6770 | .0377 | .0822 | 2.2532 | 1.0810 | .2114 | 2.6876 | -.0090 | .0790 | 1.2000 |
| 1282 | .0593 | .9718 | -.8150 | -.3858 | .9707 | .2766 | -.2610 | .9719 | -.8967 | -.3934 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 78

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1283 | .166 | 1925 | .07 | -.00 | 100308 | 1.1539 | -1.2504 | -.5007 | .0025 | -.0006 | .0100 |
| 1284 | .166 | 1939 | -1.80 | -.00 | 100294 | 1.0067 | -1.2571 | -.5350 | .0020 | -.0012 | .0099 |
| 1285 | .166 | 1939 | .10 | -.00 | 100294 | 1.1599 | -1.2562 | -.5039 | -.0004 | -.0007 | .0110 |
| 1286 | .166 | 1945 | 2.02 | .00 | 100291 | 1.2978 | -1.2634 | -.4738 | .0018 | -.0015 | -.0017 |
| 1287 | .165 | 1919 | 3.97 | -.00 | 100314 | 1.4354 | -1.2617 | -.4362 | .0025 | -.0010 | .0097 |
| 1288 | .165 | 1922 | 5.97 | -.00 | 100311 | 1.6049 | -1.2836 | -.4056 | .0044 | -.0022 | .0179 |
| 1289 | .167 | 1965 | 7.99 | .00 | 100268 | 1.7671 | -1.2700 | -.3711 | .0041 | -.0023 | -.0113 |
| 1290 | .165 | 1916 | 10.05 | -.00 | 100318 | 1.9516 | -1.3151 | -.3440 | .0060 | -.0002 | .0087 |
| 1291 | .165 | 1919 | 12.15 | -.00 | 100314 | 2.1392 | -1.3318 | -.3111 | .0025 | -.0002 | .0104 |
| 1292 | .165 | 1906 | 14.25 | -.00 | 100328 | 2.3325 | -1.3586 | -.2787 | .0006 | -.0007 | .0114 |
| 1293 | .164 | 1883 | 16.25 | -.00 | 100351 | 2.5235 | -1.3904 | -.2452 | .0002 | -.0004 | .0105 |
| 1294 | .166 | 1932 | 18.25 | -.00 | 100298 | 2.6997 | -1.3712 | -.1977 | .0002 | -.0003 | .0134 |
| 1295 | .165 | 1916 | 20.26 | -.00 | 100318 | 2.8421 | -1.4027 | -.1364 | .0035 | .0000 | .0159 |
| 1296 | .167 | 1965 | 21.70 | -.00 | 100268 | 2.8200 | -1.3749 | -.0500 | .0053 | .0011 | .0110 |
| 1297 | .166 | 1929 | .05 | -.00 | 100298 | 1.1540 | -1.2548 | -.5055 | .0027 | -.0006 | .0099 |

TEST 995 RUN 78

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1283 | .0673 | 26.8379 | 2.6431 | 23.3137 | 1.5945 | 1.4021 | .2287 | -1.5867 | .0172 |
| 1284 | -1.8033 | 26.9494 | 2.6554 | 23.2892 | 1.5926 | 1.4003 | .2285 | -1.5866 | .0170 |
| 1285 | .1027 | 26.9951 | 2.6619 | 23.2762 | 1.5976 | 1.4047 | .2292 | -1.5936 | .0172 |
| 1286 | 2.0233 | 27.0596 | 2.6631 | 23.2737 | 1.5975 | 1.4047 | .2290 | -1.5883 | .0175 |
| 1287 | 3.9699 | 26.5898 | 2.6055 | 23.3890 | 1.5753 | 1.3852 | .2260 | -1.5520 | .0175 |
| 1288 | 5.9686 | 26.7381 | 2.6350 | 23.3300 | 1.5890 | 1.3972 | .2280 | -1.5730 | .0179 |
| 1289 | 7.9937 | 26.7782 | 2.6405 | 23.3191 | 1.5580 | 1.3699 | .2235 | -1.5364 | .0175 |
| 1290 | 10.0508 | 26.7812 | 2.6436 | 23.3129 | 1.6000 | 1.4069 | .2295 | -1.5709 | .0180 |
| 1291 | 12.1505 | 26.8251 | 2.6478 | 23.3044 | 1.6005 | 1.4073 | .2296 | -1.5610 | .0180 |
| 1292 | 14.2497 | 26.8531 | 2.6515 | 23.2970 | 1.6150 | 1.4201 | .2316 | -1.5621 | .0178 |
| 1293 | 16.2548 | 26.9143 | 2.6551 | 23.2899 | 1.6401 | 1.4423 | .2352 | -1.5700 | .0176 |
| 1294 | 18.2510 | 26.9666 | 2.6597 | 23.2807 | 1.6011 | 1.4078 | .2297 | -1.5166 | .0179 |
| 1295 | 20.2641 | 27.0370 | 2.6666 | 23.2663 | 1.6219 | 1.4261 | .2326 | -1.5179 | .0190 |
| 1296 | 21.6994 | 27.0663 | 2.6700 | 23.2600 | 1.5842 | 1.3932 | .2271 | -1.4675 | .0203 |
| 1297 | .0509 | 26.8562 | 2.6480 | 23.3041 | 1.5944 | 1.4019 | .2287 | -1.5884 | .0172 |

TEST 995 RUN 78

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1283 | .0673 | 1.1554 | -1.2490 | -.5007 | 1.1535 | .3283 | -.3208 | 1.1552 | -1.1384 | -.4863 | 1.5000 |
| 1284 | -1.8033 | .9666 | -1.2882 | -.5350 | 1.0167 | .2866 | -.3554 | .9706 | -1.1793 | -.5208 | 1.5000 |
| 1285 | .1027 | 1.1621 | -1.2541 | -.5039 | 1.1593 | .3263 | -.3236 | 1.1619 | -1.1404 | -.4891 | 1.5000 |
| 1286 | 2.0233 | 1.3416 | -1.2168 | -.4738 | 1.2852 | .3622 | -.2936 | 1.3370 | -1.1036 | -.4591 | 1.5000 |
| 1287 | 3.9699 | 1.5193 | -1.1593 | -.4362 | 1.4103 | .3947 | -.2585 | 1.5118 | -1.0684 | -.4239 | 1.5000 |
| 1288 | 5.9686 | 1.7297 | -1.1098 | -.4056 | 1.5645 | .4528 | -.2263 | 1.7170 | -1.0059 | -.3918 | 1.5000 |
| 1289 | 7.9937 | 1.9266 | -1.0119 | -.3711 | 1.7099 | .5134 | -.1953 | 1.9139 | -.9390 | -.3606 | 1.5000 |
| 1290 | 10.0508 | 2.1511 | -.9543 | -.3440 | 1.8719 | .6033 | -.1635 | 2.1279 | -.8409 | -.3289 | 1.5000 |
| 1291 | 12.1505 | 2.3716 | -.8517 | -.3111 | 2.0348 | .6949 | -.1306 | 2.3435 | -.7389 | -.2960 | 1.5000 |
| 1292 | 14.2497 | 2.5952 | -.7427 | -.2787 | 2.1977 | .8049 | -.0965 | 2.5587 | -.6167 | -.2619 | 1.5000 |
| 1293 | 16.2548 | 2.8118 | -.6285 | -.2452 | 2.3527 | .9285 | -.0601 | 2.7632 | -.4795 | -.2256 | 1.5000 |
| 1294 | 18.2510 | 2.9933 | -.4567 | -.1977 | 2.4919 | 1.0460 | -.0171 | 2.9512 | -.3469 | -.1826 | 1.5000 |
| 1295 | 20.2641 | 3.1520 | -.3315 | -.1364 | 2.5903 | 1.1710 | .0466 | 3.0983 | -.2048 | -.1188 | 1.5000 |
| 1296 | 21.6994 | 3.1285 | -.2348 | -.0500 | 2.5428 | 1.2168 | .1288 | 3.0850 | -.1459 | -.0367 | 1.5000 |
| 1297 | .0509 | 1.1551 | -1.2538 | -.5055 | 1.1537 | .3234 | -.3256 | 1.1550 | -1.1433 | -.4911 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 79

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1298 | .167 | 1962 | .06 | -.00 | 100274 | 1.1877 | -1.4808 | -.5297 | .0015 | -.0003 | .0053 |
| 1299 | .166 | 1942 | -1.81 | -.00 | 100284 | 1.0515 | -1.5803 | -.5656 | .0014 | -.0006 | .0089 |
| 1300 | .166 | 1945 | .09 | -.00 | 100281 | 1.2000 | -1.4978 | -.5352 | .0016 | -.0002 | .0066 |
| 1301 | .166 | 1939 | 2.00 | -.00 | 100288 | 1.3374 | -1.5081 | -.5037 | .0014 | -.0004 | .0054 |
| 1302 | .165 | 1919 | 3.96 | -.00 | 100308 | 1.4939 | -1.5392 | -.4790 | .0015 | .0002 | -.0037 |
| 1303 | .165 | 1912 | 5.94 | -.00 | 100314 | 1.6637 | -1.5637 | -.4495 | .0036 | -.0021 | .0099 |
| 1304 | .165 | 1922 | 7.99 | -.00 | 100304 | 1.8416 | -1.5655 | -.4171 | .0029 | -.0002 | .0080 |
| 1305 | .167 | 1958 | 10.07 | -.00 | 100261 | 1.9961 | -1.5491 | -.3768 | .0039 | .0008 | -.0032 |
| 1306 | .166 | 1939 | 12.16 | -.00 | 100281 | 2.1847 | -1.5643 | -.3426 | .0015 | -.0004 | .0079 |
| 1307 | .165 | 1919 | 14.26 | -.00 | 100301 | 2.3914 | -1.5877 | -.3081 | -.0015 | -.0008 | .0104 |
| 1308 | .164 | 1896 | 16.25 | -.00 | 100324 | 2.5669 | -1.6215 | -.2820 | -.0017 | -.0007 | .0081 |
| 1309 | .165 | 1902 | 18.25 | -.00 | 100318 | 2.7810 | -1.6320 | -.2395 | -.0011 | -.0001 | .0088 |
| 1310 | .165 | 1906 | 20.26 | -.00 | 100314 | 2.9546 | -1.6453 | -.1881 | .0021 | .0004 | .0064 |
| 1311 | .166 | 1929 | 21.67 | -.00 | 100291 | 2.9653 | -1.6374 | -.1067 | .0053 | .0012 | .0090 |
| 1312 | .166 | 1942 | .08 | -.00 | 100271 | 1.1957 | -1.4939 | -.5321 | .0023 | -.0003 | .0082 |
| 1313 | .166 | 1932 | .03 | -.00 | 100281 | .4650 | .0741 | -.1332 | -.0005 | .0007 | -.0004 |

TEST 995 RUN 79

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1298 | .0613 | 29.8247 | 2.9480 | 22.7048 | 1.8223 | 1.6025 | .2613 | -1.8456 | .0183 |
| 1299 | -1.8084 | 29.8107 | 2.9481 | 22.7038 | 1.8394 | 1.6174 | .2638 | -1.8638 | .0182 |
| 1300 | .0939 | 29.8867 | 2.9560 | 22.6880 | 1.8433 | 1.6208 | .2644 | -1.8690 | .0184 |
| 1301 | 2.0048 | 29.8278 | 2.9498 | 22.7003 | 1.8451 | 1.6225 | .2645 | -1.8685 | .0187 |
| 1302 | 3.9640 | 29.8927 | 2.9535 | 22.6930 | 1.8682 | 1.6427 | .2680 | -1.8883 | .0192 |
| 1303 | 5.9411 | 29.9571 | 2.9598 | 22.6804 | 1.8802 | 1.6533 | .2697 | -1.8954 | .0192 |
| 1304 | 7.9863 | 29.9273 | 2.9606 | 22.6789 | 1.8692 | 1.6436 | .2681 | -1.8780 | .0193 |
| 1305 | 10.0662 | 29.9061 | 2.9581 | 22.6837 | 1.8330 | 1.6118 | .2628 | -1.8295 | .0192 |
| 1306 | 12.1594 | 29.6956 | 2.9323 | 22.7354 | 1.8328 | 1.6117 | .2628 | -1.8111 | .0192 |
| 1307 | 14.2562 | 29.5761 | 2.9220 | 22.7561 | 1.8398 | 1.6176 | .2640 | -1.8048 | .0190 |
| 1308 | 16.2454 | 29.6330 | 2.9252 | 22.7496 | 1.8678 | 1.6425 | .2678 | -1.8131 | .0188 |
| 1309 | 18.2545 | 29.6627 | 2.9277 | 22.7447 | 1.8633 | 1.6384 | .2672 | -1.7894 | .0190 |
| 1310 | 20.2586 | 29.6533 | 2.9299 | 22.7401 | 1.8598 | 1.6353 | .2668 | -1.7666 | .0201 |
| 1311 | 21.6657 | 29.7140 | 2.9329 | 22.7342 | 1.8429 | 1.6206 | .2642 | -1.7313 | .0217 |
| 1312 | .0751 | 29.8054 | 2.9411 | 22.7179 | 1.8380 | 1.6163 | .2635 | -1.8577 | .0183 |
| 1313 | .0329 | 0.0000 | .9617 | 26.6767 | 0.0000 | 0.0000 | 0.0000 | .0369 | .0083 |

TEST 995 RUN 79

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1298 | .0613 | 1.1893 | -1.4796 | -.5297 | 1.1874 | .3245 | -.3241 | 1.1892 | -1.4355 | -.5227 | 1.8000 |
| 1299 | -1.8084 | 1.0037 | -1.5328 | -.5656 | 1.0617 | .2875 | -.3581 | 1.0062 | -1.4716 | -.5567 | 1.8000 |
| 1300 | .0939 | 1.2025 | -1.4959 | -.5352 | 1.1995 | .3291 | -.3272 | 1.2023 | -1.4309 | -.5258 | 1.8000 |
| 1301 | 2.0048 | 1.3894 | -1.4604 | -.5037 | 1.3248 | .3649 | -.2955 | 1.3864 | -1.3940 | -.4941 | 1.8000 |
| 1302 | 3.9640 | 1.5967 | -1.4323 | -.4790 | 1.4676 | .4123 | -.2683 | 1.5892 | -1.3435 | -.4668 | 1.8000 |
| 1303 | 5.9411 | 1.8166 | -1.3831 | -.4495 | 1.6220 | .4678 | -.2374 | 1.8042 | -1.2828 | -.4359 | 1.8000 |
| 1304 | 7.9863 | 2.0412 | -1.2945 | -.4171 | 1.7815 | .5373 | -.2063 | 2.0260 | -1.2056 | -.4048 | 1.8000 |
| 1305 | 10.0662 | 2.2362 | -1.1764 | -.3768 | 1.9158 | .6092 | -.1780 | 2.2234 | -1.1237 | -.3686 | 1.8000 |
| 1306 | 12.1594 | 2.4652 | -1.0691 | -.3426 | 2.0791 | .7035 | -.1358 | 2.4498 | -1.0171 | -.3344 | 1.8000 |
| 1307 | 14.2562 | 2.7087 | -.9499 | -.3081 | 2.2557 | .8142 | -.1005 | 2.6891 | -.8916 | -.2991 | 1.8000 |
| 1308 | 16.2454 | 2.9181 | -.8386 | -.2820 | 2.3955 | .9359 | -.0712 | 2.8879 | -.7539 | -.2698 | 1.8000 |
| 1309 | 18.2545 | 3.1523 | -.6787 | -.2395 | 2.5686 | 1.0718 | -.0292 | 3.1199 | -.5997 | -.2278 | 1.8000 |
| 1310 | 20.2586 | 3.3415 | -.5205 | -.1881 | 2.6975 | 1.2042 | .0218 | 3.3069 | -.4469 | -.1768 | 1.8000 |
| 1311 | 21.6657 | 3.3604 | -.4270 | -.1067 | 2.6800 | 1.2641 | .1012 | 3.3297 | -.3716 | -.0974 | 1.8000 |
| 1312 | .0751 | 1.1977 | -1.4923 | -.5321 | 1.1952 | .3273 | -.3247 | 1.1976 | -1.4327 | -.5233 | 1.8000 |
| 1313 | .0329 | .4650 | .0744 | -.1332 | .4650 | .0292 | -.1332 | .4650 | .0660 | -.1332 | 1.0000 |

TEST 995 NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL RUN 81

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1331 | .166 | 1942 | .04 | -.00 | 100305 | .6373 | .1082 | -.1906 | -.0014 | .0003 | .0010 |
| 1332 | .166 | 1942 | -1.83 | -.00 | 100305 | .5069 | .1156 | -.2257 | -.0023 | .0001 | .0006 |
| 1333 | .166 | 1945 | .06 | -.00 | 100301 | .6397 | .1115 | -.1901 | -.0018 | .0001 | -.0012 |
| 1334 | .165 | 1922 | 1.98 | -.00 | 100325 | .7636 | .1018 | -.1570 | -.0025 | .0003 | .0032 |
| 1335 | .165 | 1912 | 3.95 | -.00 | 100335 | .9046 | .0903 | -.1215 | -.0002 | -.0004 | .0017 |
| 1336 | .166 | 1929 | 5.93 | -.00 | 100321 | 1.0407 | .0812 | -.0906 | -.0018 | .0001 | .0042 |
| 1337 | .166 | 1939 | 7.96 | .00 | 100308 | 1.1742 | .0808 | -.0444 | -.0031 | .0006 | -.0073 |
| 1338 | .165 | 1922 | 10.02 | -.00 | 100325 | 1.2648 | .0796 | -.0017 | -.0027 | .0003 | .0009 |
| 1339 | .166 | 1939 | 12.12 | -.00 | 100308 | 1.3530 | .0812 | .0447 | -.0024 | .0001 | .0036 |
| 1340 | .166 | 1925 | 14.16 | -.00 | 100321 | 1.4311 | .0903 | .0894 | -.0028 | .0001 | .0019 |
| 1341 | .165 | 1922 | 16.18 | .00 | 100325 | 1.5612 | .0997 | .0931 | -.0039 | -.0024 | -.0231 |
| 1342 | .164 | 1892 | 18.18 | -.00 | 100355 | 1.7228 | .1032 | .1251 | -.0023 | .0001 | .0026 |
| 1343 | .165 | 1912 | 20.21 | -.00 | 100335 | 1.8481 | .0973 | .1741 | -.0004 | .0004 | -.0022 |
| 1344 | .165 | 1922 | 21.67 | -.00 | 100325 | 1.9412 | .0918 | .2140 | .0006 | .0029 | .0183 |
| 1345 | .166 | 1929 | .06 | -.00 | 100318 | .6382 | .1224 | -.1902 | -.0017 | .0001 | -.0013 |

TEST 995 RUN 81

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1331 | .0392 | 0.0000 | .9719 | 36.8704 | 0.0000 | 0.0000 | 0.0000 | .0269 | .0092 |
| 1332 | -1.8272 | 0.0000 | .9721 | 36.8698 | 0.0000 | 0.0000 | 0.0000 | .0267 | .0094 |
| 1333 | .0650 | 0.0000 | .9719 | 36.8704 | 0.0000 | 0.0000 | 0.0000 | .0269 | .0093 |
| 1334 | 1.9844 | 0.0000 | .9719 | 36.8703 | 0.0000 | 0.0000 | 0.0000 | .0272 | .0091 |
| 1335 | 3.9501 | 0.0000 | .9719 | 36.8703 | 0.0000 | 0.0000 | 0.0000 | .0273 | .0090 |
| 1336 | 5.9315 | 0.0000 | .9713 | 36.8718 | 0.0000 | 0.0000 | 0.0000 | .0275 | .0089 |
| 1337 | 7.9617 | 0.0000 | .9698 | 36.8756 | 0.0000 | 0.0000 | 0.0000 | .0287 | .0089 |
| 1338 | 10.0152 | 0.0000 | .9687 | 36.8782 | 0.0000 | 0.0000 | 0.0000 | .0298 | .0094 |
| 1339 | 12.1207 | 0.0000 | .9667 | 36.8833 | 0.0000 | 0.0000 | 0.0000 | .0313 | .0099 |
| 1340 | 14.1558 | 0.0000 | .9650 | 36.8874 | 0.0000 | 0.0000 | 0.0000 | .0327 | .0106 |
| 1341 | 16.1765 | 0.0000 | .9671 | 36.8822 | 0.0000 | 0.0000 | 0.0000 | .0306 | .0103 |
| 1342 | 18.1754 | 0.0000 | .9623 | 36.8943 | 0.0000 | 0.0000 | 0.0000 | .0352 | .0107 |
| 1343 | 20.2057 | 0.0000 | .9617 | 36.8959 | 0.0000 | 0.0000 | 0.0000 | .0350 | .0113 |
| 1344 | 21.6741 | 0.0000 | .9602 | 36.8996 | 0.0000 | 0.0000 | 0.0000 | .0358 | .0115 |
| 1345 | .0575 | 0.0000 | .9719 | 36.8703 | 0.0000 | 0.0000 | 0.0000 | .0271 | .0092 |

TEST 995 RUN 81

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1331 | .0392 | .6372 | .1086 | -.1906 | .6372 | .0724 | -.1906 | .6372 | .0994 | -.1906 | 1.0000 |
| 1332 | -1.8272 | .5104 | .0994 | -.2257 | .5104 | .0633 | -.2257 | .5104 | .0900 | -.2257 | 1.0000 |
| 1333 | .0650 | .6396 | .1122 | -.1901 | .6396 | .0760 | -.1901 | .6396 | .1029 | -.1901 | 1.0000 |
| 1334 | 1.9844 | .7596 | .1282 | -.1570 | .7596 | .0919 | -.1570 | .7596 | .1191 | -.1570 | 1.0000 |
| 1335 | 3.9501 | .8962 | .1524 | -.1215 | .8962 | .1161 | -.1215 | .8962 | .1434 | -.1215 | 1.0000 |
| 1336 | 5.9315 | 1.0267 | .1883 | -.0906 | 1.0267 | .1518 | -.0906 | 1.0267 | .1794 | -.0906 | 1.0000 |
| 1337 | 7.9617 | 1.1517 | .2426 | -.0444 | 1.1517 | .2050 | -.0444 | 1.1517 | .2337 | -.0444 | 1.0000 |
| 1338 | 10.0152 | 1.2317 | .2983 | -.0017 | 1.2317 | .2592 | -.0017 | 1.2317 | .2890 | -.0017 | 1.0000 |
| 1339 | 12.1207 | 1.3058 | .3634 | .0447 | 1.3058 | .3223 | .0447 | 1.3058 | .3535 | .0447 | 1.0000 |
| 1340 | 14.1558 | 1.3656 | .4375 | .0894 | 1.3656 | .3942 | .0894 | 1.3656 | .4270 | .0894 | 1.0000 |
| 1341 | 16.1765 | 1.4716 | .5307 | .0931 | 1.4716 | .4898 | .0931 | 1.4716 | .5204 | .0931 | 1.0000 |
| 1342 | 18.1754 | 1.6046 | .6354 | .1251 | 1.6046 | .5894 | .1251 | 1.6046 | .6247 | .1251 | 1.0000 |
| 1343 | 20.2057 | 1.7007 | .7296 | .1741 | 1.7007 | .6834 | .1741 | 1.7007 | .7184 | .1741 | 1.0000 |
| 1344 | 21.6741 | 1.7700 | .8022 | .2140 | 1.7700 | .7550 | .2140 | 1.7700 | .7908 | .2140 | 1.0000 |
| 1345 | .0575 | .6381 | .1231 | -.1902 | .6381 | .0868 | -.1902 | .6381 | .1139 | -.1902 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 82

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1347 | .167 | 1955 | .05 | -.00 | 100298 | .6399 | .1218 | -.1892 | -.0016 | .0001 | -.0013 |
| 1348 | .166 | 1942 | .09 | -.00 | 100318 | 1.5919 | -1.2873 | -.8433 | .0031 | -.0034 | .0176 |
| 1349 | .165 | 1916 | -1.77 | .00 | 100345 | 1.4586 | -1.3055 | -.8838 | .0016 | -.0044 | .0071 |
| 1350 | .167 | 1949 | .09 | -.00 | 100311 | 1.5937 | -1.2844 | -.8411 | .0030 | -.0036 | .0129 |
| 1351 | .167 | 1955 | 2.01 | -.00 | 100305 | 1.7324 | -1.2905 | -.8123 | .0032 | -.0051 | .0359 |
| 1352 | .166 | 1925 | 3.97 | -.00 | 100335 | 1.9018 | -1.3254 | -.7929 | .0032 | -.0047 | .0151 |
| 1353 | .165 | 1902 | 5.98 | -.00 | 100355 | 2.0923 | -1.3557 | -.7688 | .0048 | -.0046 | .0165 |
| 1354 | .164 | 1879 | 7.96 | -.00 | 100382 | 2.2826 | -1.3874 | -.7456 | .0049 | -.0038 | .0150 |
| 1355 | .165 | 1906 | 10.07 | -.00 | 100355 | 2.4480 | -1.3832 | -.7045 | .0052 | -.0030 | .0151 |
| 1356 | .166 | 1932 | 12.17 | -.00 | 100325 | 2.6302 | -1.3801 | -.6662 | .0016 | -.0035 | .0152 |
| 1357 | .166 | 1925 | 14.27 | -.00 | 100342 | 2.8242 | -1.4063 | -.6337 | -.0003 | -.0041 | .0139 |
| 1358 | .166 | 1939 | 16.25 | -.00 | 100318 | 3.0059 | -1.4122 | -.5901 | .0003 | -.0036 | .0129 |
| 1359 | .165 | 1906 | 18.29 | -.00 | 100355 | 3.2279 | -1.4577 | -.5572 | -.0007 | -.0031 | .0142 |
| 1360 | .164 | 1889 | 20.24 | -.00 | 100372 | 3.3720 | -1.4885 | -.5038 | .0024 | -.0032 | .0137 |
| 1361 | .165 | 1909 | 21.72 | -.00 | 100352 | 3.3691 | -1.4821 | -.4171 | .0053 | -.0037 | .0264 |
| 1362 | .166 | 1945 | .09 | -.00 | 100308 | 1.5918 | -1.2894 | -.8424 | .0010 | -.0035 | .0115 |
| 1363 | .167 | 1962 | .04 | -.00 | 100291 | .6398 | .1007 | -.1934 | -.0016 | .0004 | -.0001 |

TEST 995 RUN 82

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1347 | .0466 | 0.0000 | .9714 | 36.8715 | 0.0000 | 0.0000 | 0.0000 | .0272 | .0093 |
| 1348 | .0854 | 29.9105 | 2.9575 | 31.9062 | 1.6383 | 1.6165 | .2637 | -1.8743 | .0176 |
| 1349 | -1.7741 | 29.8855 | 2.9536 | 31.9159 | 1.8617 | 1.6370 | .2671 | -1.8960 | .0173 |
| 1350 | .0905 | 29.8587 | 2.9564 | 31.9091 | 1.6300 | 1.6091 | .2625 | -1.8668 | .0178 |
| 1351 | 2.0057 | 29.8852 | 2.9596 | 31.9010 | 1.8265 | 1.6061 | .2620 | -1.8622 | .0180 |
| 1352 | 3.9665 | 29.9008 | 2.9557 | 31.9108 | 1.8545 | 1.6306 | .2660 | -1.8844 | .0180 |
| 1353 | 5.9757 | 29.8956 | 2.9631 | 31.8924 | 1.8794 | 1.6527 | .2695 | -1.9091 | .0182 |
| 1354 | 7.9555 | 29.9106 | 2.9607 | 31.8982 | 1.9023 | 1.6726 | .2729 | -1.9227 | .0185 |
| 1355 | 10.0669 | 29.9168 | 2.9576 | 31.9060 | 1.8759 | 1.6495 | .2690 | -1.8814 | .0188 |
| 1356 | 12.1727 | 29.9525 | 2.9654 | 31.8865 | 1.8546 | 1.6308 | .2659 | -1.8491 | .0189 |
| 1357 | 14.2745 | 29.9721 | 2.9682 | 31.8796 | 1.8628 | 1.6380 | .2671 | -1.8424 | .0189 |
| 1358 | 16.2471 | 30.0062 | 2.9686 | 31.8785 | 1.8520 | 1.6285 | .2656 | -1.8127 | .0191 |
| 1359 | 18.2909 | 30.0188 | 2.9730 | 31.8676 | 1.8861 | 1.6585 | .2705 | -1.8285 | .0190 |
| 1360 | 20.2416 | 30.0405 | 2.9698 | 31.8754 | 1.9022 | 1.6725 | .2729 | -1.8201 | .0202 |
| 1361 | 21.7197 | 30.0390 | 2.9716 | 31.8709 | 1.8838 | 1.6565 | .2701 | -1.7848 | .0223 |
| 1362 | .0902 | 29.8002 | 2.9493 | 31.9267 | 1.8300 | 1.6093 | .2623 | -1.8631 | .0176 |
| 1363 | .0442 | 0.0000 | .9689 | 36.8779 | 0.0000 | 0.0000 | 0.0000 | .0295 | .0093 |

TEST 995 RUN 82

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1347 | .0466 | .6398 | .1223 | -.1892 | .6398 | .0858 | -.1892 | .6398 | .1130 | -.1892 | 1.8000 |
| 1348 | .0854 | 1.5938 | -1.2849 | -.8433 | 1.5911 | .5358 | -.6359 | 1.5937 | -1.2242 | -.8344 | 1.8000 |
| 1349 | -1.7741 | 1.4174 | -1.3501 | -.8838 | 1.4751 | .4935 | -.6738 | 1.4206 | -1.2657 | -.8724 | 1.8000 |
| 1350 | .0905 | 1.5957 | -1.2819 | -.8411 | 1.5928 | .5303 | -.6346 | 1.5956 | -1.2297 | -.8332 | 1.8000 |
| 1351 | 2.0057 | 1.7765 | -1.2290 | -.8123 | 1.7125 | .5783 | -.6062 | 1.7741 | -1.1806 | -.8048 | 1.8000 |
| 1352 | 3.9665 | 1.9890 | -1.1906 | -.7929 | 1.8607 | .6413 | -.5837 | 1.9824 | -1.1144 | -.7822 | 1.8000 |
| 1353 | 5.9757 | 2.2221 | -1.1305 | -.7688 | 2.0264 | .7205 | -.5568 | 2.2097 | -1.0300 | -.7553 | 1.8000 |
| 1354 | 7.9555 | 2.4526 | -1.0581 | -.7456 | 2.1894 | .8074 | -.5310 | 2.4329 | -.9357 | -.7296 | 1.8000 |
| 1355 | 10.0669 | 2.6521 | -.9340 | -.7045 | 2.3242 | .8942 | -.4928 | 2.6319 | -.8387 | -.6914 | 1.8000 |
| 1356 | 12.1727 | 2.8621 | -.7945 | -.6662 | 2.4710 | .9995 | -.4569 | 2.8421 | -.7209 | -.6555 | 1.8000 |
| 1357 | 14.2745 | 3.0837 | -.6665 | -.6337 | 2.6244 | 1.1199 | -.4236 | 3.0584 | -.5858 | -.6221 | 1.8000 |
| 1358 | 16.2471 | 3.2810 | -.5148 | -.5901 | 2.7628 | 1.2441 | -.3812 | 3.2552 | -.4456 | -.5797 | 1.8000 |
| 1359 | 18.2909 | 3.5223 | -.3710 | -.5572 | 2.9304 | 1.4008 | -.3444 | 3.4827 | -.2702 | -.5429 | 1.8000 |
| 1360 | 20.2416 | 3.6788 | -.2299 | -.5038 | 3.0206 | 1.5346 | -.2892 | 3.6296 | -.1167 | -.4877 | 1.8000 |
| 1361 | 21.7197 | 3.6784 | -.1301 | -.4171 | 2.9813 | 1.5977 | -.2046 | 3.6326 | -.0374 | -.4031 | 1.8000 |
| 1362 | .0902 | 1.5938 | -1.2869 | -.8424 | 1.5909 | .5256 | -.6359 | 1.5937 | -1.2344 | -.8345 | 1.8000 |
| 1363 | .0442 | .6397 | .1011 | -.1934 | .6397 | .0623 | -.1934 | .6397 | .0919 | -.1934 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 84

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1373 | .167 | 1949 | .01 | .00 | 100332 | .1707 | .0541 | -.0427 | -.0023 | .0006 | -.0120 |
| 1374 | .165 | 1909 | -1.88 | -.00 | 100345 | .0463 | .0599 | -.0780 | -.0031 | -.0001 | .0001 |
| 1375 | .168 | 1988 | .04 | -.00 | 100264 | .1741 | .0582 | -.0414 | -.0019 | .0001 | .0004 |
| 1376 | .166 | 1932 | 1.95 | -.00 | 100328 | .2992 | .0527 | -.0100 | -.0020 | .0005 | .0022 |
| 1377 | .166 | 1932 | 3.90 | -.00 | 100328 | .4325 | .0443 | .0270 | -.0023 | .0003 | .0030 |
| 1378 | .165 | 1919 | 5.88 | -.00 | 100335 | .5756 | .0314 | .0639 | -.0018 | -.0004 | .0046 |
| 1379 | .165 | 1906 | 7.92 | -.00 | 100348 | .7228 | .0213 | .0979 | -.0020 | -.0001 | .0052 |
| 1380 | .165 | 1916 | 9.98 | -.00 | 100338 | .8551 | .0135 | .1349 | -.0021 | .0004 | .0080 |
| 1381 | .165 | 1912 | 12.10 | -.00 | 100341 | .9627 | .0068 | .1828 | -.0020 | .0002 | .0039 |
| 1382 | .166 | 1925 | 14.17 | -.00 | 100321 | 1.0666 | .0048 | .2334 | -.0027 | .0003 | .0036 |
| 1383 | .164 | 1886 | 16.17 | -.00 | 100361 | 1.1927 | .0234 | .2434 | -.0026 | .0004 | .0009 |
| 1384 | .165 | 1906 | 18.18 | -.00 | 100345 | 1.3110 | .0232 | .2784 | -.0024 | .0003 | .0046 |
| 1385 | .165 | 1906 | 20.17 | -.00 | 100345 | 1.4616 | .0151 | .3202 | -.0029 | .0008 | .0018 |
| 1386 | .164 | 1899 | 21.74 | -.00 | 100355 | 1.5731 | .0105 | .3546 | -.0020 | .0011 | .0053 |
| 1387 | .166 | 1932 | .01 | -.00 | 100321 | .1768 | .0700 | -.0415 | -.0012 | .0002 | .0024 |

TEST 995 RUN 84

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1373 | .0068 | 0.0000 | .9784 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0207 | .0076 |
| 1374 | -1.8778 | 0.0000 | .9797 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0078 |
| 1375 | .0374 | 0.0000 | .9794 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0076 |
| 1376 | 1.9485 | 0.0000 | .9797 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0195 | .0075 |
| 1377 | 3.8968 | 0.0000 | .9799 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0077 |
| 1378 | 5.8819 | 0.0000 | .9795 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0076 |
| 1379 | 7.9157 | 0.0000 | .9794 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0199 | .0078 |
| 1380 | 9.9768 | 0.0000 | .9787 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0203 | .0079 |
| 1381 | 12.0971 | 0.0000 | .9775 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0214 | .0081 |
| 1382 | 14.1718 | 0.0000 | .9759 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0225 | .0080 |
| 1383 | 16.1723 | 0.0000 | .9722 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0263 | .0087 |
| 1384 | 18.1809 | 0.0000 | .9692 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0286 | .0089 |
| 1385 | 20.1670 | 0.0000 | .9676 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0297 | .0091 |
| 1386 | 21.7356 | 0.0000 | .9676 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0295 | .0093 |
| 1387 | .0094 | 0.0000 | .9801 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0192 | .0077 |

TEST 995 RUN 84

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1373 | .0068 | .1706 | .0542 | -.0427 | .1706 | .0260 | -.0427 | .1706 | .0466 | -.0427 | 1.0000 |
| 1374 | -1.8778 | .0483 | .0584 | -.0780 | .0483 | .0308 | -.0780 | .0483 | .0506 | -.0780 | 1.0000 |
| 1375 | .0374 | .1741 | .0583 | -.0414 | .1741 | .0314 | -.0414 | .1741 | .0507 | -.0414 | 1.0000 |
| 1376 | 1.9485 | .2972 | .0629 | -.0100 | .2972 | .0359 | -.0100 | .2972 | .0553 | -.0100 | 1.0000 |
| 1377 | 3.8968 | .4285 | .0736 | .0270 | .4285 | .0466 | .0270 | .4285 | .0659 | .0270 | 1.0000 |
| 1378 | 5.8819 | .5693 | .0902 | .0639 | .5693 | .0628 | .0639 | .5693 | .0826 | .0639 | 1.0000 |
| 1379 | 7.9157 | .7130 | .1206 | .0979 | .7130 | .0929 | .0979 | .7130 | .1128 | .0979 | 1.0000 |
| 1380 | 9.9768 | .8399 | .1614 | .1349 | .8399 | .1332 | .1349 | .8399 | .1535 | .1349 | 1.0000 |
| 1381 | 12.0971 | .9399 | .2084 | .1828 | .9399 | .1789 | .1828 | .9399 | .2002 | .1828 | 1.0000 |
| 1382 | 14.1718 | 1.0330 | .2658 | .2334 | 1.0330 | .2352 | .2334 | 1.0330 | .2578 | .2334 | 1.0000 |
| 1383 | 16.1723 | 1.1390 | .3546 | .2434 | 1.1390 | .3196 | .2434 | 1.1390 | .3459 | .2434 | 1.0000 |
| 1384 | 18.1809 | 1.2383 | .4311 | .2784 | 1.2383 | .3936 | .2784 | 1.2383 | .4222 | .2784 | 1.0000 |
| 1385 | 20.1670 | 1.3668 | .5180 | .3202 | 1.3668 | .4792 | .3202 | 1.3668 | .5089 | .3202 | 1.0000 |
| 1386 | 21.7356 | 1.4574 | .5923 | .3546 | 1.4574 | .5535 | .3546 | 1.4574 | .5830 | .3546 | 1.0000 |
| 1387 | .0094 | .1768 | .0700 | -.0415 | .1768 | .0431 | -.0415 | .1768 | .0623 | -.0415 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 85

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1388 | .166 | 1935 | -.00 | -.00 | 100325 | .1765 | .0701 | -.0414 | -.0017 | .0001 | .0037 |
| 1389 | .166 | 1939 | -.00 | -.00 | 100321 | .1752 | .0785 | -.0395 | -.0016 | -.0001 | .0013 |
| 1390 | .166 | 1945 | .02 | -.00 | 100321 | .4230 | -1.5815 | -.1996 | -.0009 | .0035 | .0115 |
| 1391 | .166 | 1945 | -1.86 | -.00 | 100321 | .2709 | -1.5898 | -.2309 | -.0016 | .0031 | .0123 |
| 1392 | .166 | 1939 | .05 | -.00 | 100328 | .4314 | -1.6011 | -.2036 | -.0013 | .0020 | -.0083 |
| 1393 | .166 | 1935 | 1.98 | -.00 | 100332 | .5672 | -1.5881 | -.1683 | -.0008 | .0044 | -.0015 |
| 1394 | .166 | 1945 | 3.93 | -.00 | 100321 | .7162 | -1.5917 | -.1377 | -.0009 | .0035 | .0115 |
| 1395 | .167 | 1949 | 5.93 | -.00 | 100318 | .8618 | -1.6102 | -.1053 | -.0009 | .0031 | .0122 |
| 1397 | .166 | 1932 | 7.95 | -.00 | 100342 | 1.0262 | -1.5995 | -.0676 | .0006 | .0023 | .0106 |
| 1398 | .166 | 1945 | 10.01 | -.00 | 100328 | 1.2047 | -1.6064 | -.0425 | .0005 | .0037 | .0147 |
| 1399 | .166 | 1972 | 12.13 | -.00 | 100308 | 1.4026 | -1.6158 | -.0202 | .0006 | .0037 | .0114 |
| 1400 | .167 | 1952 | 14.19 | -.00 | 100332 | 1.6185 | -1.6502 | .0047 | -.0028 | .0036 | .0084 |
| 1401 | .166 | 1942 | 16.22 | -.00 | 100342 | 1.8093 | -1.6804 | .0386 | -.0032 | .0037 | .0114 |
| 1402 | .166 | 1945 | 18.23 | -.00 | 100338 | 2.0022 | -1.6990 | .0756 | -.0031 | .0041 | .0141 |
| 1403 | .167 | 1962 | 20.23 | -.00 | 100325 | 2.2118 | -1.6830 | .1098 | -.0003 | .0052 | .0123 |
| 1404 | .166 | 1935 | 21.77 | -.00 | 100355 | 2.3305 | -1.7302 | .1525 | .0024 | .0057 | .0110 |
| 1405 | .166 | 1935 | .02 | -.00 | 100348 | .4140 | -1.5684 | -.1925 | -.0004 | .0034 | .0055 |
| 1406 | .166 | 1939 | .01 | -.00 | 100352 | .1762 | .0581 | -.0434 | -.0030 | -.0001 | .0008 |

TEST 995 RUN 85

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1388 | -.0022 | 0.0000 | .9803 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0189 | .0077 |
| 1389 | -.0022 | .1244 | .9801 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0191 | .0077 |
| 1390 | .0166 | 30.1931 | 2.9639 | 7.0000 | 1.8501 | 1.6259 | .2663 | -1.8965 | .0324 |
| 1391 | -1.8615 | 30.1991 | 2.9910 | 7.0000 | 1.8563 | 1.6315 | .2671 | -1.9023 | .0323 |
| 1392 | .0541 | 30.2305 | 2.9926 | 7.0000 | 1.8649 | 1.6388 | .2685 | -1.9114 | .0326 |
| 1393 | 1.9768 | 29.9540 | 2.9737 | 7.0000 | 1.8514 | 1.6272 | .2663 | -1.8954 | .0326 |
| 1394 | 3.9335 | 29.9611 | 2.9710 | 7.0000 | 1.8426 | 1.6194 | .2651 | -1.8796 | .0323 |
| 1395 | 5.9258 | 30.0633 | 2.9861 | 7.0000 | 1.8587 | 1.6265 | .2663 | -1.8851 | .0323 |
| 1397 | 7.9463 | 29.5717 | 2.9417 | 7.0000 | 1.8274 | 1.6060 | .2629 | -1.8512 | .0322 |
| 1398 | 10.0141 | 29.6668 | 2.9481 | 7.0000 | 1.8230 | 1.6022 | .2622 | -1.8339 | .0316 |
| 1399 | 12.1318 | 29.8949 | 2.9714 | 7.0000 | 1.8185 | 1.5982 | .2616 | -1.8175 | .0306 |
| 1400 | 14.1917 | 29.8823 | 2.9653 | 7.0000 | 1.8332 | 1.6109 | .2639 | -1.8153 | .0300 |
| 1401 | 16.2183 | 29.9720 | 2.9742 | 7.0000 | 1.8518 | 1.6275 | .2664 | -1.8155 | .0295 |
| 1402 | 18.2321 | 30.0664 | 2.9830 | 7.0000 | 1.8571 | 1.6322 | .2671 | -1.8007 | .0287 |
| 1403 | 20.2270 | 29.7780 | 2.9553 | 7.0000 | 1.8161 | 1.5961 | .2613 | -1.7391 | .0283 |
| 1404 | 21.7681 | 29.9096 | 2.9680 | 7.0000 | 1.8532 | 1.6288 | .2665 | -1.7566 | .0288 |
| 1405 | .0231 | 29.7293 | 2.9517 | 7.0000 | 1.8372 | 1.6145 | .2643 | -1.8757 | .0323 |
| 1406 | .0071 | 0.0000 | .9697 | 7.0000 | 0.0000 | 0.0000 | 0.0000 | .0291 | .0076 |

TEST 995 RUN 85

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1388 | -.0022 | .1765 | .0701 | -.0414 | .1765 | .0435 | -.0414 | .1765 | .0624 | -.0414 | 1.0000 |
| 1389 | -.0022 | .1752 | .0785 | -.0395 | .1752 | .0517 | -.0395 | .1752 | .0708 | -.0395 | 1.0000 |
| 1390 | .0166 | .4234 | -1.5813 | -.1996 | .4229 | .2363 | .0092 | .4234 | -1.5237 | -.1894 | 1.8000 |
| 1391 | -1.8615 | .2192 | -1.5978 | -.2309 | .2795 | .2253 | -.0215 | .2223 | -1.5338 | -.2201 | 1.8000 |
| 1392 | .0541 | .4329 | -1.6007 | -.2036 | .4312 | .2316 | .0068 | .4328 | -1.5284 | -.1917 | 1.8000 |
| 1393 | 1.9768 | .6217 | -1.5676 | -.1683 | .5578 | .2501 | .0406 | .6185 | -1.5088 | -.1580 | 1.8000 |
| 1394 | 3.9335 | .8237 | -1.5388 | -.1377 | .6973 | .2671 | .0702 | .8180 | -1.4888 | -.1283 | 1.8000 |
| 1395 | 5.9258 | 1.0234 | -1.5126 | -.1053 | .8323 | .2959 | .1035 | 1.0140 | -1.4547 | -.0951 | 1.8000 |
| 1397 | 7.9463 | 1.2374 | -1.4423 | -.0676 | .9848 | .3354 | .1385 | 1.2281 | -1.4077 | -.0600 | 1.8000 |
| 1398 | 10.0141 | 1.4657 | -1.3725 | -.0425 | 1.1487 | .3912 | .1632 | 1.4547 | -1.3420 | -.0354 | 1.8000 |
| 1399 | 12.1318 | 1.7108 | -1.2849 | -.0202 | 1.3287 | .4624 | .1850 | 1.6986 | -1.2583 | -.0136 | 1.8000 |
| 1400 | 14.1917 | 1.9737 | -1.2031 | .0047 | 1.5243 | .5441 | .2115 | 1.9558 | -1.1622 | .0130 | 1.8000 |
| 1401 | 16.2183 | 2.2066 | -1.1082 | .0386 | 1.6894 | .6403 | .2475 | 2.1810 | -1.0496 | .0469 | 1.8000 |
| 1402 | 18.2321 | 2.4332 | -.9873 | .0756 | 1.8522 | .7479 | .2852 | 2.4028 | -.9237 | .0866 | 1.8000 |
| 1403 | 20.2270 | 2.6573 | -.8146 | .1098 | 2.0294 | .8613 | .3147 | 2.6379 | -.7902 | .1161 | 1.8000 |
| 1404 | 21.7681 | 2.8060 | -.7426 | .1525 | 2.1187 | .9497 | .3616 | 2.7714 | -.6848 | .1630 | 1.8000 |
| 1405 | .0231 | .4147 | -1.5682 | -.1925 | .4139 | .2367 | .0147 | .4146 | -1.5233 | -.1838 | 1.8000 |
| 1406 | .0071 | .1762 | .0581 | -.0434 | .1762 | .0215 | -.0434 | .1762 | .0506 | -.0434 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 87

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYN,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1428 | .166 | 1932 | .00 | -.00 | 100440 | .1447 | .0480 | -.0367 | -.0027 | .0003 | -.0038 |
| 1429 | .166 | 1932 | -1.88 | -.00 | 100440 | .0103 | .0509 | -.0691 | -.0028 | .0005 | -.0034 |
| 1430 | .166 | 1935 | .02 | -.00 | 100437 | .1470 | .0498 | -.0345 | -.0028 | .0006 | -.0048 |
| 1431 | .166 | 1945 | 1.94 | -.00 | 100426 | .2744 | .0443 | -.0015 | -.0023 | .0001 | -.0033 |
| 1432 | .166 | 1935 | 3.91 | -.00 | 100437 | .3990 | .0351 | .0368 | -.0033 | .0002 | .0013 |
| 1433 | .165 | 1919 | 5.90 | -.00 | 100453 | .5231 | .0212 | .0753 | -.0035 | -.0008 | .0006 |
| 1434 | .166 | 1939 | 7.92 | -.00 | 100433 | .6500 | .0089 | .1192 | -.0025 | -.0003 | .0029 |
| 1435 | .166 | 1949 | 9.99 | -.00 | 100423 | .7928 | .0027 | .1541 | -.0031 | .0002 | .0059 |
| 1436 | .166 | 1942 | 12.08 | -.00 | 100430 | .9268 | .0025 | .1913 | -.0030 | .0010 | .0088 |
| 1437 | .166 | 1949 | 14.18 | -.00 | 100423 | 1.0238 | .0054 | .2396 | -.0028 | .0013 | .0106 |
| 1438 | .166 | 1932 | 16.15 | .00 | 100440 | 1.1294 | .0238 | .2631 | -.0010 | .0003 | .0014 |
| 1439 | .165 | 1925 | 18.16 | -.00 | 100447 | 1.3071 | .0379 | .2700 | -.0031 | .0011 | .0081 |
| 1440 | .166 | 1939 | 20.16 | -.00 | 100433 | 1.4726 | .0320 | .3037 | -.0027 | .0008 | .0084 |
| 1441 | .166 | 1932 | 21.63 | -.00 | 100440 | 1.5835 | .0249 | .3342 | -.0015 | .0011 | .0038 |
| 1442 | .167 | 1955 | .02 | -.00 | 100413 | .1431 | .0591 | -.0349 | -.0021 | .0001 | -.0017 |

TEST 995 RUN 87

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1428 | .0031 | .9271 | .9740 | 4.4532 | 0.0000 | 0.0000 | 0.0000 | .0252 | .0071 |
| 1429 | -1.8831 | .8411 | .9752 | 4.4553 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0071 |
| 1430 | .0219 | .7498 | .9751 | 4.4553 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0071 |
| 1431 | 1.9383 | .9144 | .9732 | 4.4517 | 0.0000 | 0.0000 | 0.0000 | .0258 | .0071 |
| 1432 | 3.9087 | .8294 | .9765 | 4.4577 | 0.0000 | 0.0000 | 0.0000 | .0227 | .0071 |
| 1433 | 5.8959 | .7373 | .9760 | 4.4569 | 0.0000 | 0.0000 | 0.0000 | .0233 | .0069 |
| 1434 | 7.9204 | .8963 | .9769 | 4.4583 | 0.0000 | 0.0000 | 0.0000 | .0221 | .0068 |
| 1435 | 9.9932 | 1.0298 | .9757 | 4.4563 | 0.0000 | 0.0000 | 0.0000 | .0230 | .0069 |
| 1436 | 12.0782 | .8078 | .9760 | 4.4567 | 0.0000 | 0.0000 | 0.0000 | .0227 | .0072 |
| 1437 | 14.1774 | .8814 | .9748 | 4.4546 | 0.0000 | 0.0000 | 0.0000 | .0235 | .0075 |
| 1438 | 16.1524 | 1.0733 | .9703 | 4.4465 | 0.0000 | 0.0000 | 0.0000 | .0277 | .0076 |
| 1439 | 18.1555 | .7123 | .9653 | 4.4376 | 0.0000 | 0.0000 | 0.0000 | .0321 | .0090 |
| 1440 | 20.1584 | .9362 | .9632 | 4.4338 | 0.0000 | 0.0000 | 0.0000 | .0333 | .0093 |
| 1441 | 21.6302 | .7883 | .9622 | 4.4319 | 0.0000 | 0.0000 | 0.0000 | .0341 | .0094 |
| 1442 | .0217 | .8535 | .9762 | 4.4571 | 0.0000 | 0.0000 | 0.0000 | .0228 | .0072 |

TEST 995 RUN 87

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1428 | .0031 | .1447 | .0480 | -.0367 | .1447 | .0157 | -.0367 | .1447 | .0409 | -.0367 | 1.0000 |
| 1429 | -1.8831 | .0120 | .0505 | -.0691 | .0120 | .0193 | -.0691 | .0120 | .0434 | -.0691 | 1.0000 |
| 1430 | .0219 | .1470 | .0498 | -.0345 | .1470 | .0187 | -.0345 | .1470 | .0428 | -.0345 | 1.0000 |
| 1431 | 1.9383 | .2728 | .0536 | -.0015 | .2728 | .0207 | -.0015 | .2728 | .0465 | -.0015 | 1.0000 |
| 1432 | 3.9087 | .3957 | .0622 | .0368 | .3957 | .0325 | .0368 | .3957 | .0552 | .0368 | 1.0000 |
| 1433 | 5.8959 | .5182 | .0748 | .0753 | .5182 | .0446 | .0753 | .5182 | .0679 | .0753 | 1.0000 |
| 1434 | 7.9204 | .6426 | .0984 | .1192 | .6426 | .0695 | .1192 | .6426 | .0916 | .1192 | 1.0000 |
| 1435 | 9.9932 | .7803 | .1403 | .1541 | .7803 | .1184 | .1541 | .7803 | .1334 | .1541 | 1.0000 |
| 1436 | 12.0782 | .9057 | .1963 | .1913 | .9057 | .1665 | .1913 | .9057 | .1892 | .1913 | 1.0000 |
| 1437 | 14.1774 | .9913 | .2560 | .2396 | .9913 | .2250 | .2396 | .9913 | .2485 | .2396 | 1.0000 |
| 1438 | 16.1524 | 1.0782 | .3370 | .2631 | 1.0782 | .3018 | .2631 | 1.0782 | .3295 | .2631 | 1.0000 |
| 1439 | 18.1555 | 1.2302 | .4433 | .2700 | 1.2302 | .4023 | .2700 | 1.2302 | .4343 | .2700 | 1.0000 |
| 1440 | 20.1584 | 1.3714 | .5376 | .3037 | 1.3714 | .4950 | .3037 | 1.3714 | .5283 | .3037 | 1.0000 |
| 1441 | 21.6302 | 1.4628 | .6069 | .3342 | 1.4628 | .5634 | .3342 | 1.4628 | .5975 | .3342 | 1.0000 |
| 1442 | .0217 | .1431 | .0591 | -.0349 | .1431 | .0292 | -.0349 | .1431 | .0520 | -.0349 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 88

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1443 | .166 | 1935 | .01 | .00 | 100433 | .1377 | .0564 | -.0329 | -.0022 | -.0001 | -.0040 |
| 1444 | .166 | 1935 | .01 | .00 | 100423 | .2583 | -.9879 | -.1246 | -.0043 | -.0006 | -.0036 |
| 1445 | .166 | 1935 | -1.96 | -.00 | 100423 | .1185 | -.9878 | -.1547 | -.0041 | -.0004 | .0013 |
| 1446 | .166 | 1942 | .05 | -.00 | 100413 | .2597 | -.9914 | -.1254 | -.0030 | -.0007 | .0028 |
| 1447 | .166 | 1942 | 1.96 | -.00 | 100413 | .3972 | -1.0003 | -.0950 | -.0038 | -.0004 | .0027 |
| 1448 | .166 | 1935 | 3.92 | -.00 | 100420 | .5379 | -1.0151 | -.0628 | -.0038 | -.0006 | .0045 |
| 1449 | .165 | 1925 | 5.92 | -.00 | 100426 | .6783 | -.9598 | -.0240 | -.0045 | .0004 | -.0018 |
| 1450 | .167 | 1949 | 7.94 | -.00 | 100403 | .8258 | -.9752 | .0118 | -.0033 | .0010 | .0017 |
| 1451 | .166 | 1942 | 10.03 | -.00 | 100413 | .9928 | -1.0858 | .0286 | -.0036 | .0019 | .0021 |
| 1452 | .166 | 1945 | 12.11 | -.00 | 100410 | 1.1144 | -1.0181 | .0719 | -.0037 | -.0004 | .0126 |
| 1453 | .166 | 1929 | 14.20 | -.00 | 100423 | 1.2650 | -1.0284 | .1016 | -.0035 | .0002 | .0166 |
| 1454 | .166 | 1935 | 16.19 | -.00 | 100420 | 1.4235 | -1.0210 | .1098 | -.0038 | .0003 | .0174 |
| 1455 | .166 | 1939 | 18.20 | -.00 | 100413 | 1.5798 | -1.0203 | .1235 | -.0047 | .0004 | .0110 |
| 1456 | .166 | 1935 | 20.19 | -.00 | 100416 | 1.7630 | -1.0316 | .1534 | -.0040 | .0001 | .0090 |
| 1457 | .166 | 1935 | 21.81 | -.00 | 100416 | 1.9096 | -1.0400 | .1797 | -.0036 | .0000 | .0030 |
| 1458 | .166 | 1929 | .03 | -.00 | 100420 | .2604 | -1.0089 | -.1266 | -.0034 | -.0007 | .0008 |

TEST 995 RUN 88

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1443 | .0075 | 0.0000 | .9768 | 4.4582 | 0.0000 | 0.0000 | 0.0000 | .0225 | .0072 |
| 1444 | .0104 | 21.3208 | 2.0001 | 6.3001 | 1.1036 | 1.1160 | 0.0000 | -.9674 | .0260 |
| 1445 | -1.8556 | 21.3490 | 2.0058 | 6.3304 | 1.1062 | 1.1187 | 0.0000 | -.9724 | .0260 |
| 1446 | .0499 | 21.3917 | 2.0168 | 6.3303 | 1.1065 | 1.1189 | 0.0000 | -.9802 | .0261 |
| 1447 | 1.9629 | 21.4055 | 2.0210 | 6.3377 | 1.1077 | 1.1201 | 0.0000 | -.9836 | .0261 |
| 1448 | 3.9170 | 21.4141 | 2.0269 | 6.3484 | 1.1145 | 1.1270 | 0.0000 | -.9910 | .0262 |
| 1449 | 5.9152 | 20.5459 | 1.9523 | 6.2141 | 1.0472 | 1.0589 | 0.0000 | -.9211 | .0248 |
| 1450 | 7.9381 | 20.7056 | 1.9661 | 6.2390 | 1.0490 | 1.0608 | 0.0000 | -.9191 | .0251 |
| 1451 | 10.0286 | 21.9497 | 2.0902 | 6.4623 | 1.1600 | 1.1731 | 0.0000 | -1.0348 | .0278 |
| 1452 | 12.1104 | 21.0622 | 2.0088 | 6.3159 | 1.0831 | 1.0953 | 0.0000 | -.9492 | .0253 |
| 1453 | 14.2034 | 21.0935 | 2.0150 | 6.3269 | 1.0966 | 1.1089 | 0.0000 | -.9551 | .0252 |
| 1454 | 16.1918 | 21.1865 | 2.0244 | 6.3439 | 1.1005 | 1.1128 | 0.0000 | -.9516 | .0252 |
| 1455 | 18.2033 | 21.2155 | 2.0300 | 6.3540 | 1.1013 | 1.1136 | 0.0000 | -.9448 | .0257 |
| 1456 | 20.1914 | 21.3110 | 2.0389 | 6.3700 | 1.1109 | 1.1233 | 0.0000 | -.9431 | .0269 |
| 1457 | 21.8129 | 21.3453 | 2.0457 | 6.3823 | 1.1144 | 1.1269 | 0.0000 | -.9391 | .0273 |
| 1458 | .0313 | 21.4525 | 2.0577 | 6.4038 | 1.1261 | 1.1408 | 0.0000 | -1.0266 | .0268 |

TEST 995 RUN 88

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1443 | .0075 | .1377 | .0564 | -.0329 | .1377 | .0268 | -.0329 | .1377 | .0493 | -.0329 | 1.0000 |
| 1444 | .0104 | .2585 | -.9878 | -.1246 | .2583 | .0898 | -.0001 | .2585 | -1.8969 | -.1340 | 1.2000 |
| 1445 | -1.8556 | .0864 | -.9911 | -.1547 | .1222 | .0886 | -.0299 | .0838 | -1.0975 | -.1638 | 1.2000 |
| 1446 | .0499 | .2605 | -.9912 | -.1254 | .2596 | .0892 | -.0006 | .2606 | -1.0975 | -.1345 | 1.2000 |
| 1447 | 1.9629 | .4312 | -.9862 | -.0950 | .3933 | .0948 | .0300 | .4340 | -1.0912 | -.1039 | 1.2000 |
| 1448 | 3.9170 | .6068 | -.9760 | -.0628 | .5298 | .1096 | .0630 | .6109 | -1.0743 | -.0709 | 1.2000 |
| 1449 | 5.9152 | .7736 | -.8848 | -.0240 | .6657 | .1320 | .0941 | .7879 | -1.0484 | -.0398 | 1.2000 |
| 1450 | 7.9381 | .9525 | -.8518 | .0118 | .8076 | .1621 | .1302 | .9715 | -1.0132 | -.0037 | 1.2000 |
| 1451 | 10.0286 | 1.1669 | -.8963 | .0286 | .9647 | .2182 | .1595 | 1.1714 | -.9503 | .0256 | 1.2000 |
| 1452 | 12.1104 | 1.3032 | -.7616 | .0719 | 1.0760 | .2721 | .1941 | 1.3250 | -.8881 | .0602 | 1.2000 |
| 1453 | 14.2034 | 1.4787 | -.6866 | .1016 | 1.2096 | .3513 | .2253 | 1.5008 | -.7991 | .0914 | 1.2000 |
| 1454 | 16.1918 | 1.6517 | -.5836 | .1098 | 1.3449 | .4488 | .2339 | 1.6758 | -.6915 | .1000 | 1.2000 |
| 1455 | 18.2033 | 1.8195 | -.4757 | .1235 | 1.4755 | .5447 | .2478 | 1.8462 | -.5826 | .1139 | 1.2000 |
| 1456 | 20.1914 | 2.0108 | -.3597 | .1534 | 1.6273 | .6560 | .2787 | 2.0369 | -.4577 | .1448 | 1.2000 |
| 1457 | 21.8129 | 2.1595 | -.2559 | .1797 | 1.7454 | .7515 | .3055 | 2.1863 | -.3502 | .1716 | 1.2000 |
| 1458 | .0313 | .2609 | -1.0088 | -.1266 | .2603 | .0925 | .0007 | .2609 | -1.0942 | -.1332 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 89

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1459 | .166 | 1932 | .03 | .00 | 100416 | .3424 | -1.4706 | -.2027 | -.0047 | -.0025 | .0009 |
| 1460 | .167 | 1955 | -1.85 | .00 | 100396 | .2000 | -1.4599 | -.2296 | -.0044 | -.0026 | .0023 |
| 1461 | .166 | 1929 | .06 | -.00 | 100420 | .3524 | -1.4964 | -.2051 | -.0040 | -.0030 | .0053 |
| 1462 | .166 | 1929 | 1.98 | -.00 | 100420 | .4906 | -1.5117 | -.1769 | -.0045 | -.0019 | .0031 |
| 1463 | .166 | 1939 | 3.93 | .00 | 100409 | .6017 | -1.3873 | -.1164 | -.0052 | -.0025 | .0029 |
| 1464 | .166 | 1935 | 5.94 | .00 | 100416 | .7464 | -1.4068 | -.0833 | -.0050 | -.0028 | .0023 |
| 1465 | .166 | 1935 | 7.95 | -.00 | 100420 | .9053 | -1.4372 | -.0514 | -.0041 | -.0035 | .0089 |
| 1466 | .166 | 1942 | 10.03 | .00 | 100413 | 1.0817 | -1.5816 | -.0529 | -.0041 | -.0023 | .0082 |
| 1467 | .165 | 1925 | 12.14 | .00 | 100433 | 1.2062 | -1.4813 | -.0045 | -.0046 | -.0022 | .0126 |
| 1468 | .165 | 1925 | 14.21 | -.00 | 100430 | 1.3235 | -1.4065 | .0403 | -.0038 | -.0017 | .0181 |
| 1469 | .166 | 1929 | 16.20 | .00 | 100426 | 1.4736 | -1.3456 | .0640 | -.0031 | -.0012 | .0125 |
| 1470 | .166 | 1929 | 18.20 | -.00 | 100426 | 1.6409 | -1.3496 | .0807 | -.0051 | -.0022 | .0202 |
| 1471 | .166 | 1945 | 20.21 | .00 | 100406 | 1.8456 | -1.4055 | .0853 | -.0056 | -.0022 | .0049 |
| 1472 | .166 | 1939 | 21.81 | .00 | 100413 | 2.0062 | -1.4725 | .0969 | -.0048 | -.0019 | -.0019 |
| 1473 | .166 | 1939 | .04 | .00 | 100406 | .3470 | -1.4992 | -.2069 | -.0042 | -.0029 | .0008 |

TEST 995 RUN 89

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1459 | .0286 | 26.8487 | 2.6042 | 7.3875 | 1.5969 | 1.6149 | 0.0000 | -1.5543 | .0333 |
| 1460 | -1.8547 | 26.9433 | 2.6166 | 7.4099 | 1.5872 | 1.6050 | 0.0000 | -1.5467 | .0333 |
| 1461 | .0617 | 27.1030 | 2.6307 | 7.4352 | 1.6211 | 1.6394 | 0.0000 | -1.5828 | .0338 |
| 1462 | 1.9809 | 27.2830 | 2.6524 | 7.4743 | 1.6393 | 1.6577 | 0.0000 | -1.6029 | .0339 |
| 1463 | 3.9333 | 25.7863 | 2.5071 | 7.2128 | 1.5016 | 1.5185 | 0.0000 | -1.4518 | .0324 |
| 1464 | 5.9351 | 25.8373 | 2.5093 | 7.2168 | 1.5082 | 1.5251 | 0.0000 | -1.4521 | .0324 |
| 1465 | 7.9489 | 26.0490 | 2.5298 | 7.2522 | 1.5258 | 1.5422 | 0.0000 | -1.4648 | .0322 |
| 1466 | 10.0259 | 27.7028 | 2.6940 | 7.5491 | 1.6649 | 1.6836 | 0.0000 | -1.6079 | .0336 |
| 1467 | 12.1368 | 26.3887 | 2.5577 | 7.3038 | 1.5617 | 1.5792 | 0.0000 | -1.4809 | .0316 |
| 1468 | 14.2092 | 25.5608 | 2.4771 | 7.1589 | 1.4896 | 1.5063 | 0.0000 | -1.3924 | .0307 |
| 1469 | 16.1978 | 24.9981 | 2.4214 | 7.0585 | 1.4384 | 1.4545 | 0.0000 | -1.3250 | .0301 |
| 1470 | 18.1956 | 25.0461 | 2.4285 | 7.0713 | 1.4428 | 1.4590 | 0.0000 | -1.3173 | .0305 |
| 1471 | 20.2142 | 25.8138 | 2.5029 | 7.2053 | 1.4974 | 1.5142 | 0.0000 | -1.3571 | .0317 |
| 1472 | 21.8080 | 26.4080 | 2.5664 | 7.3194 | 1.5549 | 1.5724 | 0.0000 | -1.4042 | .0328 |
| 1473 | .0359 | 27.2539 | 2.6501 | 7.4701 | 1.6281 | 1.6464 | 0.0000 | -1.5932 | .0341 |

TEST 995 RUN 89

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1459 | .0286 | .3431 | -1.4705 | -.2027 | .3423 | .0932 | -.0225 | .3431 | -1.3902 | -.1899 | 1.5000 |
| 1460 | -1.8547 | .1526 | -1.4656 | -.2296 | .2040 | .0875 | -.0506 | .1560 | -1.3950 | -.2179 | 1.5000 |
| 1461 | .0617 | .3540 | -1.4961 | -.2051 | .3522 | .0913 | -.0222 | .3538 | -1.3920 | -.1896 | 1.5000 |
| 1462 | 1.9809 | .5426 | -1.4938 | -.1769 | .4859 | .1105 | .0080 | .5372 | -1.3719 | -.1593 | 1.5000 |
| 1463 | 3.9333 | .6954 | -1.3428 | -.1164 | .5924 | .1229 | .0530 | .6942 | -1.3569 | -.1143 | 1.5000 |
| 1464 | 5.9351 | .8879 | -1.3220 | -.0833 | .7320 | .1456 | .0868 | .8853 | -1.3298 | -.0805 | 1.5000 |
| 1465 | 7.9489 | 1.0953 | -1.2982 | -.0514 | .8844 | .1800 | .1207 | 1.0895 | -1.2891 | -.0467 | 1.5000 |
| 1466 | 10.0259 | 1.3406 | -1.3691 | -.0529 | 1.0507 | .2367 | .1349 | 1.3089 | -1.2240 | -.0324 | 1.5000 |
| 1467 | 12.1368 | 1.4906 | -1.1946 | -.0045 | 1.1623 | .3806 | .1717 | 1.4742 | -1.1496 | .0043 | 1.5000 |
| 1468 | 14.2092 | 1.6283 | -1.0386 | .0403 | 1.2627 | .3748 | .2083 | 1.6268 | -1.0632 | .0410 | 1.5000 |
| 1469 | 16.1978 | 1.7904 | -.8812 | .0640 | 1.3892 | .4701 | .2263 | 1.8030 | -.9544 | .0589 | 1.5000 |
| 1470 | 18.1956 | 1.9802 | -.7698 | .0807 | 1.5297 | .5704 | .2435 | 1.9929 | -.8387 | .0762 | 1.5000 |
| 1471 | 20.2142 | 2.2176 | -.6812 | .0853 | 1.7002 | .6923 | .2542 | 2.2127 | -.6997 | .0869 | 1.5000 |
| 1472 | 21.8080 | 2.4096 | -.6218 | .0969 | 1.8320 | .7890 | .2723 | 2.3830 | -.5882 | .1050 | 1.5000 |
| 1473 | .0359 | .3479 | -1.4998 | -.2069 | .3469 | .0949 | -.0232 | .3478 | -1.3884 | -.1905 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 90

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1474 | .166 | 1945 | .04 | .00 | 100403 | .3855 | -1.7026 | -.2514 | -.0053 | -.0029 | -.0010 |
| 1475 | .166 | 1939 | -1.86 | .00 | 100416 | .2426 | -1.6734 | -.2783 | -.0047 | -.0026 | -.0033 |
| 1476 | .166 | 1929 | .06 | .00 | 100430 | .3933 | -1.7475 | -.2577 | -.0050 | -.0024 | .0017 |
| 1477 | .166 | 1932 | 1.98 | .00 | 100430 | .5319 | -1.7569 | -.2272 | -.0055 | -.0026 | -.0021 |
| 1478 | .166 | 1939 | 3.93 | .00 | 100423 | .6775 | -1.7649 | -.1967 | -.0061 | -.0027 | -.0071 |
| 1479 | .166 | 1942 | 5.92 | .00 | 100420 | .8118 | -1.7813 | -.1596 | -.0064 | -.0033 | -.0018 |
| 1480 | .166 | 1945 | 7.97 | .00 | 100420 | .9602 | -1.7932 | -.1204 | -.0054 | -.0034 | -.0019 |
| 1481 | .166 | 1932 | 10.01 | .00 | 100436 | 1.1137 | -1.8147 | -.0968 | -.0059 | -.0032 | -.0015 |
| 1482 | .166 | 1942 | 12.15 | .00 | 100426 | 1.2445 | -1.8110 | -.0663 | -.0052 | -.0029 | .0080 |
| 1483 | .167 | 1952 | 14.22 | .00 | 100413 | 1.3813 | -1.8005 | -.0328 | -.0053 | -.0026 | .0084 |
| 1484 | .166 | 1939 | 14.21 | .00 | 100430 | 1.3812 | -1.8132 | -.0341 | -.0050 | -.0017 | .0075 |
| 1485 | .167 | 1952 | 18.20 | .00 | 100413 | 1.7068 | -1.7931 | -.0112 | -.0065 | -.0029 | .0073 |
| 1486 | .166 | 1945 | 20.19 | .00 | 100423 | 1.8778 | -1.8060 | .0156 | -.0067 | -.0028 | .0045 |
| 1487 | .167 | 1952 | 21.82 | .00 | 100416 | 2.0385 | -1.8079 | .0373 | -.0059 | -.0029 | -.0005 |
| 1488 | .167 | 1952 | .03 | .00 | 100410 | .3862 | -1.7659 | -.2588 | -.0049 | -.0027 | -.0039 |
| 1489 | .166 | 1942 | .01 | -.00 | 100420 | .1393 | .0416 | -.0374 | -.0019 | -.0000 | .0005 |

TEST 995 RUN 90

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1474 | .0374 | 29.6050 | 2.8884 | 7.8992 | 1.8290 | 1.8496 | 0.0000 | -1.8171 | .0368 |
| 1475 | -1.8625 | 29.2533 | 2.8511 | 7.8320 | 1.8012 | 1.8215 | 0.0000 | -1.7865 | .0368 |
| 1476 | .0608 | 29.9500 | 2.9148 | 7.9467 | 1.8698 | 1.8908 | 0.0000 | -1.8587 | .0373 |
| 1477 | 1.9759 | 30.0759 | 2.9284 | 7.9712 | 1.8785 | 1.8996 | 0.0000 | -1.8676 | .0370 |
| 1478 | 3.9332 | 30.1077 | 2.9286 | 7.9714 | 1.8744 | 1.8954 | 0.0000 | -1.8580 | .0369 |
| 1479 | 5.9154 | 30.1371 | 2.9340 | 7.9811 | 1.8753 | 1.8964 | 0.0000 | -1.8544 | .0367 |
| 1480 | 7.9696 | 30.2021 | 2.9370 | 7.9865 | 1.8747 | 1.8957 | 0.0000 | -1.8461 | .0365 |
| 1481 | 10.0081 | 30.1893 | 2.9419 | 7.9953 | 1.8885 | 1.9097 | 0.0000 | -1.8532 | .0360 |
| 1482 | 12.1530 | 30.3352 | 2.9482 | 8.0068 | 1.8907 | 1.9119 | 0.0000 | -1.8361 | .0352 |
| 1483 | 14.2152 | 30.2694 | 2.9460 | 8.0027 | 1.8752 | 1.8962 | 0.0000 | -1.8091 | .0345 |
| 1484 | 14.2122 | 30.2834 | 2.9469 | 8.0044 | 1.8907 | 1.9119 | 0.0000 | -1.8227 | .0346 |
| 1485 | 18.1969 | 30.3014 | 2.9526 | 8.0147 | 1.8792 | 1.9003 | 0.0000 | -1.7790 | .0351 |
| 1486 | 20.1871 | 30.3411 | 2.9524 | 8.0143 | 1.8867 | 1.9079 | 0.0000 | -1.7636 | .0359 |
| 1487 | 21.8196 | 30.3393 | 2.9564 | 8.0215 | 1.8828 | 1.9040 | 0.0000 | -1.7419 | .0359 |
| 1488 | .0306 | 30.4022 | 2.9579 | 8.0243 | 1.8865 | 1.9077 | 0.0000 | -1.8777 | .0366 |
| 1489 | .0121 | 0.0000 | .9582 | 4.4248 | 0.0000 | 0.0000 | 0.0000 | .0403 | .0077 |

TEST 995 RUN 90

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1474 | .0374 | .3867 | -1.7024 | -.2514 | .3855 | .0899 | -.0450 | .3866 | -1.6901 | -.2458 | 1.8000 |
| 1475 | -1.8625 | .1881 | -1.6804 | -.2783 | .2466 | .0830 | -.0751 | .1888 | -1.6960 | -.2759 | 1.8000 |
| 1476 | .0608 | .3952 | -1.7470 | -.2577 | .3932 | .0854 | -.0467 | .3951 | -1.6945 | -.2476 | 1.8000 |
| 1477 | 1.9759 | .5922 | -1.7375 | -.2272 | .5274 | .1029 | -.0152 | .5888 | -1.6760 | -.2160 | 1.8000 |
| 1478 | 3.9332 | .7969 | -1.7143 | -.1967 | .6683 | .1188 | .0147 | .7904 | -1.6570 | -.1861 | 1.8000 |
| 1479 | 5.9154 | .9911 | -1.6882 | -.1596 | .7978 | .1404 | .0519 | .9813 | -1.6301 | -.1489 | 1.8000 |
| 1480 | 7.9696 | 1.1996 | -1.6428 | -.1204 | .9397 | .1773 | .0911 | 1.1865 | -1.5855 | -.1097 | 1.8000 |
| 1481 | 10.0081 | 1.4121 | -1.5935 | -.0968 | 1.0839 | .2303 | .1163 | 1.3932 | -1.5226 | -.0846 | 1.8000 |
| 1482 | 12.1530 | 1.5979 | -1.5084 | -.0663 | 1.1999 | .3047 | .1470 | 1.5746 | -1.4354 | -.0538 | 1.8000 |
| 1483 | 14.2152 | 1.7812 | -1.4062 | -.0328 | 1.3207 | .3771 | .1767 | 1.7578 | -1.3484 | -.0221 | 1.8000 |
| 1484 | 14.2122 | 1.7841 | -1.4186 | -.0341 | 1.3199 | .3796 | .1792 | 1.7569 | -1.3459 | -.0216 | 1.8000 |
| 1485 | 18.1969 | 2.1614 | -1.1705 | -.0112 | 1.5946 | .5797 | .2008 | 2.1504 | -1.1112 | .0000 | 1.8000 |
| 1486 | 20.1871 | 2.3857 | -1.0471 | .0156 | 1.7346 | .6878 | .2285 | 2.3489 | -.9828 | .0277 | 1.8000 |
| 1487 | 21.8196 | 2.5644 | -.9207 | .0373 | 1.8646 | .7914 | .2497 | 2.5262 | -.8611 | .0489 | 1.8000 |
| 1488 | .0306 | .3871 | -1.7657 | -.2588 | .3861 | .0841 | -.0460 | .3871 | -1.6959 | -.2468 | 1.8000 |
| 1489 | .0121 | .1392 | .0417 | -.0374 | .1392 | -.0063 | -.0374 | .1392 | .0340 | -.0374 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 92

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1501 | .166 | 1932 | .01 | -.00 | 100426 | .2222 | .0385 | -.0582 | -.0012 | -.0000 | -.0036 |
| 1502 | .165 | 1925 | -1.86 | .00 | 100433 | .0950 | .0395 | -.0934 | -.0014 | -.0002 | -.0033 |
| 1503 | .166 | 1942 | .04 | -.00 | 100416 | .2305 | .0393 | -.0574 | -.0013 | .0000 | -.0035 |
| 1504 | .166 | 1935 | 1.96 | .00 | 100423 | .3482 | .0346 | -.0269 | -.0021 | -.0009 | -.0145 |
| 1505 | .166 | 1939 | 3.90 | -.00 | 100420 | .4659 | .0242 | .0127 | -.0020 | -.0002 | .0003 |
| 1506 | .166 | 1939 | 5.91 | -.00 | 100420 | .6160 | .0100 | .0525 | -.0020 | -.0011 | .0031 |
| 1507 | .166 | 1932 | 7.94 | .00 | 100426 | .7447 | -.0015 | .0945 | -.0018 | -.0010 | -.0095 |
| 1508 | .165 | 1925 | 10.00 | -.00 | 100433 | .8702 | -.0073 | .1290 | -.0017 | .0001 | .0050 |
| 1509 | .166 | 1935 | 12.11 | -.00 | 100423 | .9859 | -.0114 | .1698 | -.0018 | .0007 | .0081 |
| 1510 | .166 | 1932 | 14.19 | -.00 | 100423 | 1.0954 | -.0030 | .2153 | -.0089 | .0013 | .0107 |
| 1511 | .166 | 1935 | 16.17 | -.00 | 100420 | 1.1880 | .0187 | .2394 | -.0003 | .0003 | .0099 |
| 1512 | .166 | 1942 | 18.16 | -.00 | 100413 | 1.3594 | .0317 | .2517 | -.0009 | .0010 | .0093 |
| 1513 | .167 | 1952 | 20.18 | -.00 | 100406 | 1.5001 | .0262 | .2903 | -.0003 | .0007 | .0084 |
| 1514 | .166 | 1929 | 21.80 | -.00 | 100423 | 1.6172 | .0225 | .3279 | .0008 | .0009 | .0071 |
| 1515 | .166 | 1932 | .03 | -.00 | 100423 | .2292 | .0473 | -.0575 | -.0004 | .0002 | -.0015 |

TEST 995 RUN 92

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1501 | .0142 | .4193 | .9938 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0061 | .0071 |
| 1502 | -1.8620 | 0.0000 | .9933 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0065 | .0072 |
| 1503 | .0427 | 0.0000 | .9927 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0070 | .0071 |
| 1504 | 1.9620 | 0.0000 | .9931 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0067 | .0069 |
| 1505 | 3.9028 | 0.0000 | .9927 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0070 | .0068 |
| 1506 | 5.9130 | 0.0000 | .9924 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0073 | .0066 |
| 1507 | 7.9380 | 0.0000 | .9928 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0069 | .0064 |
| 1508 | 9.9966 | 0.0000 | .9936 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0061 | .0066 |
| 1509 | 12.1065 | 0.0000 | .9920 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0075 | .0067 |
| 1510 | 14.1896 | 0.0000 | .9912 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0083 | .0066 |
| 1511 | 16.1688 | 0.0000 | .9850 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0140 | .0075 |
| 1512 | 18.1613 | 0.0000 | .9798 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0185 | .0090 |
| 1513 | 20.1761 | 0.0000 | .9792 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0187 | .0091 |
| 1514 | 21.7994 | 0.0000 | .9780 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0093 |
| 1515 | .0286 | 0.0000 | .9929 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0068 | .0068 |

TEST 995 RUN 92

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1501 | .0142 | .2221 | .0386 | -.0582 | .2221 | .0255 | -.0582 | .2221 | .0315 | -.0582 | 1.0000 |
| 1502 | -1.8620 | .0962 | .0364 | -.0934 | .0962 | .0226 | -.0934 | .0962 | .0292 | -.0934 | 1.0000 |
| 1503 | .0427 | .2304 | .0395 | -.0574 | .2304 | .0254 | -.0574 | .2304 | .0324 | -.0574 | 1.0000 |
| 1504 | 1.9620 | .3468 | .0465 | -.0269 | .3468 | .0329 | -.0269 | .3468 | .0396 | -.0269 | 1.0000 |
| 1505 | 3.9028 | .4831 | .0572 | .0127 | .4831 | .0434 | .0127 | .4831 | .0504 | .0127 | 1.0000 |
| 1506 | 5.9130 | .6117 | .0734 | .0525 | .6117 | .0595 | .0525 | .6117 | .0668 | .0525 | 1.0000 |
| 1507 | 7.9380 | .7378 | .1014 | .0945 | .7378 | .0880 | .0945 | .7378 | .0949 | .0945 | 1.0000 |
| 1508 | 9.9966 | .8582 | .1439 | .1290 | .8582 | .1312 | .1290 | .8582 | .1373 | .1290 | 1.0000 |
| 1509 | 12.1065 | .9663 | .1956 | .1698 | .9663 | .1814 | .1698 | .9663 | .1889 | .1698 | 1.0000 |
| 1510 | 14.1896 | 1.0627 | .2656 | .2153 | 1.0627 | .2507 | .2153 | 1.0627 | .2589 | .2153 | 1.0000 |
| 1511 | 16.1688 | 1.1358 | .3487 | .2394 | 1.1358 | .3273 | .2394 | 1.1358 | .3412 | .2394 | 1.0000 |
| 1512 | 18.1613 | 1.2818 | .4538 | .2517 | 1.2818 | .4263 | .2517 | 1.2818 | .4448 | .2517 | 1.0000 |
| 1513 | 20.1761 | 1.3990 | .5420 | .2903 | 1.3990 | .5141 | .2903 | 1.3990 | .5329 | .2903 | 1.0000 |
| 1514 | 21.7994 | 1.4932 | .6215 | .3279 | 1.4932 | .5924 | .3279 | 1.4932 | .6122 | .3279 | 1.0000 |
| 1515 | .0286 | .2292 | .0475 | -.0575 | .2292 | .0338 | -.0575 | .2292 | .0406 | -.0575 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 93

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1516 | .166 | 1932 | .02 | -.00 | 100433 | .2224 | .0452 | -.0543 | -.0010 | .0001 | -.0024 |
| 1517 | .166 | 1942 | .04 | -.00 | 100420 | .6255 | -.9731 | -.2877 | -.0022 | -.0001 | -.0022 |
| 1518 | .166 | 1942 | -1.84 | -.00 | 100423 | .4787 | -.9802 | -.3231 | -.0025 | -.0003 | .0016 |
| 1519 | .166 | 1945 | .07 | -.00 | 100416 | .6293 | -.9862 | -.2928 | -.0023 | -.0002 | -.0010 |
| 1520 | .166 | 1935 | 1.99 | -.00 | 100426 | .7654 | -1.0041 | -.2639 | -.0024 | -.0002 | .0020 |
| 1521 | .166 | 1939 | 3.94 | -.00 | 100426 | .9079 | -1.0170 | -.2311 | -.0048 | -.0003 | .0024 |
| 1522 | .166 | 1935 | 5.93 | -.00 | 100430 | 1.0267 | -.9598 | -.1801 | -.0027 | -.0013 | .0015 |
| 1523 | .165 | 1925 | 7.96 | -.00 | 100436 | 1.1847 | -.9876 | -.1491 | -.0019 | -.0004 | .0028 |
| 1524 | .166 | 1939 | 10.02 | -.00 | 100426 | 1.3369 | -.9858 | -.1259 | -.0017 | -.0004 | .0052 |
| 1525 | .167 | 1955 | 12.11 | -.00 | 100406 | 1.4668 | -.9815 | -.0994 | -.0015 | .0005 | .0102 |
| 1526 | .166 | 1942 | 14.21 | -.00 | 100416 | 1.6199 | -.9834 | -.0757 | .0007 | .0009 | .0110 |
| 1527 | .166 | 1935 | 16.21 | .00 | 100420 | 1.7757 | -.9769 | -.0663 | -.0022 | .0012 | .0036 |
| 1528 | .166 | 1929 | 18.19 | -.00 | 100423 | 1.9350 | -.9831 | -.0416 | -.0031 | .0014 | .0044 |
| 1529 | .166 | 1939 | 20.20 | -.00 | 100409 | 2.0983 | -.9836 | -.0085 | -.0026 | .0016 | .0026 |
| 1530 | .166 | 1935 | 21.87 | -.00 | 100416 | 2.2637 | -.9946 | .0161 | -.0019 | .0012 | -.0014 |
| 1531 | .166 | 1932 | .06 | .00 | 100420 | .6266 | -.9741 | -.2882 | -.0024 | -.0006 | -.0034 |

TEST 995 RUN 93

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1516 | .0167 | 0.0000 | .9930 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0068 | .0068 |
| 1517 | .0354 | 21.3007 | 2.0673 | 17.1000 | 1.1004 | 1.1127 | 0.0000 | -1.0289 | .0159 |
| 1518 | -1.8434 | 21.3731 | 2.0750 | 17.1000 | 1.1074 | 1.1198 | 0.0000 | -1.0358 | .0160 |
| 1519 | .0746 | 21.4250 | 2.0808 | 17.1000 | 1.1111 | 1.1236 | 0.0000 | -1.0401 | .0159 |
| 1520 | 1.9898 | 21.4694 | 2.0853 | 17.1000 | 1.1220 | 1.1346 | 0.0000 | -1.0492 | .0158 |
| 1521 | 3.9404 | 21.4887 | 2.0908 | 17.1000 | 1.1239 | 1.1365 | 0.0000 | -1.0509 | .0157 |
| 1522 | 5.9280 | 20.6221 | 2.0064 | 17.1000 | 1.0529 | 1.0647 | 0.0000 | -.9684 | .0151 |
| 1523 | 7.9583 | 20.7867 | 2.0235 | 17.1000 | 1.0737 | 1.0858 | 0.0000 | -.9857 | .0157 |
| 1524 | 10.0242 | 20.7953 | 2.0270 | 17.1000 | 1.0692 | 1.0812 | 0.0000 | -.9767 | .0160 |
| 1525 | 12.1075 | 20.8153 | 2.0280 | 17.1000 | 1.0617 | 1.0736 | 0.0000 | -.9622 | .0167 |
| 1526 | 14.2127 | 20.8758 | 2.0363 | 17.1000 | 1.0762 | 1.0883 | 0.0000 | -.9683 | .0181 |
| 1527 | 16.2064 | 20.8972 | 2.0383 | 17.1000 | 1.0816 | 1.0938 | 0.0000 | -.9644 | .0201 |
| 1528 | 18.1868 | 20.9440 | 2.0446 | 17.1000 | 1.0909 | 1.1031 | 0.0000 | -.9632 | .0216 |
| 1529 | 20.1951 | 20.9838 | 2.0444 | 17.1000 | 1.0856 | 1.0978 | 0.0000 | -.9464 | .0229 |
| 1530 | 21.8688 | 21.0673 | 2.0513 | 17.1000 | 1.0948 | 1.1071 | 0.0000 | -.9437 | .0237 |
| 1531 | .0561 | 21.1247 | 2.0586 | 17.1000 | 1.1033 | 1.1157 | 0.0000 | -1.0257 | .0159 |

TEST 995 RUN 93

| POINT | ALPHA DEG | CL | CD | CH | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1516 | .0167 | .2224 | .0452 | -.0543 | .2224 | .0316 | -.0543 | .2224 | .0385 | -.0543 | 1.0000 |
| 1517 | .0354 | .6261 | -.9727 | -.2877 | .6254 | .1117 | -.1636 | .6261 | -1.0749 | -.2974 | 1.2000 |
| 1518 | -1.8434 | .4469 | -.9951 | -.3231 | .4825 | .0957 | -.1982 | .4444 | -1.0903 | -.3321 | 1.2000 |
| 1519 | .0746 | .6265 | -.9854 | -.2928 | .6251 | .1099 | -.1675 | .6266 | -1.0768 | -.3013 | 1.2000 |
| 1520 | 1.9898 | .7998 | -.9769 | -.2639 | .7609 | .1286 | -.1373 | .8021 | -1.0573 | -.2712 | 1.2000 |
| 1521 | 3.9404 | .9756 | -.9522 | -.2311 | .8984 | .1533 | -.1043 | .9880 | -1.0305 | -.2382 | 1.2000 |
| 1522 | 5.9280 | 1.1204 | -.8487 | -.1801 | 1.0116 | .1835 | -.0613 | 1.1342 | -.9968 | -.1952 | 1.2000 |
| 1523 | 7.9583 | 1.3100 | -.8140 | -.1491 | 1.1613 | .2337 | -.0280 | 1.3256 | -.9416 | -.1619 | 1.2000 |
| 1524 | 10.0242 | 1.4881 | -.7380 | -.1259 | 1.3020 | .2989 | -.0053 | 1.5085 | -.8697 | -.1392 | 1.2000 |
| 1525 | 12.1075 | 1.6400 | -.6520 | -.0994 | 1.4173 | .3694 | .0204 | 1.6662 | -.7909 | -.1135 | 1.2000 |
| 1526 | 14.2127 | 1.8118 | -.5556 | -.0757 | 1.5475 | .4696 | .0457 | 1.8389 | -.6808 | -.0882 | 1.2000 |
| 1527 | 16.2064 | 1.9778 | -.4425 | -.0663 | 1.6759 | .5761 | .0558 | 2.0071 | -.5634 | -.0781 | 1.2000 |
| 1528 | 18.1868 | 2.1452 | -.3300 | -.0416 | 1.8047 | .6847 | .0815 | 2.1751 | -.4426 | -.0524 | 1.2000 |
| 1529 | 20.1951 | 2.3089 | -.1988 | -.0085 | 1.9341 | .7972 | .1140 | 2.3438 | -.3165 | -.0199 | 1.2000 |
| 1530 | 21.8688 | 2.4712 | -.0798 | .0161 | 2.0635 | .9124 | .1396 | 2.5055 | -.1889 | .0057 | 1.2000 |
| 1531 | .0561 | .6276 | -.9735 | -.2882 | .6265 | .1139 | -.1638 | .6277 | -1.0727 | -.2976 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 94

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1532 | .167 | 1955 | .05 | .00 | 100406 | .7735 | -1.4542 | -.4135 | -.0028 | .0000 | -.0082 |
| 1533 | .167 | 1955 | -1.83 | .00 | 100406 | .6334 | -1.4912 | -.4508 | -.0033 | .0006 | -.0096 |
| 1534 | .166 | 1935 | .09 | .00 | 100426 | .7820 | -1.5466 | -.4262 | -.0038 | .0007 | -.0106 |
| 1535 | .166 | 1942 | 2.00 | .00 | 100420 | .9160 | -1.5568 | -.3960 | -.0039 | -.0016 | -.0060 |
| 1536 | .166 | 1939 | 3.94 | .00 | 100423 | .9958 | -1.3534 | -.3099 | -.0040 | -.0021 | -.0044 |
| 1537 | .165 | 1919 | 5.95 | .00 | 100443 | 1.1500 | -1.3694 | -.2764 | -.0037 | -.0031 | -.0020 |
| 1538 | .166 | 1945 | 7.97 | .00 | 100420 | 1.2920 | -1.3584 | -.2373 | -.0032 | -.0027 | -.0054 |
| 1539 | .166 | 1949 | 10.04 | .00 | 100420 | 1.4452 | -1.3651 | -.2168 | -.0034 | -.0018 | -.0048 |
| 1540 | .166 | 1935 | 12.14 | .00 | 100433 | 1.5942 | -1.3778 | -.1924 | -.0028 | -.0012 | .0035 |
| 1541 | .166 | 1945 | 14.22 | .00 | 100423 | 1.7269 | -1.3685 | -.1685 | -.0024 | -.0008 | .0071 |
| 1542 | .166 | 1945 | 16.22 | .00 | 100423 | 1.8807 | -1.3664 | -.1632 | -.0027 | -.0009 | .0043 |
| 1543 | .167 | 1962 | 18.22 | .00 | 100403 | 2.0321 | -1.3566 | -.1355 | -.0033 | -.0004 | -.0062 |
| 1544 | .166 | 1945 | 20.22 | .00 | 100420 | 2.2133 | -1.3880 | -.1107 | -.0030 | -.0009 | -.0037 |
| 1545 | .166 | 1932 | 21.83 | .00 | 100430 | 2.3777 | -1.3972 | -.0861 | -.0018 | -.0009 | -.0100 |
| 1546 | .166 | 1942 | .06 | .00 | 100416 | .7508 | -1.3787 | -.3948 | -.0019 | -.0020 | -.0040 |

TEST 995 RUN 94

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1532 | .0533 | 26.9734 | 2.6330 | 17.1000 | 1.5893 | 1.6072 | 0.0000 | -1.5633 | .0183 |
| 1533 | -1.8339 | 27.4113 | 2.6715 | 17.1000 | 1.6247 | 1.6430 | 0.0000 | -1.5994 | .0188 |
| 1534 | .0881 | 27.8302 | 2.7115 | 17.1000 | 1.6784 | 1.6972 | 0.0000 | -1.6556 | .0186 |
| 1535 | 1.9976 | 27.9827 | 2.7237 | 17.1000 | 1.6890 | 1.7080 | 0.0000 | -1.6606 | .0186 |
| 1536 | 3.9441 | 25.4056 | 2.4739 | 17.1000 | 1.4684 | 1.4849 | 0.0000 | -1.4199 | .0177 |
| 1537 | 5.9517 | 25.2497 | 2.4553 | 17.1000 | 1.4701 | 1.4866 | 0.0000 | -1.4125 | .0179 |
| 1538 | 7.9685 | 25.2264 | 2.4578 | 17.1000 | 1.4487 | 1.4650 | 0.0000 | -1.3894 | .0182 |
| 1539 | 10.0351 | 25.3273 | 2.4655 | 17.1000 | 1.4548 | 1.4711 | 0.0000 | -1.3865 | .0188 |
| 1540 | 12.1429 | 25.4069 | 2.4736 | 17.1000 | 1.4712 | 1.4878 | 0.0000 | -1.3937 | .0199 |
| 1541 | 14.2160 | 25.4717 | 2.4837 | 17.1000 | 1.4715 | 1.4880 | 0.0000 | -1.3842 | .0218 |
| 1542 | 16.2214 | 25.6200 | 2.4929 | 17.1000 | 1.4821 | 1.4987 | 0.0000 | -1.3796 | .0245 |
| 1543 | 18.2154 | 25.6746 | 2.4982 | 17.1000 | 1.4747 | 1.4913 | 0.0000 | -1.3578 | .0266 |
| 1544 | 20.2156 | 25.7579 | 2.5065 | 17.1000 | 1.4946 | 1.5114 | 0.0000 | -1.3605 | .0287 |
| 1545 | 21.8321 | 25.7850 | 2.5110 | 17.1000 | 1.5065 | 1.5235 | 0.0000 | -1.3592 | .0301 |
| 1546 | .0566 | 25.9595 | 2.5269 | 17.1000 | 1.5149 | 1.5320 | 0.0000 | -1.4719 | .0180 |

TEST 995 RUN 94

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1532 | .0533 | .7749 | -1.4535 | -.4135 | .7734 | .1175 | -.2342 | .7748 | -1.3658 | -.4016 | 1.5000 |
| 1533 | -1.8339 | .5854 | -1.5107 | -.4508 | .6374 | .0944 | -.2675 | .5899 | -1.3882 | -.4349 | 1.5000 |
| 1534 | .0881 | .7843 | -1.5454 | -.4262 | .7818 | .1142 | -.2369 | .7840 | -1.3691 | -.4042 | 1.5000 |
| 1535 | 1.9976 | .9698 | -1.5259 | -.3960 | .9109 | .1434 | -.2855 | .9627 | -1.3390 | -.3728 | 1.5000 |
| 1536 | 3.9441 | 1.0857 | -1.2818 | -.3099 | .9847 | .1655 | -.1442 | 1.0868 | -1.3143 | -.3116 | 1.5000 |
| 1537 | 5.9517 | 1.2858 | -1.2428 | -.2764 | 1.1333 | .2014 | -.1106 | 1.2871 | -1.2739 | -.2779 | 1.5000 |
| 1538 | 7.9685 | 1.4678 | -1.1662 | -.2373 | 1.2670 | .2504 | -.0738 | 1.4726 | -1.2186 | -.2412 | 1.5000 |
| 1539 | 10.0351 | 1.6609 | -1.0924 | -.2160 | 1.4074 | .3212 | -.0519 | 1.6659 | -1.1394 | -.2193 | 1.5000 |
| 1540 | 12.1429 | 1.8483 | -1.0117 | -.1924 | 1.5388 | .4868 | -.0264 | 1.8509 | -1.0434 | -.1937 | 1.5000 |
| 1541 | 14.2160 | 2.0101 | -.9025 | -.1685 | 1.6488 | .5021 | -.0025 | 2.0131 | -.9358 | -.1698 | 1.5000 |
| 1542 | 16.2214 | 2.1875 | -.7867 | -.1632 | 1.7735 | .6119 | .0040 | 2.1879 | -.8124 | -.1634 | 1.5000 |
| 1543 | 18.2154 | 2.3543 | -.6534 | -.1355 | 1.8933 | .7209 | .0388 | 2.3578 | -.6881 | -.1365 | 1.5000 |
| 1544 | 20.2156 | 2.5538 | -.5302 | -.1107 | 2.0373 | .8437 | .0579 | 2.5499 | -.5483 | -.1094 | 1.5000 |
| 1545 | 21.8321 | 2.7268 | -.4127 | -.0861 | 2.1665 | .9557 | .0839 | 2.7182 | -.4213 | -.0835 | 1.5000 |
| 1546 | .0566 | .7521 | -1.3779 | -.3948 | .7506 | .1190 | -.2239 | .7521 | -1.3643 | -.3912 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 95

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1547 | .166 | 1932 | .06 | .00 | 100423 | .8196 | -1.7267 | -.4686 | -.0028 | -.0016 | -.0117 |
| 1548 | .166 | 1935 | -1.83 | .00 | 100420 | .6817 | -1.7299 | -.4939 | -.0035 | -.0016 | -.0123 |
| 1549 | .167 | 1955 | .08 | .00 | 100399 | .8212 | -1.7159 | -.4602 | -.0025 | -.0004 | -.0148 |
| 1550 | .166 | 1929 | 2.00 | -.00 | 100426 | .9612 | -1.7498 | -.4347 | -.0014 | .0012 | .0159 |
| 1551 | .167 | 1955 | 3.95 | .00 | 100403 | 1.0944 | -1.7380 | -.3987 | -.0032 | -.0005 | -.0144 |
| 1552 | .166 | 1942 | 5.93 | .00 | 100420 | 1.2432 | -1.7659 | -.3669 | -.0034 | -.0013 | -.0117 |
| 1553 | .166 | 1929 | 7.97 | .00 | 100433 | 1.3957 | -1.7898 | -.3332 | -.0022 | -.0010 | -.0108 |
| 1554 | .167 | 1958 | 10.04 | .00 | 100410 | 1.5353 | -1.7674 | -.3035 | -.0035 | -.0002 | -.0085 |
| 1555 | .166 | 1945 | 12.13 | .00 | 100420 | 1.6795 | -1.7886 | -.2797 | -.0029 | -.0001 | -.0085 |
| 1556 | .166 | 1929 | 14.23 | .00 | 100436 | 1.8001 | -1.7887 | -.2494 | -.0023 | .0010 | .0000 |
| 1557 | .165 | 1919 | 16.19 | .00 | 100450 | 1.9420 | -1.7844 | -.2427 | -.0031 | .0009 | -.0027 |
| 1558 | .166 | 1935 | 18.19 | .00 | 100433 | 2.0991 | -1.7668 | -.2124 | -.0034 | .0010 | -.0078 |
| 1559 | .165 | 1925 | 20.19 | .00 | 100448 | 2.2787 | -1.7793 | -.1831 | -.0035 | .0009 | -.0085 |
| 1560 | .166 | 1939 | 21.85 | .00 | 100426 | 2.4311 | -1.7729 | -.1512 | -.0016 | .0010 | -.0183 |
| 1561 | .167 | 1952 | .06 | .00 | 100410 | .8257 | -1.7369 | -.4655 | -.0026 | .0001 | -.0166 |
| 1562 | .169 | 2005 | .03 | -.00 | 100356 | .1814 | .0285 | -.0526 | -.0016 | -.0001 | -.0020 |

TEST 995 RUN 95

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1547 | .0573 | 29.7878 | 2.9032 | 17.1000 | 1.8581 | 1.8798 | 0.0000 | -1.8442 | .0193 |
| 1548 | -1.8307 | 29.9066 | 2.9114 | 17.1000 | 1.8643 | 1.8852 | 0.0000 | -1.8480 | .0195 |
| 1549 | .0811 | 29.9137 | 2.9056 | 17.1000 | 1.8435 | 1.8642 | 0.0000 | -1.8242 | .0192 |
| 1550 | 2.0008 | 29.9554 | 2.9090 | 17.1000 | 1.8722 | 1.8932 | 0.0000 | -1.8519 | .0191 |
| 1551 | 3.9494 | 29.9522 | 2.9121 | 17.1000 | 1.8487 | 1.8694 | 0.0000 | -1.8261 | .0189 |
| 1552 | 5.9282 | 30.0190 | 2.9106 | 17.1000 | 1.8637 | 1.8846 | 0.0000 | -1.8320 | .0191 |
| 1553 | 7.9722 | 30.0310 | 2.9145 | 17.1000 | 1.8794 | 1.9006 | 0.0000 | -1.8405 | .0195 |
| 1554 | 10.0352 | 30.0746 | 2.9191 | 17.1000 | 1.8548 | 1.8748 | 0.0000 | -1.8062 | .0200 |
| 1555 | 12.1298 | 30.0711 | 2.9170 | 17.1000 | 1.8657 | 1.8867 | 0.0000 | -1.8037 | .0213 |
| 1556 | 14.2308 | 30.1080 | 2.9250 | 17.1000 | 1.8869 | 1.9081 | 0.0000 | -1.8114 | .0238 |
| 1557 | 16.1874 | 30.0863 | 2.9217 | 17.1000 | 1.8947 | 1.9160 | 0.0000 | -1.8011 | .0272 |
| 1558 | 18.1927 | 30.1139 | 2.9195 | 17.1000 | 1.8788 | 1.8999 | 0.0000 | -1.7641 | .0297 |
| 1559 | 20.1867 | 30.1010 | 2.9192 | 17.1000 | 1.8867 | 1.9079 | 0.0000 | -1.7517 | .0320 |
| 1560 | 21.8496 | 30.1193 | 2.9198 | 17.1000 | 1.8752 | 1.8963 | 0.0000 | -1.7201 | .0334 |
| 1561 | .0649 | 30.1130 | 2.9188 | 17.1000 | 1.8617 | 1.8826 | 0.0000 | -1.8402 | .0193 |
| 1562 | .0307 | .4763 | .9761 | 17.1000 | 0.0000 | 0.0000 | 0.0000 | .0223 | .0069 |

TEST 995 RUN 95

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1547 | .0573 | .8213 | -1.7259 | -.4606 | .8194 | .1129 | -.2589 | .8212 | -1.6671 | -.4517 | 1.8000 |
| 1548 | -1.8307 | .6261 | -1.7508 | -.4939 | .6856 | .0930 | -.2836 | .6288 | -1.6861 | -.4844 | 1.8000 |
| 1549 | .0811 | .8236 | -1.7147 | -.4602 | .8210 | .1096 | -.2522 | .8235 | -1.6704 | -.4530 | 1.8000 |
| 1550 | 2.0008 | 1.0217 | -1.7151 | -.4347 | .9563 | .1368 | -.2235 | 1.0185 | -1.6421 | -.4243 | 1.8000 |
| 1551 | 3.9494 | 1.2115 | -1.6585 | -.3987 | 1.0842 | .1669 | -.1902 | 1.2068 | -1.6088 | -.3910 | 1.8000 |
| 1552 | 5.9282 | 1.4189 | -1.6281 | -.3669 | 1.2264 | .2066 | -.1567 | 1.4103 | -1.5639 | -.3575 | 1.8000 |
| 1553 | 7.9722 | 1.6304 | -1.5790 | -.3332 | 1.3697 | .2628 | -.1211 | 1.6166 | -1.5080 | -.3220 | 1.8000 |
| 1554 | 10.0352 | 1.8198 | -1.4729 | -.3035 | 1.4967 | .3328 | -.0943 | 1.8069 | -1.4200 | -.2951 | 1.8000 |
| 1555 | 12.1298 | 2.0162 | -1.3879 | -.2797 | 1.6242 | .4149 | -.0692 | 1.9982 | -1.3254 | -.2700 | 1.8000 |
| 1556 | 14.2308 | 2.1846 | -1.2912 | -.2494 | 1.7207 | .5139 | -.0365 | 2.1583 | -1.2114 | -.2374 | 1.8000 |
| 1557 | 16.1874 | 2.3625 | -1.1722 | -.2427 | 1.8343 | .6202 | -.0290 | 2.3305 | -1.0893 | -.2298 | 1.8000 |
| 1558 | 18.1927 | 2.5458 | -1.0231 | -.2124 | 1.9592 | .7320 | -.0085 | 2.5158 | -.9590 | -.2013 | 1.8000 |
| 1559 | 20.1867 | 2.7527 | -.8836 | -.1831 | 2.1016 | .8551 | .0297 | 2.7159 | -.8156 | -.1711 | 1.8000 |
| 1560 | 21.8496 | 2.9163 | -.7488 | -.1512 | 2.2184 | .9663 | .0604 | 2.8808 | -.6859 | -.1404 | 1.8000 |
| 1561 | .0649 | .8277 | -1.7360 | -.4655 | .8256 | .1064 | -.2555 | .8276 | -1.6736 | -.4563 | 1.8000 |
| 1562 | .0307 | .1814 | .0286 | -.0526 | .1814 | -.0006 | -.0526 | .1814 | .0217 | -.0526 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 97

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1586 | .165 | 1916 | .02 | -.00 | 100365 | .2696 | .0564 | -.0677 | -.0006 | .0001 | -.0029 |
| 1587 | .166 | 1929 | -1.86 | .00 | 100352 | .1413 | .0595 | -.1030 | -.0011 | .0001 | -.0056 |
| 1588 | .167 | 1952 | .04 | -.00 | 100328 | .2739 | .0579 | -.0659 | -.0008 | .0001 | -.0030 |
| 1589 | .166 | 1939 | 1.97 | -.00 | 100342 | .4035 | .0530 | -.0327 | -.0010 | .0001 | -.0029 |
| 1590 | .166 | 1929 | 3.91 | -.00 | 100352 | .5328 | .0424 | .0018 | -.0012 | .0006 | .0052 |
| 1591 | .166 | 1929 | 5.90 | -.00 | 100352 | .6583 | .0273 | .0439 | -.0012 | -.0010 | .0025 |
| 1592 | .165 | 1909 | 7.91 | -.00 | 100372 | .7834 | .0170 | .0845 | -.0007 | -.0005 | -.0000 |
| 1593 | .165 | 1922 | 9.96 | -.00 | 100358 | .9112 | .0096 | .1217 | -.0013 | -.0006 | .0035 |
| 1594 | .167 | 1952 | 12.11 | -.00 | 100328 | 1.0214 | .0077 | .1609 | -.0012 | -.0001 | .0011 |
| 1595 | .167 | 1949 | 14.17 | -.00 | 100332 | 1.1254 | .0138 | .2039 | -.0007 | .0002 | -.0003 |
| 1596 | .167 | 1952 | 16.16 | .00 | 100328 | 1.2221 | .0363 | .2301 | -.0004 | -.0004 | -.0002 |
| 1597 | .165 | 1902 | 18.16 | -.00 | 100379 | 1.3776 | .0518 | .2479 | -.0009 | -.0002 | .0021 |
| 1598 | .166 | 1932 | 20.15 | -.00 | 100348 | 1.5033 | .0446 | .2935 | -.0005 | .0001 | .0014 |
| 1599 | .166 | 1935 | 21.83 | -.00 | 100345 | 1.6092 | .0390 | .3317 | .0010 | .0003 | .0024 |
| 1600 | .166 | 1932 | .04 | -.00 | 100348 | .2744 | .0670 | -.0656 | -.0006 | -.0001 | -.0029 |

TEST 995 RUN 97

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1586 | .0210 | 0.0000 | .9811 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0184 | .0079 |
| 1587 | -1.8639 | 0.0000 | .9814 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0181 | .0080 |
| 1588 | .0379 | 0.0000 | .9815 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0177 | .0078 |
| 1589 | 1.9697 | 0.0000 | .9824 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0178 | .0077 |
| 1590 | 3.9053 | 0.0000 | .9812 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0181 | .0076 |
| 1591 | 5.9006 | 0.0000 | .9818 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0175 | .0073 |
| 1592 | 7.9129 | 0.0000 | .9830 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0165 | .0072 |
| 1593 | 9.9635 | 0.0000 | .9826 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0166 | .0071 |
| 1594 | 12.1065 | 0.0000 | .9810 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0178 | .0074 |
| 1595 | 14.1717 | 0.0000 | .9806 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0179 | .0071 |
| 1596 | 16.1610 | 0.0000 | .9748 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0083 |
| 1597 | 18.1618 | 0.0000 | .9707 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0273 | .0097 |
| 1598 | 20.1506 | 0.0000 | .9696 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0277 | .0099 |
| 1599 | 21.8307 | 0.0000 | .9683 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0285 | .0101 |
| 1600 | .0400 | 0.0000 | .9822 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0172 | .0079 |

TEST 995 RUN 97

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1586 | .0210 | .2695 | .0564 | -.0677 | .2695 | .0382 | -.0677 | .2695 | .0486 | -.0677 | 1.0000 |
| 1587 | -1.8639 | .1431 | .0549 | -.1038 | .1431 | .0288 | -.1038 | .1431 | .0469 | -.1030 | 1.0000 |
| 1588 | .0379 | .2738 | .0581 | -.0659 | .2738 | .0325 | -.0659 | .2738 | .0503 | -.0659 | 1.0000 |
| 1589 | 1.9697 | .4015 | .0669 | -.0327 | .4015 | .0422 | -.0327 | .4015 | .0591 | -.0327 | 1.0000 |
| 1590 | 3.9053 | .5287 | .0786 | .0018 | .5287 | .0528 | .0018 | .5287 | .0710 | .0018 | 1.0000 |
| 1591 | 5.9006 | .6520 | .0948 | .0439 | .6520 | .0700 | .0439 | .6520 | .0876 | .0439 | 1.0000 |
| 1592 | 7.9129 | .7736 | .1247 | .0845 | .7736 | .1010 | .0845 | .7736 | .1175 | .0845 | 1.0000 |
| 1593 | 9.9635 | .8958 | .1671 | .1217 | .8958 | .1434 | .1217 | .8958 | .1680 | .1217 | 1.0000 |
| 1594 | 12.1065 | .9970 | .2217 | .1609 | .9970 | .1965 | .1609 | .9970 | .2143 | .1609 | 1.0000 |
| 1595 | 14.1717 | 1.0880 | .2881 | .2039 | 1.0880 | .2631 | .2039 | 1.0880 | .2810 | .2039 | 1.0000 |
| 1596 | 16.1610 | 1.1637 | .3750 | .2301 | 1.1637 | .3434 | .2301 | 1.1637 | .3667 | .2301 | 1.0000 |
| 1597 | 18.1618 | 1.2931 | .4778 | .2479 | 1.2931 | .4408 | .2479 | 1.2931 | .4681 | .2479 | 1.0000 |
| 1598 | 20.1506 | 1.3959 | .5598 | .2935 | 1.3959 | .5222 | .2935 | 1.3959 | .5498 | .2935 | 1.0000 |
| 1599 | 21.8307 | 1.4793 | .6346 | .3317 | 1.4793 | .5961 | .3317 | 1.4793 | .6246 | .3317 | 1.0000 |
| 1600 | .0400 | .2744 | .0672 | -.0656 | .2744 | .0420 | -.0656 | .2744 | .0593 | -.0656 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 98

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1601 | .166 | 1935 | .03 | .00 | 100345 | .2648 | .0635 | -.0625 | -.0006 | -.0002 | -.0041 |
| 1602 | .167 | 1958 | .05 | .00 | 100328 | .7891 | -.9268 | -.3537 | -.0014 | .0003 | -.0060 |
| 1603 | .167 | 1952 | -1.81 | -.00 | 100345 | .6519 | -.9254 | -.3854 | -.0015 | .0001 | -.0032 |
| 1604 | .166 | 1939 | .08 | -.00 | 100349 | .7936 | -.9346 | -.3563 | -.0017 | .0002 | -.0037 |
| 1605 | .166 | 1939 | 1.98 | .00 | 100349 | .9294 | -.9447 | -.3250 | -.0014 | .0003 | -.0063 |
| 1606 | .166 | 1942 | 3.94 | .00 | 100345 | 1.0730 | -.9568 | -.2928 | -.0019 | -.0002 | -.0041 |
| 1607 | .165 | 1922 | 5.95 | .00 | 100365 | 1.2259 | -.9835 | -.2610 | -.0012 | -.0013 | -.0038 |
| 1608 | .165 | 1916 | 7.93 | .00 | 100372 | 1.3784 | -.9943 | -.2290 | -.0010 | -.0003 | -.0049 |
| 1609 | .166 | 1945 | 10.05 | .00 | 100342 | 1.5179 | -.9884 | -.2034 | -.0009 | -.0001 | -.0040 |
| 1610 | .165 | 1916 | 12.14 | -.00 | 100365 | 1.6599 | -1.0070 | -.1805 | -.0009 | .0003 | .0003 |
| 1611 | .166 | 1939 | 14.20 | .00 | 100342 | 1.7898 | -.9875 | -.1509 | -.0011 | .0005 | -.0034 |
| 1612 | .166 | 1942 | 16.22 | .00 | 100338 | 1.9274 | -.9776 | -.1315 | -.0022 | .0004 | -.0028 |
| 1613 | .166 | 1932 | 18.21 | -.00 | 100348 | 2.0745 | -.9795 | -.1020 | -.0017 | .0007 | -.0015 |
| 1614 | .166 | 1932 | 20.20 | .00 | 100348 | 2.2380 | -.9848 | -.0657 | -.0016 | .0012 | -.0058 |
| 1615 | .166 | 1942 | 21.67 | -.00 | 100335 | 2.3668 | -.9845 | -.0368 | -.0010 | .0015 | -.0021 |
| 1616 | .167 | 1962 | .06 | -.00 | 100312 | .7989 | -.9563 | -.3623 | -.0015 | .0002 | -.0036 |

TEST 995 RUN 98

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1601 | .0280 | 0.0000 | .9824 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0170 | .0079 |
| 1602 | .0541 | 21.5722 | 2.0783 | 22.2000 | 1.1123 | 1.1248 | 0.0000 | -1.0298 | .0136 |
| 1603 | -1.8119 | 21.4829 | 2.0732 | 22.2000 | 1.1116 | 1.1241 | 0.0000 | -1.0281 | .0136 |
| 1604 | .0794 | 21.4332 | 2.0723 | 22.2000 | 1.1166 | 1.1291 | 0.0000 | -1.0347 | .0136 |
| 1605 | 1.9846 | 21.4513 | 2.0767 | 22.2000 | 1.1194 | 1.1320 | 0.0000 | -1.0384 | .0137 |
| 1606 | 3.9369 | 21.4678 | 2.0764 | 22.2000 | 1.1160 | 1.1306 | 0.0000 | -1.0345 | .0137 |
| 1607 | 5.9457 | 21.4762 | 2.0778 | 22.2000 | 1.1307 | 1.1434 | 0.0000 | -1.0435 | .0138 |
| 1608 | 7.9265 | 21.4877 | 2.0783 | 22.2000 | 1.1367 | 1.1495 | 0.0000 | -1.0433 | .0141 |
| 1609 | 10.0524 | 21.5269 | 2.0819 | 22.2000 | 1.1231 | 1.1357 | 0.0000 | -1.0244 | .0146 |
| 1610 | 12.1356 | 21.5353 | 2.0873 | 22.2000 | 1.1431 | 1.1559 | 0.0000 | -1.0383 | .0154 |
| 1611 | 14.2045 | 21.5770 | 2.0878 | 22.2000 | 1.1314 | 1.1441 | 0.0000 | -1.0175 | .0173 |
| 1612 | 16.2169 | 21.5997 | 2.0896 | 22.2000 | 1.1314 | 1.1441 | 0.0000 | -1.0078 | .0197 |
| 1613 | 18.2133 | 21.6084 | 2.0897 | 22.2000 | 1.1381 | 1.1509 | 0.0000 | -1.0023 | .0217 |
| 1614 | 20.2021 | 21.6340 | 2.0933 | 22.2000 | 1.1404 | 1.1532 | 0.0000 | -.9935 | .0235 |
| 1615 | 21.6707 | 21.6497 | 2.0958 | 22.2000 | 1.1370 | 1.1498 | 0.0000 | -.9808 | .0246 |
| 1616 | .0569 | 21.6953 | 2.1000 | 22.2000 | 1.1287 | 1.1414 | 0.0000 | -1.0485 | .0137 |

TEST 995 RUN 98

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1601 | .0280 | .2648 | .0636 | -.0625 | .2648 | .0387 | -.0625 | .2648 | .0557 | -.0625 | 1.0000 |
| 1602 | .0541 | .7900 | -.9260 | -.3537 | .7898 | .1727 | -.2282 | .7901 | -1.0139 | -.3621 | 1.2000 |
| 1603 | -1.8119 | .6224 | -.9455 | -.3854 | .6575 | .1520 | -.2688 | .6280 | -1.0341 | -.3939 | 1.2000 |
| 1604 | .0794 | .7949 | -.9335 | -.3563 | .7934 | .1694 | -.2304 | .7950 | -1.0172 | -.3642 | 1.2000 |
| 1605 | 1.9846 | .9615 | -.9119 | -.3250 | .9228 | .1931 | -.1987 | .9639 | -.9928 | -.3326 | 1.2000 |
| 1606 | 3.9369 | 1.1361 | -.8801 | -.2928 | 1.0594 | .2216 | -.1658 | 1.1408 | -.9622 | -.2997 | 1.2000 |
| 1607 | 5.9457 | 1.3212 | -.8512 | -.2610 | 1.2041 | .2595 | -.1334 | 1.3270 | -.9207 | -.2673 | 1.2000 |
| 1608 | 7.9265 | 1.5024 | -.7947 | -.2290 | 1.3456 | .3170 | -.1008 | 1.5092 | -.8583 | -.2347 | 1.2000 |
| 1609 | 10.0524 | 1.6672 | -.7083 | -.2034 | 1.4711 | .3838 | -.0767 | 1.6782 | -.7854 | -.2105 | 1.2000 |
| 1610 | 12.1356 | 1.8345 | -.6356 | -.1805 | 1.5942 | .4665 | -.0516 | 1.8437 | -.6936 | -.1854 | 1.2000 |
| 1611 | 14.2045 | 1.9774 | -.5181 | -.1509 | 1.6998 | .5614 | -.0233 | 1.9909 | -.5890 | -.1571 | 1.2000 |
| 1612 | 16.2169 | 2.1237 | -.4004 | -.1315 | 1.8077 | .6662 | -.0039 | 2.1391 | -.4733 | -.1377 | 1.2000 |
| 1613 | 18.2133 | 2.2767 | -.2820 | -.1020 | 1.9210 | .7774 | .0264 | 2.2919 | -.3498 | -.1075 | 1.2000 |
| 1614 | 20.2021 | 2.4404 | -.1514 | -.0657 | 2.0466 | .8954 | .0629 | 2.4564 | -.2183 | -.0709 | 1.2000 |
| 1615 | 21.6707 | 2.5630 | -.0410 | -.0368 | 2.1432 | .9911 | .0915 | 2.5814 | -.1117 | -.0424 | 1.2000 |
| 1616 | .0569 | .7998 | -.9555 | -.3623 | .7987 | .1595 | -.2349 | .7999 | -1.0272 | -.3688 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 99

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1617 | .167 | 1965 | .05 | .00 | 100301 | .9342 | -1.3862 | -.4752 | -.0019 | .0012 | -.0144 |
| 1618 | .167 | 1949 | -1.80 | .00 | 100318 | .8071 | -1.4041 | -.5877 | -.0023 | .0012 | -.0171 |
| 1619 | .167 | 1949 | .08 | .00 | 100318 | .9448 | -1.4088 | -.4758 | -.0019 | .0013 | -.0154 |
| 1620 | .166 | 1939 | 2.01 | .00 | 100328 | 1.0832 | -1.4259 | -.4459 | -.0026 | .0019 | -.0278 |
| 1621 | .167 | 1955 | 3.96 | .00 | 100311 | 1.2080 | -1.4342 | -.4105 | -.0022 | .0008 | -.0088 |
| 1622 | .166 | 1942 | 5.93 | .00 | 100325 | 1.3661 | -1.4588 | -.3777 | -.0020 | -.0000 | -.0094 |
| 1623 | .166 | 1942 | 8.01 | .00 | 100325 | 1.5152 | -1.4679 | -.3420 | -.0014 | .0007 | -.0118 |
| 1624 | .165 | 1912 | 10.05 | .00 | 100355 | 1.6661 | -1.4951 | -.3238 | -.0019 | .0013 | -.0108 |
| 1625 | .167 | 1949 | 12.14 | .00 | 100311 | 1.7797 | -1.4457 | -.2867 | -.0014 | .0014 | -.0090 |
| 1626 | .166 | 1945 | 14.21 | .00 | 100315 | 1.8923 | -1.4474 | -.2512 | -.0023 | .0012 | -.0100 |
| 1627 | .166 | 1935 | 16.21 | .00 | 100325 | 2.0378 | -1.4464 | -.2365 | -.0027 | .0016 | -.0096 |
| 1628 | .165 | 1922 | 18.19 | .00 | 100338 | 2.1823 | -1.4588 | -.2077 | -.0026 | .0020 | -.0094 |
| 1629 | .166 | 1935 | 20.21 | .00 | 100325 | 2.3396 | -1.4540 | -.1665 | -.0017 | .0024 | -.0126 |
| 1630 | .168 | 1972 | 21.85 | .00 | 100291 | 2.4751 | -1.4343 | -.1283 | -.0013 | .0026 | -.0132 |
| 1631 | .166 | 1935 | .06 | .00 | 100325 | .9454 | -1.4010 | -.4798 | -.0018 | .0011 | -.0158 |

TEST 995 RUN 99

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1617 | .0533 | 26.9228 | 2.6084 | 21.8716 | 1.5706 | 1.5863 | 0.0000 | -1.5305 | .0148 |
| 1618 | -1.8006 | 26.9815 | 2.6177 | 21.8009 | 1.5913 | 1.6092 | 0.0000 | -1.5519 | .0152 |
| 1619 | .0769 | 27.0483 | 2.6254 | 21.7430 | 1.5973 | 1.6153 | 0.0000 | -1.5600 | .0152 |
| 1620 | 2.0080 | 27.0904 | 2.6305 | 21.7040 | 1.6087 | 1.6268 | 0.0000 | -1.5721 | .0152 |
| 1621 | 3.9553 | 27.1463 | 2.6320 | 21.6932 | 1.5994 | 1.6174 | 0.0000 | -1.5572 | .0152 |
| 1622 | 5.9314 | 27.1191 | 2.6314 | 21.6972 | 1.6098 | 1.6279 | 0.0000 | -1.5628 | .0154 |
| 1623 | 8.0055 | 27.1691 | 2.6370 | 21.6553 | 1.6141 | 1.6323 | 0.0000 | -1.5612 | .0159 |
| 1624 | 10.0454 | 27.1907 | 2.6374 | 21.6520 | 1.6403 | 1.6587 | 0.0000 | -1.5774 | .0168 |
| 1625 | 12.1397 | 26.9357 | 2.6104 | 21.8560 | 1.5874 | 1.6052 | 0.0000 | -1.5110 | .0178 |
| 1626 | 14.2135 | 26.9929 | 2.6223 | 21.7664 | 1.5983 | 1.6163 | 0.0000 | -1.5119 | .0206 |
| 1627 | 16.2081 | 27.0279 | 2.6213 | 21.7738 | 1.6076 | 1.6257 | 0.0000 | -1.5045 | .0240 |
| 1628 | 18.1942 | 27.0443 | 2.6222 | 21.7673 | 1.6199 | 1.6381 | 0.0000 | -1.4997 | .0266 |
| 1629 | 20.2072 | 27.1048 | 2.6292 | 21.7142 | 1.6150 | 1.6332 | 0.0000 | -1.4775 | .0288 |
| 1630 | 21.8451 | 27.1208 | 2.6324 | 21.6897 | 1.5867 | 1.6046 | 0.0000 | -1.4368 | .0302 |
| 1631 | .0625 | 26.7841 | 2.5954 | 21.9701 | 1.5864 | 1.6043 | 0.0000 | -1.5417 | .0152 |

TEST 995 RUN 99

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1617 | .0533 | .9355 | -1.3854 | -.4752 | .9341 | .1704 | -.2980 | .9354 | -1.3129 | -.4653 | 1.5000 |
| 1618 | -1.8006 | .7625 | -1.4287 | -.5077 | .8125 | .1466 | -.3281 | .7659 | -1.3360 | -.4955 | 1.5000 |
| 1619 | .0769 | .9467 | -1.4076 | -.4758 | .9445 | .1746 | -.2956 | .9465 | -1.3088 | -.4630 | 1.5000 |
| 1620 | 2.0080 | 1.1325 | -1.3871 | -.4459 | 1.0761 | .2054 | -.2644 | 1.1281 | -1.2770 | -.4317 | 1.5000 |
| 1621 | 3.9553 | 1.3841 | -1.3474 | -.4105 | 1.1937 | .2330 | -.2301 | 1.2961 | -1.2468 | -.3974 | 1.5000 |
| 1622 | 5.9314 | 1.5095 | -1.3098 | -.3777 | 1.3432 | .2760 | -.1961 | 1.4965 | -1.1994 | -.3635 | 1.5000 |
| 1623 | 8.0055 | 1.7049 | -1.2426 | -.3420 | 1.4801 | .3480 | -.1599 | 1.6866 | -1.1289 | -.3272 | 1.5000 |
| 1624 | 10.0454 | 1.9013 | -1.1815 | -.3238 | 1.6152 | .4168 | -.1388 | 1.8740 | -1.0438 | -.3061 | 1.5000 |
| 1625 | 12.1397 | 2.0439 | -1.0391 | -.2867 | 1.7101 | .4950 | -.1076 | 2.0221 | -.9552 | -.2750 | 1.5000 |
| 1626 | 14.2135 | 2.1897 | -.9385 | -.2512 | 1.7973 | .5903 | -.0709 | 2.1615 | -.8476 | -.2382 | 1.5000 |
| 1627 | 16.2081 | 2.3605 | -.8201 | -.2365 | 1.9118 | .6996 | -.0551 | 2.3258 | -.7248 | -.2224 | 1.5000 |
| 1628 | 18.1942 | 2.5287 | -.7045 | -.2077 | 2.0229 | .8078 | -.0250 | 2.4861 | -.6014 | -.1923 | 1.5000 |
| 1629 | 20.2072 | 2.6979 | -.5564 | -.1665 | 2.1400 | .9304 | .0157 | 2.6524 | -.4616 | -.1517 | 1.5000 |
| 1630 | 21.8451 | 2.8311 | -.4104 | -.1283 | 2.2406 | 1.0323 | .0507 | 2.7926 | -.3446 | -.1166 | 1.5000 |
| 1631 | .0625 | .9470 | -1.3999 | -.4790 | .9452 | .1714 | -.3088 | .9468 | -1.3120 | -.4674 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 100

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1632 | .167 | 1952 | .05 | .00 | 100308 | 1.0094 | -1.6401 | -.5377 | -.0014 | .0014 | -.0213 |
| 1633 | .166 | 1942 | -1.81 | .00 | 100318 | .8787 | -1.6498 | -.5724 | -.0018 | .0019 | -.0251 |
| 1634 | .166 | 1939 | .08 | .00 | 100321 | 1.0200 | -1.6533 | -.5412 | -.0016 | .0012 | -.0179 |
| 1635 | .165 | 1922 | 2.00 | .00 | 100342 | 1.1667 | -1.6770 | -.5156 | -.0020 | .0015 | -.0227 |
| 1636 | .167 | 1965 | 3.94 | .00 | 100301 | 1.2812 | -1.6549 | -.4740 | -.0023 | .0012 | -.0211 |
| 1637 | .167 | 1949 | 5.97 | .00 | 100318 | 1.4461 | -1.6858 | -.4407 | -.0018 | .0002 | -.0185 |
| 1638 | .167 | 1955 | 7.99 | .00 | 100311 | 1.5805 | -1.6866 | -.4038 | -.0011 | .0007 | -.0209 |
| 1639 | .167 | 1965 | 10.04 | .00 | 100301 | 1.7221 | -1.6788 | -.3783 | -.0012 | .0015 | -.0187 |
| 1640 | .167 | 1962 | 12.13 | .00 | 100305 | 1.8434 | -1.6824 | -.3482 | -.0010 | .0019 | -.0167 |
| 1641 | .165 | 1922 | 14.25 | .00 | 100345 | 1.9759 | -1.7101 | -.3197 | -.0021 | .0013 | -.0159 |
| 1642 | .165 | 1919 | 16.23 | .00 | 100348 | 2.0920 | -1.7003 | -.3012 | -.0021 | .0017 | -.0133 |
| 1643 | .166 | 1942 | 18.26 | .00 | 100325 | 2.2296 | -1.6778 | -.2636 | -.0024 | .0016 | -.0151 |
| 1644 | .166 | 1935 | 20.21 | .00 | 100332 | 2.3963 | -1.6837 | -.2315 | -.0018 | .0028 | -.0173 |
| 1645 | .166 | 1929 | 21.72 | .00 | 100338 | 2.5403 | -1.6937 | -.2058 | -.0004 | .0018 | -.0177 |
| 1646 | .167 | 1965 | .07 | .00 | 100305 | 1.0060 | -1.6361 | -.5369 | .0017 | .0018 | -.0219 |
| 1647 | .167 | 1949 | .02 | .00 | 100311 | .2707 | .0484 | -.0707 | -.0009 | -.0004 | -.0086 |

TEST 995 RUN 100

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1632 | .0539 | 29.6323 | 2.8802 | 19.8148 | 1.8233 | 1.8438 | 0.0000 | -1.8013 | .0153 |
| 1633 | -1.8095 | 29.6603 | 2.8818 | 19.8028 | 1.8346 | 1.8552 | 0.0000 | -1.8113 | .0153 |
| 1634 | .0773 | 29.6495 | 2.8799 | 19.8167 | 1.8357 | 1.8564 | 0.0000 | -1.8136 | .0153 |
| 1635 | 1.9953 | 29.6496 | 2.8807 | 19.8187 | 1.8521 | 1.8729 | 0.0000 | -1.8292 | .0152 |
| 1636 | 3.9391 | 29.6970 | 2.8881 | 19.7548 | 1.8171 | 1.8375 | 0.0000 | -1.7924 | .0150 |
| 1637 | 5.9666 | 29.7238 | 2.8862 | 19.7695 | 1.8328 | 1.8534 | 0.0000 | -1.8005 | .0151 |
| 1638 | 7.9914 | 29.7002 | 2.8888 | 19.7492 | 1.8266 | 1.8471 | 0.0000 | -1.7891 | .0153 |
| 1639 | 10.0410 | 29.6725 | 2.8874 | 19.7599 | 1.8156 | 1.8360 | 0.0000 | -1.7685 | .0161 |
| 1640 | 12.1263 | 29.6510 | 2.8845 | 19.7823 | 1.8155 | 1.8359 | 0.0000 | -1.7562 | .0171 |
| 1641 | 14.2463 | 29.6639 | 2.8802 | 19.8147 | 1.8529 | 1.8738 | 0.0000 | -1.7736 | .0201 |
| 1642 | 16.2294 | 29.6606 | 2.8824 | 19.7982 | 1.8574 | 1.8783 | 0.0000 | -1.7620 | .0236 |
| 1643 | 18.2568 | 29.6416 | 2.8784 | 19.8279 | 1.8331 | 1.8537 | 0.0000 | -1.7181 | .0261 |
| 1644 | 20.2082 | 29.6197 | 2.8763 | 19.8440 | 1.8373 | 1.8579 | 0.0000 | -1.7017 | .0284 |
| 1645 | 21.7172 | 29.6590 | 2.8772 | 19.8372 | 1.8458 | 1.8665 | 0.0000 | -1.6913 | .0297 |
| 1646 | .0726 | 29.7164 | 2.8841 | 19.7851 | 1.8169 | 1.8373 | 0.0000 | -1.7929 | .0151 |
| 1647 | .0166 | 0.0000 | .9622 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0363 | .0080 |

TEST 995 RUN 100

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1632 | .0539 | 1.0110 | -1.6391 | -.5377 | 1.0093 | .1689 | -.3320 | 1.0109 | -1.6111 | -.5329 | 1.0000 |
| 1633 | -1.8095 | .8262 | -1.6768 | -.5724 | .8841 | .1416 | -.3654 | .8279 | -1.6375 | -.5663 | 1.0000 |
| 1634 | .0773 | 1.0222 | -1.6519 | -.5412 | 1.0197 | .1685 | -.3341 | 1.0221 | -1.6115 | -.5349 | 1.0000 |
| 1635 | 1.9953 | 1.2244 | -1.6354 | -.5156 | 1.1599 | .2084 | -.3067 | 1.2219 | -1.5786 | -.5075 | 1.0000 |
| 1636 | 3.9391 | 1.3918 | -1.5630 | -.4740 | 1.2670 | .2348 | -.2690 | 1.3893 | -1.5410 | -.4699 | 1.0000 |
| 1637 | 5.9666 | 1.6135 | -1.5264 | -.4407 | 1.4230 | .2814 | -.2339 | 1.6088 | -1.4890 | -.4347 | 1.0000 |
| 1638 | 7.9914 | 1.7997 | -1.4505 | -.4038 | 1.5457 | .3430 | -.1977 | 1.7932 | -1.4197 | -.3985 | 1.0000 |
| 1639 | 10.0410 | 1.9885 | -1.3528 | -.3783 | 1.6719 | .4189 | -.1734 | 1.9823 | -1.3339 | -.3743 | 1.0000 |
| 1640 | 12.1263 | 2.1557 | -1.2576 | -.3482 | 1.7743 | .5002 | -.1434 | 2.1482 | -1.2408 | -.3442 | 1.0000 |
| 1641 | 14.2463 | 2.3360 | -1.1712 | -.3197 | 1.8880 | .6047 | -.1107 | 2.3183 | -1.1206 | -.3115 | 1.0000 |
| 1642 | 16.2294 | 2.4839 | -1.0478 | -.3012 | 1.9648 | .7119 | -.0916 | 2.4622 | -.9971 | -.2925 | 1.0000 |
| 1643 | 18.2568 | 2.6428 | -.8941 | -.2636 | 2.0685 | .8206 | -.0568 | 2.6261 | -.8698 | -.2576 | 1.0000 |
| 1644 | 20.2082 | 2.8304 | -.7523 | -.2315 | 2.1957 | .9435 | -.0242 | 2.8106 | -.7269 | -.2250 | 1.0000 |
| 1645 | 21.7172 | 2.9867 | -.6335 | -.2058 | 2.3038 | 1.0516 | .0025 | 2.9624 | -.6020 | -.1983 | 1.0000 |
| 1646 | .0726 | 1.8081 | -1.6348 | -.5369 | 1.0058 | .1669 | -.3320 | 1.0081 | -1.6131 | -.5328 | 1.0000 |
| 1647 | .0166 | .2707 | .0485 | -.0707 | .2707 | .0041 | -.0707 | .2707 | .0405 | -.0707 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST, 995 RUN 102

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1656 | .166 | 1939 | .01 | .00 | 100176 | .3033 | .0603 | -.0761 | -.0022 | .0001 | -.0047 |
| 1657 | .166 | 1935 | -2.35 | .00 | 100179 | .1407 | .0658 | -.1207 | -.0021 | .0002 | -.0056 |
| 1658 | .166 | 1935 | .01 | .00 | 100179 | .3086 | .0616 | -.0754 | -.0017 | .0005 | -.0071 |
| 1659 | .166 | 1942 | 1.94 | .00 | 100172 | .4374 | .0552 | -.0416 | -.0021 | .0006 | -.0059 |
| 1660 | .166 | 1925 | 3.90 | .00 | 100189 | .5671 | .0452 | -.0054 | -.0026 | .0002 | -.0061 |
| 1661 | .166 | 1929 | 5.88 | .00 | 100186 | .6839 | .0318 | .0378 | -.0020 | -.0006 | -.0019 |
| 1662 | .166 | 1925 | 7.91 | .00 | 100186 | .8143 | .0180 | .0779 | -.0024 | .0000 | -.0028 |
| 1663 | .167 | 1949 | 9.99 | .00 | 100162 | .9369 | .0114 | .1121 | -.0014 | .0003 | -.0021 |
| 1664 | .166 | 1925 | 12.09 | .00 | 100186 | 1.0515 | .0091 | .1539 | -.0018 | .0004 | -.0033 |
| 1665 | .166 | 1929 | 14.19 | .00 | 100182 | 1.1518 | .0152 | .1957 | -.0026 | .0018 | -.0235 |
| 1666 | .166 | 1925 | 16.19 | .00 | 100193 | 1.2380 | .0373 | .2221 | -.0088 | -.0003 | -.0026 |
| 1667 | .166 | 1925 | 18.18 | .00 | 100193 | 1.3773 | .0516 | .2431 | -.0014 | .0001 | -.0023 |
| 1668 | .165 | 1906 | 20.17 | -.00 | 100209 | 1.4982 | .0437 | .2936 | -.0001 | .0004 | -.0011 |
| 1669 | .166 | 1932 | 21.60 | -.00 | 100182 | 1.5890 | .0409 | .3298 | .0003 | .0007 | -.0016 |
| 1670 | .166 | 1929 | .02 | .00 | 100189 | .2991 | .0666 | -.0746 | -.0014 | .0004 | -.0084 |

TEST 995 RUN 102

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1656 | .0137 | 0.0000 | .9749 | 24.0210 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0078 |
| 1657 | -2.3499 | 0.0000 | .9746 | 24.0206 | 0.0000 | 0.0000 | 0.0000 | .0245 | .0080 |
| 1658 | .0141 | 0.0000 | .9744 | 24.0202 | 0.0000 | 0.0000 | 0.0000 | .0247 | .0078 |
| 1659 | 1.9376 | .0454 | .9738 | 24.0195 | 0.0000 | 0.0000 | 0.0000 | .0252 | .0076 |
| 1660 | 3.9032 | 0.0000 | .9735 | 24.0190 | 0.0000 | 0.0000 | 0.0000 | .0257 | .0077 |
| 1661 | 5.8799 | 0.0000 | .9738 | 24.0195 | 0.0000 | 0.0000 | 0.0000 | .0252 | .0071 |
| 1662 | 7.9145 | 0.0000 | .9741 | 24.0199 | 0.0000 | 0.0000 | 0.0000 | .0249 | .0068 |
| 1663 | 9.9868 | 0.0000 | .9739 | 24.0196 | 0.0000 | 0.0000 | 0.0000 | .0246 | .0069 |
| 1664 | 12.0881 | 0.0000 | .9737 | 24.0193 | 0.0000 | 0.0000 | 0.0000 | .0250 | .0070 |
| 1665 | 14.1861 | 0.0000 | .9722 | 24.0173 | 0.0000 | 0.0000 | 0.0000 | .0261 | .0069 |
| 1666 | 16.1934 | 0.0000 | .9666 | 24.0098 | 0.0000 | 0.0000 | 0.0000 | .0311 | .0082 |
| 1667 | 18.1849 | 0.0000 | .9620 | 24.0036 | 0.0000 | 0.0000 | 0.0000 | .0351 | .0093 |
| 1668 | 20.1672 | 0.0000 | .9610 | 24.0023 | 0.0000 | 0.0000 | 0.0000 | .0359 | .0093 |
| 1669 | 21.6017 | 0.0000 | .9602 | 24.0012 | 0.0000 | 0.0000 | 0.0000 | .0357 | .0099 |
| 1670 | .0227 | .0955 | .9722 | 24.0173 | 0.0000 | 0.0000 | 0.0000 | .0269 | .0077 |

TEST 995 RUN 102

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1656 | .0137 | .3033 | .0604 | -.0761 | .3033 | .0284 | -.0761 | .3033 | .0525 | -.0761 | 1.0000 |
| 1657 | -2.3499 | .1432 | .0591 | -.1207 | .1432 | .0267 | -.1207 | .1432 | .0512 | -.1207 | 1.0000 |
| 1658 | .0141 | .3086 | .0617 | -.0754 | .3086 | .0292 | -.0754 | .3086 | .0540 | -.0754 | 1.0000 |
| 1659 | 1.9376 | .4353 | .0700 | -.0416 | .4353 | .0372 | -.0416 | .4353 | .0624 | -.0416 | 1.0000 |
| 1660 | 3.9032 | .5627 | .0837 | -.0054 | .5627 | .0502 | -.0054 | .5627 | .0759 | -.0054 | 1.0000 |
| 1661 | 5.8799 | .6771 | .1009 | .0378 | .6771 | .0685 | .0378 | .6771 | .0938 | .0378 | 1.0000 |
| 1662 | 7.9145 | .8040 | .1360 | .0779 | .8040 | .0983 | .0779 | .8040 | .1231 | .0779 | 1.0000 |
| 1663 | 9.9868 | .9207 | .1737 | .1121 | .9207 | .1422 | .1121 | .9207 | .1668 | .1121 | 1.0000 |
| 1664 | 12.0881 | 1.0263 | .2291 | .1539 | 1.0263 | .1971 | .1539 | 1.0263 | .2220 | .1539 | 1.0000 |
| 1665 | 14.1861 | 1.1130 | .2970 | .1957 | 1.1130 | .2640 | .1957 | 1.1130 | .2902 | .1957 | 1.0000 |
| 1666 | 16.1934 | 1.1785 | .3811 | .2221 | 1.1785 | .3417 | .2221 | 1.1785 | .3729 | .2221 | 1.0000 |
| 1667 | 18.1849 | 1.2924 | .4788 | .2431 | 1.2924 | .4345 | .2431 | 1.2924 | .4696 | .2431 | 1.0000 |
| 1668 | 20.1672 | 1.3913 | .5575 | .2936 | 1.3913 | .5124 | .2936 | 1.3913 | .5482 | .2936 | 1.0000 |
| 1669 | 21.6017 | 1.4623 | .6231 | .3298 | 1.4623 | .5774 | .3298 | 1.4623 | .6132 | .3298 | 1.0000 |
| 1670 | .0227 | .2991 | .0667 | -.0746 | .2991 | .0321 | -.0746 | .2991 | .0590 | -.0746 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 103

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1671 | .166 | 1929 | .02 | .00 | 100189 | .3003 | .0672 | -.0735 | -.0016 | .0005 | -.0072 |
| 1672 | .166 | 1925 | .01 | .00 | 100193 | .3045 | .0663 | -.0727 | -.0016 | .0005 | -.0072 |
| 1673 | .166 | 1939 | .05 | .00 | 100183 | 1.1116 | -1.5722 | -.5711 | -.0030 | .0019 | -.0217 |
| 1674 | .166 | 1939 | -2.27 | .00 | 100179 | .9405 | -1.5781 | -.6131 | -.0023 | .0022 | -.0215 |
| 1675 | .167 | 1952 | .09 | .00 | 100166 | 1.1143 | -1.5704 | -.5708 | -.0031 | .0022 | -.0191 |
| 1676 | .166 | 1933 | 2.00 | .00 | 100186 | 1.2571 | -1.5993 | -.5466 | -.0028 | .0017 | -.0175 |
| 1677 | .167 | 1949 | 3.96 | .00 | 100176 | 1.3947 | -1.6044 | -.5104 | -.0031 | .0017 | -.0207 |
| 1679 | .166 | 1939 | 5.95 | .00 | 100186 | 1.5359 | -1.6195 | -.4733 | -.0033 | .0004 | -.0179 |
| 1680 | .166 | 1942 | 7.98 | .00 | 100183 | 1.6848 | -1.6270 | -.4399 | -.0018 | .0012 | -.0229 |
| 1681 | .166 | 1929 | 10.04 | .00 | 100196 | 1.8340 | -1.6447 | -.4219 | -.0023 | .0019 | -.0196 |
| 1682 | .166 | 1932 | 12.15 | .00 | 100193 | 1.9428 | -1.6369 | -.3876 | -.0023 | .0020 | -.0199 |
| 1683 | .166 | 1935 | 14.23 | .00 | 100189 | 2.0554 | -1.6373 | -.3506 | -.0026 | .0017 | -.0199 |
| 1684 | .166 | 1935 | 16.23 | .00 | 100189 | 2.1706 | -1.6297 | -.3299 | -.0017 | .0015 | -.0189 |
| 1685 | .166 | 1925 | 18.21 | .00 | 100196 | 2.3281 | -1.6418 | -.2970 | -.0031 | .0016 | -.0193 |
| 1686 | .166 | 1925 | 20.21 | .00 | 100199 | 2.4506 | -1.5863 | -.2353 | -.0019 | .0026 | -.0251 |
| 1687 | .166 | 1925 | 21.75 | .00 | 100199 | 2.5939 | -1.6033 | -.2124 | -.0009 | .0021 | -.0207 |
| 1688 | .167 | 1952 | .07 | .00 | 100173 | 1.1062 | -1.5620 | -.5666 | -.0030 | .0020 | -.0272 |
| 1689 | .166 | 1929 | .02 | .00 | 100176 | .3131 | .0482 | -.0768 | -.0022 | .0006 | -.0103 |

TEST 995 RUN 103

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1671 | .0182 | 0.0000 | .9714 | 24.0162 | 0.0000 | 0.0000 | 0.0000 | .0277 | .0077 |
| 1672 | .0115 | 0.0000 | .9714 | 24.0162 | 0.0000 | 0.0000 | 0.0000 | .0278 | .0077 |
| 1673 | .0513 | 29.1418 | 2.8325 | 23.1544 | 1.7904 | 1.8105 | 0.0000 | -1.7654 | .0143 |
| 1674 | -2.2720 | 29.1465 | 2.8375 | 23.1050 | 1.7934 | 1.8135 | 0.0000 | -1.7687 | .0143 |
| 1675 | .0936 | 29.1418 | 2.8410 | 23.0703 | 1.7833 | 1.8033 | 0.0000 | -1.7613 | .0142 |
| 1676 | 2.0041 | 29.1771 | 2.8416 | 23.0648 | 1.8052 | 1.8255 | 0.0000 | -1.7791 | .0143 |
| 1677 | 3.9632 | 29.2521 | 2.8504 | 22.9779 | 1.7966 | 1.8168 | 0.0000 | -1.7692 | .0141 |
| 1679 | 5.9547 | 29.1278 | 2.8346 | 23.1335 | 1.7945 | 1.8147 | 0.0000 | -1.7579 | .0143 |
| 1680 | 7.9804 | 29.1959 | 2.8391 | 23.0890 | 1.7966 | 1.8168 | 0.0000 | -1.7516 | .0147 |
| 1681 | 10.0392 | 29.2278 | 2.8416 | 23.0641 | 1.8123 | 1.8327 | 0.0000 | -1.7562 | .0156 |
| 1682 | 12.1492 | 29.1276 | 2.8291 | 23.1874 | 1.7994 | 1.8196 | 0.0000 | -1.7288 | .0166 |
| 1683 | 14.2302 | 29.2535 | 2.8495 | 22.9864 | 1.8088 | 1.8291 | 0.0000 | -1.7302 | .0189 |
| 1684 | 16.2266 | 29.2894 | 2.8533 | 22.9490 | 1.8112 | 1.8315 | 0.0000 | -1.7173 | .0219 |
| 1685 | 18.2149 | 29.3187 | 2.8503 | 22.9781 | 1.8231 | 1.8436 | 0.0000 | -1.7051 | .0246 |
| 1686 | 20.2101 | 28.6415 | 2.7837 | 23.6363 | 1.7621 | 1.7819 | 0.0000 | -1.6239 | .0275 |
| 1687 | 21.7460 | 28.8308 | 2.8053 | 23.4233 | 1.7805 | 1.8005 | 0.0000 | -1.6267 | .0285 |
| 1688 | .0700 | 28.9844 | 2.8228 | 23.2502 | 1.7701 | 1.7900 | 0.0000 | -1.7440 | .0142 |
| 1689 | .0167 | 0.0000 | .9623 | 24.0041 | 0.0000 | 0.0000 | 0.0000 | .0365 | .0079 |

TEST 995 RUN 103

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1671 | .0182 | .3003 | .0673 | -.0735 | .3003 | .0319 | -.0735 | .3003 | .0596 | -.0735 | 1.0000 |
| 1672 | .0115 | .3044 | .0664 | -.0727 | .3044 | .0309 | -.0727 | .3044 | .0587 | -.0727 | 1.0000 |
| 1673 | .0513 | 1.1130 | -1.5712 | -.5711 | 1.1114 | .2049 | -.3691 | 1.1130 | -1.5751 | -.5700 | 1.8000 |
| 1674 | -2.2720 | .8772 | -1.6141 | -.6131 | .9483 | .1636 | -.4108 | .8777 | -1.6150 | -.6116 | 1.8000 |
| 1675 | .0936 | 1.1169 | -1.5686 | -.5708 | 1.1139 | .2086 | -.3688 | 1.1169 | -1.5794 | -.5696 | 1.8000 |
| 1676 | 2.0041 | 1.3123 | -1.5543 | -.5466 | 1.2491 | .2356 | -.3430 | 1.3114 | -1.5434 | -.5438 | 1.8000 |
| 1677 | 3.9632 | 1.5022 | -1.5042 | -.5104 | 1.3780 | .2741 | -.3077 | 1.5011 | -1.5016 | -.5085 | 1.8000 |
| 1679 | 5.9547 | 1.6956 | -1.4515 | -.4733 | 1.5095 | .3198 | -.2709 | 1.6941 | -1.4514 | -.4717 | 1.8000 |
| 1680 | 7.9804 | 1.8943 | -1.3773 | -.4399 | 1.6449 | .3873 | -.2372 | 1.8920 | -1.3755 | -.4380 | 1.8000 |
| 1681 | 10.0392 | 2.0926 | -1.2998 | -.4219 | 1.7767 | .4691 | -.2174 | 2.0870 | -1.2836 | -.4183 | 1.8000 |
| 1682 | 12.1492 | 2.2438 | -1.1914 | -.3876 | 1.8651 | .5511 | -.1846 | 2.2397 | -1.1890 | -.3854 | 1.8000 |
| 1683 | 14.2302 | 2.3948 | -1.0818 | -.3506 | 1.9502 | .6525 | -.1466 | 2.3877 | -1.0729 | -.3474 | 1.8000 |
| 1684 | 16.2266 | 2.5395 | -.9582 | -.3299 | 2.0334 | .7589 | -.1256 | 2.5308 | -.9502 | -.3264 | 1.8000 |
| 1685 | 18.2149 | 2.7246 | -.8318 | -.2970 | 2.1547 | .8753 | -.0913 | 2.7111 | -.8155 | -.2921 | 1.8000 |
| 1686 | 20.2101 | 2.8477 | -.6420 | -.2353 | 2.2390 | .9841 | -.0365 | 2.8539 | -.6863 | -.2374 | 1.8000 |
| 1687 | 21.7460 | 3.0033 | -.5282 | -.2124 | 2.3437 | 1.0971 | -.0115 | 3.0032 | -.5562 | -.2124 | 1.8000 |
| 1688 | .0700 | 1.1081 | -1.5606 | -.5666 | 1.1059 | .1953 | -.3669 | 1.1081 | -1.5847 | -.5678 | 1.8000 |
| 1689 | .0167 | .3131 | .0483 | -.0768 | .3131 | .0040 | -.0768 | .3131 | .0405 | -.0768 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 105

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1706 | .166 | 1939 | .03 | -.00 | 100155 | .5448 | .1148 | -.1548 | -.0011 | .0001 | -.0067 |
| 1707 | .166 | 1922 | -1.84 | .00 | 100172 | .4083 | .1167 | -.1886 | -.0007 | .0002 | -.0114 |
| 1708 | .166 | 1932 | .05 | -.00 | 100162 | .5449 | .1143 | -.1549 | -.0000 | -.0010 | .0111 |
| 1709 | .166 | 1922 | 1.99 | -.00 | 100172 | .6761 | .1064 | -.1233 | -.0014 | -.0002 | -.0053 |
| 1710 | .166 | 1922 | 3.93 | -.00 | 100172 | .8213 | .0962 | -.0879 | -.0015 | -.0008 | -.0028 |
| 1711 | .166 | 1922 | 5.93 | -.00 | 100172 | .9618 | .0870 | -.0520 | -.0008 | -.0005 | -.0038 |
| 1712 | .166 | 1935 | 7.95 | -.00 | 100159 | 1.0909 | .0784 | -.0198 | -.0004 | -.0006 | -.0034 |
| 1713 | .167 | 1949 | 10.02 | -.00 | 100156 | 1.2086 | .0748 | .0102 | -.0008 | -.0004 | -.0035 |
| 1714 | .166 | 1935 | 12.17 | -.00 | 100162 | 1.3145 | .0740 | .0482 | -.0007 | -.0002 | -.0025 |
| 1715 | .166 | 1939 | 14.20 | -.00 | 100159 | 1.4016 | .0796 | .0926 | -.0008 | -.0002 | -.0049 |
| 1716 | .166 | 1929 | 16.19 | -.00 | 100169 | 1.4997 | .0974 | .1216 | -.0020 | -.0005 | -.0041 |
| 1717 | .165 | 1919 | 18.19 | -.00 | 100179 | 1.6684 | .1093 | .1422 | -.0009 | -.0007 | .0004 |
| 1718 | .167 | 1945 | 20.18 | -.00 | 100149 | 1.8023 | .1183 | .1852 | -.0009 | -.0007 | -.0035 |
| 1719 | .165 | 1906 | 21.65 | -.00 | 100189 | 1.8993 | .1055 | .2176 | .0009 | .0003 | .0001 |
| 1720 | .166 | 1932 | .04 | -.00 | 100159 | .5486 | .1243 | -.1535 | -.0011 | -.0001 | -.0068 |

TEST 995 RUN 105

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1706 | .0328 | 0.0000 | .9664 | 43.1489 | 0.0000 | 0.0000 | 0.0000 | .0324 | .0095 |
| 1707 | -1.8436 | 0.0000 | .9682 | 43.1351 | 0.0000 | 0.0000 | 0.0000 | .0388 | .0099 |
| 1708 | .0513 | 0.0000 | .9654 | 43.1557 | 0.0000 | 0.0000 | 0.0000 | .0334 | .0097 |
| 1709 | 1.9902 | 0.0000 | .9659 | 43.1523 | 0.0000 | 0.0000 | 0.0000 | .0331 | .0096 |
| 1710 | 3.9334 | 0.0000 | .9654 | 43.1558 | 0.0000 | 0.0000 | 0.0000 | .0335 | .0096 |
| 1711 | 5.9270 | 0.0000 | .9657 | 43.1541 | 0.0000 | 0.0000 | 0.0000 | .0332 | .0094 |
| 1712 | 7.9470 | 0.0000 | .9659 | 43.1523 | 0.0000 | 0.0000 | 0.0000 | .0326 | .0090 |
| 1713 | 10.0245 | 0.0000 | .9668 | 43.1455 | 0.0000 | 0.0000 | 0.0000 | .0313 | .0087 |
| 1714 | 12.1733 | 0.0000 | .9659 | 43.1524 | 0.0000 | 0.0000 | 0.0000 | .0322 | .0087 |
| 1715 | 14.1983 | 0.0000 | .9660 | 43.1515 | 0.0000 | 0.0000 | 0.0000 | .0317 | .0088 |
| 1716 | 16.1917 | 0.0000 | .9628 | 43.1755 | 0.0000 | 0.0000 | 0.0000 | .0346 | .0097 |
| 1717 | 18.1931 | 0.0000 | .9603 | 43.1935 | 0.0000 | 0.0000 | 0.0000 | .0367 | .0104 |
| 1718 | 20.1832 | 0.0000 | .9545 | 43.2364 | 0.0000 | 0.0000 | 0.0000 | .0410 | .0111 |
| 1719 | 21.6533 | 0.0000 | .9566 | 43.2209 | 0.0000 | 0.0000 | 0.0000 | .0395 | .0115 |
| 1720 | .0376 | 0.0000 | .9668 | 43.1455 | 0.0000 | 0.0000 | 0.0000 | .0321 | .0096 |

TEST 995 RUN 105

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1706 | .0328 | .5447 | .1151 | -.1548 | .5447 | .0732 | -.1548 | .5447 | .1056 | -.1548 | 1.0000 |
| 1707 | -1.8436 | .4118 | .1036 | -.1886 | .4118 | .0628 | -.1886 | .4118 | .0937 | -.1886 | 1.0000 |
| 1708 | .0513 | .5448 | .1148 | -.1549 | .5448 | .0717 | -.1549 | .5448 | .1051 | -.1549 | 1.0000 |
| 1709 | 1.9902 | .6720 | .1298 | -.1233 | .6720 | .0871 | -.1233 | .6720 | .1202 | -.1233 | 1.0000 |
| 1710 | 3.9334 | .8128 | .1523 | -.0879 | .8128 | .1092 | -.0879 | .8128 | .1427 | -.0879 | 1.0000 |
| 1711 | 5.9270 | .9477 | .1858 | -.0520 | .9477 | .1432 | -.0520 | .9477 | .1764 | -.0520 | 1.0000 |
| 1712 | 7.9470 | 1.0696 | .2284 | -.0198 | 1.0696 | .1868 | -.0198 | 1.0696 | .2194 | -.0198 | 1.0000 |
| 1713 | 10.0245 | 1.1771 | .2841 | .0102 | 1.1771 | .2441 | .0102 | 1.1771 | .2754 | .0102 | 1.0000 |
| 1714 | 12.1733 | 1.2694 | .3495 | .0482 | 1.2694 | .3086 | .0482 | 1.2694 | .3408 | .0482 | 1.0000 |
| 1715 | 14.1983 | 1.3393 | .4209 | .0926 | 1.3393 | .3804 | .0926 | 1.3393 | .4121 | .0926 | 1.0000 |
| 1716 | 16.1917 | 1.4131 | .5117 | .1216 | 1.4131 | .4674 | .1216 | 1.4131 | .5020 | .1216 | 1.0000 |
| 1717 | 18.1931 | 1.5508 | .6248 | .1422 | 1.5508 | .5777 | .1422 | 1.5508 | .6144 | .1422 | 1.0000 |
| 1718 | 20.1832 | 1.6508 | .7329 | .1852 | 1.6508 | .6808 | .1852 | 1.6508 | .7218 | .1852 | 1.0000 |
| 1719 | 21.6533 | 1.7264 | .7989 | .2176 | 1.7264 | .7479 | .2176 | 1.7264 | .7874 | .2176 | 1.0000 |
| 1720 | .0376 | .5485 | .1247 | -.1535 | .5485 | .0830 | -.1535 | .5485 | .1151 | -.1535 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 106

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1721 | .166 | 1925 | .04 | .00 | 100165 | .5470 | .1218 | -.1530 | -.0009 | -.0003 | -.0116 |
| 1722 | .166 | 1932 | .03 | .00 | 100159 | .5504 | .1240 | -.1522 | -.0004 | .0000 | -.0081 |
| 1723 | .166 | 1942 | .07 | .00 | 100149 | 1.4119 | -1.4598 | -.7974 | -.0006 | .0006 | -.0190 |
| 1724 | .166 | 1922 | -1.79 | .00 | 100169 | 1.2776 | -1.4753 | -.8347 | -.0007 | .0010 | -.0258 |
| 1725 | .166 | 1932 | .11 | .00 | 100159 | 1.4202 | -1.4751 | -.8020 | -.0009 | .0003 | -.0225 |
| 1726 | .166 | 1925 | 2.03 | .00 | 100165 | 1.5630 | -1.4901 | -.7726 | -.0005 | .0004 | -.0202 |
| 1727 | .166 | 1939 | 3.98 | .00 | 100152 | 1.6938 | -1.4809 | -.7334 | -.0010 | -.0001 | -.0197 |
| 1728 | .167 | 1949 | 5.97 | -.00 | 100142 | 1.8436 | -1.4882 | -.6941 | .0004 | -.0017 | -.0031 |
| 1729 | .166 | 1922 | 8.00 | .00 | 100172 | 2.0021 | -1.5178 | -.6734 | -.0001 | -.0002 | -.0205 |
| 1730 | .166 | 1929 | 10.06 | .00 | 100162 | 2.1466 | -1.5169 | -.6486 | -.0003 | .0002 | -.0195 |
| 1731 | .166 | 1932 | 12.17 | .00 | 100155 | 2.2502 | -1.5291 | -.6039 | -.0002 | -.0001 | -.0184 |
| 1732 | .166 | 1935 | 14.26 | .00 | 100155 | 2.3682 | -1.5328 | -.5649 | -.0020 | -.0003 | -.0156 |
| 1733 | .166 | 1922 | 16.25 | .00 | 100169 | 2.5485 | -1.5365 | -.5621 | -.0018 | -.0002 | -.0168 |
| 1734 | .166 | 1929 | 18.25 | .00 | 100162 | 2.7059 | -1.5276 | -.5331 | -.0005 | -.0003 | -.0156 |
| 1735 | .166 | 1939 | 20.25 | .00 | 100152 | 2.8473 | -1.5222 | -.4897 | -.0008 | -.0006 | -.0182 |
| 1736 | .166 | 1932 | 21.83 | .00 | 100155 | 3.0010 | -1.5327 | -.4586 | .0002 | -.0003 | -.0157 |
| 1737 | .167 | 1945 | .07 | .00 | 100145 | 1.4137 | -1.4745 | -.8003 | -.0001 | .0008 | -.0271 |
| 1738 | .166 | 1932 | .03 | -.00 | 100149 | .5597 | .1003 | -.1626 | -.0005 | -.0002 | -.0048 |

TEST 995 RUN 106

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1721 | .0352 | 0.0000 | .9663 | 43.1490 | 0.0000 | 0.0000 | 0.0000 | .0326 | .0096 |
| 1722 | .0332 | 0.0000 | .9682 | 43.1351 | 0.0000 | 0.0000 | 0.0000 | .0307 | .0098 |
| 1723 | .0678 | 29.2442 | 2.8780 | 29.0827 | 1.8090 | 1.8293 | 0.0000 | -1.8055 | .0141 |
| 1724 | -1.7862 | 29.0967 | 2.8729 | 29.0405 | 1.8182 | 1.8387 | 0.0000 | -1.8187 | .0141 |
| 1725 | .1119 | 29.1958 | 2.8863 | 28.9414 | 1.8178 | 1.8382 | 0.0000 | -1.8230 | .0141 |
| 1726 | 2.0302 | 29.1978 | 2.8869 | 28.9370 | 1.8238 | 1.8443 | 0.0000 | -1.8288 | .0141 |
| 1727 | 3.9782 | 29.0794 | 2.8741 | 29.0315 | 1.8018 | 1.8220 | 0.0000 | -1.8006 | .0142 |
| 1728 | 5.9744 | 29.1240 | 2.8743 | 29.0305 | 1.7943 | 1.8144 | 0.0000 | -1.7860 | .0145 |
| 1729 | 7.9986 | 29.1467 | 2.8773 | 29.0082 | 1.8213 | 1.8418 | 0.0000 | -1.8061 | .0153 |
| 1730 | 10.0624 | 29.1544 | 2.8780 | 29.0032 | 1.8161 | 1.8365 | 0.0000 | -1.7901 | .0163 |
| 1731 | 12.1689 | 29.1827 | 2.8789 | 28.9965 | 1.8144 | 1.8348 | 0.0000 | -1.7749 | .0168 |
| 1732 | 14.2557 | 29.2206 | 2.8816 | 28.9761 | 1.8143 | 1.8346 | 0.0000 | -1.7594 | .0184 |
| 1733 | 16.2457 | 29.2153 | 2.8829 | 28.9664 | 1.8261 | 1.8466 | 0.0000 | -1.7563 | .0205 |
| 1734 | 18.2520 | 29.2402 | 2.8867 | 28.9385 | 1.8261 | 1.8466 | 0.0000 | -1.7347 | .0224 |
| 1735 | 20.2468 | 29.2364 | 2.8850 | 28.9588 | 1.8127 | 1.8330 | 0.0000 | -1.7033 | .0244 |
| 1736 | 21.8324 | 29.2248 | 2.8893 | 28.9189 | 1.8201 | 1.8405 | 0.0000 | -1.6949 | .0257 |
| 1737 | .0749 | 29.2754 | 2.8910 | 28.9069 | 1.8132 | 1.8336 | 0.0000 | -1.8149 | .0140 |
| 1738 | .0288 | 0.0000 | .9624 | 43.1781 | 0.0000 | 0.0000 | 0.0000 | .0363 | .0097 |

TEST 995 RUN 106

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1721 | .0352 | .5469 | .1221 | -.1530 | .5469 | .0799 | -.1530 | .5469 | .1125 | -.1530 | 1.0000 |
| 1722 | .0332 | .5504 | .1244 | -.1522 | .5504 | .0838 | -.1522 | .5504 | .1145 | -.1522 | 1.0000 |
| 1723 | .0678 | 1.4136 | -1.4581 | -.7974 | 1.4114 | .3368 | -.5933 | 1.4136 | -1.4432 | -.7941 | 1.8000 |
| 1724 | -1.7862 | 1.2310 | -1.5144 | -.8347 | 1.2877 | .2889 | -.6296 | 1.2322 | -1.4902 | -.8304 | 1.8000 |
| 1725 | .1119 | 1.4231 | -1.4724 | -.8020 | 1.4196 | .3313 | -.5969 | 1.4230 | -1.4487 | -.7977 | 1.8000 |
| 1726 | 2.0302 | 1.6148 | -1.4338 | -.7726 | 1.5502 | .3748 | -.5668 | 1.6132 | -1.4041 | -.7676 | 1.8000 |
| 1727 | 3.9782 | 1.7924 | -1.3598 | -.7334 | 1.6674 | .4234 | -.5302 | 1.7909 | -1.3523 | -.7310 | 1.8000 |
| 1728 | 5.9744 | 1.9885 | -1.2883 | -.6941 | 1.8017 | .4818 | -.4916 | 1.9878 | -1.2885 | -.6925 | 1.8000 |
| 1729 | 7.9986 | 2.1938 | -1.2244 | -.6734 | 1.9404 | .5639 | -.4680 | 2.1880 | -1.1988 | -.6688 | 1.8000 |
| 1730 | 10.0624 | 2.3789 | -1.1185 | -.6486 | 2.0615 | .6533 | -.4437 | 2.3726 | -1.0993 | -.6445 | 1.8000 |
| 1731 | 12.1689 | 2.5219 | -1.0205 | -.6039 | 2.1395 | .7363 | -.3992 | 2.5147 | -1.0037 | -.6000 | 1.8000 |
| 1732 | 14.2557 | 2.6727 | -.9024 | -.5649 | 2.2259 | .8375 | -.3602 | 2.6643 | -.8876 | -.5610 | 1.8000 |
| 1733 | 16.2457 | 2.8766 | -.7621 | -.5621 | 2.3657 | .9705 | -.3561 | 2.8637 | -.7384 | -.5569 | 1.8000 |
| 1734 | 18.2520 | 3.0482 | -.6033 | -.5331 | 2.4762 | 1.1085 | -.3271 | 3.0337 | -.5819 | -.5279 | 1.8000 |
| 1735 | 20.2468 | 3.1981 | -.4428 | -.4897 | 2.5708 | 1.2335 | -.2852 | 3.1868 | -.4366 | -.4860 | 1.8000 |
| 1736 | 21.8324 | 3.3557 | -.3067 | -.4586 | 2.6788 | 1.3571 | -.2533 | 3.3408 | -.2952 | -.4541 | 1.8000 |
| 1737 | .0749 | 1.4156 | -1.4726 | -.8003 | 1.4133 | .3266 | -.5957 | 1.4156 | -1.4534 | -.7965 | 1.8000 |
| 1738 | .0288 | .5596 | .1006 | -.1626 | .5596 | .0546 | -.1626 | .5596 | .0909 | -.1626 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 107

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1741 | .166 | 1935 | .03 | -.00 | 100128 | .4629 | .0688 | -.1396 | -.0017 | -.0001 | -.0049 |
| 1742 | .166 | 1932 | -1.83 | -.00 | 100128 | .3399 | .0737 | -.1766 | -.0016 | .0001 | -.0072 |
| 1743 | .166 | 1935 | .04 | -.00 | 100125 | .4733 | .0706 | -.1418 | -.0014 | .0001 | -.0074 |
| 1744 | .166 | 1925 | 1.96 | -.00 | 100135 | .5810 | .0629 | -.1009 | -.0020 | -.0001 | -.0045 |
| 1745 | .165 | 1919 | 3.91 | -.00 | 100142 | .7118 | .0504 | -.0649 | -.0001 | -.0006 | -.0061 |
| 1746 | .165 | 1919 | 5.92 | -.00 | 100138 | .8399 | .0356 | -.0208 | -.0004 | -.0004 | -.0032 |
| 1747 | .165 | 1916 | 7.92 | -.00 | 100138 | .9393 | .0248 | .0251 | -.0012 | -.0006 | -.0044 |
| 1748 | .165 | 1916 | 9.99 | -.00 | 100138 | 1.0438 | .0219 | .0679 | -.0016 | -.0004 | -.0032 |
| 1749 | .165 | 1916 | 12.10 | -.00 | 100138 | 1.1408 | .0237 | .1146 | -.0009 | -.0002 | -.0034 |
| 1750 | .166 | 1922 | 14.17 | -.00 | 100132 | 1.2291 | .0324 | .1613 | -.0005 | -.0000 | -.0025 |
| 1751 | .165 | 1919 | 16.17 | .00 | 100135 | 1.3037 | .0581 | .1905 | -.0012 | -.0007 | -.0077 |
| 1752 | .166 | 1935 | 18.19 | -.00 | 100115 | 1.4410 | .0638 | .2230 | -.0011 | -.0003 | -.0012 |
| 1753 | .165 | 1912 | 20.18 | -.00 | 100138 | 1.5622 | .0594 | .2723 | -.0005 | -.0002 | -.0007 |
| 1754 | .166 | 1922 | 21.77 | -.00 | 100125 | 1.6603 | .0541 | .3149 | .0002 | .0002 | -.0023 |
| 1755 | .166 | 1922 | .04 | -.00 | 100125 | .4672 | .0742 | -.1383 | -.0006 | -.0002 | -.0042 |

TEST 995 RUN 107

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1741 | .0307 | 0.0000 | .9756 | 24.0219 | 0.0000 | 0.0000 | 0.0000 | .0235 | .0077 |
| 1742 | -1.8321 | 0.0000 | .9755 | 24.0218 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0079 |
| 1743 | .0359 | 0.0000 | .9762 | 24.0227 | 0.0000 | 0.0000 | 0.0000 | .0229 | .0077 |
| 1744 | 1.9598 | 0.0000 | .9763 | 24.0229 | 0.0000 | 0.0000 | 0.0000 | .0229 | .0075 |
| 1745 | 3.9104 | 0.0000 | .9755 | 24.0218 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0073 |
| 1746 | 5.9161 | 0.0000 | .9767 | 24.0234 | 0.0000 | 0.0000 | 0.0000 | .0226 | .0071 |
| 1747 | 7.9194 | 0.0000 | .9775 | 24.0245 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0069 |
| 1748 | 9.9920 | 0.0000 | .9771 | 24.0240 | 0.0000 | 0.0000 | 0.0000 | .0219 | .0070 |
| 1749 | 12.0956 | 0.0000 | .9767 | 24.0234 | 0.0000 | 0.0000 | 0.0000 | .0222 | .0069 |
| 1750 | 14.1679 | 0.0000 | .9754 | 24.0217 | 0.0000 | 0.0000 | 0.0000 | .0231 | .0068 |
| 1751 | 16.1656 | 0.0000 | .9690 | 24.0130 | 0.0000 | 0.0000 | 0.0000 | .0290 | .0084 |
| 1752 | 18.1930 | 0.0000 | .9656 | 24.0085 | 0.0000 | 0.0000 | 0.0000 | .0315 | .0092 |
| 1753 | 20.1841 | 0.0000 | .9650 | 24.0076 | 0.0000 | 0.0000 | 0.0000 | .0321 | .0095 |
| 1754 | 21.7722 | 0.0000 | .9643 | 24.0067 | 0.0000 | 0.0000 | 0.0000 | .0322 | .0098 |
| 1755 | .0355 | 0.0000 | .9769 | 24.0237 | 0.0000 | 0.0000 | 0.0000 | .0224 | .0074 |

TEST 995 RUN 107

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1741 | .0307 | .4629 | .0691 | -.1396 | .4629 | .0379 | -.1396 | .4629 | .0614 | -.1396 | 1.0000 |
| 1742 | -1.8321 | .3421 | .0628 | -.1766 | .3421 | .0313 | -.1766 | .3421 | .0549 | -.1766 | 1.0000 |
| 1743 | .0359 | .4732 | .0709 | -.1418 | .4732 | .0403 | -.1418 | .4732 | .0632 | -.1418 | 1.0000 |
| 1744 | 1.9598 | .5785 | .0828 | -.1009 | .5785 | .0523 | -.1009 | .5785 | .0753 | -.1009 | 1.0000 |
| 1745 | 3.9104 | .7067 | .0988 | -.0649 | .7067 | .0677 | -.0649 | .7067 | .0915 | -.0649 | 1.0000 |
| 1746 | 5.9161 | .8318 | .1220 | -.0208 | .8318 | .0924 | -.0208 | .8318 | .1149 | -.0208 | 1.0000 |
| 1747 | 7.9194 | .9269 | .1540 | .0251 | .9269 | .1254 | .0251 | .9269 | .1471 | .0251 | 1.0000 |
| 1748 | 9.9920 | 1.0242 | .2026 | .0679 | 1.0242 | .1737 | .0679 | 1.0242 | .1957 | .0679 | 1.0000 |
| 1749 | 12.0956 | 1.1106 | .2622 | .1146 | 1.1106 | .2331 | .1146 | 1.1106 | .2553 | .1146 | 1.0000 |
| 1750 | 14.1679 | 1.1838 | .3323 | .1613 | 1.1838 | .3023 | .1613 | 1.1838 | .3255 | .1613 | 1.0000 |
| 1751 | 16.1656 | 1.2360 | .4188 | .1905 | 1.2360 | .3814 | .1905 | 1.2360 | .4103 | .1905 | 1.0000 |
| 1752 | 18.1930 | 1.3491 | .5105 | .2230 | 1.3491 | .4698 | .2230 | 1.3491 | .5013 | .2230 | 1.0000 |
| 1753 | 20.1841 | 1.4457 | .5948 | .2723 | 1.4457 | .5532 | .2723 | 1.4457 | .5853 | .2723 | 1.0000 |
| 1754 | 21.7722 | 1.5218 | .6661 | .3149 | 1.5218 | .6241 | .3149 | 1.5218 | .6563 | .3149 | 1.0000 |
| 1755 | .0355 | .4671 | .0745 | -.1383 | .4671 | .0446 | -.1383 | .4671 | .0671 | -.1383 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 108

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1756 | .166 | 1922 | .04 | -.00 | 100121 | .4627 | .0722 | -.1381 | -.0016 | -.0002 | -.0062 |
| 1757 | .166 | 1929 | .04 | -.00 | 100118 | .4611 | .0720 | -.1383 | -.0017 | -.0003 | -.0050 |
| 1758 | .166 | 1935 | .07 | .00 | 100111 | 1.3101 | -1.5767 | -.6517 | -.0020 | .0015 | -.0259 |
| 1759 | .166 | 1935 | -1.80 | .00 | 100111 | 1.1926 | -1.5817 | -.6886 | -.0016 | .0019 | -.0246 |
| 1760 | .167 | 1949 | .11 | .00 | 100098 | 1.3158 | -1.5827 | -.6558 | -.0019 | .0016 | -.0188 |
| 1761 | .167 | 1949 | 2.00 | .00 | 100098 | 1.4495 | -1.6021 | -.6261 | -.0018 | .0013 | -.0209 |
| 1762 | .167 | 1955 | 3.94 | .00 | 100091 | 1.5869 | -1.6162 | -.5945 | .0015 | .0007 | -.0185 |
| 1763 | .166 | 1922 | 5.93 | -.00 | 100125 | 1.7640 | -1.6600 | -.5704 | .0000 | -.0010 | .0070 |
| 1764 | .166 | 1932 | 7.95 | .00 | 100115 | 1.8699 | -1.6610 | -.5239 | -.0018 | .0007 | -.0163 |
| 1765 | .165 | 1916 | 10.02 | .00 | 100132 | 1.9699 | -1.6775 | -.4883 | .0000 | .0010 | -.0183 |
| 1766 | .164 | 1886 | 12.14 | .00 | 100162 | 2.0634 | -1.7067 | -.4526 | -.0026 | .0011 | -.0165 |
| 1767 | .165 | 1916 | 14.24 | .00 | 100132 | 2.1446 | -1.6770 | -.4091 | -.0024 | .0006 | -.0178 |
| 1768 | .166 | 1925 | 16.20 | .00 | 100121 | 2.2598 | -1.6628 | -.3640 | -.0024 | .0009 | -.0159 |
| 1769 | .165 | 1916 | 18.23 | .00 | 100132 | 2.4124 | -1.6729 | -.3462 | -.0024 | .0007 | -.0153 |
| 1770 | .166 | 1925 | 20.19 | .00 | 100121 | 2.5576 | -1.6675 | -.3000 | -.0012 | .0007 | -.0160 |
| 1771 | .166 | 1939 | 21.65 | .00 | 100105 | 2.6727 | -1.6633 | -.2671 | -.0005 | .0007 | -.0156 |
| 1772 | .165 | 1916 | .10 | .00 | 100132 | 1.3411 | -1.6598 | -.6857 | -.0023 | .0012 | -.0202 |
| 1773 | .165 | 1919 | .04 | -.00 | 100125 | .4667 | .0441 | -.1437 | -.0011 | -.0004 | -.0029 |

TEST 995 RUN 108

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1756 | .0352 | 0.0000 | .9769 | 24.0237 | 0.0000 | 0.0000 | 0.0000 | .0224 | .0076 |
| 1757 | .0351 | 0.0000 | .9769 | 24.0236 | 0.0000 | 0.0000 | 0.0000 | .0224 | .0076 |
| 1758 | .0745 | 28.9423 | 2.8452 | 23.0286 | 1.7859 | 1.8060 | 0.0000 | -1.7794 | .0143 |
| 1759 | -1.7998 | 29.0728 | 2.8562 | 22.9000 | 1.7979 | 1.8181 | 0.0000 | -1.7911 | .0144 |
| 1760 | .1122 | 29.1507 | 2.8655 | 22.8284 | 1.7931 | 1.8132 | 0.0000 | -1.7865 | .0142 |
| 1761 | 2.0048 | 29.2944 | 2.8804 | 22.6813 | 1.8063 | 1.8266 | 0.0000 | -1.7997 | .0141 |
| 1762 | 3.9396 | 29.3573 | 2.8822 | 22.6629 | 1.8058 | 1.8261 | 0.0000 | -1.7921 | .0138 |
| 1763 | 5.9257 | 29.3747 | 2.8879 | 22.6069 | 1.8385 | 1.8592 | 0.0000 | -1.8236 | .0140 |
| 1764 | 7.9518 | 29.3953 | 2.8867 | 22.6187 | 1.8311 | 1.8517 | 0.0000 | -1.8051 | .0143 |
| 1765 | 10.0223 | 29.4360 | 2.8944 | 22.5426 | 1.8515 | 1.8723 | 0.0000 | -1.8180 | .0152 |
| 1766 | 12.1392 | 29.4781 | 2.8953 | 22.5343 | 1.8828 | 1.9039 | 0.0000 | -1.8347 | .0165 |
| 1767 | 14.2388 | 29.5321 | 2.8972 | 22.5156 | 1.8577 | 1.8786 | 0.0000 | -1.7920 | .0191 |
| 1768 | 16.2037 | 29.5624 | 2.9052 | 22.4358 | 1.8513 | 1.8721 | 0.0000 | -1.7736 | .0214 |
| 1769 | 18.2318 | 29.5934 | 2.9100 | 22.3891 | 1.8647 | 1.8857 | 0.0000 | -1.7678 | .0239 |
| 1770 | 20.1905 | 29.6175 | 2.9075 | 22.4136 | 1.8564 | 1.8773 | 0.0000 | -1.7355 | .0263 |
| 1771 | 21.6543 | 29.6300 | 2.9097 | 22.3919 | 1.8450 | 1.8658 | 0.0000 | -1.7086 | .0275 |
| 1772 | .1001 | 29.7141 | 2.9167 | 22.3226 | 1.8748 | 1.8958 | 0.0000 | -1.8678 | .0141 |
| 1773 | .0353 | 0.0000 | .9747 | 24.0207 | 0.0000 | 0.0000 | 0.0000 | .0246 | .0077 |

TEST 995 RUN 108

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1756 | .0352 | .4626 | .0725 | -.1381 | .4626 | .0425 | -.1381 | .4626 | .0649 | -.1381 | 1.8000 |
| 1757 | .0351 | .4610 | .0723 | -.1383 | .4610 | .0423 | -.1383 | .4610 | .0647 | -.1383 | 1.8000 |
| 1758 | .0745 | 1.3121 | -1.5750 | -.6517 | 1.3098 | .1967 | -.4502 | 1.3121 | -1.5833 | -.6511 | 1.8000 |
| 1759 | -1.7998 | 1.1423 | -1.6184 | -.6886 | 1.1988 | .1642 | -.4858 | 1.1429 | -1.6149 | -.6866 | 1.8000 |
| 1760 | .1122 | 1.3189 | -1.5801 | -.6550 | 1.3154 | .1988 | -.4527 | 1.3189 | -1.5812 | -.6535 | 1.8000 |
| 1761 | 2.0048 | 1.5047 | -1.5504 | -.6261 | 1.4415 | .2408 | -.4224 | 1.5038 | -1.5381 | -.6232 | 1.8000 |
| 1762 | 3.9396 | 1.6942 | -1.5034 | -.5945 | 1.5702 | .2843 | -.3907 | 1.6925 | -1.4915 | -.5915 | 1.8000 |
| 1763 | 5.9257 | 1.9259 | -1.4690 | -.5704 | 1.7361 | .3457 | -.3630 | 1.9199 | -1.4248 | -.5638 | 1.8000 |
| 1764 | 7.9518 | 2.0817 | -1.3864 | -.5239 | 1.8284 | .4128 | -.3173 | 2.0746 | -1.3501 | -.5181 | 1.8000 |
| 1765 | 10.0223 | 2.2318 | -1.3090 | -.4883 | 1.9095 | .4990 | -.2794 | 2.2193 | -1.2538 | -.4803 | 1.8000 |
| 1766 | 12.1392 | 2.3761 | -1.2346 | -.4526 | 1.9802 | .5895 | -.2482 | 2.3545 | -1.1507 | -.4410 | 1.8000 |
| 1767 | 14.2388 | 2.4912 | -1.0979 | -.4091 | 2.0343 | .6836 | -.1995 | 2.4721 | -1.0417 | -.4004 | 1.8000 |
| 1768 | 16.2037 | 2.6340 | -.9661 | -.3640 | 2.1174 | .7903 | -.1752 | 2.6141 | -.9190 | -.3760 | 1.8000 |
| 1769 | 18.2318 | 2.8147 | -.8341 | -.3462 | 2.2313 | .9131 | -.1359 | 2.7882 | -.7775 | -.3367 | 1.8000 |
| 1770 | 20.1905 | 2.9760 | -.6823 | -.3000 | 2.3353 | 1.0337 | -.0906 | 2.9496 | -.6369 | -.2914 | 1.8000 |
| 1771 | 21.6543 | 3.0979 | -.5597 | -.2671 | 2.4171 | 1.1276 | -.0589 | 3.0739 | -.5267 | -.2597 | 1.8000 |
| 1772 | .1001 | 1.3440 | -1.6575 | -.6857 | 1.3408 | .2032 | -.4742 | 1.3439 | -1.5768 | -.6750 | 1.8000 |
| 1773 | .0353 | .4667 | .0444 | -.1437 | .4667 | .0122 | -.1437 | .4667 | .0367 | -.1437 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 109

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1776 | .167 | 1945 | .03 | -.00 | 100081 | .4135 | .0610 | -.1252 | -.0011 | .0001 | -.0014 |
| 1777 | .166 | 1922 | -1.87 | -.00 | 100184 | .2814 | .0649 | -.1591 | -.0020 | .0002 | -.0056 |
| 1778 | .166 | 1925 | .04 | -.00 | 100101 | .4133 | .0612 | -.1236 | -.0012 | .0001 | -.0025 |
| 1779 | .166 | 1925 | 1.93 | -.00 | 100101 | .5345 | .0544 | -.0905 | -.0014 | .0000 | -.0009 |
| 1780 | .168 | 1975 | 3.89 | -.00 | 100051 | .6598 | .0456 | -.0515 | -.0007 | -.0004 | -.0021 |
| 1781 | .166 | 1942 | 5.88 | -.00 | 100084 | .7910 | .0286 | -.0086 | -.0012 | -.0001 | -.0025 |
| 1782 | .166 | 1925 | 7.92 | -.00 | 100101 | .9011 | .0177 | .0376 | -.0017 | -.0005 | -.0016 |
| 1783 | .165 | 1912 | 10.01 | -.00 | 100115 | 1.0044 | .0118 | .0787 | -.0021 | -.0004 | -.0028 |
| 1784 | .166 | 1929 | 12.08 | -.00 | 100098 | 1.0985 | .0140 | .1263 | -.0014 | -.0003 | -.0007 |
| 1785 | .166 | 1925 | 14.16 | -.00 | 100101 | 1.1905 | .0221 | .1754 | -.0009 | .0001 | -.0008 |
| 1786 | .166 | 1922 | 16.16 | -.00 | 100104 | 1.2727 | .0466 | .2088 | -.0002 | -.0007 | .0014 |
| 1787 | .166 | 1929 | 18.13 | -.00 | 100094 | 1.4174 | .0552 | .2290 | -.0018 | -.0003 | .0003 |
| 1788 | .166 | 1939 | 20.17 | -.00 | 100081 | 1.5509 | .0492 | .2747 | -.0087 | -.0003 | .0030 |
| 1789 | .164 | 1882 | 21.78 | -.00 | 100138 | 1.6562 | .0451 | .3152 | -.0083 | .0003 | .0049 |
| 1790 | .167 | 1952 | .04 | -.00 | 100064 | .4121 | .0659 | -.1240 | -.0010 | .0013 | .0127 |

TEST 995 RUN 109

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1776 | .0306 | 0.0000 | .9769 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0222 | .0076 |
| 1777 | -1.8695 | 0.0000 | .9781 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0077 |
| 1778 | .0420 | 0.0000 | .9782 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0211 | .0075 |
| 1779 | 1.9314 | 0.0000 | .9782 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0211 | .0074 |
| 1780 | 3.8918 | 0.0000 | .9770 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0073 |
| 1781 | 5.8838 | 0.0000 | .9769 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0221 | .0071 |
| 1782 | 7.9186 | 0.0000 | .9793 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0069 |
| 1783 | 10.0121 | 0.0000 | .9791 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0201 | .0069 |
| 1784 | 12.0773 | 0.0000 | .9791 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0069 |
| 1785 | 14.1602 | 0.0000 | .9780 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0207 | .0068 |
| 1786 | 16.1579 | 0.0000 | .9711 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0270 | .0083 |
| 1787 | 18.1280 | 0.0000 | .9675 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0299 | .0093 |
| 1788 | 20.1675 | 0.0000 | .9666 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0302 | .0094 |
| 1789 | 21.7759 | 0.0000 | .9670 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0304 | .0098 |
| 1790 | .0398 | 0.0000 | .9800 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0191 | .0074 |

TEST 995 RUN 109

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1776 | .0306 | .4135 | .0612 | -.1252 | .4135 | .0313 | -.1252 | .4135 | .0535 | -.1252 | 1.0000 |
| 1777 | -1.8695 | .2834 | .0557 | -.1591 | .2834 | .0266 | -.1591 | .2834 | .0479 | -.1591 | 1.0000 |
| 1778 | .0420 | .4132 | .0615 | -.1236 | .4132 | .0328 | -.1236 | .4132 | .0540 | -.1236 | 1.0000 |
| 1779 | 1.9314 | .5324 | .0724 | -.0905 | .5324 | .0438 | -.0905 | .5324 | .0649 | -.0905 | 1.0000 |
| 1780 | 3.8918 | .6544 | .0902 | -.0515 | .6544 | .0613 | -.0515 | .6544 | .0829 | -.0515 | 1.0000 |
| 1781 | 5.8838 | .7839 | .1095 | -.0086 | .7839 | .0804 | -.0086 | .7839 | .1025 | -.0086 | 1.0000 |
| 1782 | 7.9186 | .8901 | .1417 | .0376 | .8901 | .1149 | .0376 | .8901 | .1348 | .0376 | 1.0000 |
| 1783 | 10.0121 | .9870 | .1862 | .0787 | .9870 | .1592 | .0787 | .9870 | .1793 | .0787 | 1.0000 |
| 1784 | 12.0773 | 1.0713 | .2435 | .1263 | 1.0713 | .2168 | .1263 | 1.0713 | .2366 | .1263 | 1.0000 |
| 1785 | 14.1602 | 1.1489 | .3126 | .1754 | 1.1489 | .2852 | .1754 | 1.1489 | .3059 | .1754 | 1.0000 |
| 1786 | 16.1579 | 1.2095 | .3989 | .2088 | 1.2095 | .3636 | .2000 | 1.2095 | .3906 | .2000 | 1.0000 |
| 1787 | 18.1280 | 1.3299 | .4935 | .2290 | 1.3299 | .4544 | .2290 | 1.3299 | .4843 | .2290 | 1.0000 |
| 1788 | 20.1675 | 1.4388 | .5809 | .2747 | 1.4388 | .5413 | .2747 | 1.4388 | .5715 | .2747 | 1.0000 |
| 1789 | 21.7759 | 1.5213 | .6563 | .3152 | 1.5213 | .6161 | .3152 | 1.5213 | .6464 | .3152 | 1.0000 |
| 1790 | .0398 | .4120 | .0662 | -.1240 | .4120 | .0397 | -.1240 | .4120 | .0569 | -.1240 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 110

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1791 | .166 | 1929 | .01 | -.00 | 100077 | .4067 | .0638 | -.1217 | -.0016 | -.0002 | -.0036 |
| 1792 | .167 | 1942 | .05 | .00 | 100067 | 1.1991 | -1.6895 | -.6239 | -.0019 | .0017 | -.0175 |
| 1793 | .165 | 1919 | -1.82 | .00 | 100088 | 1.0730 | -1.7084 | -.6616 | -.0028 | .0020 | -.0218 |
| 1794 | .166 | 1922 | .09 | .00 | 100086 | 1.2104 | -1.7133 | -.6382 | -.0023 | .0017 | -.0198 |
| 1795 | .167 | 1962 | 1.99 | .00 | 100058 | 1.2681 | -1.5972 | -.5432 | -.0013 | .0013 | -.0187 |
| 1796 | .166 | 1939 | 3.96 | .00 | 100081 | 1.4524 | -1.6846 | -.5398 | -.0011 | .0009 | -.0186 |
| 1797 | .168 | 1975 | 5.94 | .00 | 100044 | 1.5955 | -1.6827 | -.5038 | -.0011 | .0006 | -.0169 |
| 1798 | .166 | 1939 | 7.98 | .00 | 100081 | 1.7298 | -1.7253 | -.4700 | -.0019 | .0010 | -.0182 |
| 1799 | .166 | 1929 | 10.04 | .00 | 100091 | 1.8368 | -1.7384 | -.4366 | -.0014 | .0013 | -.0163 |
| 1800 | .166 | 1939 | 12.13 | .00 | 100078 | 1.9296 | -1.7296 | -.3942 | -.0015 | .0014 | -.0174 |
| 1801 | .165 | 1916 | 14.20 | .00 | 100098 | 2.0376 | -1.7418 | -.3629 | -.0021 | .0010 | -.0189 |
| 1802 | .166 | 1929 | 16.19 | .00 | 100084 | 2.1567 | -1.7221 | -.3437 | -.0024 | .0015 | -.0169 |
| 1803 | .167 | 1945 | 18.20 | .00 | 100064 | 2.3049 | -1.7097 | -.3038 | -.0023 | .0017 | -.0137 |
| 1804 | .165 | 1916 | 20.20 | .00 | 100094 | 2.4732 | -1.7414 | -.2731 | -.0009 | .0008 | -.0246 |
| 1805 | .166 | 1929 | 21.89 | .00 | 100077 | 2.6219 | -1.7359 | -.2345 | .0009 | .0014 | -.0185 |
| 1806 | .166 | 1929 | .07 | .00 | 100074 | 1.2097 | -1.7110 | -.6273 | -.0023 | .0016 | -.0186 |
| 1807 | .167 | 1955 | .02 | -.00 | 100044 | .3770 | .0297 | -.1184 | -.0004 | .0001 | -.0013 |
| 1808 | .166 | 1932 | .01 | -.00 | 100071 | .3814 | .0325 | -.1208 | -.0008 | -.0001 | -.0036 |

TEST 995 RUN 110

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1791 | .0093 | 0.0000 | .9806 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0188 | .0075 |
| 1792 | .0486 | 30.0777 | 2.9414 | 19.3513 | 1.8707 | 1.8917 | 0.0000 | -1.8650 | .0149 |
| 1793 | -1.8222 | 30.0850 | 2.9444 | 19.3287 | 1.8964 | 1.9177 | 0.0000 | -1.8898 | .0151 |
| 1794 | .0903 | 30.0854 | 2.9467 | 19.3115 | 1.8934 | 1.9146 | 0.0000 | -1.8897 | .0150 |
| 1795 | 1.9933 | 28.8153 | 2.8325 | 20.1753 | 1.7498 | 1.7695 | 0.0000 | -1.7414 | .0152 |
| 1796 | 3.9557 | 29.5284 | 2.8939 | 19.7108 | 1.8306 | 1.8512 | 0.0000 | -1.8184 | .0148 |
| 1797 | 5.9372 | 29.7351 | 2.9175 | 19.5324 | 1.8180 | 1.8384 | 0.0000 | -1.8011 | .0145 |
| 1798 | 7.9760 | 29.7378 | 2.9161 | 19.5430 | 1.8501 | 1.8709 | 0.0000 | -1.8262 | .0149 |
| 1799 | 10.0379 | 29.8017 | 2.9213 | 19.5037 | 1.8652 | 1.8862 | 0.0000 | -1.8303 | .0157 |
| 1800 | 12.1302 | 29.7966 | 2.9221 | 19.4971 | 1.8559 | 1.8767 | 0.0000 | -1.8085 | .0169 |
| 1801 | 14.1962 | 29.8277 | 2.9270 | 19.4681 | 1.8824 | 1.9036 | 0.0000 | -1.8200 | .0199 |
| 1802 | 16.1909 | 29.8618 | 2.9317 | 19.4244 | 1.8742 | 1.8953 | 0.0000 | -1.7946 | .0227 |
| 1803 | 18.2045 | 29.8741 | 2.9355 | 19.3960 | 1.8614 | 1.8823 | 0.0000 | -1.7632 | .0248 |
| 1804 | 20.1970 | 29.9088 | 2.9373 | 19.3823 | 1.8922 | 1.9135 | 0.0000 | -1.7712 | .0275 |
| 1805 | 21.8856 | 29.9360 | 2.9395 | 19.3658 | 1.8611 | 1.9022 | 0.0000 | -1.7409 | .0288 |
| 1806 | .0697 | 29.9743 | 2.9387 | 19.3715 | 1.8638 | 1.9050 | 0.0000 | -1.8753 | .0148 |
| 1807 | .0195 | .5901 | .9797 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0194 | .0075 |
| 1808 | .0148 | .4498 | .9778 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0214 | .0074 |

TEST 995 RUN 110

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1791 | .0093 | .4067 | .0639 | -.1217 | .4067 | .0376 | -.1217 | .4067 | .0564 | -.1217 | 1.0000 |
| 1792 | .0486 | 1.2005 | -1.6885 | -.6239 | 1.1989 | .1673 | -.4128 | 1.2004 | -1.6127 | -.6136 | 1.8000 |
| 1793 | -1.8222 | 1.0181 | -1.7416 | -.6616 | 1.0784 | .1386 | -.4476 | 1.0218 | -1.6405 | -.6484 | 1.8000 |
| 1794 | .0903 | 1.2131 | -1.7114 | -.6302 | 1.2181 | .1670 | -.4166 | 1.2129 | -1.6130 | -.6174 | 1.8000 |
| 1795 | 1.9933 | 1.3229 | -1.5521 | -.5432 | 1.2620 | .1815 | -.3458 | 1.3240 | -1.5974 | -.5466 | 1.8000 |
| 1796 | 3.9557 | 1.5652 | -1.5804 | -.5398 | 1.4389 | .2311 | -.3332 | 1.5617 | -1.5447 | -.5341 | 1.8000 |
| 1797 | 5.9372 | 1.7610 | -1.5086 | -.5038 | 1.5729 | .2851 | -.2987 | 1.7570 | -1.4853 | -.4995 | 1.8000 |
| 1798 | 7.9760 | 1.9525 | -1.4686 | -.4700 | 1.6958 | .3487 | -.2613 | 1.9428 | -1.4141 | -.4621 | 1.8000 |
| 1799 | 10.0379 | 2.1109 | -1.3918 | -.4366 | 1.7858 | .4292 | -.2262 | 2.0960 | -1.3236 | -.4270 | 1.8000 |
| 1800 | 12.1302 | 2.2500 | -1.2855 | -.3942 | 1.8600 | .5121 | -.1848 | 2.2341 | -1.2282 | -.3856 | 1.8000 |
| 1801 | 14.1962 | 2.4025 | -1.1889 | -.3629 | 1.9409 | .6161 | -.1505 | 2.3774 | -1.1095 | -.3513 | 1.8000 |
| 1802 | 16.1909 | 2.5533 | -1.0518 | -.3437 | 2.0307 | .7254 | -.1323 | 2.5270 | -.9840 | -.3331 | 1.8000 |
| 1803 | 18.2045 | 2.7236 | -.9040 | -.3038 | 2.1421 | .8393 | -.0938 | 2.6982 | -.8516 | -.2946 | 1.8000 |
| 1804 | 20.1970 | 2.9223 | -.7804 | -.2731 | 2.2690 | .9679 | -.0596 | 2.8836 | -.7026 | -.2604 | 1.8000 |
| 1805 | 21.8856 | 3.0800 | -.6335 | -.2345 | 2.3788 | 1.0832 | -.0223 | 3.0423 | -.5686 | -.2231 | 1.8000 |
| 1806 | .0697 | 1.2118 | -1.7095 | -.6273 | 1.2095 | .1595 | -.4148 | 1.2117 | -1.6205 | -.6156 | 1.8000 |
| 1807 | .0195 | .3770 | .0298 | -.1184 | .3770 | .0029 | -.1184 | .3770 | .0223 | -.1184 | 1.0000 |
| 1808 | .0148 | .3814 | .0326 | -.1208 | .3814 | .0037 | -.1208 | .3814 | .0251 | -.1208 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 109

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1776 | .167 | 1945 | .03 | -.00 | 100081 | .4135 | .0610 | -.1252 | -.0011 | .0001 | -.0014 |
| 1777 | .166 | 1922 | -1.87 | -.00 | 100104 | .2814 | .0649 | -.1591 | -.0020 | .0002 | -.0056 |
| 1778 | .166 | 1925 | .04 | -.00 | 100101 | .4133 | .0612 | -.1236 | -.0012 | .0001 | -.0025 |
| 1779 | .166 | 1925 | 1.93 | -.00 | 100101 | .5345 | .0544 | -.0905 | -.0014 | .0000 | -.0009 |
| 1780 | .168 | 1975 | 3.89 | -.00 | 100051 | .6598 | .0456 | -.0515 | -.0007 | -.0004 | -.0021 |
| 1781 | .166 | 1942 | 5.88 | -.00 | 100084 | .7910 | .0286 | -.0086 | -.0012 | -.0001 | -.0025 |
| 1782 | .166 | 1925 | 7.92 | -.00 | 100101 | .9011 | .0177 | .0376 | -.0017 | -.0005 | -.0016 |
| 1783 | .165 | 1912 | 10.01 | -.00 | 100115 | 1.0044 | .0118 | .0787 | -.0021 | -.0004 | -.0028 |
| 1784 | .166 | 1929 | 12.08 | -.00 | 100098 | 1.0985 | .0140 | .1263 | -.0014 | -.0003 | -.0007 |
| 1785 | .166 | 1925 | 14.16 | -.00 | 100101 | 1.1905 | .0221 | .1754 | -.0009 | .0001 | -.0008 |
| 1786 | .166 | 1922 | 16.16 | -.00 | 100104 | 1.2727 | .0466 | .2088 | -.0002 | -.0007 | .0014 |
| 1787 | .166 | 1929 | 18.13 | -.00 | 100094 | 1.4174 | .0552 | .2290 | -.0018 | -.0003 | .0003 |
| 1788 | .166 | 1939 | 20.17 | -.00 | 100081 | 1.5509 | .0492 | .2747 | -.0007 | -.0003 | .0030 |
| 1789 | .164 | 1882 | 21.78 | -.00 | 100138 | 1.6562 | .0451 | .3152 | -.0003 | .0003 | .0049 |
| 1790 | .167 | 1952 | .04 | -.00 | 100064 | .4121 | .0659 | -.1240 | -.0010 | .0013 | .0127 |

TEST 995 RUN 109

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1776 | .0306 | 0.0000 | .9769 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0222 | .0076 |
| 1777 | -1.8695 | 0.0000 | .9781 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0077 |
| 1778 | .0420 | 0.0000 | .9782 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0211 | .0075 |
| 1779 | 1.9314 | 0.0000 | .9782 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0211 | .0074 |
| 1780 | 3.8918 | 0.0000 | .9770 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0073 |
| 1781 | 5.8838 | 0.0000 | .9769 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0221 | .0071 |
| 1782 | 7.9186 | 0.0000 | .9793 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0069 |
| 1783 | 10.0121 | 0.0000 | .9791 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0201 | .0069 |
| 1784 | 12.0773 | 0.0000 | .9791 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0069 |
| 1785 | 14.1602 | 0.0000 | .9780 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0207 | .0068 |
| 1786 | 16.1579 | 0.0000 | .9711 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0270 | .0083 |
| 1787 | 18.1280 | 0.0000 | .9675 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0299 | .0093 |
| 1788 | 20.1675 | 0.0000 | .9666 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0302 | .0094 |
| 1789 | 21.7759 | 0.0000 | .9670 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0304 | .0098 |
| 1790 | .0398 | 0.0000 | .9800 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0191 | .0074 |

TEST 995 RUN 109

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1776 | .0306 | .4135 | .0612 | -.1252 | .4135 | .0313 | -.1252 | .4135 | .0535 | -.1252 | 1.0000 |
| 1777 | -1.8695 | .2834 | .0557 | -.1591 | .2834 | .0266 | -.1591 | .2834 | .0479 | -.1591 | 1.0000 |
| 1778 | .0420 | .4132 | .0615 | -.1236 | .4132 | .0328 | -.1236 | .4132 | .0540 | -.1236 | 1.0000 |
| 1779 | 1.9314 | .5324 | .0724 | -.0905 | .5324 | .0438 | -.0905 | .5324 | .0649 | -.0905 | 1.0000 |
| 1780 | 3.8918 | .6544 | .0902 | -.0515 | .6544 | .0613 | -.0515 | .6544 | .0829 | -.0515 | 1.0000 |
| 1781 | 5.8838 | .7839 | .1095 | -.0086 | .7839 | .0804 | -.0086 | .7839 | .1025 | -.0086 | 1.0000 |
| 1782 | 7.9186 | .8901 | .1417 | .0376 | .8901 | .1149 | .0376 | .8901 | .1348 | .0376 | 1.0000 |
| 1783 | 10.0121 | .9870 | .1862 | .0787 | .9870 | .1592 | .0787 | .9870 | .1793 | .0787 | 1.0000 |
| 1784 | 12.0773 | 1.0713 | .2435 | .1263 | 1.0713 | .2168 | .1263 | 1.0713 | .2366 | .1263 | 1.0000 |
| 1785 | 14.1602 | 1.1489 | .3126 | .1754 | 1.1489 | .2852 | .1754 | 1.1489 | .3059 | .1754 | 1.0000 |
| 1786 | 16.1579 | 1.2095 | .3989 | .2088 | 1.2095 | .3636 | .2000 | 1.2095 | .3906 | .2000 | 1.0000 |
| 1787 | 18.1280 | 1.3299 | .4935 | .2290 | 1.3299 | .4544 | .2290 | 1.3299 | .4843 | .2290 | 1.0000 |
| 1788 | 20.1675 | 1.4388 | .5809 | .2747 | 1.4388 | .5413 | .2747 | 1.4388 | .5715 | .2747 | 1.0000 |
| 1789 | 21.7759 | 1.5213 | .6563 | .3152 | 1.5213 | .6161 | .3152 | 1.5213 | .6464 | .3152 | 1.0000 |
| 1790 | .0398 | .4120 | .0662 | -.1240 | .4120 | .0397 | -.1240 | .4120 | .0589 | -.1240 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 111

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1811 | .166 | 1932 | .01 | -.00 | 100159 | .3069 | .0856 | -.1220 | -.0012 | .0001 | -.0025 |
| 1812 | .165 | 1899 | -1.86 | -.00 | 100192 | .1506 | .1019 | -.1432 | -.0017 | .0004 | -.0044 |
| 1813 | .167 | 1949 | 1.93 | -.00 | 100142 | .4631 | .0727 | -.0985 | -.0019 | .0001 | .0002 |
| 1814 | .166 | 1935 | 3.89 | -.00 | 100155 | .6064 | .0541 | -.0711 | -.0019 | .0001 | .0004 |
| 1815 | .166 | 1932 | 5.91 | -.00 | 100159 | .7344 | .0272 | -.0308 | -.0014 | -.0002 | -.0017 |
| 1816 | .169 | 1995 | 7.93 | -.00 | 100092 | .8395 | -.0008 | .0130 | -.0016 | -.0003 | -.0019 |
| 1817 | .166 | 1939 | 10.00 | -.00 | 100152 | .9542 | -.0314 | .0584 | -.0023 | -.0006 | -.0017 |
| 1818 | .168 | 1982 | 12.10 | -.00 | 100109 | 1.0600 | -.0642 | .1055 | -.0028 | -.0009 | -.0015 |
| 1819 | .167 | 1955 | 14.17 | -.00 | 100129 | 1.1784 | -.0965 | .1575 | -.0029 | -.0014 | -.0003 |
| 1820 | .165 | 1909 | 16.18 | -.00 | 100175 | 1.2989 | -.1273 | .2119 | -.0016 | -.0009 | -.0007 |
| 1821 | .165 | 1912 | 18.19 | -.00 | 100172 | 1.4157 | -.1238 | .2568 | .0010 | -.0004 | -.0031 |
| 1822 | .165 | 1916 | 20.17 | -.00 | 100169 | 1.5015 | -.1013 | .3040 | -.0010 | -.0011 | .0052 |
| 1823 | .165 | 1912 | 21.85 | -.00 | 100172 | 1.5502 | -.0731 | .3427 | -.0019 | -.0009 | -.0044 |
| 1824 | .167 | 1952 | .05 | -.00 | 100132 | .3108 | .0906 | -.1217 | -.0007 | -.0002 | -.0051 |

TEST 995 RUN 111

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1811 | .0138 | 0.0000 | .9787 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0074 |
| 1812 | -1.8635 | 0.0000 | .9799 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0076 |
| 1813 | 1.9312 | 0.0000 | .9784 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0207 | .0071 |
| 1814 | 3.8916 | 0.0000 | .9791 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0201 | .0072 |
| 1815 | 5.9051 | 0.0000 | .9799 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0069 |
| 1816 | 7.9292 | 0.0000 | .9800 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0185 | .0064 |
| 1817 | 10.0030 | 0.0000 | .9823 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0168 | .0066 |
| 1818 | 12.0976 | 0.0000 | .9819 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0167 | .0067 |
| 1819 | 14.1749 | 0.0000 | .9814 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0172 | .0069 |
| 1820 | 16.1768 | 0.0000 | .9818 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0171 | .0075 |
| 1821 | 18.1886 | 0.0000 | .9805 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0181 | .0077 |
| 1822 | 20.1672 | 0.0000 | .9793 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0190 | .0071 |
| 1823 | 21.8487 | 0.0000 | .9747 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0229 | .0068 |
| 1824 | .0467 | 0.0000 | .9819 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0173 | .0076 |

TEST 995 RUN 111

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1811 | .0138 | .3069 | .0857 | -.1220 | .3069 | .0576 | -.1220 | .3069 | .0783 | -.1220 | 1.0000 |
| 1812 | -1.8635 | .1538 | .0970 | -.1432 | .1538 | .0696 | -.1432 | .1538 | .0893 | -.1432 | 1.0000 |
| 1813 | 1.9312 | .4604 | .0882 | -.0985 | .4604 | .0604 | -.0985 | .4604 | .0811 | -.0985 | 1.0000 |
| 1814 | 3.8916 | .6013 | .0951 | -.0711 | .6013 | .0678 | -.0711 | .6013 | .0879 | -.0711 | 1.0000 |
| 1815 | 5.9051 | .7277 | .1026 | -.0308 | .7277 | .0764 | -.0308 | .7277 | .0957 | -.0308 | 1.0000 |
| 1816 | 7.9292 | .8316 | .1151 | .0130 | .8316 | .0901 | .0130 | .8316 | .1086 | .0130 | 1.0000 |
| 1817 | 10.0030 | .9451 | .1349 | .0584 | .9451 | .1115 | .0584 | .9451 | .1283 | .0584 | 1.0000 |
| 1818 | 12.0976 | 1.0499 | .1594 | .1055 | 1.0499 | .1360 | .1055 | 1.0499 | .1527 | .1055 | 1.0000 |
| 1819 | 14.1749 | 1.1662 | .1950 | .1575 | 1.1662 | .1709 | .1575 | 1.1662 | .1881 | .1575 | 1.0000 |
| 1820 | 16.1768 | 1.2829 | .2396 | .2119 | 1.2829 | .2150 | .2119 | 1.2829 | .2321 | .2119 | 1.0000 |
| 1821 | 18.1886 | 1.3836 | .3243 | .2568 | 1.3836 | .2985 | .2568 | 1.3836 | .3166 | .2568 | 1.0000 |
| 1822 | 20.1672 | 1.4443 | .4226 | .3040 | 1.4443 | .3965 | .3040 | 1.4443 | .4155 | .3040 | 1.0000 |
| 1823 | 21.8487 | 1.4660 | .5090 | .3427 | 1.4660 | .4793 | .3427 | 1.4660 | .5023 | .3427 | 1.0000 |
| 1824 | .0467 | .3107 | .0908 | -.1217 | .3107 | .0660 | -.1217 | .3107 | .0833 | -.1217 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 112

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1825 | .166 | 1929 | .02 | -.00 | 100162 | .2961 | .0851 | -.1181 | -.0004 | -.0019 | .0186 |
| 1826 | .167 | 1955 | .05 | .00 | 100139 | 1.0308 | -1.5664 | -.5737 | -.0024 | .0024 | -.0297 |
| 1827 | .166 | 1935 | -1.83 | .00 | 100155 | .8782 | -1.5712 | -.5972 | -.0014 | .0023 | -.0290 |
| 1828 | .166 | 1942 | .08 | .00 | 100149 | 1.0451 | -1.5868 | -.5783 | -.0024 | .0011 | -.0154 |
| 1829 | .165 | 1919 | 1.99 | .00 | 100162 | 1.2232 | -1.6247 | -.5688 | -.0016 | .0014 | -.0238 |
| 1830 | .166 | 1932 | 3.95 | .00 | 100162 | 1.3726 | -1.6406 | -.5414 | -.0019 | .0007 | -.0213 |
| 1831 | .167 | 1955 | 5.93 | .00 | 100135 | 1.5103 | -1.6451 | -.5030 | -.0006 | .0013 | -.0209 |
| 1832 | .166 | 1935 | 7.96 | .00 | 100155 | 1.6499 | -1.6915 | -.4734 | -.0007 | .0014 | -.0203 |
| 1833 | .166 | 1935 | 10.01 | .00 | 100155 | 1.7780 | -1.7307 | -.4356 | -.0017 | .0010 | -.0201 |
| 1834 | .166 | 1929 | 12.09 | .00 | 100162 | 1.8953 | -1.7720 | -.3983 | -.0031 | .0003 | -.0186 |
| 1835 | .167 | 1949 | 14.23 | .00 | 100142 | 2.0219 | -1.7932 | -.3335 | -.0005 | .0002 | -.0180 |
| 1836 | .165 | 1916 | 16.22 | .00 | 100176 | 2.1549 | -1.8515 | -.2891 | -.0022 | .0003 | -.0224 |
| 1837 | .166 | 1922 | 18.20 | .00 | 100169 | 2.2817 | -1.8232 | -.2365 | .0026 | .0013 | -.0193 |
| 1838 | .166 | 1935 | 20.22 | .00 | 100155 | 2.3532 | -1.7911 | -.2185 | -.0001 | .0021 | -.0200 |
| 1839 | .166 | 1932 | 21.89 | .00 | 100159 | 2.4756 | -1.7690 | -.2086 | -.0011 | .0021 | -.0207 |
| 1840 | .166 | 1929 | .07 | .00 | 100162 | 1.0720 | -1.6307 | -.6025 | -.0021 | .0014 | -.0224 |
| 1841 | .167 | 1945 | .02 | -.00 | 100145 | .2612 | .0554 | -.1121 | -.0005 | -.0000 | -.0024 |

TEST 995 RUN 112

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1825 | .0179 | .0852 | .9821 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0173 | .0075 |
| 1826 | .0464 | 29.0692 | 2.8184 | 20.2825 | 1.7648 | 1.7846 | 0.0000 | -1.7362 | .0152 |
| 1827 | -1.8316 | 29.0814 | 2.8236 | 20.2430 | 1.7655 | 1.8055 | 0.0000 | -1.7584 | .0154 |
| 1828 | .0840 | 29.0934 | 2.8267 | 20.2198 | 1.7833 | 1.8033 | 0.0000 | -1.7562 | .0153 |
| 1829 | 1.9851 | 29.1111 | 2.8285 | 20.2056 | 1.8065 | 1.8268 | 0.0000 | -1.7783 | .0152 |
| 1830 | 3.9519 | 29.1732 | 2.8351 | 20.1561 | 1.8017 | 1.8220 | 0.0000 | -1.7693 | .0149 |
| 1831 | 5.9278 | 29.1636 | 2.8365 | 20.1454 | 1.7798 | 1.7998 | 0.0000 | -1.7441 | .0147 |
| 1832 | 7.9605 | 29.1991 | 2.8403 | 20.1166 | 1.8016 | 1.8218 | 0.0000 | -1.7583 | .0146 |
| 1833 | 10.0134 | 29.2709 | 2.8522 | 20.0261 | 1.8106 | 1.8309 | 0.0000 | -1.7598 | .0144 |
| 1834 | 12.0948 | 29.3047 | 2.8521 | 20.0273 | 1.8185 | 1.8389 | 0.0000 | -1.7533 | .0146 |
| 1835 | 14.2330 | 29.3365 | 2.8551 | 20.0047 | 1.8031 | 1.8233 | 0.0000 | -1.7228 | .0155 |
| 1836 | 16.2224 | 29.3511 | 2.8590 | 19.9748 | 1.8379 | 1.8585 | 0.0000 | -1.7403 | .0171 |
| 1837 | 18.2049 | 29.3676 | 2.8585 | 19.9791 | 1.8308 | 1.8513 | 0.0000 | -1.7152 | .0202 |
| 1838 | 20.2156 | 29.4006 | 2.8633 | 19.9424 | 1.8241 | 1.8446 | 0.0000 | -1.6869 | .0244 |
| 1839 | 21.8903 | 29.4138 | 2.8642 | 19.9356 | 1.8259 | 1.8464 | 0.0000 | -1.6717 | .0289 |
| 1840 | .0728 | 29.4636 | 2.8678 | 19.9086 | 1.8352 | 1.8558 | 0.0000 | -1.8083 | .0151 |
| 1841 | .0185 | .7741 | .9792 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0199 | .0074 |

TEST 995 RUN 112

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1825 | .0179 | .2960 | .0851 | -.1181 | .2960 | .0604 | -.1181 | .2960 | .0777 | -.1181 | 1.0000 |
| 1826 | .0464 | 1.0321 | -1.5656 | -.5737 | 1.0307 | .1848 | -.3746 | 1.0321 | -1.5960 | -.5755 | 1.0000 |
| 1827 | -1.8316 | .8276 | -1.5985 | -.5972 | .8846 | .1706 | -.3957 | .8278 | -1.6085 | -.5966 | 1.0000 |
| 1828 | .0840 | 1.0474 | -1.5852 | -.5783 | 1.0448 | .1828 | -.3772 | 1.0474 | -1.5972 | -.5780 | 1.0000 |
| 1829 | 1.9851 | 1.2787 | -1.5814 | -.5688 | 1.2161 | .2889 | -.3650 | 1.2778 | -1.5701 | -.5658 | 1.0000 |
| 1830 | 3.9519 | 1.4824 | -1.5421 | -.5414 | 1.3583 | .2405 | -.3381 | 1.4809 | -1.5353 | -.5389 | 1.0000 |
| 1831 | 5.9278 | 1.6722 | -1.4803 | -.5030 | 1.4883 | .2753 | -.3022 | 1.6722 | -1.4952 | -.5030 | 1.0000 |
| 1832 | 7.9605 | 1.8683 | -1.4467 | -.4734 | 1.6188 | .3230 | -.2701 | 1.8653 | -1.4399 | -.4709 | 1.0000 |
| 1833 | 10.0134 | 2.0519 | -1.3952 | -.4356 | 1.7371 | .3734 | -.2313 | 2.0466 | -1.3795 | -.4321 | 1.0000 |
| 1834 | 12.0948 | 2.2245 | -1.3356 | -.3903 | 1.8435 | .4279 | -.1852 | 2.2164 | -1.3126 | -.3860 | 1.0000 |
| 1835 | 14.2330 | 2.4007 | -1.2411 | -.3335 | 1.9574 | .4911 | -.1301 | 2.3951 | -1.2342 | -.3309 | 1.0000 |
| 1836 | 16.2224 | 2.5863 | -1.1758 | -.2891 | 2.0729 | .5718 | -.0818 | 2.5702 | -1.1373 | -.2826 | 1.0000 |
| 1837 | 18.2049 | 2.6706 | -1.0409 | -.2365 | 2.0987 | .6788 | -.0300 | 2.6548 | -1.0129 | -.2308 | 1.0000 |
| 1838 | 20.2156 | 2.8272 | -.8676 | -.2185 | 2.1969 | .8197 | -.0127 | 2.8120 | -.8507 | -.2135 | 1.0000 |
| 1839 | 21.8903 | 2.9566 | -.7185 | -.2086 | 2.2759 | .9468 | -.0026 | 2.9395 | -.7049 | -.2034 | 1.0000 |
| 1840 | .0728 | 1.0741 | -1.6294 | -.6025 | 1.0718 | .1907 | -.3955 | 1.0740 | -1.5893 | -.5963 | 1.0000 |
| 1841 | .0185 | .2612 | .0555 | -.1121 | .2612 | .0282 | -.1121 | .2612 | .0481 | -.1121 | 1.0000 |

TEST 995 NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL RUN 113

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1842 | .166 | 1932 | .02 | -.00 | 100155 | .3069 | .0679 | -.1235 | -.0009 | .0000 | -.0038 |
| 1846 | .166 | 1939 | .00 | -.00 | 100183 | .0465 | .0710 | -.0397 | -.0020 | -.0001 | -.0032 |
| 1847 | .166 | 1935 | -1.87 | -.00 | 100189 | -.0965 | .0844 | -.0711 | -.0013 | .0003 | -.0067 |
| 1848 | .166 | 1939 | .07 | -.00 | 100186 | .0477 | .0760 | -.0387 | -.0012 | -.0001 | -.0000 |
| 1849 | .167 | 1945 | 1.95 | -.00 | 100179 | .1938 | .0579 | -.0134 | -.0013 | .0001 | -.0043 |
| 1850 | .166 | 1932 | 3.89 | -.00 | 100193 | .3446 | .0415 | .0147 | -.0021 | -.0002 | -.0039 |
| 1851 | .165 | 1919 | 5.90 | -.00 | 100206 | .4853 | .0157 | .0478 | -.0028 | -.0006 | -.0023 |
| 1852 | .166 | 1932 | 7.92 | -.00 | 100193 | .6082 | -.0113 | .0875 | -.0018 | -.0003 | -.0005 |
| 1853 | .166 | 1932 | 9.96 | -.00 | 100189 | .7324 | -.0371 | .1237 | -.0013 | -.0003 | .0003 |
| 1854 | .166 | 1932 | 12.07 | -.00 | 100189 | .8628 | -.0685 | .1671 | -.0023 | -.0005 | .0029 |
| 1855 | .166 | 1932 | 14.16 | -.00 | 100189 | .9783 | -.0984 | .2149 | -.0033 | -.0012 | .0055 |
| 1856 | .166 | 1922 | 16.13 | -.00 | 100196 | 1.1056 | -.1257 | .2621 | -.0039 | -.0010 | .0033 |
| 1857 | .167 | 1945 | 18.16 | -.00 | 100172 | 1.2215 | -.1493 | .3135 | -.0008 | -.0010 | .0032 |
| 1858 | .165 | 1899 | 20.14 | -.00 | 100219 | 1.3371 | -.1446 | .3591 | -.0008 | -.0006 | .0040 |
| 1859 | .165 | 1912 | 21.83 | -.00 | 100206 | 1.4012 | -.1228 | .3935 | -.0020 | -.0003 | .0051 |
| 1860 | .166 | 1925 | .02 | .00 | 100189 | .0469 | .0783 | -.0392 | -.0018 | -.0007 | -.0081 |

TEST 995 RUN 113

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1842 | .0162 | 0.0000 | .9763 | 4.4574 | 0.0000 | 0.0000 | 0.0000 | .0229 | .0075 |
| 1846 | .0032 | 0.0000 | .9823 | 4.4681 | 0.0000 | 0.0000 | 0.0000 | .0171 | .0074 |
| 1847 | -1.8654 | 0.0000 | .9833 | 4.4700 | 0.0000 | 0.0000 | 0.0000 | .0161 | .0074 |
| 1848 | .0657 | 0.0000 | .9840 | 4.4713 | 0.0000 | 0.0000 | 0.0000 | .0154 | .0073 |
| 1849 | 1.9489 | 0.0000 | .9840 | 4.4712 | 0.0000 | 0.0000 | 0.0000 | .0153 | .0074 |
| 1850 | 3.8856 | 0.0000 | .9856 | 4.4741 | 0.0000 | 0.0000 | 0.0000 | .0139 | .0075 |
| 1851 | 5.8970 | 0.0000 | .9860 | 4.4748 | 0.0000 | 0.0000 | 0.0000 | .0136 | .0071 |
| 1852 | 7.9155 | 0.0000 | .9870 | 4.4766 | 0.0000 | 0.0000 | 0.0000 | .0124 | .0070 |
| 1853 | 9.9589 | 0.0000 | .9861 | 4.4750 | 0.0000 | 0.0000 | 0.0000 | .0132 | .0071 |
| 1854 | 12.0663 | 0.0000 | .9869 | 4.4764 | 0.0000 | 0.0000 | 0.0000 | .0124 | .0074 |
| 1855 | 14.1639 | 0.0000 | .9868 | 4.4762 | 0.0000 | 0.0000 | 0.0000 | .0124 | .0077 |
| 1856 | 16.1312 | 0.0000 | .9864 | 4.4756 | 0.0000 | 0.0000 | 0.0000 | .0127 | .0081 |
| 1857 | 18.1556 | 0.0000 | .9861 | 4.4750 | 0.0000 | 0.0000 | 0.0000 | .0127 | .0082 |
| 1858 | 20.1396 | 0.0000 | .9854 | 4.4737 | 0.0000 | 0.0000 | 0.0000 | .0135 | .0078 |
| 1859 | 21.8252 | 0.0000 | .9837 | 4.4706 | 0.0000 | 0.0000 | 0.0000 | .0148 | .0072 |
| 1860 | .0217 | 0.0000 | .9899 | 4.4819 | 0.0000 | 0.0000 | 0.0000 | .0098 | .0075 |

TEST 995 RUN 113

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1842 | .0162 | .3069 | .0580 | -.1235 | .3069 | .0376 | -.1235 | .3069 | .0604 | -.1235 | 1.0000 |
| 1846 | .0032 | .0465 | .0710 | -.0397 | .0465 | .0465 | -.0397 | .0465 | .0676 | -.0397 | 1.0000 |
| 1847 | -1.8654 | -.0937 | .0875 | -.0711 | -.0937 | .0640 | -.0711 | -.0937 | .0801 | -.0711 | 1.0000 |
| 1848 | .0657 | .0476 | .0760 | -.0387 | .0476 | .0533 | -.0387 | .0476 | .0687 | -.0387 | 1.0000 |
| 1849 | 1.9489 | .1917 | .0644 | -.0134 | .1917 | .0417 | -.0134 | .1917 | .0570 | -.0134 | 1.0000 |
| 1850 | 3.8856 | .3410 | .0648 | .0147 | .3410 | .0434 | .0147 | .3410 | .0572 | .0147 | 1.0000 |
| 1851 | 5.8970 | .4812 | .0655 | .0470 | .4812 | .0448 | .0470 | .4812 | .0584 | .0470 | 1.0000 |
| 1852 | 7.9155 | .6039 | .0726 | .0875 | .6039 | .0532 | .0875 | .6839 | .0656 | .0875 | 1.0000 |
| 1853 | 9.9589 | .7278 | .0902 | .1237 | .7278 | .0699 | .1237 | .7278 | .0831 | .1237 | 1.0000 |
| 1854 | 12.0663 | .8581 | .1134 | .1671 | .8581 | .0936 | .1671 | .8581 | .1060 | .1671 | 1.0000 |
| 1855 | 14.1639 | .9727 | .1439 | .2149 | .9727 | .1238 | .2149 | .9727 | .1362 | .2149 | 1.0000 |
| 1856 | 16.1312 | 1.0970 | .1864 | .2621 | 1.0970 | .1657 | .2621 | 1.0970 | .1784 | .2621 | 1.0000 |
| 1857 | 18.1556 | 1.2072 | .2388 | .3135 | 1.2072 | .2179 | .3135 | 1.2072 | .2306 | .3135 | 1.0000 |
| 1858 | 20.1396 | 1.3051 | .3247 | .3591 | 1.3051 | .3034 | .3591 | 1.3051 | .3169 | .3591 | 1.0000 |
| 1859 | 21.8252 | 1.3465 | .4070 | .3935 | 1.3465 | .3849 | .3935 | 1.3465 | .3997 | .3935 | 1.0000 |
| 1860 | .0217 | .0469 | .0783 | -.0392 | .0469 | .0611 | -.0392 | .0469 | .0709 | -.0392 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 114

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1862 | .167 | 1945 | .01 | -.00 | 100169 | .0155 | .0729 | -.0291 | -.0089 | -.0000 | -.0057 |
| 1863 | .166 | 1932 | .02 | .00 | 100169 | .2720 | -1.6366 | -.2389 | -.0041 | -.0009 | -.0108 |
| 1864 | .167 | 1955 | -1.85 | .00 | 100166 | .1248 | -1.6066 | -.2657 | -.0038 | -.0003 | -.0173 |
| 1865 | .165 | 1919 | .06 | .00 | 100203 | .2833 | -1.6554 | -.2404 | -.0041 | -.0008 | -.0119 |
| 1866 | .165 | 1912 | 1.96 | .00 | 100209 | .4353 | -1.6773 | -.2176 | -.0041 | -.0008 | -.0129 |
| 1867 | .166 | 1925 | 3.92 | .00 | 100196 | .6047 | -1.6870 | -.1952 | -.0044 | -.0009 | -.0138 |
| 1868 | .166 | 1939 | 5.92 | .00 | 100183 | .7684 | -1.7021 | -.1692 | -.0043 | -.0014 | -.0147 |
| 1869 | .166 | 1925 | 7.94 | .00 | 100196 | .9232 | -1.7418 | -.1379 | -.0034 | -.0007 | -.0154 |
| 1870 | .166 | 1929 | 10.01 | .00 | 100193 | 1.0682 | -1.7703 | -.1069 | -.0038 | -.0010 | -.0143 |
| 1871 | .167 | 1962 | 12.10 | .00 | 100169 | 1.2051 | -1.7755 | -.0704 | -.0044 | -.0015 | -.0107 |
| 1872 | .166 | 1932 | 14.16 | .00 | 100189 | 1.3564 | -1.8486 | -.0320 | -.0064 | -.0028 | -.0049 |
| 1873 | .166 | 1939 | 16.19 | .00 | 100179 | 1.4840 | -1.8678 | .0104 | -.0052 | -.0020 | -.0131 |
| 1874 | .166 | 1929 | 18.19 | .00 | 100189 | 1.6318 | -1.9019 | .0504 | -.0043 | -.0025 | -.0129 |
| 1875 | .166 | 1932 | 20.18 | .00 | 100186 | 1.7720 | -1.8821 | .0695 | -.0022 | -.0018 | -.0119 |
| 1876 | .166 | 1932 | 21.85 | .00 | 100189 | 1.9167 | -1.8651 | .0728 | -.0044 | -.0016 | -.0133 |
| 1877 | .167 | 1965 | .03 | .00 | 100156 | .2729 | -1.6310 | -.2410 | -.0042 | -.0011 | -.0162 |
| 1878 | .167 | 1945 | .01 | .00 | 100183 | -.0167 | .0569 | -.0231 | -.0015 | -.0003 | -.0110 |
| 1879 | .166 | 1929 | .00 | .00 | 100196 | .0468 | .0665 | -.0393 | -.0017 | -.0001 | -.0091 |

TEST 995 RUN 114

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1862 | .0109 | 0.0000 | .9889 | 4.4800 | 0.0000 | 0.0000 | 0.0000 | .0107 | .0075 |
| 1863 | .0160 | 28.8768 | 2.8225 | 7.7805 | 1.7742 | 1.7942 | 0.0000 | -1.7619 | .0364 |
| 1864 | -1.8472 | 28.8891 | 2.8270 | 7.7885 | 1.7567 | 1.7764 | 0.0000 | -1.7440 | .0362 |
| 1865 | .0560 | 28.8823 | 2.8249 | 7.7849 | 1.7908 | 1.8110 | 0.0000 | -1.7766 | .0366 |
| 1866 | 1.9632 | 28.8969 | 2.8285 | 7.7912 | 1.7983 | 1.8185 | 0.0000 | -1.7853 | .0366 |
| 1867 | 3.9202 | 28.9061 | 2.8303 | 7.7946 | 1.7912 | 1.8113 | 0.0000 | -1.7715 | .0363 |
| 1868 | 5.9191 | 28.9190 | 2.8331 | 7.7996 | 1.7798 | 1.7998 | 0.0000 | -1.7566 | .0361 |
| 1869 | 7.9446 | 28.8999 | 2.8340 | 7.8011 | 1.7919 | 1.8120 | 0.0000 | -1.7621 | .0359 |
| 1870 | 10.0078 | 28.9318 | 2.8396 | 7.8112 | 1.7936 | 1.8140 | 0.0000 | -1.7544 | .0347 |
| 1871 | 12.0981 | 28.9418 | 2.8361 | 7.8050 | 1.7641 | 1.7839 | 0.0000 | -1.7090 | .0322 |
| 1872 | 14.1598 | 28.8634 | 2.8350 | 7.8031 | 1.7874 | 1.8075 | 0.0000 | -1.7201 | .0305 |
| 1873 | 16.1865 | 28.9345 | 2.8460 | 7.8228 | 1.7888 | 1.8089 | 0.0000 | -1.7079 | .0297 |
| 1874 | 18.1887 | 28.9505 | 2.8425 | 7.8165 | 1.8000 | 1.8202 | 0.0000 | -1.6951 | .0309 |
| 1875 | 20.1803 | 28.9825 | 2.8478 | 7.8260 | 1.8012 | 1.8214 | 0.0000 | -1.6766 | .0325 |
| 1876 | 21.8549 | 29.0049 | 2.8521 | 7.8338 | 1.8028 | 1.8231 | 0.0000 | -1.6618 | .0335 |
| 1877 | .0324 | 28.9261 | 2.8439 | 7.8190 | 1.7878 | 1.7876 | 0.0000 | -1.7520 | .0365 |
| 1878 | .0068 | .6354 | .9819 | 4.4675 | 0.0000 | 0.0000 | 0.0000 | .0174 | .0070 |
| 1879 | .0032 | 0.0000 | .9796 | 4.4633 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0074 |

TEST 995 RUN 114

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1862 | .0109 | .0155 | .0729 | -.0291 | .0155 | .0547 | -.0291 | .0155 | .0654 | -.0291 | 1.0000 |
| 1863 | .0160 | .2725 | -1.6365 | -.2389 | .2720 | .1013 | -.0388 | .2725 | -1.6787 | -.2396 | 1.8000 |
| 1864 | -1.8472 | .0730 | -1.6098 | -.2657 | .1296 | .1098 | -.0676 | .0722 | -1.6693 | -.2684 | 1.8000 |
| 1865 | .0560 | .2850 | -1.6551 | -.2404 | .2832 | .0991 | -.0384 | .2849 | -1.6809 | -.2392 | 1.8000 |
| 1866 | 1.9632 | .4925 | -1.6614 | -.2176 | .4309 | .0991 | -.0147 | .4919 | -1.6798 | -.2155 | 1.8000 |
| 1867 | 3.9202 | .7187 | -1.6417 | -.1952 | .5962 | .1089 | .0069 | .7179 | -1.6669 | -.1939 | 1.8000 |
| 1868 | 5.9191 | .9398 | -1.6138 | -.1692 | .7562 | .1204 | .0316 | .9398 | -1.6501 | -.1692 | 1.8000 |
| 1869 | 7.9446 | 1.1551 | -1.5975 | -.1379 | .9074 | .1413 | .0643 | 1.1535 | -1.6216 | -.1365 | 1.8000 |
| 1870 | 10.0078 | 1.3596 | -1.5577 | -.1069 | 1.0479 | .1741 | .0955 | 1.3572 | -1.5788 | -.1053 | 1.8000 |
| 1871 | 12.0981 | 1.5504 | -1.4835 | -.0704 | 1.1807 | .2892 | .1287 | 1.5538 | -1.5313 | -.0721 | 1.8000 |
| 1872 | 14.1598 | 1.7654 | -1.4529 | -.0320 | 1.3282 | .2497 | .1696 | 1.7636 | -1.4763 | -.0312 | 1.8000 |
| 1873 | 16.1865 | 1.9459 | -1.3881 | .0104 | 1.4472 | .3081 | .2122 | 1.9434 | -1.4013 | .0114 | 1.8000 |
| 1874 | 18.1887 | 2.1439 | -1.2975 | .0504 | 1.5820 | .3817 | .2535 | 2.1377 | -1.3094 | .0527 | 1.8000 |
| 1875 | 20.1803 | 2.3125 | -1.1552 | .0695 | 1.6911 | .5029 | .2727 | 2.3052 | -1.1679 | .0719 | 1.8000 |
| 1876 | 21.8549 | 2.4733 | -1.0176 | .0728 | 1.8021 | .6222 | .2754 | 2.4648 | -1.0299 | .0746 | 1.8000 |
| 1877 | .0324 | .2739 | -1.6308 | -.2410 | .2729 | .1005 | -.0416 | .2739 | -1.6795 | -.2424 | 1.8000 |
| 1878 | .0068 | -.0167 | .0569 | -.0231 | -.0167 | .0325 | -.0231 | -.0167 | .0499 | -.0231 | 1.0000 |
| 1879 | .0032 | .0468 | .0665 | -.0393 | .0468 | .0393 | -.0393 | .0468 | .0590 | -.0393 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 116

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1900 | .167 | 1942 | .03 | -.00 | 100030 | .4613 | .0616 | -.1379 | -.0011 | .0004 | .0066 |
| 1901 | .166 | 1935 | -1.86 | -.00 | 100037 | .3332 | .0659 | -.1735 | .0010 | .0004 | .0004 |
| 1902 | .166 | 1939 | .03 | -.00 | 100034 | .4633 | .0628 | -.1371 | -.0010 | .0003 | .0054 |
| 1903 | .165 | 1906 | 1.95 | -.00 | 100067 | .5901 | .0558 | -.1032 | -.0015 | .0002 | .0045 |
| 1904 | .166 | 1932 | 3.90 | -.00 | 100037 | .7163 | .0447 | -.0646 | .0003 | .0001 | .0072 |
| 1905 | .166 | 1929 | 5.89 | -.00 | 100040 | .8552 | .0332 | -.0265 | -.0003 | .0001 | .0063 |
| 1906 | .166 | 1919 | 7.92 | .00 | 100050 | .9736 | .0248 | .0160 | -.0001 | .0014 | -.0118 |
| 1907 | .165 | 1899 | 10.00 | -.00 | 100070 | 1.0554 | .0217 | .0657 | -.0009 | .0002 | .0083 |
| 1908 | .165 | 1906 | 12.10 | -.00 | 100060 | 1.1446 | .0225 | .1126 | -.0005 | .0003 | .0048 |
| 1909 | .165 | 1906 | 14.17 | -.00 | 100060 | 1.2162 | .0318 | .1675 | .0012 | .0001 | .0044 |
| 1910 | .164 | 1892 | 16.14 | -.00 | 100074 | 1.2802 | .0483 | .1893 | -.0005 | .0000 | .0055 |
| 1911 | .164 | 1892 | 18.15 | -.00 | 100074 | 1.4234 | .0519 | .2261 | -.0013 | .0000 | .0060 |
| 1912 | .166 | 1925 | 20.15 | -.00 | 100040 | 1.5624 | .0468 | .2708 | .0004 | .0004 | .0080 |
| 1913 | .165 | 1899 | 21.82 | -.00 | 100067 | 1.6738 | .0423 | .3123 | .0017 | .0009 | .0033 |
| 1914 | .166 | 1925 | .02 | -.00 | 100044 | .4618 | .0732 | -.1377 | -.0008 | .0003 | .0053 |

TEST 995 RUN 116

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1900 | .0257 | 0.0000 | .9799 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0199 | .0076 |
| 1901 | -1.8592 | 0.0000 | .9806 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0078 |
| 1902 | .0281 | 0.0000 | .9800 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0076 |
| 1903 | 1.9469 | 0.0000 | .9799 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0203 | .0074 |
| 1904 | 3.9002 | 0.0000 | .9789 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0210 | .0074 |
| 1905 | 5.8949 | 0.0000 | .9792 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0071 |
| 1906 | 7.9174 | 0.0000 | .9785 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0069 |
| 1907 | 9.9996 | 0.0000 | .9783 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0070 |
| 1908 | 12.0999 | 0.0000 | .9768 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0229 | .0070 |
| 1909 | 14.1678 | 0.0000 | .9755 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0240 | .0072 |
| 1910 | 16.1438 | 0.0000 | .9744 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0251 | .0080 |
| 1911 | 18.1537 | 0.0000 | .9719 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0272 | .0085 |
| 1912 | 20.1527 | 0.0000 | .9739 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0245 | .0090 |
| 1913 | 21.8238 | 0.0000 | .9711 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0272 | .0088 |
| 1914 | .0231 | 0.0000 | .9799 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0201 | .0075 |

TEST 995 RUN 116

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1900 | .0257 | .4613 | .0618 | -.1379 | .4613 | .0343 | -.1379 | .4613 | .0542 | -.1379 | 1.0000 |
| 1901 | -1.8592 | .3351 | .0550 | -.1735 | .3351 | .0280 | -.1735 | .3351 | .0472 | -.1735 | 1.0000 |
| 1902 | .0281 | .4632 | .0631 | -.1371 | .4632 | .0356 | -.1371 | .4632 | .0555 | -.1371 | 1.0000 |
| 1903 | 1.9469 | .5878 | .0758 | -.1032 | .5878 | .0482 | -.1032 | .5878 | .0685 | -.1032 | 1.0000 |
| 1904 | 3.9002 | .7116 | .0933 | -.0646 | .7116 | .0649 | -.0646 | .7116 | .0859 | -.0646 | 1.0000 |
| 1905 | 5.8949 | .8473 | .1209 | -.0265 | .8473 | .0931 | -.0265 | .8473 | .1137 | -.0265 | 1.0000 |
| 1906 | 7.9174 | .9609 | .1587 | .0160 | .9609 | .1304 | .0160 | .9609 | .1517 | .0160 | 1.0000 |
| 1907 | 9.9996 | 1.0356 | .2047 | .0657 | 1.0356 | .1760 | .0657 | 1.0356 | .1976 | .0657 | 1.0000 |
| 1908 | 12.0999 | 1.1144 | .2619 | .1126 | 1.1144 | .2320 | .1126 | 1.1144 | .2549 | .1126 | 1.0000 |
| 1909 | 14.1678 | 1.1714 | .3285 | .1675 | 1.1714 | .2973 | .1675 | 1.1714 | .3213 | .1675 | 1.0000 |
| 1910 | 16.1438 | 1.2163 | .4023 | .1893 | 1.2163 | .3693 | .1893 | 1.2163 | .3944 | .1893 | 1.0000 |
| 1911 | 18.1537 | 1.3364 | .4928 | .2261 | 1.3364 | .4572 | .2261 | 1.3364 | .4843 | .2261 | 1.0000 |
| 1912 | 20.1527 | 1.4506 | .5822 | .2708 | 1.4506 | .5487 | .2708 | 1.4506 | .5732 | .2708 | 1.0000 |
| 1913 | 21.8238 | 1.5381 | .6615 | .3123 | 1.5381 | .6254 | .3123 | 1.5381 | .6526 | .3123 | 1.0000 |
| 1914 | .0231 | .4617 | .0734 | -.1377 | .4617 | .0459 | -.1377 | .4617 | .0659 | -.1377 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 117

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1915 | .166 | 1925 | .01 | .00 | 100044 | .4640 | .0686 | -.1382 | -.0006 | .0011 | -.0061 |
| 1916 | .166 | 1929 | .01 | -.00 | 100037 | .4274 | .0624 | -.1291 | -.0013 | .0004 | .0022 |
| 1917 | .166 | 1932 | .05 | .00 | 100023 | 1.2200 | -1.4531 | -.5251 | -.0015 | -.0005 | -.0014 |
| 1918 | .167 | 1942 | -1.83 | .00 | 100007 | 1.0299 | -1.3343 | -.5359 | -.0017 | -.0021 | -.0068 |
| 1919 | .168 | 1972 | .09 | .00 | 99976 | 1.1703 | -1.3359 | -.4967 | -.0031 | -.0022 | .0003 |
| 1920 | .167 | 1962 | 2.00 | .00 | 99986 | 1.3178 | -1.3781 | -.4728 | -.0033 | -.0023 | .0005 |
| 1921 | .165 | 1912 | 3.96 | .00 | 100043 | 1.5089 | -1.4687 | -.4554 | -.0029 | -.0033 | -.0032 |
| 1922 | .166 | 1939 | 5.95 | .00 | 100017 | 1.6549 | -1.3998 | -.4193 | -.0005 | -.0047 | -.0132 |
| 1923 | .164 | 1876 | 7.98 | .00 | 100073 | 1.8711 | -1.4440 | -.4108 | .0017 | -.0037 | -.0001 |
| 1924 | .167 | 1952 | 10.04 | .00 | 99996 | 2.0507 | -1.4165 | -.3812 | .0060 | -.0035 | .0016 |
| 1925 | .166 | 1925 | 12.10 | .00 | 100023 | 2.2770 | -1.4748 | -.3712 | .0073 | -.0033 | -.0023 |
| 1926 | .166 | 1932 | 14.26 | .00 | 100017 | 2.5062 | -1.5053 | -.3505 | .0022 | -.0024 | -.0012 |
| 1927 | .164 | 1892 | 16.23 | -.00 | 100057 | 2.7310 | -1.4662 | -.3261 | .0046 | -.0016 | .0074 |
| 1928 | .166 | 1925 | 18.26 | .00 | 100023 | 2.9552 | -1.4910 | -.2951 | .0052 | -.0012 | .0005 |
| 1929 | .165 | 1912 | 20.25 | .00 | 100037 | 3.1763 | -1.5419 | -.2581 | .0046 | -.0009 | -.0033 |
| 1930 | .167 | 1945 | 21.95 | .00 | 100003 | 3.3338 | -1.5534 | -.2144 | -.0000 | -.0002 | .0013 |
| 1931 | .167 | 1958 | .09 | .00 | 99990 | 1.2104 | -1.4232 | -.5204 | -.0009 | -.0011 | -.0054 |
| 1932 | .168 | 1982 | .03 | -.00 | 99966 | .4246 | .0490 | -.1327 | -.0004 | -.0008 | .0084 |
| 1933 | .166 | 1919 | .02 | -.00 | 100030 | .4679 | .0558 | -.1406 | .0000 | .0003 | .0085 |

TEST 995 RUN 117

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1915 | .0140 | 0.0000 | .9819 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0181 | .0075 |
| 1916 | .0052 | .2354 | .9849 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0150 | .0072 |
| 1917 | .0466 | 30.0436 | 2.9800 | 22.5000 | 1.9005 | 1.3791 | .5428 | -1.9722 | .0210 |
| 1918 | -1.8304 | 28.5582 | 2.8348 | 22.5000 | 1.7671 | 1.2829 | .5041 | -1.8170 | .0189 |
| 1919 | .0870 | 28.8446 | 2.8629 | 22.5000 | 1.7657 | 1.2817 | .5038 | -1.8175 | .0195 |
| 1920 | 1.9961 | 29.1879 | 2.8954 | 22.5000 | 1.8049 | 1.3102 | .5151 | -1.8575 | .0203 |
| 1921 | 3.9603 | 29.6700 | 2.9478 | 22.5000 | 1.8975 | 1.3774 | .5414 | -1.9560 | .0212 |
| 1922 | 5.9544 | 29.0067 | 2.8788 | 22.5000 | 1.8140 | 1.3169 | .5174 | -1.8549 | .0206 |
| 1923 | 7.9786 | 28.8945 | 2.8683 | 22.5000 | 1.8641 | 1.3531 | .5319 | -1.8990 | .0206 |
| 1924 | 10.0423 | 29.1616 | 2.8940 | 22.5000 | 1.8143 | 1.3167 | .5180 | -1.8383 | .0206 |
| 1925 | 12.1035 | 29.3100 | 2.9111 | 22.5000 | 1.8552 | 1.3469 | .5292 | -1.8676 | .0208 |
| 1926 | 14.2615 | 29.6279 | 2.9473 | 22.5000 | 1.8786 | 1.3638 | .5359 | -1.8797 | .0206 |
| 1927 | 16.2314 | 28.4428 | 2.8211 | 22.5000 | 1.8096 | 1.3138 | .5162 | -1.7787 | .0194 |
| 1928 | 18.2602 | 28.7777 | 2.8586 | 22.5000 | 1.8092 | 1.3135 | .5160 | -1.7641 | .0188 |
| 1929 | 20.2524 | 29.0504 | 2.8835 | 22.5000 | 1.8462 | 1.3404 | .5265 | -1.7786 | .0187 |
| 1930 | 21.9481 | 29.3213 | 2.9132 | 22.5000 | 1.8394 | 1.3355 | .5246 | -1.7552 | .0186 |
| 1931 | .0885 | 29.8159 | 2.9626 | 22.5000 | 1.8705 | 1.3580 | .5335 | -1.9279 | .0210 |
| 1932 | .0286 | .2869 | .9692 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0299 | .0075 |
| 1933 | .0234 | 1.4547 | .9687 | 22.5000 | 0.0000 | 0.0000 | 0.0000 | .0314 | .0078 |

TEST 995 RUN 117

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1915 | .0140 | .4640 | .0687 | -.1382 | .4640 | .0431 | -.1382 | .4640 | .0612 | -.1382 | 1.0000 |
| 1916 | .0052 | .4274 | .0624 | -.1291 | .4274 | .0402 | -.1291 | .4274 | .0553 | -.1291 | 1.0000 |
| 1917 | .0466 | 1.2212 | -1.4521 | -.5251 | 1.2196 | .4274 | -.3107 | 1.2211 | -1.3526 | -.5115 | 1.8000 |
| 1918 | -1.8304 | .9868 | -1.3665 | -.5359 | 1.0432 | .3808 | -.3365 | .9863 | -1.3983 | -.5373 | 1.8000 |
| 1919 | .0870 | 1.1723 | -1.3342 | -.4967 | 1.1696 | .4120 | -.2975 | 1.1723 | -1.3680 | -.4983 | 1.8000 |
| 1920 | 1.9961 | 1.3650 | -1.3314 | -.4728 | 1.3822 | .4822 | -.2692 | 1.3642 | -1.3267 | -.4700 | 1.8000 |
| 1921 | 3.9603 | 1.6062 | -1.3530 | -.4554 | 1.4751 | .5137 | -.2414 | 1.5981 | -1.2571 | -.4422 | 1.8000 |
| 1922 | 5.9544 | 1.7912 | -1.2206 | -.4193 | 1.6030 | .5631 | -.2147 | 1.7877 | -1.2073 | -.4155 | 1.8000 |
| 1923 | 7.9786 | 2.0534 | -1.1703 | -.4108 | 1.7946 | .6551 | -.2005 | 2.0417 | -1.1077 | -.4013 | 1.8000 |
| 1924 | 10.0423 | 2.2663 | -1.0372 | -.3812 | 1.9499 | .7287 | -.1765 | 2.2603 | -1.0240 | -.3773 | 1.8000 |
| 1925 | 12.1035 | 2.5357 | -.9646 | -.3712 | 2.1467 | .8286 | -.1619 | 2.5199 | -.9119 | -.3627 | 1.8000 |
| 1926 | 14.2615 | 2.7998 | -.8415 | -.3505 | 2.3370 | .9586 | -.1386 | 2.7755 | -.7665 | -.3394 | 1.8000 |
| 1927 | 16.2314 | 3.0320 | -.6444 | -.3261 | 2.5262 | 1.0737 | -.1219 | 3.0237 | -.6353 | -.3227 | 1.8000 |
| 1928 | 18.2602 | 3.2735 | -.4900 | -.2951 | 2.7066 | 1.2093 | -.0910 | 3.2644 | -.4811 | -.2919 | 1.8000 |
| 1929 | 20.2524 | 3.5137 | -.3470 | -.2581 | 2.8746 | 1.3662 | -.0498 | 3.4907 | -.3037 | -.2506 | 1.8000 |
| 1930 | 21.9481 | 3.6728 | -.1947 | -.2144 | 2.9853 | 1.4927 | -.0069 | 3.6506 | -.1583 | -.2077 | 1.8000 |
| 1931 | .0885 | 1.2126 | -1.4214 | -.5204 | 1.2097 | .4281 | -.3093 | 1.2124 | -1.3519 | -.5101 | 1.8000 |
| 1932 | .0286 | .4246 | .0493 | -.1327 | .4246 | .0119 | -.1327 | .4246 | .0417 | -.1327 | 1.0000 |
| 1933 | .0234 | .4679 | .0560 | -.1406 | .4679 | .0167 | -.1406 | .4679 | .0481 | -.1406 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 119

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1951 | .166 | 1915 | .02 | -.00 | 99563 | .4311 | .0625 | -.1309 | .0004 | .0010 | .0064 |
| 1952 | .166 | 1919 | -1.84 | .00 | 99559 | .3090 | .0677 | -.1639 | -.0014 | -.0003 | -.0147 |
| 1953 | .167 | 1935 | .06 | -.00 | 99546 | .4350 | .0645 | -.1299 | -.0000 | .0005 | -.0018 |
| 1954 | .166 | 1922 | 1.96 | -.00 | 99556 | .5566 | .0556 | -.0941 | -.0010 | .0004 | -.0004 |
| 1955 | .165 | 1909 | 3.88 | -.00 | 99576 | .6787 | .0455 | -.0565 | -.0004 | .0002 | -.0008 |
| 1956 | .165 | 1909 | 5.93 | -.00 | 99576 | .8161 | .0321 | -.0172 | -.0006 | .0003 | -.0032 |
| 1957 | .165 | 1909 | 7.92 | -.00 | 99569 | .9424 | .0221 | .0236 | .0001 | .0011 | -.0063 |
| 1958 | .166 | 1915 | 9.99 | -.00 | 99563 | 1.0498 | .0182 | .0686 | .0018 | .0008 | -.0072 |
| 1959 | .165 | 1906 | 12.10 | -.00 | 99573 | 1.1322 | .0281 | .1191 | -.0006 | .0005 | -.0083 |
| 1960 | .165 | 1909 | 14.16 | -.00 | 99563 | 1.1960 | .0281 | .1702 | .0011 | .0019 | .0097 |
| 1961 | .165 | 1906 | 16.17 | -.00 | 99566 | 1.2845 | .0499 | .1933 | -.0007 | .0003 | -.0070 |
| 1962 | .166 | 1912 | 18.19 | -.00 | 99563 | 1.4238 | .0532 | .2302 | -.0007 | .0004 | -.0075 |
| 1963 | .166 | 1912 | 20.17 | -.00 | 99563 | 1.5597 | .0497 | .2746 | .0004 | .0004 | -.0037 |
| 1964 | .166 | 1929 | 21.73 | -.00 | 99549 | 1.6574 | .0460 | .3157 | .0009 | .0012 | .0003 |
| 1965 | .166 | 1925 | .04 | -.00 | 99553 | .4386 | .0710 | -.1289 | .0002 | .0003 | -.0008 |

TEST 995 RUN 119

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1951 | .0236 | 0.0000 | .9785 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0214 | .0079 |
| 1952 | -1.8421 | 0.0000 | .9784 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0215 | .0081 |
| 1953 | .0588 | 0.0000 | .9797 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0200 | .0080 |
| 1954 | 1.9607 | 0.0000 | .9801 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0077 |
| 1955 | 3.8810 | 0.0000 | .9803 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0076 |
| 1956 | 5.9258 | 0.0000 | .9791 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0208 | .0074 |
| 1957 | 7.9213 | 0.0000 | .9813 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0185 | .0073 |
| 1958 | 9.9892 | 0.0000 | .9789 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0207 | .0074 |
| 1959 | 12.1019 | 0.0000 | .9782 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0214 | .0074 |
| 1960 | 14.1635 | 0.0000 | .9761 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0074 |
| 1961 | 16.1655 | 0.0000 | .9708 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0281 | .0087 |
| 1962 | 18.1872 | .0573 | .9695 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0289 | .0093 |
| 1963 | 20.1707 | 0.0000 | .9679 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0301 | .0096 |
| 1964 | 21.7332 | 0.0000 | .9659 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0314 | .0099 |
| 1965 | .0381 | 1.1183 | .9785 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0080 |

TEST 995 RUN 119

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1951 | .0236 | .4311 | .0627 | -.1309 | .4311 | .0333 | -.1309 | .4311 | .0547 | -.1309 | 1.0000 |
| 1952 | -1.8421 | .3110 | .0577 | -.1639 | .3110 | .0281 | -.1639 | .3110 | .0496 | -.1639 | 1.0000 |
| 1953 | .0588 | .4350 | .0649 | -.1299 | .4350 | .0369 | -.1299 | .4350 | .0570 | -.1299 | 1.0000 |
| 1954 | 1.9607 | .5544 | .0746 | -.0941 | .5544 | .0472 | -.0941 | .5544 | .0669 | -.0941 | 1.0000 |
| 1955 | 3.8810 | .6741 | .0914 | -.0565 | .6741 | .0641 | -.0565 | .6741 | .0838 | -.0565 | 1.0000 |
| 1956 | 5.9258 | .8084 | .1162 | -.0172 | .8084 | .0880 | -.0172 | .8084 | .1088 | -.0172 | 1.0000 |
| 1957 | 7.9213 | .9303 | .1517 | .0236 | .9303 | .1259 | .0236 | .9303 | .1444 | .0236 | 1.0000 |
| 1958 | 9.9892 | 1.0308 | .2088 | .0686 | 1.0308 | .1719 | .0686 | 1.0308 | .1926 | .0686 | 1.0000 |
| 1959 | 12.1019 | 1.1029 | .2570 | .1191 | 1.1029 | .2282 | .1191 | 1.1029 | .2496 | .1191 | 1.0000 |
| 1960 | 14.1635 | 1.1528 | .3199 | .1702 | 1.1528 | .2892 | .1702 | 1.1528 | .3125 | .1702 | 1.0000 |
| 1961 | 16.1655 | 1.2199 | .4055 | .1933 | 1.2199 | .3688 | .1933 | 1.2199 | .3969 | .1933 | 1.0000 |
| 1962 | 18.1872 | 1.3361 | .4950 | .2302 | 1.3361 | .4568 | .2302 | 1.3361 | .4857 | .2302 | 1.0000 |
| 1963 | 20.1707 | 1.4469 | .5844 | .2746 | 1.4469 | .5448 | .2746 | 1.4469 | .5749 | .2746 | 1.0000 |
| 1964 | 21.7332 | 1.5225 | .6564 | .3157 | 1.5225 | .6151 | .3157 | 1.5225 | .6465 | .3157 | 1.0000 |
| 1965 | .0381 | .4386 | .0713 | -.1289 | .4386 | .0420 | -.1289 | .4386 | .0633 | -.1289 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 120

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1967 | .166 | 1929 | .03 | -.00 | 99536 | .4297 | .0686 | -.1258 | -.0005 | .0005 | .0008 |
| 1968 | .166 | 1919 | .08 | -.00 | 99552 | 1.2529 | -1.5077 | -.5777 | -.0008 | .0022 | -.0055 |
| 1969 | .166 | 1919 | -1.80 | -.00 | 99552 | 1.1114 | -1.5118 | -.6100 | -.0016 | .0020 | -.0124 |
| 1970 | .166 | 1922 | .10 | -.00 | 99549 | 1.2578 | -1.5117 | -.5758 | -.0016 | .0020 | -.0052 |
| 1971 | .167 | 1932 | 2.00 | .00 | 99539 | 1.3892 | -1.5887 | -.5435 | -.0020 | .0016 | -.0100 |
| 1972 | .167 | 1939 | 3.96 | -.00 | 99532 | 1.5253 | -1.5147 | -.5106 | -.0015 | .0012 | -.0094 |
| 1973 | .166 | 1919 | 5.96 | .00 | 99556 | 1.6811 | -1.5318 | -.4736 | -.0011 | -.0002 | -.0265 |
| 1974 | .166 | 1925 | 7.98 | .00 | 99546 | 1.8319 | -1.5337 | -.4407 | .0000 | .0013 | -.0141 |
| 1975 | .165 | 1906 | 10.05 | -.00 | 99566 | 2.0302 | -1.5496 | -.4304 | -.0003 | .0015 | -.0129 |
| 1976 | .166 | 1925 | 12.18 | -.00 | 99546 | 2.2224 | -1.5407 | -.3924 | -.0016 | .0015 | -.0097 |
| 1977 | .166 | 1912 | 14.24 | -.00 | 99556 | 2.4108 | -1.5601 | -.3665 | .0006 | .0003 | .0056 |
| 1978 | .166 | 1915 | 16.27 | -.00 | 99552 | 2.6219 | -1.5719 | -.3348 | .0002 | .0020 | -.0147 |
| 1979 | .167 | 1948 | 18.29 | -.00 | 99519 | 2.8136 | -1.5668 | -.2893 | .0002 | .0031 | -.0145 |
| 1980 | .166 | 1922 | 20.30 | -.00 | 99549 | 3.0494 | -1.6193 | -.2637 | -.0016 | .0037 | -.0121 |
| 1981 | .166 | 1915 | 21.67 | -.00 | 99556 | 3.1907 | -1.6428 | -.2328 | -.0016 | .0041 | -.0132 |
| 1982 | .166 | 1922 | .08 | .00 | 99542 | 1.2704 | -1.5474 | -.5852 | -.0010 | .0018 | -.0111 |
| 1983 | .167 | 1942 | .03 | -.00 | 99522 | .4464 | .0560 | -.1315 | -.0001 | .0001 | .0016 |

TEST 995 RUN 120

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1967 | .0262 | .0417 | .9799 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0199 | .0078 |
| 1968 | .0757 | 29.3359 | 2.9216 | 25.4000 | 1.8514 | 1.6088 | .2634 | -1.9113 | .0211 |
| 1969 | -1.7990 | 29.3909 | 2.9253 | 25.4000 | 1.8574 | 1.6141 | .2642 | -1.9140 | .0208 |
| 1970 | .0971 | 29.3412 | 2.9251 | 25.4000 | 1.8526 | 1.6098 | .2636 | -1.9114 | .0210 |
| 1971 | 2.0045 | 29.2648 | 2.9175 | 25.4000 | 1.8370 | 1.5963 | .2613 | -1.8927 | .0212 |
| 1972 | 3.9571 | 29.2426 | 2.9173 | 25.4000 | 1.8381 | 1.5903 | .2604 | -1.8826 | .0213 |
| 1973 | 5.9572 | 29.1751 | 2.9150 | 25.4000 | 1.8452 | 1.6034 | .2626 | -1.8945 | .0216 |
| 1974 | 7.9817 | 29.1467 | 2.9113 | 25.4000 | 1.8377 | 1.5969 | .2614 | -1.8760 | .0217 |
| 1975 | 10.0525 | 29.0280 | 2.9039 | 25.4000 | 1.8488 | 1.6059 | .2629 | -1.8778 | .0218 |
| 1976 | 12.1809 | 29.0586 | 2.9017 | 25.4000 | 1.8317 | 1.5917 | .2605 | -1.8424 | .0220 |
| 1977 | 14.2429 | 29.0164 | 2.8937 | 25.4000 | 1.8392 | 1.5981 | .2618 | -1.8320 | .0221 |
| 1978 | 16.2700 | 28.9782 | 2.8967 | 25.4000 | 1.8359 | 1.5953 | .2612 | -1.8141 | .0215 |
| 1979 | 18.2878 | 29.0402 | 2.9132 | 25.4000 | 1.8135 | 1.5759 | .2580 | -1.7786 | .0209 |
| 1980 | 20.3008 | 29.1416 | 2.9112 | 25.4000 | 1.8449 | 1.6032 | .2625 | -1.7798 | .0218 |
| 1981 | 21.6716 | 29.1702 | 2.9216 | 25.4000 | 1.8567 | 1.6135 | .2641 | -1.7793 | .0230 |
| 1982 | .0814 | 29.5859 | 2.9584 | 25.4000 | 1.8855 | 1.6383 | .2684 | -1.9443 | .0214 |
| 1983 | .0319 | 0.0000 | .9628 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0365 | .0079 |

TEST 995 RUN 120

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1967 | .0262 | .4297 | .0688 | -.1258 | .4297 | .0418 | -.1258 | .4297 | .0609 | -.1258 | 1.0000 |
| 1968 | .0757 | 1.2549 | -1.5060 | -.5777 | 1.2524 | .3243 | -.3688 | 1.2548 | -1.4557 | -.5696 | 1.8000 |
| 1969 | -1.7990 | 1.0634 | -1.5460 | -.6100 | 1.1217 | .2897 | -.4004 | 1.0658 | -1.4894 | -.6012 | 1.8000 |
| 1970 | .0971 | 1.2603 | -1.5096 | -.5758 | 1.2572 | .3221 | -.3668 | 1.2602 | -1.4579 | -.5676 | 1.8000 |
| 1971 | 2.0045 | 1.4411 | -1.4592 | -.5435 | 1.3769 | .3555 | -.3362 | 1.4391 | -1.4234 | -.5370 | 1.8000 |
| 1972 | 3.9571 | 1.6262 | -1.4059 | -.5106 | 1.4999 | .3986 | -.3042 | 1.6227 | -1.3771 | -.5050 | 1.8000 |
| 1973 | 5.9572 | 1.8310 | -1.3491 | -.4736 | 1.6395 | .4646 | -.2654 | 1.8242 | -1.3058 | -.4662 | 1.8000 |
| 1974 | 7.9817 | 2.0271 | -1.2645 | -.4407 | 1.7719 | .5337 | -.2334 | 2.0191 | -1.2290 | -.4342 | 1.8000 |
| 1975 | 10.0525 | 2.2695 | -1.1714 | -.4304 | 1.9470 | .6264 | -.2219 | 2.2577 | -1.1262 | -.4228 | 1.8000 |
| 1976 | 12.1809 | 2.4975 | -1.0371 | -.3924 | 2.1110 | .7314 | -.1858 | 2.4866 | -1.0086 | -.3866 | 1.8000 |
| 1977 | 14.2429 | 2.7206 | -.9190 | -.3665 | 2.2681 | .8415 | -.1590 | 2.7060 | -.8838 | -.3598 | 1.8000 |
| 1978 | 16.2700 | 2.9573 | -.7744 | -.3348 | 2.4430 | .9664 | -.1277 | 2.9417 | -.7423 | -.3285 | 1.8000 |
| 1979 | 18.2878 | 3.1632 | -.6048 | -.2893 | 2.5941 | 1.0961 | -.0847 | 3.1527 | -.5940 | -.2855 | 1.8000 |
| 1980 | 20.3008 | 3.4218 | -.4608 | -.2637 | 2.7817 | 1.2477 | -.0556 | 3.3993 | -.4217 | -.2564 | 1.8000 |
| 1981 | 21.6716 | 3.5718 | -.3484 | -.2328 | 2.8661 | 1.3541 | -.0233 | 3.5435 | -.3001 | -.2242 | 1.8000 |
| 1982 | .0814 | 1.2726 | -1.5456 | -.5852 | 1.2699 | .3186 | -.3725 | 1.2725 | -1.4614 | -.5733 | 1.8000 |
| 1983 | .0319 | .4464 | .0562 | -.1315 | .4464 | .0118 | -.1315 | .4464 | .0483 | -.1315 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 121

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1996 | .166 | 1912 | .03 | -.00 | 99491 | .4305 | .0641 | -.1037 | -.0011 | -.0003 | .0071 |
| 1997 | .165 | 1906 | -1.84 | -.00 | 99491 | .2918 | .0699 | -.1788 | -.0020 | -.0007 | .0060 |
| 1998 | .166 | 1909 | .05 | -.00 | 99488 | .4312 | .0636 | -.1040 | -.0017 | -.0003 | .0073 |
| 1999 | .166 | 1925 | 1.97 | -.00 | 99471 | .5724 | .0572 | -.0214 | -.0021 | -.0004 | .0073 |
| 2000 | .166 | 1915 | 3.92 | -.00 | 99481 | .7189 | .0473 | .0638 | -.0016 | -.0012 | .0140 |
| 2001 | .166 | 1915 | 5.94 | -.00 | 99481 | .8732 | .0361 | .1538 | -.0003 | -.0012 | .0077 |
| 2002 | .166 | 1912 | 7.96 | -.00 | 99485 | 1.0327 | .0242 | .2377 | -.0003 | -.0011 | .0081 |
| 2003 | .166 | 1912 | 10.04 | -.00 | 99485 | 1.1872 | .0141 | .3269 | -.0010 | -.0009 | .0092 |
| 2004 | .165 | 1899 | 12.16 | -.00 | 99498 | 1.3459 | .0055 | .4232 | -.0015 | -.0006 | .0115 |
| 2005 | .166 | 1922 | 14.24 | -.00 | 99475 | 1.5046 | -.0002 | .5160 | -.0007 | -.0005 | .0096 |
| 2006 | .166 | 1922 | 16.23 | -.00 | 99471 | 1.6490 | -.0061 | .5913 | -.0012 | -.0004 | .0103 |
| 2007 | .165 | 1892 | 18.26 | -.00 | 99498 | 1.7932 | -.0129 | .6753 | -.0004 | -.0007 | .0106 |
| 2008 | .166 | 1919 | 20.30 | -.00 | 99461 | 1.9298 | -.0211 | .7600 | -.0003 | -.0005 | .0125 |
| 2009 | .166 | 1929 | 21.76 | -.00 | 99448 | 2.0301 | -.0272 | .8275 | -.0002 | -.0005 | .0127 |
| 2010 | .166 | 1912 | .04 | -.00 | 99458 | .4481 | .0662 | -.1056 | -.0010 | -.0005 | .0104 |

TEST 995 RUN 121

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 1996 | .0300 | 0.0000 | .9792 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0207 | .0079 |
| 1997 | -1.8355 | 0.0000 | .9791 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0209 | .0081 |
| 1998 | .0508 | 0.0000 | .9797 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0203 | .0079 |
| 1999 | 1.9720 | 0.0000 | .9783 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0215 | .0079 |
| 2000 | 3.9243 | 0.0000 | .9802 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0077 |
| 2001 | 5.9407 | 0.0000 | .9796 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0202 | .0078 |
| 2002 | 7.9607 | 0.0000 | .9799 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0078 |
| 2003 | 10.0404 | 0.0000 | .9797 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0200 | .0079 |
| 2004 | 12.1559 | 0.0000 | .9784 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0212 | .0081 |
| 2005 | 14.2352 | 0.0000 | .9789 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0203 | .0083 |
| 2006 | 16.2299 | 0.0000 | .9786 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0204 | .0082 |
| 2007 | 18.2568 | 0.0000 | .9779 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0211 | .0084 |
| 2008 | 20.3025 | 0.0000 | .9762 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0221 | .0085 |
| 2009 | 21.7586 | 0.0000 | .9745 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0234 | .0085 |
| 2010 | .0449 | 0.0000 | .9780 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0220 | .0079 |

TEST 995 RUN 121

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1996 | .0300 | .4304 | .0643 | -.1037 | .4304 | .0357 | -.1037 | .4304 | .0564 | -.1037 | 1.0000 |
| 1997 | -1.8355 | .2939 | .0605 | -.1788 | .2939 | .0315 | -.1788 | .2939 | .0525 | -.1788 | 1.0000 |
| 1998 | .0508 | .4311 | .0639 | -.1040 | .4311 | .0357 | -.1040 | .4311 | .0560 | -.1040 | 1.0000 |
| 1999 | 1.9720 | .5701 | .0769 | -.0214 | .5701 | .0475 | -.0214 | .5781 | .0690 | -.0214 | 1.0000 |
| 2000 | 3.9243 | .7140 | .0964 | .0638 | .7140 | .0691 | .0638 | .7140 | .0868 | .0638 | 1.0000 |
| 2001 | 5.9407 | .8648 | .1263 | .1538 | .8648 | .0983 | .1538 | .8648 | .1185 | .1538 | 1.0000 |
| 2002 | 7.9607 | 1.0194 | .1670 | .2377 | 1.0194 | .1394 | .2377 | 1.0194 | .1592 | .2377 | 1.0000 |
| 2003 | 10.0404 | 1.1666 | .2209 | .3269 | 1.1666 | .1930 | .3269 | 1.1666 | .2130 | .3269 | 1.0000 |
| 2004 | 12.1559 | 1.3146 | .2888 | .4232 | 1.3146 | .2596 | .4232 | 1.3146 | .2808 | .4232 | 1.0000 |
| 2005 | 14.2352 | 1.4584 | .3698 | .5160 | 1.4584 | .3412 | .5160 | 1.4584 | .3615 | .5160 | 1.0000 |
| 2006 | 16.2299 | 1.5850 | .4551 | .5913 | 1.5850 | .4265 | .5913 | 1.5850 | .4468 | .5913 | 1.0000 |
| 2007 | 18.2568 | 1.7069 | .5495 | .6753 | 1.7069 | .5200 | .6753 | 1.7069 | .5411 | .6753 | 1.0000 |
| 2008 | 20.3025 | 1.8172 | .6498 | .7600 | 1.8172 | .6191 | .7600 | 1.8172 | .6413 | .7600 | 1.0000 |
| 2009 | 21.7586 | 1.8956 | .7272 | .8275 | 1.8956 | .6953 | .8275 | 1.8956 | .7187 | .8275 | 1.0000 |
| 2010 | .0449 | .4481 | .0666 | -.1056 | .4481 | .0367 | -.1056 | .4481 | .0587 | -.1056 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 122

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011 | .166 | 1912 | .04 | -.00 | 99451 | .4179 | .0636 | -.0971 | -.0019 | -.0003 | .0063 |
| 2012 | .166 | 1925 | .08 | -.00 | 99431 | 1.2548 | -1.5512 | -.5439 | -.0022 | .0006 | -.0010 |
| 2013 | .166 | 1912 | -1.79 | -.00 | 99430 | 1.1040 | -1.5415 | -.6145 | -.0027 | .0004 | -.0010 |
| 2014 | .165 | 1906 | .11 | -.00 | 99427 | 1.2642 | -1.5580 | -.5457 | -.0031 | .0005 | -.0007 |
| 2015 | .166 | 1912 | 2.03 | -.00 | 99417 | 1.4226 | -1.5422 | -.4639 | -.0029 | .0009 | -.0020 |
| 2016 | .165 | 1899 | 4.00 | -.00 | 99424 | 1.5916 | -1.5554 | -.3825 | -.0026 | .0013 | -.0010 |
| 2017 | .165 | 1889 | 6.00 | -.00 | 99440 | 1.7627 | -1.5741 | -.2958 | -.0021 | .0006 | -.0000 |
| 2018 | .164 | 1872 | 8.02 | -.00 | 99457 | 1.9499 | -1.5983 | -.2181 | -.0021 | .0008 | .0015 |
| 2019 | .166 | 1915 | 10.10 | -.00 | 99414 | 2.1183 | -1.5757 | -.1194 | -.0030 | .0010 | .0028 |
| 2020 | .167 | 1935 | 12.22 | -.00 | 99397 | 2.3125 | -1.5834 | -.0301 | -.0006 | .0014 | -.0040 |
| 2021 | .166 | 1922 | 14.32 | -.00 | 99407 | 2.5092 | -1.6012 | .0611 | -.0003 | .0013 | -.0011 |
| 2022 | .166 | 1925 | 16.32 | -.00 | 99404 | 2.7139 | -1.5987 | .1329 | -.0009 | .0014 | .0016 |
| 2023 | .166 | 1912 | 18.34 | -.00 | 99417 | 2.9479 | -1.6205 | .1983 | -.0004 | .0023 | .0011 |
| 2024 | .167 | 1932 | 20.34 | -.00 | 99400 | 3.1528 | -1.6191 | .2893 | -.0009 | .0018 | .0020 |
| 2025 | .165 | 1902 | 21.96 | -.00 | 99427 | 3.3347 | -1.6456 | .3591 | -.0008 | .0019 | .0011 |
| 2026 | .166 | 1909 | .09 | -.00 | 99424 | 1.2623 | -1.5381 | -.5411 | -.0020 | .0023 | .0006 |
| 2027 | .166 | 1925 | .04 | -.00 | 99407 | .4394 | .0468 | -.1039 | -.0014 | -.0005 | .0083 |

TEST 995 RUN 122

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2011 | .0411 | 0.0000 | .9786 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0079 |
| 2012 | .0762 | 29.5534 | 2.9643 | 25.4000 | 1.8848 | 1.6381 | .2678 | -1.9446 | .0211 |
| 2013 | -1.7929 | 29.3380 | 2.9495 | 25.4000 | 1.8797 | 1.6336 | .2672 | -1.9424 | .0210 |
| 2014 | .1133 | 29.4196 | 2.9587 | 25.4000 | 1.8936 | 1.6456 | .2693 | -1.9592 | .0213 |
| 2015 | 2.0338 | 29.2498 | 2.9308 | 25.4000 | 1.8679 | 1.6230 | .2658 | -1.9232 | .0216 |
| 2016 | 3.9975 | 29.1632 | 2.9154 | 25.4000 | 1.8706 | 1.6251 | .2665 | -1.9178 | .0221 |
| 2017 | 5.9957 | 29.1408 | 2.9167 | 25.4000 | 1.8780 | 1.6314 | .2676 | -1.9236 | .0225 |
| 2018 | 8.0244 | 29.1313 | 2.9178 | 25.4000 | 1.8951 | 1.6464 | .2699 | -1.9336 | .0231 |
| 2019 | 10.0956 | 29.1915 | 2.9217 | 25.4000 | 1.8563 | 1.6126 | .2646 | -1.8824 | .0237 |
| 2020 | 12.2174 | 29.3248 | 2.9410 | 25.4000 | 1.8505 | 1.6076 | .2638 | -1.8679 | .0243 |
| 2021 | 14.3172 | 29.3984 | 2.9454 | 25.4000 | 1.8689 | 1.6236 | .2664 | -1.8689 | .0251 |
| 2022 | 16.3186 | 29.2776 | 2.9302 | 25.4000 | 1.8538 | 1.6104 | .2642 | -1.8334 | .0255 |
| 2023 | 18.3381 | 29.2596 | 2.9299 | 25.4000 | 1.8642 | 1.6193 | .2659 | -1.8259 | .0264 |
| 2024 | 20.3372 | 29.2069 | 2.9201 | 25.4000 | 1.8395 | 1.5979 | .2623 | -1.7757 | .0269 |
| 2025 | 21.9562 | 29.1856 | 2.9207 | 25.4000 | 1.8675 | 1.6222 | .2662 | -1.7849 | .0277 |
| 2026 | .0855 | 29.2511 | 2.9299 | 25.4000 | 1.8682 | 1.6227 | .2664 | -1.9270 | .0212 |
| 2027 | .0401 | 0.0000 | .9652 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0345 | .0080 |

TEST 995 RUN 122

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011 | .0411 | .4178 | .0639 | -.0971 | .4178 | .0347 | -.0971 | .4178 | .0560 | -.0971 | 1.8000 |
| 2012 | .0762 | 1.2569 | -1.5495 | -.5439 | 1.2544 | .3142 | -.3313 | 1.2567 | -1.4658 | -.5321 | 1.8000 |
| 2013 | -1.7929 | 1.0552 | -1.5752 | -.6145 | 1.1141 | .2825 | -.4024 | 1.0584 | -1.4966 | -.6032 | 1.8000 |
| 2014 | .1133 | 1.2673 | -1.5555 | -.5457 | 1.2636 | .3169 | -.3321 | 1.2671 | -1.4631 | -.5329 | 1.8000 |
| 2015 | 2.0338 | 1.4765 | -1.4907 | -.4639 | 1.4102 | .3544 | -.2532 | 1.4734 | -1.4244 | -.4540 | 1.8000 |
| 2016 | 3.9975 | 1.6962 | -1.4407 | -.3825 | 1.5658 | .4033 | -.1715 | 1.6898 | -1.3724 | -.3723 | 1.8000 |
| 2017 | 5.9957 | 1.9175 | -1.3814 | -.2958 | 1.7214 | .4639 | -.0839 | 1.9073 | -1.3064 | -.2847 | 1.8000 |
| 2018 | 8.0244 | 2.1539 | -1.3105 | -.2181 | 1.8894 | .5429 | -.0043 | 2.1379 | -1.2197 | -.2051 | 1.8000 |
| 2019 | 10.0956 | 2.3617 | -1.1800 | -.1194 | 2.0363 | .6239 | .0901 | 2.3483 | -1.1286 | -.1107 | 1.8000 |
| 2020 | 12.2174 | 2.5952 | -1.0581 | -.0301 | 2.2036 | .7262 | .1787 | 2.5803 | -1.0135 | -.0221 | 1.8000 |
| 2021 | 14.3172 | 2.8272 | -.9310 | .0611 | 2.3651 | .8548 | .2720 | 2.8053 | -.8699 | .0712 | 1.8000 |
| 2022 | 16.3186 | 3.0538 | -.7718 | .1329 | 2.5329 | .9818 | .3421 | 3.0330 | -.7265 | .1412 | 1.8000 |
| 2023 | 18.3381 | 3.3081 | -.6108 | .1983 | 2.7215 | 1.1324 | .4086 | 3.2816 | -.5572 | .2078 | 1.8000 |
| 2024 | 20.3372 | 3.5189 | -.4224 | .2893 | 2.8796 | 1.2755 | .4968 | 3.4983 | -.3935 | .2960 | 1.8000 |
| 2025 | 21.9562 | 3.7082 | -.2794 | .3591 | 3.0099 | 1.4249 | .5698 | 3.6755 | -.2260 | .3690 | 1.8000 |
| 2026 | .0855 | 1.2646 | -1.5362 | -.5411 | 1.2618 | .3107 | -.3303 | 1.2644 | -1.4693 | -.5311 | 1.8000 |
| 2027 | .0401 | .4393 | .0471 | -.1039 | .4393 | .0046 | -.1039 | .4393 | .0391 | -.1039 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 123

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2030 | .167 | 1932 | .01 | -.00 | 99387 | .3814 | .1123 | -.3274 | -.0018 | -.0002 | -.0003 |
| 2031 | .166 | 1919 | -1.88 | -.00 | 99390 | .1693 | .1276 | -.3985 | -.0016 | -.0001 | -.0005 |
| 2032 | .167 | 1929 | .02 | -.00 | 99380 | .3057 | .1230 | -.3245 | -.0019 | .0000 | .0021 |
| 2033 | .166 | 1922 | 1.95 | -.00 | 99380 | .4370 | .0914 | -.2573 | -.0023 | -.0002 | .0032 |
| 2034 | .166 | 1912 | 3.91 | -.00 | 99383 | .5757 | .0759 | -.1780 | -.0015 | -.0005 | .0028 |
| 2035 | .166 | 1919 | 5.92 | -.00 | 99380 | .7334 | .0554 | -.0940 | -.0021 | -.0004 | .0008 |
| 2036 | .167 | 1935 | 7.94 | -.00 | 99360 | .8799 | .0387 | -.0121 | -.0026 | -.0006 | .0036 |
| 2037 | .165 | 1889 | 10.01 | -.00 | 99403 | 1.0188 | .0262 | .0691 | -.0021 | -.0003 | .0006 |
| 2038 | .166 | 1909 | 12.11 | -.00 | 99376 | 1.1519 | .0128 | .1510 | -.0024 | .0000 | .0026 |
| 2039 | .165 | 1899 | 14.21 | -.00 | 99390 | 1.2690 | .0021 | .2427 | -.0020 | .0001 | .0008 |
| 2040 | .166 | 1909 | 16.20 | -.00 | 99380 | 1.3684 | -.0080 | .3340 | -.0013 | .0002 | .0037 |
| 2041 | .165 | 1892 | 18.19 | -.00 | 99396 | 1.4465 | -.0135 | .4140 | -.0024 | -.0003 | .0010 |
| 2042 | .167 | 1929 | 20.20 | -.00 | 99353 | 1.5790 | -.0274 | .4989 | -.0031 | .0004 | .0012 |
| 2043 | .166 | 1912 | 21.64 | -.00 | 99376 | 1.6756 | -.0420 | .5616 | -.0020 | .0003 | -.0014 |
| 2044 | .167 | 1935 | .02 | -.00 | 99353 | .3056 | .1146 | -.3282 | -.0042 | -.0001 | -.0006 |

TEST 995 RUN 123

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2030 | .0056 | 0.0000 | .9777 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0220 | .0073 |
| 2031 | -1.8759 | 0.0000 | .9779 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0219 | .0078 |
| 2032 | .0199 | 0.0000 | .9782 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0215 | .0073 |
| 2033 | 1.9460 | 0.0000 | .9788 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0210 | .0070 |
| 2034 | 3.9116 | 0.0000 | .9781 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0070 |
| 2035 | 5.9155 | 0.0000 | .9782 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0215 | .0070 |
| 2036 | 7.9380 | 0.0000 | .9773 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0221 | .0071 |
| 2037 | 10.0056 | 0.0000 | .9777 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0222 | .0074 |
| 2038 | 12.1135 | 0.0000 | .9761 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0233 | .0076 |
| 2039 | 14.2101 | 0.0000 | .9752 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0078 |
| 2040 | 16.1995 | 0.0000 | .9738 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0251 | .0079 |
| 2041 | 18.1931 | 0.0000 | .9707 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0281 | .0084 |
| 2042 | 20.1995 | 0.0000 | .9687 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0290 | .0087 |
| 2043 | 21.6404 | 0.0000 | .9693 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0285 | .0087 |
| 2044 | .0151 | 0.0000 | .9786 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0211 | .0073 |

TEST 995 RUN 123

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2030 | .0056 | .3014 | .1123 | -.3274 | .3014 | .0863 | -.3274 | .3014 | .1050 | -.3274 | 1.0000 |
| 2031 | -1.8759 | .1734 | .1220 | -.3985 | .1734 | .0922 | -.3985 | .1734 | .1142 | -.3985 | 1.0000 |
| 2032 | .0199 | .3057 | .1231 | -.3245 | .3057 | .0944 | -.3245 | .3057 | .1158 | -.3245 | 1.0000 |
| 2033 | 1.9460 | .4336 | .1062 | -.2573 | .4336 | .0782 | -.2573 | .4336 | .0991 | -.2573 | 1.0000 |
| 2034 | 3.9116 | .5692 | .1150 | -.1780 | .5692 | .0863 | -.1780 | .5692 | .1080 | -.1780 | 1.0000 |
| 2035 | 5.9155 | .7238 | .1307 | -.0940 | .7238 | .1022 | -.0940 | .7238 | .1237 | -.0940 | 1.0000 |
| 2036 | 7.9380 | .8661 | .1598 | -.0121 | .8661 | .1306 | -.0121 | .8661 | .1527 | -.0121 | 1.0000 |
| 2037 | 10.0056 | .9987 | .2028 | .0691 | .9987 | .1732 | .0691 | .9987 | .1954 | .0691 | 1.0000 |
| 2038 | 12.1135 | 1.1235 | .2543 | .1510 | 1.1235 | .2233 | .1510 | 1.1235 | .2466 | .1510 | 1.0000 |
| 2039 | 14.2101 | 1.2297 | .3135 | .2427 | 1.2297 | .2816 | .2427 | 1.2297 | .3057 | .2427 | 1.0000 |
| 2040 | 16.1995 | 1.3163 | .3741 | .3340 | 1.3163 | .3411 | .3340 | 1.3163 | .3662 | .3340 | 1.0000 |
| 2041 | 18.1931 | 1.3784 | .4388 | .4140 | 1.3784 | .4024 | .4140 | 1.3784 | .4304 | .4140 | 1.0000 |
| 2042 | 20.1995 | 1.4914 | .5195 | .4989 | 1.4914 | .4818 | .4989 | 1.4914 | .5108 | .4989 | 1.0000 |
| 2043 | 21.6404 | 1.5730 | .5789 | .5616 | 1.5730 | .5417 | .5616 | 1.5730 | .5701 | .5616 | 1.0000 |
| 2044 | .0151 | .3056 | .1147 | -.3282 | .3056 | .0863 | -.3282 | .3056 | .1074 | -.3282 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 124

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2045 | .167 | 1929 | .01 | -.00 | 99363 | .3021 | .1134 | -.3266 | -.0028 | -.0001 | -.0011 |
| 2046 | .165 | 1902 | .06 | .00 | 99380 | 1.1425 | -1.4648 | -.7696 | -.0013 | .0029 | -.0137 |
| 2047 | .166 | 1909 | -1.83 | .00 | 99373 | .9915 | -1.4495 | -.8361 | -.0023 | .0034 | -.0202 |
| 2048 | .166 | 1906 | .09 | .00 | 99376 | 1.1461 | -1.4745 | -.7715 | -.0025 | .0030 | -.0131 |
| 2049 | .166 | 1906 | 2.00 | -.00 | 99380 | 1.2884 | -1.4915 | -.7026 | -.0012 | .0012 | .0137 |
| 2050 | .166 | 1922 | 3.96 | -.00 | 99359 | 1.4430 | -1.4926 | -.6265 | -.0014 | .0025 | -.0105 |
| 2051 | .165 | 1896 | 5.95 | .00 | 99386 | 1.6298 | -1.5390 | -.5496 | .0004 | .0028 | -.0135 |
| 2052 | .165 | 1902 | 8.01 | -.00 | 99380 | 1.8144 | -1.5468 | -.4769 | -.0003 | .0029 | -.0106 |
| 2053 | .165 | 1896 | 10.04 | -.00 | 99390 | 2.0148 | -1.5720 | -.4190 | -.0018 | .0033 | -.0121 |
| 2054 | .166 | 1915 | 12.18 | -.00 | 99363 | 2.2293 | -1.5798 | -.3506 | -.0021 | .0032 | -.0091 |
| 2055 | .166 | 1909 | 14.28 | -.00 | 99366 | 2.4716 | -1.6112 | -.2766 | -.0006 | .0032 | -.0091 |
| 2056 | .165 | 1902 | 16.28 | -.00 | 99373 | 2.6829 | -1.6451 | -.2148 | .0003 | .0037 | -.0102 |
| 2057 | .166 | 1915 | 18.22 | -.00 | 99356 | 2.8994 | -1.6659 | -.1430 | .0013 | .0033 | -.0090 |
| 2058 | .167 | 1929 | 20.30 | .00 | 99339 | 3.1076 | -1.6922 | -.0619 | .0007 | .0037 | -.0146 |
| 2059 | .166 | 1919 | 21.77 | .00 | 99343 | 3.2907 | -1.7251 | -.0078 | -.0018 | -.0005 | -.0116 |
| 2060 | .166 | 1925 | .06 | .00 | 99322 | 1.1286 | -1.4655 | -.7680 | -.0034 | -.0029 | -.0005 |
| 2061 | .167 | 1932 | .01 | -.00 | 99305 | .3097 | .0968 | -.3280 | -.0023 | -.0003 | .0022 |

TEST 995 RUN 124

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2045 | .0126 | 0.0000 | .9792 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0074 |
| 2046 | .0566 | 28.9142 | 2.9011 | 25.4000 | 1.8517 | 1.6088 | .2637 | -1.9040 | .0191 |
| 2047 | -1.8253 | 28.9414 | 2.9095 | 25.4000 | 1.8494 | 1.6069 | .2633 | -1.9047 | .0191 |
| 2048 | .0870 | 28.9975 | 2.9163 | 25.4000 | 1.8584 | 1.6147 | .2646 | -1.9159 | .0191 |
| 2049 | 2.0028 | 28.9771 | 2.9164 | 25.4000 | 1.8569 | 1.6133 | .2645 | -1.9148 | .0190 |
| 2050 | 3.9608 | 28.9769 | 2.9116 | 25.4000 | 1.8401 | 1.5987 | .2620 | -1.8899 | .0192 |
| 2051 | 5.9549 | 28.9546 | 2.9106 | 25.4000 | 1.8640 | 1.6195 | .2655 | -1.9100 | .0200 |
| 2052 | 8.0080 | 29.0034 | 2.9145 | 25.4000 | 1.8618 | 1.6175 | .2651 | -1.8988 | .0210 |
| 2053 | 10.0432 | 28.9898 | 2.9135 | 25.4000 | 1.8675 | 1.6225 | .2659 | -1.8938 | .0218 |
| 2054 | 12.1850 | 29.0444 | 2.9222 | 25.4000 | 1.8536 | 1.6104 | .2640 | -1.8684 | .0225 |
| 2055 | 14.2768 | 29.1294 | 2.9246 | 25.4000 | 1.8657 | 1.6209 | .2657 | -1.8613 | .0232 |
| 2056 | 16.2823 | 29.1394 | 2.9301 | 25.4000 | 1.8756 | 1.6297 | .2670 | -1.8554 | .0236 |
| 2057 | 18.2183 | 29.0672 | 2.9222 | 25.4000 | 1.8559 | 1.6124 | .2643 | -1.8156 | .0237 |
| 2058 | 20.2967 | 29.2051 | 2.9300 | 25.4000 | 1.8567 | 1.6132 | .2644 | -1.7948 | .0242 |
| 2059 | 21.7701 | 29.2194 | 2.9331 | 25.4000 | 1.8744 | 1.6299 | .2656 | -1.7818 | .0246 |
| 2060 | .0562 | 29.0093 | 2.9078 | 25.4000 | 1.8500 | 1.6088 | .2620 | -1.8868 | .0190 |
| 2061 | .0109 | 0.0000 | .9680 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0315 | .0073 |

TEST 995 RUN 124

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2045 | .0126 | .3020 | .1134 | -.3266 | .3020 | .0855 | -.3266 | .3020 | .1061 | -.3266 | 1.0000 |
| 2046 | .0566 | 1.1439 | -1.4637 | -.7696 | 1.1421 | .3689 | -.5607 | 1.1438 | -1.4111 | -.7615 | 1.8000 |
| 2047 | -1.8253 | .9448 | -1.4803 | -.8361 | 1.0038 | .3491 | -.6274 | .9471 | -1.4300 | -.8282 | 1.8000 |
| 2048 | .0870 | 1.1484 | -1.4728 | -.7715 | 1.1455 | .3666 | -.5618 | 1.1482 | -1.4134 | -.7626 | 1.8000 |
| 2049 | 2.0028 | 1.3398 | -1.4455 | -.7026 | 1.2749 | .3912 | -.4931 | 1.3371 | -1.3877 | -.6939 | 1.8000 |
| 2050 | 3.9608 | 1.5427 | -1.3894 | -.6265 | 1.4156 | .4271 | -.4189 | 1.5385 | -1.3486 | -.6197 | 1.8000 |
| 2051 | 5.9549 | 1.7807 | -1.3616 | -.5496 | 1.5873 | .4724 | -.3393 | 1.7720 | -1.2980 | -.5401 | 1.8000 |
| 2052 | 8.0080 | 2.0122 | -1.2790 | -.4769 | 1.7528 | .5437 | -.2669 | 2.0008 | -1.2190 | -.4677 | 1.8000 |
| 2053 | 10.0432 | 2.2580 | -1.1966 | -.4190 | 1.9324 | .6284 | -.2084 | 2.2428 | -1.1323 | -.4092 | 1.8000 |
| 2054 | 12.1850 | 2.5125 | -1.0737 | -.3506 | 2.1213 | .7157 | -.1415 | 2.4978 | -1.0242 | -.3423 | 1.8000 |
| 2055 | 14.2768 | 2.7926 | -.9519 | -.2766 | 2.3326 | .8329 | -.0661 | 2.7715 | -.8921 | -.2670 | 1.8000 |
| 2056 | 16.2823 | 3.0365 | -.8269 | -.2148 | 2.5107 | .9499 | -.0032 | 3.0897 | -.7587 | -.2040 | 1.8000 |
| 2057 | 18.2183 | 3.2748 | -.6759 | -.1430 | 2.6946 | 1.0632 | .0664 | 3.2511 | -.6276 | -.1344 | 1.8000 |
| 2058 | 20.2967 | 3.5016 | -.5091 | -.0619 | 2.8576 | 1.2081 | .1476 | 3.4758 | -.4614 | -.0532 | 1.8000 |
| 2059 | 21.7701 | 3.6958 | -.3816 | -.0078 | 3.0006 | 1.3345 | .2037 | 3.6608 | -.3185 | .0029 | 1.8000 |
| 2060 | .0562 | 1.1308 | -1.4644 | -.7680 | 1.1282 | .3667 | -.5593 | 1.1299 | -1.4133 | -.7601 | 1.8000 |
| 2061 | .0109 | .3097 | .0968 | -.3280 | .3097 | .0581 | -.3280 | .3097 | .0896 | -.3280 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 125

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2064 | .166 | 1902 | .04 | -.00 | 99095 | .4533 | .1091 | .1036 | -.0017 | .0005 | .0004 |
| 2065 | .165 | 1896 | -1.83 | .00 | 99102 | .3207 | .1086 | .0348 | -.0020 | .0002 | -.0043 |
| 2066 | .166 | 1902 | .07 | -.00 | 99088 | .4595 | .1095 | .1067 | -.0019 | .0004 | -.0006 |
| 2067 | .166 | 1912 | 1.99 | -.00 | 99078 | .5979 | .1092 | .1833 | -.0019 | .0004 | .0027 |
| 2068 | .165 | 1886 | 3.94 | -.00 | 99098 | .7369 | .1208 | .2665 | .0001 | .0001 | -.0018 |
| 2069 | .167 | 1925 | 5.96 | -.00 | 99058 | .8829 | .1253 | .3404 | -.0008 | .0000 | -.0016 |
| 2070 | .166 | 1919 | 7.96 | -.00 | 99065 | 1.0290 | .1303 | .4095 | -.0017 | -.0001 | -.0001 |
| 2071 | .166 | 1912 | 10.06 | -.00 | 99065 | 1.1885 | .1318 | .4860 | -.0017 | .0000 | -.0008 |
| 2072 | .167 | 1925 | 12.18 | -.00 | 99045 | 1.3431 | .1327 | .5723 | -.0023 | .0003 | -.0033 |
| 2073 | .166 | 1919 | 14.32 | -.00 | 99048 | 1.4751 | .1271 | .6619 | -.0037 | .0011 | -.0007 |
| 2074 | .165 | 1892 | 16.23 | -.00 | 99078 | 1.5624 | .1221 | .7296 | -.0027 | .0010 | .0038 |
| 2075 | .165 | 1899 | 18.26 | -.00 | 99068 | 1.6770 | .1225 | .8036 | -.0017 | .0006 | .0026 |
| 2076 | .166 | 1905 | 20.25 | -.00 | 99058 | 1.8127 | .1224 | .8774 | -.0009 | .0006 | .0016 |
| 2077 | .166 | 1905 | 21.69 | .00 | 99058 | 1.9229 | .1192 | .9297 | .0008 | -.0012 | -.0125 |
| 2078 | .165 | 1892 | .06 | -.00 | 99068 | .4608 | .1173 | .1095 | -.0007 | .0007 | -.0022 |

TEST 995 RUN 125

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2064 | .0407 | 0.0000 | .9755 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0244 | .0081 |
| 2065 | -1.8316 | 0.0000 | .9770 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0230 | .0082 |
| 2066 | .0692 | 0.0000 | .9767 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0233 | .0082 |
| 2067 | 1.9939 | 0.0000 | .9768 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0230 | .0083 |
| 2068 | 3.9418 | 0.0000 | .9767 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0235 | .0084 |
| 2069 | 5.9613 | 0.0000 | .9763 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0083 |
| 2070 | 7.9621 | 0.0000 | .9763 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0080 |
| 2071 | 10.0586 | 0.0000 | .9741 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0253 | .0082 |
| 2072 | 12.1770 | 0.0000 | .9757 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0234 | .0086 |
| 2073 | 14.3155 | 0.0000 | .9738 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0251 | .0093 |
| 2074 | 16.2267 | 0.0000 | .9730 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0260 | .0101 |
| 2075 | 18.2624 | 0.0000 | .9715 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0271 | .0107 |
| 2076 | 20.2512 | 0.0000 | .9680 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0299 | .0113 |
| 2077 | 21.6915 | 0.0000 | .9683 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0293 | .0115 |
| 2078 | .0622 | 0.0000 | .9750 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0251 | .0081 |

TEST 995 RUN 125

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2064 | .0407 | .4532 | .1095 | .1036 | .4532 | .0769 | .1036 | .4532 | .1013 | .1036 | 1.0000 |
| 2065 | -1.8316 | .3240 | .0983 | .0348 | .3240 | .0671 | .0348 | .3240 | .0902 | .0348 | 1.0000 |
| 2066 | .0692 | .4594 | .1101 | .1067 | .4594 | .0786 | .1067 | .4594 | .1019 | .1067 | 1.0000 |
| 2067 | 1.9939 | .5937 | .1300 | .1833 | .5937 | .0986 | .1833 | .5937 | .1217 | .1833 | 1.0000 |
| 2068 | 3.9418 | .7268 | .1712 | .2665 | .7268 | .1393 | .2665 | .7268 | .1627 | .2665 | 1.0000 |
| 2069 | 5.9613 | .8651 | .2163 | .3404 | .8651 | .1848 | .3404 | .8651 | .2080 | .3404 | 1.0000 |
| 2070 | 7.9621 | 1.0010 | .2716 | .4095 | 1.0010 | .2485 | .4095 | 1.0010 | .2637 | .4095 | 1.0000 |
| 2071 | 10.0586 | 1.1472 | .3373 | .4860 | 1.1472 | .3038 | .4860 | 1.1472 | .3291 | .4860 | 1.0000 |
| 2072 | 12.1770 | 1.2849 | .4138 | .5723 | 1.2849 | .3810 | .5723 | 1.2849 | .4044 | .5723 | 1.0000 |
| 2073 | 14.3155 | 1.3979 | .4879 | .6619 | 1.3979 | .4535 | .6619 | 1.3979 | .4786 | .6619 | 1.0000 |
| 2074 | 16.2267 | 1.4660 | .5538 | .7296 | 1.4660 | .5178 | .7296 | 1.4660 | .5437 | .7296 | 1.0000 |
| 2075 | 18.2624 | 1.5541 | .6418 | .8036 | 1.5541 | .6040 | .8036 | 1.5541 | .6311 | .8036 | 1.0000 |
| 2076 | 20.2512 | 1.6583 | .7423 | .8774 | 1.6583 | .7011 | .8774 | 1.6583 | .7310 | .8774 | 1.0000 |
| 2077 | 21.6915 | 1.7427 | .8215 | .9297 | 1.7427 | .7807 | .9297 | 1.7427 | .8100 | .9297 | 1.0000 |
| 2078 | .0622 | .4607 | .1178 | .1095 | .4607 | .0846 | .1095 | .4607 | .1096 | .1095 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 126

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2079 | .166 | 1905 | .06 | -.00 | 99044 | .4611 | .1185 | .1076 | -.0009 | .0005 | -.0022 |
| 2080 | .166 | 1909 | .06 | -.00 | 99038 | .4510 | .1176 | .1101 | -.0009 | .0006 | -.0033 |
| 2081 | .167 | 1929 | .10 | -.00 | 99014 | 1.2883 | -1.4471 | -.3267 | -.0038 | .0006 | .0059 |
| 2082 | .167 | 1929 | -1.77 | .00 | 99014 | 1.1143 | -1.4654 | -.3922 | -.0045 | -.0015 | -.0128 |
| 1 | .167 | 1925 | .13 | .00 | 99017 | 1.2816 | -1.4139 | -.3210 | -.0050 | -.0011 | -.0130 |
| 2 | .167 | 1935 | 2.05 | .00 | 99007 | 1.4647 | -1.4153 | -.2470 | -.0049 | -.0010 | -.0130 |
| 3 | .165 | 1892 | 4.01 | .00 | 99044 | 1.6403 | -1.4664 | -.1707 | -.0029 | -.0018 | -.0107 |
| 4 | .166 | 1902 | 6.02 | .00 | 99034 | 1.7828 | -1.4521 | -.0730 | -.0024 | -.0014 | -.0117 |
| 5 | .166 | 1899 | 8.05 | .00 | 99034 | 1.9656 | -1.4419 | .0358 | -.0026 | -.0015 | -.0121 |
| 6 | .167 | 1925 | 10.12 | .00 | 99004 | 2.1312 | -1.4174 | .1404 | -.0037 | -.0026 | -.0329 |
| 7 | .166 | 1915 | 12.22 | .00 | 99007 | 2.3381 | -1.4320 | .1787 | -.0045 | -.0007 | -.0149 |
| 8 | .166 | 1905 | 14.32 | .00 | 99017 | 2.5234 | -1.4428 | .2422 | -.0045 | -.0012 | -.0161 |
| 9 | .166 | 1919 | 16.33 | .00 | 98997 | 2.7134 | -1.4294 | .3197 | -.0041 | -.0009 | -.0144 |
| 10 | .166 | 1909 | 18.34 | .00 | 99007 | 2.9389 | -1.4429 | .3884 | -.0050 | -.0009 | -.0126 |
| 11 | .166 | 1909 | 20.35 | .00 | 99004 | 3.1312 | -1.4541 | .4677 | -.0046 | -.0003 | -.0166 |
| 12 | .166 | 1919 | 21.83 | .00 | 98997 | 3.2274 | -1.4526 | .5382 | -.0024 | -.0002 | -.0192 |
| 13 | .166 | 1899 | .11 | .00 | 99010 | 1.2966 | -1.4676 | -.3330 | -.0048 | -.0006 | -.0153 |
| 14 | .166 | 1912 | .05 | -.00 | 98977 | .4607 | .0998 | .1861 | -.0013 | .0004 | -.0032 |

TEST 995 RUN 126

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2079 | .0578 | .7658 | .9747 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0253 | .0082 |
| 2080 | .0573 | 0.0000 | .9748 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0251 | .0081 |
| 2081 | .1046 | 28.7801 | 2.9481 | 25.4000 | 1.8332 | 1.5926 | .2611 | -1.9173 | .0199 |
| 2082 | -1.7700 | 28.9301 | 2.9631 | 25.4000 | 1.8485 | 1.6061 | .2632 | -1.9311 | .0199 |
| 1 | .1342 | 28.3069 | 2.9003 | 25.4000 | 1.7959 | 1.5602 | .2558 | -1.8735 | .0197 |
| 2 | 2.0511 | 28.4889 | 2.9134 | 25.4000 | 1.8029 | 1.5665 | .2566 | -1.8754 | .0202 |
| 3 | 4.0145 | 28.7170 | 2.9383 | 25.4000 | 1.8641 | 1.6197 | .2654 | -1.9402 | .0207 |
| 4 | 6.0217 | 28.6726 | 2.9389 | 25.4000 | 1.8492 | 1.6064 | .2635 | -1.9245 | .0211 |
| 5 | 8.0483 | 28.6791 | 2.9335 | 25.4000 | 1.8525 | 1.6095 | .2638 | -1.9140 | .0219 |
| 6 | 10.1232 | 28.7721 | 2.9420 | 25.4000 | 1.8333 | 1.5927 | .2612 | -1.8846 | .0232 |
| 7 | 12.2200 | 28.7469 | 2.9367 | 25.4000 | 1.8397 | 1.5984 | .2620 | -1.8756 | .0233 |
| 8 | 14.3217 | 28.7454 | 2.9381 | 25.4000 | 1.8483 | 1.6058 | .2633 | -1.8706 | .0238 |
| 9 | 16.3288 | 28.7038 | 2.9301 | 25.4000 | 1.8303 | 1.5901 | .2608 | -1.8321 | .0248 |
| 10 | 18.3432 | 28.7088 | 2.9274 | 25.4000 | 1.8408 | 1.5995 | .2620 | -1.8191 | .0260 |
| 11 | 20.3461 | 28.7768 | 2.9355 | 25.4000 | 1.8464 | 1.6042 | .2629 | -1.8044 | .0275 |
| 12 | 21.8348 | 28.8043 | 2.9369 | 25.4000 | 1.8388 | 1.5968 | .2618 | -1.7784 | .0290 |
| 13 | .1060 | 28.7816 | 2.9338 | 25.4000 | 1.8553 | 1.6119 | .2643 | -1.9330 | .0202 |
| 14 | .0463 | 0.0000 | .9651 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0346 | .0082 |

TEST 995 RUN 126

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2079 | .0578 | .4610 | .1189 | .1076 | .4610 | .0855 | .1076 | .4610 | .1107 | .1076 | 1.0000 |
| 2080 | .0573 | .4509 | .1181 | .1101 | .4509 | .0849 | .1101 | .4509 | .1100 | .1101 | 1.0000 |
| 2081 | .1046 | 1.2910 | -1.4447 | -.3267 | 1.2876 | .3685 | -.1199 | 1.2909 | -1.4115 | -.3287 | 1.8000 |
| 2082 | -1.7700 | 1.0685 | -1.4991 | -.3922 | 1.1256 | .3286 | -.1837 | 1.0706 | -1.4506 | -.3845 | 1.8000 |
| 1 | .1342 | 1.2849 | -1.4109 | -.3218 | 1.2887 | .3652 | -.1184 | 1.2848 | -1.4148 | -.3192 | 1.8000 |
| 2 | 2.0511 | 1.5144 | -1.3620 | -.2470 | 1.4499 | .4196 | -.0436 | 1.5136 | -1.3593 | -.2445 | 1.8000 |
| 3 | 4.0145 | 1.7389 | -1.3480 | -.1707 | 1.6084 | .4909 | .0396 | 1.7330 | -1.2848 | -.1612 | 1.8000 |
| 4 | 6.0217 | 1.9253 | -1.2571 | -.0730 | 1.7314 | .5608 | .1357 | 1.9181 | -1.2094 | -.0652 | 1.8000 |
| 5 | 8.0483 | 2.1481 | -1.1525 | .0358 | 1.8888 | .6598 | .2448 | 2.1380 | -1.1027 | .0440 | 1.8000 |
| 6 | 10.1232 | 2.3472 | -1.0207 | .1404 | 2.0250 | .7608 | .3473 | 2.3378 | -.9914 | .1464 | 1.8000 |
| 7 | 12.2200 | 2.5863 | -.9046 | .1787 | 2.1969 | .8701 | .3862 | 2.5756 | -.8695 | .1854 | 1.8000 |
| 8 | 14.3217 | 2.8019 | -.7737 | .2422 | 2.3447 | .9933 | .4507 | 2.7850 | -.7314 | .2499 | 1.8000 |
| 9 | 16.3288 | 3.0058 | -.6089 | .3197 | 2.4912 | 1.1228 | .5262 | 2.9917 | -.5854 | .3254 | 1.8000 |
| 10 | 18.3432 | 3.2437 | -.4447 | .3884 | 2.6643 | 1.2766 | .5960 | 3.2245 | -.4129 | .3952 | 1.8000 |
| 11 | 20.3461 | 3.4414 | -.2747 | .4677 | 2.7994 | 1.4291 | .6760 | 3.4183 | -.2399 | .4751 | 1.8000 |
| 12 | 21.8348 | 3.5361 | -.1480 | .5382 | 2.8525 | 1.5292 | .7456 | 3.5145 | -.1231 | .5447 | 1.8000 |
| 13 | .1060 | 1.2993 | -1.4652 | -.3330 | 1.2959 | .3699 | -.1236 | 1.2992 | -1.4101 | -.3245 | 1.8000 |
| 14 | .0463 | .4606 | .1002 | .1061 | .4606 | .0574 | .1061 | .4606 | .0920 | .1061 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 127

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2100 | .166 | 1899 | .03 | -.00 | 98916 | .4692 | .0773 | .0106 | -.0016 | .0007 | -.0022 |
| 2101 | .167 | 1932 | -1.85 | -.00 | 98902 | .3247 | .0752 | -.0721 | -.0011 | .0004 | -.0027 |
| 2102 | .167 | 1942 | .06 | -.00 | 98899 | .4672 | .0760 | .0128 | -.0013 | .0008 | -.0010 |
| 2103 | .167 | 1929 | 1.97 | -.00 | 98875 | .6164 | .0786 | .0970 | -.0015 | .0006 | .0013 |
| 2104 | .168 | 1958 | 3.93 | -.00 | 98903 | .7401 | .0742 | .1751 | -.0014 | .0004 | .0011 |
| 2105 | .166 | 1899 | 5.93 | -.00 | 98919 | .9028 | .0718 | .2626 | -.0012 | -.0000 | -.0003 |
| 2106 | .166 | 1912 | 7.98 | .00 | 98986 | 1.0606 | .0662 | .3449 | -.0016 | -.0015 | -.0213 |
| 2107 | .166 | 1902 | 10.04 | -.00 | 98922 | 1.1960 | .0645 | .4188 | .0017 | .0005 | -.0005 |
| 2108 | .166 | 1902 | 12.15 | -.00 | 98912 | 1.3514 | .0568 | .4952 | -.0003 | .0006 | -.0004 |
| 2109 | .167 | 1932 | 14.23 | -.00 | 98933 | 1.4842 | .0514 | .5712 | -.0001 | .0006 | .0012 |
| 2110 | .166 | 1915 | 16.24 | -.00 | 98916 | 1.6531 | .0478 | .6705 | -.0007 | .0005 | .0011 |
| 2111 | .166 | 1905 | 18.24 | -.00 | 98933 | 1.7883 | .0440 | .7593 | -.0004 | .0007 | .0017 |
| 2112 | .168 | 1948 | 20.24 | -.00 | 98896 | 1.9093 | .0357 | .8387 | .0003 | .0008 | .0047 |
| 2113 | .167 | 1938 | 21.71 | -.00 | 98896 | 2.0112 | .0320 | .8992 | -.0006 | .0011 | .0048 |
| 2114 | .169 | 1971 | .04 | -.00 | 98872 | .4578 | .0808 | .0132 | -.0008 | .0008 | -.0035 |

TEST 995 RUN 127

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2100 | .0320 | .0580 | .9764 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0080 |
| 2101 | -1.8450 | .0411 | .9759 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0080 |
| 2102 | .0605 | .0580 | .9763 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0079 |
| 2103 | 1.9749 | .0405 | .9754 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0080 |
| 2104 | 3.9347 | .0408 | .9754 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0237 | .0078 |
| 2105 | 5.9270 | .0408 | .9760 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0079 |
| 2106 | 7.9763 | .0584 | .9736 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0259 | .0078 |
| 2107 | 10.0389 | 0.0000 | .9755 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0080 |
| 2108 | 12.1509 | .0411 | .9750 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0244 | .0081 |
| 2109 | 14.2335 | .0411 | .9744 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0244 | .0081 |
| 2110 | 16.2394 | .0411 | .9750 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0084 |
| 2111 | 18.2422 | .0406 | .9731 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0254 | .0085 |
| 2112 | 20.2411 | .0585 | .9709 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0266 | .0087 |
| 2113 | 21.7135 | .0581 | .9704 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0269 | .0091 |
| 2114 | .0441 | .0581 | .9736 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0254 | .0078 |

TEST 995 RUN 127

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2100 | .0320 | .4691 | .0776 | .0106 | .4691 | .0460 | .0106 | .4691 | .0695 | .0106 | 1.0000 |
| 2101 | -1.8450 | .3270 | .0647 | -.0721 | .3270 | .0331 | -.0721 | .3270 | .0567 | -.0721 | 1.0000 |
| 2102 | .0605 | .4671 | .0765 | .0128 | .4671 | .0454 | .0128 | .4671 | .0686 | .0128 | 1.0000 |
| 2103 | 1.9749 | .6133 | .0998 | .0970 | .6133 | .0677 | .0970 | .6133 | .0918 | .0970 | 1.0000 |
| 2104 | 3.9347 | .7332 | .1248 | .1751 | .7332 | .0933 | .1751 | .7332 | .1170 | .1751 | 1.0000 |
| 2105 | 5.9270 | .8905 | .1647 | .2626 | .8905 | .1329 | .2626 | .8905 | .1567 | .2626 | 1.0000 |
| 2106 | 7.9763 | 1.0412 | .2128 | .3449 | 1.0412 | .1790 | .3449 | 1.0412 | .2049 | .3449 | 1.0000 |
| 2107 | 10.0389 | 1.1665 | .2720 | .4188 | 1.1665 | .2399 | .4188 | 1.1665 | .2640 | .4188 | 1.0000 |
| 2108 | 12.1509 | 1.3091 | .3400 | .4952 | 1.3091 | .3075 | .4952 | 1.3091 | .3319 | .4952 | 1.0000 |
| 2109 | 14.2335 | 1.4260 | .4148 | .5712 | 1.4260 | .3823 | .5712 | 1.4260 | .4067 | .5712 | 1.0000 |
| 2110 | 16.2394 | 1.5738 | .5082 | .6705 | 1.5738 | .4760 | .6705 | 1.5738 | .4998 | .6705 | 1.0000 |
| 2111 | 18.2422 | 1.6846 | .6016 | .7593 | 1.6846 | .5677 | .7593 | 1.6846 | .5931 | .7593 | 1.0000 |
| 2112 | 20.2411 | 1.7790 | .6941 | .8387 | 1.7790 | .6588 | .8387 | 1.7790 | .6854 | .8387 | 1.0000 |
| 2113 | 21.7135 | 1.8567 | .7738 | .8992 | 1.8567 | .7378 | .8992 | 1.8567 | .7647 | .8992 | 1.0000 |
| 2114 | .0441 | .4578 | .0811 | .0132 | .4578 | .0479 | .0132 | .4578 | .0733 | .0132 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 128

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2115 | .168 | 1945 | .04 | -.00 | 98875 | .4664 | .0807 | .0122 | -.0027 | .0009 | -.0040 |
| 2116 | .169 | 1988 | .03 | -.00 | 98862 | .4485 | .0792 | .0155 | -.0013 | .0009 | -.0021 |
| 2117 | .167 | 1922 | .08 | .00 | 98943 | 1.2711 | -1.4813 | -.4143 | -.0030 | .0046 | -.0247 |
| 2118 | .166 | 1919 | -1.79 | .00 | 98943 | 1.1007 | -1.4970 | -.4916 | -.0026 | .0044 | -.0192 |
| 2119 | .164 | 1853 | .12 | .00 | 98973 | 1.3125 | -1.5584 | -.4307 | -.0033 | .0047 | -.0242 |
| 2120 | .167 | 1922 | 2.03 | .00 | 98929 | 1.4290 | -1.4830 | -.3358 | -.0028 | .0048 | -.0224 |
| 2121 | .166 | 1909 | 3.99 | .00 | 98950 | 1.5739 | -1.5011 | -.2607 | -.0027 | .0043 | -.0229 |
| 2122 | .166 | 1899 | 6.00 | .00 | 98953 | 1.7526 | -1.5052 | -.1721 | -.0023 | .0042 | -.0243 |
| 2123 | .165 | 1892 | 8.01 | .00 | 98953 | 1.9216 | -1.5204 | -.0929 | -.0032 | .0043 | -.0225 |
| 2124 | .165 | 1889 | 10.10 | .00 | 98959 | 2.0864 | -1.5257 | -.0162 | -.0026 | .0042 | -.0223 |
| 2125 | .165 | 1886 | 12.20 | .00 | 98953 | 2.2829 | -1.5333 | .0578 | -.0014 | .0044 | -.0222 |
| 2126 | .165 | 1889 | 14.30 | .00 | 98936 | 2.5188 | -1.5352 | .1305 | -.0024 | .0044 | -.0202 |
| 2127 | .166 | 1909 | 16.30 | .00 | 98946 | 2.6637 | -1.5384 | .2041 | -.0015 | .0047 | -.0185 |
| 2128 | .167 | 1942 | 18.30 | .00 | 98906 | 2.8326 | -1.5228 | .2939 | -.0012 | .0045 | -.0220 |
| 2129 | .166 | 1919 | 20.32 | .00 | 98940 | 3.0118 | -1.5537 | .3693 | -.0014 | .0046 | -.0228 |
| 2130 | .166 | 1899 | 21.70 | .00 | 98946 | 3.1573 | -1.5757 | .4267 | -.0017 | .0042 | -.0254 |
| 2131 | .166 | 1912 | .09 | .00 | 98929 | 1.2731 | -1.5109 | -.4177 | -.0030 | .0045 | -.0235 |
| 2132 | .165 | 1882 | .04 | -.00 | 98939 | .4601 | .0615 | .0099 | -.0021 | .0005 | -.0020 |

TEST 995 RUN 128

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2115 | .0373 | 1.3117 | .9731 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0262 | .0079 |
| 2116 | .0323 | .0611 | .9719 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0268 | .0077 |
| 2117 | .0774 | 28.5721 | 2.9170 | 25.4000 | 1.8273 | 1.5877 | .2601 | -1.8918 | .0209 |
| 2118 | -1.7911 | 28.7492 | 2.9332 | 25.4000 | 1.8455 | 1.6035 | .2627 | -1.9102 | .0210 |
| 2119 | .1234 | 28.8208 | 2.9393 | 25.4000 | 1.9167 | 1.6653 | .2729 | -1.9861 | .0216 |
| 2120 | 2.0336 | 28.6215 | 2.9162 | 25.4000 | 1.8288 | 1.5890 | .2604 | -1.8896 | .0215 |
| 2121 | 3.9911 | 28.6484 | 2.9173 | 25.4000 | 1.8432 | 1.6016 | .2623 | -1.9007 | .0219 |
| 2122 | 6.0047 | 28.7065 | 2.9204 | 25.4000 | 1.8557 | 1.6123 | .2642 | -1.9079 | .0226 |
| 2123 | 8.0052 | 28.6623 | 2.9219 | 25.4000 | 1.8602 | 1.6163 | .2648 | -1.9079 | .0235 |
| 2124 | 10.1033 | 28.7557 | 2.9269 | 25.4000 | 1.8708 | 1.6255 | .2663 | -1.9071 | .0240 |
| 2125 | 12.1995 | 28.7664 | 2.9292 | 25.4000 | 1.8731 | 1.6274 | .2668 | -1.8969 | .0247 |
| 2126 | 14.2968 | 28.7822 | 2.9264 | 25.4000 | 1.8701 | 1.6248 | .2663 | -1.8743 | .0249 |
| 2127 | 16.2983 | 28.8411 | 2.9314 | 25.4000 | 1.8555 | 1.6122 | .2642 | -1.8422 | .0247 |
| 2128 | 18.3030 | 28.8728 | 2.9366 | 25.4000 | 1.8262 | 1.5866 | .2601 | -1.7953 | .0256 |
| 2129 | 20.3247 | 28.9312 | 2.9393 | 25.4000 | 1.8531 | 1.6101 | .2639 | -1.7978 | .0269 |
| 2130 | 21.7008 | 28.9257 | 2.9402 | 25.4000 | 1.8721 | 1.6266 | .2666 | -1.8007 | .0280 |
| 2131 | .0887 | 28.9272 | 2.9365 | 25.4000 | 1.8578 | 1.6141 | .2646 | -1.9207 | .0212 |
| 2132 | .0381 | 0.0000 | .9663 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0340 | .0078 |

TEST 995 RUN 128

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2115 | .0373 | .4664 | .0810 | .0122 | .4664 | .0469 | .0122 | .4664 | .0731 | .0122 | 1.0000 |
| 2116 | .0323 | .4484 | .0794 | .0155 | .4484 | .0449 | .0155 | .4484 | .0717 | .0155 | 1.0000 |
| 2117 | .0774 | 1.2731 | -1.4796 | -.4143 | 1.2706 | .3268 | -.2082 | 1.2731 | -1.4532 | -.4090 | 1.8000 |
| 2118 | -1.7911 | 1.0534 | -1.5386 | -.4916 | 1.1111 | .2930 | -.2834 | 1.0554 | -1.4862 | -.4842 | 1.8000 |
| 2119 | .1234 | 1.3159 | -1.5556 | -.4307 | 1.3118 | .3395 | -.2145 | 1.3156 | -1.4405 | -.4153 | 1.8000 |
| 2120 | 2.0336 | 1.4807 | -1.4314 | -.3358 | 1.4158 | .3748 | -.1294 | 1.4790 | -1.4041 | -.3303 | 1.8000 |
| 2121 | 3.9911 | 1.6745 | -1.3879 | -.2607 | 1.5463 | .4289 | -.0527 | 1.6701 | -1.3467 | -.2535 | 1.8000 |
| 2122 | 6.0047 | 1.9004 | -1.3136 | -.1721 | 1.7063 | .5093 | .0372 | 1.8925 | -1.2609 | -.1636 | 1.8000 |
| 2123 | 8.0052 | 2.1146 | -1.2380 | -.0929 | 1.8556 | .5806 | .1169 | 2.1035 | -1.1821 | -.0839 | 1.8000 |
| 2124 | 10.1033 | 2.3217 | -1.1360 | -.0162 | 1.9936 | .6817 | .1949 | 2.3058 | -1.0707 | -.0059 | 1.8000 |
| 2125 | 12.1995 | 2.5554 | -1.0163 | .0578 | 2.1596 | .7898 | .2691 | 2.5357 | -.9580 | .0683 | 1.8000 |
| 2126 | 14.2968 | 2.8114 | -.8678 | .1305 | 2.3496 | .9195 | .3415 | 2.7891 | -.8054 | .1406 | 1.8000 |
| 2127 | 16.2983 | 2.9884 | -.7290 | .2041 | 2.4676 | 1.0272 | .4134 | 2.9672 | -.6813 | .2126 | 1.8000 |
| 2128 | 18.3030 | 3.1675 | -.5562 | .2939 | 2.5940 | 1.1520 | .4999 | 3.1530 | -.5380 | .2991 | 1.8000 |
| 2129 | 20.3247 | 3.3640 | -.4108 | .3693 | 2.7203 | 1.3000 | .5784 | 3.3386 | -.3692 | .3776 | 1.8000 |
| 2130 | 21.7008 | 3.5161 | -.2966 | .4267 | 2.8239 | 1.4149 | .6379 | 3.4828 | -.2390 | .4371 | 1.8000 |
| 2131 | .0887 | 1.2754 | -1.5090 | -.4177 | 1.2725 | .3277 | -.2081 | 1.2753 | -1.4523 | -.4089 | 1.8000 |
| 2132 | .0381 | .4600 | .0618 | .0099 | .4600 | .0200 | .0099 | .4600 | .0539 | .0099 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 129

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2135 | .167 | 1919 | .01 | -.00 | 98818 | .3755 | .0743 | -.2213 | -.0014 | .0005 | .0006 |
| 2136 | .166 | 1899 | -1.87 | -.00 | 98838 | .2337 | .0861 | -.3021 | -.0021 | -.0001 | -.0019 |
| 2137 | .166 | 1909 | .07 | -.00 | 98828 | .3811 | .0735 | -.2203 | -.0018 | .0004 | -.0004 |
| 2138 | .166 | 1912 | 1.95 | -.00 | 98841 | .5183 | .0616 | -.1371 | -.0017 | .0002 | -.0005 |
| 2139 | .165 | 1879 | 3.92 | -.00 | 98854 | .6715 | .0469 | -.0566 | -.0010 | -.0003 | .0026 |
| 2140 | .164 | 1866 | 5.92 | -.00 | 98871 | .8213 | .0302 | .0217 | -.0000 | -.0010 | -.0004 |
| 2141 | .166 | 1909 | 7.96 | -.00 | 98824 | .9820 | .0142 | .0985 | -.0005 | .0003 | .0039 |
| 2142 | .165 | 1886 | 10.01 | .00 | 98851 | 1.1386 | -.0004 | .1860 | -.0007 | -.0003 | -.0061 |
| 2143 | .164 | 1872 | 12.12 | -.00 | 98861 | 1.2695 | -.0119 | .2844 | -.0003 | .0003 | .0043 |
| 2144 | .165 | 1886 | 14.20 | -.00 | 98841 | 1.4033 | -.0189 | .3822 | -.0009 | .0004 | .0030 |
| 2145 | .166 | 1899 | 16.21 | -.00 | 98824 | 1.5195 | -.0253 | .4695 | -.0013 | .0001 | .0038 |
| 2146 | .165 | 1886 | 18.22 | -.00 | 98844 | 1.6263 | -.0315 | .5550 | -.0009 | .0001 | .0043 |
| 2147 | .165 | 1886 | 20.23 | -.00 | 98844 | 1.7533 | -.0396 | .6472 | .0013 | .0004 | .0032 |
| 2148 | .166 | 1896 | 21.63 | -.00 | 98831 | 1.8384 | -.0446 | .7131 | .0013 | .0007 | .0036 |
| 2149 | .167 | 1935 | .03 | -.00 | 98801 | .3736 | .0773 | -.2174 | -.0019 | .0002 | -.0004 |

TEST 995 RUN 129

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2135 | .0124 | 0.0000 | .9772 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0225 | .0076 |
| 2136 | -1.8749 | 0.0000 | .9770 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0230 | .0077 |
| 2137 | .0708 | 0.0000 | .9768 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0230 | .0076 |
| 2138 | 1.9544 | 0.0000 | .9763 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0235 | .0074 |
| 2139 | 3.9169 | 0.0000 | .9764 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0075 |
| 2140 | 5.9186 | 0.0000 | .9770 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0233 | .0073 |
| 2141 | 7.9561 | 0.0000 | .9764 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0074 |
| 2142 | 10.0094 | 0.0000 | .9764 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0234 | .0075 |
| 2143 | 12.1249 | 0.0000 | .9761 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0077 |
| 2144 | 14.2036 | 0.0000 | .9756 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0080 |
| 2145 | 16.2124 | 0.0000 | .9737 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0252 | .0082 |
| 2146 | 18.2185 | 0.0000 | .9729 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0259 | .0083 |
| 2147 | 20.2278 | 0.0000 | .9718 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0266 | .0086 |
| 2148 | 21.6297 | 0.0000 | .9704 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0275 | .0088 |
| 2149 | .0312 | 0.0000 | .9758 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0237 | .0075 |

TEST 995 RUN 129

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2135 | .0124 | .3754 | .0744 | -.2213 | .3754 | .0443 | -.2213 | .3754 | .0669 | -.2213 | 1.0000 |
| 2136 | -1.8749 | .2364 | .0784 | -.3021 | .2364 | .0477 | -.3021 | .2364 | .0707 | -.3021 | 1.0000 |
| 2137 | .0708 | .3810 | .0740 | -.2203 | .3810 | .0434 | -.2203 | .3818 | .0664 | -.2203 | 1.0000 |
| 2138 | 1.9544 | .5159 | .0793 | -.1371 | .5159 | .0483 | -.1371 | .5159 | .0718 | -.1371 | 1.0000 |
| 2139 | 3.9169 | .6667 | .0926 | -.0566 | .6667 | .0614 | -.0566 | .6667 | .0851 | -.0566 | 1.0000 |
| 2140 | 5.9186 | .8138 | .1148 | .0217 | .8138 | .0842 | .0217 | .8138 | .1075 | .0217 | 1.0000 |
| 2141 | 7.9561 | .9705 | .1500 | .0985 | .9705 | .1194 | .0985 | .9705 | .1426 | .0985 | 1.0000 |
| 2142 | 10.0094 | 1.1213 | .1975 | .1860 | 1.1213 | .1666 | .1860 | 1.1213 | .1900 | .1860 | 1.0000 |
| 2143 | 12.1249 | 1.2437 | .2551 | .2844 | 1.2437 | .2237 | .2844 | 1.2437 | .2473 | .2844 | 1.0000 |
| 2144 | 14.2036 | 1.3650 | .3260 | .3822 | 1.3650 | .2943 | .3822 | 1.3650 | .3181 | .3822 | 1.0000 |
| 2145 | 16.2124 | 1.4662 | .3999 | .4695 | 1.4662 | .3665 | .4695 | 1.4662 | .3918 | .4695 | 1.0000 |
| 2146 | 18.2185 | 1.5546 | .4786 | .5550 | 1.5546 | .4443 | .5550 | 1.5546 | .4703 | .5550 | 1.0000 |
| 2147 | 20.2278 | 1.6588 | .5690 | .6472 | 1.6588 | .5338 | .6472 | 1.6588 | .5604 | .6472 | 1.0000 |
| 2148 | 21.6297 | 1.7254 | .6362 | .7131 | 1.7254 | .5999 | .7131 | 1.7254 | .6274 | .7131 | 1.0000 |
| 2149 | .0312 | .3735 | .0775 | -.2174 | .3735 | .0463 | -.2174 | .3735 | .0700 | -.2174 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 130

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2150 | .166 | 1912 | .02 | -.00 | 98814 | .3675 | .0773 | -.2184 | -.0018 | .0002 | -.0016 |
| 2151 | .167 | 1919 | .02 | -.00 | 98791 | .3746 | .0778 | -.2182 | -.0016 | .0002 | -.0005 |
| 2153 | .166 | 1909 | .06 | .00 | 98797 | 1.1824 | -1.4439 | -.6410 | -.0026 | .0060 | -.0290 |
| 2154 | .166 | 1899 | -1.81 | .00 | 98807 | 1.0404 | -1.4613 | -.7210 | -.0024 | .0061 | -.0235 |
| 2155 | .166 | 1902 | .10 | .00 | 98800 | 1.2031 | -1.4892 | -.6462 | -.0027 | .0063 | -.0299 |
| 2156 | .165 | 1892 | 2.00 | .00 | 98817 | 1.3524 | -1.4560 | -.5586 | -.0016 | .0062 | -.0261 |
| 2157 | .165 | 1892 | 3.96 | .00 | 98817 | 1.5035 | -1.4468 | -.4763 | -.0014 | .0048 | -.0245 |
| 2158 | .165 | 1886 | 5.97 | .00 | 98824 | 1.6743 | -1.4616 | -.4021 | -.0011 | .0051 | -.0378 |
| 2159 | .166 | 1905 | 7.99 | .00 | 98807 | 1.8605 | -1.4745 | -.3269 | -.0008 | .0047 | -.0244 |
| 2160 | .165 | 1892 | 10.08 | .00 | 98804 | 2.0314 | -1.5140 | -.2467 | -.0010 | .0052 | -.0248 |
| 2161 | .166 | 1902 | 12.18 | .00 | 98800 | 2.2043 | -1.5328 | -.1617 | -.0006 | .0054 | -.0250 |
| 2162 | .166 | 1909 | 14.28 | .00 | 98794 | 2.4294 | -1.5570 | -.0882 | -.0021 | .0055 | -.0237 |
| 2163 | .167 | 1919 | 16.28 | .00 | 98791 | 2.6565 | -1.5832 | -.0158 | -.0018 | .0058 | -.0218 |
| 2164 | .167 | 1919 | 18.29 | .00 | 98787 | 2.8881 | -1.6206 | .0544 | -.0019 | .0057 | -.0223 |
| 2165 | .166 | 1905 | 20.26 | .00 | 98801 | 3.1250 | -1.6707 | .1286 | -.0012 | .0061 | -.0219 |
| 2166 | .167 | 1919 | 21.79 | .00 | 98804 | 3.2798 | -1.6919 | .1874 | -.0003 | .0056 | -.0230 |
| 2167 | .166 | 1909 | .07 | .00 | 98801 | 1.2054 | -1.5204 | -.6518 | -.0027 | .0061 | -.0272 |
| 2168 | .165 | 1886 | -.00 | -.00 | 98807 | .3812 | .0584 | -.2213 | -.0016 | .0002 | -.0004 |

TEST 995 RUN 130

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2150 | .0213 | 0.0000 | .9760 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0075 |
| 2151 | .0172 | 0.0000 | .9751 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0246 | .0075 |
| 2153 | .0552 | 28.0738 | 2.8722 | 25.4000 | 1.7912 | 1.5560 | .2553 | -1.8577 | .0213 |
| 2154 | -1.8081 | 28.2235 | 2.8868 | 25.4000 | 1.8145 | 1.5763 | .2586 | -1.8812 | .0214 |
| 2155 | .0981 | 28.5039 | 2.9121 | 25.4000 | 1.8353 | 1.5944 | .2616 | -1.9039 | .0218 |
| 2156 | 2.0033 | 27.8762 | 2.8449 | 25.4000 | 1.7884 | 1.5537 | .2548 | -1.8458 | .0215 |
| 2157 | 3.9565 | 27.5438 | 2.8137 | 25.4000 | 1.7587 | 1.5279 | .2505 | -1.8114 | .0216 |
| 2158 | 5.9712 | 27.4713 | 2.8070 | 25.4000 | 1.7581 | 1.5274 | .2505 | -1.8056 | .0220 |
| 2159 | 7.9867 | 27.6812 | 2.8323 | 25.4000 | 1.7601 | 1.5292 | .2507 | -1.8037 | .0229 |
| 2160 | 10.0845 | 27.8748 | 2.8489 | 25.4000 | 1.7872 | 1.5525 | .2548 | -1.8221 | .0239 |
| 2161 | 12.1768 | 28.0637 | 2.8676 | 25.4000 | 1.7953 | 1.5597 | .2558 | -1.8178 | .0244 |
| 2162 | 14.2755 | 28.2456 | 2.8839 | 25.4000 | 1.8055 | 1.5686 | .2572 | -1.8115 | .0248 |
| 2163 | 16.2792 | 28.4235 | 2.9036 | 25.4000 | 1.8118 | 1.5740 | .2581 | -1.8036 | .0253 |
| 2164 | 18.2893 | 28.6066 | 2.9227 | 25.4000 | 1.8281 | 1.5882 | .2605 | -1.8019 | .0261 |
| 2165 | 20.2641 | 28.7620 | 2.9417 | 25.4000 | 1.8555 | 1.6120 | .2644 | -1.8106 | .0275 |
| 2166 | 21.7901 | 28.9752 | 2.9633 | 25.4000 | 1.8625 | 1.6182 | .2652 | -1.7997 | .0282 |
| 2167 | .0659 | 28.9360 | 2.9532 | 25.4000 | 1.8647 | 1.6198 | .2658 | -1.9381 | .0220 |
| 2168 | -.0035 | 0.0000 | .9718 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0283 | .0076 |

TEST 995 RUN 130

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2150 | .0213 | .3675 | .0774 | -.2184 | .3675 | .0462 | -.2184 | .3675 | .0699 | -.2184 | 1.8000 |
| 2151 | .0172 | .3745 | .0779 | -.2182 | .3745 | .0458 | -.2182 | .3745 | .0704 | -.2182 | 1.8000 |
| 2153 | .0552 | 1.1838 | -1.4428 | -.6410 | 1.1820 | .3271 | -.4389 | 1.1837 | -1.4529 | -.6397 | 1.8000 |
| 2154 | -1.8081 | .9938 | -1.4934 | -.7210 | 1.0510 | .2987 | -.5163 | .9949 | -1.4804 | -.7172 | 1.8000 |
| 2155 | .0981 | 1.2056 | -1.4871 | -.6462 | 1.2025 | .3264 | -.4391 | 1.2055 | -1.4536 | -.6400 | 1.8000 |
| 2156 | 2.0033 | 1.4024 | -1.4078 | -.5586 | 1.3399 | .3580 | -.3568 | 1.4021 | -1.4210 | -.5576 | 1.8000 |
| 2157 | 3.9565 | 1.5998 | -1.3397 | -.4763 | 1.4784 | .3932 | -.2779 | 1.6012 | -1.3825 | -.4787 | 1.8000 |
| 2158 | 5.9712 | 1.8173 | -1.2795 | -.4021 | 1.6344 | .4470 | -.2038 | 1.8195 | -1.3233 | -.4046 | 1.8000 |
| 2159 | 7.9867 | 2.0473 | -1.2017 | -.3269 | 1.8827 | .5185 | -.1284 | 2.0500 | -1.2442 | -.3292 | 1.8000 |
| 2160 | 10.0845 | 2.2651 | -1.1349 | -.2467 | 1.9522 | .6008 | -.0451 | 2.2639 | -1.1517 | -.2459 | 1.8000 |
| 2161 | 12.1768 | 2.4781 | -1.0333 | -.1617 | 2.0994 | .6972 | .0409 | 2.4748 | -1.0427 | -.1600 | 1.8000 |
| 2162 | 14.2755 | 2.7384 | -.9059 | -.0882 | 2.2932 | .8150 | .1155 | 2.7321 | -.9100 | -.0853 | 1.8000 |
| 2163 | 16.2792 | 2.9938 | -.7751 | -.0158 | 2.4859 | .9388 | .1886 | 2.9849 | -.7699 | -.0122 | 1.8000 |
| 2164 | 18.2893 | 3.2508 | -.6324 | .0544 | 2.6771 | 1.0773 | .2607 | 3.2356 | -.6128 | .0599 | 1.8000 |
| 2165 | 20.2641 | 3.5102 | -.4858 | .1286 | 2.8676 | 1.2282 | .3379 | 3.4841 | -.4417 | .1371 | 1.8000 |
| 2166 | 21.7901 | 3.6735 | -.3535 | .1874 | 2.9822 | 1.3478 | .3975 | 3.6429 | -.3051 | .1967 | 1.8000 |
| 2167 | .0659 | 1.2072 | -1.5190 | -.6518 | 1.2050 | .3236 | -.4415 | 1.2071 | -1.4564 | -.6423 | 1.8000 |
| 2168 | -.0035 | .3812 | .0584 | -.2213 | .3812 | .0225 | -.2213 | .3812 | .0508 | -.2213 | 1.8000 |

TEST 995 NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL RUN 131

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2180 | .166 | 1909 | .01 | -.00 | 98753 | .4403 | .0631 | -.1159 | -.0017 | .0001 | -.0044 |
| 2181 | .166 | 1896 | -1.87 | -.00 | 98760 | .2750 | .0667 | -.1810 | -.0026 | -.0001 | -.0044 |
| 2182 | .166 | 1905 | .05 | -.00 | 98753 | .4294 | .0622 | -.1140 | -.0008 | -.0006 | .0079 |
| 2183 | .166 | 1896 | 1.96 | -.00 | 98753 | .5585 | .0557 | -.0386 | -.0017 | .0000 | -.0040 |
| 2184 | .166 | 1902 | 3.94 | -.00 | 98753 | .7094 | .0453 | .0412 | -.0012 | -.0001 | -.0013 |
| 2185 | .166 | 1905 | 5.94 | -.00 | 98750 | .8533 | .0340 | .1189 | -.0005 | -.0006 | -.0024 |
| 2186 | .165 | 1892 | 7.96 | -.00 | 98767 | 1.0018 | .0233 | .1949 | .0006 | -.0005 | -.0012 |
| 2187 | .166 | 1909 | 10.03 | -.00 | 98746 | 1.1500 | .0156 | .2766 | -.0011 | .0001 | -.0025 |
| 2188 | .166 | 1902 | 12.13 | -.00 | 98750 | 1.2868 | .0102 | .3620 | -.0010 | .0001 | -.0034 |
| 2189 | .166 | 1905 | 14.21 | -.00 | 98746 | 1.4188 | .0073 | .4389 | -.0010 | .0003 | -.0044 |
| 2190 | .165 | 1889 | 16.22 | -.00 | 98760 | 1.5533 | .0043 | .5126 | -.0010 | .0001 | -.0039 |
| 2191 | .166 | 1905 | 18.22 | -.00 | 98736 | 1.6881 | -.0014 | .5917 | -.0015 | .0001 | -.0033 |
| 2192 | .165 | 1892 | 20.22 | -.00 | 98756 | 1.8209 | -.0069 | .6729 | -.0011 | .0001 | -.0032 |
| 2193 | .166 | 1905 | 21.87 | -.00 | 98746 | 1.9200 | -.0113 | .7364 | -.0010 | .0019 | .0082 |
| 2194 | .166 | 1909 | .02 | .00 | 98733 | .4297 | .0665 | -.1143 | -.0007 | .0003 | -.0071 |

TEST 995 RUN 131

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2180 | .0138 | 0.0000 | .9753 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0245 | .0078 |
| 2181 | -1.8717 | 0.0000 | .9755 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0244 | .0080 |
| 2182 | .0502 | 0.0000 | .9747 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0251 | .0079 |
| 2183 | 1.9638 | 0.0000 | .9759 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0077 |
| 2184 | 3.9396 | 0.0000 | .9754 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0244 | .0077 |
| 2185 | 5.9369 | 0.0000 | .9736 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0261 | .0077 |
| 2186 | 7.9559 | 0.0000 | .9762 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0077 |
| 2187 | 10.0278 | 0.0000 | .9750 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0244 | .0079 |
| 2188 | 12.1316 | 0.0000 | .9741 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0252 | .0082 |
| 2189 | 14.2115 | 0.0000 | .9735 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0255 | .0082 |
| 2190 | 16.2167 | 0.0000 | .9720 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0270 | .0084 |
| 2191 | 18.2181 | 0.0000 | .9712 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0272 | .0084 |
| 2192 | 20.2191 | 0.0000 | .9707 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0275 | .0085 |
| 2193 | 21.8653 | 0.0000 | .9693 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0283 | .0087 |
| 2194 | .0248 | 0.0000 | .9738 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0259 | .0079 |

TEST 995 RUN 131

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2180 | .0138 | .4403 | .0632 | -.1159 | .4403 | .0308 | -.1159 | .4403 | .0553 | -.1159 | 1.0000 |
| 2181 | -1.8717 | .2771 | .0576 | -.1810 | .2771 | .0252 | -.1810 | .2771 | .0496 | -.1810 | 1.0000 |
| 2182 | .0502 | .4293 | .0625 | -.1140 | .4293 | .0295 | -.1140 | .4293 | .0547 | -.1140 | 1.0000 |
| 2183 | 1.9638 | .5563 | .0748 | -.0386 | .5563 | .0430 | -.0386 | .5563 | .0671 | -.0386 | 1.0000 |
| 2184 | 3.9396 | .7046 | .0939 | .0412 | .7046 | .0618 | .0412 | .7046 | .0863 | .0412 | 1.0000 |
| 2185 | 5.9369 | .8452 | .1220 | .1189 | .8452 | .0883 | .1189 | .8452 | .1143 | .1189 | 1.0000 |
| 2186 | 7.9559 | .9890 | .1617 | .1949 | .9890 | .1305 | .1949 | .9890 | .1540 | .1949 | 1.0000 |
| 2187 | 10.0278 | 1.1297 | .2156 | .2766 | 1.1297 | .1833 | .2766 | 1.1297 | .2077 | .2766 | 1.0000 |
| 2188 | 12.1316 | 1.2552 | .2802 | .3620 | 1.2552 | .2468 | .3620 | 1.2552 | .2720 | .3620 | 1.0000 |
| 2189 | 14.2115 | 1.3736 | .3554 | .4389 | 1.3736 | .3217 | .4389 | 1.3736 | .3472 | .4389 | 1.0000 |
| 2190 | 16.2167 | 1.4903 | .4379 | .5126 | 1.4903 | .4026 | .5126 | 1.4903 | .4295 | .5126 | 1.0000 |
| 2191 | 18.2181 | 1.6039 | .5264 | .5917 | 1.6039 | .4987 | .5917 | 1.6039 | .5180 | .5917 | 1.0000 |
| 2192 | 20.2191 | 1.7110 | .6228 | .6729 | 1.7110 | .5868 | .6729 | 1.7110 | .6143 | .6729 | 1.0000 |
| 2193 | 21.8653 | 1.7861 | .7045 | .7364 | 1.7861 | .6675 | .7364 | 1.7861 | .6958 | .7364 | 1.0000 |
| 2194 | .0248 | .4297 | .0667 | -.1143 | .4297 | .0329 | -.1143 | .4297 | .0588 | -.1143 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 132

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2195 | .166 | 1915 | .02 | .00 | 98736 | .4237 | .0653 | -.1099 | -.0010 | .0003 | -.0081 |
| 2196 | .166 | 1912 | .06 | .00 | 98753 | 1.2463 | -1.5109 | -.5423 | -.0025 | .0052 | -.0303 |
| 2197 | .166 | 1912 | -1.81 | .00 | 98746 | 1.0821 | -1.5293 | -.6076 | -.0028 | .0059 | -.0393 |
| 2198 | .166 | 1912 | .10 | .00 | 98750 | 1.2543 | -1.5468 | -.5466 | -.0030 | .0048 | -.0300 |
| 2199 | .166 | 1912 | 2.02 | .00 | 98750 | 1.3935 | -1.4822 | -.4638 | -.0030 | .0050 | -.0300 |
| 2200 | .167 | 1919 | 3.98 | .00 | 98736 | 1.5518 | -1.5253 | -.3927 | -.0034 | .0041 | -.0292 |
| 2201 | .166 | 1909 | 5.98 | .00 | 98743 | 1.7264 | -1.5672 | -.3208 | -.0023 | .0036 | -.0292 |
| 2202 | .166 | 1899 | 8.00 | -.00 | 98750 | 1.9140 | -1.6020 | -.2547 | -.0022 | .0048 | -.0098 |
| 2203 | .166 | 1905 | 10.08 | .00 | 98740 | 2.0659 | -1.5166 | -.1619 | -.0026 | .0047 | -.0288 |
| 2204 | .165 | 1886 | 12.19 | .00 | 98753 | 2.2556 | -1.5597 | -.0890 | -.0013 | .0055 | -.0325 |
| 2205 | .166 | 1902 | 14.28 | .00 | 98733 | 2.4401 | -1.5734 | -.0203 | -.0019 | .0049 | -.0273 |
| 2206 | .166 | 1896 | 16.28 | .00 | 98739 | 2.6835 | -1.6138 | .0248 | .0001 | .0048 | -.0278 |
| 2207 | .165 | 1892 | 18.29 | .00 | 98743 | 2.9178 | -1.6328 | .0890 | -.0008 | .0051 | -.0297 |
| 2208 | .166 | 1899 | 20.30 | .00 | 98736 | 3.0943 | -1.5707 | .1812 | -.0021 | .0056 | -.0314 |
| 2209 | .166 | 1896 | 21.96 | .00 | 98736 | 3.2693 | -1.6837 | .2485 | -.0024 | .0057 | -.0356 |
| 2210 | .167 | 1919 | .08 | .00 | 98702 | 1.2537 | -1.5282 | -.5429 | -.0027 | .0046 | -.0302 |
| 2211 | .166 | 1909 | .02 | -.00 | 98716 | .4273 | .0492 | -.1170 | -.0014 | -.0000 | -.0057 |

TEST 995 RUN 132

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2195 | .0154 | 0.0000 | .9741 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0256 | .0079 |
| 2196 | .0590 | 28.6665 | 2.9323 | 25.4000 | 1.8429 | 1.6011 | .2624 | -1.9132 | .0219 |
| 2197 | -1.8147 | 28.8700 | 2.9557 | 25.4000 | 1.8612 | 1.6168 | .2653 | -1.9352 | .0217 |
| 2198 | .1012 | 29.0159 | 2.9668 | 25.4000 | 1.8745 | 1.6285 | .2670 | -1.9473 | .0221 |
| 2199 | 2.0168 | 28.2056 | 2.8869 | 25.4000 | 1.8036 | 1.5671 | .2569 | -1.8670 | .0221 |
| 2200 | 3.9757 | 28.6147 | 2.9287 | 25.4000 | 1.8340 | 1.5934 | .2613 | -1.8981 | .0227 |
| 2201 | 5.9755 | 28.8824 | 2.9548 | 25.4000 | 1.8671 | 1.6220 | .2661 | -1.9280 | .0233 |
| 2202 | 8.0026 | 29.0977 | 2.9771 | 25.4000 | 1.8969 | 1.6479 | .2703 | -1.9519 | .0241 |
| 2203 | 10.0792 | 28.1323 | 2.8820 | 25.4000 | 1.8051 | 1.5683 | .2570 | -1.8407 | .0245 |
| 2204 | 12.1918 | 28.3953 | 2.9078 | 25.4000 | 1.8472 | 1.6048 | .2631 | -1.8722 | .0256 |
| 2205 | 14.2792 | 28.6086 | 2.9263 | 25.4000 | 1.8508 | 1.6080 | .2635 | -1.8576 | .0263 |
| 2206 | 16.2841 | 28.8562 | 2.9559 | 25.4000 | 1.8807 | 1.6340 | .2679 | -1.8747 | .0271 |
| 2207 | 18.2942 | 28.8241 | 2.9379 | 25.4000 | 1.8774 | 1.6312 | .2674 | -1.8406 | .0275 |
| 2208 | 20.2953 | 28.0249 | 2.8707 | 25.4000 | 1.8020 | 1.5656 | .2566 | -1.7490 | .0274 |
| 2209 | 21.9595 | 28.2258 | 2.8893 | 25.4000 | 1.8227 | 1.5836 | .2596 | -1.7497 | .0283 |
| 2210 | .0760 | 28.8352 | 2.9473 | 25.4000 | 1.8542 | 1.6108 | .2642 | -1.9204 | .0220 |
| 2211 | .0245 | 0.0000 | .9686 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0312 | .0078 |

TEST 995 RUN 132

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2195 | .0154 | .4237 | .0654 | -.1099 | .4237 | .0319 | -.1099 | .4237 | .0575 | -.1099 | 1.8000 |
| 2196 | .0590 | 1.2479 | -1.5097 | -.5423 | 1.2460 | .3113 | -.3344 | 1.2478 | -1.4687 | -.5352 | 1.8000 |
| 2197 | -1.8147 | 1.0331 | -1.5628 | -.6076 | 1.0920 | .2757 | -.3976 | 1.0357 | -1.5034 | -.5984 | 1.8000 |
| 2198 | .1012 | 1.2570 | -1.5446 | -.5466 | 1.2537 | .3078 | -.3352 | 1.2569 | -1.4722 | -.5360 | 1.8000 |
| 2199 | 2.0168 | 1.4448 | -1.4323 | -.4638 | 1.3813 | .3482 | -.2603 | 1.4440 | -1.4307 | -.4611 | 1.8000 |
| 2200 | 3.9757 | 1.6538 | -1.4141 | -.3927 | 1.5267 | .3929 | -.1857 | 1.6501 | -1.3828 | -.3866 | 1.8000 |
| 2201 | 5.9755 | 1.8802 | -1.3790 | -.3208 | 1.6858 | .4547 | -.1182 | 1.8711 | -1.3157 | -.3110 | 1.8000 |
| 2202 | 8.0026 | 2.1184 | -1.3208 | -.2547 | 1.8543 | .5343 | -.0407 | 2.1021 | -1.2284 | -.2415 | 1.8000 |
| 2203 | 10.0792 | 2.2994 | -1.1317 | -.1619 | 1.9835 | .6210 | .0417 | 2.2950 | -1.1315 | -.1591 | 1.8000 |
| 2204 | 12.1918 | 2.5341 | -1.0482 | -.0890 | 2.1440 | .7317 | .1194 | 2.5199 | -1.0082 | -.0814 | 1.8000 |
| 2205 | 14.2792 | 2.7528 | -.9229 | -.0203 | 2.2963 | .8443 | .1865 | 2.7353 | -.8807 | -.0123 | 1.8000 |
| 2206 | 16.2841 | 3.0281 | -.7959 | .0248 | 2.5008 | .9823 | .2370 | 2.9999 | -.7263 | .0361 | 1.8000 |
| 2207 | 18.2942 | 3.2821 | -.6347 | .0890 | 2.6928 | 1.1203 | .3009 | 3.2515 | -.5697 | .1000 | 1.8000 |
| 2208 | 20.2953 | 3.4470 | -.3999 | .1812 | 2.8220 | 1.2629 | .3845 | 3.4394 | -.4066 | .1837 | 1.8000 |
| 2209 | 21.9595 | 3.6318 | -.2647 | .2485 | 2.9502 | 1.3974 | .4541 | 3.6158 | -.2535 | .2533 | 1.8000 |
| 2210 | .0760 | 1.2557 | -1.5265 | -.5429 | 1.2532 | .3057 | -.3337 | 1.2556 | -1.4743 | -.5346 | 1.8000 |
| 2211 | .0245 | .4272 | .0494 | -.1170 | .4272 | .0104 | -.1170 | .4272 | .0416 | -.1170 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 133

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2214 | .166 | 1899 | .02 | -.00 | 98739 | .2868 | .0646 | -.0644 | -.0024 | .0004 | .0003 |
| 2215 | .166 | 1896 | -1.87 | -.00 | 98746 | .1227 | .0565 | -.1273 | -.0020 | -.0002 | -.0025 |
| 2216 | .166 | 1909 | .05 | -.00 | 98729 | .2903 | .0541 | -.0626 | -.0016 | .0001 | -.0024 |
| 2217 | .166 | 1899 | 1.95 | -.00 | 98739 | .4253 | .0488 | .0072 | -.0021 | -.0000 | -.0008 |
| 2218 | .166 | 1905 | 3.92 | -.00 | 98733 | .5703 | .0411 | .0846 | -.0024 | -.0002 | -.0013 |
| 2219 | .166 | 1912 | 5.91 | -.00 | 98723 | .7214 | .0301 | .1626 | -.0016 | -.0006 | .0035 |
| 2220 | .165 | 1886 | 7.93 | -.00 | 98756 | .8807 | .0184 | .2394 | -.0014 | -.0005 | .0038 |
| 2221 | .166 | 1905 | 10.03 | -.00 | 98740 | 1.0316 | .0094 | .3175 | -.0017 | -.0001 | .0031 |
| 2222 | .166 | 1896 | 12.12 | -.00 | 98750 | 1.1823 | .0026 | .3927 | -.0018 | -.0002 | .0020 |
| 2223 | .166 | 1912 | 14.21 | -.00 | 98733 | 1.3316 | -.0017 | .4676 | -.0021 | .0001 | .0000 |
| 2224 | .166 | 1899 | 16.22 | -.00 | 98750 | 1.4594 | -.0074 | .5380 | -.0019 | -.0000 | .0017 |
| 2225 | .166 | 1902 | 18.24 | -.00 | 98746 | 1.5988 | -.0147 | .6137 | -.0015 | -.0001 | .0006 |
| 2226 | .166 | 1905 | 20.23 | -.00 | 98743 | 1.7459 | -.0202 | .6991 | -.0018 | .0005 | .0024 |
| 2227 | .166 | 1899 | 21.99 | -.00 | 98746 | 1.8622 | -.0277 | .7707 | -.0018 | .0007 | .0004 |
| 2228 | .166 | 1909 | .03 | -.00 | 98736 | .2904 | .0582 | -.0640 | -.0024 | -.0004 | -.0035 |

TEST 995 RUN 133

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2214 | .0156 | 0.0000 | .9753 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0246 | .0079 |
| 2215 | -1.8668 | 0.0000 | .9755 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0244 | .0080 |
| 2216 | .0485 | 0.0000 | .9751 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0247 | .0079 |
| 2217 | 1.9490 | 0.0000 | .9754 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0245 | .0079 |
| 2218 | 3.9211 | 0.0000 | .9755 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0243 | .0078 |
| 2219 | 5.9083 | 0.0000 | .9756 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0240 | .0078 |
| 2220 | 7.9306 | 0.0000 | .9762 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0079 |
| 2221 | 10.0338 | 0.0000 | .9753 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0242 | .0081 |
| 2222 | 12.1241 | 0.0000 | .9755 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0239 | .0083 |
| 2223 | 14.2131 | 0.0000 | .9741 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0248 | .0083 |
| 2224 | 16.2210 | 0.0000 | .9741 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0248 | .0084 |
| 2225 | 18.2404 | 0.0000 | .9737 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0248 | .0084 |
| 2226 | 20.2277 | 0.0000 | .9729 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0252 | .0085 |
| 2227 | 21.9868 | 0.0000 | .9719 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0260 | .0086 |
| 2228 | .0345 | 0.0000 | .9755 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0243 | .0079 |

TEST 995 RUN 133

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2214 | .0156 | .2868 | .0647 | -.0644 | .2868 | .0321 | -.0644 | .2868 | .0568 | -.0644 | 1.0000 |
| 2215 | -1.8668 | .1245 | .0525 | -.1273 | .1245 | .0201 | -.1273 | .1245 | .0445 | -.1273 | 1.0000 |
| 2216 | .0485 | .2902 | .0543 | -.0626 | .2902 | .0217 | -.0626 | .2902 | .0464 | -.0626 | 1.0000 |
| 2217 | 1.9490 | .4233 | .0632 | .0072 | .4233 | .0309 | .0072 | .4233 | .0554 | .0072 | 1.0000 |
| 2218 | 3.9211 | .5662 | .0800 | .0846 | .5662 | .0480 | .0846 | .5662 | .0722 | .0846 | 1.0000 |
| 2219 | 5.9083 | .7145 | .1042 | .1626 | .7145 | .0724 | .1626 | .7145 | .0964 | .1626 | 1.0000 |
| 2220 | 7.9306 | .8697 | .1397 | .2394 | .8697 | .1082 | .2394 | .8597 | .1318 | .2394 | 1.0000 |
| 2221 | 10.0338 | 1.0142 | .1890 | .3175 | 1.0142 | .1568 | .3175 | 1.0142 | .1810 | .3175 | 1.0000 |
| 2222 | 12.1241 | 1.1554 | .2589 | .3927 | 1.1554 | .2187 | .3927 | 1.1554 | .2426 | .3927 | 1.0000 |
| 2223 | 14.2131 | 1.2913 | .3253 | .4676 | 1.2913 | .2921 | .4676 | 1.2913 | .3169 | .4676 | 1.0000 |
| 2224 | 16.2210 | 1.4034 | .4006 | .5380 | 1.4034 | .3673 | .5380 | 1.4034 | .3921 | .5380 | 1.0000 |
| 2225 | 18.2404 | 1.5231 | .4865 | .6137 | 1.5231 | .4532 | .6137 | 1.5231 | .4781 | .6137 | 1.0000 |
| 2226 | 20.2277 | 1.6452 | .5847 | .6991 | 1.6452 | .5510 | .6991 | 1.6452 | .5762 | .6991 | 1.0000 |
| 2227 | 21.9868 | 1.7371 | .6715 | .7707 | 1.7371 | .6369 | .7707 | 1.7371 | .6628 | .7707 | 1.0000 |
| 2228 | .0345 | .2903 | .0583 | -.0640 | .2903 | .0262 | -.0640 | .2903 | .0504 | -.0640 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 134

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2229 | .166 | 1902 | .02 | -.00 | 98733 | .2807 | .0550 | -.0603 | -.0016 | -.0001 | -.0024 |
| 2230 | .166 | 1902 | .06 | .00 | 98712 | 1.0781 | -1.4879 | -.4769 | -.0042 | .0052 | -.0267 |
| 2231 | .166 | 1896 | -1.83 | .00 | 98712 | .9122 | -1.5305 | -.5480 | -.0042 | .0052 | -.0290 |
| 2232 | .166 | 1899 | .10 | .00 | 98709 | 1.0913 | -1.5521 | -.4876 | -.0035 | .0052 | -.0289 |
| 2233 | .166 | 1909 | 2.02 | .00 | 98702 | 1.2645 | -1.5666 | -.4216 | -.0035 | .0049 | -.0284 |
| 2234 | .166 | 1912 | 3.57 | .00 | 98699 | 1.3885 | -1.4855 | -.3291 | -.0042 | .0045 | -.0260 |
| 2235 | .166 | 1899 | 5.97 | .00 | 98716 | 1.5332 | -1.4612 | -.2426 | -.0026 | .0033 | -.0269 |
| 2236 | .166 | 1896 | 8.00 | .00 | 98719 | 1.6937 | -1.4504 | -.1650 | -.0019 | .0033 | -.0259 |
| 2237 | .166 | 1896 | 10.07 | .00 | 98719 | 1.8782 | -1.4288 | -.0792 | -.0021 | .0032 | -.0235 |
| 2238 | .167 | 1932 | 12.20 | .00 | 98679 | 2.1025 | -1.5273 | -.0305 | -.0010 | .0054 | -.0274 |
| 2239 | .167 | 1925 | 14.28 | .00 | 98689 | 2.2971 | -1.5615 | .0295 | -.0028 | .0052 | -.0268 |
| 2240 | .166 | 1909 | 16.28 | .00 | 98702 | 2.5405 | -1.6176 | .0696 | -.0013 | .0049 | -.0249 |
| 2241 | .166 | 1912 | 18.29 | .00 | 98702 | 2.7708 | -1.6524 | .1303 | -.0023 | .0046 | -.0267 |
| 2242 | .167 | 1915 | 20.32 | .00 | 98699 | 2.9548 | -1.6047 | .2232 | -.0029 | .0043 | -.0266 |
| 2243 | .166 | 1905 | 22.01 | .00 | 98706 | 3.1449 | -1.6048 | .2882 | -.0041 | .0058 | -.0293 |
| 2244 | .166 | 1896 | .07 | .00 | 98699 | 1.0898 | -1.5451 | -.4859 | -.0044 | .0050 | -.0287 |
| 2245 | .166 | 1899 | .03 | -.00 | 98699 | .2918 | .0418 | -.0655 | -.0031 | -.0002 | .0027 |

TEST 995 RUN 134

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2229 | .0224 | .0931 | .9756 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0242 | .0077 |
| 2230 | .0624 | 28.2172 | 2.8898 | 25.4000 | 1.8104 | 1.5728 | .2579 | -1.8792 | .0222 |
| 2231 | -1.8251 | 28.5962 | 2.9297 | 25.4000 | 1.8552 | 1.6119 | .2642 | -1.9255 | .0222 |
| 2232 | .1002 | 28.8679 | 2.9543 | 25.4000 | 1.8758 | 1.6296 | .2672 | -1.9476 | .0227 |
| 2233 | 2.0179 | 28.9968 | 2.9710 | 25.4000 | 1.8786 | 1.6321 | .2677 | -1.9526 | .0231 |
| 2234 | 3.9692 | 27.9569 | 2.8609 | 25.4000 | 1.7828 | 1.5490 | .2538 | -1.8370 | .0230 |
| 2235 | 5.9691 | 27.3767 | 2.8073 | 25.4000 | 1.7437 | 1.5150 | .2483 | -1.7914 | .0229 |
| 2236 | 7.9956 | 27.1182 | 2.7773 | 25.4000 | 1.7218 | 1.4959 | .2453 | -1.7571 | .0235 |
| 2237 | 10.0734 | 26.7349 | 2.7367 | 25.4000 | 1.6870 | 1.4656 | .2403 | -1.7072 | .0241 |
| 2238 | 12.1968 | 28.2872 | 2.9018 | 25.4000 | 1.7943 | 1.5588 | .2557 | -1.8203 | .0260 |
| 2239 | 14.2840 | 28.5211 | 2.9233 | 25.4000 | 1.8221 | 1.5831 | .2595 | -1.8315 | .0271 |
| 2240 | 16.2833 | 28.8568 | 2.9554 | 25.4000 | 1.8669 | 1.6219 | .2660 | -1.8606 | .0278 |
| 2241 | 18.2935 | 29.1075 | 2.9814 | 25.4000 | 1.8874 | 1.6399 | .2688 | -1.8617 | .0283 |
| 2242 | 20.3164 | 29.8466 | 2.9757 | 25.4000 | 1.9329 | 1.6794 | .2752 | -1.8303 | .0284 |
| 2243 | 22.0067 | 28.1762 | 2.8886 | 25.4000 | 1.8094 | 1.5720 | .2578 | -1.7389 | .0289 |
| 2244 | .0745 | 28.7118 | 2.9420 | 25.4000 | 1.8677 | 1.6226 | .2661 | -1.9385 | .0226 |
| 2245 | .0276 | 0.0000 | .9693 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0306 | .0079 |

TEST 995 RUN 134

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2229 | .0224 | .2807 | .0551 | -.0603 | .2807 | .0231 | -.0603 | .2807 | .0474 | -.0603 | 1.8000 |
| 2230 | .0624 | 1.0797 | -1.4867 | -.4769 | 1.0777 | .3015 | -.2726 | 1.0797 | -1.4785 | -.4735 | 1.8000 |
| 2231 | -1.8251 | .8630 | -1.5588 | -.5480 | .9221 | .2733 | -.3387 | .8654 | -1.5058 | -.5395 | 1.8000 |
| 2232 | .1002 | 1.0940 | -1.5502 | -.4876 | 1.0907 | .3029 | -.2759 | 1.0938 | -1.4771 | -.4768 | 1.8000 |
| 2233 | 2.0179 | 1.3189 | -1.5211 | -.4216 | 1.2527 | .3332 | -.2097 | 1.3154 | -1.4457 | -.4105 | 1.8000 |
| 2234 | 3.9692 | 1.4880 | -1.3859 | -.3291 | 1.3646 | .3697 | -.1280 | 1.4878 | -1.4061 | -.3288 | 1.8000 |
| 2235 | 5.9691 | 1.6768 | -1.2939 | -.2426 | 1.4955 | .4175 | -.0459 | 1.6806 | -1.3529 | -.2467 | 1.8000 |
| 2236 | 7.9956 | 1.8790 | -1.2087 | -.1650 | 1.6395 | .4809 | .0293 | 1.8871 | -1.2818 | -.1715 | 1.8000 |
| 2237 | 10.0734 | 2.0992 | -1.0783 | -.0792 | 1.8041 | .5586 | .1111 | 2.1154 | -1.1939 | -.0897 | 1.8000 |
| 2238 | 12.1968 | 2.3777 | -1.0487 | -.0305 | 1.9986 | .6791 | .1719 | 2.3747 | -1.0608 | -.0289 | 1.8000 |
| 2239 | 14.2840 | 2.6114 | -.9464 | .0295 | 2.1618 | .7922 | .2351 | 2.6010 | -.9327 | .0343 | 1.8000 |
| 2240 | 16.2833 | 2.8921 | -.8404 | .0696 | 2.3687 | .9237 | .2802 | 2.8678 | -.7849 | .0794 | 1.8000 |
| 2241 | 18.2935 | 3.1494 | -.6992 | .1303 | 2.5570 | 1.0645 | .3432 | 3.1157 | -.6256 | .1424 | 1.8000 |
| 2242 | 20.3164 | 3.3282 | -.4790 | .2232 | 2.6571 | 1.3053 | .4413 | 3.2751 | -.3639 | .2405 | 1.8000 |
| 2243 | 22.0067 | 3.5171 | -.3094 | .2882 | 2.8391 | 1.3392 | .4923 | 3.5060 | -.3111 | .2915 | 1.8000 |
| 2244 | .0745 | 1.0918 | -1.5437 | -.4859 | 1.0894 | .3014 | -.2752 | 1.0917 | -1.4786 | -.4760 | 1.8000 |
| 2245 | .0276 | .2918 | .0419 | -.0655 | .2918 | .0034 | -.0655 | .2918 | .0340 | -.0655 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 135

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2257 | .166 | 1912 | .01 | -.00 | 98682 | .2899 | .0575 | -.0748 | -.0014 | .0000 | .0043 |
| 2258 | .166 | 1899 | -1.87 | -.00 | 98692 | .1648 | .0612 | -.1095 | -.0020 | .0002 | .0009 |
| 2259 | .166 | 1912 | .06 | -.00 | 98682 | .2911 | .0574 | -.0738 | -.0014 | .0001 | .0031 |
| 2260 | .167 | 1919 | 1.95 | -.00 | 98675 | .4157 | .0532 | -.0401 | -.0017 | .0001 | .0056 |
| 2261 | .166 | 1909 | 3.90 | -.00 | 98685 | .5489 | .0427 | -.0043 | -.0020 | -.0003 | .0044 |
| 2262 | .165 | 1892 | 5.90 | -.00 | 98702 | .6812 | .0290 | .0353 | -.0010 | -.0007 | .0052 |
| 2263 | .165 | 1892 | 7.92 | -.00 | 98702 | .8103 | .0188 | .0745 | -.0015 | -.0001 | .0039 |
| 2264 | .166 | 1899 | 9.99 | -.00 | 98695 | .9365 | .0136 | .1108 | -.0018 | -.0002 | .0052 |
| 2265 | .166 | 1896 | 12.09 | -.00 | 98695 | 1.0456 | .0131 | .1511 | -.0020 | .0002 | .0055 |
| 2266 | .166 | 1902 | 14.19 | -.00 | 98692 | 1.1370 | .0153 | .2020 | -.0014 | .0003 | .0056 |
| 2267 | .166 | 1899 | 16.17 | -.00 | 98689 | 1.2304 | .0399 | .2090 | -.0008 | -.0004 | .0050 |
| 2268 | .166 | 1902 | 18.17 | -.00 | 98692 | 1.3679 | .0419 | .2423 | -.0013 | .0000 | .0052 |
| 2269 | .166 | 1896 | 20.16 | -.00 | 98699 | 1.4979 | .0381 | .2893 | -.0003 | .0001 | .0062 |
| 2270 | .166 | 1899 | 21.91 | -.00 | 98695 | 1.6151 | .0296 | .3297 | .0011 | .0007 | .0047 |
| 2271 | .165 | 1889 | .01 | .00 | 98699 | .2935 | .0635 | -.0745 | -.0010 | .0002 | -.0005 |

TEST 995 RUN 135

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2257 | .0128 | 0.0000 | .9753 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0245 | .0079 |
| 2258 | -1.8713 | 0.0000 | .9735 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0264 | .0081 |
| 2259 | .0594 | 0.0000 | .9754 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0243 | .0079 |
| 2260 | 1.9499 | 0.0000 | .9757 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0239 | .0077 |
| 2261 | 3.9001 | 0.0000 | .9757 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0075 |
| 2262 | 5.8987 | 0.0000 | .9747 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0252 | .0075 |
| 2263 | 7.9186 | 0.0000 | .9773 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0225 | .0074 |
| 2264 | 9.9912 | 0.0000 | .9750 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0245 | .0074 |
| 2265 | 12.0937 | 0.0000 | .9740 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0254 | .0074 |
| 2266 | 14.1907 | 0.0000 | .9727 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0263 | .0073 |
| 2267 | 16.1713 | 0.0000 | .9673 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0313 | .0089 |
| 2268 | 18.1716 | 0.0000 | .9649 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0332 | .0095 |
| 2269 | 20.1648 | 0.0000 | .9636 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0341 | .0096 |
| 2270 | 21.9076 | 0.0000 | .9624 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0348 | .0096 |
| 2271 | .0268 | 0.0000 | .9762 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0079 |

TEST 995 RUN 135

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2257 | .0128 | .2899 | .0576 | -.0748 | .2899 | .0252 | -.0748 | .2899 | .0497 | -.0748 | 1.0000 |
| 2258 | -1.8713 | .1667 | .0358 | -.1095 | .1667 | .0213 | -.1095 | .1667 | .0477 | -.1095 | 1.0000 |
| 2259 | .0594 | .2911 | .0577 | -.0738 | .2911 | .0255 | -.0738 | .2911 | .0498 | -.0738 | 1.0000 |
| 2260 | 1.9499 | .4136 | .0673 | -.0401 | .4136 | .0357 | -.0401 | .4136 | .0596 | -.0401 | 1.0000 |
| 2261 | 3.9001 | .5448 | .0799 | -.0043 | .5448 | .0483 | -.0043 | .5448 | .0724 | -.0043 | 1.0000 |
| 2262 | 5.8987 | .6746 | .0988 | .0353 | .6746 | .0661 | .0353 | .6746 | .0913 | .0353 | 1.0000 |
| 2263 | 7.9186 | .8000 | .1302 | .0745 | .8000 | .1004 | .0745 | .8000 | .1229 | .0745 | 1.0000 |
| 2264 | 9.9912 | .9200 | .1758 | .1108 | .9200 | .1440 | .1108 | .9200 | .1685 | .1108 | 1.0000 |
| 2265 | 12.0937 | 1.0196 | .2319 | .1511 | 1.0196 | .1998 | .1511 | 1.0196 | .2244 | .1511 | 1.0000 |
| 2266 | 14.1907 | 1.0985 | .2936 | .2020 | 1.0985 | .2599 | .2020 | 1.0985 | .2862 | .2020 | 1.0000 |
| 2267 | 16.1713 | 1.1706 | .3810 | .2090 | 1.1706 | .3408 | .2090 | 1.1706 | .3721 | .2090 | 1.0000 |
| 2268 | 18.1716 | 1.2866 | .4664 | .2423 | 1.2866 | .4238 | .2423 | 1.2866 | .4569 | .2423 | 1.0000 |
| 2269 | 20.1648 | 1.3929 | .5521 | .2893 | 1.3929 | .5084 | .2893 | 1.3929 | .5425 | .2893 | 1.0000 |
| 2270 | 21.9076 | 1.4874 | .6301 | .3297 | 1.4874 | .5857 | .3297 | 1.4874 | .6205 | .3297 | 1.0000 |
| 2271 | .0268 | .2935 | .0636 | -.0745 | .2935 | .0319 | -.0745 | .2935 | .0557 | -.0745 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 136

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2272 | .166 | 1912 | .02 | -.00 | 98672 | .2935 | .0630 | -.0743 | -.0011 | .0002 | .0018 |
| 2273 | .166 | 1899 | .05 | .00 | 98682 | 1.0739 | -1.4564 | -.5002 | -.0029 | -.0018 | -.0032 |
| 2274 | .166 | 1899 | -1.82 | .00 | 98682 | .9318 | -1.4627 | -.5327 | -.0034 | -.0019 | -.0067 |
| 2275 | .165 | 1889 | .09 | -.00 | 98699 | 1.0841 | -1.4830 | -.5051 | -.0026 | -.0004 | .0114 |
| 2276 | .166 | 1909 | 1.99 | .00 | 98679 | 1.1701 | -1.3756 | -.4366 | -.0017 | -.0027 | -.0068 |
| 2277 | .166 | 1899 | 3.95 | .00 | 98692 | 1.3275 | -1.4108 | -.4145 | -.0020 | -.0025 | -.0054 |
| 2278 | .166 | 1905 | 5.94 | .00 | 98685 | 1.4802 | -1.4302 | -.3810 | -.0020 | -.0044 | -.0107 |
| 2279 | .166 | 1896 | 7.98 | .00 | 98695 | 1.6502 | -1.4556 | -.3595 | -.0009 | -.0033 | -.0137 |
| 2280 | .166 | 1896 | 10.06 | .00 | 98695 | 1.8403 | -1.4725 | -.3450 | -.0017 | -.0022 | -.0061 |
| 2281 | .167 | 1915 | 12.16 | .00 | 98679 | 2.0327 | -1.4788 | -.3166 | -.0024 | -.0019 | -.0057 |
| 2282 | .166 | 1902 | 14.25 | .00 | 98685 | 2.2499 | -1.5084 | -.2921 | -.0002 | -.0017 | -.0029 |
| 2283 | .165 | 1892 | 16.24 | .00 | 98699 | 2.4746 | -1.5426 | -.2731 | .0006 | -.0015 | -.0028 |
| 2284 | .166 | 1905 | 18.26 | -.00 | 98689 | 2.6723 | -1.5600 | -.2357 | -.0006 | -.0001 | .0099 |
| 2285 | .166 | 1902 | 20.27 | .00 | 98692 | 2.9038 | -1.5929 | -.2063 | -.0034 | -.0007 | -.0116 |
| 2286 | .167 | 1922 | 21.96 | .00 | 98679 | 3.0550 | -1.6060 | -.1639 | -.0025 | -.0004 | -.0056 |
| 2287 | .168 | 1955 | .07 | .00 | 98642 | 1.0703 | -1.4702 | -.4968 | -.0031 | -.0020 | -.0073 |
| 2288 | .166 | 1909 | .02 | -.00 | 98692 | .3010 | .0501 | -.0769 | -.0014 | -.0002 | .0030 |

TEST 995 RUN 136

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2272 | .0177 | 1.3867 | .9754 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0243 | .0079 |
| 2273 | .0534 | 27.9066 | 2.8291 | 25.4000 | 1.7918 | 1.5586 | .2533 | -1.8224 | .0209 |
| 2274 | -1.8200 | 27.9982 | 2.8330 | 25.4000 | 1.7985 | 1.5644 | .2543 | -1.8253 | .0204 |
| 2275 | .0861 | 28.0954 | 2.8456 | 25.4000 | 1.8186 | 1.5819 | .2572 | -1.8487 | .0211 |
| 2276 | 1.9909 | 26.8408 | 2.7184 | 25.4000 | 1.6874 | 1.4678 | .2385 | -1.7021 | .0203 |
| 2277 | 3.9503 | 27.0636 | 2.7413 | 25.4000 | 1.7158 | 1.4924 | .2427 | -1.7309 | .0206 |
| 2278 | 5.9411 | 27.1991 | 2.7556 | 25.4000 | 1.7233 | 1.4990 | .2436 | -1.7338 | .0210 |
| 2279 | 7.9788 | 27.3708 | 2.7738 | 25.4000 | 1.7488 | 1.5212 | .2472 | -1.7535 | .0213 |
| 2280 | 10.0578 | 27.5456 | 2.7899 | 25.4000 | 1.7646 | 1.5350 | .2494 | -1.7592 | .0214 |
| 2281 | 12.1565 | 27.6641 | 2.8032 | 25.4000 | 1.7575 | 1.5287 | .2485 | -1.7411 | .0216 |
| 2282 | 14.2482 | 27.7427 | 2.8062 | 25.4000 | 1.7761 | 1.5450 | .2511 | -1.7412 | .0219 |
| 2283 | 16.2351 | 27.8288 | 2.8216 | 25.4000 | 1.7945 | 1.5609 | .2537 | -1.7489 | .0215 |
| 2284 | 18.2574 | 27.9709 | 2.8310 | 25.4000 | 1.7942 | 1.5607 | .2537 | -1.7265 | .0207 |
| 2285 | 20.2652 | 28.0973 | 2.8448 | 25.4000 | 1.8093 | 1.5739 | .2558 | -1.7214 | .0210 |
| 2286 | 21.9637 | 28.2686 | 2.8638 | 25.4000 | 1.8069 | 1.5718 | .2554 | -1.7014 | .0224 |
| 2287 | .0736 | 28.5639 | 2.8872 | 25.4000 | 1.8011 | 1.5667 | .2547 | -1.8255 | .0212 |
| 2288 | .0181 | 0.0000 | .9691 | 25.4000 | 0.0000 | 0.0000 | 0.0000 | .0306 | .0079 |

TEST 995 RUN 136

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2272 | .0177 | .2935 | .0631 | -.0743 | .2935 | .0308 | -.0743 | .2935 | .0552 | -.0743 | 1.0000 |
| 2273 | .0534 | 1.0753 | -1.4554 | -.5002 | 1.0736 | .3155 | -.2980 | 1.0752 | -1.4645 | -.4988 | 1.8000 |
| 2274 | -1.8200 | .8849 | -1.4915 | -.5327 | .9420 | .2856 | -.3298 | .8855 | -1.4935 | -.5306 | 1.8000 |
| 2275 | .0861 | 1.0863 | -1.4814 | -.5051 | 1.0836 | .3161 | -.3000 | 1.0863 | -1.4639 | -.5008 | 1.8000 |
| 2276 | 1.9909 | 1.2172 | -1.3342 | -.4366 | 1.1586 | .3320 | -.2462 | 1.2204 | -1.4470 | -.4470 | 1.8000 |
| 2277 | 3.9503 | 1.4215 | -1.3160 | -.4145 | 1.3033 | .3752 | -.2209 | 1.4259 | -1.4006 | -.4217 | 1.8000 |
| 2278 | 5.9411 | 1.6202 | -1.2693 | -.3810 | 1.4419 | .4237 | -.1866 | 1.6261 | -1.3467 | -.3874 | 1.8000 |
| 2279 | 7.9788 | 1.8363 | -1.2124 | -.3595 | 1.5936 | .4981 | -.1622 | 1.8406 | -1.2647 | -.3630 | 1.8000 |
| 2280 | 10.0578 | 2.0692 | -1.1284 | -.3450 | 1.7610 | .5877 | -.1459 | 2.0719 | -1.1650 | -.3467 | 1.8000 |
| 2281 | 12.1565 | 2.2985 | -1.0175 | -.3166 | 1.9284 | .6790 | -.1183 | 2.3033 | -1.0611 | -.3191 | 1.8000 |
| 2282 | 14.2482 | 2.5520 | -.9082 | -.2921 | 2.1148 | .7914 | -.0917 | 2.5529 | -.9339 | -.2925 | 1.8000 |
| 2283 | 16.2351 | 2.8072 | -.7892 | -.2731 | 2.3055 | .9122 | -.0706 | 2.8032 | -.7968 | -.2714 | 1.8000 |
| 2284 | 18.2574 | 3.0265 | -.6443 | -.2357 | 2.4644 | 1.0388 | -.0333 | 3.0221 | -.6516 | -.2341 | 1.8000 |
| 2285 | 20.2652 | 3.2758 | -.4885 | -.2063 | 2.6491 | 1.1878 | -.0021 | 3.2656 | -.4820 | -.2030 | 1.8000 |
| 2286 | 21.9637 | 3.4340 | -.3468 | -.1639 | 2.7582 | 1.3065 | .0399 | 3.4239 | -.3443 | -.1609 | 1.8000 |
| 2287 | .0736 | 1.0722 | -1.4688 | -.4968 | 1.0699 | .3111 | -.2936 | 1.0722 | -1.4689 | -.4944 | 1.8000 |
| 2288 | .0181 | .3010 | .0502 | -.0769 | .3010 | .0117 | -.0769 | .3010 | .0423 | -.0769 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 137

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2300 | .166 | 1905 | .02 | -.00 | 98709 | .4180 | .0611 | -.1013 | -.0011 | -.0000 | .0025 |
| 2301 | .166 | 1905 | -1.86 | -.00 | 98706 | .2827 | .0684 | -.1757 | -.0013 | .0001 | .0015 |
| 2302 | .167 | 1915 | .05 | -.00 | 98692 | .4192 | .0606 | -.1029 | -.0010 | .0000 | .0048 |
| 2303 | .166 | 1902 | 1.97 | -.00 | 98712 | .5621 | .0536 | -.0217 | -.0010 | .0000 | .0053 |
| 2304 | .165 | 1892 | 3.92 | -.00 | 98726 | .7072 | .0444 | .0650 | -.0018 | -.0001 | -.0009 |
| 2305 | .165 | 1892 | 5.92 | -.00 | 98719 | .8566 | .0325 | .1551 | -.0007 | -.0008 | .0025 |
| 2306 | .166 | 1902 | 7.96 | -.00 | 98712 | 1.0234 | .0209 | .2389 | -.0002 | -.0005 | .0036 |
| 2307 | .166 | 1912 | 10.03 | -.00 | 98702 | 1.1887 | .0109 | .3270 | -.0006 | -.0005 | .0056 |
| 2308 | .165 | 1892 | 12.13 | -.00 | 98722 | 1.3530 | .0037 | .4231 | -.0008 | -.0001 | .0031 |
| 2309 | .166 | 1899 | 14.24 | -.00 | 98716 | 1.5185 | -.0060 | .5161 | .0001 | .0002 | .0025 |
| 2310 | .166 | 1899 | 16.20 | -.00 | 98709 | 1.6550 | -.0100 | .5907 | .0002 | .0002 | .0053 |
| 2311 | .165 | 1889 | 18.23 | -.00 | 98716 | 1.7937 | -.0156 | .6722 | -.0001 | -.0001 | .0011 |
| 2312 | .166 | 1905 | 20.23 | -.00 | 98709 | 1.9358 | -.0233 | .7628 | .0004 | .0005 | .0031 |
| 2313 | .165 | 1886 | 21.90 | -.00 | 98722 | 2.0442 | -.0290 | .8386 | .0006 | .0007 | .0035 |
| 2314 | .166 | 1909 | .03 | -.00 | 98706 | .4254 | .0652 | -.1019 | -.0005 | .0005 | .0059 |

TEST 995 RUN 137

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2300 | .0223 | 0.0000 | .9779 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0214 | .0076 |
| 2301 | -1.8631 | 0.0000 | .9779 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0214 | .0077 |
| 2302 | .0525 | 0.0000 | .9782 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0209 | .0076 |
| 2303 | 1.9729 | 0.0000 | .9787 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0075 |
| 2304 | 3.9244 | 0.0000 | .9784 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0209 | .0075 |
| 2305 | 5.9237 | 0.0000 | .9785 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0208 | .0075 |
| 2306 | 7.9573 | 0.0000 | .9785 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0076 |
| 2307 | 10.0254 | 0.0000 | .9783 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0205 | .0077 |
| 2308 | 12.1323 | 0.0000 | .9781 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0208 | .0078 |
| 2309 | 14.2387 | 0.0000 | .9775 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0211 | .0079 |
| 2310 | 16.2040 | 0.0000 | .9781 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0204 | .0079 |
| 2311 | 18.2296 | 0.0000 | .9775 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0208 | .0080 |
| 2312 | 20.2327 | 0.0000 | .9760 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0218 | .0081 |
| 2313 | 21.9038 | 0.0000 | .9760 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0083 |
| 2314 | .0297 | 0.0000 | .9785 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0208 | .0075 |

TEST 995 RUN 137

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2300 | .0223 | .4180 | .0613 | -.1013 | .4180 | .0323 | -.1013 | .4180 | .0537 | -.1013 | 1.0000 |
| 2301 | -1.8631 | .2848 | .0591 | -.1757 | .2848 | .0308 | -.1757 | .2848 | .0514 | -.1757 | 1.0000 |
| 2302 | .0525 | .4192 | .0610 | -.1029 | .4192 | .0324 | -.1029 | .4192 | .0533 | -.1029 | 1.0000 |
| 2303 | 1.9729 | .5599 | .0729 | -.0217 | .5599 | .0448 | -.0217 | .5599 | .0654 | -.0217 | 1.0000 |
| 2304 | 3.9244 | .7025 | .0927 | .0650 | .7025 | .0642 | .0650 | .7025 | .0851 | .0650 | 1.0000 |
| 2305 | 5.9237 | .8487 | .1207 | .1551 | .8487 | .0923 | .1551 | .8487 | .1132 | .1551 | 1.0000 |
| 2306 | 7.9573 | 1.0106 | .1624 | .2389 | 1.0106 | .1342 | .2389 | 1.0106 | .1548 | .2389 | 1.0000 |
| 2307 | 10.0254 | 1.1686 | .2177 | .3270 | 1.1686 | .1895 | .3270 | 1.1686 | .2100 | .3270 | 1.0000 |
| 2308 | 12.1323 | 1.3221 | .2880 | .4231 | 1.3221 | .2593 | .4231 | 1.3221 | .2801 | .4231 | 1.0000 |
| 2309 | 14.2387 | 1.4734 | .3677 | .5161 | 1.4734 | .3386 | .5161 | 1.4734 | .3597 | .5161 | 1.0000 |
| 2310 | 16.2040 | 1.5921 | .4523 | .5907 | 1.5921 | .4239 | .5907 | 1.5921 | .4443 | .5907 | 1.0000 |
| 2311 | 18.2296 | 1.7086 | .5463 | .6722 | 1.7086 | .5175 | .6722 | 1.7086 | .5383 | .6722 | 1.0000 |
| 2312 | 20.2327 | 1.8244 | .6477 | .7628 | 1.8244 | .6178 | .7628 | 1.8244 | .6396 | .7628 | 1.0000 |
| 2313 | 21.9038 | 1.9074 | .7357 | .8386 | 1.9074 | .7057 | .8386 | 1.9074 | .7274 | .8386 | 1.0000 |
| 2314 | .0297 | .4253 | .0654 | -.1019 | .4253 | .0372 | -.1019 | .4253 | .0579 | -.1019 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 136

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2315 | .166 | 1905 | .02 | .00 | 98716 | .4230 | .0630 | -.0985 | -.0009 | .0004 | -.0009 |
| 2316 | .167 | 1922 | .06 | -.00 | 98703 | 1.1516 | -1.5528 | -.5380 | .0004 | -.0024 | .0121 |
| 2317 | .166 | 1912 | -1.83 | -.00 | 98716 | 1.0023 | -1.5495 | -.6072 | .0004 | -.0024 | .0100 |
| 2318 | .166 | 1905 | .10 | -.00 | 98719 | 1.1543 | -1.5661 | -.5403 | .0001 | -.0026 | .0123 |
| 2319 | .166 | 1909 | 2.01 | -.00 | 98723 | 1.3116 | -1.5845 | -.4646 | .0003 | -.0032 | .0113 |
| 2320 | .166 | 1915 | 3.96 | -.00 | 98716 | 1.4723 | -1.5954 | -.3838 | .0006 | -.0036 | .0115 |
| 2321 | .167 | 1919 | 5.97 | -.00 | 98713 | 1.6506 | -1.6092 | -.2981 | .0006 | -.0043 | .0106 |
| 2322 | .166 | 1909 | 8.02 | -.00 | 98726 | 1.8421 | -1.6366 | -.2207 | .0009 | -.0043 | .0118 |
| 2323 | .166 | 1896 | 10.08 | -.00 | 98729 | 2.0148 | -1.6676 | -.1422 | .0000 | -.0049 | .0150 |
| 2324 | .166 | 1896 | 12.19 | -.00 | 98736 | 2.1883 | -1.6751 | -.0469 | .0011 | -.0044 | .0121 |
| 2325 | .166 | 1915 | 14.29 | -.00 | 98709 | 2.3534 | -1.6713 | .0475 | .0020 | -.0044 | .0125 |
| 2326 | .166 | 1909 | 16.28 | -.00 | 98719 | 2.5150 | -1.6888 | .1187 | .0007 | -.0049 | .0156 |
| 2327 | .165 | 1876 | 18.27 | -.00 | 98746 | 2.6911 | -1.7263 | .1895 | .0009 | -.0049 | .0151 |
| 2328 | .165 | 1889 | 20.28 | -.00 | 98739 | 2.8546 | -1.7307 | .2737 | .0005 | -.0050 | .0159 |
| 2329 | .167 | 1919 | 21.94 | -.00 | 98709 | 2.9741 | -1.7215 | .3468 | .0017 | -.0050 | .0157 |
| 2330 | .166 | 1905 | .08 | .00 | 98723 | 1.2141 | -1.6704 | -.5948 | .0001 | -.0039 | .0109 |
| 2331 | .166 | 1905 | .00 | -.00 | 98723 | .4217 | .0500 | -.1015 | -.0009 | .0001 | .0037 |

TEST 995 RUN 136

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2315 | .0205 | 0.0000 | .9786 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0207 | .0076 |
| 2316 | .0555 | 27.8786 | 2.7662 | 20.6775 | 1.7303 | 1.7498 | 0.0000 | -1.6909 | .0141 |
| 2317 | -1.8281 | 27.7481 | 2.7523 | 20.7829 | 1.7296 | 1.7490 | 0.0000 | -1.6857 | .0137 |
| 2318 | .0969 | 27.8273 | 2.7664 | 20.6755 | 1.7457 | 1.7653 | 0.0000 | -1.7061 | .0141 |
| 2319 | 2.0109 | 27.9280 | 2.7689 | 20.6572 | 1.7496 | 1.7692 | 0.0000 | -1.7045 | .0143 |
| 2320 | 3.9587 | 28.0393 | 2.7750 | 20.6111 | 1.7534 | 1.7731 | 0.0000 | -1.7014 | .0147 |
| 2321 | 5.9714 | 28.0829 | 2.7866 | 20.5231 | 1.7562 | 1.7760 | 0.0000 | -1.7043 | .0154 |
| 2322 | 8.0169 | 28.1623 | 2.7916 | 20.4851 | 1.7727 | 1.7926 | 0.0000 | -1.7107 | .0162 |
| 2323 | 10.0754 | 28.2892 | 2.8078 | 20.3623 | 1.7985 | 1.8187 | 0.0000 | -1.7283 | .0172 |
| 2324 | 12.1870 | 28.3650 | 2.8145 | 20.3121 | 1.8057 | 1.8260 | 0.0000 | -1.7223 | .0185 |
| 2325 | 14.2881 | 28.4787 | 2.8283 | 20.2073 | 1.7991 | 1.8193 | 0.0000 | -1.7022 | .0200 |
| 2326 | 16.2784 | 28.5888 | 2.8391 | 20.1257 | 1.8141 | 1.8344 | 0.0000 | -1.7021 | .0214 |
| 2327 | 18.2737 | 28.6221 | 2.8450 | 20.0809 | 1.8516 | 1.8724 | 0.0000 | -1.7194 | .0229 |
| 2328 | 20.2836 | 28.7468 | 2.8573 | 19.9880 | 1.8497 | 1.8704 | 0.0000 | -1.6977 | .0241 |
| 2329 | 21.9435 | 28.8982 | 2.8677 | 19.9089 | 1.8344 | 1.8550 | 0.0000 | -1.6616 | .0249 |
| 2330 | .0753 | 29.1158 | 2.8921 | 19.7245 | 1.8672 | 1.8882 | 0.0000 | -1.8276 | .0135 |
| 2331 | .0017 | 0.0000 | .9699 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0291 | .0077 |

TEST 995 RUN 136

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2315 | .0205 | .4230 | .0632 | -.0985 | .4230 | .0348 | -.0985 | .4230 | .0555 | -.0985 | 1.0000 |
| 2316 | .0555 | 1.1531 | -1.5517 | -.5380 | 1.1514 | .1645 | -.3428 | 1.1531 | -1.6155 | -.5436 | 1.8000 |
| 2317 | -1.8281 | .9524 | -1.5806 | -.6072 | 1.0075 | .1344 | -.4121 | .9507 | -1.6447 | -.6129 | 1.8000 |
| 2318 | .0969 | 1.1569 | -1.5641 | -.5403 | 1.1540 | .1675 | -.3434 | 1.1570 | -1.6125 | -.5442 | 1.8000 |
| 2319 | 2.0109 | 1.3664 | -1.5375 | -.4646 | 1.3050 | .1967 | -.2672 | 1.3674 | -1.5822 | -.4680 | 1.8000 |
| 2320 | 3.9587 | 1.5789 | -1.4900 | -.3838 | 1.4578 | .2446 | -.1860 | 1.5807 | -1.5312 | -.3868 | 1.8000 |
| 2321 | 5.9714 | 1.8891 | -1.4287 | -.2981 | 1.6264 | .3026 | -.1000 | 1.8115 | -1.4678 | -.3008 | 1.8000 |
| 2322 | 8.0169 | 2.0524 | -1.3637 | -.2207 | 1.8051 | .3755 | -.0207 | 2.0534 | -1.3871 | -.2215 | 1.8000 |
| 2323 | 10.0754 | 2.2755 | -1.2894 | -.1422 | 1.9608 | .4642 | .0607 | 2.2722 | -1.2883 | -.1401 | 1.8000 |
| 2324 | 12.1870 | 2.4926 | -1.1754 | -.0469 | 2.1114 | .5711 | .1568 | 2.4871 | -1.1688 | -.0440 | 1.8000 |
| 2325 | 14.2881 | 2.6930 | -1.0388 | .0475 | 2.2498 | .6847 | .2505 | 2.6883 | -1.0403 | .0497 | 1.8000 |
| 2326 | 16.2784 | 2.8876 | -.9162 | .1187 | 2.3791 | .8038 | .3234 | 2.8781 | -.9048 | .1226 | 1.8000 |
| 2327 | 18.2737 | 3.0967 | -.7954 | .1895 | 2.5161 | .9399 | .3983 | 3.0743 | -.7504 | .1975 | 1.8000 |
| 2328 | 20.2836 | 3.2775 | -.6337 | .2737 | 2.6363 | 1.0771 | .4824 | 3.2534 | -.5925 | .2816 | 1.8000 |
| 2329 | 21.9435 | 3.4019 | -.4854 | .3468 | 2.7164 | 1.1912 | .5537 | 3.3816 | -.4598 | .3529 | 1.8000 |
| 2330 | .0753 | 1.2163 | -1.6688 | -.5948 | 1.2139 | .1849 | -.3841 | 1.2162 | -1.5951 | -.5849 | 1.8000 |
| 2331 | .0017 | .4217 | .0500 | -.1015 | .4217 | .0133 | -.1015 | .4217 | .0424 | -.1015 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 139

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2334 | .165 | 1886 | .01 | -.00 | 98756 | .3052 | .0847 | -.1031 | -.0008 | .0005 | .0025 |
| 2335 | .165 | 1892 | -1.86 | -.00 | 98743 | .1564 | .0979 | -.1691 | -.0005 | .0005 | .0026 |
| 2336 | .166 | 1902 | .04 | -.00 | 98740 | .3168 | .0839 | -.1036 | -.0004 | .0003 | .0034 |
| 2337 | .166 | 1896 | 1.96 | -.00 | 98746 | .4802 | .0689 | -.0354 | -.0005 | .0004 | .0038 |
| 2338 | .165 | 1892 | 3.92 | -.00 | 98756 | .6539 | .0535 | .0449 | -.0015 | .0001 | .0069 |
| 2339 | .166 | 1905 | 5.92 | -.00 | 98743 | .8154 | .0320 | .1276 | -.0015 | -.0002 | .0025 |
| 2340 | .166 | 1899 | 7.94 | -.00 | 98743 | .9650 | .0117 | .2156 | -.0016 | -.0000 | .0028 |
| 2341 | .166 | 1899 | 10.02 | -.00 | 98743 | 1.1173 | -.0107 | .3034 | -.0020 | -.0003 | .0012 |
| 2342 | .166 | 1905 | 12.13 | -.00 | 98729 | 1.2666 | -.0369 | .3941 | -.0018 | -.0004 | .0043 |
| 2343 | .166 | 1912 | 14.22 | -.00 | 98729 | 1.4291 | -.0630 | .4848 | -.0011 | -.0008 | .0117 |
| 2344 | .166 | 1896 | 16.22 | -.00 | 98746 | 1.5722 | -.0922 | .5511 | -.0009 | -.0003 | .0040 |
| 2345 | .166 | 1909 | 18.23 | -.00 | 98740 | 1.7132 | -.1128 | .6269 | -.0005 | -.0010 | .0066 |
| 2346 | .166 | 1905 | 20.22 | -.00 | 98743 | 1.8667 | -.1256 | .7087 | .0005 | -.0010 | .0080 |
| 2347 | .166 | 1896 | 21.80 | -.00 | 98756 | 1.9779 | -.1314 | .7753 | -.0003 | .0008 | .0068 |
| 2348 | .166 | 1909 | .02 | .00 | 98740 | .3167 | .0847 | -.1055 | -.0005 | .0014 | -.0127 |

TEST 995 RUN 139

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2334 | .0119 | 0.0000 | .9780 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0215 | .0076 |
| 2335 | -1.8564 | 0.0000 | .9784 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0210 | .0076 |
| 2336 | .0383 | 0.0000 | .9777 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0216 | .0076 |
| 2337 | 1.9601 | 0.0000 | .9777 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0075 |
| 2338 | 3.9217 | 0.0000 | .9781 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0212 | .0075 |
| 2339 | 5.9220 | 0.0000 | .9775 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0216 | .0074 |
| 2340 | 7.9363 | 0.0000 | .9773 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0218 | .0076 |
| 2341 | 10.0249 | 0.0000 | .9770 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0219 | .0077 |
| 2342 | 12.1284 | 0.0000 | .9774 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0078 |
| 2343 | 14.2182 | 0.0000 | .9776 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0209 | .0079 |
| 2344 | 16.2159 | 0.0000 | .9775 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0210 | .0080 |
| 2345 | 18.2254 | 0.0000 | .9765 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0216 | .0080 |
| 2346 | 20.2224 | 0.0000 | .9768 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0210 | .0082 |
| 2347 | 21.8041 | 0.0000 | .9767 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0210 | .0083 |
| 2348 | .0243 | 0.0000 | .9775 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0075 |

TEST 995 RUN 139

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2334 | .0119 | .3052 | .0848 | -.1031 | .3052 | .0557 | -.1031 | .3052 | .0772 | -.1031 | 1.0000 |
| 2335 | -1.8564 | .1595 | .0928 | -.1691 | .1595 | .0641 | -.1691 | .1595 | .0851 | -.1691 | 1.0000 |
| 2336 | .0383 | .3167 | .0841 | -.1036 | .3167 | .0549 | -.1036 | .3167 | .0765 | -.1036 | 1.0000 |
| 2337 | 1.9601 | .4775 | .0853 | -.0354 | .4775 | .0560 | -.0354 | .4775 | .0777 | -.0354 | 1.0000 |
| 2338 | 3.9217 | .6487 | .0981 | .0449 | .6487 | .0694 | .0449 | .6487 | .0907 | .0449 | 1.0000 |
| 2339 | 5.9220 | .8078 | .1159 | .1276 | .8078 | .0869 | .1276 | .8078 | .1085 | .1276 | 1.0000 |
| 2340 | 7.9363 | .9542 | .1449 | .2156 | .9542 | .1155 | .2156 | .9542 | .1373 | .2156 | 1.0000 |
| 2341 | 10.0249 | 1.1021 | .1840 | .3034 | 1.1021 | .1544 | .3034 | 1.1021 | .1763 | .3034 | 1.0000 |
| 2342 | 12.1284 | 1.2461 | .2300 | .3941 | 1.2461 | .2008 | .3941 | 1.2461 | .2222 | .3941 | 1.0000 |
| 2343 | 14.2182 | 1.4008 | .2900 | .4848 | 1.4008 | .2612 | .4848 | 1.4008 | .2820 | .4848 | 1.0000 |
| 2344 | 16.2159 | 1.5354 | .3505 | .5511 | 1.5354 | .3215 | .5511 | 1.5354 | .3425 | .5511 | 1.0000 |
| 2345 | 18.2254 | 1.6625 | .4287 | .6269 | 1.6625 | .3991 | .6269 | 1.6625 | .4207 | .6269 | 1.0000 |
| 2346 | 20.2224 | 1.7950 | .5273 | .7087 | 1.7950 | .4981 | .7087 | 1.7950 | .5191 | .7087 | 1.0000 |
| 2347 | 21.8041 | 1.8852 | .6127 | .7753 | 1.8852 | .5834 | .7753 | 1.8852 | .6044 | .7753 | 1.0000 |
| 2348 | .0243 | .3166 | .0848 | -.1055 | .3166 | .0556 | -.1055 | .3166 | .0773 | -.1055 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995, RUN 140

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2349 | .166 | 1896 | .02 | -.00 | 98733 | .3145 | .0816 | -.1009 | -.0003 | .0003 | .0011 |
| 2350 | .166 | 1899 | .05 | -.00 | 98736 | 1.0604 | -1.5791 | -.5589 | .0003 | -.0029 | .0121 |
| 2351 | .167 | 1925 | -1.83 | -.00 | 98709 | .9095 | -1.5870 | -.6376 | .0007 | -.0031 | .0096 |
| 2352 | .166 | 1909 | .09 | -.00 | 98726 | 1.0990 | -1.6415 | -.5910 | -.0002 | -.0039 | .0143 |
| 2353 | .166 | 1905 | 2.01 | -.00 | 98733 | 1.2895 | -1.6556 | -.5293 | -.0008 | -.0039 | .0112 |
| 2354 | .165 | 1889 | 3.97 | -.00 | 98753 | 1.4052 | -1.5881 | -.4032 | -.0016 | -.0034 | .0097 |
| 2355 | .166 | 1902 | 5.96 | -.00 | 98743 | 1.5879 | -1.6063 | -.3179 | -.0013 | -.0028 | .0068 |
| 2356 | .167 | 1919 | 8.00 | -.00 | 98723 | 1.7622 | -1.6234 | -.2344 | -.0010 | -.0037 | .0087 |
| 2357 | .166 | 1912 | 10.07 | .00 | 98736 | 1.9300 | -1.6582 | -.1509 | -.0012 | -.0041 | .0095 |
| 2358 | .167 | 1919 | 12.17 | -.00 | 98730 | 2.0992 | -1.6907 | -.0641 | -.0012 | -.0045 | .0125 |
| 2359 | .166 | 1899 | 14.27 | .00 | 98753 | 2.2883 | -1.7434 | .0191 | -.0004 | -.0050 | .0117 |
| 2360 | .166 | 1909 | 16.27 | -.00 | 98733 | 2.4502 | -1.7700 | .0896 | -.0009 | -.0052 | .0146 |
| 2361 | .166 | 1902 | 18.27 | .00 | 98753 | 2.6218 | -1.7992 | .1565 | -.0004 | -.0053 | .0149 |
| 2362 | .166 | 1915 | 20.32 | -.00 | 98736 | 2.7823 | -1.8017 | .2372 | -.0000 | -.0054 | .0165 |
| 2363 | .167 | 1932 | 21.92 | -.00 | 98730 | 2.8968 | -1.7881 | .3022 | .0002 | -.0055 | .0177 |
| 2364 | .166 | 1909 | .06 | .00 | 98767 | 1.0771 | -1.6095 | -.5780 | -.0002 | -.0036 | .0097 |
| 2365 | .166 | 1899 | .01 | -.00 | 98780 | .3123 | .0631 | -.1083 | -.0001 | .0003 | .0057 |

TEST 995 RUN 140

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2349 | .0174 | 0.0000 | .9767 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0226 | .0075 |
| 2350 | .0546 | 28.2530 | 2.7972 | 20.4429 | 1.7815 | 1.8016 | 0.0000 | -1.7422 | .0139 |
| 2351 | -1.8279 | 28.7435 | 2.8480 | 20.8586 | 1.8025 | 1.8227 | 0.0000 | -1.7654 | .0134 |
| 2352 | .0908 | 29.0280 | 2.8745 | 19.8576 | 1.8452 | 1.8659 | 0.0000 | -1.8075 | .0134 |
| 2353 | 2.0149 | 29.5517 | 2.8333 | 20.1694 | 1.8699 | 1.8909 | 0.0000 | -1.7699 | .0136 |
| 2354 | 3.9657 | 27.7100 | 2.7450 | 20.8376 | 1.7474 | 1.7671 | 0.0000 | -1.6967 | .0150 |
| 2355 | 5.9639 | 27.8405 | 2.7614 | 20.7134 | 1.7483 | 1.7679 | 0.0000 | -1.6954 | .0156 |
| 2356 | 8.0012 | 27.9335 | 2.7716 | 20.6366 | 1.7426 | 1.7622 | 0.0000 | -1.6828 | .0166 |
| 2357 | 10.0659 | 28.0285 | 2.7783 | 20.5860 | 1.7563 | 1.7760 | 0.0000 | -1.6856 | .0173 |
| 2358 | 12.1728 | 28.1690 | 2.7943 | 20.4648 | 1.7637 | 1.7836 | 0.0000 | -1.6826 | .0182 |
| 2359 | 14.2665 | 28.2718 | 2.8050 | 20.3837 | 1.7914 | 1.8115 | 0.0000 | -1.6961 | .0198 |
| 2360 | 16.2667 | 28.3670 | 2.8165 | 20.2970 | 1.7923 | 1.8124 | 0.0000 | -1.6815 | .0212 |
| 2361 | 18.2712 | 28.4650 | 2.8267 | 20.2197 | 1.8098 | 1.8302 | 0.0000 | -1.6788 | .0228 |
| 2362 | 20.3206 | 28.6487 | 2.8428 | 20.0977 | 1.8117 | 1.8321 | 0.0000 | -1.6608 | .0239 |
| 2363 | 21.9189 | 28.7443 | 2.8478 | 20.0601 | 1.8031 | 1.8234 | 0.0000 | -1.6332 | .0245 |
| 2364 | .0597 | 28.6733 | 2.8175 | 20.2891 | 1.8142 | 1.8346 | 0.0000 | -1.7533 | .0135 |
| 2365 | .0123 | 0.0000 | .9707 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0284 | .0077 |

TEST 995 RUN 140

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2349 | .0174 | .3145 | .0817 | -.1009 | .3145 | .0515 | -.1009 | .3145 | .0742 | -.1009 | 1.0000 |
| 2350 | .0546 | 1.0619 | -1.5781 | -.5589 | 1.0602 | .1896 | -.3579 | 1.0619 | -1.5904 | -.5587 | 1.8000 |
| 2351 | -1.8279 | .8584 | -1.6152 | -.6376 | .9159 | .1730 | -.4342 | .8592 | -1.6061 | -.6350 | 1.8000 |
| 2352 | .0908 | 1.1016 | -1.6397 | -.5910 | 1.0987 | .1920 | -.3828 | 1.1015 | -1.5880 | -.5837 | 1.8000 |
| 2353 | 2.0149 | 1.3470 | -1.6093 | -.5293 | 1.2812 | .2458 | -.3183 | 1.3438 | -1.5331 | -.5191 | 1.8000 |
| 2354 | 3.9657 | 1.5117 | -1.4872 | -.4032 | 1.3908 | .2411 | -.2061 | 1.5139 | -1.5346 | -.4069 | 1.8000 |
| 2355 | 5.9639 | 1.7462 | -1.4326 | -.3179 | 1.5646 | .2906 | -.1207 | 1.7495 | -1.4798 | -.3215 | 1.8000 |
| 2356 | 8.0012 | 1.9710 | -1.3623 | -.2344 | 1.7284 | .3468 | -.0378 | 1.9762 | -1.4159 | -.2386 | 1.8000 |
| 2357 | 10.0659 | 2.1901 | -1.2954 | -.1509 | 1.8832 | .4166 | .0473 | 2.1943 | -1.3360 | -.1536 | 1.8000 |
| 2358 | 12.1728 | 2.4085 | -1.2100 | -.0641 | 2.0366 | .4959 | .1349 | 2.4120 | -1.2441 | -.0659 | 1.8000 |
| 2359 | 14.2665 | 2.6473 | -1.1257 | .0191 | 2.2059 | .5906 | .2212 | 2.6445 | -1.1345 | .0204 | 1.8000 |
| 2360 | 16.2667 | 2.8479 | -1.0128 | .0896 | 2.3459 | .6865 | .2918 | 2.8444 | -1.0223 | .0910 | 1.8000 |
| 2361 | 18.2712 | 3.0536 | -.8865 | .1565 | 2.4862 | .8093 | .3607 | 3.0443 | -.8809 | .1599 | 1.8000 |
| 2362 | 20.3206 | 3.2348 | -.7234 | .2372 | 2.6057 | .9517 | .4415 | 3.2238 | -.7175 | .2407 | 1.8000 |
| 2363 | 21.9189 | 3.3549 | -.5775 | .3022 | 2.6818 | 1.0707 | .5057 | 3.3463 | -.5806 | .3049 | 1.8000 |
| 2364 | .0597 | 1.0787 | -1.6084 | -.5780 | 1.0769 | .1923 | -.3733 | 1.0787 | -1.5877 | -.5742 | 1.8000 |
| 2365 | .0123 | .3123 | .0632 | -.1083 | .3123 | .0271 | -.1083 | .3123 | .0555 | -.1083 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 141

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2368 | .166 | 1905 | .03 | -.00 | 98784 | .3672 | .1297 | .1097 | -.0011 | -.0006 | .0104 |
| 2369 | .166 | 1909 | -1.85 | -.00 | 98780 | .2202 | .1347 | .0440 | -.0010 | -.0002 | .0049 |
| 2370 | .167 | 1919 | .06 | -.00 | 98777 | .3671 | .1304 | .1111 | -.0002 | -.0008 | .0146 |
| 2371 | .166 | 1899 | 1.98 | -.00 | 98790 | .5269 | .1294 | .1822 | -.0004 | -.0003 | .0070 |
| 2372 | .165 | 1889 | 3.93 | -.00 | 98800 | .6864 | .1256 | .2525 | -.0012 | -.0005 | .0028 |
| 2373 | .166 | 1915 | 5.94 | -.00 | 98777 | .8279 | .1208 | .3173 | -.0007 | -.0002 | .0040 |
| 2374 | .166 | 1909 | 7.96 | -.00 | 98787 | .9751 | .1032 | .3707 | -.0001 | .0002 | -.0001 |
| 2375 | .166 | 1909 | 10.03 | -.00 | 98787 | 1.1097 | .0778 | .4362 | -.0004 | -.0004 | .0037 |
| 2376 | .167 | 1919 | 12.14 | -.00 | 98777 | 1.2562 | .0612 | .5140 | -.0002 | -.0006 | .0065 |
| 2377 | .165 | 1892 | 14.24 | -.00 | 98800 | 1.4272 | .0407 | .5984 | -.0026 | -.0004 | .0069 |
| 2378 | .166 | 1899 | 16.24 | -.00 | 98797 | 1.5769 | .0248 | .6824 | -.0003 | -.0008 | .0078 |
| 2379 | .165 | 1892 | 18.23 | -.00 | 98804 | 1.7358 | .0079 | .7563 | .0017 | -.0005 | .0111 |
| 2380 | .165 | 1879 | 20.24 | -.00 | 98817 | 1.9084 | -.0069 | .8312 | .0015 | -.0001 | .0095 |
| 2381 | .166 | 1899 | 21.90 | -.00 | 98797 | 2.0340 | -.0166 | .8878 | .0007 | .0005 | .0089 |
| 2382 | .166 | 1902 | .04 | -.00 | 98794 | .3715 | .1405 | .1128 | .0006 | -.0010 | .0132 |

TEST 995 RUN 141

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2368 | .0306 | 0.0000 | .9774 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0218 | .0078 |
| 2369 | -1.8515 | 0.0000 | .9779 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0077 |
| 2370 | .0633 | 0.0000 | .9774 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0078 |
| 2371 | 1.9836 | 0.0000 | .9780 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0080 |
| 2372 | 3.9338 | 0.0000 | .9793 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0201 | .0082 |
| 2373 | 5.9372 | 0.0000 | .9776 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0214 | .0082 |
| 2374 | 7.9621 | 0.0000 | .9775 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0215 | .0081 |
| 2375 | 10.0296 | 0.0000 | .9788 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0201 | .0080 |
| 2376 | 12.1448 | 0.0000 | .9785 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0202 | .0082 |
| 2377 | 14.2370 | 0.0000 | .9778 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0210 | .0084 |
| 2378 | 16.2361 | 0.0000 | .9771 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0214 | .0088 |
| 2379 | 18.2332 | 0.0000 | .9764 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0219 | .0093 |
| 2380 | 20.2383 | 0.0000 | .9758 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0223 | .0094 |
| 2381 | 21.8982 | 0.0000 | .9752 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0223 | .0096 |
| 2382 | .0356 | 0.0000 | .9780 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0078 |

TEST 995 RUN 141

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2368 | .0306 | .3671 | .1299 | .1097 | .3671 | .1003 | .1097 | .3671 | .1221 | .1097 | 1.0000 |
| 2369 | -1.8515 | .2244 | .1276 | .0440 | .2244 | .0985 | .0440 | .2244 | .1199 | .0440 | 1.0000 |
| 2370 | .0633 | .3670 | .1308 | .1111 | .3670 | .1013 | .1111 | .3670 | .1230 | .1111 | 1.0000 |
| 2371 | 1.9836 | .5221 | .1476 | .1822 | .5221 | .1183 | .1822 | .5221 | .1396 | .1822 | 1.0000 |
| 2372 | 3.9338 | .6761 | .1724 | .2525 | .6761 | .1441 | .2525 | .6761 | .1643 | .2525 | 1.0000 |
| 2373 | 5.9372 | .8110 | .2058 | .3173 | .8110 | .1762 | .3173 | .8110 | .1976 | .3173 | 1.0000 |
| 2374 | 7.9621 | .9514 | .2373 | .3707 | .9514 | .2077 | .3707 | .9514 | .2292 | .3707 | 1.0000 |
| 2375 | 10.0296 | 1.0792 | .2698 | .4362 | 1.0792 | .2417 | .4362 | 1.0792 | .2618 | .4362 | 1.0000 |
| 2376 | 12.1448 | 1.2152 | .3241 | .5140 | 1.2152 | .2957 | .5140 | 1.2152 | .3159 | .5140 | 1.0000 |
| 2377 | 14.2370 | 1.3733 | .3904 | .5984 | 1.3733 | .3610 | .5984 | 1.3733 | .3820 | .5984 | 1.0000 |
| 2378 | 16.2361 | 1.5070 | .4647 | .6824 | 1.5070 | .4345 | .6824 | 1.5070 | .4559 | .6824 | 1.0000 |
| 2379 | 18.2332 | 1.6462 | .5506 | .7563 | 1.6462 | .5195 | .7563 | 1.6462 | .5414 | .7563 | 1.0000 |
| 2380 | 20.2383 | 1.7930 | .6537 | .8312 | 1.7930 | .6220 | .8312 | 1.7930 | .6443 | .8312 | 1.0000 |
| 2381 | 21.8982 | 1.8934 | .7432 | .8878 | 1.8934 | .7113 | .8878 | 1.8934 | .7336 | .8878 | 1.0000 |
| 2382 | .0356 | .3714 | .1408 | .1128 | .3714 | .1116 | .1128 | .3714 | .1329 | .1128 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 142

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2383 | .166 | 1902 | .04 | -.00 | 98790 | .3656 | .1379 | .1138 | -.0002 | -.0002 | .0032 |
| 2384 | .166 | 1909 | .07 | .00 | 98794 | 1.1286 | -1.5785 | -.3622 | -.0004 | -.0037 | .0088 |
| 2385 | .166 | 1905 | -1.81 | .00 | 98797 | .9119 | -1.4765 | -.3766 | -.0012 | -.0024 | .0062 |
| 2386 | .166 | 1902 | .13 | .00 | 98798 | 1.0771 | -1.4902 | -.3125 | -.0010 | -.0029 | .0081 |
| 2387 | .167 | 1925 | 2.03 | -.00 | 98777 | 1.2333 | -1.4795 | -.2427 | -.0005 | -.0027 | .0139 |
| 2388 | .166 | 1912 | 3.97 | -.00 | 98797 | 1.4015 | -1.4998 | -.1758 | -.0014 | -.0027 | .0181 |
| 2389 | .166 | 1915 | 5.97 | .00 | 98787 | 1.5527 | -1.5048 | -.1069 | -.0008 | -.0037 | .0061 |
| 2390 | .166 | 1909 | 7.99 | .00 | 98801 | 1.7060 | -1.5231 | -.0381 | -.0007 | -.0037 | .0048 |
| 2391 | .167 | 1922 | 10.09 | .00 | 98804 | 1.8604 | -1.5428 | .0225 | -.0005 | -.0038 | .0061 |
| 2392 | .166 | 1912 | 12.18 | .00 | 98807 | 2.0286 | -1.5804 | .0875 | -.0017 | -.0045 | .0080 |
| 2393 | .166 | 1915 | 14.27 | .00 | 98801 | 2.2075 | -1.6067 | .1680 | -.0027 | -.0048 | .0066 |
| 2394 | .166 | 1909 | 16.27 | .00 | 98804 | 2.3914 | -1.6430 | .2435 | -.0009 | -.0052 | .0087 |
| 2395 | .166 | 1915 | 18.28 | .00 | 98804 | 2.5756 | -1.6568 | .3198 | .0012 | -.0054 | .0119 |
| 2396 | .166 | 1909 | 20.28 | .00 | 98814 | 2.7784 | -1.6810 | .3882 | .0001 | -.0046 | .0119 |
| 2397 | .166 | 1912 | 21.89 | -.00 | 98811 | 2.9107 | -1.6893 | .4460 | .0001 | -.0031 | .0114 |
| 2398 | .167 | 1922 | .08 | -.00 | 98807 | 1.1072 | -1.5504 | -.3478 | .0022 | .0000 | .0055 |
| 2399 | .166 | 1912 | .04 | -.00 | 98811 | .3660 | .1267 | .1102 | -.0006 | -.0003 | .0033 |

TEST 995 RUN 142

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CHU,N | CHU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2383 | .0352 | 0.0000 | .9785 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0218 | .0277 |
| 2384 | .0732 | 29.2076 | 2.9064 | 19.6166 | 1.8570 | 1.8779 | 0.0000 | -1.8394 | .0137 |
| 2385 | -1.8095 | 27.8155 | 2.7704 | 20.6455 | 1.7401 | 1.7596 | 0.0000 | -1.7104 | .0142 |
| 2386 | .1274 | 27.8605 | 2.7837 | 20.5450 | 1.7496 | 1.7693 | 0.0000 | -1.7270 | .0145 |
| 2387 | 2.0277 | 27.9380 | 2.7928 | 20.4763 | 1.7372 | 1.7567 | 0.0000 | -1.7136 | .0150 |
| 2388 | 3.9721 | 27.9524 | 2.7961 | 20.4509 | 1.7507 | 1.7704 | 0.0000 | -1.7260 | .0159 |
| 2389 | 5.9714 | 28.0001 | 2.7969 | 20.4449 | 1.7537 | 1.7734 | 0.0000 | -1.7184 | .0168 |
| 2390 | 7.9943 | 27.9999 | 2.8003 | 20.4196 | 1.7604 | 1.7802 | 0.0000 | -1.7203 | .0179 |
| 2391 | 10.0921 | 28.1293 | 2.8131 | 20.3223 | 1.7611 | 1.7809 | 0.0000 | -1.7107 | .0189 |
| 2392 | 12.1827 | 28.1818 | 2.8184 | 20.2819 | 1.7743 | 1.7942 | 0.0000 | -1.7124 | .0200 |
| 2393 | 14.2710 | 28.2627 | 2.8204 | 20.2670 | 1.7778 | 1.7978 | 0.0000 | -1.6966 | .0213 |
| 2394 | 16.2684 | 28.3648 | 2.8375 | 20.1381 | 1.7956 | 1.8157 | 0.0000 | -1.7021 | .0227 |
| 2395 | 18.2843 | 28.4299 | 2.8367 | 20.1436 | 1.7937 | 1.8139 | 0.0000 | -1.6771 | .0240 |
| 2396 | 20.2753 | 28.1745 | 2.8438 | 20.0899 | 1.7855 | 1.8055 | 0.0000 | -1.6692 | .0252 |
| 2397 | 21.8939 | 28.2606 | 2.8438 | 20.0900 | 1.7878 | 1.8079 | 0.0000 | -1.6482 | .0264 |
| 2398 | .0822 | 28.4771 | 2.8673 | 19.9122 | 1.7916 | 1.8117 | 0.0000 | -1.7896 | .0139 |
| 2399 | .0376 | 0.0000 | .9711 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0279 | .0079 |

TEST 995 RUN 142

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CHU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2383 | .0352 | .3656 | .1382 | .1138 | .3656 | .1096 | .1138 | .3656 | .1304 | .1138 | 1.0000 |
| 2384 | .0732 | 1.1306 | -1.5770 | -.3622 | 1.1282 | .2663 | -.1527 | 1.1305 | -1.5137 | -.3536 | 1.8000 |
| 2385 | -1.8095 | .8648 | -1.5046 | -.3766 | .9198 | .2204 | -.1803 | .8636 | -1.5587 | -.3811 | 1.8000 |
| 2386 | .1274 | 1.0804 | -1.4878 | -.3125 | 1.0765 | .2473 | -.1151 | 1.0805 | -1.5327 | -.3159 | 1.8000 |
| 2387 | 2.0277 | 1.2849 | -1.4349 | -.2427 | 1.2234 | .2862 | -.0467 | 1.2864 | -1.4927 | -.2475 | 1.8000 |
| 2388 | 3.9721 | 1.5021 | -1.3991 | -.1758 | 1.3808 | .3316 | .0217 | 1.5041 | -1.4442 | -.1791 | 1.8000 |
| 2389 | 5.9714 | 1.7008 | -1.3351 | -.1069 | 1.5184 | .3923 | .0911 | 1.7036 | -1.3781 | -.1098 | 1.8000 |
| 2390 | 7.9943 | 1.9012 | -1.2711 | -.0381 | 1.6564 | .4543 | .1605 | 1.9040 | -1.3084 | -.0403 | 1.8000 |
| 2391 | 10.0921 | 2.1023 | -1.1939 | .0225 | 1.7934 | .5220 | .2212 | 2.1053 | -1.2365 | .0204 | 1.8000 |
| 2392 | 12.1827 | 2.3164 | -1.1167 | .0875 | 1.9420 | .5976 | .2877 | 2.3176 | -1.1423 | .0869 | 1.8000 |
| 2393 | 14.2710 | 2.5355 | -1.0139 | .1680 | 2.0972 | .6887 | .3686 | 2.5360 | -1.0363 | .1678 | 1.8000 |
| 2394 | 16.2684 | 2.7559 | -.9073 | .2435 | 2.2529 | .7937 | .4461 | 2.7516 | -.9151 | .2453 | 1.8000 |
| 2395 | 18.2843 | 2.9653 | -.7651 | .3198 | 2.4026 | .9140 | .5222 | 2.9610 | -.7761 | .3214 | 1.8000 |
| 2396 | 20.2753 | 3.1888 | -.6141 | .3882 | 2.5701 | 1.0356 | .5896 | 3.1869 | -.6341 | .3888 | 1.8000 |
| 2397 | 21.8939 | 3.3306 | -.4821 | .4460 | 2.6640 | 1.1504 | .6477 | 3.3277 | -.5012 | .4468 | 1.8000 |
| 2398 | .0822 | 1.1094 | -1.5488 | -.3478 | 1.1069 | .2288 | -.1449 | 1.1094 | -1.5512 | -.3457 | 1.8000 |
| 2399 | .0376 | .3659 | .1269 | .1102 | .3659 | .0912 | .1102 | .3659 | .1191 | .1102 | 1.0000 |

TEST 995 NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL RUN 143

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2409 | .166 | 1929 | -.01 | -.00 | 100362 | .2187 | .1347 | -.3374 | -.0002 | -.0001 | -.0032 |
| 2410 | .166 | 1945 | -1.89 | -.00 | 100352 | .0585 | .1550 | -.3978 | -.0014 | -.0009 | .0055 |
| 2411 | .166 | 1942 | .01 | -.00 | 100352 | .2132 | .1328 | -.3418 | .0004 | .0003 | -.0012 |
| 2412 | .167 | 1952 | 1.93 | -.00 | 100349 | .3646 | .1076 | -.2771 | -.0003 | .0003 | .0015 |
| 2413 | .166 | 1942 | 3.89 | -.00 | 100359 | .5121 | .0786 | -.2048 | .0001 | -.0000 | .0039 |
| 2414 | .167 | 1965 | 5.90 | -.00 | 100349 | .6514 | .0477 | -.1257 | .0003 | .0000 | -.0025 |
| 2415 | .166 | 1935 | 7.93 | -.00 | 100369 | .8038 | .0179 | -.0406 | -.0001 | .0002 | -.0053 |
| 2416 | .167 | 1952 | 10.00 | -.00 | 100352 | .9466 | -.0232 | .0425 | -.0005 | .0001 | -.0027 |
| 2417 | .167 | 1962 | 12.11 | -.00 | 100339 | 1.0903 | -.0618 | .1263 | -.0010 | -.0000 | -.0012 |
| 2418 | .166 | 1942 | 14.21 | -.00 | 100365 | 1.2275 | -.1017 | .2145 | -.0005 | -.0009 | .0044 |
| 2419 | .166 | 1932 | 16.19 | -.00 | 100369 | 1.3762 | -.1379 | .3013 | -.0005 | -.0004 | .0054 |
| 2420 | .166 | 1942 | 18.19 | .00 | 100362 | 1.5191 | -.1639 | .3813 | .0008 | -.0018 | .0002 |
| 2421 | .167 | 1952 | 20.20 | -.00 | 100359 | 1.6609 | -.1658 | .4628 | .0011 | -.0008 | .0053 |
| 2422 | .167 | 1955 | 21.60 | -.00 | 100352 | 1.7586 | -.1648 | .5376 | .0002 | -.0005 | .0058 |
| 2423 | .166 | 1935 | .00 | -.00 | 100386 | .2138 | .1287 | -.3408 | -.0001 | -.0000 | -.0045 |

TEST 995 RUN 143

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2409 | -.0058 | 0.0000 | .9841 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0154 | .0073 |
| 2410 | -1.8928 | 0.0000 | .9847 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0147 | .0080 |
| 2411 | .0143 | 0.0000 | .9853 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0142 | .0073 |
| 2412 | 1.9306 | 0.0000 | .9858 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0136 | .0069 |
| 2413 | 3.8916 | 0.0000 | .9861 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0133 | .0067 |
| 2414 | 5.8991 | 0.0000 | .9863 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0129 | .0066 |
| 2415 | 7.9315 | 0.0000 | .9868 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0126 | .0068 |
| 2416 | 9.9960 | 0.0000 | .9855 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0137 | .0069 |
| 2417 | 12.1078 | 0.0000 | .9868 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0123 | .0070 |
| 2418 | 14.2065 | 0.0000 | .9869 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0122 | .0072 |
| 2419 | 16.1942 | 0.0000 | .9877 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0114 | .0073 |
| 2420 | 18.1911 | 0.0000 | .9878 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0111 | .0074 |
| 2421 | 20.1982 | 0.0000 | .9858 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0128 | .0074 |
| 2422 | 21.7998 | 0.0000 | .9845 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0138 | .0074 |
| 2423 | .0005 | .0404 | .9862 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0114 | .0073 |

TEST 995 RUN 143

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2409 | -.0058 | .2187 | .1347 | -.3374 | .2187 | .1119 | -.3374 | .2187 | .1273 | -.3374 | 1.0000 |
| 2410 | -1.8920 | .0636 | .1530 | -.3978 | .0636 | .1303 | -.3978 | .0636 | .1450 | -.3978 | 1.0000 |
| 2411 | .0143 | .2132 | .1329 | -.3418 | .2132 | .1114 | -.3418 | .2132 | .1256 | -.3418 | 1.0000 |
| 2412 | 1.9306 | .3608 | .1198 | -.2771 | .3608 | .0993 | -.2771 | .3608 | .1129 | -.2771 | 1.0000 |
| 2413 | 3.8916 | .5056 | .1131 | -.2048 | .5056 | .0931 | -.2048 | .5056 | .1064 | -.2048 | 1.0000 |
| 2414 | 5.8991 | .6430 | .1144 | -.1257 | .6430 | .0948 | -.1257 | .6430 | .1078 | -.1257 | 1.0000 |
| 2415 | 7.9315 | .7928 | .1285 | -.0406 | .7928 | .1091 | -.0406 | .7928 | .1217 | -.0406 | 1.0000 |
| 2416 | 9.9960 | .9362 | .1415 | .0425 | .9362 | .1209 | .0425 | .9362 | .1346 | .0425 | 1.0000 |
| 2417 | 12.1078 | 1.0790 | .1682 | .1263 | 1.0790 | .1489 | .1263 | 1.0790 | .1612 | .1263 | 1.0000 |
| 2418 | 14.2065 | 1.2149 | .2027 | .2145 | 1.2149 | .1832 | .2145 | 1.2149 | .1954 | .2145 | 1.0000 |
| 2419 | 16.1942 | 1.3600 | .2514 | .3013 | 1.3600 | .2327 | .3013 | 1.3600 | .2441 | .3013 | 1.0000 |
| 2420 | 18.1911 | 1.4944 | .3185 | .3813 | 1.4944 | .3000 | .3813 | 1.4944 | .3111 | .3813 | 1.0000 |
| 2421 | 20.1982 | 1.6160 | .4179 | .4628 | 1.6160 | .3976 | .4628 | 1.6160 | .4104 | .4628 | 1.0000 |
| 2422 | 21.7998 | 1.6940 | .5001 | .5376 | 1.6940 | .4789 | .5376 | 1.6940 | .4926 | .5376 | 1.0000 |
| 2423 | .0005 | .2130 | .1287 | -.3408 | .2130 | .1100 | -.3408 | .2130 | .1214 | -.3408 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 144

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2424 | .166 | 1945 | .00 | -.00 | 100382 | .2058 | .1257 | -.3417 | .0009 | .0003 | -.0014 |
| 2425 | .166 | 1945 | -.00 | -.00 | 100382 | .2095 | .1234 | -.3397 | .0007 | .0001 | -.0036 |
| 2426 | .166 | 1935 | .02 | .00 | 100420 | .9364 | -1.5138 | -.7946 | .0007 | -.0011 | -.0058 |
| 2427 | .167 | 1949 | -1.65 | -.00 | 100403 | .7691 | -1.5037 | -.6568 | .0018 | -.0028 | .0133 |
| 2428 | .166 | 1942 | .07 | -.00 | 100413 | .9532 | -1.5439 | -.8089 | .0008 | -.0028 | .0063 |
| 2429 | .167 | 1958 | 1.98 | -.00 | 100403 | 1.1161 | -1.5585 | -.7587 | .0018 | -.0026 | .0025 |
| 2430 | .167 | 1955 | 3.94 | -.00 | 100406 | 1.2832 | -1.6008 | -.6853 | .0012 | -.0026 | .0031 |
| 2431 | .166 | 1939 | 5.93 | -.00 | 100420 | 1.4426 | -1.6453 | -.6157 | .0021 | -.0025 | .0022 |
| 2432 | .166 | 1939 | 7.97 | -.00 | 100423 | 1.6116 | -1.6858 | -.5355 | .0009 | -.0030 | .0041 |
| 2433 | .166 | 1942 | 10.02 | -.00 | 100420 | 1.7551 | -1.7192 | -.4485 | -.0003 | -.0032 | .0058 |
| 2434 | .165 | 1922 | 12.15 | -.00 | 100440 | 1.9034 | -1.7468 | -.3499 | -.0018 | -.0035 | .0054 |
| 2435 | .166 | 1929 | 14.24 | .00 | 100443 | 2.0638 | -1.7925 | -.2673 | .0013 | -.0038 | .0055 |
| 2436 | .167 | 1952 | 16.24 | -.00 | 100410 | 2.2356 | -1.8189 | -.1849 | .0007 | -.0040 | .0109 |
| 2437 | .165 | 1925 | 18.25 | -.00 | 100433 | 2.3600 | -1.8450 | -.1028 | .0029 | -.0043 | .0105 |
| 2438 | .166 | 1932 | 20.24 | -.00 | 100436 | 2.5040 | -1.8436 | -.0360 | .0014 | -.0043 | .0123 |
| 2439 | .166 | 1939 | 21.89 | -.00 | 100430 | 2.5832 | -1.8340 | .0339 | .0015 | -.0032 | .0058 |
| 2440 | .167 | 1962 | .03 | .00 | 100413 | .9244 | -1.4872 | -.7932 | .0015 | -.0023 | .0013 |
| 2441 | .166 | 1935 | -.01 | -.00 | 100440 | .2104 | .1139 | -.3432 | .0012 | .0002 | .0032 |

TEST 995 RUN 144

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2424 | .0023 | .0718 | .9889 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0107 | .0073 |
| 2425 | -.0043 | 0.0000 | .9881 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0115 | .0073 |
| 2426 | .0230 | 28.3506 | 2.7717 | 20.6355 | 1.7234 | 1.7428 | 0.0000 | -1.7138 | .0106 |
| 2427 | -1.6514 | 28.5981 | 2.7991 | 20.4286 | 1.7380 | 1.7576 | 0.0000 | -1.7272 | .0104 |
| 2428 | .0654 | 28.7091 | 2.8171 | 20.2918 | 1.7578 | 1.7775 | 0.0000 | -1.7516 | .0103 |
| 2429 | 1.9785 | 28.7266 | 2.8202 | 20.2687 | 1.7454 | 1.7650 | 0.0000 | -1.7385 | .0108 |
| 2430 | 3.9415 | 28.8013 | 2.8291 | 20.2015 | 1.7565 | 1.7762 | 0.0000 | -1.7469 | .0114 |
| 2431 | 5.9309 | 28.8101 | 2.8308 | 20.1886 | 1.7750 | 1.7949 | 0.0000 | -1.7584 | .0121 |
| 2432 | 7.9669 | 28.9402 | 2.8469 | 20.0670 | 1.7869 | 1.8070 | 0.0000 | -1.7662 | .0128 |
| 2433 | 10.0246 | 28.8145 | 2.8360 | 20.1491 | 1.7742 | 1.7941 | 0.0000 | -1.7429 | .0134 |
| 2434 | 12.1474 | 28.4864 | 2.8004 | 20.4185 | 1.7632 | 1.7831 | 0.0000 | -1.7146 | .0145 |
| 2435 | 14.2402 | 28.6083 | 2.8177 | 20.2874 | 1.7705 | 1.7904 | 0.0000 | -1.7105 | .0156 |
| 2436 | 16.2432 | 28.7374 | 2.8253 | 20.2303 | 1.7597 | 1.7794 | 0.0000 | -1.6806 | .0165 |
| 2437 | 18.2525 | 28.7621 | 2.8296 | 20.1976 | 1.7867 | 1.8068 | 0.0000 | -1.6896 | .0186 |
| 2438 | 20.2386 | 28.9136 | 2.8480 | 20.0580 | 1.7960 | 1.8162 | 0.0000 | -1.6804 | .0207 |
| 2439 | 21.8875 | 28.9898 | 2.8583 | 19.9800 | 1.7975 | 1.8177 | 0.0000 | -1.6653 | .0228 |
| 2440 | .0318 | 28.1883 | 2.7748 | 20.6121 | 1.7068 | 1.7259 | 0.0000 | -1.8935 | .0105 |
| 2441 | -.0090 | 0.0000 | .9735 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0256 | .0073 |

TEST 995 RUN 144

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2424 | .0023 | .2058 | .1257 | -.3417 | .2058 | .1077 | -.3417 | .2058 | .1184 | -.3417 | 1.8000 |
| 2425 | -.0043 | .2095 | .1234 | -.3397 | .2095 | .1046 | -.3397 | .2095 | .1161 | -.3397 | 1.8000 |
| 2426 | .0230 | .9370 | -1.5134 | -.7946 | .9363 | .1994 | -.6002 | .9371 | -1.5806 | -.8010 | 1.8000 |
| 2427 | -1.6514 | .7201 | -1.5277 | -.6568 | .7762 | .1990 | -.6608 | .7187 | -1.5801 | -.8616 | 1.8000 |
| 2428 | .0654 | .9549 | -1.5428 | -.8089 | .9529 | .2047 | -.6106 | .9550 | -1.5753 | -.8114 | 1.8000 |
| 2429 | 1.9785 | 1.1692 | -1.5191 | -.7507 | 1.1090 | .2145 | -.5538 | 1.1704 | -1.5644 | -.7546 | 1.8000 |
| 2430 | 3.9415 | 1.3902 | -1.5089 | -.6853 | 1.2694 | .2321 | -.4871 | 1.3918 | -1.5437 | -.6879 | 1.8000 |
| 2431 | 5.9309 | 1.6049 | -1.4875 | -.6157 | 1.4215 | .2658 | -.4154 | 1.6054 | -1.5046 | -.6162 | 1.8000 |
| 2432 | 7.9669 | 1.8297 | -1.4461 | -.5355 | 1.5820 | .3108 | -.3339 | 1.8287 | -1.4520 | -.5347 | 1.8000 |
| 2433 | 10.0246 | 2.0275 | -1.3874 | -.4485 | 1.7187 | .3463 | -.2483 | 2.0285 | -1.4066 | -.4492 | 1.8000 |
| 2434 | 12.1474 | 2.2284 | -1.3072 | -.3499 | 1.8574 | .4021 | -.1509 | 2.2319 | -1.3381 | -.3518 | 1.8000 |
| 2435 | 14.2402 | 2.4413 | -1.2298 | -.2673 | 2.0057 | .4708 | -.0676 | 2.4436 | -1.2545 | -.2684 | 1.8000 |
| 2436 | 16.2432 | 2.6551 | -1.1209 | -.1849 | 2.1629 | .5520 | .0136 | 2.6608 | -1.1570 | -.1872 | 1.8000 |
| 2437 | 18.2525 | 2.8192 | -1.0130 | -.1028 | 2.2596 | .6652 | .0988 | 2.8171 | -1.0253 | -.1020 | 1.8000 |
| 2438 | 20.2386 | 2.9872 | -.8636 | -.0360 | 2.3659 | .8008 | .1666 | 2.9817 | -.8693 | -.0342 | 1.8000 |
| 2439 | 21.8875 | 3.0807 | -.7388 | .0339 | 2.4106 | .9063 | .2367 | 3.0742 | -.7454 | .0359 | 1.8000 |
| 2440 | .0318 | .9252 | -1.4866 | -.7932 | .9243 | .2096 | -.6007 | .9253 | -1.5704 | -.8015 | 1.8000 |
| 2441 | -.0090 | .2104 | .1138 | -.3432 | .2104 | .0889 | -.3432 | .2104 | .1066 | -.3432 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 145

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2455 | .166 | 1939 | .01 | .00 | 100501 | .3459 | .1023 | .0119 | -.0015 | .0001 | -.0071 |
| 2456 | .166 | 1932 | -1.87 | .00 | 100504 | .1792 | .1083 | -.0614 | -.0021 | -.0003 | -.0123 |
| 2457 | .166 | 1942 | .02 | .00 | 100487 | .3418 | .1032 | .0122 | -.0020 | .0001 | -.0103 |
| 2458 | .166 | 1935 | 1.97 | -.00 | 100501 | .5076 | .0945 | .0852 | -.0017 | .0002 | -.0022 |
| 2459 | .166 | 1949 | 3.93 | .00 | 100487 | .6801 | .0844 | .1671 | -.0024 | .0005 | -.0118 |
| 2460 | .166 | 1942 | 5.93 | -.00 | 100498 | .8316 | .0694 | .2480 | -.0018 | -.0000 | -.0016 |
| 2461 | .166 | 1945 | 7.95 | -.00 | 100498 | .9842 | .0571 | .3303 | -.0009 | .0014 | .0173 |
| 2462 | .165 | 1925 | 10.01 | -.00 | 100514 | 1.1197 | .0452 | .3953 | -.0017 | -.0002 | -.0003 |
| 2463 | .168 | 1975 | 12.13 | -.00 | 100498 | 1.2354 | .0215 | .4651 | -.0017 | -.0005 | -.0000 |
| 2464 | .166 | 1949 | 14.20 | .00 | 100501 | 1.4170 | .0013 | .5555 | -.0025 | -.0002 | -.0072 |
| 2465 | .166 | 1932 | 16.20 | .00 | 100511 | 1.5673 | -.0193 | .6454 | -.0016 | -.0010 | -.0110 |
| 2466 | .166 | 1949 | 18.23 | .00 | 100494 | 1.7270 | -.0483 | .7287 | -.0011 | -.0016 | -.0073 |
| 2467 | .165 | 1925 | 20.25 | .00 | 100518 | 1.8852 | -.0652 | .7982 | -.0005 | -.0006 | -.0072 |
| 2468 | .166 | 1939 | 21.73 | -.00 | 100504 | 2.0022 | -.0751 | .8554 | -.0002 | .0003 | -.0074 |
| 2469 | .166 | 1942 | .02 | .00 | 100501 | .3429 | .1069 | .0129 | -.0009 | .0002 | -.0095 |

TEST 995 RUN 145

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2455 | .0129 | 0.0000 | .9811 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0074 |
| 2456 | -1.8667 | 0.0000 | .9832 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0163 | .0073 |
| 2457 | .0173 | 0.0000 | .9825 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0168 | .0073 |
| 2458 | 1.9653 | 0.0000 | .9829 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0166 | .0073 |
| 2459 | 3.9270 | 0.0000 | .9837 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0156 | .0073 |
| 2460 | 5.9280 | 0.0000 | .9838 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0155 | .0074 |
| 2461 | 7.9541 | 0.0000 | .9836 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0157 | .0074 |
| 2462 | 10.0143 | 0.0000 | .9837 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0156 | .0076 |
| 2463 | 12.1254 | 0.0000 | .9835 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0153 | .0076 |
| 2464 | 14.2039 | 0.0000 | .9843 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0146 | .0079 |
| 2465 | 16.2042 | 0.0000 | .9835 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0154 | .0081 |
| 2466 | 18.2296 | 0.0000 | .9827 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0158 | .0083 |
| 2467 | 20.2464 | 0.0000 | .9823 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0162 | .0086 |
| 2468 | 21.7307 | 0.0000 | .9822 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0160 | .0087 |
| 2469 | .0197 | 0.0000 | .9851 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0144 | .0075 |

TEST 995 RUN 145

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2455 | .0129 | .3459 | .1024 | .0119 | .3459 | .0766 | .0119 | .3459 | .0950 | .0119 | 1.0000 |
| 2456 | -1.8667 | .1826 | .1024 | -.0614 | .1826 | .0788 | -.0614 | .1826 | .0951 | -.0614 | 1.0000 |
| 2457 | .0173 | .3418 | .1033 | .0122 | .3418 | .0791 | .0122 | .3418 | .0959 | .0122 | 1.0000 |
| 2458 | 1.9653 | .5041 | .1118 | .0852 | .5041 | .0880 | .0852 | .5041 | .1046 | .0852 | 1.0000 |
| 2459 | 3.9270 | .6727 | .1307 | .1671 | .6727 | .1078 | .1671 | .6727 | .1234 | .1671 | 1.0000 |
| 2460 | 5.9280 | .8200 | .1550 | .2480 | .8200 | .1320 | .2480 | .8200 | .1476 | .2480 | 1.0000 |
| 2461 | 7.9541 | .9669 | .1927 | .3303 | .9669 | .1697 | .3303 | .9669 | .1853 | .3303 | 1.0000 |
| 2462 | 10.0143 | 1.0948 | .2392 | .3953 | 1.0948 | .2160 | .3953 | 1.0948 | .2316 | .3953 | 1.0000 |
| 2463 | 12.1254 | 1.2033 | .2806 | .4651 | 1.2033 | .2576 | .4651 | 1.2033 | .2729 | .4651 | 1.0000 |
| 2464 | 14.2039 | 1.3733 | .3469 | .5555 | 1.3733 | .3264 | .5555 | 1.3733 | .3411 | .5555 | 1.0000 |
| 2465 | 16.2042 | 1.5105 | .4189 | .6454 | 1.5105 | .3954 | .6454 | 1.5105 | .4108 | .6454 | 1.0000 |
| 2466 | 18.2296 | 1.6555 | .4943 | .7287 | 1.6555 | .4702 | .7287 | 1.6555 | .4860 | .7287 | 1.0000 |
| 2467 | 20.2464 | 1.7913 | .5912 | .7982 | 1.7913 | .5664 | .7982 | 1.7913 | .5826 | .7982 | 1.0000 |
| 2468 | 21.7307 | 1.8878 | .6715 | .8554 | 1.8878 | .6469 | .8554 | 1.8878 | .6628 | .8554 | 1.0000 |
| 2469 | .0197 | .3428 | .1070 | .0129 | .3428 | .0851 | .0129 | .3428 | .0995 | .0129 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 146

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2470 | .166 | 1945 | .02 | .00 | 100498 | .3411 | .1055 | .0118 | -.0010 | .0003 | -.0072 |
| 2471 | .166 | 1945 | .02 | .00 | 100491 | .3353 | .1042 | .0130 | -.0008 | -.0001 | -.0074 |
| 2472 | .167 | 1952 | .06 | .00 | 100498 | 1.0437 | -1.4642 | -.4038 | -.0030 | -.0031 | -.0045 |
| 2473 | .166 | 1935 | -1.83 | .00 | 100508 | .8805 | -1.4887 | -.4806 | -.0023 | -.0030 | -.0123 |
| 2474 | .166 | 1942 | .08 | .00 | 100501 | 1.0572 | -1.4964 | -.4886 | -.0022 | -.0034 | -.0082 |
| 2475 | .166 | 1949 | 2.01 | .00 | 100504 | 1.2293 | -1.5019 | -.3387 | -.0022 | -.0031 | -.0069 |
| 2476 | .166 | 1935 | 3.96 | .00 | 100504 | 1.4145 | -1.5291 | -.2656 | -.0018 | -.0030 | .0036 |
| 2477 | .167 | 1955 | 5.97 | .00 | 100477 | 1.5882 | -1.5338 | -.1819 | -.0014 | -.0034 | -.0009 |
| 2478 | .166 | 1942 | 8.00 | .00 | 100501 | 1.7564 | -1.5631 | -.1066 | -.0010 | -.0037 | -.0020 |
| 2479 | .166 | 1945 | 10.07 | .00 | 100487 | 1.9196 | -1.5812 | -.0279 | -.0022 | -.0044 | -.0003 |
| 2480 | .167 | 1968 | 12.18 | .00 | 100457 | 2.0631 | -1.5953 | .0413 | -.0018 | -.0047 | .0008 |
| 2481 | .165 | 1925 | 14.27 | .00 | 100497 | 2.2491 | -1.6582 | .1143 | -.0029 | -.0054 | .0000 |
| 2482 | .166 | 1935 | 16.26 | .00 | 100484 | 2.4110 | -1.6805 | .2004 | -.0021 | -.0061 | .0044 |
| 2483 | .165 | 1922 | 18.27 | .00 | 100494 | 2.5692 | -1.6718 | .2935 | -.0026 | -.0059 | -.0020 |
| 2484 | .166 | 1945 | 20.29 | .00 | 100467 | 2.7521 | -1.6800 | .3719 | -.0006 | -.0049 | -.0064 |
| 2485 | .167 | 1958 | 21.89 | .00 | 100454 | 2.8893 | -1.6774 | .4302 | -.0002 | -.0058 | -.0052 |
| 2486 | .167 | 1962 | .07 | .00 | 100471 | 1.0746 | -1.5280 | -.4302 | -.0011 | -.0039 | -.0041 |
| 2487 | .166 | 1935 | .03 | .00 | 100504 | .3393 | .0943 | .0107 | -.0008 | -.0001 | -.0074 |

TEST 995 RUN 146

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2470 | .0196 | 0.0000 | .9849 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0146 | .0075 |
| 2471 | .0192 | 0.0000 | .9848 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0146 | .0074 |
| 2472 | .0590 | 27.7792 | 2.7262 | 20.9803 | 1.6681 | 1.6869 | 0.0000 | -1.6569 | .0145 |
| 2473 | -1.8293 | 27.9164 | 2.7463 | 20.8282 | 1.6970 | 1.7161 | 0.0000 | -1.6897 | .0142 |
| 2474 | .0781 | 28.0049 | 2.7505 | 20.7961 | 1.6976 | 1.7167 | 0.0000 | -1.6888 | .0146 |
| 2475 | 2.0070 | 27.9975 | 2.7568 | 20.7485 | 1.6933 | 1.7123 | 0.0000 | -1.6882 | .0150 |
| 2476 | 3.9647 | 28.0533 | 2.7607 | 20.7186 | 1.7114 | 1.7307 | 0.0000 | -1.7005 | .0157 |
| 2477 | 5.9711 | 28.1700 | 2.7697 | 20.6506 | 1.7855 | 1.7247 | 0.0000 | -1.6863 | .0165 |
| 2478 | 8.0011 | 28.2353 | 2.7761 | 20.6022 | 1.7227 | 1.7421 | 0.0000 | -1.6969 | .0175 |
| 2479 | 10.0684 | 28.2894 | 2.7845 | 20.5386 | 1.7257 | 1.7451 | 0.0000 | -1.6920 | .0188 |
| 2480 | 12.1756 | 28.4117 | 2.7990 | 20.4292 | 1.7160 | 1.7373 | 0.0000 | -1.6731 | .0199 |
| 2481 | 14.2686 | 28.4736 | 2.8073 | 20.3662 | 1.7626 | 1.7825 | 0.0000 | -1.7043 | .0212 |
| 2482 | 16.2628 | 28.5444 | 2.8166 | 20.2962 | 1.7599 | 1.7797 | 0.0000 | -1.6879 | .0221 |
| 2483 | 18.2736 | 28.0932 | 2.7654 | 20.6837 | 1.7314 | 1.7509 | 0.0000 | -1.6338 | .0239 |
| 2484 | 20.2900 | 28.2461 | 2.7791 | 20.5800 | 1.7243 | 1.7437 | 0.0000 | -1.6066 | .0250 |
| 2485 | 21.8908 | 28.3262 | 2.7845 | 20.5391 | 1.7184 | 1.7377 | 0.0000 | -1.5833 | .0262 |
| 2486 | .0696 | 28.6127 | 2.8120 | 20.3308 | 1.7366 | 1.7561 | 0.0000 | -1.7300 | .0143 |
| 2487 | .0263 | 0.0000 | .9756 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0075 |

TEST 995 RUN 146

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2470 | .0196 | .3410 | .1056 | .0118 | .3410 | .0835 | .0118 | .3410 | .0981 | .0118 | 1.8000 |
| 2471 | .0192 | .3353 | .1044 | .0130 | .3353 | .0823 | .0130 | .3353 | .0969 | .0130 | 1.8000 |
| 2472 | .0590 | 1.0452 | -1.4631 | -.4038 | 1.0435 | .1905 | -.2156 | 1.0453 | -1.5895 | -.4164 | 1.8000 |
| 2473 | -1.8293 | .8325 | -1.5161 | -.4806 | .8867 | .1659 | -.2892 | .8299 | -1.6132 | -.4900 | 1.8000 |
| 2474 | .0781 | 1.0592 | -1.4950 | -.4086 | 1.0569 | .1880 | -.2171 | 1.0593 | -1.5920 | -.4179 | 1.8000 |
| 2475 | 2.0070 | 1.2812 | -1.4579 | -.3387 | 1.2219 | .2194 | -.1476 | 1.2842 | -1.5595 | -.3485 | 1.8000 |
| 2476 | 3.9647 | 1.5168 | -1.4276 | -.2656 | 1.3985 | .2640 | -.0726 | 1.5216 | -1.5117 | -.2734 | 1.8000 |
| 2477 | 5.9711 | 1.7392 | -1.3603 | -.1819 | 1.5617 | .3195 | .0105 | 1.7469 | -1.4509 | -.1903 | 1.8000 |
| 2478 | 8.0011 | 1.9569 | -1.3034 | -.1066 | 1.7171 | .3850 | .0877 | 1.9649 | -1.3777 | -.1131 | 1.8000 |
| 2479 | 10.0684 | 2.1665 | -1.2212 | -.0279 | 1.8648 | .4591 | .1667 | 2.1760 | -1.2935 | -.0341 | 1.8000 |
| 2480 | 12.1756 | 2.3532 | -1.1243 | .0413 | 1.9908 | .5352 | .2351 | 2.3663 | -1.2047 | .0343 | 1.8000 |
| 2481 | 14.2686 | 2.5884 | -1.0527 | .1143 | 2.1540 | .6344 | .3131 | 2.5927 | -1.0907 | .1123 | 1.8000 |
| 2482 | 16.2628 | 2.7851 | -.9381 | .2004 | 2.2923 | .7292 | .3990 | 2.7907 | -.9795 | .1982 | 1.8000 |
| 2483 | 18.2736 | 2.9638 | -.7819 | .2935 | 2.4209 | .8384 | .4889 | 2.9790 | -.8519 | .2880 | 1.8000 |
| 2484 | 20.2900 | 3.1639 | -.6214 | .3719 | 2.5659 | .9709 | .5664 | 3.1832 | -.6986 | .3656 | 1.8000 |
| 2485 | 21.8908 | 3.3063 | -.4792 | .4302 | 2.6656 | 1.0892 | .6241 | 3.3293 | -.5625 | .4233 | 1.8000 |
| 2486 | .0696 | 1.0765 | -1.5267 | -.4302 | 1.0744 | .1955 | -.2343 | 1.0766 | -1.5845 | -.4351 | 1.8000 |
| 2487 | .0263 | .3392 | .0944 | .0107 | .3392 | .0633 | .0107 | .3392 | .0869 | .0107 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 147

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2490 | .166 | 1935 | .01 | -.00 | 100531 | .2588 | .0902 | -.2273 | -.0002 | .0004 | .0011 |
| 2491 | .166 | 1935 | -1.87 | -.00 | 100531 | .0972 | .1085 | -.2967 | -.0012 | .0004 | -.0039 |
| 2492 | .167 | 1952 | .03 | -.00 | 100521 | .2601 | .0901 | -.2254 | -.0006 | .0004 | .0012 |
| 2493 | .167 | 1958 | 1.94 | -.00 | 100508 | .4301 | .0703 | -.1550 | -.0016 | .0003 | .0040 |
| 2494 | .166 | 1942 | 3.92 | -.00 | 100521 | .5925 | .0471 | -.0774 | -.0014 | .0005 | -.3002 |
| 2495 | .166 | 1945 | 5.90 | -.00 | 100525 | .7366 | .0189 | .0004 | -.0013 | .0002 | .0046 |
| 2496 | .166 | 1939 | 7.94 | -.00 | 100528 | .8651 | -.0083 | .0851 | -.0022 | .0002 | .0042 |
| 2497 | .166 | 1932 | 10.01 | -.00 | 100518 | 1.0183 | -.0379 | .1725 | -.0027 | .0001 | .0025 |
| 2498 | .167 | 1958 | 12.12 | -.00 | 100511 | 1.1566 | -.0713 | .2633 | -.0029 | -.0003 | .0053 |
| 2499 | .166 | 1949 | 14.21 | -.00 | 100518 | 1.3328 | -.1037 | .3564 | -.0017 | -.0008 | .0042 |
| 2500 | .167 | 1952 | 16.18 | -.00 | 100511 | 1.4640 | -.1349 | .4456 | -.0010 | -.0006 | .0022 |
| 2501 | .167 | 1952 | 18.22 | -.00 | 100511 | 1.6232 | -.1632 | .5286 | -.0004 | -.0015 | .0021 |
| 2502 | .165 | 1922 | 20.21 | -.00 | 100531 | 1.7855 | -.1710 | .6122 | -.0000 | -.0004 | .0004 |
| 2503 | .166 | 1939 | 21.86 | -.00 | 100514 | 1.9085 | -.1701 | .6846 | .0002 | .0001 | -.0034 |
| 2504 | .167 | 1952 | .02 | -.00 | 100508 | .2493 | .0942 | -.2281 | -.0005 | .0004 | -.0023 |

TEST 995 RUN 147

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2490 | .0091 | 0.0000 | .9776 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0075 |
| 2491 | -1.8684 | 0.0000 | .9778 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0215 | .0075 |
| 2492 | .0279 | 0.0000 | .9773 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0074 |
| 2493 | 1.9443 | 0.0000 | .9768 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0222 | .0074 |
| 2494 | 3.9220 | 0.0000 | .9779 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0212 | .0074 |
| 2495 | 5.9026 | 0.0000 | .9778 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0074 |
| 2496 | 7.9356 | 0.0000 | .9786 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0205 | .0072 |
| 2497 | 10.0135 | 0.0000 | .9784 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0072 |
| 2498 | 12.1194 | 0.0000 | .9786 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0200 | .0071 |
| 2499 | 14.2076 | 0.0000 | .9776 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0209 | .0072 |
| 2500 | 16.1825 | 0.0000 | .9788 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0196 | .0074 |
| 2501 | 18.2287 | 0.0000 | .9789 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0077 |
| 2502 | 20.2140 | 0.0000 | .9782 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0200 | .0080 |
| 2503 | 21.8599 | 0.0000 | .9774 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0203 | .0081 |
| 2504 | .0153 | 0.0000 | .9798 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0194 | .0075 |

TEST 995 RUN 147

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2490 | .0091 | .2587 | .0903 | -.2273 | .2587 | .0611 | -.2273 | .2587 | .0828 | -.2273 | 1.0000 |
| 2491 | -1.8684 | .1007 | .1052 | -.2967 | .1007 | .0762 | -.2967 | .1007 | .0977 | -.2967 | 1.0000 |
| 2492 | .0279 | .2600 | .0902 | -.2254 | .2600 | .0611 | -.2254 | .2600 | .0829 | -.2254 | 1.0000 |
| 2493 | 1.9443 | .4275 | .0848 | -.1550 | .4275 | .0552 | -.1550 | .4275 | .0774 | -.1550 | 1.0000 |
| 2494 | 3.9220 | .5879 | .0875 | -.0774 | .5879 | .0588 | -.0774 | .5879 | .0801 | -.0774 | 1.0000 |
| 2495 | 5.9026 | .7308 | .0946 | .0004 | .7308 | .0659 | .0004 | .7308 | .0872 | .0004 | 1.0000 |
| 2496 | 7.9356 | .8579 | .1112 | .0851 | .8579 | .0835 | .0851 | .8579 | .1040 | .0851 | 1.0000 |
| 2497 | 10.0135 | 1.0094 | .1397 | .1725 | 1.0094 | .1119 | .1725 | 1.0094 | .1325 | .1725 | 1.0000 |
| 2498 | 12.1194 | 1.1458 | .1731 | .2633 | 1.1458 | .1460 | .2633 | 1.1458 | .1660 | .2633 | 1.0000 |
| 2499 | 14.2076 | 1.3175 | .2266 | .3564 | 1.3175 | .1985 | .3564 | 1.3175 | .2194 | .3564 | 1.0000 |
| 2500 | 16.1825 | 1.4436 | .2785 | .4456 | 1.4436 | .2515 | .4456 | 1.4436 | .2711 | .4456 | 1.0000 |
| 2501 | 18.2207 | 1.5929 | .3526 | .5286 | 1.5929 | .3256 | .5286 | 1.5929 | .3449 | .5286 | 1.0000 |
| 2502 | 20.2140 | 1.7346 | .4564 | .6122 | 1.7346 | .4285 | .6122 | 1.7346 | .4485 | .6122 | 1.0000 |
| 2503 | 21.8599 | 1.8346 | .5528 | .6846 | 1.8346 | .5243 | .6846 | 1.8346 | .5447 | .6846 | 1.0000 |
| 2504 | .0153 | .2493 | .0942 | -.2281 | .2493 | .0673 | -.2281 | .2493 | .0868 | -.2281 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 148

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2506 | .167 | 1955 | .01 | -.00 | 100498 | .2537 | .0937 | -.2258 | -.0001 | .0003 | -.0002 |
| 2507 | .166 | 1949 | .05 | -.00 | 100518 | .9909 | -1.5493 | -.6742 | .0008 | -.0013 | .0089 |
| 2508 | .166 | 1939 | -1.84 | -.00 | 100528 | .8249 | -1.5486 | -.7492 | .0004 | -.0015 | .0062 |
| 2509 | .167 | 1965 | .08 | -.00 | 100505 | .9736 | -1.5154 | -.6648 | -.0002 | -.0012 | .0046 |
| 2510 | .167 | 1955 | 2.00 | -.00 | 100515 | 1.1493 | -1.5454 | -.5969 | -.0003 | -.0011 | .0060 |
| 2511 | .167 | 1952 | 3.95 | -.00 | 100515 | 1.3327 | -1.5705 | -.5241 | -.0007 | -.0017 | .0062 |
| 2512 | .166 | 1942 | 5.96 | -.00 | 100521 | 1.5016 | -1.6015 | -.4492 | -.0001 | -.0014 | .0052 |
| 2513 | .167 | 1952 | 7.99 | -.00 | 100511 | 1.6614 | -1.6227 | -.3675 | -.0003 | -.0014 | .0022 |
| 2514 | .167 | 1968 | 10.06 | -.00 | 100501 | 1.8089 | -1.6430 | -.2784 | -.0010 | -.0022 | .0084 |
| 2515 | .167 | 1958 | 12.17 | -.00 | 100515 | 1.9654 | -1.6925 | -.1938 | -.0018 | -.0030 | .0090 |
| 2516 | .167 | 1965 | 14.26 | -.00 | 100508 | 2.1406 | -1.7295 | -.0998 | -.0004 | -.0030 | .0091 |
| 2517 | .166 | 1942 | 16.26 | -.00 | 100518 | 2.3279 | -1.7904 | -.0206 | .0013 | -.0035 | .0098 |
| 2518 | .166 | 1939 | 18.25 | -.00 | 100521 | 2.4972 | -1.8075 | .0609 | -.0004 | -.0056 | .0113 |
| 2519 | .166 | 1942 | 20.26 | .00 | 100531 | 2.6184 | -1.7910 | .1354 | -.0011 | -.0047 | .0007 |
| 2520 | .166 | 1942 | 21.84 | .00 | 100511 | 2.7255 | -1.7807 | .2062 | -.0003 | -.0039 | .0002 |
| 2521 | .166 | 1949 | .05 | -.00 | 100491 | 1.0139 | -1.5823 | -.6936 | .0011 | -.0017 | .0076 |
| 2522 | .166 | 1949 | .02 | -.00 | 100491 | .2521 | .0876 | -.2298 | -.0007 | .0003 | .0023 |

TEST 995 RUN 148

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2506 | .0065 | 0.0000 | .9791 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0200 | .0074 |
| 2507 | .0468 | 28.5130 | 2.7833 | 20.5481 | 1.7326 | 1.7521 | 0.0000 | -1.7149 | .0129 |
| 2508 | -1.8392 | 28.6322 | 2.7922 | 20.4805 | 1.7517 | 1.7714 | 0.0000 | -1.7316 | .0126 |
| 2509 | .0810 | 28.2729 | 2.7628 | 20.7031 | 1.7009 | 1.7200 | 0.0000 | -1.6808 | .0129 |
| 2510 | 2.0028 | 28.2066 | 2.7603 | 20.7221 | 1.7073 | 1.7265 | 0.0000 | -1.6860 | .0133 |
| 2511 | 3.9518 | 28.1809 | 2.7543 | 20.7674 | 1.7073 | 1.7265 | 0.0000 | -1.6801 | .0137 |
| 2512 | 5.9570 | 28.1422 | 2.7516 | 20.7875 | 1.7131 | 1.7323 | 0.0000 | -1.6811 | .0143 |
| 2513 | 7.9878 | 28.1403 | 2.7538 | 20.7711 | 1.7065 | 1.7257 | 0.0000 | -1.6673 | .0149 |
| 2514 | 10.0569 | 28.1470 | 2.7570 | 20.7470 | 1.6953 | 1.7144 | 0.0000 | -1.6467 | .0154 |
| 2515 | 12.1662 | 28.2303 | 2.7625 | 20.7050 | 1.7107 | 1.7300 | 0.0000 | -1.6485 | .0162 |
| 2516 | 14.2641 | 28.3267 | 2.7723 | 20.6313 | 1.7145 | 1.7337 | 0.0000 | -1.6378 | .0171 |
| 2517 | 16.2641 | 28.4267 | 2.7859 | 20.5284 | 1.7453 | 1.7650 | 0.0000 | -1.6543 | .0183 |
| 2518 | 18.2532 | 28.4487 | 2.7847 | 20.5371 | 1.7496 | 1.7693 | 0.0000 | -1.6383 | .0200 |
| 2519 | 20.2612 | 28.5131 | 2.7909 | 20.4904 | 1.7520 | 1.7716 | 0.0000 | -1.6214 | .0222 |
| 2520 | 21.8436 | 28.5472 | 2.7986 | 20.4319 | 1.7569 | 1.7767 | 0.0000 | -1.6108 | .0241 |
| 2521 | .0544 | 28.7653 | 2.8211 | 20.2620 | 1.7723 | 1.7923 | 0.0000 | -1.7508 | .0127 |
| 2522 | .0178 | 0.0000 | .9658 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0329 | .0074 |

TEST 995 RUN 148

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2506 | .0065 | .2537 | .0937 | -.2258 | .2537 | .0662 | -.2258 | .2537 | .0863 | -.2258 | 1.0000 |
| 2507 | .0468 | .9922 | -1.5485 | -.6742 | .9908 | .1713 | -.4787 | .9922 | -1.6087 | -.6795 | 1.8000 |
| 2508 | -1.8392 | .7748 | -1.5743 | -.7492 | .8310 | .1640 | -.5516 | .7738 | -1.6151 | -.7524 | 1.8000 |
| 2509 | .0810 | .9758 | -1.5140 | -.6648 | .9734 | .1740 | -.4729 | .9759 | -1.6060 | -.6738 | 1.8000 |
| 2510 | 2.0028 | 1.2026 | -1.5043 | -.5969 | 1.1430 | .1886 | -.4043 | 1.2052 | -1.5903 | -.6051 | 1.8000 |
| 2511 | 3.9518 | 1.4377 | -1.4749 | -.5241 | 1.3201 | .2146 | -.3315 | 1.4427 | -1.5612 | -.5323 | 1.8000 |
| 2512 | 5.9570 | 1.6597 | -1.4371 | -.4492 | 1.4819 | .2524 | -.2560 | 1.6667 | -1.5179 | -.4568 | 1.8000 |
| 2513 | 7.9878 | 1.8708 | -1.3760 | -.3675 | 1.6336 | .2990 | -.1750 | 1.8810 | -1.4638 | -.3758 | 1.8000 |
| 2514 | 10.0569 | 2.0681 | -1.3019 | -.2784 | 1.7720 | .3520 | -.0871 | 2.0828 | -1.4006 | -.2879 | 1.8000 |
| 2515 | 12.1662 | 2.2780 | -1.2403 | -.1938 | 1.9174 | .4158 | -.0008 | 2.2926 | -1.3242 | -.2017 | 1.8000 |
| 2516 | 14.2641 | 2.5007 | -1.1488 | -.0998 | 2.0783 | .4957 | .0936 | 2.5168 | -1.2294 | -.1072 | 1.8000 |
| 2517 | 16.2641 | 2.7361 | -1.0668 | -.0206 | 2.2473 | .5904 | .1763 | 2.7458 | -1.1183 | -.0245 | 1.8000 |
| 2518 | 18.2532 | 2.9377 | -.9344 | .0609 | 2.3896 | .7072 | .2583 | 2.9472 | -.9832 | .0575 | 1.8000 |
| 2519 | 20.2612 | 3.0766 | -.7734 | .1354 | 2.4699 | .8479 | .3331 | 3.0863 | -.8220 | .1323 | 1.8000 |
| 2520 | 21.8436 | 3.1924 | -.6387 | .2062 | 2.5367 | .9680 | .4044 | 3.2010 | -.6842 | .2036 | 1.8000 |
| 2521 | .0544 | 1.0154 | -1.5814 | -.6936 | 1.0138 | .1783 | -.4936 | 1.0154 | -1.6017 | -.6945 | 1.8000 |
| 2522 | .0178 | .2521 | .0877 | -.2298 | .2521 | .0474 | -.2298 | .2521 | .0803 | -.2298 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 149

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2525 | .166 | 1949 | .01 | .00 | 100450 | .3013 | .0843 | -.1129 | -.0007 | .0004 | -.0048 |
| 2526 | .166 | 1935 | -1.87 | -.00 | 100460 | .1451 | .0997 | -.1715 | -.0019 | .0005 | -.0048 |
| 2527 | .166 | 1942 | .04 | -.00 | 100450 | .3061 | .0849 | -.1091 | -.0007 | .0008 | -.0046 |
| 2528 | .166 | 1939 | 1.96 | -.00 | 100453 | .4692 | .0694 | -.0480 | -.0017 | .0003 | -.0009 |
| 2529 | .166 | 1935 | 3.91 | -.00 | 100453 | .6348 | .0541 | .0246 | -.0020 | .0005 | .0006 |
| 2530 | .166 | 1935 | 5.91 | -.00 | 100464 | .7878 | .0330 | .1037 | -.0020 | .0002 | .0031 |
| 2531 | .166 | 1935 | 7.95 | -.00 | 100450 | .9341 | .0124 | .1797 | -.0024 | .0002 | .0061 |
| 2532 | .166 | 1932 | 10.02 | -.00 | 100453 | 1.0763 | -.0071 | .2622 | -.0012 | .0003 | .0023 |
| 2533 | .165 | 1925 | 12.11 | -.00 | 100460 | 1.2194 | -.0363 | .3443 | -.0019 | -.0003 | .0051 |
| 2534 | .166 | 1942 | 14.21 | -.00 | 100454 | 1.3595 | -.0645 | .4091 | -.0017 | .0001 | .0041 |
| 2535 | .166 | 1939 | 16.21 | .00 | 100457 | 1.4927 | -.0907 | .4822 | -.0017 | -.0006 | -.0030 |
| 2536 | .166 | 1929 | 18.20 | -.00 | 100453 | 1.6465 | -.1137 | .5584 | -.0011 | -.0008 | .0075 |
| 2537 | .165 | 1925 | 20.21 | -.00 | 100460 | 1.7832 | -.1200 | .6378 | -.0004 | .0003 | .0010 |
| 2538 | .166 | 1929 | 21.72 | -.00 | 100457 | 1.8873 | -.1229 | .7021 | .0005 | .0005 | -.0032 |
| 2539 | .166 | 1949 | .02 | .00 | 100440 | .3049 | .0920 | -.1104 | -.0005 | .0013 | -.0137 |

TEST 995 RUN 149

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2525 | .0142 | 0.0000 | .9776 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0216 | .0076 |
| 2526 | -1.8677 | 0.0000 | .9783 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0210 | .0076 |
| 2527 | .0426 | 0.0000 | .9779 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0075 |
| 2528 | 1.9585 | 0.0000 | .9795 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0075 |
| 2529 | 3.9060 | 0.0000 | .9795 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0075 |
| 2530 | 5.9059 | 0.0000 | .9798 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0195 | .0074 |
| 2531 | 7.9463 | 0.0000 | .9806 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0184 | .0076 |
| 2532 | 10.0155 | 0.0000 | .9802 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0189 | .0077 |
| 2533 | 12.1122 | 0.0000 | .9806 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0078 |
| 2534 | 14.2069 | 0.0000 | .9809 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0178 | .0078 |
| 2535 | 16.2113 | 0.0000 | .9802 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0078 |
| 2536 | 18.2028 | 0.0000 | .9799 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0186 | .0081 |
| 2537 | 20.2078 | .0403 | .9792 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0190 | .0082 |
| 2538 | 21.7245 | 0.0000 | .9800 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0181 | .0084 |
| 2539 | .0215 | 0.0000 | .9797 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0196 | .0075 |

TEST 995 RUN 149

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2525 | .0142 | .3013 | .0844 | -.1129 | .3013 | .0552 | -.1129 | .3013 | .0768 | -.1129 | 1.0000 |
| 2526 | -1.8677 | .1483 | .0949 | -.1715 | .1483 | .0663 | -.1715 | .1483 | .0873 | -.1715 | 1.0000 |
| 2527 | .0426 | .3061 | .0851 | -.1091 | .3061 | .0563 | -.1091 | .3061 | .0776 | -.1091 | 1.0000 |
| 2528 | 1.9585 | .4665 | .0854 | -.0480 | .4665 | .0581 | -.0480 | .4665 | .0779 | -.0480 | 1.0000 |
| 2529 | 3.9060 | .6296 | .0972 | .0246 | .6296 | .0780 | .0246 | .6296 | .0898 | .0246 | 1.0000 |
| 2530 | 5.9059 | .7803 | .1139 | .1037 | .7803 | .0870 | .1037 | .7803 | .1065 | .1037 | 1.0000 |
| 2531 | 7.9463 | .9234 | .1414 | .1797 | .9234 | .1155 | .1797 | .9234 | .1339 | .1797 | 1.0000 |
| 2532 | 10.0155 | 1.0611 | .1801 | .2622 | 1.0611 | .1536 | .2622 | 1.0611 | .1725 | .2622 | 1.0000 |
| 2533 | 12.1122 | 1.1999 | .2204 | .3443 | 1.1999 | .1943 | .3443 | 1.1999 | .2125 | .3443 | 1.0000 |
| 2534 | 14.2069 | 1.3338 | .2711 | .4091 | 1.3338 | .2455 | .4091 | 1.3338 | .2633 | .4091 | 1.0000 |
| 2535 | 16.2113 | 1.4587 | .3296 | .4822 | 1.4587 | .3035 | .4822 | 1.4587 | .3218 | .4822 | 1.0000 |
| 2536 | 18.2028 | 1.5996 | .4063 | .5584 | 1.5996 | .3797 | .5584 | 1.5996 | .3982 | .5584 | 1.0000 |
| 2537 | 20.2078 | 1.7148 | .5033 | .6378 | 1.7148 | .4761 | .6378 | 1.7148 | .4951 | .6378 | 1.0000 |
| 2538 | 21.7245 | 1.7988 | .5844 | .7021 | 1.7988 | .5580 | .7021 | 1.7988 | .5761 | .7021 | 1.0000 |
| 2539 | .0215 | .3049 | .0921 | -.1104 | .3049 | .0650 | -.1104 | .3049 | .0845 | -.1104 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 150

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2540 | .166 | 1942 | .01 | -.00 | 100443 | .3061 | .0931 | -.1093 | -.0007 | .0008 | -.0023 |
| 2541 | .166 | 1942 | .01 | -.00 | 100433 | .2967 | .0907 | -.1081 | -.0002 | .0007 | -.0002 |
| 2542 | .166 | 1949 | .05 | -.00 | 100447 | 1.0522 | -1.5611 | -.5652 | .0021 | .0004 | .0121 |
| 2543 | .167 | 1955 | -1.83 | -.00 | 100447 | .8847 | -1.5533 | -.6232 | .0025 | .0011 | -.0008 |
| 2544 | .166 | 1945 | .08 | -.00 | 100447 | 1.0620 | -1.5797 | -.5714 | .0010 | .0006 | .0046 |
| 2545 | .166 | 1945 | 2.01 | -.00 | 100443 | 1.2220 | -1.5586 | -.4997 | .0014 | .0012 | .0045 |
| 2546 | .167 | 1962 | 3.94 | -.00 | 100440 | 1.3947 | -1.5704 | -.4271 | .0003 | .0004 | .0059 |
| 2547 | .167 | 1965 | 5.96 | -.00 | 100440 | 1.5645 | -1.5933 | -.3522 | .0014 | .0008 | .0048 |
| 2548 | .167 | 1955 | 7.98 | -.00 | 100457 | 1.7357 | -1.6306 | -.2819 | .0013 | .0004 | .0061 |
| 2549 | .167 | 1965 | 10.06 | -.00 | 100450 | 1.8847 | -1.6490 | -.2081 | .0011 | -.0001 | .0053 |
| 2550 | .167 | 1952 | 12.16 | -.00 | 100457 | 2.0512 | -1.6958 | -.1229 | .0008 | -.0003 | .0070 |
| 2551 | .166 | 1942 | 14.27 | -.00 | 100474 | 2.2253 | -1.7402 | -.0574 | .0021 | -.0005 | .0078 |
| 2552 | .166 | 1942 | 16.26 | -.00 | 100477 | 2.3800 | -1.7782 | .0065 | .0007 | -.0018 | .0033 |
| 2553 | .166 | 1939 | 18.26 | .00 | 100494 | 2.4979 | -1.7269 | .0996 | .0004 | -.0031 | -.0006 |
| 2554 | .166 | 1945 | 20.25 | -.00 | 100477 | 2.6473 | -1.7161 | .1722 | .0011 | -.0016 | .0046 |
| 2555 | .167 | 1955 | 21.88 | -.00 | 100477 | 2.7536 | -1.7109 | .2312 | .0020 | -.0014 | .0049 |
| 2556 | .166 | 1935 | .06 | -.00 | 100477 | 1.0554 | -1.5706 | -.5698 | .0018 | .0009 | .0067 |
| 2557 | .166 | 1939 | .02 | -.00 | 100430 | .3054 | .0847 | -.1109 | -.0000 | .0003 | .0007 |
| 2558 | .166 | 1945 | .01 | -.00 | 100423 | .3055 | .0846 | -.1108 | -.0001 | .0005 | -.0026 |

TEST 995 RUN 150

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2540 | .0147 | 1.3295 | .9801 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0192 | .0075 |
| 2541 | .0118 | 0.0000 | .9799 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0194 | .0072 |
| 2542 | .0460 | 28.5038 | 2.8185 | 20.2812 | 1.7412 | 1.7607 | 0.0000 | -1.7476 | .0136 |
| 2543 | -1.8296 | 28.6186 | 2.8287 | 20.2045 | 1.7461 | 1.7658 | 0.0000 | -1.7505 | .0135 |
| 2544 | .0834 | 28.6825 | 2.8369 | 20.1420 | 1.7607 | 1.7805 | 0.0000 | -1.7682 | .0135 |
| 2545 | 2.0081 | 28.1965 | 2.7887 | 20.5073 | 1.7197 | 1.7390 | 0.0000 | -1.7207 | .0140 |
| 2546 | 3.9445 | 28.2574 | 2.7984 | 20.4337 | 1.7132 | 1.7324 | 0.0000 | -1.7124 | .0146 |
| 2547 | 5.9602 | 28.3553 | 2.8061 | 20.3756 | 1.7176 | 1.7369 | 0.0000 | -1.7116 | .0151 |
| 2548 | 7.9842 | 28.4244 | 2.8096 | 20.3491 | 1.7324 | 1.7518 | 0.0000 | -1.7164 | .0161 |
| 2549 | 10.0594 | 28.4648 | 2.8172 | 20.2911 | 1.7276 | 1.7470 | 0.0000 | -1.7051 | .0171 |
| 2550 | 12.1644 | 28.5268 | 2.8245 | 20.2360 | 1.7456 | 1.7652 | 0.0000 | -1.7112 | .0184 |
| 2551 | 14.2651 | 28.6348 | 2.8388 | 20.1280 | 1.7664 | 1.7863 | 0.0000 | -1.7188 | .0202 |
| 2552 | 16.2552 | 28.7332 | 2.8465 | 20.0693 | 1.7747 | 1.7946 | 0.0000 | -1.7098 | .0215 |
| 2553 | 18.2633 | 28.0067 | 2.7696 | 20.6515 | 1.7129 | 1.7321 | 0.0000 | -1.6239 | .0234 |
| 2554 | 20.2510 | 28.1104 | 2.7829 | 20.5507 | 1.7164 | 1.7357 | 0.0000 | -1.6106 | .0248 |
| 2555 | 21.8766 | 28.2360 | 2.7967 | 20.4464 | 1.7199 | 1.7393 | 0.0000 | -1.5973 | .0259 |
| 2556 | .0572 | 28.4333 | 2.8187 | 20.2799 | 1.7562 | 1.7759 | 0.0000 | -1.7602 | .0136 |
| 2557 | .0169 | 0.0000 | .9643 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0345 | .0075 |
| 2558 | .0100 | 0.0000 | .9655 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0332 | .0075 |

TEST 995 RUN 150

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2540 | .0147 | .3061 | .0931 | -.1093 | .3061 | .0665 | -.1093 | .3061 | .0856 | -.1093 | 1.0000 |
| 2541 | .0118 | .2967 | .0907 | -.1081 | .2967 | .0641 | -.1081 | .2967 | .0835 | -.1081 | 1.0000 |
| 2542 | .0460 | 1.0535 | -1.5603 | -.5652 | 1.0521 | .1672 | -.3687 | 1.0535 | -1.6128 | -.5695 | 1.8000 |
| 2543 | -1.8296 | .8346 | -1.5807 | -.6232 | .8904 | .1511 | -.4262 | .8336 | -1.6280 | -.6271 | 1.8000 |
| 2544 | .0834 | 1.0643 | -1.5782 | -.5714 | 1.0618 | .1690 | -.3728 | 1.0644 | -1.6110 | -.5736 | 1.8000 |
| 2545 | 2.0081 | 1.2759 | -1.5148 | -.4997 | 1.2156 | .1898 | -.3057 | 1.2780 | -1.5892 | -.5065 | 1.8000 |
| 2546 | 3.9445 | 1.4994 | -1.4708 | -.4271 | 1.3816 | .2238 | -.2338 | 1.5040 | -1.5520 | -.4346 | 1.8000 |
| 2547 | 5.9602 | 1.7215 | -1.4222 | -.3522 | 1.5431 | .2710 | -.1585 | 1.7280 | -1.4994 | -.3593 | 1.8000 |
| 2548 | 7.9842 | 1.9454 | -1.3737 | -.2819 | 1.7047 | .3258 | -.0864 | 1.9520 | -1.4369 | -.2873 | 1.8000 |
| 2549 | 10.0594 | 2.1438 | -1.2944 | -.2001 | 1.8420 | .3895 | -.0052 | 2.1529 | -1.3631 | -.2060 | 1.8000 |
| 2550 | 12.1644 | 2.3625 | -1.2255 | -.1229 | 1.9947 | .4625 | .0740 | 2.3697 | -1.2775 | -.1268 | 1.8000 |
| 2551 | 14.2651 | 2.5855 | -1.1382 | -.0574 | 2.1502 | .5536 | .1419 | 2.5888 | -1.1715 | -.0589 | 1.8000 |
| 2552 | 16.2552 | 2.7827 | -1.0409 | .0085 | 2.2859 | .6413 | .2067 | 2.7841 | -1.0675 | .0079 | 1.8000 |
| 2553 | 18.2633 | 2.9132 | -.8571 | .0996 | 2.3765 | .7461 | .2928 | 2.9343 | -.9442 | .0920 | 1.8000 |
| 2554 | 20.2510 | 3.0777 | -.6937 | .1722 | 2.4636 | .8918 | .3658 | 3.0997 | -.7782 | .1650 | 1.8000 |
| 2555 | 21.8766 | 3.1928 | -.5617 | .2312 | 2.5519 | 1.0085 | .4253 | 3.2151 | -.6433 | .2245 | 1.8000 |
| 2556 | .0572 | 1.0569 | -1.5695 | -.5698 | 1.0552 | .1731 | -.3716 | 1.0570 | -1.6069 | -.5725 | 1.8000 |
| 2557 | .0169 | .3054 | .0848 | -.1109 | .3054 | .0428 | -.1109 | .3054 | .0773 | -.1109 | 1.0000 |
| 2558 | .0100 | .3055 | .0847 | -.1108 | .3055 | .0440 | -.1108 | .3055 | .0772 | -.1108 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 151

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2561 | .166 | 1939 | .03 | -.00 | 100437 | .3438 | .1287 | .0693 | -.0011 | .0018 | .0124 |
| 2562 | .166 | 1932 | -1.85 | -.00 | 100443 | .1904 | .1257 | .0150 | -.0020 | -.0000 | -.0041 |
| 2563 | .166 | 1942 | .05 | -.00 | 100437 | .3483 | .1193 | .0729 | -.0019 | .0000 | .0021 |
| 2564 | .166 | 1935 | 1.97 | -.00 | 100450 | .5108 | .1163 | .1317 | -.0020 | .0002 | .0009 |
| 2565 | .166 | 1939 | 3.93 | -.00 | 100453 | .6655 | .1067 | .1804 | -.0019 | .0002 | .0018 |
| 2566 | .167 | 1955 | 5.93 | -.00 | 100450 | .8040 | .0844 | .2164 | -.0014 | .0005 | .0002 |
| 2567 | .166 | 1942 | 7.94 | -.00 | 100457 | .9417 | .0674 | .2844 | -.0015 | -.0000 | -.0016 |
| 2568 | .166 | 1932 | 10.02 | -.00 | 100470 | 1.0799 | .0481 | .3546 | -.0010 | .0001 | .0001 |
| 2569 | .166 | 1939 | 12.16 | -.00 | 100467 | 1.2323 | .0241 | .4325 | -.0018 | -.0003 | .0040 |
| 2570 | .167 | 1958 | 14.22 | -.00 | 100454 | 1.3944 | .0002 | .5098 | -.0034 | -.0005 | .0037 |
| 2571 | .166 | 1949 | 16.22 | -.00 | 100460 | 1.5389 | -.0193 | .5922 | -.0023 | -.0009 | .0022 |
| 2572 | .166 | 1939 | 18.24 | -.00 | 100477 | 1.6733 | -.0347 | .6636 | -.0011 | -.0009 | .0008 |
| 2573 | .166 | 1939 | 20.19 | -.00 | 100474 | 1.8284 | -.0411 | .7402 | -.0082 | -.0003 | -.0024 |
| 2574 | .166 | 1949 | 21.87 | -.00 | 100474 | 1.9412 | -.0440 | .7975 | .0082 | .0006 | -.0018 |
| 2575 | .167 | 1968 | .04 | -.00 | 100461 | .3403 | .1286 | .0751 | -.0011 | .0002 | -.0027 |

TEST 995 RUN 151

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2561 | .0276 | 0.0000 | .9777 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0215 | .0079 |
| 2562 | -1.8511 | 0.0000 | .9779 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0214 | .0078 |
| 2563 | .0467 | 0.0000 | .9784 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0209 | .0079 |
| 2564 | 1.9738 | 0.0000 | .9790 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0203 | .0080 |
| 2565 | 3.9302 | 0.0000 | .9796 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0081 |
| 2566 | 5.9268 | 0.0000 | .9799 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0192 | .0078 |
| 2567 | 7.9419 | 0.0000 | .9794 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0078 |
| 2568 | 10.0189 | 0.0000 | .9804 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0188 | .0079 |
| 2569 | 12.1626 | 0.0000 | .9804 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0185 | .0079 |
| 2570 | 14.2177 | 0.0000 | .9802 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0082 |
| 2571 | 16.2226 | 0.0000 | .9802 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0182 | .0085 |
| 2572 | 18.2370 | 0.0000 | .9795 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0188 | .0089 |
| 2573 | 20.1929 | 0.0000 | .9791 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0189 | .0093 |
| 2574 | 21.8710 | 0.0000 | .9788 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0189 | .0095 |
| 2575 | .0443 | 0.0000 | .9816 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0175 | .0078 |

TEST 995 RUN 151

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2561 | .0276 | .3438 | .1209 | .0693 | .3438 | .0914 | .0693 | .3438 | .1129 | .0693 | 1.0000 |
| 2562 | -1.8511 | .1943 | .1195 | .0150 | .1943 | .0983 | .0150 | .1943 | .1117 | .0150 | 1.0000 |
| 2563 | .0467 | .3482 | .1196 | .0729 | .3482 | .0988 | .0729 | .3482 | .1117 | .0729 | 1.0000 |
| 2564 | 1.9738 | .5065 | .1339 | .1317 | .5065 | .1055 | .1317 | .5065 | .1259 | .1317 | 1.0000 |
| 2565 | 3.9302 | .6566 | .1520 | .1804 | .6566 | .1243 | .1804 | .6566 | .1439 | .1804 | 1.0000 |
| 2566 | 5.9268 | .7910 | .1670 | .2164 | .7910 | .1488 | .2164 | .7910 | .1592 | .2164 | 1.0000 |
| 2567 | 7.9419 | .9233 | .1969 | .2844 | .9233 | .1694 | .2844 | .9233 | .1891 | .2844 | 1.0000 |
| 2568 | 10.0189 | 1.0551 | .2352 | .3546 | 1.0551 | .2086 | .3546 | 1.0551 | .2274 | .3546 | 1.0000 |
| 2569 | 12.1626 | 1.1996 | .2832 | .4325 | 1.1996 | .2568 | .4325 | 1.1996 | .2753 | .4325 | 1.0000 |
| 2570 | 14.2177 | 1.3516 | .3427 | .5098 | 1.3516 | .3162 | .5098 | 1.3516 | .3346 | .5098 | 1.0000 |
| 2571 | 16.2226 | 1.4830 | .4114 | .5922 | 1.4830 | .3846 | .5922 | 1.4830 | .4028 | .5922 | 1.0000 |
| 2572 | 18.2370 | 1.6001 | .4907 | .6636 | 1.6001 | .4630 | .6636 | 1.6001 | .4818 | .6636 | 1.0000 |
| 2573 | 20.1929 | 1.7302 | .5925 | .7402 | 1.7302 | .5643 | .7402 | 1.7302 | .5833 | .7402 | 1.0000 |
| 2574 | 21.8710 | 1.8179 | .6823 | .7975 | 1.8179 | .6548 | .7975 | 1.8179 | .6729 | .7975 | 1.0000 |
| 2575 | .0443 | .3402 | .1289 | .0751 | .3402 | .1036 | .0751 | .3402 | .1211 | .0751 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 152

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2576 | .168 | 1982 | .04 | -.00 | 100464 | .3368 | .1272 | .0736 | -.0009 | .0003 | -.0016 |
| 2577 | .167 | 1955 | .03 | -.00 | 100474 | .3426 | .1288 | .0749 | -.0011 | .0003 | -.0016 |
| 2578 | .169 | 2008 | .08 | -.00 | 100481 | 1.0483 | -1.4664 | -.3594 | .0010 | .0015 | .0011 |
| 2579 | .169 | 2011 | -1.81 | -.00 | 100481 | .8827 | -1.4700 | -.4162 | .0007 | .0016 | -.0061 |
| 2580 | .168 | 1992 | .11 | -.00 | 100491 | 1.0643 | -1.5033 | -.3723 | .0009 | .0013 | .0034 |
| 2581 | .168 | 1982 | 2.03 | -.00 | 100495 | 1.2431 | -1.5254 | -.3196 | .0004 | .0012 | .0047 |
| 2582 | .167 | 1965 | 3.97 | -.00 | 100484 | 1.4082 | -1.5301 | -.2597 | -.0006 | .0009 | .0059 |
| 2583 | .169 | 2015 | 5.95 | -.00 | 100481 | 1.5056 | -1.4908 | -.2016 | .0009 | .0017 | .0030 |
| 2584 | .168 | 1988 | 7.99 | -.00 | 100501 | 1.6616 | -1.5332 | -.1505 | .0008 | .0017 | .0030 |
| 2585 | .167 | 1972 | 10.06 | -.00 | 100491 | 1.8349 | -1.5681 | -.0821 | .0004 | .0011 | .0020 |
| 2586 | .165 | 1922 | 12.16 | -.00 | 100507 | 2.0339 | -1.6394 | -.0144 | .0002 | .0004 | .0067 |
| 2587 | .169 | 1998 | 14.27 | -.00 | 100491 | 2.1424 | -1.6061 | .0619 | -.0011 | -.0004 | .0061 |
| 2588 | .166 | 1932 | 16.27 | -.00 | 100497 | 2.3705 | -1.6858 | .1408 | -.0003 | -.0014 | .0101 |
| 2589 | .167 | 1955 | 18.28 | -.00 | 100488 | 2.5183 | -1.6805 | .2155 | .0001 | -.0020 | .0066 |
| 2590 | .167 | 1955 | 20.28 | -.00 | 100494 | 2.6779 | -1.6873 | .2856 | -.0002 | -.0011 | .0073 |
| 2591 | .167 | 1968 | 21.92 | -.00 | 100488 | 2.7854 | -1.6632 | .3480 | .0015 | -.0006 | .0016 |
| 2592 | .166 | 1929 | .08 | -.00 | 100497 | 1.0895 | -1.5472 | -.3805 | .0015 | .0014 | .0033 |
| 2593 | .166 | 1949 | .04 | -.00 | 100474 | .3492 | .1072 | .0695 | -.0012 | .0003 | -.0015 |

TEST 995 RUN 152

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2576 | .0441 | 0.0000 | .9825 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0165 | .0078 |
| 2577 | .0280 | .0591 | .9815 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0177 | .0079 |
| 2578 | .0776 | 28.5914 | 2.8185 | 20.2814 | 1.6820 | 1.7009 | 0.0000 | -1.6964 | .0140 |
| 2579 | -1.8086 | 28.6666 | 2.8281 | 20.2086 | 1.6881 | 1.7071 | 0.0000 | -1.7017 | .0135 |
| 2580 | .1078 | 28.7682 | 2.8437 | 20.0908 | 1.7177 | 1.7370 | 0.0000 | -1.7343 | .0140 |
| 2581 | 2.0255 | 28.9035 | 2.8547 | 20.0073 | 1.7379 | 1.7574 | 0.0000 | -1.7524 | .0148 |
| 2582 | 3.9691 | 28.5785 | 2.8148 | 20.3093 | 1.7208 | 1.7401 | 0.0000 | -1.7258 | .0158 |
| 2583 | 5.9518 | 28.4822 | 2.8029 | 20.3998 | 1.6654 | 1.6841 | 0.0000 | -1.6672 | .0163 |
| 2584 | 7.9945 | 28.5765 | 2.8045 | 20.3874 | 1.6905 | 1.7095 | 0.0000 | -1.6839 | .0172 |
| 2585 | 10.0584 | 28.6869 | 2.8114 | 20.3355 | 1.7076 | 1.7268 | 0.0000 | -1.6946 | .0185 |
| 2586 | 12.1620 | 28.8195 | 2.8194 | 20.2750 | 1.7569 | 1.7767 | 0.0000 | -1.7336 | .0199 |
| 2587 | 14.2720 | 28.9022 | 2.8309 | 20.1877 | 1.6960 | 1.7150 | 0.0000 | -1.6636 | .0206 |
| 2588 | 16.2656 | 28.9327 | 2.8241 | 20.2393 | 1.7538 | 1.7735 | 0.0000 | -1.6979 | .0225 |
| 2589 | 18.2817 | 28.9603 | 2.8255 | 20.2286 | 1.7349 | 1.7543 | 0.0000 | -1.6807 | .0240 |
| 2590 | 20.2815 | 29.0462 | 2.8324 | 20.1764 | 1.7406 | 1.7602 | 0.0000 | -1.6469 | .0255 |
| 2591 | 21.9161 | 28.9367 | 2.8275 | 20.2134 | 1.7224 | 1.7417 | 0.0000 | -1.6135 | .0268 |
| 2592 | .0819 | 28.9669 | 2.8333 | 20.1693 | 1.7608 | 1.7806 | 0.0000 | -1.7808 | .0143 |
| 2593 | .0352 | 0.0000 | .9857 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0138 | .0079 |

TEST 995 RUN 152

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2576 | .0441 | .3367 | .1274 | .0736 | .3367 | .1032 | .0736 | .3367 | .1197 | .0736 | 1.0000 |
| 2577 | .0280 | .3425 | .1289 | .0749 | .3425 | .1033 | .0749 | .3425 | .1210 | .0749 | 1.0000 |
| 2578 | .0776 | 1.0503 | -1.4649 | -.3594 | 1.0480 | .2031 | -.1697 | 1.0504 | -1.5769 | -.3705 | 1.8000 |
| 2579 | -1.8086 | .8358 | -1.4971 | -.4162 | .8891 | .1767 | -.2258 | .8329 | -1.6024 | -.4266 | 1.8000 |
| 2580 | .1078 | 1.0672 | -1.5013 | -.3723 | 1.0639 | .2024 | -.1785 | 1.0673 | -1.5776 | -.3793 | 1.8000 |
| 2581 | 2.0255 | 1.2963 | -1.4805 | -.3196 | 1.2349 | .2415 | -.1235 | 1.2978 | -1.5374 | -.3243 | 1.8000 |
| 2582 | 3.9691 | 1.5188 | -1.4290 | -.2597 | 1.3917 | .2719 | -.0656 | 1.5149 | -1.5038 | -.2664 | 1.8000 |
| 2583 | 5.9518 | 1.6521 | -1.3266 | -.2016 | 1.4794 | .3135 | -.0137 | 1.6640 | -1.4569 | -.2145 | 1.8000 |
| 2584 | 7.9945 | 1.8587 | -1.2872 | -.1505 | 1.6236 | .3696 | .0402 | 1.8711 | -1.3931 | -.1606 | 1.8000 |
| 2585 | 10.0584 | 2.0806 | -1.2235 | -.0821 | 1.7823 | .4394 | .1106 | 2.0932 | -1.3132 | -.0902 | 1.8000 |
| 2586 | 12.1620 | 2.3336 | -1.1741 | -.0144 | 1.9634 | .5235 | .1838 | 2.3385 | -1.2166 | -.0170 | 1.8000 |
| 2587 | 14.2720 | 2.4727 | -1.0303 | .0619 | 2.0546 | .5928 | .2532 | 2.4934 | -1.1323 | .0524 | 1.8000 |
| 2588 | 16.2656 | 2.7477 | -.9543 | .1408 | 2.2565 | .7867 | .3386 | 2.7551 | -1.0020 | .1378 | 1.8000 |
| 2589 | 18.2817 | 2.9184 | -.8057 | .2155 | 2.3742 | .8176 | .4113 | 2.9325 | -.8725 | .2104 | 1.8000 |
| 2590 | 20.2815 | 3.0967 | -.6545 | .2856 | 2.4934 | .9527 | .4820 | 3.1104 | -.7169 | .2812 | 1.8000 |
| 2591 | 21.9161 | 3.2049 | -.5633 | .3480 | 2.5621 | 1.0677 | .5423 | 3.2264 | -.5836 | .3415 | 1.8000 |
| 2592 | .0819 | 1.0918 | -1.5457 | -.3805 | 1.0892 | .2008 | -.1819 | 1.0918 | -1.5792 | -.3827 | 1.8000 |
| 2593 | .0352 | .3491 | .1074 | .0695 | .3491 | .0858 | .0695 | .3491 | .0996 | .0695 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 153

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2596 | .166 | 1942 | .01 | -.00 | 100491 | .2369 | .1168 | -.3070 | -.0020 | .0009 | .0027 |
| 2597 | .165 | 1925 | -1.87 | -.00 | 100501 | .0841 | .1392 | -.3560 | -.0019 | .0002 | -.0001 |
| 2598 | .167 | 1952 | .02 | -.00 | 100484 | .2392 | .1174 | -.3054 | -.0017 | .0002 | -.0010 |
| 2599 | .168 | 1982 | 1.92 | -.00 | 100484 | .3770 | .0979 | -.2459 | -.0002 | .0006 | -.0004 |
| 2600 | .166 | 1942 | 3.89 | .00 | 100506 | .5313 | .0671 | -.1839 | -.0018 | -.0003 | -.0034 |
| 2601 | .169 | 2018 | 5.89 | -.00 | 100475 | .6510 | .0392 | -.1067 | -.0007 | .0006 | -.0021 |
| 2602 | .169 | 2011 | 7.92 | -.00 | 100498 | .7782 | .0062 | -.0301 | -.0011 | .0007 | .0007 |
| 2603 | .168 | 1985 | 9.99 | -.00 | 100495 | .9276 | -.0270 | .0451 | -.0015 | .0000 | .0021 |
| 2604 | .168 | 1982 | 12.08 | -.00 | 100498 | 1.0661 | -.0640 | .1252 | -.0016 | -.0002 | .0013 |
| 2605 | .166 | 1949 | 14.19 | -.00 | 100494 | 1.2081 | -.1028 | .2072 | -.0006 | -.0004 | .0059 |
| 2606 | .169 | 2001 | 16.18 | -.00 | 100512 | 1.2921 | -.1302 | .2788 | -.0004 | -.0007 | .0036 |
| 2607 | .168 | 1995 | 18.21 | -.00 | 100491 | 1.4515 | -.1522 | .3537 | .0006 | -.0005 | -.0008 |
| 2608 | .167 | 1962 | 20.19 | -.00 | 100491 | 1.6141 | -.1510 | .4339 | -.0000 | -.0006 | -.0003 |
| 2609 | .168 | 1975 | 21.82 | .00 | 100505 | 1.6744 | -.1448 | .4972 | -.0008 | -.0010 | -.0109 |
| 2610 | .169 | 1998 | .04 | -.00 | 100468 | .2344 | .1252 | -.3027 | -.0015 | .0002 | -.0012 |

TEST 995 RUN 153

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2596 | .0074 | 0.0000 | .9780 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0212 | .0070 |
| 2597 | -1.8659 | 0.0000 | .9790 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0205 | .0077 |
| 2598 | .0238 | 0.0000 | .9784 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0208 | .0078 |
| 2599 | 1.9201 | 0.0000 | .9782 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0067 |
| 2600 | 3.8867 | 0.0000 | .9793 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0199 | .0067 |
| 2601 | 5.8928 | 0.0000 | .9791 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0066 |
| 2602 | 7.9227 | 0.0000 | .9794 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0190 | .0065 |
| 2603 | 9.9858 | 0.0000 | .9798 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0188 | .0066 |
| 2604 | 12.0795 | 0.0000 | .9787 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0067 |
| 2605 | 14.1870 | 0.0000 | .9804 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0070 |
| 2606 | 16.1756 | 0.0000 | .9798 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0182 | .0070 |
| 2607 | 18.2119 | 0.0000 | .9791 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0187 | .0074 |
| 2608 | 20.1921 | 0.0000 | .9780 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0074 |
| 2609 | 21.8157 | 0.0000 | .9774 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0199 | .0073 |
| 2610 | .0351 | 0.0000 | .9800 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0188 | .0070 |

TEST 995 RUN 153

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2596 | .0074 | .2368 | .1161 | -.3070 | .2368 | .0878 | -.3078 | .2368 | .1090 | -.3070 | 1.0000 |
| 2597 | -1.8659 | .0886 | .1364 | -.3560 | .0886 | .1082 | -.3568 | .0886 | .1287 | -.3560 | 1.0000 |
| 2598 | .0238 | .2392 | .1175 | -.3054 | .2392 | .0898 | -.3054 | .2392 | .1105 | -.3054 | 1.0000 |
| 2599 | 1.9201 | .3736 | .1105 | -.2459 | .3736 | .0832 | -.2459 | .3736 | .1038 | -.2459 | 1.0000 |
| 2600 | 3.8867 | .5255 | .1030 | -.1839 | .5255 | .0763 | -.1839 | .5255 | .0962 | -.1839 | 1.0000 |
| 2601 | 5.8928 | .6435 | .1058 | -.1067 | .6435 | .0799 | -.1867 | .6435 | .0992 | -.1067 | 1.0000 |
| 2602 | 7.9227 | .7699 | .1134 | -.0301 | .7699 | .0880 | -.0301 | .7699 | .1069 | -.0301 | 1.0000 |
| 2603 | 9.9858 | .9182 | .1343 | .0451 | .9182 | .1089 | .0451 | .9182 | .1277 | .0451 | 1.0000 |
| 2604 | 12.0795 | 1.0559 | .1605 | .1252 | 1.0559 | .1341 | .1252 | 1.0559 | .1537 | .1252 | 1.0000 |
| 2605 | 14.1870 | 1.1965 | .1964 | .2072 | 1.1965 | .1711 | .2072 | 1.1965 | .1894 | .2072 | 1.0000 |
| 2606 | 16.1756 | 1.2773 | .2349 | .2788 | 1.2773 | .2097 | .2788 | 1.2773 | .2279 | .2788 | 1.0000 |
| 2607 | 18.2119 | 1.4264 | .3091 | .3537 | 1.4264 | .2831 | .3537 | 1.4264 | .3017 | .3537 | 1.0000 |
| 2608 | 20.1921 | 1.5671 | .4154 | .4339 | 1.5671 | .3884 | .4339 | 1.5671 | .4081 | .4339 | 1.0000 |
| 2609 | 21.8157 | 1.6083 | .4878 | .4972 | 1.6083 | .4605 | .4972 | 1.6083 | .4885 | .4972 | 1.0000 |
| 2610 | .0351 | .2343 | .1253 | -.3027 | .2343 | .0996 | -.3027 | .2343 | .1183 | -.3027 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 154

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2611 | .167 | 1958 | .01 | -.00 | 100481 | .2334 | .1272 | -.3070 | -.0010 | .0004 | -.0014 |
| 2612 | .167 | 1952 | .00 | -.00 | 100474 | .2392 | .1284 | -.3047 | -.0015 | .0004 | -.0011 |
| 2613 | .166 | 1949 | .03 | -.00 | 100457 | .9782 | -1.5325 | -.7771 | .0007 | .0016 | .0060 |
| 2614 | .165 | 1925 | -1.84 | -.00 | 100467 | .8173 | -1.5358 | -.8317 | .0013 | .0017 | .0066 |
| 2615 | .165 | 1912 | .06 | -.00 | 100480 | .9974 | -1.5708 | -.7872 | .0008 | .0015 | .0095 |
| 2616 | .168 | 1975 | 1.99 | -.00 | 100410 | 1.1295 | -1.5522 | -.7206 | .0012 | .0012 | .0098 |
| 2617 | .166 | 1939 | 3.95 | -.00 | 100443 | 1.3151 | -1.6172 | -.6659 | .0017 | .0008 | .0122 |
| 2618 | .166 | 1929 | 5.93 | -.00 | 100450 | 1.4750 | -1.6584 | -.6001 | .0021 | .0011 | .0089 |
| 2619 | .166 | 1939 | 7.97 | -.00 | 100440 | 1.6392 | -1.6889 | -.5244 | .0013 | .0005 | .0116 |
| 2620 | .166 | 1939 | 10.03 | -.00 | 100437 | 1.7738 | -1.7272 | -.4432 | .0008 | .0003 | .0133 |
| 2621 | .165 | 1919 | 12.14 | -.00 | 100457 | 1.9205 | -1.7875 | -.3690 | -.0010 | -.0007 | .0153 |
| 2622 | .165 | 1906 | 14.23 | -.00 | 100467 | 2.0783 | -1.8415 | -.2908 | .0022 | -.0006 | .0147 |
| 2623 | .166 | 1942 | 16.22 | -.00 | 100426 | 2.2180 | -1.8485 | -.2031 | .0009 | -.0012 | .0161 |
| 2624 | .165 | 1916 | 18.23 | -.00 | 100450 | 2.3359 | -1.8655 | -.1267 | .0031 | -.0017 | .0110 |
| 2625 | .165 | 1925 | 20.23 | -.00 | 100440 | 2.4731 | -1.8669 | -.0628 | .0013 | -.0012 | .0096 |
| 2626 | .166 | 1935 | 21.85 | -.00 | 100426 | 2.5495 | -1.8269 | .0012 | .0041 | .0001 | .0037 |
| 2627 | .165 | 1925 | .05 | -.00 | 100450 | 1.0023 | -1.5953 | -.7973 | .0012 | .0014 | .0092 |
| 2628 | .166 | 1945 | -.00 | -.00 | 100437 | .2420 | .1005 | -.3114 | -.0017 | .0001 | -.0011 |

TEST 995 RUN 154

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2611 | .0093 | 0.0000 | .9801 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0190 | .0071 |
| 2612 | .0029 | 0.0000 | .9799 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0072 |
| 2613 | .0304 | 28.9769 | 2.8284 | 20.2868 | 1.7416 | 1.7611 | 0.0000 | -1.7572 | .0104 |
| 2614 | -1.8409 | 28.9947 | 2.8266 | 20.2199 | 1.7622 | 1.7820 | 0.0000 | -1.7758 | .0107 |
| 2615 | .0609 | 29.0466 | 2.8330 | 20.1716 | 1.7785 | 1.7985 | 0.0000 | -1.7955 | .0104 |
| 2616 | 1.9916 | 29.0899 | 2.8381 | 20.1333 | 1.7288 | 1.7482 | 0.0000 | -1.7410 | .0107 |
| 2617 | 3.9499 | 29.1173 | 2.8424 | 20.1008 | 1.7647 | 1.7846 | 0.0000 | -1.7752 | .0113 |
| 2618 | 5.9283 | 29.0926 | 2.8445 | 20.0847 | 1.7729 | 1.7928 | 0.0000 | -1.7812 | .0120 |
| 2619 | 7.9714 | 29.2052 | 2.8484 | 20.0551 | 1.7724 | 1.7923 | 0.0000 | -1.7680 | .0127 |
| 2620 | 10.0276 | 29.2264 | 2.8526 | 20.0231 | 1.7741 | 1.7941 | 0.0000 | -1.7619 | .0134 |
| 2621 | 12.1394 | 29.2665 | 2.8585 | 19.9787 | 1.7965 | 1.8167 | 0.0000 | -1.7732 | .0142 |
| 2622 | 14.2295 | 29.2772 | 2.8561 | 19.9970 | 1.8100 | 1.8303 | 0.0000 | -1.7682 | .0155 |
| 2623 | 16.2180 | 29.3048 | 2.8626 | 19.9478 | 1.7886 | 1.8086 | 0.0000 | -1.7242 | .0165 |
| 2624 | 18.2317 | 29.3203 | 2.8649 | 19.9307 | 1.8057 | 1.8260 | 0.0000 | -1.7315 | .0191 |
| 2625 | 20.2314 | 29.3336 | 2.8634 | 19.9419 | 1.7972 | 1.8174 | 0.0000 | -1.7002 | .0214 |
| 2626 | 21.8455 | 29.3155 | 2.8611 | 19.9592 | 1.7869 | 1.8069 | 0.0000 | -1.6718 | .0237 |
| 2627 | .0471 | 29.3417 | 2.8591 | 19.9739 | 1.7978 | 1.8180 | 0.0000 | -1.8081 | .0102 |
| 2628 | -.0040 | 0.0000 | .9786 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0071 |

TEST 995 RUN 154

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2611 | .0093 | .2334 | .1273 | -.3070 | .2334 | .1011 | -.3070 | .2334 | .1201 | -.3070 | 1.8000 |
| 2612 | .0029 | .2392 | .1284 | -.3047 | .2392 | .1019 | -.3047 | .2392 | .1212 | -.3047 | 1.8000 |
| 2613 | .0304 | .9791 | -1.5320 | -.7771 | .9781 | .1992 | -.5886 | .9791 | -1.5808 | -.7814 | 1.8000 |
| 2614 | -1.8409 | .7676 | -1.5612 | -.8317 | .8242 | .1894 | -.6329 | .7670 | -1.5897 | -.8337 | 1.8000 |
| 2615 | .0609 | .9991 | -1.5698 | -.7872 | .9972 | .1983 | -.5866 | .9991 | -1.5817 | -.7874 | 1.8000 |
| 2616 | 1.9916 | 1.1827 | -1.5120 | -.7206 | 1.1226 | .2051 | -.5256 | 1.1845 | -1.5739 | -.7264 | 1.8000 |
| 2617 | 3.9499 | 1.4234 | -1.5228 | -.6659 | 1.3818 | .2264 | -.4668 | 1.4244 | -1.5494 | -.6676 | 1.8000 |
| 2618 | 5.9283 | 1.6384 | -1.4971 | -.6001 | 1.4553 | .2543 | -.4001 | 1.6391 | -1.5162 | -.6009 | 1.8000 |
| 2619 | 7.9714 | 1.8575 | -1.4452 | -.5244 | 1.6118 | .2973 | -.3244 | 1.8586 | -1.4655 | -.5252 | 1.8000 |
| 2620 | 10.0276 | 2.0475 | -1.3920 | -.4432 | 1.7386 | .3417 | -.2430 | 2.0485 | -1.4111 | -.4439 | 1.8000 |
| 2621 | 12.1394 | 2.2534 | -1.3437 | -.3698 | 1.8756 | .3985 | -.1663 | 2.2499 | -1.3417 | -.3671 | 1.8000 |
| 2622 | 14.2295 | 2.4672 | -1.2741 | -.2908 | 2.0223 | .4649 | -.0866 | 2.4598 | -1.2605 | -.2874 | 1.8000 |
| 2623 | 16.2180 | 2.6461 | -1.1554 | -.2031 | 2.1487 | .5378 | -.0022 | 2.6459 | -1.1714 | -.2030 | 1.8000 |
| 2624 | 18.2317 | 2.8022 | -1.0410 | -.1267 | 2.2373 | .6549 | .0770 | 2.7942 | -1.0357 | -.1238 | 1.8000 |
| 2625 | 20.2314 | 2.9592 | -.8777 | -.0628 | 2.3377 | .7872 | .1399 | 2.9533 | -.8830 | -.0689 | 1.8000 |
| 2626 | 21.8455 | 3.0463 | -.7478 | .0012 | 2.3814 | .8878 | .2028 | 3.0437 | -.7644 | .0019 | 1.8000 |
| 2627 | .0471 | 1.0036 | -1.5945 | -.7973 | 1.0021 | .1931 | -.5944 | 1.0036 | -1.5869 | -.7953 | 1.8000 |
| 2628 | -.0040 | .2420 | .1005 | -.3114 | .2420 | .0728 | -.3114 | .2420 | .0933 | -.3114 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 156

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2645 | .165 | 1922 | .01 | -.00 | 100606 | .3821 | .0995 | -.1329 | -.0004 | .0007 | -.0017 |
| 2646 | .166 | 1929 | -1.87 | .00 | 100592 | .2308 | .1151 | -.1558 | -.0011 | .0001 | -.0071 |
| 2647 | .166 | 1942 | .04 | .00 | 100572 | .3887 | .1039 | -.1328 | -.0005 | .0004 | -.0110 |
| 2648 | .166 | 1929 | 1.95 | -.00 | 100585 | .5358 | .0810 | -.1110 | -.0009 | .0005 | -.0014 |
| 2649 | .166 | 1932 | 3.91 | -.00 | 100582 | .6807 | .0737 | -.0799 | -.0006 | .0007 | -.0035 |
| 2650 | .166 | 1942 | 5.90 | -.00 | 100579 | .8183 | .0546 | -.0397 | -.0011 | .0006 | -.0041 |
| 2651 | .166 | 1935 | 7.93 | -.00 | 100589 | .9445 | .0313 | -.0013 | .0000 | .0003 | -.0036 |
| 2652 | .166 | 1935 | 9.99 | .00 | 100592 | 1.0586 | .0037 | .0442 | -.0010 | -.0001 | -.0073 |
| 2653 | .166 | 1932 | 12.09 | -.00 | 100602 | 1.1506 | -.0267 | .0932 | -.0022 | -.0005 | .0006 |
| 2654 | .166 | 1949 | 14.17 | -.00 | 100586 | 1.2661 | -.0592 | .1473 | -.0025 | .0002 | -.0017 |
| 2655 | .166 | 1939 | 16.17 | .00 | 100599 | 1.3710 | -.0857 | .2060 | -.0021 | -.0011 | -.0029 |
| 2656 | .165 | 1912 | 18.18 | -.00 | 100629 | 1.4701 | -.0903 | .2588 | -.0019 | -.0006 | -.0048 |
| 2657 | .167 | 1959 | 20.17 | .00 | 100582 | 1.5690 | -.0729 | .3043 | -.0020 | -.0000 | -.0097 |
| 2658 | .165 | 1925 | 21.80 | .00 | 100619 | 1.6714 | -.0490 | .3292 | -.0017 | .0013 | -.0160 |
| 2659 | .166 | 1932 | .2 | -.00 | 100606 | .3849 | .1214 | -.1294 | .0003 | .0003 | -.0021 |

TEST 995 RUN 156

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2645 | .0135 | 0.0000 | .9736 | 25.0502 | 0.0000 | 0.0000 | 0.0000 | .0242 | .0081 |
| 2646 | -1.8721 | 0.0000 | .9750 | 25.0474 | 0.0000 | 0.0000 | 0.0000 | .0228 | .0082 |
| 2647 | .0396 | 0.0000 | .9739 | 25.0496 | 0.0000 | 0.0000 | 0.0000 | .0237 | .0082 |
| 2648 | 1.9533 | 0.0000 | .9749 | 25.0476 | 0.0000 | 0.0000 | 0.0000 | .0229 | .0080 |
| 2649 | 3.9100 | 0.0000 | .9745 | 25.0485 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0079 |
| 2650 | 5.9037 | 0.0000 | .9742 | 25.0489 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0079 |
| 2651 | 7.9277 | 0.0000 | .9742 | 25.0489 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0077 |
| 2652 | 9.9939 | 0.0000 | .9743 | 25.0489 | 0.0000 | 0.0000 | 0.0000 | .0231 | .0077 |
| 2653 | 12.0908 | 0.0000 | .9752 | 25.0472 | 0.0000 | 0.0000 | 0.0000 | .0221 | .0076 |
| 2654 | 14.1748 | 0.0000 | .9752 | 25.0472 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0073 |
| 2655 | 16.1687 | 0.0000 | .9754 | 25.0467 | 0.0000 | 0.0000 | 0.0000 | .0214 | .0068 |
| 2656 | 18.1758 | 0.0000 | .9754 | 25.0467 | 0.0000 | 0.0000 | 0.0000 | .0215 | .0062 |
| 2657 | 20.1692 | 0.0000 | .9717 | 25.0538 | 0.0000 | 0.0000 | 0.0000 | .0239 | .0060 |
| 2658 | 21.8047 | 0.0000 | .9694 | 25.0581 | 0.0000 | 0.0000 | 0.0000 | .0260 | .0072 |
| 2659 | .0231 | 0.0000 | .9753 | 25.0469 | 0.0000 | 0.0000 | 0.0000 | .0225 | .0082 |

TEST 995 RUN 156

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2645 | .0135 | .3821 | .0996 | -.1329 | .3821 | .0673 | -.1329 | .3821 | .0915 | -.1329 | 1.0000 |
| 2646 | -1.8721 | .2344 | .1075 | -.1558 | .2344 | .0765 | -.1558 | .2344 | .0993 | -.1558 | 1.0000 |
| 2647 | .0396 | .3886 | .1041 | -.1328 | .3886 | .0723 | -.1328 | .3886 | .0960 | -.1328 | 1.0000 |
| 2648 | 1.9533 | .5327 | .0992 | -.1110 | .5327 | .0683 | -.1110 | .5327 | .0911 | -.1110 | 1.0000 |
| 2649 | 3.9100 | .6741 | .1200 | -.0799 | .6741 | .0889 | -.0799 | .6741 | .1121 | -.0799 | 1.0000 |
| 2650 | 5.9037 | .8083 | .1385 | -.0397 | .8083 | .1074 | -.0397 | .8083 | .1306 | -.0397 | 1.0000 |
| 2651 | 7.9277 | .9312 | .1613 | -.0013 | .9312 | .1384 | -.0013 | .9312 | .1536 | -.0013 | 1.0000 |
| 2652 | 9.9939 | 1.0419 | .1874 | .0442 | 1.0419 | .1566 | .0442 | 1.0419 | .1797 | .0442 | 1.0000 |
| 2653 | 12.0908 | 1.1307 | .2149 | .0932 | 1.1307 | .1851 | .0932 | 1.1307 | .2072 | .0932 | 1.0000 |
| 2654 | 14.1748 | 1.2421 | .2526 | .1473 | 1.2421 | .2236 | .1473 | 1.2421 | .2453 | .1473 | 1.0000 |
| 2655 | 16.1687 | 1.3407 | .2994 | .2060 | 1.3407 | .2712 | .2060 | 1.3407 | .2927 | .2060 | 1.0000 |
| 2656 | 18.1758 | 1.4249 | .3728 | .2588 | 1.4249 | .3451 | .2588 | 1.4249 | .3666 | .2588 | 1.0000 |
| 2657 | 20.1692 | 1.4979 | .4726 | .3043 | 1.4979 | .4427 | .3043 | 1.4979 | .4666 | .3043 | 1.0000 |
| 2658 | 21.8047 | 1.5701 | .5754 | .3292 | 1.5701 | .5422 | .3292 | 1.5701 | .5681 | .3292 | 1.0000 |
| 2659 | .0231 | .3849 | .1216 | -.1294 | .3849 | .0909 | -.1294 | .3849 | .1134 | -.1294 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 157

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2660 | .166 | 1949 | .02 | -.00 | 100592 | .3837 | .1205 | -.1325 | .0000 | .0005 | -.0020 |
| 2661 | .166 | 1952 | .04 | -.00 | 100596 | .8950 | -.7978 | -.3968 | -.0002 | .0033 | -.0109 |
| 2662 | .166 | 1942 | -1.85 | -.00 | 100609 | .7229 | -.7848 | -.4161 | -.0013 | .0034 | -.0091 |
| 2663 | .166 | 1932 | .06 | -.00 | 100626 | .8939 | -.8003 | -.3960 | -.0004 | .0035 | -.0109 |
| 2664 | .165 | 1929 | 1.97 | .00 | 100633 | 1.0600 | -.0149 | -.3774 | -.0018 | .0030 | -.0140 |
| 2665 | .166 | 1932 | 3.93 | -.00 | 100633 | 1.2142 | -.8301 | -.3492 | -.0012 | .0027 | -.0118 |
| 2666 | .166 | 1942 | 5.92 | -.00 | 100619 | 1.3478 | -.8421 | -.3101 | -.0008 | .0028 | -.0138 |
| 2667 | .166 | 1932 | 7.94 | -.00 | 100629 | 1.4809 | -.8676 | -.2742 | -.0007 | .0029 | -.0106 |
| 2668 | .165 | 1929 | 10.03 | -.00 | 100629 | 1.6143 | -.8957 | -.2367 | -.0013 | .0026 | -.0088 |
| 2669 | .166 | 1949 | 12.12 | -.00 | 100606 | 1.7972 | -1.0376 | -.2239 | -.0011 | .0027 | -.0075 |
| 2670 | .166 | 1935 | 14.21 | .00 | 100623 | 1.9430 | -1.0834 | -.1814 | -.0003 | .0045 | -.0226 |
| 2671 | .166 | 1932 | 16.17 | -.00 | 100623 | 2.0027 | -1.0164 | -.1033 | -.0023 | .0024 | -.0054 |
| 2672 | .165 | 1929 | 18.21 | -.00 | 100626 | 2.1520 | -1.0261 | -.0684 | -.0006 | .0037 | -.0147 |
| 2673 | .166 | 1949 | 20.18 | -.00 | 100606 | 2.2296 | -.9936 | -.0205 | -.0029 | .0045 | -.0210 |
| 2674 | .166 | 1939 | 21.84 | -.00 | 100616 | 2.3125 | -.9742 | .0096 | -.0026 | .0058 | -.0213 |
| 2675 | .166 | 1939 | .05 | .00 | 100616 | .8979 | -.8186 | -.3993 | -.0008 | .0034 | -.0184 |

TEST 995 RUN 157

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CHU,N | CHU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2660 | .0206 | .0719 | .9743 | 25.0489 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0081 |
| 2661 | .0444 | 20.2249 | 2.0155 | 23.0706 | 1.0150 | 1.0308 | 0.0000 | -.9157 | .0119 |
| 2662 | -1.8482 | 20.1190 | 2.0067 | 23.0872 | 1.0129 | 1.0286 | 0.0000 | -.9121 | .0119 |
| 2663 | .0648 | 20.0604 | 2.0044 | 23.0916 | 1.0152 | 1.0309 | 0.0000 | -.9154 | .0119 |
| 2664 | 1.9747 | 19.9614 | 1.9931 | 23.1131 | 1.0090 | 1.0247 | 0.0000 | -.9061 | .0117 |
| 2665 | 3.9307 | 19.8852 | 1.9880 | 23.1228 | 1.0019 | 1.0175 | 0.0000 | -.8983 | .0116 |
| 2666 | 5.9244 | 19.7446 | 1.9759 | 23.1457 | .9873 | 1.0026 | 0.0000 | -.8801 | .0117 |
| 2667 | 7.9441 | 19.6909 | 1.9695 | 23.1579 | .9883 | 1.0036 | 0.0000 | -.8751 | .0117 |
| 2668 | 10.0300 | 19.6225 | 1.9627 | 23.1708 | .9849 | 1.0002 | 0.0000 | -.8654 | .0118 |
| 2669 | 12.1214 | 21.0947 | 2.1126 | 22.8860 | 1.0973 | 1.1144 | 0.0000 | -.9828 | .0124 |
| 2670 | 14.2072 | 21.1104 | 2.1131 | 22.8850 | 1.1076 | 1.1248 | 0.0000 | -.9817 | .0125 |
| 2671 | 16.1657 | 20.0842 | 2.0174 | 23.0669 | 1.0266 | 1.0425 | 0.0000 | -.8905 | .0130 |
| 2672 | 18.2061 | 20.2103 | 2.0276 | 23.0476 | 1.0388 | 1.0549 | 0.0000 | -.8911 | .0143 |
| 2673 | 20.1840 | 20.1872 | 2.0240 | 23.0544 | 1.0256 | 1.0415 | 0.0000 | -.8683 | .0171 |
| 2674 | 21.8350 | 20.1092 | 2.0212 | 23.0596 | 1.0276 | 1.0435 | 0.0000 | -.8609 | .0200 |
| 2675 | .0466 | 20.0592 | 2.0163 | 23.0691 | 1.0247 | 1.0406 | 0.0000 | -.9229 | .0120 |

TEST 995 RUN 157

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CHU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2660 | .0206 | .3837 | .1207 | -.1325 | .3837 | .0893 | -.1325 | .3837 | .1126 | -.1325 | 1.0000 |
| 2661 | .0444 | .8956 | -.7972 | -.3968 | .8949 | .2059 | -.2623 | .8958 | -.9757 | -.4156 | 1.2000 |
| 2662 | -1.8482 | .6972 | -.8077 | -.4161 | .7298 | .1928 | -.3018 | .6917 | -.9883 | -.4351 | 1.2000 |
| 2663 | .0648 | .8948 | -.7993 | -.3960 | .8937 | .2040 | -.2814 | .8950 | -.9777 | -.4148 | 1.2000 |
| 2664 | 1.9747 | 1.0874 | -.7779 | -.3774 | 1.0527 | .2189 | -.2636 | 1.0934 | -.9621 | -.3969 | 1.2000 |
| 2665 | 3.9307 | 1.2682 | -.7449 | -.3492 | 1.1995 | .2431 | -.2361 | 1.2805 | -.9358 | -.3694 | 1.2000 |
| 2666 | 5.9244 | 1.4275 | -.6985 | -.3101 | 1.3256 | .2710 | -.1987 | 1.4476 | -.9035 | -.3320 | 1.2000 |
| 2667 | 7.9441 | 1.5866 | -.6546 | -.2742 | 1.4500 | .3125 | -.1627 | 1.6134 | -.8578 | -.2960 | 1.2000 |
| 2668 | 10.0300 | 1.7456 | -.6009 | -.2367 | 1.5741 | .3572 | -.1256 | 1.7799 | -.8064 | -.2589 | 1.2000 |
| 2669 | 12.1214 | 1.9750 | -.6371 | -.2239 | 1.7445 | .4234 | -.1001 | 1.9927 | -.7319 | -.2334 | 1.2000 |
| 2670 | 14.2072 | 2.1495 | -.5734 | -.1814 | 1.8776 | .4878 | -.0564 | 2.1676 | -.6577 | -.1890 | 1.2000 |
| 2671 | 16.1657 | 2.2065 | -.4186 | -.1033 | 1.9207 | .5544 | .0125 | 2.2497 | -.5805 | -.1208 | 1.2000 |
| 2672 | 18.2061 | 2.3648 | -.3024 | -.0684 | 2.0403 | .6700 | .0488 | 2.4095 | -.4525 | -.0845 | 1.2000 |
| 2673 | 20.1840 | 2.4356 | -.1633 | -.0205 | 2.0817 | .7822 | .0952 | 2.4894 | -.3269 | -.0381 | 1.2000 |
| 2674 | 21.8350 | 2.5090 | -.0442 | .0096 | 2.1268 | .8897 | .1255 | 2.5663 | -.2072 | -.0078 | 1.2000 |
| 2675 | .0466 | .8985 | -.8179 | -.3993 | .8977 | .1948 | -.2837 | .8987 | -.9869 | -.4170 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 158

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2676 | .166 | 1949 | .05 | -.00 | 100606 | 1.0126 | -1.2457 | -.4930 | -.0089 | .0032 | -.0057 |
| 2677 | .166 | 1949 | -1.84 | -.00 | 100592 | .8482 | -1.2314 | -.5121 | -.0004 | .0032 | -.0066 |
| 2678 | .166 | 1952 | .08 | -.00 | 100589 | 1.0237 | -1.2459 | -.4931 | -.0080 | .0032 | -.0071 |
| 2679 | .166 | 1945 | 1.99 | -.00 | 100592 | 1.1866 | -1.2674 | -.4770 | -.0089 | .0029 | -.0068 |
| 2680 | .166 | 1932 | 3.96 | -.00 | 100606 | 1.3462 | -1.2985 | -.4522 | -.0007 | .0027 | -.0079 |
| 2681 | .167 | 1968 | 5.95 | -.00 | 100569 | 1.4813 | -1.2984 | -.4098 | -.0005 | .0028 | -.0062 |
| 2682 | .165 | 1922 | 7.96 | -.00 | 100616 | 1.6292 | -1.3534 | -.3825 | -.0001 | .0029 | -.0089 |
| 2683 | .167 | 1962 | 10.03 | -.00 | 100582 | 1.7499 | -1.3587 | -.3378 | -.0008 | .0024 | -.0081 |
| 2684 | .166 | 1949 | 12.13 | -.00 | 100599 | 1.8928 | -1.4002 | -.2987 | -.0014 | .0018 | -.0041 |
| 2685 | .165 | 1925 | 14.21 | -.00 | 100623 | 2.0262 | -1.4528 | -.2534 | .0018 | .0025 | -.0044 |
| 2686 | .166 | 1942 | 16.20 | -.00 | 100609 | 2.1364 | -1.4567 | -.1954 | -.0030 | .0001 | .0004 |
| 2687 | .166 | 1939 | 18.23 | -.00 | 100613 | 2.2623 | -1.4620 | -.1518 | .0027 | .0032 | -.0049 |
| 2688 | .166 | 1932 | 20.22 | -.00 | 100619 | 2.3578 | -1.4516 | -.1189 | -.0006 | .0034 | -.0125 |
| 2689 | .165 | 1922 | 21.84 | -.00 | 100636 | 2.4273 | -1.4387 | -.0804 | -.0009 | .0046 | -.0136 |
| 2690 | .166 | 1942 | .06 | -.00 | 100623 | 1.0264 | -1.2713 | -.5008 | .0004 | .0031 | -.0095 |

TEST 995 RUN 158

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2676 | .0452 | 25.0706 | 2.5288 | 22.0952 | 1.4458 | 1.4682 | 0.0000 | -1.3812 | .0128 |
| 2677 | -1.8444 | 25.1580 | 2.5311 | 22.0908 | 1.4510 | 1.4735 | 0.0000 | -1.3824 | .0128 |
| 2678 | .0784 | 25.1676 | 2.5364 | 22.0809 | 1.4506 | 1.4731 | 0.0000 | -1.3854 | .0129 |
| 2679 | 1.9888 | 25.1978 | 2.5302 | 22.0926 | 1.4559 | 1.4785 | 0.0000 | -1.3838 | .0127 |
| 2680 | 3.9554 | 25.2172 | 2.5383 | 22.0772 | 1.4690 | 1.4918 | 0.0000 | -1.3983 | .0126 |
| 2681 | 5.9483 | 25.2325 | 2.5386 | 22.0767 | 1.4431 | 1.4655 | 0.0000 | -1.3681 | .0124 |
| 2682 | 7.9624 | 25.2394 | 2.5385 | 22.0768 | 1.4786 | 1.5015 | 0.0000 | -1.3956 | .0127 |
| 2683 | 10.0323 | 25.2482 | 2.5406 | 22.0729 | 1.4496 | 1.4721 | 0.0000 | -1.3610 | .0127 |
| 2684 | 12.1281 | 25.2731 | 2.5452 | 22.0641 | 1.4623 | 1.4849 | 0.0000 | -1.3647 | .0128 |
| 2685 | 14.2125 | 25.3247 | 2.5473 | 22.0601 | 1.4834 | 1.5064 | 0.0000 | -1.3716 | .0134 |
| 2686 | 16.2015 | 25.3357 | 2.5482 | 22.0584 | 1.4718 | 1.4947 | 0.0000 | -1.3478 | .0146 |
| 2687 | 18.2289 | 25.3821 | 2.5504 | 22.0542 | 1.4771 | 1.5000 | 0.0000 | -1.3373 | .0165 |
| 2688 | 20.2162 | 25.4143 | 2.5521 | 22.0509 | 1.4852 | 1.5082 | 0.0000 | -1.3273 | .0198 |
| 2689 | 21.8438 | 25.4567 | 2.5519 | 22.0514 | 1.4959 | 1.5191 | 0.0000 | -1.3196 | .0236 |
| 2690 | .0596 | 24.9925 | 2.5554 | 22.0448 | 1.4546 | 1.4772 | 0.0000 | -1.4102 | .0128 |

TEST 995 RUN 158

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2676 | .0452 | 1.0136 | -1.2449 | -.4930 | 1.0125 | .1882 | -.3299 | 1.0136 | -1.2889 | -.4966 | 1.5000 |
| 2677 | -1.8444 | .8081 | -1.2580 | -.5121 | .8548 | .1794 | -.3484 | .8073 | -1.2970 | -.5150 | 1.5000 |
| 2678 | .0784 | 1.0254 | -1.2445 | -.4931 | 1.0235 | .1932 | -.3295 | 1.0255 | -1.2839 | -.4961 | 1.5000 |
| 2679 | 1.9880 | 1.2299 | -1.2255 | -.4770 | 1.1793 | .2168 | -.3128 | 1.2306 | -1.2594 | -.4794 | 1.5000 |
| 2680 | 3.9554 | 1.4325 | -1.2025 | -.4522 | 1.3312 | .2504 | -.2865 | 1.4331 | -1.2232 | -.4531 | 1.5000 |
| 2681 | 5.9483 | 1.6070 | -1.1379 | -.4098 | 1.4583 | .2851 | -.2470 | 1.6114 | -1.1641 | -.4137 | 1.5000 |
| 2682 | 7.9624 | 1.8009 | -1.1146 | -.3825 | 1.5961 | .3378 | -.2156 | 1.8007 | -1.1259 | -.3823 | 1.5000 |
| 2683 | 10.0323 | 1.9598 | -1.0331 | -.3378 | 1.7073 | .3816 | -.1743 | 1.9646 | -1.0729 | -.3409 | 1.5000 |
| 2684 | 12.1281 | 2.1447 | -.9713 | -.2987 | 1.8375 | .4455 | -.1338 | 2.1479 | -.9986 | -.3004 | 1.5000 |
| 2685 | 14.2125 | 2.3209 | -.9108 | -.2534 | 1.9567 | .5138 | -.0861 | 2.3193 | -.9181 | -.2527 | 1.5000 |
| 2686 | 16.2015 | 2.4980 | -.8027 | -.1954 | 2.0473 | .5960 | -.0293 | 2.4594 | -.8224 | -.1960 | 1.5000 |
| 2687 | 18.2289 | 2.6061 | -.6889 | -.1518 | 2.1441 | .7056 | .0148 | 2.6061 | -.6974 | -.1518 | 1.5000 |
| 2688 | 20.2162 | 2.7142 | -.5474 | -.1189 | 2.2010 | .8265 | .0566 | 2.7114 | -.5596 | -.1100 | 1.5000 |
| 2689 | 21.8438 | 2.7883 | -.4322 | -.0804 | 2.2317 | .9327 | .0884 | 2.7813 | -.4384 | -.0782 | 1.5000 |
| 2690 | .0596 | 1.0277 | -1.2702 | -.5008 | 1.0262 | .1716 | -.3367 | 1.0277 | -1.3055 | -.5033 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 159

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2691 | .166 | 1942 | .05 | -.00 | 100636 | 1.1621 | -1.5946 | -.6001 | -.0010 | .0045 | -.0117 |
| 2692 | .166 | 1939 | -1.84 | -.00 | 100640 | .9994 | -1.5881 | -.6228 | -.0009 | .0048 | -.0136 |
| 2693 | .166 | 1945 | .09 | -.00 | 100640 | 1.1737 | -1.6040 | -.6074 | -.0008 | .0043 | -.0118 |
| 2694 | .167 | 1968 | 2.01 | -.00 | 100610 | 1.3389 | -1.6025 | -.5853 | -.0008 | .0041 | -.0117 |
| 2695 | .166 | 1945 | 3.95 | -.00 | 100636 | 1.5079 | -1.6466 | -.5646 | -.0020 | .0037 | -.0147 |
| 2696 | .165 | 1925 | 5.95 | -.00 | 100653 | 1.6949 | -1.6848 | -.5323 | -.0004 | .0040 | -.0137 |
| 2697 | .165 | 1912 | 7.98 | -.00 | 100673 | 1.7859 | -1.7101 | -.4952 | -.0005 | .0040 | -.0127 |
| 2698 | .166 | 1945 | 10.03 | -.00 | 100647 | 1.9062 | -1.7100 | -.4486 | -.0008 | .0036 | -.0086 |
| 2699 | .166 | 1945 | 12.13 | -.00 | 100647 | 2.0498 | -1.7472 | -.4099 | -.0019 | .0029 | -.0101 |
| 2700 | .166 | 1945 | 14.27 | -.00 | 100647 | 2.1999 | -1.7889 | -.3686 | .0018 | .0038 | -.0139 |
| 2701 | .166 | 1942 | 16.21 | -.00 | 100650 | 2.2962 | -1.8041 | -.3026 | -.0044 | .0015 | -.0063 |
| 2702 | .165 | 1912 | 18.22 | -.00 | 100677 | 2.4046 | -1.8195 | -.2589 | .0025 | .0055 | -.0189 |
| 2703 | .165 | 1919 | 20.21 | -.00 | 100667 | 2.5029 | -1.8813 | -.2112 | -.0015 | .0046 | -.0138 |
| 2704 | .167 | 1959 | 21.82 | -.00 | 100626 | 2.5579 | -1.7416 | -.1694 | -.0020 | .0054 | -.0201 |
| 2705 | .166 | 1935 | .05 | -.00 | 100657 | 1.1587 | -1.5965 | -.5991 | -.0009 | .0042 | -.0083 |
| 2706 | .166 | 1949 | .00 | -.00 | 100650 | .3793 | .1072 | -.1332 | .0004 | .0009 | -.0020 |

TEST 995 RUN 159

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CHU,N | CHU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2691 | .0537 | 28.6334 | 2.9302 | 21.3326 | 1.7690 | 1.7964 | 0.0000 | -1.7503 | .0126 |
| 2692 | -1.8425 | 28.6829 | 2.9386 | 21.3167 | 1.7772 | 1.8048 | 0.0000 | -1.7600 | .0128 |
| 2693 | .0936 | 28.7818 | 2.9431 | 21.3080 | 1.7777 | 1.8053 | 0.0000 | -1.7590 | .0126 |
| 2694 | 2.0060 | 28.7830 | 2.9466 | 21.3015 | 1.7574 | 1.7847 | 0.0000 | -1.7399 | .0125 |
| 2695 | 3.9535 | 28.8472 | 2.9494 | 21.2961 | 1.7833 | 1.8110 | 0.0000 | -1.7605 | .0123 |
| 2696 | 5.9466 | 28.8140 | 2.9410 | 21.3122 | 1.7974 | 1.8253 | 0.0000 | -1.7658 | .0123 |
| 2697 | 7.9754 | 28.7948 | 2.9417 | 21.3107 | 1.8089 | 1.8370 | 0.0000 | -1.7714 | .0124 |
| 2698 | 10.0339 | 28.7721 | 2.9378 | 21.3161 | 1.7757 | 1.8033 | 0.0000 | -1.7275 | .0125 |
| 2699 | 12.1304 | 28.7566 | 2.9421 | 21.3099 | 1.7759 | 1.8034 | 0.0000 | -1.7190 | .0126 |
| 2700 | 14.2730 | 28.8397 | 2.9442 | 21.3061 | 1.7818 | 1.8095 | 0.0000 | -1.7056 | .0132 |
| 2701 | 16.2120 | 28.7421 | 2.9383 | 21.3172 | 1.7767 | 1.8043 | 0.0000 | -1.6879 | .0142 |
| 2702 | 18.2153 | 28.7138 | 2.9335 | 21.3263 | 1.8021 | 1.8301 | 0.0000 | -1.6920 | .0166 |
| 2703 | 20.2056 | 28.6974 | 2.9306 | 21.3318 | 1.7942 | 1.8220 | 0.0000 | -1.6632 | .0198 |
| 2704 | 21.8243 | 28.6704 | 2.9281 | 21.3366 | 1.7553 | 1.7825 | 0.0000 | -1.6092 | .0238 |
| 2705 | .0533 | 28.6376 | 2.9267 | 21.3392 | 1.7746 | 1.8022 | 0.0000 | -1.7534 | .0125 |
| 2706 | .0042 | 0.0000 | .9604 | 25.0752 | 0.0000 | 0.0000 | 0.0000 | .0358 | .0079 |

TEST 995 RUN 159

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CHU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2691 | .0537 | 1.1636 | -1.5935 | -.6001 | 1.1620 | .1629 | -.4005 | 1.1636 | -1.6096 | -.6005 | 1.8000 |
| 2692 | -1.8425 | .9478 | -1.6194 | -.6228 | 1.0050 | .1441 | -.4223 | .9480 | -1.6275 | -.6223 | 1.8000 |
| 2693 | .0936 | 1.1763 | -1.6029 | -.6074 | 1.1734 | .1622 | -.4069 | 1.1763 | -1.6103 | -.6068 | 1.8000 |
| 2694 | 2.0060 | 1.3942 | -1.5546 | -.5853 | 1.3327 | .1893 | -.3870 | 1.3947 | -1.5822 | -.5870 | 1.8000 |
| 2695 | 3.9535 | 1.6178 | -1.5387 | -.5646 | 1.4949 | .2281 | -.3634 | 1.6171 | -1.5402 | -.5633 | 1.8000 |
| 2696 | 5.9466 | 1.8205 | -1.5043 | -.5323 | 1.6343 | .2712 | -.3295 | 1.8179 | -1.4918 | -.5295 | 1.8000 |
| 2697 | 7.9754 | 2.0066 | -1.4538 | -.4952 | 1.7556 | .3252 | -.2911 | 2.0015 | -1.4301 | -.4911 | 1.8000 |
| 2698 | 10.0339 | 2.1764 | -1.3596 | -.4486 | 1.8670 | .3765 | -.2485 | 2.1759 | -1.3689 | -.4485 | 1.8000 |
| 2699 | 12.1304 | 2.3712 | -1.2775 | -.4099 | 1.9980 | .4461 | -.2096 | 2.3705 | -1.2860 | -.4096 | 1.8000 |
| 2700 | 14.2730 | 2.5711 | -1.1835 | -.3686 | 2.1318 | .5301 | -.1596 | 2.5688 | -1.1877 | -.3596 | 1.8000 |
| 2701 | 16.2120 | 2.7086 | -1.0912 | -.3026 | 2.2125 | .6006 | -.1022 | 2.7074 | -1.1014 | -.3022 | 1.8000 |
| 2702 | 18.2153 | 2.8529 | -.9766 | -.2589 | 2.2895 | .7186 | -.0556 | 2.8436 | -.9651 | -.2556 | 1.8000 |
| 2703 | 20.2056 | 2.9711 | -.8260 | -.2112 | 2.3514 | .8380 | -.0008 | 2.9636 | -.8254 | -.2087 | 1.8000 |
| 2704 | 21.8243 | 3.0220 | -.6658 | -.1694 | 2.3695 | .9399 | .0287 | 3.0284 | -.7056 | -.1713 | 1.8000 |
| 2705 | .0533 | 1.1602 | -1.5955 | -.5991 | 1.1585 | .1667 | -.3989 | 1.1602 | -1.6058 | -.5989 | 1.8000 |
| 2706 | .0042 | .3793 | .1072 | -.1332 | .3793 | .0636 | -.1332 | .3793 | .0994 | -.1332 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 160

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2709 | .166 | 1942 | .04 | -.00 | 100609 | .4752 | .0723 | -.1356 | -.0010 | .0006 | -.0014 |
| 2710 | .166 | 1932 | -1.84 | -.00 | 100619 | .3723 | .0761 | -.1636 | -.0017 | .0004 | -.0010 |
| 2711 | .166 | 1952 | .05 | -.00 | 100603 | .4774 | .0726 | -.1358 | -.0014 | .0005 | -.0025 |
| 2712 | .166 | 1942 | 1.94 | .00 | 100613 | .6042 | .0676 | -.0989 | -.0022 | .0001 | -.0066 |
| 2713 | .167 | 1955 | 3.93 | -.00 | 100609 | .7321 | .0558 | -.0622 | -.0007 | -.0001 | -.0022 |
| 2714 | .167 | 1959 | 5.93 | -.00 | 100603 | .8810 | .0447 | -.0229 | -.0016 | -.0002 | -.0026 |
| 2715 | .166 | 1952 | 7.96 | -.00 | 100616 | .9813 | .0334 | .0211 | -.0004 | .0000 | -.0031 |
| 2716 | .166 | 1932 | 10.03 | -.00 | 100640 | 1.0713 | .0281 | .0736 | -.0016 | -.0003 | -.0009 |
| 2717 | .166 | 1935 | 12.12 | -.00 | 100640 | 1.1689 | .0281 | .1216 | -.0003 | .0002 | .0016 |
| 2718 | .166 | 1945 | 14.18 | -.00 | 100630 | 1.2763 | .0300 | .1697 | -.0002 | .0001 | .0020 |
| 2719 | .166 | 1939 | 16.19 | -.00 | 100640 | 1.3663 | .0320 | .2199 | -.0024 | .0005 | .0043 |
| 2720 | .166 | 1935 | 18.19 | -.00 | 100643 | 1.4967 | .0570 | .2225 | -.0013 | .0005 | .0011 |
| 2721 | .165 | 1922 | 20.18 | -.00 | 100656 | 1.6497 | .0561 | .2606 | -.0013 | .0009 | -.0066 |
| 2722 | .165 | 1919 | 21.72 | -.00 | 100660 | 1.7491 | .0530 | .2985 | -.0005 | .0021 | -.0043 |
| 2723 | .166 | 1945 | .05 | -.00 | 100636 | .4885 | .0747 | -.1352 | -.0010 | .0005 | -.0049 |

TEST 995 RUN 160

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | YHETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2709 | .0363 | 0.0000 | .9779 | 25.0419 | 0.0000 | 0.0000 | 0.0000 | .0200 | .0082 |
| 2710 | -1.8386 | 0.0000 | .9794 | 25.0390 | 0.0000 | 0.0000 | 0.0000 | .0187 | .0083 |
| 2711 | .0528 | 0.0000 | .9806 | 25.0369 | 0.0000 | 0.0000 | 0.0000 | .0175 | .0082 |
| 2712 | 1.9425 | 0.0000 | .9812 | 25.0357 | 0.0000 | 0.0000 | 0.0000 | .0170 | .0082 |
| 2713 | 3.9269 | 0.0000 | .9804 | 25.0373 | 0.0000 | 0.0000 | 0.0000 | .0176 | .0080 |
| 2714 | 5.9269 | 0.0000 | .9808 | 25.0364 | 0.0000 | 0.0000 | 0.0000 | .0171 | .0079 |
| 2715 | 7.9625 | 0.0000 | .9828 | 25.0327 | 0.0000 | 0.0000 | 0.0000 | .0154 | .0079 |
| 2716 | 10.0260 | 0.0000 | .9831 | 25.0320 | 0.0000 | 0.0000 | 0.0000 | .0151 | .0079 |
| 2717 | 12.1188 | 0.0000 | .9820 | 25.0342 | 0.0000 | 0.0000 | 0.0000 | .0160 | .0080 |
| 2718 | 14.1839 | 0.0000 | .9802 | 25.0377 | 0.0000 | 0.0000 | 0.0000 | .0174 | .0084 |
| 2719 | 16.1888 | 0.0000 | .9791 | 25.0397 | 0.0000 | 0.0000 | 0.0000 | .0182 | .0084 |
| 2720 | 18.1857 | 0.0000 | .9735 | 25.0504 | 0.0000 | 0.0000 | 0.0000 | .0229 | .0097 |
| 2721 | 20.1800 | 0.0000 | .9731 | 25.0511 | 0.0000 | 0.0000 | 0.0000 | .0231 | .0101 |
| 2722 | 21.7206 | 0.0000 | .9723 | 25.0526 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0103 |
| 2723 | .0535 | 0.0000 | .9865 | 25.0257 | 0.0000 | 0.0000 | 0.0000 | .0122 | .0083 |

TEST 995 RUN 160

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2709 | .0363 | .4752 | .0726 | -.1356 | .4752 | .0444 | -.1356 | .4752 | .0644 | -.1356 | 1.0000 |
| 2710 | -1.8386 | .3746 | .0641 | -.1636 | .3746 | .0371 | -.1636 | .3746 | .0558 | -.1636 | 1.0000 |
| 2711 | .0528 | .4773 | .0731 | -.1358 | .4773 | .0474 | -.1358 | .4773 | .0649 | -.1358 | 1.0000 |
| 2712 | 1.9425 | .6016 | .0880 | -.0989 | .6016 | .0628 | -.0989 | .6016 | .0799 | -.0989 | 1.0000 |
| 2713 | 3.9269 | .7266 | .1058 | -.0622 | .7266 | .0801 | -.0622 | .7266 | .0977 | -.0622 | 1.0000 |
| 2714 | 5.9269 | .8717 | .1354 | -.0229 | .8717 | .1104 | -.0229 | .8717 | .1275 | -.0229 | 1.0000 |
| 2715 | 7.9625 | .9672 | .1690 | .0211 | .9672 | .1458 | .0211 | .9672 | .1612 | .0211 | 1.0000 |
| 2716 | 10.0260 | 1.0501 | .2142 | .0736 | 1.0501 | .1911 | .0736 | 1.0501 | .2062 | .0736 | 1.0000 |
| 2717 | 12.1188 | 1.1370 | .2728 | .1216 | 1.1370 | .2488 | .1216 | 1.1370 | .2648 | .1216 | 1.0000 |
| 2718 | 14.1839 | 1.2300 | .3418 | .1697 | 1.2300 | .3160 | .1697 | 1.2300 | .3334 | .1697 | 1.0000 |
| 2719 | 16.1888 | 1.3032 | .4117 | .2199 | 1.3032 | .3851 | .2199 | 1.3032 | .4033 | .2199 | 1.0000 |
| 2720 | 18.1857 | 1.3985 | .5194 | .2225 | 1.3985 | .4867 | .2225 | 1.3985 | .5097 | .2225 | 1.0000 |
| 2721 | 20.1800 | 1.5290 | .6218 | .2606 | 1.5290 | .5885 | .2606 | 1.5290 | .6116 | .2606 | 1.0000 |
| 2722 | 21.7206 | 1.6053 | .6966 | .2985 | 1.6053 | .6626 | .2985 | 1.6053 | .6862 | .2985 | 1.0000 |
| 2723 | .0535 | .4884 | .0752 | -.1352 | .4884 | .0547 | -.1352 | .4884 | .0669 | -.1352 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 161

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2724 | .166 | 1949 | .04 | -.00 | 100643 | .4750 | .0707 | -.1312 | -.0011 | .0005 | .0009 |
| 2725 | .167 | 1965 | .07 | -.00 | 100640 | 1.2480 | -1.6093 | -.5931 | -.0021 | .0041 | -.0067 |
| 2726 | .165 | 1925 | -1.79 | -.00 | 100677 | 1.1280 | -1.6385 | -.6313 | -.0025 | .0042 | -.0065 |
| 2727 | .167 | 1955 | .10 | -.00 | 100643 | 1.2522 | -1.6146 | -.5916 | -.0025 | .0044 | -.0076 |
| 2728 | .166 | 1939 | 2.02 | -.00 | 100660 | 1.3936 | -1.6387 | -.5595 | -.0021 | .0041 | -.0087 |
| 2729 | .167 | 1955 | 3.99 | -.00 | 100643 | 1.5199 | -1.6379 | -.5214 | -.0016 | .0035 | -.0075 |
| 2730 | .166 | 1942 | 5.97 | -.00 | 100657 | 1.6741 | -1.6603 | -.4873 | -.0003 | .0031 | -.0090 |
| 2731 | .165 | 1929 | 8.01 | -.00 | 100670 | 1.8189 | -1.6760 | -.4504 | -.0023 | .0033 | -.0071 |
| 2732 | .165 | 1925 | 10.06 | -.00 | 100673 | 1.9094 | -1.6764 | -.4085 | -.0028 | .0039 | -.0051 |
| 2733 | .167 | 1962 | 12.16 | -.00 | 100637 | 1.9973 | -1.6461 | -.3548 | -.0034 | .0038 | -.0042 |
| 2734 | .166 | 1945 | 14.24 | -.00 | 100653 | 2.1076 | -1.6593 | -.3082 | -.0025 | .0042 | -.0062 |
| 2735 | .166 | 1945 | 16.22 | -.00 | 100650 | 2.2255 | -1.6569 | -.2605 | -.0018 | .0045 | -.0085 |
| 2736 | .165 | 1925 | 18.23 | -.00 | 100670 | 2.4601 | -1.6571 | -.2926 | -.0038 | .0047 | -.0112 |
| 2737 | .167 | 1959 | 20.24 | -.00 | 100640 | 2.5851 | -1.6331 | -.2284 | -.0022 | .0052 | -.0130 |
| 2738 | .166 | 1952 | 21.70 | -.00 | 100647 | 2.6918 | -1.6416 | -.1907 | -.0028 | .0059 | -.0159 |
| 2739 | .167 | 1968 | .08 | -.00 | 100620 | 1.2350 | -1.5957 | -.5817 | -.0033 | .0044 | -.0084 |
| 2740 | .166 | 1932 | .04 | -.00 | 100650 | .4834 | .0493 | -.1397 | -.0016 | .0005 | -.0013 |

TEST 995 RUN 161

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CHU,N | CHU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2724 | .0367 | 0.0000 | .9871 | 25.0245 | 0.0000 | 0.0000 | 0.0000 | .0117 | .0081 |
| 2725 | .0724 | 28.7577 | 2.9381 | 21.3177 | 1.7403 | 1.7673 | 0.0000 | -1.7368 | .0126 |
| 2726 | -1.7913 | 28.7076 | 2.9362 | 21.3212 | 1.7724 | 1.7999 | 0.0000 | -1.7706 | .0129 |
| 2727 | .1050 | 28.6495 | 2.9298 | 21.3334 | 1.7401 | 1.7671 | 0.0000 | -1.7382 | .0127 |
| 2728 | 2.0186 | 28.6195 | 2.9332 | 21.3269 | 1.7539 | 1.7811 | 0.0000 | -1.7553 | .0126 |
| 2729 | 3.9891 | 28.5809 | 2.9254 | 21.3417 | 1.7358 | 1.7627 | 0.0000 | -1.7300 | .0125 |
| 2730 | 5.9747 | 28.6236 | 2.9206 | 21.3509 | 1.7494 | 1.7765 | 0.0000 | -1.7324 | .0125 |
| 2731 | 8.0061 | 29.1166 | 2.9220 | 21.3482 | 1.7928 | 1.8206 | 0.0000 | -1.7362 | .0130 |
| 2732 | 10.0598 | 29.0286 | 2.9202 | 21.3516 | 1.7920 | 1.8198 | 0.0000 | -1.7298 | .0140 |
| 2733 | 12.1611 | 28.9913 | 2.9191 | 21.3538 | 1.7568 | 1.7841 | 0.0000 | -1.6839 | .0155 |
| 2734 | 14.2444 | 28.9554 | 2.9204 | 21.3512 | 1.7714 | 1.7988 | 0.0000 | -1.6853 | .0174 |
| 2735 | 16.2201 | 28.9440 | 2.9206 | 21.3508 | 1.7725 | 1.8000 | 0.0000 | -1.6696 | .0190 |
| 2736 | 18.2328 | 28.9146 | 2.9123 | 21.3667 | 1.7871 | 1.8148 | 0.0000 | -1.6616 | .0203 |
| 2737 | 20.2396 | 28.9040 | 2.9128 | 21.3657 | 1.7585 | 1.7858 | 0.0000 | -1.6137 | .0226 |
| 2738 | 21.6962 | 28.8425 | 2.9091 | 21.3727 | 1.7606 | 1.7879 | 0.0000 | -1.6005 | .0242 |
| 2739 | .0838 | 28.7021 | 2.8996 | 21.3987 | 1.7373 | 1.7642 | 0.0000 | -1.6991 | .0125 |
| 2740 | .0390 | 0.0000 | .9844 | 25.0296 | 0.0000 | 0.0000 | 0.0000 | .0142 | .0076 |

TEST 995 RUN 161

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CHU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2724 | .0367 | .4750 | .0710 | -.1312 | .4750 | .0513 | -.1312 | .4750 | .0629 | -.1312 | 1.0000 |
| 2725 | .0724 | 1.2500 | -1.6077 | -.5931 | 1.2478 | .1199 | -.3968 | 1.2500 | -1.6526 | -.5968 | 1.8000 |
| 2726 | -1.7913 | 1.0763 | -1.6736 | -.6313 | 1.1317 | .0857 | -.4313 | 1.0763 | -1.6859 | -.6313 | 1.8000 |
| 2727 | .1050 | 1.2552 | -1.6123 | -.5916 | 1.2520 | .1151 | -.3953 | 1.2553 | -1.6574 | -.5953 | 1.8000 |
| 2728 | 2.0186 | 1.4504 | -1.5866 | -.5595 | 1.3887 | .1516 | -.3616 | 1.4511 | -1.6198 | -.5616 | 1.8000 |
| 2729 | 3.9891 | 1.6301 | -1.5282 | -.5214 | 1.5094 | .1909 | -.3255 | 1.6327 | -1.5773 | -.5255 | 1.8000 |
| 2730 | 5.9747 | 1.8379 | -1.4770 | -.4873 | 1.6556 | .2504 | -.2899 | 1.8403 | -1.5125 | -.4899 | 1.8000 |
| 2731 | 8.0061 | 2.0347 | -1.4063 | -.4504 | 1.7850 | .3560 | -.2481 | 2.0318 | -1.3992 | -.4481 | 1.8000 |
| 2732 | 10.0598 | 2.1729 | -1.3171 | -.4085 | 1.8599 | .4334 | -.2063 | 2.1695 | -1.3119 | -.4063 | 1.8000 |
| 2733 | 12.1611 | 2.2992 | -1.1884 | -.3548 | 1.9291 | .5135 | -.1566 | 2.3025 | -1.2192 | -.3565 | 1.8000 |
| 2734 | 14.2444 | 2.4511 | -1.0897 | -.3082 | 2.0152 | .6098 | -.1084 | 2.4513 | -1.1082 | -.3084 | 1.8000 |
| 2735 | 16.2201 | 2.5998 | -.9693 | -.2605 | 2.1046 | .7136 | -.0605 | 2.5997 | -.9883 | -.2604 | 1.8000 |
| 2736 | 18.2328 | 2.8551 | -.8042 | -.2926 | 2.2960 | .8728 | -.0910 | 2.8505 | -.8107 | -.2909 | 1.8000 |
| 2737 | 20.2396 | 2.9904 | -.6380 | -.2284 | 2.3821 | .9893 | -.0300 | 2.9953 | -.6738 | -.2299 | 1.8000 |
| 2738 | 21.6962 | 3.1080 | -.5301 | -.1907 | 2.4571 | 1.0816 | .0079 | 3.1123 | -.5654 | -.1920 | 1.8000 |
| 2739 | .0838 | 1.2374 | -1.5939 | -.5817 | 1.2348 | .1309 | -.3858 | 1.2374 | -1.6416 | -.5857 | 1.8000 |
| 2740 | .0390 | .4834 | .0497 | -.1397 | .4834 | .0279 | -.1397 | .4834 | .0421 | -.1397 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 162

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2743 | .165 | 1929 | .02 | -.00 | 100667 | .3432 | .0611 | -.0840 | -.0018 | .0002 | .0008 |
| 2744 | .166 | 1949 | -1.84 | .00 | 100640 | .2162 | .0640 | -.1164 | -.0022 | -.0003 | -.0025 |
| 2745 | .167 | 1959 | .02 | -.00 | 100637 | .3449 | .0626 | -.0828 | -.0018 | .0002 | -.0004 |
| 2746 | .166 | 1952 | 1.96 | -.00 | 100643 | .4755 | .0562 | -.0495 | -.0018 | .0003 | -.0000 |
| 2747 | .165 | 1929 | 3.92 | -.00 | 100670 | .6083 | .0468 | -.0136 | -.0019 | .0000 | .0014 |
| 2748 | .166 | 1939 | 5.91 | -.00 | 100660 | .7447 | .0332 | .0267 | -.0007 | .0002 | .0141 |
| 2749 | .166 | 1952 | 7.92 | -.00 | 100650 | .8544 | .0222 | .0703 | -.0013 | -.0002 | -.0008 |
| 2750 | .166 | 1932 | 9.98 | -.00 | 100670 | .9709 | .0148 | .1111 | -.0021 | -.0002 | .0011 |
| 2751 | .166 | 1932 | 12.11 | .00 | 100674 | 1.0769 | .0102 | .1521 | -.0013 | -.0009 | -.0082 |
| 2752 | .166 | 1935 | 14.18 | -.00 | 100670 | 1.1853 | .0139 | .2025 | -.0015 | .0000 | .0043 |
| 2753 | .166 | 1935 | 16.18 | -.00 | 100674 | 1.2967 | .0168 | .2464 | -.0023 | .0002 | .0012 |
| 2754 | .165 | 1925 | 18.19 | -.00 | 100684 | 1.4441 | .0422 | .2378 | -.0024 | .0003 | .0018 |
| 2755 | .166 | 1935 | 20.19 | -.00 | 100670 | 1.5946 | .0392 | .2762 | -.0014 | .0010 | -.0016 |
| 2756 | .165 | 1916 | 21.67 | -.00 | 100687 | 1.7804 | .0355 | .3092 | .0000 | .0018 | -.0042 |
| 2757 | .166 | 1952 | .04 | -.00 | 100647 | .3495 | .0648 | -.0836 | -.0014 | .0007 | .0054 |

TEST 995 RUN 162

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2743 | .0163 | 0.0000 | .9760 | 25.0456 | 0.0000 | 0.0000 | 0.0000 | .0219 | .0082 |
| 2744 | -1.8391 | 0.0000 | .9775 | 25.0428 | 0.0000 | 0.0000 | 0.0000 | .0203 | .0082 |
| 2745 | .0167 | 0.0000 | .9790 | 25.0399 | 0.0000 | 0.0000 | 0.0000 | .0189 | .0081 |
| 2746 | 1.9584 | 0.0000 | .9777 | 25.0423 | 0.0000 | 0.0000 | 0.0000 | .0201 | .0080 |
| 2747 | 3.9152 | 0.0000 | .9783 | 25.0412 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0079 |
| 2748 | 5.9142 | 0.0000 | .9782 | 25.0415 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0076 |
| 2749 | 7.9224 | 0.0000 | .9791 | 25.0396 | 0.0000 | 0.0000 | 0.0000 | .0186 | .0074 |
| 2750 | 9.9817 | 0.0000 | .9796 | 25.0387 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0073 |
| 2751 | 12.1116 | 0.0000 | .9797 | 25.0386 | 0.0000 | 0.0000 | 0.0000 | .0181 | .0074 |
| 2752 | 14.1805 | 0.0000 | .9777 | 25.0423 | 0.0000 | 0.0000 | 0.0000 | .0197 | .0076 |
| 2753 | 16.1848 | 0.0000 | .9759 | 25.0458 | 0.0000 | 0.0000 | 0.0000 | .0211 | .0078 |
| 2754 | 18.1930 | 0.0000 | .9687 | 25.0594 | 0.0000 | 0.0000 | 0.0000 | .0272 | .0095 |
| 2755 | 20.1886 | 0.0000 | .9664 | 25.0638 | 0.0000 | 0.0000 | 0.0000 | .0287 | .0097 |
| 2756 | 21.6736 | 0.0000 | .9665 | 25.0636 | 0.0000 | 0.0000 | 0.0000 | .0286 | .0100 |
| 2757 | .0355 | 0.0000 | .9808 | 25.0364 | 0.0000 | 0.0000 | 0.0000 | .0173 | .0079 |

TEST 995 RUN 162

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2743 | .0163 | .3431 | .0612 | -.0840 | .3431 | .0311 | -.0840 | .3431 | .0530 | -.0840 | 1.0000 |
| 2744 | -1.8391 | .2181 | .0570 | -.1164 | .2181 | .0285 | -.1164 | .2181 | .0488 | -.1164 | 1.0000 |
| 2745 | .0167 | .3449 | .0627 | -.0828 | .3449 | .0357 | -.0828 | .3449 | .0546 | -.0828 | 1.0000 |
| 2746 | 1.9584 | .4733 | .0724 | -.0495 | .4733 | .0443 | -.0495 | .4733 | .0644 | -.0495 | 1.0000 |
| 2747 | 3.9152 | .6037 | .0882 | -.0136 | .6037 | .0606 | -.0136 | .6037 | .0803 | -.0136 | 1.0000 |
| 2748 | 5.9142 | .7373 | .1098 | .0267 | .7373 | .0825 | .0267 | .7373 | .1022 | .0267 | 1.0000 |
| 2749 | 7.9224 | .8432 | .1398 | .0703 | .8432 | .1137 | .0703 | .8432 | .1324 | .0703 | 1.0000 |
| 2750 | 9.9817 | .9536 | .1829 | .1111 | .9536 | .1573 | .1111 | .9536 | .1756 | .1111 | 1.0000 |
| 2751 | 12.1116 | 1.0508 | .2360 | .1521 | 1.0508 | .2104 | .1521 | 1.0508 | .2286 | .1521 | 1.0000 |
| 2752 | 14.1805 | 1.1458 | .3038 | .2025 | 1.1458 | .2766 | .2025 | 1.1458 | .2963 | .2025 | 1.0000 |
| 2753 | 16.1848 | 1.2406 | .3775 | .2464 | 1.2406 | .3487 | .2464 | 1.2406 | .3698 | .2464 | 1.0000 |
| 2754 | 18.1930 | 1.3588 | .4910 | .2370 | 1.3588 | .4544 | .2370 | 1.3588 | .4815 | .2370 | 1.0000 |
| 2755 | 20.1886 | 1.4831 | .5871 | .2762 | 1.4831 | .5487 | .2762 | 1.4831 | .5774 | .2762 | 1.0000 |
| 2756 | 21.6736 | 1.5671 | .6610 | .3092 | 1.5671 | .6224 | .3092 | 1.5671 | .6510 | .3092 | 1.0000 |
| 2757 | .0355 | .3495 | .0650 | -.0836 | .3495 | .0398 | -.0836 | .3495 | .0571 | -.0836 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 163

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2758 | .167 | 1959 | .03 | -.00 | 100640 | .3391 | .0640 | -.0825 | -.0019 | .0002 | .0008 |
| 2760 | .166 | 1949 | .04 | -.00 | 100626 | .6531 | -.4679 | -.2307 | -.0024 | .0008 | -.0029 |
| 2761 | .166 | 1939 | -1.84 | -.00 | 100636 | .4990 | -.4280 | -.2509 | -.0029 | .0012 | -.0038 |
| 2762 | .166 | 1945 | .07 | -.00 | 100636 | .6392 | -.4418 | -.2234 | -.0021 | .0017 | -.0040 |
| 2763 | .165 | 1922 | 1.98 | -.00 | 100660 | .7918 | -.4766 | -.1987 | -.0027 | .0013 | -.0047 |
| 2764 | .166 | 1952 | 3.93 | -.00 | 100630 | .9341 | -.4893 | -.1656 | -.0054 | .0004 | -.0036 |
| 2765 | .165 | 1922 | 5.93 | -.00 | 100660 | 1.0696 | -.4812 | -.1249 | -.0025 | .0000 | -.0024 |
| 2766 | .166 | 1932 | 7.96 | -.00 | 100650 | 1.2149 | -.4805 | -.0881 | -.0024 | .0006 | -.0036 |
| 2767 | .165 | 1925 | 10.02 | -.00 | 100657 | 1.3407 | -.4780 | -.0556 | -.0024 | .0010 | -.0032 |
| 2768 | .166 | 1935 | 12.13 | -.00 | 100646 | 1.4617 | -.4731 | -.0160 | -.0013 | .0015 | -.0054 |
| 2769 | .166 | 1952 | 14.20 | -.00 | 100637 | 1.5703 | -.4655 | .0342 | -.0016 | .0025 | .0025 |
| 2770 | .168 | 1982 | 16.20 | -.00 | 100606 | 1.7108 | -.5026 | .0610 | -.0029 | .0018 | -.0037 |
| 2771 | .167 | 1959 | 18.20 | -.00 | 100633 | 1.9208 | -.5804 | .0386 | -.0041 | .0020 | -.0041 |
| 2772 | .166 | 1945 | 20.21 | -.00 | 100650 | 2.0596 | -.5188 | .0831 | -.0028 | .0020 | -.0019 |
| 2773 | .166 | 1949 | 21.79 | -.00 | 100647 | 2.1731 | -.5296 | .1193 | -.0030 | .0027 | -.0039 |
| 2774 | .166 | 1939 | .05 | -.00 | 100657 | .6471 | -.4556 | -.2274 | -.0022 | .0012 | .0005 |

TEST 995 RUN 163

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2758 | .0302 | 0.0000 | .9811 | 25.0359 | 0.0000 | 0.0000 | 0.0000 | .0170 | .0078 |
| 2760 | .0375 | 15.2611 | 1.5283 | 23.9962 | .6876 | .6171 | 0.0000 | -.4774 | .0105 |
| 2761 | -1.8405 | 14.7039 | 1.4780 | 24.0917 | .5660 | .5747 | 0.0000 | -.4340 | .0099 |
| 2762 | .0714 | 14.7870 | 1.4891 | 24.0788 | .5724 | .5813 | 0.0000 | -.4427 | .0100 |
| 2763 | 1.9781 | 15.1481 | 1.5225 | 24.0073 | .6088 | .6182 | 0.0000 | -.4765 | .0104 |
| 2764 | 3.9314 | 15.2427 | 1.5303 | 23.9925 | .6070 | .6164 | 0.0000 | -.4772 | .0104 |
| 2765 | 5.9328 | 14.8326 | 1.4923 | 24.0647 | .5821 | .5912 | 0.0000 | -.4487 | .0101 |
| 2766 | 7.9601 | 14.7898 | 1.4880 | 24.0765 | .5762 | .5852 | 0.0000 | -.4388 | .0101 |
| 2767 | 10.0228 | 14.7285 | 1.4794 | 24.0892 | .5718 | .5807 | 0.0000 | -.4318 | .0105 |
| 2768 | 12.1272 | 14.6600 | 1.4725 | 24.1022 | .5631 | .5718 | 0.0000 | -.4204 | .0112 |
| 2769 | 14.2029 | 14.5868 | 1.4680 | 24.1108 | .5538 | .5623 | 0.0000 | -.4093 | .0121 |
| 2770 | 16.2030 | 15.2274 | 1.5304 | 23.9923 | .5982 | .6075 | 0.0000 | -.4525 | .0142 |
| 2771 | 18.1991 | 15.2138 | 1.5305 | 23.9921 | .6047 | .6141 | 0.0000 | -.4531 | .0148 |
| 2772 | 20.2118 | 15.3394 | 1.5427 | 23.9688 | .6210 | .6306 | 0.0000 | -.4611 | .0163 |
| 2773 | 21.7884 | 15.4125 | 1.5506 | 23.9538 | .6261 | .6358 | 0.0000 | -.4621 | .0175 |
| 2774 | .0485 | 14.9105 | 1.5040 | 24.0424 | .5888 | .5979 | 0.0000 | -.4579 | .0102 |

TEST 995 RUN 163

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2758 | .0302 | .3391 | .0642 | -.0825 | .3391 | .0394 | -.0825 | .3391 | .0564 | -.0825 | 1.0000 |
| 2760 | .0375 | .6534 | -.4675 | -.2307 | .6530 | .1297 | -.1621 | .6537 | -1.0520 | -.2955 | 1.2000 |
| 2761 | -1.8405 | .4850 | -.4438 | -.2509 | .5032 | .1119 | -.1870 | .4652 | -1.0691 | -.3204 | 1.2000 |
| 2762 | .0714 | .6397 | -.4410 | -.2234 | .6390 | .1214 | -.1588 | .6405 | -1.0603 | -.2921 | 1.2000 |
| 2763 | 1.9781 | .8070 | -.4491 | -.1987 | .7860 | .1490 | -.1300 | .8268 | -1.0320 | -.2633 | 1.2000 |
| 2764 | 3.9314 | .9655 | -.4241 | -.1656 | .9238 | .1710 | -.0971 | 1.0049 | -1.0078 | -.2305 | 1.2000 |
| 2765 | 5.9328 | 1.1136 | -.3680 | -.1249 | 1.0534 | .2009 | -.0592 | 1.1756 | -.9744 | -.1925 | 1.2000 |
| 2766 | 7.9601 | 1.2697 | -.3077 | -.0881 | 1.1899 | .2529 | -.0231 | 1.3536 | -.9174 | -.1564 | 1.2000 |
| 2767 | 10.0228 | 1.4034 | -.2373 | -.0556 | 1.3039 | .3153 | .0089 | 1.5096 | -.8483 | -.1244 | 1.2000 |
| 2768 | 12.1272 | 1.5284 | -.1554 | -.0160 | 1.4181 | .3839 | .0475 | 1.6584 | -.7714 | -.0858 | 1.2000 |
| 2769 | 14.2029 | 1.6365 | -.0660 | .0342 | 1.5007 | .4587 | .0967 | 1.7906 | -.6868 | -.0366 | 1.2000 |
| 2770 | 16.2030 | 1.7831 | -.0052 | .0610 | 1.6161 | .5558 | .1285 | 1.9459 | -.5797 | -.0048 | 1.2000 |
| 2771 | 18.1991 | 1.9810 | .1245 | .0386 | 1.7921 | .6842 | .1069 | 2.1612 | -.4384 | -.0264 | 1.2000 |
| 2772 | 20.2118 | 2.1120 | .2247 | .0831 | 1.8974 | .7911 | .1532 | 2.3057 | -.3178 | .0198 | 1.2000 |
| 2773 | 21.7884 | 2.2144 | .3149 | .1193 | 1.9820 | .8787 | .1899 | 2.4206 | -.2186 | .0566 | 1.2000 |
| 2774 | .0485 | .6475 | -.4550 | -.2274 | .6470 | .1235 | -.1610 | .6480 | -1.0582 | -.2943 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 164

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2775 | .166 | 1952 | .06 | -.00 | 100640 | .9403 | -1.2835 | -.4259 | -.0024 | .0023 | .0015 |
| 2776 | .166 | 1945 | -1.81 | -.00 | 100650 | .8314 | -1.3635 | -.4811 | -.0005 | .0021 | -.0034 |
| 2777 | .166 | 1949 | .10 | -.00 | 100647 | .9778 | -1.3655 | -.4494 | -.0000 | .0025 | -.0046 |
| 2778 | .166 | 1949 | 2.01 | -.00 | 100647 | 1.0852 | -1.3139 | -.3997 | -.0025 | .0025 | -.0048 |
| 2779 | .166 | 1952 | 3.96 | -.00 | 100643 | 1.2291 | -1.3329 | -.3701 | -.0020 | .0022 | -.0059 |
| 2780 | .166 | 1932 | 5.96 | -.00 | 100663 | 1.3901 | -1.3643 | -.3388 | -.0019 | .0005 | -.0039 |
| 2781 | .165 | 1919 | 7.99 | -.00 | 100677 | 1.5493 | -1.3820 | -.3108 | -.0008 | .0016 | -.0041 |
| 2782 | .166 | 1945 | 10.05 | -.00 | 100650 | 1.6762 | -1.3703 | -.2786 | -.0006 | .0019 | -.0003 |
| 2783 | .165 | 1925 | 12.15 | -.00 | 100670 | 1.8189 | -1.3888 | -.2462 | -.0001 | .0018 | -.0071 |
| 2784 | .167 | 1959 | 14.24 | .00 | 100637 | 1.9328 | -1.3700 | -.1983 | -.0008 | .0015 | -.0120 |
| 2785 | .166 | 1945 | 16.23 | -.00 | 100643 | 2.0608 | -1.3818 | -.1606 | -.0021 | .0020 | -.0045 |
| 2786 | .165 | 1922 | 18.24 | -.00 | 100667 | 2.2902 | -1.3891 | -.1945 | -.0014 | .0027 | -.0079 |
| 2787 | .166 | 1932 | 20.24 | -.00 | 100660 | 2.4213 | -1.3933 | -.1414 | -.0001 | .0030 | -.0123 |
| 2788 | .166 | 1935 | 21.80 | -.00 | 100657 | 2.5342 | -1.3977 | -.1011 | -.0003 | .0037 | -.0154 |
| 2789 | .166 | 1935 | .07 | -.00 | 100653 | .9399 | -1.2956 | -.4302 | -.0029 | .0022 | -.0017 |

TEST 995 RUN 164

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2775 | .0607 | 25.0081 | 2.5257 | 22.1012 | 1.4353 | 1.4575 | 0.0000 | -1.3765 | .0126 |
| 2776 | -1.8143 | 25.9575 | 2.6214 | 21.9194 | 1.5226 | 1.5462 | 0.0000 | -1.4672 | .0126 |
| 2777 | .1017 | 25.9528 | 2.6175 | 21.9267 | 1.5204 | 1.5440 | 0.0000 | -1.4619 | .0127 |
| 2778 | 2.0068 | 25.2442 | 2.5451 | 22.0644 | 1.4594 | 1.4820 | 0.0000 | -1.3956 | .0127 |
| 2779 | 3.9632 | 25.3619 | 2.5587 | 22.0384 | 1.4674 | 1.4902 | 0.0000 | -1.4030 | .0127 |
| 2780 | 5.9590 | 25.4029 | 2.5603 | 22.0355 | 1.4863 | 1.5093 | 0.0000 | -1.4147 | .0128 |
| 2781 | 7.9895 | 25.4548 | 2.5674 | 22.0219 | 1.5024 | 1.5257 | 0.0000 | -1.4250 | .0132 |
| 2782 | 10.0466 | 25.4903 | 2.5732 | 22.0108 | 1.4848 | 1.5079 | 0.0000 | -1.4025 | .0140 |
| 2783 | 12.1477 | 25.5723 | 2.5804 | 21.9973 | 1.5075 | 1.5309 | 0.0000 | -1.4134 | .0157 |
| 2784 | 14.2357 | 25.6225 | 2.5829 | 21.9925 | 1.4868 | 1.5091 | 0.0000 | -1.3795 | .0176 |
| 2785 | 16.2259 | 25.7211 | 2.5944 | 21.9706 | 1.5051 | 1.5285 | 0.0000 | -1.3859 | .0193 |
| 2786 | 18.2390 | 25.7606 | 2.5998 | 21.9604 | 1.5267 | 1.5504 | 0.0000 | -1.3924 | .0208 |
| 2787 | 20.2422 | 25.8098 | 2.6076 | 21.9455 | 1.5246 | 1.5482 | 0.0000 | -1.3750 | .0230 |
| 2788 | 21.7977 | 25.8423 | 2.6070 | 21.9467 | 1.5238 | 1.5474 | 0.0000 | -1.3579 | .0245 |
| 2789 | .0693 | 25.0280 | 2.5258 | 22.1010 | 1.4546 | 1.4772 | 0.0000 | -1.3885 | .0128 |

TEST 995 RUN 164

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2775 | .0607 | .9416 | -1.2825 | -.4259 | .9401 | .1402 | -.2640 | .9417 | -1.3369 | -.4306 | 1.5000 |
| 2776 | -1.8143 | .7878 | -1.3991 | -.4811 | .8360 | .1201 | -.3094 | .7892 | -1.3563 | -.4760 | 1.5000 |
| 2777 | .1017 | .9802 | -1.3538 | -.4494 | .9775 | .1439 | -.2779 | .9801 | -1.3331 | -.4446 | 1.5000 |
| 2778 | 2.0068 | 1.1305 | -1.2751 | -.3997 | 1.0794 | .1707 | -.2350 | 1.1311 | -1.3054 | -.4017 | 1.5000 |
| 2779 | 3.9632 | 1.3182 | -1.2448 | -.3701 | 1.2168 | .2064 | -.2046 | 1.3189 | -1.2671 | -.3712 | 1.5000 |
| 2780 | 5.9590 | 1.5243 | -1.2126 | -.3388 | 1.3700 | .2528 | -.1712 | 1.5233 | -1.2163 | -.3378 | 1.5000 |
| 2781 | 7.9895 | 1.7264 | -1.1533 | -.3108 | 1.5176 | .3213 | -.1413 | 1.7229 | -1.1414 | -.3079 | 1.5000 |
| 2782 | 10.0466 | 1.8895 | -1.0569 | -.2786 | 1.6305 | .3912 | -.1111 | 1.8882 | -1.0633 | -.2777 | 1.5000 |
| 2783 | 12.1477 | 2.0704 | -.9749 | -.2462 | 1.7532 | .4831 | -.0761 | 2.0640 | -.9609 | -.2427 | 1.5000 |
| 2784 | 14.2357 | 2.2103 | -.8526 | -.1983 | 1.8449 | .5701 | -.0306 | 2.2081 | -.8616 | -.1973 | 1.5000 |
| 2785 | 16.2259 | 2.3648 | -.7509 | -.1606 | 1.9442 | .6750 | .0092 | 2.3578 | -.7433 | -.1575 | 1.5000 |
| 2786 | 18.2390 | 2.6099 | -.6025 | -.1945 | 2.1320 | .8267 | -.0222 | 2.5943 | -.5762 | -.1889 | 1.5000 |
| 2787 | 20.2422 | 2.7538 | -.4695 | -.1414 | 2.2263 | .9388 | .0306 | 2.7374 | -.4479 | -.1360 | 1.5000 |
| 2788 | 21.7977 | 2.8720 | -.3567 | -.1011 | 2.3062 | 1.0336 | .0708 | 2.8547 | -.3379 | -.0959 | 1.5000 |
| 2789 | .0693 | .9415 | -1.2944 | -.4302 | .9397 | .1474 | -.2661 | .9415 | -1.3297 | -.4327 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 165

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2790 | .166 | 1949 | .07 | -.00 | 100650 | 1.0668 | -1.6246 | -.5219 | -.0030 | .0038 | -.0086 |
| 2791 | .167 | 1955 | -1.80 | -.00 | 100647 | .9241 | -1.6152 | -.5504 | -.0034 | .0038 | -.0050 |
| 2792 | .167 | 1965 | .10 | -.00 | 100643 | 1.0578 | -1.6856 | -.5163 | -.0033 | .0041 | -.0073 |
| 2793 | .166 | 1945 | 2.02 | -.00 | 100667 | 1.2045 | -1.6269 | -.4883 | -.0033 | .0039 | -.0083 |
| 2794 | .166 | 1952 | 3.97 | -.00 | 100660 | 1.3426 | -1.6319 | -.4551 | -.0034 | .0034 | -.0092 |
| 2795 | .165 | 1929 | 5.96 | .00 | 100680 | 1.4996 | -1.6623 | -.4222 | -.0047 | .0027 | -.0145 |
| 2796 | .165 | 1929 | 7.99 | -.00 | 100680 | 1.6501 | -1.6663 | -.3874 | -.0030 | .0028 | -.0083 |
| 2797 | .166 | 1952 | 10.06 | -.00 | 100653 | 1.7796 | -1.6454 | -.3518 | -.0032 | .0034 | -.0054 |
| 2798 | .166 | 1949 | 12.15 | -.00 | 100657 | 1.8946 | -1.6464 | -.3197 | -.0024 | .0034 | -.0065 |
| 2799 | .166 | 1942 | 14.25 | -.00 | 100660 | 2.0338 | -1.6475 | -.2721 | -.0036 | .0036 | -.0089 |
| 2800 | .166 | 1932 | 16.24 | -.00 | 100670 | 2.1574 | -1.6541 | -.2281 | -.0045 | .0042 | -.0096 |
| 2801 | .166 | 1942 | 18.24 | -.00 | 100657 | 2.3710 | -1.6297 | -.2566 | -.0047 | .0043 | -.0093 |
| 2802 | .166 | 1942 | 20.25 | -.00 | 100653 | 2.5043 | -1.6334 | -.2008 | -.0037 | .0049 | -.0100 |
| 2803 | .166 | 1945 | 21.71 | -.00 | 100650 | 2.6108 | -1.6337 | -.1622 | -.0032 | .0052 | -.0180 |
| 2804 | .166 | 1949 | .08 | -.00 | 100640 | 1.0456 | -1.5926 | -.5104 | -.0039 | .0039 | -.0073 |
| 2805 | .166 | 1945 | .03 | -.00 | 100647 | .3483 | .0501 | -.0863 | -.0016 | .0002 | -.0004 |

TEST 995 RUN 165

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2790 | .0706 | 28.8996 | 2.9162 | 21.3591 | 1.7768 | 1.8044 | 0.0000 | -1.7319 | .0127 |
| 2791 | -1.7950 | 28.8425 | 2.9872 | 21.3764 | 1.7662 | 1.7936 | 0.0000 | -1.7170 | .0125 |
| 2792 | .1808 | 28.8227 | 2.9077 | 21.3753 | 1.7554 | 1.7826 | 0.0000 | -1.7096 | .0125 |
| 2793 | 2.0196 | 28.7941 | 2.9023 | 21.3856 | 1.7699 | 1.7974 | 0.0000 | -1.7215 | .0124 |
| 2794 | 3.9697 | 28.7769 | 2.9000 | 21.3981 | 1.7634 | 1.7907 | 0.0000 | -1.7104 | .0124 |
| 2795 | 5.9576 | 28.7234 | 2.8971 | 21.3954 | 1.7802 | 1.8078 | 0.0000 | -1.7234 | .0126 |
| 2796 | 7.9919 | 28.7135 | 2.8939 | 21.4016 | 1.7787 | 1.8063 | 0.0000 | -1.7130 | .0129 |
| 2797 | 10.0574 | 28.6873 | 2.8917 | 21.4057 | 1.7552 | 1.7825 | 0.0000 | -1.6807 | .0138 |
| 2798 | 12.1497 | 28.6657 | 2.8840 | 21.4204 | 1.7547 | 1.7820 | 0.0000 | -1.6648 | .0156 |
| 2799 | 14.2457 | 28.6052 | 2.8829 | 21.4224 | 1.7567 | 1.7840 | 0.0000 | -1.6553 | .0175 |
| 2800 | 16.2352 | 28.6073 | 2.8848 | 21.4188 | 1.7666 | 1.7940 | 0.0000 | -1.6499 | .0192 |
| 2801 | 18.2418 | 28.5962 | 2.8798 | 21.4284 | 1.7554 | 1.7827 | 0.0000 | -1.6192 | .0207 |
| 2802 | 20.2533 | 28.5805 | 2.8783 | 21.4312 | 1.7532 | 1.7804 | 0.0000 | -1.5982 | .0230 |
| 2803 | 21.7076 | 28.5601 | 2.8770 | 21.4337 | 1.7497 | 1.7769 | 0.0000 | -1.5788 | .0245 |
| 2804 | .0766 | 28.5127 | 2.8726 | 21.4420 | 1.7424 | 1.7694 | 0.0000 | -1.6923 | .0123 |
| 2805 | .0260 | 0.0000 | .9725 | 25.0522 | 0.0000 | 0.0000 | 0.0000 | .0249 | .0080 |

TEST 995 RUN 165

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2790 | .0706 | 1.0688 | -1.6233 | -.5219 | 1.0666 | .1488 | -.3214 | 1.0688 | -1.6317 | -.5214 | 1.0000 |
| 2791 | -1.7950 | .8731 | -1.6434 | -.5504 | .9284 | .1094 | -.3511 | .8729 | -1.6622 | -.5511 | 1.0000 |
| 2792 | .1808 | 1.0607 | -1.6837 | -.5163 | 1.0576 | .1392 | -.3183 | 1.0607 | -1.6333 | -.5162 | 1.0000 |
| 2793 | 2.0196 | 1.2611 | -1.5834 | -.4883 | 1.1987 | .1729 | -.2886 | 1.2612 | -1.5985 | -.4886 | 1.0000 |
| 2794 | 3.9697 | 1.4524 | -1.5350 | -.4551 | 1.3303 | .2117 | -.2561 | 1.4538 | -1.5565 | -.4561 | 1.0000 |
| 2795 | 5.9576 | 1.6640 | -1.4976 | -.4222 | 1.4792 | .2604 | -.2214 | 1.6632 | -1.5026 | -.4214 | 1.0000 |
| 2796 | 7.9919 | 1.8657 | -1.4207 | -.3874 | 1.6184 | .3278 | -.1867 | 1.8648 | -1.4275 | -.3867 | 1.0000 |
| 2797 | 10.0574 | 2.0396 | -1.3093 | -.3518 | 1.7331 | .4051 | -.1538 | 2.0426 | -1.3401 | -.3538 | 1.0000 |
| 2798 | 12.1497 | 2.1987 | -1.2107 | -.3197 | 1.8294 | .4891 | -.1217 | 2.2025 | -1.2437 | -.3217 | 1.0000 |
| 2799 | 14.2457 | 2.3759 | -1.0906 | -.2721 | 1.9436 | .5885 | -.0739 | 2.3798 | -1.1294 | -.2738 | 1.0000 |
| 2800 | 16.2352 | 2.5339 | -.9850 | -.2281 | 2.0400 | .6920 | -.0288 | 2.5355 | -1.0098 | -.2287 | 1.0000 |
| 2801 | 18.2418 | 2.7620 | -.8056 | -.2566 | 2.2125 | .8409 | -.0585 | 2.7673 | -.8426 | -.2585 | 1.0000 |
| 2802 | 20.2533 | 2.9149 | -.6655 | -.2008 | 2.3080 | .9564 | -.0030 | 2.9216 | -.7065 | -.2029 | 1.0000 |
| 2803 | 21.7076 | 3.0299 | -.5522 | -.1622 | 2.3828 | 1.0489 | .0352 | 3.0384 | -.5979 | -.1647 | 1.0000 |
| 2804 | .0766 | 1.0477 | -1.5913 | -.5104 | 1.0454 | .1388 | -.3138 | 1.0477 | -1.6337 | -.5138 | 1.0000 |
| 2805 | .0260 | .3483 | .0503 | -.0863 | .3483 | .0174 | -.0863 | .3483 | .0423 | -.0863 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 168

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2818 | .166 | 1932 | .01 | -.00 | 100643 | .3011 | .0560 | -.0705 | -.0013 | .0003 | -.0049 |
| 2819 | .166 | 1935 | -1.87 | -.00 | 100640 | .1631 | .0608 | -.1064 | -.0017 | .0001 | -.0012 |
| 2820 | .167 | 1955 | .04 | .00 | 100630 | .2930 | .0592 | -.0682 | -.0018 | .0004 | -.0092 |
| 2821 | .166 | 1935 | 1.94 | -.00 | 100640 | .4263 | .0550 | -.0380 | -.0014 | .0005 | -.0057 |
| 2822 | .166 | 1949 | 3.89 | .00 | 100626 | .5592 | .0467 | -.0007 | -.0021 | .0000 | -.0086 |
| 2823 | .166 | 1949 | 5.90 | .00 | 100626 | .6913 | .0337 | .0372 | -.0013 | -.0009 | -.0054 |
| 2824 | .165 | 1925 | 7.94 | -.00 | 100643 | .8102 | .0233 | .0823 | -.0011 | -.0004 | -.0031 |
| 2825 | .166 | 1942 | 9.99 | -.00 | 100626 | .9327 | .0168 | .1227 | -.0018 | -.0001 | -.0034 |
| 2826 | .166 | 1932 | 12.11 | -.00 | 100633 | 1.0458 | .0146 | .1624 | -.0015 | .0001 | .0004 |
| 2827 | .166 | 1942 | 14.19 | .00 | 100619 | 1.1493 | .0154 | .2131 | -.0009 | -.0001 | -.0038 |
| 2828 | .165 | 1925 | 16.18 | -.00 | 100629 | 1.2661 | .0195 | .2565 | -.0019 | .0006 | -.0010 |
| 2829 | .166 | 1932 | 18.19 | -.00 | 100623 | 1.4072 | .0464 | .2497 | -.0021 | .0002 | -.0039 |
| 2830 | .165 | 1925 | 20.17 | -.00 | 100623 | 1.5619 | .0422 | .2872 | -.0013 | .0009 | -.0073 |
| 2831 | .166 | 1939 | 21.70 | -.00 | 100609 | 1.6761 | .0366 | .3209 | -.0002 | .0018 | -.0074 |
| 2832 | .167 | 1955 | .03 | -.00 | 100593 | .2963 | .0707 | -.0707 | -.0008 | .0003 | -.0051 |

TEST 995 RUN 168

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2818 | .0142 | 0.0000 | .9786 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0195 | .0080 |
| 2819 | -1.8677 | 0.0000 | .9798 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0184 | .0081 |
| 2820 | .0441 | 0.0000 | .9797 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0080 |
| 2821 | 1.9449 | 0.0000 | .9800 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0181 | .0079 |
| 2822 | 3.8874 | 0.0000 | .9797 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0183 | .0079 |
| 2823 | 5.9035 | 0.0000 | .9798 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0182 | .0077 |
| 2824 | 7.9350 | 0.0000 | .9801 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0180 | .0075 |
| 2825 | 9.9913 | 0.0000 | .9791 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0187 | .0077 |
| 2826 | 12.1055 | 0.0000 | .9791 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0186 | .0080 |
| 2827 | 14.1919 | 0.0000 | .9775 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0198 | .0079 |
| 2828 | 16.1796 | 0.0000 | .9764 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0207 | .0079 |
| 2829 | 18.1932 | 0.0000 | .9686 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0272 | .0098 |
| 2830 | 20.1733 | 0.0000 | .9669 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0284 | .0102 |
| 2831 | 21.7023 | 0.0000 | .9663 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0285 | .0103 |
| 2832 | .0302 | 0.0000 | .9804 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0177 | .0080 |

TEST 995 RUN 168

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2818 | .0142 | .3011 | .0560 | -.0705 | .3011 | .0286 | -.0705 | .3011 | .0481 | -.0705 | 1.0000 |
| 2819 | -1.8677 | .1658 | .0554 | -.1064 | .1658 | .0296 | -.1064 | .1658 | .0474 | -.1064 | 1.0000 |
| 2820 | .0441 | .2929 | .0594 | -.0682 | .2929 | .0331 | -.0682 | .2929 | .0514 | -.0682 | 1.0000 |
| 2821 | 1.9449 | .4242 | .0695 | -.0380 | .4242 | .0434 | -.0380 | .4242 | .0615 | -.0380 | 1.0000 |
| 2822 | 3.8874 | .5548 | .0845 | -.0007 | .5548 | .0583 | -.0007 | .5548 | .0766 | -.0007 | 1.0000 |
| 2823 | 5.9035 | .6842 | .1046 | .0372 | .6842 | .0787 | .0372 | .6842 | .0969 | .0372 | 1.0000 |
| 2824 | 7.9350 | .7993 | .1349 | .0823 | .7993 | .1095 | .0823 | .7993 | .1275 | .0823 | 1.0000 |
| 2825 | 9.9913 | .9156 | .1783 | .1227 | .9156 | .1520 | .1227 | .9156 | .1787 | .1227 | 1.0000 |
| 2826 | 12.1055 | 1.0195 | .2336 | .1624 | 1.0195 | .2070 | .1624 | 1.0195 | .2256 | .1624 | 1.0000 |
| 2827 | 14.1919 | 1.1104 | .2967 | .2131 | 1.1104 | .2690 | .2131 | 1.1104 | .2888 | .2131 | 1.0000 |
| 2828 | 16.1796 | 1.2106 | .3715 | .2565 | 1.2106 | .3429 | .2565 | 1.2106 | .3636 | .2565 | 1.0000 |
| 2829 | 18.1932 | 1.3223 | .4634 | .2497 | 1.3223 | .4464 | .2497 | 1.3223 | .4736 | .2497 | 1.0000 |
| 2830 | 20.1733 | 1.4515 | .5783 | .2872 | 1.4515 | .5396 | .2872 | 1.4515 | .5681 | .2872 | 1.0000 |
| 2831 | 21.7023 | 1.5438 | .6538 | .3209 | 1.5438 | .6158 | .3209 | 1.5438 | .6435 | .3209 | 1.0000 |
| 2832 | .0302 | .2962 | .0708 | -.0707 | .2962 | .0452 | -.0707 | .2962 | .0629 | -.0707 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 169

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2833 | .166 | 1942 | .02 | .00 | 100606 | .3032 | .0708 | -.0692 | -.0016 | .0001 | -.0072 |
| 2834 | .166 | 1945 | .04 | -.00 | 100596 | .6595 | -.9246 | -.2761 | -.0031 | .0035 | -.0150 |
| 2835 | .166 | 1932 | -1.83 | -.00 | 100609 | .5163 | -.9223 | -.3052 | -.0036 | .0035 | -.0125 |
| 2836 | .166 | 1932 | .07 | -.00 | 100609 | .6560 | -.9131 | -.2723 | -.0028 | .0037 | -.0153 |
| 2837 | .166 | 1945 | 1.99 | -.00 | 100596 | .7878 | -.9833 | -.2400 | -.0022 | .0035 | -.0130 |
| 2838 | .165 | 1922 | 3.92 | -.00 | 100616 | .9339 | -.9262 | -.2100 | -.0036 | .0032 | -.0101 |
| 2839 | .166 | 1935 | 5.93 | -.00 | 100599 | 1.0824 | -.9380 | -.1772 | -.0024 | .0020 | -.0105 |
| 2840 | .165 | 1919 | 7.95 | -.00 | 100619 | 1.2432 | -.9563 | -.1464 | -.0025 | .0029 | -.0105 |
| 2841 | .165 | 1912 | 10.03 | -.00 | 100629 | 1.3885 | -.9678 | -.1196 | -.0030 | .0032 | -.0123 |
| 2842 | .166 | 1945 | 12.13 | -.00 | 100596 | 1.5166 | -.9568 | -.0830 | -.0022 | .0037 | -.0106 |
| 2843 | .167 | 1959 | 14.21 | -.00 | 100582 | 1.6449 | -.9567 | -.0409 | -.0021 | .0039 | -.0100 |
| 2844 | .167 | 1959 | 16.22 | -.00 | 100582 | 1.7803 | -.9597 | -.0038 | -.0034 | .0050 | -.0058 |
| 2845 | .166 | 1952 | 18.22 | -.00 | 100589 | 2.0015 | -.9499 | -.0367 | -.0037 | .0046 | -.0138 |
| 2846 | .165 | 1925 | 20.20 | -.00 | 100616 | 2.1441 | -.9374 | .0102 | -.0025 | .0053 | -.0163 |
| 2847 | .165 | 1912 | 21.76 | -.00 | 100629 | 2.2717 | -.9630 | .0423 | -.0022 | .0058 | -.0211 |
| 2848 | .167 | 1955 | .06 | .00 | 100593 | .6539 | -.9208 | -.2750 | -.0026 | .0036 | -.0174 |

TEST 995 RUN 169

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2833 | .0168 | 0.0000 | .9805 | 17.2080 | 0.0000 | 0.0000 | 0.0000 | .0177 | .0081 |
| 2834 | .0405 | 20.6671 | 2.0668 | 17.2080 | 1.0638 | 1.0795 | 0.0000 | -.9653 | .0137 |
| 2835 | -1.8277 | 20.5499 | 2.0589 | 17.2000 | 1.0618 | 1.0783 | 0.0000 | -.9644 | .0137 |
| 2836 | .0749 | 20.3852 | 2.0427 | 17.2000 | 1.0477 | 1.0639 | 0.0000 | -.9501 | .0137 |
| 2837 | 1.9866 | 20.2729 | 2.0311 | 17.2000 | 1.0319 | 1.0479 | 0.0000 | -.9324 | .0135 |
| 2838 | 3.9238 | 20.2782 | 2.0290 | 17.2000 | 1.0441 | 1.0603 | 0.0000 | -.9403 | .0135 |
| 2839 | 5.9260 | 20.3047 | 2.0365 | 17.2000 | 1.0411 | 1.0572 | 0.0000 | -.9377 | .0137 |
| 2840 | 7.9589 | 20.3380 | 2.0421 | 17.2000 | 1.0543 | 1.0707 | 0.0000 | -.9469 | .0139 |
| 2841 | 10.0259 | 20.3917 | 2.0441 | 17.2000 | 1.0618 | 1.0783 | 0.0000 | -.9468 | .0143 |
| 2842 | 12.1346 | 20.4338 | 2.0461 | 17.2000 | 1.0469 | 1.0632 | 0.0000 | -.9255 | .0148 |
| 2843 | 14.2130 | 20.4600 | 2.0543 | 17.2000 | 1.0444 | 1.0606 | 0.0000 | -.9185 | .0156 |
| 2844 | 16.2201 | 20.5104 | 2.0622 | 17.2000 | 1.0503 | 1.0666 | 0.0000 | -.9165 | .0169 |
| 2845 | 18.2224 | 20.4722 | 2.0498 | 17.2000 | 1.0482 | 1.0645 | 0.0000 | -.8991 | .0175 |
| 2846 | 20.2029 | 20.0886 | 2.0190 | 17.2000 | 1.0331 | 1.0492 | 0.0000 | -.8744 | .0181 |
| 2847 | 21.7584 | 20.2968 | 2.0344 | 17.2000 | 1.0566 | 1.0730 | 0.0000 | -.8847 | .0191 |
| 2848 | .0566 | 20.4545 | 2.0568 | 17.2080 | 1.0495 | 1.0658 | 0.0000 | -.9514 | .0139 |

TEST 995 RUN 169

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2833 | .0168 | .3031 | .0709 | -.0692 | .3031 | .0452 | -.0692 | .3031 | .0629 | -.0692 | 1.0000 |
| 2834 | .0405 | .6601 | -.9242 | -.2761 | .6594 | .1252 | -.1562 | .6602 | -1.0565 | -.2695 | 1.2000 |
| 2835 | -1.8277 | .4866 | -.9383 | -.3052 | .5205 | .1892 | -.1854 | .4828 | -1.0718 | -.3137 | 1.2000 |
| 2836 | .0749 | .6572 | -.9123 | -.2723 | .6558 | .1217 | -.1541 | .6574 | -1.0600 | -.2875 | 1.2000 |
| 2837 | 1.9866 | .8178 | -.8755 | -.2400 | .7820 | .1423 | -.1236 | .8238 | -1.0387 | -.2569 | 1.2000 |
| 2838 | 3.9238 | .9951 | -.8601 | -.2100 | .9237 | .1688 | -.0922 | 1.0045 | -1.0109 | -.2255 | 1.2000 |
| 2839 | 5.9260 | 1.1735 | -.8212 | -.1772 | 1.0660 | .2086 | -.0598 | 1.1880 | -.9747 | -.1931 | 1.2000 |
| 2840 | 7.9589 | 1.3635 | -.7752 | -.1464 | 1.2177 | .2551 | -.0274 | 1.3811 | -.9152 | -.1607 | 1.2000 |
| 2841 | 10.0259 | 1.5358 | -.7113 | -.1196 | 1.3509 | .3200 | .0002 | 1.5566 | -.8436 | -.1331 | 1.2000 |
| 2842 | 12.1346 | 1.6839 | -.6166 | -.0830 | 1.4638 | .3921 | .0351 | 1.7122 | -.7631 | -.0982 | 1.2000 |
| 2843 | 14.2130 | 1.8294 | -.5236 | -.0409 | 1.5730 | .4732 | .0769 | 1.8631 | -.6722 | -.0564 | 1.2000 |
| 2844 | 16.2201 | 1.9775 | -.4242 | -.0038 | 1.6841 | .5673 | .1147 | 2.0142 | -.5673 | -.0186 | 1.2000 |
| 2845 | 18.2224 | 2.1982 | -.2764 | -.0367 | 1.8704 | .7017 | .0815 | 2.2399 | -.4207 | -.0518 | 1.2000 |
| 2846 | 20.2029 | 2.3359 | -.1393 | .0102 | 1.9791 | .8121 | .1268 | 2.3872 | -.2968 | -.0065 | 1.2000 |
| 2847 | 21.7584 | 2.4668 | -.0523 | .0423 | 2.0752 | .9100 | .1615 | 2.5132 | -.1875 | .0282 | 1.2000 |
| 2848 | .0566 | .6548 | -.9202 | -.2750 | .6538 | .1154 | -.1566 | .6549 | -1.0663 | -.2899 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 170

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2849 | .167 | 1955 | .05 | -.00 | 100599 | .7665 | -1.3633 | -.3488 | -.0048 | .0040 | -.0065 |
| 2850 | .167 | 1955 | -1.82 | -.00 | 100599 | .6072 | -1.3716 | -.3839 | -.0052 | .0044 | -.0106 |
| 2851 | .167 | 1955 | .08 | -.00 | 100603 | .7498 | -1.3723 | -.3542 | -.0050 | .0046 | -.0131 |
| 2852 | .166 | 1949 | 1.99 | -.00 | 100609 | .8809 | -1.3447 | -.3197 | -.0041 | .0045 | -.0123 |
| 2853 | .166 | 1949 | 3.92 | -.00 | 100606 | 1.0318 | -1.3585 | -.2912 | -.0048 | .0043 | -.0163 |
| 2854 | .164 | 1982 | 5.94 | -.00 | 100653 | 1.1927 | -1.4107 | -.2650 | -.0046 | .0034 | -.0146 |
| 2855 | .165 | 1922 | 7.97 | -.00 | 100626 | 1.3478 | -1.4100 | -.2269 | -.0042 | .0038 | -.0122 |
| 2856 | .166 | 1939 | 10.04 | -.00 | 100609 | 1.4910 | -1.4025 | -.1982 | -.0048 | .0042 | -.0126 |
| 2857 | .165 | 1925 | 12.14 | -.00 | 100623 | 1.6145 | -1.4169 | -.1635 | -.0041 | .0045 | -.0124 |
| 2858 | .166 | 1949 | 14.23 | -.00 | 100592 | 1.7386 | -1.4070 | -.1175 | -.0049 | .0046 | -.0113 |
| 2859 | .166 | 1949 | 16.22 | -.00 | 100592 | 1.8673 | -1.4085 | -.0791 | -.0068 | .0050 | -.0142 |
| 2860 | .166 | 1945 | 18.23 | -.00 | 100599 | 2.0845 | -1.4022 | -.1084 | -.0067 | .0051 | -.0138 |
| 2861 | .166 | 1952 | 20.22 | -.00 | 100596 | 2.2261 | -1.4062 | -.0661 | -.0054 | .0056 | -.0182 |
| 2862 | .165 | 1929 | 21.69 | -.00 | 100619 | 2.3559 | -1.4350 | -.0389 | -.0046 | .0062 | -.0220 |
| 2863 | .166 | 1945 | .02 | -.00 | 100596 | .7517 | -1.3936 | -.3534 | -.0049 | .0048 | -.0163 |

TEST 995 RUN 170

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2849 | .0514 | 25.6368 | 2.5789 | 17.2000 | 1.4881 | 1.5112 | 0.0000 | -1.4215 | .0155 |
| 2850 | -1.8150 | 25.7184 | 2.5884 | 17.2000 | 1.4955 | 1.5187 | 0.0000 | -1.4294 | .0157 |
| 2851 | .0824 | 25.7467 | 2.5770 | 17.2000 | 1.4946 | 1.5178 | 0.0000 | -1.4199 | .0157 |
| 2852 | 1.9922 | 25.3468 | 2.5410 | 17.2000 | 1.4664 | 1.4892 | 0.0000 | -1.3914 | .0154 |
| 2853 | 3.9233 | 25.3911 | 2.5479 | 17.2000 | 1.4728 | 1.4949 | 0.0000 | -1.3952 | .0152 |
| 2854 | 5.9443 | 25.3714 | 2.5519 | 17.2000 | 1.5073 | 1.5307 | 0.0000 | -1.4290 | .0156 |
| 2855 | 7.9675 | 25.4472 | 2.5581 | 17.2000 | 1.4981 | 1.5213 | 0.0000 | -1.4135 | .0157 |
| 2856 | 10.0394 | 25.5344 | 2.5615 | 17.2000 | 1.4918 | 1.5150 | 0.0000 | -1.3963 | .0160 |
| 2857 | 12.1434 | 25.5201 | 2.5629 | 17.2000 | 1.5020 | 1.5253 | 0.0000 | -1.3971 | .0172 |
| 2858 | 14.2250 | 25.6391 | 2.5716 | 17.2000 | 1.4936 | 1.5168 | 0.0000 | -1.3761 | .0186 |
| 2859 | 16.2241 | 25.6208 | 2.5779 | 17.2000 | 1.4941 | 1.5173 | 0.0000 | -1.3605 | .0201 |
| 2860 | 18.2288 | 25.6675 | 2.5802 | 17.2000 | 1.5003 | 1.5236 | 0.0000 | -1.3582 | .0210 |
| 2861 | 20.2204 | 25.7012 | 2.5812 | 17.2000 | 1.4981 | 1.5213 | 0.0000 | -1.3380 | .0226 |
| 2862 | 21.6916 | 25.7991 | 2.5910 | 17.2000 | 1.5240 | 1.5476 | 0.0000 | -1.3494 | .0236 |
| 2863 | .0154 | 25.8227 | 2.5956 | 17.2000 | 1.5147 | 1.5383 | 0.0000 | -1.4438 | .0156 |

TEST 995 RUN 170

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2849 | .0514 | .7677 | -1.3626 | -.3488 | .7664 | .1180 | -.1889 | .7677 | -1.3671 | -.3476 | 1.5000 |
| 2850 | -1.8150 | .5634 | -1.3981 | -.3839 | .6108 | .0889 | -.2152 | .5640 | -1.3874 | -.3818 | 1.5000 |
| 2851 | .0824 | .7518 | -1.3712 | -.3542 | .7496 | .1077 | -.1855 | .7517 | -1.3693 | -.3522 | 1.5000 |
| 2852 | 1.9922 | .9271 | -1.3132 | -.3197 | .8761 | .1369 | -.1542 | .9275 | -1.3393 | -.3209 | 1.5000 |
| 2853 | 3.9233 | 1.1223 | -1.2847 | -.2912 | 1.0216 | .1607 | -.1251 | 1.1226 | -1.3049 | -.2917 | 1.5000 |
| 2854 | 5.9443 | 1.3323 | -1.2796 | -.2650 | 1.1762 | .2040 | -.0949 | 1.3292 | -1.2652 | -.2616 | 1.5000 |
| 2855 | 7.9675 | 1.5294 | -1.2097 | -.2269 | 1.3218 | .2581 | -.0579 | 1.5265 | -1.2047 | -.2245 | 1.5000 |
| 2856 | 10.0394 | 1.7126 | -1.1211 | -.1982 | 1.4526 | .3318 | -.0299 | 1.7181 | -1.1226 | -.1966 | 1.5000 |
| 2857 | 12.1434 | 1.8764 | -1.0456 | -.1635 | 1.5684 | .4057 | .0060 | 1.8712 | -1.0384 | -.1607 | 1.5000 |
| 2858 | 14.2250 | 2.0318 | -.9367 | -.1175 | 1.6640 | .4925 | .0510 | 2.0270 | -.9393 | -.1157 | 1.5000 |
| 2859 | 16.2241 | 2.1865 | -.8307 | -.0791 | 1.7690 | .5838 | .0895 | 2.1817 | -.8344 | -.0772 | 1.5000 |
| 2860 | 18.2288 | 2.4185 | -.6798 | -.1084 | 1.9492 | .7242 | .0608 | 2.4112 | -.6788 | -.1058 | 1.5000 |
| 2861 | 20.2204 | 2.5749 | -.5502 | -.0661 | 2.0571 | .8338 | .1029 | 2.5677 | -.5530 | -.0637 | 1.5000 |
| 2862 | 21.6916 | 2.7195 | -.4626 | -.0389 | 2.1562 | .9298 | .1331 | 2.7821 | -.4426 | -.0336 | 1.5000 |
| 2863 | .0154 | .7521 | -1.3934 | -.3534 | .7517 | .1057 | -.1825 | .7521 | -1.3714 | -.3491 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 171

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2865 | .167 | 1955 | .08 | .00 | 100586 | .8602 | -1.5988 | -.4318 | -.0020 | .0044 | -.0179 |
| 2866 | .166 | 1942 | -1.82 | -.00 | 100592 | .7236 | -1.6055 | -.4634 | -.0022 | .0043 | -.0133 |
| 2867 | .166 | 1949 | .08 | -.00 | 100586 | .8573 | -1.5987 | -.4313 | -.0019 | .0044 | -.0157 |
| 2868 | .167 | 1955 | 1.98 | -.00 | 100579 | .9940 | -1.5964 | -.3982 | -.0023 | .0044 | -.0152 |
| 2869 | .166 | 1942 | 3.95 | -.00 | 100599 | 1.1398 | -1.6150 | -.3679 | -.0018 | .0044 | -.0164 |
| 2870 | .167 | 1962 | 5.95 | -.00 | 100579 | 1.2832 | -1.6085 | -.3303 | -.0020 | .0031 | -.0129 |
| 2871 | .167 | 1955 | 7.96 | -.00 | 100589 | 1.4372 | -1.6200 | -.2969 | -.0013 | .0036 | -.0120 |
| 2872 | .165 | 1929 | 10.05 | -.00 | 100619 | 1.6067 | -1.6415 | -.2650 | -.0010 | .0056 | .0061 |
| 2873 | .166 | 1935 | 12.14 | .00 | 100616 | 1.7169 | -1.6336 | -.2371 | -.0013 | .0038 | -.0196 |
| 2874 | .166 | 1939 | 14.23 | -.00 | 100616 | 1.8398 | -1.6279 | -.1966 | -.0013 | .0045 | -.0119 |
| 2875 | .166 | 1945 | 16.22 | -.00 | 100606 | 1.9756 | -1.6183 | -.1554 | -.0023 | .0049 | -.0149 |
| 2876 | .166 | 1939 | 18.23 | -.00 | 100616 | 2.1900 | -1.6082 | -.1873 | -.0026 | .0051 | -.0181 |
| 2877 | .166 | 1932 | 20.22 | -.00 | 100626 | 2.3458 | -1.6115 | -.1410 | -.0012 | .0057 | -.0239 |
| 2878 | .166 | 1935 | 21.69 | .00 | 100623 | 2.4622 | -1.6174 | -.1088 | -.0015 | .0058 | -.0306 |
| 2879 | .166 | 1942 | .05 | -.00 | 100606 | .8425 | -1.5679 | -.4185 | -.0017 | .0044 | -.0136 |
| 2880 | .166 | 1949 | .02 | -.00 | 100606 | .2926 | .0591 | -.0719 | -.0012 | .0003 | -.0026 |

TEST 995 RUN 171

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2865 | .0824 | 28.3324 | 2.8577 | 17.2000 | 1.7246 | 1.7514 | 0.0000 | -1.6722 | .0152 |
| 2866 | -1.8227 | 28.2868 | 2.8533 | 17.2000 | 1.7340 | 1.7609 | 0.0000 | -1.6790 | .0153 |
| 2867 | .0774 | 28.2487 | 2.8503 | 17.2000 | 1.7248 | 1.7515 | 0.0000 | -1.6713 | .0152 |
| 2868 | 1.9845 | 28.2251 | 2.8453 | 17.2000 | 1.7149 | 1.7415 | 0.0000 | -1.6600 | .0151 |
| 2869 | 3.9478 | 28.1646 | 2.8426 | 17.2000 | 1.7217 | 1.7485 | 0.0000 | -1.6663 | .0149 |
| 2870 | 5.9528 | 28.1426 | 2.8348 | 17.2000 | 1.7036 | 1.7301 | 0.0000 | -1.6372 | .0149 |
| 2871 | 7.9618 | 28.1192 | 2.8356 | 17.2000 | 1.7072 | 1.7336 | 0.0000 | -1.6365 | .0151 |
| 2872 | 10.0487 | 28.1028 | 2.8292 | 17.2000 | 1.7292 | 1.7561 | 0.0000 | -1.6441 | .0157 |
| 2873 | 12.1366 | 28.0812 | 2.8282 | 17.2000 | 1.7205 | 1.7472 | 0.0000 | -1.6259 | .0168 |
| 2874 | 14.2312 | 28.0340 | 2.8255 | 17.2000 | 1.7135 | 1.7401 | 0.0000 | -1.6069 | .0185 |
| 2875 | 16.2155 | 27.9933 | 2.8200 | 17.2000 | 1.7041 | 1.7305 | 0.0000 | -1.5815 | .0200 |
| 2876 | 18.2253 | 27.9515 | 2.8190 | 17.2000 | 1.7062 | 1.7327 | 0.0000 | -1.5690 | .0209 |
| 2877 | 20.2172 | 27.9060 | 2.8134 | 17.2000 | 1.7088 | 1.7353 | 0.0000 | -1.5508 | .0227 |
| 2878 | 21.6940 | 27.8975 | 2.8105 | 17.2000 | 1.7038 | 1.7303 | 0.0000 | -1.5305 | .0237 |
| 2879 | .0537 | 27.8059 | 2.8032 | 17.2000 | 1.6915 | 1.7178 | 0.0000 | -1.6346 | .0151 |
| 2880 | .0183 | 0.0000 | .9673 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0295 | .0080 |

TEST 995 RUN 171

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2865 | .0824 | .8625 | -1.5975 | -.4318 | .8600 | .1119 | -.2373 | .8626 | -1.6606 | -.4372 | 1.8000 |
| 2866 | -1.8227 | .6722 | -1.6277 | -.4634 | .7273 | .0901 | -.2677 | .6710 | -1.6815 | -.4677 | 1.8000 |
| 2867 | .0774 | .8595 | -1.5975 | -.4313 | .8571 | .1121 | -.2368 | .8595 | -1.6604 | -.4367 | 1.8000 |
| 2868 | 1.9845 | 1.0487 | -1.5610 | -.3982 | .9893 | .1378 | -.2048 | 1.0507 | -1.6336 | -.4047 | 1.8000 |
| 2869 | 3.9478 | 1.2475 | -1.5327 | -.3679 | 1.1290 | .1700 | -.1736 | 1.2510 | -1.5983 | -.3736 | 1.8000 |
| 2870 | 5.9528 | 1.4431 | -1.4667 | -.3303 | 1.2664 | .2128 | -.1381 | 1.4502 | -1.5501 | -.3381 | 1.8000 |
| 2871 | 7.9618 | 1.6477 | -1.4053 | -.2969 | 1.4113 | .2703 | -.1043 | 1.6568 | -1.4851 | -.3043 | 1.8000 |
| 2872 | 10.0487 | 1.8684 | -1.3360 | -.2650 | 1.5667 | .3518 | -.0699 | 1.8768 | -1.3943 | -.2699 | 1.8000 |
| 2873 | 12.1366 | 2.0219 | -1.2361 | -.2371 | 1.6602 | .4291 | -.0430 | 2.0329 | -1.3038 | -.2430 | 1.8000 |
| 2874 | 14.2312 | 2.1836 | -1.1257 | -.1966 | 1.7624 | .5167 | -.0033 | 2.1981 | -1.2014 | -.2033 | 1.8000 |
| 2875 | 16.2155 | 2.3489 | -1.0023 | -.1554 | 1.8731 | .6141 | .0368 | 2.3680 | -1.0879 | -.1631 | 1.8000 |
| 2876 | 18.2253 | 2.5031 | -.8426 | -.1873 | 2.0495 | .7571 | .0051 | 2.6039 | -.9265 | -.1948 | 1.8000 |
| 2877 | 20.2172 | 2.7582 | -.7016 | -.1410 | 2.1677 | .8792 | .0518 | 2.7802 | -.7841 | -.1482 | 1.8000 |
| 2878 | 21.6940 | 2.8856 | -.5927 | -.1088 | 2.2558 | .9668 | .0834 | 2.9110 | -.6802 | -.1165 | 1.8000 |
| 2879 | .0537 | .8440 | -1.5671 | -.4185 | .8424 | .1093 | -.2277 | .8440 | -1.6632 | -.4276 | 1.8000 |
| 2880 | .0183 | .2926 | .0592 | -.0719 | .2926 | .8216 | -.0719 | .2926 | .0512 | -.0719 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 172

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2892 | .166 | 1939 | .01 | .00 | 100318 | .3905 | .0605 | -.1119 | -.0012 | -.0003 | -.0104 |
| 2893 | .166 | 1932 | -1.85 | .00 | 100325 | .2627 | .0626 | -.1452 | -.0014 | -.0000 | -.0109 |
| 2894 | .166 | 1939 | .05 | .00 | 100321 | .3920 | .0596 | -.1112 | -.0006 | -.0005 | -.0107 |
| 2895 | .167 | 1952 | 1.96 | .00 | 100305 | .5237 | .0527 | -.0768 | -.0016 | -.0005 | -.0107 |
| 2896 | .166 | 1925 | 3.91 | .00 | 100338 | .6505 | .0420 | -.0400 | -.0014 | -.0005 | -.0091 |
| 2897 | .165 | 1919 | 5.91 | .00 | 100345 | .7659 | .0260 | -.0005 | -.0005 | -.0008 | -.0100 |
| 2898 | .166 | 1925 | 7.93 | .00 | 100338 | .9005 | .0177 | .0411 | -.0009 | -.0005 | -.0109 |
| 2899 | .166 | 1932 | 9.99 | .00 | 100331 | 1.0061 | .0113 | .0898 | -.0018 | -.0003 | -.0099 |
| 2900 | .165 | 1919 | 12.09 | -.00 | 100345 | 1.1029 | .0091 | .1362 | -.0008 | -.0004 | -.0052 |
| 2901 | .166 | 1925 | 14.15 | .00 | 100338 | 1.2129 | .0114 | .1851 | -.0007 | .0003 | -.0137 |
| 2903 | .166 | 1935 | 16.17 | .00 | 100335 | 1.3079 | .0048 | .2322 | -.0028 | .0002 | -.0091 |
| 2904 | .166 | 1945 | 18.16 | -.00 | 100352 | 1.4251 | .0313 | .2274 | -.0015 | -.0000 | -.0043 |
| 2905 | .164 | 1892 | 20.16 | .00 | 100365 | 1.5877 | .0272 | .2675 | -.0005 | -.0010 | -.0140 |
| 2906 | .165 | 1916 | 21.62 | -.00 | 100369 | 1.6896 | .0229 | .3005 | .0000 | .0004 | -.0021 |
| 2907 | .166 | 1925 | .04 | .00 | 100369 | .3946 | .0560 | -.1130 | -.0002 | -.0005 | -.0097 |

TEST 995 RUN 172

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2892 | .0130 | 0.0000 | .9844 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0142 | .0081 |
| 2893 | -1.8472 | 0.0000 | .9833 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0151 | .0083 |
| 2894 | .0479 | 0.0000 | .9844 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0141 | .0082 |
| 2895 | 1.9574 | 0.0000 | .9844 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0141 | .0081 |
| 2896 | 3.9077 | 0.0000 | .9851 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0136 | .0081 |
| 2897 | 5.9111 | 0.0000 | .9853 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0134 | .0080 |
| 2898 | 7.9346 | 0.0000 | .9852 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0134 | .0078 |
| 2899 | 9.9893 | 0.0000 | .9852 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0133 | .0081 |
| 2900 | 12.0874 | 0.0000 | .9843 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0141 | .0082 |
| 2901 | 14.1529 | 0.0000 | .9829 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0152 | .0083 |
| 2903 | 16.1722 | 0.0000 | .9818 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0158 | .0080 |
| 2904 | 18.1587 | 0.0000 | .9741 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0222 | .0095 |
| 2905 | 20.1612 | 0.0000 | .9736 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0230 | .0099 |
| 2906 | 21.6214 | 0.0000 | .9721 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0100 |
| 2907 | .0386 | 0.0000 | .9870 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0118 | .0078 |

TEST 995 RUN 172

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2892 | .0130 | .3905 | .0605 | -.1119 | .3905 | .0383 | -.1119 | .3905 | .0524 | -.1119 | 1.0000 |
| 2893 | -1.8472 | .2646 | .0541 | -.1452 | .2646 | .0307 | -.1452 | .2646 | .0458 | -.1452 | 1.0000 |
| 2894 | .0479 | .3919 | .0599 | -.1112 | .3919 | .0376 | -.1112 | .3919 | .0517 | -.1112 | 1.0000 |
| 2895 | 1.9574 | .5216 | .0706 | -.0768 | .5216 | .0484 | -.0768 | .5216 | .0624 | -.0768 | 1.0000 |
| 2896 | 3.9077 | .6461 | .0863 | -.0400 | .6461 | .0646 | -.0400 | .6461 | .0782 | -.0400 | 1.0000 |
| 2897 | 5.9111 | .7788 | .1088 | -.0005 | .7788 | .0874 | -.0005 | .7788 | .1008 | -.0005 | 1.0000 |
| 2898 | 7.9346 | .8895 | .1418 | .0411 | .8895 | .1206 | .0411 | .8895 | .1340 | .0411 | 1.0000 |
| 2899 | 9.9893 | .9889 | .1857 | .0898 | .9889 | .1643 | .0898 | .9889 | .1776 | .0898 | 1.0000 |
| 2900 | 12.0874 | 1.0765 | .2399 | .1362 | 1.0765 | .2175 | .1362 | 1.0765 | .2316 | .1362 | 1.0000 |
| 2901 | 14.1529 | 1.1733 | .3076 | .1851 | 1.1733 | .2841 | .1851 | 1.1733 | .2992 | .1851 | 1.0000 |
| 2903 | 16.1722 | 1.2548 | .3689 | .2322 | 1.2548 | .3451 | .2322 | 1.2548 | .3609 | .2322 | 1.0000 |
| 2904 | 18.1587 | 1.3444 | .4739 | .2274 | 1.3444 | .4422 | .2274 | 1.3444 | .4645 | .2274 | 1.0000 |
| 2905 | 20.1612 | 1.4810 | .5727 | .2675 | 1.4810 | .5398 | .2675 | 1.4810 | .5628 | .2675 | 1.0000 |
| 2906 | 21.6214 | 1.5622 | .6438 | .3005 | 1.5622 | .6100 | .3005 | 1.5622 | .6338 | .3005 | 1.0000 |
| 2907 | .0386 | .3946 | .0563 | -.1130 | .3946 | .0366 | -.1130 | .3946 | .0484 | -.1130 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 173

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2908 | .165 | 1919 | .04 | .00 | 100372 | .3949 | .0549 | -.1133 | -.0010 | -.0006 | -.0095 |
| 2909 | .166 | 1929 | .02 | .00 | 100375 | .3953 | .0537 | -.1108 | -.0011 | -.0004 | -.0082 |
| 2910 | .166 | 1939 | .04 | .00 | 100325 | .7636 | -.9259 | -.3231 | -.0019 | .0029 | -.0202 |
| 2911 | .166 | 1942 | -1.84 | .00 | 100321 | .6217 | -.9232 | -.3532 | -.0024 | .0030 | -.0217 |
| 2912 | .167 | 1949 | .07 | .00 | 100322 | .7601 | -.9256 | -.3208 | -.0012 | .0029 | -.0192 |
| 2913 | .166 | 1945 | 1.97 | .00 | 100318 | .8991 | -.9347 | -.2921 | -.0028 | .0031 | -.0168 |
| 2914 | .166 | 1939 | 3.92 | .00 | 100328 | 1.0416 | -.9519 | -.2604 | -.0025 | .0028 | -.0187 |
| 2915 | .165 | 1912 | 5.94 | .00 | 100358 | 1.1944 | -.9811 | -.2279 | -.0008 | .0017 | -.0181 |
| 2916 | .165 | 1912 | 7.91 | .00 | 100358 | 1.3428 | -.9827 | -.1930 | -.0026 | .0027 | -.0184 |
| 2917 | .165 | 1912 | 10.02 | .00 | 100358 | 1.4586 | -.9816 | -.1557 | -.0028 | .0031 | -.0202 |
| 2918 | .166 | 1935 | 12.09 | .00 | 100335 | 1.5678 | -.9649 | -.1123 | -.0017 | .0038 | -.0209 |
| 2919 | .167 | 1955 | 14.16 | .00 | 100315 | 1.6815 | -.9563 | -.0641 | -.0045 | .0039 | -.0236 |
| 2920 | .167 | 1952 | 16.20 | .00 | 100328 | 1.8135 | -.9528 | -.0274 | -.0031 | .0041 | -.0240 |
| 2921 | .167 | 1962 | 18.20 | -.00 | 100312 | 2.0396 | -.9381 | -.0528 | -.0032 | .0048 | -.0140 |
| 2922 | .166 | 1929 | 20.21 | .00 | 100348 | 2.1939 | -.9616 | -.0148 | -.0017 | .0039 | -.0180 |
| 2923 | .165 | 1909 | 21.74 | -.00 | 100368 | 2.3206 | -.9768 | .0174 | -.0012 | .0044 | -.0137 |
| 2924 | .167 | 1955 | .07 | .00 | 100322 | .7571 | -.9170 | -.3227 | -.0030 | .0030 | -.0264 |

TEST 995 RUN 173

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2908 | .0386 | 0.0000 | .9869 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0120 | .0078 |
| 2909 | .0249 | 0.0000 | .9872 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0117 | .0077 |
| 2910 | .0375 | 19.9721 | 2.0397 | 17.2000 | 1.0252 | 1.0411 | 0.0000 | -.9414 | .0130 |
| 2911 | -1.8377 | 19.9767 | 2.0402 | 17.2000 | 1.0278 | 1.0438 | 0.0000 | -.9398 | .0130 |
| 2912 | .0677 | 19.9240 | 2.0377 | 17.2000 | 1.0239 | 1.0398 | 0.0000 | -.9349 | .0129 |
| 2913 | 1.9745 | 19.9346 | 2.0395 | 17.2000 | 1.0283 | 1.0443 | 0.0000 | -.9375 | .0128 |
| 2914 | 3.9217 | 19.9361 | 2.0431 | 17.2000 | 1.0323 | 1.0483 | 0.0000 | -.9423 | .0128 |
| 2915 | 5.9369 | 19.9341 | 2.0438 | 17.2000 | 1.0424 | 1.0585 | 0.0000 | -.9534 | .0130 |
| 2916 | 7.9081 | 19.9305 | 2.0426 | 17.2000 | 1.0391 | 1.0552 | 0.0000 | -.9484 | .0131 |
| 2917 | 10.0234 | 19.9356 | 2.0399 | 17.2000 | 1.0338 | 1.0498 | 0.0000 | -.9404 | .0137 |
| 2918 | 12.0885 | 19.9300 | 2.0392 | 17.2000 | 1.0218 | 1.0369 | 0.0000 | -.9218 | .0143 |
| 2919 | 14.1558 | 19.9649 | 2.0402 | 17.2000 | 1.0134 | 1.0291 | 0.0000 | -.9055 | .0148 |
| 2920 | 16.1981 | 19.9580 | 2.0399 | 17.2000 | 1.0157 | 1.0314 | 0.0000 | -.8982 | .0163 |
| 2921 | 18.1971 | 19.9735 | 2.0398 | 17.2000 | 1.0124 | 1.0282 | 0.0000 | -.8838 | .0165 |
| 2922 | 20.2087 | 19.9983 | 2.0407 | 17.2000 | 1.0317 | 1.0477 | 0.0000 | -.8691 | .0174 |
| 2923 | 21.7387 | 19.9764 | 2.0365 | 17.2000 | 1.0409 | 1.0570 | 0.0000 | -.8857 | .0182 |
| 2924 | .0652 | 19.9926 | 2.0396 | 17.2000 | 1.0175 | 1.0333 | 0.0000 | -.9334 | .0131 |

TEST 995 RUN 173

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2908 | .0386 | .3948 | .0552 | -.1133 | .3948 | .0354 | -.1133 | .3948 | .0474 | -.1133 | 1.0000 |
| 2909 | .0249 | .3953 | .0539 | -.1108 | .3953 | .0345 | -.1108 | .3953 | .0462 | -.1108 | 1.0000 |
| 2910 | .0375 | .7642 | -.9254 | -.3231 | .7635 | .0867 | -.2074 | .7643 | -1.0949 | -.3407 | 1.2000 |
| 2911 | -1.8377 | .5918 | -.9427 | -.3532 | .6248 | .0716 | -.2373 | .5869 | -1.1095 | -.3706 | 1.2000 |
| 2912 | .0677 | .7612 | -.9247 | -.3208 | .7608 | .0863 | -.2053 | .7614 | -1.0954 | -.3386 | 1.2000 |
| 2913 | 1.9745 | .9308 | -.9031 | -.2921 | .8953 | .1117 | -.1760 | .9360 | -1.0692 | -.3094 | 1.2000 |
| 2914 | 3.9217 | 1.1042 | -.8784 | -.2604 | 1.0336 | .1387 | -.1439 | 1.1144 | -1.0402 | -.2773 | 1.2000 |
| 2915 | 5.9369 | 1.2895 | -.8523 | -.2279 | 1.1817 | .1715 | -.1103 | 1.3039 | -1.0038 | -.2436 | 1.2000 |
| 2916 | 7.9081 | 1.4653 | -.7886 | -.1930 | 1.3223 | .2275 | -.0757 | 1.4849 | -.9429 | -.2090 | 1.2000 |
| 2917 | 10.0234 | 1.6072 | -.7128 | -.1557 | 1.4272 | .2915 | -.0390 | 1.6329 | -.8721 | -.1723 | 1.2000 |
| 2918 | 12.0885 | 1.7351 | -.6152 | -.1123 | 1.5212 | .3689 | .0029 | 1.7687 | -.7866 | -.1304 | 1.2000 |
| 2919 | 14.1558 | 1.8643 | -.5160 | -.0641 | 1.6165 | .4518 | .0502 | 1.9055 | -.6940 | -.0831 | 1.2000 |
| 2920 | 16.1981 | 2.0073 | -.4091 | -.0274 | 1.7240 | .5580 | .0872 | 2.0536 | -.5848 | -.0461 | 1.2000 |
| 2921 | 18.1971 | 2.2305 | -.2542 | -.0528 | 1.9143 | .6911 | .0614 | 2.2834 | -.4315 | -.0719 | 1.2000 |
| 2922 | 20.2087 | 2.3910 | -.1445 | -.0148 | 2.0346 | .8062 | .1016 | 2.4428 | -.3026 | -.0317 | 1.2000 |
| 2923 | 21.7387 | 2.5174 | -.0478 | .0174 | 2.1318 | .9008 | .1349 | 2.5695 | -.1968 | .0016 | 1.2000 |
| 2924 | .0652 | .7581 | -.9162 | -.3227 | .7569 | .0883 | -.2079 | .7583 | -1.0934 | -.3412 | 1.2000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 174

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2925 | .166 | 1935 | .05 | .00 | 100335 | .8733 | -1.4007 | -.4080 | -.0046 | .0038 | -.0191 |
| 2926 | .166 | 1925 | -1.82 | .00 | 100345 | .7351 | -1.4019 | -.4411 | -.0043 | .0042 | -.0256 |
| 2927 | .167 | 1952 | .08 | .00 | 100332 | .8671 | -1.3833 | -.4036 | -.0045 | .0042 | -.0223 |
| 2928 | .166 | 1932 | 1.99 | .00 | 100331 | 1.0125 | -1.4080 | -.3769 | -.0046 | .0039 | -.0208 |
| 2929 | .166 | 1939 | 3.94 | .00 | 100321 | 1.1501 | -1.4166 | -.3431 | -.0046 | .0040 | -.0189 |
| 2930 | .166 | 1925 | 5.93 | .00 | 100331 | 1.2974 | -1.4415 | -.3106 | -.0040 | .0032 | -.0234 |
| 2931 | .166 | 1929 | 7.96 | .00 | 100328 | 1.4448 | -1.4473 | -.2749 | -.0050 | .0037 | -.0219 |
| 2932 | .165 | 1922 | 10.02 | -.00 | 100331 | 1.5630 | -1.4510 | -.2361 | -.0049 | .0039 | -.0180 |
| 2933 | .165 | 1922 | 12.11 | .00 | 100328 | 1.6751 | -1.4517 | -.1947 | -.0038 | .0045 | -.0236 |
| 2934 | .165 | 1922 | 14.20 | .00 | 100325 | 1.7968 | -1.4534 | -.1516 | -.0049 | .0051 | -.0248 |
| 2935 | .166 | 1945 | 16.21 | -.00 | 100298 | 1.9111 | -1.4351 | -.1052 | -.0052 | .0053 | -.0228 |
| 2936 | .166 | 1939 | 18.23 | .00 | 100304 | 2.1218 | -1.4298 | -.1355 | -.0058 | .0045 | -.0225 |
| 2937 | .166 | 1929 | 20.18 | -.00 | 100308 | 2.2779 | -1.4436 | -.0933 | -.0051 | .0048 | -.0176 |
| 2938 | .166 | 1932 | 21.67 | -.00 | 100304 | 2.3899 | -1.4473 | -.0622 | -.0047 | .0049 | -.0178 |
| 2939 | .166 | 1935 | .08 | .00 | 100288 | .8686 | -1.4069 | -.4089 | -.0043 | .0039 | -.0214 |

TEST 995 RUN 174

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2925 | .0455 | 25.4518 | 2.5932 | 17.2000 | 1.4940 | 1.5171 | 0.0000 | -1.4453 | .0151 |
| 2926 | -1.8198 | 25.4198 | 2.5860 | 17.2000 | 1.4975 | 1.5207 | 0.0000 | -1.4455 | .0153 |
| 2927 | .0827 | 25.4382 | 2.5825 | 17.2000 | 1.4778 | 1.5007 | 0.0000 | -1.4234 | .0150 |
| 2928 | 1.9932 | 25.4189 | 2.5904 | 17.2000 | 1.4936 | 1.5168 | 0.0000 | -1.4443 | .0149 |
| 2929 | 3.9397 | 25.4533 | 2.5897 | 17.2000 | 1.4908 | 1.5139 | 0.0000 | -1.4361 | .0148 |
| 2930 | 5.9311 | 25.4566 | 2.5902 | 17.2000 | 1.5016 | 1.5249 | 0.0000 | -1.4422 | .0148 |
| 2931 | 7.9616 | 25.4830 | 2.5891 | 17.2000 | 1.5002 | 1.5235 | 0.0000 | -1.4325 | .0150 |
| 2932 | 10.0242 | 25.5167 | 2.5942 | 17.2000 | 1.5081 | 1.5315 | 0.0000 | -1.4339 | .0157 |
| 2933 | 12.1101 | 25.4855 | 2.5902 | 17.2000 | 1.5057 | 1.5291 | 0.0000 | -1.4200 | .0167 |
| 2934 | 14.2048 | 25.4916 | 2.5891 | 17.2000 | 1.5065 | 1.5299 | 0.0000 | -1.4070 | .0181 |
| 2935 | 16.2099 | 25.5172 | 2.5949 | 17.2000 | 1.4910 | 1.5141 | 0.0000 | -1.3817 | .0196 |
| 2936 | 18.2269 | 25.5478 | 2.5949 | 17.2000 | 1.4988 | 1.5212 | 0.0000 | -1.3715 | .0203 |
| 2937 | 20.1849 | 25.5391 | 2.5948 | 17.2000 | 1.5054 | 1.5287 | 0.0000 | -1.3621 | .0221 |
| 2938 | 21.6661 | 25.5549 | 2.5983 | 17.2000 | 1.5043 | 1.5277 | 0.0000 | -1.3493 | .0230 |
| 2939 | .0753 | 25.5595 | 2.5980 | 17.2000 | 1.5022 | 1.5255 | 0.0000 | -1.4489 | .0153 |

TEST 995 RUN 174

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2925 | .0455 | .8744 | -1.4000 | -.4080 | .8732 | .0788 | -.2395 | .8744 | -1.3982 | -.4061 | 1.5000 |
| 2926 | -1.8198 | .6902 | -1.4245 | -.4411 | .7378 | .0569 | -.2721 | .6989 | -1.4194 | -.4388 | 1.5000 |
| 2927 | .0827 | .8691 | -1.3820 | -.4036 | .8669 | .0808 | -.2369 | .8691 | -1.3963 | -.4035 | 1.5000 |
| 2928 | 1.9932 | 1.0609 | -1.3719 | -.3769 | 1.0090 | .1059 | -.2084 | 1.0603 | -1.3703 | -.3750 | 1.5000 |
| 2929 | 3.9397 | 1.2447 | -1.3343 | -.3431 | 1.1423 | .1382 | -.1749 | 1.2437 | -1.3354 | -.3416 | 1.5000 |
| 2930 | 5.9311 | 1.4394 | -1.2997 | -.3106 | 1.2843 | .1791 | -.1412 | 1.4369 | -1.2901 | -.3078 | 1.5000 |
| 2931 | 7.9616 | 1.6313 | -1.2333 | -.2749 | 1.4235 | .2374 | -.1057 | 1.6281 | -1.2254 | -.2723 | 1.5000 |
| 2932 | 10.0242 | 1.7917 | -1.1568 | -.2361 | 1.5292 | .3126 | -.0660 | 1.7863 | -1.1419 | -.2326 | 1.5000 |
| 2933 | 12.1101 | 1.9424 | -1.0680 | -.1947 | 1.6265 | .3875 | -.0248 | 1.9364 | -1.0567 | -.1914 | 1.5000 |
| 2934 | 14.2048 | 2.0985 | -.9680 | -.1516 | 1.7288 | .4744 | .0184 | 2.0913 | -.9575 | -.1483 | 1.5000 |
| 2935 | 16.2099 | 2.2358 | -.8445 | -.1052 | 1.8195 | .5676 | .0630 | 2.2319 | -.8508 | -.1037 | 1.5000 |
| 2936 | 18.2269 | 2.4626 | -.6944 | -.1355 | 1.9940 | .7082 | .0335 | 2.4560 | -.6948 | -.1332 | 1.5000 |
| 2937 | 20.1849 | 2.6361 | -.5689 | -.0933 | 2.1167 | .8219 | .0766 | 2.6264 | -.5645 | -.0901 | 1.5000 |
| 2938 | 21.6661 | 2.7554 | -.4627 | -.0622 | 2.2000 | .9124 | .1076 | 2.7453 | -.4604 | -.0591 | 1.5000 |
| 2939 | .0753 | .8705 | -1.4057 | -.4089 | .8685 | .0812 | -.2394 | .8704 | -1.3959 | -.4060 | 1.5000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 175

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2940 | .166 | 1945 | .05 | .00 | 100264 | .9770 | -1.6156 | -.4856 | -.0011 | .0042 | -.0228 |
| 2941 | .166 | 1942 | -1.82 | .00 | 100267 | .8419 | -1.6229 | -.5193 | -.0012 | .0042 | -.0223 |
| 2942 | .166 | 1942 | .08 | .00 | 100267 | .9858 | -1.6319 | -.4901 | -.0012 | .0038 | -.0206 |
| 2943 | .166 | 1932 | 1.99 | .00 | 100277 | 1.1276 | -1.6443 | -.4598 | -.0014 | .0041 | -.0233 |
| 2944 | .166 | 1935 | 3.95 | .00 | 100281 | 1.2529 | -1.6344 | -.4185 | -.0017 | .0037 | -.0204 |
| 2945 | .166 | 1945 | 5.95 | .00 | 100271 | 1.3952 | -1.6382 | -.3815 | .0003 | .0027 | -.0208 |
| 2946 | .167 | 1952 | 7.97 | .00 | 100271 | 1.5444 | -1.6351 | -.3443 | -.0011 | .0032 | -.0224 |
| 2947 | .165 | 1916 | 9.99 | .00 | 100308 | 1.6694 | -1.6628 | -.3117 | -.0016 | .0038 | -.0244 |
| 2948 | .167 | 1958 | 12.13 | .00 | 100267 | 1.7702 | -1.6297 | -.2653 | -.0008 | .0049 | -.0336 |
| 2949 | .167 | 1955 | 14.20 | .00 | 100267 | 1.8953 | -1.6375 | -.2254 | -.0006 | .0046 | -.0276 |
| 2950 | .167 | 1962 | 16.17 | .00 | 100267 | 2.0142 | -1.6329 | -.1845 | -.0025 | .0049 | -.0242 |
| 2951 | .166 | 1942 | 18.22 | .00 | 100288 | 2.2408 | -1.6417 | -.2159 | -.0033 | .0048 | -.0225 |
| 2952 | .166 | 1929 | 20.21 | -.00 | 100301 | 2.3986 | -1.6634 | -.1738 | -.0014 | .0050 | -.0192 |
| 2953 | .166 | 1939 | 21.71 | .00 | 100291 | 2.5136 | -1.6642 | -.1408 | -.0019 | .0048 | -.0225 |
| 2954 | .165 | 1912 | .07 | .08 | 100321 | .9927 | -1.6622 | -.4983 | -.0013 | .0034 | -.0268 |
| 2956 | .166 | 1935 | .03 | .00 | 100301 | .3903 | .0309 | -.1136 | -.0012 | -.0003 | -.0126 |

TEST 995 RUN 175

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2940 | .0521 | 28.1501 | 2.8542 | 17.2000 | 1.7154 | 1.7420 | 0.0000 | -1.6723 | .0154 |
| 2941 | -1.8156 | 28.2819 | 2.8640 | 17.2000 | 1.7292 | 1.7561 | 0.0000 | -1.6832 | .0155 |
| 2942 | .0803 | 28.3487 | 2.8717 | 17.2000 | 1.7356 | 1.7626 | 0.0000 | -1.6910 | .0154 |
| 2943 | 1.9875 | 28.3068 | 2.8716 | 17.2000 | 1.7401 | 1.7671 | 0.0000 | -1.6987 | .0153 |
| 2944 | 3.9492 | 28.0658 | 2.8478 | 17.2000 | 1.7177 | 1.7443 | 0.0000 | -1.6707 | .0150 |
| 2945 | 5.9543 | 27.9794 | 2.8396 | 17.2000 | 1.7012 | 1.7276 | 0.0000 | -1.6503 | .0149 |
| 2946 | 7.9745 | 27.9881 | 2.8332 | 17.2000 | 1.6945 | 1.7208 | 0.0000 | -1.6320 | .0151 |
| 2947 | 9.9901 | 28.0442 | 2.8309 | 17.2000 | 1.7291 | 1.7559 | 0.0000 | -1.6522 | .0159 |
| 2948 | 12.1328 | 27.9717 | 2.8365 | 17.2000 | 1.6884 | 1.7145 | 0.0000 | -1.6085 | .0170 |
| 2949 | 14.2031 | 28.0595 | 2.8469 | 17.2000 | 1.6982 | 1.7245 | 0.0000 | -1.6067 | .0186 |
| 2950 | 16.1670 | 28.1003 | 2.8498 | 17.2000 | 1.6962 | 1.7225 | 0.0000 | -1.5889 | .0201 |
| 2951 | 18.2195 | 28.1358 | 2.8544 | 17.2000 | 1.7161 | 1.7427 | 0.0000 | -1.5917 | .0211 |
| 2952 | 20.2138 | 28.2594 | 2.8545 | 17.2000 | 1.7362 | 1.7631 | 0.0000 | -1.5836 | .0227 |
| 2953 | 21.7134 | 28.2253 | 2.8647 | 17.2000 | 1.7259 | 1.7527 | 0.0000 | -1.5682 | .0239 |
| 2954 | .0704 | 28.3580 | 2.8761 | 17.2000 | 1.7631 | 1.7905 | 0.0000 | -1.7222 | .0155 |
| 2956 | .0270 | .0694 | .9749 | 17.2000 | 0.0000 | 0.0000 | 0.0000 | .0228 | .0079 |

TEST 995 RUN 175

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2940 | .0521 | .9785 | -1.6147 | -.4856 | .9769 | .0853 | -.2921 | .9785 | -1.6872 | -.4920 | 1.8000 |
| 2941 | -1.8156 | .7900 | -1.6480 | -.5193 | .8448 | .0641 | -.3242 | .7887 | -1.7075 | -.5242 | 1.8000 |
| 2942 | .0803 | .9881 | -1.6305 | -.4901 | .9856 | .0897 | -.2943 | .9881 | -1.6828 | -.4943 | 1.8000 |
| 2943 | 1.9875 | 1.1840 | -1.6042 | -.4598 | 1.1236 | .1195 | -.2635 | 1.1851 | -1.6519 | -.4635 | 1.8000 |
| 2944 | 3.9492 | 1.3625 | -1.5443 | -.4185 | 1.2442 | .1543 | -.2247 | 1.3663 | -1.6139 | -.4247 | 1.8000 |
| 2945 | 5.9543 | 1.5576 | -1.4846 | -.3815 | 1.3811 | .1925 | -.1895 | 1.5650 | -1.5704 | -.3895 | 1.8000 |
| 2946 | 7.9745 | 1.7563 | -1.4050 | -.3443 | 1.5212 | .2579 | -.1531 | 1.7671 | -1.4974 | -.3531 | 1.8000 |
| 2947 | 9.9901 | 1.9326 | -1.3480 | -.3117 | 1.6326 | .3390 | -.1166 | 1.9401 | -1.4066 | -.3166 | 1.8000 |
| 2948 | 12.1328 | 2.0732 | -1.2212 | -.2653 | 1.7184 | .4125 | -.0748 | 2.0909 | -1.3204 | -.2748 | 1.8000 |
| 2949 | 14.2031 | 2.2391 | -1.1224 | -.2254 | 1.8225 | .5053 | -.0338 | 2.2574 | -1.2130 | -.2338 | 1.8000 |
| 2950 | 16.1670 | 2.3892 | -1.0075 | -.1845 | 1.9169 | .6015 | .0068 | 2.4104 | -1.1009 | -.1931 | 1.8000 |
| 2951 | 18.2195 | 2.6417 | -.8588 | -.2159 | 2.1852 | .7502 | -.0223 | 2.6594 | -.9335 | -.2223 | 1.8000 |
| 2952 | 20.2138 | 2.8256 | -.7321 | -.1738 | 2.2257 | .8744 | .0221 | 2.8382 | -.7890 | -.1779 | 1.8000 |
| 2953 | 21.7134 | 2.9509 | -.6162 | -.1408 | 2.3124 | .9633 | .0540 | 2.9682 | -.6834 | -.1460 | 1.8000 |
| 2954 | .0704 | .9947 | -1.6610 | -.4983 | .9926 | .0866 | -.2994 | .9947 | -1.6859 | -.4994 | 1.8000 |
| 2956 | .0270 | .3903 | .0311 | -.1136 | .3903 | .0004 | -.1136 | .3903 | .0232 | -.1136 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 176

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2959 | .166 | 1929 | .05 | .00 | 100447 | .7370 | .1254 | -.2209 | -.0001 | .0005 | -.0116 |
| 2960 | .165 | 1916 | -1.81 | -.00 | 100460 | .6152 | .1308 | -.2559 | .0005 | .0004 | -.0044 |
| 2961 | .166 | 1935 | .07 | .00 | 100437 | .7418 | .1267 | -.2191 | -.0001 | -.0006 | -.0165 |
| 2962 | .166 | 1932 | 1.99 | -.00 | 100440 | .8725 | .1190 | -.1855 | .0009 | .0003 | -.0033 |
| 2963 | .165 | 1916 | 3.93 | -.00 | 100453 | 1.0155 | .1073 | -.1534 | .0030 | -.0009 | -.0027 |
| 2964 | .164 | 1896 | 5.93 | -.00 | 100470 | 1.1690 | .1005 | -.1203 | .0005 | -.0002 | -.0021 |
| 2965 | .165 | 1912 | 7.96 | -.00 | 100450 | 1.2592 | .0979 | -.0779 | -.0014 | -.0004 | .0020 |
| 2966 | .164 | 1892 | 10.05 | -.00 | 100463 | 1.3647 | .0962 | -.0340 | .0001 | -.0000 | -.0015 |
| 2967 | .167 | 1952 | 12.15 | -.00 | 100396 | 1.4410 | .1008 | .0157 | -.0006 | .0003 | -.0041 |
| 2968 | .166 | 1932 | 14.23 | -.00 | 100413 | 1.5312 | .1012 | .0730 | -.0014 | .0007 | -.0053 |
| 2969 | .166 | 1942 | 16.22 | -.00 | 100396 | 1.6066 | .1211 | .0768 | -.0021 | -.0000 | -.0011 |
| 2970 | .165 | 1906 | 18.21 | -.00 | 100429 | 1.7700 | .1266 | .1111 | .0003 | .0002 | -.0017 |
| 2971 | .165 | 1922 | 20.22 | -.00 | 100406 | 1.8683 | .1217 | .1598 | .0009 | .0004 | -.0011 |
| 2972 | .165 | 1906 | 21.72 | -.00 | 100416 | 1.9581 | .1173 | .1993 | .0005 | .0007 | .0038 |
| 2973 | .166 | 1945 | .05 | -.00 | 100376 | .7449 | .1267 | -.2187 | .0003 | -.0003 | -.0027 |

TEST 995 RUN 176

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2959 | .0508 | 0.0000 | .9716 | 40.3853 | 0.0000 | 0.0000 | 0.0000 | .0259 | .0098 |
| 2960 | -1.8089 | 0.0000 | .9728 | 40.3815 | 0.0000 | 0.0000 | 0.0000 | .0249 | .0099 |
| 2961 | .0745 | 0.0000 | .9716 | 40.3853 | 0.0000 | 0.0000 | 0.0000 | .0258 | .0098 |
| 2962 | 1.9906 | 0.0000 | .9719 | 40.3843 | 0.0000 | 0.0000 | 0.0000 | .0256 | .0098 |
| 2963 | 3.9262 | 0.0000 | .9717 | 40.3850 | 0.0000 | 0.0000 | 0.0000 | .0259 | .0097 |
| 2964 | 5.9266 | 0.0000 | .9720 | 40.3839 | 0.0000 | 0.0000 | 0.0000 | .0258 | .0097 |
| 2965 | 7.9635 | 0.0000 | .9718 | 40.3847 | 0.0000 | 0.0000 | 0.0000 | .0257 | .0099 |
| 2966 | 10.0485 | 0.0000 | .9706 | 40.3882 | 0.0000 | 0.0000 | 0.0000 | .0269 | .0103 |
| 2967 | 12.1476 | 0.0000 | .9682 | 40.3955 | 0.0000 | 0.0000 | 0.0000 | .0280 | .0106 |
| 2968 | 14.2347 | 0.0000 | .9690 | 40.3930 | 0.0000 | 0.0000 | 0.0000 | .0273 | .0111 |
| 2969 | 16.2151 | 0.0000 | .9687 | 40.3938 | 0.0000 | 0.0000 | 0.0000 | .0272 | .0104 |
| 2970 | 18.2113 | 0.0000 | .9668 | 40.3996 | 0.0000 | 0.0000 | 0.0000 | .0291 | .0109 |
| 2971 | 20.2176 | 0.0000 | .9649 | 40.4052 | 0.0000 | 0.0000 | 0.0000 | .0301 | .0114 |
| 2972 | 21.7172 | 0.0000 | .9648 | 40.4055 | 0.0000 | 0.0000 | 0.0000 | .0301 | .0119 |
| 2973 | .0541 | 0.0000 | .9749 | 40.3754 | 0.0000 | 0.0000 | 0.0000 | .0227 | .0099 |

TEST 995 RUN 176

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2959 | .0508 | .7369 | .1261 | -.2209 | .7369 | .0983 | -.2289 | .7369 | .1162 | -.2209 | 1.0000 |
| 2960 | -1.8089 | .6190 | .1113 | -.2559 | .6190 | .0765 | -.2559 | .6190 | .1014 | -.2559 | 1.0000 |
| 2961 | .0745 | .7416 | .1277 | -.2191 | .7416 | .0920 | -.2191 | .7416 | .1178 | -.2191 | 1.0000 |
| 2962 | 1.9906 | .8679 | .1492 | -.1855 | .8679 | .1139 | -.1855 | .8679 | .1395 | -.1855 | 1.0000 |
| 2963 | 3.9262 | 1.0058 | .1765 | -.1534 | 1.0058 | .1409 | -.1534 | 1.0058 | .1668 | -.1534 | 1.0000 |
| 2964 | 5.9266 | 1.1524 | .2207 | -.1203 | 1.1524 | .1852 | -.1203 | 1.1524 | .2110 | -.1203 | 1.0000 |
| 2965 | 7.9635 | 1.2335 | .2714 | -.0779 | 1.2335 | .2358 | -.0779 | 1.2335 | .2615 | -.0779 | 1.0000 |
| 2966 | 10.0485 | 1.3270 | .3328 | -.0340 | 1.3270 | .2956 | -.0340 | 1.3270 | .3225 | -.0340 | 1.0000 |
| 2967 | 12.1476 | 1.3875 | .4017 | .0157 | 1.3875 | .3631 | .0157 | 1.3875 | .3911 | .0157 | 1.0000 |
| 2968 | 14.2347 | 1.4593 | .4746 | .0730 | 1.4593 | .4362 | .0730 | 1.4593 | .4636 | .0730 | 1.0000 |
| 2969 | 16.2151 | 1.5089 | .5649 | .0768 | 1.5089 | .5274 | .0768 | 1.5089 | .5545 | .0768 | 1.0000 |
| 2970 | 18.2113 | 1.6418 | .6734 | .1111 | 1.6418 | .6335 | .1111 | 1.6418 | .6625 | .1111 | 1.0000 |
| 2971 | 20.2176 | 1.7112 | .7598 | .1598 | 1.7112 | .7184 | .1598 | 1.7112 | .7485 | .1598 | 1.0000 |
| 2972 | 21.7172 | 1.7757 | .8336 | .1993 | 1.7757 | .7915 | .1993 | 1.7757 | .8217 | .1993 | 1.0000 |
| 2973 | .0541 | .7448 | .1274 | -.2187 | .7448 | .0949 | -.2187 | .7448 | .1176 | -.2187 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 177

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2974 | .166 | 1939 | .07 | -.00 | 100382 | .7485 | .1280 | -.2209 | .0003 | -.0001 | -.0050 |
| 2975 | .166 | 1942 | .06 | -.00 | 100393 | .7449 | .1237 | -.2198 | .0006 | -.0003 | .0006 |
| 2976 | .167 | 1965 | .10 | -.00 | 100386 | 1.7620 | -1.2897 | -.9344 | .0025 | .0021 | -.0087 |
| 2977 | .165 | 1912 | -1.78 | -.00 | 100423 | 1.6414 | -1.2868 | -.9748 | .0033 | .0024 | -.0098 |
| 2978 | .167 | 1949 | .13 | -.00 | 100386 | 1.7587 | -1.2688 | -.9269 | .0031 | .0022 | -.0056 |
| 2980 | .166 | 1942 | 2.02 | -.00 | 100393 | 1.9024 | -1.3053 | -.9072 | .0030 | .0020 | -.0084 |
| 2981 | .166 | 1945 | 4.01 | -.00 | 100389 | 2.0544 | -1.3196 | -.8784 | .0058 | .0015 | -.0102 |
| 2982 | .167 | 1958 | 6.01 | -.00 | 100376 | 2.2153 | -1.3290 | -.8383 | .0028 | .0017 | -.0093 |
| 2983 | .166 | 1945 | 8.00 | .00 | 100386 | 2.3269 | -1.3446 | -.7975 | .0015 | .0016 | -.0112 |
| 2984 | .166 | 1929 | 10.10 | -.00 | 100399 | 2.4453 | -1.3652 | -.7701 | .0030 | .0021 | -.0102 |
| 2985 | .166 | 1925 | 12.23 | -.00 | 100403 | 2.5453 | -1.3366 | -.7137 | .0024 | .0023 | -.0130 |
| 2986 | .166 | 1935 | 14.29 | -.00 | 100392 | 2.6501 | -1.3310 | -.6613 | .0015 | .0025 | -.0119 |
| 2987 | .166 | 1942 | 16.28 | -.00 | 100379 | 2.7715 | -1.3328 | -.6164 | .0000 | .0026 | -.0109 |
| 2988 | .165 | 1922 | 18.27 | -.00 | 100399 | 3.0212 | -1.3360 | -.6546 | .0001 | .0018 | -.0062 |
| 2989 | .166 | 1942 | 20.27 | -.00 | 100372 | 3.1406 | -1.3323 | -.5848 | .0012 | .0018 | -.0033 |
| 2990 | .166 | 1945 | 21.74 | -.00 | 100369 | 3.2422 | -1.3361 | -.5440 | .0016 | .0023 | -.0010 |
| 2991 | .166 | 1935 | .11 | -.00 | 100392 | 1.7816 | -1.3165 | -.9465 | .0038 | .0020 | -.0104 |
| 2992 | .165 | 1919 | .06 | -.00 | 100409 | .7371 | .0965 | -.2252 | .0018 | -.0001 | .0015 |

TEST 995 RUN 177

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 2974 | .0680 | 0.0000 | .9751 | 40.3747 | 0.0000 | 0.0000 | 0.0000 | .0226 | .0099 |
| 2975 | .0632 | 0.0000 | .9753 | 40.3740 | 0.0000 | 0.0000 | 0.0000 | .0223 | .0098 |
| 2976 | .0995 | 28.5573 | 2.8608 | 34.7177 | 1.7076 | 1.7341 | 0.0000 | -1.6633 | .0115 |
| 2977 | -1.7795 | 27.7629 | 2.8103 | 34.8692 | 1.6955 | 1.7218 | 0.0000 | -1.6627 | .0117 |
| 2978 | .1267 | 27.7648 | 2.8175 | 34.8474 | 1.6669 | 1.6927 | 0.0000 | -1.6384 | .0114 |
| 2980 | 2.0151 | 28.4751 | 2.8393 | 34.7820 | 1.7244 | 1.7511 | 0.0000 | -1.6628 | .0112 |
| 2981 | 4.0092 | 28.2245 | 2.8408 | 34.7776 | 1.7086 | 1.7351 | 0.0000 | -1.6582 | .0111 |
| 2982 | 6.0086 | 28.1597 | 2.8469 | 34.7594 | 1.6958 | 1.7221 | 0.0000 | -1.6472 | .0116 |
| 2983 | 8.0000 | 28.1842 | 2.8501 | 34.7497 | 1.7104 | 1.7370 | 0.0000 | -1.6543 | .0127 |
| 2984 | 10.0984 | 28.3054 | 2.8703 | 34.6892 | 1.7395 | 1.7665 | 0.0000 | -1.6771 | .0139 |
| 2985 | 12.2289 | 27.9624 | 2.8351 | 34.7946 | 1.7131 | 1.7397 | 0.0000 | -1.6364 | .0152 |
| 2986 | 14.2868 | 28.6042 | 2.8334 | 34.7998 | 1.7437 | 1.7707 | 0.0000 | -1.6127 | .0170 |
| 2987 | 16.2762 | 28.0634 | 2.8433 | 34.7702 | 1.7082 | 1.7347 | 0.0000 | -1.6003 | .0190 |
| 2988 | 18.2741 | 28.0508 | 2.8427 | 34.7718 | 1.7247 | 1.7514 | 0.0000 | -1.5993 | .0197 |
| 2989 | 20.2733 | 28.1819 | 2.8519 | 34.7444 | 1.7175 | 1.7442 | 0.0000 | -1.5711 | .0218 |
| 2990 | 21.7363 | 28.1545 | 2.8541 | 34.7378 | 1.7153 | 1.7419 | 0.0000 | -1.5549 | .0230 |
| 2991 | .1061 | 28.1789 | 2.8583 | 34.7252 | 1.7268 | 1.7528 | 0.0000 | -1.6867 | .0111 |
| 2992 | .0598 | 0.0000 | .9694 | 40.3917 | 0.0000 | 0.0000 | 0.0000 | .0280 | .0094 |

TEST 995 RUN 177

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2974 | .0680 | .7483 | .1289 | -.2209 | .7483 | .0964 | -.2209 | .7483 | .1190 | -.2209 | 1.0000 |
| 2975 | .0632 | .7447 | .1245 | -.2198 | .7447 | .0924 | -.2198 | .7447 | .1147 | -.2198 | 1.0000 |
| 2976 | .0995 | 1.7642 | -1.2866 | -.9344 | 1.7613 | .4095 | -.7418 | 1.7644 | -1.3630 | -.9418 | 1.8000 |
| 2977 | -1.7795 | 1.6007 | -1.3372 | -.9748 | 1.6533 | .3458 | -.7835 | 1.5983 | -1.4258 | -.9834 | 1.8000 |
| 2978 | .1267 | 1.7615 | -1.2649 | -.9269 | 1.7578 | .3905 | -.7389 | 1.7617 | -1.3820 | -.9389 | 1.8000 |
| 2980 | 2.0151 | 1.9472 | -1.2375 | -.9072 | 1.8865 | .4745 | -.7127 | 1.9489 | -1.2969 | -.9127 | 1.8000 |
| 2981 | 4.0092 | 2.1416 | -1.1727 | -.8784 | 2.0221 | .5206 | -.6856 | 2.1461 | -1.2476 | -.8856 | 1.8000 |
| 2982 | 6.0086 | 2.3423 | -1.0898 | -.8383 | 2.1647 | .5851 | -.6469 | 2.3503 | -1.1777 | -.8469 | 1.8000 |
| 2983 | 8.0000 | 2.4914 | -1.0077 | -.7975 | 2.2534 | .6735 | -.6045 | 2.5001 | -1.0818 | -.8045 | 1.8000 |
| 2984 | 10.0984 | 2.6468 | -.9153 | -.7701 | 2.3418 | .7833 | -.5739 | 2.6526 | -.9618 | -.7739 | 1.8000 |
| 2985 | 12.2289 | 2.7707 | -.7671 | -.7137 | 2.4078 | .8919 | -.5205 | 2.7833 | -.8404 | -.7204 | 1.8000 |
| 2986 | 14.2868 | 2.8966 | -.6359 | -.6613 | 2.4663 | 1.0369 | -.4646 | 2.9037 | -.6808 | -.6646 | 1.8000 |
| 2987 | 16.2762 | 3.0340 | -.5026 | -.6164 | 2.5552 | 1.1181 | -.4237 | 3.0520 | -.5833 | -.6237 | 1.8000 |
| 2988 | 18.2741 | 3.2884 | -.3232 | -.6546 | 2.7476 | 1.2948 | -.4601 | 3.3034 | -.3883 | -.6600 | 1.8000 |
| 2989 | 20.2733 | 3.4076 | -.1615 | -.5848 | 2.8125 | 1.4278 | -.3910 | 3.4267 | -.2349 | -.5910 | 1.8000 |
| 2990 | 21.7363 | 3.5065 | -.0404 | -.5440 | 2.8713 | 1.5299 | -.3505 | 3.5277 | -.1166 | -.5505 | 1.8000 |
| 2991 | .1061 | 1.7840 | -1.3132 | -.9465 | 1.7808 | .4017 | -.7518 | 1.7841 | -1.3708 | -.9518 | 1.8000 |
| 2992 | .0598 | .7370 | .0973 | -.2252 | .7370 | .0599 | -.2252 | .7370 | .0878 | -.2252 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 180

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3006 | .166 | 1932 | .03 | -.00 | 100413 | .3671 | -1.6308 | -.1999 | -.0038 | .0031 | -.0152 |
| 3007 | .167 | 1949 | -1.81 | -.00 | 100396 | .2231 | -1.6206 | -.2279 | -.0034 | .0039 | -.0132 |
| 3008 | .165 | 1919 | .06 | -.00 | 100430 | .3733 | -1.6466 | -.1994 | -.0045 | .0038 | -.0136 |
| 3009 | .167 | 1955 | 1.96 | -.00 | 100389 | .5139 | -1.6241 | -.1673 | -.0035 | .0039 | -.0130 |
| 3010 | .166 | 1925 | 3.87 | -.00 | 100416 | .6575 | -1.6579 | -.1390 | -.0033 | .0039 | -.0103 |
| 3011 | .165 | 1909 | 5.92 | -.00 | 100433 | .8132 | -1.6953 | -.1093 | -.0037 | .0037 | -.0109 |
| 3012 | .165 | 1912 | 7.92 | -.00 | 100429 | .9493 | -1.7041 | -.0787 | -.0027 | .0036 | -.0161 |
| 3013 | .166 | 1932 | 10.02 | -.00 | 100409 | 1.1176 | -1.6933 | -.0443 | -.0034 | .0039 | -.0140 |
| 3014 | .165 | 1922 | 12.10 | -.00 | 100416 | 1.2535 | -1.7048 | -.0119 | -.0031 | .0042 | -.0161 |
| 3015 | .166 | 1925 | 14.18 | -.00 | 100413 | 1.3962 | -1.7008 | .0260 | -.0027 | .0047 | -.0168 |
| 3016 | .166 | 1935 | 16.21 | -.00 | 100403 | 1.5341 | -1.6897 | .0588 | -.0035 | .0047 | -.0175 |
| 3017 | .166 | 1945 | 18.21 | -.00 | 100389 | 1.7464 | -1.6712 | .0321 | -.0050 | .0043 | -.0153 |
| 3018 | .167 | 1962 | 20.22 | -.00 | 100372 | 1.9091 | -1.6589 | .0602 | -.0036 | .0043 | -.0119 |
| 3019 | .167 | 1952 | 21.72 | -.00 | 100379 | 2.0538 | -1.6737 | .0875 | -.0034 | .0041 | -.0089 |
| 3020 | .168 | 1985 | .05 | -.00 | 100335 | .3629 | -1.5894 | -.1961 | -.0033 | .0039 | -.0135 |

TEST 995 RUN 180

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3006 | .0290 | 27.6643 | 2.8214 | 6.4501 | 1.6798 | 1.7059 | 0.0000 | -1.6564 | .0236 |
| 3007 | -1.8072 | 27.7091 | 2.8273 | 6.4418 | 1.6703 | 1.6962 | 0.0000 | -1.6466 | .0234 |
| 3008 | .0618 | 27.7416 | 2.8285 | 6.4401 | 1.6989 | 1.7252 | 0.0000 | -1.6746 | .0238 |
| 3009 | 1.9580 | 27.7754 | 2.8325 | 6.4346 | 1.6704 | 1.6963 | 0.0000 | -1.6454 | .0235 |
| 3010 | 3.8687 | 27.8159 | 2.8363 | 6.4291 | 1.7007 | 1.7271 | 0.0000 | -1.6719 | .0237 |
| 3011 | 5.9179 | 27.8607 | 2.8413 | 6.4222 | 1.7196 | 1.7462 | 0.0000 | -1.6860 | .0239 |
| 3012 | 7.9191 | 27.8780 | 2.8427 | 6.4202 | 1.7165 | 1.7452 | 0.0000 | -1.6773 | .0238 |
| 3013 | 10.0179 | 27.9354 | 2.8518 | 6.4086 | 1.7077 | 1.7342 | 0.0000 | -1.6576 | .0235 |
| 3014 | 12.0966 | 27.9281 | 2.8484 | 6.4123 | 1.7158 | 1.7424 | 0.0000 | -1.6521 | .0236 |
| 3015 | 14.1844 | 27.8791 | 2.8416 | 6.4217 | 1.7075 | 1.7340 | 0.0000 | -1.6293 | .0234 |
| 3016 | 16.2088 | 27.8613 | 2.8373 | 6.4278 | 1.6988 | 1.7252 | 0.0000 | -1.6015 | .0233 |
| 3017 | 18.2120 | 27.8265 | 2.8367 | 6.4286 | 1.6874 | 1.7136 | 0.0000 | -1.5755 | .0240 |
| 3018 | 20.2280 | 27.7976 | 2.8345 | 6.4317 | 1.6716 | 1.6976 | 0.0000 | -1.5412 | .0251 |
| 3019 | 21.7228 | 27.8332 | 2.8332 | 6.4336 | 1.6822 | 1.7083 | 0.0000 | -1.5325 | .0264 |
| 3020 | .0478 | 27.7403 | 2.8317 | 6.4356 | 1.6491 | 1.6747 | 0.0000 | -1.6202 | .0233 |

TEST 995 RUN 180

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3006 | .0290 | .3688 | -1.6306 | -.1999 | .3671 | .0256 | -.0184 | .3688 | -1.7469 | -.2184 | 1.8000 |
| 3007 | -1.8072 | .1719 | -1.6268 | -.2279 | .2246 | .0192 | -.0395 | .1687 | -1.7524 | -.2395 | 1.8000 |
| 3008 | .0618 | .3751 | -1.6462 | -.1994 | .3733 | .0289 | -.0078 | .3752 | -1.7436 | -.2077 | 1.8000 |
| 3009 | 1.9580 | .5691 | -1.6056 | -.1673 | .5128 | .9483 | .8212 | .5726 | -1.7311 | -.1788 | 1.8000 |
| 3010 | 3.8687 | .7679 | -1.6097 | -.1390 | .6531 | .0634 | .0529 | .7727 | -1.7051 | -.1471 | 1.8000 |
| 3011 | 5.9179 | .9837 | -1.6024 | -.1093 | .8064 | .0841 | .0847 | .9891 | -1.6790 | -.1153 | 1.8000 |
| 3012 | 7.9191 | 1.1751 | -1.5571 | -.0787 | .9383 | .1213 | .1152 | 1.1825 | -1.6343 | -.0848 | 1.8000 |
| 3013 | 10.0179 | 1.3951 | -1.4731 | -.0443 | 1.0980 | .1858 | .1484 | 1.4064 | -1.5604 | -.0516 | 1.8000 |
| 3014 | 12.0966 | 1.5829 | -1.4043 | -.0119 | 1.2234 | .2498 | .1816 | 1.5948 | -1.4833 | -.0183 | 1.8000 |
| 3015 | 14.1844 | 1.7704 | -1.3068 | .0260 | 1.3520 | .3253 | .2186 | 1.7864 | -1.3932 | .0186 | 1.8000 |
| 3016 | 16.2088 | 1.9448 | -1.1944 | .0588 | 1.4706 | .4136 | .2505 | 1.9653 | -1.2884 | .0505 | 1.8000 |
| 3017 | 18.2120 | 2.1812 | -1.0416 | .0321 | 1.6539 | .5373 | .2225 | 2.2078 | -1.1464 | .0225 | 1.8000 |
| 3018 | 20.2280 | 2.3648 | -.8969 | .0602 | 1.7870 | .6467 | .2488 | 2.3997 | -1.0166 | .0488 | 1.8000 |
| 3019 | 21.7228 | 2.5274 | -.7947 | .0875 | 1.9048 | .7416 | .2773 | 2.5608 | -.9050 | .0773 | 1.8000 |
| 3020 | .0478 | .3642 | -1.5890 | -.1961 | .3628 | .0368 | -.0181 | .3643 | -1.7357 | -.2100 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 161

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3022 | .166 | 1932 | .06 | -.00 | 100392 | .3166 | -1.4381 | -.1547 | -.0033 | .0035 | -.0106 |
| 3023 | .166 | 1939 | -1.87 | .00 | 100389 | .1717 | -1.4289 | -.1847 | -.0040 | .0020 | -.0275 |
| 3024 | .166 | 1945 | .04 | -.00 | 100382 | .3167 | -1.4198 | -.1544 | -.0033 | .0034 | -.0095 |
| 3025 | .166 | 1932 | 1.95 | -.00 | 100389 | .4566 | -1.4312 | -.1239 | -.0036 | .0034 | -.0100 |
| 3026 | .167 | 1949 | 3.91 | -.00 | 100372 | .6020 | -1.4273 | -.0916 | -.0033 | .0034 | -.0093 |
| 3027 | .165 | 1922 | 5.92 | -.00 | 100406 | .7536 | -1.4601 | -.0616 | -.0037 | .0032 | -.0111 |
| 3028 | .166 | 1925 | 7.93 | -.00 | 100403 | .9022 | -1.4665 | -.0239 | -.0034 | .0026 | -.0102 |
| 3029 | .165 | 1916 | 10.01 | -.00 | 100419 | 1.0553 | -1.4770 | .0071 | -.0037 | .0034 | -.0155 |
| 3030 | .167 | 1955 | 12.13 | -.00 | 100383 | 1.1889 | -1.4494 | .0435 | -.0037 | .0038 | -.0113 |
| 3031 | .165 | 1919 | 14.18 | -.00 | 100423 | 1.3325 | -1.4774 | .0781 | -.0024 | .0044 | -.0045 |
| 3032 | .166 | 1945 | 16.19 | -.00 | 100396 | 1.4660 | -1.4575 | .1176 | -.0041 | .0041 | -.0129 |
| 3033 | .166 | 1929 | 18.19 | -.00 | 100420 | 1.6714 | -1.4606 | .0877 | -.0042 | .0039 | -.0102 |
| 3034 | .165 | 1919 | 20.19 | -.00 | 100436 | 1.8438 | -1.4729 | .1184 | -.0042 | .0039 | -.0087 |
| 3035 | .166 | 1932 | 21.63 | -.00 | 100433 | 1.9576 | -1.4713 | .1434 | -.0039 | .0040 | -.0066 |
| 3036 | .169 | 2005 | .04 | -.00 | 100356 | .3060 | -1.3622 | -.1515 | -.0033 | .0030 | -.0083 |
| 3037 | .166 | 1932 | .02 | -.00 | 100443 | .1934 | .0377 | -.0447 | -.0007 | -.0003 | -.0013 |

TEST 995 RUN 161

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3022 | .0616 | 25.4921 | 2.6014 | 6.7580 | 1.5016 | 1.5249 | 0.0000 | -1.4561 | .0219 |
| 3023 | -1.8702 | 25.4336 | 2.5981 | 6.7626 | 1.4907 | 1.5139 | 0.0000 | -1.4473 | .0218 |
| 3024 | .0408 | 25.4138 | 2.5925 | 6.7704 | 1.4844 | 1.5074 | 0.0000 | -1.4380 | .0217 |
| 3025 | 1.9480 | 25.3716 | 2.5920 | 6.7713 | 1.4918 | 1.5149 | 0.0000 | -1.4466 | .0217 |
| 3026 | 3.9078 | 25.3647 | 2.5896 | 6.7746 | 1.4776 | 1.5006 | 0.0000 | -1.4294 | .0215 |
| 3027 | 5.9246 | 25.3623 | 2.5860 | 6.7796 | 1.4973 | 1.5205 | 0.0000 | -1.4419 | .0217 |
| 3028 | 7.9334 | 25.3286 | 2.5852 | 6.7807 | 1.4922 | 1.5154 | 0.0000 | -1.4325 | .0215 |
| 3029 | 10.0091 | 25.3198 | 2.5835 | 6.7831 | 1.4995 | 1.5227 | 0.0000 | -1.4305 | .0214 |
| 3030 | 12.1286 | 25.3003 | 2.5832 | 6.7835 | 1.4676 | 1.4903 | 0.0000 | -1.3906 | .0214 |
| 3031 | 14.1766 | 25.3120 | 2.5828 | 6.7841 | 1.4959 | 1.5191 | 0.0000 | -1.4053 | .0217 |
| 3032 | 16.1914 | 25.3351 | 2.5827 | 6.7842 | 1.4776 | 1.5005 | 0.0000 | -1.3726 | .0218 |
| 3033 | 18.1873 | 25.3067 | 2.5808 | 6.7869 | 1.4678 | 1.5101 | 0.0000 | -1.3682 | .0226 |
| 3034 | 20.1860 | 25.2894 | 2.5758 | 6.7939 | 1.4920 | 1.5152 | 0.0000 | -1.3546 | .0239 |
| 3035 | 21.6309 | 25.3017 | 2.5759 | 6.7938 | 1.4832 | 1.5062 | 0.0000 | -1.3324 | .0248 |
| 3036 | .0382 | 25.2525 | 2.5737 | 6.7969 | 1.4261 | 1.4482 | 0.0000 | -1.3785 | .0214 |
| 3037 | .0220 | 0.0000 | .9849 | 9.0212 | 0.0000 | 0.0000 | 0.0000 | .0138 | .0075 |

TEST 995 RUN 161

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3022 | .0616 | .3182 | -1.4378 | -.1547 | .3166 | .0420 | .0147 | .3181 | -1.4351 | -.1519 | 1.5000 |
| 3023 | -1.8702 | .1250 | -1.4338 | -.1847 | .1736 | .0344 | -.0165 | .1254 | -1.4419 | -.1831 | 1.5000 |
| 3024 | .0408 | .3177 | -1.4196 | -.1544 | .3167 | .0430 | .0130 | .3177 | -1.4341 | -.1536 | 1.5000 |
| 3025 | 1.9480 | .5050 | -1.4149 | -.1239 | .4543 | .0543 | .0444 | .5045 | -1.4219 | -.1223 | 1.5000 |
| 3026 | 3.9078 | .6979 | -1.3830 | -.0916 | .5972 | .0697 | .0752 | .6979 | -1.4039 | -.0915 | 1.5000 |
| 3027 | 5.9246 | .9002 | -1.3745 | -.0616 | .7457 | .0931 | .1073 | .8982 | -1.3761 | -.0593 | 1.5000 |
| 3028 | 7.9334 | 1.0959 | -1.3279 | -.0239 | .8908 | .1205 | .1445 | 1.0938 | -1.3345 | -.0222 | 1.5000 |
| 3029 | 10.0091 | 1.2960 | -1.2711 | .0071 | 1.0354 | .1842 | .1763 | 1.2921 | -1.2704 | .0096 | 1.5000 |
| 3030 | 12.1286 | 1.4669 | -1.1672 | .0435 | 1.1586 | .2462 | .2090 | 1.4689 | -1.1979 | .0424 | 1.5000 |
| 3031 | 14.1766 | 1.6538 | -1.1060 | .0781 | 1.2874 | .3226 | .2469 | 1.6492 | -1.1095 | .0803 | 1.5000 |
| 3032 | 16.1914 | 1.8143 | -.9909 | .1146 | 1.4023 | .4063 | .2813 | 1.8142 | -1.0122 | .1146 | 1.5000 |
| 3033 | 18.1873 | 2.0438 | -.8659 | .0877 | 1.5796 | .5242 | .2555 | 2.0407 | -.8791 | .0888 | 1.5000 |
| 3034 | 20.1860 | 2.2388 | -.7462 | .1184 | 1.7239 | .6303 | .2867 | 2.2336 | -.7560 | .1201 | 1.5000 |
| 3035 | 21.6309 | 2.3621 | -.6460 | .1434 | 1.8153 | .7079 | .3107 | 2.3598 | -.6651 | .1441 | 1.5000 |
| 3036 | .0382 | .3069 | -1.3620 | -.1515 | .3060 | .0427 | .0094 | .3070 | -1.4344 | -.1573 | 1.5000 |
| 3037 | .0220 | .1934 | .0378 | -.0447 | .1934 | .0166 | -.0447 | .1934 | .0303 | -.0447 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 182

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3038 | .166 | 1939 | .02 | -.00 | 100437 | .1975 | .0371 | -.0445 | -.0005 | -.0002 | -.0025 |
| 3039 | .165 | 1922 | -1.86 | -.00 | 100453 | .0638 | .0410 | -.0783 | -.0007 | -.0001 | -.0030 |
| 3040 | .166 | 1949 | .04 | -.00 | 100430 | .2001 | .0405 | -.0422 | -.0009 | -.0002 | -.0023 |
| 3041 | .166 | 1935 | 1.94 | -.00 | 100440 | .3273 | .0349 | -.0095 | -.0004 | -.0001 | -.0007 |
| 3042 | .166 | 1945 | 3.90 | -.00 | 100430 | .4581 | .0267 | .0271 | -.0013 | -.0002 | -.0009 |
| 3043 | .166 | 1932 | 5.90 | -.00 | 100443 | .5993 | .0150 | .0649 | -.0007 | -.0005 | -.0016 |
| 3044 | .165 | 1925 | 7.87 | -.00 | 100450 | .7328 | .0072 | .1027 | -.0001 | -.0002 | -.0007 |
| 3045 | .166 | 1932 | 9.95 | -.00 | 100443 | .8653 | -.0012 | .1405 | -.0005 | -.0000 | -.0012 |
| 3046 | .165 | 1922 | 12.08 | -.00 | 100453 | .9871 | -.0044 | .1809 | -.0013 | .0002 | -.0028 |
| 3047 | .167 | 1958 | 14.16 | -.00 | 100413 | 1.0901 | -.0045 | .2317 | -.0006 | .0007 | -.0034 |
| 3048 | .166 | 1929 | 16.16 | -.00 | 100440 | 1.2036 | -.0032 | .2773 | -.0006 | .0010 | -.0067 |
| 3049 | .165 | 1906 | 18.17 | -.00 | 100463 | 1.3165 | .0176 | .2852 | -.0004 | .0001 | .0009 |
| 3050 | .165 | 1922 | 20.18 | -.00 | 100450 | 1.4618 | .0132 | .3218 | -.0006 | .0001 | .0015 |
| 3051 | .165 | 1916 | 21.57 | -.00 | 100460 | 1.5712 | .0076 | .3541 | -.0003 | .0005 | .0060 |
| 3052 | .166 | 1939 | .04 | -.00 | 100443 | .1987 | .0530 | -.0417 | .0003 | .0001 | -.0039 |

TEST 995 RUN 182

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3038 | .0200 | 0.0000 | .9849 | 9.0212 | 0.0000 | 0.0000 | 0.0000 | .0137 | .0075 |
| 3039 | -1.8640 | 0.0000 | .9852 | 9.0207 | 0.0000 | 0.0000 | 0.0000 | .0135 | .0076 |
| 3040 | .0366 | 0.0000 | .9846 | 9.0215 | 0.0000 | 0.0000 | 0.0000 | .0139 | .0076 |
| 3041 | 1.9380 | 0.0000 | .9847 | 9.0214 | 0.0000 | 0.0000 | 0.0000 | .0138 | .0076 |
| 3042 | 3.9003 | 0.0000 | .9839 | 9.0225 | 0.0000 | 0.0000 | 0.0000 | .0145 | .0076 |
| 3043 | 5.8978 | 0.0000 | .9836 | 9.0230 | 0.0000 | 0.0000 | 0.0000 | .0148 | .0077 |
| 3044 | 7.8687 | 0.0000 | .9842 | 9.0222 | 0.0000 | 0.0000 | 0.0000 | .0143 | .0076 |
| 3045 | 9.9509 | 0.0000 | .9831 | 9.0236 | 0.0000 | 0.0000 | 0.0000 | .0151 | .0076 |
| 3046 | 12.0777 | 0.0000 | .9825 | 9.0244 | 0.0000 | 0.0000 | 0.0000 | .0156 | .0081 |
| 3047 | 14.1635 | 0.0000 | .9810 | 9.0266 | 0.0000 | 0.0000 | 0.0000 | .0165 | .0080 |
| 3048 | 16.1608 | 0.0000 | .9799 | 9.0282 | 0.0000 | 0.0000 | 0.0000 | .0176 | .0077 |
| 3049 | 18.1664 | 0.0000 | .9735 | 9.0371 | 0.0000 | 0.0000 | 0.0000 | .0232 | .0089 |
| 3050 | 20.1780 | 0.0000 | .9713 | 9.0401 | 0.0000 | 0.0000 | 0.0000 | .0246 | .0092 |
| 3051 | 21.5749 | 0.0000 | .9717 | 9.0396 | 0.0000 | 0.0000 | 0.0000 | .0242 | .0093 |
| 3052 | .0387 | 0.0000 | .9854 | 9.0204 | 0.0000 | 0.0000 | 0.0000 | .0132 | .0076 |

TEST 995 RUN 182

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3038 | .0200 | .1974 | .0371 | -.0445 | .1974 | .0159 | -.0445 | .1974 | .0296 | -.0445 | 1.0000 |
| 3039 | -1.8640 | .0621 | .0390 | -.0783 | .0621 | .0179 | -.0783 | .0621 | .0314 | -.0783 | 1.0000 |
| 3040 | .0366 | .2001 | .0407 | -.0422 | .2001 | .0192 | -.0422 | .2001 | .0330 | -.0422 | 1.0000 |
| 3041 | 1.9380 | .3259 | .0459 | -.0095 | .3259 | .0245 | -.0095 | .3259 | .0383 | -.0095 | 1.0000 |
| 3042 | 3.9003 | .4552 | .0578 | .0271 | .4552 | .0357 | .0271 | .4552 | .0502 | .0271 | 1.0000 |
| 3043 | 5.8978 | .5946 | .0765 | .0649 | .5946 | .0539 | .0649 | .5946 | .0688 | .0649 | 1.0000 |
| 3044 | 7.8687 | .7249 | .1074 | .1027 | .7249 | .0856 | .1027 | .7249 | .0999 | .1027 | 1.0000 |
| 3045 | 9.9509 | .8525 | .1483 | .1405 | .8525 | .1256 | .1405 | .8525 | .1407 | .1405 | 1.0000 |
| 3046 | 12.0777 | .9662 | .2022 | .1809 | .9662 | .1785 | .1809 | .9662 | .1941 | .1809 | 1.0000 |
| 3047 | 14.1635 | 1.0581 | .2624 | .2317 | 1.0581 | .2379 | .2317 | 1.0581 | .2544 | .2317 | 1.0000 |
| 3048 | 16.1608 | 1.1569 | .3319 | .2773 | 1.1569 | .3066 | .2773 | 1.1569 | .3242 | .2773 | 1.0000 |
| 3049 | 18.1664 | 1.2454 | .4272 | .2852 | 1.2454 | .3950 | .2852 | 1.2454 | .4182 | .2852 | 1.0000 |
| 3050 | 20.1780 | 1.3675 | .5166 | .3218 | 1.3675 | .4828 | .3218 | 1.3675 | .5074 | .3218 | 1.0000 |
| 3051 | 21.5749 | 1.4583 | .5848 | .3541 | 1.4583 | .5513 | .3541 | 1.4583 | .5755 | .3541 | 1.0000 |
| 3052 | .0387 | .1987 | .0532 | -.0417 | .1987 | .0324 | -.0417 | .1987 | .0456 | -.0417 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 183

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3066 | .166 | 1939 | .01 | .00 | 100403 | .1422 | .0381 | -.0342 | -.0033 | -.0014 | -.0212 |
| 3067 | .166 | 1945 | -1.86 | .00 | 100406 | .0037 | .0427 | -.0997 | -.0031 | -.0017 | -.0227 |
| 3068 | .166 | 1939 | .04 | .00 | 100406 | .1433 | .0393 | -.0331 | -.0026 | -.0015 | -.0204 |
| 3069 | .166 | 1932 | 1.95 | -.00 | 100409 | .2801 | .0346 | .0371 | -.0016 | -.0012 | -.0209 |
| 3070 | .166 | 1942 | 3.90 | -.00 | 100406 | .4242 | .0255 | .1136 | -.0019 | -.0013 | -.0197 |
| 3071 | .166 | 1925 | 5.89 | -.00 | 100423 | .5707 | .0116 | .1903 | -.0016 | -.0010 | -.0073 |
| 3072 | .165 | 1919 | 7.93 | .00 | 100430 | .7311 | -.0004 | .2682 | -.0007 | -.0022 | -.0197 |
| 3073 | .165 | 1912 | 10.00 | -.00 | 100436 | .8958 | -.0124 | .3429 | -.0021 | -.0024 | -.0183 |
| 3074 | .165 | 1906 | 12.11 | -.00 | 100443 | 1.0509 | -.0211 | .4245 | -.0017 | -.0017 | -.0206 |
| 3075 | .166 | 1942 | 14.21 | .00 | 100406 | 1.2101 | -.0275 | .4990 | -.0014 | -.0014 | -.0214 |
| 3076 | .165 | 1912 | 16.22 | -.00 | 100443 | 1.3491 | -.0339 | .5657 | -.0032 | -.0014 | -.0211 |
| 3077 | .165 | 1909 | 18.21 | -.00 | 100446 | 1.4956 | -.0417 | .6437 | -.0028 | -.0014 | -.0172 |
| 3078 | .167 | 1965 | 20.22 | -.00 | 100400 | 1.6291 | -.0487 | .7222 | -.0009 | -.0013 | -.0187 |
| 3079 | .164 | 1892 | 21.70 | -.00 | 100463 | 1.7383 | -.0561 | .7866 | -.0012 | -.0010 | -.0195 |
| 3080 | .167 | 1965 | .02 | .00 | 100406 | .1411 | .0382 | -.0358 | -.0010 | -.0014 | -.0218 |

TEST 995 RUN 183

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3066 | .0104 | 0.0000 | .9824 | 4.4683 | 0.0000 | 0.0000 | 0.0000 | .0170 | .0074 |
| 3067 | -1.8575 | 0.0000 | .9837 | 4.4706 | 0.0000 | 0.0000 | 0.0000 | .0157 | .0074 |
| 3068 | .0360 | 0.0000 | .9842 | 4.4715 | 0.0000 | 0.0000 | 0.0000 | .0153 | .0074 |
| 3069 | 1.9506 | 0.0000 | .9840 | 4.4713 | 0.0000 | 0.0000 | 0.0000 | .0155 | .0074 |
| 3070 | 3.9017 | 0.0000 | .9850 | 4.4729 | 0.0000 | 0.0000 | 0.0000 | .0145 | .0074 |
| 3071 | 5.8878 | 0.0000 | .9860 | 4.4748 | 0.0000 | 0.0000 | 0.0000 | .0135 | .0075 |
| 3072 | 7.9330 | 0.0000 | .9861 | 4.4750 | 0.0000 | 0.0000 | 0.0000 | .0134 | .0073 |
| 3073 | 10.0016 | 0.0000 | .9866 | 4.4759 | 0.0000 | 0.0000 | 0.0000 | .0129 | .0073 |
| 3074 | 12.1107 | 0.0000 | .9870 | 4.4767 | 0.0000 | 0.0000 | 0.0000 | .0124 | .0075 |
| 3075 | 14.2107 | 0.0000 | .9866 | 4.4758 | 0.0000 | 0.0000 | 0.0000 | .0125 | .0077 |
| 3076 | 16.2204 | 0.0000 | .9862 | 4.4752 | 0.0000 | 0.0000 | 0.0000 | .0129 | .0074 |
| 3077 | 18.2089 | 0.0000 | .9866 | 4.4759 | 0.0000 | 0.0000 | 0.0000 | .0125 | .0079 |
| 3078 | 20.2180 | 0.0000 | .9857 | 4.4742 | 0.0000 | 0.0000 | 0.0000 | .0128 | .0077 |
| 3079 | 21.7044 | 0.0000 | .9859 | 4.4746 | 0.0000 | 0.0000 | 0.0000 | .0130 | .0078 |
| 3080 | .0219 | 0.0000 | .9885 | 4.4794 | 0.0000 | 0.0000 | 0.0000 | .0109 | .0070 |

TEST 995 RUN 183

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3066 | .0104 | .1422 | .0381 | -.0342 | .1422 | .0137 | -.0342 | .1422 | .0307 | -.0342 | 1.0000 |
| 3067 | -1.8575 | .0051 | .0426 | -.0997 | .0051 | .0195 | -.0997 | .0051 | .0352 | -.0997 | 1.0000 |
| 3068 | .0360 | .1433 | .0393 | -.0331 | .1433 | .0167 | -.0331 | .1433 | .0320 | -.0331 | 1.0000 |
| 3069 | 1.9506 | .2788 | .0441 | .0371 | .2788 | .0212 | .0371 | .2788 | .0367 | .0371 | 1.0000 |
| 3070 | 3.9017 | .4214 | .0543 | .1136 | .4214 | .0325 | .1136 | .4214 | .0469 | .1136 | 1.0000 |
| 3071 | 5.8878 | .5665 | .0701 | .1903 | .5665 | .0491 | .1903 | .5665 | .0627 | .1903 | 1.0000 |
| 3072 | 7.9330 | .7241 | .1005 | .2682 | .7241 | .0798 | .2682 | .7241 | .0932 | .2682 | 1.0000 |
| 3073 | 10.0016 | .8844 | .1433 | .3429 | .8844 | .1231 | .3429 | .8844 | .1360 | .3429 | 1.0000 |
| 3074 | 12.1107 | 1.0319 | .1999 | .4245 | 1.0319 | .1800 | .4245 | 1.0319 | .1924 | .4245 | 1.0000 |
| 3075 | 14.2107 | 1.1798 | .2704 | .4990 | 1.1798 | .2502 | .4990 | 1.1798 | .2628 | .4990 | 1.0000 |
| 3076 | 16.2204 | 1.3049 | .3443 | .5657 | 1.3049 | .3239 | .5657 | 1.3049 | .3369 | .5657 | 1.0000 |
| 3077 | 18.2089 | 1.4337 | .4277 | .6437 | 1.4337 | .4075 | .6437 | 1.4337 | .4198 | .6437 | 1.0000 |
| 3078 | 20.2180 | 1.5455 | .5173 | .7222 | 1.5455 | .4967 | .7222 | 1.5455 | .5096 | .7222 | 1.0000 |
| 3079 | 21.7044 | 1.6358 | .5908 | .7866 | 1.6358 | .5700 | .7866 | 1.6358 | .5830 | .7866 | 1.0000 |
| 3080 | .0219 | .1411 | .0382 | -.0358 | .1411 | .0203 | -.0358 | .1411 | .0313 | -.0358 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 184

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3082 | .166 | 1932 | .02 | .00 | 100423 | .1449 | .0358 | -.0340 | -.0011 | -.0012 | -.0244 |
| 3083 | .166 | 1942 | .01 | .00 | 100420 | .1350 | .0351 | -.0323 | -.0016 | -.0014 | -.0218 |
| 3084 | .165 | 1912 | .03 | -.00 | 100433 | .4013 | -1.7659 | -.2523 | -.0039 | .0017 | -.0188 |
| 3085 | .168 | 1995 | -1.85 | -.00 | 100407 | .2363 | -1.7085 | -.3095 | -.0049 | .0014 | -.0223 |
| 3086 | .167 | 1968 | .07 | .00 | 100430 | .3899 | -1.7004 | -.2429 | -.0038 | .0008 | -.0266 |
| 3087 | .168 | 1975 | 1.98 | -.00 | 100430 | .5331 | -1.7060 | -.1787 | -.0035 | .0016 | -.0175 |
| 3088 | .168 | 1985 | 3.94 | -.00 | 100457 | .6969 | -1.7191 | -.1045 | -.0037 | .0009 | -.0255 |
| 3089 | .170 | 2021 | 5.94 | -.00 | 100421 | .8383 | -1.7064 | -.0353 | -.0043 | .0011 | -.0181 |
| 3090 | .168 | 1985 | 7.97 | -.00 | 100410 | 1.0271 | -1.7579 | .0338 | -.0033 | .0001 | -.0159 |
| 3091 | .168 | 1985 | 10.04 | -.00 | 100427 | 1.2078 | -1.7737 | .0948 | -.0046 | .0003 | -.0133 |
| 3092 | .167 | 1972 | 12.15 | -.00 | 100423 | 1.3915 | -1.8037 | .1690 | -.0045 | .0007 | -.0155 |
| 3093 | .168 | 1995 | 14.23 | -.00 | 100417 | 1.5481 | -1.7929 | .2397 | -.0040 | .0017 | -.0197 |
| 3094 | .167 | 1955 | 16.24 | -.00 | 100423 | 1.7310 | -1.7817 | .3077 | -.0029 | .0019 | -.0208 |
| 3095 | .168 | 1985 | 18.23 | -.00 | 100410 | 1.8839 | -1.7442 | .3719 | -.0027 | .0018 | -.0203 |
| 3096 | .167 | 1949 | 20.23 | -.00 | 100413 | 2.0955 | -1.7791 | .4514 | -.0026 | .0022 | -.0224 |
| 3097 | .166 | 1939 | 21.71 | -.00 | 100423 | 2.2275 | -1.7970 | .4995 | -.0023 | .0020 | -.0216 |
| 3098 | .165 | 1909 | .04 | -.00 | 100446 | .3959 | -1.7707 | -.2530 | -.0026 | .0020 | -.0228 |

TEST 995 RUN 184

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3082 | .0176 | .9586 | .9884 | 4.4792 | 0.0000 | 0.0000 | 0.0000 | .0112 | .0069 |
| 3083 | .0124 | 0.0000 | .9894 | 4.4808 | 0.0000 | 0.0000 | 0.0000 | .0103 | .0068 |
| 3084 | .0294 | 29.5875 | 2.8914 | 7.9045 | 1.8102 | 1.8305 | 0.0000 | -1.8519 | .0364 |
| 3085 | -1.8477 | 29.7748 | 2.9049 | 7.9287 | 1.7494 | 1.7690 | 0.0000 | -1.7864 | .0351 |
| 3086 | .0712 | 29.3713 | 2.8667 | 7.8600 | 1.7406 | 1.7602 | 0.0000 | -1.7755 | .0351 |
| 3087 | 1.9816 | 29.4422 | 2.8738 | 7.8728 | 1.7430 | 1.7626 | 0.0000 | -1.7752 | .0349 |
| 3088 | 3.9390 | 29.5286 | 2.8875 | 7.8975 | 1.7446 | 1.7642 | 0.0000 | -1.7766 | .0349 |
| 3089 | 5.9449 | 29.6391 | 2.8930 | 7.9073 | 1.7222 | 1.7416 | 0.0000 | -1.7438 | .0347 |
| 3090 | 7.9710 | 29.7571 | 2.9038 | 7.9268 | 1.7655 | 1.7853 | 0.0000 | -1.7780 | .0354 |
| 3091 | 10.0400 | 29.8007 | 2.9076 | 7.9336 | 1.7699 | 1.7898 | 0.0000 | -1.7717 | .0357 |
| 3092 | 12.1504 | 29.8982 | 2.9185 | 7.9533 | 1.7912 | 1.8113 | 0.0000 | -1.7807 | .0371 |
| 3093 | 14.2302 | 29.9684 | 2.9225 | 7.9604 | 1.7771 | 1.7971 | 0.0000 | -1.7487 | .0374 |
| 3094 | 16.2395 | 29.3130 | 2.8590 | 7.8462 | 1.7591 | 1.7789 | 0.0000 | -1.7089 | .0366 |
| 3095 | 18.2348 | 29.0962 | 2.8381 | 7.8086 | 1.7159 | 1.7352 | 0.0000 | -1.6463 | .0361 |
| 3096 | 20.2327 | 29.0646 | 2.8368 | 7.8063 | 1.7466 | 1.7662 | 0.0000 | -1.6557 | .0390 |
| 3097 | 21.7108 | 29.0968 | 2.8412 | 7.8142 | 1.7583 | 1.7780 | 0.0000 | -1.6518 | .0400 |
| 3098 | .0383 | 29.4479 | 2.8712 | 7.8682 | 1.8185 | 1.8389 | 0.0000 | -1.8355 | .0362 |

TEST 995 RUN 184

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3082 | .0176 | .1449 | .0359 | -.0340 | .1449 | .0178 | -.0340 | .1449 | .0290 | -.0340 | 1.8000 |
| 3083 | .0124 | .1350 | .0351 | -.0323 | .1350 | .0181 | -.0323 | .1350 | .0283 | -.0323 | 1.8000 |
| 3084 | .0294 | .4022 | -1.7657 | -.2523 | .4012 | .0080 | -.0480 | .4022 | -1.7720 | -.2489 | 1.8000 |
| 3085 | -1.8477 | .1811 | -1.7152 | -.3095 | .2375 | -.0018 | -.1122 | .1801 | -1.7809 | -.3130 | 1.8000 |
| 3086 | .0712 | .3920 | -1.6999 | -.2429 | .3898 | .0056 | -.0466 | .3920 | -1.7744 | -.2474 | 1.8000 |
| 3087 | 1.9816 | .5918 | -1.6865 | -.1787 | .5315 | .0206 | .0180 | .5931 | -1.7584 | -.1828 | 1.8000 |
| 3088 | 3.9390 | .8133 | -1.6672 | -.1045 | .6935 | .0384 | .0923 | .8158 | -1.7373 | -.1085 | 1.8000 |
| 3089 | 5.9449 | 1.0105 | -1.6104 | -.0353 | .8321 | .0679 | .1590 | 1.0165 | -1.7026 | -.0418 | 1.8000 |
| 3090 | 7.9710 | 1.2610 | -1.5985 | .0338 | 1.0162 | .1145 | .2329 | 1.2630 | -1.6483 | .0321 | 1.8000 |
| 3091 | 10.0400 | 1.4985 | -1.5360 | .0948 | 1.1988 | .1711 | .2944 | 1.5003 | -1.5817 | .0936 | 1.8000 |
| 3092 | 12.1504 | 1.7400 | -1.4705 | .1690 | 1.3630 | .2435 | .3711 | 1.7376 | -1.4966 | .1703 | 1.8000 |
| 3093 | 14.2302 | 1.9413 | -1.3574 | .2397 | 1.5044 | .3278 | .4402 | 1.9420 | -1.3975 | .2394 | 1.8000 |
| 3094 | 16.2395 | 2.1602 | -1.2266 | .3077 | 1.6682 | .4257 | .5061 | 2.1660 | -1.2833 | .3053 | 1.8000 |
| 3095 | 18.2348 | 2.3351 | -1.0671 | .3719 | 1.7982 | .5265 | .5655 | 2.3551 | -1.1641 | .3647 | 1.8000 |
| 3096 | 20.2327 | 2.5815 | -.9446 | .4514 | 1.9774 | .6553 | .6485 | 2.5930 | -1.0149 | .4476 | 1.8000 |
| 3097 | 21.7108 | 2.7342 | -.8455 | .4995 | 2.0838 | .7480 | .6978 | 2.7423 | -.9058 | .4970 | 1.8000 |
| 3098 | .0383 | .3971 | -1.7704 | -.2530 | .3959 | .0118 | -.0478 | .3970 | -1.7682 | -.2487 | 1.8000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 185

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3100 | .400 | 10278 | .05 | -.00 | 91589 | .1532 | .0285 | -.0345 | -.0013 | .0000 | -.0032 |
| 3101 | .400 | 10282 | -1.90 | -.00 | 91593 | .0006 | .0305 | -.1042 | -.0017 | -.0004 | -.0024 |
| 3102 | .401 | 10304 | .07 | -.00 | 91552 | .1527 | .0286 | -.0345 | -.0015 | -.0000 | -.0024 |
| 3103 | .400 | 10270 | 2.06 | -.00 | 91565 | .3053 | .0229 | .0407 | -.0014 | -.0000 | -.0032 |
| 3104 | .399 | 10199 | 4.09 | -.00 | 91663 | .4657 | .0150 | .1215 | -.0014 | -.0000 | -.0025 |
| 3105 | .400 | 10276 | 6.20 | -.00 | 91565 | .6306 | .0042 | .2043 | -.0013 | -.0006 | -.0010 |
| 3106 | .399 | 10224 | 8.29 | -.00 | 91616 | .7969 | -.0054 | .2839 | -.0006 | -.0008 | .0002 |
| 3107 | .400 | 10273 | 10.47 | -.00 | 91562 | .9699 | -.0141 | .3649 | -.0006 | -.0005 | -.0010 |
| 3108 | .402 | 10359 | 12.66 | -.00 | 91519 | 1.1305 | -.0164 | .4490 | -.0003 | .0001 | -.0032 |
| 3109 | .400 | 10258 | 14.82 | .00 | 91589 | 1.2836 | -.0175 | .5287 | .0005 | .0002 | -.0056 |
| 3110 | .401 | 10304 | .06 | -.00 | 91559 | .1551 | .0301 | -.0341 | -.0011 | .0000 | -.0028 |

TEST 995 RUN 185

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3100 | .0518 | 0.0000 | .8748 | 4.2746 | 0.0000 | 0.0000 | 0.0000 | .0208 | .0076 |
| 3101 | -1.8958 | 0.0000 | .8756 | 4.2761 | 0.0000 | 0.0000 | 0.0000 | .0206 | .0075 |
| 3102 | .0749 | 0.0000 | .8723 | 4.2701 | 0.0000 | 0.0000 | 0.0000 | .0212 | .0076 |
| 3103 | 2.0630 | 0.0000 | .8724 | 4.2703 | 0.0000 | 0.0000 | 0.0000 | .0212 | .0076 |
| 3104 | 4.0922 | 0.0000 | .8710 | 4.2679 | 0.0000 | 0.0000 | 0.0000 | .0216 | .0076 |
| 3105 | 6.1985 | 0.0000 | .8681 | 4.2625 | 0.0000 | 0.0000 | 0.0000 | .0218 | .0077 |
| 3106 | 8.2875 | 0.0000 | .8676 | 4.2617 | 0.0000 | 0.0000 | 0.0000 | .0219 | .0076 |
| 3107 | 10.4664 | 0.0000 | .8688 | 4.2639 | 0.0000 | 0.0000 | 0.0000 | .0214 | .0077 |
| 3108 | 12.6650 | 0.0000 | .8672 | 4.2610 | 0.0000 | 0.0000 | 0.0000 | .0213 | .0079 |
| 3109 | 14.8233 | 0.0000 | .8629 | 4.2533 | 0.0000 | 0.0000 | 0.0000 | .0221 | .0080 |
| 3110 | .0643 | 0.0000 | .8524 | 4.2343 | 0.0000 | 0.0000 | 0.0000 | .0245 | .0076 |

TEST 995 RUN 185

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3100 | .0518 | .1532 | .0286 | -.0345 | .1532 | .0002 | -.0345 | .1532 | .0210 | -.0345 | 1.0000 |
| 3101 | -1.8958 | .0016 | .0304 | -.1042 | .0016 | .0023 | -.1042 | .0016 | .0229 | -.1042 | 1.0000 |
| 3102 | .0749 | .1527 | .0288 | -.0345 | .1527 | .0001 | -.0345 | .1527 | .0212 | -.0345 | 1.0000 |
| 3103 | 2.0630 | .3043 | .0339 | .0407 | .3043 | .0050 | .0407 | .3043 | .0262 | .0407 | 1.0000 |
| 3104 | 4.0922 | .4635 | .0482 | .1215 | .4635 | .0190 | .1215 | .4635 | .0406 | .1215 | 1.0000 |
| 3105 | 6.1985 | .6265 | .0723 | .2043 | .6265 | .0428 | .2043 | .6265 | .0646 | .2043 | 1.0000 |
| 3106 | 8.2875 | .7894 | .1095 | .2839 | .7894 | .0800 | .2839 | .7894 | .1019 | .2839 | 1.0000 |
| 3107 | 10.4664 | .9563 | .1623 | .3649 | .9563 | .1332 | .3649 | .9563 | .1546 | .3649 | 1.0000 |
| 3108 | 12.6650 | 1.1066 | .2319 | .4490 | 1.1066 | .2026 | .4490 | 1.1066 | .2240 | .4490 | 1.0000 |
| 3109 | 14.8233 | 1.2453 | .3115 | .5287 | 1.2453 | .2814 | .5287 | 1.2453 | .3034 | .5287 | 1.0000 |
| 3110 | .0643 | .1551 | .0302 | -.0341 | .1551 | -.0019 | -.0341 | .1551 | .0226 | -.0341 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 186

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3111 | .400 | 10245 | .06 | -.00 | 91606 | .1573 | .0303 | -.0330 | -.0016 | -.0001 | -.0027 |
| 3112 | .400 | 10261 | .06 | -.00 | 91579 | .1544 | .0303 | -.0328 | -.0012 | -.0001 | -.0023 |
| 3113 | .401 | 10310 | .07 | -.00 | 91535 | .1641 | -.3240 | -.0640 | -.0022 | .0003 | -.0011 |
| 3114 | .401 | 10313 | -1.89 | -.00 | 91549 | .0027 | -.3247 | -.1324 | -.0023 | .0000 | -.0013 |
| 3115 | .401 | 10288 | .08 | -.00 | 91545 | .1627 | -.3295 | -.0632 | -.0018 | .0003 | -.0007 |
| 3116 | .401 | 10310 | 2.09 | -.00 | 91529 | .3210 | -.3349 | .0093 | -.0018 | .0003 | -.0015 |
| 3117 | .399 | 10230 | 4.04 | -.00 | 91629 | .4913 | -.3312 | .0827 | -.0028 | .0003 | -.0033 |
| 3118 | .397 | 10122 | 6.21 | -.00 | 91723 | .6725 | -.3473 | .1673 | -.0029 | -.0004 | -.0000 |
| 3119 | .397 | 10107 | 8.32 | -.00 | 91750 | .8537 | -.3579 | .2429 | -.0018 | -.0005 | .0000 |
| 3121 | .400 | 10245 | .06 | -.00 | 91585 | .1723 | -.3158 | -.0695 | -.0021 | .0004 | -.0030 |
| 3122 | .401 | 10282 | .06 | -.00 | 91562 | .1548 | .0265 | -.0344 | -.0016 | -.0000 | -.0022 |

TEST 995 RUN 186

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3111 | .0628 | 1.4652 | .8529 | 4.2353 | 0.0000 | 0.0000 | 0.0000 | .0245 | .0076 |
| 3112 | .0642 | 0.0000 | .8538 | 4.2368 | 0.0000 | 0.0000 | 0.0000 | .0243 | .0076 |
| 3113 | .0661 | 29.8125 | 3.0478 | 8.1860 | .3484 | .3523 | 0.0000 | -.3389 | .0154 |
| 3114 | -1.8937 | 29.9328 | 3.0600 | 8.2080 | .3504 | .3543 | 0.0000 | -.3407 | .0153 |
| 3115 | .0845 | 30.0260 | 3.0752 | 8.2353 | .3527 | .3567 | 0.0000 | -.3442 | .0155 |
| 3116 | 2.0859 | 30.1187 | 3.0823 | 8.2482 | .3538 | .3577 | 0.0000 | -.3444 | .0157 |
| 3117 | 4.0442 | 29.2574 | 2.9873 | 8.0771 | .3429 | .3468 | 0.0000 | -.3310 | .0154 |
| 3118 | 6.2069 | 29.3679 | 2.9976 | 8.0956 | .3486 | .3525 | 0.0000 | -.3355 | .0159 |
| 3119 | 8.3217 | 29.3877 | 2.9994 | 8.0989 | .3493 | .3533 | 0.0000 | -.3348 | .0166 |
| 3121 | .0645 | 29.0499 | 2.9680 | 8.0425 | .3398 | .3436 | 0.0000 | -.3288 | .0150 |
| 3122 | .0572 | 0.0000 | .8463 | 4.2233 | 0.0000 | 0.0000 | 0.0000 | .0255 | .0076 |

TEST 995 RUN 186

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3111 | .0628 | .1572 | .0305 | -.0330 | .1572 | -.0017 | -.0330 | .1572 | .0228 | -.0330 | .3387 |
| 3112 | .0642 | .1543 | .0304 | -.0328 | .1543 | -.0015 | -.0328 | .1543 | .0228 | -.0328 | .3387 |
| 3113 | .0661 | .1645 | -.3238 | -.0640 | .1641 | .0092 | -.0247 | .1645 | -.3257 | -.0624 | .3387 |
| 3114 | -1.8937 | -.0080 | -.3246 | -.1324 | .0036 | .0182 | -.0929 | -.0075 | -.3245 | -.1307 | .3387 |
| 3115 | .0845 | .1632 | -.3292 | -.0632 | .1627 | .0080 | -.0234 | .1632 | -.3269 | -.0612 | .3387 |
| 3116 | 2.0859 | .3329 | -.3229 | .0093 | .3201 | .0149 | .0492 | .3323 | -.3198 | .0114 | .3387 |
| 3117 | 4.0442 | .5134 | -.2958 | .0827 | .4892 | .0309 | .1214 | .5128 | -.3032 | .0836 | .3387 |
| 3118 | 6.2069 | .7061 | -.2726 | .1673 | .6684 | .0580 | .2067 | .7046 | -.2750 | .1689 | .3387 |
| 3119 | 8.3217 | .8965 | -.2306 | .2429 | .8459 | .0985 | .2823 | .8944 | -.2329 | .2446 | .3387 |
| 3121 | .0645 | .1726 | -.3156 | -.0695 | .1723 | .0092 | -.0312 | .1726 | -.3257 | -.0690 | .3387 |
| 3122 | .0572 | .1548 | .0267 | -.0344 | .1548 | -.0065 | -.0344 | .1548 | .0191 | -.0344 | .3387 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995. RUN 187

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3125 | .166 | 1929 | .01 | -.00 | 100514 | .1496 | .0406 | -.0224 | -.0020 | -.0016 | -.0182 |
| 3126 | .166 | 1942 | -1.88 | -.00 | 100498 | .0051 | .0440 | -.0964 | -.0023 | -.0016 | -.0184 |
| 3127 | .166 | 1949 | .03 | .00 | 100491 | .1516 | .0414 | -.0223 | -.0018 | -.0014 | -.0215 |
| 3128 | .166 | 1939 | 1.95 | .00 | 100494 | .2946 | .0367 | .0538 | -.0019 | -.0016 | -.0218 |
| 3129 | .166 | 1935 | 3.91 | -.00 | 100497 | .4417 | .0294 | .1398 | -.0021 | -.0015 | -.0113 |
| 3130 | .166 | 1929 | 5.91 | -.00 | 100504 | .6066 | .0174 | .2269 | -.0015 | -.0021 | -.0163 |
| 3131 | .165 | 1919 | 7.96 | -.00 | 100514 | .7601 | .0065 | .3094 | -.0013 | -.0025 | -.0154 |
| 3132 | .165 | 1925 | 10.02 | -.00 | 100508 | .9428 | -.0083 | .3967 | -.0013 | -.0022 | -.0151 |
| 3133 | .165 | 1922 | 12.13 | -.00 | 100511 | 1.1042 | -.0141 | .4834 | -.0016 | -.0020 | -.0149 |
| 3134 | .165 | 1922 | 14.23 | -.00 | 100511 | 1.2845 | -.0208 | .5752 | -.0013 | -.0013 | -.0170 |
| 3135 | .165 | 1916 | 16.22 | .00 | 100518 | 1.4365 | -.0277 | .6488 | -.0012 | -.0015 | -.0227 |
| 3136 | .165 | 1912 | 18.22 | -.00 | 100521 | 1.5822 | -.0362 | .7294 | -.0008 | -.0017 | -.0154 |
| 3137 | .167 | 1958 | 20.24 | -.00 | 100467 | 1.7279 | -.0451 | .8137 | -.0005 | -.0013 | -.0140 |
| 3138 | .166 | 1942 | 21.81 | -.00 | 100484 | 1.8417 | -.0522 | .8834 | -.0004 | -.0014 | -.0163 |
| 3139 | .166 | 1932 | .02 | .00 | 100477 | .1421 | .0459 | -.0251 | -.0023 | -.0015 | -.0205 |

TEST 995 RUN 187

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3125 | .0116 | 0.0000 | .9866 | 4.4759 | 0.0000 | 0.0000 | 0.0000 | .0130 | .0070 |
| 3126 | -1.8773 | 0.0000 | .9879 | 4.4782 | 0.0000 | 0.0000 | 0.0000 | .0117 | .0070 |
| 3127 | .0350 | 0.0000 | .9881 | 4.4786 | 0.0000 | 0.0000 | 0.0000 | .0114 | .0071 |
| 3128 | 1.9514 | 0.0000 | .9886 | 4.4794 | 0.0000 | 0.0000 | 0.0000 | .0110 | .0070 |
| 3129 | 3.9088 | 0.0000 | .9891 | 4.4804 | 0.0000 | 0.0000 | 0.0000 | .0105 | .0069 |
| 3130 | 5.9097 | 0.0000 | .9897 | 4.4815 | 0.0000 | 0.0000 | 0.0000 | .0099 | .0070 |
| 3131 | 7.9591 | 0.0000 | .9908 | 4.4834 | 0.0000 | 0.0000 | 0.0000 | .0089 | .0068 |
| 3132 | 10.0247 | 0.0000 | .9910 | 4.4838 | 0.0000 | 0.0000 | 0.0000 | .0086 | .0068 |
| 3133 | 12.1271 | 0.0000 | .9916 | 4.4848 | 0.0000 | 0.0000 | 0.0000 | .0080 | .0070 |
| 3134 | 14.2254 | 0.0000 | .9911 | 4.4840 | 0.0000 | 0.0000 | 0.0000 | .0084 | .0072 |
| 3135 | 16.2221 | 0.0000 | .9917 | 4.4850 | 0.0000 | 0.0000 | 0.0000 | .0078 | .0074 |
| 3136 | 18.2172 | 0.0000 | .9912 | 4.4842 | 0.0000 | 0.0000 | 0.0000 | .0082 | .0073 |
| 3137 | 20.2368 | 0.0000 | .9902 | 4.4823 | 0.0000 | 0.0000 | 0.0000 | .0088 | .0073 |
| 3138 | 21.8072 | 0.0000 | .9901 | 4.4821 | 0.0000 | 0.0000 | 0.0000 | .0089 | .0074 |
| 3139 | .0201 | 0.0000 | .9936 | 4.4886 | 0.0000 | 0.0000 | 0.0000 | .0062 | .0068 |

TEST 995 RUN 187

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3125 | .0116 | .1496 | .0407 | -.0234 | .1496 | .0206 | -.0224 | .1496 | .0336 | -.0224 | 1.0000 |
| 3126 | -1.8773 | .0065 | .0438 | -.0964 | .0065 | .0251 | -.0964 | .0065 | .0368 | -.0964 | 1.0000 |
| 3127 | .0350 | .1515 | .0415 | -.0223 | .1515 | .0229 | -.0223 | .1515 | .0344 | -.0223 | 1.0000 |
| 3128 | 1.9514 | .2932 | .0467 | .0538 | .2932 | .0286 | .0538 | .2932 | .0397 | .0538 | 1.0000 |
| 3129 | 3.9088 | .4386 | .0594 | .1398 | .4386 | .0420 | .1398 | .4386 | .0525 | .1398 | 1.0000 |
| 3130 | 5.9097 | .6016 | .0798 | .2269 | .6016 | .0629 | .2269 | .6016 | .0728 | .2269 | 1.0000 |
| 3131 | 7.9591 | .7519 | .1117 | .3094 | .7519 | .0959 | .3094 | .7519 | .1048 | .3094 | 1.0000 |
| 3132 | 10.0247 | .9291 | .1558 | .3967 | .9291 | .1403 | .3967 | .9291 | .1490 | .3967 | 1.0000 |
| 3133 | 12.1271 | 1.0826 | .2181 | .4834 | 1.0826 | .2031 | .4834 | 1.0826 | .2112 | .4834 | 1.0000 |
| 3134 | 14.2254 | 1.2502 | .2955 | .5752 | 1.2502 | .2799 | .5752 | 1.2502 | .2883 | .5752 | 1.0000 |
| 3135 | 16.2221 | 1.3870 | .3747 | .6488 | 1.3870 | .3595 | .6488 | 1.3870 | .3673 | .6488 | 1.0000 |
| 3136 | 18.2172 | 1.5142 | .4602 | .7294 | 1.5142 | .4448 | .7294 | 1.5142 | .4529 | .7294 | 1.0000 |
| 3137 | 20.2368 | 1.6369 | .5554 | .8137 | 1.6369 | .5393 | .8137 | 1.6369 | .5481 | .8137 | 1.0000 |
| 3138 | 21.8072 | 1.7293 | .6357 | .8834 | 1.7293 | .6194 | .8834 | 1.7293 | .6283 | .8834 | 1.0000 |
| 3139 | .0201 | .1421 | .0459 | -.0251 | .1421 | .0330 | -.0251 | .1421 | .0391 | -.0251 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 188

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3140 | .166 | 1932 | .02 | .00 | 100474 | .1482 | .0448 | -.0223 | -.0012 | -.0019 | -.0244 |
| 3141 | .167 | 1958 | .02 | -.00 | 100467 | .3967 | -1.6397 | -.2215 | -.0030 | .0020 | -.0177 |
| 3142 | .166 | 1949 | -1.86 | -.00 | 100484 | .2428 | -1.6671 | -.2994 | -.0036 | .0014 | -.0146 |
| 3143 | .166 | 1935 | .06 | -.00 | 100497 | .4012 | -1.6933 | -.2297 | -.0036 | .0013 | -.0224 |
| 3144 | .166 | 1942 | 1.97 | -.00 | 100494 | .5532 | -1.7063 | -.1584 | -.0031 | .0018 | -.0177 |
| 3145 | .165 | 1922 | 3.94 | -.00 | 100518 | .7183 | -1.7417 | -.0757 | -.0034 | .0017 | -.0166 |
| 3146 | .166 | 1932 | 5.95 | -.00 | 100508 | .8961 | -1.7570 | .0030 | -.0037 | .0015 | -.0175 |
| 3147 | .166 | 1932 | 7.97 | -.00 | 100514 | 1.0607 | -1.7832 | .0796 | -.0028 | .0009 | -.0191 |
| 3148 | .165 | 1925 | 10.06 | -.00 | 100521 | 1.2632 | -1.8149 | .1578 | -.0039 | .0012 | -.0151 |
| 3149 | .166 | 1942 | 12.14 | -.00 | 100504 | 1.4530 | -1.8173 | .2438 | -.0037 | .0011 | -.0194 |
| 3150 | .166 | 1949 | 14.26 | -.00 | 100501 | 1.6447 | -1.7204 | .3434 | -.0022 | .0015 | -.0214 |
| 3151 | .166 | 1932 | 16.25 | -.00 | 100518 | 1.8245 | -1.7238 | .4161 | -.0015 | .0016 | -.0195 |
| 3152 | .167 | 1958 | 18.26 | -.00 | 100501 | 1.9931 | -1.7218 | .4848 | -.0014 | .0013 | -.0141 |
| 3153 | .166 | 1932 | 20.26 | -.00 | 100525 | 2.2059 | -1.7609 | .5556 | -.0012 | .0022 | -.0194 |
| 3154 | .167 | 1955 | 21.76 | -.00 | 100501 | 2.3345 | -1.7566 | .6211 | -.0013 | .0020 | -.0198 |
| 3155 | .168 | 1978 | .03 | -.00 | 100488 | .3888 | -1.6749 | -.2283 | -.0030 | .0022 | -.0183 |
| 3156 | .166 | 1939 | .01 | -.00 | 100528 | .1426 | .0121 | -.0267 | -.0009 | -.0011 | -.0183 |

TEST 995 RUN 188

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3140 | .0161 | 0.0000 | .9932 | 4.4877 | 0.0000 | 0.0000 | 0.0000 | .0066 | .0068 |
| 3141 | .0237 | 28.7688 | 2.8131 | 7.7636 | 1.7060 | 1.7251 | 0.0000 | -1.7339 | .0351 |
| 3142 | -1.8634 | 28.9954 | 2.8310 | 7.7958 | 1.7352 | 1.7547 | 0.0000 | -1.7592 | .0356 |
| 3143 | .0584 | 29.1031 | 2.8415 | 7.8148 | 1.7586 | 1.7783 | 0.0000 | -1.7826 | .0358 |
| 3144 | 1.9716 | 29.2256 | 2.8517 | 7.8331 | 1.7640 | 1.7838 | 0.0000 | -1.7853 | .0358 |
| 3145 | 3.9398 | 29.3254 | 2.8627 | 7.8528 | 1.7914 | 1.8116 | 0.0000 | -1.8115 | .0364 |
| 3146 | 5.9521 | 29.2721 | 2.8780 | 7.8804 | 1.7852 | 1.8053 | 0.0000 | -1.8114 | .0371 |
| 3147 | 7.9703 | 29.4083 | 2.8956 | 7.9120 | 1.7999 | 1.8201 | 0.0000 | -1.8206 | .0379 |
| 3148 | 10.0564 | 29.5704 | 2.9081 | 7.9346 | 1.8209 | 1.8413 | 0.0000 | -1.8285 | .0386 |
| 3149 | 12.1424 | 29.6496 | 2.9115 | 7.9407 | 1.8126 | 1.8330 | 0.0000 | -1.8029 | .0387 |
| 3150 | 14.2624 | 28.7086 | 2.8169 | 7.7703 | 1.7267 | 1.7461 | 0.0000 | -1.6930 | .0385 |
| 3151 | 16.2487 | 28.3575 | 2.7901 | 7.7223 | 1.7121 | 1.7314 | 0.0000 | -1.6668 | .0389 |
| 3152 | 18.2565 | 28.5488 | 2.8105 | 7.7588 | 1.7073 | 1.7265 | 0.0000 | -1.6447 | .0390 |
| 3153 | 20.2628 | 28.6486 | 2.8206 | 7.7772 | 1.7399 | 1.7594 | 0.0000 | -1.6566 | .0402 |
| 3154 | 21.7639 | 28.7248 | 2.8240 | 7.7833 | 1.7253 | 1.7447 | 0.0000 | -1.6233 | .0405 |
| 3155 | .0279 | 29.0333 | 2.8536 | 7.8365 | 1.7327 | 1.7522 | 0.0000 | -1.7552 | .0357 |
| 3156 | .0064 | 0.0000 | .9993 | 4.4988 | 0.0000 | 0.0000 | 0.0000 | .0007 | .0067 |

TEST 995 RUN 188

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3140 | .0161 | .1482 | .0449 | -.0223 | .1482 | .0315 | -.0223 | .1482 | .0381 | -.0223 | 1.0000 |
| 3141 | .0237 | .3973 | -1.6395 | -.2215 | .3966 | .0313 | -.0290 | .3974 | -1.7487 | -.2298 | 1.8000 |
| 3142 | -1.8634 | .1885 | -1.6741 | -.2994 | .2449 | .0247 | -.1037 | .1870 | -1.7544 | -.3045 | 1.8000 |
| 3143 | .0584 | .4029 | -1.6929 | -.2297 | .4011 | .0299 | -.0313 | .4030 | -1.7501 | -.2321 | 1.8000 |
| 3144 | 1.9716 | .6116 | -1.6862 | -.1584 | .5509 | .0409 | .0406 | .6121 | -1.7381 | -.1602 | 1.8000 |
| 3145 | 3.9398 | .8363 | -1.6882 | -.0757 | .7132 | .0625 | .1264 | .8355 | -1.7133 | -.0745 | 1.8000 |
| 3146 | 5.9521 | 1.0734 | -1.6546 | .0030 | .8883 | .0839 | .2044 | 1.0729 | -1.6865 | .0035 | 1.8000 |
| 3147 | 7.9703 | 1.2977 | -1.6189 | .0796 | 1.0481 | .1257 | .2827 | 1.2949 | -1.6371 | .0818 | 1.8000 |
| 3148 | 10.0564 | 1.5607 | -1.5664 | .1578 | 1.2428 | .1879 | .3632 | 1.5536 | -1.5647 | .1624 | 1.8000 |
| 3149 | 12.1424 | 1.8028 | -1.4710 | .2438 | 1.4215 | .2623 | .4483 | 1.7959 | -1.4779 | .2475 | 1.8000 |
| 3150 | 14.2624 | 2.0179 | -1.2622 | .3434 | 1.5925 | .3727 | .5382 | 2.0310 | -1.3524 | .3374 | 1.8000 |
| 3151 | 16.2487 | 2.2340 | -1.1444 | .4161 | 1.7549 | .4605 | .6093 | 2.2538 | -1.2484 | .4065 | 1.8000 |
| 3152 | 18.2565 | 2.4322 | -1.0108 | .4848 | 1.8973 | .5716 | .6774 | 2.4549 | -1.1188 | .4766 | 1.8000 |
| 3153 | 20.2628 | 2.6792 | -.8879 | .5556 | 2.0766 | .7041 | .7519 | 2.6931 | -.9658 | .5511 | 1.8000 |
| 3154 | 21.7639 | 2.8194 | -.7658 | .6211 | 2.1797 | .7960 | .8158 | 2.8397 | -.8571 | .6149 | 1.8000 |
| 3155 | .0279 | .3897 | -1.6747 | -.2283 | .3888 | .0223 | -.0328 | .3897 | -1.7577 | -.2337 | 1.8000 |
| 3156 | .0064 | .1426 | .0121 | -.0267 | .1426 | .0048 | -.0267 | .1426 | .0055 | -.0267 | 1.0000 |

TEST 995 NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL RUN 189

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3157 | .400 | 10283 | .05 | -.00 | 91674 | .1588 | .0302 | -.0251 | -.0015 | -.0000 | -.0025 |
| 3158 | .400 | 10292 | -1.90 | -.00 | 91687 | .0043 | .0321 | -.1026 | -.0017 | -.0004 | -.0017 |
| 3159 | .401 | 10341 | .09 | -.00 | 91661 | .1628 | .0296 | -.0240 | -.0014 | .0000 | -.0025 |
| 3160 | .402 | 10354 | 2.09 | -.00 | 91685 | .3165 | .0247 | .0567 | -.0012 | -.0000 | -.0025 |
| 3161 | .400 | 10283 | 4.12 | -.00 | 91735 | .4854 | .0176 | .1468 | -.0014 | -.0001 | -.0021 |
| 3162 | .400 | 10274 | 6.22 | -.00 | 91731 | .6585 | .0081 | .2394 | -.0011 | -.0006 | -.0009 |
| 3163 | .401 | 10332 | 8.33 | -.00 | 91674 | .8297 | -.0003 | .3256 | -.0005 | -.0008 | -.0002 |
| 3164 | .400 | 10264 | .06 | -.00 | 91731 | .1647 | .0323 | -.0237 | -.0012 | .0000 | -.0043 |

TEST 995 RUN 189

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3157 | .0522 | 0.0000 | .8923 | 4.3061 | 0.0000 | 0.0000 | 0.0000 | .0179 | .0076 |
| 3158 | -1.8967 | 0.0000 | .8890 | 4.3002 | 0.0000 | 0.0000 | 0.0000 | .0184 | .0076 |
| 3159 | .0913 | 0.0000 | .8854 | 4.2936 | 0.0000 | 0.0000 | 0.0000 | .0189 | .0076 |
| 3160 | 2.0886 | 0.0000 | .8842 | 4.2915 | 0.0000 | 0.0000 | 0.0000 | .0191 | .0076 |
| 3161 | 4.1236 | 0.0000 | .8816 | 4.2869 | 0.0000 | 0.0000 | 0.0000 | .0196 | .0077 |
| 3162 | 6.2193 | 0.0000 | .8800 | 4.2840 | 0.0000 | 0.0000 | 0.0000 | .0199 | .0077 |
| 3163 | 8.3316 | 0.0000 | .8760 | 4.2769 | 0.0000 | 0.0000 | 0.0000 | .0203 | .0076 |
| 3164 | .0592 | 0.0000 | .8751 | 4.2751 | 0.0000 | 0.0000 | 0.0000 | .0208 | .0076 |

TEST 995 RUN 189

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3157 | .0522 | .1588 | .0303 | -.0251 | .1588 | .0048 | -.0251 | .1588 | .0227 | -.0251 | 1.0000 |
| 3158 | -1.8967 | .0053 | .0320 | -.1026 | .0053 | .0060 | -.1026 | .0053 | .0244 | -.1026 | 1.0000 |
| 3159 | .0913 | .1627 | .0298 | -.0240 | .1627 | .0033 | -.0240 | .1627 | .0222 | -.0240 | 1.0000 |
| 3160 | 2.0886 | .3154 | .0362 | .0567 | .3154 | .0095 | .0567 | .3154 | .0286 | .0567 | 1.0000 |
| 3161 | 4.1236 | .4829 | .0525 | .1468 | .4829 | .0252 | .1468 | .4829 | .0448 | .1468 | 1.0000 |
| 3162 | 6.2193 | .6537 | .0794 | .2394 | .6537 | .0519 | .2394 | .6537 | .0717 | .2394 | 1.0000 |
| 3163 | 8.3316 | .8210 | .1199 | .3256 | .8210 | .0920 | .3256 | .8210 | .1123 | .3256 | 1.0000 |
| 3164 | .0592 | .1647 | .0325 | -.0237 | .1647 | .0040 | -.0237 | .1647 | .0248 | -.0237 | 1.0000 |

TEST 995 NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL RUN 190

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3165 | .400 | 10264 | .06 | -.00 | 91735 | .1646 | .0323 | -.0235 | -.0017 | -.0000 | -.0033 |
| 3166 | .400 | 10264 | .07 | -.00 | 91731 | .1864 | -.2976 | -.0599 | -.0024 | .0005 | -.0016 |
| 3167 | .401 | 10298 | -1.89 | -.00 | 91701 | .0251 | -.2960 | -.1328 | -.0024 | .0002 | -.0014 |
| 3168 | .401 | 10345 | .10 | -.00 | 91688 | .1861 | -.2996 | -.0580 | -.0024 | .0004 | -.0022 |
| 3169 | .401 | 10326 | 2.09 | -.00 | 91664 | .3475 | -.3064 | .0208 | -.0024 | .0005 | -.0021 |
| 3170 | .401 | 10308 | 4.14 | -.00 | 91701 | .5206 | -.3159 | .1092 | -.0026 | .0002 | -.0014 |
| 3171 | .401 | 10338 | 6.24 | -.00 | 91678 | .6982 | -.3284 | .2010 | -.0024 | -.0004 | -.0018 |
| 3172 | .400 | 10289 | 7.30 | -.00 | 91698 | .7897 | -.3391 | .2463 | -.0017 | -.0010 | -.0007 |
| 3173 | .401 | 10341 | 8.36 | -.00 | 91647 | .8842 | -.3429 | .2867 | -.0015 | -.0005 | -.0010 |
| 3174 | .400 | 10280 | .07 | -.00 | 91711 | .1803 | -.3171 | -.0570 | -.0022 | .0004 | -.0023 |
| 3175 | .400 | 10283 | .06 | -.00 | 91718 | .1630 | .0296 | -.0249 | -.0015 | -.0000 | -.0023 |

TEST 995 RUN 190

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3165 | .0592 | 0.0000 | .8746 | 4.2742 | 0.0000 | 0.0000 | 0.0000 | .0209 | .0076 |
| 3166 | .0651 | 28.2314 | 2.9271 | 7.9688 | .3261 | .3297 | 0.0000 | -.3211 | .0149 |
| 3167 | -1.8924 | 28.2765 | 2.9286 | 7.9715 | .3260 | .3296 | 0.0000 | -.3200 | .0148 |
| 3168 | .1033 | 28.3827 | 2.9353 | 7.9836 | .3264 | .3300 | 0.0000 | -.3198 | .0148 |
| 3169 | 2.0945 | 28.4824 | 2.9438 | 7.9988 | .3286 | .3323 | 0.0000 | -.3214 | .0149 |
| 3170 | 4.1425 | 28.6096 | 2.9486 | 8.0074 | .3310 | .3348 | 0.0000 | -.3223 | .0151 |
| 3171 | 6.2418 | 28.9845 | 2.9696 | 8.0453 | .3358 | .3396 | 0.0000 | -.3237 | .0157 |
| 3172 | 7.3002 | 28.9403 | 2.9937 | 8.0887 | .3381 | .3419 | 0.0000 | -.3286 | .0161 |
| 3173 | 8.3617 | 29.0685 | 3.0072 | 8.1130 | .3386 | .3424 | 0.0000 | -.3281 | .0161 |
| 3174 | .0693 | 29.1447 | 3.0099 | 8.1179 | .3420 | .3458 | 0.0000 | -.3343 | .0157 |
| 3175 | .0607 | 0.0000 | .8638 | 4.2548 | 0.0000 | 0.0000 | 0.0000 | .0226 | .0076 |

TEST 995 RUN 190

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3165 | .0592 | .1645 | .0325 | -.0235 | .1645 | .0040 | -.0235 | .1645 | .0249 | -.0235 | .3387 |
| 3166 | .0651 | .1867 | -.2974 | -.0599 | .1863 | .0138 | -.0231 | .1867 | -.3211 | -.0609 | .3387 |
| 3167 | -1.8924 | .0154 | -.2967 | -.1328 | .0261 | .0143 | -.0961 | .0151 | -.3204 | -.1338 | .3387 |
| 3168 | .1033 | .1867 | -.2993 | -.0580 | .1861 | .0123 | -.0212 | .1867 | -.3226 | -.0590 | .3387 |
| 3169 | 2.0945 | .3585 | -.2935 | .0208 | .3465 | .0201 | .0579 | .3587 | -.3146 | .0201 | .3387 |
| 3170 | 4.1425 | .5420 | -.2775 | .1092 | .5181 | .0376 | .1466 | .5423 | -.2964 | .1088 | .3387 |
| 3171 | 6.2418 | .7297 | -.2605 | .2010 | .6932 | .0676 | .2389 | .7296 | -.2653 | .2011 | .3387 |
| 3172 | 7.3002 | .8264 | -.2360 | .2463 | .7834 | .0834 | .2845 | .8260 | -.2488 | .2467 | .3387 |
| 3173 | 8.3617 | .9247 | -.2106 | .2867 | .8754 | .1082 | .3249 | .9241 | -.2231 | .2871 | .3387 |
| 3174 | .0693 | .1807 | -.3169 | -.0570 | .1803 | .0094 | -.0184 | .1807 | -.3255 | -.0562 | .3387 |
| 3175 | .0607 | .1630 | .0297 | -.0249 | .1630 | -.0006 | -.0249 | .1630 | .0221 | -.0249 | .3387 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 191

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3178 | .166 | 1932 | .02 | -.00 | 100575 | .2089 | .1019 | .1728 | -.0002 | -.0016 | -.0192 |
| 3179 | .166 | 1945 | -1.84 | -.00 | 100562 | .0767 | .1000 | .1080 | -.0003 | -.0018 | -.0112 |
| 3180 | .166 | 1949 | .06 | -.00 | 100552 | .2119 | .1025 | .1748 | .0001 | -.0014 | -.0145 |
| 3181 | .166 | 1932 | 1.97 | -.00 | 100569 | .3476 | .1082 | .2458 | -.0000 | -.0015 | -.0172 |
| 3182 | .166 | 1935 | 3.93 | -.00 | 100572 | .4929 | .1128 | .3214 | -.0001 | -.0017 | -.0162 |
| 3183 | .166 | 1932 | 5.93 | -.00 | 100582 | .6233 | .1158 | .3832 | .0004 | -.0020 | -.0169 |
| 3184 | .166 | 1935 | 7.96 | -.00 | 100582 | .7846 | .1189 | .4523 | -.0001 | -.0018 | -.0181 |
| 3185 | .166 | 1935 | 10.03 | -.00 | 100589 | .9372 | .1206 | .5342 | -.0002 | -.0016 | -.0191 |
| 3186 | .166 | 1942 | 12.14 | -.00 | 100582 | 1.0825 | .1163 | .6213 | -.0009 | -.0016 | -.0153 |
| 3187 | .166 | 1935 | 14.21 | -.00 | 100592 | 1.2267 | .1166 | .7051 | .0002 | -.0012 | -.0133 |
| 3188 | .166 | 1949 | 16.22 | -.00 | 100582 | 1.3740 | .1158 | .7735 | .0009 | -.0017 | -.0135 |
| 3189 | .165 | 1912 | 18.23 | -.00 | 100616 | 1.5429 | .1181 | .8445 | .0013 | -.0016 | -.0137 |
| 3190 | .165 | 1912 | 20.22 | -.00 | 100619 | 1.7011 | .1181 | .9151 | .0017 | -.0016 | -.0146 |
| 3191 | .166 | 1932 | 21.70 | -.00 | 100599 | 1.8193 | .1140 | .9666 | .0010 | -.0015 | -.0120 |
| 3192 | .165 | 1925 | .03 | -.00 | 100606 | .2071 | .1091 | .1728 | .0009 | -.0015 | -.0185 |

TEST 995 RUN 191

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3178 | .0244 | 0.0000 | .9858 | 4.4744 | 0.0000 | 0.0000 | 0.0000 | .0138 | .0073 |
| 3179 | -1.8398 | 0.0000 | .9865 | 4.4757 | 0.0000 | 0.0000 | 0.0000 | .0130 | .0073 |
| 3180 | .0573 | 0.0000 | .9872 | 4.4769 | 0.0000 | 0.0000 | 0.0000 | .0123 | .0072 |
| 3181 | 1.9712 | 0.0000 | .9882 | 4.4788 | 0.0000 | 0.0000 | 0.0000 | .0114 | .0072 |
| 3182 | 3.9318 | 0.0000 | .9898 | 4.4817 | 0.0000 | 0.0000 | 0.0000 | .0098 | .0072 |
| 3183 | 5.9267 | 0.0000 | .9901 | 4.4821 | 0.0000 | 0.0000 | 0.0000 | .0096 | .0070 |
| 3184 | 7.9607 | 0.0000 | .9906 | 4.4832 | 0.0000 | 0.0000 | 0.0000 | .0090 | .0070 |
| 3185 | 10.0252 | 0.0000 | .9916 | 4.4848 | 0.0000 | 0.0000 | 0.0000 | .0080 | .0071 |
| 3186 | 12.1356 | 0.0000 | .9924 | 4.4863 | 0.0000 | 0.0000 | 0.0000 | .0072 | .0071 |
| 3187 | 14.2113 | 0.0000 | .9917 | 4.4850 | 0.0000 | 0.0000 | 0.0000 | .0078 | .0074 |
| 3188 | 16.2169 | 0.0000 | .9911 | 4.4840 | 0.0000 | 0.0000 | 0.0000 | .0082 | .0081 |
| 3189 | 18.2262 | 0.0000 | .9902 | 4.4823 | 0.0000 | 0.0000 | 0.0000 | .0091 | .0090 |
| 3190 | 20.2213 | 0.0000 | .9889 | 4.4800 | 0.0000 | 0.0000 | 0.0000 | .0102 | .0099 |
| 3191 | 21.7042 | 0.0000 | .9882 | 4.4788 | 0.0000 | 0.0000 | 0.0000 | .0106 | .0102 |
| 3192 | .0264 | 0.0000 | .9961 | 4.4929 | 0.0000 | 0.0000 | 0.0000 | .0038 | .0069 |

TEST 995 RUN 191

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3178 | .0244 | .2088 | .1020 | .1728 | .2088 | .0809 | .1728 | .2088 | .0947 | .1728 | 1.0000 |
| 3179 | -1.8398 | .0798 | .0975 | .1080 | .0798 | .0772 | .1080 | .0798 | .0902 | .1080 | 1.0000 |
| 3180 | .0573 | .2118 | .1028 | .1748 | .2118 | .0832 | .1748 | .2118 | .0955 | .1748 | 1.0000 |
| 3181 | 1.9712 | .3437 | .1201 | .2458 | .3437 | .1015 | .2458 | .3437 | .1129 | .2458 | 1.0000 |
| 3182 | 3.9318 | .4840 | .1464 | .3214 | .4840 | .1294 | .3214 | .4840 | .1392 | .3214 | 1.0000 |
| 3183 | 5.9267 | .6080 | .1796 | .3832 | .6080 | .1630 | .3832 | .6080 | .1726 | .3832 | 1.0000 |
| 3184 | 7.9607 | .7606 | .2265 | .4523 | .7606 | .2105 | .4523 | .7606 | .2194 | .4523 | 1.0000 |
| 3185 | 10.0252 | .9019 | .2819 | .5342 | .9019 | .2668 | .5342 | .9019 | .2748 | .5342 | 1.0000 |
| 3186 | 12.1356 | 1.0339 | .3412 | .6213 | 1.0339 | .3269 | .6213 | 1.0339 | .3341 | .6213 | 1.0000 |
| 3187 | 14.2113 | 1.1605 | .4142 | .7051 | 1.1605 | .3990 | .7051 | 1.1605 | .4068 | .7051 | 1.0000 |
| 3188 | 16.2169 | 1.2870 | .4949 | .7735 | 1.2870 | .4786 | .7735 | 1.2870 | .4868 | .7735 | 1.0000 |
| 3189 | 18.2262 | 1.4286 | .5947 | .8445 | 1.4286 | .5766 | .8445 | 1.4286 | .5057 | .8445 | 1.0000 |
| 3190 | 20.2213 | 1.5554 | .6988 | .9151 | 1.5554 | .6787 | .9151 | 1.5554 | .6889 | .9151 | 1.0000 |
| 3191 | 21.7042 | 1.6482 | .7787 | .9666 | 1.6482 | .7578 | .9666 | 1.6482 | .7685 | .9666 | 1.0000 |
| 3192 | .0264 | .2070 | .1092 | .1728 | .2070 | .0985 | .1728 | .2070 | .1024 | .1728 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 192

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3193 | .166 | 1935 | .02 | -.00 | 100602 | .2122 | .1075 | .1737 | .0000 | -.0016 | -.0170 |
| 3194 | .167 | 1959 | .03 | -.00 | 100582 | .4361 | -1.6005 | -.0239 | -.0007 | .0014 | -.0141 |
| 3195 | .166 | 1952 | -1.86 | -.00 | 100589 | .2894 | -1.6430 | -.0944 | -.0014 | .0018 | -.0150 |
| 3196 | .165 | 1929 | .06 | -.00 | 100619 | .4458 | -1.6765 | -.0325 | -.0014 | .0019 | -.0183 |
| 3197 | .166 | 1952 | 1.98 | -.00 | 100599 | .5920 | -1.6688 | .0396 | -.0017 | .0023 | -.0212 |
| 3198 | .167 | 1955 | 3.94 | -.00 | 100596 | .7367 | -1.6780 | .1143 | -.0023 | .0017 | -.0223 |
| 3199 | .166 | 1942 | 5.96 | -.00 | 100609 | .8848 | -1.6958 | .1773 | -.0026 | .0013 | -.0182 |
| 3200 | .166 | 1932 | 7.98 | -.00 | 100623 | 1.0498 | -1.6160 | .2564 | .0002 | .0007 | -.0216 |
| 3201 | .166 | 1942 | 10.04 | -.00 | 100613 | 1.2322 | -1.5892 | .3335 | -.0008 | .0017 | -.0209 |
| 3202 | .167 | 1959 | 12.15 | -.00 | 100603 | 1.4048 | -1.5811 | .4158 | -.0010 | .0013 | -.0206 |
| 3203 | .166 | 1949 | 14.26 | -.00 | 100616 | 1.5795 | -1.5953 | .4938 | -.0008 | .0016 | -.0161 |
| 3204 | .167 | 1955 | 16.25 | -.00 | 100613 | 1.7504 | -1.6015 | .5654 | -.0008 | .0019 | -.0213 |
| 3205 | .167 | 1959 | 18.28 | -.00 | 100616 | 1.9195 | -1.6082 | .6317 | .0002 | .0021 | -.0233 |
| 3206 | .167 | 1972 | 20.26 | -.00 | 100613 | 2.1210 | -1.6122 | .7014 | .0003 | .0020 | -.0169 |
| 3207 | .167 | 1972 | 21.73 | -.00 | 100620 | 2.2657 | -1.6308 | .7480 | .0004 | .0019 | -.0191 |
| 3208 | .168 | 1978 | .04 | -.00 | 100606 | .4242 | -1.5839 | -.0189 | -.0005 | .0011 | -.0243 |
| 3209 | .166 | 1939 | .02 | -.00 | 100653 | .1985 | .0739 | .1692 | .0011 | -.0013 | -.0194 |

TEST 995 RUN 192

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3193 | .0200 | 0.0000 | .9960 | 4.4927 | 0.0000 | 0.0000 | 0.0000 | .0039 | .0070 |
| 3194 | .0310 | 28.9489 | 2.8372 | 7.8870 | 1.7293 | 1.7488 | 0.0000 | -1.7589 | .0353 |
| 3195 | -1.8562 | 29.3139 | 2.8697 | 7.8654 | 1.7679 | 1.7877 | 0.0000 | -1.7952 | .0359 |
| 3196 | .0635 | 29.4364 | 2.8777 | 7.8799 | 1.7989 | 1.8191 | 0.0000 | -1.8261 | .0363 |
| 3197 | 1.9778 | 29.6124 | 2.8989 | 7.9179 | 1.7958 | 1.8160 | 0.0000 | -1.8233 | .0364 |
| 3198 | 3.9383 | 29.7873 | 2.9164 | 7.9496 | 1.8090 | 1.8294 | 0.0000 | -1.8338 | .0367 |
| 3199 | 5.9595 | 29.8809 | 2.9297 | 7.9735 | 1.8315 | 1.8521 | 0.0000 | -1.8536 | .0374 |
| 3200 | 7.9758 | 28.7172 | 2.8282 | 7.7907 | 1.7453 | 1.7649 | 0.0000 | -1.7577 | .0372 |
| 3201 | 10.0390 | 28.5313 | 2.8130 | 7.7633 | 1.7221 | 1.7415 | 0.0000 | -1.7242 | .0373 |
| 3202 | 12.1522 | 28.6581 | 2.8260 | 7.7869 | 1.7201 | 1.7394 | 0.0000 | -1.7094 | .0379 |
| 3203 | 14.2642 | 28.7594 | 2.8330 | 7.7993 | 1.7365 | 1.7560 | 0.0000 | -1.7100 | .0388 |
| 3204 | 16.2542 | 28.8831 | 2.8481 | 7.8266 | 1.7429 | 1.7625 | 0.0000 | -1.7020 | .0397 |
| 3205 | 18.2813 | 28.8999 | 2.8530 | 7.8354 | 1.7420 | 1.7616 | 0.0000 | -1.6851 | .0406 |
| 3206 | 20.2606 | 29.0510 | 2.8646 | 7.8563 | 1.7418 | 1.7614 | 0.0000 | -1.6640 | .0414 |
| 3207 | 21.7288 | 29.3528 | 2.8797 | 7.8835 | 1.7650 | 1.7849 | 0.0000 | -1.6612 | .0422 |
| 3208 | .0424 | 28.6733 | 2.8208 | 7.7774 | 1.7041 | 1.7233 | 0.0000 | -1.7261 | .0353 |
| 3209 | .0214 | 0.0000 | 1.0028 | 4.5050 | 0.0000 | 0.0000 | 0.0000 | -.0027 | .0071 |

TEST 995 RUN 192

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3193 | .0200 | .2121 | .1075 | .1737 | .2121 | .0966 | .1737 | .2121 | .1005 | .1737 | 1.0000 |
| 3194 | .0310 | .4370 | -1.6002 | -.0239 | .4361 | .0938 | .1712 | .4370 | -1.6862 | -.0296 | 1.8000 |
| 3195 | -1.8562 | .2360 | -1.6515 | -.0944 | .2933 | .0795 | .1051 | .2356 | -1.6995 | -.0957 | 1.8000 |
| 3196 | .0635 | .4477 | -1.6760 | -.0325 | .4457 | .0866 | .1705 | .4477 | -1.6934 | -.0303 | 1.8000 |
| 3197 | 1.9778 | .6492 | -1.6474 | .0396 | .5873 | .1110 | .2422 | .6487 | -1.6680 | .0414 | 1.8000 |
| 3198 | 3.9383 | .8502 | -1.6234 | .1143 | .7260 | .1447 | .3184 | .8482 | -1.6311 | .1176 | 1.8000 |
| 3199 | 5.9595 | 1.0561 | -1.5948 | .1773 | .8660 | .1894 | .3839 | 1.0508 | -1.5810 | .1831 | 1.8000 |
| 3200 | 7.9758 | 1.2639 | -1.4547 | .2564 | 1.0217 | .2365 | .4533 | 1.2687 | -1.5263 | .2525 | 1.8000 |
| 3201 | 10.0390 | 1.4904 | -1.3500 | .3335 | 1.1902 | .3884 | .5278 | 1.5005 | -1.4443 | .3269 | 1.8000 |
| 3202 | 12.1522 | 1.7054 | -1.2501 | .4150 | 1.3433 | .3935 | .6090 | 1.7180 | -1.3466 | .4082 | 1.8000 |
| 3203 | 14.2642 | 1.9239 | -1.1570 | .4938 | 1.4961 | .4871 | .6897 | 1.9346 | -1.2380 | .4888 | 1.8000 |
| 3204 | 16.2542 | 2.1287 | -1.0476 | .5654 | 1.6409 | .5868 | .7620 | 2.1391 | -1.1229 | .5612 | 1.8000 |
| 3205 | 18.2813 | 2.3271 | -.9249 | .6317 | 1.7806 | .6886 | .8282 | 2.3390 | -1.0016 | .6274 | 1.8000 |
| 3206 | 20.2606 | 2.5480 | -.7779 | .7014 | 1.9446 | .8147 | .8979 | 2.5612 | -.8552 | .6971 | 1.8000 |
| 3207 | 21.7288 | 2.7085 | -.6761 | .7480 | 2.0551 | .9213 | .9471 | 2.7140 | -.7322 | .7463 | 1.8000 |
| 3208 | .0424 | .4253 | -1.5836 | -.0189 | .4241 | .0852 | .1734 | .4254 | -1.6948 | -.0274 | 1.8000 |
| 3209 | .0214 | .1985 | .0740 | .1692 | .1985 | .0695 | .1692 | .1985 | .0669 | .1692 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 193

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3212 | .166 | 1935 | -.01 | -.00 | 100653 | .0110 | .0946 | -.2415 | -.0034 | -.0019 | -.0172 |
| 3213 | .165 | 1922 | -1.90 | -.00 | 100667 | -.1235 | .1884 | -.3036 | -.0022 | -.0019 | -.0178 |
| 3214 | .166 | 1939 | .00 | -.00 | 100647 | .0123 | .0959 | -.2393 | -.0024 | -.0019 | -.0152 |
| 3215 | .166 | 1935 | 1.93 | -.00 | 100646 | .1542 | .0795 | -.1734 | -.0024 | -.0019 | -.0166 |
| 3216 | .166 | 1942 | 3.89 | -.00 | 100647 | .2943 | .0608 | -.0968 | -.0029 | -.0023 | -.0165 |
| 3217 | .165 | 1922 | 5.88 | -.00 | 100667 | .4365 | .0401 | -.0174 | -.0028 | -.0021 | -.0109 |
| 3218 | .166 | 1949 | 7.94 | -.00 | 100647 | .6045 | .0213 | .0629 | -.0016 | -.0020 | -.0180 |
| 3219 | .166 | 1942 | 9.99 | -.00 | 100653 | .7675 | .0048 | .1376 | -.0022 | -.0015 | -.0166 |
| 3220 | .167 | 1955 | 12.10 | -.00 | 100640 | .9241 | -.0097 | .2194 | -.0025 | -.0012 | -.0185 |
| 3221 | .166 | 1942 | 14.21 | -.00 | 100660 | 1.0692 | -.0228 | .3012 | -.0025 | -.0012 | -.0186 |
| 3222 | .166 | 1949 | 16.19 | -.00 | 100653 | 1.2010 | -.0358 | .3834 | -.0031 | -.0016 | -.0116 |
| 3223 | .165 | 1925 | 18.20 | -.00 | 100677 | 1.3424 | -.0486 | .4620 | -.0022 | -.0016 | -.0181 |
| 3224 | .165 | 1929 | 20.19 | -.00 | 100680 | 1.4774 | -.0581 | .5401 | -.0012 | -.0016 | -.0143 |
| 3225 | .166 | 1939 | 21.77 | -.00 | 100670 | 1.6043 | -.0668 | .5960 | -.0015 | -.0013 | -.0139 |
| 3226 | .166 | 1949 | -.01 | -.00 | 100660 | .0144 | .1043 | -.2395 | -.0015 | -.0019 | -.0155 |

TEST 995 RUN 193

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3212 | -.0135 | .4459 | .9793 | 4.4628 | 0.0000 | 0.0000 | 0.0000 | .0200 | .0073 |
| 3213 | -1.8986 | .6795 | .9796 | 4.4632 | 0.0000 | 0.0000 | 0.0000 | .0199 | .0078 |
| 3214 | .0029 | .3622 | .9799 | 4.4639 | 0.0000 | 0.0000 | 0.0000 | .0194 | .0073 |
| 3215 | 1.9304 | .4426 | .9808 | 4.4655 | 0.0000 | 0.0000 | 0.0000 | .0186 | .0071 |
| 3216 | 3.8939 | .3605 | .9817 | 4.4670 | 0.0000 | 0.0000 | 0.0000 | .0177 | .0070 |
| 3217 | 5.8767 | .4410 | .9807 | 4.4653 | 0.0000 | 0.0000 | 0.0000 | .0187 | .0069 |
| 3218 | 7.9364 | .4392 | .9798 | 4.4636 | 0.0000 | 0.0000 | 0.0000 | .0193 | .0069 |
| 3219 | 9.9936 | .5061 | .9811 | 4.4659 | 0.0000 | 0.0000 | 0.0000 | .0180 | .0070 |
| 3220 | 12.1004 | .4368 | .9799 | 4.4639 | 0.0000 | 0.0000 | 0.0000 | .0188 | .0074 |
| 3221 | 14.2081 | .5031 | .9796 | 4.4632 | 0.0000 | 0.0000 | 0.0000 | .0191 | .0076 |
| 3222 | 16.1879 | .5022 | .9788 | 4.4618 | 0.0000 | 0.0000 | 0.0000 | .0196 | .0078 |
| 3223 | 18.1990 | .4337 | .9759 | 4.4566 | 0.0000 | 0.0000 | 0.0000 | .0223 | .0079 |
| 3224 | 20.1921 | .4320 | .9736 | 4.4524 | 0.0000 | 0.0000 | 0.0000 | .0241 | .0080 |
| 3225 | 21.7714 | .4968 | .9705 | 4.4468 | 0.0000 | 0.0000 | 0.0000 | .0266 | .0084 |
| 3226 | -.0064 | .4923 | .9815 | 4.4668 | 0.0000 | 0.0000 | 0.0000 | .0178 | .0074 |

TEST 995 RUN 193

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3212 | -.0135 | .0111 | .0946 | -.2415 | .0111 | .0673 | -.2415 | .0111 | .0873 | -.2415 | 1.0000 |
| 3213 | -1.8986 | -.1198 | .1124 | -.3036 | -.1198 | .0847 | -.3036 | -.1198 | .1046 | -.3036 | 1.0000 |
| 3214 | .0029 | .0123 | .0959 | -.2393 | .0123 | .0691 | -.2393 | .0123 | .0886 | -.2393 | 1.0000 |
| 3215 | 1.9304 | .1514 | .0846 | -.1734 | .1514 | .0590 | -.1734 | .1514 | .0776 | -.1734 | 1.0000 |
| 3216 | 3.8939 | .2895 | .0806 | -.0968 | .2895 | .0559 | -.0968 | .2895 | .0736 | -.0968 | 1.0000 |
| 3217 | 5.8767 | .4301 | .0846 | -.0174 | .4301 | .0590 | -.0174 | .4301 | .0777 | -.0174 | 1.0000 |
| 3218 | 7.9364 | .5957 | .1046 | .0629 | .5957 | .0784 | .0629 | .5957 | .0976 | .0629 | 1.0000 |
| 3219 | 9.9936 | .7550 | .1379 | .1376 | .7550 | .1128 | .1376 | .7550 | .1308 | .1376 | 1.0000 |
| 3220 | 12.1004 | .9056 | .1842 | .2194 | .9056 | .1580 | .2194 | .9056 | .1768 | .2194 | 1.0000 |
| 3221 | 14.2081 | 1.0421 | .2403 | .3012 | 1.0421 | .2136 | .3012 | 1.0421 | .2327 | .3012 | 1.0000 |
| 3222 | 16.1879 | 1.1634 | .3005 | .3834 | 1.1634 | .2730 | .3834 | 1.1634 | .2926 | .3834 | 1.0000 |
| 3223 | 18.1990 | 1.2904 | .3731 | .4620 | 1.2904 | .3429 | .4620 | 1.2904 | .3652 | .4620 | 1.0000 |
| 3224 | 20.1921 | 1.4066 | .4554 | .5401 | 1.4066 | .4233 | .5401 | 1.4066 | .4474 | .5401 | 1.0000 |
| 3225 | 21.7714 | 1.5147 | .5330 | .5960 | 1.5147 | .4981 | .5960 | 1.5147 | .5246 | .5960 | 1.0000 |
| 3226 | -.0064 | .0144 | .1043 | -.2395 | .0144 | .0791 | -.2395 | .0144 | .0969 | -.2395 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 194

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3228 | .166 | 1952 | .01 | -.00 | 100681 | .2697 | -1.5916 | -.4498 | -.0033 | .0009 | -.0119 |
| 3229 | .166 | 1949 | -1.07 | -.00 | 100680 | .1270 | -1.5848 | -.5085 | -.0025 | .0012 | -.0122 |
| 3230 | .167 | 1962 | .04 | -.00 | 100667 | .2881 | -1.5937 | -.4451 | -.0031 | .0009 | -.0117 |
| 3231 | .165 | 1929 | 1.96 | -.00 | 100781 | .4248 | -1.6422 | -.3889 | -.0034 | .0016 | -.0118 |
| 3232 | .166 | 1935 | 3.91 | -.00 | 100694 | .5794 | -1.6660 | -.3205 | -.0036 | .0012 | -.0096 |
| 3233 | .166 | 1952 | 5.92 | -.00 | 100684 | .7378 | -1.6799 | -.2425 | -.0036 | .0008 | -.0142 |
| 3234 | .166 | 1939 | 7.97 | -.00 | 100697 | .9211 | -1.7178 | -.1636 | -.0028 | .0010 | -.0156 |
| 3235 | .166 | 1949 | 10.02 | -.00 | 100691 | 1.0998 | -1.7232 | -.0958 | -.0038 | .0015 | -.0151 |
| 3236 | .166 | 1935 | 12.13 | -.00 | 100707 | 1.2744 | -1.7595 | -.0281 | -.0038 | .0022 | -.0104 |
| 3237 | .166 | 1932 | 14.23 | -.00 | 100714 | 1.4322 | -1.7825 | .0458 | -.0038 | .0029 | -.0252 |
| 3238 | .166 | 1949 | 16.22 | -.00 | 100697 | 1.5840 | -1.7855 | .1207 | -.0046 | .0023 | -.0164 |
| 3239 | .167 | 1959 | 18.24 | -.00 | 100687 | 1.7433 | -1.8020 | .1857 | -.0055 | .0023 | -.0155 |
| 3240 | .168 | 1978 | 20.22 | -.00 | 100677 | 1.9194 | -1.8046 | .2532 | -.0062 | .0018 | -.0169 |
| 3241 | .166 | 1982 | 21.80 | -.00 | 100667 | 2.0775 | -1.8247 | .3044 | -.0053 | .0018 | -.0159 |
| 3242 | .167 | 1959 | .01 | -.00 | 100701 | .2695 | -1.6534 | -.4589 | -.0038 | .0008 | -.0238 |
| 3243 | .166 | 1949 | -.00 | -.00 | 100721 | .0881 | .0828 | -.2445 | .0010 | -.0015 | -.0152 |

TEST 995 RUN 194

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3228 | .0126 | 28.5586 | 2.7964 | 7.7329 | 1.7839 | 1.7231 | 0.0000 | -1.7273 | .0327 |
| 3229 | -1.0692 | 28.5939 | 2.8003 | 7.7406 | 1.7899 | 1.7291 | 0.0000 | -1.7331 | .0334 |
| 3230 | .0368 | 28.6237 | 2.8050 | 7.7498 | 1.7825 | 1.7217 | 0.0000 | -1.7266 | .0326 |
| 3231 | 1.9645 | 28.6542 | 2.8056 | 7.7581 | 1.7741 | 1.7535 | 0.0000 | -1.7563 | .0335 |
| 3232 | 3.9133 | 28.9884 | 2.8205 | 7.7770 | 1.7536 | 1.7733 | 0.0000 | -1.7616 | .0340 |
| 3233 | 5.9161 | 28.8400 | 2.8298 | 7.7937 | 1.7340 | 1.7535 | 0.0000 | -1.7581 | .0344 |
| 3234 | 7.9668 | 29.2012 | 2.8408 | 7.8134 | 1.7710 | 1.7909 | 0.0000 | -1.7652 | .0349 |
| 3235 | 10.0240 | 28.9868 | 2.8391 | 7.8183 | 1.7487 | 1.7683 | 0.0000 | -1.7445 | .0351 |
| 3236 | 12.1323 | 29.0255 | 2.8480 | 7.8264 | 1.7677 | 1.7875 | 0.0000 | -1.7526 | .0358 |
| 3237 | 14.2256 | 29.1187 | 2.8588 | 7.8459 | 1.7785 | 1.7985 | 0.0000 | -1.7589 | .0363 |
| 3238 | 16.2234 | 29.1784 | 2.8643 | 7.8558 | 1.7698 | 1.7869 | 0.0000 | -1.7245 | .0365 |
| 3239 | 18.2440 | 29.3430 | 2.8810 | 7.8859 | 1.7766 | 1.7966 | 0.0000 | -1.7121 | .0368 |
| 3240 | 20.2242 | 29.3559 | 2.8824 | 7.8882 | 1.7611 | 1.7809 | 0.0000 | -1.6757 | .0376 |
| 3241 | 21.8026 | 29.5768 | 2.8904 | 7.9827 | 1.7737 | 1.7937 | 0.0000 | -1.6622 | .0383 |
| 3242 | .0124 | 29.4356 | 2.8648 | 7.8566 | 1.7807 | 1.8007 | 0.0000 | -1.7874 | .0328 |
| 3243 | -.0046 | 0.0000 | .9802 | 4.4643 | 0.0000 | 0.0000 | 0.0000 | .0191 | .0069 |

TEST 995 RUN 194

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3228 | .0126 | .2701 | -1.5915 | -.4498 | .2697 | .0797 | -.2576 | .2701 | -1.7083 | -.4584 | 1.8000 |
| 3229 | -1.0692 | .0792 | -1.5881 | -.5085 | .1318 | .2075 | -.3156 | .0738 | -1.6916 | -.5164 | 1.8000 |
| 3230 | .0368 | .2012 | -1.5935 | -.4451 | .2801 | .0764 | -.2530 | .2012 | -1.7036 | -.4539 | 1.8000 |
| 3231 | 1.9645 | .4888 | -1.6266 | -.3889 | .4214 | .0729 | -.1932 | .4824 | -1.7060 | -.3940 | 1.8000 |
| 3232 | 3.9133 | .6918 | -1.6226 | -.3205 | .5721 | .0929 | -.1226 | .6936 | -1.6829 | -.3234 | 1.8000 |
| 3233 | 5.9161 | .9070 | -1.5949 | -.2425 | .7253 | .0954 | -.0469 | .9117 | -1.6751 | -.2477 | 1.8000 |
| 3234 | 7.9668 | 1.1503 | -1.5736 | -.1636 | .9048 | .1454 | .0362 | 1.1515 | -1.6174 | -.1647 | 1.8000 |
| 3235 | 10.0240 | 1.3829 | -1.5854 | -.0958 | 1.0786 | .1814 | .1014 | 1.3884 | -1.5714 | -.0994 | 1.8000 |
| 3236 | 12.1323 | 1.6157 | -1.4524 | -.0281 | 1.2442 | .2408 | .1713 | 1.6183 | -1.5003 | -.0295 | 1.8000 |
| 3237 | 14.2256 | 1.8263 | -1.3759 | .0458 | 1.3892 | .3118 | .2465 | 1.8266 | -1.4137 | .0457 | 1.8000 |
| 3238 | 16.2234 | 2.0198 | -1.2719 | .1207 | 1.5255 | .3982 | .3283 | 2.0229 | -1.3189 | .1195 | 1.8000 |
| 3239 | 18.2440 | 2.2196 | -1.1657 | .1857 | 1.6636 | .4848 | .3861 | 2.2208 | -1.2057 | .1853 | 1.8000 |
| 3240 | 20.2242 | 2.4258 | -1.0298 | .2532 | 1.8162 | .5858 | .4519 | 2.4315 | -1.0852 | .2511 | 1.8000 |
| 3241 | 21.8026 | 2.6066 | -.9226 | .3044 | 1.9478 | .6868 | .5045 | 2.6089 | -.9667 | .3037 | 1.8000 |
| 3242 | .0124 | .2699 | -1.6534 | -.4589 | .2695 | .0945 | -.2580 | .2699 | -1.6855 | -.4588 | 1.8000 |
| 3243 | -.0046 | .0881 | .0828 | -.2445 | .0881 | .0568 | -.2445 | .0881 | .0759 | -.2445 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 195

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3255 | .400 | 10321 | .02 | -.00 | 91976 | .1620 | .0338 | -.0381 | -.0014 | .0004 | .0001 |
| 3256 | .400 | 10380 | -1.91 | -.00 | 92886 | .0211 | .0342 | -.0728 | -.0016 | .0008 | .0010 |
| 3257 | .400 | 10321 | .05 | -.00 | 91999 | .1623 | .0330 | -.0380 | -.0011 | .0004 | -.0002 |
| 3258 | .401 | 10346 | 2.04 | -.00 | 91996 | .3044 | .0269 | -.0028 | -.0017 | .0003 | .0004 |
| 3259 | .400 | 10303 | 4.03 | -.00 | 92053 | .4365 | .0153 | .0345 | -.0017 | .0002 | .0004 |
| 3260 | .400 | 10324 | 6.10 | -.00 | 91996 | .5697 | -.0011 | .0765 | -.0023 | -.0009 | .0031 |
| 3261 | .401 | 10343 | 8.18 | -.00 | 91976 | .7121 | -.0085 | .1182 | -.0015 | -.0001 | .0009 |
| 3262 | .400 | 10306 | 10.33 | -.00 | 91996 | .8487 | -.0115 | .1573 | -.0013 | .0003 | .0005 |
| 3263 | .399 | 10263 | 12.48 | -.00 | 92026 | .9802 | -.0112 | .2049 | -.0010 | .0004 | .0006 |
| 3264 | .400 | 10380 | 14.63 | -.00 | 91989 | 1.0687 | -.0035 | .2480 | .0002 | .0004 | .0002 |
| 3265 | .400 | 10309 | .05 | -.00 | 91992 | .1654 | .0338 | -.0376 | -.0011 | .0003 | -.0004 |

TEST 995 RUN 195

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3255 | .0162 | 0.0000 | .8727 | 4.2708 | 0.0000 | 0.0000 | 0.0000 | .0212 | .0077 |
| 3256 | -1.9148 | 0.0000 | .8710 | 4.2679 | 0.0000 | 0.0000 | 0.0000 | .0215 | .0077 |
| 3257 | .0534 | 0.0000 | .8694 | 4.2650 | 0.0000 | 0.0000 | 0.0000 | .0217 | .0077 |
| 3258 | 2.0376 | 0.0000 | .8662 | 4.2591 | 0.0000 | 0.0000 | 0.0000 | .0222 | .0076 |
| 3259 | 4.0323 | 0.0000 | .8664 | 4.2596 | 0.0000 | 0.0000 | 0.0000 | .0222 | .0078 |
| 3260 | 6.0997 | 0.0000 | .8662 | 4.2591 | 0.0000 | 0.0000 | 0.0000 | .0221 | .0075 |
| 3261 | 8.1817 | 0.0000 | .8662 | 4.2592 | 0.0000 | 0.0000 | 0.0000 | .0220 | .0073 |
| 3262 | 10.3348 | 0.0000 | .8607 | 4.2492 | 0.0000 | 0.0000 | 0.0000 | .0228 | .0075 |
| 3263 | 12.4811 | 0.0000 | .8554 | 4.2396 | 0.0000 | 0.0000 | 0.0000 | .0236 | .0078 |
| 3264 | 14.6262 | 0.0000 | .8388 | 4.2099 | 0.0000 | 0.0000 | 0.0000 | .0260 | .0078 |
| 3265 | .0523 | 0.0000 | .8560 | 4.2408 | 0.0000 | 0.0000 | 0.0000 | .0240 | .0077 |

TEST 995 RUN 195

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3255 | .0162 | .1620 | .0339 | -.0381 | .1620 | .0851 | -.0381 | .1620 | .0262 | -.0381 | 1.0000 |
| 3256 | -1.9148 | .0222 | .0335 | -.0728 | .0222 | .0844 | -.0728 | .0222 | .0258 | -.0728 | 1.0000 |
| 3257 | .0534 | .1622 | .0332 | -.0380 | .1622 | .0838 | -.0380 | .1622 | .0255 | -.0380 | 1.0000 |
| 3258 | 2.0376 | .3032 | .0377 | -.0028 | .3032 | .0879 | -.0028 | .3032 | .0301 | -.0028 | 1.0000 |
| 3259 | 4.0323 | .4343 | .0460 | .0345 | .4343 | .0162 | .0345 | .4343 | .0384 | .0345 | 1.0000 |
| 3260 | 6.0997 | .5666 | .0595 | .0765 | .5666 | .0299 | .0765 | .5666 | .0520 | .0765 | 1.0000 |
| 3261 | 8.1817 | .7061 | .0929 | .1182 | .7061 | .0636 | .1182 | .7061 | .0856 | .1182 | 1.0000 |
| 3262 | 10.3348 | .8370 | .1409 | .1573 | .8370 | .1106 | .1573 | .8378 | .1334 | .1573 | 1.0000 |
| 3263 | 12.4811 | .9399 | .1966 | .2049 | .9399 | .1652 | .2049 | .9399 | .1888 | .2049 | 1.0000 |
| 3264 | 14.6262 | 1.0349 | .2664 | .2480 | 1.0349 | .2327 | .2480 | 1.0349 | .2587 | .2480 | 1.0000 |
| 3265 | .0523 | .1653 | .0339 | -.0376 | .1653 | .0823 | -.0376 | .1653 | .0263 | -.0376 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 196

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3266 | .401 | 10330 | .05 | -.00 | 91993 | .1658 | .0336 | -.0379 | -.0014 | .0002 | .0005 |
| 3267 | .401 | 10343 | .06 | -.00 | 91993 | .1882 | -.2939 | -.0715 | -.0016 | .0008 | .0007 |
| 3268 | .402 | 10386 | -1.91 | -.00 | 91963 | .0380 | -.2938 | -.1037 | -.0026 | .0004 | .0020 |
| 3269 | .402 | 10389 | .07 | -.00 | 91939 | .1870 | -.2962 | -.0703 | -.0021 | .0008 | .0007 |
| 3270 | .401 | 10368 | 2.05 | -.00 | 91969 | .3280 | -.3083 | -.0376 | -.0022 | .0008 | .0009 |
| 3271 | .400 | 10290 | 4.06 | -.00 | 92036 | .4742 | -.3234 | -.0029 | -.0031 | .0005 | .0015 |
| 3272 | .400 | 10303 | 6.12 | -.00 | 92009 | .6223 | -.3412 | .0345 | -.0033 | -.0005 | .0029 |
| 3273 | .401 | 10337 | 8.23 | -.00 | 91959 | .7826 | -.3493 | .0737 | -.0026 | .0003 | .0014 |
| 3274 | .401 | 10340 | 10.35 | -.00 | 91993 | .9200 | -.3540 | .1088 | -.0024 | .0005 | .0013 |
| 3275 | .400 | 10303 | 12.52 | -.00 | 92019 | 1.0409 | -.3594 | .1526 | -.0023 | .0005 | .0007 |
| 3276 | .401 | 10331 | 14.68 | -.00 | 92006 | 1.1634 | -.3539 | .1810 | -.0012 | .0005 | -.0005 |
| 3277 | .400 | 10281 | .04 | -.00 | 92023 | .1750 | -.3207 | -.0699 | -.0025 | .0006 | .0012 |
| 3278 | .400 | 10318 | .03 | -.00 | 92006 | .1640 | .0302 | -.0389 | -.0015 | .0003 | .0006 |

TEST 995 RUN 196

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CHU,N | CHU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3266 | .0522 | 0.0000 | .8552 | 4.2394 | 0.0000 | 0.0000 | 0.0000 | .0240 | .0076 |
| 3267 | .0618 | 28.1995 | 2.8955 | 7.9119 | .3194 | .3230 | 0.0000 | -.3143 | .0148 |
| 3268 | -1.9087 | 28.2735 | 2.9039 | 7.9271 | .3195 | .3231 | 0.0000 | -.3141 | .0149 |
| 3269 | .0714 | 28.3364 | 2.9123 | 7.9421 | .3205 | .3241 | 0.0000 | -.3155 | .0146 |
| 3270 | 2.0482 | 28.5744 | 2.9287 | 7.9717 | .3255 | .3292 | 0.0000 | -.3187 | .0147 |
| 3271 | 4.0610 | 28.6228 | 2.9309 | 7.9756 | .3289 | .3326 | 0.0000 | -.3211 | .0148 |
| 3272 | 6.1244 | 28.7537 | 2.9478 | 8.0060 | .3314 | .3351 | 0.0000 | -.3224 | .0149 |
| 3273 | 8.2304 | 28.8799 | 2.9650 | 8.0370 | .3329 | .3367 | 0.0000 | -.3225 | .0153 |
| 3274 | 10.3518 | 29.0077 | 2.9714 | 8.0486 | .3351 | .3389 | 0.0000 | -.3217 | .0157 |
| 3275 | 12.5220 | 29.2964 | 2.9944 | 8.0899 | .3412 | .3450 | 0.0000 | -.3242 | .0159 |
| 3276 | 14.6756 | 29.8954 | 2.9987 | 8.0977 | .3476 | .3515 | 0.0000 | -.3210 | .0154 |
| 3277 | .0442 | 29.3976 | 3.0112 | 8.1201 | .3442 | .3481 | 0.0000 | -.3356 | .0153 |
| 3278 | .0331 | 0.0000 | .8476 | 4.2257 | 0.0000 | 0.0000 | 0.0000 | .0253 | .0078 |

TEST 995 RUN 196

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CHU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3266 | .0522 | .1650 | .0337 | -.0379 | .1650 | .0021 | -.0379 | .1650 | .0261 | -.0379 | .3387 |
| 3267 | .0618 | .1885 | -.2937 | -.0715 | .1881 | .0110 | -.0355 | .1885 | -.3239 | -.0732 | .3387 |
| 3268 | -1.9087 | .0282 | -.2949 | -.1037 | .0388 | .0095 | -.0677 | .0277 | -.3252 | -.1054 | .3387 |
| 3269 | .0714 | .1874 | -.2959 | -.0703 | .1870 | .0098 | -.0341 | .1874 | -.3251 | -.0719 | .3387 |
| 3270 | 2.0482 | .3389 | -.2964 | -.0376 | .3272 | .0142 | -.0009 | .3392 | -.3205 | -.0386 | .3387 |
| 3271 | 4.0610 | .4959 | -.2890 | -.0029 | .4726 | .0243 | .0342 | .4963 | -.3098 | -.0035 | .3387 |
| 3272 | 6.1244 | .6552 | -.2729 | .0345 | .6198 | .0417 | .0719 | .6556 | -.2913 | .0341 | .3387 |
| 3273 | 8.2304 | .8245 | -.2337 | .0737 | .7768 | .0805 | .1113 | .8248 | -.2509 | .0735 | .3387 |
| 3274 | 10.3518 | .9687 | -.1830 | .1088 | .9085 | .1310 | .1466 | .9686 | -.1984 | .1088 | .3387 |
| 3275 | 12.5220 | 1.0940 | -.1251 | .1526 | 1.0201 | .1921 | .1910 | 1.0927 | -.1349 | .1533 | .3387 |
| 3276 | 14.6756 | 1.2151 | -.0476 | .1810 | 1.1270 | .2733 | .2202 | 1.2119 | -.0507 | .1824 | .3387 |
| 3277 | .0442 | .1752 | -.3206 | -.0699 | .1749 | .0084 | -.0310 | .1752 | -.3265 | -.0688 | .3387 |
| 3278 | .0331 | .1640 | .0303 | -.0389 | .1640 | -.0028 | -.0389 | .1640 | .0225 | -.0389 | .3387 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 197

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3281 | .400 | 10306 | .11 | -.00 | 92091 | .3203 | .0783 | -.1264 | .0006 | .0006 | .0016 |
| 3282 | .400 | 10303 | -1.85 | -.00 | 92104 | .1560 | .0927 | -.1505 | -.0000 | .0006 | .0015 |
| 3283 | .401 | 10346 | .13 | -.00 | 92061 | .3215 | .0777 | -.1259 | .0006 | .0006 | .0021 |
| 3284 | .400 | 10328 | 2.11 | -.00 | 92071 | .4993 | .0601 | -.1068 | -.0021 | .0005 | .0025 |
| 3285 | .400 | 10318 | 4.14 | -.00 | 92081 | .6552 | .0360 | -.0763 | -.0020 | -.0004 | .0052 |
| 3286 | .401 | 10368 | 6.20 | -.00 | 92044 | .7858 | .0095 | -.0386 | -.0007 | .0001 | .0022 |
| 3287 | .401 | 10346 | 8.28 | -.00 | 92101 | .9048 | -.0189 | .0858 | -.0012 | -.0001 | .0027 |
| 3288 | .401 | 10365 | 10.42 | -.00 | 92088 | 1.0316 | -.0503 | .0515 | -.0013 | -.0003 | .0029 |
| 3289 | .400 | 10331 | 12.58 | -.00 | 92071 | 1.1535 | -.0832 | .1069 | -.0027 | -.0006 | .0032 |
| 3290 | .401 | 10350 | 14.75 | -.00 | 92101 | 1.2723 | -.1136 | .1642 | -.0048 | -.0009 | .0043 |
| 3291 | .401 | 10368 | .11 | -.00 | 92061 | .3206 | .0746 | -.1260 | .0003 | .0006 | .0022 |

TEST 995 RUN 197

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3281 | .1053 | 0.0000 | .8623 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0229 | .0079 |
| 3282 | -1.8519 | 0.0000 | .8647 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0225 | .0080 |
| 3283 | .1317 | 0.0000 | .8629 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0228 | .0079 |
| 3284 | 2.1123 | 0.0000 | .8608 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0233 | .0077 |
| 3285 | 4.1350 | 0.0000 | .8584 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0235 | .0076 |
| 3286 | 6.1976 | 0.0000 | .8581 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0233 | .0073 |
| 3287 | 8.2845 | 0.0000 | .8624 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0226 | .0070 |
| 3288 | 10.4162 | 0.0000 | .8640 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0222 | .0070 |
| 3289 | 12.5816 | 0.0000 | .8635 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0221 | .0071 |
| 3290 | 14.7482 | 0.0000 | .8599 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0225 | .0075 |
| 3291 | .1062 | 0.0000 | .8578 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0235 | .0078 |

TEST 995 RUN 197

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3281 | .1053 | .3202 | .0789 | -.1264 | .3202 | .0481 | -.1264 | .3202 | .0710 | -.1264 | 1.0000 |
| 3282 | -1.8519 | .1589 | .0876 | -.1505 | .1589 | .0570 | -.1505 | .1589 | .0796 | -.1505 | 1.0000 |
| 3283 | .1317 | .3213 | .0785 | -.1259 | .3213 | .0478 | -.1259 | .3213 | .0706 | -.1259 | 1.0000 |
| 3284 | 2.1123 | .4968 | .0785 | -.1068 | .4968 | .0475 | -.1068 | .4968 | .0708 | -.1068 | 1.0000 |
| 3285 | 4.1350 | .6509 | .0831 | -.0763 | .6509 | .0521 | -.0763 | .6509 | .0756 | -.0763 | 1.0000 |
| 3286 | 6.1976 | .7802 | .0943 | -.0386 | .7802 | .0637 | -.0386 | .7802 | .0870 | -.0386 | 1.0000 |
| 3287 | 8.2845 | .8973 | .1115 | .0058 | .8973 | .0820 | .0058 | .8973 | .1046 | .0058 | 1.0000 |
| 3288 | 10.4162 | 1.0237 | .1370 | .0515 | 1.0237 | .1079 | .0515 | 1.0237 | .1301 | .0515 | 1.0000 |
| 3289 | 12.5816 | 1.1439 | .1701 | .1069 | 1.1439 | .1408 | .1069 | 1.1439 | .1630 | .1069 | 1.0000 |
| 3290 | 14.7482 | 1.2593 | .2141 | .1642 | 1.2593 | .1840 | .1642 | 1.2593 | .2065 | .1642 | 1.0000 |
| 3291 | .1062 | .3205 | .0752 | -.1260 | .3205 | .0439 | -.1260 | .3205 | .0674 | -.1260 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 198

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3292 | .400 | 10312 | .11 | -.00 | 92077 | .3219 | .0748 | -.1263 | .0002 | .0006 | .0027 |
| 3293 | .400 | 10334 | .15 | -.00 | 92067 | .5459 | -.2432 | -.2358 | .0004 | .0019 | -.0003 |
| 3294 | .400 | 10309 | -1.78 | -.00 | 92084 | .3763 | -.2306 | -.2574 | .0002 | .0018 | -.0007 |
| 3295 | .401 | 10337 | .21 | -.00 | 92044 | .5459 | -.2477 | -.2370 | .0004 | .0019 | -.0005 |
| 3296 | .400 | 10303 | 2.19 | -.00 | 92087 | .7186 | -.2700 | -.2174 | -.0007 | .0016 | .0002 |
| 3297 | .400 | 10309 | 4.21 | -.00 | 92118 | .8756 | -.2978 | -.1892 | -.0017 | .0006 | .0012 |
| 3298 | .400 | 10315 | 6.29 | -.00 | 92094 | 1.0157 | -.3276 | -.1500 | -.0008 | .0014 | -.0002 |
| 3299 | .399 | 10263 | 8.38 | -.00 | 92141 | 1.1591 | -.3601 | -.1108 | -.0017 | .0013 | -.0005 |
| 3300 | .401 | 10365 | 10.51 | -.00 | 92030 | 1.3013 | -.3936 | -.0676 | -.0025 | .0011 | -.0008 |
| 3301 | .400 | 10322 | 12.69 | -.00 | 92074 | 1.4345 | -.4308 | -.0164 | -.0056 | .0007 | -.0002 |
| 3302 | .402 | 10405 | 14.85 | -.00 | 91987 | 1.5542 | -.4619 | .0508 | -.0009 | .0015 | -.0029 |
| 3303 | .400 | 10315 | .18 | -.00 | 92070 | .5494 | -.2691 | -.2404 | -.0001 | .0020 | -.0013 |
| 3304 | .401 | 10371 | .11 | -.00 | 92010 | .3222 | .0692 | -.1269 | .0001 | .0005 | .0027 |

TEST 995 RUN 198

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3292 | .1108 | 0.0000 | .8572 | 22.2000 | 0.0000 | 0.0000 | 0.0000 | .0238 | .0078 |
| 3293 | .1541 | 28.2589 | 2.9242 | 19.4813 | .3190 | .3226 | 0.0000 | -.3196 | .0105 |
| 3294 | -1.7833 | 28.3418 | 2.9301 | 19.4372 | .3211 | .3247 | 0.0000 | -.3212 | .0107 |
| 3295 | .2071 | 28.3901 | 2.9396 | 19.3650 | .3214 | .3250 | 0.0000 | -.3220 | .0106 |
| 3296 | 2.1900 | 28.4884 | 2.9466 | 19.3121 | .3242 | .3278 | 0.0000 | -.3241 | .0106 |
| 3297 | 4.2107 | 28.6210 | 2.9592 | 19.2166 | .3269 | .3306 | 0.0000 | -.3255 | .0103 |
| 3298 | 6.2882 | 28.8967 | 2.9726 | 19.1152 | .3310 | .3347 | 0.0000 | -.3263 | .0105 |
| 3299 | 8.3819 | 28.9222 | 2.9824 | 19.0412 | .3337 | .3374 | 0.0000 | -.3282 | .0106 |
| 3300 | 10.5077 | 29.0763 | 2.9959 | 18.9392 | .3336 | .3374 | 0.0000 | -.3248 | .0113 |
| 3301 | 12.6854 | 29.1912 | 3.0066 | 18.8579 | .3371 | .3409 | 0.0000 | -.3255 | .0118 |
| 3302 | 14.8491 | 29.2861 | 3.0148 | 18.7957 | .3363 | .3401 | 0.0000 | -.3210 | .0125 |
| 3303 | .1846 | 29.4523 | 3.0326 | 18.6615 | .3421 | .3459 | 0.0000 | -.3382 | .0109 |
| 3304 | .1113 | 0.0000 | .8564 | 22.2800 | 0.0000 | 0.0000 | 0.0000 | .0237 | .0079 |

TEST 995 RUN 198

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3292 | .1108 | .3218 | .0754 | -.1263 | .3218 | .0438 | -.1263 | .3218 | .0676 | -.1263 | .3387 |
| 3293 | .1541 | .5465 | -.2418 | -.2358 | .5457 | .0667 | -.1998 | .5466 | -.2682 | -.2376 | .3387 |
| 3294 | -1.7833 | .3690 | -.2422 | -.2574 | .3790 | .0681 | -.2211 | .3685 | -.2667 | -.2589 | .3387 |
| 3295 | .2071 | .5468 | -.2457 | -.2370 | .5456 | .0651 | -.2007 | .5469 | -.2698 | -.2385 | .3387 |
| 3296 | 2.1900 | .7284 | -.2423 | -.2174 | .7160 | .0711 | -.1808 | .7288 | -.2636 | -.2186 | .3387 |
| 3297 | 4.2107 | .8951 | -.2327 | -.1892 | .8710 | .0830 | -.1523 | .8956 | -.2510 | -.1901 | .3387 |
| 3298 | 6.2882 | 1.0455 | -.2144 | -.1500 | 1.0093 | .1041 | -.1126 | 1.0459 | -.2287 | -.1504 | .3387 |
| 3299 | 8.3819 | 1.1992 | -.1873 | -.1108 | 1.1506 | .1322 | -.0732 | 1.1994 | -.1991 | -.1110 | .3387 |
| 3300 | 10.5077 | 1.3513 | -.1497 | -.0676 | 1.2905 | .1671 | -.0299 | 1.3515 | -.1622 | -.0677 | .3387 |
| 3301 | 12.6854 | 1.4941 | -.1053 | -.0164 | 1.4200 | .2117 | .0217 | 1.4936 | -.1150 | -.0161 | .3387 |
| 3302 | 14.8491 | 1.6206 | -.0482 | .0500 | 1.5345 | .2644 | .0879 | 1.6203 | -.0593 | .0501 | .3387 |
| 3303 | .1846 | .5502 | -.2673 | -.2404 | .5491 | .0638 | -.2018 | .5502 | -.2711 | -.2396 | .3387 |
| 3304 | .1113 | .3220 | .0698 | -.1269 | .3220 | .0382 | -.1269 | .3220 | .0619 | -.1269 | .3387 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 199

| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3316 | .165 | 1919 | .00 | -.00 | 100921 | .1674 | .0452 | -.0316 | -.0016 | .0006 | -.0052 |
| 3317 | .165 | 1912 | -1.88 | -.00 | 100921 | .0181 | .0483 | -.1064 | -.0019 | -.0003 | -.0016 |
| 3318 | .165 | 1922 | .04 | -.00 | 100910 | .1694 | .0484 | -.0304 | -.0012 | .0007 | -.0064 |
| 3319 | .165 | 1919 | 1.94 | -.00 | 100914 | .3060 | .0439 | .0470 | -.0015 | .0007 | -.0031 |
| 3320 | .165 | 1932 | 3.89 | -.00 | 100900 | .4584 | .0367 | .1302 | -.0018 | .0007 | -.0020 |
| 3321 | .164 | 1909 | 5.88 | -.00 | 100924 | .6169 | .0254 | .2185 | -.0013 | .0003 | -.0001 |
| 3322 | .165 | 1929 | 7.93 | -.00 | 100904 | .7724 | .0123 | .3024 | -.0006 | -.0003 | .0022 |
| 3323 | .164 | 1906 | 10.01 | -.00 | 100927 | .9441 | .0025 | .3843 | -.0015 | -.0001 | -.0012 |
| 3324 | .164 | 1909 | 12.10 | -.00 | 100924 | 1.1147 | -.0073 | .4728 | -.0008 | .0003 | .0031 |
| 3325 | .165 | 1916 | 14.20 | -.00 | 100914 | 1.2925 | -.0154 | .5638 | -.0010 | .0005 | -.0003 |
| 3326 | .164 | 1909 | 16.23 | -.00 | 100917 | 1.4465 | -.0258 | .6401 | -.0003 | .0006 | -.0018 |
| 3327 | .164 | 1906 | 18.20 | -.00 | 100920 | 1.5989 | -.0316 | .7199 | -.0007 | .0003 | -.0004 |
| 3328 | .165 | 1912 | 20.20 | -.00 | 100914 | 1.7428 | -.0397 | .8072 | .0001 | .0007 | -.0025 |
| 3329 | .162 | 1863 | 21.89 | -.00 | 100964 | 1.8686 | -.0473 | .8835 | .0004 | .0011 | -.0004 |
| 3330 | .164 | 1889 | -.00 | .00 | 100937 | .1676 | .0492 | -.0306 | -.0006 | .0007 | -.0092 |

TEST 995 RUN 199

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3316 | .0000 | 0.0000 | .9790 | 4.4623 | 0.0000 | 0.0000 | 0.0000 | .0211 | .0076 |
| 3317 | -1.8825 | 0.0000 | .9808 | 4.4654 | 0.0000 | 0.0000 | 0.0000 | .0194 | .0077 |
| 3318 | .0396 | 0.0000 | .9817 | 4.4671 | 0.0000 | 0.0000 | 0.0000 | .0184 | .0076 |
| 3319 | 1.9363 | 0.0000 | .9840 | 4.4712 | 0.0000 | 0.0000 | 0.0000 | .0161 | .0076 |
| 3320 | 3.8932 | 0.0000 | .9849 | 4.4728 | 0.0000 | 0.0000 | 0.0000 | .0151 | .0075 |
| 3321 | 5.8763 | 0.0000 | .9865 | 4.4757 | 0.0000 | 0.0000 | 0.0000 | .0136 | .0075 |
| 3322 | 7.9306 | 0.0000 | .9873 | 4.4772 | 0.0000 | 0.0000 | 0.0000 | .0126 | .0075 |
| 3323 | 10.0120 | 0.0000 | .9885 | 4.4793 | 0.0000 | 0.0000 | 0.0000 | .0115 | .0076 |
| 3324 | 12.1005 | 0.0000 | .9884 | 4.4791 | 0.0000 | 0.0000 | 0.0000 | .0115 | .0077 |
| 3325 | 14.1974 | 0.0000 | .9888 | 4.4799 | 0.0000 | 0.0000 | 0.0000 | .0109 | .0080 |
| 3326 | 16.2298 | 0.0000 | .9900 | 4.4819 | 0.0000 | 0.0000 | 0.0000 | .0098 | .0081 |
| 3327 | 18.2010 | 0.0000 | .9913 | 4.4843 | 0.0000 | 0.0000 | 0.0000 | .0084 | .0081 |
| 3328 | 20.2023 | 0.0000 | .9903 | 4.4826 | 0.0000 | 0.0000 | 0.0000 | .0092 | .0081 |
| 3329 | 21.8917 | 0.0000 | .9903 | 4.4826 | 0.0000 | 0.0000 | 0.0000 | .0093 | .0082 |
| 3330 | -.0001 | 0.0000 | .9930 | 4.4874 | 0.0000 | 0.0000 | 0.0000 | .0072 | .0077 |

TEST 995 RUN 199

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3316 | .0000 | .1674 | .0452 | -.0316 | .1674 | .0166 | -.0316 | .1674 | .0377 | -.0316 | 1.0000 |
| 3317 | -1.8825 | .0197 | .0476 | -.1064 | .0197 | .0285 | -.1064 | .0197 | .0400 | -.1064 | 1.0000 |
| 3318 | .0396 | .1694 | .0485 | -.0304 | .1694 | .0224 | -.0304 | .1694 | .0489 | -.0304 | 1.0000 |
| 3319 | 1.9363 | .3044 | .0542 | .0470 | .3044 | .0305 | .0470 | .3044 | .0466 | .0470 | 1.0000 |
| 3320 | 3.8932 | .4549 | .0678 | .1302 | .4549 | .0452 | .1302 | .4549 | .0602 | .1302 | 1.0000 |
| 3321 | 5.8763 | .6110 | .0884 | .2185 | .6110 | .0673 | .2185 | .6110 | .0809 | .2185 | 1.0000 |
| 3322 | 7.9306 | .7633 | .1187 | .3024 | .7633 | .0986 | .3024 | .7633 | .1112 | .3024 | 1.0000 |
| 3323 | 10.0120 | .9293 | .1666 | .3843 | .9293 | .1475 | .3843 | .9293 | .1591 | .3843 | 1.0000 |
| 3324 | 12.1005 | 1.0915 | .2265 | .4728 | 1.0915 | .2073 | .4728 | 1.0915 | .2188 | .4728 | 1.0000 |
| 3325 | 14.1974 | 1.2568 | .3021 | .5638 | 1.2568 | .2831 | .5638 | 1.2568 | .2941 | .5638 | 1.0000 |
| 3326 | 16.2298 | 1.3961 | .3795 | .6401 | 1.3961 | .3617 | .6401 | 1.3961 | .3714 | .6401 | 1.0000 |
| 3327 | 18.2010 | 1.5288 | .4694 | .7199 | 1.5288 | .4528 | .7199 | 1.5288 | .4613 | .7199 | 1.0000 |
| 3328 | 20.2023 | 1.6493 | .5646 | .8072 | 1.6493 | .5473 | .8072 | 1.6493 | .5565 | .8072 | 1.0000 |
| 3329 | 21.8917 | 1.7514 | .6528 | .8835 | 1.7514 | .6353 | .8835 | 1.7514 | .6446 | .8835 | 1.0000 |
| 3330 | -.0001 | .1676 | .0492 | -.0306 | .1676 | .0343 | -.0306 | .1676 | .0415 | -.0306 | 1.0000 |

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 995 RUN 200

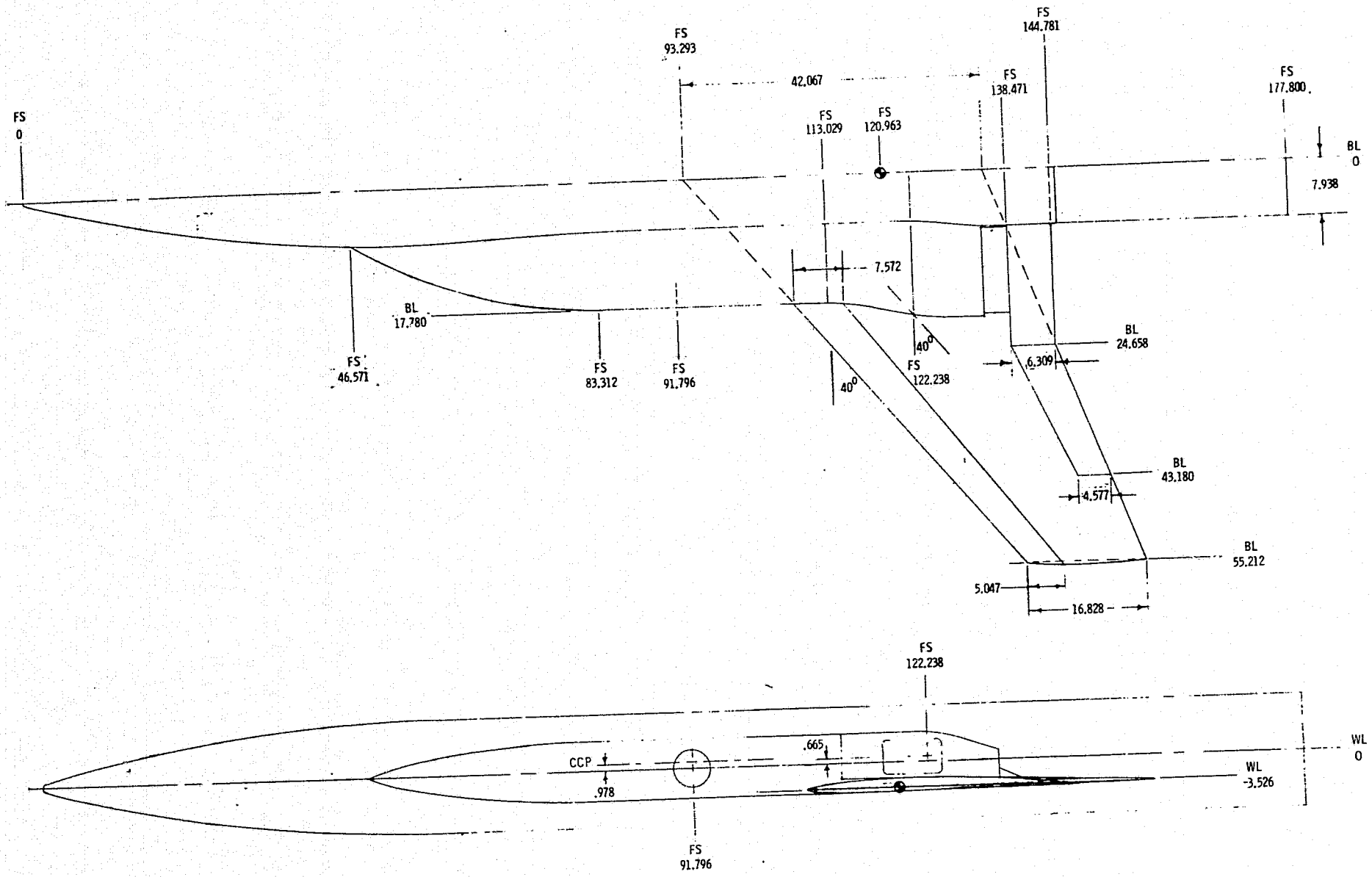
| POINT | MACH | Q N/(MXM) | ALPHA DEG | BETA DEG | P,INF N/(MXM) | CNF | CAF | CPM | CRM,B | CYM,B | CSF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3331 | .164 | 1902 | -.01 | .00 | 100931 | .1582 | .0533 | -.0286 | -.0007 | .0007 | -.0114 |
| 3332 | .166 | 1939 | .00 | -.00 | 100887 | .4191 | -1.5357 | -.1927 | -.0014 | .0044 | .0019 |
| 3333 | .166 | 1939 | -1.90 | -.00 | 100887 | .2529 | -1.5385 | -.2620 | -.0023 | .0039 | -.0011 |
| 3334 | .166 | 1942 | .05 | -.00 | 100880 | .4006 | -1.4872 | -.1770 | -.0015 | .0038 | .0072 |
| 3335 | .164 | 1909 | 1.95 | -.00 | 100917 | .5724 | -1.5159 | -.1108 | -.0012 | .0046 | .0035 |
| 3336 | .164 | 1909 | 3.91 | -.00 | 100914 | .7498 | -1.5305 | -.0297 | -.0012 | .0044 | .0034 |
| 3337 | .165 | 1922 | 5.92 | -.00 | 100904 | .9236 | -1.5412 | .0542 | -.0012 | .0044 | .0057 |
| 3338 | .165 | 1919 | 7.94 | -.00 | 100907 | 1.1018 | -1.5671 | .1332 | -.0002 | .0036 | .0066 |
| 3339 | .164 | 1892 | 10.02 | -.00 | 100934 | 1.3181 | -1.6689 | .1974 | -.0010 | .0038 | .0048 |
| 3340 | .165 | 1926 | 12.14 | -.00 | 100907 | 1.5178 | -1.6666 | .2773 | -.0010 | .0036 | .0011 |
| 3341 | .166 | 1939 | 14.24 | -.00 | 100894 | 1.7257 | -1.6144 | .3714 | .0001 | .0038 | .0026 |
| 3342 | .165 | 1932 | 16.23 | -.00 | 100900 | 1.9392 | -1.6441 | .4357 | .0022 | .0031 | -.0043 |
| 3343 | .166 | 1935 | 18.25 | -.00 | 100900 | 2.1721 | -1.6698 | .4939 | .0024 | .0040 | -.0017 |
| 3344 | .166 | 1935 | 20.26 | -.00 | 100904 | 2.4015 | -1.6976 | .5678 | .0029 | .0041 | -.0015 |
| 3345 | .164 | 1889 | 21.98 | -.00 | 100951 | 2.6091 | -1.7701 | .6299 | .0033 | .0045 | .0019 |
| 3346 | .166 | 1935 | .04 | -.00 | 100894 | .4298 | -1.6398 | -.2059 | -.0020 | .0045 | -.0053 |
| 3347 | .165 | 1912 | -.01 | .00 | 100921 | .1605 | -.0044 | -.0372 | -.0006 | .0011 | -.0100 |

TEST 995 RUN 200

| POINT | ALPHA DEG | WT FLOW N/SEC | NPR | THETA,T DEG | CT | CMU,N | CMU,J | CD,N | CD,C |
|---|---|---|---|---|---|---|---|---|---|
| 3331 | -.0052 | .0550 | .9946 | 4.4983 | 0.0000 | 0.0000 | 0.0000 | .0055 | .0075 |
| 3332 | .0023 | 28.7269 | 2.8770 | 7.8786 | 1.7219 | 1.4946 | .2466 | -1.8724 | .0383 |
| 3333 | -1.9009 | 28.7581 | 2.8854 | 7.8937 | 1.7237 | 1.4963 | .2468 | -1.8797 | .0383 |
| 3334 | .0503 | 28.1896 | 2.8122 | 7.7620 | 1.6662 | 1.4462 | .2387 | -1.8046 | .0371 |
| 3335 | 1.9452 | 28.0233 | 2.8092 | 7.7566 | 1.6845 | 1.4622 | .2412 | -1.8324 | .0379 |
| 3336 | 3.9119 | 28.1312 | 2.8200 | 7.7760 | 1.6947 | 1.4711 | .2426 | -1.8400 | .0387 |
| 3337 | 5.9167 | 28.5161 | 2.8292 | 7.7926 | 1.7085 | 1.4829 | .2447 | -1.8309 | .0393 |
| 3338 | 7.9371 | 28.9284 | 2.8378 | 7.8080 | 1.7403 | 1.5107 | .2492 | -1.8348 | .0397 |
| 3339 | 10.0156 | 29.1939 | 2.9217 | 7.9590 | 1.8047 | 1.5666 | .2584 | -1.9348 | .0418 |
| 3340 | 12.1446 | 29.3478 | 2.9345 | 7.9821 | 1.7875 | 1.5517 | .2568 | -1.8999 | .0414 |
| 3341 | 14.2406 | 28.6603 | 2.8692 | 7.8645 | 1.7194 | 1.4925 | .2463 | -1.8074 | .0397 |
| 3342 | 16.2344 | 28.7878 | 2.8885 | 7.8993 | 1.7399 | 1.5102 | .2492 | -1.8152 | .0398 |
| 3343 | 18.2508 | 28.8916 | 2.9040 | 7.9273 | 1.7491 | 1.5184 | .2504 | -1.8071 | .0396 |
| 3344 | 20.2623 | 29.0199 | 2.9182 | 7.9528 | 1.7620 | 1.5296 | .2522 | -1.7984 | .0399 |
| 3345 | 21.9791 | 29.2403 | 2.9392 | 7.9905 | 1.8259 | 1.5850 | .2613 | -1.8420 | .0415 |
| 3346 | .0377 | 29.5332 | 2.9705 | 8.0468 | 1.8104 | 1.5716 | .2591 | -1.9691 | .0394 |
| 3347 | -.0028 | 0.0000 | 1.0062 | 4.5147 | 0.0000 | 0.0000 | 0.0000 | -.0083 | .0073 |

TEST 995 RUN 200

| POINT | ALPHA DEG | CL | CD | CM | CL,EQ | CD,EQ | CM,EQ | CL,NOM | CD,NOM | CM,NOM | CMU,NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3331 | -.0052 | .1582 | .0533 | -.0286 | .1582 | .0403 | -.0286 | .1582 | .0458 | -.0286 | 1.0000 |
| 3332 | .0023 | .4192 | -1.5357 | -.1927 | .4191 | .1479 | -.0015 | .4192 | -1.6321 | -.1993 | 1.8000 |
| 3333 | -1.9009 | .2018 | -1.5460 | -.2620 | .2589 | .1384 | -.0676 | .1999 | -1.6406 | -.2684 | 1.8000 |
| 3334 | .0503 | .4019 | -1.4869 | -.1770 | .4004 | .1422 | .0109 | .4020 | -1.6378 | -.1899 | 1.8000 |
| 3335 | 1.9452 | .6235 | -1.4956 | -.1108 | .5664 | .1501 | .0792 | .6268 | -1.6289 | -.1216 | 1.8000 |
| 3336 | 3.9119 | .8525 | -1.4758 | -.0297 | .7369 | .1762 | .1615 | .8583 | -1.5997 | -.0393 | 1.8000 |
| 3337 | 5.9167 | 1.0776 | -1.4378 | .0542 | .9015 | .2223 | .2469 | 1.0858 | -1.5482 | .0461 | 1.8000 |
| 3338 | 7.9371 | 1.3077 | -1.3999 | .1332 | 1.0674 | .2841 | .3295 | 1.3131 | -1.4769 | .1287 | 1.8000 |
| 3339 | 10.0156 | 1.5883 | -1.4142 | .1974 | 1.2744 | .3212 | .4010 | 1.5840 | -1.4316 | .2002 | 1.8000 |
| 3340 | 12.1446 | 1.8345 | -1.3100 | .2773 | 1.4584 | .3962 | .4789 | 1.8329 | -1.3440 | .2781 | 1.8000 |
| 3341 | 14.2406 | 2.0698 | -1.1403 | .3714 | 1.6468 | .4866 | .5654 | 2.0847 | -1.2387 | .3646 | 1.8000 |
| 3342 | 16.2344 | 2.3215 | -1.0364 | .4357 | 1.8358 | .5943 | .6328 | 2.3327 | -1.1147 | .4312 | 1.8000 |
| 3343 | 18.2508 | 2.5858 | -.9055 | .4939 | 2.0380 | .7160 | .6912 | 2.5954 | -.9744 | .4904 | 1.8000 |
| 3344 | 20.2623 | 2.8488 | -.7688 | .5678 | 2.2386 | .8522 | .7666 | 2.8478 | -.8176 | .5658 | 1.8000 |
| 3345 | 21.9791 | 3.0820 | -.6650 | .6299 | 2.3986 | .9857 | .8359 | 3.0643 | -.6639 | .6351 | 1.8000 |
| 3346 | .0377 | .4309 | -1.6396 | -.2059 | .4297 | .1314 | -.0016 | .4309 | -1.6486 | -.2024 | 1.8000 |
| 3347 | -.0028 | .1605 | -.0044 | -.0372 | .1605 | -.0034 | -.0372 | .1605 | -.0117 | -.0372 | 1.0000 |



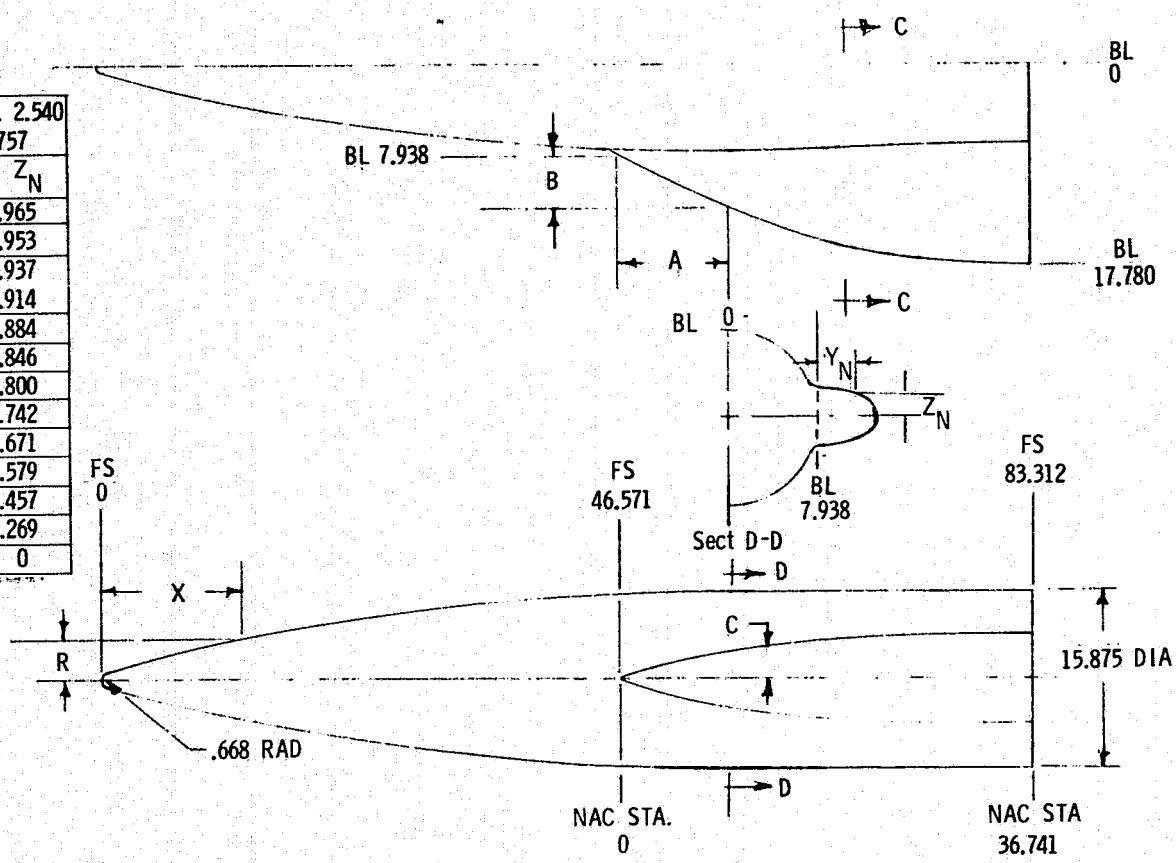

(a) Basic model

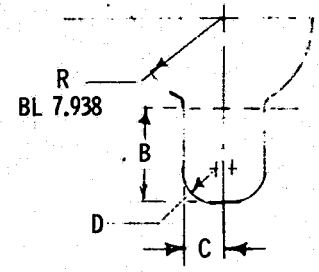
Figure 1.- Drawing of model components. (All dimensions in cm unless noted.)

| Nose Geometry | |
|---|---|
| X | R |
| 0 | 0 |
| .668 | L.E.R. |
| .635 | .691 |
| 3.175 | 1.349 |
| 5.715 | 1.976 |
| 10.795 | 3.137 |
| 15.875 | 4.171 |
| 20.955 | 5.080 |
| 26.035 | 5.865 |
| 31.115 | 6.523 |
| 38.735 | 7.275 |
| 46.355 | 7.744 |
| 55.245 | 7.938 |
| ↓ | ↓ |
| 83.312 | 7.938 |

| NAC. STA. 2.540 BL 7.757 | |
|---|---|
| $Y_N$ | $Z_N$ |
| 0 | .965 |
| .254 | .953 |
| .381 | .937 |
| .508 | .914 |
| .635 | .884 |
| .762 | .846 |
| .889 | .800 |
| 1.016 | .742 |
| 1.143 | .671 |
| 1.270 | .579 |
| 1.400 | .457 |
| 1.524 | .269 |
| 1.588 | 0 |

| Nacelle Geometry | | | |
|---|---|---|---|
| A | B | C | D |
| 0 | 0 | 0 | 0 |
| 1.270 | .716 | .508 | None |
| 2.540 | 1.407 | .965 | |
| 5.080 | 2.743 | 1.613 | |
| 7.620 | 3.922 | 2.134 | |
| 10.160 | 4.978 | 2.515 | |
| 12.700 | 5.954 | 2.858 | |
| 16.510 | 7.209 | 3.302 | |
| 20.320 | 8.221 | 3.683 | 3.683 |
| 25.400 | 9.190 | 3.975 | 2.769 |
| 30.480 | 9.726 | 4.094 | 1.880 |
| 34.201 | 9.843 | ↓ | 1.372 |
| 36.741 | ↓ | 4.094 | 1.270 |




Sect C-C

| NAC. STA. 7.620 | | NAC. STA. 12.700 | | NAC. STA. 16.510 | |
|---|---|---|---|---|---|
| BL 7.920 | | BL 7.938 | | BL 7.938 | |
| $Y_N$ | $Z_N$ | $Y_N$ | $Z_N$ | $Y_N$ | $Z_N$ |
| 0 | 2.134 | 0 | 2.858 | 0 | 3.302 |
| .254 | 2.129 | .508 | 2.847 | 2.858 | ↓ |
| .508 | 2.116 | 1.016 | 2.814 | 3.556 | 3.259 |
| .762 | 2.093 | 1.524 | 2.761 | 4.064 | 3.172 |
| 1.016 | 2.062 | 2.032 | 2.685 | 4.572 | 3.035 |
| 1.270 | 2.019 | 2.540 | 2.568 | 5.080 | 2.840 |
| 1.524 | 1.969 | 3.048 | 2.454 | 5.334 | 2.715 |
| 1.778 | 1.902 | 3.556 | 2.289 | 5.588 | 2.570 |
| 2.032 | 1.826 | 4.064 | 2.085 | 5.842 | 2.403 |
| 2.286 | 1.737 | 4.318 | 1.963 | 6.096 | 2.205 |
| 2.540 | 1.631 | 4.572 | 1.826 | 6.350 | 1.969 |
| 2.794 | 1.504 | 4.826 | 1.669 | 6.604 | 1.679 |
| 3.048 | 1.351 | 5.080 | 1.483 | 6.858 | 1.298 |
| 3.302 | 1.161 | 5.334 | 1.260 | 7.112 | .691 |
| 3.556 | .917 | 5.588 | .973 | 7.209 | 0 |
| 3.810 | .538 | 5.842 | .526 | | |
| 3.937 | 0 | 5.954 | 0 | | |

Forward fuselage geometry

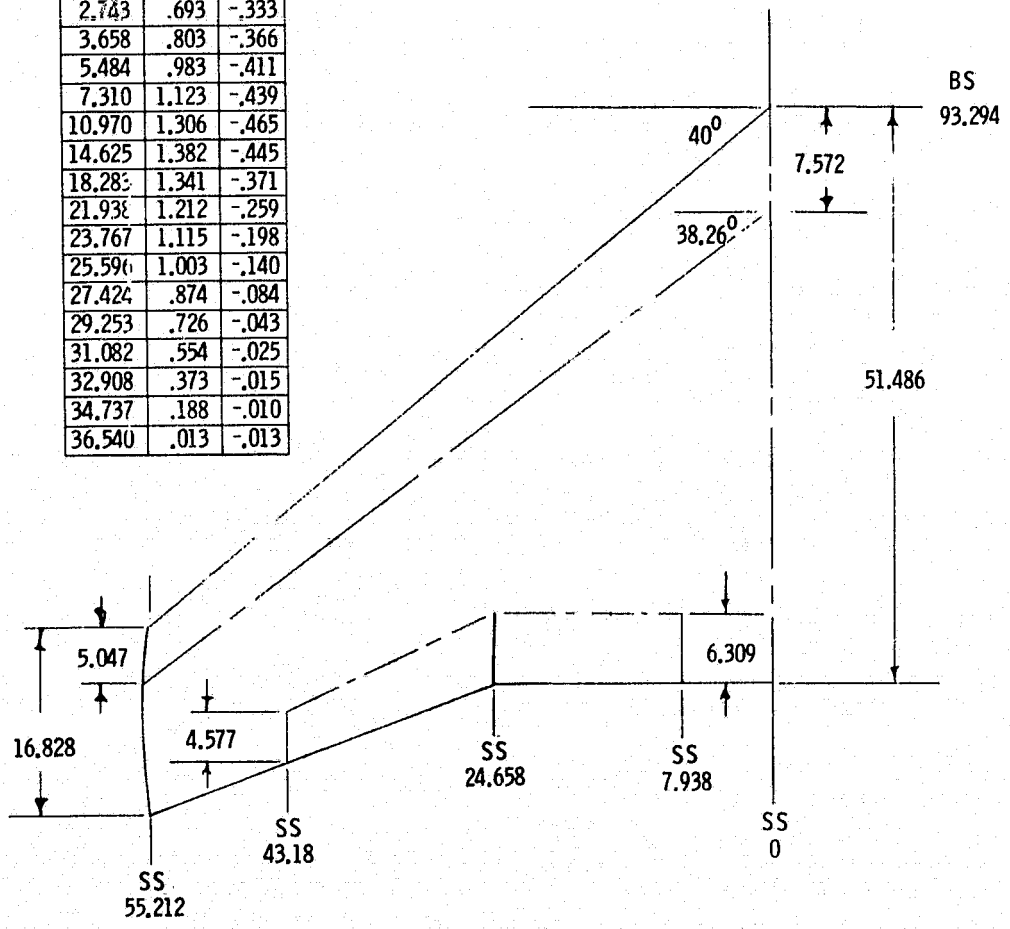
(a) Concluded.

Figure 1.- Continued.

| SS 7.938 | | |
|---|---|---|
| X | $Z_U$ | $Z_L$ |
| 0 | 0 | 0 |
| .043 | .099 | -.071 |
| .089 | .137 | -.099 |
| .135 | .165 | -.119 |
| .178 | .191 | -.135 |
| .224 | .213 | -.147 |
| .335 | .259 | -.175 |
| 1.120 | .478 | -.279 |
| 2.240 | .686 | -.358 |
| 3.360 | .848 | -.409 |
| 4.483 | .986 | -.447 |
| 6.723 | 1.207 | -.503 |
| 8.964 | 1.374 | -.538 |
| 13.447 | 1.598 | -.569 |
| 17.930 | 1.692 | -.546 |
| 22.413 | 1.646 | -.452 |
| 26.894 | 1.483 | -.318 |
| 29.136 | 1.369 | -.241 |
| 31.377 | 1.232 | -.170 |
| 33.619 | 1.072 | -.104 |
| 35.860 | .892 | -.051 |
| 38.100 | .678 | -.030 |
| 40.343 | .457 | -.018 |
| 42.583 | .231 | -.010 |
| 44.823 | .013 | -.013 |

| SS 17.780 | | |
|---|---|---|
| X | | |
| 0 | 0 | 0 |
| .036 | .081 | -.058 |
| .071 | .112 | -.081 |
| .109 | .135 | -.097 |
| .145 | .155 | -.109 |
| .183 | .173 | -.122 |
| .272 | .211 | -.145 |
| .914 | .389 | -.203 |
| 1.829 | .561 | -.292 |
| 2.743 | .693 | -.333 |
| 3.658 | .803 | -.366 |
| 5.484 | .983 | -.411 |
| 7.310 | 1.123 | -.439 |
| 10.970 | 1.306 | -.465 |
| 14.625 | 1.382 | -.445 |
| 18.283 | 1.341 | -.371 |
| 21.938 | 1.212 | -.259 |
| 23.767 | 1.115 | -.198 |
| 25.596 | 1.003 | -.140 |
| 27.424 | .874 | -.084 |
| 29.253 | .726 | -.043 |
| 31.082 | .554 | -.025 |
| 32.908 | .373 | -.015 |
| 34.737 | .188 | -.010 |
| 36.540 | .013 | -.013 |

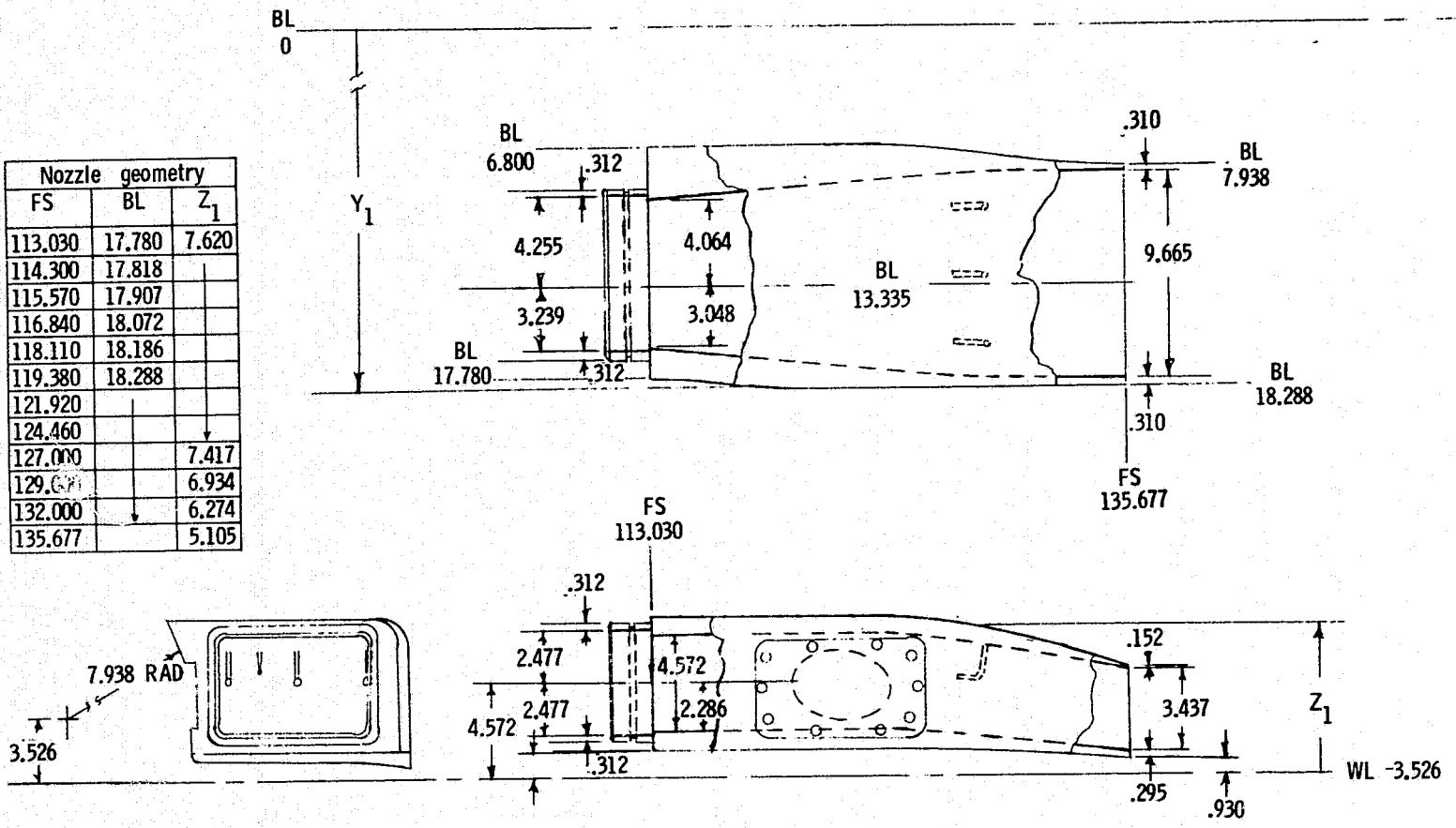
| SS 24.658 | | |
|---|---|---|
| X | | |
| 0 | -.216 | -.216 |
| .030 | -.147 | -.264 |
| .061 | -.122 | -.282 |
| .091 | -.099 | -.297 |
| .122 | -.084 | -.307 |
| .152 | -.069 | -.318 |
| .229 | -.036 | -.335 |
| .770 | +.117 | -.404 |
| 1.539 | .267 | -.450 |
| 2.309 | .384 | -.480 |
| 3.078 | .483 | -.503 |
| 4.618 | .645 | -.528 |
| 6.160 | .772 | -.544 |
| 9.238 | .947 | -.541 |
| 12.316 | 1.034 | -.505 |
| 15.397 | 1.024 | -.419 |
| 18.476 | .932 | -.305 |
| 20.015 | .864 | -.218 |
| 21.557 | .780 | -.180 |
| 23.096 | .683 | -.124 |
| 24.635 | .569 | -.079 |
| 26.175 | .434 | -.053 |
| 27.714 | .292 | -.033 |
| 29.256 | .147 | -.018 |
| 30.795 | .013 | -.013 |




(b) Wing

Figure 1.- Continued.

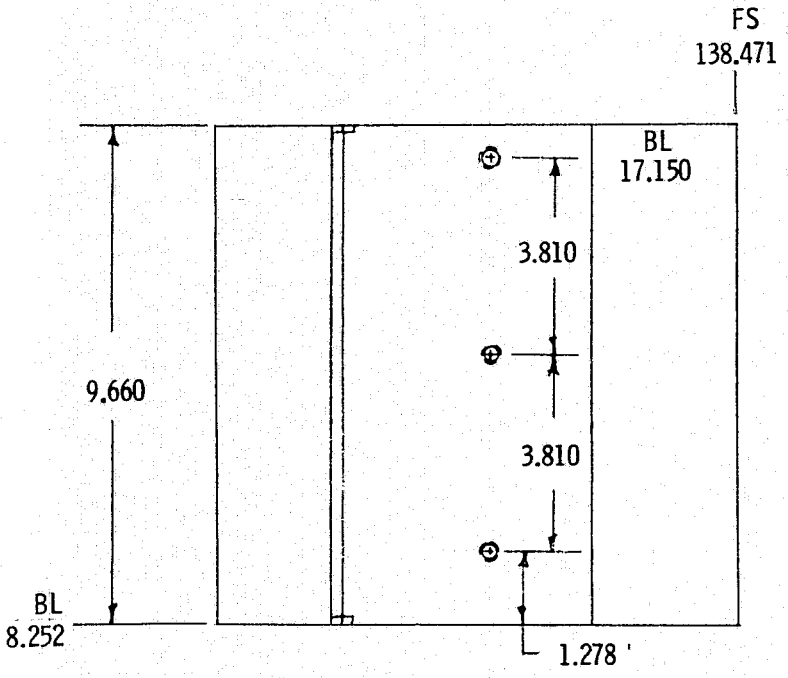
| Nozzle geometry | | |
|---|---|---|
| FS | BL | $Z_1$ |
| 113.030 | 17.780 | 7.620 |
| 114.300 | 17.818 | |
| 115.570 | 17.907 | |
| 116.840 | 18.072 | |
| 118.110 | 18.186 | |
| 119.380 | 18.288 | |
| 121.920 | | |
| 124.460 | | |
| 127.000 | | 7.417 |
| 129.540 | | 6.934 |
| 132.000 | | 6.274 |
| 135.677 | | 5.105 |



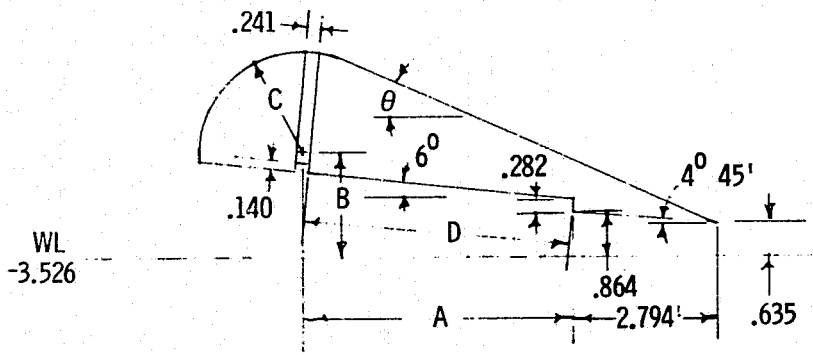

(c) Drawing at AR 4 nozzle

Figure 1.- Continued.

| A | B | C | D | $\theta$ |
|---|---|---|---|---|
| 5.080 | 1.046 | 2.296 | 5.080 | $20^0$ |
| 5.227 | 1.575 | 2.174 | 5.080 | $22^0$ |
| 5.410 | 2.103 | 1.984 | 5.334 | $24^0$ |



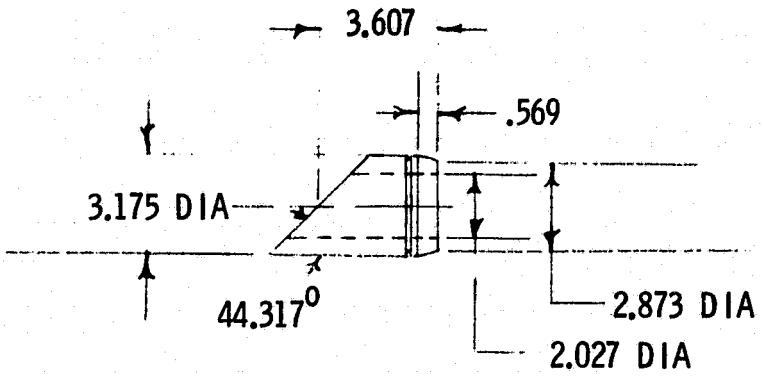

BOTTOM VIEW



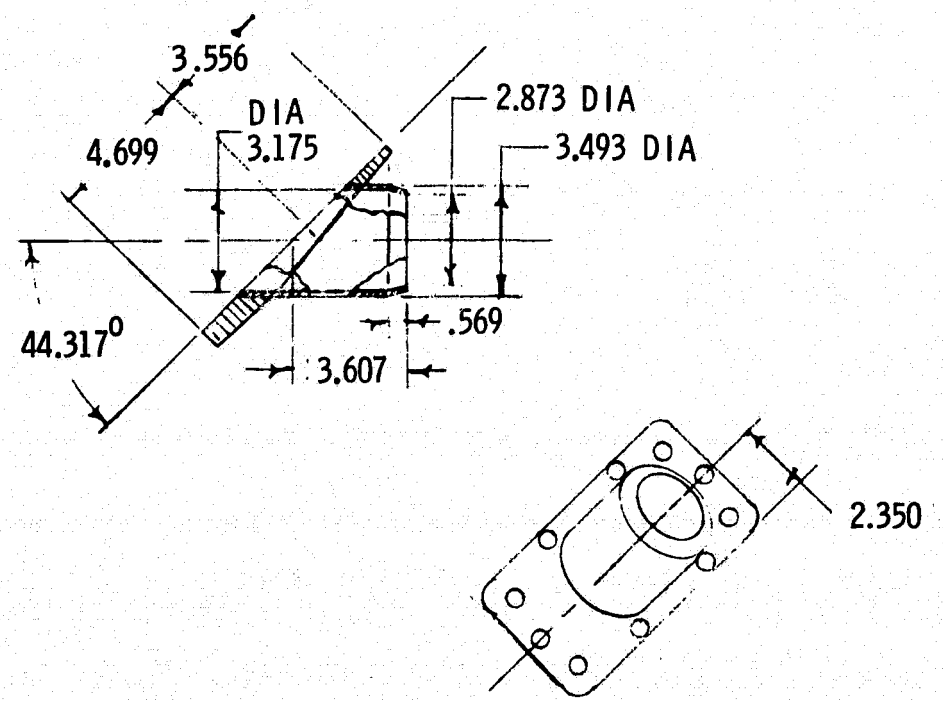

Nozzle throttle plug for AR 4 nozzle

(c) Continued,

Figure 1.- Continued.




Nozzle insert (.5 in.$^2$ exit)

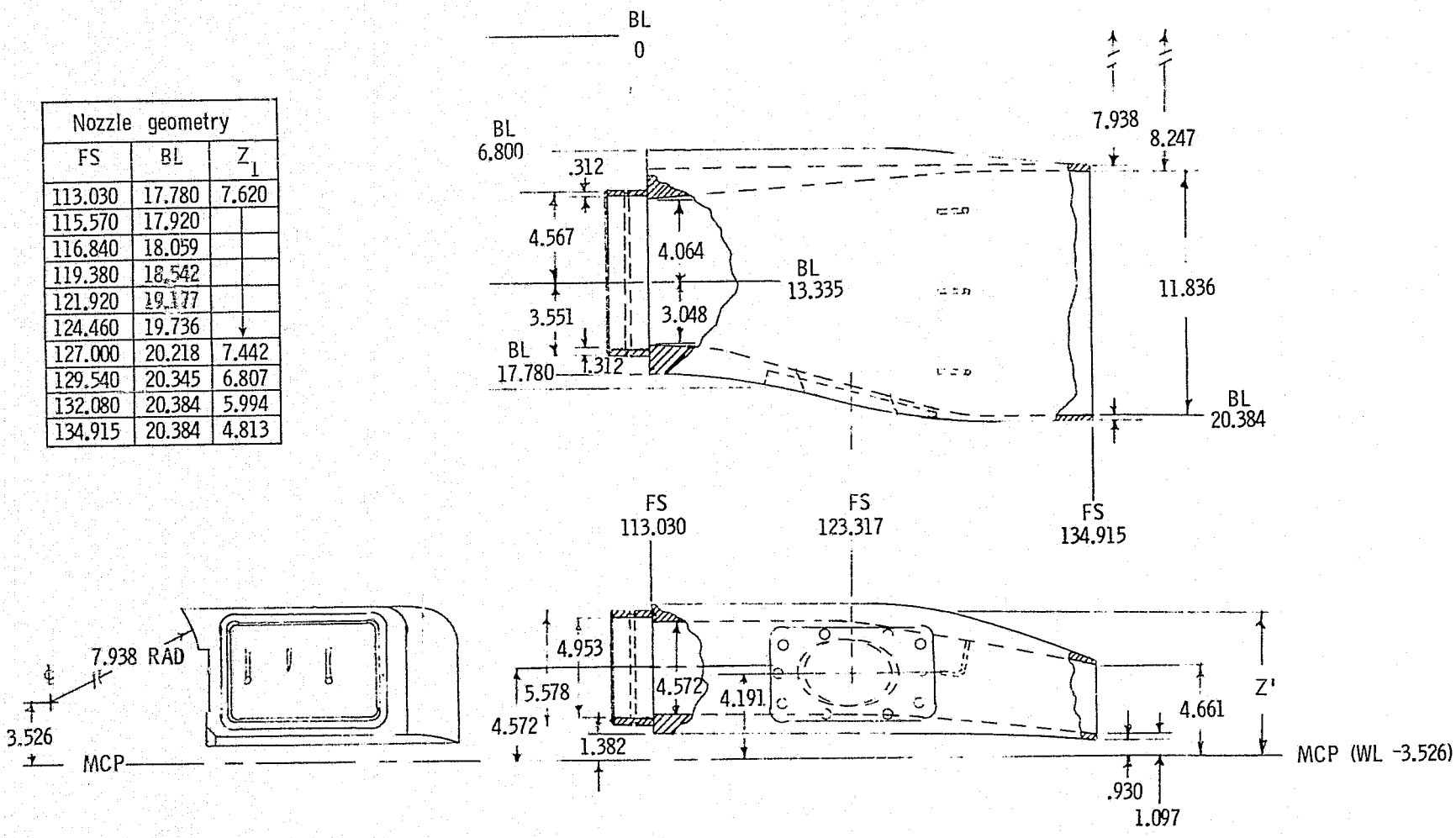



Spanwise nozzle for AR 4 nozzle

(c) Concluded.

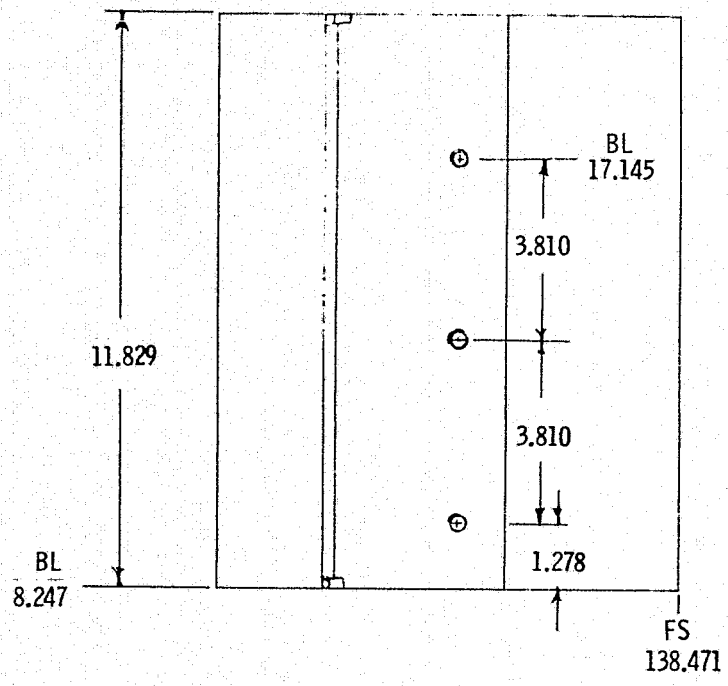
Figure 1.- Continued.

| Nozzle geometry | | |
|---|---|---|
| FS | BL | $Z_1$ |
| 113.030 | 17.780 | 7.620 |
| 115.570 | 17.920 | |
| 116.840 | 18.059 | |
| 119.380 | 18.542 | |
| 121.920 | 19.177 | |
| 124.460 | 19.736 | ↓ |
| 127.000 | 20.218 | 7.442 |
| 129.540 | 20.345 | 6.807 |
| 132.080 | 20.384 | 5.994 |
| 134.915 | 20.384 | 4.813 |

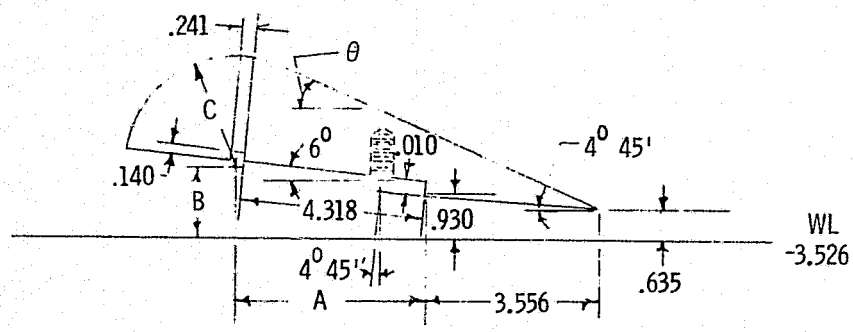



(d) Drawing of AR 6 nozzle

Figure 1.- Continued.




BOTTOM VIEW

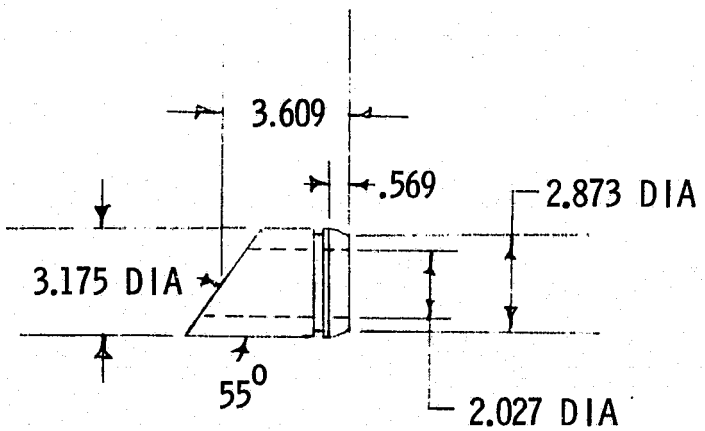


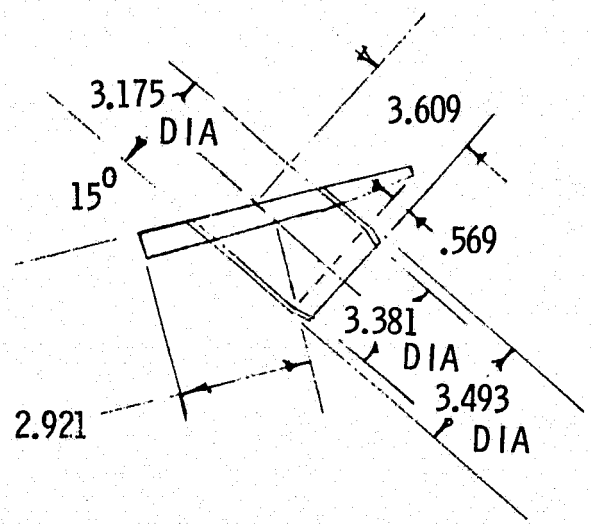

| Nozz. throttle plugs | A | B | C | θ |
|---|---|---|---|---|
| $N_{2a}$ | 4.341 | 1.290 | 2.088 | 20° |
| $N_{2b}$ | 4.341 | 1.560 | ↓ | 22° |
| $N_{2c}$ | 4.282 | 1.844 | ↓ | 24° |

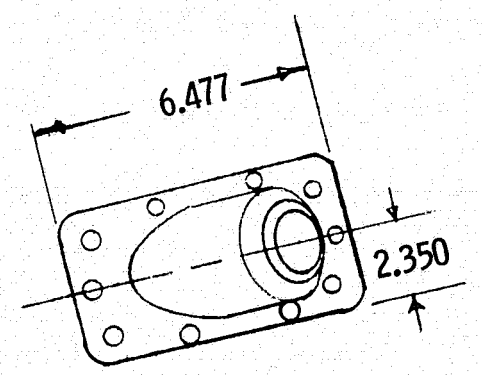
Nozzle throttle plugs for AR 6 nozzle

(d) Continued.

Figure 1.- Continued.



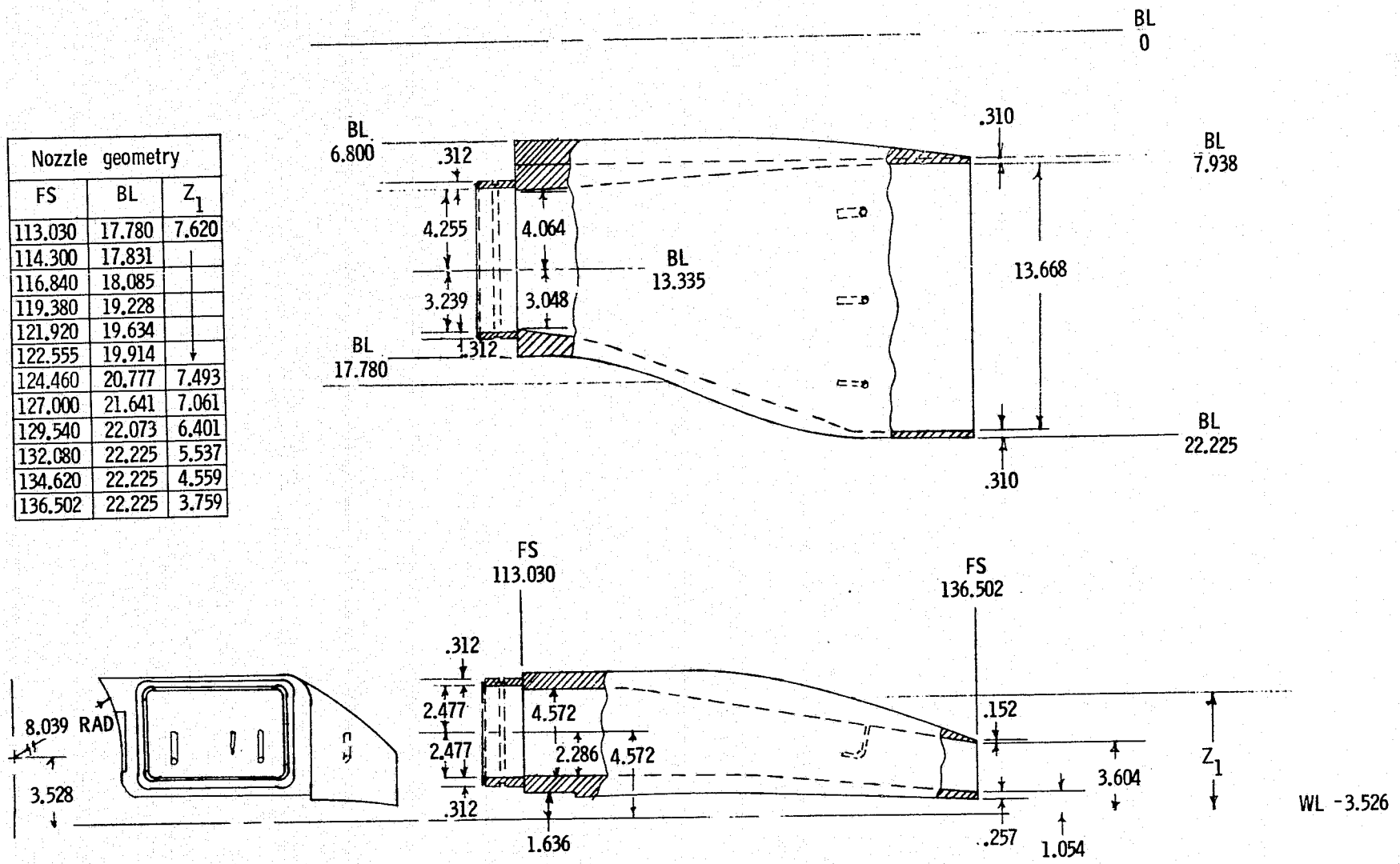




Spanwise nozzle for AR 6 nozzle

(d) Concluded.

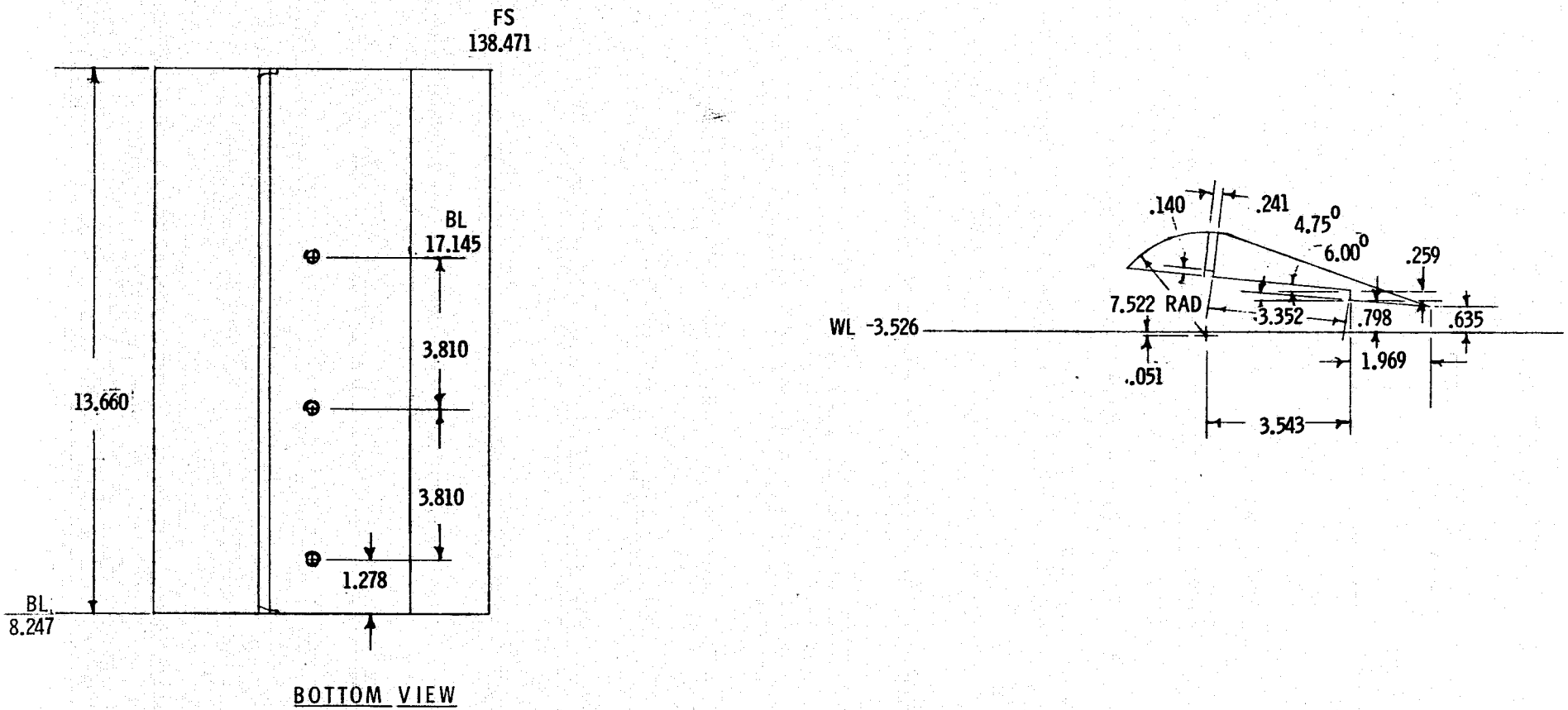
Figure 1.- Continued.

| Nozzle geometry | | |
|---|---|---|
| FS | BL | $Z_1$ |
| 113.030 | 17.780 | 7.620 |
| 114.300 | 17.831 | ↓ |
| 116.840 | 18.085 | ↓ |
| 119.380 | 19.228 | ↓ |
| 121.920 | 19.634 | ↓ |
| 122.555 | 19.914 | ↓ |
| 124.460 | 20.777 | 7.493 |
| 127.000 | 21.641 | 7.061 |
| 129.540 | 22.073 | 6.401 |
| 132.080 | 22.225 | 5.537 |
| 134.620 | 22.225 | 4.559 |
| 136.502 | 22.225 | 3.759 |




(e) Drawing for AR 8 nozzle

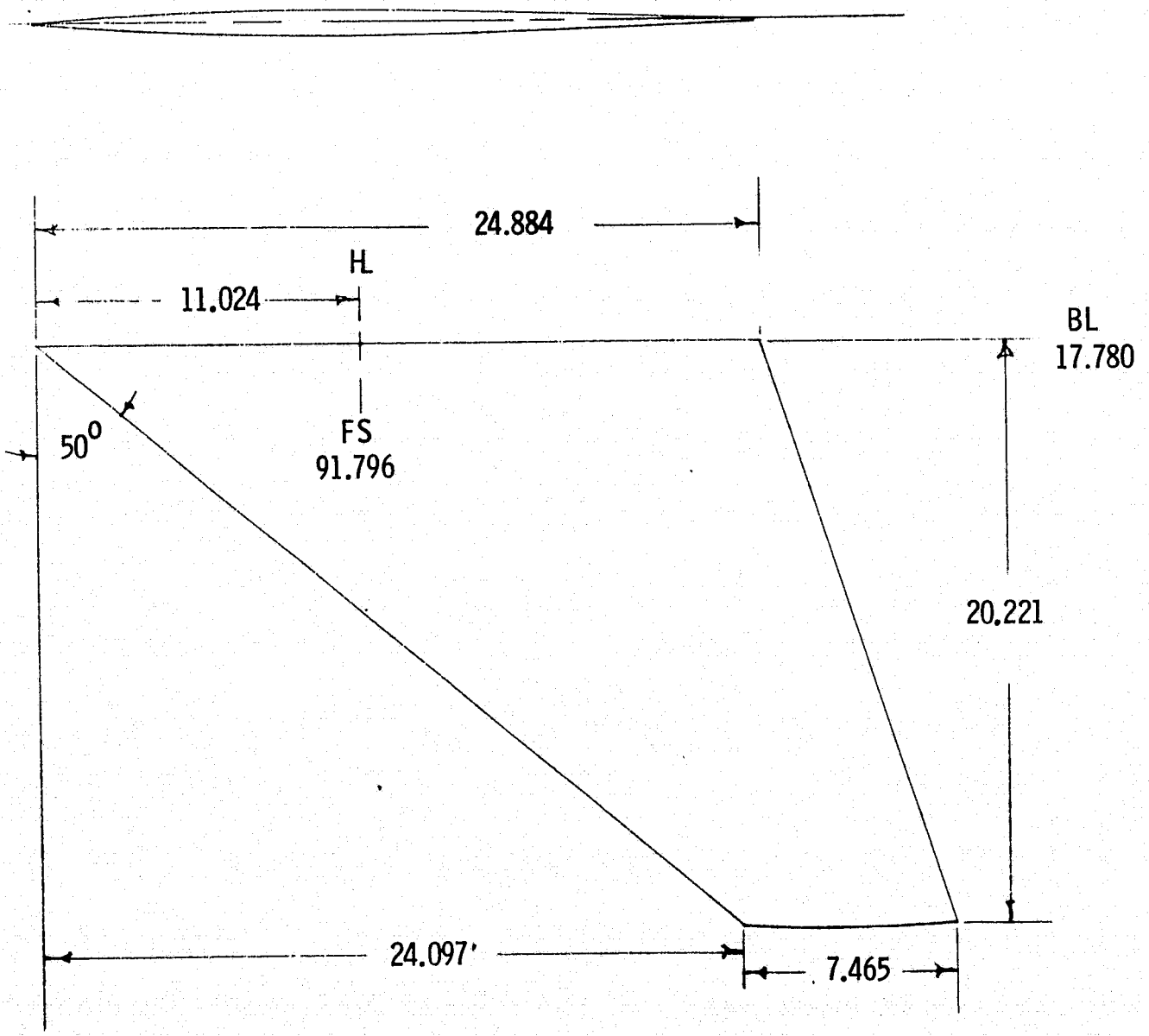
Figure 1.- Continued.




Nozzle throttle plug for AR 8 nozzle

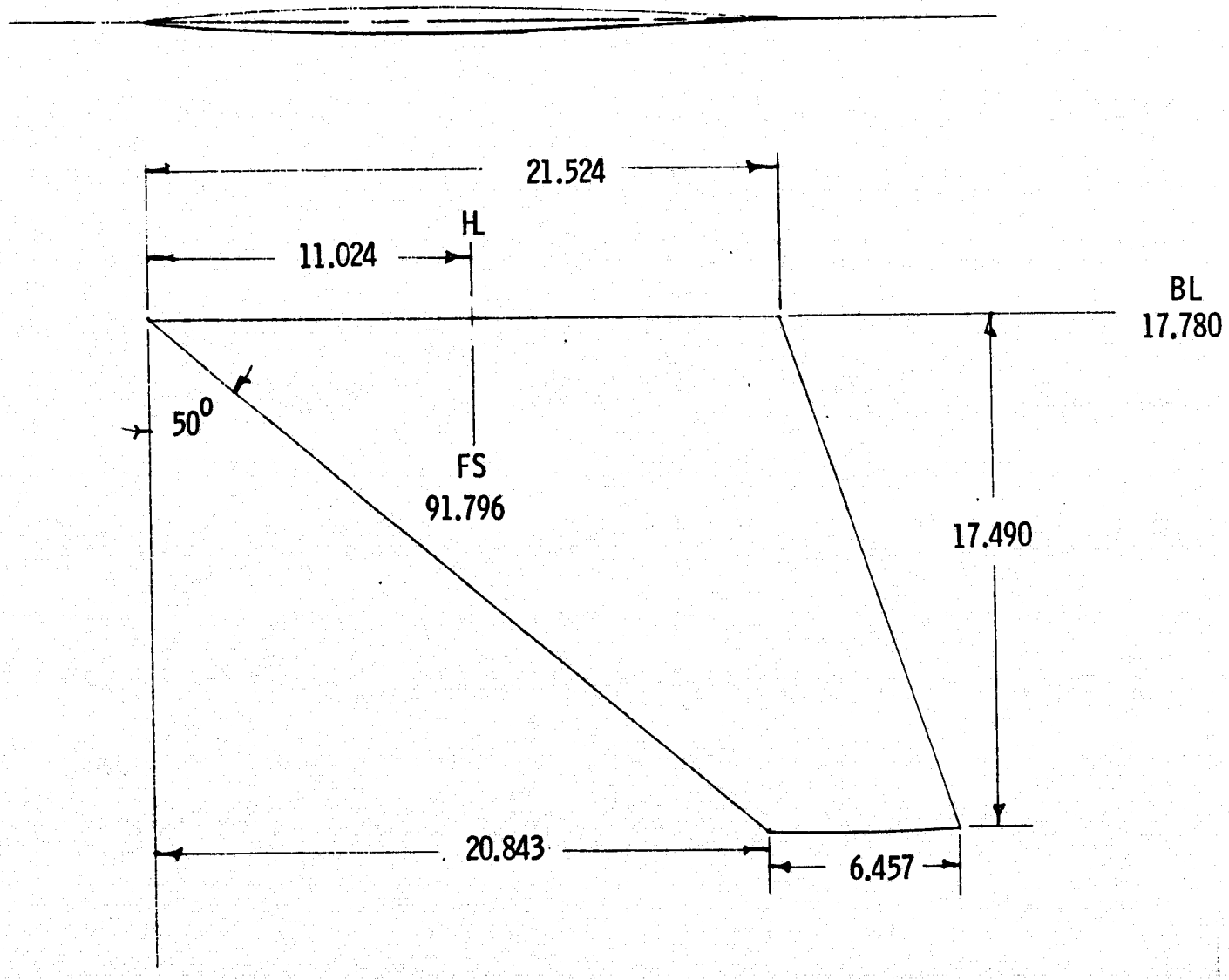
(e) Concluded.

Figure 1.- Continued.




(f) Large canard ($H_2$)

Figure 1.- Continued.

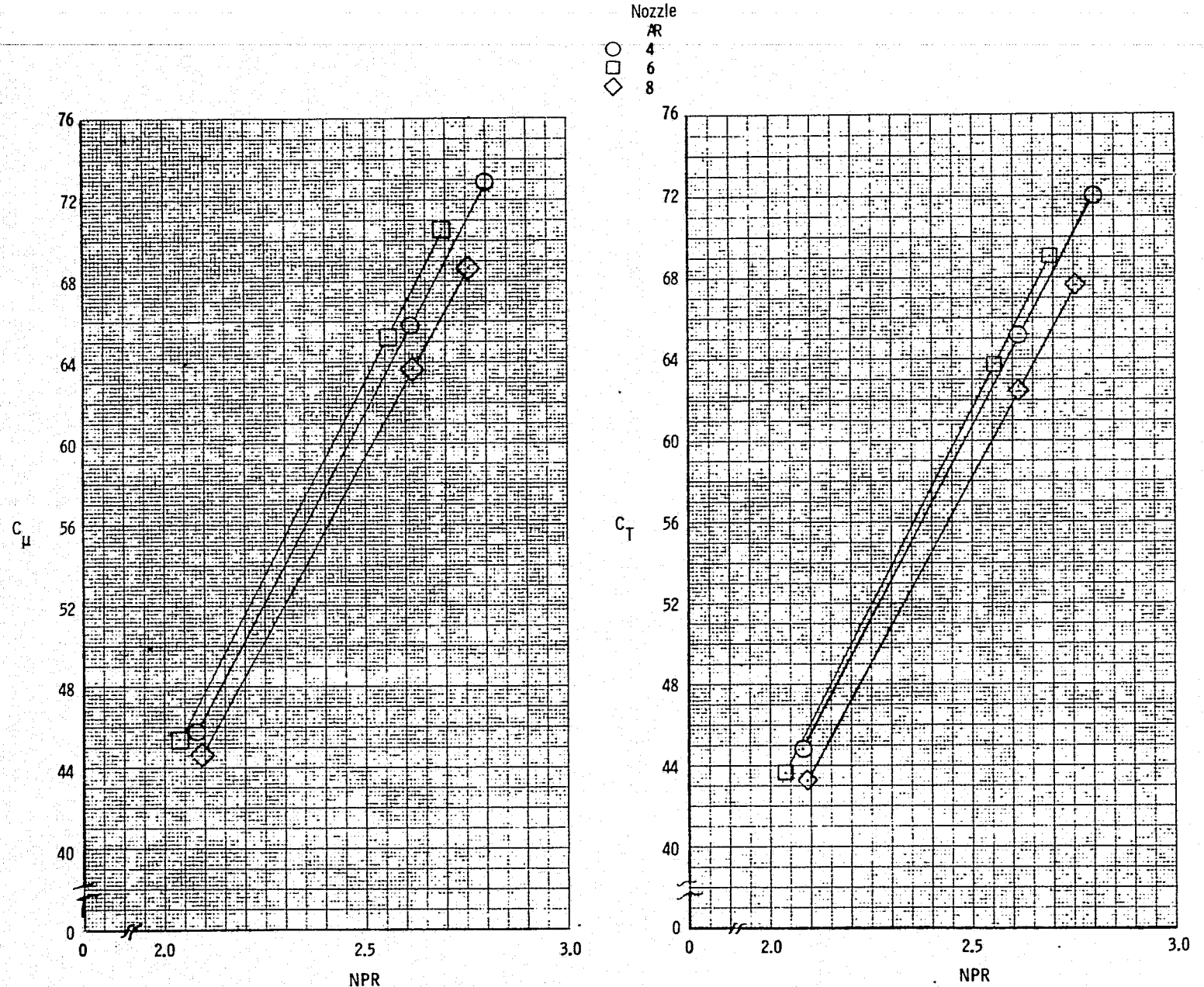



(g) Small canard ($H_1$)

Figure 1.- Concluded.

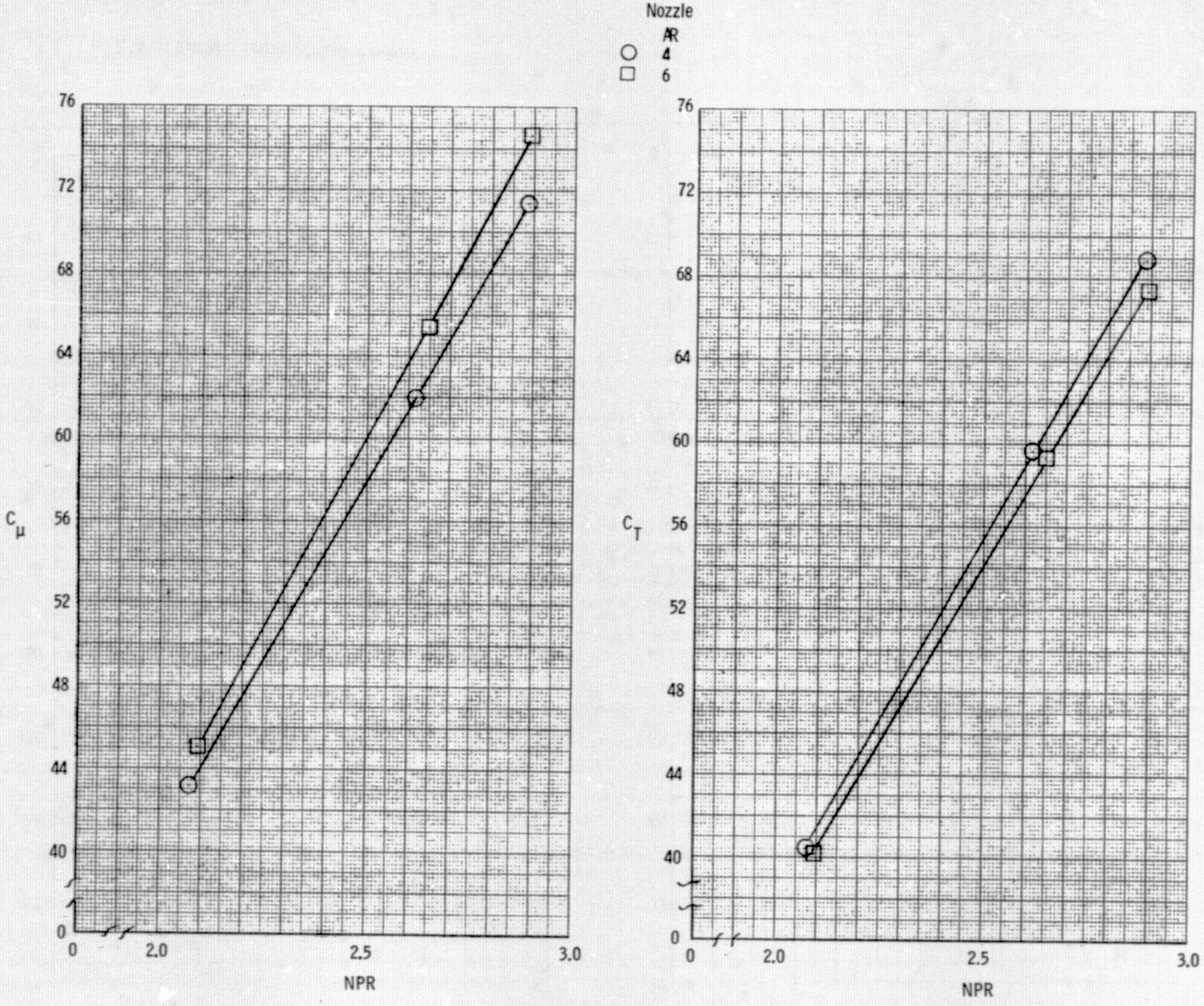
Figure 2.- Photographs of the model installed in the Langley 7- by 10-foot high speed tunnel.

Figure 2.- Concluded.



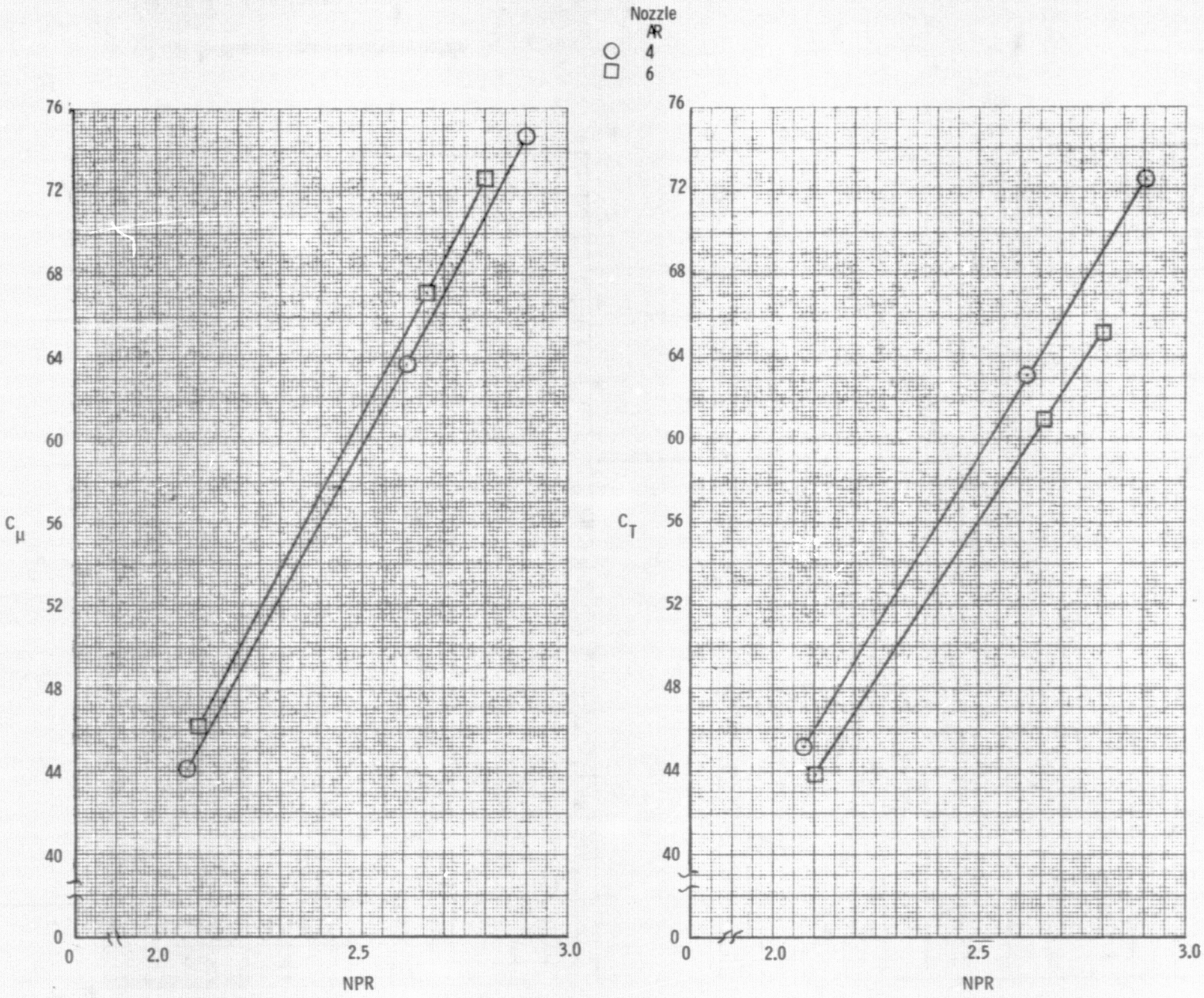

(a) Spanwise blowing nozzle off.

Figure 3.- Ideal and measured nozzle thrust calibration as a function of nozzle pressure ratio.



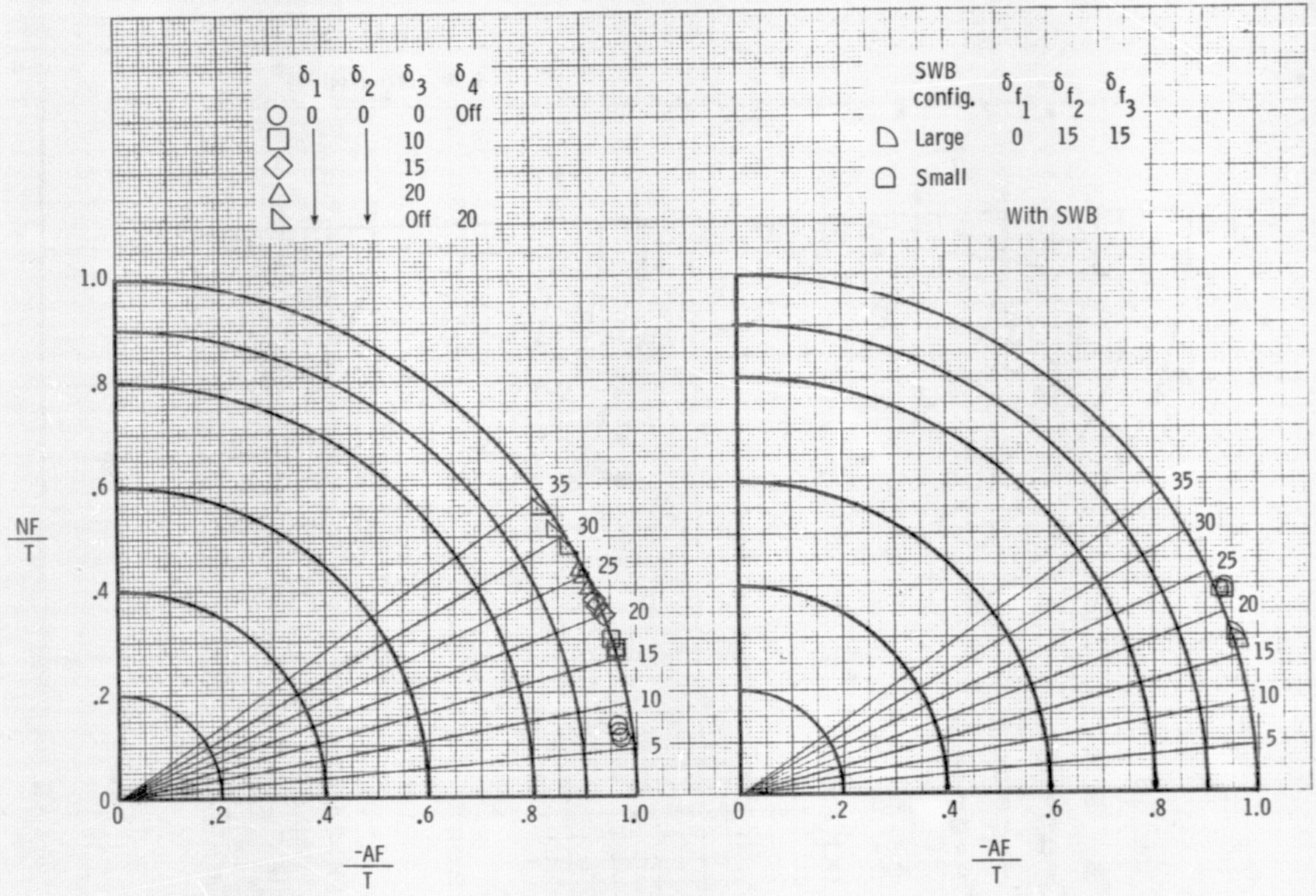

(b) 1.27 cm diameter spanwise blowing nozzle

Figure 3.- Continued.



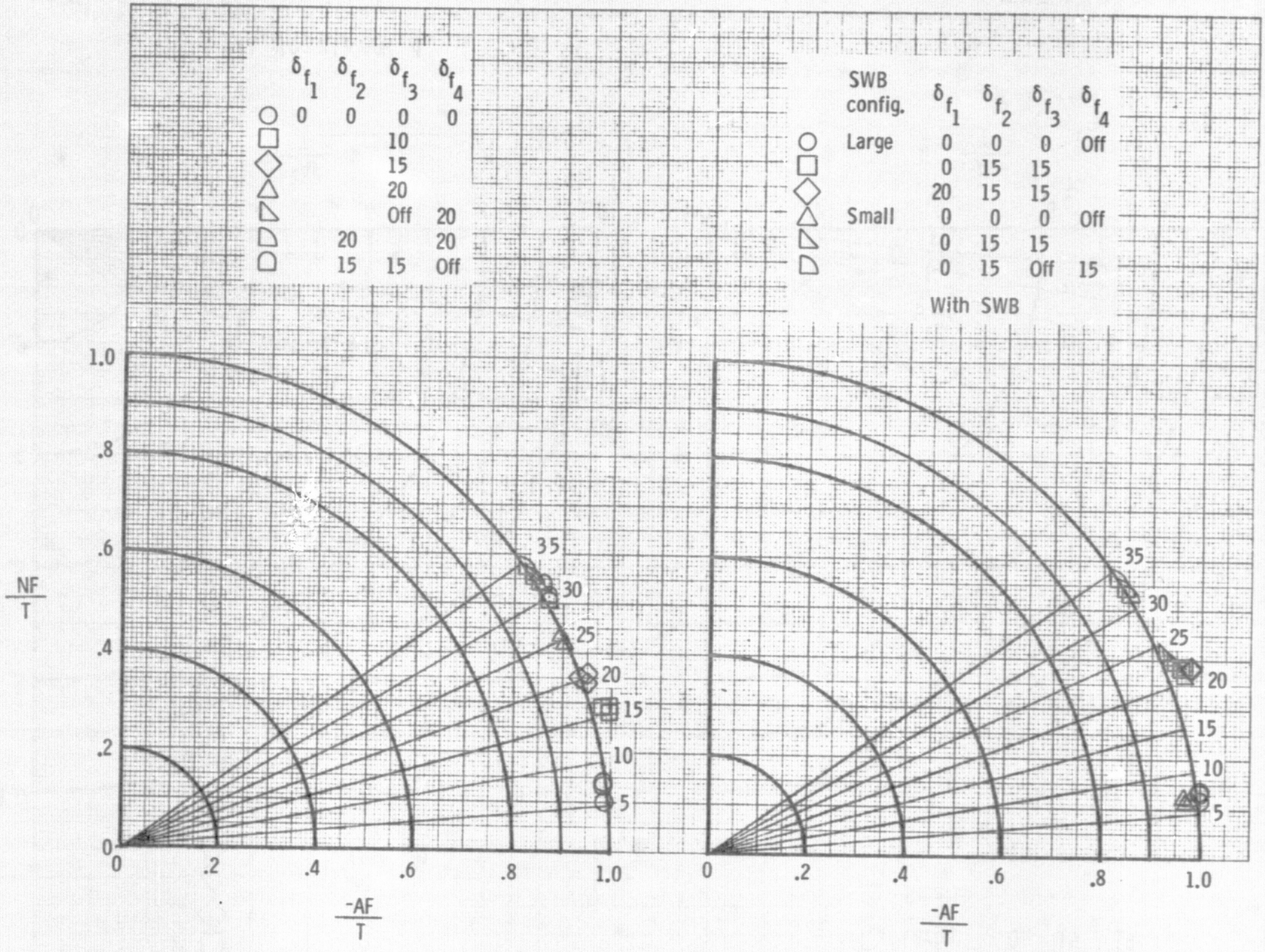

(c) 2.54 cm diameter spanwise blowing nozzle

Figure 3.- Concluded.



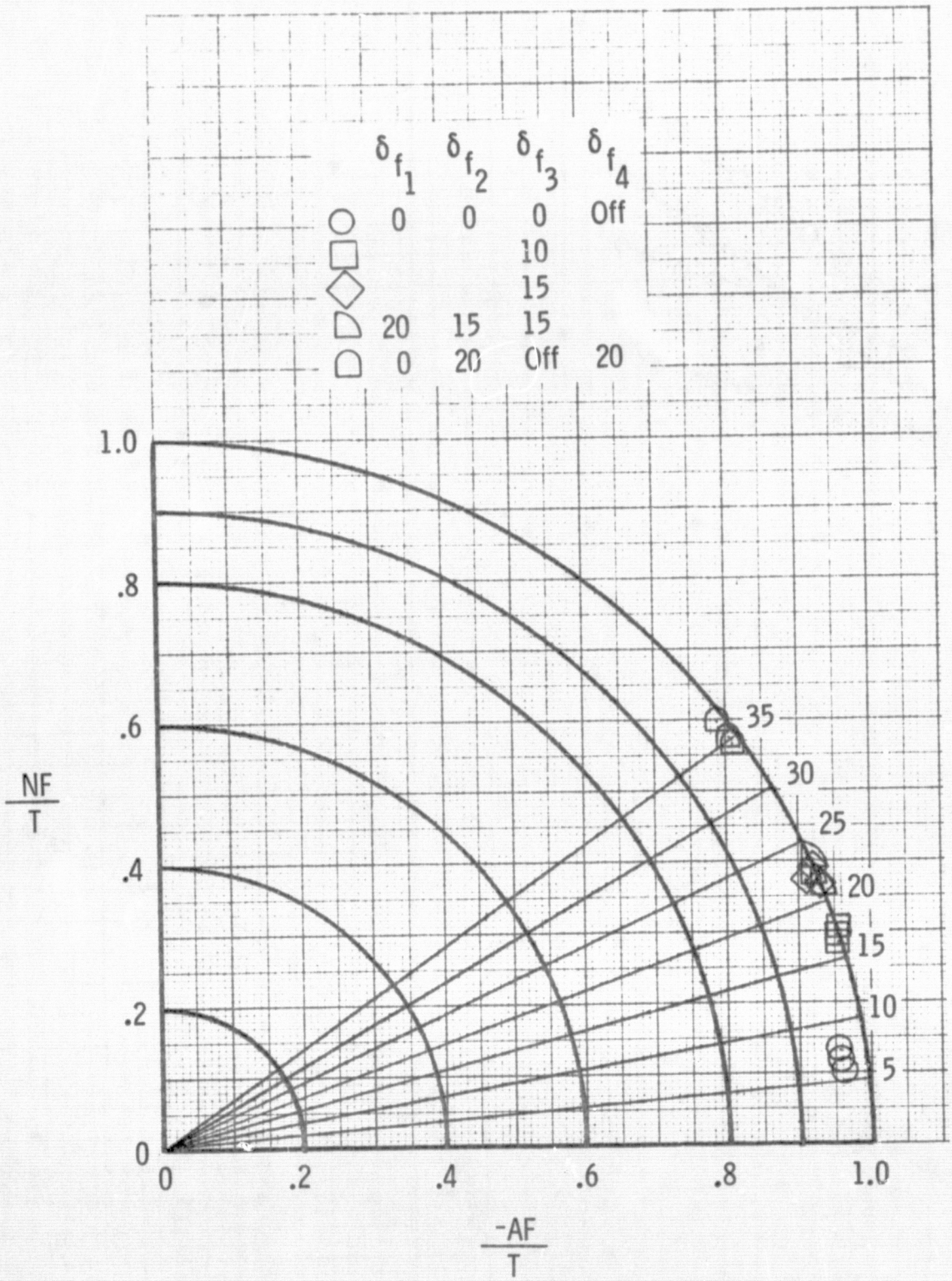

(a) Nozzle AR 4

Figure 4.- Flap static turning effectiveness. $q_\infty$ = 0; T = variable (587 to 1152 N).




(b) Nozzle AR 6

Figure 4.- Continued.




(c) Nozzle AR 8

Figure 4.- Concluded.

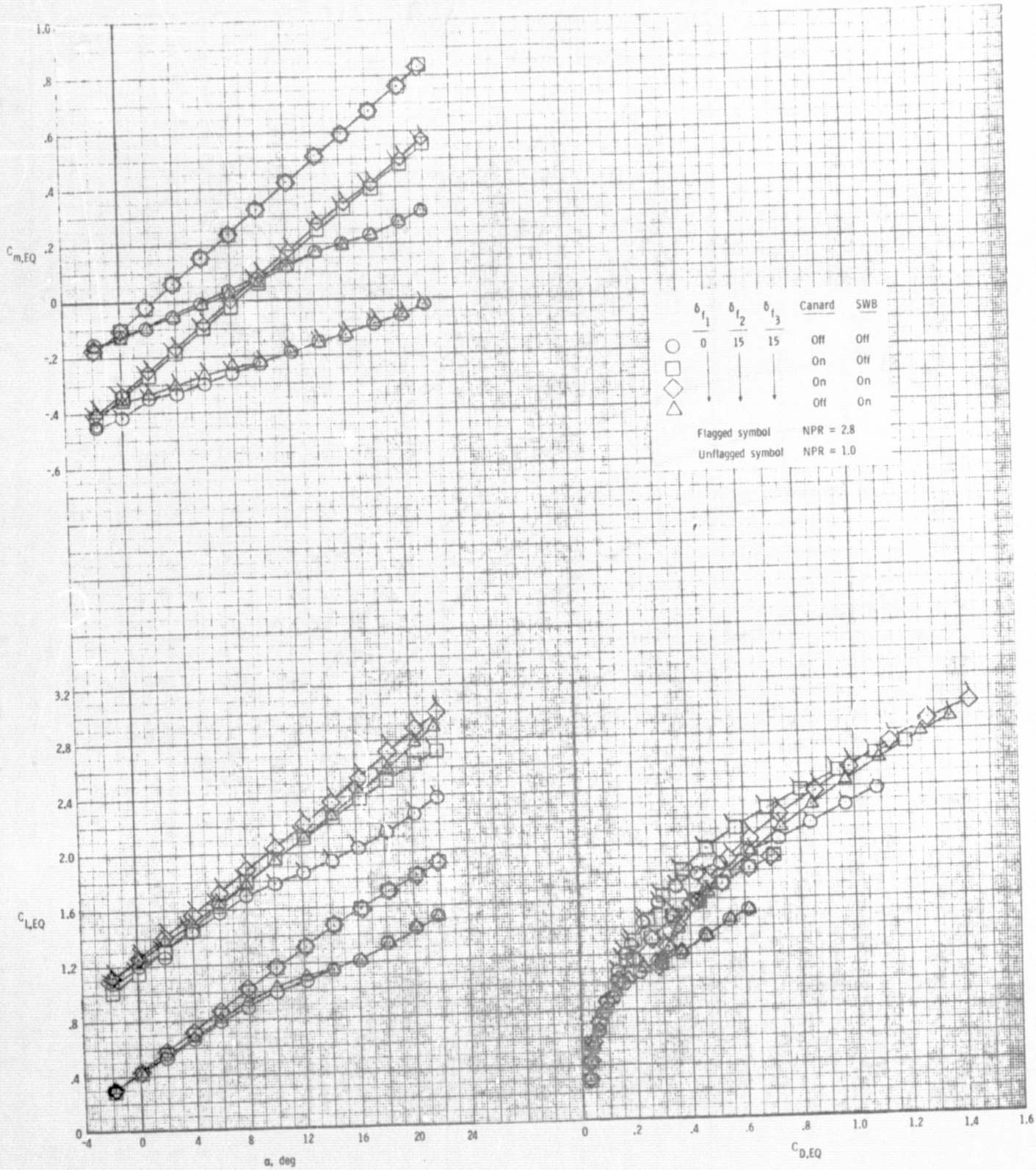



Figure 5. Selected equivalent longitudinal aerodynamic characteristics of a typical configuration utilizing the large canard, the aspect ratio 4 nozzle, and the 1.27 cm diameter spanwise blowing nozzle

| 1 Report No | 2. Government Accession No. | 3. Recipient's Catalog No. |
|---|---|---|
| NASA TM X-73955 | | |

| 4. Title and Subtitle | 5. Report Date |
|---|---|
| Subsonic Longitudinal Aerodynamic Characteristics Of A Vectored-Engine-Over-Wing Configuration Having Spanwise Leading-Edge Vortex Enhancement | May 1977 |
| | 6. Performing Organization Code |
| 7. Author(s) | 8. Performing Organization Report No. |
| Jarrett K. Huffman and Charles H. Fox, Jr. | |
| | 10. Work Unit No. |
| 9. Performing Organization Name and Address | |
| Langley Research Center<br>Hampton, VA 23665 | 11. Contract or Grant No. |
| | 13. Type of Report and Period Covered |
| 12. Sponsoring Agency Name and Address | Technical Memorandum |
| National Aeronautics and Space Administration<br>Washington, D.C. 20546 | 14. Sponsoring Agency Code |

15. Supplementary Notes

16. Abstract A recent major trend in the conceptual design of advanced fighter aircraft has been the emphasis on achieving a high degree of maneuverability. The use of canards, maneuvering flaps, and wing leading edge vortex enhancement are being actively studied as methods of increasing the maximum useable lift capability and thereby the maneuverability of a configuration.

Previous studies have demonstrated the performance improvements related to the use of close coupled canard-wing concept (ref. 1) and to the use of spanwise blowing to enhance the wing-leading edge vortex of a typical configuration (ref. 2).

In the late 1950's considerable research was done at the Langley Research Center where the jet efflux was exhausted externally over the top of the wing and deflected downward by trailing-edge flaps. The results indicated that the concept provided good aerodynamic efficiency and, because the wing tended to shield the engine noise from the ground, offered advantages for minimizing the noise associated with powered lift (see refs. 3 and 4).

The present study is concerned with a configuration which intergrates a close coupled canard-wing combination, spanwise blowing for enhancement of the wing leading edge vortex, an engine-over-wing concept, and a wing trailing edge coanda-effect flap. The purpose of the present paper is to present the data on this configuration in tabular form without discussion in order to expedite publication.

The investigation was conducted in the Langley 7- by 10-foot high speed tunnel at a Mach number of 0.166 through an angle-of-attack range from -2 to 22 degrees. Rectangular main engine nozzles of aspect ratio 4, 6, and 8 were tested over a momentum coefficient range from 1.0 to 1.8.

It should be noted that the present study represents a joint General Dynamics-Air Force-NASA undertaking.

| 17. Key Words (Suggested by Author(s)) | 18. Distribution Statement |
|---|---|
| Longitudinal Aerodynamics<br>Vectored-Engine-Over-Wing<br>Spanwise Leading-Edge Vortex Enhancement<br>Powered Aerodynamic Characteristic | Star Category-02<br>Unclassified-Unlimited |

| 19. Security Classif. (of this report) | 20. Security Classif. (of this page) | 21. No. of Pages | 22. Price* |
|---|---|---|---|
| Unclassified | Unclassified | 215 | $7.75 |

* For sale by the National Technical Information Service, Springfield, Virginia 22161