NASA Technical Memorandum 104211

PRESSURE MEASUREMENTS ON A RECTANGULAR WING WITH A NACA0012 AIRFOIL DURING CONVENTIONAL FLUTTER

José A. Rivera, Jr., Bryan E. Dansberry,
Michael H. Durham, Robert M. Bennett,
and Walter A. Silva

July 1992

National Aeronautics and
Space Administration

Langley Research Center
Hampton, Virginia 23665

PRESSURE MEASUREMENTS ON A RECTANGULAR WING WITH A NACA 0012 AIRFOIL DURING CONVENTIONAL FLUTTER

José A. Rivera, Jr., Bryan E. Dansberry, Michael H. Durham,
Robert M. Bennett, and Walter A. Silva

NASA Langley Research Center
Hampton, VA 23665-5225

SUMMARY

The Structural Dynamics Division at NASA Langley Research Center has started a wind tunnel activity referred to as the Benchmark Models Program. The primary objective of the program is to acquire measured dynamic instability and corresponding pressure data that will be useful for developing and evaluating aeroelastic type CFD codes currently in use or under development. The program is a multi-year activity that will involve testing of several different models to investigate various aeroelastic phenomena. The first model consisted of a rigid semispan wing having a rectangular planform and a NACA 0012 airfoil shape which was mounted on a flexible two degree-of-freedom mount system. Two wind-tunnel tests have been conducted with the first model. Several dynamic instability boundaries were investigated such as a conventional flutter boundary, a transonic plunge instability region near Mach=0.90, and stall flutter. In addition, wing surface unsteady pressure data were acquired along two model chords located at the 60 and 95-percent span stations during these instabilities. At this time, only the pressure data for the conventional flutter boundary is presented. This paper presents the conventional flutter boundary and the wing surface unsteady pressure measurements obtained at the conventional flutter boundary test conditions in pressure coefficient form. This paper also contains wing surface steady pressure measurements obtained with the model mount system rigidized. These steady pressure data were acquired at essentially the same dynamic pressure at which conventional flutter had been encountered with the mount system flexible.

INTRODUCTION

The development of unsteady aeroelastic computational fluid dynamic (CFD) codes requires experimental data to validate computed results and/or for use as a guide for modification of analyses methods. The Benchmark Models Program[1] was initiated by the Structural Dynamics Division at NASA Langley Research Center to provide such experimental data and to aid in understanding the flow phenomena associated with unusual aeroelastic phenomena.

The Benchmark Models Program (BMP) has identified several aerodynamic configurations to be tested in the NASA Langley Transonic Dynamics Tunnel (TDT). Some configurations are models for testing on a flexible mount system, referred to as the Pitch and Plunge Apparatus (PAPA). The NACA 0012 airfoil rectangular wing is the first of these BMP PAPA mounted models. To date, two wind tunnel tests have been conducted for this model. During the first wind-tunnel test, flutter boundaries were defined and wing surface pressure measurements were obtained for a partial set of pressure transducers at the 60-percent span station. Preliminary results from this test are presented in reference 2. These results were used primarily as a guide for defining the scope of the second test. The second wind-tunnel test of this model was conducted to determine the flutter boundaries

while simultaneously taking surface pressure measurements at most flutter conditions. For the second test, additional pressure transducers were installed on the wing to give more wing surface pressure measurements at both the 60-percent and 95-percent span stations.

This report presents the conventional flutter boundary defined during the second test and contains the wing surface unsteady pressure measurements acquired at the conventional flutter boundary test conditions. This report also contains an extensive set of wing surface steady pressure measurements obtained with the model support system rigidized. In addition, the wind-off structural dynamic characteristics of the wing mounted on the flexible mount system and the measured airfoil coordinates of the wing model are presented. All pressure results are tabulated and presented in pressure-coefficient form.

NOMENCLATURE

a	Speed of sound, ft/sec
Cp	Pressure coefficient during flutter
Cp Mean	Mean pressure coefficient during flutter
Cp Min	Minimum pressure coefficient during flutter
Cp Max	Maximum pressure coefficient during flutter
c	Wing streamwise local chord length, 16-inches
f	Frequency, Hz
f_2	Wind-off pitch frequency, 5.20 Hz
f_f	Flutter frequency, Hz
f_f/f_2	Flutter frequency ratio
g	Structural damping
h	Vertical (plunge) displacement, inches
k	Reduced frequency, $k=(c/2)\omega/V$
l	Wing spanwise length, 32 inches
L.E.	Leading edge
m	Calculated moving mass of wing/PAPA mechanism, 5.966 slugs
M	Free-stream Mach number
Phase	Phase angle referenced to pitch rotation, degrees
q	Free-stream dynamic pressure, psf
Rn	Reynolds number based on chord length
Std Dev	Statistical Standard Deviation (an RMS value)
Tab	Tab point number
T.E.	Trailing edge
V	Free-stream velocity, ft/sec
V_I	Flutter speed index, $V_I=V/(c/2)\omega\sqrt{\mu}$

woz	Wind-off-zero
x	Chordwise distance from wing leading edge, inches
x/c	Fraction of local chord
y	Spanwise coordinate (also Y), inches
z	Vertical coordinate, inches
α	Wing angle of attack (also alpha), degrees
η	Fraction of wing span (also ETA)
θ	Pitch rotation (positive L.E. up), degrees
μ	Mass ratio, $\mu = m/\pi\rho l(c^2/4)$
ρ	Free-stream density, slugs/ft^3
ω	Circular frequency, rad/sec

WIND TUNNEL

The wind-tunnel tests were conducted in the Langley Transonic Dynamics Tunnel (TDT)[3]. The TDT is a continuous flow, single return wind tunnel with a 16-foot square test section (with cropped corners) having slots in all four walls. It is capable of operating at Mach numbers up to 1.2 and at stagnation pressures from near vacuum to atmospheric. The tunnel is equipped with four quick-opening bypass valves which can be used to rapidly reduce test-section dynamic pressure and Mach number when an instability occurs. Although either air or a heavy gas can be used as a test medium, only air was used for the present tests.

MODEL DESCRIPTION

The model is a semispan rigid wing mounted on a flexible mount system referred to as the Pitch and Plunge Apparatus (PAPA). A photograph of the model mounted in the TDT test section is shown in figure 1. A planform view of the model is shown in figure 2. The model has a NACA 0012 airfoil section and a rectangular planform with a span of 32 inches and a chord of 16 inches. The mount system is attached to a turntable which provides for angle-of-attack variation. Transition strips made up of No. 30 carborundum grit were applied to the model approximately one inch back from the leading edge (approximately 6-percent chord) on both the upper and lower surfaces.

Design coordinates for the NACA 0012 airfoil section are presented in table 1. The equation for the airfoil design coordinates is available from reference 4.

After the model was fabricated, measurements were made at four spanwise stations to define the actual fabricated and assembled shape of the airfoil. These measured airfoil coordinates for four spanwise stations are presented in table 2.

The model was designed to allow installation of 80 in-situ pressure transducers for measurement of unsteady wing surface pressures. These pressure transducers were referenced to wind-tunnel static pressure. Forty of the transducers are located at the 60-percent span station, and forty at the 95-percent span station. The span locations for each

pressure measurement are indicated in figure 2. The chordwise locations for each pressure measurement on the airfoil cross section are illustrated in figure 3 and presented in table 3.

Details of the model construction can be seen in the photographs of figure 4. The lower photograph shows that the model was fabricated in three sections. Each section was machined from solid aluminum stock. The sections were bolted together after the pressure transducers, reference pressure tubes, and wiring were installed. In the upper left photograph is an expanded view of a portion of the mid section which shows holes drilled in the edge of the section. These holes were used for insertion of the pressure transducers. Two pressure transducers are shown next to the model. One of the pressure transducers is shown mounted in a brass tube. The brass tube is used to protect the transducer when it is inserted and removed from the model. The associated orifice holes for the pressure transducers are located about one inch from the inboard edge of the mid section and tip section. When the pressure transducers and sleeves are inserted, the measurement face of the pressure transducer is within 0.2 inch of the orifice location on the wing surface where the pressure measurement is being made. Exceptions are the trailing edge pressure transducers which are approximately 0.7 inch from the orifice location.

There are four accelerometers in the model, one near each corner, used to assist in identifying model dynamic characteristics during testing. These accelerometers are mounted in pockets, one of which is shown in the photograph in the upper right of figure 4.

MOUNT SYSTEM

The model mounting system is composed of two basic parts. They include a flexible support which could be rigidized, and a large splitter plate. The model is mounted outboard of the splitter plate.

The flexible support, which allows pitch and plunge motion of the model, is located behind the splitter plate. A description of the flexible mount system, referred to as the PAPA (Pitch and Plunge Apparatus),[5,6] is presented in figures 5, 6, and 7. Figure 5 is a photograph which shows a moving plate supported out from the tunnel wall by a system of four rods and a centerline flat plate drag strut all with fixed-fixed end conditions. At the tunnel wall the rods and drag strut are attached to a mounting plate attached to a turntable so that the model angle of attack can be varied.

The rods and flat plate drag strut provide linearly constrained motion so that the model can oscillate sinusoidally in pitch and plunge. The oscillations are functions of the stiffness of the rods, the mass properties of the moving apparatus, and the aerodynamic forces on the model. The structural properties of this simple mount system can be well defined mathematically and can be easily measured for flutter calculations. This makes the PAPA mount system a valuable tool for obtaining experimental model flutter data for correlation with analysis because disagreement between theory and experiment can be primarily attributed to aerodynamics. The PAPA is instrumented with two strain gage bridges oriented to measure bending and torsional moments from which wing model instantaneous plunge position and pitch angle can be obtained. These are located on the flat plate drag strut near the mounting plate.

Rigidizing the flexible support was achieved by enclosing the rod system with a 12-inch by 12-inch box-beam that was 38.5 inches long. The box-beam was attached to the moving plate at one end, and the mounting plate at the other. The mounting plate attached to the turntable (as in the flexible configuration) so that the model angle of attack could be varied. The box-beam was composed of four 3/16-inch thick aluminum plates. With the

mount system rigidized the model could be tested in a position that was set by the turntable position.

The PAPA splitter plate, shown in figure 6, is suspended out from the test-section wall by struts which are about 40 inches long. The splitter plate is 12 feet long and 10 feet high. The centerline of the model and the PAPA support system is 7 feet rearward from the leading edge of the splitter plate. The PAPA mount system rods and drag strut are enclosed in a fairing behind the splitter plate. The wing model and end plate are the only parts of the apparatus that are exposed to the flow in the test section. The splitter plate serves to separate flow over the model from flow around the mount system fairing which is located between the splitter plate and the test section wall.

A top view sketch which shows how the wing model, the PAPA apparatus, the splitter plate and other components fit together is presented as figure 7. The model is attached to a short pedestal or spacer which protrudes through the opening in the splitter plate, all of which attaches to the moving plate. The moving plate has provisions for the addition of ballast weights (indicated in figure 7) to adjust the mount system structural dynamic characteristics. The opening in the splitter plate is covered by a thin circular end plate attached to the root section of the model to prevent flow through the splitter plate. The circular end plate has a diameter equal to the model chord length. The circular plate can be seen in the photograph of figure 6. The gap between the end plate and the splitter plate was less than one-tenth of an inch, but sufficient so that the end plate did not rub against the splitter plate.

DATA ACQUISITION AND REDUCTION

Wing model and mount system transducer time history data were acquired at the conventional flutter boundary test conditions with the TDT data acquisition system. The data were acquired simultaneously (not multiplexed) for all transducers at a rate of 100 samples per second for 40 seconds and recorded in digital form on disk.

For each differential pressure transducer (the pressure transducers were referenced to wind-tunnel static pressure) the mean, minimum, maximum, and standard deviation values were calculated using all 4000 samples of data. These pressure values were divided by the dynamic pressure (q) at the test condition to form a pressure coefficient Cp. This analysis method was used when the mount system was flexible (unsteady pressure data) as well as when it was rigidized (steady pressure data).

The plunge position of the wing model was determined from a strain gage bridge measurement on the flat plate drag strut of the mount system. The pitch position of the model was determined by adding the pitch (twist) of the PAPA support system, also determined by a strain gage bridge measurement, to the measured turntable pitch angle. A discrete (single frequency) Fourier transform at the flutter frequency was used to determine, for each pressure measurement, the first-harmonic magnitude and phase in relation to the pitch position of the wing model during flutter. The flutter frequency was determined by analyzing the torsion strain gage bridge measurement and identifying the frequency of the peak amplitude.

STRUCTURAL DYNAMIC CHARACTERISTICS

The first two wind-off natural modes of vibration for the NACA 0012 model/PAPA mount system assembly are the wing-model rigid-body plunge and rigid-body pitch modes

respectively. Inertia coupling between these two modes was eliminated by positioning ballast weights on the PAPA system moving plate so that the system center of gravity was on the PAPA elastic axis (centerline). Therefore the rigid-body plunge mode consists only of vertical translation of the wing model and the rigid-body pitch mode consists only of rotation of the wing model about the mid-chord. The measured frequencies, damping and stiffnesses for these two modes are presented in table 4. Modal displacements for corresponding, unit-generalized-masses are also presented in table 4.

CONVENTIONAL FLUTTER BOUNDARY EXPERIMENTAL RESULTS

The conventional flutter boundary, a plunge instability region, and stall flutter boundaries were defined during testing. These boundaries are similar to those encountered during the first test as described in reference 2. As mentioned previously, the flutter results presented herein are from the conventional flutter boundary only.

The conventional flutter boundary for zero degrees angle of attack, is shown in figure 8 as flutter dynamic pressure versus Mach number. The conventional flutter data is represented by the symbols. The model is stable below the boundary and is unstable above the boundary. An unusual trend of an increase in flutter dynamic pressure with subsonic Mach numbers is shown. This is probably a result of the elastic axis of the wing/mount system being located at the wing mid-chord. There is a small transonic dip near M=0.77 followed by a sharp upward turn of the boundary near M=0.80. The flutter boundary is well defined with a large number of flutter points and relatively small scatter. A tabulation of the test conditions and flutter parameters for each test point on the conventional flutter boundary are presented in table 5. Also included in table 5 are the magnitude and phase of the pitch and plunge displacement during flutter, θ and h respectively.

PRESSURE MEASUREMENTS AT THE CONVENTIONAL FLUTTER BOUNDARY

Wing surface pressures were measured during most of the flutter points obtained during testing. At this time, only the pressure data for the conventional flutter boundary have been processed. A summary of the test conditions at which wing surface pressure measurements were obtained for the conventional flutter boundary is presented in table 6 for convenience of identifying and locating a desired set of pressure data. Each test condition is identified by a tab point number which is located in the first column of table 6. In addition the nominal Mach number and nominal dynamic pressure (q) for the test condition are presented. Mach number and dynamic pressure varied a small amount during the 40-second data acquisition process. The nominal values presented are the wind-tunnel test conditions immediately following the 40-second data acquisition process

The measured pressure coefficient mean values (Cp Mean), the range of variation (Cp Min, Cp Max), and the standard deviation of the wing surface pressure measurements for the conventional flutter boundary are presented in table 7. The test condition tab point number is located in the upper left-hand corner of each page of table 7. Sample plots showing the range of variation (Cp minimum and Cp maximum) of the unsteady pressure distribution, and Cp mean (average) of the unsteady pressure distribution during flutter at M= 0.51 are presented in figure 9. Figure 9 shows results for both the 60-percent and 95-percent span stations.

The magnitude of the unsteady pressure coefficients (Cp Magnitude) and the phase relative to the pitch displacement of the wing model, during flutter, were obtained from a discrete

Fourier analysis at the flutter frequency. These are presented in table 8 for the data sets obtained during the exploration of the conventional flutter boundary. In addition, the first harmonic plunge and pitch magnitudes (h and θ) and phases relative to the pitch motion are presented in table 8. The measurement point number (tab), Mach number, dynamic pressure (q), and mean alpha are also presented. Sample magnitude and phase plots are presented in figure 10 for tab point 74, M=0.51. Data are presented on the left for the 60 percent span station and on the right for the 95-percent span station. The first harmonic unsteady pressure coefficient magnitude for both the upper and lower surface measurements are largest at the wing leading edge followed by a decrease at locations further aft on the chordline. The unsteady surface pressures along the upper surface are about 180 degrees out of phase with the pitch motion of the model. The lower surface pressures are generally in phase.

PRESSURE MEASUREMENTS WITH MOUNT SYSTEM RIGIDIZED

During a portion of the testing the model mount system was rigidized so that wing surface steady pressures could be measured with the model in a fixed position. Pressure data were obtained to show the degree of flow unsteadiness that exists across the Mach number range at essentially the same dynamic pressure at which conventional flutter had been encountered with the flexible mount system. A summary of the test conditions at which steady pressure data were obtained for the model in a fixed position is presented in table 9. Wing surface steady pressure measurement conditions are presented for 13 Mach number test conditions. At a given test condition the model angle of attack was varied and data were acquired. The pressure coefficient mean, minimum, and maximum, and standard deviation are presented in Table 10. The measurement point number, Mach, q, and model alpha are also presented. Sample plots of the pressure distribution for M=0.50 at alpha= 0.0 degrees with the support system rigidized are presented in figure 11. The data in figure 11 are the mean, minimum and maximum values for the model measured surface pressure coefficients at the 60 and 95 percent span stations from the leading edge (x/c = 0.0) towards the trailing edge (x/c = 1.0).

CONCLUDING REMARKS

The Benchmark Models Program (BMP) has been initiated with the primary objective of obtaining experimental data for aeroelastic CFD code development, evaluation, and validation. The first BMP model consisted of a rigid semispan wing having a rectangular planform and a NACA 0012 airfoil shape. This model was mounted on a flexible two degree-of-freedom mount system. Tests on the first BMP model have been conducted in the NASA Langley Transonic Dynamics Tunnel to investigate instability boundaries while simultaneously taking surface pressure measurements. Several different types of dynamic instability were investigated. They included conventional flutter, a plunge instability region, and stall flutter. At this time, only the pressure data for the conventional flutter boundary is presented.

This report presents only the conventional flutter boundary defined during testing and the corresponding wing surface unsteady pressure measurements acquired at the conventional flutter boundary test conditions. This report also contains an extensive set of wing surface steady pressure measurements obtained with the model support system rigidized. In addition, the wind-off structural dynamic characteristics of the wing, mounted on the flexible mount system, and the measured airfoil coordinates of the wing model are presented. All pressure results are tabulated and presented in pressure-coefficient form.

Early release of these experimental results is intended to help in the development and validation of aeroelastic CFD codes.

REFERENCES

1. Bennett, Robert M.; Eckstrom, Clinton V.; Rivera, José A., Jr.; Dansberry, Bryan E.; Farmer, Moses G.; and Durham, Michael H.: The Benchmark Aeroelastic Models Program - Description and Highlights of Initial Results. Presented at the AGARD Structures and Materials Panel Specialists' Meeting on TRANSONIC UNSTEADY AERODYNAMICS AND AEROELASTICITY. San Diego, California. October 9-11, 1991. Paper No. 25, also available as NASA TM-104180, 1991.
2. Rivera, José A., Jr.; Dansberry, Bryan E.; Farmer, Moses G.; Eckstrom, Clinton V.; Seidel, David A.; and Bennett, Robert M.: Experimental Flutter Boundaries with Unsteady Pressure Distributions for the NACA 0012 Benchmark Model. AIAA Paper No. 91-1010, 1991. Also NASA TM-104072, 1991.
3. Yates, E. Carson, Jr.; Land, Norman S.; and Foughner, Jerome T.: Measured and Calculated Subsonic and Transonic Flutter Characteristics of a 45° Sweptback Wing Planform in Air and in Freon-12 in the Langley Transonic Dynamics Tunnel. NASA TN D-1616, 1963.
4 Abbott, Ira H.; and Von Doenhoff, Albert E.: Theory of Wing Sections. Dover Publications Inc., New York, c. 1959.
5. Farmer, Moses G.: A Two-Degree-of-Freedom Flutter Mount System with Low Damping for Testing Rigid Wings at Different Angles of Attack. NASA TM-83302, 1982.
6. Farmer, Moses G.: Model Mount System for Testing Flutter. U.S. Patent Number 4,475,385, Oct. 9, 1984.

TABLE 1. - Design airfoil coordinates

x/c	x, in.	z, in. (upper)	z, in. (lower)	x/c	x, in.	z, in. (upper)	z, in. (lower)
0.000	0.000	0.000	0.000	0.500	8.000	0.847	-0.847
0.002	0.032	0.125	-0.125	0.510	8.160	0.837	-0.837
0.005	0.080	0.195	-0.195	0.520	8.320	0.826	-0.826
0.010	0.160	0.273	-0.273	0.530	8.480	0.815	-0.815
0.020	0.320	0.378	-0.378	0.540	8.640	0.804	-0.804
0.030	0.480	0.454	-0.454	0.550	8.800	0.792	-0.792
0.040	0.640	0.516	-0.516	0.560	8.960	0.780	-0.780
0.050	0.800	0.569	-0.569	0.570	9.120	0.768	-0.768
0.060	0.960	0.614	-0.614	0.580	9.280	0.756	-0.756
0.070	1.120	0.654	-0.654	0.590	9.440	0.743	-0.743
0.080	1.280	0.689	-0.689	0.600	9.600	0.730	-0.730
0.090	1.440	0.721	-0.721	0.610	9.760	0.717	-0.717
0.100	1.600	0.749	-0.749	0.620	9.920	0.703	-0.703
0.110	1.760	0.775	-0.775	0.630	10.080	0.690	-0.690
0.120	1.920	0.798	-0.798	0.640	10.240	0.676	-0.676
0.130	2.080	0.819	-0.819	0.650	10.400	0.661	-0.661
0.140	2.240	0.838	-0.838	0.660	10.560	0.647	-0.647
0.150	2.400	0.855	-0.855	0.670	10.720	0.632	-0.632
0.160	2.560	0.871	-0.871	0.680	10.880	0.617	-0.617
0.170	2.720	0.885	-0.885	0.690	11.040	0.602	-0.602
0.180	2.880	0.897	-0.897	0.700	11.200	0.586	-0.586
0.190	3.040	0.908	-0.908	0.710	11.360	0.571	-0.571
0.200	3.200	0.918	-0.918	0.720	11.520	0.555	-0.555
0.210	3.360	0.927	-0.927	0.730	11.680	0.539	-0.539
0.220	3.520	0.934	-0.934	0.740	11.840	0.522	-0.522
0.230	3.680	0.941	-0.941	0.750	12.000	0.506	-0.506
0.240	3.840	0.946	-0.946	0.760	12.160	0.489	-0.489
0.250	4.000	0.951	-0.951	0.770	12.320	0.472	-0.472
0.260	4.160	0.954	-0.954	0.780	12.480	0.455	-0.455
0.270	4.320	0.957	-0.957	0.790	12.640	0.437	-0.437
0.280	4.480	0.959	-0.959	0.800	12.800	0.420	-0.420
0.290	4.640	0.960	-0.960	0.810	12.960	0.402	-0.402
0.300	4.800	0.960	-0.960	0.820	13.120	0.384	-0.384
0.310	4.960	0.960	-0.960	0.830	13.280	0.366	-0.366
0.320	5.120	0.959	-0.959	0.840	13.440	0.347	-0.347
0.330	5.280	0.957	-0.957	0.850	13.600	0.328	-0.328
0.340	5.440	0.955	-0.955	0.860	13.760	0.309	-0.309
0.350	5.600	0.952	-0.952	0.870	13.920	0.290	-0.290
0.360	5.760	0.948	-0.948	0.880	14.080	0.271	-0.271
0.370	5.920	0.944	-0.944	0.890	14.240	0.252	-0.252
0.380	6.080	0.939	-0.939	0.900	14.400	0.232	-0.232
0.390	6.240	0.934	-0.934	0.910	14.560	0.212	-0.212
0.400	6.400	0.928	-0.928	0.920	14.720	0.191	-0.191
0.410	6.560	0.922	-0.922	0.930	14.880	0.171	-0.171
0.420	6.720	0.916	-0.916	0.940	15.040	0.150	-0.150
0.430	6.880	0.908	-0.908	0.950	15.200	0.129	-0.129
0.440	7.040	0.901	-0.901	0.960	15.360	0.108	-0.108
0.450	7.200	0.893	-0.893	0.970	15.520	0.086	-0.086
0.460	7.360	0.884	-0.884	0.980	15.680	0.064	-0.064
0.470	7.520	0.876	-0.876	0.990	15.840	0.042	-0.042
0.480	7.680	0.867	-0.867	1.000	16.000	0.020	-0.020
0.490	7.840	0.857	-0.857				

TABLE 2. - Measured airfoil coordinates

(a) y=0.75 in.			(b) y=19.25 in.		
x, in.	z, in. (upper)	z, in. (lower)	x, in.	z, in. (upper)	z, in. (lower)
0.000	0.000	0.000	-0.006	0.023	-0.024
0.041	0.142	-0.141	0.035	0.132	-0.147
0.082	0.198	-0.198	0.076	0.188	-0.205
0.123	0.240	-0.241	0.117	0.231	-0.248
0.164	0.275	-0.277	0.158	0.267	-0.283
0.205	0.306	-0.308	0.200	0.297	-0.314
0.246	0.334	-0.335	0.241	0.325	-0.342
0.287	0.359	-0.360	0.282	0.350	-0.367
0.328	0.382	-0.383	0.323	0.373	-0.390
0.369	0.403	-0.404	0.364	0.394	-0.411
0.410	0.423	-0.424	0.405	0.414	-0.430
0.451	0.442	-0.443	0.446	0.432	-0.449
0.491	0.459	-0.460	0.487	0.450	-0.467
0.532	0.476	-0.477	0.528	0.467	-0.483
0.573	0.492	-0.493	0.569	0.483	-0.499
0.614	0.507	-0.508	0.610	0.498	-0.515
0.655	0.522	-0.523	0.651	0.512	-0.529
0.696	0.535	-0.537	0.692	0.526	-0.543
0.737	0.549	-0.550	0.733	0.539	-0.556
0.778	0.562	-0.563	0.774	0.552	-0.569
0.819	0.574	-0.575	0.815	0.565	-0.581
0.860	0.586	-0.587	0.856	0.577	-0.593
0.901	0.598	-0.599	0.897	0.588	-0.605
0.742	0.609	-0.610	0.938	0.599	-0.616
0.983	0.620	-0.622	0.979	0.610	-0.627
1.024	0.630	-0.631	1.020	0.621	-0.637
1.065	0.640	-0.641	1.061	0.631	-0.648
1.106	0.650	-0.651	1.102	0.640	-0.657
1.147	0.660	-0.661	1.143	0.650	-0.667
1.188	0.669	-0.670	1.184	0.659	-0.676
1.229	0.678	-0.679	1.225	0.668	-0.685
1.270	0.686	-0.688	1.266	0.677	-0.694
1.311	0.695	-0.696	1.307	0.685	-0.702
1.352	0.703	-0.704	1.348	0.693	-0.710
1.393	0.711	-0.712	1.389	0.702	-0.718
1.434	0.719	-0.720	1.430	0.709	-0.726
1.474	0.727	-0.728	1.471	0.717	-0.734
1.515	0.734	-0.735	1.512	0.724	-0.741
1.556	0.741	-0.742	1.553	0.732	-0.748
1.597	0.748	-0.750	1.594	0.738	-0.755
2.396	0.854	-0.856	2.394	0.844	-0.861
3.195	0.917	-0.919	3.194	0.907	-0.924
3.993	0.950	-0.951	3.994	0.940	-0.956
4.792	0.960	-0.961	4.794	0.950	-0.966
5.591	0.951	-0.952	5.594	0.942	-0.958
6.389	0.928	-0.929	6.394	0.918	-0.935
7.188	0.892	-0.894	7.194	0.883	-0.900
7.987	0.847	-0.848	7.994	0.837	-0.854
8.785	0.793	-0.794	8.794	0.783	-0.799
9.584	0.731	-0.732	9.594	0.720	-0.737
10.383	0.662	-0.663	10.395	0.651	-0.668
11.181	0.587	-0.589	11.195	0.577	-0.593
11.980	0.508	-0.509	11.995	0.496	-0.513
12.779	0.422	-0.423	12.795	0.411	-0.428
13.578	0.331	-0.332	13.595	0.319	-0.336
14.376	0.232	-0.236	14.395	0.223	-0.240
15.175	0.128	-0.133	15.195	0.120	-0.137
15.974	0.000	-0.026	15.995	0.008	-0.017

TABLE 2. - Concluded

(c) y= 30.30 in.			(d) y= 31.95 in.		
x, in.	z, in. (upper)	z, in. (lower)	x, in.	z, in. (upper)	z, in. (lower)
-0.008	0.009	-0.023	-0.010	-0.007	-0.037
0.033	0.132	-0.145	0.031	0.128	-0.149
0.074	0.190	-0.204	0.072	0.188	-0.207
0.115	0.233	-0.247	0.113	0.232	-0.249
0.156	0.268	-0.282	0.154	0.267	-0.285
0.197	0.298	-0.313	0.195	0.298	-0.315
0.238	0.326	-0.341	0.236	0.326	-0.342
0.279	0.351	-0.366	0.277	0.351	-0.367
0.320	0.374	-0.388	0.318	0.374	-0.390
0.361	0.395	-0.409	0.359	0.396	-0.411
0.402	0.415	-0.429	0.400	0.416	-0.431
0.443	0.434	-0.448	0.441	0.435	-0.449
0.484	0.451	-0.466	0.482	0.452	-0.467
0.525	0.468	-0.482	0.523	0.469	-0.484
0.566	0.484	-0.498	0.564	0.485	-0.500
0.607	0.499	-0.513	0.605	0.500	-0.515
0.648	0.514	-0.528	0.646	0.515	-0.529
0.689	0.527	-0.542	0.687	0.528	-0.543
0.730	0.541	-0.555	0.728	0.542	-0.556
0.771	0.553	-0.568	0.769	0.555	-0.569
0.812	0.566	-0.580	0.810	0.567	-0.581
0.853	0.577	-0.592	0.851	0.579	-0.593
0.894	0.589	-0.604	0.892	0.591	-0.605
0.935	0.600	-0.615	0.933	0.602	-0.616
0.976	0.610	-0.626	0.974	0.613	-0.627
1.017	0.621	-0.636	1.015	0.623	-0.637
1.058	0.631	-0.647	1.056	0.633	-0.647
1.099	0.640	-0.656	1.097	0.643	-0.657
1.141	0.650	-0.666	1.138	0.653	-0.667
1.182	0.659	-0.675	1.179	0.662	-0.676
1.223	0.668	-0.684	1.220	0.671	-0.685
1.264	0.676	-0.693	1.261	0.679	-0.694
1.305	0.685	-0.701	1.302	0.688	-0.702
1.346	0.693	-0.709	1.343	0.696	-0.710
1.387	0.700	-0.717	1.384	0.704	-0.718
1.428	0.708	-0.725	1.425	0.712	-0.726
1.469	0.715	-0.733	1.467	0.720	-0.734
1.510	0.723	-0.740	1.508	0.727	-0.741
1.551	0.730	-0.748	1.549	0.734	-0.748
1.592	0.736	-0.755	1.590	0.741	-0.755
2.392	0.842	-0.860	2.390	0.848	-0.861
3.192	0.908	-0.923	3.190	0.911	-0.924
3.992	0.943	-0.956	3.990	0.944	-0.956
4.792	0.953	-0.966	4.790	0.954	-0.966
5.592	0.944	-0.957	5.590	0.946	-0.957
6.392	0.921	-0.934	6.390	0.922	-0.934
7.192	0.885	-0.898	7.190	0.886	-0.898
7.992	0.840	-0.852	7.990	0.841	-0.852
8.792	0.785	-0.798	8.790	0.787	-0.797
9.592	0.723	-0.735	9.590	0.724	-0.735
10.392	0.654	-0.667	10.390	0.656	-0.666
11.192	0.580	-0.592	11.190	0.581	-0.591
11.992	0.499	-0.511	11.990	0.501	-0.510
12.792	0.414	-0.425	12.790	0.415	-0.424
13.592	0.322	-0.334	13.590	0.324	-0.333
14.392	0.226	-0.237	14.390	0.227	-0.236
15.192	0.123	-0.133	15.190	0.125	-0.133
15.992	-0.063	-0.023	15.990	0.016	-0.018

TABLE 3. - Pressure orifice locations

UPPER SURFACE				LOWER SURFACE			
Orifice No. 60% Span	Orifice No. 95% Span	x/c	x, in.	Orifice No. 60% Span	Orifice No. 95% Span	x/c	x, in.
1	41	0.00	(LE) 0.00				
2	42	0.01	0.16	27	67	0.01	0.16
3	43	0.02	0.32	28	68	0.02	0.32
4	44	0.03	0.48	29	69	0.03	0.48
5	45	0.04	0.64				
6	46	0.05	0.80	30	70	0.05	0.80
7	47	0.08	1.20				
8	48	0.10	1.60	31	71	0.10	1.60
9	49	0.15	2.40				
10	50	0.20	3.20	32	72	0.20	3.20
11	51	0.25	4.00				
12	52	0.30	4.80	33	73	0.30	4.80
13	53	0.35	5.60				
14	54	0.40	6.40	34	74	0.40	6.40
15	55	0.45	7.20				
16	56	0.50	8.00	35	75	0.50	8.00
17	57	0.55	8.80				
18	58	0.60	9.60	36	76	0.60	9.60
19	59	0.65	10.40				
20	60	0.70	11.20	37	77	0.70	11.20
21	61	0.75	12.00				
22	62	0.80	12.80	38	78	0.80	12.80
23	63	0.85	13.60				
24	64	0.90	14.40	39	79	0.90	14.40
25	65	0.95	15.20	40	80	0.95	15.20
26	66	1.00	(TE) 16.00				

TABLE 4. - Structural dynamic properties

Mode	Frequency (Hz)	Structural Damping, g	Measured Stiffness	Modal Displacement leading edge	Modal Displacement trailing edge	Generalized Mass / Inertia
Plunge	3.36	0.0024	2659 lbs/ft	+0.4094 ft	+0.4094 ft	1.0 slug
Pitch	5.20	0.0024	2897 ft-lbs/rad	+0.4047 ft	-0.4047 ft	1.0 slug-ft^2

TABLE 5. - Experimental results for the conventional flutter boundary

Tab	Mach	q (lb/ft^2)	a (ft/sec)	V (ft/sec)	ρ (slugs/ft^3)	Rn x10^{-6}	μ	V_I	f_f (Hz)	f_f / f_2	k	h Mag (in)	h Phase (deg)	θ Mag (deg)	θ Phase (deg)
94	0.30	131.7	1127.2	338.2	0.002303	2.736	696	0.563	4.56	0.877	0.0565	0.27	-175.5	1.63	0.
84	0.39	137.2	1132.3	441.6	0.001407	2.168	1139	0.574	4.51	0.867	0.0428	0.35	-176.2	1.93	0.
79	0.45	137.7	1129.5	508.3	0.001066	1.897	1503	0.575	4.47	0.860	0.0368	0.23	-176.7	1.22	0.
74	0.51	141.9	1121.6	572.0	0.000867	1.755	1848	0.584	4.43	0.852	0.0324	0.32	-177.0	1.49	0.
67	0.61	144.6	1108.8	676.4	0.000632	1.540	2535	0.590	4.34	0.835	0.0269	0.25	-177.3	1.01	0.
62	0.67	146.5	1096.0	734.3	0.000543	1.463	2951	0.593	4.28	0.823	0.0244	0.34	-177.1	1.22	0.
48	0.71	146.9	1106.6	785.7	0.000476	1.316	3366	0.594	4.25	0.817	0.0227	0.26	-177.2	0.89	0.
42	0.77	144.2	1097.1	844.8	0.000404	1.251	3966	0.589	4.13	0.794	0.0205	0.36	-177.1	0.99	0.
129	0.80	147.2	1109.1	887.3	0.000374	1.196	4284	0.595	4.09	0.787	0.0193	0.25	-177.4	0.60	0.
134	0.82	159.9	1111.6	911.5	0.000385	1.259	4162	0.620	4.07	0.783	0.0187	0.21	-176.5	0.42	0.

TABLE 6. - Summary of test conditions where pressures were measured during conventional flutter

Tab	Nominal Mach	Nominal q, psf
94	0.30	131
84	0.39	137
79	0.45	137
74	0.51	142
67	0.61	144
62	0.67	146
48	0.71	147
42	0.77	145
129	0.80	147
134	0.82	160

TABLE 7. - Measured steady pressure data during flutter

Tab	Mach	q (psf)	Mean α (deg)
42	0.77	144.7	0.07

The data was adjusted using wind-off zero 49

Channel	x/c	Upper surface at ETA = 0.60 Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Upper surface at ETA = 0.95 Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.156	1.138	1.175	0.004	69	0.000	1.151	1.130	1.167	0.005
2	0.010	0.284	0.104	0.467	0.088	70	0.010	0.267	0.115	0.416	0.075
3	0.020	-0.007	-0.185	0.182	0.089	71	0.020	-0.047	-0.200	0.104	0.076
4	0.030	-0.140	-0.301	0.033	0.080	72	0.030	-0.187	-0.328	-0.039	0.071
5	0.040	-0.203	-0.338	-0.051	0.071	73	0.040	-0.280	-0.402	-0.146	0.063
6	0.050	-0.180	-0.280	-0.050	0.055	74	0.050	-0.265	-0.362	-0.155	0.049
7	0.075	-0.796	-1.068	-0.488	0.181	75	0.075	-0.622	-0.862	-0.376	0.142
8	0.100	-0.548	-0.887	-0.374	0.109	76	0.100	-0.499	-0.740	-0.390	0.042
9	0.150	-0.659	-0.808	-0.481	0.070	77	0.150	-0.525	-0.620	-0.412	0.044
10	0.200	-0.724	-0.869	-0.509	0.086	78	0.200	-0.489	-0.596	-0.388	0.037
11	0.250	-0.705	-0.896	-0.488	0.120	79	0.250	-0.448	-0.542	-0.365	0.026
12	0.300	-0.582	-0.934	-0.443	0.096	80	0.300	-0.397	-0.464	-0.333	0.019
13	0.350	-0.466	-0.610	-0.384	0.027	81	0.350	-0.347	-0.407	-0.287	0.017
14	0.400	-0.404	-0.500	-0.339	0.021	82	0.400	-0.307	-0.358	-0.259	0.013
15	0.450	-0.350	-0.428	-0.296	0.016	83	0.450	-0.261	-0.305	-0.218	0.012
16	0.500	-0.302	-0.364	-0.256	0.015	84	0.500	-0.229	-0.269	-0.187	0.011
62	0.550	-0.261	-0.314	-0.216	0.013	85	0.550	-0.191	-0.233	-0.148	0.012
18	0.600	-0.212	-0.259	-0.168	0.012	86	0.600	-0.160	-0.201	-0.121	0.010
63	0.650	-0.169	-0.205	-0.139	0.009	87	0.650	-0.131	-0.169	-0.096	0.010
20	0.700	-0.127	-0.168	-0.083	0.011	88	0.700	-0.100	-0.136	-0.064	0.010
21	0.750	-0.087	-0.128	-0.046	0.011	89	0.750	-0.069	-0.104	-0.038	0.010
22	0.800	-0.042	-0.079	-0.007	0.011	90	0.800	-0.037	-0.072	-0.002	0.010
66	0.850	0.015	-0.021	0.050	0.010	91	0.850	-0.001	-0.037	0.030	0.010
24	0.900	0.071	0.038	0.104	0.009	92	0.900	0.048	0.013	0.082	0.009
25	0.950	0.138	0.109	0.171	0.008	93	0.950	0.108	0.079	0.140	0.008
26	1.000	0.207	0.177	0.232	0.007	94	1.000	0.093	0.070	0.124	0.006
		Lower surface at ETA = 0.60						Lower surface at ETA = 0.95			
27	0.010	0.310	0.136	0.481	0.088	95	0.010	0.463	0.316	0.611	0.074
28	0.020	0.004	-0.177	0.187	0.092	96	0.020	-0.019	-0.168	0.132	0.075
29	0.030	-0.108	-0.297	0.094	0.090	97	0.030	-0.138	-0.281	0.006	0.071
30	0.050	-0.221	-0.337	-0.085	0.063	98	0.050	-0.270	-0.376	-0.159	0.052
31	0.100	-0.560	-0.899	-0.393	0.106	99	0.100	-0.493	-0.762	-0.390	0.048
32	0.200	-0.705	-0.868	-0.522	0.087	100	0.200	-0.489	-0.613	-0.403	0.036
33	0.300	-0.567	-0.906	-0.442	0.086	101	0.300	-0.402	-0.483	-0.344	0.020
34	0.400	-0.406	-0.484	-0.347	0.020	102	0.400	-0.301	-0.356	-0.253	0.014
35	0.500	-0.309	-0.359	-0.254	0.015	103	0.500	-0.232	-0.277	-0.188	0.011
36	0.600	-0.214	-0.262	-0.169	0.012	104	0.600	-0.162	-0.200	-0.123	0.011
37	0.700	-0.129	-0.174	-0.088	0.011	105	0.700	-0.099	-0.137	-0.059	0.010
38	0.800	-0.042	-0.082	-0.002	0.010	106	0.800	-0.028	-0.071	0.012	0.011
39	0.900	0.075	0.038	0.110	0.009	107	0.900	0.045	0.004	0.080	0.010
40	0.950	0.166	0.134	0.197	0.008	108	0.950	0.105	0.071	0.135	0.008

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
48	0.71	147.3	0.04

The data was adjusted using wind-off zero 49

Channel	x/c	Upper surface at ETA = 0.60 Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Upper surface at ETA = 0.95 Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.127	1.112	1.145	0.004	69	0.000	1.126	1.109	1.144	0.005
2	0.010	0.238	0.052	0.408	0.098	70	0.010	0.223	0.078	0.364	0.076
3	0.020	-0.069	-0.251	0.109	0.101	71	0.020	-0.080	-0.224	0.057	0.076
4	0.030	-0.201	-0.374	-0.036	0.093	72	0.030	-0.211	-0.342	-0.084	0.071
5	0.040	-0.264	-0.420	-0.112	0.085	73	0.040	-0.299	-0.418	-0.181	0.064
6	0.050	-0.240	-0.370	-0.105	0.070	74	0.050	-0.299	-0.403	-0.195	0.056
7	0.075	-0.578	-0.817	-0.381	0.115	75	0.075	-0.521	-0.639	-0.414	0.058
8	0.100	-0.521	-0.673	-0.385	0.076	76	0.100	-0.457	-0.547	-0.373	0.043
9	0.150	-0.569	-0.702	-0.449	0.065	77	0.150	-0.447	-0.519	-0.382	0.031
10	0.200	-0.555	-0.663	-0.454	0.051	78	0.200	-0.414	-0.474	-0.362	0.023
11	0.250	-0.510	-0.594	-0.433	0.038	79	0.250	-0.379	-0.428	-0.331	0.018
12	0.300	-0.461	-0.531	-0.394	0.030	80	0.300	-0.342	-0.381	-0.299	0.014
13	0.350	-0.418	-0.480	-0.359	0.024	81	0.350	-0.300	-0.336	-0.257	0.012
14	0.400	-0.369	-0.433	-0.318	0.019	82	0.400	-0.269	-0.302	-0.231	0.010
15	0.450	-0.324	-0.376	-0.277	0.016	83	0.450	-0.234	-0.266	-0.197	0.009
16	0.500	-0.282	-0.336	-0.242	0.014	84	0.500	-0.202	-0.236	-0.169	0.008
62	0.550	-0.238	-0.290	-0.200	0.012	85	0.550	-0.168	-0.201	-0.135	0.008
18	0.600	-0.202	-0.250	-0.162	0.010	86	0.600	-0.147	-0.175	-0.114	0.008
63	0.650	-0.163	-0.193	-0.131	0.008	87	0.650	-0.115	-0.146	-0.081	0.008
20	0.700	-0.119	-0.163	-0.084	0.009	88	0.700	-0.094	-0.120	-0.055	0.008
21	0.750	-0.087	-0.121	-0.053	0.009	89	0.750	-0.059	-0.087	-0.028	0.008
22	0.800	-0.045	-0.080	-0.015	0.009	90	0.800	-0.034	-0.062	0.004	0.008
66	0.850	0.014	-0.019	0.042	0.008	91	0.850	-0.002	-0.028	0.033	0.008
24	0.900	0.067	0.037	0.094	0.008	92	0.900	0.049	0.022	0.083	0.008
25	0.950	0.135	0.107	0.165	0.007	93	0.950	0.109	0.084	0.139	0.007
26	1.000	0.206	0.179	0.229	0.006	94	1.000	0.082	0.065	0.107	0.005
		Lower surface at ETA = 0.60						Lower surface at ETA = 0.95			
27	0.010	0.245	0.061	0.418	0.099	95	0.010	0.435	0.282	0.570	0.076
28	0.020	-0.064	-0.255	0.115	0.103	96	0.020	-0.067	-0.217	0.067	0.075
29	0.030	-0.203	-0.383	-0.034	0.096	97	0.030	-0.298	-0.441	-0.170	0.071
30	0.050	-0.282	-0.428	-0.140	0.078	98	0.050	-0.316	-0.430	-0.210	0.055
31	0.100	-0.530	-0.684	-0.394	0.076	99	0.100	-0.446	-0.544	-0.361	0.043
32	0.200	-0.554	-0.665	-0.451	0.050	100	0.200	-0.418	-0.477	-0.363	0.023
33	0.300	-0.469	-0.538	-0.395	0.031	101	0.300	-0.346	-0.388	-0.304	0.014
34	0.400	-0.371	-0.420	-0.318	0.019	102	0.400	-0.264	-0.294	-0.227	0.010
35	0.500	-0.283	-0.322	-0.242	0.013	103	0.500	-0.203	-0.236	-0.169	0.008
36	0.600	-0.199	-0.232	-0.164	0.010	104	0.600	-0.147	-0.175	-0.114	0.008
37	0.700	-0.119	-0.152	-0.092	0.008	105	0.700	-0.091	-0.124	-0.060	0.008
38	0.800	-0.047	-0.076	-0.015	0.007	106	0.800	-0.027	-0.061	0.003	0.009
39	0.900	0.074	0.040	0.103	0.008	107	0.900	0.043	0.009	0.070	0.008
40	0.950	0.160	0.131	0.186	0.007	108	0.950	0.103	0.074	0.129	0.007

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
49	0.00	0.0	0.03

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	-0.008	-0.016	-0.005	0.000	69	0.000	-0.014	-0.020	-0.008	0.002
2	0.010	-0.036	-0.043	-0.033	0.000	70	0.010	-0.009	-0.014	0.007	0.002
3	0.020	-0.019	-0.023	-0.015	0.000	71	0.020	0.009	0.006	0.014	0.001
4	0.030	-0.016	-0.024	-0.012	0.000	72	0.030	0.018	0.013	0.023	0.001
5	0.040	-0.008	-0.015	-0.002	0.003	73	0.040	0.015	0.011	0.021	0.002
6	0.050	0.010	0.005	0.020	0.000	74	0.050	-0.012	-0.017	-0.006	0.002
7	0.075	-0.618	-0.626	-0.610	0.004	75	0.075	0.007	0.000	0.013	0.003
8	0.100	-0.015	-0.020	-0.008	0.002	76	0.100	-0.016	-0.020	-0.010	0.002
9	0.150	-0.016	-0.020	-0.011	0.001	77	0.150	-0.004	-0.016	0.007	0.004
10	0.200	0.022	0.015	0.030	0.004	78	0.200	0.029	0.021	0.038	0.003
11	0.250	-0.025	-0.031	-0.014	0.004	79	0.250	0.020	0.013	0.025	0.002
12	0.300	0.003	-0.003	0.008	0.002	80	0.300	0.007	0.003	0.010	0.001
13	0.350	-0.017	-0.022	-0.013	0.001	81	0.350	0.023	0.016	0.033	0.003
14	0.400	-0.009	-0.013	-0.005	0.001	82	0.400	0.015	0.009	0.021	0.003
15	0.450	-0.013	-0.017	-0.009	0.001	83	0.450	-0.018	-0.022	-0.006	0.002
16	0.500	-0.016	-0.022	-0.011	0.002	84	0.500	0.004	-0.001	0.009	0.002
62	0.550	0.016	0.011	0.023	0.002	85	0.550	0.009	0.004	0.018	0.002
18	0.600	-0.016	-0.022	-0.010	0.002	86	0.600	-0.011	-0.016	-0.006	0.002
63	0.650	-0.017	-0.026	-0.010	0.002	87	0.650	0.009	0.004	0.014	0.002
20	0.700	0.016	0.009	0.021	0.002	88	0.700	-0.004	-0.011	0.020	0.002
21	0.750	-0.047	-0.058	-0.037	0.004	89	0.750	-0.001	-0.004	0.019	0.001
22	0.800	-0.016	-0.029	-0.001	0.004	90	0.800	-0.012	-0.017	0.001	0.002
66	0.850	0.019	0.011	0.025	0.003	91	0.850	-0.013	-0.017	-0.007	0.001
24	0.900	0.025	0.017	0.032	0.002	92	0.900	0.011	0.005	0.016	0.002
25	0.950	0.018	0.003	0.026	0.002	93	0.950	0.019	0.012	0.025	0.002
26	1.000	0.022	0.018	0.028	0.002	94	1.000	-0.014	-0.019	-0.008	0.002
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.003	-0.005	0.008	0.002	95	0.010	0.015	0.009	0.020	0.002
28	0.020	0.011	0.004	0.016	0.002	96	0.020	-0.018	-0.024	-0.012	0.002
29	0.030	-0.144	-0.155	-0.132	0.004	97	0.030	-0.004	-0.008	0.001	0.001
30	0.050	0.020	0.007	0.040	0.002	98	0.050	0.011	0.006	0.016	0.002
31	0.100	-0.075	-0.085	-0.069	0.002	99	0.100	0.015	0.009	0.020	0.002
32	0.200	0.012	-0.002	0.019	0.002	100	0.200	-0.018	-0.025	-0.011	0.002
33	0.300	-0.010	-0.022	-0.002	0.003	101	0.300	0.016	0.008	0.021	0.002
34	0.400	-0.021	-0.025	-0.014	0.002	102	0.400	0.011	0.005	0.016	0.001
35	0.500	0.019	-0.010	0.027	0.003	103	0.500	0.015	0.008	0.023	0.002
36	0.600	0.010	-0.015	0.019	0.003	104	0.600	-0.029	-0.036	-0.024	0.002
37	0.700	-0.020	-0.026	-0.014	0.002	105	0.700	-0.005	-0.011	0.003	0.002
38	0.800	-0.010	-0.019	-0.004	0.002	106	0.800	0.013	0.006	0.020	0.002
39	0.900	0.030	-0.056	0.043	0.004	107	0.900	-0.014	-0.018	-0.010	0.001
40	0.950	-0.009	-0.015	-0.005	0.001	108	0.950	0.017	0.013	0.021	0.001

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
58	0.00	0.0	0.02

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	-0.002	-0.011	0.005	0.001
2	0.010	-0.046	-0.057	-0.042	0.002
3	0.020	-0.009	-0.014	-0.003	0.002
4	0.030	-0.006	-0.012	-0.001	0.002
5	0.040	-0.001	-0.008	0.005	0.003
6	0.050	-0.002	-0.013	0.005	0.003
8	0.100	-0.005	-0.012	0.004	0.002
9	0.150	-0.007	-0.012	-0.002	0.002
10	0.200	0.011	0.007	0.020	0.002
11	0.250	-0.013	-0.023	-0.006	0.004
12	0.300	-0.006	-0.013	-0.001	0.002
13	0.350	-0.010	-0.013	-0.006	0.001
14	0.400	-0.002	-0.006	0.003	0.001
15	0.450	-0.004	-0.009	0.001	0.001
16	0.500	-0.008	-0.015	-0.003	0.002
62	0.550	-0.002	-0.008	0.004	0.002
18	0.600	-0.009	-0.014	-0.003	0.002
63	0.650	-0.009	-0.016	-0.003	0.002
20	0.700	0.002	-0.004	0.009	0.002
21	0.750	-0.040	-0.049	-0.029	0.003
22	0.800	-0.009	-0.018	0.001	0.003
66	0.850	0.005	-0.004	0.014	0.003
24	0.900	0.011	-0.001	0.019	0.003
25	0.950	-0.001	-0.016	0.007	0.005
26	1.000	0.010	0.004	0.015	0.002

Lower surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
27	0.010	-0.006	-0.013	-0.001	0.003
28	0.020	0.001	-0.006	0.006	0.002
30	0.050	0.006	-0.005	0.016	0.003
31	0.100	-0.090	-0.102	-0.084	0.003
32	0.200	0.003	-0.011	0.012	0.003
33	0.300	0.004	-0.007	0.013	0.002
34	0.400	-0.014	-0.021	-0.010	0.002
35	0.500	0.010	-0.010	0.019	0.003
36	0.600	0.000	-0.007	0.010	0.003
37	0.700	-0.034	-0.041	-0.028	0.002
38	0.800	-0.002	-0.008	0.010	0.002
39	0.900	0.009	-0.004	0.019	0.003
40	0.950	-0.004	-0.009	0.001	0.001

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	-0.014	-0.019	-0.008	0.002
70	0.010	-0.005	-0.011	0.007	0.003
71	0.020	0.004	0.001	0.014	0.001
72	0.030	0.013	0.008	0.018	0.001
73	0.040	0.009	0.004	0.016	0.002
74	0.050	-0.007	-0.012	0.015	0.002
75	0.075	0.003	-0.003	0.013	0.003
76	0.100	-0.012	-0.016	0.004	0.002
77	0.150	-0.001	-0.012	0.012	0.004
78	0.200	0.035	0.023	0.045	0.003
79	0.250	0.013	0.008	0.020	0.002
80	0.300	0.004	-0.001	0.008	0.001
81	0.350	0.015	0.008	0.033	0.002
82	0.400	0.009	0.003	0.020	0.003
83	0.450	-0.014	-0.019	-0.006	0.002
84	0.500	-0.001	-0.008	0.005	0.002
85	0.550	0.003	-0.002	0.018	0.002
86	0.600	-0.009	-0.015	-0.003	0.002
87	0.650	0.003	-0.002	0.009	0.002
88	0.700	0.000	-0.007	0.020	0.003
89	0.750	-0.005	-0.008	-0.002	0.001
90	0.800	-0.009	-0.015	0.001	0.002
91	0.850	-0.009	-0.013	-0.004	0.002
92	0.900	0.006	0.001	0.014	0.002
93	0.950	0.013	0.007	0.022	0.003
94	1.000	-0.008	-0.013	0.011	0.002

Lower surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
95	0.010	0.008	0.003	0.019	0.002
96	0.020	-0.012	-0.019	-0.005	0.002
97	0.030	-0.002	-0.006	0.015	0.001
98	0.050	0.008	0.003	0.013	0.002
99	0.100	0.008	0.002	0.014	0.002
100	0.200	-0.010	-0.016	-0.003	0.002
101	0.300	0.008	0.001	0.014	0.002
102	0.400	0.006	0.001	0.011	0.002
103	0.500	0.003	-0.006	0.010	0.002
104	0.600	-0.031	-0.037	-0.023	0.002
105	0.700	-0.002	-0.008	0.003	0.002
106	0.800	0.018	0.010	0.025	0.002
107	0.900	-0.011	-0.016	-0.006	0.001
108	0.950	0.013	0.009	0.018	0.002

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
62	0.67	146.1	0.05

The data was adjusted using wind-off zero 58

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.141	1.117	1.161	0.007	69	0.000	1.145	1.125	1.163	0.006
2	0.010	0.157	-0.104	0.397	0.144	70	0.010	0.219	0.014	0.413	0.109
3	0.020	-0.070	-0.331	0.176	0.146	71	0.020	-0.149	-0.347	0.044	0.107
4	0.030	-0.207	-0.451	0.025	0.135	72	0.030	-0.279	-0.463	-0.097	0.098
5	0.040	-0.283	-0.502	-0.069	0.123	73	0.040	-0.368	-0.534	-0.202	0.089
6	0.050	-0.335	-0.524	-0.149	0.107	74	0.050	-0.291	-0.437	-0.148	0.077
						75	0.075	-0.409	-0.550	-0.274	0.071
8	0.100	-0.499	-0.684	-0.321	0.099	76	0.100	-0.434	-0.547	-0.322	0.056
9	0.150	-0.538	-0.691	-0.383	0.080	77	0.150	-0.409	-0.495	-0.326	0.040
10	0.200	-0.578	-0.702	-0.448	0.063	78	0.200	-0.388	-0.451	-0.323	0.030
11	0.250	-0.486	-0.584	-0.383	0.049	79	0.250	-0.436	-0.489	-0.382	0.023
12	0.300	-0.492	-0.574	-0.405	0.040	80	0.300	-0.381	-0.425	-0.334	0.017
13	0.350	-0.396	-0.466	-0.321	0.032	81	0.350	-0.365	-0.403	-0.322	0.014
14	0.400	-0.356	-0.418	-0.295	0.026	82	0.400	-0.321	-0.356	-0.286	0.011
15	0.450	-0.309	-0.361	-0.256	0.021	83	0.450	-0.221	-0.251	-0.188	0.009
16	0.500	-0.269	-0.316	-0.221	0.017	84	0.500	-0.241	-0.268	-0.214	0.008
62	0.550	-0.298	-0.337	-0.255	0.015	85	0.550	-0.224	-0.250	-0.196	0.008
18	0.600	-0.186	-0.222	-0.149	0.012	86	0.600	-0.136	-0.160	-0.109	0.007
63	0.650	-0.156	-0.186	-0.128	0.010	87	0.650	-0.176	-0.201	-0.149	0.007
20	0.700	-0.183	-0.210	-0.152	0.009	88	0.700	-0.076	-0.106	-0.048	0.008
21	0.750	-0.085	-0.114	-0.054	0.009	89	0.750	-0.111	-0.139	-0.085	0.008
22	0.800	-0.044	-0.070	-0.017	0.009	90	0.800	-0.032	-0.064	-0.006	0.008
66	0.850	-0.060	-0.084	-0.034	0.008	91	0.850	0.005	-0.030	0.034	0.009
24	0.900	-0.003	-0.035	0.023	0.009	92	0.900	-0.009	-0.039	0.016	0.009
25	0.950	0.053	0.025	0.077	0.008	93	0.950	0.030	-0.001	0.067	0.008
26	1.000	0.163	0.142	0.184	0.006	94	1.000	0.102	0.086	0.120	0.006
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.183	-0.076	0.425	0.145	95	0.010	0.391	0.180	0.580	0.108
28	0.020	-0.139	-0.401	0.111	0.148	96	0.020	-0.064	-0.275	0.124	0.106
						97	0.030	-0.234	-0.428	-0.060	0.098
30	0.050	-0.369	-0.569	-0.174	0.113	98	0.050	-0.357	-0.515	-0.215	0.077
31	0.100	-0.586	-0.768	-0.413	0.099	99	0.100	-0.507	-0.628	-0.401	0.055
32	0.200	-0.584	-0.714	-0.465	0.062	100	0.200	-0.370	-0.443	-0.299	0.029
33	0.300	-0.431	-0.530	-0.344	0.039	101	0.300	-0.410	-0.458	-0.357	0.018
34	0.400	-0.353	-0.422	-0.285	0.026	102	0.400	-0.313	-0.346	-0.270	0.011
35	0.500	-0.338	-0.385	-0.281	0.017	103	0.500	-0.275	-0.307	-0.244	0.008
36	0.600	-0.250	-0.288	-0.207	0.012	104	0.600	-0.124	-0.147	-0.100	0.007
37	0.700	-0.178	-0.208	-0.143	0.010	105	0.700	-0.090	-0.117	-0.064	0.008
38	0.800	-0.036	-0.061	-0.010	0.008	106	0.800	-0.038	-0.066	-0.010	0.009
39	0.900	-0.021	-0.065	0.004	0.008	107	0.900	0.046	0.014	0.072	0.009
40	0.950	0.157	0.135	0.185	0.008	108	0.950	0.063	0.038	0.087	0.008

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
67	0.61	144.3	0.05

The data was adjusted using wind-off zero 58

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.113	1.092	1.128	0.006	69	0.000	1.118	1.097	1.133	0.005
2	0.010	0.152	-0.076	0.362	0.127	70	0.010	0.184	0.002	0.342	0.093
3	0.020	-0.110	-0.324	0.101	0.124	71	0.020	-0.147	-0.317	0.003	0.089
4	0.030	-0.236	-0.433	-0.045	0.114	72	0.030	-0.267	-0.421	-0.128	0.079
5	0.040	-0.303	-0.484	-0.129	0.104	73	0.040	-0.347	-0.486	-0.227	0.071
6	0.050	-0.315	-0.472	-0.164	0.092	74	0.050	-0.302	-0.421	-0.191	0.063
						75	0.075	-0.390	-0.490	-0.294	0.053
8	0.100	-0.479	-0.613	-0.351	0.075	76	0.100	-0.416	-0.498	-0.336	0.043
9	0.150	-0.505	-0.613	-0.400	0.059	77	0.150	-0.394	-0.461	-0.333	0.030
10	0.200	-0.517	-0.608	-0.431	0.047	78	0.200	-0.374	-0.424	-0.322	0.023
11	0.250	-0.458	-0.532	-0.386	0.037	79	0.250	-0.390	-0.432	-0.350	0.017
12	0.300	-0.442	-0.509	-0.379	0.031	80	0.300	-0.345	-0.381	-0.311	0.014
13	0.350	-0.377	-0.433	-0.323	0.026	81	0.350	-0.323	-0.356	-0.291	0.011
14	0.400	-0.340	-0.388	-0.291	0.021	82	0.400	-0.289	-0.318	-0.260	0.009
15	0.450	-0.298	-0.343	-0.255	0.017	83	0.450	-0.214	-0.243	-0.189	0.007
16	0.500	-0.263	-0.302	-0.225	0.015	84	0.500	-0.217	-0.244	-0.195	0.006
62	0.550	-0.263	-0.300	-0.228	0.013	85	0.550	-0.197	-0.221	-0.171	0.006
18	0.600	-0.188	-0.223	-0.158	0.011	86	0.600	-0.135	-0.156	-0.114	0.006
63	0.650	-0.157	-0.185	-0.133	0.008	87	0.650	-0.150	-0.172	-0.124	0.006
20	0.700	-0.156	-0.186	-0.129	0.007	88	0.700	-0.082	-0.102	-0.057	0.006
21	0.750	-0.088	-0.121	-0.062	0.008	89	0.750	-0.092	-0.113	-0.063	0.006
22	0.800	-0.050	-0.075	-0.026	0.008	90	0.800	-0.035	-0.057	-0.010	0.007
66	0.850	-0.035	-0.063	-0.010	0.007	91	0.850	-0.001	-0.023	0.024	0.007
24	0.900	0.020	-0.005	0.043	0.007	92	0.900	0.008	-0.015	0.030	0.007
25	0.950	0.079	0.051	0.104	0.006	93	0.950	0.053	0.033	0.076	0.007
26	1.000	0.176	0.155	0.194	0.005	94	1.000	0.085	0.072	0.100	0.004
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.166	-0.060	0.377	0.128	95	0.010	0.385	0.219	0.540	0.092
28	0.020	-0.143	-0.367	0.071	0.128	96	0.020	-0.090	-0.246	0.063	0.088
						97	0.030	-0.255	-0.398	-0.121	0.080
30	0.050	-0.347	-0.512	-0.188	0.095	98	0.050	-0.337	-0.447	-0.230	0.063
31	0.100	-0.523	-0.658	-0.392	0.076	99	0.100	-0.456	-0.535	-0.378	0.043
32	0.200	-0.521	-0.614	-0.432	0.047	100	0.200	-0.361	-0.410	-0.313	0.023
33	0.300	-0.414	-0.479	-0.351	0.031	101	0.300	-0.364	-0.401	-0.328	0.014
34	0.400	-0.338	-0.389	-0.291	0.022	102	0.400	-0.279	-0.307	-0.251	0.009
35	0.500	-0.301	-0.339	-0.265	0.015	103	0.500	-0.239	-0.263	-0.215	0.007
36	0.600	-0.222	-0.254	-0.191	0.011	104	0.600	-0.123	-0.144	-0.105	0.006
37	0.700	-0.150	-0.176	-0.125	0.008	105	0.700	-0.090	-0.111	-0.068	0.006
38	0.800	-0.047	-0.070	-0.026	0.006	106	0.800	-0.038	-0.064	-0.015	0.007
39	0.900	0.010	-0.011	0.032	0.006	107	0.900	0.040	0.016	0.061	0.007
40	0.950	0.149	0.131	0.171	0.005	108	0.950	0.071	0.049	0.089	0.006

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
74	0.51	141.5	0.06

The data was adjusted using wind-off zero 58

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.069	1.032	1.092	0.011	69	0.000	1.081	1.054	1.101	0.008
2	0.010	0.117	-0.238	0.427	0.201	70	0.010	0.137	-0.119	0.371	0.143
3	0.020	-0.146	-0.471	0.154	0.188	71	0.020	-0.158	-0.389	0.059	0.130
4	0.030	-0.257	-0.554	0.011	0.168	72	0.030	-0.264	-0.464	-0.072	0.115
5	0.040	-0.312	-0.573	-0.071	0.151	73	0.040	-0.333	-0.509	-0.160	0.101
6	0.050	-0.304	-0.535	-0.088	0.133	74	0.050	-0.301	-0.455	-0.152	0.089
						75	0.075	-0.359	-0.480	-0.238	0.070
8	0.100	-0.448	-0.615	-0.279	0.101	76	0.100	-0.386	-0.490	-0.284	0.059
9	0.150	-0.461	-0.593	-0.331	0.079	77	0.150	-0.367	-0.447	-0.292	0.041
10	0.200	-0.459	-0.569	-0.351	0.064	78	0.200	-0.349	-0.408	-0.289	0.031
11	0.250	-0.417	-0.506	-0.330	0.051	79	0.250	-0.350	-0.398	-0.301	0.024
12	0.300	-0.392	-0.468	-0.315	0.043	80	0.300	-0.311	-0.351	-0.270	0.018
13	0.350	-0.345	-0.409	-0.277	0.036	81	0.350	-0.289	-0.322	-0.252	0.015
14	0.400	-0.313	-0.369	-0.256	0.030	82	0.400	-0.258	-0.286	-0.229	0.011
15	0.450	-0.277	-0.326	-0.227	0.025	83	0.450	-0.198	-0.220	-0.172	0.008
16	0.500	-0.245	-0.286	-0.201	0.021	84	0.500	-0.194	-0.214	-0.172	0.006
62	0.550	-0.234	-0.273	-0.193	0.018	85	0.550	-0.172	-0.191	-0.156	0.006
18	0.600	-0.178	-0.212	-0.144	0.014	86	0.600	-0.126	-0.141	-0.111	0.005
63	0.650	-0.148	-0.177	-0.119	0.011	87	0.650	-0.130	-0.148	-0.114	0.005
20	0.700	-0.136	-0.162	-0.110	0.010	88	0.700	-0.079	-0.098	-0.063	0.005
21	0.750	-0.083	-0.110	-0.062	0.008	89	0.750	-0.078	-0.098	-0.060	0.006
22	0.800	-0.049	-0.075	-0.024	0.008	90	0.800	-0.033	-0.054	-0.015	0.006
66	0.850	-0.022	-0.046	-0.003	0.006	91	0.850	-0.002	-0.024	0.017	0.007
24	0.900	0.030	0.008	0.052	0.006	92	0.900	0.014	-0.008	0.032	0.007
25	0.950	0.087	0.067	0.106	0.005	93	0.950	0.061	0.039	0.077	0.007
26	1.000	0.181	0.163	0.193	0.004	94	1.000	0.075	0.062	0.089	0.004
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.130	-0.220	0.440	0.200	95	0.010	0.357	0.101	0.586	0.140
28	0.020	-0.157	-0.484	0.143	0.191	96	0.020	-0.106	-0.337	0.109	0.128
						97	0.030	-0.280	-0.486	-0.091	0.114
30	0.050	-0.327	-0.556	-0.114	0.136	98	0.050	-0.312	-0.470	-0.168	0.087
31	0.100	-0.463	-0.634	-0.302	0.101	99	0.100	-0.407	-0.512	-0.308	0.058
32	0.200	-0.459	-0.571	-0.355	0.063	100	0.200	-0.335	-0.395	-0.277	0.031
33	0.300	-0.381	-0.459	-0.307	0.043	101	0.300	-0.324	-0.365	-0.286	0.018
34	0.400	-0.309	-0.371	-0.254	0.030	102	0.400	-0.249	-0.278	-0.224	0.012
35	0.500	-0.266	-0.316	-0.222	0.021	103	0.500	-0.207	-0.229	-0.188	0.007
36	0.600	-0.197	-0.231	-0.163	0.014	104	0.600	-0.114	-0.128	-0.101	0.004
37	0.700	-0.127	-0.153	-0.101	0.010	105	0.700	-0.085	-0.102	-0.070	0.005
38	0.800	-0.049	-0.069	-0.026	0.006	106	0.800	-0.038	-0.058	-0.017	0.007
39	0.900	0.023	0.002	0.045	0.005	107	0.900	0.037	0.013	0.060	0.008
40	0.950	0.142	0.126	0.158	0.004	108	0.950	0.072	0.054	0.089	0.007

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
79	0.45	137.4	0.06

The data was adjusted using wind-off zero 58

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.047	1.019	1.065	0.008	69	0.000	1.058	1.034	1.073	0.006
2	0.010	0.121	-0.178	0.385	0.165	70	0.010	0.118	-0.098	0.321	0.117
3	0.020	-0.159	-0.425	0.089	0.151	71	0.020	-0.150	-0.342	0.032	0.105
4	0.030	-0.263	-0.501	-0.041	0.134	72	0.030	-0.250	-0.415	-0.089	0.091
5	0.040	-0.312	-0.523	-0.115	0.120	73	0.040	-0.314	-0.456	-0.170	0.080
6	0.050	-0.281	-0.469	-0.101	0.106	74	0.050	-0.302	-0.430	-0.175	0.070
						75	0.075	-0.354	-0.455	-0.252	0.055
8	0.100	-0.436	-0.573	-0.293	0.079	76	0.100	-0.377	-0.463	-0.292	0.046
9	0.150	-0.445	-0.554	-0.336	0.062	77	0.150	-0.361	-0.425	-0.295	0.033
10	0.200	-0.427	-0.513	-0.333	0.050	78	0.200	-0.343	-0.393	-0.290	0.024
11	0.250	-0.403	-0.475	-0.325	0.040	79	0.250	-0.322	-0.360	-0.284	0.019
12	0.300	-0.364	-0.426	-0.297	0.034	80	0.300	-0.290	-0.320	-0.257	0.015
13	0.350	-0.336	-0.391	-0.281	0.028	81	0.350	-0.262	-0.289	-0.231	0.012
14	0.400	-0.305	-0.350	-0.258	0.024	82	0.400	-0.237	-0.258	-0.211	0.009
15	0.450	-0.272	-0.313	-0.230	0.020	83	0.450	-0.196	-0.216	-0.172	0.007
16	0.500	-0.242	-0.278	-0.205	0.017	84	0.500	-0.178	-0.196	-0.157	0.005
62	0.550	-0.211	-0.242	-0.174	0.014	85	0.550	-0.155	-0.168	-0.138	0.005
18	0.600	-0.179	-0.208	-0.150	0.012	86	0.600	-0.127	-0.140	-0.111	0.004
63	0.650	-0.149	-0.172	-0.124	0.009	87	0.650	-0.113	-0.125	-0.100	0.004
20	0.700	-0.118	-0.137	-0.090	0.008	88	0.700	-0.084	-0.100	-0.070	0.005
21	0.750	-0.086	-0.108	-0.066	0.007	89	0.750	-0.064	-0.079	-0.049	0.005
22	0.800	-0.051	-0.075	-0.030	0.007	90	0.800	-0.035	-0.052	-0.021	0.005
66	0.850	-0.007	-0.028	0.008	0.005	91	0.850	-0.006	-0.022	0.009	0.006
24	0.900	0.045	0.026	0.059	0.005	92	0.900	0.024	0.008	0.038	0.006
25	0.950	0.101	0.087	0.120	0.005	93	0.950	0.073	0.056	0.087	0.005
26	1.000	0.187	0.173	0.197	0.003	94	1.000	0.065	0.054	0.080	0.004
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.125	-0.173	0.393	0.164	95	0.010	0.351	0.135	0.546	0.114
28	0.020	-0.151	-0.424	0.107	0.154	96	0.020	-0.116	-0.309	0.059	0.103
						97	0.030	-0.290	-0.460	-0.135	0.091
30	0.050	-0.304	-0.496	-0.120	0.108	98	0.050	-0.293	-0.421	-0.173	0.069
31	0.100	-0.426	-0.563	-0.291	0.078	99	0.100	-0.375	-0.456	-0.292	0.046
32	0.200	-0.426	-0.514	-0.340	0.049	100	0.200	-0.333	-0.379	-0.285	0.025
33	0.300	-0.375	-0.438	-0.314	0.034	101	0.300	-0.296	-0.327	-0.262	0.015
34	0.400	-0.302	-0.347	-0.255	0.024	102	0.400	-0.228	-0.251	-0.205	0.009
35	0.500	-0.242	-0.280	-0.206	0.017	103	0.500	-0.181	-0.200	-0.164	0.006
36	0.600	-0.178	-0.207	-0.150	0.013	104	0.600	-0.115	-0.130	-0.102	0.004
37	0.700	-0.108	-0.133	-0.088	0.008	105	0.700	-0.085	-0.100	-0.073	0.004
38	0.800	-0.055	-0.074	-0.034	0.005	106	0.800	-0.041	-0.060	-0.021	0.006
39	0.900	0.043	0.026	0.059	0.006	107	0.900	0.033	0.014	0.050	0.007
40	0.950	0.136	0.120	0.147	0.003	108	0.950	0.077	0.061	0.091	0.006

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
84	0.39	137.3	0.07

The data was adjusted using wind-off zero 58

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.019	0.965	1.056	0.022
2	0.010	0.094	-0.339	0.475	0.260
3	0.020	-0.164	-0.547	0.190	0.236
4	0.030	-0.263	-0.600	0.053	0.208
5	0.040	-0.310	-0.606	-0.029	0.185
6	0.050	-0.290	-0.558	-0.041	0.163
8	0.100	-0.419	-0.611	-0.231	0.121
9	0.150	-0.425	-0.572	-0.276	0.094
10	0.200	-0.417	-0.538	-0.296	0.076
11	0.250	-0.384	-0.484	-0.281	0.062
12	0.300	-0.355	-0.438	-0.269	0.052
13	0.350	-0.318	-0.390	-0.244	0.044
14	0.400	-0.290	-0.352	-0.228	0.037
15	0.450	-0.258	-0.311	-0.204	0.031
16	0.500	-0.228	-0.275	-0.183	0.026
62	0.550	-0.211	-0.252	-0.169	0.022
18	0.600	-0.166	-0.204	-0.130	0.018
63	0.650	-0.138	-0.167	-0.107	0.015
20	0.700	-0.121	-0.152	-0.088	0.012
21	0.750	-0.078	-0.104	-0.054	0.009
22	0.800	-0.043	-0.066	-0.021	0.008
66	0.850	-0.015	-0.038	0.003	0.005
24	0.900	0.035	0.009	0.050	0.005
25	0.950	0.089	0.076	0.105	0.004
26	1.000	0.183	0.170	0.193	0.004

Lower surface at ETA = 0.60

27	0.010	0.102	-0.337	0.483	0.259
28	0.020	-0.162	-0.561	0.199	0.240
30	0.050	-0.305	-0.577	-0.046	0.166
31	0.100	-0.415	-0.605	-0.231	0.120
32	0.200	-0.415	-0.537	-0.296	0.075
33	0.300	-0.355	-0.441	-0.270	0.052
34	0.400	-0.285	-0.348	-0.222	0.037
35	0.500	-0.240	-0.290	-0.192	0.027
36	0.600	-0.177	-0.213	-0.142	0.019
37	0.700	-0.106	-0.135	-0.079	0.012
38	0.800	-0.048	-0.069	-0.025	0.008
39	0.900	0.029	0.015	0.046	0.005
40	0.950	0.136	0.123	0.147	0.003

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.041	1.002	1.065	0.012
70	0.010	0.106	-0.205	0.392	0.183
71	0.020	-0.162	-0.429	0.097	0.162
72	0.030	-0.256	-0.485	-0.031	0.140
73	0.040	-0.317	-0.519	-0.117	0.124
74	0.050	-0.292	-0.468	-0.118	0.108
75	0.075	-0.338	-0.476	-0.204	0.084
76	0.100	-0.360	-0.477	-0.247	0.071
77	0.150	-0.344	-0.431	-0.259	0.050
78	0.200	-0.329	-0.396	-0.263	0.038
79	0.250	-0.319	-0.371	-0.268	0.029
80	0.300	-0.284	-0.327	-0.243	0.022
81	0.350	-0.263	-0.296	-0.227	0.018
82	0.400	-0.236	-0.264	-0.209	0.013
83	0.450	-0.183	-0.206	-0.159	0.010
84	0.500	-0.175	-0.194	-0.156	0.008
85	0.550	-0.155	-0.170	-0.138	0.006
86	0.600	-0.118	-0.130	-0.105	0.004
87	0.650	-0.115	-0.129	-0.102	0.004
88	0.700	-0.076	-0.092	-0.060	0.005
89	0.750	-0.066	-0.083	-0.052	0.005
90	0.800	-0.031	-0.049	-0.013	0.006
91	0.850	-0.001	-0.020	0.016	0.007
92	0.900	0.017	-0.002	0.033	0.007
93	0.950	0.060	0.042	0.076	0.007
94	1.000	0.070	0.057	0.082	0.004

Lower surface at ETA = 0.95

95	0.010	0.325	0.016	0.600	0.179
96	0.020	-0.113	-0.381	0.141	0.160
97	0.030	-0.360	-0.593	-0.140	0.139
98	0.050	-0.290	-0.463	-0.120	0.107
99	0.100	-0.370	-0.482	-0.253	0.070
100	0.200	-0.312	-0.377	-0.243	0.038
101	0.300	-0.294	-0.335	-0.255	0.023
102	0.400	-0.226	-0.253	-0.199	0.014
103	0.500	-0.184	-0.206	-0.166	0.008
104	0.600	-0.103	-0.116	-0.089	0.004
105	0.700	-0.080	-0.097	-0.065	0.004
106	0.800	-0.041	-0.061	-0.021	0.007
107	0.900	0.037	0.013	0.054	0.008
108	0.950	0.071	0.052	0.088	0.007

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
94	0.30	131.4	0.07

The data was adjusted using wind-off zero 95

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.003	0.956	1.033	0.017	69	0.000	1.012	0.979	1.033	0.011
2	0.010	0.074	-0.306	0.441	0.220	70	0.010	0.082	-0.188	0.336	0.155
3	0.020	-0.174	-0.507	0.162	0.197	71	0.020	-0.156	-0.386	0.069	0.135
4	0.030	-0.265	-0.554	0.033	0.172	72	0.030	-0.243	-0.441	-0.046	0.116
5	0.040	-0.307	-0.563	-0.044	0.153	73	0.040	-0.298	-0.472	-0.125	0.102
6	0.050	-0.277	-0.502	-0.042	0.134	74	0.050	-0.294	-0.443	-0.141	0.089
7	0.075	-0.392	-0.600	-0.185	0.116	75	0.075	-0.332	-0.447	-0.215	0.069
8	0.100	-0.409	-0.575	-0.236	0.099	76	0.100	-0.357	-0.456	-0.257	0.058
9	0.150	-0.412	-0.539	-0.279	0.077	77	0.150	-0.344	-0.414	-0.273	0.041
10	0.200	-0.395	-0.498	-0.285	0.062	78	0.200	-0.318	-0.374	-0.260	0.032
11	0.250	-0.373	-0.458	-0.282	0.051	79	0.250	-0.293	-0.339	-0.249	0.024
12	0.300	-0.336	-0.409	-0.261	0.043	80	0.300	-0.265	-0.301	-0.230	0.019
13	0.350	-0.309	-0.371	-0.245	0.036	81	0.350	-0.235	-0.265	-0.206	0.015
14	0.400	-0.280	-0.334	-0.224	0.031	82	0.400	-0.216	-0.239	-0.194	0.011
15	0.450	-0.251	-0.300	-0.202	0.026	83	0.450	-0.186	-0.205	-0.165	0.009
16	0.500	-0.222	-0.265	-0.182	0.022	84	0.500	-0.164	-0.180	-0.145	0.007
62	0.550	-0.197	-0.233	-0.159	0.019	85	0.550	-0.140	-0.158	-0.125	0.005
18	0.600	-0.164	-0.198	-0.131	0.016	86	0.600	-0.118	-0.131	-0.104	0.004
63	0.650	-0.134	-0.163	-0.106	0.013	87	0.650	-0.101	-0.114	-0.086	0.004
20	0.700	-0.112	-0.138	-0.088	0.011	88	0.700	-0.079	-0.091	-0.061	0.005
21	0.750	-0.077	-0.105	-0.053	0.010	89	0.750	-0.056	-0.069	-0.038	0.004
22	0.800	-0.047	-0.070	-0.028	0.007	90	0.800	-0.034	-0.049	-0.014	0.005
66	0.850	-0.009	-0.040	0.008	0.005	91	0.850	-0.005	-0.022	0.014	0.006
24	0.900	0.037	0.021	0.053	0.007	92	0.900	0.027	0.010	0.048	0.006
25	0.950	0.096	0.084	0.112	0.004	93	0.950	0.076	0.059	0.092	0.006
26	1.000	0.185	0.175	0.195	0.003	94	1.000	0.051	0.039	0.063	0.003
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.107	-0.299	0.441	0.217	95	0.010	0.314	0.049	0.556	0.150
28	0.020	-0.148	-0.511	0.169	0.200	96	0.020	-0.115	-0.346	0.102	0.133
29	0.030	-0.237	-0.546	0.042	0.174	97	0.030	-0.218	-0.416	-0.031	0.115
30	0.050	-0.280	-0.515	-0.062	0.136	98	0.050	-0.269	-0.418	-0.125	0.088
31	0.100	-0.388	-0.557	-0.228	0.098	99	0.100	-0.338	-0.435	-0.239	0.058
32	0.200	-0.383	-0.487	-0.280	0.062	100	0.200	-0.310	-0.368	-0.250	0.032
33	0.300	-0.339	-0.414	-0.264	0.043	101	0.300	-0.263	-0.301	-0.227	0.019
34	0.400	-0.275	-0.331	-0.220	0.031	102	0.400	-0.207	-0.231	-0.182	0.012
35	0.500	-0.221	-0.266	-0.178	0.023	103	0.500	-0.164	-0.182	-0.147	0.007
36	0.600	-0.164	-0.198	-0.128	0.017	104	0.600	-0.112	-0.125	-0.099	0.004
37	0.700	-0.105	-0.131	-0.078	0.012	105	0.700	-0.078	-0.090	-0.063	0.004
38	0.800	-0.044	-0.066	-0.025	0.007	106	0.800	-0.030	-0.047	-0.011	0.007
39	0.900	0.039	0.009	0.058	0.006	107	0.900	0.032	0.012	0.049	0.007
40	0.950	0.135	0.123	0.146	0.003	108	0.950	0.078	0.060	0.094	0.006

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
95	0.00	0.0	0.03

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.030	0.025	0.035	0.001	69	0.000	0.028	0.022	0.036	0.003
2	0.010	-0.056	-0.065	-0.049	0.003	70	0.010	0.028	0.021	0.033	0.002
3	0.020	0.030	0.025	0.041	0.002	71	0.020	-0.033	-0.037	-0.030	0.001
4	0.030	0.025	0.021	0.032	0.001	72	0.030	-0.030	-0.035	-0.025	0.001
5	0.040	0.018	0.012	0.022	0.001	73	0.040	-0.040	-0.046	-0.034	0.002
6	0.050	-0.058	-0.065	-0.052	0.002	74	0.050	0.026	0.018	0.032	0.002
7	0.075	0.058	0.053	0.066	0.002	75	0.075	0.035	0.030	0.041	0.002
8	0.100	0.023	0.014	0.028	0.002	76	0.100	0.017	0.010	0.022	0.002
9	0.150	0.016	0.010	0.024	0.001	77	0.150	0.037	0.028	0.045	0.003
10	0.200	-0.024	-0.030	-0.018	0.002	78	0.200	0.051	0.045	0.060	0.003
11	0.250	0.012	0.001	0.018	0.002	79	0.250	-0.042	-0.048	-0.036	0.002
12	0.300	-0.038	-0.042	-0.033	0.002	80	0.300	-0.029	-0.033	-0.024	0.001
13	0.350	0.016	0.010	0.020	0.001	81	0.350	-0.049	-0.054	-0.029	0.002
14	0.400	0.017	0.013	0.022	0.002	82	0.400	-0.036	-0.042	-0.029	0.002
15	0.450	0.019	0.012	0.023	0.002	83	0.450	0.017	0.013	0.030	0.002
16	0.500	0.017	0.011	0.026	0.001	84	0.500	-0.024	-0.028	-0.019	0.001
62	0.550	-0.046	-0.057	-0.041	0.002	85	0.550	-0.035	-0.040	-0.030	0.002
18	0.600	0.024	0.018	0.028	0.002	86	0.600	0.019	0.014	0.030	0.002
63	0.650	0.015	0.007	0.026	0.002	87	0.650	-0.038	-0.043	-0.015	0.002
20	0.700	-0.043	-0.050	-0.035	0.003	88	0.700	0.032	0.026	0.038	0.002
21	0.750	-0.017	-0.027	-0.005	0.004	89	0.750	-0.034	-0.038	-0.025	0.002
22	0.800	0.016	0.001	0.027	0.004	90	0.800	0.014	0.009	0.018	0.002
66	0.850	-0.044	-0.052	-0.033	0.003	91	0.850	0.019	0.014	0.025	0.002
24	0.900	-0.040	-0.049	-0.032	0.002	92	0.900	-0.030	-0.035	-0.025	0.002
25	0.950	-0.061	-0.071	-0.052	0.003	93	0.950	-0.046	-0.053	-0.038	0.003
26	1.000	-0.014	-0.022	-0.009	0.002	94	1.000	0.038	0.031	0.061	0.002
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	-0.025	-0.030	-0.017	0.001	95	0.010	-0.019	-0.029	-0.010	0.004
28	0.020	-0.031	-0.040	-0.026	0.002	96	0.020	0.025	0.020	0.031	0.002
29	0.030	-0.075	-0.083	-0.064	0.003	97	0.030	0.017	0.012	0.022	0.002
30	0.050	-0.047	-0.061	-0.038	0.004	98	0.050	-0.027	-0.033	-0.014	0.003
31	0.100	-0.133	-0.141	-0.126	0.002	99	0.100	-0.049	-0.054	-0.042	0.002
32	0.200	-0.042	-0.051	-0.028	0.002	100	0.200	0.039	0.034	0.049	0.002
33	0.300	0.033	0.018	0.050	0.003	101	0.300	-0.054	-0.060	-0.045	0.003
34	0.400	0.011	0.006	0.020	0.002	102	0.400	-0.031	-0.037	-0.026	0.002
35	0.500	-0.036	-0.050	-0.028	0.005	103	0.500	-0.054	-0.060	-0.047	0.002
36	0.600	-0.036	-0.046	-0.026	0.004	104	0.600	0.009	0.004	0.015	0.002
37	0.700	-0.054	-0.060	-0.045	0.002	105	0.700	0.014	0.010	0.018	0.001
38	0.800	0.021	0.014	0.036	0.004	106	0.800	0.015	0.008	0.022	0.002
39	0.900	-0.064	-0.081	-0.056	0.003	107	0.900	0.014	0.009	0.020	0.002
40	0.950	0.010	0.006	0.019	0.002	108	0.950	-0.008	-0.011	-0.004	0.001

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
110	0.00	0.0	0.00

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	-0.006	-0.018	0.004	0.001	69	0.000	-0.008	-0.014	0.015	0.002
2	0.010	0.008	0.002	0.013	0.002	70	0.010	-0.007	-0.015	0.000	0.003
3	0.020	-0.007	-0.014	0.001	0.001	71	0.020	0.007	0.003	0.010	0.001
4	0.030	-0.007	-0.012	0.001	0.002	72	0.030	0.007	0.001	0.011	0.001
5	0.040	-0.005	-0.011	0.003	0.003	73	0.040	0.009	0.002	0.014	0.002
6	0.050	0.013	0.004	0.023	0.005	74	0.050	-0.007	-0.014	-0.001	0.003
						75	0.075	-0.008	-0.017	-0.002	0.002
8	0.100	-0.007	-0.014	0.008	0.003	76	0.100	-0.007	-0.014	0.000	0.002
9	0.150	-0.004	-0.010	0.000	0.001	77	0.150	-0.008	-0.019	0.002	0.003
10	0.200	0.006	0.001	0.012	0.002	78	0.200	-0.007	-0.016	0.002	0.003
11	0.250	-0.004	-0.012	0.001	0.002	79	0.250	0.015	0.009	0.041	0.002
12	0.300	0.006	0.001	0.012	0.002	80	0.300	0.006	0.002	0.010	0.001
13	0.350	-0.004	-0.010	-0.001	0.001	81	0.350	0.011	0.004	0.017	0.002
14	0.400	-0.005	-0.012	0.003	0.003	82	0.400	0.009	0.004	0.035	0.002
15	0.450	-0.004	-0.009	0.000	0.001	83	0.450	-0.006	-0.011	-0.001	0.002
16	0.500	-0.005	-0.009	-0.001	0.001	84	0.500	0.006	0.001	0.026	0.001
62	0.550	0.008	-0.001	0.015	0.002	85	0.550	0.008	0.001	0.018	0.003
18	0.600	0.001	-0.008	0.006	0.002	86	0.600	-0.006	-0.011	-0.001	0.002
63	0.650	-0.004	-0.010	0.005	0.002	87	0.650	0.009	0.003	0.014	0.002
20	0.700	0.010	0.002	0.019	0.004	88	0.700	-0.008	-0.016	-0.003	0.002
21	0.750	-0.003	-0.014	0.008	0.005	89	0.750	0.006	0.002	0.022	0.002
22	0.800	-0.004	-0.027	0.027	0.009	90	0.800	-0.004	-0.010	0.000	0.003
66	0.850	0.010	0.000	0.019	0.003	91	0.850	-0.005	-0.010	0.008	0.002
24	0.900	0.008	-0.012	0.021	0.003	92	0.900	0.007	0.003	0.010	0.001
25	0.950	0.010	-0.005	0.027	0.003	93	0.950	0.012	0.004	0.019	0.004
26	1.000	0.005	-0.002	0.010	0.003	94	1.000	-0.010	-0.016	0.007	0.003
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.004	0.001	0.009	0.001	95	0.010	0.005	0.000	0.009	0.001
28	0.020	0.006	-0.004	0.012	0.002	96	0.020	-0.007	-0.014	-0.001	0.003
						97	0.030	-0.016	-0.020	-0.012	0.001
30	0.050	0.010	-0.004	0.019	0.002	98	0.050	0.007	0.002	0.012	0.002
31	0.100	0.010	0.003	0.019	0.003	99	0.100	0.011	0.004	0.034	0.002
32	0.200	0.007	-0.006	0.015	0.002	100	0.200	-0.011	-0.017	0.011	0.002
33	0.300	-0.009	-0.022	0.003	0.006	101	0.300	0.012	0.006	0.039	0.002
34	0.400	-0.005	-0.010	0.005	0.002	102	0.400	0.008	0.003	0.012	0.002
35	0.500	0.008	-0.001	0.021	0.002	103	0.500	0.013	0.005	0.026	0.004
36	0.600	0.006	-0.001	0.020	0.002	104	0.600	-0.007	-0.014	0.000	0.002
37	0.700	0.008	-0.001	0.014	0.002	105	0.700	-0.005	-0.010	0.005	0.002
38	0.800	-0.005	-0.013	0.000	0.002	106	0.800	-0.003	-0.011	0.009	0.004
39	0.900	0.013	0.003	0.031	0.005	107	0.900	-0.005	-0.009	0.007	0.002
40	0.950	-0.003	-0.012	0.003	0.001	108	0.950	0.004	0.000	0.012	0.002

TABLE 7. - Continued

Tab	Mach	q (psf)	Mean α (deg)
129	0.80	147.2	0.06

The data was adjusted using wind-off zero 110

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.106	1.087	1.122	0.005	69	0.000	1.104	1.084	1.122	0.005
2	0.010	0.446	0.331	0.558	0.050	70	0.010	0.228	0.132	0.334	0.044
3	0.020	-0.065	-0.178	0.054	0.050	71	0.020	0.071	-0.026	0.177	0.044
4	0.030	-0.185	-0.285	-0.079	0.046	72	0.030	-0.067	-0.157	0.035	0.042
5	0.040	-0.223	-0.311	-0.129	0.039	73	0.040	-0.150	-0.231	-0.052	0.036
6	0.050	0.008	-0.063	0.083	0.033	74	0.050	-0.316	-0.380	-0.240	0.028
						75	0.075	-0.749	-0.867	-0.531	0.070
8	0.100	-0.589	-0.838	-0.489	0.080	76	0.100	-0.566	-0.800	-0.474	0.056
9	0.150	-0.698	-0.777	-0.607	0.029	77	0.150	-0.638	-0.713	-0.541	0.026
10	0.200	-0.634	-0.700	-0.528	0.034	78	0.200	-0.612	-0.695	-0.506	0.033
11	0.250	-0.828	-0.898	-0.617	0.041	79	0.250	-0.343	-0.490	-0.242	0.040
12	0.300	-0.699	-0.804	-0.379	0.071	80	0.300	-0.345	-0.451	-0.275	0.025
13	0.350	-0.701	-0.977	-0.428	0.152	81	0.350	-0.226	-0.320	-0.165	0.020
14	0.400	-0.442	-0.865	-0.355	0.048	82	0.400	-0.202	-0.275	-0.149	0.016
15	0.450	-0.390	-0.505	-0.317	0.023	83	0.450	-0.316	-0.371	-0.269	0.014
16	0.500	-0.355	-0.425	-0.286	0.019	84	0.500	-0.147	-0.196	-0.102	0.013
62	0.550	-0.111	-0.168	-0.044	0.017	85	0.550	-0.098	-0.144	-0.056	0.012
18	0.600	-0.265	-0.317	-0.212	0.014	86	0.600	-0.215	-0.260	-0.174	0.011
63	0.650	-0.211	-0.243	-0.176	0.010	87	0.650	-0.012	-0.053	0.027	0.011
20	0.700	0.013	-0.033	0.059	0.013	88	0.700	-0.179	-0.223	-0.136	0.010
21	0.750	-0.112	-0.157	-0.063	0.011	89	0.750	0.021	-0.018	0.064	0.010
22	0.800	-0.080	-0.122	-0.031	0.012	90	0.800	-0.079	-0.118	-0.035	0.010
66	0.850	0.169	0.133	0.208	0.010	91	0.850	-0.049	-0.086	-0.010	0.010
24	0.900	0.217	0.183	0.258	0.010	92	0.900	0.144	0.112	0.181	0.009
25	0.950	0.322	0.290	0.352	0.008	93	0.950	0.254	0.222	0.288	0.008
26	1.000	0.291	0.265	0.323	0.007	94	1.000	0.013	-0.010	0.033	0.006
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.414	0.298	0.520	0.050	95	0.010	0.588	0.485	0.679	0.044
28	0.020	0.136	0.019	0.247	0.051	96	0.020	-0.068	-0.173	0.025	0.045
						97	0.030	-0.201	-0.300	-0.117	0.041
30	0.050	-0.027	-0.106	0.056	0.037	98	0.050	-0.148	-0.214	-0.079	0.030
31	0.100	-0.372	-0.624	-0.268	0.069	99	0.100	-0.366	-0.622	-0.278	0.065
32	0.200	-0.598	-0.668	-0.442	0.036	100	0.200	-0.636	-0.722	-0.538	0.031
33	0.300	-0.861	-0.970	-0.562	0.076	101	0.300	-0.285	-0.393	-0.194	0.025
34	0.400	-0.443	-0.824	-0.357	0.043	102	0.400	-0.205	-0.263	-0.140	0.016
35	0.500	-0.160	-0.221	-0.094	0.020	103	0.500	-0.080	-0.124	-0.026	0.013
36	0.600	-0.095	-0.144	-0.034	0.015	104	0.600	-0.217	-0.256	-0.172	0.012
37	0.700	0.005	-0.038	0.067	0.013	105	0.700	-0.134	-0.170	-0.094	0.011
38	0.800	-0.105	-0.144	-0.056	0.011	106	0.800	-0.070	-0.104	-0.033	0.010
39	0.900	0.290	0.260	0.324	0.009	107	0.900	0.012	-0.022	0.044	0.009
40	0.950	0.173	0.145	0.209	0.008	108	0.950	0.174	0.147	0.201	0.008

TABLE 7. - Concluded

Tab	Mach	q (psf)	Mean α (deg)
134	0.82	159.5	0.07

The data was adjusted using wind-off zero 110

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.112	1.096	1.127	0.005	69	0.000	1.110	1.092	1.129	0.005
2	0.010	0.490	0.400	0.581	0.036	70	0.010	0.244	0.160	0.326	0.032
3	0.020	-0.043	-0.130	0.051	0.036	71	0.020	0.102	0.021	0.183	0.032
4	0.030	-0.162	-0.240	-0.080	0.033	72	0.030	-0.036	-0.115	0.041	0.030
5	0.040	-0.194	-0.258	-0.124	0.028	73	0.040	-0.116	-0.187	-0.043	0.026
6	0.050	0.062	0.006	0.120	0.022	74	0.050	-0.293	-0.349	-0.236	0.020
						75	0.075	-0.766	-0.829	-0.641	0.036
8	0.100	-0.586	-0.793	-0.482	0.091	76	0.100	-0.612	-0.840	-0.490	0.094
9	0.150	-0.673	-0.754	-0.616	0.020	77	0.150	-0.655	-0.700	-0.590	0.017
10	0.200	-0.602	-0.658	-0.535	0.017	78	0.200	-0.659	-0.724	-0.565	0.018
11	0.250	-0.821	-0.867	-0.748	0.022	79	0.250	-0.417	-0.507	-0.282	0.030
12	0.300	-0.705	-0.764	-0.619	0.026	80	0.300	-0.423	-0.559	-0.285	0.037
13	0.350	-0.892	-0.961	-0.535	0.031	81	0.350	-0.268	-0.443	-0.166	0.036
14	0.400	-0.831	-0.973	-0.380	0.109	82	0.400	-0.217	-0.332	-0.147	0.023
15	0.450	-0.471	-0.970	-0.321	0.096	83	0.450	-0.332	-0.389	-0.270	0.018
16	0.500	-0.344	-0.517	-0.274	0.025	84	0.500	-0.144	-0.193	-0.088	0.015
62	0.550	-0.074	-0.143	-0.005	0.019	85	0.550	-0.095	-0.141	-0.035	0.014
18	0.600	-0.229	-0.288	-0.166	0.017	86	0.600	-0.223	-0.267	-0.178	0.013
63	0.650	-0.196	-0.240	-0.146	0.012	87	0.650	-0.002	-0.048	0.046	0.012
20	0.700	0.039	-0.016	0.095	0.015	88	0.700	-0.187	-0.229	-0.148	0.011
21	0.750	-0.104	-0.150	-0.049	0.013	89	0.750	0.028	-0.014	0.067	0.011
22	0.800	-0.074	-0.120	-0.026	0.013	90	0.800	-0.083	-0.124	-0.043	0.011
66	0.850	0.191	0.155	0.233	0.011	91	0.850	-0.051	-0.092	-0.012	0.010
24	0.900	0.236	0.203	0.280	0.010	92	0.900	0.157	0.121	0.194	0.009
25	0.950	0.343	0.312	0.381	0.009	93	0.950	0.273	0.235	0.309	0.009
26	1.000	0.304	0.278	0.337	0.007	94	1.000	0.008	-0.018	0.032	0.007
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.447	0.363	0.532	0.036	95	0.010	0.645	0.559	0.724	0.031
28	0.020	0.173	0.088	0.259	0.037	96	0.020	-0.052	-0.134	0.029	0.032
						97	0.030	-0.201	-0.278	-0.123	0.030
30	0.050	0.018	-0.044	0.082	0.025	98	0.050	-0.112	-0.167	-0.052	0.021
31	0.100	-0.341	-0.559	-0.250	0.075	99	0.100	-0.417	-0.601	-0.263	0.108
32	0.200	-0.565	-0.629	-0.497	0.021	100	0.200	-0.678	-0.725	-0.596	0.018
33	0.300	-0.894	-0.954	-0.814	0.026	101	0.300	-0.355	-0.467	-0.237	0.039
34	0.400	-0.796	-0.949	-0.357	0.124	102	0.400	-0.220	-0.307	-0.149	0.023
35	0.500	-0.125	-0.254	-0.056	0.023	103	0.500	-0.076	-0.129	-0.021	0.016
36	0.600	-0.066	-0.129	-0.008	0.017	104	0.600	-0.224	-0.264	-0.176	0.013
37	0.700	0.032	-0.027	0.084	0.016	105	0.700	-0.139	-0.181	-0.098	0.012
38	0.800	-0.102	-0.145	-0.054	0.012	106	0.800	-0.075	-0.114	-0.035	0.011
39	0.900	0.314	0.279	0.353	0.010	107	0.900	0.011	-0.025	0.052	0.010
40	0.950	0.166	0.135	0.201	0.008	108	0.950	0.186	0.154	0.221	0.008

TABLE 8. - Measured unsteady pressure data during flutter

Tab	Mach	q (psf)	Mean α (deg)
42	0.77	144.7	0.07

Reference frequency is 4.130 Hz

	Mag	Phase (deg)
h	0.36 in	-177.1
θ	0.99 deg	0.0

Upper surface at ETA = 0.60

Channel	x/c	Cp Mag	Phase (deg)
1	0.000	0.000	-170.6
2	0.010	0.121	-180.8
3	0.020	0.124	-180.8
4	0.030	0.113	-180.6
5	0.040	0.098	-180.8
6	0.050	0.075	-180.9
7	0.075	0.251	-181.2
8	0.100	0.132	-180.7
9	0.150	0.094	-180.2
10	0.200	0.117	-179.6
11	0.250	0.158	-176.6
12	0.300	0.091	-176.6
13	0.350	0.011	-158.5
14	0.400	0.009	-160.8
15	0.450	0.008	-163.1
16	0.500	0.007	-160.4
62	0.550	0.005	-156.8
18	0.600	0.003	-148.0
63	0.650	0.002	-126.6
20	0.700	0.001	-066.7
21	0.750	0.002	-028.8
22	0.800	0.004	-015.3
66	0.850	0.004	-007.0
24	0.900	0.004	-003.8
25	0.950	0.004	001.7
26	1.000	0.000	150.5

Upper surface at ETA = 0.95

Channel	x/c	Cp Mag	Phase (deg)
69	0.000	0.002	-178.0
70	0.010	0.103	-180.4
71	0.020	0.105	-180.7
72	0.030	0.098	-181.0
73	0.040	0.087	-180.6
74	0.050	0.068	-180.4
75	0.075	0.196	-180.7
76	0.100	0.053	-179.5
77	0.150	0.058	-180.4
78	0.200	0.045	-178.4
79	0.250	0.029	-176.8
80	0.300	0.018	-174.9
81	0.350	0.012	-172.3
82	0.400	0.007	-168.8
83	0.450	0.004	-161.1
84	0.500	0.002	-138.8
85	0.550	0.001	-051.8
86	0.600	0.003	-021.9
87	0.650	0.004	-010.9
88	0.700	0.005	-007.8
89	0.750	0.006	-005.7
90	0.800	0.007	-003.4
91	0.850	0.007	-002.4
92	0.900	0.007	-001.5
93	0.950	0.004	001.0
94	1.000	0.001	099.9

Lower surface at ETA = 0.60

27	0.010	0.122	-001.8
28	0.020	0.128	-000.5
29	0.030	0.119	-001.5
30	0.050	0.087	-000.5
31	0.100	0.132	-000.6
32	0.200	0.118	000.1
33	0.300	0.081	004.3
34	0.400	0.013	013.6
35	0.500	0.008	015.6
36	0.600	0.004	026.3
37	0.700	0.002	079.7
38	0.800	0.003	159.9
39	0.900	0.004	174.5
40	0.950	0.004	181.4

Lower surface at ETA = 0.95

95	0.010	0.103	-000.5
96	0.020	0.103	-000.4
97	0.030	0.099	-000.6
98	0.050	0.071	-000.4
99	0.100	0.062	000.6
100	0.200	0.044	001.4
101	0.300	0.020	004.5
102	0.400	0.008	009.8
103	0.500	0.002	040.2
104	0.600	0.003	154.5
105	0.700	0.005	170.1
106	0.800	0.007	174.5
107	0.900	0.008	178.1
108	0.950	0.005	178.3

TABLE 8. - Continued

Tab	Mach	q (psf)	Mean α (deg)
48	0.71	147.3	0.04

Reference frequency is 4.252 Hz

	Mag	Phase (deg)
h	0.26 in	-177.2
θ	0.89 deg	0.0

Upper surface at ETA = 0.60

Channel	x/c	Cp Mag	Phase (deg)
1	0.000	0.000	-013.0
2	0.010	0.137	-181.0
3	0.020	0.139	-180.9
4	0.030	0.129	-180.6
5	0.040	0.118	-180.7
6	0.050	0.100	-180.9
7	0.075	0.160	-180.4
8	0.100	0.105	-180.0
9	0.150	0.089	-179.2
10	0.200	0.069	-177.6
11	0.250	0.051	-176.3
12	0.300	0.040	-176.3
13	0.350	0.031	-175.1
14	0.400	0.023	-173.6
15	0.450	0.019	-172.6
16	0.500	0.014	-170.6
62	0.550	0.011	-167.5
18	0.600	0.008	-164.5
63	0.650	0.006	-161.0
20	0.700	0.004	-147.9
21	0.750	0.002	-117.0
22	0.800	0.002	-059.7
66	0.850	0.003	-026.1
24	0.900	0.004	-014.4
25	0.950	0.004	-008.5
26	1.000	0.001	-140.2

Lower surface at ETA = 0.60

27	0.010	0.137	-002.1
28	0.020	0.144	-000.9
29	0.030	0.134	-001.9
30	0.050	0.109	-000.9
31	0.100	0.105	-000.7
32	0.200	0.068	000.7
33	0.300	0.040	002.0
34	0.400	0.024	003.7
35	0.500	0.013	005.9
36	0.600	0.008	009.9
37	0.700	0.003	020.3
38	0.800	0.001	148.2
39	0.900	0.004	176.4
40	0.950	0.004	184.5

Upper surface at ETA = 0.95

Channel	x/c	Cp Mag	Phase (deg)
69	0.000	0.002	-173.7
70	0.010	0.106	-180.2
71	0.020	0.106	-180.4
72	0.030	0.098	-180.4
73	0.040	0.089	-180.1
74	0.050	0.077	-179.8
75	0.075	0.079	-179.5
76	0.100	0.059	-179.2
77	0.150	0.041	-179.1
78	0.200	0.030	-177.5
79	0.250	0.021	-176.0
80	0.300	0.016	-174.6
81	0.350	0.012	-172.4
82	0.400	0.008	-169.2
83	0.450	0.005	-164.0
84	0.500	0.003	-153.3
85	0.550	0.002	-122.8
86	0.600	0.001	-060.6
87	0.650	0.003	-028.9
88	0.700	0.004	-017.4
89	0.750	0.005	-011.5
90	0.800	0.005	-008.4
91	0.850	0.006	-006.6
92	0.900	0.006	-005.6
93	0.950	0.004	-004.0
94	1.000	0.001	159.0

Lower surface at ETA = 0.95

95	0.010	0.105	-000.4
96	0.020	0.104	-000.4
97	0.030	0.098	-000.5
98	0.050	0.076	-000.4
99	0.100	0.059	000.2
100	0.200	0.030	001.2
101	0.300	0.016	003.1
102	0.400	0.008	005.6
103	0.500	0.003	017.1
104	0.600	0.001	145.6
105	0.700	0.004	173.5
106	0.800	0.006	178.4
107	0.900	0.006	-178.2
108	0.950	0.005	-177.0

TABLE 8. - Continued

Tab	Mach	q (psf)	Mean α (deg)
62	0.67	146.1	0.05

Reference frequency is 4.279 Hz

	Mag	Phase (deg)
h	0.34 in	-177.1
θ	1.22 deg	0.0

Upper surface at ETA = 0.60

Channel	x/c	Cp Mag	Phase (deg)
1	0.000	0.001	-010.7
2	0.010	0.203	-180.8
3	0.020	0.205	-180.7
4	0.030	0.190	-180.6
5	0.040	0.173	-180.6
6	0.050	0.150	-180.8
8	0.100	0.139	-180.1
9	0.150	0.112	-179.4
10	0.200	0.088	-178.9
11	0.250	0.068	-177.5
12	0.300	0.054	-176.7
13	0.350	0.043	-176.7
14	0.400	0.034	-175.8
15	0.450	0.027	-175.0
16	0.500	0.021	-173.9
62	0.550	0.017	-172.2
18	0.600	0.013	-170.8
63	0.650	0.009	-170.8
20	0.700	0.006	-164.5
21	0.750	0.004	-156.3
22	0.800	0.001	-112.6
66	0.850	0.002	-025.1
24	0.900	0.004	-008.0
25	0.950	0.005	-000.7
26	1.000	0.000	137.1

Upper surface at ETA = 0.95

Channel	x/c	Cp Mag	Phase (deg)
69	0.000	0.004	-175.5
70	0.010	0.153	-180.4
71	0.020	0.150	-180.6
72	0.030	0.137	-180.7
73	0.040	0.124	-180.4
74	0.050	0.108	-180.2
75	0.075	0.099	-180.0
76	0.100	0.078	-179.8
77	0.150	0.054	-180.0
78	0.200	0.040	-178.5
79	0.250	0.030	-177.7
80	0.300	0.022	-176.8
81	0.350	0.016	-175.5
82	0.400	0.012	-173.8
83	0.450	0.008	-170.9
84	0.500	0.005	-166.1
85	0.550	0.002	-151.0
86	0.600	0.001	-079.4
87	0.650	0.002	-020.2
88	0.700	0.004	-009.0
89	0.750	0.006	-006.0
90	0.800	0.007	-003.3
91	0.850	0.008	-001.6
92	0.900	0.008	000.1
93	0.950	0.005	002.3
94	1.000	0.001	120.7

Lower surface at ETA = 0.60

27	0.010	0.203	-001.6
28	0.020	0.209	-000.5
30	0.050	0.159	-000.4
31	0.100	0.139	000.0
32	0.200	0.086	001.6
33	0.300	0.054	003.1
34	0.400	0.034	005.1
35	0.500	0.021	007.5
36	0.600	0.013	012.0
37	0.700	0.007	021.1
38	0.800	0.002	069.4
39	0.900	0.004	164.7
40	0.950	0.004	175.9

Lower surface at ETA = 0.95

95	0.010	0.151	-000.5
96	0.020	0.148	-000.4
97	0.030	0.137	-000.4
98	0.050	0.108	-000.2
99	0.100	0.077	000.7
100	0.200	0.040	002.3
101	0.300	0.022	005.0
102	0.400	0.011	009.4
103	0.500	0.005	023.4
104	0.600	0.002	101.0
105	0.700	0.004	160.5
106	0.800	0.007	170.6
107	0.900	0.008	175.1
108	0.950	0.006	175.7

TABLE 8. - Continued

Tab	Mach	q (psf)	Mean α (deg)
67	0.61	144.3	0.05

Reference frequency is 4.339 Hz

	Mag	Phase (deg)
h	0.25 in	-177.3
θ	1.01 deg	0.0

Upper surface at ETA = 0.60

Channel	x/c	Cp Mag	Phase (deg)
1	0.000	0.001	-010.1
2	0.010	0.179	-180.9
3	0.020	0.174	-180.8
4	0.030	0.160	-180.6
5	0.040	0.145	-180.7
6	0.050	0.128	-180.8
8	0.100	0.105	-180.0
9	0.150	0.083	-179.3
10	0.200	0.066	-178.9
11	0.250	0.052	-177.5
12	0.300	0.042	-176.5
13	0.350	0.035	-176.5
14	0.400	0.028	-175.5
15	0.450	0.023	-175.0
16	0.500	0.019	-173.6
62	0.550	0.015	-172.0
18	0.600	0.012	-170.4
63	0.650	0.009	-170.7
20	0.700	0.006	-164.9
21	0.750	0.004	-158.9
22	0.800	0.002	-139.6
66	0.850	0.001	-073.1
24	0.900	0.002	-019.5
25	0.950	0.003	-006.1
26	1.000	0.000	-037.6

Upper surface at ETA = 0.95

Channel	x/c	Cp Mag	Phase (deg)
69	0.000	0.003	-177.9
70	0.010	0.130	-180.8
71	0.020	0.124	-180.9
72	0.030	0.111	-181.0
73	0.040	0.099	-180.7
74	0.050	0.087	-180.5
75	0.075	0.073	-180.2
76	0.100	0.059	-179.8
77	0.150	0.042	-179.8
78	0.200	0.030	-178.3
79	0.250	0.023	-177.4
80	0.300	0.017	-176.3
81	0.350	0.013	-174.5
82	0.400	0.009	-172.9
83	0.450	0.006	-168.4
84	0.500	0.004	-161.8
85	0.550	0.002	-139.7
86	0.600	0.001	-081.2
87	0.650	0.002	-029.0
88	0.700	0.003	-016.5
89	0.750	0.004	-011.4
90	0.800	0.006	-007.3
91	0.850	0.006	-005.2
92	0.900	0.006	-003.9
93	0.950	0.005	-001.7
94	1.000	0.001	128.6

Lower surface at ETA = 0.60

27	0.010	0.179	-001.7
28	0.020	0.180	-000.6
30	0.050	0.134	-000.4
31	0.100	0.106	000.1
32	0.200	0.065	001.6
33	0.300	0.043	002.9
34	0.400	0.029	004.5
35	0.500	0.019	006.0
36	0.600	0.013	009.8
37	0.700	0.007	014.6
38	0.800	0.002	033.5
39	0.900	0.002	154.8
40	0.950	0.002	178.3

Lower surface at ETA = 0.95

95	0.010	0.129	-000.8
96	0.020	0.123	-000.6
97	0.030	0.112	-000.6
98	0.050	0.087	-000.3
99	0.100	0.060	000.6
100	0.200	0.031	002.3
101	0.300	0.018	004.5
102	0.400	0.010	007.8
103	0.500	0.005	018.0
104	0.600	0.001	066.1
105	0.700	0.003	158.2
106	0.800	0.005	171.9
107	0.900	0.006	176.4
108	0.950	0.005	177.5

TABLE 8. - Continued

Tab	Mach	q (psf)	Mean α (deg)
74	0.51	141.5	0.06

Reference frequency is 4.427 Hz

	Mag	Phase (deg)
h	0.32 in	-177.0
θ	1.49 deg	0.0

Upper surface at ETA = 0.60

Channel	x/c	Cp Mag	Phase (deg)
1	0.000	0.001	-009.6
2	0.010	0.282	-180.7
3	0.020	0.264	-180.6
4	0.030	0.237	-180.3
5	0.040	0.212	-180.4
6	0.050	0.188	-180.3
8	0.100	0.142	-179.5
9	0.150	0.111	-178.9
10	0.200	0.089	-178.3
11	0.250	0.072	-176.9
12	0.300	0.060	-176.1
13	0.350	0.050	-176.1
14	0.400	0.041	-175.2
15	0.450	0.035	-174.4
16	0.500	0.029	-173.1
62	0.550	0.024	-171.7
18	0.600	0.019	-170.4
63	0.650	0.015	-170.2
20	0.700	0.012	-165.8
21	0.750	0.008	-162.1
22	0.800	0.006	-154.8
66	0.850	0.003	-136.1
24	0.900	0.002	-058.0
25	0.950	0.003	-015.1
26	1.000	0.000	-070.5

Upper surface at ETA = 0.95

Channel	x/c	Cp Mag	Phase (deg)
69	0.000	0.007	-178.5
70	0.010	0.201	-180.4
71	0.020	0.183	-180.5
72	0.030	0.161	-180.5
73	0.040	0.142	-180.1
74	0.050	0.125	-179.9
75	0.075	0.098	-179.6
76	0.100	0.082	-179.2
77	0.150	0.058	-178.9
78	0.200	0.043	-177.5
79	0.250	0.033	-176.5
80	0.300	0.025	-175.2
81	0.350	0.020	-173.5
82	0.400	0.014	-171.3
83	0.450	0.010	-167.5
84	0.500	0.007	-162.0
85	0.550	0.004	-148.9
86	0.600	0.002	-118.6
87	0.650	0.002	-054.4
88	0.700	0.004	-026.6
89	0.750	0.005	-017.0
90	0.800	0.007	-011.3
91	0.850	0.008	-007.9
92	0.900	0.007	-005.4
93	0.950	0.006	-002.2
94	1.000	0.001	148.0

Lower surface at ETA = 0.60

27	0.010	0.281	-001.3
28	0.020	0.269	-000.4
30	0.050	0.191	-000.2
31	0.100	0.142	000.3
32	0.200	0.088	001.6
33	0.300	0.061	003.0
34	0.400	0.042	004.6
35	0.500	0.029	006.2
36	0.600	0.019	008.9
37	0.700	0.012	012.6
38	0.800	0.006	020.6
39	0.900	0.001	111.9
40	0.950	0.002	177.7

Lower surface at ETA = 0.95

95	0.010	0.196	-000.4
96	0.020	0.180	-000.3
97	0.030	0.160	-000.3
98	0.050	0.123	000.0
99	0.100	0.082	000.8
100	0.200	0.044	002.3
101	0.300	0.025	004.6
102	0.400	0.015	007.8
103	0.500	0.007	016.3
104	0.600	0.002	058.6
105	0.700	0.004	153.7
106	0.800	0.007	169.6
107	0.900	0.009	176.2
108	0.950	0.007	178.2

TABLE 8. - Continued

Tab	Mach	q (psf)	Mean α (deg)
79	0.45	137.4	0.06

Reference frequency is 4.474 Hz

	Mag	Phase (deg)
h	0.23 in	-176.7
θ	1.22 deg	0.0

Upper surface at ETA = 0.60

Channel	x/c	Cp Mag	Phase (deg)
1	0.000	0.001	-020.5
2	0.010	0.231	-180.5
3	0.020	0.211	-180.4
4	0.030	0.188	-180.2
5	0.040	0.168	-180.2
6	0.050	0.148	-180.1
8	0.100	0.111	-179.3
9	0.150	0.087	-178.7
10	0.200	0.070	-178.1
11	0.250	0.057	-176.7
12	0.300	0.047	-175.8
13	0.350	0.039	-175.8
14	0.400	0.033	-175.0
15	0.450	0.028	-174.1
16	0.500	0.023	-173.0
62	0.550	0.019	-171.8
18	0.600	0.016	-170.4
63	0.650	0.012	-169.7
20	0.700	0.010	-166.4
21	0.750	0.007	-163.9
22	0.800	0.006	-159.6
66	0.850	0.003	-145.8
24	0.900	0.001	-094.9
25	0.950	0.002	-015.6
26	1.000	0.000	-051.5

Upper surface at ETA = 0.95

Channel	x/c	Cp Mag	Phase (deg)
69	0.000	0.005	-175.2
70	0.010	0.163	-180.3
71	0.020	0.146	-180.3
72	0.030	0.128	-180.3
73	0.040	0.112	-180.1
74	0.050	0.098	-179.9
75	0.075	0.077	-179.6
76	0.100	0.065	-179.2
77	0.150	0.046	-178.8
78	0.200	0.034	-177.5
79	0.250	0.026	-176.6
80	0.300	0.020	-175.2
81	0.350	0.015	-173.6
82	0.400	0.011	-171.3
83	0.450	0.008	-168.0
84	0.500	0.006	-162.1
85	0.550	0.003	-150.3
86	0.600	0.002	-125.1
87	0.650	0.002	-059.0
88	0.700	0.003	-027.4
89	0.750	0.004	-017.1
90	0.800	0.005	-011.2
91	0.850	0.006	-007.0
92	0.900	0.006	-004.4
93	0.950	0.005	-002.2
94	1.000	0.001	150.2

Lower surface at ETA = 0.60

27	0.010	0.230	-001.1
28	0.020	0.216	-000.3
30	0.050	0.151	000.0
31	0.100	0.110	000.6
32	0.200	0.068	001.9
33	0.300	0.048	003.4
34	0.400	0.033	005.1
35	0.500	0.024	007.0
36	0.600	0.017	009.8
37	0.700	0.010	013.7
38	0.800	0.005	021.6
39	0.900	0.001	085.4
40	0.950	0.001	170.2

Lower surface at ETA = 0.95

95	0.010	0.159	-000.3
96	0.020	0.144	-000.1
97	0.030	0.127	-000.1
98	0.050	0.096	000.2
99	0.100	0.064	001.1
100	0.200	0.034	002.8
101	0.300	0.020	005.4
102	0.400	0.012	009.2
103	0.500	0.006	019.9
104	0.600	0.002	059.9
105	0.700	0.003	148.7
106	0.800	0.006	167.9
107	0.900	0.008	174.5
108	0.950	0.006	176.9

TABLE 8. - Continued

Tab	Mach	q (psf)	Mean α (deg)
84	0.39	137.3	0.07

Reference frequency is 4.511 Hz

	Mag	Phase (deg)
h	0.35 in	-176.2
θ	1.93 deg	0.0

Upper surface at ETA = 0.60

Channel	x/c	Cp Mag	Phase (deg)
1	0.000	0.001	-058.1
2	0.010	0.366	-180.4
3	0.020	0.333	-180.3
4	0.030	0.293	-180.1
5	0.040	0.261	-180.0
6	0.050	0.230	-179.9
8	0.100	0.170	-179.1
9	0.150	0.133	-178.4
10	0.200	0.107	-177.8
11	0.250	0.087	-176.1
12	0.300	0.073	-175.2
13	0.350	0.061	-175.2
14	0.400	0.052	-174.1
15	0.450	0.044	-173.3
16	0.500	0.037	-172.0
62	0.550	0.031	-170.5
18	0.600	0.025	-168.9
63	0.650	0.021	-168.0
20	0.700	0.016	-164.7
21	0.750	0.011	-161.3
22	0.800	0.009	-157.1
66	0.850	0.005	-147.0
24	0.900	0.002	-108.1
25	0.950	0.003	-020.6
26	1.000	0.000	-017.9

Lower surface at ETA = 0.60

27	0.010	0.365	-000.9
28	0.020	0.338	-000.2
30	0.050	0.234	000.2
31	0.100	0.169	000.8
32	0.200	0.106	002.2
33	0.300	0.074	003.9
34	0.400	0.052	005.8
35	0.500	0.038	007.9
36	0.600	0.026	011.0
37	0.700	0.017	014.9
38	0.800	0.009	021.7
39	0.900	0.002	053.0
40	0.950	0.001	156.0

Upper surface at ETA = 0.95

Channel	x/c	Cp Mag	Phase (deg)
69	0.000	0.010	-177.2
70	0.010	0.258	-180.2
71	0.020	0.228	-180.2
72	0.030	0.198	-180.2
73	0.040	0.174	-179.9
74	0.050	0.152	-179.7
75	0.075	0.118	-179.3
76	0.100	0.099	-178.9
77	0.150	0.070	-178.2
78	0.200	0.053	-177.0
79	0.250	0.041	-175.8
80	0.300	0.031	-174.3
81	0.350	0.024	-172.2
82	0.400	0.018	-169.7
83	0.450	0.013	-165.8
84	0.500	0.010	-160.6
85	0.550	0.006	-149.6
86	0.600	0.004	-127.6
87	0.650	0.003	-077.1
88	0.700	0.004	-040.0
89	0.750	0.005	-024.4
90	0.800	0.007	-016.4
91	0.850	0.008	-010.8
92	0.900	0.008	-007.0
93	0.950	0.006	-004.1
94	1.000	0.001	152.1

Lower surface at ETA = 0.95

95	0.010	0.251	-000.3
96	0.020	0.225	-000.1
97	0.030	0.196	000.0
98	0.050	0.150	000.3
99	0.100	0.099	001.4
100	0.200	0.053	003.3
101	0.300	0.032	006.4
102	0.400	0.019	010.8
103	0.500	0.009	021.5
104	0.600	0.004	056.1
105	0.700	0.004	138.5
106	0.800	0.007	163.4
107	0.900	0.010	172.6
108	0.950	0.007	174.9

TABLE 8. - Continued

Tab	Mach	q (psf)	Mean α (deg)
94	0.30	131.4	0.07

Reference frequency is 4.560 Hz

	Mag	Phase (deg)
h	0.27 in	-175.5
θ	1.63 deg	0.0

Upper surface at ETA = 0.60

Channel	x/c	Cp Mag	Phase (deg)
1	0.000	0.002	-168.3
2	0.010	0.309	-180.6
3	0.020	0.277	-180.4
4	0.030	0.242	-180.2
5	0.040	0.215	-180.0
6	0.050	0.188	-179.9
7	0.075	0.162	-179.4
8	0.100	0.139	-178.9
9	0.150	0.108	-178.0
10	0.200	0.087	-176.3
11	0.250	0.071	-175.1
12	0.300	0.060	-175.1
13	0.350	0.051	-173.9
14	0.400	0.043	-172.6
15	0.450	0.036	-171.5
16	0.500	0.031	-169.7
62	0.550	0.027	-168.0
18	0.600	0.021	-166.0
63	0.650	0.018	-164.6
20	0.700	0.015	-161.5
21	0.750	0.011	-157.4
22	0.800	0.008	-152.5
66	0.850	0.005	-141.9
24	0.900	0.003	-112.7
25	0.950	0.002	-032.8
26	1.000	0.000	-023.8

Upper surface at ETA = 0.95

Channel	x/c	Cp Mag	Phase (deg)
69	0.000	0.010	-178.6
70	0.010	0.217	-180.3
71	0.020	0.189	-180.3
72	0.030	0.163	-180.2
73	0.040	0.143	-179.9
74	0.050	0.125	-179.7
75	0.075	0.096	-179.1
76	0.100	0.081	-178.5
77	0.150	0.057	-177.5
78	0.200	0.045	-176.1
79	0.250	0.034	-174.7
80	0.300	0.026	-172.7
81	0.350	0.021	-170.2
82	0.400	0.015	-167.0
83	0.450	0.011	-162.3
84	0.500	0.008	-155.7
85	0.550	0.006	-144.7
86	0.600	0.004	-122.6
87	0.650	0.003	-084.0
88	0.700	0.004	-049.1
89	0.750	0.005	-030.9
90	0.800	0.006	-021.2
91	0.850	0.007	-015.1
92	0.900	0.006	-010.5
93	0.950	0.005	-005.4
94	1.000	0.001	152.8

Lower surface at ETA = 0.60

27	0.010	0.305	-000.9
28	0.020	0.280	-000.3
29	0.030	0.245	-000.4
30	0.050	0.191	000.2
31	0.100	0.138	001.0
32	0.200	0.087	002.8
33	0.300	0.061	004.8
34	0.400	0.044	007.0
35	0.500	0.033	009.7
36	0.600	0.023	013.0
37	0.700	0.016	017.3
38	0.800	0.009	022.9
39	0.900	0.003	042.5
40	0.950	0.001	113.6

Lower surface at ETA = 0.95

95	0.010	0.210	-000.3
96	0.020	0.186	-000.2
97	0.030	0.161	000.0
98	0.050	0.123	000.3
99	0.100	0.081	001.6
100	0.200	0.044	004.1
101	0.300	0.026	008.0
102	0.400	0.016	013.7
103	0.500	0.008	027.6
104	0.600	0.003	065.8
105	0.700	0.004	134.8
106	0.800	0.007	160.5
107	0.900	0.008	170.7
108	0.950	0.007	175.1

TABLE 8. - Continued

Tab	Mach	q (psf)	Mean α (deg)
129	0.80	147.2	0.06

Reference frequency is 4.094 Hz

	Mag	Phase (deg)
h	0.25 in	-177.4
θ	0.60 deg	0.0

Upper surface at ETA = 0.60

Channel	x/c	Cp Mag	Phase (deg)
1	0.000	0.000	-062.6
2	0.010	0.068	-181.0
3	0.020	0.068	-181.0
4	0.030	0.062	-180.9
5	0.040	0.053	-181.0
6	0.050	0.044	-181.3
8	0.100	0.087	-181.7
9	0.150	0.038	-180.0
10	0.200	0.044	-180.3
11	0.250	0.054	-181.1
12	0.300	0.079	-178.4
13	0.350	0.157	-178.4
14	0.400	0.016	-164.7
15	0.450	0.010	-016.7
16	0.500	0.008	-013.3
62	0.550	0.006	-015.0
18	0.600	0.004	-015.1
63	0.650	0.003	-020.1
20	0.700	0.003	-012.5
21	0.750	0.003	-009.5
22	0.800	0.003	-006.5
66	0.850	0.003	-003.4
24	0.900	0.003	001.1
25	0.950	0.002	000.6
26	1.000	0.000	010.1

Lower surface at ETA = 0.60

27	0.010	0.067	-002.1
28	0.020	0.069	-000.7
30	0.050	0.049	-000.8
31	0.100	0.078	-001.2
32	0.200	0.046	000.3
33	0.300	0.085	-000.7
34	0.400	0.008	028.1
35	0.500	0.008	164.9
36	0.600	0.004	156.0
37	0.700	0.003	159.6
38	0.800	0.003	164.2
39	0.900	0.002	173.0
40	0.950	0.001	197.2

Upper surface at ETA = 0.95

Channel	x/c	Cp Mag	Phase (deg)
69	0.000	0.001	-170.4
70	0.010	0.059	-179.9
71	0.020	0.059	-180.3
72	0.030	0.056	-180.6
73	0.040	0.049	-180.3
74	0.050	0.037	-180.1
75	0.075	0.092	-180.9
76	0.100	0.058	-180.1
77	0.150	0.029	-181.2
78	0.200	0.035	-179.6
79	0.250	0.032	-178.2
80	0.300	0.018	-175.5
81	0.350	0.010	-171.2
82	0.400	0.005	-164.6
83	0.450	0.002	-151.7
84	0.500	0.001	-095.6
85	0.550	0.001	-030.9
86	0.600	0.002	-013.2
87	0.650	0.003	-007.2
88	0.700	0.003	-002.9
89	0.750	0.004	-002.2
90	0.800	0.004	-000.2
91	0.850	0.005	000.9
92	0.900	0.004	002.7
93	0.950	0.002	005.6
94	1.000	0.000	067.6

Lower surface at ETA = 0.95

95	0.010	0.059	000.0
96	0.020	0.060	000.1
97	0.030	0.055	000.0
98	0.050	0.040	000.1
99	0.100	0.068	000.3
100	0.200	0.032	000.8
101	0.300	0.017	002.9
102	0.400	0.005	010.8
103	0.500	0.001	094.1
104	0.600	0.002	162.7
105	0.700	0.004	170.2
106	0.800	0.005	175.3
107	0.900	0.005	177.7
108	0.950	0.003	177.6

TABLE 8. - Concluded

Tab	Mach	q (psf)	Mean α (deg)
134	0.82	159.5	0.07

Reference frequency is 4.069 Hz

	Mag	Phase (deg)
h	0.21 in	-176.5
θ	0.42 deg	0.0

Upper surface at ETA = 0.60

Channel	x/c	Cp Mag	Phase (deg)
1	0.000	0.000	-202.6
2	0.010	0.044	-180.3
3	0.020	0.043	-180.4
4	0.030	0.040	-180.1
5	0.040	0.033	-180.3
6	0.050	0.025	-180.6
8	0.100	0.101	-180.3
9	0.150	0.021	-179.3
10	0.200	0.018	-179.2
11	0.250	0.024	-179.4
12	0.300	0.030	-180.0
13	0.350	0.034	-180.0
14	0.400	0.081	-179.3
15	0.450	0.057	-177.4
16	0.500	0.008	-164.6
62	0.550	0.004	-025.6
18	0.600	0.006	-012.2
63	0.650	0.006	-011.6
20	0.700	0.006	-008.4
21	0.750	0.005	-006.2
22	0.800	0.004	-006.6
66	0.850	0.004	-004.8
24	0.900	0.003	-001.6
25	0.950	0.002	-001.0
26	1.000	0.000	003.2

Upper surface at ETA = 0.95

Channel	x/c	Cp Mag	Phase (deg)
69	0.000	0.001	-182.7
70	0.010	0.038	-179.8
71	0.020	0.038	-180.1
72	0.030	0.036	-180.3
73	0.040	0.031	-180.0
74	0.050	0.023	-179.8
75	0.075	0.042	-180.7
76	0.100	0.108	-179.6
77	0.150	0.016	-179.7
78	0.200	0.012	-177.2
79	0.250	0.018	-178.0
80	0.300	0.022	-179.0
81	0.350	0.018	-177.0
82	0.400	0.007	-172.4
83	0.450	0.003	-159.6
84	0.500	0.001	-095.1
85	0.550	0.002	-027.3
86	0.600	0.002	-015.8
87	0.650	0.003	-012.3
88	0.700	0.003	-006.6
89	0.750	0.003	-004.1
90	0.800	0.004	-002.5
91	0.850	0.004	-000.5
92	0.900	0.003	001.4
93	0.950	0.002	003.8
94	1.000	0.001	049.2

Lower surface at ETA = 0.60

27	0.010	0.043	-001.3
28	0.020	0.044	000.1
30	0.050	0.029	000.1
31	0.100	0.077	-000.9
32	0.200	0.023	000.8
33	0.300	0.030	000.9
34	0.400	0.093	-000.1
35	0.500	0.005	026.2
36	0.600	0.006	171.0
37	0.700	0.005	174.3
38	0.800	0.004	175.6
39	0.900	0.003	178.8
40	0.950	0.001	193.1

Lower surface at ETA = 0.95

95	0.010	0.037	000.4
96	0.020	0.038	000.4
97	0.030	0.036	000.3
98	0.050	0.025	000.3
99	0.100	0.129	000.3
100	0.200	0.012	002.7
101	0.300	0.024	001.1
102	0.400	0.008	005.2
103	0.500	0.001	049.4
104	0.600	0.002	162.3
105	0.700	0.003	172.1
106	0.800	0.004	176.5
107	0.900	0.003	179.0
108	0.950	0.002	177.9

TABLE 9. - Summary of test conditions where pressures were measured with the mount rigidized

Tab	Nominal Mach	Nominal q, psf	Alpha Set*
668-672	0.30	129	a
664-667	0.40	139	a
656-659	0.50	139	a
652-655	0.60	138	a
648-651	0.70	140	a
640-647	0.75	140	b
632-639	0.77	139	b
621-631	0.78	140	b+c
613-620	0.79	137	b
605-612	0.80	138	b
597-604	0.81	139	b
589-596	0.82	140	b
585-588	0.85	136	a

* Alpha Sets:

a: α = 0.0, 1.0, 2.0, 4.0 degrees.

b: α = -1.0, 0.0, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0 degrees.

c: α = 2.5, 3.5, 4.5 degrees.

TABLE 10. - Measured steady pressure data with the mount system rigidized

Tab	Mach	q (psf)	α (deg)
551	0.00	0.0	0.10

Channel	x/c	Upper surface at ETA = 0.60 Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	-0.001	-0.005	0.004	0.001
2	0.010	0.001	-0.004	0.005	0.001
3	0.020	-0.001	-0.007	0.004	0.002
4	0.030	-0.001	-0.008	0.004	0.002
5	0.040	-0.001	-0.007	0.003	0.002
6	0.050	0.001	-0.006	0.008	0.002
7	0.075	0.002	-0.006	0.008	0.003
8	0.100	-0.001	-0.009	0.005	0.003
9	0.150	-0.001	-0.004	0.005	0.001
10	0.200	0.001	-0.004	0.008	0.002
11	0.250	0.000	-0.004	0.006	0.002
12	0.300	0.001	-0.005	0.005	0.002
13	0.350	-0.001	-0.005	0.004	0.001
14	0.400	-0.001	-0.007	0.003	0.001
15	0.450	-0.001	-0.004	0.007	0.002
16	0.500	-0.001	-0.005	0.003	0.001
62	0.550	0.001	-0.005	0.008	0.002
18	0.600	-0.001	-0.005	0.004	0.001
63	0.650	-0.001	-0.006	0.004	0.002
20	0.700	0.001	-0.007	0.008	0.002
21	0.750	0.003	-0.009	0.013	0.003
22	0.800	-0.003	-0.016	0.008	0.003
66	0.850	0.001	-0.007	0.009	0.002
25	0.950	0.000	-0.012	0.007	0.003
26	1.000	0.000	-0.005	0.005	0.002
		Lower surface at ETA = 0.60			
27	0.010	0.001	-0.006	0.005	0.001
28	0.020	0.001	-0.004	0.007	0.002
30	0.050	0.002	-0.013	0.008	0.003
31	0.100	0.002	-0.004	0.010	0.002
32	0.200	0.001	-0.015	0.010	0.002
33	0.300	-0.001	-0.010	0.013	0.002
34	0.400	-0.001	-0.007	0.008	0.001
35	0.500	0.001	-0.020	0.010	0.003
36	0.600	0.001	-0.007	0.013	0.004
37	0.700	0.001	-0.008	0.008	0.003
38	0.800	-0.001	-0.007	0.006	0.002

Channel	x/c	Upper surface at ETA = 0.95 Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	-0.002	-0.007	0.004	0.002
70	0.010	-0.002	-0.008	0.004	0.002
71	0.020	0.002	-0.002	0.009	0.001
72	0.030	0.002	-0.004	0.006	0.001
73	0.040	0.002	-0.004	0.009	0.002
74	0.050	-0.002	-0.009	0.005	0.002
75	0.075	-0.002	-0.008	0.003	0.002
76	0.100	-0.002	-0.007	0.005	0.002
77	0.150	-0.002	-0.011	0.008	0.003
78	0.200	-0.001	-0.011	0.006	0.003
79	0.250	0.002	-0.003	0.009	0.002
81	0.350	0.002	-0.005	0.009	0.002
82	0.400	0.002	-0.005	0.017	0.003
83	0.450	-0.001	-0.005	0.003	0.001
84	0.500	0.001	-0.005	0.005	0.001
85	0.550	0.001	-0.003	0.006	0.002
86	0.600	-0.001	-0.006	0.004	0.001
87	0.650	0.001	-0.003	0.006	0.001
88	0.700	-0.002	-0.007	0.004	0.002
89	0.750	0.001	-0.003	0.006	0.001
90	0.800	-0.001	-0.005	0.004	0.001
91	0.850	-0.001	-0.005	0.003	0.001
92	0.900	0.001	-0.004	0.006	0.001
93	0.950	0.002	-0.004	0.009	0.002
94	1.000	-0.001	-0.008	0.006	0.003
		Lower surface at ETA = 0.95			
95	0.010	0.002	-0.005	0.008	0.002
96	0.020	-0.002	-0.008	0.004	0.002
97	0.030	-0.001	-0.006	0.002	0.001
98	0.050	0.002	-0.004	0.013	0.002
99	0.100	0.003	-0.003	0.025	0.002
100	0.200	-0.002	-0.008	0.003	0.002
101	0.300	0.003	-0.003	0.008	0.002
102	0.400	0.002	-0.004	0.007	0.002
103	0.500	0.003	-0.004	0.013	0.003
104	0.600	-0.001	-0.007	0.005	0.002
105	0.700	-0.001	-0.005	0.003	0.001
106	0.800	-0.001	-0.007	0.012	0.002
107	0.900	-0.001	-0.004	0.003	0.001
108	0.950	0.001	-0.003	0.004	0.001

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
585	0.85	136.1	0.04

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.147	1.125	1.163	0.005	69	0.000	1.143	1.123	1.161	0.005
2	0.010	0.474	0.445	0.507	0.008	70	0.010	0.311	0.278	0.346	0.009
3	0.020	0.049	0.022	0.080	0.008	71	0.020	0.120	0.089	0.156	0.008
4	0.030	-0.064	-0.089	-0.037	0.008	72	0.030	-0.011	-0.038	0.020	0.008
5	0.040	-0.101	-0.124	-0.079	0.007	73	0.040	-0.078	-0.103	-0.049	0.007
6	0.050	0.053	0.032	0.074	0.005	74	0.050	-0.178	-0.200	-0.157	0.006
7	0.075	-0.600	-0.624	-0.581	0.006	75	0.075	-0.802	-0.822	-0.784	0.005
8	0.100	-0.628	-0.670	-0.464	0.024	76	0.100	-0.709	-0.738	-0.657	0.009
9	0.150	-0.556	-0.583	-0.528	0.009	77	0.150	-0.522	-0.551	-0.494	0.009
10	0.200	-0.579	-0.599	-0.553	0.006	78	0.200	-0.590	-0.626	-0.552	0.010
11	0.250	-0.749	-0.769	-0.724	0.006	79	0.250	-0.509	-0.541	-0.453	0.011
12	0.300	-0.700	-0.722	-0.673	0.007	81	0.350	-0.475	-0.540	-0.291	0.028
13	0.350	-0.836	-0.857	-0.809	0.006	82	0.400	-0.396	-0.518	-0.224	0.049
14	0.400	-0.851	-0.878	-0.814	0.009	83	0.450	-0.374	-0.556	-0.259	0.038
15	0.450	-0.872	-0.902	-0.541	0.018	84	0.500	-0.203	-0.313	-0.115	0.022
16	0.500	-0.629	-0.902	-0.292	0.126	85	0.550	-0.139	-0.213	-0.065	0.017
62	0.550	-0.196	-0.443	-0.081	0.039	86	0.600	-0.202	-0.259	-0.142	0.015
18	0.600	-0.242	-0.343	-0.163	0.022	87	0.650	-0.050	-0.092	0.004	0.013
63	0.650	-0.164	-0.223	-0.119	0.013	88	0.700	-0.150	-0.190	-0.110	0.012
20	0.700	0.011	-0.048	0.066	0.013	89	0.750	-0.002	-0.039	0.039	0.011
21	0.750	-0.062	-0.106	-0.014	0.012	90	0.800	-0.050	-0.088	-0.010	0.011
22	0.800	-0.024	-0.066	0.018	0.011	91	0.850	-0.023	-0.059	0.013	0.010
66	0.850	0.153	0.120	0.195	0.010	92	0.900	0.130	0.099	0.166	0.009
25	0.950	0.275	0.247	0.308	0.009	93	0.950	0.236	0.207	0.270	0.009
26	1.000	0.261	0.238	0.292	0.007	94	1.000	0.043	0.016	0.069	0.007
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.454	0.425	0.484	0.008	95	0.010	0.419	0.392	0.448	0.009
28	0.020	0.186	0.156	0.215	0.008	96	0.020	0.012	-0.019	0.040	0.009
						97	0.030	-0.058	-0.085	-0.032	0.008
30	0.050	0.050	0.026	0.075	0.006	98	0.050	-0.135	-0.157	-0.111	0.006
31	0.100	-0.523	-0.555	-0.432	0.013	99	0.100	-0.549	-0.577	-0.512	0.009
32	0.200	-0.544	-0.576	-0.521	0.007	100	0.200	-0.622	-0.649	-0.589	0.007
33	0.300	-0.813	-0.834	-0.781	0.007	101	0.300	-0.502	-0.545	-0.395	0.016
34	0.400	-0.850	-0.873	-0.815	0.007	102	0.400	-0.408	-0.522	-0.232	0.048
35	0.500	-0.541	-0.771	-0.168	0.123	103	0.500	-0.157	-0.283	-0.088	0.023
36	0.600	-0.114	-0.213	-0.048	0.022	104	0.600	-0.202	-0.258	-0.152	0.015
37	0.700	0.005	-0.049	0.063	0.013	105	0.700	-0.121	-0.164	-0.073	0.012
38	0.800	-0.053	-0.093	-0.007	0.011	106	0.800	-0.053	-0.090	-0.009	0.011
						107	0.900	0.038	0.006	0.075	0.010
						108	0.950	0.165	0.138	0.199	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
586	0.86	137.3	1.04

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.141	1.121	1.155	0.006
2	0.010	0.392	0.364	0.430	0.009
3	0.020	-0.027	-0.055	0.007	0.008
4	0.030	-0.131	-0.156	-0.100	0.008
5	0.040	-0.153	-0.174	-0.128	0.007
6	0.050	0.013	-0.009	0.038	0.006
7	0.075	-0.630	-0.647	-0.609	0.005
8	0.100	-0.724	-0.750	-0.697	0.007
9	0.150	-0.697	-0.727	-0.663	0.009
10	0.200	-0.640	-0.677	-0.609	0.009
11	0.250	-0.778	-0.800	-0.760	0.005
12	0.300	-0.753	-0.773	-0.732	0.006
13	0.350	-0.885	-0.911	-0.862	0.006
14	0.400	-0.896	-0.917	-0.872	0.007
15	0.450	-0.929	-0.955	-0.551	0.017
16	0.500	-0.589	-0.933	-0.321	0.105
62	0.550	-0.223	-0.396	-0.109	0.028
18	0.600	-0.283	-0.366	-0.190	0.023
63	0.650	-0.199	-0.262	-0.136	0.018
20	0.700	-0.016	-0.100	0.050	0.021
21	0.750	-0.075	-0.147	-0.024	0.017
22	0.800	-0.030	-0.100	0.016	0.014
66	0.850	0.152	0.090	0.190	0.012
25	0.950	0.269	0.218	0.303	0.011
26	1.000	0.244	0.192	0.277	0.010

Lower surface at ETA = 0.60

27	0.010	0.534	0.502	0.559	0.008
28	0.020	0.270	0.235	0.295	0.009
30	0.050	0.103	0.080	0.124	0.007
31	0.100	-0.251	-0.269	-0.234	0.005
32	0.200	-0.512	-0.534	-0.489	0.007
33	0.300	-0.751	-0.772	-0.722	0.007
34	0.400	-0.789	-0.818	-0.746	0.009
35	0.500	-0.504	-0.725	-0.156	0.132
36	0.600	-0.101	-0.217	-0.022	0.020
37	0.700	-0.004	-0.049	0.053	0.013
38	0.800	-0.072	-0.106	-0.038	0.011

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.135	1.114	1.150	0.006
70	0.010	0.236	0.201	0.266	0.010
71	0.020	0.049	0.017	0.076	0.009
72	0.030	-0.074	-0.104	-0.049	0.008
73	0.040	-0.129	-0.154	-0.104	0.007
74	0.050	-0.215	-0.238	-0.196	0.006
75	0.075	-0.824	-0.841	-0.807	0.005
76	0.100	-0.764	-0.787	-0.740	0.007
77	0.150	-0.707	-0.770	-0.583	0.026
78	0.200	-0.636	-0.678	-0.595	0.010
79	0.250	-0.541	-0.571	-0.490	0.011
81	0.350	-0.487	-0.553	-0.331	0.024
82	0.400	-0.435	-0.538	-0.224	0.043
83	0.450	-0.403	-0.582	-0.265	0.048
84	0.500	-0.210	-0.392	-0.127	0.026
85	0.550	-0.140	-0.248	-0.070	0.018
86	0.600	-0.199	-0.271	-0.139	0.015
87	0.650	-0.046	-0.106	0.010	0.013
88	0.700	-0.145	-0.196	-0.097	0.012
89	0.750	0.003	-0.042	0.047	0.011
90	0.800	-0.045	-0.084	-0.005	0.011
91	0.850	-0.019	-0.051	0.017	0.010
92	0.900	0.131	0.100	0.164	0.009
93	0.950	0.234	0.203	0.264	0.009
94	1.000	0.045	0.024	0.067	0.007

Lower surface at ETA = 0.95

95	0.010	0.493	0.459	0.524	0.009
96	0.020	0.089	0.055	0.121	0.009
97	0.030	-0.041	-0.071	-0.014	0.008
98	0.050	-0.080	-0.104	-0.057	0.007
99	0.100	-0.336	-0.467	-0.279	0.023
100	0.200	-0.620	-0.648	-0.579	0.010
101	0.300	-0.481	-0.524	-0.399	0.017
102	0.400	-0.387	-0.516	-0.226	0.052
103	0.500	-0.154	-0.312	-0.079	0.022
104	0.600	-0.207	-0.279	-0.153	0.015
105	0.700	-0.130	-0.187	-0.082	0.012
106	0.800	-0.064	-0.104	-0.025	0.011
107	0.900	0.026	-0.008	0.061	0.010
108	0.950	0.157	0.126	0.187	0.009

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
587	0.85	136.7	1.98

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.143	1.124	1.156	0.005	69	0.000	1.136	1.115	1.154	0.005
2	0.010	0.313	0.284	0.344	0.009	70	0.010	0.161	0.125	0.195	0.010
3	0.020	-0.106	-0.134	-0.076	0.009	71	0.020	-0.025	-0.060	0.007	0.009
4	0.030	-0.201	-0.228	-0.172	0.008	72	0.030	-0.142	-0.175	-0.115	0.008
5	0.040	-0.210	-0.232	-0.186	0.006	73	0.040	-0.186	-0.213	-0.161	0.007
6	0.050	-0.029	-0.051	-0.009	0.006	74	0.050	-0.258	-0.282	-0.234	0.006
7	0.075	-0.661	-0.683	-0.646	0.005	75	0.075	-0.850	-0.864	-0.835	0.004
8	0.100	-0.785	-0.808	-0.764	0.005	76	0.100	-0.813	-0.830	-0.793	0.006
9	0.150	-0.793	-0.816	-0.768	0.007	77	0.150	-0.823	-0.855	-0.768	0.011
10	0.200	-0.754	-0.775	-0.722	0.006	78	0.200	-0.697	-0.731	-0.653	0.009
11	0.250	-0.881	-0.899	-0.854	0.005	79	0.250	-0.571	-0.614	-0.529	0.010
12	0.300	-0.800	-0.824	-0.777	0.006	81	0.350	-0.519	-0.586	-0.381	0.026
13	0.350	-0.958	-0.974	-0.935	0.005	82	0.400	-0.448	-0.559	-0.267	0.047
14	0.400	-0.958	-0.982	-0.747	0.014	83	0.450	-0.405	-0.619	-0.281	0.050
15	0.450	-0.760	-0.985	-0.401	0.143	84	0.500	-0.206	-0.372	-0.126	0.026
16	0.500	-0.425	-0.771	-0.329	0.041	85	0.550	-0.136	-0.232	-0.072	0.019
62	0.550	-0.221	-0.305	-0.152	0.020	86	0.600	-0.198	-0.264	-0.151	0.015
18	0.600	-0.313	-0.383	-0.233	0.019	87	0.650	-0.045	-0.097	-0.003	0.013
63	0.650	-0.247	-0.307	-0.173	0.018	88	0.700	-0.148	-0.191	-0.111	0.012
20	0.700	-0.075	-0.156	0.017	0.024	89	0.750	0.000	-0.040	0.036	0.011
21	0.750	-0.134	-0.220	-0.057	0.024	90	0.800	-0.050	-0.087	-0.016	0.010
22	0.800	-0.088	-0.178	-0.009	0.025	91	0.850	-0.026	-0.061	0.006	0.009
66	0.850	0.096	0.009	0.164	0.024	92	0.900	0.123	0.090	0.153	0.009
25	0.950	0.214	0.136	0.278	0.024	93	0.950	0.224	0.194	0.253	0.009
26	1.000	0.193	0.123	0.247	0.019	94	1.000	0.047	0.024	0.067	0.006
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.613	0.585	0.642	0.008	95	0.010	0.566	0.537	0.594	0.008
28	0.020	0.348	0.319	0.379	0.009	96	0.020	0.160	0.131	0.189	0.009
						97	0.030	0.039	0.012	0.066	0.008
30	0.050	0.154	0.131	0.177	0.006	98	0.050	-0.029	-0.050	-0.007	0.007
31	0.100	-0.203	-0.223	-0.178	0.006	99	0.100	-0.262	-0.287	-0.232	0.008
32	0.200	-0.456	-0.482	-0.435	0.006	100	0.200	-0.586	-0.618	-0.543	0.010
33	0.300	-0.698	-0.722	-0.672	0.007	101	0.300	-0.453	-0.504	-0.365	0.017
34	0.400	-0.737	-0.767	-0.698	0.009	102	0.400	-0.370	-0.492	-0.226	0.049
35	0.500	-0.464	-0.670	-0.145	0.128	103	0.500	-0.160	-0.277	-0.105	0.021
36	0.600	-0.110	-0.240	-0.056	0.017	104	0.600	-0.221	-0.276	-0.177	0.014
37	0.700	-0.034	-0.084	0.009	0.013	105	0.700	-0.145	-0.189	-0.107	0.012
38	0.800	-0.110	-0.146	-0.071	0.011	106	0.800	-0.081	-0.117	-0.046	0.010
						107	0.900	0.011	-0.022	0.044	0.009
						108	0.950	0.147	0.118	0.176	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
588	0.85	137.6	4.00

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.098	1.076	1.118	0.006
2	0.010	0.125	0.088	0.168	0.010
3	0.020	-0.286	-0.324	-0.246	0.010
4	0.030	-0.368	-0.401	-0.333	0.010
5	0.040	-0.343	-0.373	-0.313	0.008
6	0.050	-0.151	-0.180	-0.125	0.008
7	0.075	-0.706	-0.723	-0.693	0.005
8	0.100	-0.865	-0.885	-0.847	0.005
9	0.150	-0.926	-0.945	-0.905	0.006
10	0.200	-0.865	-0.883	-0.849	0.005
11	0.250	-1.007	-1.027	-0.991	0.006
12	0.300	-0.943	-0.962	-0.779	0.009
13	0.350	-0.814	-1.058	-0.462	0.146
14	0.400	-0.472	-0.850	-0.381	0.036
15	0.450	-0.437	-0.516	-0.380	0.016
16	0.500	-0.421	-0.478	-0.365	0.014
62	0.550	-0.278	-0.343	-0.204	0.016
18	0.600	-0.394	-0.457	-0.303	0.018
63	0.650	-0.351	-0.408	-0.268	0.016
20	0.700	-0.198	-0.262	-0.087	0.023
21	0.750	-0.271	-0.351	-0.151	0.027
22	0.800	-0.235	-0.319	-0.113	0.027
66	0.850	-0.065	-0.158	0.045	0.029
25	0.950	0.044	-0.043	0.142	0.027
26	1.000	0.037	-0.028	0.126	0.023

Lower surface at ETA = 0.60

27	0.010	0.748	0.724	0.773	0.008
28	0.020	0.496	0.470	0.523	0.009
30	0.050	0.266	0.241	0.289	0.007
31	0.100	-0.072	-0.095	-0.046	0.007
32	0.200	-0.333	-0.355	-0.301	0.007
33	0.300	-0.578	-0.605	-0.532	0.010
34	0.400	-0.608	-0.650	-0.419	0.019
35	0.500	-0.349	-0.562	-0.162	0.103
36	0.600	-0.171	-0.289	-0.101	0.025
37	0.700	-0.109	-0.170	-0.040	0.017
38	0.800	-0.191	-0.237	-0.131	0.014

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.095	1.077	1.113	0.006
70	0.010	-0.005	-0.040	0.030	0.010
71	0.020	-0.192	-0.223	-0.161	0.010
72	0.030	-0.298	-0.331	-0.264	0.010
73	0.040	-0.317	-0.347	-0.288	0.009
74	0.050	-0.364	-0.391	-0.336	0.008
75	0.075	-0.882	-0.896	-0.869	0.005
76	0.100	-0.877	-0.894	-0.861	0.005
77	0.150	-0.932	-0.955	-0.908	0.007
78	0.200	-0.800	-0.845	-0.742	0.014
79	0.250	-0.672	-0.710	-0.616	0.012
81	0.350	-0.576	-0.649	-0.334	0.029
82	0.400	-0.432	-0.609	-0.214	0.072
83	0.450	-0.357	-0.558	-0.256	0.042
84	0.500	-0.189	-0.281	-0.127	0.021
85	0.550	-0.138	-0.198	-0.088	0.016
86	0.600	-0.213	-0.257	-0.169	0.013
87	0.650	-0.067	-0.111	-0.023	0.012
88	0.700	-0.174	-0.216	-0.132	0.011
89	0.750	-0.028	-0.067	0.007	0.010
90	0.800	-0.080	-0.121	-0.044	0.010
91	0.850	-0.061	-0.102	-0.029	0.009
92	0.900	0.081	0.040	0.112	0.009
93	0.950	0.183	0.144	0.214	0.009
94	1.000	0.036	0.013	0.059	0.007

Lower surface at ETA = 0.95

95	0.010	0.693	0.662	0.722	0.008
96	0.020	0.293	0.264	0.322	0.009
97	0.030	0.180	0.153	0.209	0.008
98	0.050	0.080	0.052	0.110	0.008
99	0.100	-0.163	-0.192	-0.127	0.008
100	0.200	-0.505	-0.544	-0.459	0.010
101	0.300	-0.385	-0.446	-0.280	0.021
102	0.400	-0.331	-0.460	-0.187	0.044
103	0.500	-0.179	-0.317	-0.098	0.023
104	0.600	-0.251	-0.306	-0.185	0.016
105	0.700	-0.181	-0.229	-0.124	0.013
106	0.800	-0.118	-0.158	-0.076	0.011
107	0.900	-0.023	-0.064	0.008	0.009
108	0.950	0.120	0.088	0.148	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
589	0.82	139.0	-0.94

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.130	1.114	1.144	0.005	69	0.000	1.129	1.114	1.148	0.005
2	0.010	0.527	0.496	0.564	0.009	70	0.010	0.358	0.324	0.390	0.009
3	0.020	0.095	0.059	0.130	0.010	71	0.020	0.161	0.130	0.193	0.009
4	0.030	-0.030	-0.061	0.007	0.008	72	0.030	0.021	-0.008	0.051	0.009
5	0.040	-0.081	-0.109	-0.049	0.007	73	0.040	-0.060	-0.087	-0.030	0.008
6	0.050	0.055	0.032	0.080	0.006	74	0.050	-0.180	-0.202	-0.153	0.007
7	0.075	-0.445	-0.518	-0.384	0.019	75	0.075	-0.719	-0.802	-0.605	0.029
8	0.100	-0.445	-0.467	-0.415	0.007	76	0.100	-0.467	-0.488	-0.438	0.006
9	0.150	-0.584	-0.614	-0.546	0.008	77	0.150	-0.572	-0.615	-0.515	0.013
10	0.200	-0.573	-0.610	-0.529	0.010	78	0.200	-0.568	-0.631	-0.491	0.018
11	0.250	-0.722	-0.758	-0.671	0.012	79	0.250	-0.416	-0.504	-0.321	0.028
12	0.300	-0.659	-0.708	-0.512	0.016	81	0.350	-0.274	-0.379	-0.207	0.022
13	0.350	-0.740	-0.833	-0.422	0.070	82	0.400	-0.238	-0.309	-0.183	0.018
14	0.400	-0.459	-0.808	-0.323	0.088	83	0.450	-0.305	-0.367	-0.255	0.015
15	0.450	-0.354	-0.542	-0.279	0.027	84	0.500	-0.177	-0.234	-0.132	0.014
16	0.500	-0.319	-0.402	-0.247	0.022	85	0.550	-0.132	-0.185	-0.087	0.013
62	0.550	-0.150	-0.215	-0.089	0.019	86	0.600	-0.205	-0.248	-0.160	0.012
18	0.600	-0.251	-0.303	-0.202	0.016	87	0.650	-0.057	-0.098	-0.013	0.012
63	0.650	-0.193	-0.228	-0.158	0.011	88	0.700	-0.162	-0.206	-0.117	0.011
20	0.700	-0.026	-0.070	0.022	0.015	89	0.750	-0.015	-0.057	0.027	0.010
21	0.750	-0.098	-0.144	-0.056	0.012	90	0.800	-0.066	-0.105	-0.023	0.010
22	0.800	-0.056	-0.098	-0.013	0.010	91	0.850	-0.041	-0.077	-0.002	0.009
66	0.850	0.128	0.091	0.165	0.010	92	0.900	0.111	0.079	0.147	0.009
25	0.950	0.267	0.235	0.297	0.009	93	0.950	0.220	0.189	0.251	0.009
26	1.000	0.265	0.241	0.291	0.007	94	1.000	0.036	0.013	0.056	0.007
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.322	0.290	0.349	0.009	95	0.010	0.301	0.263	0.332	0.009
28	0.020	0.046	0.014	0.076	0.009	96	0.020	-0.114	-0.151	-0.085	0.009
						97	0.030	-0.182	-0.212	-0.155	0.008
30	0.050	-0.063	-0.086	-0.035	0.006	98	0.050	-0.234	-0.261	-0.211	0.007
31	0.100	-0.690	-0.717	-0.668	0.007	99	0.100	-0.658	-0.685	-0.614	0.009
32	0.200	-0.662	-0.699	-0.639	0.007	100	0.200	-0.650	-0.690	-0.608	0.011
33	0.300	-0.901	-0.935	-0.847	0.010	101	0.300	-0.421	-0.533	-0.309	0.034
34	0.400	-0.859	-0.964	-0.438	0.083	102	0.400	-0.263	-0.367	-0.196	0.021
35	0.500	-0.195	-0.320	-0.124	0.023	103	0.500	-0.131	-0.189	-0.080	0.015
36	0.600	-0.101	-0.162	-0.045	0.015	104	0.600	-0.195	-0.241	-0.152	0.012
37	0.700	-0.012	-0.063	0.038	0.014	105	0.700	-0.119	-0.162	-0.073	0.011
38	0.800	-0.072	-0.116	-0.030	0.012	106	0.800	-0.054	-0.090	-0.016	0.010
						107	0.900	0.034	0.000	0.067	0.009
						108	0.950	0.158	0.128	0.188	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
590	0.82	139.5	0.06

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.130	1.110	1.149	0.006	69	0.000	1.127	1.108	1.149	0.006
2	0.010	0.434	0.395	0.467	0.010	70	0.010	0.275	0.243	0.311	0.010
3	0.020	0.003	-0.032	0.034	0.009	71	0.020	0.079	0.049	0.113	0.009
4	0.030	-0.114	-0.147	-0.087	0.009	72	0.030	-0.054	-0.083	-0.017	0.009
5	0.040	-0.153	-0.182	-0.127	0.007	73	0.040	-0.122	-0.147	-0.094	0.008
6	0.050	0.001	-0.019	0.025	0.006	74	0.050	-0.226	-0.248	-0.201	0.007
7	0.075	-0.671	-0.700	-0.627	0.011	75	0.075	-0.869	-0.892	-0.825	0.009
8	0.100	-0.504	-0.682	-0.465	0.028	76	0.100	-0.582	-0.769	-0.460	0.066
9	0.150	-0.639	-0.658	-0.619	0.006	77	0.150	-0.600	-0.627	-0.564	0.008
10	0.200	-0.644	-0.665	-0.619	0.007	78	0.200	-0.618	-0.662	-0.550	0.016
11	0.250	-0.795	-0.822	-0.764	0.009	79	0.250	-0.474	-0.546	-0.375	0.027
12	0.300	-0.736	-0.772	-0.693	0.011	81	0.350	-0.298	-0.415	-0.212	0.028
13	0.350	-0.860	-0.904	-0.611	0.018	82	0.400	-0.246	-0.331	-0.183	0.020
14	0.400	-0.703	-0.898	-0.344	0.127	83	0.450	-0.307	-0.373	-0.253	0.016
15	0.450	-0.380	-0.758	-0.285	0.050	84	0.500	-0.175	-0.239	-0.125	0.014
16	0.500	-0.304	-0.390	-0.246	0.020	85	0.550	-0.128	-0.189	-0.080	0.013
62	0.550	-0.132	-0.193	-0.073	0.018	86	0.600	-0.199	-0.255	-0.150	0.012
18	0.600	-0.237	-0.294	-0.179	0.016	87	0.650	-0.050	-0.101	-0.001	0.011
63	0.650	-0.182	-0.219	-0.141	0.011	88	0.700	-0.154	-0.202	-0.105	0.011
20	0.700	-0.014	-0.061	0.038	0.014	89	0.750	-0.006	-0.048	0.036	0.010
21	0.750	-0.089	-0.132	-0.044	0.012	90	0.800	-0.056	-0.095	-0.013	0.010
22	0.800	-0.049	-0.085	-0.002	0.011	91	0.850	-0.031	-0.066	0.009	0.009
66	0.850	0.136	0.102	0.174	0.010	92	0.900	0.122	0.089	0.157	0.009
25	0.950	0.271	0.241	0.305	0.009	93	0.950	0.228	0.196	0.260	0.009
26	1.000	0.267	0.241	0.294	0.007	94	1.000	0.034	0.009	0.058	0.007
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.417	0.385	0.451	0.009	95	0.010	0.388	0.359	0.428	0.009
28	0.020	0.142	0.105	0.179	0.010	96	0.020	-0.027	-0.057	0.012	0.010
						97	0.030	-0.152	-0.178	-0.117	0.009
30	0.050	-0.001	-0.028	0.021	0.007	98	0.050	-0.175	-0.200	-0.148	0.007
31	0.100	-0.418	-0.568	-0.337	0.044	99	0.100	-0.450	-0.595	-0.341	0.052
32	0.200	-0.613	-0.637	-0.589	0.007	100	0.200	-0.643	-0.691	-0.575	0.016
33	0.300	-0.847	-0.881	-0.803	0.010	101	0.300	-0.387	-0.507	-0.285	0.035
34	0.400	-0.698	-0.908	-0.361	0.131	102	0.400	-0.251	-0.334	-0.186	0.020
35	0.500	-0.181	-0.262	-0.111	0.021	103	0.500	-0.128	-0.192	-0.074	0.015
36	0.600	-0.108	-0.163	-0.047	0.016	104	0.600	-0.197	-0.257	-0.147	0.012
37	0.700	-0.020	-0.069	0.031	0.013	105	0.700	-0.124	-0.176	-0.077	0.011
38	0.800	-0.080	-0.118	-0.039	0.011	106	0.800	-0.060	-0.104	-0.018	0.010
						107	0.900	0.030	-0.008	0.065	0.009
						108	0.950	0.157	0.123	0.191	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
591	0.82	139.6	1.05

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.130	1.111	1.147	0.005	69	0.000	1.125	1.106	1.143	0.005
2	0.010	0.337	0.308	0.371	0.009	70	0.010	0.186	0.157	0.226	0.010
3	0.020	-0.090	-0.121	-0.059	0.009	71	0.020	-0.006	-0.034	0.025	0.009
4	0.030	-0.197	-0.225	-0.170	0.008	72	0.030	-0.130	-0.155	-0.103	0.008
5	0.040	-0.220	-0.242	-0.197	0.006	73	0.040	-0.186	-0.212	-0.159	0.007
6	0.050	-0.052	-0.072	-0.028	0.006	74	0.050	-0.273	-0.294	-0.251	0.006
7	0.075	-0.728	-0.747	-0.709	0.005	75	0.075	-0.913	-0.930	-0.896	0.005
8	0.100	-0.812	-0.837	-0.781	0.008	76	0.100	-0.835	-0.864	-0.797	0.009
9	0.150	-0.751	-0.792	-0.675	0.016	77	0.150	-0.590	-0.665	-0.568	0.008
10	0.200	-0.691	-0.728	-0.665	0.007	78	0.200	-0.639	-0.700	-0.574	0.017
11	0.250	-0.849	-0.869	-0.820	0.007	79	0.250	-0.500	-0.583	-0.394	0.023
12	0.300	-0.808	-0.840	-0.760	0.010	81	0.350	-0.338	-0.506	-0.244	0.034
13	0.350	-0.931	-0.966	-0.879	0.011	82	0.400	-0.263	-0.402	-0.198	0.022
14	0.400	-0.887	-0.968	-0.409	0.071	83	0.450	-0.315	-0.398	-0.254	0.017
15	0.450	-0.471	-0.951	-0.315	0.080	84	0.500	-0.179	-0.242	-0.123	0.015
16	0.500	-0.323	-0.516	-0.255	0.025	85	0.550	-0.128	-0.184	-0.074	0.014
62	0.550	-0.130	-0.227	-0.068	0.017	86	0.600	-0.198	-0.244	-0.149	0.012
18	0.600	-0.228	-0.289	-0.170	0.015	87	0.650	-0.047	-0.087	-0.005	0.012
63	0.650	-0.171	-0.214	-0.134	0.011	88	0.700	-0.151	-0.190	-0.112	0.011
20	0.700	-0.003	-0.056	0.044	0.014	89	0.750	-0.002	-0.037	0.035	0.010
21	0.750	-0.079	-0.124	-0.035	0.013	90	0.800	-0.052	-0.087	-0.016	0.010
22	0.800	-0.040	-0.082	0.000	0.012	91	0.850	-0.027	-0.057	0.009	0.009
66	0.850	0.143	0.103	0.185	0.010	92	0.900	0.123	0.093	0.160	0.009
25	0.950	0.274	0.243	0.305	0.009	93	0.950	0.226	0.196	0.259	0.009
26	1.000	0.266	0.242	0.290	0.007	94	1.000	0.039	0.017	0.063	0.007
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.511	0.481	0.541	0.009	95	0.010	0.474	0.441	0.515	0.010
28	0.020	0.238	0.202	0.268	0.010	96	0.020	0.060	0.027	0.105	0.010
						97	0.030	-0.061	-0.094	-0.015	0.009
30	0.050	0.060	0.032	0.081	0.007	98	0.050	-0.115	-0.141	-0.077	0.008
31	0.100	-0.307	-0.330	-0.280	0.007	99	0.100	-0.325	-0.357	-0.278	0.010
32	0.200	-0.548	-0.581	-0.505	0.011	100	0.200	-0.597	-0.660	-0.512	0.018
33	0.300	-0.769	-0.813	-0.560	0.016	101	0.300	-0.346	-0.489	-0.259	0.029
34	0.400	-0.484	-0.834	-0.331	0.095	102	0.400	-0.244	-0.333	-0.187	0.019
35	0.500	-0.196	-0.272	-0.129	0.023	103	0.500	-0.130	-0.182	-0.083	0.015
36	0.600	-0.122	-0.173	-0.064	0.016	104	0.600	-0.204	-0.246	-0.163	0.012
37	0.700	-0.030	-0.078	0.020	0.013	105	0.700	-0.133	-0.174	-0.095	0.011
38	0.800	-0.087	-0.127	-0.044	0.011	106	0.800	-0.071	-0.104	-0.034	0.010
						107	0.900	0.018	-0.011	0.057	0.010
						108	0.950	0.149	0.122	0.183	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
592	0.82	139.5	2.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.122	1.101	1.136	0.005
2	0.010	0.241	0.203	0.273	0.010
3	0.020	-0.183	-0.220	-0.151	0.009
4	0.030	-0.280	-0.310	-0.252	0.008
5	0.040	-0.287	-0.311	-0.265	0.007
6	0.050	-0.110	-0.133	-0.084	0.008
7	0.075	-0.763	-0.783	-0.745	0.006
8	0.100	-0.884	-0.902	-0.860	0.006
9	0.150	-0.879	-0.905	-0.848	0.008
10	0.200	-0.830	-0.860	-0.794	0.008
11	0.250	-0.945	-0.979	-0.914	0.010
12	0.300	-0.871	-0.896	-0.846	0.008
13	0.350	-1.023	-1.051	-0.985	0.009
14	0.400	-0.987	-1.041	-0.594	0.046
15	0.450	-0.546	-0.931	-0.372	0.076
16	0.500	-0.376	-0.486	-0.290	0.029
62	0.550	-0.164	-0.250	-0.097	0.022
18	0.600	-0.242	-0.317	-0.180	0.017
63	0.650	-0.172	-0.217	-0.134	0.010
20	0.700	0.004	-0.048	0.048	0.012
21	0.750	-0.070	-0.113	-0.033	0.012
22	0.800	-0.031	-0.069	0.011	0.011
66	0.850	0.151	0.119	0.183	0.010
25	0.950	0.275	0.245	0.305	0.009
26	1.000	0.260	0.239	0.285	0.007

Lower surface at ETA = 0.60

27	0.010	0.597	0.566	0.632	0.009
28	0.020	0.327	0.293	0.368	0.010
30	0.050	0.122	0.092	0.148	0.008
31	0.100	-0.234	-0.268	-0.189	0.010
32	0.200	-0.470	-0.511	-0.386	0.014
33	0.300	-0.666	-0.741	-0.509	0.045
34	0.400	-0.431	-0.659	-0.320	0.045
35	0.500	-0.208	-0.292	-0.152	0.020
36	0.600	-0.129	-0.181	-0.080	0.015
37	0.700	-0.037	-0.077	0.009	0.012
38	0.800	-0.095	-0.132	-0.056	0.010

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.116	1.095	1.132	0.005
70	0.010	0.098	0.060	0.133	0.010
71	0.020	-0.094	-0.131	-0.060	0.010
72	0.030	-0.208	-0.244	-0.180	0.009
73	0.040	-0.251	-0.284	-0.224	0.007
74	0.050	-0.323	-0.354	-0.300	0.006
75	0.075	-0.943	-0.963	-0.929	0.004
76	0.100	-0.894	-0.918	-0.871	0.006
77	0.150	-0.740	-0.847	-0.639	0.032
78	0.200	-0.700	-0.734	-0.662	0.009
79	0.250	-0.556	-0.620	-0.466	0.024
81	0.350	-0.366	-0.483	-0.248	0.034
82	0.400	-0.282	-0.396	-0.203	0.026
83	0.450	-0.324	-0.391	-0.264	0.018
84	0.500	-0.184	-0.241	-0.128	0.015
85	0.550	-0.132	-0.186	-0.079	0.014
86	0.600	-0.201	-0.250	-0.148	0.013
87	0.650	-0.049	-0.095	-0.003	0.012
88	0.700	-0.153	-0.192	-0.107	0.011
89	0.750	-0.004	-0.038	0.036	0.010
90	0.800	-0.055	-0.089	-0.014	0.010
91	0.850	-0.033	-0.063	0.005	0.009
92	0.900	0.115	0.086	0.148	0.009
93	0.950	0.215	0.188	0.244	0.009
94	1.000	0.042	0.021	0.063	0.007

Lower surface at ETA = 0.95

95	0.010	0.552	0.520	0.587	0.010
96	0.020	0.140	0.105	0.179	0.010
97	0.030	0.028	-0.004	0.068	0.011
98	0.050	-0.056	-0.084	-0.021	0.009
99	0.100	-0.275	-0.309	-0.234	0.011
100	0.200	-0.551	-0.609	-0.480	0.020
101	0.300	-0.319	-0.414	-0.229	0.025
102	0.400	-0.240	-0.311	-0.174	0.018
103	0.500	-0.134	-0.192	-0.080	0.014
104	0.600	-0.212	-0.261	-0.163	0.012
105	0.700	-0.143	-0.188	-0.098	0.011
106	0.800	-0.083	-0.118	-0.045	0.010
107	0.900	0.006	-0.025	0.040	0.009
108	0.950	0.140	0.113	0.168	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
593	0.82	139.9	3.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.099	1.078	1.116	0.005	69	0.000	1.096	1.080	1.114	0.005
2	0.010	0.132	0.091	0.171	0.010	70	0.010	0.006	-0.033	0.047	0.010
3	0.020	-0.283	-0.320	-0.243	0.010	71	0.020	-0.185	-0.221	-0.147	0.010
4	0.030	-0.370	-0.402	-0.342	0.009	72	0.030	-0.291	-0.323	-0.257	0.009
5	0.040	-0.358	-0.386	-0.334	0.008	73	0.040	-0.318	-0.345	-0.291	0.008
6	0.050	-0.171	-0.199	-0.147	0.007	74	0.050	-0.376	-0.400	-0.351	0.007
7	0.075	-0.791	-0.807	-0.778	0.004	75	0.075	-0.966	-0.980	-0.952	0.004
8	0.100	-0.933	-0.951	-0.914	0.005	76	0.100	-0.937	-0.958	-0.920	0.005
9	0.150	-0.966	-0.988	-0.941	0.006	77	0.150	-0.891	-0.961	-0.792	0.024
10	0.200	-0.911	-0.930	-0.889	0.006	78	0.200	-0.744	-0.795	-0.683	0.017
11	0.250	-1.034	-1.059	-1.008	0.007	79	0.250	-0.603	-0.653	-0.526	0.016
12	0.300	-0.952	-0.983	-0.923	0.008	81	0.350	-0.394	-0.519	-0.271	0.041
13	0.350	-1.077	-1.099	-1.048	0.008	82	0.400	-0.295	-0.412	-0.210	0.030
14	0.400	-0.934	-1.090	-0.518	0.118	83	0.450	-0.332	-0.416	-0.269	0.020
15	0.450	-0.518	-0.771	-0.404	0.042	84	0.500	-0.189	-0.254	-0.134	0.016
16	0.500	-0.420	-0.504	-0.328	0.025	85	0.550	-0.137	-0.193	-0.086	0.015
62	0.550	-0.218	-0.298	-0.128	0.026	86	0.600	-0.206	-0.254	-0.159	0.013
18	0.600	-0.293	-0.374	-0.221	0.024	87	0.650	-0.055	-0.095	-0.011	0.012
63	0.650	-0.213	-0.284	-0.164	0.017	88	0.700	-0.159	-0.196	-0.118	0.011
20	0.700	-0.029	-0.105	0.020	0.019	89	0.750	-0.012	-0.047	0.028	0.010
21	0.750	-0.090	-0.158	-0.046	0.013	90	0.800	-0.063	-0.098	-0.027	0.010
22	0.800	-0.045	-0.107	-0.007	0.011	91	0.850	-0.043	-0.077	-0.007	0.009
66	0.850	0.139	0.082	0.169	0.010	92	0.900	0.099	0.067	0.131	0.009
25	0.950	0.259	0.221	0.289	0.009	93	0.950	0.198	0.169	0.230	0.008
26	1.000	0.238	0.202	0.270	0.008	94	1.000	0.039	0.019	0.063	0.007
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.677	0.643	0.710	0.009	95	0.010	0.624	0.591	0.653	0.010
28	0.020	0.413	0.376	0.455	0.010	96	0.020	0.216	0.180	0.248	0.010
						97	0.030	0.112	0.076	0.146	0.010
30	0.050	0.188	0.156	0.218	0.009	98	0.050	0.006	-0.030	0.039	0.009
31	0.100	-0.153	-0.191	-0.116	0.011	99	0.100	-0.219	-0.259	-0.174	0.012
32	0.200	-0.389	-0.443	-0.324	0.018	100	0.200	-0.506	-0.570	-0.436	0.019
33	0.300	-0.561	-0.672	-0.443	0.037	101	0.300	-0.301	-0.388	-0.236	0.021
34	0.400	-0.424	-0.598	-0.347	0.030	102	0.400	-0.239	-0.316	-0.185	0.017
35	0.500	-0.210	-0.281	-0.145	0.018	103	0.500	-0.139	-0.196	-0.085	0.014
36	0.600	-0.136	-0.186	-0.087	0.013	104	0.600	-0.220	-0.267	-0.179	0.012
37	0.700	-0.049	-0.089	-0.009	0.011	105	0.700	-0.153	-0.194	-0.115	0.011
38	0.800	-0.112	-0.148	-0.074	0.010	106	0.800	-0.095	-0.129	-0.059	0.010
						107	0.900	-0.007	-0.038	0.031	0.009
						108	0.950	0.130	0.101	0.163	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
594	0.82	140.3	4.02

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.071	1.045	1.090	0.006	69	0.000	1.073	1.052	1.092	0.005
2	0.010	0.030	-0.010	0.064	0.011	70	0.010	-0.083	-0.119	-0.041	0.011
3	0.020	-0.385	-0.424	-0.354	0.011	71	0.020	-0.276	-0.311	-0.233	0.010
4	0.030	-0.464	-0.500	-0.434	0.010	72	0.030	-0.376	-0.411	-0.338	0.010
5	0.040	-0.433	-0.462	-0.407	0.008	73	0.040	-0.390	-0.421	-0.355	0.009
6	0.050	-0.238	-0.273	-0.213	0.009	74	0.050	-0.433	-0.463	-0.405	0.008
7	0.075	-0.807	-0.824	-0.792	0.005	75	0.075	-0.984	-0.996	-0.969	0.004
8	0.100	-0.969	-0.987	-0.954	0.004	76	0.100	-0.968	-0.986	-0.951	0.005
9	0.150	-1.029	-1.050	-1.011	0.007	77	0.150	-0.977	-1.021	-0.913	0.014
10	0.200	-0.965	-0.981	-0.946	0.005	78	0.200	-0.799	-0.842	-0.737	0.015
11	0.250	-1.105	-1.126	-1.084	0.006	79	0.250	-0.643	-0.723	-0.552	0.020
12	0.300	-1.033	-1.061	-0.876	0.009	81	0.350	-0.405	-0.565	-0.225	0.051
13	0.350	-0.957	-1.152	-0.559	0.153	82	0.400	-0.286	-0.415	-0.182	0.030
14	0.400	-0.554	-1.099	-0.445	0.063	83	0.450	-0.326	-0.416	-0.249	0.020
15	0.450	-0.489	-0.616	-0.398	0.021	84	0.500	-0.188	-0.256	-0.127	0.016
16	0.500	-0.447	-0.519	-0.342	0.020	85	0.550	-0.140	-0.196	-0.086	0.014
62	0.550	-0.273	-0.344	-0.171	0.023	86	0.600	-0.212	-0.258	-0.165	0.012
18	0.600	-0.361	-0.437	-0.264	0.026	87	0.650	-0.063	-0.104	-0.021	0.011
63	0.650	-0.290	-0.358	-0.203	0.023	88	0.700	-0.167	-0.209	-0.126	0.011
20	0.700	-0.113	-0.208	-0.017	0.028	89	0.750	-0.021	-0.058	0.014	0.010
21	0.750	-0.166	-0.275	-0.088	0.028	90	0.800	-0.075	-0.112	-0.040	0.010
22	0.800	-0.116	-0.213	-0.042	0.026	91	0.850	-0.059	-0.093	-0.026	0.009
66	0.850	0.070	-0.018	0.137	0.025	92	0.900	0.080	0.048	0.111	0.009
25	0.950	0.186	0.113	0.262	0.023	93	0.950	0.180	0.147	0.208	0.008
26	1.000	0.169	0.083	0.228	0.019	94	1.000	0.035	0.014	0.056	0.007
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.748	0.718	0.779	0.009	95	0.010	0.689	0.656	0.724	0.009
28	0.020	0.492	0.458	0.527	0.010	96	0.020	0.287	0.251	0.323	0.010
						97	0.030	0.189	0.153	0.225	0.010
30	0.050	0.252	0.217	0.286	0.009	98	0.050	0.067	0.032	0.103	0.010
31	0.100	-0.080	-0.121	-0.035	0.011	99	0.100	-0.164	-0.208	-0.121	0.011
32	0.200	-0.318	-0.374	-0.254	0.017	100	0.200	-0.467	-0.532	-0.408	0.017
33	0.300	-0.504	-0.601	-0.419	0.026	101	0.300	-0.288	-0.363	-0.218	0.020
34	0.400	-0.413	-0.517	-0.343	0.026	102	0.400	-0.240	-0.300	-0.173	0.017
35	0.500	-0.216	-0.287	-0.157	0.018	103	0.500	-0.146	-0.195	-0.089	0.014
36	0.600	-0.152	-0.205	-0.101	0.014	104	0.600	-0.230	-0.270	-0.184	0.012
37	0.700	-0.075	-0.124	-0.028	0.013	105	0.700	-0.166	-0.203	-0.128	0.011
38	0.800	-0.145	-0.184	-0.097	0.012	106	0.800	-0.110	-0.143	-0.077	0.010
						107	0.900	-0.019	-0.051	0.010	0.009
						108	0.950	0.119	0.091	0.146	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
595	0.82	140.6	4.99

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.034	1.010	1.059	0.006	69	0.000	1.044	1.023	1.063	0.006
2	0.010	-0.077	-0.114	-0.033	0.011	70	0.010	-0.176	-0.209	-0.137	0.011
3	0.020	-0.496	-0.532	-0.456	0.012	71	0.020	-0.371	-0.402	-0.337	0.010
4	0.030	-0.580	-0.619	-0.540	0.012	72	0.030	-0.475	-0.508	-0.438	0.011
5	0.040	-0.531	-0.568	-0.497	0.011	73	0.040	-0.482	-0.518	-0.447	0.011
6	0.050	-0.329	-0.367	-0.295	0.010	74	0.050	-0.512	-0.544	-0.478	0.011
7	0.075	-0.809	-0.826	-0.793	0.005	75	0.075	-0.992	-1.006	-0.976	0.003
8	0.100	-1.001	-1.016	-0.983	0.004	76	0.100	-0.992	-1.006	-0.978	0.004
9	0.150	-1.089	-1.110	-1.070	0.005	77	0.150	-1.029	-1.057	-0.985	0.009
10	0.200	-1.012	-1.033	-0.997	0.005	78	0.200	-0.844	-0.896	-0.791	0 012
11	0.250	-1.161	-1.182	-0.982	0.007	79	0.250	-0.697	-0.762	-0.596	0.020
12	0.300	-0.876	-1.093	-0.451	0.155	81	0.350	-0.397	-0.599	-0.244	0.061
13	0.350	-0.584	-0.991	-0.491	0.047	82	0.400	-0.273	-0.423	-0.198	0.030
14	0.400	-0.512	-0.594	-0.450	0.019	83	0.450	-0.321	-0.392	-0.262	0.019
15	0.450	-0.496	-0.584	-0.432	0.018	84	0.500	-0.192	-0.244	-0.143	0.015
16	0.500	-0.471	-0.549	-0.391	0.020	85	0.550	-0.149	-0.192	-0.103	0.013
62	0.550	-0.313	-0.389	-0.211	0.023	86	0.600	-0.223	-0.261	-0.181	0.012
18	0.600	-0.412	-0.490	-0.299	0.025	87	0.650	-0.077	-0.115	-0.040	0.011
63	0.650	-0.354	-0.426	-0.268	0.022	88	0.700	-0.181	-0.220	-0.146	0.010
20	0.700	-0.189	-0.296	-0.075	0.030	89	0.750	-0.040	-0.077	0.000	0.010
21	0.750	-0.250	-0.363	-0.136	0.032	90	0.800	-0.098	-0.134	-0.060	0.010
22	0.800	-0.205	-0.321	-0.084	0.031	91	0.850	-0.083	-0.120	-0.050	0.009
66	0.850	-0.028	-0.130	0.084	0.031	92	0.900	0.053	0.018	0.085	0.009
25	0.950	0.085	-0.014	0.172	0.027	93	0.950	0.155	0.124	0.187	0.009
26	1.000	0.076	-0.010	0.160	0.023	94	1.000	0.027	0.001	0.048	0.006
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.814	0.783	0.844	0.009	95	0.010	0.751	0.716	0.781	0.009
28	0.020	0.568	0.530	0.601	0.010	96	0.020	0.354	0.316	0.385	0.009
						97	0.030	0.265	0.224	0.294	0.009
30	0.050	0.317	0.281	0.347	0.010	98	0.050	0.128	0.091	0.160	0.009
31	0.100	-0.009	-0.051	0.025	0.010	99	0.100	-0.112	-0.153	-0.069	0.011
32	0.200	-0.252	-0.307	-0.202	0.015	100	0.200	-0.430	-0.490	-0.378	0.016
33	0.300	-0.453	-0.539	-0.390	0.021	101	0.300	-0.273	-0.356	-0.210	0.018
34	0.400	-0.394	-0.498	-0.321	0.022	102	0.400	-0.239	-0.322	-0.181	0.017
35	0.500	-0.218	-0.296	-0.147	0.018	103	0.500	-0.152	-0.212	-0.098	0.015
36	0.600	-0.164	-0.214	-0.102	0.016	104	0.600	-0.241	-0.286	-0.198	0.013
37	0.700	-0.098	-0.147	-0.049	0.014	105	0.700	-0.180	-0.223	-0.141	0.011
38	0.800	-0.177	-0.225	-0.133	0.013	106	0.800	-0.125	-0.162	-0.089	0.010
						107	0.900	-0.034	-0.068	0.001	0.009
						108	0.950	0.105	0.075	0.136	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
596	0.82	140.6	5.98

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.992	0.969	1.016	0.006	69	0.000	1.012	0.993	1.034	0.006
2	0.010	-0.188	-0.224	-0.149	0.011	70	0.010	-0.270	-0.308	-0.229	0.011
3	0.020	-0.612	-0.646	-0.571	0.011	71	0.020	-0.468	-0.503	-0.432	0.010
4	0.030	-0.712	-0.751	-0.670	0.011	72	0.030	-0.580	-0.616	-0.540	0.010
5	0.040	-0.703	-0.761	-0.635	0.020	73	0.040	-0.624	-0.678	-0.569	0.017
6	0.050	-0.490	-0.551	-0.428	0.020	74	0.050	-0.648	-0.719	-0.588	0.021
7	0.075	-0.823	-0.840	-0.803	0.005	75	0.075	-0.990	-1.003	-0.973	0.004
8	0.100	-1.015	-1.026	-1.004	0.003	76	0.100	-1.001	-1.014	-0.986	0.004
9	0.150	-1.136	-1.150	-1.120	0.004	77	0.150	-1.066	-1.091	-1.031	0.008
10	0.200	-1.059	-1.079	-1.039	0.005	78	0.200	-0.891	-0.943	-0.836	0.016
11	0.250	-1.101	-1.219	-0.673	0.109	79	0.250	-0.740	-0.796	-0.652	0.018
12	0.300	-0.532	-0.982	-0.418	0.062	81	0.350	-0.374	-0.600	-0.244	0.062
13	0.350	-0.558	-0.646	-0.494	0.020	82	0.400	-0.264	-0.395	-0.198	0.025
14	0.400	-0.519	-0.582	-0.457	0.018	83	0.450	-0.325	-0.402	-0.274	0.016
15	0.450	-0.512	-0.578	-0.452	0.018	84	0.500	-0.205	-0.258	-0.159	0.013
16	0.500	-0.492	-0.563	-0.432	0.019	85	0.550	-0.166	-0.211	-0.124	0.012
62	0.550	-0.342	-0.418	-0.271	0.022	86	0.600	-0.242	-0.285	-0.203	0.011
18	0.600	-0.447	-0.533	-0.366	0.024	87	0.650	-0.098	-0.140	-0.063	0.011
63	0.650	-0.399	-0.466	-0.330	0.021	88	0.700	-0.205	-0.240	-0.171	0.011
20	0.700	-0.246	-0.338	-0.148	0.028	89	0.750	-0.068	-0.102	-0.037	0.010
21	0.750	-0.315	-0.422	-0.201	0.032	90	0.800	-0.127	-0.162	-0.094	0.010
22	0.800	-0.279	-0.385	-0.171	0.030	91	0.850	-0.115	-0.150	-0.082	0.010
66	0.850	-0.112	-0.207	0.011	0.031	92	0.900	0.020	-0.014	0.050	0.009
25	0.950	-0.009	-0.104	0.084	0.028	93	0.950	0.123	0.092	0.156	0.009
26	1.000	-0.014	-0.099	0.065	0.025	94	1.000	0.016	-0.005	0.048	0.006
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.880	0.851	0.909	0.008	95	0.010	0.812	0.781	0.841	0.009
28	0.020	0.643	0.609	0.676	0.010	96	0.020	0.420	0.391	0.456	0.010
						97	0.030	0.338	0.307	0.370	0.009
30	0.050	0.383	0.353	0.415	0.009	98	0.050	0.187	0.156	0.220	0.009
31	0.100	0.066	0.030	0.104	0.011	99	0.100	-0.057	-0.096	-0.020	0.011
32	0.200	-0.190	-0.234	-0.143	0.014	100	0.200	-0.394	-0.441	-0.342	0.014
33	0.300	-0.404	-0.459	-0.342	0.017	101	0.300	-0.257	-0.311	-0.197	0.017
34	0.400	-0.370	-0.443	-0.308	0.019	102	0.400	-0.238	-0.290	-0.180	0.017
35	0.500	-0.214	-0.276	-0.159	0.017	103	0.500	-0.160	-0.210	-0.108	0.015
36	0.600	-0.174	-0.225	-0.122	0.015	104	0.600	-0.253	-0.299	-0.207	0.013
37	0.700	-0.119	-0.163	-0.073	0.014	105	0.700	-0.195	-0.235	-0.156	0.012
38	0.800	-0.207	-0.250	-0.161	0.014	106	0.800	-0.141	-0.176	-0.105	0.010
						107	0.900	-0.050	-0.083	-0.020	0.009
						108	0.950	0.089	0.060	0.115	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
597	0.81	138.9	-0.92

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.125	1.110	1.141	0.005
2	0.010	0.522	0.489	0.557	0.009
3	0.020	0.086	0.052	0.123	0.009
4	0.030	-0.040	-0.072	-0.007	0.009
5	0.040	-0.094	-0.121	-0.066	0.008
6	0.050	0.044	0.021	0.068	0.007
7	0.075	-0.439	-0.500	-0.379	0.016
8	0.100	-0.457	-0.482	-0.426	0.008
9	0.150	-0.592	-0.622	-0.544	0.010
10	0.200	-0.576	-0.608	-0.486	0.012
11	0.250	-0.723	-0.759	-0.587	0.015
12	0.300	-0.635	-0.699	-0.392	0.044
13	0.350	-0.582	-0.820	-0.395	0.097
14	0.400	-0.411	-0.675	-0.326	0.036
15	0.450	-0.370	-0.476	-0.295	0.023
16	0.500	-0.332	-0.404	-0.270	0.019
62	0.550	-0.156	-0.215	-0.103	0.017
18	0.600	-0.257	-0.307	-0.207	0.014
63	0.650	-0.198	-0.234	-0.167	0.010
20	0.700	-0.028	-0.073	0.014	0.014
21	0.750	-0.102	-0.140	-0.064	0.011
22	0.800	-0.060	-0.094	-0.022	0.010
66	0.850	0.127	0.096	0.161	0.010
25	0.950	0.266	0.238	0.298	0.009
26	1.000	0.265	0.244	0.287	0.007

Lower surface at ETA = 0.60

27	0.010	0.307	0.275	0.335	0.009
28	0.020	0.029	-0.005	0.059	0.009
30	0.050	-0.081	-0.106	-0.058	0.007
31	0.100	-0.715	-0.736	-0.686	0.007
32	0.200	-0.679	-0.704	-0.648	0.007
33	0.300	-0.906	-0.942	-0.861	0.013
34	0.400	-0.652	-0.962	-0.376	0.129
35	0.500	-0.187	-0.267	-0.120	0.019
36	0.600	-0.111	-0.166	-0.057	0.015
37	0.700	-0.020	-0.064	0.027	0.013
38	0.800	-0.080	-0.114	-0.033	0.011

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.125	1.111	1.145	0.005
70	0.010	0.352	0.317	0.384	0.010
71	0.020	0.155	0.122	0.188	0.010
72	0.030	0.014	-0.017	0.047	0.009
73	0.040	-0.068	-0.096	-0.038	0.009
74	0.050	-0.191	-0.216	-0.162	0.007
75	0.075	-0.676	-0.788	-0.548	0.033
76	0.100	-0.479	-0.507	-0.445	0.008
77	0.150	-0.564	-0.623	-0.508	0.015
78	0.200	-0.548	-0.627	-0.473	0.021
79	0.250	-0.380	-0.484	-0.300	0.025
81	0.350	-0.258	-0.343	-0.193	0.019
82	0.400	-0.228	-0.296	-0.169	0.016
83	0.450	-0.300	-0.359	-0.247	0.014
84	0.500	-0.173	-0.223	-0.124	0.013
85	0.550	-0.129	-0.176	-0.082	0.013
86	0.600	-0.205	-0.247	-0.163	0.011
87	0.650	-0.055	-0.097	-0.016	0.011
88	0.700	-0.163	-0.204	-0.129	0.011
89	0.750	-0.015	-0.048	0.018	0.010
90	0.800	-0.068	-0.100	-0.033	0.010
91	0.850	-0.043	-0.073	-0.009	0.009
92	0.900	0.110	0.084	0.141	0.009
93	0.950	0.219	0.191	0.249	0.008
94	1.000	0.033	0.013	0.058	0.006

Lower surface at ETA = 0.95

95	0.010	0.290	0.253	0.321	0.009
96	0.020	-0.130	-0.164	-0.099	0.009
97	0.030	-0.202	-0.230	-0.170	0.009
98	0.050	-0.247	-0.272	-0.225	0.007
99	0.100	-0.667	-0.702	-0.580	0.013
100	0.200	-0.661	-0.696	-0.608	0.012
101	0.300	-0.379	-0.484	-0.289	0.029
102	0.400	-0.249	-0.321	-0.185	0.018
103	0.500	-0.124	-0.174	-0.076	0.014
104	0.600	-0.194	-0.237	-0.154	0.012
105	0.700	-0.120	-0.160	-0.084	0.011
106	0.800	-0.057	-0.090	-0.020	0.009
107	0.900	0.032	0.000	0.066	0.009
108	0.950	0.156	0.130	0.185	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
598	0.81	139.3	0.02

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.128	1.109	1.141	0.004
2	0.010	0.426	0.393	0.457	0.009
3	0.020	-0.010	-0.038	0.022	0.009
4	0.030	-0.128	-0.157	-0.098	0.008
5	0.040	-0.168	-0.194	-0.144	0.007
6	0.050	-0.013	-0.066	0.007	0.006
7	0.075	-0.682	-0.721	-0.623	0.014
8	0.100	-0.504	-0.578	-0.485	0.009
9	0.150	-0.660	-0.677	-0.636	0.005
10	0.200	-0.656	-0.682	-0.623	0.008
11	0.250	-0.806	-0.840	-0.767	0.010
12	0.300	-0.739	-0.778	-0.638	0.013
13	0.350	-0.824	-0.906	-0.464	0.063
14	0.400	-0.479	-0.867	-0.327	0.092
15	0.450	-0.355	-0.504	-0.290	0.023
16	0.500	-0.317	-0.403	-0.253	0.020
62	0.550	-0.145	-0.231	-0.089	0.018
18	0.600	-0.250	-0.326	-0.198	0.015
63	0.650	-0.192	-0.245	-0.160	0.010
20	0.700	-0.021	-0.094	0.023	0.014
21	0.750	-0.094	-0.151	-0.052	0.011
22	0.800	-0.057	-0.103	-0.013	0.010
66	0.850	0.133	0.090	0.170	0.010
25	0.950	0.269	0.233	0.303	0.009
26	1.000	0.267	0.230	0.290	0.007

Lower surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
27	0.010	0.407	0.372	0.443	0.009
28	0.020	0.130	0.092	0.167	0.009
30	0.050	-0.018	-0.045	0.008	0.009
31	0.100	-0.392	-0.587	-0.353	0.025
32	0.200	-0.629	-0.654	-0.598	0.008
33	0.300	-0.854	-0.895	-0.779	0.013
34	0.400	-0.484	-0.882	-0.347	0.089
35	0.500	-0.191	-0.301	-0.128	0.020
36	0.600	-0.119	-0.200	-0.068	0.016
37	0.700	-0.026	-0.093	0.015	0.012
38	0.800	-0.086	-0.139	-0.051	0.010

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.126	1.109	1.142	0.005
70	0.010	0.267	0.228	0.302	0.010
71	0.020	0.071	0.037	0.101	0.009
72	0.030	-0.063	-0.098	-0.035	0.009
73	0.040	-0.133	-0.159	-0.105	0.008
74	0.050	-0.239	-0.263	-0.215	0.007
75	0.075	-0.879	-0.916	-0.823	0.013
76	0.100	-0.507	-0.713	-0.468	0.029
77	0.150	-0.610	-0.640	-0.563	0.010
78	0.200	-0.605	-0.670	-0.522	0.019
79	0.250	-0.435	-0.537	-0.337	0.028
81	0.350	-0.275	-0.374	-0.209	0.021
82	0.400	-0.235	-0.314	-0.179	0.017
83	0.450	-0.303	-0.380	-0.254	0.015
84	0.500	-0.172	-0.245	-0.128	0.013
85	0.550	-0.126	-0.196	-0.087	0.013
86	0.600	-0.200	-0.262	-0.160	0.012
87	0.650	-0.049	-0.105	-0.010	0.011
88	0.700	-0.156	-0.209	-0.117	0.011
89	0.750	-0.006	-0.054	0.027	0.010
90	0.800	-0.058	-0.105	-0.023	0.010
91	0.850	-0.033	-0.071	0.000	0.009
92	0.900	0.121	0.083	0.152	0.009
93	0.950	0.228	0.193	0.258	0.008
94	1.000	0.030	0.008	0.051	0.006

Lower surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
95	0.010	0.381	0.351	0.418	0.009
96	0.020	-0.040	-0.069	-0.004	0.010
97	0.030	-0.109	-0.136	-0.075	0.009
98	0.050	-0.185	-0.207	-0.155	0.007
99	0.100	-0.393	-0.558	-0.340	0.028
100	0.200	-0.632	-0.698	-0.564	0.018
101	0.300	-0.348	-0.473	-0.269	0.027
102	0.400	-0.240	-0.328	-0.186	0.017
103	0.500	-0.122	-0.196	-0.076	0.014
104	0.600	-0.197	-0.259	-0.155	0.012
105	0.700	-0.125	-0.178	-0.085	0.011
106	0.800	-0.063	-0.106	-0.029	0.009
107	0.900	0.028	-0.006	0.060	0.009
108	0.950	0.156	0.122	0.184	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
599	0.81	139.4	1.05

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.125	1.107	1.139	0.005	69	0.000	1.121	1.104	1.141	0.005
2	0.010	0.321	0.286	0.357	0.009	70	0.010	0.171	0.135	0.207	0.010
3	0.020	-0.111	-0.145	-0.079	0.009	71	0.020	-0.021	-0.054	0.012	0.009
4	0.030	-0.219	-0.249	-0.190	0.008	72	0.030	-0.145	-0.174	-0.112	0.008
5	0.040	-0.242	-0.265	-0.220	0.006	73	0.040	-0.201	-0.230	-0.173	0.007
6	0.050	-0.071	-0.099	-0.050	0.006	74	0.050	-0.291	-0.315	-0.266	0.006
7	0.075	-0.755	-0.772	-0.738	0.005	75	0.075	-0.941	-0.957	-0.920	0.005
8	0.100	-0.838	-0.867	-0.812	0.007	76	0.100	-0.847	-0.883	-0.727	0.014
9	0.150	-0.752	-0.814	-0.679	0.024	77	0.150	-0.619	-0.642	-0.584	0.006
10	0.200	-0.706	-0.739	-0.673	0.007	78	0.200	-0.627	-0.674	-0.553	0.015
11	0.250	-0.865	-0.894	-0.830	0.008	79	0.250	-0.464	-0.548	-0.375	0.025
12	0.300	-0.810	-0.851	-0.759	0.013	81	0.350	-0.297	-0.437	-0.224	0.024
13	0.350	-0.931	-0.974	-0.616	0.020	82	0.400	-0.245	-0.346	-0.190	0.018
14	0.400	-0.662	-0.954	-0.360	0.134	83	0.450	-0.308	-0.379	-0.262	0.015
15	0.450	-0.379	-0.732	-0.297	0.034	84	0.500	-0.174	-0.231	-0.132	0.014
16	0.500	-0.311	-0.413	-0.251	0.019	85	0.550	-0.126	-0.173	-0.088	0.013
62	0.550	-0.134	-0.200	-0.083	0.017	86	0.600	-0.199	-0.245	-0.164	0.012
18	0.600	-0.241	-0.295	-0.192	0.016	87	0.650	-0.046	-0.088	-0.008	0.011
63	0.650	-0.183	-0.224	-0.150	0.011	88	0.700	-0.154	-0.192	-0.119	0.011
20	0.700	-0.012	-0.061	0.035	0.014	89	0.750	-0.002	-0.038	0.031	0.010
21	0.750	-0.089	-0.134	-0.048	0.012	90	0.800	-0.054	-0.091	-0.020	0.010
22	0.800	-0.050	-0.094	-0.007	0.011	91	0.850	-0.030	-0.064	0.002	0.009
66	0.850	0.139	0.102	0.176	0.010	92	0.900	0.123	0.089	0.151	0.009
25	0.950	0.273	0.241	0.303	0.009	93	0.950	0.227	0.198	0.252	0.008
26	1.000	0.266	0.240	0.292	0.007	94	1.000	0.035	0.013	0.056	0.007
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.506	0.468	0.538	0.009	95	0.010	0.469	0.439	0.510	0.010
28	0.020	0.230	0.192	0.264	0.010	96	0.020	0.051	0.019	0.095	0.010
						97	0.030	-0.079	-0.109	-0.042	0.010
30	0.050	0.049	0.021	0.073	0.008	98	0.050	-0.122	-0.148	-0.085	0.008
31	0.100	-0.318	-0.345	-0.282	0.008	99	0.100	-0.326	-0.363	-0.276	0.011
32	0.200	-0.550	-0.594	-0.490	0.013	100	0.200	-0.578	-0.651	-0.483	0.021
33	0.300	-0.744	-0.817	-0.525	0.045	101	0.300	-0.316	-0.420	-0.244	0.023
34	0.400	-0.426	-0.739	-0.340	0.038	102	0.400	-0.233	-0.328	-0.180	0.017
35	0.500	-0.205	-0.284	-0.146	0.019	103	0.500	-0.124	-0.185	-0.070	0.014
36	0.600	-0.126	-0.177	-0.080	0.015	104	0.600	-0.203	-0.246	-0.167	0.012
37	0.700	-0.032	-0.075	0.011	0.012	105	0.700	-0.133	-0.172	-0.100	0.011
38	0.800	-0.092	-0.132	-0.053	0.010	106	0.800	-0.074	-0.108	-0.041	0.010
						107	0.900	0.016	-0.015	0.053	0.009
						108	0.950	0.148	0.118	0.172	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
600	0.81	139.5	2.05

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.112	1.099	1.130	0.005	69	0.000	1.109	1.094	1.124	0.005
2	0.010	0.215	0.177	0.255	0.010	70	0.010	0.076	0.036	0.108	0.010
3	0.020	-0.211	-0.239	-0.175	0.009	71	0.020	-0.115	-0.151	-0.083	0.009
4	0.030	-0.307	-0.333	-0.275	0.008	72	0.030	-0.227	-0.258	-0.198	0.009
5	0.040	-0.313	-0.333	-0.289	0.007	73	0.040	-0.269	-0.295	-0.246	0.007
6	0.050	-0.133	-0.155	-0.109	0.006	74	0.050	-0.343	-0.368	-0.321	0.006
7	0.075	-0.793	-0.808	-0.777	0.004	75	0.075	-0.972	-0.989	-0.957	0.004
8	0.100	-0.913	-0.933	-0.894	0.006	76	0.100	-0.918	-0.941	-0.892	0.006
9	0.150	-0.905	-0.930	-0.880	0.008	77	0.150	-0.699	-0.811	-0.627	0.026
10	0.200	-0.851	-0.877	-0.810	0.009	78	0.200	-0.708	-0.744	-0.622	0.012
11	0.250	-0.964	-0.994	-0.921	0.009	79	0.250	-0.524	-0.606	-0.418	0.024
12	0.300	-0.889	-0.913	-0.858	0.007	81	0.350	-0.324	-0.441	-0.234	0.028
13	0.350	-1.034	-1.068	-0.940	0.010	82	0.400	-0.259	-0.355	-0.192	0.020
14	0.400	-0.849	-1.044	-0.429	0.121	83	0.450	-0.316	-0.384	-0.259	0.016
15	0.450	-0.447	-0.792	-0.331	0.043	84	0.500	-0.178	-0.231	-0.129	0.014
16	0.500	-0.340	-0.460	-0.270	0.023	85	0.550	-0.129	-0.173	-0.083	0.013
62	0.550	-0.140	-0.226	-0.091	0.017	86	0.600	-0.201	-0.243	-0.162	0.012
18	0.600	-0.234	-0.290	-0.192	0.014	87	0.650	-0.048	-0.085	-0.014	0.011
63	0.650	-0.172	-0.211	-0.139	0.010	88	0.700	-0.155	-0.190	-0.124	0.011
20	0.700	0.001	-0.048	0.043	0.013	89	0.750	-0.004	-0.035	0.028	0.010
21	0.750	-0.076	-0.115	-0.035	0.012	90	0.800	-0.058	-0.090	-0.025	0.010
22	0.800	-0.038	-0.076	0.005	0.012	91	0.850	-0.035	-0.064	-0.005	0.009
66	0.850	0.148	0.115	0.179	0.010	92	0.900	0.113	0.085	0.144	0.009
25	0.950	0.274	0.241	0.303	0.009	93	0.950	0.214	0.187	0.244	0.009
26	1.000	0.263	0.240	0.290	0.007	94	1.000	0.039	0.017	0.061	0.007
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.597	0.564	0.635	0.010	95	0.010	0.551	0.514	0.587	0.010
28	0.020	0.326	0.290	0.367	0.010	96	0.020	0.136	0.099	0.173	0.010
						97	0.030	0.016	-0.023	0.055	0.011
30	0.050	0.117	0.090	0.150	0.009	98	0.050	-0.058	-0.089	-0.023	0.009
31	0.100	-0.234	-0.268	-0.193	0.011	99	0.100	-0.271	-0.309	-0.223	0.012
32	0.200	-0.460	-0.510	-0.381	0.019	100	0.200	-0.529	-0.599	-0.451	0.021
33	0.300	-0.600	-0.726	-0.478	0.049	101	0.300	-0.297	-0.376	-0.231	0.020
34	0.400	-0.424	-0.543	-0.340	0.027	102	0.400	-0.229	-0.288	-0.174	0.016
35	0.500	-0.203	-0.264	-0.150	0.017	103	0.500	-0.127	-0.177	-0.076	0.013
36	0.600	-0.126	-0.171	-0.080	0.014	104	0.600	-0.209	-0.253	-0.168	0.012
37	0.700	-0.035	-0.075	0.011	0.011	105	0.700	-0.142	-0.177	-0.102	0.011
38	0.800	-0.096	-0.134	-0.060	0.010	106	0.800	-0.085	-0.118	-0.054	0.010
						107	0.900	0.003	-0.028	0.036	0.009
						108	0.950	0.138	0.113	0.166	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
601	0.81	139.4	3.02

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.095	1.077	1.113	0.005
2	0.010	0.109	0.073	0.146	0.011
3	0.020	-0.311	-0.343	-0.276	0.010
4	0.030	-0.397	-0.428	-0.366	0.009
5	0.040	-0.384	-0.408	-0.361	0.007
6	0.050	-0.194	-0.214	-0.168	0.007
7	0.075	-0.822	-0.836	-0.806	0.005
8	0.100	-0.966	-0.987	-0.950	0.005
9	0.150	-0.997	-1.019	-0.975	0.007
10	0.200	-0.938	-0.960	-0.917	0.006
11	0.250	-1.062	-1.084	-1.036	0.008
12	0.300	-0.974	-1.000	-0.944	0.008
13	0.350	-1.096	-1.123	-1.017	0.008
14	0.400	-0.878	-1.105	-0.503	0.123
15	0.450	-0.503	-0.649	-0.396	0.034
16	0.500	-0.406	-0.478	-0.321	0.025
62	0.550	-0.196	-0.281	-0.122	0.024
18	0.600	-0.271	-0.353	-0.212	0.019
63	0.650	-0.192	-0.255	-0.156	0.013
20	0.700	-0.009	-0.063	0.028	0.013
21	0.750	-0.078	-0.117	-0.041	0.011
22	0.800	-0.036	-0.069	-0.002	0.010
66	0.850	0.149	0.115	0.177	0.009
25	0.950	0.269	0.241	0.299	0.009
26	1.000	0.251	0.228	0.277	0.007

Lower surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
27	0.010	0.680	0.646	0.711	0.009
28	0.020	0.415	0.376	0.455	0.010
30	0.050	0.186	0.152	0.223	0.010
31	0.100	-0.152	-0.189	-0.103	0.012
32	0.200	-0.376	-0.432	-0.291	0.020
33	0.300	-0.530	-0.633	-0.442	0.029
34	0.400	-0.408	-0.509	-0.335	0.022
35	0.500	-0.198	-0.264	-0.150	0.016
36	0.600	-0.127	-0.173	-0.078	0.013
37	0.700	-0.041	-0.086	0.006	0.011
38	0.800	-0.105	-0.141	-0.069	0.010

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.094	1.075	1.111	0.005
70	0.010	-0.014	-0.054	0.025	0.010
71	0.020	-0.206	-0.245	-0.168	0.009
72	0.030	-0.310	-0.348	-0.277	0.009
73	0.040	-0.337	-0.367	-0.311	0.008
74	0.050	-0.396	-0.422	-0.375	0.007
75	0.075	-0.998	-1.012	-0.984	0.004
76	0.100	-0.965	-0.984	-0.946	0.006
77	0.150	-0.860	-0.950	-0.765	0.030
78	0.200	-0.735	-0.796	-0.681	0.016
79	0.250	-0.590	-0.651	-0.477	0.022
81	0.350	-0.356	-0.489	-0.234	0.032
82	0.400	-0.279	-0.372	-0.188	0.023
83	0.450	-0.328	-0.396	-0.262	0.017
84	0.500	-0.187	-0.246	-0.135	0.015
85	0.550	-0.136	-0.191	-0.088	0.014
86	0.600	-0.208	-0.255	-0.165	0.012
87	0.650	-0.055	-0.098	-0.014	0.011
88	0.700	-0.161	-0.197	-0.122	0.011
89	0.750	-0.012	-0.048	0.025	0.010
90	0.800	-0.065	-0.097	-0.027	0.010
91	0.850	-0.045	-0.074	-0.011	0.009
92	0.900	0.098	0.068	0.129	0.009
93	0.950	0.198	0.171	0.229	0.008
94	1.000	0.038	0.017	0.058	0.007

Lower surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
95	0.010	0.626	0.587	0.657	0.010
96	0.020	0.214	0.175	0.249	0.010
97	0.030	0.102	0.065	0.138	0.010
98	0.050	0.005	-0.026	0.040	0.010
99	0.100	-0.214	-0.256	-0.167	0.012
100	0.200	-0.491	-0.551	-0.427	0.018
101	0.300	-0.284	-0.359	-0.229	0.019
102	0.400	-0.229	-0.289	-0.171	0.016
103	0.500	-0.132	-0.192	-0.080	0.013
104	0.600	-0.217	-0.261	-0.169	0.012
105	0.700	-0.152	-0.193	-0.110	0.011
106	0.800	-0.096	-0.129	-0.061	0.010
107	0.900	-0.008	-0.040	0.026	0.009
108	0.950	0.130	0.102	0.157	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
602	0.81	139.9	4.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.062	1.040	1.080	0.006
2	0.010	0.003	-0.040	0.039	0.011
3	0.020	-0.416	-0.458	-0.381	0.011
4	0.030	-0.495	-0.533	-0.461	0.010
5	0.040	-0.462	-0.494	-0.436	0.008
6	0.050	-0.263	-0.292	-0.236	0.008
7	0.075	-0.837	-0.851	-0.825	0.004
8	0.100	-1.003	-1.017	-0.986	0.004
9	0.150	-1.061	-1.080	-1.040	0.006
10	0.200	-0.995	-1.013	-0.972	0.006
11	0.250	-1.136	-1.156	-1.108	0.006
12	0.300	-1.059	-1.084	-0.960	0.008
13	0.350	-1.033	-1.182	-0.581	0.136
14	0.400	-0.585	-1.031	-0.466	0.066
15	0.450	-0.499	-0.605	-0.418	0.024
16	0.500	-0.443	-0.532	-0.348	0.024
62	0.550	-0.252	-0.347	-0.154	0.026
18	0.600	-0.334	-0.433	-0.241	0.026
63	0.650	-0.256	-0.335	-0.191	0.021
20	0.700	-0.073	-0.165	-0.001	0.024
21	0.750	-0.129	-0.219	-0.067	0.021
22	0.800	-0.080	-0.158	-0.024	0.019
66	0.850	0.106	0.030	0.160	0.017
25	0.950	0.224	0.153	0.269	0.017
26	1.000	0.203	0.139	0.244	0.015

Lower surface at ETA = 0.60

27	0.010	0.751	0.711	0.781	0.009
28	0.020	0.494	0.443	0.532	0.011
30	0.050	0.252	0.207	0.282	0.010
31	0.100	-0.077	-0.124	-0.039	0.011
32	0.200	-0.305	-0.369	-0.251	0.017
33	0.300	-0.480	-0.559	-0.412	0.021
34	0.400	-0.393	-0.476	-0.330	0.019
35	0.500	-0.199	-0.257	-0.151	0.016
36	0.600	-0.138	-0.184	-0.087	0.013
37	0.700	-0.060	-0.105	-0.012	0.013
38	0.800	-0.133	-0.173	-0.090	0.012

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.067	1.047	1.083	0.005
70	0.010	-0.106	-0.144	-0.069	0.011
71	0.020	-0.298	-0.334	-0.262	0.010
72	0.030	-0.397	-0.433	-0.362	0.010
73	0.040	-0.409	-0.442	-0.378	0.009
74	0.050	-0.455	-0.483	-0.428	0.008
75	0.075	-1.016	-1.029	-1.004	0.004
76	0.100	-0.996	-1.013	-0.981	0.005
77	0.150	-0.971	-1.028	-0.874	0.020
78	0.200	-0.795	-0.847	-0.725	0.017
79	0.250	-0.628	-0.698	-0.542	0.020
81	0.350	-0.365	-0.521	-0.253	0.041
82	0.400	-0.276	-0.380	-0.195	0.026
83	0.450	-0.326	-0.400	-0.264	0.019
84	0.500	-0.188	-0.251	-0.134	0.015
85	0.550	-0.140	-0.195	-0.088	0.014
86	0.600	-0.213	-0.260	-0.167	0.012
87	0.650	-0.062	-0.104	-0.019	0.011
88	0.700	-0.168	-0.209	-0.128	0.010
89	0.750	-0.020	-0.058	0.017	0.009
90	0.800	-0.076	-0.112	-0.038	0.010
91	0.850	-0.061	-0.092	-0.027	0.009
92	0.900	0.080	0.049	0.115	0.009
93	0.950	0.181	0.149	0.218	0.008
94	1.000	0.033	0.012	0.056	0.006

Lower surface at ETA = 0.95

95	0.010	0.691	0.662	0.722	0.009
96	0.020	0.283	0.250	0.317	0.010
97	0.030	0.180	0.149	0.214	0.010
98	0.050	0.066	0.034	0.102	0.011
99	0.100	-0.159	-0.199	-0.114	0.012
100	0.200	-0.454	-0.510	-0.397	0.016
101	0.300	-0.270	-0.335	-0.209	0.017
102	0.400	-0.227	-0.282	-0.173	0.015
103	0.500	-0.137	-0.186	-0.085	0.013
104	0.600	-0.225	-0.271	-0.179	0.012
105	0.700	-0.163	-0.205	-0.120	0.011
106	0.800	-0.109	-0.141	-0.071	0.010
107	0.900	-0.019	-0.050	0.014	0.009
108	0.950	0.119	0.092	0.151	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
603	0.81	140.1	4.99

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.026	1.003	1.045	0.006
2	0.010	-0.107	-0.149	-0.066	0.012
3	0.020	-0.531	-0.573	-0.490	0.011
4	0.030	-0.613	-0.660	-0.572	0.012
5	0.040	-0.562	-0.608	-0.530	0.011
6	0.050	-0.356	-0.399	-0.322	0.011
7	0.075	-0.841	-0.854	-0.828	0.004
8	0.100	-1.035	-1.050	-1.021	0.004
9	0.150	-1.123	-1.142	-1.107	0.006
10	0.200	-1.044	-1.060	-1.025	0.005
11	0.250	-1.196	-1.215	-0.917	0.009
12	0.300	-0.926	-1.127	-0.445	0.155
13	0.350	-0.615	-1.080	-0.517	0.058
14	0.400	-0.531	-0.627	-0.465	0.021
15	0.450	-0.509	-0.588	-0.435	0.020
16	0.500	-0.476	-0.568	-0.396	0.022
62	0.550	-0.307	-0.408	-0.207	0.026
18	0.600	-0.401	-0.511	-0.296	0.028
63	0.650	-0.334	-0.412	-0.247	0.023
20	0.700	-0.161	-0.267	-0.053	0.031
21	0.750	-0.218	-0.341	-0.103	0.032
22	0.800	-0.169	-0.273	-0.064	0.030
66	0.850	0.014	-0.095	0.111	0.029
25	0.950	0.128	0.045	0.216	0.026
26	1.000	0.115	0.036	0.190	0.023

Lower surface at ETA = 0.60

27	0.010	0.819	0.791	0.849	0.009
28	0.020	0.571	0.537	0.606	0.010
30	0.050	0.318	0.284	0.350	0.010
31	0.100	-0.006	-0.039	0.031	0.011
32	0.200	-0.241	-0.288	-0.195	0.015
33	0.300	-0.435	-0.494	-0.368	0.018
34	0.400	-0.375	-0.451	-0.309	0.018
35	0.500	-0.201	-0.254	-0.149	0.016
36	0.600	-0.150	-0.197	-0.103	0.014
37	0.700	-0.084	-0.128	-0.041	0.013
38	0.800	-0.164	-0.207	-0.120	0.012

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.038	1.018	1.059	0.006
70	0.010	-0.200	-0.239	-0.161	0.011
71	0.020	-0.396	-0.434	-0.360	0.011
72	0.030	-0.497	-0.539	-0.461	0.011
73	0.040	-0.500	-0.543	-0.466	0.012
74	0.050	-0.533	-0.574	-0.498	0.011
75	0.075	-1.026	-1.039	-1.016	0.003
76	0.100	-1.023	-1.038	-1.009	0.004
77	0.150	-1.039	-1.080	-0.976	0.013
78	0.200	-0.849	-0.899	-0.780	0.014
79	0.250	-0.681	-0.757	-0.549	0.022
81	0.350	-0.358	-0.560	-0.253	0.045
82	0.400	-0.267	-0.406	-0.193	0.025
83	0.450	-0.323	-0.398	-0.267	0.017
84	0.500	-0.192	-0.242	-0.144	0.014
85	0.550	-0.147	-0.198	-0.102	0.013
86	0.600	-0.222	-0.268	-0.181	0.011
87	0.650	-0.073	-0.119	-0.034	0.011
88	0.700	-0.180	-0.222	-0.145	0.010
89	0.750	-0.037	-0.076	0.000	0.010
90	0.800	-0.096	-0.136	-0.060	0.010
91	0.850	-0.082	-0.122	-0.050	0.009
92	0.900	0.056	0.021	0.087	0.009
93	0.950	0.158	0.124	0.188	0.009
94	1.000	0.025	-0.002	0.048	0.006

Lower surface at ETA = 0.95

95	0.010	0.753	0.721	0.785	0.009
96	0.020	0.351	0.315	0.385	0.010
97	0.030	0.261	0.225	0.294	0.010
98	0.050	0.127	0.095	0.162	0.009
99	0.100	-0.108	-0.147	-0.058	0.011
100	0.200	-0.420	-0.473	-0.362	0.015
101	0.300	-0.257	-0.316	-0.201	0.016
102	0.400	-0.226	-0.286	-0.173	0.015
103	0.500	-0.142	-0.191	-0.091	0.013
104	0.600	-0.236	-0.282	-0.191	0.012
105	0.700	-0.176	-0.216	-0.136	0.011
106	0.800	-0.123	-0.161	-0.089	0.010
107	0.900	-0.033	-0.068	-0.003	0.009
108	0.950	0.107	0.074	0.134	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
604	0.81	140.9	6.00

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.975	0.947	1.002	0.007
2	0.010	-0.222	-0.262	-0.177	0.011
3	0.020	-0.649	-0.688	-0.607	0.011
4	0.030	-0.750	-0.791	-0.704	0.012
5	0.040	-0.742	-0.799	-0.674	0.021
6	0.050	-0.525	-0.588	-0.455	0.020
7	0.075	-0.849	-0.869	-0.834	0.005
8	0.100	-1.046	-1.061	-1.034	0.004
9	0.150	-1.169	-1.186	-1.155	0.004
10	0.200	-1.089	-1.113	-0.942	0.006
11	0.250	-1.118	-1.247	-0.629	0.117
12	0.300	-0.548	-0.944	-0.431	0.062
13	0.350	-0.575	-0.666	-0.502	0.021
14	0.400	-0.533	-0.603	-0.468	0.018
15	0.450	-0.520	-0.598	-0.457	0.019
16	0.500	-0.495	-0.572	-0.426	0.021
62	0.550	-0.338	-0.420	-0.256	0.024
18	0.600	-0.439	-0.537	-0.354	0.026
63	0.650	-0.384	-0.469	-0.292	0.022
20	0.700	-0.225	-0.331	-0.112	0.030
21	0.750	-0.292	-0.409	-0.170	0.034
22	0.800	-0.249	-0.360	-0.139	0.032
66	0.850	-0.080	-0.201	0.029	0.033
25	0.950	0.027	-0.069	0.123	0.029
26	1.000	0.021	-0.069	0.099	0.024

Lower surface at ETA = 0.60

27	0.010	0.881	0.853	0.909	0.008
28	0.020	0.644	0.606	0.675	0.010
30	0.050	0.384	0.348	0.418	0.009
31	0.100	0.070	0.020	0.107	0.011
32	0.200	-0.179	-0.235	-0.133	0.014
33	0.300	-0.387	-0.463	-0.328	0.016
34	0.400	-0.350	-0.417	-0.291	0.016
35	0.500	-0.195	-0.257	-0.136	0.016
36	0.600	-0.158	-0.208	-0.104	0.014
37	0.700	-0.103	-0.150	-0.055	0.014
38	0.800	-0.192	-0.238	-0.151	0.014

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	0.998	0.974	1.020	0.006
70	0.010	-0.299	-0.339	-0.261	0.011
71	0.020	-0.496	-0.529	-0.462	0.010
72	0.030	-0.607	-0.641	-0.565	0.011
73	0.040	-0.642	-0.694	-0.585	0.017
74	0.050	-0.664	-0.727	-0.608	0.019
75	0.075	-1.020	-1.034	-1.007	0.004
76	0.100	-1.031	-1.042	-1.017	0.004
77	0.150	-1.080	-1.110	-1.021	0.010
78	0.200	-0.887	-0.950	-0.805	0.014
79	0.250	-0.720	-0.790	-0.587	0.023
81	0.350	-0.336	-0.535	-0.246	0.043
82	0.400	-0.259	-0.366	-0.192	0.022
83	0.450	-0.326	-0.413	-0.276	0.015
84	0.500	-0.202	-0.270	-0.160	0.013
85	0.550	-0.162	-0.218	-0.125	0.012
86	0.600	-0.238	-0.284	-0.205	0.011
87	0.650	-0.092	-0.130	-0.057	0.010
88	0.700	-0.201	-0.236	-0.165	0.011
89	0.750	-0.063	-0.096	-0.025	0.010
90	0.800	-0.124	-0.158	-0.086	0.010
91	0.850	-0.112	-0.145	-0.079	0.010
92	0.900	0.023	-0.009	0.054	0.009
93	0.950	0.126	0.093	0.158	0.009
94	1.000	0.014	-0.013	0.033	0.006

Lower surface at ETA = 0.95

95	0.010	0.812	0.781	0.841	0.009
96	0.020	0.417	0.386	0.451	0.010
97	0.030	0.283	0.250	0.320	0.009
98	0.050	0.188	0.154	0.220	0.009
99	0.100	-0.051	-0.094	-0.009	0.011
100	0.200	-0.383	-0.442	-0.323	0.013
101	0.300	-0.239	-0.290	-0.176	0.016
102	0.400	-0.222	-0.276	-0.170	0.015
103	0.500	-0.148	-0.202	-0.100	0.013
104	0.600	-0.245	-0.296	-0.209	0.012
105	0.700	-0.189	-0.233	-0.154	0.011
106	0.800	-0.138	-0.172	-0.107	0.010
107	0.900	-0.048	-0.079	-0.016	0.009
108	0.950	0.090	0.059	0.118	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
605	0.80	137.5	-0.94

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.121	1.103	1.139	0.005	69	0.000	1.123	1.103	1.140	0.005
2	0.010	0.517	0.485	0.552	0.010	70	0.010	0.345	0.306	0.382	0.010
3	0.020	0.075	0.041	0.113	0.010	71	0.020	0.149	0.110	0.185	0.010
4	0.030	-0.052	-0.085	-0.017	0.010	72	0.030	0.007	-0.031	0.046	0.010
5	0.040	-0.109	-0.136	-0.076	0.009	73	0.040	-0.076	-0.111	-0.043	0.009
6	0.050	0.033	0.007	0.061	0.008	74	0.050	-0.205	-0.239	-0.173	0.008
7	0.075	-0.433	-0.487	-0.372	0.016	75	0.075	-0.608	-0.743	-0.502	0.034
8	0.100	-0.469	-0.499	-0.426	0.010	76	0.100	-0.487	-0.524	-0.441	0.011
9	0.150	-0.599	-0.638	-0.535	0.013	77	0.150	-0.550	-0.607	-0.494	0.016
10	0.200	-0.572	-0.620	-0.476	0.017	78	0.200	-0.521	-0.595	-0.458	0.020
11	0.250	-0.698	-0.767	-0.563	0.038	79	0.250	-0.350	-0.434	-0.281	0.020
12	0.300	-0.512	-0.690	-0.369	0.067	81	0.350	-0.245	-0.314	-0.185	0.016
13	0.350	-0.504	-0.744	-0.396	0.038	82	0.400	-0.219	-0.279	-0.161	0.014
14	0.400	-0.423	-0.529	-0.329	0.024	83	0.450	-0.298	-0.356	-0.246	0.013
15	0.450	-0.381	-0.446	-0.305	0.018	84	0.500	-0.169	-0.224	-0.124	0.012
16	0.500	-0.340	-0.399	-0.274	0.015	85	0.550	-0.126	-0.182	-0.080	0.012
62	0.550	-0.159	-0.213	-0.104	0.015	86	0.600	-0.206	-0.255	-0.163	0.011
18	0.600	-0.263	-0.312	-0.214	0.013	87	0.650	-0.054	-0.100	-0.013	0.011
63	0.650	-0.203	-0.238	-0.167	0.010	88	0.700	-0.166	-0.206	-0.130	0.010
20	0.700	-0.030	-0.075	0.014	0.013	89	0.750	-0.015	-0.049	0.020	0.009
21	0.750	-0.103	-0.145	-0.057	0.010	90	0.800	-0.071	-0.104	-0.036	0.009
22	0.800	-0.066	-0.106	-0.032	0.010	91	0.850	-0.047	-0.076	-0.016	0.009
66	0.850	0.126	0.092	0.161	0.009	92	0.900	0.109	0.080	0.138	0.009
25	0.950	0.263	0.231	0.296	0.009	93	0.950	0.221	0.193	0.250	0.008
26	1.000	0.264	0.240	0.290	0.007	94	1.000	0.029	0.011	0.055	0.006
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.287	0.252	0.327	0.009	95	0.010	0.275	0.245	0.309	0.010
28	0.020	0.006	-0.026	0.044	0.009	96	0.020	-0.151	-0.180	-0.119	0.010
						97	0.030	-0.232	-0.260	-0.201	0.009
30	0.050	-0.104	-0.124	-0.081	0.007	98	0.050	-0.265	-0.291	-0.238	0.008
31	0.100	-0.742	-0.771	-0.711	0.008	99	0.100	-0.649	-0.715	-0.472	0.031
32	0.200	-0.693	-0.727	-0.616	0.015	100	0.200	-0.654	-0.714	-0.569	0.018
33	0.300	-0.915	-0.962	-0.747	0.015	101	0.300	-0.341	-0.437	-0.267	0.023
34	0.400	-0.455	-0.859	-0.356	0.051	102	0.400	-0.238	-0.298	-0.179	0.016
35	0.500	-0.199	-0.264	-0.131	0.018	103	0.500	-0.120	-0.171	-0.067	0.013
36	0.600	-0.123	-0.172	-0.071	0.014	104	0.600	-0.196	-0.240	-0.149	0.011
37	0.700	-0.028	-0.067	0.015	0.012	105	0.700	-0.122	-0.159	-0.083	0.010
38	0.800	-0.088	-0.122	-0.049	0.010	106	0.800	-0.061	-0.089	-0.023	0.009
						107	0.900	0.028	0.001	0.059	0.009
						108	0.950	0.155	0.130	0.181	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
606	0.80	138.2	0.03

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.120	1.100	1.136	0.006
2	0.010	0.409	0.372	0.442	0.010
3	0.020	-0.030	-0.064	0.004	0.009
4	0.030	-0.148	-0.180	-0.117	0.009
5	0.040	-0.191	-0.216	-0.162	0.008
6	0.050	-0.034	-0.059	-0.009	0.007
7	0.075	-0.683	-0.745	-0.590	0.021
8	0.100	-0.528	-0.549	-0.509	0.006
9	0.150	-0.682	-0.709	-0.645	0.008
10	0.200	-0.667	-0.701	-0.619	0.010
11	0.250	-0.811	-0.853	-0.679	0.014
12	0.300	-0.708	-0.781	-0.419	0.054
13	0.350	-0.569	-0.882	-0.413	0.094
14	0.400	-0.413	-0.613	-0.338	0.028
15	0.450	-0.375	-0.450	-0.302	0.021
16	0.500	-0.336	-0.400	-0.275	0.017
62	0.550	-0.157	-0.220	-0.103	0.016
18	0.600	-0.261	-0.315	-0.210	0.013
63	0.650	-0.201	-0.240	-0.170	0.010
20	0.700	-0.027	-0.078	0.024	0.013
21	0.750	-0.102	-0.145	-0.054	0.011
22	0.800	-0.061	-0.104	-0.014	0.010
66	0.850	0.130	0.097	0.170	0.009
25	0.950	0.267	0.239	0.303	0.009
26	1.000	0.263	0.239	0.290	0.007

Lower surface at ETA = 0.60

27	0.010	0.394	0.358	0.431	0.010
28	0.020	0.114	0.077	0.151	0.010
30	0.050	-0.041	-0.065	-0.009	0.008
31	0.100	-0.393	-0.472	-0.370	0.008
32	0.200	-0.639	-0.671	-0.597	0.011
33	0.300	-0.823	-0.905	-0.556	0.053
34	0.400	-0.426	-0.618	-0.346	0.028
35	0.500	-0.207	-0.262	-0.143	0.017
36	0.600	-0.127	-0.169	-0.077	0.013
37	0.700	-0.032	-0.072	0.015	0.011
38	0.800	-0.092	-0.128	-0.047	0.010

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.120	1.101	1.137	0.005
70	0.010	0.252	0.214	0.290	0.010
71	0.020	0.057	0.021	0.089	0.010
72	0.030	-0.077	-0.109	-0.047	0.010
73	0.040	-0.148	-0.178	-0.118	0.008
74	0.050	-0.259	-0.282	-0.233	0.007
75	0.075	-0.864	-0.928	-0.755	0.025
76	0.100	-0.511	-0.549	-0.483	0.006
77	0.150	-0.606	-0.650	-0.543	0.014
78	0.200	-0.573	-0.646	-0.489	0.022
79	0.250	-0.386	-0.485	-0.314	0.023
81	0.350	-0.256	-0.331	-0.200	0.017
82	0.400	-0.224	-0.281	-0.175	0.015
83	0.450	-0.299	-0.346	-0.254	0.013
84	0.500	-0.168	-0.216	-0.129	0.012
85	0.550	-0.123	-0.169	-0.083	0.012
86	0.600	-0.201	-0.244	-0.165	0.011
87	0.650	-0.048	-0.092	-0.013	0.010
88	0.700	-0.158	-0.200	-0.121	0.010
89	0.750	-0.007	-0.044	0.032	0.009
90	0.800	-0.061	-0.098	-0.022	0.009
91	0.850	-0.036	-0.070	0.001	0.009
92	0.900	0.119	0.087	0.155	0.009
93	0.950	0.229	0.194	0.264	0.008
94	1.000	0.027	0.004	0.050	0.006

Lower surface at ETA = 0.95

95	0.010	0.370	0.337	0.404	0.010
96	0.020	-0.054	-0.088	-0.016	0.010
97	0.030	-0.129	-0.164	-0.089	0.010
98	0.050	-0.198	-0.226	-0.165	0.008
99	0.100	-0.377	-0.433	-0.335	0.011
100	0.200	-0.603	-0.674	-0.528	0.022
101	0.300	-0.316	-0.393	-0.252	0.020
102	0.400	-0.230	-0.281	-0.180	0.015
103	0.500	-0.119	-0.163	-0.076	0.012
104	0.600	-0.197	-0.237	-0.158	0.011
105	0.700	-0.126	-0.164	-0.085	0.010
106	0.800	-0.066	-0.105	-0.027	0.009
107	0.900	0.024	-0.010	0.061	0.009
108	0.950	0.153	0.123	0.183	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
607	0.80	138.0	1.06

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.120	1.106	1.136	0.005
2	0.010	0.300	0.266	0.334	0.009
3	0.020	-0.136	-0.169	-0.105	0.009
4	0.030	-0.244	-0.273	-0.215	0.008
5	0.040	-0.268	-0.294	-0.245	0.007
6	0.050	-0.099	-0.122	-0.075	0.009
7	0.075	-0.793	-0.812	-0.775	0.005
8	0.100	-0.867	-0.895	-0.834	0.009
9	0.150	-0.735	-0.816	-0.669	0.021
10	0.200	-0.718	-0.749	-0.671	0.014
11	0.250	-0.875	-0.913	-0.838	0.010
12	0.300	-0.808	-0.857	-0.681	0.014
13	0.350	-0.825	-0.977	-0.473	0.109
14	0.400	-0.439	-0.850	-0.344	0.048
15	0.450	-0.365	-0.447	-0.291	0.021
16	0.500	-0.326	-0.392	-0.247	0.018
62	0.550	-0.150	-0.207	-0.077	0.017
18	0.600	-0.255	-0.307	-0.190	0.014
63	0.650	-0.196	-0.230	-0.148	0.010
20	0.700	-0.022	-0.072	0.035	0.014
21	0.750	-0.097	-0.141	-0.047	0.011
22	0.800	-0.057	-0.101	-0.011	0.011
66	0.850	0.135	0.097	0.170	0.010
25	0.950	0.270	0.237	0.299	0.009
26	1.000	0.264	0.234	0.288	0.007

Lower surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
27	0.010	0.499	0.468	0.532	0.010
28	0.020	0.221	0.185	0.256	0.010
30	0.050	0.034	0.009	0.061	0.009
31	0.100	-0.330	-0.359	-0.288	0.010
32	0.200	-0.547	-0.592	-0.453	0.018
33	0.300	-0.638	-0.807	-0.504	0.061
34	0.400	-0.433	-0.541	-0.350	0.024
35	0.500	-0.208	-0.281	-0.147	0.016
36	0.600	-0.128	-0.188	-0.075	0.013
37	0.700	-0.034	-0.085	0.015	0.011
38	0.800	-0.096	-0.136	-0.059	0.010

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.118	1.103	1.140	0.005
70	0.010	0.154	0.114	0.190	0.010
71	0.020	-0.039	-0.074	-0.004	0.009
72	0.030	-0.163	-0.197	-0.130	0.009
73	0.040	-0.221	-0.250	-0.193	0.008
74	0.050	-0.313	-0.337	-0.286	0.007
75	0.075	-0.975	-0.992	-0.950	0.006
76	0.100	-0.820	-0.895	-0.603	0.042
77	0.150	-0.637	-0.668	-0.590	0.014
78	0.200	-0.612	-0.674	-0.538	0.021
79	0.250	-0.435	-0.519	-0.346	0.024
81	0.350	-0.274	-0.339	-0.208	0.019
82	0.400	-0.233	-0.287	-0.172	0.016
83	0.450	-0.303	-0.348	-0.247	0.014
84	0.500	-0.170	-0.210	-0.115	0.012
85	0.550	-0.124	-0.164	-0.072	0.012
86	0.600	-0.199	-0.239	-0.152	0.011
87	0.650	-0.045	-0.084	-0.001	0.010
88	0.700	-0.155	-0.194	-0.115	0.010
89	0.750	-0.003	-0.043	0.035	0.010
90	0.800	-0.057	-0.097	-0.021	0.009
91	0.850	-0.033	-0.070	-0.002	0.009
92	0.900	0.121	0.084	0.151	0.008
93	0.950	0.228	0.196	0.257	0.008
94	1.000	0.032	0.008	0.055	0.007

Lower surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
95	0.010	0.464	0.423	0.503	0.010
96	0.020	0.043	0.000	0.084	0.011
97	0.030	-0.032	-0.074	0.005	0.010
98	0.050	-0.130	-0.163	-0.095	0.009
99	0.100	-0.325	-0.365	-0.275	0.012
100	0.200	-0.551	-0.628	-0.480	0.020
101	0.300	-0.296	-0.363	-0.235	0.018
102	0.400	-0.224	-0.283	-0.160	0.015
103	0.500	-0.120	-0.175	-0.063	0.013
104	0.600	-0.202	-0.244	-0.153	0.011
105	0.700	-0.134	-0.173	-0.089	0.010
106	0.800	-0.076	-0.112	-0.040	0.009
107	0.900	0.013	-0.021	0.047	0.009
108	0.950	0.146	0.113	0.176	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
608	0.80	138.4	1.99

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.106	1.091	1.127	0.004
2	0.010	0.192	0.153	0.233	0.012
3	0.020	-0.234	-0.268	-0.197	0.009
4	0.030	-0.331	-0.364	-0.301	0.009
5	0.040	-0.338	-0.362	-0.317	0.006
6	0.050	-0.157	-0.179	-0.136	0.007
7	0.075	-0.828	-0.847	-0.811	0.005
8	0.100	-0.947	-0.965	-0.923	0.006
9	0.150	-0.928	-0.956	-0.895	0.009
10	0.200	-0.861	-0.897	-0.805	0.012
11	0.250	-0.975	-1.005	-0.930	0.011
12	0.300	-0.904	-0.929	-0.872	0.007
13	0.350	-1.008	-1.072	-0.595	0.049
14	0.400	-0.537	-0.961	-0.374	0.083
15	0.450	-0.379	-0.498	-0.306	0.024
16	0.500	-0.318	-0.379	-0.264	0.016
62	0.550	-0.136	-0.193	-0.080	0.015
18	0.600	-0.241	-0.295	-0.186	0.014
63	0.650	-0.183	-0.224	-0.142	0.010
20	0.700	-0.010	-0.060	0.035	0.013
21	0.750	-0.087	-0.133	-0.047	0.012
22	0.800	-0.048	-0.085	-0.004	0.011
66	0.850	0.141	0.104	0.173	0.010
25	0.950	0.272	0.241	0.301	0.009
26	1.000	0.263	0.235	0.286	0.007

Lower surface at ETA = 0.60

27	0.010	0.590	0.557	0.623	0.010
28	0.020	0.317	0.282	0.359	0.011
30	0.050	0.105	0.076	0.142	0.010
31	0.100	-0.241	-0.280	-0.190	0.012
32	0.200	-0.447	-0.510	-0.373	0.022
33	0.300	-0.559	-0.677	-0.474	0.031
34	0.400	-0.415	-0.514	-0.349	0.020
35	0.500	-0.198	-0.256	-0.147	0.015
36	0.600	-0.123	-0.180	-0.083	0.013
37	0.700	-0.034	-0.081	0.002	0.011
38	0.800	-0.098	-0.138	-0.061	0.010

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.104	1.083	1.122	0.005
70	0.010	0.060	0.020	0.096	0.010
71	0.020	-0.132	-0.167	-0.099	0.009
72	0.030	-0.244	-0.276	-0.215	0.008
73	0.040	-0.287	-0.313	-0.260	0.008
74	0.050	-0.363	-0.390	-0.336	0.007
75	0.075	-1.006	-1.023	-0.989	0.004
76	0.100	-0.941	-0.964	-0.912	0.007
77	0.150	-0.661	-0.737	-0.622	0.013
78	0.200	-0.678	-0.749	-0.593	0.027
79	0.250	-0.478	-0.565	-0.389	0.028
81	0.350	-0.292	-0.374	-0.226	0.020
82	0.400	-0.243	-0.305	-0.188	0.016
83	0.450	-0.309	-0.358	-0.259	0.014
84	0.500	-0.173	-0.218	-0.130	0.013
85	0.550	-0.126	-0.171	-0.081	0.012
86	0.600	-0.200	-0.242	-0.160	0.011
87	0.650	-0.047	-0.086	-0.006	0.011
88	0.700	-0.155	-0.195	-0.118	0.010
89	0.750	-0.004	-0.041	0.028	0.010
90	0.800	-0.059	-0.096	-0.024	0.009
91	0.850	-0.037	-0.068	-0.005	0.009
92	0.900	0.113	0.082	0.141	0.009
93	0.950	0.217	0.188	0.244	0.008
94	1.000	0.037	0.014	0.058	0.006

Lower surface at ETA = 0.95

95	0.010	0.545	0.513	0.581	0.010
96	0.020	0.128	0.093	0.163	0.011
97	0.030	-0.005	-0.038	0.035	0.011
98	0.050	-0.064	-0.097	-0.032	0.010
99	0.100	-0.269	-0.307	-0.225	0.013
100	0.200	-0.509	-0.572	-0.448	0.018
101	0.300	-0.280	-0.349	-0.223	0.017
102	0.400	-0.219	-0.273	-0.172	0.014
103	0.500	-0.120	-0.172	-0.080	0.012
104	0.600	-0.206	-0.251	-0.169	0.011
105	0.700	-0.141	-0.180	-0.104	0.010
106	0.800	-0.086	-0.121	-0.050	0.009
107	0.900	0.002	-0.030	0.037	0.009
108	0.950	0.137	0.106	0.166	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
609	0.80	138.3	3.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.087	1.069	1.101	0.005
2	0.010	0.078	0.043	0.117	0.011
3	0.020	-0.344	-0.379	-0.307	0.010
4	0.030	-0.430	-0.462	-0.396	0.010
5	0.040	-0.416	-0.446	-0.392	0.007
6	0.050	-0.223	-0.249	-0.200	0.007
7	0.075	-0.861	-0.879	-0.846	0.004
8	0.100	-1.005	-1.021	-0.985	0.005
9	0.150	-1.032	-1.061	-1.008	0.006
10	0.200	-0.971	-0.993	-0.947	0.006
11	0.250	-1.091	-1.120	-1.061	0.007
12	0.300	-0.993	-1.028	-0.944	0.010
13	0.350	-1.114	-1.140	-0.873	0.015
14	0.400	-0.670	-1.052	-0.454	0.091
15	0.450	-0.456	-0.570	-0.360	0.028
16	0.500	-0.365	-0.452	-0.302	0.022
62	0.550	-0.159	-0.231	-0.110	0.017
18	0.600	-0.245	-0.297	-0.206	0.013
63	0.650	-0.177	-0.211	-0.149	0.009
20	0.700	-0.002	-0.045	0.037	0.011
21	0.750	-0.077	-0.118	-0.035	0.011
22	0.800	-0.039	-0.079	0.002	0.011
66	0.850	0.147	0.114	0.179	0.009
25	0.950	0.271	0.243	0.303	0.009
26	1.000	0.259	0.237	0.282	0.007

Lower surface at ETA = 0.60

27	0.010	0.680	0.647	0.714	0.010
28	0.020	0.414	0.376	0.453	0.011
30	0.050	0.181	0.143	0.212	0.010
31	0.100	-0.151	-0.197	-0.107	0.012
32	0.200	-0.358	-0.428	-0.296	0.018
33	0.300	-0.500	-0.581	-0.433	0.021
34	0.400	-0.390	-0.452	-0.329	0.017
35	0.500	-0.187	-0.241	-0.139	0.014
36	0.600	-0.119	-0.161	-0.073	0.012
37	0.700	-0.035	-0.070	0.013	0.010
38	0.800	-0.102	-0.135	-0.063	0.009

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.087	1.072	1.105	0.005
70	0.010	-0.038	-0.076	-0.002	0.010
71	0.020	-0.231	-0.265	-0.198	0.010
72	0.030	-0.335	-0.362	-0.305	0.009
73	0.040	-0.361	-0.387	-0.337	0.008
74	0.050	-0.420	-0.443	-0.397	0.007
75	0.075	-1.036	-1.051	-1.023	0.004
76	0.100	-0.996	-1.014	-0.977	0.005
77	0.150	-0.808	-0.894	-0.725	0.022
78	0.200	-0.733	-0.775	-0.682	0.009
79	0.250	-0.547	-0.628	-0.437	0.026
81	0.350	-0.318	-0.409	-0.250	0.023
82	0.400	-0.260	-0.330	-0.200	0.018
83	0.450	-0.320	-0.375	-0.269	0.015
84	0.500	-0.182	-0.227	-0.136	0.013
85	0.550	-0.133	-0.176	-0.089	0.012
86	0.600	-0.207	-0.244	-0.164	0.011
87	0.650	-0.054	-0.087	-0.013	0.011
88	0.700	-0.162	-0.199	-0.120	0.010
89	0.750	-0.012	-0.047	0.025	0.009
90	0.800	-0.066	-0.106	-0.029	0.009
91	0.850	-0.046	-0.083	-0.012	0.009
92	0.900	0.098	0.065	0.130	0.008
93	0.950	0.201	0.171	0.233	0.008
94	1.000	0.036	0.011	0.057	0.006

Lower surface at ETA = 0.95

95	0.010	0.625	0.587	0.661	0.010
96	0.020	0.211	0.173	0.251	0.011
97	0.030	0.089	0.050	0.134	0.011
98	0.050	0.003	-0.032	0.043	0.010
99	0.100	-0.209	-0.260	-0.159	0.013
100	0.200	-0.472	-0.533	-0.408	0.017
101	0.300	-0.266	-0.322	-0.206	0.016
102	0.400	-0.216	-0.262	-0.161	0.014
103	0.500	-0.124	-0.165	-0.076	0.012
104	0.600	-0.213	-0.248	-0.167	0.011
105	0.700	-0.149	-0.180	-0.104	0.010
106	0.800	-0.097	-0.132	-0.060	0.009
107	0.900	-0.009	-0.043	0.025	0.008
108	0.950	0.128	0.097	0.160	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
610	0.80	139.0	4.04

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.049	1.032	1.068	0.005
2	0.010	-0.038	-0.074	0.003	0.011
3	0.020	-0.458	-0.499	-0.420	0.011
4	0.030	-0.536	-0.572	-0.499	0.011
5	0.040	-0.500	-0.529	-0.470	0.009
6	0.050	-0.299	-0.329	-0.268	0.009
7	0.075	-0.874	-0.889	-0.860	0.005
8	0.100	-1.041	-1.055	-1.026	0.004
9	0.150	-1.100	-1.121	-1.077	0.006
10	0.200	-1.031	-1.049	-1.010	0.005
11	0.250	-1.172	-1.195	-1.146	0.006
12	0.300	-1.090	-1.115	-1.049	0.008
13	0.350	-1.076	-1.206	-0.624	0.117
14	0.400	-0.594	-0.968	-0.472	0.049
15	0.450	-0.498	-0.592	-0.404	0.026
16	0.500	-0.425	-0.506	-0.347	0.025
62	0.550	-0.222	-0.308	-0.148	0.025
18	0.600	-0.298	-0.384	-0.236	0.021
63	0.650	-0.219	-0.290	-0.179	0.014
20	0.700	-0.038	-0.106	0.015	0.016
21	0.750	-0.099	-0.159	-0.056	0.013
22	0.800	-0.055	-0.101	-0.013	0.012
66	0.850	0.130	0.087	0.163	0.011
25	0.950	0.248	0.193	0.286	0.010
26	1.000	0.231	0.183	0.259	0.010

Lower surface at ETA = 0.60

27	0.010	0.756	0.725	0.789	0.009
28	0.020	0.499	0.464	0.537	0.010
30	0.050	0.253	0.219	0.290	0.010
31	0.100	-0.070	-0.106	-0.034	0.011
32	0.200	-0.285	-0.342	-0.236	0.015
33	0.300	-0.450	-0.516	-0.395	0.017
34	0.400	-0.368	-0.420	-0.306	0.015
35	0.500	-0.181	-0.230	-0.136	0.014
36	0.600	-0.123	-0.162	-0.076	0.012
37	0.700	-0.046	-0.082	-0.012	0.011
38	0.800	-0.118	-0.156	-0.081	0.010

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.058	1.038	1.077	0.005
70	0.010	-0.137	-0.183	-0.095	0.011
71	0.020	-0.330	-0.378	-0.290	0.010
72	0.030	-0.427	-0.475	-0.391	0.010
73	0.040	-0.437	-0.480	-0.404	0.009
74	0.050	-0.482	-0.517	-0.450	0.008
75	0.075	-1.053	-1.066	-1.038	0.004
76	0.100	-1.029	-1.048	-1.003	0.004
77	0.150	-0.939	-1.018	-0.846	0.027
78	0.200	-0.781	-0.846	-0.712	0.018
79	0.250	-0.612	-0.681	-0.482	0.024
81	0.350	-0.334	-0.451	-0.257	0.028
82	0.400	-0.267	-0.355	-0.202	0.020
83	0.450	-0.325	-0.393	-0.268	0.016
84	0.500	-0.188	-0.247	-0.135	0.014
85	0.550	-0.140	-0.193	-0.090	0.013
86	0.600	-0.214	-0.263	-0.167	0.011
87	0.650	-0.061	-0.108	-0.019	0.011
88	0.700	-0.169	-0.213	-0.127	0.010
89	0.750	-0.020	-0.058	0.020	0.009
90	0.800	-0.078	-0.114	-0.042	0.009
91	0.850	-0.063	-0.095	-0.026	0.009
92	0.900	0.079	0.045	0.113	0.008
93	0.950	0.183	0.154	0.220	0.008
94	1.000	0.031	0.011	0.053	0.006

Lower surface at ETA = 0.95

95	0.010	0.693	0.651	0.723	0.009
96	0.020	0.285	0.244	0.320	0.010
97	0.030	0.172	0.136	0.205	0.010
98	0.050	0.069	0.031	0.101	0.011
99	0.100	-0.151	-0.201	-0.115	0.012
100	0.200	-0.436	-0.494	-0.384	0.015
101	0.300	-0.251	-0.298	-0.199	0.015
102	0.400	-0.213	-0.262	-0.160	0.013
103	0.500	-0.127	-0.173	-0.080	0.012
104	0.600	-0.219	-0.259	-0.183	0.011
105	0.700	-0.159	-0.197	-0.124	0.010
106	0.800	-0.108	-0.142	-0.074	0.009
107	0.900	-0.019	-0.050	0.013	0.008
108	0.950	0.118	0.087	0.148	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
611	0.80	138.6	4.95

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.015	0.992	1.037	0.007	69	0.000	1.031	1.011	1.056	0.006
2	0.010	-0.147	-0.191	-0.107	0.012	70	0.010	-0.231	-0.270	-0.191	0.012
3	0.020	-0.572	-0.616	-0.534	0.012	71	0.020	-0.429	-0.470	-0.390	0.011
4	0.030	-0.655	-0.704	-0.615	0.012	72	0.030	-0.528	-0.567	-0.490	0.011
5	0.040	-0.601	-0.649	-0.565	0.012	73	0.040	-0.526	-0.570	-0.489	0.012
6	0.050	-0.395	-0.440	-0.359	0.011	74	0.050	-0.559	-0.598	-0.525	0.011
7	0.075	-0.882	-0.895	-0.864	0.005	75	0.075	-1.066	-1.078	-1.044	0.004
8	0.100	-1.077	-1.091	-1.062	0.005	76	0.100	-1.059	-1.072	-1.043	0.004
9	0.150	-1.165	-1.186	-1.147	0.006	77	0.150	-1.034	-1.087	-0.943	0.019
10	0.200	-1.084	-1.103	-1.064	0.006	78	0.200	-0.842	-0.893	-0.767	0.018
11	0.250	-1.235	-1.257	-1.064	0.007	79	0.250	-0.657	-0.729	-0.509	0.027
12	0.300	-0.999	-1.165	-0.504	0.151	81	0.350	-0.333	-0.460	-0.238	0.031
13	0.350	-0.657	-1.171	-0.538	0.074	82	0.400	-0.264	-0.339	-0.192	0.021
14	0.400	-0.555	-0.660	-0.486	0.024	83	0.450	-0.325	-0.378	-0.264	0.016
15	0.450	-0.521	-0.588	-0.444	0.023	84	0.500	-0.193	-0.238	-0.136	0.013
16	0.500	-0.475	-0.543	-0.384	0.025	85	0.550	-0.147	-0.189	-0.094	0.012
62	0.550	-0.292	-0.385	-0.172	0.028	86	0.600	-0.221	-0.259	-0.174	0.011
18	0.600	-0.376	-0.478	-0.249	0.029	87	0.650	-0.071	-0.105	-0.028	0.010
63	0.650	-0.301	-0.393	-0.217	0.024	88	0.700	-0.179	-0.216	-0.136	0.010
20	0.700	-0.121	-0.240	-0.008	0.029	89	0.750	-0.035	-0.067	0.003	0.009
21	0.750	-0.173	-0.282	-0.075	0.029	90	0.800	-0.095	-0.129	-0.059	0.010
22	0.800	-0.125	-0.222	-0.036	0.027	91	0.850	-0.081	-0.113	-0.045	0.009
66	0.850	0.061	-0.035	0.139	0.025	92	0.900	0.057	0.027	0.091	0.009
25	0.950	0.173	0.085	0.243	0.023	93	0.950	0.163	0.135	0.194	0.009
26	1.000	0.158	0.070	0.219	0.021	94	1.000	0.025	0.004	0.048	0.006
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.823	0.790	0.852	0.008	95	0.010	0.756	0.722	0.787	0.009
28	0.020	0.574	0.535	0.608	0.010	96	0.020	0.353	0.317	0.388	0.010
						97	0.030	0.247	0.211	0.283	0.010
30	0.050	0.318	0.283	0.352	0.010	98	0.050	0.128	0.096	0.160	0.009
31	0.100	-0.003	-0.037	0.036	0.011	99	0.100	-0.103	-0.137	-0.059	0.011
32	0.200	-0.228	-0.273	-0.179	0.014	100	0.200	-0.406	-0.451	-0.357	0.014
33	0.300	-0.414	-0.463	-0.362	0.016	101	0.300	-0.241	-0.295	-0.192	0.014
34	0.400	-0.354	-0.410	-0.304	0.015	102	0.400	-0.213	-0.260	-0.162	0.013
35	0.500	-0.182	-0.241	-0.134	0.014	103	0.500	-0.133	-0.178	-0.082	0.012
36	0.600	-0.135	-0.188	-0.088	0.013	104	0.600	-0.229	-0.267	-0.181	0.011
37	0.700	-0.068	-0.106	-0.020	0.012	105	0.700	-0.171	-0.206	-0.127	0.010
38	0.800	-0.148	-0.189	-0.102	0.012	106	0.800	-0.121	-0.152	-0.085	0.009
						107	0.900	-0.031	-0.060	0.003	0.008
						108	0.950	0.107	0.082	0.139	0.008

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
612	0.80	139.2	5.97

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.963	0.941	0.984	0.007
2	0.010	-0.264	-0.303	-0.224	0.011
3	0.020	-0.691	-0.730	-0.654	0.011
4	0.030	-0.794	-0.832	-0.752	0.012
5	0.040	-0.789	-0.842	-0.719	0.020
6	0.050	-0.572	-0.631	-0.501	0.020
7	0.075	-0.888	-0.909	-0.872	0.006
8	0.100	-1.085	-1.095	-1.072	0.003
9	0.150	-1.211	-1.223	-1.196	0.004
10	0.200	-1.129	-1.148	-1.090	0.005
11	0.250	-1.151	-1.287	-0.674	0.125
12	0.300	-0.577	-1.115	-0.447	0.069
13	0.350	-0.598	-0.700	-0.517	0.022
14	0.400	-0.550	-0.633	-0.483	0.021
15	0.450	-0.531	-0.621	-0.458	0.022
16	0.500	-0.499	-0.580	-0.417	0.024
62	0.550	-0.332	-0.427	-0.243	0.026
18	0.600	-0.428	-0.529	-0.332	0.028
63	0.650	-0.366	-0.445	-0.279	0.023
20	0.700	-0.200	-0.312	-0.094	0.031
21	0.750	-0.261	-0.386	-0.157	0.034
22	0.800	-0.217	-0.331	-0.105	0.032
66	0.850	-0.040	-0.152	0.068	0.032
25	0.950	0.068	-0.032	0.171	0.028
26	1.000	0.058	-0.021	0.160	0.024

Lower surface at ETA = 0.60

27	0.010	0.886	0.859	0.912	0.008
28	0.020	0.648	0.615	0.681	0.010
30	0.050	0.385	0.348	0.417	0.010
31	0.100	0.073	0.028	0.108	0.011
32	0.200	-0.170	-0.220	-0.124	0.013
33	0.300	-0.370	-0.423	-0.319	0.015
34	0.400	-0.332	-0.381	-0.281	0.015
35	0.500	-0.178	-0.228	-0.136	0.014
36	0.600	-0.143	-0.191	-0.100	0.013
37	0.700	-0.088	-0.134	-0.041	0.012
38	0.800	-0.177	-0.225	-0.132	0.012

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	0.990	0.967	1.013	0.006
70	0.010	-0.332	-0.374	-0.291	0.011
71	0.020	-0.532	-0.573	-0.492	0.010
72	0.030	-0.642	-0.687	-0.595	0.011
73	0.040	-0.668	-0.732	-0.603	0.017
74	0.050	-0.688	-0.766	-0.622	0.018
75	0.075	-1.057	-1.072	-1.040	0.004
76	0.100	-1.066	-1.077	-1.053	0.003
77	0.150	-1.091	-1.128	-1.029	0.013
78	0.200	-0.887	-0.937	-0.817	0.017
79	0.250	-0.695	-0.771	-0.512	0.030
81	0.350	-0.321	-0.468	-0.233	0.032
82	0.400	-0.260	-0.339	-0.196	0.020
83	0.450	-0.328	-0.382	-0.273	0.015
84	0.500	-0.202	-0.247	-0.155	0.013
85	0.550	-0.160	-0.201	-0.118	0.012
86	0.600	-0.235	-0.269	-0.196	0.011
87	0.650	-0.088	-0.123	-0.052	0.010
88	0.700	-0.198	-0.234	-0.164	0.010
89	0.750	-0.060	-0.093	-0.027	0.009
90	0.800	-0.121	-0.160	-0.089	0.010
91	0.850	-0.110	-0.146	-0.076	0.009
92	0.900	0.025	-0.012	0.056	0.009
93	0.950	0.135	0.104	0.168	0.009
94	1.000	0.015	-0.010	0.048	0.006

Lower surface at ETA = 0.95

95	0.010	0.814	0.781	0.846	0.009
96	0.020	0.419	0.383	0.458	0.009
97	0.030	0.321	0.286	0.358	0.009
98	0.050	0.188	0.153	0.224	0.009
99	0.100	-0.048	-0.086	-0.007	0.011
100	0.200	-0.372	-0.416	-0.323	0.013
101	0.300	-0.225	-0.273	-0.174	0.014
102	0.400	-0.210	-0.257	-0.160	0.013
103	0.500	-0.139	-0.179	-0.089	0.012
104	0.600	-0.237	-0.275	-0.191	0.011
105	0.700	-0.183	-0.220	-0.141	0.010
106	0.800	-0.135	-0.169	-0.101	0.009
107	0.900	-0.046	-0.077	-0.016	0.008
108	0.950	0.091	0.065	0.120	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
613	0.79	136.4	-0.95

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.115	1.097	1.129	0.005
2	0.010	0.507	0.471	0.538	0.010
3	0.020	0.066	0.032	0.101	0.010
4	0.030	-0.062	-0.097	-0.027	0.010
5	0.040	-0.120	-0.151	-0.088	0.009
6	0.050	0.018	-0.012	0.047	0.008
7	0.075	-0.433	-0.483	-0.371	0.017
8	0.100	-0.476	-0.510	-0.438	0.011
9	0.150	-0.597	-0.638	-0.539	0.016
10	0.200	-0.558	-0.614	-0.472	0.024
11	0.250	-0.641	-0.754	-0.540	0.041
12	0.300	-0.466	-0.630	-0.376	0.034
13	0.350	-0.495	-0.625	-0.424	0.023
14	0.400	-0.419	-0.489	-0.352	0.018
15	0.450	-0.378	-0.432	-0.325	0.015
16	0.500	-0.337	-0.383	-0.286	0.013
62	0.550	-0.158	-0.204	-0.116	0.013
18	0.600	-0.261	-0.304	-0.222	0.011
63	0.650	-0.202	-0.233	-0.175	0.009
20	0.700	-0.032	-0.073	0.004	0.012
21	0.750	-0.106	-0.150	-0.073	0.010
22	0.800	-0.066	-0.105	-0.030	0.010
66	0.850	0.123	0.092	0.154	0.009
25	0.950	0.260	0.229	0.287	0.008
26	1.000	0.261	0.235	0.284	0.007

Lower surface at ETA = 0.60

27	0.010	0.271	0.242	0.301	0.009
28	0.020	-0.012	-0.050	0.019	0.009
30	0.050	-0.125	-0.147	-0.103	0.006
31	0.100	-0.762	-0.788	-0.721	0.009
32	0.200	-0.669	-0.734	-0.623	0.020
33	0.300	-0.897	-0.966	-0.631	0.041
34	0.400	-0.434	-0.563	-0.371	0.023
35	0.500	-0.212	-0.268	-0.157	0.015
36	0.600	-0.130	-0.173	-0.086	0.012
37	0.700	-0.033	-0.071	0.009	0.010
38	0.800	-0.091	-0.128	-0.057	0.009

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.118	1.100	1.134	0.005
70	0.010	0.337	0.303	0.374	0.011
71	0.020	0.139	0.104	0.176	0.010
72	0.030	-0.002	-0.037	0.032	0.010
73	0.040	-0.086	-0.116	-0.051	0.009
74	0.050	-0.215	-0.241	-0.183	0.008
75	0.075	-0.560	-0.659	-0.482	0.026
76	0.100	-0.485	-0.525	-0.437	0.012
77	0.150	-0.534	-0.592	-0.483	0.015
78	0.200	-0.502	-0.567	-0.450	0.017
79	0.250	-0.335	-0.396	-0.285	0.016
81	0.350	-0.237	-0.286	-0.191	0.014
82	0.400	-0.213	-0.254	-0.168	0.012
83	0.450	-0.292	-0.334	-0.248	0.011
84	0.500	-0.165	-0.203	-0.125	0.011
85	0.550	-0.124	-0.159	-0.085	0.011
86	0.600	-0.203	-0.239	-0.169	0.010
87	0.650	-0.053	-0.085	-0.020	0.009
88	0.700	-0.164	-0.199	-0.130	0.009
89	0.750	-0.016	-0.048	0.014	0.008
90	0.800	-0.071	-0.103	-0.039	0.009
91	0.850	-0.047	-0.078	-0.018	0.008
92	0.900	0.106	0.077	0.135	0.008
93	0.950	0.239	0.208	0.263	0.008
94	1.000	0.028	0.006	0.049	0.006

Lower surface at ETA = 0.95

95	0.010	0.262	0.230	0.301	0.010
96	0.020	-0.162	-0.192	-0.125	0.010
97	0.030	-0.284	-0.315	-0.251	0.009
98	0.050	-0.278	-0.304	-0.249	0.008
99	0.100	-0.547	-0.702	-0.403	0.055
100	0.200	-0.626	-0.698	-0.560	0.021
101	0.300	-0.324	-0.390	-0.269	0.017
102	0.400	-0.232	-0.281	-0.187	0.013
103	0.500	-0.118	-0.157	-0.077	0.012
104	0.600	-0.194	-0.228	-0.158	0.010
105	0.700	-0.122	-0.155	-0.089	0.009
106	0.800	-0.063	-0.093	-0.031	0.008
107	0.900	0.027	-0.004	0.054	0.008
108	0.950	0.153	0.128	0.176	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
614	0.79	136.6	0.04

The data was adjusted using wind-off zero 551

		Upper surface at ETA = 0.60						Upper surface at ETA = 0.95			
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.118	1.102	1.142	0.005	69	0.000	1.119	1.100	1.138	0.005
2	0.010	0.399	0.365	0.434	0.010	70	0.010	0.244	0.210	0.282	0.011
3	0.020	-0.041	-0.074	-0.005	0.010	71	0.020	0.047	0.016	0.080	0.010
4	0.030	-0.161	-0.192	-0.130	0.009	72	0.030	-0.088	-0.118	-0.053	0.010
5	0.040	-0.206	-0.234	-0.176	0.008	73	0.040	-0.160	-0.188	-0.128	0.009
6	0.050	-0.053	-0.078	-0.024	0.007	74	0.050	-0.272	-0.294	-0.244	0.007
7	0.075	-0.671	-0.747	-0.562	0.025	75	0.075	-0.818	-0.916	-0.657	0.033
8	0.100	-0.550	-0.570	-0.520	0.006	76	0.100	-0.528	-0.550	-0.491	0.007
9	0.150	-0.694	-0.722	-0.639	0.010	77	0.150	-0.591	-0.640	-0.527	0.015
10	0.200	-0.669	-0.712	-0.553	0.014	78	0.200	-0.545	-0.610	-0.477	0.020
11	0.250	-0.793	-0.858	-0.586	0.034	79	0.250	-0.364	-0.424	-0.305	0.018
12	0.300	-0.564	-0.779	-0.399	0.086	81	0.350	-0.249	-0.306	-0.190	0.015
13	0.350	-0.505	-0.707	-0.404	0.033	82	0.400	-0.219	-0.265	-0.164	0.014
14	0.400	-0.428	-0.562	-0.340	0.022	83	0.450	-0.295	-0.336	-0.244	0.012
15	0.450	-0.386	-0.444	-0.316	0.017	84	0.500	-0.166	-0.202	-0.114	0.011
16	0.500	-0.343	-0.395	-0.283	0.015	85	0.550	-0.122	-0.158	-0.069	0.011
62	0.550	-0.163	-0.209	-0.104	0.014	86	0.600	-0.199	-0.233	-0.152	0.011
18	0.600	-0.264	-0.304	-0.212	0.012	87	0.650	-0.048	-0.080	-0.005	0.010
63	0.650	-0.204	-0.231	-0.170	0.009	88	0.700	-0.158	-0.189	-0.116	0.010
20	0.700	-0.032	-0.068	0.015	0.013	89	0.750	-0.008	-0.038	0.029	0.009
21	0.750	-0.104	-0.142	-0.055	0.011	90	0.800	-0.062	-0.093	-0.023	0.009
22	0.800	-0.063	-0.103	-0.030	0.010	91	0.850	-0.038	-0.068	-0.003	0.008
66	0.850	0.127	0.092	0.162	0.009	92	0.900	0.116	0.086	0.150	0.008
25	0.950	0.263	0.226	0.298	0.008	93	0.950	0.279	0.249	0.312	0.008
26	1.000	0.261	0.239	0.286	0.007	94	1.000	0.027	0.003	0.051	0.006
		Lower surface at ETA = 0.60						Lower surface at ETA = 0.95			
27	0.010	0.381	0.348	0.413	0.009	95	0.010	0.360	0.322	0.397	0.010
28	0.020	0.098	0.061	0.132	0.010	96	0.020	-0.064	-0.103	-0.026	0.011
						97	0.030	-0.180	-0.226	-0.146	0.010
30	0.050	-0.060	-0.083	-0.031	0.006	98	0.050	-0.210	-0.243	-0.179	0.009
31	0.100	-0.414	-0.440	-0.392	0.006	99	0.100	-0.382	-0.423	-0.345	0.011
32	0.200	-0.645	-0.691	-0.539	0.015	100	0.200	-0.577	-0.648	-0.512	0.020
33	0.300	-0.685	-0.897	-0.520	0.079	101	0.300	-0.303	-0.367	-0.239	0.017
34	0.400	-0.439	-0.536	-0.352	0.022	102	0.400	-0.225	-0.276	-0.165	0.014
35	0.500	-0.214	-0.267	-0.155	0.015	103	0.500	-0.117	-0.157	-0.065	0.012
36	0.600	-0.131	-0.177	-0.080	0.012	104	0.600	-0.195	-0.233	-0.152	0.010
37	0.700	-0.035	-0.076	0.009	0.011	105	0.700	-0.126	-0.162	-0.085	0.010
38	0.800	-0.095	-0.130	-0.054	0.009	106	0.800	-0.068	-0.103	-0.033	0.009
						107	0.900	0.023	-0.010	0.058	0.009
						108	0.950	0.151	0.123	0.182	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
615	0.79	136.6	0.99

The data was adjusted using wind-off zero 551

Channel	x/c	Upper surface at ETA = 0.60 Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Upper surface at ETA = 0.95 Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.117	1.104	1.130	0.004	69	0.000	1.115	1.096	1.131	0.005
2	0.010	0.285	0.249	0.319	0.010	70	0.010	0.143	0.107	0.187	0.010
3	0.020	-0.152	-0.187	-0.119	0.009	71	0.020	-0.051	-0.091	-0.007	0.010
4	0.030	-0.262	-0.294	-0.232	0.008	72	0.030	-0.176	-0.209	-0.131	0.009
5	0.040	-0.288	-0.314	-0.262	0.007	73	0.040	-0.234	-0.267	-0.197	0.008
6	0.050	-0.123	-0.142	-0.097	0.006	74	0.050	-0.329	-0.355	-0.299	0.007
7	0.075	-0.824	-0.843	-0.807	0.005	75	0.075	-0.996	-1.023	-0.936	0.009
8	0.100	-0.884	-0.919	-0.786	0.012	76	0.100	-0.664	-0.855	-0.535	0.064
9	0.150	-0.724	-0.762	-0.664	0.018	77	0.150	-0.630	-0.675	-0.584	0.012
10	0.200	-0.711	-0.753	-0.675	0.011	78	0.200	-0.593	-0.656	-0.525	0.018
11	0.250	-0.884	-0.919	-0.835	0.011	79	0.250	-0.400	-0.483	-0.327	0.021
12	0.300	-0.786	-0.853	-0.463	0.050	81	0.350	-0.262	-0.312	-0.201	0.015
13	0.350	-0.564	-0.899	-0.431	0.081	82	0.400	-0.226	-0.275	-0.171	0.013
14	0.400	-0.419	-0.528	-0.345	0.023	83	0.450	-0.298	-0.342	-0.250	0.012
15	0.450	-0.380	-0.461	-0.316	0.019	84	0.500	-0.167	-0.208	-0.122	0.011
16	0.500	-0.341	-0.400	-0.283	0.016	85	0.550	-0.122	-0.161	-0.077	0.011
62	0.550	-0.162	-0.211	-0.108	0.014	86	0.600	-0.198	-0.234	-0.154	0.010
18	0.600	-0.263	-0.306	-0.212	0.012	87	0.650	-0.046	-0.080	-0.003	0.010
63	0.650	-0.202	-0.232	-0.167	0.009	88	0.700	-0.155	-0.189	-0.116	0.010
20	0.700	-0.029	-0.071	0.015	0.013	89	0.750	-0.004	-0.036	0.033	0.009
21	0.750	-0.101	-0.135	-0.065	0.010	90	0.800	-0.058	-0.089	-0.021	0.009
22	0.800	-0.060	-0.096	-0.016	0.010	91	0.850	-0.034	-0.066	-0.002	0.008
66	0.850	0.131	0.098	0.166	0.009	92	0.900	0.119	0.088	0.147	0.008
25	0.950	0.267	0.235	0.294	0.008	93	0.950	0.291	0.247	0.336	0.016
26	1.000	0.262	0.238	0.285	0.007	94	1.000	0.031	0.006	0.051	0.006
		Lower surface at ETA = 0.60						Lower surface at ETA = 0.95			
27	0.010	0.488	0.451	0.523	0.009	95	0.010	0.454	0.420	0.491	0.010
28	0.020	0.208	0.169	0.247	0.011	96	0.020	0.034	-0.003	0.073	0.011
						97	0.030	-0.079	-0.114	-0.043	0.010
30	0.050	0.017	-0.022	0.055	0.008	98	0.050	-0.139	-0.174	-0.107	0.009
31	0.100	-0.340	-0.373	-0.291	0.011	99	0.100	-0.325	-0.365	-0.280	0.012
32	0.200	-0.533	-0.596	-0.458	0.025	100	0.200	-0.532	-0.591	-0.471	0.017
33	0.300	-0.594	-0.760	-0.494	0.033	101	0.300	-0.285	-0.342	-0.232	0.015
34	0.400	-0.430	-0.509	-0.360	0.018	102	0.400	-0.219	-0.261	-0.166	0.013
35	0.500	-0.207	-0.253	-0.157	0.014	103	0.500	-0.117	-0.159	-0.071	0.011
36	0.600	-0.128	-0.169	-0.082	0.012	104	0.600	-0.199	-0.236	-0.162	0.010
37	0.700	-0.035	-0.067	0.011	0.010	105	0.700	-0.133	-0.166	-0.098	0.009
38	0.800	-0.098	-0.132	-0.052	0.009	106	0.800	-0.077	-0.104	-0.046	0.009
						107	0.900	0.012	-0.015	0.046	0.008
						108	0.950	0.144	0.117	0.173	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
616	0.79	137.2	2.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.101	1.084	1.117	0.005
2	0.010	0.167	0.127	0.211	0.010
3	0.020	-0.257	-0.294	-0.223	0.009
4	0.030	-0.355	-0.387	-0.324	0.008
5	0.040	-0.361	-0.388	-0.337	0.007
6	0.050	-0.183	-0.205	-0.160	0.006
7	0.075	-0.863	-0.877	-0.844	0.004
8	0.100	-0.976	-0.999	-0.953	0.006
9	0.150	-0.947	-0.980	-0.914	0.009
10	0.200	-0.863	-0.915	-0.812	0.016
11	0.250	-0.977	-1.017	-0.936	0.013
12	0.300	-0.915	-0.951	-0.806	0.013
13	0.350	-0.766	-1.066	-0.461	0.131
14	0.400	-0.429	-0.645	-0.354	0.030
15	0.450	-0.365	-0.439	-0.309	0.018
16	0.500	-0.324	-0.380	-0.272	0.016
62	0.550	-0.149	-0.203	-0.099	0.015
18	0.600	-0.252	-0.296	-0.206	0.013
63	0.650	-0.192	-0.224	-0.161	0.009
20	0.700	-0.021	-0.061	0.019	0.013
21	0.750	-0.094	-0.130	-0.055	0.010
22	0.800	-0.053	-0.088	-0.016	0.010
66	0.850	0.136	0.107	0.165	0.009
25	0.950	0.268	0.243	0.297	0.008
26	1.000	0.261	0.237	0.284	0.007

Lower surface at ETA = 0.60

27	0.010	0.587	0.552	0.622	0.010
28	0.020	0.312	0.273	0.353	0.011
30	0.050	0.096	0.063	0.131	0.010
31	0.100	-0.242	-0.287	-0.201	0.012
32	0.200	-0.430	-0.496	-0.367	0.020
33	0.300	-0.535	-0.641	-0.476	0.022
34	0.400	-0.405	-0.472	-0.352	0.016
35	0.500	-0.195	-0.243	-0.150	0.013
36	0.600	-0.123	-0.166	-0.085	0.012
37	0.700	-0.034	-0.074	0.006	0.010
38	0.800	-0.099	-0.136	-0.066	0.009

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.099	1.083	1.117	0.005
70	0.010	0.044	0.008	0.078	0.010
71	0.020	-0.152	-0.187	-0.117	0.010
72	0.030	-0.262	-0.293	-0.229	0.009
73	0.040	-0.306	-0.329	-0.278	0.008
74	0.050	-0.381	-0.405	-0.358	0.006
75	0.075	-1.034	-1.049	-1.015	0.004
76	0.100	-0.956	-0.986	-0.894	0.011
77	0.150	-0.666	-0.701	-0.637	0.007
78	0.200	-0.636	-0.733	-0.573	0.018
79	0.250	-0.436	-0.529	-0.370	0.023
81	0.350	-0.277	-0.347	-0.224	0.017
82	0.400	-0.235	-0.289	-0.188	0.014
83	0.450	-0.303	-0.347	-0.260	0.012
84	0.500	-0.171	-0.212	-0.133	0.011
85	0.550	-0.125	-0.163	-0.086	0.011
86	0.600	-0.199	-0.238	-0.165	0.011
87	0.650	-0.047	-0.083	-0.013	0.010
88	0.700	-0.155	-0.188	-0.124	0.010
89	0.750	-0.006	-0.036	0.026	0.009
90	0.800	-0.060	-0.089	-0.027	0.009
91	0.850	-0.037	-0.067	-0.005	0.008
92	0.900	0.110	0.085	0.142	0.008
93	0.950	0.245	0.219	0.272	0.007
94	1.000	0.036	0.016	0.056	0.006

Lower surface at ETA = 0.95

95	0.010	0.541	0.501	0.573	0.010
96	0.020	0.125	0.084	0.163	0.011
97	0.030	0.019	-0.022	0.058	0.011
98	0.050	-0.068	-0.103	-0.036	0.010
99	0.100	-0.265	-0.305	-0.225	0.013
100	0.200	-0.492	-0.546	-0.443	0.016
101	0.300	-0.269	-0.332	-0.219	0.014
102	0.400	-0.213	-0.269	-0.164	0.013
103	0.500	-0.118	-0.160	-0.077	0.011
104	0.600	-0.203	-0.237	-0.171	0.010
105	0.700	-0.140	-0.171	-0.108	0.009
106	0.800	-0.087	-0.117	-0.058	0.009
107	0.900	0.001	-0.028	0.035	0.008
108	0.950	0.134	0.110	0.164	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
617	0.79	137.2	2.97

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.074	1.056	1.092	0.005
2	0.010	0.049	0.008	0.084	0.011
3	0.020	-0.372	-0.408	-0.336	0.010
4	0.030	-0.457	-0.488	-0.425	0.009
5	0.040	-0.442	-0.467	-0.417	0.007
6	0.050	-0.251	-0.273	-0.228	0.007
7	0.075	-0.897	-0.914	-0.882	0.005
8	0.100	-1.037	-1.053	-1.020	0.005
9	0.150	-1.058	-1.078	-1.034	0.007
10	0.200	-0.995	-1.018	-0.973	0.007
11	0.250	-1.106	-1.133	-1.073	0.008
12	0.300	-0.995	-1.036	-0.954	0.012
13	0.350	-1.028	-1.152	-0.649	0.093
14	0.400	-0.519	-0.846	-0.410	0.044
15	0.450	-0.401	-0.519	-0.335	0.023
16	0.500	-0.330	-0.414	-0.283	0.016
62	0.550	-0.143	-0.203	-0.099	0.014
18	0.600	-0.240	-0.283	-0.200	0.013
63	0.650	-0.180	-0.216	-0.150	0.009
20	0.700	-0.009	-0.051	0.030	0.012
21	0.750	-0.084	-0.119	-0.045	0.011
22	0.800	-0.045	-0.082	-0.009	0.010
66	0.850	0.141	0.109	0.175	0.009
25	0.950	0.267	0.241	0.299	0.008
26	1.000	0.259	0.237	0.284	0.007

Lower surface at ETA = 0.60

27	0.010	0.676	0.647	0.711	0.009
28	0.020	0.409	0.377	0.444	0.011
30	0.050	0.174	0.009	0.209	0.011
31	0.100	-0.151	-0.198	-0.111	0.012
32	0.200	-0.344	-0.419	-0.288	0.016
33	0.300	-0.479	-0.546	-0.423	0.018
34	0.400	-0.377	-0.439	-0.330	0.015
35	0.500	-0.180	-0.231	-0.140	0.013
36	0.600	-0.115	-0.154	-0.081	0.012
37	0.700	-0.033	-0.067	0.004	0.010
38	0.800	-0.100	-0.132	-0.071	0.009

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.078	1.059	1.098	0.005
70	0.010	-0.059	-0.096	-0.026	0.011
71	0.020	-0.253	-0.286	-0.220	0.010
72	0.030	-0.354	-0.384	-0.323	0.009
73	0.040	-0.380	-0.407	-0.354	0.008
74	0.050	-0.439	-0.462	-0.416	0.007
75	0.075	-1.070	-1.085	-1.054	0.004
76	0.100	-1.020	-1.039	-0.995	0.006
77	0.150	-0.759	-0.837	-0.684	0.024
78	0.200	-0.737	-0.774	-0.635	0.017
79	0.250	-0.494	-0.592	-0.407	0.028
81	0.350	-0.296	-0.379	-0.236	0.018
82	0.400	-0.248	-0.317	-0.195	0.015
83	0.450	-0.312	-0.376	-0.266	0.013
84	0.500	-0.178	-0.230	-0.135	0.012
85	0.550	-0.131	-0.176	-0.093	0.012
86	0.600	-0.204	-0.246	-0.166	0.011
87	0.650	-0.053	-0.091	-0.016	0.010
88	0.700	-0.160	-0.197	-0.127	0.010
89	0.750	-0.012	-0.045	0.021	0.009
90	0.800	-0.067	-0.100	-0.035	0.009
91	0.850	-0.046	-0.076	-0.016	0.008
92	0.900	0.096	0.068	0.126	0.008
93	0.950	0.243	0.213	0.274	0.009
94	1.000	0.035	0.013	0.057	0.006

Lower surface at ETA = 0.95

95	0.010	0.619	0.584	0.655	0.010
96	0.020	0.207	0.167	0.244	0.010
97	0.030	0.111	0.068	0.148	0.010
98	0.050	0.000	-0.041	0.038	0.010
99	0.100	-0.204	-0.257	-0.161	0.012
100	0.200	-0.455	-0.513	-0.406	0.014
101	0.300	-0.253	-0.304	-0.205	0.014
102	0.400	-0.207	-0.259	-0.161	0.012
103	0.500	-0.119	-0.164	-0.075	0.012
104	0.600	-0.207	-0.248	-0.172	0.010
105	0.700	-0.147	-0.183	-0.114	0.010
106	0.800	-0.097	-0.129	-0.067	0.009
107	0.900	-0.009	-0.038	0.019	0.008
108	0.950	0.126	0.100	0.154	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
618	0.79	137.1	4.00

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.043	1.019	1.064	0.006
2	0.010	-0.071	-0.113	-0.023	0.012
3	0.020	-0.492	-0.536	-0.448	0.011
4	0.030	-0.570	-0.612	-0.525	0.011
5	0.040	-0.532	-0.567	-0.495	0.009
6	0.050	-0.332	-0.362	-0.296	0.008
7	0.075	-0.916	-0.929	-0.899	0.004
8	0.100	-1.082	-1.096	-1.060	0.005
9	0.150	-1.138	-1.159	-1.114	0.006
10	0.200	-1.069	-1.085	-1.048	0.005
11	0.250	-1.206	-1.228	-1.181	0.007
12	0.300	-1.118	-1.142	-1.072	0.009
13	0.350	-1.060	-1.227	-0.700	0.109
14	0.400	-0.581	-0.786	-0.485	0.034
15	0.450	-0.480	-0.563	-0.394	0.025
16	0.500	-0.396	-0.473	-0.320	0.023
62	0.550	-0.188	-0.266	-0.127	0.019
18	0.600	-0.265	-0.329	-0.218	0.015
63	0.650	-0.191	-0.231	-0.161	0.009
20	0.700	-0.015	-0.056	0.020	0.011
21	0.750	-0.084	-0.122	-0.051	0.009
22	0.800	-0.043	-0.079	-0.009	0.009
66	0.850	0.141	0.107	0.173	0.008
25	0.950	0.260	0.236	0.288	0.008
26	1.000	0.248	0.222	0.271	0.006

Lower surface at ETA = 0.60

27	0.010	0.759	0.730	0.792	0.009
28	0.020	0.500	0.464	0.537	0.011
30	0.050	0.251	0.220	0.286	0.010
31	0.100	-0.068	-0.105	-0.028	0.011
32	0.200	-0.272	-0.324	-0.219	0.014
33	0.300	-0.431	-0.489	-0.376	0.015
34	0.400	-0.352	-0.402	-0.302	0.013
35	0.500	-0.168	-0.208	-0.127	0.011
36	0.600	-0.111	-0.150	-0.077	0.011
37	0.700	-0.036	-0.074	0.002	0.009
38	0.800	-0.106	-0.139	-0.078	0.009

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.053	1.035	1.076	0.006
70	0.010	-0.162	-0.200	-0.118	0.011
71	0.020	-0.358	-0.394	-0.317	0.011
72	0.030	-0.452	-0.486	-0.415	0.010
73	0.040	-0.461	-0.492	-0.429	0.009
74	0.050	-0.505	-0.535	-0.472	0.008
75	0.075	-1.092	-1.105	-1.079	0.004
76	0.100	-1.063	-1.080	-1.046	0.005
77	0.150	-0.888	-0.980	-0.820	0.023
78	0.200	-0.765	-0.836	-0.715	0.016
79	0.250	-0.563	-0.672	-0.457	0.033
81	0.350	-0.318	-0.394	-0.258	0.020
82	0.400	-0.263	-0.329	-0.211	0.016
83	0.450	-0.323	-0.380	-0.274	0.013
84	0.500	-0.188	-0.233	-0.141	0.012
85	0.550	-0.141	-0.184	-0.098	0.012
86	0.600	-0.214	-0.251	-0.177	0.010
87	0.650	-0.062	-0.098	-0.025	0.010
88	0.700	-0.169	-0.204	-0.138	0.009
89	0.750	-0.021	-0.056	0.008	0.008
90	0.800	-0.078	-0.113	-0.050	0.009
91	0.850	-0.063	-0.095	-0.035	0.008
92	0.900	0.077	0.047	0.104	0.008
93	0.950	0.240	0.190	0.286	0.017
94	1.000	0.031	0.008	0.051	0.006

Lower surface at ETA = 0.95

95	0.010	0.694	0.660	0.733	0.009
96	0.020	0.286	0.249	0.324	0.010
97	0.030	0.196	0.164	0.232	0.010
98	0.050	0.068	0.031	0.104	0.011
99	0.100	-0.148	-0.187	-0.094	0.012
100	0.200	-0.423	-0.476	-0.372	0.014
101	0.300	-0.239	-0.296	-0.192	0.013
102	0.400	-0.204	-0.252	-0.161	0.012
103	0.500	-0.119	-0.162	-0.079	0.011
104	0.600	-0.213	-0.246	-0.176	0.010
105	0.700	-0.156	-0.190	-0.123	0.009
106	0.800	-0.107	-0.139	-0.078	0.009
107	0.900	-0.019	-0.052	0.006	0.008
108	0.950	0.118	0.088	0.141	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
619	0.79	137.6	4.98

The data was adjusted using wind-off zero 551

Channel	x/c	Upper surface at ETA = 0.60 Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Upper surface at ETA = 0.95 Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.999	0.977	1.024	0.006	69	0.000	1.019	1.000	1.039	0.006
2	0.010	-0.186	-0.222	-0.141	0.012	70	0.010	-0.261	-0.298	-0.221	0.012
3	0.020	-0.611	-0.647	-0.564	0.012	71	0.020	-0.460	-0.494	-0.423	0.011
4	0.030	-0.693	-0.732	-0.644	0.013	72	0.030	-0.556	-0.592	-0.513	0.012
5	0.040	-0.638	-0.677	-0.596	0.012	73	0.040	-0.549	-0.592	-0.510	0.011
6	0.050	-0.432	-0.468	-0.390	0.012	74	0.050	-0.582	-0.621	-0.546	0.010
7	0.075	-0.916	-0.929	-0.904	0.004	75	0.075	-1.098	-1.111	-1.087	0.004
8	0.100	-1.111	-1.124	-1.096	0.004	76	0.100	-1.087	-1.102	-1.072	0.004
9	0.150	-1.199	-1.222	-1.179	0.005	77	0.150	-1.000	-1.072	-0.910	0.026
10	0.200	-1.117	-1.141	-1.098	0.005	78	0.200	-0.821	-0.881	-0.742	0.021
11	0.250	-1.267	-1.289	-1.102	0.007	79	0.250	-0.621	-0.710	-0.465	0.034
12	0.300	-1.077	-1.198	-0.535	0.125	81	0.350	-0.321	-0.433	-0.243	0.024
13	0.350	-0.691	-1.181	-0.566	0.071	82	0.400	-0.263	-0.337	-0.206	0.018
14	0.400	-0.570	-0.667	-0.482	0.025	83	0.450	-0.324	-0.378	-0.277	0.014
15	0.450	-0.519	-0.609	-0.419	0.025	84	0.500	-0.193	-0.235	-0.151	0.012
16	0.500	-0.458	-0.557	-0.352	0.025	85	0.550	-0.147	-0.185	-0.105	0.011
62	0.550	-0.263	-0.353	-0.161	0.027	86	0.600	-0.220	-0.257	-0.181	0.010
18	0.600	-0.338	-0.429	-0.249	0.026	87	0.650	-0.070	-0.103	-0.033	0.010
63	0.650	-0.259	-0.337	-0.200	0.020	88	0.700	-0.177	-0.211	-0.142	0.009
20	0.700	-0.080	-0.173	-0.009	0.023	89	0.750	-0.035	-0.066	-0.006	0.009
21	0.750	-0.134	-0.215	-0.074	0.021	90	0.800	-0.095	-0.126	-0.063	0.009
22	0.800	-0.088	-0.167	-0.027	0.020	91	0.850	-0.081	-0.110	-0.051	0.008
66	0.850	0.095	0.019	0.153	0.018	92	0.900	0.056	0.027	0.083	0.008
25	0.950	0.208	0.124	0.258	0.019	93	0.950	0.190	0.162	0.222	0.008
26	1.000	0.192	0.115	0.234	0.017	94	1.000	0.024	0.006	0.049	0.006
		Lower surface at ETA = 0.60						Lower surface at ETA = 0.95			
27	0.010	0.825	0.797	0.853	0.008	95	0.010	0.756	0.722	0.787	0.009
28	0.020	0.577	0.541	0.611	0.010	96	0.020	0.355	0.318	0.388	0.009
						97	0.030	0.270	0.236	0.304	0.010
30	0.050	0.319	0.284	0.350	0.010	98	0.050	0.130	0.098	0.163	0.009
31	0.100	0.003	-0.033	0.038	0.011	99	0.100	-0.097	-0.131	-0.055	0.011
32	0.200	-0.214	-0.257	-0.172	0.012	100	0.200	-0.392	-0.433	-0.346	0.012
33	0.300	-0.393	-0.440	-0.346	0.014	101	0.300	-0.226	-0.270	-0.184	0.013
34	0.400	-0.334	-0.381	-0.291	0.014	102	0.400	-0.202	-0.246	-0.163	0.012
35	0.500	-0.166	-0.210	-0.125	0.012	103	0.500	-0.124	-0.161	-0.089	0.011
36	0.600	-0.120	-0.161	-0.079	0.012	104	0.600	-0.221	-0.257	-0.188	0.010
37	0.700	-0.054	-0.092	-0.009	0.011	105	0.700	-0.166	-0.200	-0.130	0.009
38	0.800	-0.132	-0.169	-0.096	0.012	106	0.800	-0.118	-0.149	-0.084	0.008
						107	0.900	-0.030	-0.057	0.002	0.008
						108	0.950	0.106	0.081	0.133	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
620	0.79	137.6	6.00

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.949	0.920	0.973	0.007
2	0.010	-0.306	-0.344	-0.266	0.011
3	0.020	-0.736	-0.773	-0.697	0.011
4	0.030	-0.838	-0.878	-0.795	0.012
5	0.040	-0.833	-0.888	-0.761	0.020
6	0.050	-0.616	-0.676	-0.546	0.020
7	0.075	-0.927	-0.951	-0.908	0.006
8	0.100	-1.124	-1.137	-1.110	0.003
9	0.150	-1.251	-1.269	-1.238	0.004
10	0.200	-1.168	-1.188	-1.070	0.006
11	0.250	-1.208	-1.328	-0.686	0.121
12	0.300	-0.616	-1.158	-0.476	0.081
13	0.350	-0.623	-0.743	-0.544	0.024
14	0.400	-0.568	-0.655	-0.487	0.023
15	0.450	-0.539	-0.626	-0.447	0.024
16	0.500	-0.497	-0.582	-0.395	0.026
62	0.550	-0.322	-0.409	-0.217	0.029
18	0.600	-0.408	-0.521	-0.300	0.029
63	0.650	-0.339	-0.446	-0.267	0.024
20	0.700	-0.168	-0.291	-0.069	0.031
21	0.750	-0.221	-0.340	-0.111	0.032
22	0.800	-0.175	-0.283	-0.075	0.031
66	0.850	0.004	-0.129	0.105	0.029
25	0.950	0.113	-0.008	0.216	0.027
26	1.000	0.101	0.004	0.202	0.025

Lower surface at ETA = 0.60

27	0.010	0.890	0.866	0.919	0.007
28	0.020	0.652	0.622	0.684	0.010
30	0.050	0.386	0.356	0.419	0.010
31	0.100	0.077	0.041	0.111	0.010
32	0.200	-0.159	-0.196	-0.120	0.012
33	0.300	-0.354	-0.399	-0.312	0.012
34	0.400	-0.314	-0.363	-0.270	0.013
35	0.500	-0.162	-0.206	-0.121	0.012
36	0.600	-0.128	-0.177	-0.087	0.012
37	0.700	-0.073	-0.114	-0.027	0.012
38	0.800	-0.161	-0.197	-0.108	0.012

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	0.981	0.946	0.999	0.006
70	0.010	-0.365	-0.423	-0.328	0.011
71	0.020	-0.567	-0.622	-0.531	0.011
72	0.030	-0.675	-0.731	-0.634	0.012
73	0.040	-0.689	-0.766	-0.635	0.017
74	0.050	-0.708	-0.797	-0.653	0.017
75	0.075	-1.096	-1.112	-1.083	0.004
76	0.100	-1.102	-1.114	-1.090	0.004
77	0.150	-1.082	-1.139	-1.002	0.019
78	0.200	-0.872	-0.943	-0.795	0.019
79	0.250	-0.655	-0.754	-0.470	0.040
81	0.350	-0.315	-0.423	-0.231	0.025
82	0.400	-0.261	-0.326	-0.206	0.017
83	0.450	-0.328	-0.376	-0.285	0.014
84	0.500	-0.201	-0.241	-0.162	0.012
85	0.550	-0.158	-0.197	-0.118	0.011
86	0.600	-0.232	-0.267	-0.193	0.010
87	0.650	-0.085	-0.118	-0.048	0.010
88	0.700	-0.194	-0.227	-0.152	0.010
89	0.750	-0.056	-0.089	-0.022	0.009
90	0.800	-0.118	-0.151	-0.080	0.009
91	0.850	-0.106	-0.140	-0.070	0.009
92	0.900	0.027	-0.005	0.061	0.009
93	0.950	0.171	0.136	0.199	0.009
94	1.000	0.015	-0.009	0.049	0.006

Lower surface at ETA = 0.95

95	0.010	0.816	0.789	0.844	0.009
96	0.020	0.421	0.391	0.451	0.009
97	0.030	0.282	0.252	0.319	0.010
98	0.050	0.189	0.160	0.221	0.009
99	0.100	-0.044	-0.079	-0.011	0.010
100	0.200	-0.361	-0.407	-0.322	0.012
101	0.300	-0.213	-0.266	-0.161	0.013
102	0.400	-0.198	-0.248	-0.151	0.012
103	0.500	-0.130	-0.173	-0.091	0.011
104	0.600	-0.229	-0.265	-0.193	0.010
105	0.700	-0.177	-0.211	-0.142	0.010
106	0.800	-0.131	-0.160	-0.100	0.009
107	0.900	-0.043	-0.072	-0.014	0.008
108	0.950	0.093	0.067	0.120	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
621	0.78	139.3	-0.91

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.113	1.096	1.130	0.005
2	0.010	0.501	0.465	0.538	0.010
3	0.020	0.060	0.023	0.094	0.010
4	0.030	-0.070	-0.103	-0.034	0.011
5	0.040	-0.129	-0.158	-0.096	0.009
6	0.050	0.004	-0.066	0.033	0.008
7	0.075	-0.424	-0.481	-0.368	0.017
8	0.100	-0.479	-0.516	-0.437	0.012
9	0.150	-0.586	-0.641	-0.525	0.017
10	0.200	-0.531	-0.611	-0.451	0.023
11	0.250	-0.595	-0.712	-0.520	0.025
12	0.300	-0.444	-0.557	-0.371	0.022
13	0.350	-0.482	-0.550	-0.422	0.017
14	0.400	-0.412	-0.467	-0.359	0.015
15	0.450	-0.373	-0.420	-0.326	0.013
16	0.500	-0.334	-0.380	-0.290	0.012
62	0.550	-0.158	-0.202	-0.117	0.012
18	0.600	-0.259	-0.301	-0.222	0.010
63	0.650	-0.202	-0.230	-0.177	0.008
20	0.700	-0.035	-0.070	0.001	0.012
21	0.750	-0.106	-0.145	-0.071	0.010
22	0.800	-0.067	-0.107	-0.034	0.010
66	0.850	0.119	0.085	0.151	0.009
25	0.950	0.255	0.217	0.283	0.008
26	1.000	0.260	0.239	0.282	0.007

Lower surface at ETA = 0.60

27	0.010	0.251	0.218	0.284	0.010
28	0.020	-0.036	-0.075	0.001	0.011
30	0.050	-0.148	-0.174	-0.125	0.007
31	0.100	-0.778	-0.822	-0.608	0.022
32	0.200	-0.706	-0.739	-0.650	0.012
33	0.300	-0.737	-0.965	-0.546	0.092
34	0.400	-0.444	-0.519	-0.383	0.019
35	0.500	-0.220	-0.264	-0.172	0.013
36	0.600	-0.135	-0.175	-0.098	0.011
37	0.700	-0.037	-0.075	-0.002	0.010
38	0.800	-0.093	-0.125	-0.063	0.009

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.117	1.097	1.134	0.005
70	0.010	0.333	0.302	0.377	0.010
71	0.020	0.132	0.099	0.171	0.010
72	0.030	-0.010	-0.042	0.029	0.010
73	0.040	-0.094	-0.126	-0.055	0.009
74	0.050	-0.222	-0.249	-0.185	0.008
75	0.075	-0.521	-0.595	-0.450	0.018
76	0.100	-0.479	-0.529	-0.425	0.012
77	0.150	-0.517	-0.577	-0.466	0.014
78	0.200	-0.484	-0.544	-0.431	0.015
79	0.250	-0.323	-0.372	-0.275	0.014
81	0.350	-0.231	-0.278	-0.185	0.012
82	0.400	-0.208	-0.251	-0.170	0.011
83	0.450	-0.286	-0.324	-0.248	0.011
84	0.500	-0.163	-0.203	-0.126	0.010
85	0.550	-0.122	-0.158	-0.091	0.010
86	0.600	-0.200	-0.236	-0.170	0.009
87	0.650	-0.053	-0.087	-0.023	0.009
88	0.700	-0.162	-0.194	-0.132	0.009
89	0.750	-0.016	-0.044	0.013	0.008
90	0.800	-0.070	-0.100	-0.041	0.008
91	0.850	-0.047	-0.074	-0.018	0.008
92	0.900	0.104	0.078	0.129	0.008
93	0.950	0.242	0.218	0.272	0.008
94	1.000	0.028	0.008	0.048	0.006

Lower surface at ETA = 0.95

95	0.010	0.247	0.207	0.281	0.010
96	0.020	-0.176	-0.215	-0.143	0.010
97	0.030	-0.278	-0.310	-0.241	0.010
98	0.050	-0.293	-0.322	-0.266	0.008
99	0.100	-0.450	-0.593	-0.398	0.020
100	0.200	-0.597	-0.672	-0.531	0.019
101	0.300	-0.311	-0.367	-0.261	0.015
102	0.400	-0.227	-0.269	-0.183	0.012
103	0.500	-0.117	-0.156	-0.080	0.011
104	0.600	-0.191	-0.226	-0.159	0.009
105	0.700	-0.121	-0.152	-0.090	0.009
106	0.800	-0.063	-0.092	-0.030	0.008
107	0.900	0.027	0.000	0.054	0.008
108	0.950	0.151	0.126	0.173	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
622	0.78	139.7	0.05

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.114	1.100	1.130	0.005
2	0.010	0.386	0.352	0.424	0.010
3	0.020	-0.054	-0.090	-0.016	0.010
4	0.030	-0.176	-0.207	-0.139	0.010
5	0.040	-0.222	-0.248	-0.192	0.008
6	0.050	-0.071	-0.102	-0.044	0.007
7	0.075	-0.644	-0.741	-0.540	0.029
8	0.100	-0.569	-0.592	-0.528	0.008
9	0.150	-0.696	-0.732	-0.618	0.014
10	0.200	-0.650	-0.709	-0.539	0.027
11	0.250	-0.696	-0.837	-0.576	0.052
12	0.300	-0.483	-0.646	-0.402	0.034
13	0.350	-0.507	-0.610	-0.430	0.021
14	0.400	-0.430	-0.496	-0.366	0.017
15	0.450	-0.386	-0.442	-0.338	0.014
16	0.500	-0.344	-0.391	-0.303	0.012
62	0.550	-0.165	-0.209	-0.128	0.012
18	0.600	-0.264	-0.299	-0.230	0.011
63	0.650	-0.205	-0.234	-0.178	0.009
20	0.700	-0.035	-0.068	0.001	0.012
21	0.750	-0.105	-0.139	-0.069	0.010
22	0.800	-0.065	-0.107	-0.033	0.010
66	0.850	0.123	0.092	0.153	0.009
25	0.950	0.258	0.232	0.285	0.008
26	1.000	0.258	0.238	0.280	0.007

Lower surface at ETA = 0.60

27	0.010	0.366	0.331	0.400	0.010
28	0.020	0.081	0.044	0.118	0.010
30	0.050	-0.079	-0.105	-0.054	0.008
31	0.100	-0.435	-0.458	-0.403	0.007
32	0.200	-0.628	-0.691	-0.517	0.028
33	0.300	-0.613	-0.774	-0.524	0.033
34	0.400	-0.441	-0.499	-0.380	0.017
35	0.500	-0.215	-0.259	-0.168	0.012
36	0.600	-0.133	-0.173	-0.093	0.011
37	0.700	-0.038	-0.076	-0.005	0.010
38	0.800	-0.096	-0.129	-0.065	0.009

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.115	1.101	1.131	0.004
70	0.010	0.236	0.197	0.276	0.011
71	0.020	0.036	0.001	0.069	0.010
72	0.030	-0.099	-0.131	-0.065	0.010
73	0.040	-0.171	-0.201	-0.139	0.009
74	0.050	-0.283	-0.309	-0.256	0.008
75	0.075	-0.736	-0.852	-0.605	0.038
76	0.100	-0.534	-0.566	-0.490	0.010
77	0.150	-0.569	-0.619	-0.515	0.015
78	0.200	-0.520	-0.572	-0.468	0.016
79	0.250	-0.347	-0.403	-0.300	0.015
81	0.350	-0.241	-0.293	-0.198	0.013
82	0.400	-0.214	-0.259	-0.177	0.012
83	0.450	-0.289	-0.330	-0.251	0.011
84	0.500	-0.163	-0.202	-0.127	0.010
85	0.550	-0.121	-0.157	-0.088	0.010
86	0.600	-0.197	-0.227	-0.166	0.010
87	0.650	-0.048	-0.078	-0.018	0.009
88	0.700	-0.156	-0.186	-0.127	0.009
89	0.750	-0.008	-0.037	0.019	0.008
90	0.800	-0.062	-0.091	-0.033	0.008
91	0.850	-0.038	-0.065	-0.011	0.008
92	0.900	0.114	0.088	0.138	0.008
93	0.950	0.278	0.240	0.309	0.012
94	1.000	0.026	0.006	0.048	0.005

Lower surface at ETA = 0.95

95	0.010	0.348	0.316	0.386	0.010
96	0.020	-0.075	-0.109	-0.033	0.011
97	0.030	-0.170	-0.204	-0.129	0.010
98	0.050	-0.221	-0.248	-0.187	0.009
99	0.100	-0.384	-0.424	-0.341	0.012
100	0.200	-0.552	-0.612	-0.498	0.016
101	0.300	-0.292	-0.334	-0.247	0.014
102	0.400	-0.220	-0.261	-0.183	0.012
103	0.500	-0.115	-0.149	-0.077	0.011
104	0.600	-0.192	-0.223	-0.160	0.009
105	0.700	-0.125	-0.155	-0.094	0.009
106	0.800	-0.068	-0.097	-0.039	0.008
107	0.900	0.022	-0.006	0.053	0.008
108	0.950	0.149	0.124	0.173	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
623	0.78	140.1	1.04

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.111	1.094	1.125	0.005
2	0.010	0.267	0.234	0.308	0.010
3	0.020	-0.170	-0.202	-0.129	0.009
4	0.030	-0.280	-0.309	-0.246	0.008
5	0.040	-0.308	-0.330	-0.279	0.007
6	0.050	-0.144	-0.171	-0.122	0.006
7	0.075	-0.857	-0.877	-0.830	0.006
8	0.100	-0.881	-0.939	-0.644	0.034
9	0.150	-0.725	-0.772	-0.679	0.014
10	0.200	-0.742	-0.768	-0.675	0.010
11	0.250	-0.882	-0.924	-0.643	0.027
12	0.300	-0.604	-0.847	-0.414	0.100
13	0.350	-0.505	-0.672	-0.434	0.026
14	0.400	-0.432	-0.513	-0.370	0.020
15	0.450	-0.390	-0.456	-0.334	0.016
16	0.500	-0.347	-0.401	-0.289	0.013
62	0.550	-0.168	-0.212	-0.108	0.013
18	0.600	-0.265	-0.301	-0.213	0.011
63	0.650	-0.205	-0.232	-0.172	0.009
20	0.700	-0.034	-0.068	0.009	0.012
21	0.750	-0.103	-0.137	-0.055	0.011
22	0.800	-0.062	-0.098	-0.029	0.010
66	0.850	0.127	0.097	0.158	0.009
25	0.950	0.262	0.236	0.288	0.008
26	1.000	0.259	0.238	0.283	0.007

Lower surface at ETA = 0.60

27	0.010	0.480	0.442	0.509	0.010
28	0.020	0.198	0.155	0.232	0.011
30	0.050	0.005	-0.030	0.034	0.009
31	0.100	-0.343	-0.385	-0.296	0.012
32	0.200	-0.508	-0.583	-0.428	0.024
33	0.300	-0.568	-0.651	-0.492	0.022
34	0.400	-0.421	-0.475	-0.368	0.015
35	0.500	-0.205	-0.246	-0.165	0.012
36	0.600	-0.128	-0.164	-0.087	0.011
37	0.700	-0.037	-0.071	0.006	0.010
38	0.800	-0.098	-0.131	-0.058	0.009

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.110	1.090	1.126	0.005
70	0.010	0.132	0.097	0.172	0.011
71	0.020	-0.065	-0.101	-0.026	0.010
72	0.030	-0.189	-0.219	-0.153	0.009
73	0.040	-0.249	-0.280	-0.220	0.008
74	0.050	-0.342	-0.367	-0.316	0.007
75	0.075	-0.998	-1.038	-0.895	0.018
76	0.100	-0.569	-0.707	-0.531	0.018
77	0.150	-0.624	-0.663	-0.571	0.014
78	0.200	-0.566	-0.628	-0.498	0.018
79	0.250	-0.377	-0.444	-0.310	0.017
81	0.350	-0.254	-0.308	-0.201	0.014
82	0.400	-0.222	-0.270	-0.180	0.012
83	0.450	-0.293	-0.337	-0.255	0.011
84	0.500	-0.165	-0.204	-0.130	0.010
85	0.550	-0.121	-0.158	-0.088	0.010
86	0.600	-0.196	-0.226	-0.163	0.010
87	0.650	-0.046	-0.078	-0.013	0.009
88	0.700	-0.153	-0.183	-0.121	0.009
89	0.750	-0.005	-0.030	0.026	0.009
90	0.800	-0.057	-0.084	-0.026	0.009
91	0.850	-0.034	-0.059	-0.005	0.008
92	0.900	0.116	0.091	0.145	0.008
93	0.950	0.283	0.253	0.316	0.010
94	1.000	0.030	0.011	0.050	0.006

Lower surface at ETA = 0.95

95	0.010	0.445	0.406	0.485	0.010
96	0.020	0.027	-0.013	0.071	0.011
97	0.030	-0.068	-0.106	-0.030	0.010
98	0.050	-0.148	-0.180	-0.116	0.010
99	0.100	-0.324	-0.362	-0.280	0.012
100	0.200	-0.513	-0.565	-0.451	0.015
101	0.300	-0.276	-0.326	-0.222	0.013
102	0.400	-0.213	-0.257	-0.171	0.012
103	0.500	-0.115	-0.151	-0.079	0.011
104	0.600	-0.195	-0.231	-0.163	0.010
105	0.700	-0.131	-0.163	-0.098	0.009
106	0.800	-0.077	-0.107	-0.048	0.008
107	0.900	0.012	-0.015	0.038	0.008
108	0.950	0.141	0.115	0.166	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
624	0.78	139.8	2.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.098	1.083	1.113	0.004
2	0.010	0.142	0.109	0.182	0.010
3	0.020	-0.284	-0.316	-0.251	0.009
4	0.030	-0.383	-0.409	-0.349	0.008
5	0.040	-0.389	-0.412	-0.363	0.007
6	0.050	-0.209	-0.232	-0.187	0.006
7	0.075	-0.906	-0.925	-0.889	0.005
8	0.100	-1.014	-1.032	-0.987	0.006
9	0.150	-0.969	-1.010	-0.916	0.011
10	0.200	-0.861	-0.926	-0.809	0.012
11	0.250	-0.979	-1.023	-0.905	0.012
12	0.300	-0.809	-0.956	-0.447	0.106
13	0.350	-0.514	-0.768	-0.418	0.037
14	0.400	-0.420	-0.512	-0.358	0.020
15	0.450	-0.382	-0.452	-0.325	0.016
16	0.500	-0.342	-0.402	-0.293	0.014
62	0.550	-0.164	-0.219	-0.118	0.013
18	0.600	-0.262	-0.307	-0.222	0.012
63	0.650	-0.201	-0.234	-0.171	0.009
20	0.700	-0.030	-0.066	0.007	0.012
21	0.750	-0.099	-0.139	-0.061	0.010
22	0.800	-0.057	-0.096	-0.018	0.010
66	0.850	0.132	0.103	0.160	0.009
25	0.950	0.265	0.234	0.291	0.008
26	1.000	0.260	0.238	0.281	0.007

Lower surface at ETA = 0.60

27	0.010	0.584	0.551	0.616	0.010
28	0.020	0.307	0.271	0.345	0.011
30	0.050	0.088	0.060	0.124	0.010
31	0.100	-0.244	-0.283	-0.201	0.012
32	0.200	-0.413	-0.479	-0.350	0.018
33	0.300	-0.515	-0.591	-0.441	0.017
34	0.400	-0.395	-0.452	-0.332	0.014
35	0.500	-0.190	-0.233	-0.145	0.012
36	0.600	-0.121	-0.157	-0.086	0.011
37	0.700	-0.034	-0.071	0.000	0.009
38	0.800	-0.100	-0.132	-0.072	0.009

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.098	1.080	1.115	0.005
70	0.010	0.027	-0.008	0.067	0.011
71	0.020	-0.171	-0.206	-0.137	0.010
72	0.030	-0.282	-0.313	-0.250	0.009
73	0.040	-0.326	-0.356	-0.298	0.008
74	0.050	-0.401	-0.426	-0.377	0.007
75	0.075	-1.074	-1.095	-1.055	0.006
76	0.100	-0.930	-0.998	-0.750	0.034
77	0.150	-0.673	-0.705	-0.619	0.013
78	0.200	-0.606	-0.672	-0.544	0.021
79	0.250	-0.406	-0.472	-0.343	0.019
81	0.350	-0.266	-0.319	-0.208	0.014
82	0.400	-0.230	-0.285	-0.181	0.013
83	0.450	-0.299	-0.350	-0.247	0.011
84	0.500	-0.169	-0.215	-0.127	0.010
85	0.550	-0.124	-0.165	-0.085	0.011
86	0.600	-0.198	-0.237	-0.162	0.010
87	0.650	-0.048	-0.083	-0.010	0.009
88	0.700	-0.155	-0.186	-0.118	0.009
89	0.750	-0.006	-0.037	0.029	0.008
90	0.800	-0.060	-0.090	-0.024	0.008
91	0.850	-0.038	-0.068	-0.004	0.008
92	0.900	0.110	0.080	0.140	0.008
93	0.950	0.259	0.226	0.290	0.009
94	1.000	0.035	0.012	0.055	0.006

Lower surface at ETA = 0.95

95	0.010	0.537	0.499	0.572	0.010
96	0.020	0.120	0.083	0.160	0.011
97	0.030	0.032	-0.008	0.068	0.011
98	0.050	-0.076	-0.109	-0.044	0.010
99	0.100	-0.264	-0.304	-0.218	0.012
100	0.200	-0.476	-0.524	-0.430	0.014
101	0.300	-0.259	-0.311	-0.209	0.013
102	0.400	-0.206	-0.250	-0.161	0.011
103	0.500	-0.115	-0.153	-0.072	0.011
104	0.600	-0.199	-0.232	-0.164	0.009
105	0.700	-0.138	-0.168	-0.103	0.009
106	0.800	-0.087	-0.118	-0.055	0.008
107	0.900	0.000	-0.028	0.032	0.008
108	0.950	0.133	0.106	0.159	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
625	0.78	140.1	2.47

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.087	1.070	1.101	0.004	69	0.000	1.089	1.073	1.105	0.005
2	0.010	0.083	0.040	0.118	0.010	70	0.010	-0.025	-0.067	0.016	0.011
3	0.020	-0.340	-0.376	-0.312	0.010	71	0.020	-0.222	-0.261	-0.185	0.010
4	0.030	-0.432	-0.462	-0.403	0.009	72	0.030	-0.328	-0.361	-0.293	0.009
5	0.040	-0.427	-0.455	-0.404	0.007	73	0.040	-0.363	-0.388	-0.334	0.008
6	0.050	-0.241	-0.266	-0.217	0.007	74	0.050	-0.428	-0.450	-0.403	0.007
7	0.075	-0.922	-0.940	-0.906	0.005	75	0.075	-1.094	-1.110	-1.075	0.005
8	0.100	-1.045	-1.067	-1.026	0.006	76	0.100	-1.007	-1.035	-0.933	0.011
9	0.150	-1.034	-1.062	-0.988	0.009	77	0.150	-0.691	-0.728	-0.656	0.009
10	0.200	-0.965	-0.998	-0.886	0.011	78	0.200	-0.637	-0.725	-0.568	0.018
11	0.250	-1.054	-1.088	-0.996	0.010	79	0.250	-0.426	-0.505	-0.366	0.019
12	0.300	-0.950	-0.998	-0.612	0.039	81	0.350	-0.275	-0.332	-0.223	0.014
13	0.350	-0.592	-1.027	-0.454	0.073	82	0.400	-0.236	-0.290	-0.189	0.013
14	0.400	-0.420	-0.523	-0.361	0.020	83	0.450	-0.302	-0.347	-0.264	0.011
15	0.450	-0.371	-0.433	-0.323	0.016	84	0.500	-0.172	-0.212	-0.136	0.010
16	0.500	-0.331	-0.385	-0.282	0.014	85	0.550	-0.127	-0.163	-0.091	0.010
62	0.550	-0.156	-0.204	-0.108	0.014	86	0.600	-0.200	-0.234	-0.164	0.010
18	0.600	-0.255	-0.293	-0.207	0.012	87	0.650	-0.051	-0.083	-0.016	0.009
63	0.650	-0.195	-0.223	-0.164	0.009	88	0.700	-0.157	-0.189	-0.123	0.009
20	0.700	-0.026	-0.063	0.015	0.012	89	0.750	-0.010	-0.038	0.025	0.008
21	0.750	-0.095	-0.133	-0.057	0.010	90	0.800	-0.063	-0.091	-0.030	0.008
22	0.800	-0.054	-0.089	-0.016	0.010	91	0.850	-0.042	-0.068	-0.010	0.008
66	0.850	0.133	0.103	0.165	0.009	92	0.900	0.103	0.077	0.131	0.007
25	0.950	0.265	0.238	0.295	0.008	93	0.950	0.243	0.216	0.280	0.008
26	1.000	0.260	0.239	0.284	0.006	94	1.000	0.035	0.016	0.054	0.006
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.632	0.595	0.665	0.010	95	0.010	0.579	0.547	0.611	0.010
28	0.020	0.359	0.318	0.396	0.011	96	0.020	0.164	0.126	0.199	0.010
						97	0.030	0.082	0.044	0.121	0.010
30	0.050	0.130	0.008	0.160	0.009	98	0.050	-0.040	-0.076	-0.004	0.010
31	0.100	-0.197	-0.236	-0.157	0.012	99	0.100	-0.234	-0.280	-0.183	0.011
32	0.200	-0.372	-0.432	-0.316	0.016	100	0.200	-0.459	-0.511	-0.408	0.013
33	0.300	-0.490	-0.551	-0.435	0.016	101	0.300	-0.252	-0.295	-0.205	0.012
34	0.400	-0.381	-0.430	-0.335	0.013	102	0.400	-0.204	-0.243	-0.161	0.011
35	0.500	-0.183	-0.222	-0.143	0.012	103	0.500	-0.116	-0.151	-0.081	0.010
36	0.600	-0.117	-0.151	-0.080	0.011	104	0.600	-0.202	-0.235	-0.170	0.009
37	0.700	-0.034	-0.064	0.004	0.009	105	0.700	-0.142	-0.173	-0.112	0.009
38	0.800	-0.099	-0.134	-0.069	0.008	106	0.800	-0.092	-0.123	-0.062	0.008
						107	0.900	-0.005	-0.032	0.026	0.008
						108	0.950	0.129	0.104	0.155	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
626	0.78	140.7	2.99

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.068	1.048	1.086	0.006
2	0.010	0.020	-0.024	0.065	0.011
3	0.020	-0.401	-0.440	-0.362	0.011
4	0.030	-0.485	-0.523	-0.450	0.009
5	0.040	-0.470	-0.499	-0.445	0.007
6	0.050	-0.277	-0.305	-0.257	0.007
7	0.075	-0.936	-0.951	-0.920	0.004
8	0.100	-1.072	-1.093	-1.054	0.005
9	0.150	-1.087	-1.115	-1.055	0.007
10	0.200	-1.021	-1.048	-0.984	0.007
11	0.250	-1.122	-1.153	-1.074	0.010
12	0.300	-1.001	-1.044	-0.734	0.016
13	0.350	-0.713	-1.116	-0.481	0.104
14	0.400	-0.446	-0.574	-0.374	0.025
15	0.450	-0.374	-0.436	-0.320	0.015
16	0.500	-0.325	-0.370	-0.278	0.013
62	0.550	-0.149	-0.192	-0.100	0.013
18	0.600	-0.246	-0.287	-0.198	0.012
63	0.650	-0.188	-0.219	-0.153	0.009
20	0.700	-0.020	-0.061	0.021	0.012
21	0.750	-0.090	-0.133	-0.048	0.010
22	0.800	-0.050	-0.082	-0.013	0.010
66	0.850	0.135	0.101	0.163	0.009
25	0.950	0.264	0.237	0.289	0.008
26	1.000	0.259	0.236	0.280	0.006

Lower surface at ETA = 0.60

27	0.010	0.675	0.636	0.711	0.009
28	0.020	0.408	0.366	0.451	0.010
30	0.050	0.170	0.138	0.202	0.010
31	0.100	-0.150	-0.189	-0.111	0.011
32	0.200	-0.332	-0.383	-0.277	0.014
33	0.300	-0.462	-0.510	-0.410	0.015
34	0.400	-0.365	-0.410	-0.320	0.013
35	0.500	-0.174	-0.213	-0.130	0.011
36	0.600	-0.112	-0.146	-0.074	0.010
37	0.700	-0.032	-0.062	0.006	0.009
38	0.800	-0.098	-0.128	-0.069	0.008

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.073	1.052	1.093	0.005
70	0.010	-0.079	-0.120	-0.044	0.011
71	0.020	-0.276	-0.312	-0.241	0.010
72	0.030	-0.375	-0.408	-0.341	0.009
73	0.040	-0.402	-0.429	-0.371	0.008
74	0.050	-0.458	-0.482	-0.434	0.007
75	0.075	-1.107	-1.124	-1.093	0.004
76	0.100	-1.040	-1.063	-1.009	0.007
77	0.150	-0.723	-0.795	-0.675	0.016
78	0.200	-0.687	-0.777	-0.583	0.031
79	0.250	-0.449	-0.548	-0.372	0.022
81	0.350	-0.283	-0.339	-0.236	0.015
82	0.400	-0.241	-0.287	-0.200	0.013
83	0.450	-0.306	-0.344	-0.264	0.011
84	0.500	-0.175	-0.211	-0.135	0.010
85	0.550	-0.129	-0.164	-0.089	0.010
86	0.600	-0.202	-0.236	-0.162	0.010
87	0.650	-0.054	-0.086	-0.018	0.009
88	0.700	-0.159	-0.188	-0.122	0.009
89	0.750	-0.013	-0.042	0.015	0.008
90	0.800	-0.066	-0.097	-0.036	0.008
91	0.850	-0.046	-0.072	-0.019	0.008
92	0.900	0.095	0.072	0.121	0.007
93	0.950	0.253	0.223	0.282	0.008
94	1.000	0.035	0.017	0.056	0.006

Lower surface at ETA = 0.95

95	0.010	0.616	0.579	0.649	0.010
96	0.020	0.206	0.170	0.242	0.011
97	0.030	0.069	0.035	0.103	0.010
98	0.050	-0.005	-0.035	0.029	0.010
99	0.100	-0.204	-0.243	-0.160	0.012
100	0.200	-0.441	-0.485	-0.395	0.013
101	0.300	-0.244	-0.290	-0.200	0.012
102	0.400	-0.201	-0.241	-0.163	0.011
103	0.500	-0.116	-0.150	-0.079	0.010
104	0.600	-0.203	-0.233	-0.165	0.009
105	0.700	-0.144	-0.174	-0.108	0.009
106	0.800	-0.096	-0.121	-0.066	0.008
107	0.900	-0.009	-0.032	0.018	0.008
108	0.950	0.124	0.104	0.148	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
627	0.78	140.5	3.48

The data was adjusted using wind-off zero 551

Channel	x/c	Upper surface at ETA = 0.60 Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Upper surface at ETA = 0.95 Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.051	1.036	1.069	0.005	69	0.000	1.061	1.043	1.082	0.005
2	0.010	-0.045	-0.084	-0.002	0.011	70	0.010	-0.134	-0.172	-0.094	0.011
3	0.020	-0.465	-0.504	-0.426	0.011	71	0.020	-0.331	-0.364	-0.291	0.010
4	0.030	-0.544	-0.581	-0.506	0.009	72	0.030	-0.426	-0.460	-0.387	0.009
5	0.040	-0.516	-0.543	-0.486	0.008	73	0.040	-0.443	-0.470	-0.408	0.008
6	0.050	-0.319	-0.348	-0.291	0.007	74	0.050	-0.491	-0.517	-0.461	0.007
7	0.075	-0.949	-0.962	-0.938	0.004	75	0.075	-1.122	-1.137	-1.108	0.004
8	0.100	-1.099	-1.113	-1.082	0.004	76	0.100	-1.069	-1.088	-1.043	0.006
9	0.150	-1.136	-1.158	-1.108	0.006	77	0.150	-0.789	-0.858	-0.719	0.021
10	0.200	-1.067	-1.090	-1.045	0.006	78	0.200	-0.742	-0.785	-0.640	0.020
11	0.250	-1.185	-1.209	-1.154	0.008	79	0.250	-0.480	-0.569	-0.396	0.025
12	0.300	-1.079	-1.113	-0.977	0.013	81	0.350	-0.293	-0.353	-0.238	0.015
13	0.350	-0.820	-1.140	-0.543	0.106	82	0.400	-0.249	-0.297	-0.198	0.013
14	0.400	-0.491	-0.617	-0.399	0.028	83	0.450	-0.312	-0.354	-0.264	0.012
15	0.450	-0.398	-0.478	-0.338	0.018	84	0.500	-0.180	-0.221	-0.138	0.011
16	0.500	-0.333	-0.392	-0.283	0.013	85	0.550	-0.134	-0.175	-0.095	0.011
62	0.550	-0.149	-0.194	-0.108	0.012	86	0.600	-0.207	-0.244	-0.166	0.010
18	0.600	-0.242	-0.281	-0.206	0.011	87	0.650	-0.058	-0.094	-0.026	0.009
63	0.650	-0.183	-0.212	-0.155	0.008	88	0.700	-0.163	-0.195	-0.128	0.009
20	0.700	-0.015	-0.054	0.022	0.011	89	0.750	-0.017	-0.048	0.010	0.008
21	0.750	-0.086	-0.123	-0.048	0.010	90	0.800	-0.071	-0.103	-0.043	0.008
22	0.800	-0.047	-0.082	-0.011	0.010	91	0.850	-0.053	-0.081	-0.028	0.008
66	0.850	0.137	0.108	0.167	0.009	92	0.900	0.086	0.060	0.111	0.007
25	0.950	0.263	0.237	0.290	0.008	93	0.950	0.240	0.206	0.279	0.009
26	1.000	0.257	0.237	0.278	0.006	94	1.000	0.033	0.011	0.051	0.006
		Lower surface at ETA = 0.60						Lower surface at ETA = 0.95			
27	0.010	0.720	0.688	0.752	0.009	95	0.010	0.656	0.623	0.694	0.010
28	0.020	0.457	0.422	0.495	0.011	96	0.020	0.247	0.215	0.285	0.010
						97	0.030	0.120	0.086	0.161	0.010
30	0.050	0.211	0.179	0.240	0.009	98	0.050	0.031	0.000	0.075	0.010
31	0.100	-0.107	-0.141	-0.069	0.011	99	0.100	-0.174	-0.213	-0.134	0.011
32	0.200	-0.294	-0.342	-0.244	0.014	100	0.200	-0.425	-0.467	-0.380	0.012
33	0.300	-0.437	-0.488	-0.380	0.014	101	0.300	-0.236	-0.283	-0.195	0.012
34	0.400	-0.351	-0.402	-0.300	0.012	102	0.400	-0.198	-0.252	-0.156	0.011
35	0.500	-0.166	-0.215	-0.126	0.011	103	0.500	-0.117	-0.164	-0.079	0.010
36	0.600	-0.108	-0.151	-0.076	0.010	104	0.600	-0.205	-0.249	-0.168	0.009
37	0.700	-0.031	-0.071	0.002	0.009	105	0.700	-0.148	-0.187	-0.115	0.009
38	0.800	-0.099	-0.136	-0.074	0.008	106	0.800	-0.101	-0.132	-0.075	0.008
						107	0.900	-0.014	-0.042	0.009	0.008
						108	0.950	0.120	0.096	0.142	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
628	0.78	140.7	3.95

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.034	1.010	1.053	0.005
2	0.010	-0.104	-0.142	-0.051	0.012
3	0.020	-0.525	-0.563	-0.474	0.011
4	0.030	-0.600	-0.638	-0.552	0.010
5	0.040	-0.561	-0.589	-0.523	0.008
6	0.050	-0.361	-0.389	-0.327	0.009
7	0.075	-0.953	-0.967	-0.941	0.004
8	0.100	-1.117	-1.134	-1.101	0.004
9	0.150	-1.171	-1.194	-1.153	0.006
10	0.200	-1.101	-1.121	-1.082	0.006
11	0.250	-1.233	-1.252	-1.210	0.007
12	0.300	-1.139	-1.166	-1.087	0.009
13	0.350	-0.877	-1.190	-0.627	0.106
14	0.400	-0.540	-0.640	-0.449	0.027
15	0.450	-0.442	-0.516	-0.370	0.022
16	0.500	-0.360	-0.422	-0.305	0.017
62	0.550	-0.163	-0.214	-0.119	0.013
18	0.600	-0.247	-0.284	-0.209	0.011
63	0.650	-0.183	-0.210	-0.157	0.008
20	0.700	-0.014	-0.050	0.020	0.010
21	0.750	-0.083	-0.116	-0.046	0.010
22	0.800	-0.043	-0.075	-0.007	0.010
66	0.850	0.138	0.110	0.170	0.008
25	0.950	0.261	0.235	0.289	0.008
26	1.000	0.253	0.232	0.277	0.006

Lower surface at ETA = 0.60

27	0.010	0.759	0.729	0.792	0.009
28	0.020	0.500	0.462	0.539	0.010
30	0.050	0.248	0.212	0.280	0.010
31	0.100	-0.066	-0.105	-0.031	0.010
32	0.200	-0.262	-0.314	-0.218	0.012
33	0.300	-0.415	-0.464	-0.367	0.013
34	0.400	-0.338	-0.374	-0.299	0.012
35	0.500	-0.159	-0.193	-0.124	0.010
36	0.600	-0.105	-0.139	-0.068	0.010
37	0.700	-0.031	-0.065	0.004	0.009
38	0.800	-0.100	-0.133	-0.069	0.008

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.047	1.027	1.065	0.005
70	0.010	-0.184	-0.219	-0.143	0.011
71	0.020	-0.383	-0.419	-0.339	0.011
72	0.030	-0.475	-0.510	-0.435	0.010
73	0.040	-0.482	-0.509	-0.450	0.008
74	0.050	-0.524	-0.549	-0.496	0.008
75	0.075	-1.129	-1.141	-1.115	0.004
76	0.100	-1.088	-1.104	-1.070	0.005
77	0.150	-0.852	-0.912	-0.782	0.019
78	0.200	-0.755	-0.804	-0.697	0.011
79	0.250	-0.514	-0.604	-0.429	0.025
81	0.350	-0.305	-0.362	-0.246	0.016
82	0.400	-0.257	-0.302	-0.207	0.014
83	0.450	-0.317	-0.357	-0.276	0.012
84	0.500	-0.185	-0.220	-0.148	0.011
85	0.550	-0.140	-0.172	-0.101	0.010
86	0.600	-0.211	-0.244	-0.181	0.009
87	0.650	-0.063	-0.097	-0.032	0.009
88	0.700	-0.167	-0.200	-0.139	0.009
89	0.750	-0.022	-0.055	0.004	0.008
90	0.800	-0.078	-0.112	-0.051	0.008
91	0.850	-0.062	-0.091	-0.037	0.008
92	0.900	0.076	0.046	0.101	0.007
93	0.950	0.228	0.196	0.253	0.007
94	1.000	0.032	0.012	0.048	0.006

Lower surface at ETA = 0.95

95	0.010	0.691	0.660	0.721	0.009
96	0.020	0.285	0.250	0.319	0.010
97	0.030	0.166	0.132	0.203	0.010
98	0.050	0.063	0.029	0.099	0.010
99	0.100	-0.148	-0.185	-0.106	0.011
100	0.200	-0.410	-0.451	-0.365	0.012
101	0.300	-0.230	-0.266	-0.189	0.012
102	0.400	-0.197	-0.230	-0.160	0.011
103	0.500	-0.118	-0.150	-0.085	0.010
104	0.600	-0.207	-0.241	-0.177	0.009
105	0.700	-0.152	-0.186	-0.123	0.009
106	0.800	-0.106	-0.133	-0.076	0.008
107	0.900	-0.018	-0.050	0.008	0.007
108	0.950	0.116	0.086	0.139	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
629	0.78	140.6	4.46

The data was adjusted using wind-off zero 551

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
Upper surface at ETA = 0.60					
1	0.000	1.012	0.991	1.032	0.006
2	0.010	-0.170	-0.218	-0.130	0.011
3	0.020	-0.594	-0.641	-0.554	0.012
4	0.030	-0.669	-0.718	-0.629	0.012
5	0.040	-0.618	-0.656	-0.582	0.010
6	0.050	-0.414	-0.456	-0.379	0.010
7	0.075	-0.959	-0.976	-0.947	0.004
8	0.100	-1.139	-1.155	-1.122	0.004
9	0.150	-1.212	-1.231	-1.188	0.005
10	0.200	-1.135	-1.151	-1.118	0.005
11	0.250	-1.273	-1.297	-1.251	0.006
12	0.300	-1.188	-1.214	-0.886	0.011
13	0.350	-0.815	-1.177	-0.587	0.089
14	0.400	-0.569	-0.649	-0.461	0.024
15	0.450	-0.481	-0.548	-0.396	0.023
16	0.500	-0.395	-0.461	-0.327	0.021
62	0.550	-0.190	-0.248	-0.137	0.017
18	0.600	-0.264	-0.311	-0.223	0.012
63	0.650	-0.193	-0.222	-0.167	0.008
20	0.700	-0.022	-0.054	0.012	0.011
21	0.750	-0.086	-0.125	-0.052	0.009
22	0.800	-0.045	-0.071	-0.013	0.009
66	0.850	0.134	0.106	0.167	0.008
25	0.950	0.254	0.231	0.283	0.007
26	1.000	0.245	0.221	0.270	0.006
Lower surface at ETA = 0.60					
27	0.010	0.798	0.764	0.827	0.008
28	0.020	0.544	0.501	0.576	0.010
30	0.050	0.286	0.247	0.321	0.009
31	0.100	-0.027	-0.068	0.010	0.009
32	0.200	-0.229	-0.273	-0.190	0.012
33	0.300	-0.392	-0.434	-0.344	0.013
34	0.400	-0.325	-0.366	-0.278	0.012
35	0.500	-0.154	-0.187	-0.116	0.010
36	0.600	-0.104	-0.137	-0.070	0.010
37	0.700	-0.034	-0.065	0.000	0.009
38	0.800	-0.105	-0.138	-0.073	0.008

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
Upper surface at ETA = 0.95					
69	0.000	1.030	1.011	1.051	0.005
70	0.010	-0.241	-0.283	-0.198	0.011
71	0.020	-0.441	-0.484	-0.400	0.011
72	0.030	-0.532	-0.575	-0.496	0.011
73	0.040	-0.528	-0.562	-0.497	0.009
74	0.050	-0.564	-0.597	-0.533	0.009
75	0.075	-1.139	-1.151	-1.126	0.003
76	0.100	-1.110	-1.124	-1.092	0.005
77	0.150	-0.904	-0.980	-0.841	0.019
78	0.200	-0.775	-0.829	-0.720	0.016
79	0.250	-0.540	-0.630	-0.433	0.029
81	0.350	-0.313	-0.384	-0.256	0.017
82	0.400	-0.262	-0.315	-0.213	0.014
83	0.450	-0.322	-0.365	-0.277	0.012
84	0.500	-0.191	-0.229	-0.150	0.011
85	0.550	-0.145	-0.180	-0.108	0.011
86	0.600	-0.216	-0.252	-0.178	0.010
87	0.650	-0.067	-0.101	-0.032	0.009
88	0.700	-0.171	-0.202	-0.137	0.009
89	0.750	-0.028	-0.056	0.001	0.008
90	0.800	-0.086	-0.117	-0.057	0.008
91	0.850	-0.071	-0.097	-0.043	0.008
92	0.900	0.066	0.041	0.089	0.008
93	0.950	0.195	0.168	0.219	0.007
94	1.000	0.029	0.008	0.048	0.006
Lower surface at ETA = 0.95					
95	0.010	0.727	0.693	0.759	0.009
96	0.020	0.323	0.289	0.360	0.010
97	0.030	0.215	0.180	0.248	0.010
98	0.050	0.098	0.067	0.130	0.010
99	0.100	-0.120	-0.155	-0.083	0.010
100	0.200	-0.394	-0.434	-0.352	0.012
101	0.300	-0.222	-0.262	-0.184	0.012
102	0.400	-0.194	-0.232	-0.152	0.011
103	0.500	-0.119	-0.154	-0.079	0.010
104	0.600	-0.211	-0.245	-0.175	0.009
105	0.700	-0.156	-0.190	-0.122	0.009
106	0.800	-0.111	-0.142	-0.080	0.008
107	0.900	-0.023	-0.050	0.002	0.008
108	0.950	0.111	0.088	0.132	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
630	0.78	141.2	4.96

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.987	0.964	1.010	0.006
2	0.010	-0.229	-0.274	-0.185	0.012
3	0.020	-0.653	-0.704	-0.610	0.012
4	0.030	-0.735	-0.792	-0.691	0.014
5	0.040	-0.675	-0.733	-0.634	0.012
6	0.050	-0.470	-0.524	-0.428	0.012
7	0.075	-0.958	-0.972	-0.944	0.004
8	0.100	-1.150	-1.161	-1.136	0.004
9	0.150	-1.239	-1.256	-1.218	0.006
10	0.200	-1.158	-1.174	-1.138	0.005
11	0.250	-1.302	-1.321	-1.281	0.006
12	0.300	-1.159	-1.237	-0.651	0.087
13	0.350	-0.716	-1.073	-0.585	0.055
14	0.400	-0.578	-0.661	-0.478	0.025
15	0.450	-0.505	-0.582	-0.404	0.025
16	0.500	-0.428	-0.514	-0.333	0.024
62	0.550	-0.227	-0.311	-0.139	0.022
18	0.600	-0.296	-0.372	-0.230	0.018
63	0.650	-0.221	-0.283	-0.178	0.012
20	0.700	-0.048	-0.110	0.002	0.014
21	0.750	-0.104	-0.158	-0.061	0.013
22	0.800	-0.062	-0.121	-0.018	0.012
66	0.850	0.117	0.069	0.153	0.011
25	0.950	0.234	0.169	0.269	0.011
26	1.000	0.222	0.161	0.248	0.011

Lower surface at ETA = 0.60

27	0.010	0.830	0.801	0.859	0.008
28	0.020	0.582	0.548	0.614	0.010
30	0.050	0.321	0.288	0.349	0.009
31	0.100	0.008	-0.028	0.042	0.010
32	0.200	-0.202	-0.246	-0.162	0.011
33	0.300	-0.374	-0.421	-0.322	0.012
34	0.400	-0.316	-0.357	-0.266	0.012
35	0.500	-0.153	-0.190	-0.116	0.010
36	0.600	-0.108	-0.148	-0.075	0.010
37	0.700	-0.042	-0.081	-0.009	0.009
38	0.800	-0.116	-0.153	-0.082	0.010

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.011	0.991	1.033	0.006
70	0.010	-0.292	-0.330	-0.251	0.012
71	0.020	-0.494	-0.530	-0.457	0.011
72	0.030	-0.586	-0.623	-0.543	0.012
73	0.040	-0.574	-0.615	-0.539	0.011
74	0.050	-0.604	-0.641	-0.569	0.010
75	0.075	-1.139	-1.149	-1.126	0.004
76	0.100	-1.120	-1.134	-1.104	0.004
77	0.150	-0.952	-1.040	-0.871	0.022
78	0.200	-0.799	-0.872	-0.721	0.018
79	0.250	-0.569	-0.692	-0.455	0.036
81	0.350	-0.316	-0.388	-0.253	0.019
82	0.400	-0.264	-0.314	-0.208	0.015
83	0.450	-0.324	-0.366	-0.277	0.013
84	0.500	-0.194	-0.234	-0.153	0.011
85	0.550	-0.148	-0.187	-0.107	0.011
86	0.600	-0.218	-0.255	-0.181	0.010
87	0.650	-0.071	-0.105	-0.035	0.009
88	0.700	-0.175	-0.209	-0.142	0.009
89	0.750	-0.035	-0.066	-0.004	0.008
90	0.800	-0.093	-0.125	-0.061	0.008
91	0.850	-0.080	-0.107	-0.051	0.008
92	0.900	0.054	0.030	0.082	0.008
93	0.950	0.183	0.156	0.217	0.007
94	1.000	0.025	0.004	0.048	0.005

Lower surface at ETA = 0.95

95	0.010	0.758	0.726	0.785	0.009
96	0.020	0.358	0.323	0.389	0.009
97	0.030	0.257	0.225	0.288	0.009
98	0.050	0.129	0.096	0.156	0.009
99	0.100	-0.095	-0.131	-0.059	0.011
100	0.200	-0.379	-0.420	-0.334	0.011
101	0.300	-0.217	-0.259	-0.168	0.011
102	0.400	-0.193	-0.229	-0.147	0.011
103	0.500	-0.121	-0.155	-0.082	0.010
104	0.600	-0.214	-0.248	-0.180	0.009
105	0.700	-0.160	-0.191	-0.129	0.009
106	0.800	-0.115	-0.145	-0.087	0.008
107	0.900	-0.028	-0.055	-0.004	0.007
108	0.950	0.106	0.082	0.129	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
631	0.78	141.1	5.99

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.934	0.906	0.959	0.007	69	0.000	0.971	0.949	0.992	0.006
2	0.010	-0.351	-0.393	-0.311	0.012	70	0.010	-0.396	-0.438	-0.358	0.011
3	0.020	-0.779	-0.821	-0.740	0.011	71	0.020	-0.603	-0.639	-0.565	0.011
4	0.030	-0.882	-0.924	-0.837	0.012	72	0.030	-0.707	-0.746	-0.666	0.012
5	0.040	-0.877	-0.939	-0.796	0.021	73	0.040	-0.709	-0.769	-0.656	0.016
6	0.050	-0.660	-0.719	-0.581	0.020	74	0.050	-0.726	-0.788	-0.673	0.016
7	0.075	-0.963	-1.000	-0.950	0.006	75	0.075	-1.137	-1.153	-1.124	0.004
8	0.100	-1.162	-1.172	-1.149	0.003	76	0.100	-1.135	-1.149	-1.123	0.003
9	0.150	-1.292	-1.309	-1.271	0.004	77	0.150	-1.046	-1.123	-0.938	0.026
10	0.200	-1.208	-1.235	-1.067	0.006	78	0.200	-0.847	-0.924	-0.748	0.023
11	0.250	-1.278	-1.366	-0.715	0.102	79	0.250	-0.604	-0.725	-0.446	0.045
12	0.300	-0.663	-1.203	-0.513	0.089	81	0.350	-0.314	-0.395	-0.253	0.019
13	0.350	-0.649	-0.753	-0.540	0.026	82	0.400	-0.264	-0.321	-0.214	0.015
14	0.400	-0.583	-0.670	-0.466	0.025	83	0.450	-0.328	-0.373	-0.287	0.012
15	0.450	-0.542	-0.624	-0.439	0.025	84	0.500	-0.201	-0.239	-0.164	0.011
16	0.500	-0.488	-0.569	-0.395	0.027	85	0.550	-0.157	-0.195	-0.120	0.010
62	0.550	-0.304	-0.389	-0.191	0.028	86	0.600	-0.229	-0.260	-0.192	0.009
18	0.600	-0.379	-0.466	-0.264	0.029	87	0.650	-0.083	-0.113	-0.047	0.009
63	0.650	-0.304	-0.379	-0.218	0.023	88	0.700	-0.190	-0.218	-0.158	0.009
20	0.700	-0.130	-0.231	-0.017	0.028	89	0.750	-0.054	-0.082	-0.024	0.008
21	0.750	-0.179	-0.315	-0.083	0.028	90	0.800	-0.115	-0.141	-0.081	0.008
22	0.800	-0.134	-0.243	-0.042	0.027	91	0.850	-0.103	-0.129	-0.074	0.008
66	0.850	0.046	-0.059	0.123	0.025	92	0.900	0.028	0.002	0.054	0.008
25	0.950	0.152	0.056	0.228	0.024	93	0.950	0.151	0.125	0.182	0.008
26	1.000	0.141	0.059	0.213	0.023	94	1.000	0.015	-0.004	0.035	0.005
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.893	0.865	0.921	0.008	95	0.010	0.817	0.787	0.841	0.008
28	0.020	0.655	0.621	0.686	0.009	96	0.020	0.423	0.392	0.453	0.009
						97	0.030	0.332	0.299	0.365	0.009
30	0.050	0.387	0.352	0.419	0.009	98	0.050	0.188	0.156	0.217	0.009
31	0.100	0.080	0.040	0.116	0.010	99	0.100	-0.042	-0.077	-0.007	0.010
32	0.200	-0.150	-0.190	-0.115	0.011	100	0.200	-0.349	-0.388	-0.310	0.011
33	0.300	-0.338	-0.381	-0.305	0.011	101	0.300	-0.203	-0.248	-0.162	0.011
34	0.400	-0.298	-0.337	-0.261	0.011	102	0.400	-0.189	-0.226	-0.149	0.011
35	0.500	-0.149	-0.182	-0.108	0.010	103	0.500	-0.124	-0.155	-0.088	0.010
36	0.600	-0.115	-0.152	-0.075	0.011	104	0.600	-0.221	-0.249	-0.187	0.009
37	0.700	-0.059	-0.093	-0.025	0.011	105	0.700	-0.171	-0.198	-0.137	0.009
38	0.800	-0.145	-0.181	-0.108	0.011	106	0.800	-0.127	-0.153	-0.096	0.008
						107	0.900	-0.040	-0.065	-0.013	0.007
						108	0.950	0.093	0.072	0.118	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
632	0.77	138.1	-0.95

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.106	1.090	1.122	0.005
2	0.010	0.493	0.456	0.533	0.011
3	0.020	0.052	0.012	0.095	0.011
4	0.030	-0.078	-0.117	-0.035	0.011
5	0.040	-0.139	-0.173	-0.095	0.010
6	0.050	-0.006	-0.067	0.026	0.008
7	0.075	-0.413	-0.477	-0.343	0.017
8	0.100	-0.479	-0.518	-0.432	0.012
9	0.150	-0.573	-0.635	-0.520	0.016
10	0.200	-0.502	-0.580	-0.437	0.019
11	0.250	-0.568	-0.642	-0.505	0.018
12	0.300	-0.424	-0.490	-0.363	0.017
13	0.350	-0.469	-0.515	-0.422	0.014
14	0.400	-0.403	-0.449	-0.359	0.013
15	0.450	-0.367	-0.409	-0.327	0.012
16	0.500	-0.330	-0.369	-0.295	0.011
62	0.550	-0.155	-0.192	-0.121	0.011
18	0.600	-0.257	-0.293	-0.224	0.010
63	0.650	-0.201	-0.225	-0.175	0.008
20	0.700	-0.035	-0.069	0.002	0.011
21	0.750	-0.107	-0.143	-0.068	0.010
22	0.800	-0.068	-0.104	-0.032	0.010
66	0.850	0.117	0.091	0.149	0.008
25	0.950	0.252	0.219	0.279	0.007
26	1.000	0.257	0.238	0.279	0.006

Lower surface at ETA = 0.60

27	0.010	0.232	0.195	0.269	0.010
28	0.020	-0.058	-0.101	-0.017	0.012
30	0.050	-0.171	-0.197	-0.141	0.008
31	0.100	-0.700	-0.837	-0.507	0.064
32	0.200	-0.723	-0.768	-0.595	0.020
33	0.300	-0.624	-0.783	-0.533	0.030
34	0.400	-0.451	-0.504	-0.388	0.015
35	0.500	-0.222	-0.264	-0.180	0.012
36	0.600	-0.137	-0.177	-0.102	0.010
37	0.700	-0.039	-0.076	-0.005	0.009
38	0.800	-0.095	-0.122	-0.054	0.008

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.111	1.094	1.127	0.005
70	0.010	0.325	0.284	0.364	0.011
71	0.020	0.124	0.086	0.159	0.010
72	0.030	-0.017	-0.053	0.016	0.010
73	0.040	-0.101	-0.134	-0.066	0.010
74	0.050	-0.231	-0.260	-0.200	0.009
75	0.075	-0.500	-0.551	-0.444	0.015
76	0.100	-0.472	-0.512	-0.426	0.012
77	0.150	-0.504	-0.545	-0.457	0.012
78	0.200	-0.470	-0.519	-0.426	0.013
79	0.250	-0.310	-0.355	-0.265	0.012
81	0.350	-0.222	-0.259	-0.186	0.011
82	0.400	-0.202	-0.238	-0.168	0.010
83	0.450	-0.281	-0.314	-0.249	0.010
84	0.500	-0.158	-0.192	-0.128	0.009
85	0.550	-0.119	-0.151	-0.091	0.009
86	0.600	-0.198	-0.230	-0.165	0.009
87	0.650	-0.051	-0.081	-0.020	0.009
88	0.700	-0.161	-0.190	-0.128	0.009
89	0.750	-0.016	-0.046	0.011	0.008
90	0.800	-0.071	-0.101	-0.041	0.008
91	0.850	-0.048	-0.076	-0.020	0.008
92	0.900	0.103	0.076	0.130	0.008
93	0.950	0.230	0.202	0.254	0.007
94	1.000	0.026	0.006	0.049	0.006

Lower surface at ETA = 0.95

95	0.010	0.235	0.192	0.271	0.011
96	0.020	-0.189	-0.230	-0.152	0.011
97	0.030	-0.295	-0.336	-0.258	0.011
98	0.050	-0.309	-0.340	-0.279	0.009
99	0.100	-0.434	-0.471	-0.394	0.011
100	0.200	-0.574	-0.629	-0.522	0.015
101	0.300	-0.299	-0.351	-0.254	0.013
102	0.400	-0.221	-0.259	-0.183	0.011
103	0.500	-0.115	-0.147	-0.084	0.010
104	0.600	-0.189	-0.220	-0.160	0.009
105	0.700	-0.121	-0.151	-0.092	0.008
106	0.800	-0.065	-0.092	-0.034	0.008
107	0.900	0.026	-0.001	0.053	0.008
108	0.950	0.150	0.126	0.174	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
633	0.77	138.4	0.02

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.109	1.092	1.127	0.005	69	0.000	1.111	1.095	1.126	0.005
2	0.010	0.375	0.332	0.412	0.011	70	0.010	0.226	0.190	0.261	0.012
3	0.020	-0.067	-0.111	-0.034	0.011	71	0.020	0.027	-0.009	0.062	0.010
4	0.030	-0.190	-0.229	-0.155	0.010	72	0.030	-0.108	-0.140	-0.075	0.010
5	0.040	-0.238	-0.268	-0.204	0.009	73	0.040	-0.181	-0.210	-0.146	0.010
6	0.050	-0.090	-0.132	-0.062	0.010	74	0.050	-0.296	-0.322	-0.268	0.009
7	0.075	-0.606	-0.696	-0.531	0.026	75	0.075	-0.649	-0.763	-0.568	0.031
8	0.100	-0.580	-0.611	-0.540	0.011	76	0.100	-0.532	-0.569	-0.492	0.012
9	0.150	-0.684	-0.735	-0.617	0.019	77	0.150	-0.554	-0.603	-0.507	0.014
10	0.200	-0.605	-0.694	-0.529	0.028	78	0.200	-0.504	-0.559	-0.464	0.014
11	0.250	-0.639	-0.779	-0.564	0.027	79	0.250	-0.334	-0.387	-0.293	0.013
12	0.300	-0.468	-0.558	-0.400	0.021	81	0.350	-0.233	-0.272	-0.196	0.011
13	0.350	-0.498	-0.561	-0.440	0.016	82	0.400	-0.208	-0.243	-0.173	0.011
14	0.400	-0.424	-0.477	-0.368	0.014	83	0.450	-0.285	-0.319	-0.250	0.010
15	0.450	-0.383	-0.427	-0.337	0.012	84	0.500	-0.159	-0.191	-0.126	0.010
16	0.500	-0.342	-0.384	-0.300	0.011	85	0.550	-0.118	-0.152	-0.083	0.010
62	0.550	-0.163	-0.200	-0.123	0.011	86	0.600	-0.195	-0.226	-0.162	0.009
18	0.600	-0.263	-0.297	-0.227	0.010	87	0.650	-0.047	-0.077	-0.016	0.009
63	0.650	-0.205	-0.233	-0.176	0.008	88	0.700	-0.156	-0.185	-0.126	0.009
20	0.700	-0.036	-0.072	0.002	0.011	89	0.750	-0.008	-0.036	0.020	0.008
21	0.750	-0.106	-0.140	-0.070	0.010	90	0.800	-0.062	-0.091	-0.034	0.008
22	0.800	-0.066	-0.101	-0.025	0.010	91	0.850	-0.039	-0.064	-0.012	0.008
66	0.850	0.121	0.091	0.152	0.008	92	0.900	0.112	0.088	0.138	0.008
25	0.950	0.255	0.232	0.287	0.008	93	0.950	0.247	0.211	0.283	0.009
26	1.000	0.256	0.236	0.278	0.006	94	1.000	0.024	0.004	0.049	0.005
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.353	0.318	0.390	0.010	95	0.010	0.338	0.298	0.371	0.011
28	0.020	0.066	0.032	0.109	0.011	96	0.020	-0.086	-0.125	-0.050	0.011
						97	0.030	-0.183	-0.223	-0.146	0.011
30	0.050	-0.098	-0.123	-0.063	0.009	98	0.050	-0.233	-0.264	-0.201	0.009
31	0.100	-0.448	-0.478	-0.402	0.010	99	0.100	-0.380	-0.419	-0.328	0.012
32	0.200	-0.586	-0.688	-0.496	0.028	100	0.200	-0.535	-0.584	-0.487	0.014
33	0.300	-0.595	-0.677	-0.531	0.020	101	0.300	-0.282	-0.326	-0.236	0.012
34	0.400	-0.435	-0.479	-0.385	0.014	102	0.400	-0.213	-0.251	-0.176	0.011
35	0.500	-0.212	-0.253	-0.167	0.011	103	0.500	-0.112	-0.145	-0.076	0.010
36	0.600	-0.133	-0.168	-0.098	0.010	104	0.600	-0.190	-0.222	-0.157	0.009
37	0.700	-0.038	-0.074	-0.007	0.009	105	0.700	-0.124	-0.153	-0.094	0.008
38	0.800	-0.098	-0.131	-0.068	0.008	106	0.800	-0.070	-0.098	-0.041	0.008
						107	0.900	0.021	-0.005	0.053	0.008
						108	0.950	0.147	0.124	0.170	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
634	0.77	139.1	1.04

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.105	1.082	1.120	0.005
2	0.010	0.249	0.213	0.282	0.010
3	0.020	-0.190	-0.223	-0.158	0.010
4	0.030	-0.301	-0.331	-0.272	0.009
5	0.040	-0.330	-0.355	-0.303	0.007
6	0.050	-0.166	-0.188	-0.144	0.007
7	0.075	-0.889	-0.910	-0.849	0.008
8	0.100	-0.772	-0.944	-0.622	0.074
9	0.150	-0.769	-0.794	-0.729	0.008
10	0.200	-0.753	-0.792	-0.612	0.018
11	0.250	-0.786	-0.922	-0.605	0.069
12	0.300	-0.494	-0.689	-0.403	0.035
13	0.350	-0.517	-0.603	-0.450	0.020
14	0.400	-0.439	-0.504	-0.381	0.016
15	0.450	-0.394	-0.448	-0.347	0.013
16	0.500	-0.350	-0.401	-0.306	0.012
62	0.550	-0.169	-0.215	-0.127	0.012
18	0.600	-0.267	-0.307	-0.226	0.011
63	0.650	-0.207	-0.237	-0.177	0.008
20	0.700	-0.036	-0.073	0.004	0.011
21	0.750	-0.105	-0.140	-0.069	0.010
22	0.800	-0.064	-0.107	-0.027	0.010
66	0.850	0.125	0.094	0.157	0.009
25	0.950	0.260	0.229	0.288	0.008
26	1.000	0.257	0.234	0.281	0.006

Lower surface at ETA = 0.60

27	0.010	0.474	0.445	0.520	0.010
28	0.020	0.191	0.156	0.240	0.011
30	0.050	-0.005	-0.041	0.036	0.010
31	0.100	-0.342	-0.380	-0.302	0.012
32	0.200	-0.482	-0.565	-0.417	0.019
33	0.300	-0.549	-0.630	-0.495	0.017
34	0.400	-0.413	-0.475	-0.375	0.013
35	0.500	-0.200	-0.252	-0.156	0.012
36	0.600	-0.126	-0.169	-0.086	0.011
37	0.700	-0.037	-0.070	0.006	0.009
38	0.800	-0.101	-0.135	-0.070	0.008

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.105	1.083	1.121	0.005
70	0.010	0.118	0.082	0.160	0.011
71	0.020	-0.079	-0.116	-0.040	0.011
72	0.030	-0.202	-0.235	-0.164	0.010
73	0.040	-0.262	-0.294	-0.227	0.009
74	0.050	-0.359	-0.385	-0.325	0.008
75	0.075	-0.959	-1.042	-0.800	0.031
76	0.100	-0.575	-0.604	-0.540	0.008
77	0.150	-0.611	-0.660	-0.558	0.014
78	0.200	-0.545	-0.610	-0.491	0.016
79	0.250	-0.361	-0.425	-0.312	0.015
81	0.350	-0.247	-0.297	-0.207	0.012
82	0.400	-0.217	-0.258	-0.178	0.011
83	0.450	-0.290	-0.327	-0.255	0.010
84	0.500	-0.162	-0.196	-0.129	0.010
85	0.550	-0.119	-0.155	-0.087	0.010
86	0.600	-0.195	-0.231	-0.163	0.009
87	0.650	-0.045	-0.080	-0.016	0.009
88	0.700	-0.153	-0.189	-0.124	0.009
89	0.750	-0.005	-0.038	0.022	0.008
90	0.800	-0.058	-0.094	-0.032	0.008
91	0.850	-0.035	-0.069	-0.009	0.008
92	0.900	0.115	0.085	0.139	0.008
93	0.950	0.244	0.214	0.268	0.007
94	1.000	0.028	0.004	0.048	0.006

Lower surface at ETA = 0.95

95	0.010	0.440	0.403	0.476	0.010
96	0.020	0.021	-0.020	0.059	0.011
97	0.030	-0.076	-0.114	-0.037	0.010
98	0.050	-0.152	-0.186	-0.117	0.010
99	0.100	-0.318	-0.362	-0.275	0.012
100	0.200	-0.499	-0.552	-0.451	0.013
101	0.300	-0.266	-0.324	-0.225	0.012
102	0.400	-0.207	-0.257	-0.173	0.011
103	0.500	-0.111	-0.156	-0.080	0.010
104	0.600	-0.194	-0.232	-0.163	0.009
105	0.700	-0.130	-0.164	-0.102	0.009
106	0.800	-0.079	-0.111	-0.054	0.008
107	0.900	0.010	-0.021	0.040	0.008
108	0.950	0.140	0.112	0.164	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
635	0.77	139.0	2.02

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.092	1.073	1.106	0.004	69	0.000	1.093	1.077	1.108	0.005
2	0.010	0.118	0.084	0.155	0.010	70	0.010	0.008	-0.030	0.046	0.010
3	0.020	-0.312	-0.344	-0.277	0.010	71	0.020	-0.190	-0.226	-0.153	0.010
4	0.030	-0.409	-0.439	-0.380	0.009	72	0.030	-0.300	-0.332	-0.265	0.009
5	0.040	-0.416	-0.439	-0.392	0.007	73	0.040	-0.343	-0.372	-0.312	0.008
6	0.050	-0.233	-0.256	-0.211	0.007	74	0.050	-0.421	-0.444	-0.393	0.007
7	0.075	-0.943	-0.958	-0.925	0.005	75	0.075	-1.104	-1.127	-1.066	0.007
8	0.100	-1.045	-1.067	-1.021	0.007	76	0.100	-0.825	-0.973	-0.617	0.063
9	0.150	-0.984	-1.027	-0.914	0.014	77	0.150	-0.659	-0.707	-0.610	0.014
10	0.200	-0.865	-0.906	-0.766	0.015	78	0.200	-0.585	-0.645	-0.527	0.017
11	0.250	-0.957	-1.020	-0.686	0.045	79	0.250	-0.389	-0.451	-0.334	0.016
12	0.300	-0.543	-0.905	-0.417	0.078	81	0.350	-0.258	-0.297	-0.215	0.013
13	0.350	-0.512	-0.598	-0.448	0.023	82	0.400	-0.225	-0.264	-0.185	0.012
14	0.400	-0.438	-0.500	-0.381	0.018	83	0.450	-0.296	-0.331	-0.259	0.011
15	0.450	-0.396	-0.445	-0.346	0.015	84	0.500	-0.166	-0.202	-0.130	0.010
16	0.500	-0.352	-0.396	-0.303	0.013	85	0.550	-0.122	-0.155	-0.087	0.010
62	0.550	-0.170	-0.207	-0.122	0.012	86	0.600	-0.197	-0.229	-0.163	0.009
18	0.600	-0.267	-0.302	-0.224	0.011	87	0.650	-0.046	-0.080	-0.013	0.009
63	0.650	-0.206	-0.237	-0.176	0.008	88	0.700	-0.155	-0.184	-0.121	0.009
20	0.700	-0.033	-0.066	0.007	0.011	89	0.750	-0.006	-0.036	0.027	0.008
21	0.750	-0.102	-0.136	-0.058	0.010	90	0.800	-0.061	-0.090	-0.032	0.008
22	0.800	-0.060	-0.094	-0.027	0.010	91	0.850	-0.039	-0.069	-0.010	0.007
66	0.850	0.130	0.104	0.161	0.008	92	0.900	0.109	0.083	0.136	0.007
25	0.950	0.265	0.238	0.291	0.008	93	0.950	0.242	0.214	0.268	0.007
26	1.000	0.259	0.240	0.283	0.006	94	1.000	0.032	0.011	0.052	0.006
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.585	0.552	0.614	0.010	95	0.010	0.536	0.496	0.571	0.010
28	0.020	0.307	0.271	0.343	0.011	96	0.020	0.118	0.073	0.155	0.011
						97	0.030	0.027	-0.016	0.067	0.011
30	0.050	0.086	0.047	0.118	0.010	98	0.050	-0.075	-0.114	-0.039	0.010
31	0.100	-0.238	-0.282	-0.199	0.012	99	0.100	-0.256	-0.299	-0.210	0.012
32	0.200	-0.396	-0.456	-0.346	0.016	100	0.200	-0.465	-0.506	-0.422	0.013
33	0.300	-0.501	-0.555	-0.449	0.015	101	0.300	-0.250	-0.286	-0.212	0.012
34	0.400	-0.387	-0.431	-0.342	0.013	102	0.400	-0.200	-0.234	-0.162	0.011
35	0.500	-0.184	-0.222	-0.144	0.011	103	0.500	-0.109	-0.138	-0.074	0.010
36	0.600	-0.118	-0.150	-0.084	0.010	104	0.600	-0.198	-0.228	-0.166	0.009
37	0.700	-0.033	-0.064	-0.002	0.009	105	0.700	-0.137	-0.165	-0.105	0.008
38	0.800	-0.101	-0.128	-0.072	0.008	106	0.800	-0.089	-0.115	-0.059	0.008
						107	0.900	-0.001	-0.024	0.027	0.007
						108	0.950	0.132	0.110	0.155	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
636	0.77	139.1	3.02

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.062	1.044	1.080	0.005
2	0.010	-0.010	-0.049	0.026	0.011
3	0.020	-0.436	-0.475	-0.402	0.010
4	0.030	-0.519	-0.557	-0.490	0.009
5	0.040	-0.503	-0.530	-0.479	0.007
6	0.050	-0.307	-0.335	-0.284	0.007
7	0.075	-0.975	-0.993	-0.962	0.005
8	0.100	-1.113	-1.137	-1.098	0.005
9	0.150	-1.122	-1.152	-1.094	0.008
10	0.200	-1.050	-1.075	-1.018	0.008
11	0.250	-1.137	-1.180	-1.049	0.014
12	0.300	-0.917	-1.047	-0.519	0.092
13	0.350	-0.544	-0.777	-0.452	0.037
14	0.400	-0.423	-0.493	-0.355	0.017
15	0.450	-0.377	-0.432	-0.321	0.014
16	0.500	-0.336	-0.388	-0.288	0.013
62	0.550	-0.159	-0.209	-0.112	0.013
18	0.600	-0.258	-0.302	-0.216	0.011
63	0.650	-0.198	-0.225	-0.167	0.009
20	0.700	-0.026	-0.065	0.014	0.012
21	0.750	-0.097	-0.134	-0.058	0.010
22	0.800	-0.055	-0.096	-0.022	0.010
66	0.850	0.134	0.100	0.165	0.008
25	0.950	0.265	0.240	0.290	0.008
26	1.000	0.259	0.239	0.282	0.006

Lower surface at ETA = 0.60

27	0.010	0.682	0.651	0.712	0.009
28	0.020	0.413	0.377	0.449	0.010
30	0.050	0.172	0.142	0.208	0.010
31	0.100	-0.143	-0.180	-0.103	0.011
32	0.200	-0.317	-0.368	-0.270	0.014
33	0.300	-0.450	-0.503	-0.402	0.013
34	0.400	-0.358	-0.406	-0.308	0.012
35	0.500	-0.167	-0.207	-0.126	0.010
36	0.600	-0.108	-0.142	-0.069	0.010
37	0.700	-0.029	-0.061	0.007	0.009
38	0.800	-0.101	-0.130	-0.072	0.008

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.070	1.054	1.090	0.005
70	0.010	-0.104	-0.140	-0.062	0.011
71	0.020	-0.300	-0.332	-0.256	0.010
72	0.030	-0.398	-0.429	-0.360	0.009
73	0.040	-0.423	-0.446	-0.388	0.008
74	0.050	-0.482	-0.507	-0.455	0.007
75	0.075	-1.147	-1.162	-1.131	0.005
76	0.100	-1.064	-1.091	-1.008	0.011
77	0.150	-0.718	-0.758	-0.675	0.011
78	0.200	-0.641	-0.716	-0.581	0.019
79	0.250	-0.422	-0.489	-0.365	0.017
81	0.350	-0.274	-0.325	-0.223	0.013
82	0.400	-0.235	-0.277	-0.189	0.012
83	0.450	-0.304	-0.340	-0.264	0.011
84	0.500	-0.172	-0.205	-0.132	0.010
85	0.550	-0.127	-0.160	-0.087	0.010
86	0.600	-0.203	-0.232	-0.171	0.009
87	0.650	-0.052	-0.084	-0.021	0.009
88	0.700	-0.161	-0.189	-0.132	0.009
89	0.750	-0.013	-0.038	0.015	0.008
90	0.800	-0.068	-0.094	-0.041	0.008
91	0.850	-0.048	-0.073	-0.023	0.008
92	0.900	0.095	0.070	0.120	0.007
93	0.950	0.225	0.201	0.247	0.007
94	1.000	0.032	0.016	0.050	0.006

Lower surface at ETA = 0.95

95	0.010	0.621	0.584	0.655	0.010
96	0.020	0.207	0.170	0.244	0.010
97	0.030	0.121	0.086	0.156	0.010
98	0.050	-0.001	-0.035	0.035	0.010
99	0.100	-0.195	-0.231	-0.157	0.011
100	0.200	-0.432	-0.475	-0.391	0.012
101	0.300	-0.234	-0.279	-0.193	0.011
102	0.400	-0.193	-0.236	-0.154	0.011
103	0.500	-0.110	-0.144	-0.074	0.010
104	0.600	-0.202	-0.232	-0.169	0.009
105	0.700	-0.144	-0.172	-0.115	0.009
106	0.800	-0.098	-0.124	-0.074	0.008
107	0.900	-0.011	-0.037	0.013	0.007
108	0.950	0.123	0.099	0.144	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
637	0.77	139.8	4.03

The data was adjusted using wind-off zero 551

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
Upper surface at ETA = 0.60					
1	0.000	1.020	1.000	1.038	0.006
2	0.010	-0.142	-0.183	-0.104	0.012
3	0.020	-0.566	-0.606	-0.526	0.011
4	0.030	-0.640	-0.677	-0.603	0.011
5	0.040	-0.597	-0.629	-0.567	0.008
6	0.050	-0.394	-0.424	-0.366	0.008
7	0.075	-0.990	-1.003	-0.977	0.004
8	0.100	-1.157	-1.169	-1.140	0.004
9	0.150	-1.209	-1.230	-1.187	0.006
10	0.200	-1.134	-1.157	-1.114	0.005
11	0.250	-1.261	-1.287	-1.234	0.006
12	0.300	-1.145	-1.191	-0.931	0.026
13	0.350	-0.693	-1.008	-0.564	0.055
14	0.400	-0.495	-0.586	-0.423	0.024
15	0.450	-0.406	-0.478	-0.351	0.017
16	0.500	-0.339	-0.397	-0.301	0.012
62	0.550	-0.153	-0.206	-0.120	0.011
18	0.600	-0.246	-0.291	-0.212	0.010
63	0.650	-0.186	-0.222	-0.163	0.008
20	0.700	-0.018	-0.058	0.017	0.011
21	0.750	-0.088	-0.126	-0.052	0.009
22	0.800	-0.049	-0.085	-0.016	0.010
66	0.850	0.136	0.101	0.162	0.008
25	0.950	0.261	0.232	0.287	0.008
26	1.000	0.255	0.227	0.274	0.006
Lower surface at ETA = 0.60					
27	0.010	0.765	0.735	0.795	0.009
28	0.020	0.506	0.471	0.542	0.010
30	0.050	0.253	0.220	0.287	0.009
31	0.100	-0.057	-0.095	-0.020	0.010
32	0.200	-0.247	-0.293	-0.199	0.012
33	0.300	-0.401	-0.447	-0.356	0.012
34	0.400	-0.327	-0.368	-0.283	0.012
35	0.500	-0.150	-0.188	-0.117	0.010
36	0.600	-0.098	-0.138	-0.068	0.009
37	0.700	-0.026	-0.064	0.007	0.009
38	0.800	-0.099	-0.139	-0.069	0.008

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
Upper surface at ETA = 0.95					
69	0.000	1.037	1.019	1.058	0.006
70	0.010	-0.214	-0.254	-0.174	0.011
71	0.020	-0.411	-0.448	-0.371	0.011
72	0.030	-0.501	-0.534	-0.460	0.010
73	0.040	-0.505	-0.534	-0.476	0.009
74	0.050	-0.549	-0.577	-0.522	0.008
75	0.075	-1.166	-1.178	-1.143	0.004
76	0.100	-1.118	-1.138	-1.095	0.005
77	0.150	-0.821	-0.892	-0.756	0.021
78	0.200	-0.744	-0.794	-0.648	0.022
79	0.250	-0.473	-0.552	-0.396	0.022
81	0.350	-0.293	-0.345	-0.246	0.014
82	0.400	-0.249	-0.295	-0.209	0.012
83	0.450	-0.314	-0.357	-0.277	0.011
84	0.500	-0.182	-0.223	-0.146	0.010
85	0.550	-0.138	-0.181	-0.104	0.010
86	0.600	-0.211	-0.252	-0.179	0.009
87	0.650	-0.062	-0.103	-0.029	0.009
88	0.700	-0.168	-0.208	-0.138	0.008
89	0.750	-0.022	-0.059	0.007	0.008
90	0.800	-0.079	-0.117	-0.052	0.008
91	0.850	-0.063	-0.098	-0.038	0.007
92	0.900	0.075	0.043	0.098	0.007
93	0.950	0.225	0.196	0.250	0.007
94	1.000	0.029	0.006	0.048	0.005
Lower surface at ETA = 0.95					
95	0.010	0.695	0.666	0.725	0.009
96	0.020	0.288	0.258	0.322	0.010
97	0.030	0.173	0.114	0.243	0.033
98	0.050	0.068	0.036	0.104	0.010
99	0.100	-0.139	-0.178	-0.098	0.010
100	0.200	-0.399	-0.442	-0.356	0.011
101	0.300	-0.218	-0.260	-0.181	0.011
102	0.400	-0.188	-0.224	-0.153	0.010
103	0.500	-0.110	-0.145	-0.076	0.010
104	0.600	-0.204	-0.242	-0.173	0.009
105	0.700	-0.151	-0.189	-0.120	0.008
106	0.800	-0.106	-0.140	-0.079	0.008
107	0.900	-0.020	-0.051	0.005	0.007
108	0.950	0.115	0.085	0.138	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
638	0.77	139.7	5.00

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.973	0.951	0.994	0.007
2	0.010	-0.270	-0.311	-0.226	0.012
3	0.020	-0.698	-0.743	-0.653	0.012
4	0.030	-0.780	-0.824	-0.731	0.013
5	0.040	-0.717	-0.762	-0.673	0.012
6	0.050	-0.509	-0.556	-0.467	0.012
7	0.075	-0.997	-1.010	-0.985	0.004
8	0.100	-1.189	-1.204	-1.175	0.004
9	0.150	-1.280	-1.298	-1.259	0.006
10	0.200	-1.194	-1.212	-1.176	0.005
11	0.250	-1.338	-1.360	-1.319	0.006
12	0.300	-1.189	-1.271	-0.711	0.071
13	0.350	-0.715	-0.937	-0.596	0.037
14	0.400	-0.572	-0.653	-0.482	0.024
15	0.450	-0.486	-0.579	-0.404	0.024
16	0.500	-0.401	-0.492	-0.335	0.020
62	0.550	-0.196	-0.274	-0.144	0.016
18	0.600	-0.272	-0.318	-0.230	0.012
63	0.650	-0.201	-0.229	-0.173	0.009
20	0.700	-0.030	-0.063	0.007	0.011
21	0.750	-0.093	-0.126	-0.056	0.009
22	0.800	-0.052	-0.087	-0.020	0.009
66	0.850	0.129	0.100	0.156	0.008
25	0.950	0.248	0.217	0.274	0.007
26	1.000	0.238	0.208	0.260	0.007

Lower surface at ETA = 0.60

27	0.010	0.838	0.805	0.866	0.008
28	0.020	0.590	0.552	0.623	0.009
30	0.050	0.327	0.291	0.355	0.009
31	0.100	0.017	-0.018	0.055	0.009
32	0.200	-0.188	-0.225	-0.150	0.011
33	0.300	-0.360	-0.398	-0.318	0.011
34	0.400	-0.303	-0.341	-0.259	0.010
35	0.500	-0.140	-0.172	-0.099	0.009
36	0.600	-0.096	-0.128	-0.066	0.009
37	0.700	-0.031	-0.062	-0.002	0.009
38	0.800	-0.107	-0.139	-0.079	0.008

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.002	0.979	1.024	0.006
70	0.010	-0.324	-0.364	-0.281	0.012
71	0.020	-0.525	-0.564	-0.480	0.012
72	0.030	-0.614	-0.655	-0.571	0.012
73	0.040	-0.598	-0.640	-0.553	0.011
74	0.050	-0.629	-0.667	-0.591	0.010
75	0.075	-1.178	-1.189	-1.167	0.003
76	0.100	-1.154	-1.167	-1.138	0.005
77	0.150	-0.926	-0.994	-0.863	0.018
78	0.200	-0.783	-0.841	-0.715	0.017
79	0.250	-0.522	-0.627	-0.434	0.026
81	0.350	-0.310	-0.363	-0.248	0.015
82	0.400	-0.262	-0.308	-0.212	0.013
83	0.450	-0.325	-0.364	-0.280	0.011
84	0.500	-0.194	-0.229	-0.154	0.010
85	0.550	-0.148	-0.183	-0.110	0.010
86	0.600	-0.220	-0.252	-0.189	0.009
87	0.650	-0.071	-0.101	-0.041	0.009
88	0.700	-0.177	-0.208	-0.145	0.008
89	0.750	-0.036	-0.062	-0.009	0.008
90	0.800	-0.095	-0.125	-0.066	0.008
91	0.850	-0.082	-0.110	-0.055	0.007
92	0.900	0.053	0.028	0.076	0.007
93	0.950	0.202	0.175	0.227	0.008
94	1.000	0.023	0.001	0.048	0.005

Lower surface at ETA = 0.95

95	0.010	0.762	0.731	0.793	0.009
96	0.020	0.361	0.328	0.396	0.009
97	0.030	0.230	0.196	0.265	0.009
98	0.050	0.133	0.100	0.164	0.009
99	0.100	-0.086	-0.120	-0.035	0.011
100	0.200	-0.369	-0.409	-0.332	0.011
101	0.300	-0.206	-0.240	-0.164	0.010
102	0.400	-0.184	-0.216	-0.141	0.010
103	0.500	-0.113	-0.147	-0.072	0.009
104	0.600	-0.210	-0.244	-0.178	0.009
105	0.700	-0.158	-0.192	-0.127	0.008
106	0.800	-0.115	-0.143	-0.086	0.008
107	0.900	-0.029	-0.055	-0.003	0.007
108	0.950	0.105	0.082	0.127	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
639	0.77	140.2	6.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.915	0.886	0.941	0.008	69	0.000	0.957	0.936	0.982	0.007
2	0.010	-0.393	-0.433	-0.352	0.012	70	0.010	-0.430	-0.472	-0.387	0.012
3	0.020	-0.823	-0.863	-0.780	0.011	71	0.020	-0.637	-0.675	-0.596	0.011
4	0.030	-0.925	-0.965	-0.878	0.012	72	0.030	-0.737	-0.779	-0.693	0.013
5	0.040	-0.924	-0.975	-0.844	0.018	73	0.040	-0.731	-0.788	-0.674	0.016
6	0.050	-0.707	-0.756	-0.633	0.018	74	0.050	-0.749	-0.809	-0.696	0.016
7	0.075	-0.995	-1.030	-0.980	0.005	75	0.075	-1.169	-1.184	-1.139	0.004
8	0.100	-1.192	-1.206	-1.177	0.005	76	0.100	-1.165	-1.176	-1.154	0.004
9	0.150	-1.326	-1.341	-1.311	0.005	77	0.150	-1.005	-1.096	-0.925	0.023
10	0.200	-1.240	-1.262	-1.222	0.006	78	0.200	-0.821	-0.892	-0.735	0.023
11	0.250	-1.329	-1.402	-0.846	0.085	79	0.250	-0.550	-0.677	-0.440	0.039
12	0.300	-0.694	-1.212	-0.535	0.087	81	0.350	-0.311	-0.383	-0.257	0.017
13	0.350	-0.668	-0.770	-0.575	0.027	82	0.400	-0.264	-0.312	-0.219	0.014
14	0.400	-0.590	-0.673	-0.487	0.026	83	0.450	-0.328	-0.369	-0.290	0.011
15	0.450	-0.536	-0.621	-0.440	0.026	84	0.500	-0.200	-0.235	-0.162	0.010
16	0.500	-0.472	-0.558	-0.381	0.027	85	0.550	-0.156	-0.190	-0.121	0.010
62	0.550	-0.279	-0.375	-0.181	0.027	86	0.600	-0.227	-0.260	-0.193	0.009
18	0.600	-0.349	-0.437	-0.250	0.026	87	0.650	-0.082	-0.112	-0.050	0.009
63	0.650	-0.272	-0.349	-0.198	0.020	88	0.700	-0.189	-0.222	-0.156	0.009
20	0.700	-0.099	-0.177	-0.008	0.024	89	0.750	-0.053	-0.081	-0.024	0.008
21	0.750	-0.149	-0.237	-0.069	0.023	90	0.800	-0.114	-0.147	-0.082	0.008
22	0.800	-0.105	-0.186	-0.036	0.022	91	0.850	-0.103	-0.137	-0.072	0.008
66	0.850	0.073	-0.014	0.137	0.020	92	0.900	0.026	-0.003	0.054	0.008
25	0.950	0.180	0.095	0.246	0.021	93	0.950	0.166	0.134	0.191	0.008
26	1.000	0.168	0.085	0.228	0.020	94	1.000	0.014	-0.012	0.032	0.005
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.898	0.871	0.928	0.008	95	0.010	0.820	0.789	0.852	0.008
28	0.020	0.661	0.626	0.698	0.008	96	0.020	0.428	0.394	0.464	0.009
						97	0.030	0.306	0.267	0.337	0.009
30	0.050	0.392	0.360	0.422	0.008	98	0.050	0.192	0.153	0.222	0.009
31	0.100	0.088	0.050	0.121	0.009	99	0.100	-0.036	-0.072	0.000	0.009
32	0.200	-0.138	-0.177	-0.102	0.010	100	0.200	-0.339	-0.375	-0.302	0.010
33	0.300	-0.325	-0.360	-0.286	0.011	101	0.300	-0.192	-0.227	-0.156	0.011
34	0.400	-0.285	-0.322	-0.253	0.011	102	0.400	-0.180	-0.216	-0.148	0.010
35	0.500	-0.136	-0.171	-0.098	0.010	103	0.500	-0.117	-0.149	-0.089	0.009
36	0.600	-0.103	-0.143	-0.062	0.010	104	0.600	-0.216	-0.245	-0.188	0.009
37	0.700	-0.048	-0.090	-0.007	0.010	105	0.700	-0.167	-0.196	-0.139	0.008
38	0.800	-0.132	-0.186	-0.092	0.011	106	0.800	-0.125	-0.150	-0.102	0.007
						107	0.900	-0.039	-0.065	-0.015	0.007
						108	0.950	0.092	0.068	0.113	0.006

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
640	0.75	138.8	-0.95

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.100	1.085	1.119	0.005
2	0.010	0.484	0.444	0.520	0.011
3	0.020	0.041	0.007	0.077	0.011
4	0.030	-0.090	-0.126	-0.053	0.011
5	0.040	-0.152	-0.185	-0.118	0.010
6	0.050	-0.021	-0.054	0.007	0.009
7	0.075	-0.399	-0.448	-0.347	0.016
8	0.100	-0.475	-0.513	-0.432	0.012
9	0.150	-0.551	-0.602	-0.494	0.014
10	0.200	-0.471	-0.523	-0.415	0.015
11	0.250	-0.537	-0.586	-0.490	0.014
12	0.300	-0.401	-0.453	-0.353	0.014
13	0.350	-0.451	-0.498	-0.403	0.013
14	0.400	-0.391	-0.437	-0.348	0.012
15	0.450	-0.357	-0.401	-0.320	0.011
16	0.500	-0.323	-0.364	-0.290	0.010
62	0.550	-0.151	-0.189	-0.114	0.011
18	0.600	-0.253	-0.289	-0.220	0.009
63	0.650	-0.199	-0.227	-0.174	0.008
20	0.700	-0.035	-0.071	0.002	0.011
21	0.750	-0.107	-0.136	-0.069	0.009
22	0.800	-0.069	-0.112	-0.040	0.010
66	0.850	0.114	0.087	0.146	0.008
25	0.950	0.247	0.218	0.278	0.007
26	1.000	0.255	0.233	0.278	0.006

Lower surface at ETA = 0.60

27	0.010	0.204	0.164	0.239	0.011
28	0.020	-0.092	-0.135	-0.052	0.012
30	0.050	-0.206	-0.235	-0.179	0.008
31	0.100	-0.544	-0.638	-0.506	0.014
32	0.200	-0.635	-0.744	-0.550	0.029
33	0.300	-0.610	-0.683	-0.551	0.017
34	0.400	-0.446	-0.495	-0.402	0.013
35	0.500	-0.220	-0.261	-0.181	0.010
36	0.600	-0.137	-0.172	-0.102	0.009
37	0.700	-0.040	-0.072	-0.011	0.009
38	0.800	-0.096	-0.123	-0.070	0.008

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.107	1.089	1.128	0.005
70	0.010	0.315	0.282	0.353	0.011
71	0.020	0.113	0.078	0.149	0.011
72	0.030	-0.027	-0.060	0.008	0.010
73	0.040	-0.110	-0.144	-0.077	0.010
74	0.050	-0.241	-0.272	-0.208	0.009
75	0.075	-0.477	-0.526	-0.431	0.014
76	0.100	-0.460	-0.499	-0.421	0.012
77	0.150	-0.487	-0.526	-0.445	0.011
78	0.200	-0.452	-0.492	-0.401	0.011
79	0.250	-0.296	-0.335	-0.258	0.011
81	0.350	-0.212	-0.251	-0.171	0.011
82	0.400	-0.194	-0.231	-0.159	0.009
83	0.450	-0.274	-0.306	-0.243	0.009
84	0.500	-0.153	-0.184	-0.124	0.009
85	0.550	-0.115	-0.147	-0.087	0.009
86	0.600	-0.193	-0.222	-0.166	0.009
87	0.650	-0.050	-0.079	-0.019	0.008
88	0.700	-0.159	-0.186	-0.129	0.008
89	0.750	-0.015	-0.043	0.014	0.007
90	0.800	-0.070	-0.098	-0.042	0.008
91	0.850	-0.048	-0.074	-0.020	0.007
92	0.900	0.100	0.075	0.126	0.007
93	0.950	0.242	0.216	0.272	0.007
94	1.000	0.023	0.001	0.048	0.005

Lower surface at ETA = 0.95

95	0.010	0.217	0.182	0.255	0.011
96	0.020	-0.204	-0.240	-0.167	0.011
97	0.030	-0.300	-0.336	-0.257	0.011
98	0.050	-0.323	-0.354	-0.290	0.010
99	0.100	-0.433	-0.480	-0.389	0.012
100	0.200	-0.548	-0.600	-0.500	0.013
101	0.300	-0.286	-0.331	-0.249	0.011
102	0.400	-0.213	-0.252	-0.182	0.010
103	0.500	-0.110	-0.144	-0.078	0.009
104	0.600	-0.185	-0.216	-0.157	0.009
105	0.700	-0.119	-0.147	-0.091	0.008
106	0.800	-0.065	-0.090	-0.036	0.008
107	0.900	0.025	-0.001	0.053	0.008
108	0.950	0.148	0.126	0.172	0.007

C-2

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
641	0.75	139.0	0.07

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.104	1.083	1.121	0.005	69	0.000	1.107	1.089	1.123	0.005
2	0.010	0.354	0.302	0.390	0.011	70	0.010	0.209	0.170	0.247	0.011
3	0.020	-0.089	-0.135	-0.053	0.011	71	0.020	0.009	-0.031	0.042	0.011
4	0.030	-0.213	-0.259	-0.177	0.011	72	0.030	-0.123	-0.163	-0.091	0.010
5	0.040	-0.262	-0.304	-0.230	0.009	73	0.040	-0.197	-0.232	-0.165	0.010
6	0.050	-0.121	-0.154	-0.089	0.008	74	0.050	-0.313	-0.344	-0.286	0.009
7	0.075	-0.580	-0.662	-0.520	0.018	75	0.075	-0.587	-0.647	-0.534	0.016
8	0.100	-0.584	-0.629	-0.542	0.012	76	0.100	-0.523	-0.566	-0.484	0.012
9	0.150	-0.655	-0.723	-0.601	0.017	77	0.150	-0.534	-0.574	-0.496	0.012
10	0.200	-0.556	-0.628	-0.503	0.018	78	0.200	-0.485	-0.525	-0.446	0.012
11	0.250	-0.599	-0.666	-0.551	0.017	79	0.250	-0.319	-0.362	-0.285	0.011
12	0.300	-0.445	-0.500	-0.399	0.015	81	0.350	-0.224	-0.265	-0.187	0.011
13	0.350	-0.483	-0.530	-0.432	0.013	82	0.400	-0.201	-0.240	-0.165	0.010
14	0.400	-0.415	-0.456	-0.364	0.012	83	0.450	-0.278	-0.314	-0.245	0.010
15	0.450	-0.376	-0.418	-0.333	0.011	84	0.500	-0.155	-0.186	-0.124	0.009
16	0.500	-0.337	-0.371	-0.294	0.011	85	0.550	-0.115	-0.146	-0.082	0.009
62	0.550	-0.162	-0.196	-0.124	0.011	86	0.600	-0.192	-0.221	-0.158	0.009
18	0.600	-0.260	-0.294	-0.223	0.009	87	0.650	-0.046	-0.074	-0.013	0.008
63	0.650	-0.203	-0.228	-0.176	0.008	88	0.700	-0.154	-0.179	-0.122	0.008
20	0.700	-0.037	-0.070	-0.003	0.011	89	0.750	-0.008	-0.036	0.022	0.008
21	0.750	-0.107	-0.146	-0.075	0.010	90	0.800	-0.062	-0.089	-0.032	0.008
22	0.800	-0.067	-0.105	-0.034	0.010	91	0.850	-0.039	-0.062	-0.012	0.008
66	0.850	0.118	0.087	0.148	0.008	92	0.900	0.110	0.085	0.136	0.008
25	0.950	0.252	0.220	0.282	0.007	93	0.950	0.253	0.228	0.282	0.007
26	1.000	0.254	0.233	0.276	0.006	94	1.000	0.021	0.001	0.048	0.006
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.338	0.301	0.377	0.011	95	0.010	0.327	0.285	0.368	0.011
28	0.020	0.048	0.010	0.093	0.012	96	0.020	-0.094	-0.136	-0.056	0.011
						97	0.030	-0.182	-0.226	-0.144	0.011
30	0.050	-0.120	-0.149	-0.088	0.009	98	0.050	-0.239	-0.281	-0.206	0.010
31	0.100	-0.451	-0.498	-0.409	0.013	99	0.100	-0.369	-0.414	-0.330	0.012
32	0.200	-0.535	-0.609	-0.466	0.018	100	0.200	-0.512	-0.551	-0.465	0.012
33	0.300	-0.569	-0.620	-0.514	0.015	101	0.300	-0.269	-0.311	-0.231	0.011
34	0.400	-0.423	-0.473	-0.380	0.012	102	0.400	-0.205	-0.247	-0.170	0.010
35	0.500	-0.207	-0.248	-0.171	0.011	103	0.500	-0.107	-0.144	-0.076	0.010
36	0.600	-0.131	-0.164	-0.098	0.010	104	0.600	-0.186	-0.217	-0.156	0.009
37	0.700	-0.039	-0.072	-0.009	0.009	105	0.700	-0.122	-0.151	-0.092	0.008
38	0.800	-0.099	-0.128	-0.072	0.008	106	0.800	-0.070	-0.097	-0.039	0.008
						107	0.900	0.020	-0.010	0.047	0.008
						108	0.950	0.145	0.119	0.170	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
642	0.75	139.5	1.08

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.097	1.081	1.115	0.005
2	0.010	0.211	0.169	0.258	0.012
3	0.020	-0.226	-0.265	-0.183	0.011
4	0.030	-0.338	-0.374	-0.299	0.010
5	0.040	-0.368	-0.395	-0.336	0.009
6	0.050	-0.207	-0.234	-0.180	0.007
7	0.075	-0.915	-0.969	-0.796	0.025
8	0.100	-0.672	-0.759	-0.637	0.010
9	0.150	-0.780	-0.830	-0.704	0.020
10	0.200	-0.661	-0.776	-0.568	0.030
11	0.250	-0.661	-0.800	-0.599	0.022
12	0.300	-0.486	-0.553	-0.432	0.017
13	0.350	-0.511	-0.566	-0.465	0.014
14	0.400	-0.435	-0.483	-0.391	0.013
15	0.450	-0.391	-0.427	-0.350	0.011
16	0.500	-0.347	-0.383	-0.310	0.010
62	0.550	-0.170	-0.205	-0.131	0.010
18	0.600	-0.265	-0.296	-0.228	0.009
63	0.650	-0.206	-0.229	-0.180	0.008
20	0.700	-0.039	-0.066	-0.001	0.010
21	0.750	-0.105	-0.136	-0.071	0.009
22	0.800	-0.065	-0.105	-0.033	0.010
66	0.850	0.121	0.094	0.151	0.008
25	0.950	0.254	0.230	0.281	0.007
26	1.000	0.254	0.235	0.277	0.006

Lower surface at ETA = 0.60

27	0.010	0.467	0.430	0.503	0.010
28	0.020	0.183	0.142	0.224	0.011
30	0.050	-0.020	-0.054	0.017	0.012
31	0.100	-0.335	-0.374	-0.287	0.012
32	0.200	-0.446	-0.496	-0.390	0.015
33	0.300	-0.519	-0.566	-0.478	0.013
34	0.400	-0.396	-0.435	-0.363	0.012
35	0.500	-0.193	-0.227	-0.160	0.011
36	0.600	-0.123	-0.154	-0.092	0.010
37	0.700	-0.037	-0.068	-0.002	0.009
38	0.800	-0.100	-0.130	-0.069	0.008

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.098	1.081	1.115	0.005
70	0.010	0.094	0.053	0.135	0.011
71	0.020	-0.106	-0.145	-0.065	0.011
72	0.030	-0.225	-0.261	-0.189	0.010
73	0.040	-0.286	-0.318	-0.254	0.009
74	0.050	-0.384	-0.409	-0.354	0.008
75	0.075	-0.804	-0.921	-0.695	0.038
76	0.100	-0.586	-0.617	-0.552	0.011
77	0.150	-0.584	-0.625	-0.545	0.012
78	0.200	-0.518	-0.566	-0.476	0.013
79	0.250	-0.343	-0.384	-0.306	0.012
81	0.350	-0.237	-0.272	-0.202	0.011
82	0.400	-0.209	-0.241	-0.177	0.010
83	0.450	-0.282	-0.310	-0.250	0.009
84	0.500	-0.158	-0.186	-0.128	0.009
85	0.550	-0.116	-0.145	-0.087	0.009
86	0.600	-0.190	-0.217	-0.161	0.009
87	0.650	-0.044	-0.070	-0.016	0.008
88	0.700	-0.150	-0.175	-0.122	0.008
89	0.750	-0.005	-0.030	0.021	0.008
90	0.800	-0.057	-0.084	-0.032	0.008
91	0.850	-0.034	-0.062	-0.005	0.007
92	0.900	0.112	0.086	0.140	0.007
93	0.950	0.263	0.237	0.290	0.008
94	1.000	0.025	0.003	0.048	0.005

Lower surface at ETA = 0.95

95	0.010	0.432	0.397	0.470	0.010
96	0.020	0.017	-0.022	0.054	0.011
97	0.030	-0.071	-0.108	-0.031	0.010
98	0.050	-0.155	-0.189	-0.120	0.010
99	0.100	-0.305	-0.343	-0.265	0.011
100	0.200	-0.475	-0.513	-0.437	0.012
101	0.300	-0.252	-0.287	-0.214	0.011
102	0.400	-0.197	-0.235	-0.164	0.010
103	0.500	-0.105	-0.138	-0.076	0.009
104	0.600	-0.188	-0.219	-0.158	0.009
105	0.700	-0.127	-0.154	-0.101	0.008
106	0.800	-0.079	-0.104	-0.055	0.008
107	0.900	0.009	-0.015	0.036	0.007
108	0.950	0.136	0.113	0.162	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
643	0.75	139.5	1.99

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.082	1.057	1.101	0.005	69	0.000	1.086	1.069	1.105	0.005
2	0.010	0.072	0.020	0.114	0.012	70	0.010	-0.018	-0.057	0.025	0.011
3	0.020	-0.357	-0.404	-0.316	0.011	71	0.020	-0.219	-0.259	-0.177	0.011
4	0.030	-0.454	-0.495	-0.418	0.009	72	0.030	-0.327	-0.362	-0.287	0.010
5	0.040	-0.462	-0.495	-0.435	0.008	73	0.040	-0.372	-0.403	-0.337	0.009
6	0.050	-0.281	-0.312	-0.257	0.007	74	0.050	-0.449	-0.476	-0.419	0.008
7	0.075	-1.015	-1.036	-0.999	0.005	75	0.075	-1.103	-1.161	-0.965	0.025
8	0.100	-1.093	-1.126	-1.041	0.009	76	0.100	-0.632	-0.704	-0.594	0.011
9	0.150	-0.892	-1.036	-0.727	0.063	77	0.150	-0.631	-0.673	-0.586	0.013
10	0.200	-0.727	-0.891	-0.608	0.044	78	0.200	-0.554	-0.602	-0.508	0.013
11	0.250	-0.718	-0.902	-0.622	0.041	79	0.250	-0.369	-0.413	-0.328	0.012
12	0.300	-0.513	-0.614	-0.448	0.021	81	0.350	-0.249	-0.286	-0.210	0.011
13	0.350	-0.531	-0.587	-0.473	0.015	82	0.400	-0.219	-0.256	-0.183	0.010
14	0.400	-0.451	-0.499	-0.401	0.013	83	0.450	-0.288	-0.323	-0.256	0.009
15	0.450	-0.403	-0.444	-0.359	0.012	84	0.500	-0.163	-0.200	-0.131	0.009
16	0.500	-0.356	-0.398	-0.318	0.011	85	0.550	-0.120	-0.153	-0.088	0.009
62	0.550	-0.177	-0.219	-0.140	0.010	86	0.600	-0.193	-0.225	-0.162	0.009
18	0.600	-0.269	-0.307	-0.233	0.010	87	0.650	-0.047	-0.080	-0.018	0.008
63	0.650	-0.208	-0.234	-0.182	0.008	88	0.700	-0.151	-0.179	-0.122	0.008
20	0.700	-0.040	-0.079	-0.004	0.010	89	0.750	-0.007	-0.034	0.020	0.007
21	0.750	-0.104	-0.136	-0.075	0.009	90	0.800	-0.059	-0.086	-0.034	0.008
22	0.800	-0.062	-0.096	-0.031	0.009	91	0.850	-0.038	-0.064	-0.012	0.007
66	0.850	0.124	0.096	0.151	0.008	92	0.900	0.105	0.080	0.128	0.007
25	0.950	0.257	0.221	0.283	0.007	93	0.950	0.247	0.223	0.281	0.007
26	1.000	0.254	0.228	0.274	0.006	94	1.000	0.030	0.011	0.048	0.005
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.580	0.543	0.622	0.010	95	0.010	0.528	0.498	0.567	0.010
28	0.020	0.301	0.257	0.352	0.011	96	0.020	0.115	0.083	0.156	0.011
						97	0.030	0.033	-0.008	0.074	0.011
30	0.050	0.076	0.034	0.120	0.009	98	0.050	-0.078	-0.110	-0.037	0.010
31	0.100	-0.234	-0.273	-0.190	0.011	99	0.100	-0.247	-0.285	-0.207	0.011
32	0.200	-0.371	-0.420	-0.327	0.014	100	0.200	-0.442	-0.481	-0.405	0.011
33	0.300	-0.475	-0.517	-0.435	0.013	101	0.300	-0.237	-0.274	-0.204	0.011
34	0.400	-0.370	-0.414	-0.333	0.011	102	0.400	-0.191	-0.226	-0.158	0.010
35	0.500	-0.177	-0.219	-0.144	0.010	103	0.500	-0.105	-0.140	-0.076	0.009
36	0.600	-0.115	-0.152	-0.086	0.010	104	0.600	-0.191	-0.223	-0.163	0.008
37	0.700	-0.034	-0.066	-0.005	0.009	105	0.700	-0.133	-0.162	-0.104	0.008
38	0.800	-0.100	-0.130	-0.076	0.008	106	0.800	-0.088	-0.115	-0.059	0.008
						107	0.900	-0.001	-0.030	0.024	0.007
						108	0.950	0.128	0.104	0.149	0.006

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
644	0.75	139.8	3.01

The data was adjusted using wind-off zero 551

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
Upper surface at ETA = 0.60					
1	0.000	1.045	1.025	1.061	0.005
2	0.010	-0.071	-0.111	-0.029	0.012
3	0.020	-0.494	-0.534	-0.449	0.011
4	0.030	-0.576	-0.613	-0.538	0.010
5	0.040	-0.557	-0.586	-0.524	0.007
6	0.050	-0.363	-0.392	-0.335	0.008
7	0.075	-1.053	-1.066	-1.037	0.004
8	0.100	-1.179	-1.204	-1.158	0.006
9	0.150	-1.169	-1.201	-1.132	0.010
10	0.200	-1.069	-1.114	-0.933	0.018
11	0.250	-0.916	-1.150	-0.634	0.111
12	0.300	-0.487	-0.614	-0.423	0.023
13	0.350	-0.514	-0.587	-0.451	0.017
14	0.400	-0.443	-0.506	-0.387	0.015
15	0.450	-0.399	-0.450	-0.352	0.012
16	0.500	-0.354	-0.397	-0.312	0.011
62	0.550	-0.176	-0.216	-0.139	0.011
18	0.600	-0.267	-0.304	-0.233	0.010
63	0.650	-0.206	-0.234	-0.181	0.008
20	0.700	-0.038	-0.073	-0.003	0.011
21	0.750	-0.102	-0.143	-0.063	0.009
22	0.800	-0.059	-0.096	-0.029	0.009
66	0.850	0.127	0.096	0.154	0.008
25	0.950	0.258	0.232	0.285	0.008
26	1.000	0.253	0.232	0.275	0.006
Lower surface at ETA = 0.60					
27	0.010	0.681	0.645	0.712	0.009
28	0.020	0.412	0.370	0.448	0.010
30	0.050	0.167	0.130	0.203	0.010
31	0.100	-0.137	-0.176	-0.099	0.010
32	0.200	-0.296	-0.340	-0.253	0.012
33	0.300	-0.425	-0.465	-0.382	0.011
34	0.400	-0.340	-0.375	-0.296	0.011
35	0.500	-0.158	-0.200	-0.123	0.009
36	0.600	-0.103	-0.147	-0.070	0.009
37	0.700	-0.028	-0.068	0.006	0.008
38	0.800	-0.099	-0.134	-0.072	0.008

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
Upper surface at ETA = 0.95					
69	0.000	1.058	1.038	1.074	0.005
70	0.010	-0.141	-0.183	-0.099	0.011
71	0.020	-0.339	-0.379	-0.299	0.011
72	0.030	-0.433	-0.473	-0.394	0.010
73	0.040	-0.459	-0.490	-0.426	0.008
74	0.050	-0.517	-0.545	-0.490	0.007
75	0.075	-1.207	-1.227	-1.171	0.006
76	0.100	-0.920	-1.083	-0.672	0.061
77	0.150	-0.682	-0.730	-0.636	0.014
78	0.200	-0.589	-0.634	-0.540	0.014
79	0.250	-0.392	-0.439	-0.345	0.013
81	0.350	-0.263	-0.309	-0.218	0.012
82	0.400	-0.228	-0.268	-0.188	0.010
83	0.450	-0.296	-0.330	-0.258	0.010
84	0.500	-0.169	-0.201	-0.132	0.009
85	0.550	-0.126	-0.156	-0.090	0.009
86	0.600	-0.198	-0.225	-0.167	0.009
87	0.650	-0.052	-0.083	-0.023	0.008
88	0.700	-0.157	-0.186	-0.125	0.008
89	0.750	-0.014	-0.044	0.014	0.007
90	0.800	-0.067	-0.095	-0.038	0.008
91	0.850	-0.047	-0.075	-0.020	0.007
92	0.900	0.092	0.067	0.118	0.007
93	0.950	0.236	0.207	0.259	0.007
94	1.000	0.029	0.011	0.048	0.006
Lower surface at ETA = 0.95					
95	0.010	0.616	0.580	0.646	0.010
96	0.020	0.207	0.169	0.241	0.010
97	0.030	0.077	0.031	0.165	0.025
98	0.050	-0.002	-0.035	0.033	0.009
99	0.100	-0.186	-0.219	-0.143	0.010
100	0.200	-0.409	-0.442	-0.366	0.011
101	0.300	-0.220	-0.257	-0.177	0.010
102	0.400	-0.183	-0.218	-0.147	0.010
103	0.500	-0.104	-0.136	-0.072	0.009
104	0.600	-0.194	-0.224	-0.164	0.008
105	0.700	-0.139	-0.167	-0.112	0.008
106	0.800	-0.096	-0.124	-0.068	0.008
107	0.900	-0.011	-0.037	0.018	0.007
108	0.950	0.120	0.095	0.142	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
645	0.75	140.1	3.99

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.003	0.981	1.026	0.007	69	0.000	1.027	1.005	1.049	0.006
2	0.010	-0.205	-0.247	-0.164	0.012	70	0.010	-0.256	-0.299	-0.213	0.012
3	0.020	-0.627	-0.673	-0.586	0.012	71	0.020	-0.455	-0.496	-0.412	0.012
4	0.030	-0.699	-0.745	-0.659	0.011	72	0.030	-0.538	-0.576	-0.495	0.010
5	0.040	-0.653	-0.689	-0.623	0.009	73	0.040	-0.541	-0.573	-0.503	0.009
6	0.050	-0.451	-0.484	-0.419	0.009	74	0.050	-0.584	-0.612	-0.552	0.008
7	0.075	-1.069	-1.085	-1.054	0.005	75	0.075	-1.236	-1.251	-1.219	0.004
8	0.100	-1.230	-1.244	-1.211	0.005	76	0.100	-1.156	-1.187	-1.050	0.012
9	0.150	-1.270	-1.297	-1.246	0.006	77	0.150	-0.752	-0.817	-0.694	0.014
10	0.200	-1.191	-1.220	-1.165	0.007	78	0.200	-0.642	-0.722	-0.586	0.017
11	0.250	-1.290	-1.333	-1.123	0.016	79	0.250	-0.426	-0.484	-0.377	0.015
12	0.300	-0.669	-1.055	-0.486	0.082	81	0.350	-0.279	-0.320	-0.239	0.012
13	0.350	-0.532	-0.624	-0.463	0.022	82	0.400	-0.241	-0.277	-0.204	0.010
14	0.400	-0.431	-0.491	-0.382	0.014	83	0.450	-0.306	-0.340	-0.273	0.010
15	0.450	-0.385	-0.436	-0.344	0.012	84	0.500	-0.178	-0.207	-0.150	0.009
16	0.500	-0.341	-0.381	-0.300	0.011	85	0.550	-0.135	-0.166	-0.107	0.009
62	0.550	-0.167	-0.201	-0.124	0.011	86	0.600	-0.207	-0.233	-0.179	0.008
18	0.600	-0.259	-0.292	-0.221	0.010	87	0.650	-0.061	-0.090	-0.032	0.008
63	0.650	-0.199	-0.225	-0.171	0.008	88	0.700	-0.165	-0.191	-0.138	0.008
20	0.700	-0.033	-0.064	0.002	0.011	89	0.750	-0.022	-0.048	0.004	0.007
21	0.750	-0.097	-0.131	-0.063	0.009	90	0.800	-0.077	-0.102	-0.052	0.008
22	0.800	-0.056	-0.087	-0.020	0.009	91	0.850	-0.061	-0.085	-0.035	0.007
66	0.850	0.128	0.097	0.156	0.008	92	0.900	0.075	0.051	0.099	0.007
25	0.950	0.257	0.229	0.284	0.007	93	0.950	0.211	0.186	0.237	0.008
26	1.000	0.253	0.231	0.275	0.006	94	1.000	0.027	0.009	0.048	0.005
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.768	0.737	0.796	0.009	95	0.010	0.693	0.664	0.729	0.009
28	0.020	0.508	0.472	0.542	0.010	96	0.020	0.289	0.256	0.323	0.010
						97	0.030	0.158	0.123	0.193	0.010
30	0.050	0.250	0.218	0.286	0.010	98	0.050	0.067	0.033	0.122	0.010
31	0.100	-0.054	-0.091	-0.014	0.010	99	0.100	-0.132	-0.170	-0.092	0.010
32	0.200	-0.232	-0.272	-0.187	0.012	100	0.200	-0.380	-0.419	-0.342	0.010
33	0.300	-0.381	-0.422	-0.332	0.012	101	0.300	-0.205	-0.239	-0.173	0.010
34	0.400	-0.311	-0.350	-0.273	0.010	102	0.400	-0.177	-0.208	-0.147	0.010
35	0.500	-0.142	-0.180	-0.109	0.009	103	0.500	-0.104	-0.131	-0.073	0.009
36	0.600	-0.093	-0.128	-0.060	0.009	104	0.600	-0.197	-0.223	-0.170	0.008
37	0.700	-0.023	-0.057	0.009	0.008	105	0.700	-0.146	-0.171	-0.121	0.008
38	0.800	-0.096	-0.124	-0.069	0.008	106	0.800	-0.105	-0.130	-0.080	0.008
						107	0.900	-0.019	-0.044	0.004	0.007
						108	0.950	0.112	0.089	0.136	0.006

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
646	0.75	140.8	4.98

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.942	0.914	0.967	0.007
2	0.010	-0.347	-0.391	-0.306	0.013
3	0.020	-0.774	-0.819	-0.732	0.012
4	0.030	-0.852	-0.906	-0.806	0.013
5	0.040	-0.780	-0.837	-0.737	0.013
6	0.050	-0.577	-0.632	-0.534	0.013
7	0.075	-1.071	-1.086	-1.058	0.005
8	0.100	-1.261	-1.275	-1.248	0.005
9	0.150	-1.346	-1.367	-1.326	0.005
10	0.200	-1.258	-1.275	-1.237	0.005
11	0.250	-1.390	-1.412	-1.361	0.007
12	0.300	-0.917	-1.237	-0.619	0.108
13	0.350	-0.645	-0.727	-0.544	0.026
14	0.400	-0.501	-0.576	-0.429	0.022
15	0.450	-0.415	-0.475	-0.367	0.016
16	0.500	-0.347	-0.386	-0.303	0.011
62	0.550	-0.165	-0.201	-0.124	0.010
18	0.600	-0.252	-0.288	-0.214	0.009
63	0.650	-0.192	-0.220	-0.163	0.007
20	0.700	-0.028	-0.064	0.005	0.011
21	0.750	-0.091	-0.125	-0.061	0.009
22	0.800	-0.051	-0.082	-0.018	0.009
66	0.850	0.128	0.103	0.153	0.008
25	0.950	0.251	0.221	0.276	0.007
26	1.000	0.247	0.225	0.270	0.006

Lower surface at ETA = 0.60

27	0.010	0.841	0.814	0.868	0.008
28	0.020	0.594	0.561	0.626	0.009
30	0.050	0.329	0.297	0.359	0.009
31	0.100	0.026	-0.004	0.064	0.009
32	0.200	-0.169	-0.202	-0.133	0.010
33	0.300	-0.334	-0.366	-0.295	0.010
34	0.400	-0.280	-0.312	-0.246	0.010
35	0.500	-0.123	-0.152	-0.088	0.009
36	0.600	-0.082	-0.108	-0.054	0.008
37	0.700	-0.019	-0.042	0.013	0.008
38	0.800	-0.095	-0.119	-0.067	0.007

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	0.980	0.960	1.004	0.007
70	0.010	-0.376	-0.421	-0.331	0.012
71	0.020	-0.579	-0.621	-0.535	0.012
72	0.030	-0.657	-0.699	-0.613	0.012
73	0.040	-0.635	-0.671	-0.596	0.010
74	0.050	-0.665	-0.699	-0.630	0.010
75	0.075	-1.246	-1.259	-1.231	0.004
76	0.100	-1.207	-1.224	-1.182	0.005
77	0.150	-0.847	-0.923	-0.770	0.022
78	0.200	-0.720	-0.797	-0.621	0.025
79	0.250	-0.463	-0.528	-0.402	0.017
81	0.350	-0.297	-0.340	-0.256	0.012
82	0.400	-0.255	-0.294	-0.213	0.011
83	0.450	-0.317	-0.350	-0.278	0.010
84	0.500	-0.190	-0.222	-0.153	0.009
85	0.550	-0.146	-0.176	-0.108	0.009
86	0.600	-0.216	-0.244	-0.178	0.008
87	0.650	-0.072	-0.097	-0.034	0.008
88	0.700	-0.174	-0.202	-0.139	0.008
89	0.750	-0.036	-0.062	-0.004	0.007
90	0.800	-0.094	-0.119	-0.066	0.008
91	0.850	-0.080	-0.104	-0.056	0.007
92	0.900	0.052	0.027	0.076	0.007
93	0.950	0.188	0.166	0.217	0.007
94	1.000	0.021	0.004	0.048	0.005

Lower surface at ETA = 0.95

95	0.010	0.761	0.727	0.790	0.009
96	0.020	0.364	0.330	0.397	0.009
97	0.030	0.242	0.209	0.277	0.009
98	0.050	0.135	0.105	0.170	0.009
99	0.100	-0.076	-0.108	-0.034	0.010
100	0.200	-0.347	-0.379	-0.316	0.010
101	0.300	-0.190	-0.225	-0.159	0.010
102	0.400	-0.170	-0.202	-0.138	0.009
103	0.500	-0.103	-0.137	-0.073	0.009
104	0.600	-0.200	-0.227	-0.170	0.008
105	0.700	-0.151	-0.177	-0.123	0.008
106	0.800	-0.112	-0.135	-0.085	0.007
107	0.900	-0.027	-0.052	-0.004	0.007
108	0.950	0.102	0.080	0.124	0.006

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
647	0.75	139.9	6.00

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.886	0.857	0.917	0.008	69	0.000	0.939	0.914	0.968	0.008
2	0.010	-0.488	-0.537	-0.439	0.013	70	0.010	-0.499	-0.546	-0.454	0.012
3	0.020	-0.920	-0.966	-0.870	0.012	71	0.020	-0.711	-0.750	-0.666	0.012
4	0.030	-1.022	-1.069	-0.974	0.012	72	0.030	-0.802	-0.844	-0.752	0.014
5	0.040	-1.021	-1.075	-0.943	0.016	73	0.040	-0.772	-0.823	-0.718	0.016
6	0.050	-0.802	-0.855	-0.729	0.017	74	0.050	-0.790	-0.841	-0.735	0.015
7	0.075	-1.077	-1.148	-1.060	0.008	75	0.075	-1.256	-1.271	-1.237	0.005
8	0.100	-1.275	-1.291	-1.254	0.005	76	0.100	-1.239	-1.252	-1.225	0.004
9	0.150	-1.412	-1.430	-1.395	0.005	77	0.150	-0.945	-1.014	-0.864	0.021
10	0.200	-1.322	-1.346	-1.303	0.006	78	0.200	-0.774	-0.849	-0.692	0.022
11	0.250	-1.451	-1.479	-1.024	0.026	79	0.250	-0.496	-0.577	-0.428	0.020
12	0.300	-0.762	-1.106	-0.616	0.060	81	0.350	-0.312	-0.358	-0.263	0.013
13	0.350	-0.697	-0.776	-0.611	0.025	82	0.400	-0.267	-0.304	-0.223	0.012
14	0.400	-0.578	-0.662	-0.489	0.026	83	0.450	-0.329	-0.362	-0.290	0.010
15	0.450	-0.491	-0.578	-0.409	0.024	84	0.500	-0.202	-0.232	-0.167	0.010
16	0.500	-0.409	-0.485	-0.336	0.019	85	0.550	-0.157	-0.189	-0.123	0.009
62	0.550	-0.211	-0.285	-0.149	0.016	86	0.600	-0.226	-0.254	-0.195	0.009
18	0.600	-0.283	-0.345	-0.223	0.013	87	0.650	-0.083	-0.111	-0.054	0.008
63	0.650	-0.214	-0.257	-0.173	0.010	88	0.700	-0.187	-0.218	-0.160	0.008
20	0.700	-0.049	-0.105	0.001	0.012	89	0.750	-0.054	-0.083	-0.024	0.008
21	0.750	-0.104	-0.160	-0.065	0.011	90	0.800	-0.113	-0.143	-0.085	0.008
22	0.800	-0.063	-0.111	-0.027	0.011	91	0.850	-0.102	-0.131	-0.075	0.008
66	0.850	0.113	0.065	0.145	0.010	92	0.900	0.025	-0.003	0.052	0.007
25	0.950	0.230	0.177	0.260	0.010	93	0.950	0.182	0.153	0.219	0.007
26	1.000	0.221	0.169	0.250	0.010	94	1.000	0.013	-0.007	0.048	0.006
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.912	0.883	0.938	0.007	95	0.010	0.829	0.801	0.862	0.008
28	0.020	0.675	0.645	0.707	0.009	96	0.020	0.439	0.408	0.472	0.009
						97	0.030	0.324	0.296	0.362	0.009
30	0.050	0.401	0.374	0.434	0.008	98	0.050	0.199	0.169	0.233	0.009
31	0.100	0.101	0.075	0.137	0.010	99	0.100	-0.026	-0.058	0.023	0.009
32	0.200	-0.119	-0.152	-0.074	0.010	100	0.200	-0.321	-0.352	-0.280	0.010
33	0.300	-0.297	-0.330	-0.256	0.011	101	0.300	-0.177	-0.209	-0.141	0.010
34	0.400	-0.258	-0.295	-0.218	0.010	102	0.400	-0.166	-0.196	-0.132	0.009
35	0.500	-0.113	-0.145	-0.078	0.010	103	0.500	-0.106	-0.134	-0.074	0.009
36	0.600	-0.081	-0.113	-0.047	0.009	104	0.600	-0.205	-0.232	-0.174	0.008
37	0.700	-0.026	-0.055	0.011	0.009	105	0.700	-0.159	-0.184	-0.127	0.008
38	0.800	-0.106	-0.138	-0.076	0.009	106	0.800	-0.121	-0.145	-0.093	0.008
						107	0.900	-0.036	-0.064	-0.011	0.007
						108	0.950	0.092	0.067	0.114	0.007

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
648	0.70	139.7	0.03

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.087	1.066	1.105	0.005
2	0.010	0.314	0.270	0.363	0.012
3	0.020	-0.123	-0.165	-0.074	0.012
4	0.030	-0.244	-0.282	-0.199	0.011
5	0.040	-0.295	-0.327	-0.249	0.010
6	0.050	-0.165	-0.198	-0.127	0.010
7	0.075	-0.507	-0.566	-0.442	0.016
8	0.100	-0.555	-0.591	-0.512	0.011
9	0.150	-0.586	-0.622	-0.546	0.011
10	0.200	-0.482	-0.519	-0.447	0.011
11	0.250	-0.534	-0.568	-0.501	0.010
12	0.300	-0.398	-0.432	-0.362	0.010
13	0.350	-0.443	-0.473	-0.409	0.009
14	0.400	-0.385	-0.417	-0.350	0.009
15	0.450	-0.351	-0.381	-0.318	0.008
16	0.500	-0.317	-0.347	-0.285	0.008
62	0.550	-0.153	-0.183	-0.122	0.009
18	0.600	-0.248	-0.278	-0.219	0.008
63	0.650	-0.194	-0.219	-0.173	0.007
20	0.700	-0.040	-0.069	-0.009	0.009
21	0.750	-0.104	-0.134	-0.077	0.008
22	0.800	-0.067	-0.100	-0.040	0.008
66	0.850	0.109	0.083	0.132	0.007
25	0.950	0.240	0.210	0.265	0.007
26	1.000	0.250	0.230	0.268	0.005

Lower surface at ETA = 0.60

27	0.010	0.293	0.248	0.333	0.011
28	0.020	0.003	-0.044	0.044	0.012
30	0.050	-0.165	-0.199	-0.131	0.010
31	0.100	-0.430	-0.466	-0.394	0.011
32	0.200	-0.466	-0.505	-0.430	0.011
33	0.300	-0.517	-0.550	-0.485	0.010
34	0.400	-0.393	-0.421	-0.361	0.009
35	0.500	-0.195	-0.225	-0.168	0.009
36	0.600	-0.126	-0.159	-0.099	0.008
37	0.700	-0.040	-0.073	-0.016	0.007
38	0.800	-0.097	-0.129	-0.074	0.007

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.091	1.073	1.109	0.005
70	0.010	0.180	0.138	0.215	0.011
71	0.020	-0.019	-0.062	0.018	0.011
72	0.030	-0.144	-0.184	-0.111	0.010
73	0.040	-0.215	-0.254	-0.182	0.010
74	0.050	-0.330	-0.365	-0.298	0.009
75	0.075	-0.514	-0.556	-0.479	0.011
76	0.100	-0.487	-0.522	-0.453	0.010
77	0.150	-0.489	-0.520	-0.459	0.009
78	0.200	-0.443	-0.471	-0.415	0.009
79	0.250	-0.289	-0.318	-0.262	0.008
81	0.350	-0.205	-0.228	-0.176	0.008
82	0.400	-0.186	-0.211	-0.158	0.008
83	0.450	-0.259	-0.283	-0.234	0.007
84	0.500	-0.143	-0.168	-0.119	0.007
85	0.550	-0.107	-0.132	-0.082	0.007
86	0.600	-0.180	-0.207	-0.157	0.007
87	0.650	-0.043	-0.069	-0.019	0.007
88	0.700	-0.145	-0.172	-0.122	0.007
89	0.750	-0.008	-0.034	0.014	0.006
90	0.800	-0.058	-0.082	-0.035	0.007
91	0.850	-0.036	-0.062	-0.014	0.006
92	0.900	0.105	0.080	0.126	0.006
93	0.950	0.257	0.232	0.280	0.007
94	1.000	0.018	-0.002	0.048	0.005

Lower surface at ETA = 0.95

95	0.010	0.294	0.252	0.332	0.011
96	0.020	-0.117	-0.155	-0.080	0.011
97	0.030	-0.220	-0.258	-0.184	0.011
98	0.050	-0.248	-0.281	-0.219	0.009
99	0.100	-0.344	-0.375	-0.314	0.009
100	0.200	-0.468	-0.497	-0.437	0.009
101	0.300	-0.245	-0.272	-0.217	0.008
102	0.400	-0.188	-0.215	-0.163	0.008
103	0.500	-0.097	-0.124	-0.068	0.008
104	0.600	-0.174	-0.201	-0.152	0.007
105	0.700	-0.115	-0.144	-0.091	0.007
106	0.800	-0.068	-0.095	-0.045	0.007
107	0.900	0.020	-0.006	0.044	0.007
108	0.950	0.140	0.118	0.162	0.006

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
649	0.70	139.8	1.04

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.083	1.065	1.098	0.005	69	0.000	1.086	1.066	1.103	0.005
2	0.010	0.152	0.111	0.193	0.013	70	0.010	0.061	0.022	0.102	0.012
3	0.020	-0.277	-0.320	-0.236	0.012	71	0.020	-0.137	-0.173	-0.099	0.011
4	0.030	-0.389	-0.427	-0.350	0.011	72	0.030	-0.249	-0.284	-0.213	0.010
5	0.040	-0.424	-0.458	-0.387	0.010	73	0.040	-0.309	-0.342	-0.277	0.010
6	0.050	-0.274	-0.305	-0.244	0.009	74	0.050	-0.411	-0.441	-0.380	0.009
7	0.075	-0.694	-0.752	-0.632	0.017	75	0.075	-0.609	-0.648	-0.566	0.012
8	0.100	-0.670	-0.708	-0.629	0.012	76	0.100	-0.549	-0.583	-0.512	0.010
9	0.150	-0.681	-0.720	-0.643	0.012	77	0.150	-0.534	-0.565	-0.502	0.009
10	0.200	-0.555	-0.596	-0.517	0.011	78	0.200	-0.475	-0.506	-0.443	0.009
11	0.250	-0.588	-0.625	-0.557	0.011	79	0.250	-0.312	-0.341	-0.285	0.009
12	0.300	-0.440	-0.476	-0.406	0.010	81	0.350	-0.218	-0.247	-0.190	0.008
13	0.350	-0.475	-0.509	-0.445	0.009	82	0.400	-0.195	-0.223	-0.169	0.008
14	0.400	-0.410	-0.442	-0.382	0.009	83	0.450	-0.265	-0.293	-0.239	0.007
15	0.450	-0.372	-0.400	-0.343	0.009	84	0.500	-0.147	-0.174	-0.123	0.007
16	0.500	-0.333	-0.363	-0.304	0.008	85	0.550	-0.109	-0.135	-0.082	0.007
62	0.550	-0.165	-0.191	-0.136	0.008	86	0.600	-0.180	-0.206	-0.154	0.007
18	0.600	-0.256	-0.281	-0.228	0.008	87	0.650	-0.042	-0.067	-0.018	0.007
63	0.650	-0.200	-0.220	-0.180	0.007	88	0.700	-0.143	-0.166	-0.120	0.007
20	0.700	-0.043	-0.069	-0.011	0.008	89	0.750	-0.005	-0.025	0.018	0.007
21	0.750	-0.105	-0.135	-0.076	0.008	90	0.800	-0.055	-0.076	-0.032	0.007
22	0.800	-0.066	-0.098	-0.036	0.009	91	0.850	-0.033	-0.053	-0.010	0.006
66	0.850	0.111	0.088	0.137	0.007	92	0.900	0.108	0.087	0.129	0.006
25	0.950	0.243	0.214	0.267	0.006	93	0.950	0.261	0.236	0.280	0.006
26	1.000	0.249	0.231	0.269	0.005	94	1.000	0.020	0.001	0.048	0.005
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.437	0.399	0.477	0.011	95	0.010	0.404	0.371	0.437	0.011
28	0.020	0.150	0.108	0.193	0.012	96	0.020	-0.005	-0.040	0.032	0.011
						97	0.030	-0.106	-0.141	-0.069	0.010
30	0.050	-0.056	-0.094	-0.013	0.009	98	0.050	-0.165	-0.194	-0.130	0.009
31	0.100	-0.323	-0.358	-0.286	0.010	99	0.100	-0.287	-0.315	-0.254	0.009
32	0.200	-0.398	-0.439	-0.360	0.010	100	0.200	-0.437	-0.469	-0.407	0.008
33	0.300	-0.476	-0.508	-0.444	0.010	101	0.300	-0.229	-0.258	-0.202	0.008
34	0.400	-0.367	-0.394	-0.337	0.008	102	0.400	-0.180	-0.207	-0.153	0.008
35	0.500	-0.179	-0.206	-0.151	0.008	103	0.500	-0.095	-0.122	-0.068	0.008
36	0.600	-0.117	-0.142	-0.089	0.008	104	0.600	-0.176	-0.199	-0.153	0.007
37	0.700	-0.036	-0.059	-0.010	0.007	105	0.700	-0.120	-0.142	-0.095	0.007
38	0.800	-0.098	-0.120	-0.076	0.007	106	0.800	-0.075	-0.097	-0.054	0.007
						107	0.900	0.010	-0.009	0.032	0.006
						108	0.950	0.132	0.114	0.152	0.006

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
650	0.70	140.2	2.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.053	1.032	1.074	0.006
2	0.010	-0.024	-0.068	0.019	0.013
3	0.020	-0.447	-0.493	-0.407	0.013
4	0.030	-0.543	-0.583	-0.504	0.011
5	0.040	-0.556	-0.588	-0.520	0.009
6	0.050	-0.383	-0.411	-0.356	0.008
7	0.075	-1.016	-1.155	-0.870	0.039
8	0.100	-0.786	-0.817	-0.747	0.011
9	0.150	-0.781	-0.825	-0.730	0.014
10	0.200	-0.628	-0.669	-0.581	0.013
11	0.250	-0.641	-0.678	-0.601	0.011
12	0.300	-0.479	-0.519	-0.441	0.011
13	0.350	-0.505	-0.540	-0.469	0.010
14	0.400	-0.432	-0.468	-0.399	0.009
15	0.450	-0.389	-0.421	-0.357	0.008
16	0.500	-0.346	-0.375	-0.316	0.008
62	0.550	-0.174	-0.207	-0.142	0.008
18	0.600	-0.263	-0.293	-0.234	0.008
63	0.650	-0.205	-0.226	-0.181	0.007
20	0.700	-0.046	-0.076	-0.016	0.008
21	0.750	-0.105	-0.137	-0.076	0.008
22	0.800	-0.065	-0.095	-0.038	0.008
66	0.850	0.114	0.088	0.141	0.007
25	0.950	0.244	0.222	0.268	0.006
26	1.000	0.246	0.227	0.266	0.005

Lower surface at ETA = 0.60

27	0.010	0.568	0.534	0.603	0.010
28	0.020	0.287	0.249	0.321	0.010
30	0.050	0.061	0.025	0.092	0.009
31	0.100	-0.218	-0.250	-0.184	0.009
32	0.200	-0.327	-0.359	-0.286	0.010
33	0.300	-0.430	-0.466	-0.394	0.009
34	0.400	-0.338	-0.370	-0.300	0.009
35	0.500	-0.161	-0.194	-0.129	0.008
36	0.600	-0.105	-0.135	-0.074	0.008
37	0.700	-0.031	-0.057	-0.007	0.007
38	0.800	-0.098	-0.127	-0.074	0.007

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.065	1.042	1.082	0.005
70	0.010	-0.072	-0.116	-0.027	0.012
71	0.020	-0.266	-0.308	-0.225	0.012
72	0.030	-0.365	-0.400	-0.328	0.011
73	0.040	-0.411	-0.444	-0.376	0.010
74	0.050	-0.495	-0.525	-0.462	0.009
75	0.075	-0.723	-0.775	-0.673	0.015
76	0.100	-0.613	-0.646	-0.572	0.011
77	0.150	-0.579	-0.607	-0.542	0.009
78	0.200	-0.506	-0.534	-0.473	0.009
79	0.250	-0.335	-0.362	-0.300	0.009
81	0.350	-0.230	-0.259	-0.199	0.008
82	0.400	-0.203	-0.232	-0.178	0.008
83	0.450	-0.271	-0.297	-0.243	0.007
84	0.500	-0.152	-0.178	-0.126	0.007
85	0.550	-0.112	-0.138	-0.086	0.007
86	0.600	-0.182	-0.208	-0.156	0.007
87	0.650	-0.044	-0.068	-0.018	0.007
88	0.700	-0.144	-0.169	-0.121	0.007
89	0.750	-0.006	-0.030	0.018	0.006
90	0.800	-0.057	-0.083	-0.037	0.007
91	0.850	-0.036	-0.062	-0.014	0.006
92	0.900	0.101	0.079	0.123	0.006
93	0.950	0.260	0.239	0.281	0.006
94	1.000	0.024	0.006	0.048	0.005

Lower surface at ETA = 0.95

95	0.010	0.510	0.478	0.543	0.010
96	0.020	0.103	0.069	0.136	0.010
97	0.030	0.005	-0.028	0.039	0.010
98	0.050	-0.081	-0.111	-0.049	0.009
99	0.100	-0.226	-0.257	-0.190	0.008
100	0.200	-0.404	-0.432	-0.374	0.008
101	0.300	-0.212	-0.241	-0.179	0.008
102	0.400	-0.171	-0.197	-0.140	0.008
103	0.500	-0.093	-0.118	-0.062	0.008
104	0.600	-0.178	-0.201	-0.153	0.007
105	0.700	-0.125	-0.148	-0.100	0.007
106	0.800	-0.084	-0.111	-0.064	0.007
107	0.900	-0.001	-0.023	0.020	0.006
108	0.950	0.123	0.103	0.141	0.006

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
651	0.70	139.6	4.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.951	0.922	0.978	0.007	69	0.000	0.996	0.971	1.017	0.007
2	0.010	-0.380	-0.424	-0.327	0.013	70	0.010	-0.355	-0.400	-0.307	0.013
3	0.020	-0.797	-0.845	-0.745	0.014	71	0.020	-0.546	-0.590	-0.501	0.013
4	0.030	-0.856	-0.899	-0.808	0.012	72	0.030	-0.612	-0.654	-0.570	0.012
5	0.040	-0.802	-0.836	-0.768	0.010	73	0.040	-0.618	-0.654	-0.585	0.010
6	0.050	-0.601	-0.638	-0.567	0.010	74	0.050	-0.666	-0.697	-0.634	0.009
7	0.075	-1.298	-1.316	-1.282	0.005	75	0.075	-1.228	-1.339	-1.093	0.037
8	0.100	-1.428	-1.447	-1.407	0.006	76	0.100	-0.742	-0.776	-0.706	0.010
9	0.150	-1.225	-1.412	-0.867	0.111	77	0.150	-0.669	-0.704	-0.639	0.010
10	0.200	-0.687	-0.747	-0.635	0.015	78	0.200	-0.570	-0.606	-0.541	0.009
11	0.250	-0.706	-0.751	-0.661	0.012	79	0.250	-0.383	-0.413	-0.354	0.009
12	0.300	-0.534	-0.574	-0.487	0.011	81	0.350	-0.259	-0.288	-0.228	0.009
13	0.350	-0.549	-0.583	-0.507	0.010	82	0.400	-0.227	-0.254	-0.198	0.008
14	0.400	-0.468	-0.497	-0.427	0.010	83	0.450	-0.291	-0.314	-0.263	0.008
15	0.450	-0.417	-0.445	-0.380	0.009	84	0.500	-0.169	-0.194	-0.142	0.007
16	0.500	-0.367	-0.396	-0.332	0.009	85	0.550	-0.128	-0.154	-0.099	0.008
62	0.550	-0.190	-0.217	-0.154	0.008	86	0.600	-0.197	-0.222	-0.173	0.007
18	0.600	-0.274	-0.302	-0.244	0.008	87	0.650	-0.059	-0.082	-0.032	0.007
63	0.650	-0.213	-0.234	-0.187	0.007	88	0.700	-0.159	-0.182	-0.133	0.007
20	0.700	-0.050	-0.078	-0.014	0.008	89	0.750	-0.022	-0.044	0.001	0.006
21	0.750	-0.106	-0.135	-0.078	0.008	90	0.800	-0.073	-0.095	-0.051	0.007
22	0.800	-0.063	-0.094	-0.033	0.008	91	0.850	-0.057	-0.078	-0.034	0.006
66	0.850	0.118	0.094	0.143	0.007	92	0.900	0.073	0.053	0.094	0.006
25	0.950	0.247	0.221	0.274	0.006	93	0.950	0.227	0.200	0.252	0.007
26	1.000	0.242	0.222	0.260	0.005	94	1.000	0.022	0.001	0.048	0.005
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.780	0.751	0.810	0.008	95	0.010	0.692	0.656	0.726	0.009
28	0.020	0.517	0.485	0.555	0.009	96	0.020	0.292	0.257	0.330	0.010
						97	0.030	0.196	0.165	0.232	0.009
30	0.050	0.252	0.225	0.285	0.009	98	0.050	0.072	0.040	0.105	0.009
31	0.100	-0.037	-0.064	-0.008	0.008	99	0.100	-0.113	-0.142	-0.082	0.008
32	0.200	-0.199	-0.229	-0.166	0.009	100	0.200	-0.343	-0.370	-0.319	0.008
33	0.300	-0.342	-0.370	-0.308	0.008	101	0.300	-0.179	-0.204	-0.153	0.008
34	0.400	-0.279	-0.303	-0.249	0.008	102	0.400	-0.155	-0.180	-0.130	0.008
35	0.500	-0.122	-0.148	-0.097	0.009	103	0.500	-0.089	-0.112	-0.066	0.008
36	0.600	-0.081	-0.103	-0.053	0.007	104	0.600	-0.181	-0.203	-0.159	0.007
37	0.700	-0.017	-0.039	0.011	0.007	105	0.700	-0.136	-0.158	-0.113	0.007
38	0.800	-0.093	-0.116	-0.072	0.007	106	0.800	-0.100	-0.122	-0.079	0.007
						107	0.900	-0.018	-0.037	0.003	0.006
						108	0.950	0.107	0.086	0.128	0.006

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
652	0.60	137.7	0.03

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.058	1.043	1.070	0.004
2	0.010	0.248	0.206	0.300	0.012
3	0.020	-0.162	-0.203	-0.109	0.011
4	0.030	-0.271	-0.308	-0.227	0.011
5	0.040	-0.316	-0.350	-0.278	0.010
6	0.050	-0.201	-0.231	-0.168	0.008
7	0.075	-0.409	-0.443	-0.376	0.010
8	0.100	-0.500	-0.526	-0.475	0.007
9	0.150	-0.508	-0.532	-0.486	0.007
10	0.200	-0.414	-0.434	-0.390	0.006
11	0.250	-0.461	-0.481	-0.440	0.006
12	0.300	-0.345	-0.363	-0.320	0.006
13	0.350	-0.388	-0.409	-0.366	0.005
14	0.400	-0.341	-0.359	-0.320	0.006
15	0.450	-0.313	-0.331	-0.295	0.006
16	0.500	-0.285	-0.304	-0.267	0.006
62	0.550	-0.139	-0.160	-0.122	0.005
18	0.600	-0.223	-0.243	-0.205	0.005
63	0.650	-0.176	-0.193	-0.160	0.005
20	0.700	-0.043	-0.062	-0.021	0.006
21	0.750	-0.096	-0.118	-0.080	0.006
22	0.800	-0.062	-0.084	-0.043	0.006
66	0.850	0.093	0.074	0.111	0.005
25	0.950	0.214	0.193	0.235	0.008
26	1.000	0.241	0.227	0.255	0.004

Lower surface at ETA = 0.60

27	0.010	0.236	0.190	0.278	0.012
28	0.020	-0.044	-0.097	-0.003	0.012
30	0.050	-0.196	-0.226	-0.165	0.009
31	0.100	-0.382	-0.409	-0.355	0.007
32	0.200	-0.399	-0.424	-0.377	0.006
33	0.300	-0.452	-0.474	-0.432	0.006
34	0.400	-0.347	-0.366	-0.326	0.006
35	0.500	-0.176	-0.197	-0.160	0.006
36	0.600	-0.116	-0.134	-0.097	0.006
37	0.700	-0.039	-0.054	-0.023	0.005
38	0.800	-0.089	-0.105	-0.073	0.005

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.064	1.048	1.079	0.004
70	0.010	0.138	0.094	0.175	0.012
71	0.020	-0.055	-0.094	-0.018	0.011
72	0.030	-0.165	-0.196	-0.135	0.009
73	0.040	-0.227	-0.256	-0.197	0.009
74	0.050	-0.330	-0.355	-0.299	0.008
75	0.075	-0.445	-0.470	-0.416	0.008
76	0.100	-0.435	-0.459	-0.409	0.007
77	0.150	-0.434	-0.454	-0.412	0.006
78	0.200	-0.393	-0.414	-0.370	0.006
79	0.250	-0.257	-0.276	-0.238	0.006
81	0.350	-0.183	-0.203	-0.165	0.006
82	0.400	-0.167	-0.185	-0.149	0.005
83	0.450	-0.230	-0.249	-0.213	0.005
84	0.500	-0.129	-0.145	-0.111	0.005
85	0.550	-0.097	-0.113	-0.080	0.005
86	0.600	-0.160	-0.178	-0.143	0.005
87	0.650	-0.040	-0.056	-0.023	0.005
88	0.700	-0.129	-0.145	-0.112	0.005
89	0.750	-0.007	-0.022	0.010	0.005
90	0.800	-0.051	-0.067	-0.033	0.005
91	0.850	-0.030	-0.044	-0.012	0.005
92	0.900	0.095	0.080	0.110	0.005
93	0.950	0.214	0.197	0.232	0.005
94	1.000	0.020	0.006	0.049	0.004

Lower surface at ETA = 0.95

95	0.010	0.244	0.204	0.289	0.011
96	0.020	-0.137	-0.169	-0.094	0.011
97	0.030	-0.214	-0.246	-0.176	0.010
98	0.050	-0.243	-0.269	-0.215	0.008
99	0.100	-0.309	-0.331	-0.287	0.006
100	0.200	-0.411	-0.429	-0.389	0.006
101	0.300	-0.217	-0.235	-0.197	0.005
102	0.400	-0.167	-0.185	-0.148	0.005
103	0.500	-0.089	-0.106	-0.071	0.005
104	0.600	-0.154	-0.170	-0.137	0.005
105	0.700	-0.102	-0.118	-0.084	0.005
106	0.800	-0.062	-0.078	-0.043	0.005
107	0.900	0.023	0.008	0.038	0.005
108	0.950	0.131	0.117	0.146	0.004

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
653	0.60	138.1	1.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.048	1.035	1.065	0.004	69	0.000	1.054	1.035	1.071	0.005
2	0.010	0.057	0.008	0.111	0.014	70	0.010	0.007	-0.040	0.046	0.012
3	0.020	-0.335	-0.380	-0.288	0.013	71	0.020	-0.181	-0.220	-0.146	0.011
4	0.030	-0.429	-0.469	-0.390	0.012	72	0.030	-0.273	-0.308	-0.240	0.010
5	0.040	-0.459	-0.492	-0.421	0.011	73	0.040	-0.323	-0.351	-0.293	0.009
6	0.050	-0.330	-0.360	-0.296	0.009	74	0.050	-0.412	-0.441	-0.383	0.008
7	0.075	-0.544	-0.576	-0.507	0.010	75	0.075	-0.515	-0.539	-0.486	0.008
8	0.100	-0.598	-0.623	-0.568	0.008	76	0.100	-0.489	-0.512	-0.463	0.007
9	0.150	-0.584	-0.607	-0.554	0.007	77	0.150	-0.471	-0.494	-0.448	0.006
10	0.200	-0.475	-0.498	-0.444	0.006	78	0.200	-0.421	-0.440	-0.397	0.006
11	0.250	-0.509	-0.526	-0.480	0.006	79	0.250	-0.279	-0.296	-0.257	0.005
12	0.300	-0.385	-0.403	-0.358	0.006	81	0.350	-0.197	-0.216	-0.176	0.006
13	0.350	-0.419	-0.436	-0.395	0.006	82	0.400	-0.176	-0.194	-0.156	0.005
14	0.400	-0.365	-0.384	-0.342	0.006	83	0.450	-0.235	-0.253	-0.216	0.005
15	0.450	-0.333	-0.351	-0.310	0.005	84	0.500	-0.133	-0.150	-0.116	0.005
16	0.500	-0.302	-0.321	-0.277	0.006	85	0.550	-0.100	-0.115	-0.080	0.005
62	0.550	-0.155	-0.174	-0.131	0.006	86	0.600	-0.160	-0.177	-0.141	0.005
18	0.600	-0.233	-0.255	-0.213	0.006	87	0.650	-0.040	-0.056	-0.023	0.005
63	0.650	-0.184	-0.201	-0.168	0.004	88	0.700	-0.126	-0.147	-0.108	0.005
20	0.700	-0.050	-0.072	-0.029	0.005	89	0.750	-0.006	-0.020	0.011	0.005
21	0.750	-0.099	-0.120	-0.076	0.006	90	0.800	-0.047	-0.065	-0.031	0.005
22	0.800	-0.063	-0.083	-0.043	0.006	91	0.850	-0.026	-0.042	-0.009	0.005
66	0.850	0.092	0.072	0.112	0.005	92	0.900	0.096	0.081	0.114	0.005
25	0.950	0.214	0.193	0.237	0.008	93	0.950	0.215	0.198	0.233	0.005
26	1.000	0.239	0.224	0.254	0.004	94	1.000	0.023	0.008	0.049	0.004
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.397	0.357	0.433	0.011	95	0.010	0.364	0.328	0.400	0.011
28	0.020	0.116	0.078	0.150	0.011	96	0.020	-0.018	-0.053	0.017	0.011
						97	0.030	-0.094	-0.124	-0.061	0.010
30	0.050	-0.078	-0.108	-0.054	0.008	98	0.050	-0.161	-0.188	-0.130	0.008
31	0.100	-0.285	-0.315	-0.265	0.007	99	0.100	-0.256	-0.277	-0.233	0.006
32	0.200	-0.338	-0.362	-0.316	0.006	100	0.200	-0.379	-0.399	-0.359	0.006
33	0.300	-0.410	-0.434	-0.387	0.006	101	0.300	-0.202	-0.220	-0.183	0.005
34	0.400	-0.317	-0.338	-0.297	0.006	102	0.400	-0.159	-0.177	-0.140	0.005
35	0.500	-0.159	-0.176	-0.139	0.005	103	0.500	-0.085	-0.104	-0.067	0.006
36	0.600	-0.105	-0.124	-0.087	0.005	104	0.600	-0.154	-0.168	-0.135	0.005
37	0.700	-0.034	-0.052	-0.012	0.005	105	0.700	-0.105	-0.123	-0.088	0.005
38	0.800	-0.086	-0.103	-0.070	0.005	106	0.800	-0.068	-0.085	-0.045	0.005
						107	0.900	0.014	0.000	0.034	0.005
						108	0.950	0.123	0.107	0.138	0.004

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
654	0.60	138.3	2.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.012	0.995	1.030	0.005
2	0.010	-0.140	-0.192	-0.085	0.015
3	0.020	-0.517	-0.571	-0.470	0.014
4	0.030	-0.593	-0.643	-0.550	0.012
5	0.040	-0.605	-0.646	-0.567	0.011
6	0.050	-0.460	-0.496	-0.423	0.009
7	0.075	-0.685	-0.729	-0.645	0.011
8	0.100	-0.696	-0.730	-0.667	0.008
9	0.150	-0.659	-0.685	-0.634	0.008
10	0.200	-0.534	-0.558	-0.510	0.007
11	0.250	-0.553	-0.579	-0.531	0.007
12	0.300	-0.423	-0.444	-0.401	0.007
13	0.350	-0.448	-0.467	-0.428	0.006
14	0.400	-0.389	-0.407	-0.369	0.006
15	0.450	-0.352	-0.372	-0.333	0.006
16	0.500	-0.316	-0.335	-0.297	0.006
62	0.550	-0.169	-0.187	-0.147	0.006
18	0.600	-0.243	-0.261	-0.224	0.006
63	0.650	-0.190	-0.207	-0.175	0.005
20	0.700	-0.057	-0.075	-0.032	0.005
21	0.750	-0.102	-0.125	-0.083	0.006
22	0.800	-0.064	-0.088	-0.040	0.006
66	0.850	0.091	0.074	0.110	0.005
25	0.950	0.214	0.190	0.237	0.008
26	1.000	0.237	0.219	0.251	0.004

Lower surface at ETA = 0.60

27	0.010	0.534	0.498	0.569	0.010
28	0.020	0.256	0.220	0.291	0.011
30	0.050	0.035	0.006	0.065	0.009
31	0.100	-0.198	-0.226	-0.173	0.007
32	0.200	-0.280	-0.306	-0.253	0.006
33	0.300	-0.368	-0.389	-0.347	0.006
34	0.400	-0.290	-0.308	-0.268	0.006
35	0.500	-0.143	-0.159	-0.120	0.005
36	0.600	-0.094	-0.112	-0.077	0.005
37	0.700	-0.028	-0.048	-0.011	0.005
38	0.800	-0.083	-0.105	-0.065	0.005

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.031	1.016	1.051	0.005
70	0.010	-0.129	-0.176	-0.086	0.013
71	0.020	-0.306	-0.345	-0.268	0.011
72	0.030	-0.382	-0.417	-0.347	0.010
73	0.040	-0.420	-0.452	-0.388	0.009
74	0.050	-0.494	-0.524	-0.464	0.008
75	0.075	-0.587	-0.614	-0.560	0.008
76	0.100	-0.541	-0.566	-0.518	0.007
77	0.150	-0.507	-0.530	-0.479	0.006
78	0.200	-0.446	-0.469	-0.425	0.006
79	0.250	-0.300	-0.321	-0.283	0.006
81	0.350	-0.209	-0.230	-0.190	0.006
82	0.400	-0.186	-0.203	-0.169	0.005
83	0.450	-0.241	-0.260	-0.223	0.005
84	0.500	-0.138	-0.159	-0.122	0.005
85	0.550	-0.104	-0.122	-0.083	0.005
86	0.600	-0.162	-0.180	-0.144	0.005
87	0.650	-0.043	-0.061	-0.026	0.005
88	0.700	-0.127	-0.146	-0.110	0.005
89	0.750	-0.008	-0.024	0.008	0.005
90	0.800	-0.048	-0.068	-0.031	0.005
91	0.850	-0.028	-0.045	-0.010	0.005
92	0.900	0.091	0.074	0.107	0.004
93	0.950	0.199	0.182	0.221	0.005
94	1.000	0.026	0.011	0.049	0.004

Lower surface at ETA = 0.95

95	0.010	0.469	0.437	0.500	0.010
96	0.020	0.088	0.053	0.121	0.009
97	0.030	0.011	-0.022	0.042	0.009
98	0.050	-0.084	-0.112	-0.060	0.007
99	0.100	-0.204	-0.225	-0.181	0.006
100	0.200	-0.349	-0.368	-0.329	0.005
101	0.300	-0.187	-0.206	-0.168	0.005
102	0.400	-0.151	-0.172	-0.133	0.005
103	0.500	-0.084	-0.104	-0.067	0.005
104	0.600	-0.153	-0.172	-0.134	0.005
105	0.700	-0.108	-0.127	-0.091	0.005
106	0.800	-0.074	-0.094	-0.056	0.005
107	0.900	0.006	-0.013	0.025	0.005
108	0.950	0.115	0.097	0.130	0.004

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
655	0.60	137.9	4.01

The data was adjusted using wind-off zero 551

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
		Upper surface at ETA = 0.60			
1	0.000	0.861	0.827	0.895	0.009
2	0.010	-0.610	-0.665	-0.546	0.018
3	0.020	-0.953	-1.005	-0.895	0.016
4	0.030	-0.978	-1.025	-0.930	0.014
5	0.040	-0.939	-0.980	-0.902	0.012
6	0.050	-0.761	-0.799	-0.721	0.011
7	0.075	-1.026	-1.077	-0.972	0.014
8	0.100	-0.915	-0.946	-0.881	0.009
9	0.150	-0.822	-0.852	-0.791	0.008
10	0.200	-0.659	-0.686	-0.630	0.007
11	0.250	-0.649	-0.673	-0.629	0.007
12	0.300	-0.499	-0.523	-0.475	0.007
13	0.350	-0.508	-0.529	-0.487	0.006
14	0.400	-0.438	-0.457	-0.418	0.006
15	0.450	-0.392	-0.411	-0.375	0.005
16	0.500	-0.348	-0.366	-0.330	0.005
62	0.550	-0.194	-0.212	-0.177	0.005
18	0.600	-0.261	-0.283	-0.242	0.005
63	0.650	-0.204	-0.220	-0.189	0.005
20	0.700	-0.066	-0.085	-0.051	0.005
21	0.750	-0.106	-0.128	-0.087	0.006
22	0.800	-0.065	-0.088	-0.041	0.007
66	0.850	0.092	0.076	0.110	0.005
25	0.950	0.216	0.195	0.235	0.008
26	1.000	0.229	0.210	0.245	0.005
		Lower surface at ETA = 0.60			
27	0.010	0.770	0.740	0.796	0.008
28	0.020	0.508	0.473	0.540	0.009
30	0.050	0.237	0.206	0.267	0.008
31	0.100	-0.026	-0.052	-0.003	0.006
32	0.200	-0.165	-0.190	-0.144	0.006
33	0.300	-0.287	-0.309	-0.267	0.006
34	0.400	-0.233	-0.252	-0.214	0.006
35	0.500	-0.103	-0.123	-0.081	0.006
36	0.600	-0.069	-0.087	-0.050	0.005
37	0.700	-0.013	-0.029	0.008	0.005
38	0.800	-0.076	-0.091	-0.056	0.005

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
		Upper surface at ETA = 0.95			
69	0.000	0.945	0.918	0.969	0.007
70	0.010	-0.443	-0.492	-0.387	0.015
71	0.020	-0.592	-0.630	-0.542	0.013
72	0.030	-0.626	-0.662	-0.583	0.011
73	0.040	-0.631	-0.660	-0.596	0.010
74	0.050	-0.679	-0.709	-0.647	0.009
75	0.075	-0.747	-0.773	-0.719	0.008
76	0.100	-0.657	-0.681	-0.630	0.007
77	0.150	-0.588	-0.610	-0.566	0.006
78	0.200	-0.504	-0.527	-0.477	0.006
79	0.250	-0.345	-0.364	-0.326	0.006
81	0.350	-0.238	-0.259	-0.221	0.005
82	0.400	-0.208	-0.228	-0.189	0.005
83	0.450	-0.259	-0.278	-0.241	0.005
84	0.500	-0.155	-0.173	-0.136	0.005
85	0.550	-0.119	-0.139	-0.104	0.005
86	0.600	-0.175	-0.192	-0.159	0.005
87	0.650	-0.057	-0.076	-0.043	0.005
88	0.700	-0.140	-0.159	-0.123	0.005
89	0.750	-0.023	-0.037	-0.002	0.004
90	0.800	-0.063	-0.081	-0.047	0.005
91	0.850	-0.045	-0.060	-0.030	0.005
92	0.900	0.067	0.053	0.081	0.005
93	0.950	0.169	0.152	0.185	0.005
94	1.000	0.025	0.013	0.049	0.004
		Lower surface at ETA = 0.95			
95	0.010	0.662	0.632	0.692	0.009
96	0.020	0.285	0.256	0.317	0.009
97	0.030	0.203	0.175	0.231	0.009
98	0.050	0.066	0.042	0.093	0.008
99	0.100	-0.097	-0.120	-0.070	0.007
100	0.200	-0.291	-0.310	-0.272	0.005
101	0.300	-0.154	-0.172	-0.136	0.005
102	0.400	-0.133	-0.151	-0.116	0.005
103	0.500	-0.078	-0.094	-0.059	0.005
104	0.600	-0.154	-0.171	-0.138	0.005
105	0.700	-0.116	-0.135	-0.099	0.005
106	0.800	-0.087	-0.103	-0.071	0.005
107	0.900	-0.010	-0.024	0.005	0.005
108	0.950	0.099	0.086	0.112	0.004

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
656	0.50	139.0	0.04

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.040	1.028	1.052	0.003
2	0.010	0.202	0.156	0.249	0.015
3	0.020	-0.168	-0.209	-0.128	0.012
4	0.030	-0.269	-0.307	-0.233	0.011
5	0.040	-0.310	-0.341	-0.278	0.010
6	0.050	-0.216	-0.245	-0.188	0.008
7	0.075	-0.374	-0.402	-0.346	0.008
8	0.100	-0.457	-0.479	-0.432	0.007
9	0.150	-0.460	-0.478	-0.439	0.006
10	0.200	-0.384	-0.404	-0.366	0.005
11	0.250	-0.415	-0.434	-0.399	0.005
12	0.300	-0.320	-0.340	-0.304	0.005
13	0.350	-0.349	-0.365	-0.336	0.004
14	0.400	-0.309	-0.326	-0.295	0.004
15	0.450	-0.284	-0.299	-0.269	0.004
16	0.500	-0.258	-0.275	-0.245	0.004
62	0.550	-0.140	-0.156	-0.124	0.004
18	0.600	-0.200	-0.215	-0.184	0.004
63	0.650	-0.157	-0.172	-0.142	0.004
20	0.700	-0.052	-0.066	-0.032	0.004
21	0.750	-0.086	-0.107	-0.069	0.005
22	0.800	-0.052	-0.069	-0.031	0.006
66	0.850	0.074	0.058	0.089	0.005
25	0.950	0.183	0.167	0.207	0.005
26	1.000	0.231	0.216	0.242	0.004

Lower surface at ETA = 0.60

27	0.010	0.196	0.149	0.241	0.012
28	0.020	-0.075	-0.127	-0.033	0.014
30	0.050	-0.210	-0.248	-0.185	0.008
31	0.100	-0.362	-0.383	-0.341	0.006
32	0.200	-0.371	-0.388	-0.352	0.006
33	0.300	-0.407	-0.426	-0.389	0.005
34	0.400	-0.311	-0.329	-0.298	0.004
35	0.500	-0.173	-0.189	-0.160	0.004
36	0.600	-0.117	-0.135	-0.102	0.005
37	0.700	-0.044	-0.061	-0.030	0.004
38	0.800	-0.075	-0.088	-0.060	0.004

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.047	1.030	1.062	0.004
70	0.010	0.115	0.064	0.159	0.012
71	0.020	-0.080	-0.123	-0.042	0.011
72	0.030	-0.179	-0.213	-0.147	0.009
73	0.040	-0.236	-0.268	-0.207	0.008
74	0.050	-0.315	-0.343	-0.287	0.007
75	0.075	-0.402	-0.425	-0.378	0.007
76	0.100	-0.398	-0.415	-0.380	0.005
77	0.150	-0.395	-0.418	-0.379	0.005
78	0.200	-0.358	-0.376	-0.338	0.005
79	0.250	-0.248	-0.267	-0.234	0.004
81	0.350	-0.181	-0.197	-0.165	0.005
82	0.400	-0.164	-0.180	-0.148	0.004
83	0.450	-0.207	-0.222	-0.194	0.004
84	0.500	-0.125	-0.138	-0.110	0.004
85	0.550	-0.097	-0.111	-0.082	0.004
86	0.600	-0.141	-0.158	-0.127	0.004
87	0.650	-0.044	-0.059	-0.031	0.004
88	0.700	-0.110	-0.126	-0.096	0.004
89	0.750	-0.011	-0.024	0.001	0.004
90	0.800	-0.041	-0.055	-0.027	0.004
91	0.850	-0.019	-0.034	-0.006	0.004
92	0.900	0.084	0.071	0.096	0.004
93	0.950	0.184	0.172	0.197	0.004
94	1.000	0.028	0.016	0.048	0.004

Lower surface at ETA = 0.95

95	0.010	0.209	0.165	0.254	0.012
96	0.020	-0.134	-0.173	-0.094	0.011
97	0.030	-0.221	-0.255	-0.184	0.010
98	0.050	-0.238	-0.267	-0.213	0.008
99	0.100	-0.297	-0.317	-0.279	0.005
100	0.200	-0.368	-0.386	-0.353	0.005
101	0.300	-0.212	-0.228	-0.197	0.004
102	0.400	-0.162	-0.176	-0.149	0.004
103	0.500	-0.095	-0.109	-0.082	0.004
104	0.600	-0.134	-0.150	-0.121	0.004
105	0.700	-0.089	-0.103	-0.075	0.004
106	0.800	-0.055	-0.070	-0.039	0.004
107	0.900	0.030	0.013	0.043	0.004
108	0.950	0.122	0.109	0.133	0.003

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
657	0.50	139.0	1.06

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.031	1.011	1.046	0.004	69	0.000	1.038	1.023	1.051	0.004
2	0.010	0.002	-0.052	0.053	0.015	70	0.010	-0.019	-0.057	0.030	0.013
3	0.020	-0.345	-0.392	-0.299	0.013	71	0.020	-0.204	-0.236	-0.167	0.011
4	0.030	-0.427	-0.466	-0.389	0.012	72	0.030	-0.285	-0.315	-0.250	0.009
5	0.040	-0.452	-0.487	-0.418	0.010	73	0.040	-0.329	-0.354	-0.299	0.008
6	0.050	-0.344	-0.382	-0.317	0.009	74	0.050	-0.395	-0.419	-0.369	0.007
7	0.075	-0.492	-0.524	-0.465	0.009	75	0.075	-0.469	-0.490	-0.451	0.006
8	0.100	-0.551	-0.573	-0.527	0.007	76	0.100	-0.450	-0.468	-0.430	0.006
9	0.150	-0.532	-0.550	-0.514	0.005	77	0.150	-0.431	-0.447	-0.413	0.005
10	0.200	-0.442	-0.459	-0.424	0.006	78	0.200	-0.386	-0.403	-0.369	0.005
11	0.250	-0.461	-0.478	-0.447	0.005	79	0.250	-0.271	-0.283	-0.256	0.004
12	0.300	-0.360	-0.376	-0.343	0.004	81	0.350	-0.196	-0.209	-0.177	0.004
13	0.350	-0.381	-0.395	-0.363	0.004	82	0.400	-0.174	-0.187	-0.159	0.004
14	0.400	-0.335	-0.350	-0.319	0.004	83	0.450	-0.213	-0.225	-0.198	0.004
15	0.450	-0.305	-0.319	-0.292	0.004	84	0.500	-0.130	-0.145	-0.115	0.004
16	0.500	-0.275	-0.289	-0.260	0.004	85	0.550	-0.100	-0.114	-0.082	0.004
62	0.550	-0.157	-0.173	-0.140	0.005	86	0.600	-0.141	-0.155	-0.127	0.004
18	0.600	-0.211	-0.226	-0.197	0.004	87	0.650	-0.045	-0.059	-0.031	0.004
63	0.650	-0.167	-0.181	-0.152	0.004	88	0.700	-0.108	-0.121	-0.092	0.004
20	0.700	-0.061	-0.075	-0.044	0.004	89	0.750	-0.010	-0.023	0.005	0.004
21	0.750	-0.089	-0.104	-0.071	0.005	90	0.800	-0.038	-0.051	-0.025	0.004
22	0.800	-0.056	-0.072	-0.040	0.005	91	0.850	-0.015	-0.030	-0.002	0.004
66	0.850	0.071	0.056	0.085	0.004	92	0.900	0.085	0.073	0.097	0.003
25	0.950	0.183	0.169	0.202	0.004	93	0.950	0.188	0.176	0.220	0.004
26	1.000	0.230	0.216	0.243	0.004	94	1.000	0.030	0.019	0.048	0.004
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.367	0.323	0.412	0.012	95	0.010	0.332	0.298	0.371	0.011
28	0.020	0.092	0.042	0.137	0.011	96	0.020	-0.017	-0.050	0.017	0.011
						97	0.030	-0.102	-0.132	-0.074	0.009
30	0.050	-0.094	-0.129	-0.063	0.009	98	0.050	-0.159	-0.185	-0.134	0.007
31	0.100	-0.272	-0.299	-0.247	0.006	99	0.100	-0.247	-0.268	-0.228	0.005
32	0.200	-0.316	-0.336	-0.298	0.005	100	0.200	-0.339	-0.356	-0.325	0.004
33	0.300	-0.365	-0.387	-0.348	0.005	101	0.300	-0.197	-0.210	-0.184	0.004
34	0.400	-0.284	-0.300	-0.268	0.005	102	0.400	-0.154	-0.166	-0.140	0.004
35	0.500	-0.156	-0.171	-0.144	0.004	103	0.500	-0.093	-0.107	-0.080	0.004
36	0.600	-0.104	-0.123	-0.090	0.004	104	0.600	-0.133	-0.148	-0.119	0.004
37	0.700	-0.038	-0.050	-0.023	0.004	105	0.700	-0.092	-0.106	-0.078	0.004
38	0.800	-0.071	-0.086	-0.056	0.004	106	0.800	-0.060	-0.074	-0.045	0.004
						107	0.900	0.022	0.007	0.034	0.004
						108	0.950	0.114	0.102	0.126	0.004

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
658	0.50	139.0	2.01

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.990	0.968	1.008	0.006
2	0.010	-0.206	-0.257	-0.154	0.015
3	0.020	-0.531	-0.579	-0.488	0.013
4	0.030	-0.590	-0.631	-0.552	0.012
5	0.040	-0.597	-0.633	-0.563	0.010
6	0.050	-0.473	-0.506	-0.443	0.009
7	0.075	-0.610	-0.639	-0.582	0.009
8	0.100	-0.641	-0.664	-0.618	0.006
9	0.150	-0.602	-0.621	-0.583	0.006
10	0.200	-0.498	-0.517	-0.482	0.005
11	0.250	-0.507	-0.523	-0.491	0.005
12	0.300	-0.397	-0.415	-0.378	0.004
13	0.350	-0.410	-0.427	-0.395	0.005
14	0.400	-0.360	-0.377	-0.344	0.004
15	0.450	-0.326	-0.340	-0.309	0.004
16	0.500	-0.293	-0.309	-0.275	0.004
62	0.550	-0.172	-0.186	-0.156	0.004
18	0.600	-0.221	-0.237	-0.205	0.004
63	0.650	-0.175	-0.187	-0.162	0.004
20	0.700	-0.068	-0.083	-0.053	0.004
21	0.750	-0.092	-0.109	-0.075	0.004
22	0.800	-0.059	-0.074	-0.043	0.004
66	0.850	0.070	0.056	0.087	0.004
25	0.950	0.183	0.169	0.207	0.004
26	1.000	0.229	0.216	0.243	0.004

Lower surface at ETA = 0.60

27	0.010	0.513	0.472	0.547	0.010
28	0.020	0.235	0.196	0.271	0.010
30	0.050	0.018	-0.011	0.045	0.008
31	0.100	-0.189	-0.211	-0.169	0.006
32	0.200	-0.262	-0.280	-0.242	0.005
33	0.300	-0.329	-0.345	-0.312	0.005
34	0.400	-0.257	-0.273	-0.242	0.004
35	0.500	-0.139	-0.154	-0.124	0.004
36	0.600	-0.093	-0.107	-0.080	0.004
37	0.700	-0.031	-0.043	-0.016	0.004
38	0.800	-0.067	-0.081	-0.049	0.004

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.015	0.999	1.030	0.005
70	0.010	-0.158	-0.206	-0.114	0.013
71	0.020	-0.328	-0.366	-0.290	0.011
72	0.030	-0.390	-0.424	-0.356	0.009
73	0.040	-0.422	-0.450	-0.390	0.008
74	0.050	-0.475	-0.501	-0.449	0.007
75	0.075	-0.534	-0.559	-0.513	0.006
76	0.100	-0.501	-0.521	-0.481	0.006
77	0.150	-0.467	-0.486	-0.447	0.005
78	0.200	-0.413	-0.428	-0.394	0.005
79	0.250	-0.292	-0.309	-0.279	0.004
81	0.350	-0.208	-0.225	-0.195	0.004
82	0.400	-0.184	-0.198	-0.165	0.004
83	0.450	-0.220	-0.234	-0.207	0.004
84	0.500	-0.135	-0.149	-0.122	0.004
85	0.550	-0.105	-0.119	-0.092	0.004
86	0.600	-0.144	-0.160	-0.130	0.004
87	0.650	-0.048	-0.061	-0.034	0.004
88	0.700	-0.110	-0.124	-0.096	0.004
89	0.750	-0.012	-0.023	0.001	0.004
90	0.800	-0.040	-0.052	-0.025	0.004
91	0.850	-0.018	-0.030	-0.004	0.004
92	0.900	0.080	0.067	0.093	0.004
93	0.950	0.180	0.166	0.191	0.004
94	1.000	0.033	0.022	0.048	0.004

Lower surface at ETA = 0.95

95	0.010	0.441	0.405	0.481	0.010
96	0.020	0.089	0.057	0.125	0.010
97	0.030	0.002	-0.025	0.033	0.009
98	0.050	-0.086	-0.107	-0.063	0.007
99	0.100	-0.198	-0.217	-0.180	0.005
100	0.200	-0.312	-0.327	-0.296	0.005
101	0.300	-0.183	-0.195	-0.169	0.004
102	0.400	-0.146	-0.160	-0.132	0.004
103	0.500	-0.090	-0.105	-0.076	0.004
104	0.600	-0.133	-0.148	-0.120	0.004
105	0.700	-0.094	-0.107	-0.079	0.004
106	0.800	-0.066	-0.079	-0.045	0.004
107	0.900	0.014	0.001	0.028	0.004
108	0.950	0.107	0.094	0.121	0.003

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
659	0.50	139.4	4.03

The data was adjusted using wind-off zero 551

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.796	0.762	0.834	0.010	69	0.000	0.909	0.882	0.933	0.007
2	0.010	-0.707	-0.768	-0.640	0.019	70	0.010	-0.479	-0.533	-0.426	0.015
3	0.020	-0.960	-1.007	-0.902	0.015	71	0.020	-0.604	-0.649	-0.565	0.012
4	0.030	-0.959	-1.001	-0.909	0.013	72	0.030	-0.621	-0.658	-0.587	0.010
5	0.040	-0.919	-0.953	-0.876	0.011	73	0.040	-0.620	-0.654	-0.588	0.009
6	0.050	-0.764	-0.795	-0.722	0.010	74	0.050	-0.648	-0.675	-0.620	0.008
7	0.075	-0.860	-0.887	-0.828	0.009	75	0.075	-0.671	-0.694	-0.647	0.006
8	0.100	-0.837	-0.863	-0.818	0.007	76	0.100	-0.607	-0.628	-0.588	0.006
9	0.150	-0.748	-0.764	-0.728	0.006	77	0.150	-0.541	-0.560	-0.523	0.005
10	0.200	-0.614	-0.632	-0.597	0.005	78	0.200	-0.465	-0.481	-0.447	0.005
11	0.250	-0.596	-0.613	-0.580	0.005	79	0.250	-0.333	-0.348	-0.317	0.004
12	0.300	-0.473	-0.488	-0.456	0.004	81	0.350	-0.235	-0.250	-0.220	0.004
13	0.350	-0.470	-0.486	-0.456	0.004	82	0.400	-0.205	-0.219	-0.192	0.004
14	0.400	-0.409	-0.424	-0.394	0.004	83	0.450	-0.236	-0.248	-0.222	0.004
15	0.450	-0.366	-0.381	-0.352	0.005	84	0.500	-0.151	-0.165	-0.136	0.004
16	0.500	-0.324	-0.339	-0.308	0.004	85	0.550	-0.119	-0.131	-0.106	0.004
62	0.550	-0.198	-0.215	-0.184	0.004	86	0.600	-0.156	-0.169	-0.143	0.004
18	0.600	-0.244	-0.256	-0.227	0.004	87	0.650	-0.062	-0.075	-0.049	0.004
63	0.650	-0.190	-0.207	-0.175	0.004	88	0.700	-0.122	-0.134	-0.109	0.004
20	0.700	-0.082	-0.097	-0.066	0.005	89	0.750	-0.027	-0.038	-0.013	0.003
21	0.750	-0.101	-0.273	-0.084	0.006	90	0.800	-0.054	-0.068	-0.042	0.004
22	0.800	-0.062	-0.078	-0.045	0.005	91	0.850	-0.034	-0.047	-0.020	0.004
66	0.850	0.068	0.052	0.083	0.004	92	0.900	0.057	0.047	0.068	0.004
25	0.950	0.184	0.169	0.204	0.004	93	0.950	0.151	0.139	0.165	0.004
26	1.000	0.222	0.210	0.235	0.004	94	1.000	0.032	0.021	0.048	0.004
		Lower surface at ETA = 0.60						Lower surface at ETA = 0.95			
27	0.010	0.757	0.729	0.786	0.008	95	0.010	0.638	0.606	0.665	0.009
28	0.020	0.494	0.467	0.524	0.009	96	0.020	0.287	0.257	0.316	0.009
						97	0.030	0.198	0.170	0.224	0.008
30	0.050	0.223	0.202	0.249	0.007	98	0.050	0.062	0.038	0.087	0.007
31	0.100	-0.023	-0.044	-0.003	0.005	99	0.100	-0.094	-0.115	-0.073	0.006
32	0.200	-0.151	-0.166	-0.134	0.005	100	0.200	-0.253	-0.269	-0.237	0.005
33	0.300	-0.249	-0.264	-0.233	0.004	101	0.300	-0.149	-0.164	-0.136	0.004
34	0.400	-0.200	-0.212	-0.184	0.004	102	0.400	-0.127	-0.140	-0.115	0.004
35	0.500	-0.098	-0.115	-0.085	0.004	103	0.500	-0.083	-0.097	-0.070	0.004
36	0.600	-0.066	-0.080	-0.049	0.004	104	0.600	-0.132	-0.145	-0.120	0.004
37	0.700	-0.014	-0.027	0.002	0.004	105	0.700	-0.100	-0.111	-0.087	0.004
38	0.800	-0.056	-0.072	-0.042	0.005	106	0.800	-0.077	-0.090	-0.065	0.004
						107	0.900	-0.001	-0.011	0.018	0.004
						108	0.950	0.091	0.080	0.104	0.003

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
662	0.00	0.0	0.01

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.000	-0.004	0.006	0.002
2	0.010	0.000	-0.006	0.005	0.001
3	0.020	0.000	-0.005	0.006	0.001
4	0.030	0.000	-0.004	0.005	0.001
5	0.040	0.000	-0.005	0.003	0.001
6	0.050	-0.001	-0.009	0.006	0.002
7	0.075	-0.001	-0.010	0.006	0.002
8	0.100	0.000	-0.006	0.005	0.002
9	0.150	0.000	-0.005	0.004	0.001
10	0.200	0.000	-0.008	0.005	0.002
11	0.250	0.000	-0.008	0.006	0.002
12	0.300	0.000	-0.005	0.006	0.002
13	0.350	0.000	-0.003	0.004	0.001
14	0.400	0.000	-0.004	0.005	0.001
15	0.450	0.000	-0.005	0.004	0.001
16	0.500	0.000	-0.005	0.006	0.001
62	0.550	-0.001	-0.006	0.005	0.002
18	0.600	0.001	-0.004	0.007	0.002
63	0.650	0.000	-0.008	0.006	0.002
20	0.700	-0.001	-0.041	0.005	0.002
21	0.750	0.003	-0.010	0.014	0.005
22	0.800	-0.003	-0.014	0.015	0.006
66	0.850	-0.001	-0.010	0.008	0.003
25	0.950	-0.001	-0.009	0.008	0.003
26	1.000	0.000	-0.004	0.003	0.001

Lower surface at ETA = 0.60

27	0.010	0.000	-0.004	0.004	0.001
28	0.020	0.000	-0.006	0.004	0.002
30	0.050	-0.001	-0.010	0.008	0.003
31	0.100	-0.001	-0.007	0.008	0.004
32	0.200	0.000	-0.009	0.006	0.002
33	0.300	0.000	-0.008	0.009	0.003
34	0.400	0.000	-0.005	0.008	0.002
35	0.500	0.000	-0.008	0.008	0.002
36	0.600	-0.002	-0.013	0.006	0.004
37	0.700	-0.001	-0.009	0.012	0.003
38	0.800	0.000	-0.010	0.008	0.003

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	0.000	-0.005	0.005	0.002
70	0.010	0.000	-0.006	0.007	0.002
71	0.020	0.000	-0.004	0.003	0.001
72	0.030	0.000	-0.005	0.005	0.001
73	0.040	0.000	-0.005	0.005	0.002
74	0.050	0.001	-0.006	0.007	0.002
75	0.075	0.001	-0.007	0.007	0.002
76	0.100	0.000	-0.005	0.006	0.002
77	0.150	0.000	-0.009	0.031	0.003
78	0.200	0.000	-0.007	0.010	0.003
79	0.250	0.000	-0.007	0.006	0.002
81	0.350	-0.001	-0.007	0.007	0.003
82	0.400	0.000	-0.010	0.006	0.002
83	0.450	0.000	-0.004	0.005	0.001
84	0.500	0.000	-0.005	0.004	0.002
85	0.550	0.000	-0.006	0.005	0.002
86	0.600	0.000	-0.004	0.006	0.002
87	0.650	0.000	-0.005	0.006	0.002
88	0.700	0.001	-0.007	0.008	0.002
89	0.750	0.000	-0.005	0.004	0.001
90	0.800	0.000	-0.004	0.005	0.002
91	0.850	0.000	-0.004	0.005	0.001
92	0.900	0.000	-0.004	0.004	0.001
93	0.950	-0.003	-0.011	0.002	0.002
94	1.000	0.001	-0.006	0.007	0.002

Lower surface at ETA = 0.95

95	0.010	0.000	-0.005	0.005	0.002
96	0.020	0.000	-0.006	0.018	0.002
97	0.030	0.000	-0.004	0.005	0.001
98	0.050	0.000	-0.005	0.005	0.002
99	0.100	-0.001	-0.007	0.006	0.002
100	0.200	0.001	-0.005	0.008	0.002
101	0.300	-0.001	-0.007	0.006	0.002
102	0.400	0.000	-0.005	0.021	0.002
103	0.500	0.000	-0.006	0.013	0.004
104	0.600	0.000	-0.007	0.006	0.002
105	0.700	0.000	-0.004	0.005	0.002
106	0.800	0.000	-0.007	0.008	0.002
107	0.900	0.000	-0.003	0.005	0.001
108	0.950	0.000	-0.004	0.006	0.001

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
664	0.40	139.5	0.01

The data was adjusted using wind-off zero 662

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.066	1.052	1.079	0.004	69	0.000	1.064	1.052	1.077	0.004
2	0.010	0.111	0.062	0.166	0.014	70	0.010	0.150	0.107	0.195	0.013
3	0.020	-0.104	-0.147	-0.062	0.012	71	0.020	-0.131	-0.167	-0.091	0.011
4	0.030	-0.206	-0.245	-0.168	0.010	72	0.030	-0.218	-0.249	-0.186	0.009
5	0.040	-0.254	-0.291	-0.221	0.009	73	0.040	-0.278	-0.307	-0.247	0.008
6	0.050	-0.290	-0.320	-0.257	0.009	74	0.050	-0.243	-0.270	-0.215	0.007
7	0.075	-0.402	-0.432	-0.371	0.008	75	0.075	-0.301	-0.323	-0.278	0.006
8	0.100	-0.373	-0.397	-0.350	0.006	76	0.100	-0.317	-0.336	-0.298	0.005
9	0.150	-0.380	-0.398	-0.363	0.005	77	0.150	-0.308	-0.322	-0.291	0.005
10	0.200	-0.394	-0.409	-0.375	0.004	78	0.200	-0.279	-0.294	-0.264	0.005
11	0.250	-0.337	-0.352	-0.322	0.004	79	0.250	-0.296	-0.308	-0.283	0.004
12	0.300	-0.331	-0.345	-0.316	0.004	81	0.350	-0.239	-0.253	-0.223	0.004
13	0.350	-0.279	-0.291	-0.267	0.003	82	0.400	-0.211	-0.224	-0.196	0.004
14	0.400	-0.251	-0.263	-0.239	0.003	83	0.450	-0.153	-0.165	-0.141	0.003
15	0.450	-0.221	-0.233	-0.208	0.003	84	0.500	-0.152	-0.162	-0.141	0.003
16	0.500	-0.191	-0.203	-0.176	0.004	85	0.550	-0.129	-0.140	-0.118	0.003
62	0.550	-0.185	-0.201	-0.170	0.005	86	0.600	-0.081	-0.093	-0.068	0.004
18	0.600	-0.128	-0.142	-0.114	0.004	87	0.650	-0.089	-0.100	-0.077	0.004
63	0.650	-0.102	-0.115	-0.089	0.003	88	0.700	-0.034	-0.049	-0.021	0.004
20	0.700	-0.107	-0.121	-0.094	0.004	89	0.750	-0.042	-0.052	-0.032	0.003
21	0.750	-0.050	-0.066	-0.032	0.007	90	0.800	0.004	-0.007	0.015	0.003
22	0.800	-0.010	-0.029	0.009	0.007	91	0.850	0.037	0.023	0.047	0.003
66	0.850	-0.008	-0.023	0.008	0.005	92	0.900	0.041	0.030	0.051	0.003
25	0.950	0.082	0.067	0.098	0.005	93	0.950	0.071	0.060	0.098	0.004
26	1.000	0.190	0.180	0.203	0.003	94	1.000	0.097	0.084	0.109	0.003
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.132	0.085	0.174	0.013	95	0.010	0.131	0.092	0.170	0.013
28	0.020	-0.138	-0.181	-0.093	0.013	96	0.020	-0.079	-0.115	-0.043	0.011
						97	0.030	-0.190	-0.223	-0.159	0.010
30	0.050	-0.288	-0.319	-0.261	0.009	98	0.050	-0.279	-0.305	-0.257	0.008
31	0.100	-0.419	-0.439	-0.398	0.006	99	0.100	-0.357	-0.375	-0.337	0.005
32	0.200	-0.399	-0.415	-0.381	0.005	100	0.200	-0.275	-0.291	-0.260	0.004
33	0.300	-0.307	-0.321	-0.293	0.004	101	0.300	-0.269	-0.281	-0.254	0.004
34	0.400	-0.248	-0.261	-0.233	0.004	102	0.400	-0.201	-0.214	-0.186	0.004
35	0.500	-0.221	-0.236	-0.208	0.005	103	0.500	-0.167	-0.181	-0.152	0.004
36	0.600	-0.155	-0.168	-0.137	0.004	104	0.600	-0.084	-0.097	-0.072	0.003
37	0.700	-0.100	-0.116	-0.082	0.004	105	0.700	-0.042	-0.054	-0.030	0.003
38	0.800	-0.004	-0.017	0.011	0.005	106	0.800	0.004	-0.010	0.017	0.004
						107	0.900	0.069	0.057	0.081	0.004
						108	0.950	0.096	0.086	0.105	0.003

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
665	0.40	139.4	1.05

The data was adjusted using wind-off zero 662

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.085	1.071	1.101	0.004
2	0.010	-0.113	-0.181	-0.062	0.015
3	0.020	-0.245	-0.303	-0.201	0.013
4	0.030	-0.332	-0.381	-0.294	0.011
5	0.040	-0.373	-0.419	-0.342	0.010
6	0.050	-0.456	-0.493	-0.426	0.009
7	0.075	-0.548	-0.577	-0.523	0.008
8	0.100	-0.438	-0.460	-0.416	0.006
9	0.150	-0.427	-0.446	-0.412	0.005
10	0.200	-0.478	-0.495	-0.464	0.004
11	0.250	-0.364	-0.379	-0.349	0.004
12	0.300	-0.397	-0.410	-0.383	0.004
13	0.350	-0.284	-0.299	-0.272	0.003
14	0.400	-0.258	-0.272	-0.245	0.004
15	0.450	-0.219	-0.229	-0.207	0.003
16	0.500	-0.182	-0.194	-0.169	0.003
62	0.550	-0.241	-0.253	-0.230	0.004
18	0.600	-0.107	-0.118	-0.092	0.003
63	0.650	-0.086	-0.098	-0.074	0.003
20	0.700	-0.157	-0.170	-0.146	0.003
21	0.750	-0.038	-0.057	-0.021	0.006
22	0.800	0.007	-0.014	0.025	0.007
66	0.850	-0.053	-0.066	-0.042	0.004
25	0.950	0.041	0.030	0.054	0.004
26	1.000	0.175	0.164	0.187	0.003

Lower surface at ETA = 0.60

27	0.010	0.289	0.245	0.343	0.013
28	0.020	0.004	-0.036	0.054	0.012
30	0.050	-0.216	-0.244	-0.184	0.009
31	0.100	-0.376	-0.395	-0.355	0.006
32	0.200	-0.380	-0.399	-0.365	0.004
33	0.300	-0.235	-0.252	-0.221	0.004
34	0.400	-0.192	-0.207	-0.181	0.004
35	0.500	-0.248	-0.259	-0.236	0.004
36	0.600	-0.173	-0.186	-0.161	0.003
37	0.700	-0.128	-0.141	-0.117	0.003
38	0.800	0.032	0.020	0.045	0.003

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.084	1.070	1.097	0.004
70	0.010	0.040	-0.003	0.088	0.014
71	0.020	-0.278	-0.314	-0.239	0.012
72	0.030	-0.348	-0.380	-0.314	0.010
73	0.040	-0.398	-0.425	-0.367	0.008
74	0.050	-0.296	-0.322	-0.268	0.007
75	0.075	-0.334	-0.352	-0.312	0.006
76	0.100	-0.344	-0.359	-0.323	0.005
77	0.150	-0.314	-0.330	-0.296	0.004
78	0.200	-0.283	-0.298	-0.269	0.004
79	0.250	-0.361	-0.372	-0.345	0.003
81	0.350	-0.301	-0.315	-0.289	0.003
82	0.400	-0.256	-0.271	-0.245	0.003
83	0.450	-0.134	-0.146	-0.124	0.003
84	0.500	-0.180	-0.192	-0.171	0.003
85	0.550	-0.160	-0.173	-0.148	0.003
86	0.600	-0.054	-0.066	-0.044	0.003
87	0.650	-0.121	-0.133	-0.110	0.003
88	0.700	0.003	-0.011	0.016	0.004
89	0.750	-0.061	-0.073	-0.052	0.003
90	0.800	0.025	0.015	0.040	0.003
91	0.850	0.063	0.051	0.074	0.003
92	0.900	0.021	0.011	0.031	0.003
93	0.950	0.035	0.023	0.045	0.004
94	1.000	0.127	0.115	0.140	0.004

Lower surface at ETA = 0.95

95	0.010	0.228	0.191	0.271	0.012
96	0.020	0.065	0.032	0.101	0.011
97	0.030	-0.070	-0.098	-0.038	0.009
98	0.050	-0.229	-0.252	-0.205	0.007
99	0.100	-0.351	-0.368	-0.335	0.005
100	0.200	-0.207	-0.223	-0.193	0.004
101	0.300	-0.301	-0.311	-0.290	0.003
102	0.400	-0.226	-0.238	-0.213	0.003
103	0.500	-0.214	-0.228	-0.204	0.003
104	0.600	-0.056	-0.067	-0.046	0.003
105	0.700	-0.024	-0.033	-0.014	0.003
106	0.800	0.015	0.001	0.026	0.004
107	0.900	0.079	0.068	0.088	0.003
108	0.950	0.077	0.069	0.087	0.003

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
666	0.40	139.6	2.00

The data was adjusted using wind-off zero 662

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.037	1.015	1.061	0.006	69	0.000	1.056	1.040	1.073	0.005
2	0.010	-0.320	-0.376	-0.260	0.017	70	0.010	-0.098	-0.146	-0.052	0.014
3	0.020	-0.424	-0.472	-0.368	0.014	71	0.020	-0.397	-0.436	-0.360	0.012
4	0.030	-0.485	-0.525	-0.441	0.012	72	0.030	-0.448	-0.482	-0.417	0.010
5	0.040	-0.510	-0.543	-0.474	0.010	73	0.040	-0.486	-0.514	-0.460	0.009
6	0.050	-0.577	-0.607	-0.544	0.009	74	0.050	-0.371	-0.396	-0.348	0.008
7	0.075	-0.653	-0.680	-0.625	0.008	75	0.075	-0.394	-0.414	-0.372	0.006
8	0.100	-0.522	-0.544	-0.496	0.006	76	0.100	-0.392	-0.406	-0.375	0.005
9	0.150	-0.492	-0.507	-0.475	0.005	77	0.150	-0.347	-0.361	-0.332	0.005
10	0.200	-0.529	-0.544	-0.514	0.004	78	0.200	-0.307	-0.320	-0.293	0.004
11	0.250	-0.405	-0.419	-0.392	0.004	79	0.250	-0.380	-0.391	-0.370	0.004
12	0.300	-0.432	-0.446	-0.419	0.004	81	0.350	-0.313	-0.326	-0.300	0.004
13	0.350	-0.312	-0.323	-0.301	0.003	82	0.400	-0.265	-0.280	-0.254	0.003
14	0.400	-0.282	-0.294	-0.270	0.003	83	0.450	-0.140	-0.152	-0.131	0.003
15	0.450	-0.238	-0.250	-0.225	0.004	84	0.500	-0.185	-0.197	-0.176	0.003
16	0.500	-0.199	-0.210	-0.187	0.004	85	0.550	-0.164	-0.176	-0.154	0.003
62	0.550	-0.256	-0.267	-0.243	0.003	86	0.600	-0.056	-0.068	-0.046	0.003
18	0.600	-0.117	-0.127	-0.106	0.003	87	0.650	-0.123	-0.136	-0.114	0.003
63	0.650	-0.094	-0.105	-0.084	0.003	88	0.700	0.002	-0.011	0.014	0.004
20	0.700	-0.165	-0.176	-0.154	0.004	89	0.750	-0.064	-0.075	-0.053	0.003
21	0.750	-0.044	-0.059	-0.028	0.006	90	0.800	0.024	0.011	0.036	0.003
22	0.800	0.004	-0.016	0.022	0.007	91	0.850	0.061	0.049	0.072	0.003
66	0.850	-0.055	-0.066	-0.044	0.004	92	0.900	0.017	0.005	0.026	0.003
25	0.950	0.040	0.025	0.052	0.003	93	0.950	0.027	0.014	0.037	0.004
26	1.000	0.174	0.161	0.183	0.003	94	1.000	0.131	0.117	0.141	0.004
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.436	0.398	0.475	0.012	95	0.010	0.337	0.298	0.378	0.011
28	0.020	0.148	0.111	0.188	0.011	96	0.020	0.168	0.134	0.207	0.010
						97	0.030	0.022	-0.007	0.057	0.009
30	0.050	-0.113	-0.143	-0.076	0.008	98	0.050	-0.158	-0.182	-0.130	0.007
31	0.100	-0.295	-0.318	-0.276	0.006	99	0.100	-0.304	-0.320	-0.286	0.005
32	0.200	-0.329	-0.345	-0.313	0.005	100	0.200	-0.180	-0.196	-0.167	0.004
33	0.300	-0.199	-0.213	-0.187	0.004	101	0.300	-0.286	-0.299	-0.275	0.004
34	0.400	-0.166	-0.179	-0.152	0.003	102	0.400	-0.218	-0.232	-0.208	0.003
35	0.500	-0.229	-0.244	-0.215	0.004	103	0.500	-0.210	-0.225	-0.198	0.004
36	0.600	-0.161	-0.174	-0.149	0.003	104	0.600	-0.054	-0.069	-0.044	0.003
37	0.700	-0.121	-0.131	-0.106	0.003	105	0.700	-0.026	-0.040	-0.016	0.003
38	0.800	0.037	0.024	0.050	0.003	106	0.800	0.010	-0.006	0.021	0.004
						107	0.900	0.071	0.059	0.082	0.003
						108	0.950	0.070	0.059	0.080	0.003

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
667	0.40	139.3	3.99

The data was adjusted using wind-off zero 662

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.830	0.781	0.870	0.012
2	0.010	-0.808	-0.879	-0.743	0.020
3	0.020	-0.832	-0.887	-0.778	0.016
4	0.030	-0.834	-0.879	-0.787	0.013
5	0.040	-0.812	-0.849	-0.772	0.011
6	0.050	-0.849	-0.887	-0.814	0.011
7	0.075	-0.875	-0.902	-0.843	0.008
8	0.100	-0.705	-0.736	-0.680	0.007
9	0.150	-0.630	-0.648	-0.614	0.005
10	0.200	-0.640	-0.657	-0.626	0.004
11	0.250	-0.493	-0.506	-0.480	0.004
12	0.300	-0.506	-0.522	-0.494	0.004
13	0.350	-0.371	-0.384	-0.361	0.003
14	0.400	-0.331	-0.344	-0.320	0.003
15	0.450	-0.279	-0.291	-0.268	0.003
16	0.500	-0.233	-0.246	-0.222	0.004
62	0.550	-0.285	-0.297	-0.273	0.004
18	0.600	-0.139	-0.153	-0.129	0.004
63	0.650	-0.111	-0.125	-0.100	0.003
20	0.700	-0.180	-0.193	-0.167	0.004
21	0.750	-0.054	-0.068	-0.036	0.006
22	0.800	-0.002	-0.020	0.016	0.007
66	0.850	-0.059	-0.072	-0.046	0.004
25	0.950	0.041	0.028	0.052	0.004
26	1.000	0.170	0.157	0.179	0.003

Lower surface at ETA = 0.60

27	0.010	0.685	0.655	0.714	0.009
28	0.020	0.405	0.372	0.436	0.010
30	0.050	0.093	0.065	0.117	0.007
31	0.100	-0.138	-0.160	-0.121	0.006
32	0.200	-0.226	-0.242	-0.210	0.004
33	0.300	-0.123	-0.136	-0.113	0.004
34	0.400	-0.112	-0.125	-0.099	0.003
35	0.500	-0.192	-0.204	-0.181	0.004
36	0.600	-0.133	-0.147	-0.122	0.004
37	0.700	-0.102	-0.116	-0.089	0.004
38	0.800	0.048	0.036	0.059	0.003

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	0.948	0.919	0.975	0.008
70	0.010	-0.410	-0.465	-0.352	0.016
71	0.020	-0.660	-0.705	-0.612	0.012
72	0.030	-0.667	-0.702	-0.630	0.010
73	0.040	-0.675	-0.706	-0.639	0.008
74	0.050	-0.536	-0.564	-0.506	0.008
75	0.075	-0.523	-0.545	-0.501	0.006
76	0.100	-0.494	-0.514	-0.478	0.005
77	0.150	-0.419	-0.437	-0.400	0.005
78	0.200	-0.360	-0.375	-0.346	0.004
79	0.250	-0.422	-0.433	-0.409	0.003
81	0.350	-0.340	-0.353	-0.327	0.003
82	0.400	-0.286	-0.298	-0.275	0.003
83	0.450	-0.157	-0.167	-0.146	0.003
84	0.500	-0.200	-0.212	-0.189	0.003
85	0.550	-0.178	-0.189	-0.168	0.003
86	0.600	-0.068	-0.079	-0.058	0.003
87	0.650	-0.136	-0.147	-0.126	0.003
88	0.700	-0.010	-0.021	0.003	0.004
89	0.750	-0.078	-0.087	-0.068	0.003
90	0.800	0.010	-0.001	0.022	0.003
91	0.850	0.046	0.035	0.056	0.003
92	0.900	-0.004	-0.014	0.008	0.003
93	0.950	0.003	-0.013	0.014	0.003
94	1.000	0.130	0.120	0.140	0.004

Lower surface at ETA = 0.95

95	0.010	0.534	0.504	0.568	0.009
96	0.020	0.361	0.329	0.396	0.009
97	0.030	0.200	0.173	0.230	0.008
98	0.050	-0.018	-0.042	0.005	0.007
99	0.100	-0.207	-0.225	-0.188	0.005
100	0.200	-0.124	-0.137	-0.106	0.004
101	0.300	-0.254	-0.266	-0.243	0.003
102	0.400	-0.199	-0.211	-0.190	0.003
103	0.500	-0.203	-0.216	-0.193	0.003
104	0.600	-0.053	-0.064	-0.043	0.003
105	0.700	-0.031	-0.041	-0.021	0.003
106	0.800	-0.001	-0.013	0.010	0.004
107	0.900	0.058	0.047	0.074	0.003
108	0.950	0.057	0.048	0.066	0.003

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
668	0.30	128.9	0.03

The data was adjusted using wind-off zero 662

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.098	1.084	1.111	0.003	69	0.000	1.094	1.083	1.110	0.003
2	0.010	0.061	0.009	0.122	0.015	70	0.010	0.174	0.128	0.219	0.014
3	0.020	-0.056	-0.100	-0.001	0.013	71	0.020	-0.180	-0.220	-0.143	0.012
4	0.030	-0.161	-0.200	-0.115	0.011	72	0.030	-0.262	-0.293	-0.230	0.010
5	0.040	-0.223	-0.255	-0.182	0.010	73	0.040	-0.325	-0.353	-0.298	0.008
6	0.050	-0.357	-0.392	-0.322	0.009	74	0.050	-0.197	-0.222	-0.171	0.007
7	0.075	-0.441	-0.469	-0.407	0.007	75	0.075	-0.241	-0.261	-0.220	0.006
8	0.100	-0.317	-0.340	-0.295	0.006	76	0.100	-0.263	-0.280	-0.246	0.005
9	0.150	-0.325	-0.343	-0.309	0.005	77	0.150	-0.250	-0.262	-0.233	0.004
10	0.200	-0.419	-0.432	-0.405	0.004	78	0.200	-0.232	-0.247	-0.216	0.004
11	0.250	-0.288	-0.301	-0.276	0.003	79	0.250	-0.351	-0.361	-0.339	0.003
12	0.300	-0.357	-0.369	-0.345	0.003	81	0.350	-0.304	-0.317	-0.293	0.003
13	0.350	-0.222	-0.232	-0.212	0.003	82	0.400	-0.257	-0.269	-0.244	0.003
14	0.400	-0.209	-0.218	-0.198	0.003	83	0.450	-0.105	-0.114	-0.095	0.003
15	0.450	-0.172	-0.182	-0.160	0.003	84	0.500	-0.179	-0.189	-0.169	0.003
16	0.500	-0.138	-0.151	-0.128	0.003	85	0.550	-0.165	-0.173	-0.155	0.003
62	0.550	-0.237	-0.247	-0.228	0.003	86	0.600	-0.031	-0.041	-0.021	0.003
18	0.600	-0.067	-0.077	-0.058	0.003	87	0.650	-0.131	-0.142	-0.120	0.003
63	0.650	-0.052	-0.062	-0.042	0.003	88	0.700	0.026	0.015	0.037	0.003
20	0.700	-0.167	-0.179	-0.158	0.003	89	0.750	-0.068	-0.078	-0.058	0.003
21	0.750	-0.017	-0.037	0.000	0.006	90	0.800	0.038	0.028	0.049	0.003
22	0.800	0.028	0.010	0.046	0.007	91	0.850	0.079	0.069	0.088	0.003
66	0.850	-0.075	-0.086	-0.064	0.004	92	0.900	0.008	0.000	0.019	0.003
25	0.950	0.008	-0.004	0.023	0.004	93	0.950	0.005	-0.004	0.015	0.003
26	1.000	0.165	0.156	0.175	0.003	94	1.000	0.142	0.132	0.156	0.004
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.097	0.038	0.152	0.015	95	0.010	0.081	0.036	0.129	0.013
28	0.020	-0.179	-0.229	-0.129	0.013	96	0.020	-0.029	-0.066	0.012	0.012
						97	0.030	-0.147	-0.180	-0.114	0.010
30	0.050	-0.347	-0.375	-0.315	0.008	98	0.050	-0.309	-0.334	-0.283	0.008
31	0.100	-0.460	-0.480	-0.441	0.006	99	0.100	-0.408	-0.425	-0.392	0.005
32	0.200	-0.435	-0.449	-0.421	0.005	100	0.200	-0.196	-0.207	-0.185	0.003
33	0.300	-0.238	-0.253	-0.225	0.004	101	0.300	-0.328	-0.337	-0.310	0.003
34	0.400	-0.189	-0.201	-0.179	0.003	102	0.400	-0.243	-0.252	-0.233	0.003
35	0.500	-0.279	-0.291	-0.266	0.003	103	0.500	-0.235	-0.246	-0.225	0.003
36	0.600	-0.194	-0.209	-0.184	0.003	104	0.600	-0.030	-0.039	-0.021	0.003
37	0.700	-0.143	-0.154	-0.131	0.003	105	0.700	-0.005	-0.015	0.004	0.003
38	0.800	0.048	0.039	0.059	0.003	106	0.800	0.027	0.017	0.040	0.003
						107	0.900	0.099	0.091	0.118	0.003
						108	0.950	0.076	0.066	0.086	0.003

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
669	0.30	127.9	1.02

The data was adjusted using wind-off zero 662

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.093	1.074	1.110	0.005
2	0.010	-0.132	-0.189	-0.075	0.017
3	0.020	-0.225	-0.275	-0.177	0.014
4	0.030	-0.309	-0.349	-0.267	0.012
5	0.040	-0.355	-0.390	-0.318	0.011
6	0.050	-0.476	-0.510	-0.448	0.009
7	0.075	-0.544	-0.570	-0.517	0.008
8	0.100	-0.403	-0.424	-0.379	0.007
9	0.150	-0.393	-0.407	-0.375	0.005
10	0.200	-0.475	-0.490	-0.460	0.004
11	0.250	-0.333	-0.344	-0.319	0.004
12	0.300	-0.397	-0.408	-0.385	0.003
13	0.350	-0.253	-0.264	-0.239	0.003
14	0.400	-0.235	-0.246	-0.224	0.003
15	0.450	-0.194	-0.208	-0.185	0.003
16	0.500	-0.157	-0.168	-0.147	0.004
62	0.550	-0.254	-0.267	-0.242	0.003
18	0.600	-0.079	-0.091	-0.069	0.003
63	0.650	-0.062	-0.073	-0.053	0.003
20	0.700	-0.177	-0.189	-0.166	0.003
21	0.750	-0.023	-0.041	-0.008	0.006
22	0.800	0.025	0.002	0.041	0.008
66	0.850	-0.079	-0.105	-0.066	0.004
25	0.950	0.009	-0.004	0.020	0.004
26	1.000	0.165	0.157	0.173	0.003

Lower surface at ETA = 0.60

27	0.010	0.269	0.221	0.318	0.014
28	0.020	-0.016	-0.061	0.033	0.013
30	0.050	-0.239	-0.268	-0.207	0.009
31	0.100	-0.382	-0.405	-0.359	0.006
32	0.200	-0.387	-0.407	-0.368	0.004
33	0.300	-0.204	-0.218	-0.187	0.004
34	0.400	-0.163	-0.175	-0.150	0.004
35	0.500	-0.264	-0.275	-0.253	0.004
36	0.600	-0.183	-0.194	-0.173	0.003
37	0.700	-0.136	-0.147	-0.124	0.003
38	0.800	0.053	0.042	0.064	0.003

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	1.092	1.075	1.106	0.005
70	0.010	0.043	-0.010	0.087	0.015
71	0.020	-0.297	-0.342	-0.259	0.012
72	0.030	-0.363	-0.401	-0.332	0.010
73	0.040	-0.413	-0.444	-0.384	0.009
74	0.050	-0.273	-0.299	-0.249	0.008
75	0.075	-0.304	-0.327	-0.283	0.006
76	0.100	-0.314	-0.330	-0.299	0.005
77	0.150	-0.285	-0.299	-0.270	0.005
78	0.200	-0.260	-0.276	-0.247	0.004
79	0.250	-0.375	-0.388	-0.364	0.003
81	0.350	-0.320	-0.332	-0.311	0.003
82	0.400	-0.268	-0.279	-0.259	0.003
83	0.450	-0.111	-0.121	-0.103	0.003
84	0.500	-0.185	-0.195	-0.177	0.003
85	0.550	-0.169	-0.180	-0.159	0.003
86	0.600	-0.032	-0.041	-0.022	0.003
87	0.650	-0.133	-0.143	-0.123	0.003
88	0.700	0.028	0.016	0.037	0.003
89	0.750	-0.067	-0.077	-0.058	0.003
90	0.800	0.041	0.033	0.049	0.003
91	0.850	0.082	0.073	0.094	0.003
92	0.900	0.009	0.001	0.019	0.003
93	0.950	0.005	-0.006	0.015	0.003
94	1.000	0.145	0.134	0.156	0.004

Lower surface at ETA = 0.95

95	0.010	0.202	0.163	0.244	0.013
96	0.020	0.083	0.048	0.120	0.011
97	0.030	-0.053	-0.082	-0.020	0.010
98	0.050	-0.237	-0.261	-0.212	0.007
99	0.100	-0.364	-0.381	-0.347	0.005
100	0.200	-0.171	-0.183	-0.158	0.004
101	0.300	-0.316	-0.327	-0.304	0.003
102	0.400	-0.236	-0.245	-0.227	0.003
103	0.500	-0.233	-0.246	-0.223	0.003
104	0.600	-0.029	-0.038	-0.020	0.003
105	0.700	-0.008	-0.017	0.002	0.003
106	0.800	0.022	0.011	0.033	0.003
107	0.900	0.094	0.085	0.102	0.003
108	0.950	0.069	0.060	0.077	0.003

TABLE 10. - Continued

Tab	Mach	q (psf)	α (deg)
670	0.30	127.9	2.00

The data was adjusted using wind-off zero 662

Upper surface at ETA = 0.60						Upper surface at ETA = 0.95					
Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev	Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	1.034	1.009	1.055	0.007	69	0.000	1.055	1.033	1.071	0.005
2	0.010	-0.341	-0.407	-0.284	0.018	70	0.010	-0.097	-0.152	-0.046	0.015
3	0.020	-0.402	-0.457	-0.357	0.015	71	0.020	-0.415	-0.460	-0.373	0.012
4	0.030	-0.461	-0.508	-0.421	0.012	72	0.030	-0.461	-0.498	-0.427	0.010
5	0.040	-0.489	-0.530	-0.456	0.010	73	0.040	-0.499	-0.533	-0.467	0.009
6	0.050	-0.594	-0.628	-0.566	0.009	74	0.050	-0.347	-0.372	-0.322	0.008
7	0.075	-0.642	-0.673	-0.617	0.008	75	0.075	-0.363	-0.382	-0.340	0.006
8	0.100	-0.485	-0.506	-0.465	0.006	76	0.100	-0.360	-0.375	-0.344	0.005
9	0.150	-0.455	-0.476	-0.440	0.004	77	0.150	-0.318	-0.333	-0.301	0.005
10	0.200	-0.525	-0.540	-0.512	0.004	78	0.200	-0.284	-0.298	-0.271	0.004
11	0.250	-0.371	-0.384	-0.357	0.004	79	0.250	-0.393	-0.406	-0.376	0.003
12	0.300	-0.430	-0.443	-0.418	0.004	81	0.350	-0.331	-0.341	-0.319	0.003
13	0.350	-0.281	-0.294	-0.270	0.003	82	0.400	-0.278	-0.287	-0.269	0.003
14	0.400	-0.258	-0.269	-0.247	0.003	83	0.450	-0.117	-0.126	-0.107	0.003
15	0.450	-0.213	-0.224	-0.204	0.003	84	0.500	-0.190	-0.198	-0.181	0.003
16	0.500	-0.174	-0.183	-0.163	0.003	85	0.550	-0.173	-0.183	-0.163	0.003
62	0.550	-0.269	-0.279	-0.256	0.004	86	0.600	-0.034	-0.044	-0.024	0.003
18	0.600	-0.090	-0.104	-0.077	0.003	87	0.650	-0.135	-0.145	-0.123	0.003
63	0.650	-0.072	-0.083	-0.062	0.004	88	0.700	0.026	0.016	0.037	0.003
20	0.700	-0.185	-0.196	-0.175	0.004	89	0.750	-0.070	-0.078	-0.060	0.003
21	0.750	-0.028	-0.045	-0.010	0.006	90	0.800	0.039	0.030	0.048	0.003
22	0.800	0.021	0.000	0.039	0.008	91	0.850	0.079	0.070	0.089	0.003
66	0.850	-0.082	-0.095	-0.068	0.004	92	0.900	0.004	-0.006	0.013	0.003
25	0.950	0.008	-0.009	0.020	0.004	93	0.950	-0.002	-0.014	0.009	0.003
26	1.000	0.163	0.153	0.171	0.003	94	1.000	0.147	0.133	0.159	0.004
Lower surface at ETA = 0.60						Lower surface at ETA = 0.95					
27	0.010	0.418	0.376	0.459	0.012	95	0.010	0.312	0.274	0.354	0.012
28	0.020	0.129	0.088	0.170	0.012	96	0.020	0.186	0.149	0.221	0.011
						97	0.030	0.041	0.007	0.077	0.010
30	0.050	-0.135	-0.168	-0.107	0.008	98	0.050	-0.166	-0.191	-0.142	0.007
31	0.100	-0.301	-0.324	-0.283	0.006	99	0.100	-0.315	-0.332	-0.296	0.005
32	0.200	-0.335	-0.351	-0.320	0.004	100	0.200	-0.143	-0.155	-0.132	0.004
33	0.300	-0.164	-0.185	-0.151	0.004	101	0.300	-0.300	-0.310	-0.288	0.003
34	0.400	-0.136	-0.147	-0.125	0.003	102	0.400	-0.227	-0.239	-0.217	0.003
35	0.500	-0.243	-0.258	-0.231	0.004	103	0.500	-0.229	-0.244	-0.216	0.003
36	0.600	-0.170	-0.183	-0.158	0.003	104	0.600	-0.028	-0.038	-0.015	0.003
37	0.700	-0.127	-0.138	-0.114	0.004	105	0.700	-0.010	-0.020	-0.001	0.003
38	0.800	0.058	0.047	0.072	0.003	106	0.800	0.017	0.003	0.027	0.003
						107	0.900	0.086	0.075	0.095	0.003
						108	0.950	0.061	0.051	0.070	0.003

TABLE 10. - Concluded

Tab	Mach	q (psf)	α (deg)
672	0.30	127.9	4.01

The data was adjusted using wind-off zero 662

Upper surface at ETA = 0.60

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
1	0.000	0.805	0.756	0.855	0.014
2	0.010	-0.823	-0.895	-0.755	0.021
3	0.020	-0.798	-0.857	-0.744	0.016
4	0.030	-0.797	-0.844	-0.750	0.013
5	0.040	-0.780	-0.821	-0.748	0.011
6	0.050	-0.854	-0.893	-0.820	0.011
7	0.075	-0.842	-0.870	-0.813	0.008
8	0.100	-0.660	-0.681	-0.643	0.006
9	0.150	-0.588	-0.603	-0.573	0.005
10	0.200	-0.631	-0.643	-0.619	0.004
11	0.250	-0.458	-0.469	-0.442	0.003
12	0.300	-0.501	-0.515	-0.490	0.003
13	0.350	-0.340	-0.351	-0.331	0.003
14	0.400	-0.308	-0.318	-0.295	0.003
15	0.450	-0.254	-0.265	-0.244	0.003
16	0.500	-0.208	-0.222	-0.197	0.003
62	0.550	-0.297	-0.311	-0.288	0.003
18	0.600	-0.114	-0.125	-0.102	0.003
63	0.650	-0.091	-0.101	-0.081	0.003
20	0.700	-0.200	-0.210	-0.189	0.003
21	0.750	-0.039	-0.058	-0.023	0.006
22	0.800	0.013	-0.007	0.032	0.007
66	0.850	-0.085	-0.105	-0.072	0.004
25	0.950	0.009	-0.006	0.025	0.004
26	1.000	0.159	0.148	0.168	0.003

Lower surface at ETA = 0.60

27	0.010	0.667	0.633	0.700	0.010
28	0.020	0.386	0.350	0.419	0.010
30	0.050	0.069	0.043	0.097	0.008
31	0.100	-0.147	-0.167	-0.130	0.006
32	0.200	-0.233	-0.246	-0.216	0.005
33	0.300	-0.091	-0.106	-0.078	0.004
34	0.400	-0.082	-0.093	-0.072	0.003
35	0.500	-0.206	-0.217	-0.193	0.004
36	0.600	-0.142	-0.156	-0.128	0.004
37	0.700	-0.106	-0.118	-0.095	0.004
38	0.800	0.069	0.059	0.082	0.004

Upper surface at ETA = 0.95

Channel	x/c	Cp Mean	Cp Min	Cp Max	Std Dev
69	0.000	0.937	0.909	0.968	0.009
70	0.010	-0.406	-0.457	-0.349	0.017
71	0.020	-0.670	-0.710	-0.623	0.013
72	0.030	-0.671	-0.705	-0.633	0.011
73	0.040	-0.679	-0.711	-0.646	0.009
74	0.050	-0.505	-0.533	-0.476	0.008
75	0.075	-0.487	-0.507	-0.463	0.006
76	0.100	-0.460	-0.476	-0.443	0.005
77	0.150	-0.388	-0.402	-0.370	0.005
78	0.200	-0.336	-0.347	-0.315	0.004
79	0.250	-0.432	-0.443	-0.421	0.003
81	0.350	-0.357	-0.367	-0.341	0.003
82	0.400	-0.298	-0.308	-0.283	0.003
83	0.450	-0.134	-0.143	-0.120	0.003
84	0.500	-0.204	-0.214	-0.194	0.003
85	0.550	-0.186	-0.195	-0.176	0.003
86	0.600	-0.047	-0.057	-0.037	0.003
87	0.650	-0.147	-0.157	-0.137	0.003
88	0.700	0.014	0.001	0.025	0.004
89	0.750	-0.083	-0.092	-0.074	0.003
90	0.800	0.025	0.016	0.034	0.003
91	0.850	0.063	0.053	0.075	0.003
92	0.900	-0.015	-0.024	-0.005	0.003
93	0.950	-0.026	-0.037	-0.012	0.004
94	1.000	0.144	0.133	0.156	0.004

Lower surface at ETA = 0.95

95	0.010	0.509	0.476	0.538	0.010
96	0.020	0.375	0.343	0.405	0.010
97	0.030	0.214	0.187	0.241	0.008
98	0.050	-0.028	-0.051	-0.005	0.007
99	0.100	-0.219	-0.237	-0.201	0.005
100	0.200	-0.089	-0.104	-0.078	0.004
101	0.300	-0.268	-0.279	-0.257	0.003
102	0.400	-0.207	-0.217	-0.192	0.003
103	0.500	-0.220	-0.233	-0.210	0.003
104	0.600	-0.026	-0.035	-0.015	0.003
105	0.700	-0.015	-0.024	-0.003	0.003
106	0.800	0.006	-0.007	0.021	0.004
107	0.900	0.072	0.063	0.082	0.003
108	0.950	0.048	0.038	0.056	0.003

Figure 1. NACA 0012 airfoil model mounted in TDT.

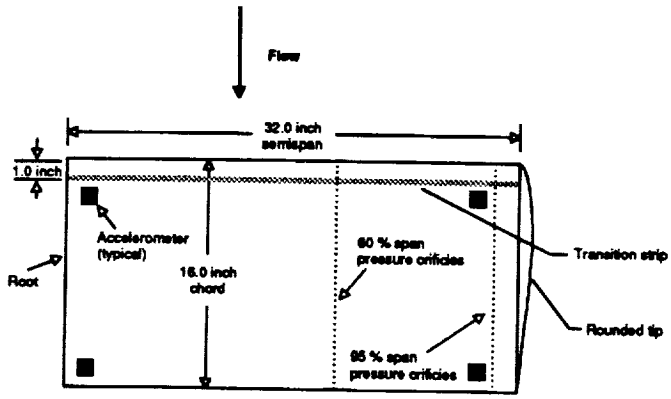

Figure 2. Wing model planform.

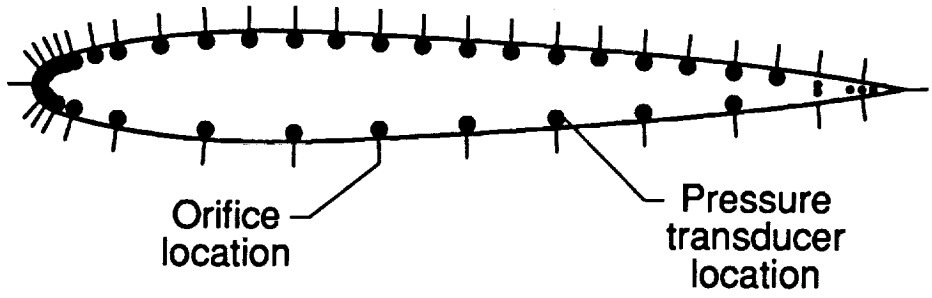

Figure 3. Orifice and pressure transducer locations at 60-percent and 95-percent span stations.

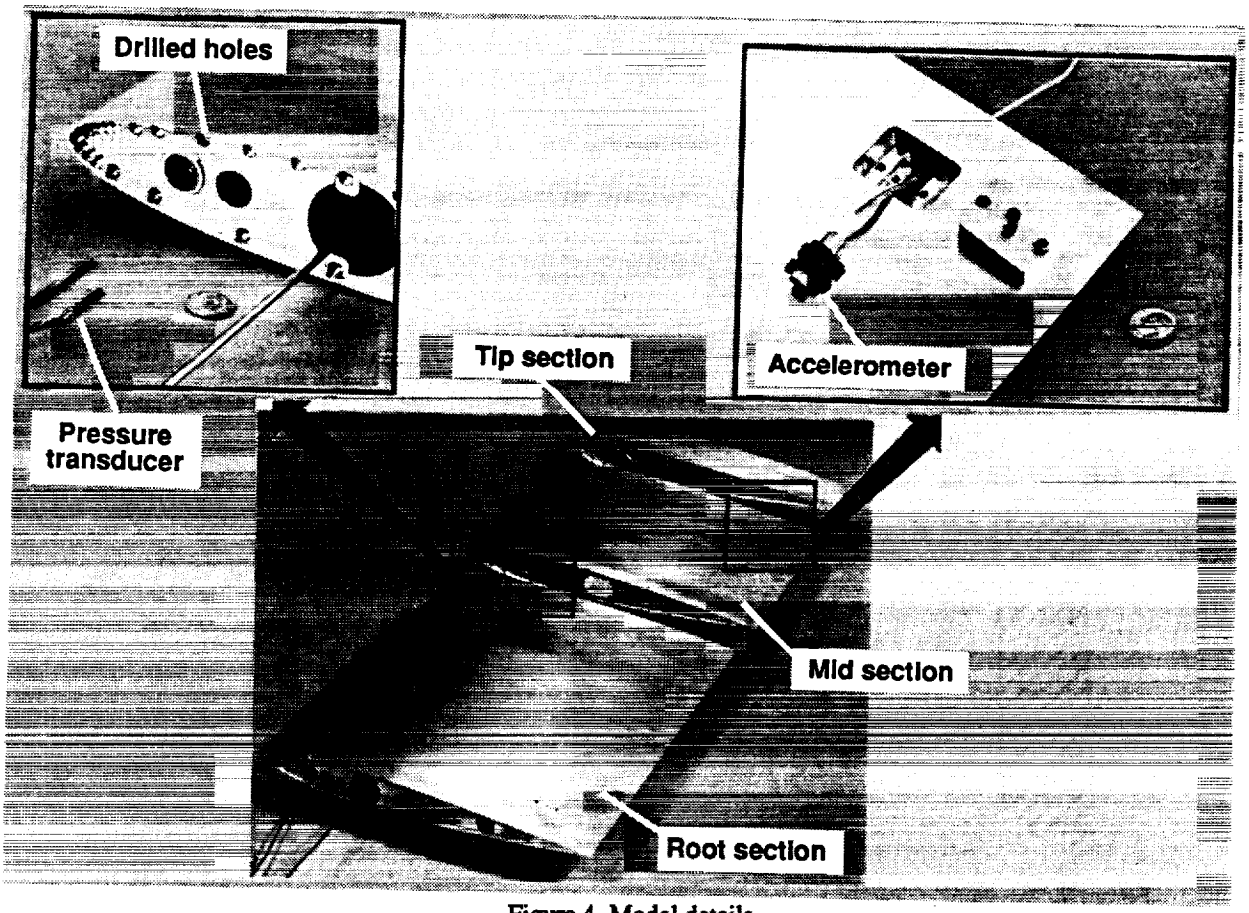

Figure 4. Model details.

ORIGINAL PAGE
BLACK AND WHITE PHOTOGRAPH

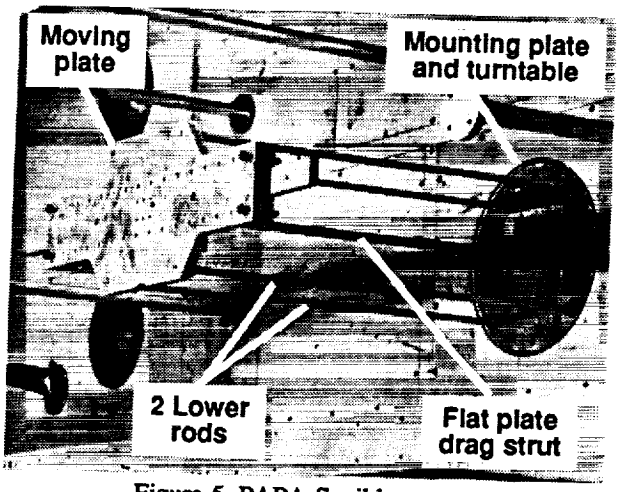

Figure 5. PAPA flexible mount.

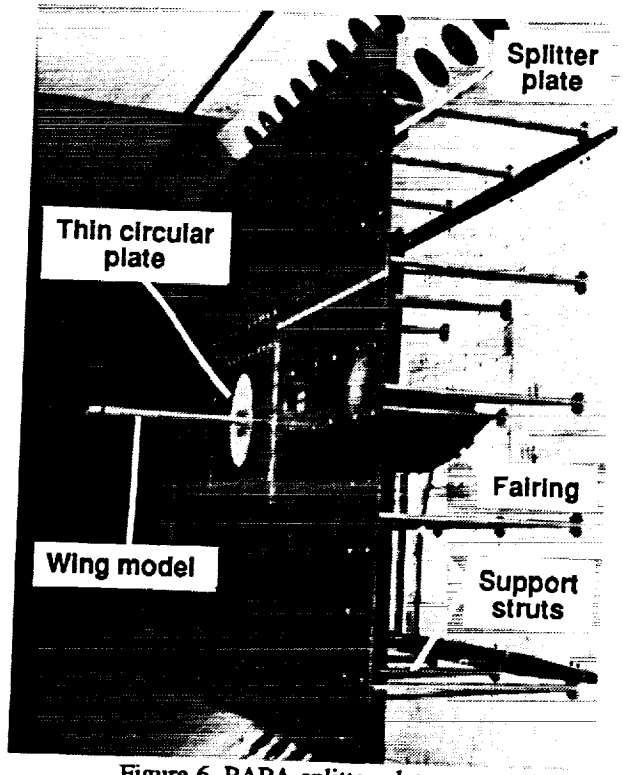

Figure 6. PAPA splitter plate.

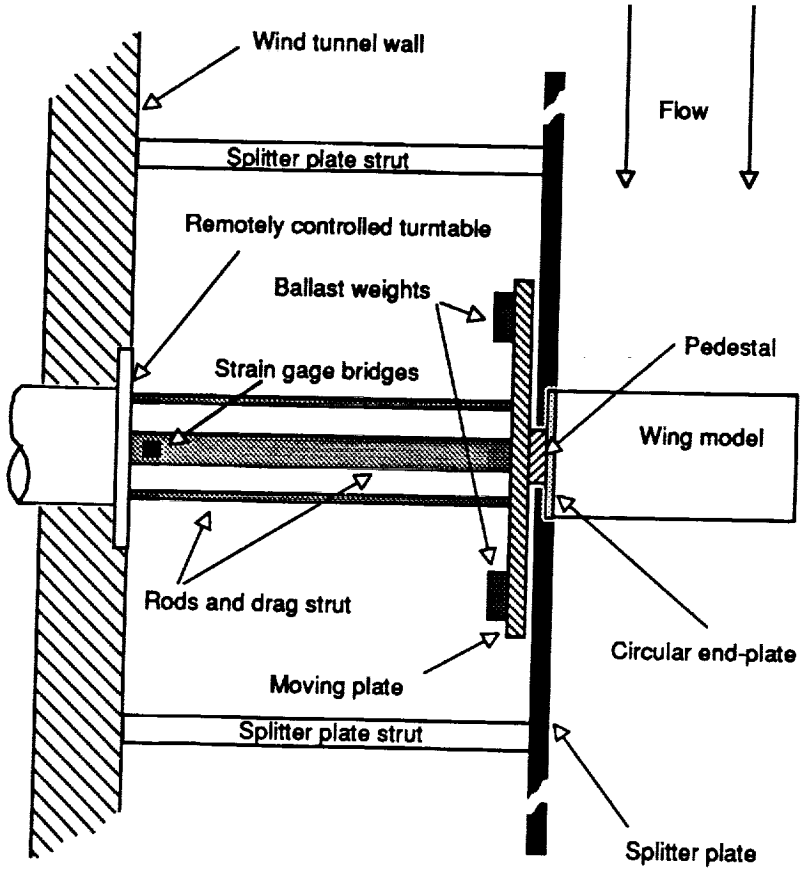

Figure 7. Top view sketch of the PAPA assembly (fairing over rods is not shown).

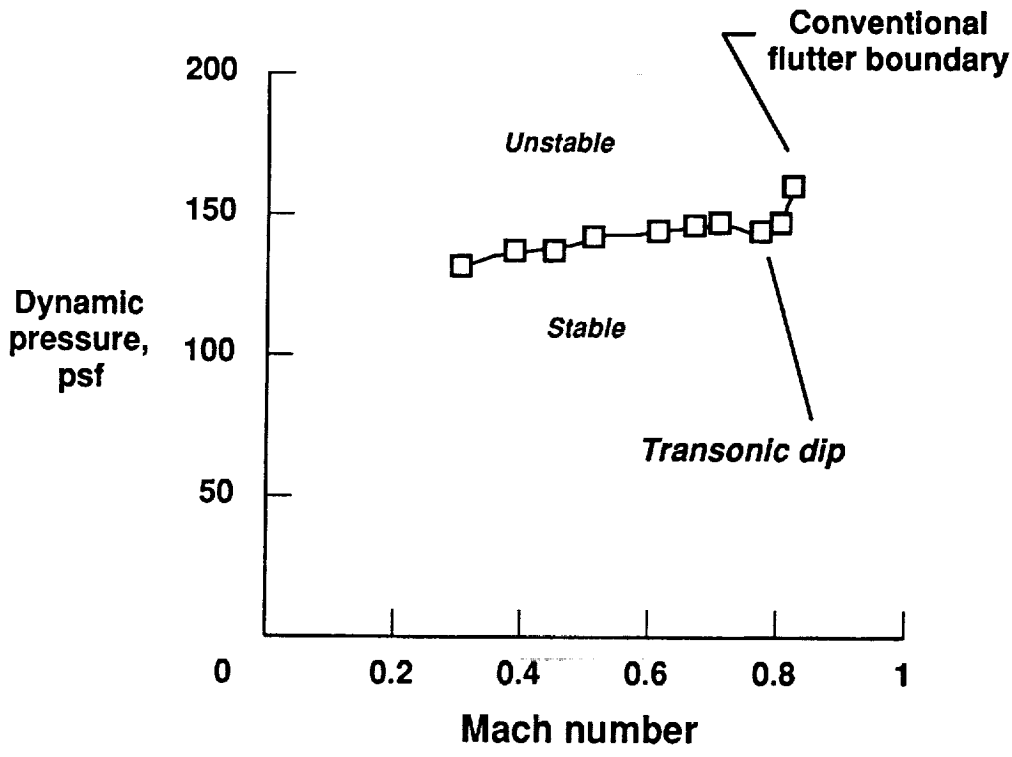

Figure 8. Conventional flutter boundary (α= 0 degrees).

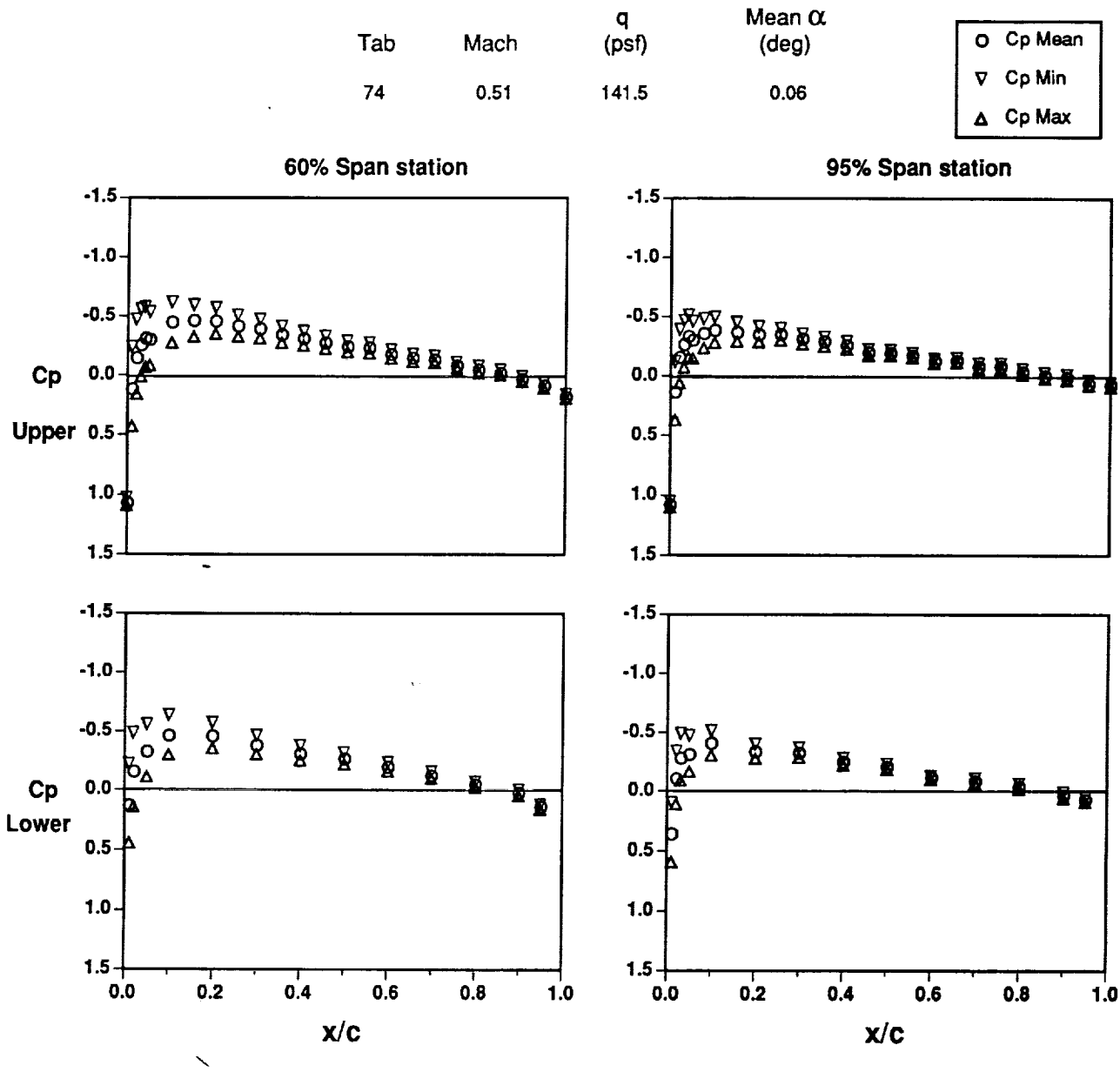

Figure 9. Steady pressure distribution during flutter for the 60 percent and 95 percent span station.

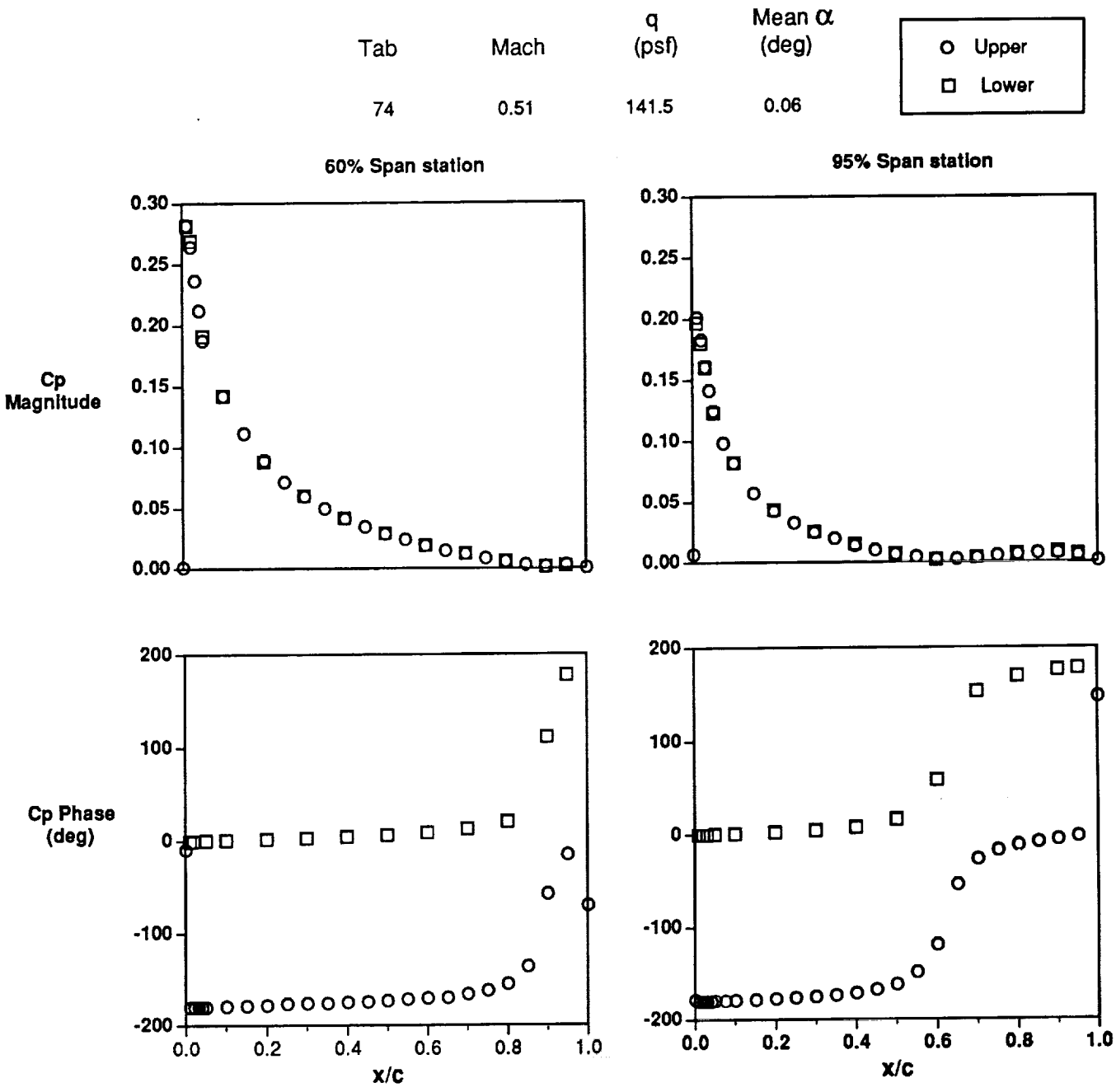

Figure 10. Unsteady pressure distribution during flutter for the 60 percent and the 95 percent span station.

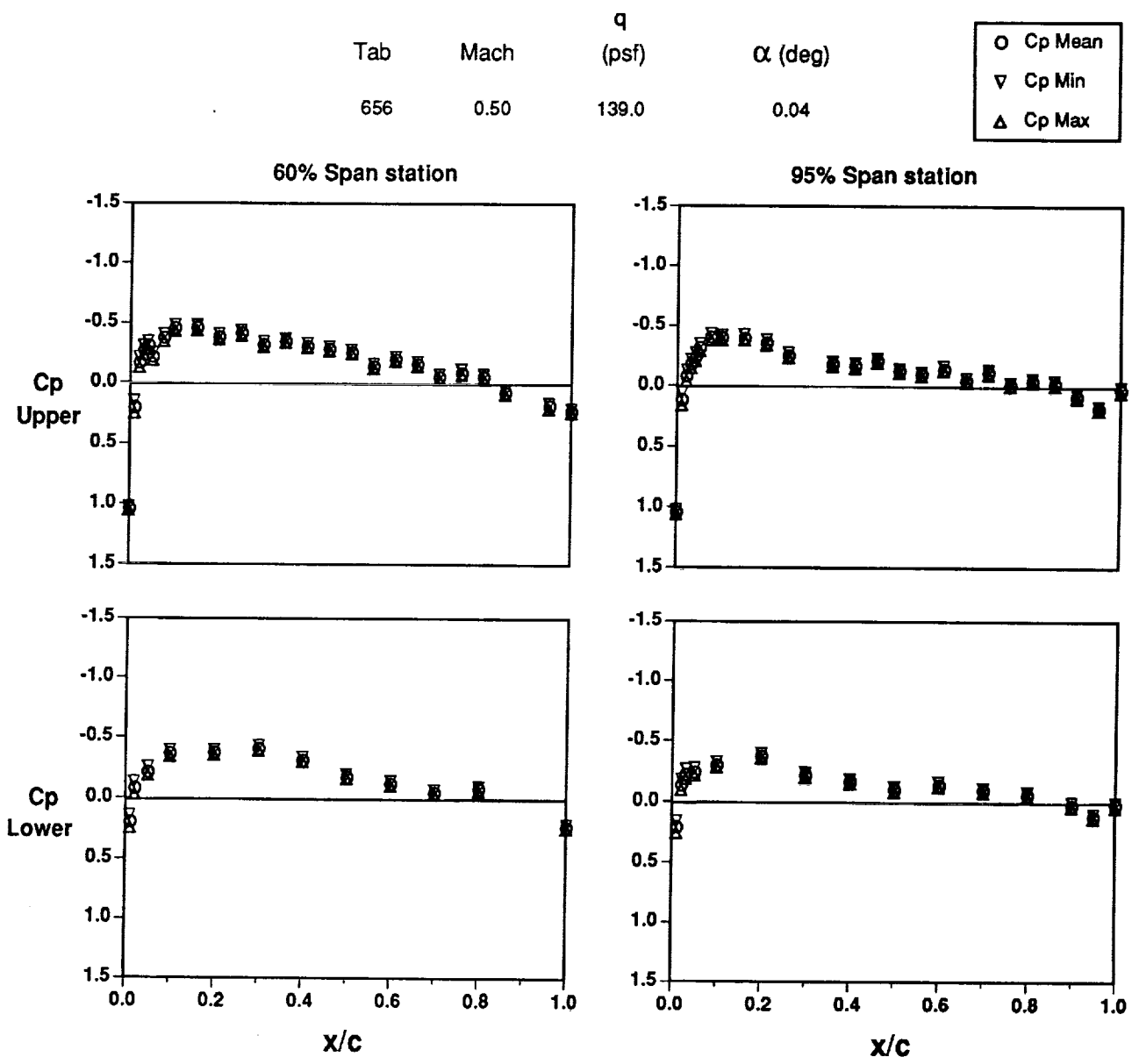

Figure 11. Steady pressure distribution results for the mount system rigidized.

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1. AGENCY USE ONLY *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	July 1992	Technical Memorandum

4. TITLE AND SUBTITLE PRESSURE MEASUREMENTS ON A RECTANGULAR WING WITH A NACA0012 AIRFOIL DURING CONVENTIONAL FLUTTER

5. FUNDING NUMBERS
505-63-50

6. AUTHOR(S) José A. Rivera, Jr., Bryan E. Dansberry, Michael H. Durham, Robert M. Bennett, and Walter A. Silva

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
NASA Langley Research Center
Hampton, Virginia 23665-5225

8. PERFORMING ORGANIZATION REPORT NUMBER

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)
National Aeronautics and Space Administration
Washington, DC 20546-0001

10. SPONSORING / MONITORING AGENCY REPORT NUMBER
NASA TM 104211

11. SUPPLEMENTARY NOTES

12a. DISTRIBUTION / AVAILABILITY STATEMENT
Unclassified - Unlimited
Subject Category 02

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

The Structural Dynamics Division at NASA Langley Research Center has started a wind tunnel activity referred to as the Benchmark Models Program. The primary objective of the program is to acquire measured dynamic instability and corresponding pressure data that will be useful for developing and evaluating aeroelastic type CFD codes currently in use or under development. The program is a multi-year activity that will involve testing of several different models to investigate various aeroelastic phenomena. The first model consisted of a rigid semispan wing having a rectangular planform and a NACA 0012 airfoil shape which was mounted on a flexible two degree-of-freedom mount system. Two wind-tunnel tests have been conducted with the first model. Several dynamic instability boundaries were investigated such as a conventional flutter boundary, a transonic plunge instability region near Mach=0.90, and stall flutter. In addition, wing surface unsteady pressure data were acquired along two model chords located at the 60 and 95-percent span stations during these instabilities. At this time, only the pressure data for the conventional flutter boundary is presented. This paper presents the conventional flutter boundary and the wing surface unsteady pressure measurements obtained at the conventional flutter boundary test conditions in pressure coefficient form. This paper also contains wing surface steady pressure measurements obtained with the model mount system rigidized. These steady pressure data were acquired at essentially the same dynamic pressure at which conventional flutter had been encountered with the mount system flexible.

14. SUBJECT TERMS
Flutter
Pressure Distributions

15. NUMBER OF PAGES
131

16. PRICE CODE
A07

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
Unclassified	Unclassified	Unclassified	Unlimited