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RESEARCH MEMORANDUM

AERODYNAMIC CHARACTERISTICS INCLUDING PRESSURE DISTRIBUTIONS OF A FUSELAGE AND THREE COMBINATIONS OF THE FUSELAGE WITH SWEPT-BACK WINGS AT HIGH SUBSONIC SPEEDS

By Fred B. Sutton and Andrew Martin

Ames Aeronautical Laboratory
Moffett Field, Calif.

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RESEARCH MEMORANDUM

AERODYNAMIC CHARACTERISTICS INCLUDING PRESSURE DISTRIBUTIONS OF A FUSELAGE AND THREE COMBINATIONS OF THE FUSELAGE WITH SWEPT-BACK WINGS AT HIGH SUBSONIC SPEEDS

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SUMMARY

As part of an NACA transonic research program, a series of wing-fuselage combinations varying chiefly in wing plan form is being investigated. In the part of the investigation reported herein, three representative model wings of the series were tested at Mach numbers up to 0.94 in the Ames 16-foot high-speed wind tunnel. All these model wings had NACA 65A006 sections parallel to the plane of symmetry.

Force and pitching-moment data and tabulated pressure measurements are presented for the wing-fuselage combinations and for the fuselage alone. Downwash angles and dynamic-pressure characteristics measured at probable horizontal-tail locations are shown. Also presented are tuft studies of the wing-fuselage combinations, approximate effects of wing elasticity on lift and pitching moment, and a comparison of data from this investigation with theory and with results from investigations in the Langley high-speed 7- by 10-foot wind tunnel utilizing the transonic-bump technique.

Results show that lift-curve slopes for all the wings investigated increased with Mach number. Compressibility effects on drag were generally small. More abrupt changes in stability occurred at lower lift coefficients for the wing with 45° of sweepback and an aspect ratio of 6 than for the other wing-fuselage combinations. Slight increases in static longitudinal stability were observed at the higher Mach numbers for all the wings investigated.

A comparison of data from this investigation with that from investigations of similar models on the transonic bump in the Langley high-speed 7- by 10-foot wind tunnel generally shows poor correlation quantitatively; agreement qualitatively is fair. Possible reasons for this lack of agreement are suggested.

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Results of this investigation indicate large effects of aeroelastic deformation on the lift-curve slopes and on the longitudinal stability of the models. The wing with 45° of sweepback and an aspect ratio of 6 indicated a maximum decrease in lift-curve slope of approximately 30 percent and a forward shift in neutral point of approximately 10 percent. Smaller aeroelastic effects were observed for the other wing-fuselage combinations.

INTRODUCTION

A coordinated transonic research program has been established by a special NACA transonic subcommittee. An objective of this program is to investigate the relative importance of various wing-plan-form variables and to provide experimental data for a wide range of wing plan forms, particularly at transonic speeds. An extensive investigation of these variables has been made in the Langley high-speed 7- by 10-foot wind tunnel utilizing the transonic bump, which provides a method of testing models at Mach numbers near unity.

In order to obtain data at higher Reynolds numbers than were attainable in the Langley high-speed 7- by 10-foot wind-tunnel investigations, three representative model wings of the series tested in that wind tunnel were tested in the Ames 16-foot high-speed wind tunnel at Mach numbers up to 0.94 and Reynolds numbers which varied between 2.6 and 5.1 million. The wings were tested in combination with a fuselage similar to the one used in the 7- by 10-foot wind-tunnel investigations. The results are reported herein and are compared with results for three similar model wings tested on the transonic bump (references 1, 2, and 3).

NOTATION

The coefficients and symbols used in this report are defined as follows:

C_D drag coefficient $\left(\frac{\text{drag}}{q_o S}\right)$

C_L lift coefficient $\left(\frac{\text{lift}}{q_o S}\right)$

C_m pitching moment about the quarter chord of the wing mean aerodynamic chord $\left(\frac{\text{pitching moment}}{q_o S \bar{c}}\right)$

A aspect ratio $\left(\frac{b^2}{S}\right)$

M Mach number

P pressure coefficient $\left(\frac{p-p_o}{q_o}\right)$

S wing area, square feet

V velocity, feet per second

a.c. aerodynamic center

b wing span, feet

c wing chord parallel to the free stream, feet

$\bar{c}$ wing mean aerodynamic chord $\left(\frac{\int_o^{b/2} c^2 dy}{\int_o^{b/2} c\ dy}\right)$, feet

p static pressure, pounds per square foot

q dynamic pressure $\left(\frac{1}{2}\rho V^2\right)$, pounds per square foot

y lateral distance from the model plane of symmetry, feet

α angle of attack of wing-root chord line, degrees

ϵ downwash angle relative to the free stream, degrees

θ angle of twist of wing chord relative to the wing-root chord, positive with trailing edge up, degrees

θ_t' angle of twist at the wing tip for an equivalent linear spanwise distribution of twist, degrees

Λ angle of sweepback of the wing quarter-chord line, degrees

λ taper ratio $\left(c_t/c_r\right)$

ρ mass density of air, slugs per cubic foot

Subscripts

o free-stream conditions

r wing root

t wing tip

u uncorrected for tunnel-wall effects

MODEL AND APPARATUS

One of the model wing-fuselage combinations mounted in the Ames 16-foot high-speed wind tunnel is shown in figure 1. Dimensions and details of the various models tested are given in figures 2 and 3.

The fuselage was a body of revolution with a fineness ratio of 12 modified to accommodate a sting-type model support by removing the rear one-sixth of the body and increasing the diameter slightly at the rear end. The increased diameter was faired forward with straight-line elements to the points of tangency with the basic shape (fig. 2(a)). These changes resulted in a fuselage fineness ratio of 10. The model fuselage was constructed of steel and aluminum sections machined to shape. Ninety pressure orifices were placed along the right side of the fuselage at fifteen transverse sections as shown in figure 2(b).

The wings were constructed with a thin layer of a tin-bismuth alloy over steel spars and were approximately 30 percent as rigid as solid steel wings of the same dimensions. One hundred pressure orifices were installed in the right half of each wing at five sections parallel to the air stream (fig. 3(b)).

A sting-type model-support system was used with a wire-resistance strain-gage balance enclosed in the fuselage to measure lift, drag, and pitching moment. Tubes from the pressure orifices in the models were led through the model-support system to multiple manometers where the pressure data were recorded photographically. The angle of attack was indicated by means of a pendulum-operated selsyn transmitter, also enclosed in the fuselage. Wing-tip angles were measured visually with a protractor attached to one of the wind-tunnel windows.

A survey rake used to measure downwash angles and dynamic pressures was clamped to the support sting just behind the fuselage. The rake was equipped with 10 calibrated pitch heads for determining downwash angles. Static-pressure orifices on each pitch head and 20 total-pressure tubes were provided for the dynamic-pressure survey. Figures 1 and 2(a) show the survey rake in place behind the model and figure 4 presents dimensions and details of the rake.

TESTS

Test Conditions

Force and pressure measurements were made on the fuselage alone and on the three wing-fuselage combinations. Angles of attack of the wing tips were measured to determine the degree of twist of the wings under the aerodynamic loads. Downwash angles and dynamic pressures were measured at probable horizontal-tail locations. Tuft studies were made of the flow over the wing-fuselage combinations.

The tests covered a Mach number range from 0.40 to 0.94. The Reynolds number varied from approximately 3.2 million to 5.1 million based on the mean aerodynamic chord of the wing with an aspect ratio of 4. The Reynolds number for the wings with an aspect ratio of 6 varied from approximately 2.6 million to 4.2 million. The angle-of-attack range was from -4° to the highest positive angles attainable within the structural limits of the model wings.

Test Mach numbers were maintained within ±0.5 percent of the indicated values. It is estimated that angle-of-attack measurements were accurate to $\pm 0.1^{\circ}$ and wing-tip angles were read to $\pm 0.2^{\circ}$. Downwash angles are estimated to be accurate to within $\pm 0.2^{\circ}$ of the values shown.

Corrections

Induced tunnel-wall effects.- Corrections for the effects of the tunnel walls on the induced flow angles were computed by the method of reference 4. The corrections added to the angle of attack and to the drag coefficient were as follows:

$$\Delta\alpha = 0.302\ C_L$$

$$\Delta C_D = 0.00526\ C_L^2$$

No corrections have been made to the downwash data for induced tunnel-wall effects, but it is estimated that the magnitude of such corrections would be approximately one and one-half times the correction shown for angle of attack. No corrections have been applied to the pressure data for induced tunnel-wall effects.

Constriction.– Constriction effects were calculated by the method of reference 5. The magnitude of the corrections is shown below:

Corrected Mach number	Uncorrected Mach number
0.400	0.400
.600	.600
.700	.698
.750	.747
.800	.797
.820	.816
.840	.833
.860	.852
.880	.871
.900	.888
.920	.907
.940	.922

No account was taken of the sweepback angle of the wings in computing either the induced wind-tunnel-wall effects or the constriction corrections.

Sting interference.– In order to correct partially the drag data for sting interference, static pressures were measured at the base of the model fuselage. The difference between these measured base pressures and the free-stream static pressure was used in conjunction with the fuselage cross-sectional area at the base of the model to calculate increments that would correct the drag coefficients approximately to what they would be with free-stream static pressure at the base of the model. The following increments, calculated in this manner, were added to the measured drag coefficients:

Corrected Mach number	ΔC_D
0.400	0.0007
.600	.0011
.700	.0011
.750	.0011
.800	.0011
.820	.0011
.840	.0012
.860	.0012
.880	.0013
.900	.0016
.920	.0017
.940	.0020

The corrections were unaffected by variation of angle of attack. The effect of the wind-tunnel longitudinal pressure gradient on drag was negligible.

Aeroelasticity.- The model wings investigated deformed elastically under the aerodynamic loads to which they were subjected. These deformations, for the most part, appeared as wing bending which, for the swept wings, caused a relative rotation of the streamwise chords, resulting in an effective twist along the spans of the wings. In the interest of making the results of the present investigation more convenient for the design of wings of different stiffnesses and hence subject to different aeroelastic effects, it would be desirable to correct the present results for aeroelasticity and to thereby reduce them to rigid-wing characteristics that could be adjusted then for the aeroelastic effects of actual wings of any stiffness; or alternatively, to describe the elastic deformation of the test wings so that their deformed shapes could be used as the starting point from which to adjust for the aeroelastic effects of any actual wing. Unfortunately, it has been impossible to do either with any degree of exactness. However, an approximation of the aeroelastic twist of the test wings and their effects on the slopes of the lift curves and the pitching-moment curves for the model wings used in this investigation are shown in figures 5 and 6.

The spanwise variations of twist shown by the solid lines in figure 5(a) were calculated on the basis of the elastic properties of the model wing structures, assuming linear spanwise distribution of lift. Figure 5(a) also shows an assumed linear twist distribution for the wings tested. It was found by the method of reference 6 (Weissinger) that the linear twist distribution shown is approximately equivalent to the calculated twist distributions in its effect on the aerodynamic characteristics of the wings. This linear distribution was used in conjunction with the measured wing-tip deflection angles, the measured lift on the wings, and the free-stream dynamic pressure to calculate the equivalent wing-tip twist per unit lift coefficient shown in figure 5(b) for various Mach numbers. It is to be noted that the resulting values of equivalent wing-tip twist shown in figure 5(b) are approximately 20 percent larger than the measured values.

To obtain a measure of the effect of the elasticity of the model wings on the lift and moment characteristics, the computed characteristics of rigid wings are compared with the observed characteristics of the elastic models. The starting point was the elastic wing at a lift coefficient of 0.2 for which (1) the angle of attack and pitching-moment coefficients were known from the present experimental investigation, and (2) the magnitude of the equivalent tip twist was determined from figure 5(b). Next, for a rigid wing having this twist, the angle of attack and the pitching-moment coefficient for zero lift were calculated by means of the charts of reference 6. The lift-curve and the

pitching-moment-curve slopes for the rigid wing were then computed from the following relations:

$$\left(\frac{dC_L}{d\alpha}\right)_{rigid} = \frac{0.2}{\alpha_{0.2} - \alpha_0}$$

$$\left(\frac{dC_m}{dC_L}\right)_{rigid} = \frac{C_{m_{0.2}} - C_{m_0}}{0.2}$$

where the subscripts refer to the lift coefficients at which the values were taken. These rigid-wing values were then compared with the measured elastic-wing values for zero lift. The comparisons are shown in figure 6 as the ratios of rigid-wing to elastic-wing lift-curve slopes, and as the difference between rigid-wing and elastic-wing pitching-moment-curve slopes.

The results in figure 6 include such viscous effects as appeared in the elastic-wing data over the lift interval used in the computation of the rigid-wing characteristics (lift coefficient 0 to 0.2). The results of figure 6 are believed to be applicable at moderately higher lift coefficients as long as the wing lift and pitching-moment characteristics remain approximately linear. However, these results will not apply when the wing characteristics depart from linearity since this is an indication of an appreciable change in viscous effects.

No corrections have been made to the drag data for the deformation of the model wings under the air loads.

Balance interaction.- No corrections were made for interaction of lift and pitching moment on the balance drag readings since the degree of interaction varied during the investigation. In general, this effect was small and caused the drag readings to be slightly high at the higher lift coefficients. Interaction between the other balance components was negligible. While the precision of the force and moment data is not indicated, the data presented herein, with the exception of a few points at high lift coefficients, are plotted within the accuracy of the strain-gage balance.

Tares.- Corrections were made throughout the angle-of-attack range to account for the static tares due to the weight of the model.

RESULTS AND DISCUSSION

Pressure Measurements

The pressures measured on the fuselage and on the three wing-fuselage combinations are presented in coefficient form in tables I to VII. Each table shows the pressure coefficients at various stations on the wings or the fuselage for various Mach numbers and angles of attack. The designations of the wing and fuselage stations used in the tables are shown in figures 2(b) and 3(b). Table I shows the pressure coefficients measured on the fuselage alone. Tables II, III, and IV show pressure coefficients on the fuselage when in combination with the three different wings. Tables V, VI, and VII show pressure coefficients on the three different wings in combination with the fuselage.

To expedite publication of these results, the pressure data have not been analyzed. However, typical plots of pressure coefficients measured at 75 percent of the semispan on the wing having 45° of sweepback and an aspect ratio of 4 are shown in figure 7 for several Mach numbers.

Basic Aerodynamic Characteristics

Lift, drag, and pitching-moment characteristics of the three swept-back wings in combination with the fuselage are presented in figures 8, 9, and 10 without correction for elastic distortion under aerodynamic load. The variation of lift coefficient with angle of attack is shown in figure 8. Due to structural limitations of the models, maximum lift was not reached for any of the models. The variation of pitching moment with lift is shown in figure 10. At low Mach numbers, the wing with 45° of sweepback and an aspect ratio of 6 became very unstable at a lift coefficient of approximately 0.45; whereas comparable changes in stability are delayed on the other wings to a lift coefficient of approximately 0.6. The force and moment data for the fuselage alone are presented in figure 11. The coefficients are based on the total wing area and on the mean aerodynamic chord of the wings having an aspect ratio of 6.

Lift-Curve Slopes

The variations of lift-curve slope with Mach number at a lift coefficient of 0.2 are shown in figure 12 for the three wing-fuselage combinations. Measured slopes, measured slopes corrected for aeroelastic

effects, the transonic-bump data from references 1, 2, and 3, and the theoretical variations of the lift-curve slopes with Mach number are shown. The theoretical variations of lift-curve slope with Mach number were calculated by the method of reference 7, using an application of the Prandtl-Glauert rule. These theoretical variations were then applied to the slopes which were measured at 0.40 Mach number and corrected for aeroelastic effects.

Lift-curve slopes generally increased with Mach number for all the plan forms tested; however, a reversal of this trend is indicated at the highest Mach number of the tests. The theoretical variation of lift-curve slope with Mach number was less than the measured variation corrected for elasticity.

The data from this investigation show some qualitative agreement with the transonic-bump data of references 1, 2, and 3, but agreement is poor quantitatively. It is believed the lack of agreement is due, at least in part, to the low Reynolds numbers of the bump tests and to the basic limitations of the bump method of testing (reference 7).

The effects of aeroelastic distortion on the lift-curve slopes were large. At the highest Mach number of the test, the model distortion caused a 30-percent reduction in lift-curve slope of the wing with 45° of sweepback and an aspect ratio of 6. Smaller effects were calculated for the other wings. These results serve to emphasize the importance of aeroelastic effects on the aerodynamic characteristics of thin swept-back wings, not only from the standpoint of obtaining reliable data from wind-tunnel tests, but also with regard to the performance of the airplane. For example, the structure of the model wing with 45° of sweepback, an aspect ratio of 6, and NACA 65A006 sections was such that its flexibility was about the same as the flexibility of a geometrically similar airplane wing designed for a wing loading of 60 pounds per square foot and a load factor of 5. The other two model wings were considerably less flexible in comparison with typical airplane construction. Since the dynamic pressure at the highest Mach number of the tests corresponded to a flight altitude of 15,000 feet, it is evident that aircraft flying at high subsonic speeds and moderate altitudes may be susceptible to large effects of aeroelastic deformations. All the performance parameters of the airplane which depend upon the spanwise distribution of lift will be affected, including the lift-curve slope, longitudinal stability, induced drag, downwash distribution, and wing bending moments.

Static-Longitudinal Stability

The variation of the stability parameter dC_m/dC_L with Mach number is shown for 0.2 lift coefficient in figure 13. Measured data, measured

data corrected for aeroelasticity, and data from the transonic-bump tests reported in references 1, 2, and 3 are presented. Aeroelastic effects were large, causing a maximum increase of pitching-moment-curve slope of 0.097 for the wing with 45° of sweepback and an aspect ratio of 6. This increase is equivalent to a forward shift of the neutral point of almost 10 percent of the mean aerodynamic chord. In general, static longitudinal stability corrected for aeroelasticity increased with Mach number for all the plan forms investigated. The wing with 45° of sweepback and an aspect ratio of 4 and the wing with 35° of sweepback and an aspect ratio of 6 indicated large stability increases at the higher Mach numbers. In general, stability results from this investigation are in poor agreement with those from the transonic-bump tests. The transonic-bump data indicate large decreases in stability beginning at 0.2 to 0.3 lift coefficients for the various plan forms; whereas the data presented in figure 10 show instability beginning at 0.4 to 0.6 lift coefficients. The probable reasons for these differences have been discussed in the section on lift-curve slope.

Drag

The variations of drag coefficient with Mach number at lift coefficients of 0, 0.2, and 0.4 are presented in figure 14 for the three wing-fuselage combinations. Data from this investigation are compared with transonic-bump data from references 1, 2, and 3. In general, Mach number effects on the drag coefficients over the speed range of this investigation were small; the drag-divergence Mach number was not reached for any of the wings. It is believed that the decreases in drag coefficient with increasing Mach number shown at the higher lift coefficient are partially due to aeroelastic deformation of the wings. Drag coefficients from this investigation are considerably lower than the values shown in references 1, 2, and 3. The drag data, presented herein, on the whole agree more closely with results from other investigations of similar and nearly similar wing-fuselage configurations than do the transonic-bump data (reference 7).

Downwash and Dynamic Pressure

Downwash angles and gradients are shown for the wing-fuselage combinations in figures 15 and 16. Downwash gradients were maximum near the extended plane of the wing chord and decreased with increase in distance above this plane. The gradients shown (fig. 16) were measured 12 inches from the plane of symmetry of the model. Measurements made 6 inches from the plane of symmetry of the model (fig. 15) show the effect of the fuselage on the wing wake.

The results of the dynamic-pressure surveys are shown in figure 17. They indicate that at the higher Mach numbers the dynamic pressures at the center of the wing wake were approximately 10 to 15 percent less than free-stream dynamic pressure. The vertical displacement of the wake center with increase in angle of attack is apparent.

Tuft Studies

Figures 18, 19, and 20 show tufts on the three wing-fuselage combinations. The pictures indicate the spanwise boundary-layer flow due to sweepback and the stall progression from the tip inward with increase in angle of attack. The leading-edge type of separation common to thin wings with small leading-edge radii is also indicated.

CONCLUSIONS

The results of this investigation indicate the following conclusions:

1. In general, lift-curve slopes for all the wings investigated increased with Mach number. Compressibility effects on drag coefficients were generally small. More abrupt changes in stability occurred at lower lift coefficients for the wing with 45° sweepback and an aspect ratio of 6 than for the other wing-fuselage combinations. Slight increases in static-longitudinal stability were observed at the higher Mach numbers for all the wings investigated.

2. A comparison of data from this investigation with those from investigations of similar models on the transonic bump in the Langley high-speed 7- by 10-foot wind tunnel showed generally poor correlation quantitatively; agreement qualitatively was fair. It is believed that the lack of agreement was due, at least in part, to the low Reynolds numbers of the bump tests and to inherent limitations of the bump method of testing.

3. Results of this investigation indicate large effects of aeroelastic deformation on the lift-curve slopes and on the longitudinal stability of the models. The wing with 45° of sweepback and an aspect ratio of 6 underwent a maximum decrease in lift-curve slope of approximately 30 percent and a forward shift of the neutral point of approximately 10 percent. Smaller aeroelastic effects were observed for the other wing-fuselage combinations.

Ames Aeronautical Laboratory,
National Advisory Committee for Aeronautics,
Moffett Field, Calif.

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TABLE I.– PRESSURE COEFFICIENTS ON THE FUSELAGE ALONE.

(a) M,0.40.

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: −4, Upper surface	−4, Lower surface	−2, Upper surface	−2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
10	8.7	0.059	−0.007	0.046	0.013	0.013	0.007	0.010	0.026	0.016	0.065	−0.083	0.070
	42.3	.055	−.007	.049	.013	.013	.007	.016	.016	.013	.085	−.080	−.063
	70.7	.049	−.007	.039	.013	.010	.007	.020	.013	.010	.049	−.083	.033
15	8.7	.036	−.013	.016	−.016	−.023	−.026	−.023	−.007	−.016	.033	−.030	.036
	42.3	.046	−.013	.016	−.016	−.020	−.026	−.020	−.016	−.016	.023	−.030	.026
	70.7	.020	−.013	.016	−.016	−.023	−.026	−.020	−.016	−.013	.016	−.030	.003
20	8.7	.020	−.039	0	−.020	−.026	−.030	−.023	−.023	−.016	.016	−.036	.007
	42.3	.003	−.023	−.010	−.020	−.026	−.030	−.023	−.023	−.026	0	−.046	0
	70.7	−.013	−.029	−.016	−.020	−.033	−.030	−.026	−.023	−.023	−.010	−.053	−.026
25	8.7	−.007	−.029	−.026	−.026	−.030	−.030	−.026	−.023	−.020	−.020	−.049	−.003
	42.3	−.013	−.023	−.016	−.006	−.030	−.033	−.030	−.023	−.020	−.023	−.046	−.023
	70.7	−.013	−.029	−.020	−.006	−.036	−.033	−.033	−.023	−.033	−.013	−.060	−.030
28.50	8.7	−.013	−.020	−.026	−.023	−.033	−.043	−.033	−.023	−.020	−.010	−.040	−.023
	42.3	−.013	−.020	−.016	−.023	−.033	−.043	−.033	−.023	−.020	−.010	−.043	−.020
	70.7	−.016	−.029	−.020	−.023	−.053	−.043	−.030	−.026	−.023	−.016	−.056	−.030
31.50	8.7	−.013	−.020	−.020	−.042	−.033	−.043	−.033	−.030	−.026	−.016	−.053	−.030
	42.3	−.016	−.029	−.016	−.042	−.043	−.043	−.033	−.030	−.026	−.016	−.053	−.030
	70.7	−.020	−.029	−.042	−.042	−.053	−.043	−.033	−.026	−.010	−.016	−.060	−.033
34.50	8.7	−.013	−.023	−.016	−.026	−.026	−.043	−.023	−.023	−.016	−.013	−.033	−.023
	42.3	−.013	−.020	−.016	−.020	−.033	−.030	−.026	−.023	−.016	−.013	−.046	−.026
	70.7	−.016	−.029	−.020	−.026	−.043	−.036	−.026	−.023	−.023	−.016	−.046	−.030
38.00	8.7	−.013	---	−.016	---	−.053	---	−.023	---	−.020	---	−.036	---
	42.3	−.020	−.023	−.023	−.033	−.053	---	−.053	−.033	−.023	−.016	−.046	−.030
	70.7	−.020	−.020	−.023	−.023	---	---	−.030	−.023	−.023	−.016	−.044	−.030
41.50	8.7	−.013	−.029	−.016	−.026	---	−.059	−.013	−.030	−.016	−.016	−.036	−.026
	42.3	−.016	−.029	−.020	−.026	---	−.056	−.030	−.030	−.016	−.016	−.036	−.030
	70.7	−.039	−.029	−.033	−.026	---	−.056	−.039	−.030	−.023	−.016	−.044	−.046
44.50	8.7	---	−.020	---	−.026	---	−.053	---	−.026	---	−.016	---	−.030
	42.3	−.023	−.020	−.033	−.026	−.056	−.053	−.033	−.026	−.020	−.016	−.040	−.030
	70.7	−.036	−.039	−.042	−.033	−.056	−.053	−.039	−.039	−.020	−.033	−.040	−.046
47.50	8.7	−.016	−.029	−.020	−.033	−.043	−.053	−.030	−.026	−.020	−.016	−.036	−.030
	42.3	.013	−.023	.010	−.026	−.010	−.043	.010	−.026	.016	−.016	−.003	−.030
	70.7	−.039	−.029	−.039	−.026	−.053	−.053	−.026	−.033	−.020	−.020	−.046	−.036
50.50	8.7	−.039	---	−.033	---	−.059	---	−.039	---	−.020	---	−.056	---
	42.3	−.039	−.033	−.042	−.033	−.056	−.059	−.033	−.039	−.023	−.023	−.036	−.046
	70.7	−.042	−.036	−.046	−.033	−.056	−.059	−.049	−.039	−.026	−.033	−.050	−.056
53.50	8.7	---	−.029	---	−.033	---	−.056	---	−.033	---	−.023	---	−.030
	42.3	−.020	−.023	−.026	−.033	−.053	−.056	−.030	−.033	−.023	−.026	−.036	−.036
	70.7	−.042	−.029	−.042	−.033	−.056	−.056	−.039	−.033	−.023	−.033	−.036	−.053
56.50	8.7	−.029	−.035	−.033	−.035	−.056	−.035	−.033	−.029	−.023	−.029	−.030	−.035
	42.3	−.039	−.042	−.033	−.035	−.056	−.035	−.033	−.029	−.023	−.036	−.030	−.045
	70.7	−.045	−.052	−.035	−.045	−.039	−.045	−.023	−.032	−.029	−.045	−.035	−.058
59.50	8.7	−.042	−.029	−.042	−.029	−.035	−.029	−.029	−.013	−.029	−.036	−.029	−.032
	42.3	−.042	−.029	−.042	−.029	−.042	−.029	−.013	−.026	−.029	−.036	−.035	−.032
	70.7	−.055	−.055	−.045	−.055	−.035	−.055	−.026	−.045	−.045	−.052	−.035	−.058

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: 8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface	12, Upper surface	12, Lower surface	14, Upper surface	14, Lower surface	16, Upper surface	16, Lower surface	18, Upper surface	18, Lower surface
10	8.7	−0.023	0.092	−0.023	0.144	−0.036	0.151	−0.029	0.199	−0.049	0.211	−0.042	0.255
	42.3	−.023	.076	−.043	.111	−.056	.108	−.055	.134	−.072	.141	−.068	.165
	70.7	−.039	.043	−.059	.046	−.069	.036	−.094	.042	−.118	.036	−.126	.055
15	8.7	−.039	.059	−.052	.065	−.056	.108	−.049	.140	−.049	.174	−.058	.197
	42.3	−.046	.036	−.052	.052	−.069	.069	−.081	.081	−.085	.092	−.097	.186
	70.7	−.056	.010	−.079	.013	−.095	.003	−.094	.010	−.122	.010	−.106	[illegible]
20	8.7	−.053	.036	−.052	.062	−.062	.059	−.075	.107	−.049	.141	−.089	.158
	42.3	−.056	.018	−.059	.039	−.079	.036	−.081	.059	−.092	.072	−.100	.094
	70.7	−.072	−.016	−.085	−.016	−.102	−.026	−.104	−.093	−.118	−.086	−.139	−.019
25	8.7	−.056	.010	−.043	.045	−.056	.052	−.039	.075	−.039	.065	−.019	.142
	42.3	−.062	−.007	−.059	.013	−.079	.010	−.081	.042	−.105	.069	−.106	.062
	70.7	−.082	−.020	−.085	−.020	−.095	−.036	−.091	−.019	−.105	−.033	−.100	−.061
28.50	8.7	−.049	.010	−.036	.030	−.052	.036	−.039	.075	−.030	.082	−.089	.116
	42.3	−.053	−.016	−.052	.013	−.069	.003	−.081	.036	−.115	.072	−.116	.081
	70.7	−.072	−.023	−.079	−.026	−.089	−.098	−.088	−.046	−.099	−.062	−.097	−.061
31.50	8.7	−.053	−.007	−.045	.013	−.046	.036	−.039	.059	−.033	.076	−.089	.077
	42.3	−.056	−.023	−.052	−.013	−.069	−.003	−.085	.010	−.115	.013	−.106	.045
	70.7	−.072	−.039	−.075	−.045	−.089	−.056	−.085	−.055	−.062	−.072	−.094	−.065
34.50	8.7	−.023	−.020	−.020	.016	−.030	.030	−.023	.042	−.023	.076	−.023	.097
	42.3	−.053	−.023	−.052	−.007	−.069	−.003	−.081	.010	−.095	.013	−.110	.035
	70.7	−.056	−.039	−.056	−.049	−.069	−.062	−.081	−.075	−.082	−.082	−.094	−.071
38.00	8.7	−.030	---	−.020	---	−.030	---	−.023	---	−.046	---	−.038	---
	42.3	−.046	−.023	−.052	−.013	−.072	−.066	−.066	.003	−.115	.010	−.103	.029
	70.7	−.056	−.039	−.052	−.046	−.069	−.066	−.062	−.055	−.082	−.072	−.084	−.032
41.50	8.7	−.062	−.020	−.026	.013	−.036	.010	−.029	.046	−.030	.069	−.038	.094
	42.3	−.046	−.023	−.046	−.013	−.069	−.023	−.081	−.007	−.105	.007	−.100	.066
	70.7	−.056	−.053	−.052	−.052	−.066	−.069	−.072	−.072	−.052	−.082	−.094	−.100
44.50	8.7	---	−.023	---	.007	---	.003	---	−.036	---	.043	---	.068
	42.3	−.046	−.023	−.052	−.016	−.075	−.023	−.068	−.007	−.105	.007	−.084	.026
	70.7	−.056	−.056	−.052	−.059	−.069	−.069	−.062	−.061	−.089	−.086	−.068	−.094
47.50	8.7	−.023	−.023	−.020	−.003	−.030	.003	−.023	.033	−.026	.043	−.089	.062
	42.3	−.016	−.023	−.013	−.020	−.030	−.026	−.039	−.013	−.053	−.007	−.048	.008
	70.7	−.053	−.060	−.052	−.059	−.062	−.069	−.062	−.062	−.062	−.089	−.068	−.097
50.50	8.7	−.030	---	−.026	---	−.036	---	−.033	---	−.053	---	−.045	---
	42.3	−.046	−.059	−.052	−.036	−.079	−.036	−.085	−.023	−.095	−.023	−.097	−.003
	70.7	−.060	−.062	−.052	−.069	−.069	−.069	−.094	−.068	−.072	−.105	−.077	−.100
53.50	8.7	---	−.023	---	−.020	---	−.013	---	.010	---	.016	---	.045
	42.3	−.046	−.007	−.052	−.036	−.079	−.036	−.081	−.023	−.062	−.023	−.094	−.003
	70.7	−.049	−.072	−.052	−.069	−.062	−.069	−.062	−.068	−.066	−.115	−.072	−.109
56.50	8.7	−.030	−.045	−.020	−.036	−.036	−.029	−.029	.019	−.053	.023	−.051	.035
	42.3	−.046	−.052	−.046	−.052	−.072	−.052	−.078	−.029	−.068	−.029	−.077	−.029
	70.7	−.052	−.068	−.055	−.058	−.075	−.088	−.045	−.077	−.078	−.094	−.070	−.109
59.50	8.7	−.029	−.029	−.036	−.029	−.036	−.013	−.039	.019	−.039	.023	−.045	.035
	42.3	−.045	−.052	−.058	−.055	−.062	−.055	−.058	−.029	−.071	−.029	−.077	−.019
	70.7	−.055	−.068	−.055	−.078	−.058	−.068	−.045	−.077	−.061	−.084	−.073	−.115

NACA

TABLE I.– CONTINUED

(b) M,0.60.

Station (in.)	Lateral dimension (% fuselage radius)	−4 Upper surface	−4 Lower surface	−2 Upper surface	−2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
		Angle of attack, degrees											
10	8.7	0.077	0.010	0.049	0.080	0.044	0.035	0.017	0.043	0.003	0.048	−0.016	0.087
	42.3	.067	.012	.060	.080	.039	.035	.013	.042	.002	.060	−.015	.072
	70.7	.058	.012	.060	.088	.035	.032	.017	.035	.080	.046	−.018	.052
15	8.7	.044	−.012	.035	.002	.023	.010	−.007	.013	−.080	.037	−.037	.052
	42.3	.034	−.017	.052	−.008	.020	.007	−.007	.177	−.002	.038	−.042	.032
	70.7	.027	−.013	.023	−.002	.012	.008	−.005	.177	−.080	.022	−.045	.019
20	8.7	.017	−.030	.030	−.018	−.007	−.007	−.025	−.007	−.037	.010	−.049	.080
	42.3	.010	−.029	.005	−.018	−.004	−.018	−.025	−.015	−.040	−.008	−.054	.005
	70.7	−.002	−.034	0	−.029	−.013	−.018	−.028	−.022	−.080	−.022	−.062	−.015
25	8.7	0	−.017	.080	−.023	−.088	−.088	−.077	−.023	−.040	−.007	−.049	.002
	42.3	−.007	−.017	−.002	−.025	−.025	−.022	−.040	−.023	−.045	−.017	−.080	−.015
	70.7	−.018	−.037	−.018	−.023	−.023	−.023	−.040	−.025	−.048	−.023	−.065	−.032
28.50	8.7	−.003	−.030	−.008	−.017	−.028	−.080	−.038	−.025	.040	−.007	−.052	−.002
	42.3	−.012	−.030	−.006	−.017	−.023	−.028	−.040	−.023	.040	−.015	−.057	−.015
	70.7	−.020	−.035	−.015	−.023	−.023	−.023	−.040	−.032	−.043	−.028	−.085	−.032
31.50	8.7	−.018	−.034	−.015	−.028	−.025	−.023	−.040	−.030	−.040	−.022	−.050	−.025
	42.3	−.028	−.057	−.015	−.028	−.025	−.023	−.042	−.030	−.046	−.023	−.059	−.027
	70.7	−.029	−.039	−.017	−.022	−.035	−.023	−.040	−.030	−.042	−.027	−.065	−.042
34.50	8.7	0	−.034	.002	−.015	−.030	−.022	−.025	−.023	−.023	−.020	−.038	−.015
	42.3	−.015	−.029	−.013	−.015	−.023	−.022	−.037	−.025	−.037	−.028	−.049	−.028
	70.7	−.022	−.032	−.015	−.015	−.025	−.023	−.038	−.033	−.040	−.027	−.055	−.040
38.00	8.7	−.019	---	−.028	---	−.023	---	−.040	---	−.037	---	−.047	---
	42.3	−.025	−.034	−.017	−.027	−.027	−.023	−.040	−.033	−.040	−.027	−.028	−.038
	70.7	−.020	−.030	−.013	−.018	−.020	−.022	−.033	−.025	−.037	−.025	−.049	−.039
41.50	8.7	−.017	−.032	−.012	−.020	−.025	−.023	−.033	−.035	−.032	−.023	−.045	−.027
	42.3	−.024	−.038	−.018	−.020	−.027	−.023	−.035	−.035	−.036	−.028	−.049	−.035
	70.7	−.034	−.034	−.020	−.028	−.023	−.025	−.038	−.035	−.040	−.035	−.054	−.049
44.50	8.7	---	−.029	---	−.018	---	−.025	---	−.033	---	−.025	---	−.025
	42.3	−.029	---	−.017	−.017	−.032	−.023	−.040	−.038	−.040	−.025	−.049	−.032
	70.7	−.057	−.037	−.018	−.018	−.029	−.029	−.040	−.040	−.040	−.040	−.052	−.050
47.50	8.7	−.027	−.029	−.013	−.017	−.022	−.023	.035	−.028	−.025	−.025	−.038	−.029
	42.3	.010	−.024	.028	−.013	.012	−.023	.002	−.028	.008	−.023	.002	−.032
	70.7	−.032	−.034	−.027	−.015	−.023	−.025	−.037	−.033	−.057	−.035	−.049	−.049
50.50	8.7	−.034	---	−.018	---	−.038	---	−.040	---	−.038	---	−.047	---
	42.3	−.037	−.034	−.020	−.022	−.035	−.030	−.040	−.040	−.040	−.040	−.049	.049
	70.7	−.029	−.057	−.029	−.028	−.034	−.029	−.040	−.040	−.040	−.043	−.052	−.060
53.50	8.7	---	−.024	---	−.023	---	−.023	---	−.035	---	−.035	---	−.032
	42.3	−.034	−.029	−.018	−.028	−.030	−.023	−.038	−.038	−.037	−.038	−.049	−.047
	70.7	−.037	−.034	−.029	−.018	−.029	−.010	−.037	−.040	−.038	−.042	−.049	−.057
56.50	8.7	−.057	−.028	−.023	−.018	−.034	−.032	−.040	−.040	−.037	−.033	−.042	−.047
	42.3	−.039	−.022	−.029	−.018	−.037	−.032	−.042	−.042	−.038	−.042	−.049	−.002
	70.7	−.034	−.030	−.018	−.018	−.028	−.035	−.032	−.047	−.027	−.043	−.080	−.049
59.50	8.7	−.037	.012	−.022	.017	−.037	.017	−.040	.025	−.027	.023	−.042	.015
	42.3	−.037	−.028	−.025	−.034	−.037	−.028	−.034	−.034	−.027	−.035	−.048	−.052
	70.7	−.052	−.024	−.030	−.020	−.035	−.057	−.040	−.047	−.035	−.045	−.050	−.049

Station (in.)	Lateral dimension (% fuselage radius)	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface	14 Upper surface	14 Lower surface	16 Upper surface	16 Lower surface	18 Upper surface	18 Lower surface
		Angle of attack, degrees											
10	8.7	−0.020	0.116	−0.035	0.139	−0.037	0.173	−0.049	0.054	0.108	0.237	−0.068	0.278
	42.3	.080	.089	−.045	.106	−.058	.136	−.089	.149	−.015	.168	−.111	.166
	70.7	−.052	.064	−.065	.060	−.068	.005	−.101	.005	−.133	.206	−.166	.089
15	8.7	−.035	.073	−.057	.102	−.054	.136	−.082	.153	−.064	.183	−.065	.220
	42.3	−.045	.045	−.064	.055	−.064	.040	−.089	.094	−.114	.111	−.149	.136
	70.7	−.048	.015	−.082	.018	−.096	.018	−.114	.065	−.133	.002	−.149	−.015
20	8.7	−.045	.085	−.060	.064	−.084	.087	−.054	.111	−.082	.139	−.074	.171
	42.3	−.049	.028	−.073	.032	−.079	.049	−.052	.064	−.124	.058	−.166	.094
	70.7	−.067	−.018	−.096	−.088	−.107	−.083	−.116	−.089	−.133	−.040	−.149	−.058
25	8.7	−.037	.102	−.062	−.035	−.057	−.055	−.052	.084	−.082	.104	−.077	.136
	42.3	−.060	.002	−.081	.005	−.079	−.027	−.097	.035	−.186	.062	−.153	.040
	70.7	−.073	−.029	−.091	−.029	.102	.003	−.107	−.049	−.124	−.042	−.146	−.076
28.50	8.7	−.045	.018	−.049	.058	−.088	.058	−.049	.070	−.054	.102	−.070	.108
	42.3	−.049	.008	−.079	.005	−.074	.080	−.081	.050	−.116	.037	−.149	.028
	70.7	−.065	−.034	−.094	−.049	−.084	−.032	−.089	−.028	−.116	−.045	−.136	−.082
31.50	8.7	−.049	.002	−.054	−.067	−.037	.044	−.049	.085	−.060	.066	−.082	.111
	42.3	−.049	−.015	−.065	−.005	−.074	.002	−.096	.005	−.128	.080	−.149	.035
	70.7	−.064	−.029	−.082	−.037	−.082	−.049	−.089	−.062	−.116	−.045	−.133	−.097
34.50	8.7	−.023	.008	−.029	.013	−.023	.035	−.032	.058	−.032	.077	−.087	.108
	42.3	−.049	−.015	−.062	−.012	−.068	.002	−.081	.003	−.116	.018	−.138	.035
	70.7	−.062	−.040	−.074	−.028	−.074	−.068	−.089	−.065	−.186	−.082	−.124	−.089
38.00	8.7	−.037	---	−.045	---	−.089	---	−.040	---	−.050	---	−.076	.086
	42.3	−.049	−.023	.048	−.023	−.074	−.002	−.054	.002	−.117	.007	−.149	.018
	70.7	−.032	−.040	.085	−.048	−.076	−.054	−.073	−.065	−.089	−.082	−.116	−.107
41.50	8.7	−.037	−.007	−.029	.002	−.023	.080	−.034	.035	−.049	.054	−.065	.086
	42.3	−.047	−.030	−.027	.029	−.049	−.012	−.078	−.013	−.116	.002	−.141	.005
	70.7	−.058	−.049	−.062	.057	−.074	−.074	.002	−.062	−.099	−.099	−.124	−.116
44.50	8.7	---	−.013	---	.002	---	.018	---	.032	---	−.098	−.068	.079
	42.3	−.049	−.029	−.049	−.080	−.074	−.015	−.096	−.013	−.116	−.002	−.141	.003
	70.7	−.054	−.058	−.065	−.074	−.065	−.065	−.082	−.082	−.096	−.099	−.116	−.121
47.50	8.7	−.032	−.013	−.023	.002	−.025	.018	−.032	.029	−.049	.032	−.065	.049
	42.3	.008	−.030	−.015	−.020	−.025	−.025	−.047	−.015	−.064	−.035	−.082	.008
	70.7	−.079	−.049	−.060	−.069	−.065	−.074	−.076	−.082	−.091	−.102	−.111	−.121
50.50	8.7	−.040	---	−.089	---	−.049	---	−.049	---	−.068	---	−.079	---
	42.3	−.047	−.042	−.062	−.045	−.074	−.032	−.087	−.052	−.136	−.080	−.133	.025
	70.7	−.049	−.064	−.065	−.061	−.070	−.068	.008	−.099	−.094	−.116	−.133	.133
53.50	8.7	---	−.025	---	−.015	---	.002	---	.003	---	.094	---	.049
	42.3	−.049	−.045	−.062	−.030	−.074	−.023	−.091	−.032	−.114	−.032	−.131	−.015
	70.7	−.049	−.062	−.057	−.079	−.062	−.062	−.070	−.099	−.062	−.116	−.104	−.136
56.50	8.7	−.023	−.018	−.023	−.022	−.023	−.008	−.049	.007	−.064	.030	−.082	−.118
	42.3	−.032	−.035	−.045	−.040	−.062	−.042	−.094	−.038	−.104	−.085	−.138	−.018
	70.7	−.075	−.053	−.045	−.078	−.020	−.052	−.080	−.038	−.070	−.118	−.087	−.136
59.50	8.7	−.018	−.031	−.028	.027	−.040	.023	−.043	.023	−.053	.030	−.066	.033
	42.3	−.031	−.035	−.056	−.040	−.068	−.042	−.077	−.038	−.086	−.033	−.101	−.027
	70.7	−.035	−.056	−.047	−.095	−.035	−.092	−.068	−.105	−.080	−.119	−.098	−.136

TABLE I.— CONTINUED

(c) M,0.70.

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: −4, Upper surface	−4, Lower surface	−2, Upper surface	−2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
10	8.7	0.075	0.005	0.046	0.012	0.031	0.080	0.024	0.046	0	0.077	−0.005	0.092
	42.3	.064	.005	.047	.015	.028	.029	.021	.047	.004	.067	−.005	.078
	70.7	.056	.005	[illegible]	.009	.024	.018	.019	.035	.007	.055	−.008	.059
15	8.7	.037	−.019	.015	−.015	.001	−.009	−.005	.008	−.023	.053	−.031	.055
	42.3	.035	−.027	.012	−.023	.007	−.012	.005	−.001	−.020	.025	−.031	.035
	70.7	.022	−.026	.004	−.015	−.005	−.012	−.007	−.003	−.020	.013	−.038	.035
20	8.7	.008	−.033	−.012	−.038	−.025	−.035	−.030	−.016	−.031	.011	−.046	.022
	42.3	−.003	−.033	−.014	−.039	−.026	−.036	−.030	−.019	−.032	.007	−.046	.009
	70.7	−.009	−.031	−.023	−.039	−.034	−.036	−.038	−.021	−.040	−.013	−.049	−.016
25	8.7	−.005	−.030	−.023	−.041	−.035	−.039	−.035	−.031	−.057	−.009	−.053	.005
	42.3	−.019	−.030	−.032	−.039	−.039	−.039	−.039	−.031	−.057	−.013	−.053	−.005
	70.7	−.031	−.046	−.038	−.039	−.039	−.039	−.039	−.032	−.061	−.027	−.058	−.030
28.50	8.7	−.009	−.037	−.027	−.041	−.038	−.039	−.035	−.030	−.043	−.013	−.044	.001
	42.3	−.019	−.042	−.031	−.041	−.036	−.038	−.036	−.031	−.046	−.013	−.047	−.012
	70.7	−.033	−.045	−.039	−.042	−.043	−.047	−.038	−.032	−.044	−.030	−.057	−.031
31.50	8.7	−.019	−.046	−.039	−.045	−.049	−.049	−.046	−.032	−.046	−.016	−.050	−.012
	42.3	−.033	−.046	−.039	−.046	−.049	−.049	−.044	−.039	−.043	−.026	−.053	−.026
	70.7	−.039	−.046	−.045	−.046	−.050	−.049	−.046	−.035	−.046	−.030	−.057	−.032
34.50	8.7	−.028	−.033	−.026	−.039	−.039	−.039	−.030	−.032	−.030	−.016	−.038	−.005
	42.3	−.030	−.033	−.036	−.039	−.039	−.038	−.035	−.032	−.040	−.027	−.039	−.018
	70.7	−.033	−.037	−.038	−.039	−.039	−.039	−.035	−.034	−.042	−.030	−.050	−.034
38.00	8.7	−.023	---	−.036	---	−.043	---	−.043	---	−.040	---	−.039	---
	42.3	−.033	−.042	−.042	−.046	−.050	−.050	−.044	−.035	−.044	−.030	−.046	−.031
	70.7	−.033	−.038	−.036	−.039	−.039	−.039	−.038	−.032	−.040	−.030	−.044	−.039
41.50	8.7	−.022	−.034	−.036	−.041	−.039	−.047	−.039	−.032	−.038	−.027	−.036	−.019
	42.3	−.031	−.037	−.039	−.042	−.043	−.049	−.038	−.039	−.038	−.031	−.039	−.032
	70.7	−.035	−.042	−.039	−.042	−.047	−.047	−.039	−.039	−.042	−.034	−.044	−.039
44.50	8.7	---	−.033	---	−.041	---	−.043	---	−.034	---	−.027	---	−.019
	42.3	−.034	−.033	−.045	−.039	−.050	−.040	−.044	−.034	−.040	−.030	−.039	−.031
	70.7	−.039	−.045	−.048	−.046	−.050	−.050	−.044	−.044	−.049	−.043	−.041	−.033
47.50	8.7	−.026	−.033	−.036	−.039	−.039	−.039	−.038	−.034	−.039	−.027	−.038	−.018
	42.3	.004	−.033	−.001	−.038	−.007	−.038	.002	−.034	.004	−.030	.001	−.031
	70.7	−.034	−.033	−.039	−.039	−.039	−.039	−.035	−.034	−.032	−.038	−.043	−.040
50.50	8.7	−.039	---	−.046	---	−.051	---	−.046	---	−.036	---	−.038	---
	42.3	−.046	−.039	−.050	−.046	−.053	−.051	−.046	−.046	−.040	−.042	−.044	−.044
	70.7	−.047	−.046	−.053	−.050	−.053	−.051	−.047	−.047	−.043	−.050	−.047	−.057
53.50	8.7	---	−.033	---	−.042	---	−.049	---	−.038	---	−.030	---	−.038
	42.3	−.033	−.033	−.046	−.042	−.050	−.047	−.039	−.039	−.031	−.036	−.034	−.035
	70.7	−.046	−.039	−.046	−.043	−.049	−.047	−.040	−.044	−.036	−.038	−.043	−.055
56.50	8.7	−.046	−.037	−.050	−.046	−.051	−.055	−.046	−.046	−.032	−.043	−.038	−.043
	42.3	−.047	−.037	−.051	−.046	−.053	−.055	−.046	−.046	−.034	−.046	−.034	−.054
	70.7	−.049	−.046	−.046	−.053	−.054	−.055	−.043	−.046	−.040	−.055	−.042	−.066
59.50	8.7	−.049	.005	−.069	−.001	−.055	0	−.046	.009	−.040	.011	−.039	.009
	42.3	−.049	−.037	−.054	−.043	−.055	−.053	−.044	−.044	−.039	−.043	−.042	−.054
	70.7	−.062	−.026	−.061	−.049	−.061	−.055	−.046	−.046	−.043	−.056	−.045	−.069

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: 8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface	12, Upper surface	12, Lower surface	14, Upper surface	14, Lower surface	16, Upper surface	16, Lower surface	18, Upper surface	18, Lower surface
10	8.7	−0.013	0.122	−0.036	0.015	−0.034	0.176	−0.054	−0.206	−0.050	0.247	−0.037	0.285
	42.3	−.013	.106	−.047	−.016	−.051	.136	−.074	−.158	−.088	.179	−.120	.201
	70.7	−.027	.063	−.064	.058	−.075	.063	−.115	−.054	−.120	.058	−.019	.045
15	8.7	−.035	.061	−.053	.099	−.052	.129	−.090	.135	−.061	.193	−.066	.231
	42.3	−.042	.054	−.064	.065	−.070	.086	−.098	.094	−.104	.123	−.147	.139
	70.7	−.048	.036	−.064	.018	−.089	.019	−.108	.007	−.130	.007	−.149	−.001
20	8.7	−.044	.048	−.061	.065	−.056	.089	−.061	.115	−.062	.146	−.066	.191
	42.3	−.054	.026	−.074	.031	−.072	.051	−.101	.061	−.115	.085	−.147	.099
	70.7	−.066	.005	−.077	−.020	−.099	−.016	−.121	−.031	−.128	−.030	−.147	−.040
25	8.7	−.044	.086	−.057	−.038	−.048	.062	−.062	.077	−.057	.112	−.069	.139
	42.3	−.058	.009	−.074	.007	−.072	.084	−.101	.034	−.117	.058	−.147	.069
	70.7	−.052	−.026	−.078	−.035	−.097	−.034	−.115	−.050	−.117	−.050	−.145	−.066
28.50	8.7	−.042	.022	−.050	.032	−.046	.035	−.050	.071	−.050	.098	−.066	.130
	42.3	−.044	.001	−.070	.004	−.071	.021	−.101	.083	−.111	.044	−.145	.058
	70.7	−.066	−.028	−.088	−.043	−.102	−.043	−.108	−.058	−.111	−.074	−.136	−.077
31.50	8.7	−.046	.012	−.053	.018	−.046	.021	−.055	.058	−.057	.080	−.076	.112
	42.3	−.058	−.013	−.066	−.009	−.072	.005	−.101	.007	−.115	.088	−.147	.042
	70.7	−.059	−.030	−.084	−.050	−.083	−.048	−.101	−.071	−.104	−.070	−.134	−.086
34.50	8.7	−.026	.012	−.036	.018	−.031	.032	−.034	.050	−.036	.078	−.047	.107
	42.3	−.042	−.008	−.061	−.009	−.062	.005	−.097	.007	−.106	.004	−.141	.036
	70.7	−.052	−.030	−.074	−.051	−.072	−.039	−.097	−.071	−.101	−.074	−.184	−.093
38.00	8.7	−.030	---	−.038	---	−.038	---	−.047	---	−.047	---	−.065	---
	42.3	−.028	−.015	−.063	−.020	−.070	−.005	−.104	−.005	−.120	.015	−.161	.028
	70.7	−.022	−.031	−.063	−.050	−.066	−.056	−.088	−.074	−.090	−.077	−.114	.096
41.50	8.7	−.026	−.003	−.036	.004	−.031	.021	−.046	.034	−.047	−.074	−.066	.063
	42.3	−.043	−.026	−.057	−.023	−.066	.012	−.100	−.013	−.111	.004	−.141	.015
	70.7	−.052	−.044	−.066	−.064	−.070	−.060	−.089	−.065	−.106	−.084	−.255	−.105
44.50	8.7	---	−.008	---	.003	---	.015	---	.027	---	.058	---	.080
	42.3	−.042	−.026	−.064	−.022	−.071	−.012	−.104	−.013	−.115	.004	−.145	.012
	70.7	−.048	−.048	−.066	−.066	−.065	−.070	−.086	−.069	−.090	−.093	−.114	−.114
47.50	8.7	−.027	−.001	−.030	.003	−.026	.015	−.040	.027	−.043	.055	−.066	.076
	42.3	.001	−.026	−.016	−.026	−.021	−.016	−.050	−.030	−.053	−.003	−.080	.004
	70.7	−.043	−.048	−.061	−.065	−.062	−.070	−.061	−.101	−.088	−.095	−.107	−.118
50.50	8.7	−.028	---	−.036	---	−.039	---	−.054	---	−.061	---	−.080	.096
	42.3	−.043	−.030	−.064	.038	−.069	−.039	−.106	−.034	−.115	−.016	−.134	−.018
	70.7	−.043	−.055	−.064	−.077	−.066	−.056	−.086	−.102	−.090	−.106	−.109	−.187
53.50	8.7	---	−.015	---	−.016	---	−.003	---	−.007	---	.031	−.069	.055
	42.3	−.035	−.035	−.061	−.036	−.070	−.032	−.098	−.034	−.101	−.080	−.125	−.012
	70.7	−.039	−.057	−.061	−.077	−.059	−.079	−.077	−.108	−.080	−.111	−.100	−.130
56.50	8.7	−.028	−.031	−.036	−.026	−.035	−.018	−.058	−.015	−.063	.082	−.077	.039
	42.3	−.039	−.044	−.064	−.030	−.044	−.049	−.086	−.047	−.101	−.035	−.180	−.027
	70.7	−.043	−.059	−.054	−.088	−.058	−.096	−.072	−.022	−.070	−.120	−.096	−.136
59.50	8.7	−.023	.011	−.036	.003	−.042	.001	−.064	.008	−.057	.011	−.069	.086
	42.3	−.032	−.043	−.065	−.051	−.070	−.049	−.096	−.054	−.096	−.039	−.111	−.086
	70.7	−.037	−.060	−.061	−.092	−.065	−.100	−.086	−.123	−.082	−.123	−.097	−.147

NACA

TABLE I.– CONTINUED

(d) M,0.75.

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees											
		-4		-2		0		2		4		6	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7	0.056	-0.014	0.054	0.007	0.038	0.037	0.009	0.060	0.002	0.030	-0.009	0.100
	42.3	.052	-.014	.050	.007	.036	.037	.009	.048	.002	.078	-.002	.087
	70.7	.041	-.011	.043	.007	.033	.029	.028	.030	.009	.046	-.005	.058
15	8.7	.022	-.036	.028	-.020	.005	.005	-.021	-.004	-.026	.035	-.023	.040
	42.3	.014	-.043	.017	-.027	.004	-.002	-.020	0	-.026	.041	-.030	.058
	70.7	.002	-.048	.009	-.024	.002	0	-.019	-.006	-.028	.009	-.033	.017
20	8.7	-.009	-.045	-.005	-.040	-.020	-.022	-.035	-.022	-.041	-.021	-.044	.006
	42.3	-.019	-.048	-.115	-.041	-.022	-.025	-.037	-.025	-.040	-.028	-.047	.014
	70.7	-.033	-.060	-.029	-.048	-.023	-.025	-.041	-.032	-.042	-.050	-.049	-.012
25	8.7	-.007	-.042	-.118	-.048	-.028	-.035	-.047	-.035	-.052	-.016	-.047	.004
	42.3	-.035	-.040	-.028	-.046	-.038	-.038	-.050	-.035	-.052	-.022	-.048	-.009
	70.7	-.047	-.048	-.036	-.050	-.034	-.034	-.050	-.041	-.053	-.028	-.059	-.025
28.50	8.7	-.032	-.058	-.025	-.040	-.032	-.035	-.047	-.035	-.050	-.010	-.047	.024
	42.3	-.055	-.058	-.030	-.043	-.032	-.033	-.050	-.135	-.051	-.024	-.047	-.110
	70.7	-.052	-.045	-.040	-.022	-.036	-.034	-.056	-.045	-.053	-.038	-.052	-.030
31.50	8.7	-.043	-.058	-.036	-.045	-.039	-.037	-.077	-.046	-.053	-.028	-.048	-.029
	42.3	-.046	-.042	-.046	-.048	-.039	-.041	-.036	-.047	-.052	-.037	-.048	-.041
	70.7	-.058	-.045	-.045	-.058	-.045	-.037	-.040	-.047	-.054	-.041	-.058	-.036
34.50	8.7	-.052	-.056	-.030	-.054	-.030	-.033	-.037	-.041	-.035	-.027	-.033	-.029
	42.3	-.043	-.058	-.038	-.054	-.033	-.035	-.046	-.041	-.043	-.026	-.042	-.027
	70.7	-.048	-.040	-.036	-.045	-.035	-.033	-.047	-.045	-.052	-.032	-.048	-.030
38.00	8.7	-.043	---	-.036	---	-.043	---	-.050	---	-.052	---	-.036	---
	42.3	-.055	-.055	-.045	-.048	-.038	-.037	-.057	-.047	-.052	-.058	-.046	-.043
	70.7	-.052	-.058	-.056	-.042	-.033	-.034	-.047	-.045	-.044	-.038	-.047	-.133
41.50	8.7	-.045	-.058	-.036	-.045	-.034	-.034	-.048	-.039	-.043	-.028	-.034	-.017
	42.3	-.047	-.058	-.046	-.048	-.036	-.037	-.050	-.047	-.046	-.038	-.036	-.027
	70.7	-.054	-.058	-.045	-.048	-.037	-.036	-.053	-.047	-.052	-.044	-.048	-.046
44.50	8.7	---	-.056	---	-.042	---	-.036	---	-.047	---	-.052	---	-.021
	42.3	-.056	-.056	-.045	-.042	-.041	-.034	-.055	-.047	-.052	-.038	-.042	-.023
	70.7	-.055	-.049	-.048	-.048	-.041	-.041	-.053	-.035	-.051	-.052	-.048	-.046
47.50	8.7	-.046	-.039	-.038	-.040	-.033	-.034	-.046	-.045	-.040	-.031	-.027	-.027
	42.3	-.041	-.055	-.002	-.040	.004	-.034	-.009	-.047	-.002	-.038	.000	-.021
	70.7	-.058	-.057	-.042	-.042	-.034	-.034	-.047	-.042	-.043	-.043	-.042	-.024
50.50	8.7	-.058	---	-.052	---	-.047	---	-.048	---	-.052	---	-.039	---
	42.3	-.062	-.058	-.058	-.048	-.049	-.045	-.058	-.040	-.047	-.052	-.042	-.046
	70.7	-.072	-.045	-.054	-.043	-.047	-.047	-.060	-.040	-.055	-.055	-.048	-.050
53.50	8.7	---	-.056	---	-.040	---	-.041	---	-.052	---	-.048	---	-.030
	42.3	-.057	-.057	-.045	-.045	-.039	-.041	-.048	-.055	-.042	-.049	-.034	-.036
	70.7	-.062	-.058	-.048	-.048	-.041	-.041	-.055	-.050	-.051	-.058	-.040	-.049
56.50	8.7	-.040	-.050	-.053	-.047	-.047	-.047	-.050	-.052	-.044	-.042	-.034	-.039
	42.3	-.048	-.050	-.054	-.045	-.047	-.047	-.050	-.050	-.047	-.048	-.037	-.047
	70.7	-.062	-.058	-.047	-.045	-.048	-.047	-.045	-.058	-.058	-.050	-.037	-.058
59.50	8.7	-.062	-.119	-.047	-.011	-.047	-.020	-.052	-.017	-.048	-.011	-.033	-.027
	42.3	-.068	-.048	-.047	-.037	-.046	-.042	-.047	-.054	-.049	-.043	-.054	-.044
	70.7	-.069	-.058	-.039	-.049	-.047	-.047	-.054	-.050	-.048	-.050	-.039	-.048

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees											
		8		10		12		14		16		18	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7	-0.021	0.123	-0.031	0.147	-0.034	0.175	-0.039	0.209	-0.039	0.239	-0.074	0.271
	42.3	-.023	.112	-.056	.118	-.047	.138	-.062	.160	-.076	.193	-.130	.317
	70.7	-.033	-.060	-.053	.059	-.053	.088	-.092	.084	-.113	.068	-.143	.070
15	8.7	-.043	.096	-.052	.102	-.058	.129	-.048	.140	-.049	.180	-.062	.217
	42.3	-.048	.051	-.055	.072	-.069	.084	-.060	.102	-.050	.135	-.134	.133
	70.7	-.051	.015	-.065	.017	-.069	.018	-.105	.028	-.121	.018	-.143	.007
20	8.7	-.049	.039	-.054	.064	-.059	.086	-.068	.112	-.049	.138	-.068	.167
	42.3	-.068	.025	-.067	.046	-.078	.049	-.086	.068	-.128	.097	-.140	.094
	70.7	-.073	-.015	-.077	-.016	-.098	-.025	-.111	-.018	-.117	-.008	-.140	-.039
25	8.7	-.052	.025	-.053	.047	-.050	.059	-.049	.080	-.066	.123	-.064	.131
	42.3	-.060	0	-.069	.009	-.076	.025	-.069	.038	-.130	.046	-.146	.067
	70.7	-.073	-.085	-.083	-.035	-.096	-.024	-.125	-.039	-.131	-.031	-.138	-.040
28.50	8.7	-.049	.012	-.052	.042	-.048	.049	-.047	.074	-.032	.111	-.040	.121
	42.3	-.088	-.006	-.068	.005	-.074	.024	-.084	.032	-.105	.055	-.138	.055
	70.7	-.077	-.035	-.082	-.040	-.089	-.028	-.096	-.049	-.105	-.050	-.131	-.049
31.50	8.7	-.049	0	-.071	.019	-.049	.037	-.049	.086	-.049	.096	-.069	.106
	42.3	-.059	-.018	-.068	-.014	-.074	0	-.088	.032	-.111	.037	-.139	.033
	70.7	-.077	-.041	-.082	-.054	-.086	-.028	-.092	-.038	-.101	-.042	-.128	-.060
34.50	8.7	-.037	0	-.041	.015	-.034	.034	-.032	.058	-.034	.087	-.064	.108
	42.3	-.048	-.032	-.056	-.020	-.064	0	-.059	.012	-.105	.037	-.133	.031
	70.7	-.062	-.041	-.068	-.054	-.074	-.058	-.064	-.059	-.090	-.045	-.118	-.076
38.00	8.7	-.038	---	-.046	---	-.037	---	-.037	---	-.043	---	-.064	---
	42.3	-.058	-.032	-.063	-.016	-.054	-.021	-.090	.002	-.128	.005	-.145	.000
	70.7	-.068	-.043	-.069	-.058	-.068	-.058	-.074	-.064	-.080	-.071	-.110	-.092
41.50	8.7	-.037	-.011	-.035	-.002	-.034	.018	-.034	.038	-.039	.072	-.064	.080
	42.3	-.047	-.023	-.057	-.026	-.068	-.014	-.064	.002	-.118	.014	-.138	.007
	70.7	-.059	-.048	-.065	-.054	-.071	-.064	-.076	-.071	-.073	-.096	-.116	-.101
44.50	8.7	---	-.012	---	-.004	---	-.012	---	.032	---	.068	---	.049
	42.3	-.048	-.025	-.056	-.026	-.074	-.025	-.058	-.064	-.111	.012	.139	.030
	70.7	-.058	-.052	-.063	-.066	-.071	-.071	-.074	-.074	-.086	-.084	.113	-.106
47.50	8.7	-.052	-.018	-.028	-.024	-.025	.022	-.018	.037	-.038	.067	-.060	.069
	42.3	-.066	-.052	-.015	-.028	-.025	-.022	-.027	-.011	-.049	.009	-.073	.005
	70.7	-.049	-.055	-.054	-.066	-.064	-.071	-.071	-.076	-.080	-.007	-.105	-.106
50.50	8.7	-.037	---	-.038	---	-.037	---	-.043	---	-.076	---	-.076	---
	42.3	-.049	-.048	-.045	-.041	-.078	-.057	-.058	-.025	-.107	-.066	-.131	-.025
	70.7	-.062	-.111	-.063	-.064	-.068	-.066	-.074	-.069	-.086	-.100	-.130	-.128
53.50	8.7	---	-.025	---	-.016	---	-.008	---	.028	---	.043	---	.044
	42.3	.064	-.043	-.055	-.042	-.071	-.037	-.086	-.025	-.096	-.021	-.118	-.017
	70.7	-.049	-.065	-.053	-.075	-.062	-.064	-.068	-.066	-.094	-.099	-.087	-.128
56.50	8.7	-.033	-.042	-.035	.036	-.057	-.024	-.048	.001	-.058	-.086	-.076	.034
	42.3	-.047	-.048	-.064	-.038	-.075	-.047	-.066	-.034	-.082	-.088	-.118	-.027
	70.7	-.047	-.082	.068	-.066	-.098	-.067	-.099	-.096	-.071	-.109	-.087	-.126
59.50	8.7	-.033	-.007	-.049	-.112	-.037	-.004	-.049	.002	-.049	.002	-.071	.038
	42.3	-.044	-.048	-.067	-.058	-.074	-.048	-.076	-.054	-.068	-.025	-.105	-.044
	70.7	-.048	-.072	-.062	-.092	-.060	-.097	-.070	-.108	-.073	-.118	-.099	-.137

NACA

TABLE I.- CONTINUED

(e) M,0.80.

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
10	8.7	0.063	0.006	0.047	0.007	0.027	0.007	0.014	0.017	0.002	0.059
	42.3	.059	.006	.041	.007	.027	.005	.014	.007	.002	.050
	70.7	.050	.006	.036	.005	.027	.018	.014	.005	.002	.034
15	8.7	.029	-.001	.015	-.002	-.001	.007	-.019	.002	-.030	.023
	42.3	.025	-.007	.010	-.007	.007	-.016	-.019	-.006	-.030	.122
	70.7	.007	-.005	.002	-.032	.007	-.016	-.019	-.009	-.030	-.003
20	8.7	-.003	-.081	-.013	-.045	-.027	-.015	-.041	-.083	-.049	-.009
	42.3	-.007	-.081	-.022	-.045	-.029	-.038	-.041	-.013	-.053	-.081
	70.7	-.024	-.050	-.033	-.050	-.033	-.041	-.043	-.042	-.054	-.032
25	8.7	-.018	-.050	-.031	-.056	-.040	-.043	-.049	-.041	-.055	-.030
	42.3	-.030	-.050	-.042	-.056	-.041	-.043	-.035	-.041	-.061	-.032
	70.7	-.039	-.053	-.045	-.056	-.047	-.053	-.000	-.046	-.064	-.043
28.50	8.7	-.021	-.047	-.031	-.054	-.041	-.047	-.053	-.041	-.035	-.010
	42.3	-.036	-.050	-.048	-.056	-.041	-.047	-.055	-.041	-.037	-.014
	70.7	-.041	-.054	-.050	-.056	-.050	-.053	-.055	-.053	-.059	-.047
31.50	8.7	-.040	-.051	-.047	-.056	-.053	-.051	-.057	-.048	-.061	-.041
	42.3	-.040	-.051	-.047	-.058	-.053	-.051	-.057	-.055	-.063	-.041
	70.7	-.055	-.053	-.056	-.058	-.055	-.053	-.064	-.055	-.064	-.054
34.50	8.7	-.027	-.043	-.033	-.054	-.039	-.049	-.043	-.041	-.047	-.038
	42.3	-.032	-.043	-.044	-.054	-.043	-.049	-.053	-.041	-.054	-.042
	70.7	-.043	-.053	-.047	-.058	-.047	-.055	-.051	-.055	-.050	-.055
38.00	8.7	-.039	---	-.045	---	-.051	---	-.055	---	-.056	---
	42.3	-.047	-.050	-.056	-.056	-.056	-.053	-.061	-.050	-.058	-.044
	70.7	-.043	-.050	-.050	-.056	-.050	-.055	-.053	-.053	-.055	-.054
41.50	8.7	-.039	-.043	-.045	-.055	-.047	-.051	-.053	-.057	-.055	-.041
	42.3	-.041	-.047	-.045	-.054	-.050	-.055	-.054	-.054	-.055	-.049
	70.7	-.050	-.051	-.056	-.054	-.052	-.053	-.058	-.054	-.055	-.055
44.50	8.7	---	-.043	---	-.054	---	-.051	---	-.053	---	-.043
	42.3	-.049	-.043	-.056	-.054	-.053	-.051	-.055	-.055	-.057	-.043
	70.7	-.053	-.058	-.056	-.056	-.053	-.054	-.057	-.057	-.059	-.055
47.50	8.7	-.035	-.041	-.043	-.047	-.047	-.049	-.049	-.046	-.047	-.042
	42.3	-.035	-.041	-.010	-.047	-.013	-.049	-.013	-.046	-.011	-.043
	70.7	-.043	-.047	-.050	-.054	-.050	-.058	-.055	-.053	-.054	-.051
50.50	8.7	-.039	---	-.055	---	-.058	---	-.061	---	-.056	---
	42.3	-.039	-.055	-.058	-.055	-.058	-.058	-.061	-.061	-.056	-.057
	70.7	-.058	-.055	-.065	-.054	-.065	-.058	-.065	-.054	-.066	-.049
53.50	8.7	---	-.041	---	-.054	---	-.053	---	-.055	---	-.054
	42.3	-.047	-.050	-.056	-.056	-.059	-.054	-.055	-.056	-.055	-.056
	70.7	-.058	-.051	-.057	-.057	-.059	-.055	-.055	-.058	-.056	-.054
56.50	8.7	-.058	-.044	-.065	-.054	-.064	-.055	-.064	-.055	-.064	-.057
	42.3	-.065	-.044	-.068	-.049	-.064	-.053	-.055	-.055	-.069	-.051
	70.7	-.067	-.044	-.051	-.054	-.049	-.055	-.065	-.055	-.049	-.056
59.50	8.7	-.049	-.038	-.054	-.043	-.055	-.043	-.049	-.046	-.049	-.051
	42.3	-.055	-.041	-.054	-.043	-.055	-.055	-.049	-.055	-.049	-.054
	70.7	-.066	-.044	-.054	-.045	-.061	-.054	-.057	-.055	-.057	-.056

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: 8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface	14 Upper surface	14 Lower surface	16 Upper surface	16 Lower surface	18 Upper surface	18 Lower surface
10	8.7	-0.021	0.107	-0.041	0.137	-0.043	0.178	-0.047	0.211	-0.065	0.238	-0.055	0.290
	42.3	-.024	.087	-.043	.105	-.056	.140	-.070	.156	-.082	.166	-.112	.246
	70.7	-.030	.046	-.057	.046	-.067	.056	-.100	.059	-.116	.051	-.145	.058
15	8.7	-.047	.064	-.061	.088	-.062	.110	-.060	.136	-.074	.184	-.067	.287
	42.3	-.053	.019	-.069	.050	-.076	.082	-.080	.099	-.128	.118	-.135	.148
	70.7	-.055	.006	-.084	.005	-.108	.010	-.115	.100	-.145	.005	-.147	.010
20	8.7	-.038	.085	-.072	.042	-.066	.080	-.063	.108	-.077	.131	-.064	.172
	42.3	-.024	.007	-.079	.019	-.087	.040	-.095	.099	-.111	.072	-.144	.068
	70.7	-.075	-.024	-.101	-.030	-.119	-.030	-.117	-.026	-.143	-.042	-.147	-.015
25	8.7	-.062	.005	-.069	.019	-.062	.036	-.058	.071	-.071	.093	-.067	.117
	42.3	-.073	-.016	-.084	-.009	-.093	.016	-.100	.031	-.124	.036	-.147	.067
	70.7	-.082	-.041	-.101	-.043	-.120	-.047	-.118	-.047	-.136	-.065	-.144	-.069
28.50	8.7	-.138	.002	-.066	.014	-.054	.049	-.051	.057	-.064	.089	-.060	.128
	42.3	-.066	-.018	-.078	-.015	-.087	-.006	-.095	.022	-.134	.029	-.133	.075
	70.7	-.078	-.043	-.101	-.035	-.104	-.051	-.106	-.054	-.134	-.075	-.137	-.069
31.50	8.7	-.065	-.017	-.069	-.001	-.062	.087	-.057	.046	-.073	.078	-.076	.105
	42.3	-.066	-.030	-.078	-.023	-.087	-.007	-.100	.005	-.134	.015	-.147	.073
	70.7	-.078	-.050	-.101	-.037	-.078	-.062	-.106	-.066	-.128	-.088	-.135	-.086
34.50	8.7	-.047	-.015	-.073	.002	-.041	.087	-.038	.048	-.054	.126	-.046	.101
	42.3	-.058	-.030	-.072	-.065	-.081	-.007	-.095	.008	-.130	.064	-.133	.064
	70.7	-.072	-.051	-.067	-.064	-.087	-.064	-.094	-.070	-.130	-.088	-.124	-.089
38.00	8.7	-.032	---	-.025	---	-.050	---	-.047	---	-.068	---	-.069	---
	42.3	-.063	-.035	-.076	-.022	-.087	-.017	-.106	-.009	-.145	.001	-.156	.064
	70.7	-.068	-.055	-.080	-.064	-.081	-.078	-.089	-.072	-.111	-.097	-.118	-.094
41.50	8.7	-.029	-.021	-.023	-.011	-.041	-.016	-.040	-.031	-.060	.047	-.067	.081
	42.3	-.056	-.041	-.068	-.041	-.085	-.021	-.097	-.013	-.134	-.008	-.134	.012
	70.7	-.067	-.055	-.078	-.072	-.085	-.076	-.089	-.081	-.113	-.099	-.120	-.102
44.50	8.7	---	-.030	---	-.021	---	.007	---	.024	---	.032	---	.069
	42.3	-.058	-.041	-.076	-.042	-.089	-.021	-.106	-.014	-.139	-.008	-.147	.012
	70.7	-.064	-.064	-.078	-.078	-.085	-.081	-.089	-.066	-.111	-.111	-.135	-.110
47.50	8.7	-.041	-.024	-.043	-.015	-.039	.007	-.038	.025	-.065	.038	-.097	.069
	42.3	-.036	-.041	-.030	-.040	-.040	-.024	-.049	-.015	-.097	-.017	-.098	.005
	70.7	-.058	-.062	-.076	-.076	-.074	-.081	-.081	-.066	-.109	-.111	-.109	-.118
50.50	8.7	-.033	---	-.055	---	-.053	---	-.051	---	-.079	---	-.076	---
	42.3	-.063	-.055	-.074	-.055	-.093	-.042	-.106	-.037	-.134	-.031	-.135	-.018
	70.7	-.066	-.075	-.078	-.069	-.081	-.096	-.066	-.100	-.111	-.125	-.118	-.124
53.50	8.7	---	-.041	---	-.032	---	.009	---	.008	---	.015	---	.047
	42.3	-.010	-.033	-.072	-.055	-.088	-.047	-.097	-.018	-.132	-.034	-.124	-.016
	70.7	-.058	-.075	-.072	-.069	-.076	-.095	-.078	-.125	-.099	-.132	-.102	-.084
56.50	8.7	-.033	-.035	-.033	-.031	-.051	-.030	-.060	-.009	-.066	-.008	-.111	-.095
	42.3	-.061	-.062	-.076	-.055	-.096	-.055	-.103	-.046	-.125	-.033	-.126	-.032
	70.7	-.059	-.084	-.073	-.101	-.076	-.115	-.068	-.106	-.101	-.093	-.098	-.086
59.50	8.7	-.044	-.048	-.050	-.044	-.055	-.030	-.055	-.009	-.067	-.007	-.088	.025
	42.3	-.055	-.061	-.076	-.050	-.091	-.055	-.091	-.044	-.132	-.054	-.115	-.038
	70.7	-.065	-.084	-.076	-.104	-.078	-.117	-.074	-.114	-.111	-.116	-.107	-.114

NACA

TABLE I.– CONTINUED

(f) M,0.82.

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
10	8.7	0.064	-0.002	0.046	0.009	0.034	0.034	0.081	0.045	-0.002	0.042	-0.006	0.093
	42.3	.056	-.002	.038	.004	.038	.034	.081	.043	0	.032	-.016	.061
	70.7	.052	-.002	.034	.003	.038	.029	.081	.032	.001	.039	-.007	.048
15	8.7	.021	-.038	.012	-.026	.021	.022	-.020	.020	-.037	.029	-.038	.020
	42.3	.028	-.035	.005	-.030	.004	.009	-.025	.001	-.037	.006	-.033	.034
	70.7	.007	-.039	.002	-.038	.004	.009	-.013	-.004	-.033	-.005	-.034	.006
20	8.7	-.004	-.049	-.029	-.050	-.025	-.038	-.034	-.021	-.031	-.014	-.050	.014
	42.3	-.013	-.050	-.024	-.050	-.027	-.032	-.037	-.028	-.047	-.018	-.048	.009
	70.7	-.007	-.032	-.036	-.028	-.032	-.034	-.041	-.032	-.037	-.038	-.028	-.019
25	8.7	-.028	-.038	-.036	-.042	-.034	-.042	-.043	-.034	-.041	-.033	-.038	-.006
	42.3	-.034	-.038	-.038	-.041	-.042	-.046	-.038	-.037	-.038	-.039	-.041	-.012
	70.7	-.046	-.038	-.030	-.042	-.043	-.043	-.038	-.043	-.038	-.030	-.040	-.030
28.50	8.7	-.027	-.038	-.041	-.038	-.042	-.041	-.049	-.037	-.041	-.037	-.038	-.008
	42.3	-.037	-.038	-.041	-.039	-.040	-.042	-.052	-.041	-.041	-.039	-.034	-.021
	70.7	-.049	-.040	-.032	-.045	-.044	-.044	-.054	-.049	-.030	-.052	-.049	-.041
31.50	8.7	-.041	-.038	-.038	-.042	-.052	-.045	-.054	-.044	-.047	-.041	-.030	-.021
	42.3	-.046	-.042	-.039	-.045	-.051	-.052	-.054	-.038	-.047	-.050	-.040	-.031
	70.7	-.038	-.045	-.042	-.045	-.054	-.058	-.060	-.049	-.070	-.056	-.040	-.047
34.50	8.7	-.033	-.032	-.040	-.035	-.034	-.042	-.043	-.042	-.038	-.039	-.041	-.029
	42.3	-.035	-.032	-.044	-.038	-.041	-.043	-.037	-.043	-.039	-.050	-.050	-.035
	70.7	-.046	-.038	-.052	-.048	-.043	-.044	-.038	-.045	-.042	-.058	-.054	-.043
38.00	8.7	-.044	---	-.032	---	-.049	---	-.054	---	-.042	---	-.042	---
	42.3	-.054	-.035	-.038	-.048	-.038	-.049	-.056	-.049	-.047	-.052	-.054	-.035
	70.7	-.050	-.038	-.048	-.048	-.049	-.043	-.049	-.045	-.042	-.054	-.054	-.041
41.50	8.7	-.041	-.032	-.047	-.038	-.043	-.044	-.049	-.045	-.050	-.058	-.043	-.030
	42.3	-.046	-.035	-.052	-.040	-.044	-.049	-.051	-.049	-.059	-.052	-.050	-.041
	70.7	-.058	-.038	-.062	-.048	-.052	-.049	-.054	-.049	-.058	-.059	-.058	-.050
44.50	8.7	---	-.032	---	-.038	---	-.045	---	-.049	---	-.050	---	-.038
	42.3	-.058	-.030	-.048	-.035	-.032	-.044	-.045	-.049	-.062	-.058	-.052	-.039
	70.7	-.058	-.038	-.063	-.045	-.052	-.052	-.045	-.058	-.065	-.062	-.054	-.058
47.50	8.7	-.060	-.046	-.047	-.032	-.041	-.043	-.044	-.054	-.054	-.048	-.038	-.030
	42.3	-.011	-.048	-.017	-.038	-.048	-.041	-.048	-.054	-.047	-.050	-.048	-.038
	70.7	-.050	-.050	-.058	-.059	-.043	-.043	-.049	-.049	-.058	-.062	-.058	-.050
50.50	8.7	-.058	---	-.063	---	-.054	---	-.056	---	-.068	---	-.052	---
	42.3	-.058	-.058	-.063	-.043	-.054	-.054	-.060	-.056	-.062	-.065	-.052	-.058
	70.7	-.068	-.063	-.065	-.049	-.060	-.056	-.055	-.068	-.071	-.078	-.061	-.063
53.50	8.7	---	-.046	---	-.058	---	-.049	---	-.058	---	-.056	---	-.041
	42.3	-.050	-.056	-.061	-.061	-.052	-.053	-.074	-.054	-.060	-.061	-.058	-.058
	70.7	-.058	-.058	-.063	-.063	-.052	-.053	-.074	-.054	-.062	-.067	-.057	-.061
56.50	8.7	-.066	-.055	-.062	-.062	-.062	-.058	-.063	-.064	-.067	-.063	-.058	-.052
	42.3	-.067	-.057	-.062	-.058	-.060	-.046	-.062	-.069	-.064	-.068	-.050	-.062
	70.7	-.064	-.061	-.062	-.068	-.041	-.046	-.052	-.064	-.059	-.072	-.051	-.072
59.50	8.7	-.062	-.047	-.064	-.052	-.045	-.040	-.064	-.056	-.056	-.052	-.042	-.047
	42.3	-.064	-.052	-.064	-.050	-.045	-.042	-.059	-.056	-.059	-.062	-.050	-.064
	70.7	-.077	-.060	-.068	-.061	-.052	-.058	-.056	-.078	-.062	-.072	-.054	-.074

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: 8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface	12, Upper surface	12, Lower surface	14, Upper surface	14, Lower surface	16, Upper surface	16, Lower surface	18, Upper surface	18, Lower surface
10	8.7	-0.084	0.169	-0.076	0.142	-0.049	0.171	-0.059	0.211	-0.058	0.241	-0.069	0.274
	42.3	-.084	.088	-.046	.111	-.062	.126	-.079	.158	-.086	.115	-.135	.197
	70.7	-.036	.072	-.059	.073	-.084	.052	-.119	.080	-.124	-.060	-.166	.048
15	8.7	-.049	.064	-.068	.098	-.048	.128	-.065	.156	-.063	.185	-.080	.217
	42.3	-.056	.050	-.069	.098	-.082	.071	-.092	.097	-.111	.114	-.159	.130
	70.7	-.058	.009	-.088	.121	-.105	.030	-.127	.034	-.135	.074	-.167	-.082
20	8.7	-.059	.031	-.068	.053	-.074	.072	-.064	.109	-.069	.136	-.091	.164
	42.3	-.064	.009	-.080	.044	-.094	.038	-.108	.059	-.118	.075	-.166	.086
	70.7	-.079	-.084	-.097	-.086	-.116	-.031	-.118	-.029	-.139	-.038	-.168	-.082
25	8.7	-.067	.003	-.067	-.066	-.072	.038	-.098	.072	-.063	.108	-.088	.125
	42.3	-.070	-.013	-.086	-.109	-.094	.022	-.108	.065	-.121	.067	-.169	.052
	70.7	-.062	-.038	-.090	-.039	-.115	-.050	-.117	-.092	-.139	-.062	-.168	-.068
28.50	8.7	-.058	-.001	-.062	.088	-.064	.038	-.075	.066	-.068	.065	-.088	.110
	42.3	-.078	-.016	-.074	-.008	-.093	-.002	-.108	.082	-.118	.033	-.158	.042
	70.7	-.079	-.047	-.095	-.030	-.127	-.060	-.108	-.084	-.118	-.044	-.169	-.092
31.50	8.7	-.067	-.013	-.065	.089	-.063	.018	-.062	.048	-.069	.070	-.095	.097
	42.3	-.069	-.035	-.078	-.013	-.093	-.122	-.108	.003	-.127	.088	-.169	.081
	70.7	-.061	-.054	-.072	-.058	-.098	-.068	-.109	-.069	-.138	-.074	-.156	-.102
34.50	8.7	-.049	-.013	-.047	.009	-.050	.017	-.041	.048	-.047	.063	-.078	.088
	42.3	-.060	-.038	-.069	-.013	-.063	-.017	-.096	.082	-.117	.034	-.160	.017
	70.7	-.069	-.058	-.060	-.057	-.094	-.048	-.096	-.069	-.109	-.088	-.149	-.107
38.00	8.7	-.086	---	-.098	---	-.092	---	-.098	---	-.064	---	-.091	---
	42.3	-.068	-.056	-.074	-.038	-.094	-.081	-.108	-.068	-.131	.005	-.177	.009
	70.7	-.069	-.056	-.096	-.089	-.084	-.073	-.068	-.074	-.105	-.085	-.144	-.113
41.50	8.7	-.069	-.034	-.047	-.068	-.065	.004	-.064	-.027	-.074	.048	-.091	.066
	42.3	-.068	-.036	-.069	-.096	-.064	-.074	-.104	-.017	-.121	-.007	-.164	-.082
	70.7	-.069	-.060	-.088	-.069	-.084	-.089	-.086	-.089	-.107	-.094	-.144	-.138
44.50	8.7	---	-.004	---	-.023	---	-.004	---	.085	---	.037	---	.058
	42.3	-.059	-.037	-.069	-.036	-.094	-.036	-.108	-.038	-.130	-.068	-.168	-.008
	70.7	-.069	-.067	-.074	-.072	-.087	-.064	-.097	-.086	-.105	-.108	-.135	-.130
47.50	8.7	-.034	-.004	-.037	-.018	-.040	-.001	-.041	.025	-.058	.048	-.090	.058
	42.3	-.013	-.068	-.064	-.036	-.048	-.037	-.078	-.038	-.069	-.068	-.099	-.011
	70.7	-.063	-.064	-.069	-.074	-.080	-.065	-.069	-.067	-.096	-.108	-.127	-.126
50.50	8.7	-.052	---	-.047	---	-.056	---	-.080	---	-.094	---	-.108	---
	42.3	-.063	-.058	-.093	-.086	-.095	-.088	-.113	-.038	-.121	-.038	-.137	-.050
	70.7	-.069	-.078	-.073	-.090	-.008	-.089	-.087	-.106	-.106	-.118	-.135	-.144
53.50	8.7	---	-.089	---	-.032	---	-.018	---	.003	-.103	---	---	.036
	42.3	-.058	-.057	-.088	-.068	-.093	-.054	-.105	-.039	-.114	-.030	-.149	-.033
	70.7	-.065	-.074	-.069	-.068	-.054	-.064	-.083	-.109	-.094	-.117	-.124	-.146
56.50	8.7	-.052	-.081	-.067	-.041	-.059	-.030	-.063	-.028	-.088	-.082	-.180	.014
	42.3	-.080	-.062	-.074	-.062	-.096	-.005	-.105	-.082	-.117	-.080	-.144	-.043
	70.7	-.054	-.069	-.066	-.096	-.073	-.106	-.078	-.119	-.094	-.135	-.106	-.137
59.50	8.7	-.041	-.043	-.041	-.036	-.051	-.085	-.062	-.030	-.080	.003	-.096	.008
	42.3	-.068	-.062	-.073	-.062	-.067	-.058	-.106	-.058	-.113	-.058	-.135	-.044
	70.7	-.062	-.084	-.069	-.097	-.079	-.108	-.089	-.121	-.105	-.140	-.124	-.145

NACA

TABLE I.– CONTINUED

(g) M,0.84.

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
10	8.7	0.068	0.009	0.033	0.012	0.019	0.080	0.005	0.033	-0.005	0.060	-0.060	0.096
	42.3	.059	.009	.046	.012	.019	.080	.008	.032	-.005	.054	-.062	.068
	70.7	.055	.006	.049	.012	---	.019	.009	-.002	-.005	.038	-.066	.053
15	8.7	.033	-.018	-.017	-.020	-.013	-.013	-.030	-.005	-.038	.002	-.039	.053
	42.3	.086	-.027	.014	-.008	-.015	-.022	-.030	-.013	-.038	.006	-.041	-.037
	70.7	.009	-.026	.004	-.006	-.015	-.019	-.030	-.008	-.038	-.005	-.041	-.010
20	8.7	-.008	-.040	-.012	-.042	-.035	-.042	-.053	-.034	-.059	-.074	-.055	.017
	42.3	-.009	-.041	-.018	-.047	-.038	-.042	-.054	-.041	-.059	-.018	-.058	.004
	70.7	-.029	-.048	-.031	-.050	-.043	-.053	-.055	-.047	-.059	-.038	-.066	-.008
25	8.7	-.018	-.051	-.029	-.053	-.051	-.055	-.061	-.058	-.068	-.032	-.060	-.006
	42.3	-.032	-.051	-.040	-.055	-.056	-.055	-.066	-.054	-.070	-.038	-.066	-.017
	70.7	-.040	-.051	-.044	-.053	-.056	-.056	-.066	-.060	-.070	-.049	-.071	-.039
28.50	8.7	-.024	-.048	-.033	-.053	-.054	-.053	-.065	-.052	-.065	-.036	-.058	-.006
	42.3	-.031	-.048	-.039	-.053	-.055	-.055	-.065	-.057	-.067	-.043	-.060	-.005
	70.7	-.040	-.053	-.047	-.055	-.057	-.056	-.071	-.064	-.074	-.056	-.071	-.041
31.50	8.7	-.040	-.051	-.047	-.060	-.065	-.058	-.076	-.068	-.070	-.046	-.060	-.017
	42.3	-.040	-.051	-.050	-.060	-.068	-.065	-.074	-.065	-.070	-.054	-.066	-.033
	70.7	-.054	-.053	-.060	-.062	-.067	-.058	-.076	-.065	-.079	-.059	-.071	-.047
34.50	8.7	-.029	-.045	-.033	-.058	-.048	-.056	-.060	-.054	-.075	-.038	-.046	-.017
	42.3	-.038	-.043	-.042	-.052	-.054	-.056	-.064	-.060	-.068	-.049	-.058	-.030
	70.7	-.045	-.049	-.047	-.053	-.056	-.054	-.065	-.065	-.065	-.059	-.062	-.049
38.00	8.7	-.038	---	-.047	---	-.062	---	-.071	---	-.068	---	-.052	---
	42.3	-.048	-.051	-.055	-.055	-.067	-.058	-.074	-.065	-.070	-.054	-.058	-.039
	70.7	-.048	-.051	-.053	-.045	-.056	-.056	-.065	-.065	-.065	-.057	-.064	-.049
41.50	8.7	-.040	-.045	-.044	-.053	-.056	-.058	-.065	-.063	-.059	-.049	-.049	-.068
	42.3	-.040	-.048	-.047	-.053	-.056	-.062	-.065	-.065	-.062	-.059	-.052	-.039
	70.7	-.051	-.049	-.053	-.053	-.062	-.057	-.067	-.063	-.057	-.059	-.060	-.049
44.50	8.7	---	-.043	---	-.053	---	-.058	---	-.065	---	-.051	---	-.033
	42.3	-.049	-.043	-.053	-.053	-.065	-.058	-.074	-.065	-.067	-.054	-.055	-.038
	70.7	-.051	-.051	-.053	-.058	-.062	-.065	-.071	-.073	-.057	-.058	-.060	-.058
47.50	8.7	-.034	-.040	-.042	-.047	-.056	-.056	-.065	-.060	-.057	-.049	-.044	-.068
	42.3	-.008	-.041	-.018	-.050	-.018	-.056	-.024	-.063	-.018	-.054	-.009	-.039
	70.7	-.048	-.048	-.053	-.052	-.056	-.056	-.065	-.064	-.061	-.059	-.055	-.058
50.50	8.7	-.051	---	-.055	---	-.068	---	-.076	---	-.065	---	-.051	---
	42.3	-.053	-.053	-.058	-.061	-.067	-.067	-.074	-.076	-.065	-.068	-.055	-.065
	70.7	-.061	-.058	-.064	-.062	-.072	-.068	-.076	-.076	-.071	-.070	-.066	-.071
53.50	8.7	---	-.042	---	-.053	---	-.064	---	-.067	---	-.059	---	-.039
	42.3	-.051	-.049	-.053	-.053	-.065	-.064	-.067	-.060	-.059	-.065	-.049	-.058
	70.7	-.052	-.051	-.055	-.055	-.064	-.065	[illegible]	-.073	-.065	-.070	-.058	-.066
56.50	8.7	-.059	-.058	-.064	-.060	-.072	-.071	-.076	-.061	-.068	-.072	-.049	-.059
	42.3	-.059	-.057	-.054	-.060	-.072	-.070	-.076	-.078	-.068	-.072	-.055	-.062
	70.7	-.060	-.060	-.060	-.062	-.062	-.011	-.071	-.082	-.063	-.061	-.056	-.072
59.50	8.7	-.060	-.047	-.063	-.049	-.068	-.060	-.072	-.070	-.061	-.068	-.049	-.049
	42.3	-.062	-.050	-.063	-.054	-.068	-.067	-.072	-.074	-.061	-.072	-.051	-.068
	70.7	-.073	-.059	-.070	-.061	-.071	-.068	-.078	-.083	-.064	-.082	-.059	-.061

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: 8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface	12, Upper surface	12, Lower surface	14, Upper surface	14, Lower surface	16, Upper surface	16, Lower surface	18, Upper surface	18, Lower surface
10	8.7	-0.027	0.106	-0.053	0.139	-0.045	0.171	-0.056	0.211	-0.058	0.243	-0.074	0.277
	42.3	-.031	.090	-.043	.108	-.058	.129	-.080	.154	-.090	.176	-.142	.199
	70.7	-.039	.049	-.026	.053	-.081	.053	-.111	.053	-.126	.059	-.170	.044
15	8.7	-.057	.063	-.056	.095	-.067	.124	-.069	.149	-.069	.187	-.093	.200
	42.3	-.059	.039	-.067	.059	-.080	.075	-.099	.094	-.114	.112	-.157	.134
	70.7	-.067	.006	-.079	.011	-.103	.009	-.130	.010	-.136	.010	-.171	-.008
20	8.7	-.059	.028	-.067	.052	-.069	.075	-.076	.106	-.070	.133	-.095	.167
	42.3	-.067	.006	-.078	.022	-.090	.040	-.110	.052	-.123	.080	-.174	.091
	70.7	-.085	-.037	-.097	-.025	-.112	-.030	-.132	-.035	-.138	.033	-.174	-.060
25	8.7	-.069	-.005	-.067	.025	-.066	.049	-.068	.074	-.066	.101	-.101	.126
	42.3	-.080	-.015	-.079	-.002	-.092	.009	-.113	.021	-.126	.047	-.180	.057
	70.7	-.092	-.048	-.098	-.045	-.111	-.049	-.130	-.057	-.133	-.058	-.171	-.088
28.50	8.7	-.068	-.004	-.058	.019	-.058	.040	-.062	.065	-.058	.090	-.093	.113
	42.3	-.078	-.024	-.077	-.005	-.090	.002	-.110	.010	-.125	.031	-.179	.047
	70.7	-.090	-.056	-.094	-.049	-.109	-.037	-.121	-.067	-.125	-.070	-.169	-.085
31.50	8.7	-.071	-.017	-.066	0	-.066	.021	-.068	.041	-.070	.069	-.098	.092
	42.3	-.078	-.037	-.077	-.023	-.090	.013	-.116	.008	-.130	.018	-.181	.086
	70.7	-.080	-.058	-.090	-.056	-.102	-.068	-.116	-.078	-.129	-.081	-.167	-.120
34.50	8.7	-.057	-.015	-.051	-.108	-.048	.019	-.046	.021	-.049	.058	-.082	.089
	42.3	-.067	-.037	-.067	-.024	-.081	-.019	-.130	-.004	-.124	.006	-.178	.017
	70.7	-.080	-.058	-.079	-.057	-.091	-.068	-.110	-.080	-.114	-.082	-.156	-.114
38.00	8.7	-.080	---	-.055	---	-.056	---	-.057	---	-.062	---	-.102	---
	42.3	-.078	-.045	-.069	-.032	-.091	-.086	-.123	-.013	-.138	.004	-.189	.005
	70.7	-.069	-.059	-.078	-.062	-.087	-.070	-.105	-.087	-.105	-.090	-.147	-.118
41.50	8.7	-.057	-.026	-.046	-.011	-.046	.008	-.056	-.021	-.060	.049	-.094	.069
	42.3	-.062	-.048	-.069	-.040	-.069	-.030	-.113	-.024	-.133	-.006	-.177	-.006
	70.7	-.078	-.067	-.077	-.067	-.089	-.079	-.108	-.080	-.106	-.095	-.148	-.126
44.50	8.7	---	-.035	---	-.013	---	-.003	---	.014	---	.106	---	.028
	42.3	-.078	-.048	-.069	-.043	-.091	-.030	-.123	-.004	-.134	-.066	-.180	-.006
	70.7	-.075	-.071	-.076	-.076	-.089	-.084	-.099	-.089	-.105	-.103	-.147	-.136
47.50	8.7	-.049	-.027	-.044	-.043	-.044	-.002	-.055	.019	-.059	.046	-.093	-.078
	42.3	-.024	-.046	[illegible]	-.038	-.041	-.035	-.067	-.084	-.078	-.009	-.106	-.019
	70.7	-.069	-.069	-.069	-.115	-.079	-.084	-.098	-.102	-.103	-.103	-.136	-.126
50.50	8.7	-.058	---	-.054	---	-.056	---	-.069	---	-.074	---	-.113	---
	42.3	-.068	-.059	-.072	-.056	-.095	-.052	-.124	-.045	-.128	-.033	-.167	-.089
	70.7	-.078	-.085	-.078	-.089	-.089	-.100	-.102	-.112	-.104	-.123	-.145	-.134
53.50	8.7	---	-.045	---	-.089	---	-.019	---	-.002	---	.030	---	.036
	42.3	-.065	-.058	-.068	-.056	-.090	-.052	-.112	-.045	-.119	-.033	-.149	-.031
	70.7	-.069	-.081	-.070	-.086	-.079	-.089	-.091	-.111	-.101	-.119	-.129	-.130
56.50	8.7	-.069	-.060	-.051	-.047	-.057	-.089	-.077	-.027	-.082	-.005	-.114	.007
	42.3	-.067	-.070	-.072	-.060	-.092	-.057	-.113	-.054	-.119	-.049	-.153	-.058
	70.7	-.055	-.090	-.065	-.092	-.069	-.103	-.090	-.103	-.097	-.135	-.129	-.178
59.50	8.7	-.049	-.049	-.043	-.038	-.050	-.085	-.070	-.016	-.061	.001	-.114	.015
	42.3	-.060	-.069	-.070	-.062	-.091	-.057	-.108	-.037	-.114	-.049	-.151	-.038
	70.7	-.068	-.092	-.068	-.101	.079	-.108	-.095	-.126	-.102	-.141	-.140	-.179

NACA

TABLE I.– CONTINUED

(h) M,0.86.

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
10	8.7	0.064	0.006	0.034	0.022	0.042	0.034	0.083	0.047	0.006	0.071	-0.002	0.105
	42.3	.060	.006	.034	.012	.041	.034	.023	.044	.007	.062	-.002	.093
	70.7	.058	.006	.043	.011	.040	.030	.023	.039	.007	.044	-.004	.061
15	8.7	.029	-.024	.020	-.022	.110	0	-.012	-.007	-.024	-.077	-.034	.061
	42.3	.017	-.034	.014	-.031	.008	-.009	-.012	-.001	-.024	-.067	-.034	.040
	70.7	.007	-.039	.006	-.029	.002	-.008	-.012	-.003	-.024	.005	-.036	.019
20	8.7	-.008	-.049	-.017	-.046	-.019	-.029	-.035	-.022	-.046	-.008	-.049	.024
	42.3	-.014	-.051	-.019	-.046	-.021	-.030	-.035	-.024	-.047	-.027	-.055	.008
	70.7	-.026	-.056	-.031	-.051	-.023	-.031	-.037	-.035	-.049	-.036	-.057	-.014
25	8.7	-.024	-.056	-.031	-.054	-.031	-.042	-.045	-.037	-.071	-.027	-.053	.003
	42.3	-.036	-.056	-.039	-.054	-.041	-.044	-.050	-.037	-.062	-.033	-.060	-.011
	70.7	-.046	-.057	-.043	-.060	-.041	-.042	-.054	-.043	-.062	-.046	-.065	-.034
28.50	8.7	-.026	-.055	-.031	-.052	-.039	-.040	-.047	-.040	-.057	-.031	-.049	-.008
	42.3	-.037	-.055	-.040	-.043	-.040	-.041	-.050	-.040	-.058	-.036	-.055	-.013
	70.7	-.046	-.058	-.052	-.064	-.042	-.044	-.054	-.045	-.068	-.046	-.068	-.034
31.50	8.7	-.046	-.057	-.058	-.060	-.047	-.045	-.056	-.048	-.054	-.058	-.055	-.013
	42.3	-.047	-.058	-.051	-.062	-.047	-.050	-.056	-.050	-.054	-.048	-.055	-.028
	70.7	-.061	-.061	-.060	-.062	-.058	-.047	-.061	-.048	-.067	-.048	-.065	-.044
34.50	8.7	-.033	-.054	-.031	-.052	-.031	-.042	-.043	-.041	-.046	-.036	-.042	-.013
	42.3	-.040	-.051	-.041	-.052	-.041	-.042	-.045	-.043	-.048	-.038	-.049	-.025
	70.7	-.048	-.056	-.050	-.053	-.042	-.042	-.048	-.045	-.057	-.046	-.055	-.042
38.00	8.7	-.046	---	-.050	---	-.042	---	-.058	---	-.059	---	-.046	---
	42.3	-.055	-.056	-.054	-.057	-.058	-.047	-.058	-.047	-.064	-.047	-.055	-.034
	70.7	-.056	-.056	-.052	-.057	-.042	-.042	-.047	-.045	-.057	-.048	-.055	-.044
41.50	8.7	-.044	-.055	-.043	-.054	-.041	-.044	-.047	-.045	-.052	-.043	-.042	-.023
	42.3	-.046	-.056	-.050	-.054	-.041	-.044	-.048	-.050	-.054	-.048	-.044	-.034
	70.7	-.056	-.057	-.054	-.054	-.047	-.044	-.052	-.052	-.059	-.054	-.055	-.046
44.50	8.7	---	-.051	---	-.052	---	-.044	---	-.045	---	-.046	---	-.025
	42.3	-.055	-.052	-.054	-.052	-.050	-.042	-.056	-.048	-.058	-.047	-.049	-.034
	70.7	-.058	-.051	-.057	-.062	-.052	-.051	-.055	-.055	-.059	-.058	-.055	-.054
47.50	8.7	-.043	-.048	-.043	-.050	-.040	-.042	-.044	-.045	-.044	-.040	-.036	-.023
	42.3	-.008	-.046	-.020	-.051	-.002	-.042	-.008	-.045	-.008	-.046	-.002	-.034
	70.7	-.055	-.055	-.057	-.052	-.042	-.043	-.047	-.048	-.054	-.051	-.049	-.049
50.50	8.7	-.057	---	-.061	---	-.054	---	-.061	---	-.059	---	-.046	---
	42.3	-.057	-.058	-.061	-.060	-.058	-.052	-.059	-.059	-.059	-.059	-.049	-.049
	70.7	-.069	-.066	-.064	-.068	-.058	-.054	-.061	-.061	-.064	-.067	-.060	-.065
53.50	8.7	---	-.053	---	-.050	---	-.044	---	-.058	---	-.049	---	-.024
	42.3	-.054	-.056	-.054	-.054	-.047	-.046	-.052	-.054	-.054	-.057	-.044	-.044
	70.7	-.061	-.056	-.060	-.059	-.047	-.051	-.052	-.057	-.056	-.062	-.049	-.057
56.50	8.7	-.066	-.058	-.068	-.062	-.060	-.051	-.061	-.055	-.059	-.059	-.044	-.055
	42.3	-.066	-.058	-.068	-.060	-.060	-.050	-.061	-.052	-.059	-.059	-.046	-.060
	70.7	-.066	-.060	-.064	-.065	-.047	-.050	-.047	-.053	-.058	-.064	-.055	-.074
59.50	8.7	-.063	-.049	-.066	-.050	-.052	-.048	-.051	-.047	-.048	-.053	-.044	-.050
	42.3	-.066	-.051	-.066	-.055	-.051	-.044	-.050	-.051	-.052	-.062	-.053	-.060
	70.7	-.080	-.060	-.074	-.064	-.058	-.050	-.055	-.053	-.056	-.064	-.060	-.076

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: 8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface	12, Upper surface	12, Lower surface	14, Upper surface	14, Lower surface	16, Upper surface	16, Lower surface	18, Upper surface	18, Lower surface
10	8.7	-0.016	0.123	-0.026	0.150	-0.024	0.165	-0.049	0.115	-0.067	0.241	-0.055	0.269
	42.3	-.022	.128	-.028	.120	-.033	.134	-.069	.162	-.107	.178	-.110	.214
	70.7	-.026	.060	-.044	.066	-.053	.073	-.106	.062	-.145	.051	-.141	.068
15	8.7	-.045	.079	-.049	.099	-.052	.119	-.068	.162	-.077	.189	-.066	.234
	42.3	-.050	.049	-.058	.067	-.061	.077	-.096	.104	-.138	.109	-.141	.152
	70.7	-.056	.018	-.078	.024	-.075	.085	-.122	.085	-.152	-.002	-.149	.014
20	8.7	-.058	.039	-.060	.055	-.058	.080	-.069	.111	-.066	.134	-.073	.178
	42.3	-.066	.018	-.078	.052	-.079	.042	-.106	.075	-.145	.072	-.149	.104
	70.7	-.077	-.019	-.089	-.018	-.042	-.012	-.114	-.008	-.153	-.044	-.150	-.036
25	8.7	-.061	.009	-.059	.026	-.053	.042	-.067	.077	-.077	.094	-.071	.141
	42.3	-.068	-.008	-.075	.005	-.074	.028	-.109	.039	-.150	.032	-.152	.068
	70.7	-.084	-.055	-.091	-.037	-.093	-.032	-.122	-.051	-.150	-.076	-.146	-.069
28.50	8.7	-.058	.007	-.054	.024	-.051	.035	-.087	.067	-.076	.082	-.067	.131
	42.3	-.066	-.014	-.070	-.002	-.071	.015	-.104	.020	-.154	.014	-.150	.057
	70.7	-.082	.013	-.066	-.039	-.084	-.041	-.112	-.059	-.175	-.085	-.146	-.076
31.50	8.7	-.061	-.012	-.060	.008	-.053	.020	-.057	-.032	-.085	.063	-.078	.110
	42.3	-.066	-.026	-.069	-.018	-.069	-.004	-.084	.004	-.150	.008	-.157	.038
	70.7	-.079	-.047	-.063	-.049	-.084	-.052	-.112	-.071	-.140	-.085	-.139	-.087
34.50	8.7	-.045	-.009	-.038	.012	-.032	.020	-.047	.046	-.064	.061	-.096	.101
	42.3	-.056	-.024	-.060	-.018	-.061	-.004	-.131	-.001	-.143	0	-.144	.033
	70.7	-.068	-.045	-.072	-.049	-.074	-.052	-.101	-.140	-.130	-.089	-.138	-.089
38.00	8.7	-.054	---	-.047	---	-.042	---	-.058	---	-.078	---	-.096	---
	42.3	-.064	-.035	-.068	-.025	-.067	.075	-.121	-.006	-.161	-.113	-.162	.021
	70.7	-.065	-.050	-.069	-.092	-.070	.053	-.096	-.079	-.129	-.107	-.122	-.099
41.50	8.7	-.045	-.016	-.039	-.005	-.032	.008	-.048	.095	-.076	.040	-.073	.075
	42.3	-.055	-.035	-.058	-.028	-.061	-.028	-.111	-.017	-.149	-.122	-.158	.036
	70.7	-.066	-.056	-.070	-.060	-.071	-.061	-.099	-.088	-.189	-.111	-.129	-.101
44.50	8.7	---	-.022	---	-.007	---	-.001	---	.085	---	.031	-.076	.076
	42.3	-.055	-.038	-.061	-.028	-.065	-.083	-.121	-.027	-.151	-.023	-.152	.007
	70.7	-.066	-.064	-.068	-.065	-.065	-.067	-.094	-.094	-.125	-.119	-.128	-.110
47.50	8.7	-.057	-.019	-.030	-.007	-.022	0	-.047	.026	-.076	.030	-.071	.073
	42.3	-.112	-.039	-.016	-.028	-.025	-.022	-.059	-.017	-.069	-.022	-.062	.005
	70.7	-.056	-.062	-.061	-.061	-.062	-.064	-.091	-.094	-.119	-.119	-.113	-.111
50.50	8.7	-.047	---	-.044	---	-.037	---	-.064	---	-.095	---	-.089	---
	42.3	-.058	-.050	-.083	-.047	-.069	-.042	-.112	-.038	-.150	-.044	-.141	-.035
	70.7	-.066	-.077	-.070	-.081	-.069	-.062	-.096	-.111	-.129	-.140	-.120	-.130
53.50	8.7	---	-.035	---	-.026	---	-.011	---	.004	---	.005	---	.047
	42.3	-.054	-.047	-.068	-.044	-.068	-.057	-.109	-.038	-.138	-.044	-.131	-.016
	70.7	-.058	-.071	-.061	-.078	-.064	-.077	-.088	-.109	-.116	-.137	-.149	-.131
56.50	8.7	-.045	-.031	-.041	-.019	-.097	-.116	-.089	-.013	-.097	-.094	-.089	.089
	42.3	-.056	-.058	-.068	-.037	-.072	-.047	-.111	-.055	-.110	-.083	-.131	-.091
	70.7	-.059	-.080	-.048	-.076	-.063	-.099	-.085	-.118	-.102	-.142	-.105	-.147
59.50	8.7	-.043	-.043	-.021	-.013	-.042	-.014	-.066	-.011	-.092	0	-.086	.031
	42.3	-.057	-.059	-.055	-.039	-.084	-.057	-.106	-.055	-.129	-.055	-.126	-.081
	70.7	-.089	-.085	-.050	-.061	-.068	-.099	-.089	-.127	-.116	-.150	-.114	-.149

TABLE I.– CONTINUED

(i) M,0.88.

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
10	8.7	0.066	0.084	0.070	0	0.089	0.037	0.060	0.050	0.005	0.066	0.008	0.180
	42.3	.061	.085	.014	0	.009	.057	.010	.046	.003	.058	.002	.092
	70.7	.056	.080	.030	-.008	.006	.038	.010	.030	.002	.044	-.003	.038
15	8.7	.031	-.005	.013	-.033	-.003	-.066	-.014	.013	-.009	-.085	-.009	.005
	42.3	.026	-.015	.005	-.040	-.009	-.008	-.014	0	-.033	.009	-.039	.038
	70.7	.010	-.015	-.002	-.035	-.007	.040	-.016	-.008	-.027	-.001	-.030	.001
20	8.7	-.020	-.034	-.021	-.054	-.033	-.034	-.035	-.022	-.035	-.039	-.049	.021
	42.3	-.030	-.034	-.028	-.048	-.033	-.034	-.035	-.043	-.034	-.016	-.050	.025
	70.7	-.026	-.025	-.024	-.024	-.035	-.035	-.041	-.033	-.037	-.034	-.037	-.021
25	8.7	-.026	-.041	-.030	-.049	-.033	-.045	-.046	-.035	-.039	-.035	-.027	-.026
	42.3	-.031	-.044	-.039	-.048	-.032	-.048	-.033	-.034	-.038	-.037	-.028	-.016
	70.7	-.038	-.046	-.039	-.038	-.030	-.040	-.035	-.043	-.047	-.047	-.038	-.038
28.50	8.7	-.026	-.041	-.043	-.064	-.045	-.045	-.031	-.035	-.039	-.035	-.038	-.007
	42.3	-.033	-.044	-.031	-.065	-.042	-.045	-.034	-.037	-.038	-.037	-.036	-.015
	70.7	-.044	-.048	-.042	-.078	-.053	-.056	-.034	-.045	-.044	-.050	-.048	-.039
31.50	8.7	-.041	-.046	-.060	-.038	-.085	-.053	-.048	-.046	-.048	-.042	-.039	-.018
	42.3	-.043	-.046	-.048	-.074	-.059	-.055	-.061	-.024	-.057	-.048	-.039	-.028
	70.7	-.054	-.078	-.072	-.073	-.064	-.053	-.069	-.051	-.069	-.054	-.070	-.047
34.50	8.7	-.035	-.037	-.043	-.064	-.036	-.045	-.042	-.042	-.049	-.037	-.031	-.017
	42.3	-.051	-.037	-.054	-.069	-.044	-.048	-.051	-.048	-.057	-.042	-.049	-.029
	70.7	-.048	-.045	-.059	-.066	-.047	-.055	-.052	-.046	-.059	-.038	-.057	-.047
38.00	8.7	-.037	- - -	-.039	- - -	-.034	- - -	-.034	- - -	-.045	- - -	-.034	- - -
	42.3	-.046	-.046	-.049	-.073	-.039	-.054	-.043	-.044	-.045	-.040	-.038	-.031
	70.7	-.044	-.046	-.048	-.066	-.055	-.053	-.058	-.051	-.060	-.050	-.057	-.047
41.50	8.7	-.035	-.044	-.034	-.064	-.033	-.048	-.033	-.046	-.045	-.045	-.037	-.029
	42.3	-.041	-.046	-.040	-.065	-.033	-.054	-.033	-.051	-.038	-.042	-.038	-.038
	70.7	-.046	-.047	-.043	-.049	-.034	-.053	-.036	-.050	-.045	-.038	-.037	-.049
44.50	8.7	- - -	-.041	- - -	-.049	- - -	-.033	- - -	-.031	- - -	-.045	- - -	-.029
	42.3	-.046	-.044	-.046	-.064	-.035	-.053	-.038	-.048	-.050	-.039	-.045	-.038
	70.7	-.048	-.048	-.066	-.072	-.055	-.055	-.054	-.055	-.061	-.048	-.054	-.051
47.50	8.7	-.034	-.038	-.034	-.048	-.047	-.048	-.031	-.046	-.034	-.047	-.039	-.026
	42.3	-.031	-.039	-.040	-.064	-.014	-.048	-.011	-.045	-.031	-.038	-.034	-.018
	70.7	-.041	-.045	-.048	-.064	-.050	-.050	-.054	-.054	-.058	-.056	-.059	-.049
50.50	8.7	-.046	- - -	-.079	- - -	-.049	- - -	-.061	- - -	-.065	- - -	-.049	- - -
	42.3	-.051	-.108	-.078	-.073	-.044	-.048	-.048	-.049	-.044	-.045	-.031	-.021
	70.7	-.056	-.108	-.076	-.078	-.076	-.045	-.044	-.049	-.068	-.070	-.059	-.045
53.50	8.7	- - -	-.041	- - -	-.064	- - -	-.035	- - -	-.043	- - -	-.036	- - -	-.038
	42.3	-.046	-.046	-.066	-.064	-.054	-.050	-.051	-.050	-.056	-.055	-.046	-.049
	70.7	-.045	-.048	-.078	-.078	-.055	-.055	-.053	-.055	-.059	-.064	-.054	-.079
56.50	8.7	-.054	-.047	-.076	-.069	-.066	-.048	-.052	-.044	-.065	-.078	-.059	-.048
	42.3	-.054	-.047	-.076	-.048	-.053	-.059	-.048	-.049	-.064	-.079	-.071	-.073
	70.7	-.051	-.052	-.070	-.077	-.078	-.051	-.054	-.056	-.066	-.069	-.067	-.068
59.50	8.7	-.038	-.037	-.077	-.055	-.039	-.046	-.055	-.043	-.068	-.059	-.058	-.069
	42.3	-.037	-.047	-.077	-.066	-.059	-.059	-.055	-.048	-.068	-.059	-.064	-.053
	70.7	-.068	-.051	-.086	-.077	-.065	-.063	-.065	-.066	-.069	-.078	-.066	-.069

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: 10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface	14 Upper surface	14 Lower surface	16 Upper surface	16 Lower surface	18 Upper surface	18 Lower surface
10	8.7	-0.084	0.133	-0.031	0.156	-0.054	0.180	-0.054	0.209	-0.058	0.224
	42.3	-.087	.092	-.039	.102	-.045	.116	-.078	.138	-.088	.121
	70.7	-.031	.053	-.057	.065	-.066	.068	-.108	.066	-.127	.063
15	8.7	-.050	-.064	-.064	.105	-.054	.130	-.060	.154	-.068	.159
	42.3	-.038	.038	-.069	.069	-.078	.097	-.100	.098	-.117	.118
	70.7	-.068	.020	-.088	.080	-.098	.085	-.183	.081	-.138	.021
20	8.7	-.069	.083	-.068	.058	-.064	.089	-.077	.106	-.076	.136
	42.3	-.072	.094	-.080	.031	-.085	.046	-.116	.088	-.127	.070
	70.7	-.082	-.087	-.100	-.028	-.106	-.088	-.131	-.037	-.143	-.033
25	8.7	-.070	-.045	-.089	.031	-.088	.051	-.069	.067	-.071	.089
	42.3	-.069	-.016	-.088	.004	-.087	.025	-.115	.064	-.138	.037
	70.7	-.090	-.049	-.108	-.044	-.105	-.041	-.136	-.039	-.138	-.045
28.50	8.7	-.069	-.008	-.070	-.083	-.074	-.046	-.068	-.048	-.080	.088
	42.3	-.077	-.005	-.080	0	-.088	.030	-.110	.013	-.134	.057
	70.7	-.090	-.031	-.097	-.040	-.097	-.047	-.121	-.049	-.136	-.048
31.50	8.7	-.072	-.068	-.087	.009	-.078	.015	-.070	.064	-.072	.088
	42.3	-.078	-.037	-.080	-.018	-.082	.005	-.113	-.002	-.138	.012
	70.7	-.090	-.060	-.093	-.059	-.097	-.054	-.138	-.078	-.137	-.064
34.50	8.7	-.054	.018	-.046	.007	-.030	.006	-.048	.043	-.088	.064
	42.3	-.088	-.027	-.078	-.018	-.073	-.009	-.130	-.003	-.189	.007
	70.7	-.080	-.040	-.088	-.039	-.085	-.054	-.108	-.072	-.117	-.086
38.00	8.7	-.068	- - -	-.054	- - -	-.046	- - -	-.059	- - -	-.068	- - -
	42.3	-.078	-.044	-.079	-.089	-.080	-.035	-.123	-.016	-.138	-.024
	70.7	-.072	-.069	-.086	-.040	-.077	-.041	-.108	-.082	-.115	-.093
41.50	8.7	-.058	-.089	-.047	-.066	-.041	.013	-.057	.088	-.044	.047
	42.3	-.068	-.054	-.070	-.051	-.057	-.083	-.119	-.088	-.138	-.024
	70.7	-.078	-.062	-.078	-.048	-.079	-.088	-.115	-.092	-.117	-.089
44.50	8.7	- - -	-.034	- - -	-.008	- - -	.003	- - -	.013	- - -	.033
	42.3	-.069	-.046	-.075	-.029	-.085	-.066	-.126	-.088	-.130	-.019
	70.7	-.073	-.078	-.080	-.078	-.077	-.087	-.100	-.100	-.113	-.102
47.50	8.7	-.049	-.031	-.039	-.008	-.035	.007	-.051	.019	-.066	.037
	42.3	-.061	-.044	-.066	-.031	-.088	-.066	-.081	-.084	-.078	-.013
	70.7	-.070	-.070	-.072	-.078	-.075	-.077	-.098	-.108	-.107	-.086
50.50	8.7	-.060	- - -	-.049	- - -	-.046	- - -	-.068	- - -	-.068	- - -
	42.3	-.070	-.063	-.075	-.050	-.069	-.044	-.125	-.056	-.136	-.025
	70.7	-.079	-.082	-.080	-.090	-.079	-.088	-.120	-.115	-.116	-.125
53.50	8.7	- - -	-.046	- - -	-.089	- - -	-.011	- - -	-.028	- - -	-.014
	42.3	-.068	-.060	-.076	-.049	-.065	-.046	-.129	-.053	-.125	-.035
	70.7	-.070	-.080	-.078	-.088	-.075	-.087	-.099	-.119	-.107	-.128
56.50	8.7	-.060	-.061	-.069	-.047	-.046	-.085	-.077	-.018	-.088	.003
	42.3	-.069	-.069	-.080	-.038	-.087	-.053	-.120	-.084	-.125	-.044
	70.7	-.068	-.090	-.087	-.096	-.077	-.100	-.088	-.082	-.091	-.130
59.50	8.7	-.069	-.048	-.074	-.044	-.044	-.015	-.069	-.007	-.079	.013
	42.3	-.067	-.068	-.079	-.056	-.087	-.035	-.110	-.086	-.125	-.048
	70.7	-.078	-.098	-.075	-.098	-.075	-.103	-.095	-.131	-.089	-.139

NACA

TABLE I.– CONTINUED

(j) M,0.90.

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
10	8.7	0.068	0.020	0.076	0.031	0.030	0.083	0.030	0.052	0.030	0.094	0.004	0.103
	42.3	.068	.020	.071	.051	.025	.025	.050	.078	.051	.088	.004	.087
	70.7	.098	.018	.064	.031	.088	.080	.058	.040	.051	.070	.008	.063
15	8.7	.038	-.012	.039	-.002	-.010	-.011	-.008	.012	-.023	.049	-.033	.035
	42.3	.088	-.020	.032	-.006	0	-.008	-.028	.002	-.023	.039	-.033	.035
	70.7	.013	-.016	.029	-.003	-.012	-.020	-.005	.003	-.023	.028	-.034	.017
20	8.7	-.004	-.037	.004	-.026	-.038	-.040	-.030	-.020	-.030	.019	-.030	.017
	42.3	-.022	-.037	0	-.029	-.039	-.042	-.032	-.021	-.030	.009	-.034	.009
	70.7	-.024	-.042	-.011	-.030	-.042	-.049	-.035	-.028	-.032	-.004	-.037	-.017
25	8.7	-.022	-.047	-.031	-.036	-.051	-.060	-.045	-.032	-.036	-.004	-.036	-.005
	42.3	-.032	-.049	-.031	-.038	-.061	-.060	-.030	-.035	-.041	-.019	-.063	-.015
	70.7	-.042	-.052	-.029	-.041	-.061	-.061	-.038	-.040	-.043	-.021	-.073	-.035
28.50	8.7	-.024	-.045	-.016	-.036	-.056	-.059	-.048	-.035	-.036	-.006	-.035	-.013
	42.3	-.034	-.045	-.021	-.036	-.060	-.060	-.050	-.038	-.037	-.011	-.052	-.015
	70.7	-.044	-.054	-.031	-.041	-.063	-.061	-.052	-.048	-.043	-.021	-.045	-.037
31.50	8.7	-.042	-.050	-.051	-.041	-.069	-.066	-.058	-.048	-.041	-.019	-.060	-.025
	42.3	-.042	-.052	-.052	-.041	-.069	-.069	-.058	-.045	-.041	-.026	-.065	-.035
	70.7	-.037	-.037	-.041	-.041	-.071	-.069	-.059	-.049	-.049	-.031	-.075	-.045
34.50	8.7	-.027	-.044	-.043	-.033	-.049	-.062	-.038	-.048	-.028	-.011	-.044	-.025
	42.3	-.036	-.044	-.036	-.033	-.059	-.061	-.047	-.040	-.032	-.018	-.048	-.025
	70.7	-.044	-.048	-.051	-.038	-.062	-.063	-.048	-.048	-.036	-.026	-.063	-.044
38.00	8.7	-.042	---	-.031	---	-.066	---	-.035	---	-.039	---	-.054	---
	42.3	-.052	-.058	-.041	-.041	-.033	-.066	-.058	-.050	-.040	-.029	-.057	-.035
	70.7	-.044	-.058	-.032	-.039	-.062	-.063	-.058	-.049	-.031	-.029	-.056	-.045
41.50	8.7	-.037	-.047	-.028	-.038	-.048	-.069	-.058	-.048	-.031	-.021	-.049	-.027
	42.3	-.043	-.050	-.031	-.040	-.018	-.064	-.050	-.049	-.031	-.030	-.058	-.042
	70.7	-.052	-.052	-.038	-.040	-.046	-.064	-.052	-.049	-.039	-.031	-.058	-.048
44.50	8.7	---	-.044	---	-.034	---	-.063	---	-.048	---	-.021	---	-.013
	42.3	-.052	-.044	-.048	-.033	-.071	-.063	-.059	-.049	-.038	-.029	-.054	-.035
	70.7	-.054	-.052	-.041	-.041	-.070	-.071	-.052	-.058	-.040	-.036	-.060	-.056
47.50	8.7	-.034	-.042	-.004	-.038	-.059	-.061	-.045	-.040	-.028	-.020	-.044	-.029
	42.3	-.028	-.042	.010	-.038	-.029	-.062	-.005	-.040	.008	-.022	-.005	-.036
	70.7	-.047	-.050	-.034	-.035	-.061	-.061	-.048	-.048	-.028	-.032	-.025	-.002
50.50	8.7	-.052	---	-.043	---	-.076	---	-.062	---	-.042	---	-.061	---
	42.3	-.059	-.055	-.040	-.046	-.074	-.074	-.061	-.061	-.042	-.041	-.064	-.056
	70.7	-.064	-.062	-.041	-.051	-.079	-.075	-.062	-.060	-.046	-.045	-.063	-.058
53.50	8.7	---	-.044	---	.036	---	-.064	---	-.051	---	-.031	---	-.044
	42.3	-.052	-.058	-.041	-.039	-.069	-.070	-.052	-.053	-.034	-.036	-.048	-.047
	70.7	-.052	-.052	-.041	-.043	-.069	-.071	-.051	-.054	-.038	-.043	-.055	-.067
56.50	8.7	-.062	-.044	-.051	-.043	-.079	-.061	-.062	-.067	-.040	-.041	-.047	-.051
	42.3	-.062	-.048	-.052	-.043	-.079	-.075	-.060	-.060	-.040	-.041	-.053	-.052
	70.7	-.055	-.056	-.045	-.048	-.078	-.075	-.055	-.066	-.051	-.045	-.058	-.070
59.50	8.7	-.036	-.026	-.052	-.018	-.073	-.053	-.059	-.059	-.038	-.024	-.041	-.038
	42.3	-.036	-.045	-.028	-.040	-.073	-.073	-.039	-.060	-.031	-.041	-.043	-.051
	70.7	-.066	-.055	-.023	-.049	-.078	-.075	-.062	-.043	-.052	-.049	-.051	-.071

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: 8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface	12, Upper surface	12, Lower surface	14, Upper surface	14, Lower surface	16, Upper surface	16, Lower surface	18, Upper surface	18, Lower surface
10	8.7	-0.018	0.124	-0.025	0.156	-0.044	0.183	-0.037	0.205	-0.061	0.251	-0.065	0.297
	42.3	-.026	.105	-.033	.127	-.060	.114	-.058	.173	-.096	.185	-.109	.228
	70.7	-.026	.064	-.045	.070	-.065	.068	-.067	.075	-.133	.059	-.139	.071
15	8.7	-.047	.082	-.052	.105	-.078	.132	-.079	.149	-.093	.190	-.087	.234
	42.3	-.049	.052	-.063	.078	-.088	.083	-.083	.107	-.128	.119	-.141	.154
	70.7	-.058	.022	-.075	.023	-.110	.013	-.107	.025	-.146	.008	-.148	.080
20	8.7	-.060	.034	-.045	.041	-.076	.082	-.048	.115	-.083	.140	-.074	.182
	42.3	-.068	.021	-.075	.045	-.095	.041	-.085	.064	-.140	.079	-.149	.109
	70.7	-.076	-.026	-.084	-.018	-.102	-.030	-.117	-.020	-.152	-.041	-.149	-.009
25	8.7	-.068	.007	-.064	.052	-.070	.049	.057	.077	-.098	.100	-.071	.141
	42.3	-.071	-.008	-.077	.006	-.108	.013	-.105	.035	-.149	.041	-.157	.071
	70.7	-.076	-.038	-.095	-.036	-.122	-.058	-.125	-.045	-.147	-.068	-.149	-.061
28.50	8.7	-.059	-.003	-.058	.025	-.065	.041	-.058	.070	-.072	.089	-.069	.131
	42.3	-.069	-.013	-.075	.004	-.098	.004	-.097	.025	-.144	.033	-.157	.059
	70.7	-.066	-.045	-.084	-.049	-.115	-.060	-.108	-.058	-.144	-.078	-.147	-.069
31.50	8.7	-.066	-.010	-.064	.006	-.072	.021	-.060	.035	-.083	.069	-.079	.106
	42.3	-.068	-.028	-.075	-.016	-.098	-.011	-.102	.006	-.158	.013	-.164	.041
	70.7	-.086	-.050	-.095	-.054	-.118	-.073	-.104	-.065	-.139	-.028	-.144	-.048
34.50	8.7	-.048	-.008	-.065	.008	-.049	.021	-.075	.053	-.062	.069	-.079	.106
	42.3	-.069	-.028	-.064	-.015	-.082	-.014	-.095	.009	-.144	.008	-.149	.033
	70.7	-.070	-.049	-.076	-.052	-.098	-.078	-.095	-.065	-.131	-.053	-.131	-.067
38.00	8.7	-.056	---	-.047	---	-.060	---	-.066	---	-.078	---	-.079	---
	42.3	-.067	-.036	-.073	-.025	-.105	-.024	-.113	-.005	-.163	-.008	-.178	.083
	70.7	-.068	-.054	-.075	-.063	-.092	-.060	-.087	-.073	-.123	-.098	-.127	-.095
41.50	8.7	-.048	-.018	-.063	-.004	-.052	.006	-.043	.033	-.073	.047	-.074	.121
	42.3	-.062	-.039	-.060	-.030	-.095	-.029	-.104	-.023	-.158	-.022	-.157	.011
	70.7	-.068	-.061	-.075	-.065	-.095	-.087	-.090	-.077	-.123	-.103	-.129	-.131
44.50	8.7	---	-.026	---	-.023	---	.041	---	-.025	---	.038	---	.071
	42.3	-.061	-.037	-.063	-.026	-.102	-.029	-.113	-.025	-.154	-.022	-.159	.018
	70.7	-.068	-.067	-.074	-.092	-.092	-.090	-.087	-.068	-.123	-.113	-.127	-.111
47.50	8.7	-.040	-.019	-.035	-.008	-.047	-.100	-.077	.026	-.073	.038	-.074	.071
	42.3	-.021	-.037	-.025	-.030	-.048	-.031	-.067	-.015	-.085	-.115	-.061	.004
	70.7	-.061	-.061	-.068	-.066	-.089	-.090	-.083	-.085	-.115	-.113	-.119	-.111
50.50	8.7	-.049	---	-.049	---	-.060	---	-.058	---	-.093	---	-.091	---
	42.3	-.016	-.058	-.071	-.048	-.109	-.049	-.019	-.025	-.147	-.034	-.149	-.014
	70.7	-.068	-.078	-.075	-.085	-.095	-.110	-.090	-.003	-.123	-.113	-.124	-.129
53.50	8.7	---	-.057	---	-.025	---	-.019	---	.005	---	.019	---	.049
	42.3	-.061	-.049	-.070	-.045	-.105	-.049	-.103	-.035	-.115	-.037	-.134	-.019
	70.7	-.066	-.078	-.069	-.080	-.088	-.105	-.080	-.097	-.113	-.131	-.109	-.129
56.50	8.7	-.048	-.060	-.045	-.043	-.068	-.035	-.064	---	-.098	.001	-.097	.038
	42.3	-.063	-.068	-.074	-.054	-.107	-.061	-.105	---	-.139	-.048	-.137	-.085
	70.7	-.061	-.090	-.064	-.054	-.081	-.012	---	---	-.109	-.139	-.100	-.136
59.50	8.7	-.046	-.038	-.044	-.087	-.061	---	---	---	-.089	-.091	-.098	.045
	42.3	-.060	-.066	-.073	-.054	-.102	---	---	---	-.119	-.049	-.121	-.031
	70.7	-.069	-.090	-.066	-.054	---	---	---	---	-.111	-.118	-.111	-.143

NACA

TABLE I.– CONTINUED

(k) M,0.92.

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
10	8.7	0.008	0.027	0.063	0.006	0.043	0.039	-0.043	0.066	0.029	0.096	0.019	0.128
	42.3	-.018	.017	.068	.007	.041	.033	-.043	.046	.038	.082	.017	.114
	70.7	.069	.017	.056	.029	.039	.035	-.041	.068	.038	.075	.015	.085
15	8.7	.044	-.016	.024	-.010	.004	0	.010	.008	-.004	.049	-.016	.020
	42.3	.036	-.004	.021	-.013	.002	-.008	.008	.019	-.008	.038	-.017	.010
	70.7	.025	-.020	.019	-.013	.001	-.006	.010	.018	-.006	.028	-.019	.021
20	8.7	.005	-.042	-.010	-.038	-.006	-.031	-.019	.005	-.030	.024	-.032	.041
	42.3	-.003	-.040	-.011	-.039	-.027	-.034	-.019	-.020	-.030	.004	-.035	-.003
	70.7	-.015	-.045	-.021	-.040	-.033	-.036	-.021	-.018	-.038	-.008	-.045	.002
25	8.7	-.015	-.051	-.025	-.049	-.039	-.037	-.029	-.021	-.039	-.008	-.039	.017
	42.3	-.027	-.050	-.035	-.049	-.045	-.047	-.037	-.021	-.042	-.013	-.047	.004
	70.7	-.034	-.054	-.040	-.054	-.047	-.048	-.037	-.029	-.038	-.022	-.050	-.018
28.50	8.7	-.025	-.051	-.038	-.048	-.047	-.047	-.038	-.024	-.042	-.011	-.048	.006
	42.3	-.032	-.053	-.039	-.050	-.047	-.047	-.038	-.024	-.040	-.016	-.045	.002
	70.7	-.019	-.057	-.042	-.053	-.050	-.058	-.040	-.031	-.050	-.027	-.058	-.018
31.50	8.7	-.036	-.054	-.048	-.058	-.055	-.050	-.047	-.034	-.049	-.020	-.040	0
	42.3	-.039	-.054	-.049	-.058	-.054	-.056	-.047	-.037	-.049	-.038	-.043	-.013
	70.7	-.052	-.056	-.058	-.055	-.059	-.054	-.047	-.034	-.050	-.031	-.052	-.027
34.50	8.7	-.023	-.045	-.029	-.048	-.017	-.048	-.024	-.024	-.039	-.119	-.026	.002
	42.3	-.032	-.044	-.048	-.045	-.047	-.047	-.011	-.028	-.017	-.020	-.039	-.008
	70.7	-.039	-.048	-.043	-.045	-.045	-.049	-.031	-.029	-.040	-.038	-.045	-.026
38.00	8.7	-.034	---	-.045	---	-.055	---	.047	---	-.045	---	-.027	---
	42.3	-.052	-.055	-.058	-.055	-.065	-.055	-.047	-.036	-.049	-.032	-.045	-.018
	70.7	-.044	-.052	-.040	-.050	-.049	-.052	-.034	-.031	-.040	-.031	-.040	-.027
41.50	8.7	-.034	-.046	-.040	-.050	-.049	-.055	-.034	-.034	-.034	-.024	-.029	-.018
	42.3	-.041	-.046	-.043	-.051	-.054	-.056	-.046	-.038	-.038	-.032	-.032	-.022
	70.7	-.046	-.052	-.050	-.051	-.055	-.056	-.039	-.037	-.041	-.036	-.041	-.035
44.50	8.7	---	-.044	---	-.050	---	-.055	---	-.034	---	-.029	.008	-.013
	42.3	-.046	-.046	-.050	-.050	-.057	-.053	-.041	-.036	-.044	-.034	-.017	-.018
	70.7	-.053	-.054	-.058	-.058	-.057	-.057	-.041	-.042	-.045	-.042	-.045	-.037
47.50	8.7	-.034	-.043	-.040	-.043	-.047	-.045	-.011	-.027	-.032	-.022	-.002	-.010
	42.3	.003	-.043	-.001	-.045	-.008	-.048	.010	-.038	.009	-.026	.014	-.018
	70.7	-.044	-.046	-.045	-.048	-.048	-.049	-.034	-.031	-.034	-.035	-.037	-.035
50.50	8.7	-.054	---	-.060	---	-.027	---	-.049	---	-.046	---	-.036	---
	42.3	-.056	-.059	-.059	-.060	-.065	-.066	-.047	-.049	-.045	-.040	-.038	-.037
	70.7	-.064	-.068	-.060	-.060	-.067	-.067	-.049	-.049	-.050	-.042	-.047	-.039
53.50	8.7	---	-.045	---	-.050	---	-.057	---	-.038	---	-.035	---	-.022
	42.3	-.045	-.053	-.050	-.057	-.055	-.059	-.039	-.041	-.040	-.042	-.032	-.030
	70.7	-.055	-.058	-.055	-.059	-.057	-.060	-.039	-.045	-.048	-.048	-.039	-.047
56.50	8.7	-.064	-.053	-.069	-.067	-.064	-.064	-.049	-.049	-.046	-.049	-.033	-.044
	42.3	-.064	-.054	-.069	-.066	-.069	-.063	-.049	-.049	-.046	-.049	-.027	-.047
	70.7	-.060	-.062	-.066	-.067	-.054	-.064	-.046	-.050	-.039	-.058	-.037	-.056
59.50	8.7	-.062	-.027	-.067	-.037	-.061	-.034	-.046	-.019	-.049	-.018	-.027	-.018
	42.3	-.063	-.050	-.067	-.063	-.063	-.058	-.047	-.044	-.042	-.044	-.036	-.049
	70.7	-.075	-.056	-.077	-.064	-.065	-.064	-.049	-.049	-.049	-.058	-.041	-.058

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: 8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface	12, Upper surface	12, Lower surface	14, Upper surface	14, Lower surface	16, Upper surface	16, Lower surface	18, Upper surface	18, Lower surface
10	8.7	-0.002	0.132	-0.025	0.160	-0.029	0.200	-0.028	0.246	-0.049	0.270	-0.019	0.334
	42.3	-.005	.113	-.033	.130	-.042	.157	-.047	.176	-.087	.203	-.080	.256
	70.7	-.009	.079	-.047	.073	.032	.082	-.061	.094	-.126	.076	-.109	.166
15	8.7	-.034	.083	-.050	.107	-.053	.143	-.045	.196	-.068	.218	-.034	.179
	42.3	-.016	.062	-.062	.071	-.028	.090	-.076	.138	-.119	.135	-.112	.192
	70.7	-.044	.032	-.077	.025	-.055	.051	-.113	.061	-.139	.084	-.118	.054
20	8.7	-.051	.042	-.067	.061	-.064	.093	-.048	.134	-.078	.134	-.053	.218
	42.3	-.056	.083	-.079	.013	-.088	.054	-.069	.138	-.131	.094	-.129	.143
	70.7	-.065	-.009	-.097	-.018	-.111	-.017	-.108	.042	-.140	-.038	-.183	-.060
25	8.7	-.052	.013	-.067	.031	-.062	.138	-.048	-.140	-.067	.125	-.042	.179
	42.3	-.066	.001	-.085	.004	-.091	.089	-.088	.082	-.042	.056	-.031	.109
	70.7	-.075	-.008	-.099	-.042	-.106	-.042	-.110	-.004	-.139	-.061	-.123	-.033
28.50	8.7	-.055	.011	-.062	.012	-.053	.053	-.046	.061	-.068	.105	-.042	.182
	42.3	-.061	-.006	-.079	0	-.088	.066	-.095	.026	-.119	.064	-.110	.094
	70.7	-.075	-.034	-.097	-.047	-.009	-.046	-.103	-.045	-.137	-.062	-.119	-.036
31.50	8.7	-.056	-.007	-.067	.007	-.063	.034	-.067	.072	-.073	.085	-.053	.138
	42.3	-.061	-.022	-.079	-.018	-.088	-.003	-.090	.031	-.148	.064	-.130	.074
	70.7	-.075	-.041	-.097	-.057	-.096	-.062	-.095	-.004	-.131	-.061	-.113	-.053
34.50	8.7	-.036	-.008	-.047	.007	-.034	.034	-.085	.114	-.090	.080	-.052	.140
	42.3	-.073	-.017	-.069	-.018	-.079	-.001	-.083	.003	-.139	.004	-.129	.073
	70.7	-.084	-.041	-.080	-.057	-.085	-.060	-.086	-.035	-.078	-.082	-.108	-.063
38.00	8.7	-.048	---	-.055	---	-.044	---	-.037	---	-.084	---	-.051	.188
	42.3	-.058	-.026	-.077	-.028	-.093	-.014	-.114	.024	-.139	.007	-.119	.061
	70.7	-.058	-.044	-.079	-.062	-.083	-.064	-.084	-.066	-.116	-.041	-.104	-.068
41.50	8.7	-.041	-.017	-.047	-.008	-.040	.016	-.038	.081	-.063	.056	-.051	.116
	42.3	-.048	-.031	-.069	-.015	-.065	-.028	-.072	.003	-.140	-.080	-.131	.085
	70.7	-.064	-.051	-.079	-.067	-.084	-.073	-.086	-.072	-.130	-.102	-.108	-.074
44.50	8.7	---	-.019	---	-.010	---	.007	---	.049	---	.052	---	.130
	42.3	-.051	-.046	-.063	-.031	-.092	-.027	-.130	.081	-.150	.001	-.132	.064
	70.7	-.061	-.056	-.077	-.075	-.085	-.062	-.085	-.077	-.116	-.110	-.100	-.081
47.50	8.7	-.006	-.017	-.026	-.017	-.034	.027	-.028	.046	-.063	.046	-.045	.104
	42.3	-.042	-.026	-.002	-.026	-.034	-.018	-.046	.002	-.075	-.002	-.095	.042
	70.7	-.056	-.053	-.056	-.053	-.075	-.062	-.076	-.078	-.110	-.132	-.090	-.083
50.50	8.7	-.046	---	-.046	---	-.046	---	-.048	---	-.068	---	-.064	.158
	42.3	-.027	-.049	-.017	-.049	-.141	-.043	-.110	-.019	-.140	-.038	-.128	.015
	70.7	-.066	-.073	-.066	-.073	-.084	-.104	-.086	-.081	-.121	-.129	-.100	-.102
53.50	8.7	---	-.031	---	-.031	---	-.009	---	-.005	---	.006	---	.020
	42.3	-.051	-.046	-.051	-.046	-.092	-.042	-.095	-.018	-.131	-.089	-.096	.085
	70.7	-.056	-.066	-.056	-.066	-.077	-.095	-.075	-.094	-.109	-.132	-.082	.100
56.50	8.7	-.046	-.051	-.046	-.042	-.054	-.010	-.058	.008	-.091	.080	-.064	.064
	42.3	-.056	-.062	-.056	-.062	-.095	-.038	-.098	-.080	-.133	-.082	-.109	.008
	70.7	-.052	-.080	-.065	-.094	-.097	-.048	-.063	-.095	-.060	-.117	-.073	-.101
59.50	8.7	-.040	-.084	-.042	-.031	-.036	-.009	-.050	.017	-.068	.037	-.066	.067
	42.3	-.058	-.054	-.073	-.062	-.085	-.039	-.087	-.031	-.092	-.084	-.092	-.008
	70.7	-.061	-.061	-.072	-.098	-.060	-.090	-.074	-.092	-.089	-.118	-.098	-.116

NACA

TABLE I.- CONCLUDED

(1) M,0.94.

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
10	8.7	0.001	0.033	0.002	-0.038	---	---	0.047	0.081	0.095	0.109	0.043	0.138
	42.3	.004	.035	.077	-.041	---	---	.049	.075	.092	.141	.043	.136
	70.7	.015	.035	.074	-.036	---	---	.040	.066	.040	.087	.041	.105
15	8.7	.046	-.002	.034	.003	---	---	.007	-.035	.008	.049	.038	.088
	42.3	.043	-.008	.032	-.005	---	---	.007	-.006	.008	.049	.030	.072
	70.7	.031	-.003	.030	.001	---	---	.007	-.004	.008	.040	.008	.057
20	8.7	.007	-.032	.003	-.089	---	---	-.024	.002	-.008	.006	-.017	.048
	42.3	.002	-.032	-.002	-.087	---	---	-.007	-.005	-.002	.016	-.018	.039
	70.7	-.011	-.033	-.013	-.094	---	---	-.030	-.022	-.004	.002	-.013	.025
25	8.7	-.012	-.041	-.016	-.049	---	---	-.039	-.088	-.031	-.002	-.029	-.088
	42.3	-.008	-.041	-.009	-.034	---	---	-.041	-.088	-.036	-.025	-.009	-.018
	70.7	-.031	-.042	-.031	-.043	---	---	-.043	-.050	-.029	-.024	-.027	-.024
28.50	8.7	-.008	-.041	-.025	-.034	---	---	-.041	-.088	-.033	-.007	-.025	-.088
	42.3	-.007	-.041	-.008	-.034	---	---	-.041	-.088	-.033	-.007	-.029	-.021
	70.7	-.033	-.049	-.035	-.046	---	---	-.043	-.039	-.041	-.019	-.037	-.006
31.50	8.7	-.039	-.046	-.038	-.045	---	---	-.051	-.039	-.040	-.022	-.029	-.008
	42.3	-.045	-.046	-.040	-.048	---	---	-.052	-.036	-.040	-.022	-.032	-.006
	70.7	-.046	-.032	-.050	-.047	---	---	-.051	-.038	-.046	-.007	-.038	-.026
34.50	8.7	-.050	-.040	-.017	-.043	---	---	-.038	-.029	-.022	-.008	-.009	-.026
	42.3	-.030	-.039	-.030	-.038	---	---	-.028	-.029	-.025	-.012	-.018	-.003
	70.7	-.033	-.042	-.035	-.046	---	---	-.029	-.033	-.031	-.020	-.027	-.009
38.00	8.7	-.034	---	-.038	---	---	---	-.046	---	-.036	---	-.016	---
	42.3	-.049	-.049	-.050	-.054	---	---	-.028	-.039	-.041	-.022	-.030	-.008
	70.7	-.039	-.046	-.035	-.034	---	---	-.039	-.036	-.031	-.023	-.024	-.016
41.50	8.7	-.038	-.046	-.035	-.045	---	---	-.041	-.036	-.029	-.020	-.018	-.001
	42.3	-.036	-.046	-.038	-.045	---	---	-.041	-.046	-.029	-.027	-.020	-.011
	70.7	-.046	-.046	-.045	-.045	---	---	-.043	-.040	-.036	-.029	-.029	-.018
44.50	8.7	---	-.042	---	-.044	---	---	---	-.038	---	-.022	---	-.007
	42.3	-.041	-.042	-.045	-.043	---	---	-.046	-.036	-.033	-.022	-.027	-.008
	70.7	-.049	-.051	-.048	-.046	---	---	-.046	-.043	-.036	-.033	-.029	-.014
47.50	8.7	-.038	-.039	-.034	-.035	---	---	-.033	-.032	-.024	-.014	-.028	-.001
	42.3	-.039	-.039	-.041	-.035	---	---	-.029	-.033	-.017	-.022	-.025	-.007
	70.7	-.040	-.041	-.035	-.040	---	---	-.038	-.036	-.030	-.027	-.025	-.016
50.50	8.7	-.038	---	-.028	---	---	---	-.036	---	-.039	---	-.025	---
	42.3	-.055	-.053	-.055	-.054	---	---	-.051	-.053	-.039	-.041	-.027	-.027
	70.7	-.050	-.058	-.057	-.057	---	---	-.053	-.055	-.046	-.046	-.037	-.039
53.50	8.7	---	-.043	---	---	---	---	---	-.041	---	-.029	---	-.013
	42.3	-.043	-.046	-.045	---	---	---	-.043	-.046	-.031	-.030	-.030	-.020
	70.7	-.049	-.051	---	---	---	---	-.043	-.049	-.038	-.039	-.027	-.032
56.50	8.7	-.040	-.004	---	-.032	---	-.038	-.031	-.045	-.039	-.035	-.024	-.038
	42.3	-.040	-.004	---	-.032	---	-.032	-.022	-.044	-.039	-.033	-.027	-.038
	70.7	0	0	-.038	-.032	-.017	-.038	-.031	-.049	-.035	-.041	-.024	-.043
59.50	8.7	0	-.000	-.038	-.015	-.024	-.015	-.035	-.025	-.028	-.014	-.028	-.009
	42.3	-.001	-.018	-.030	-.024	-.024	-.029	-.035	-.036	-.025	-.024	-.021	-.036
	70.7	-.020	-.045	-.042	-.031	-.032	-.038	-.039	-.043	-.038	-.041	-.030	-.049

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: 8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface	14 Upper surface	14 Lower surface	16 Upper surface	16 Lower surface
10	8.7	0.016	0.159	-0.004	0.167	-0.008	0.211	-0.017	0.249	-0.033	0.289
	42.3	.009	.139	-.007	.138	-.008	.173	-.048	.196	-.007	.223
	70.7	.007	.109	-.046	.080	-.045	.099	-.078	.089	-.108	.098
15	8.7	-.014	.109	-.029	.110	-.034	.154	-.033	.195	-.058	.214
	42.3	-.022	.081	-.046	.073	-.041	.109	-.073	.131	-.106	.155
	70.7	-.026	.002	-.075	.048	-.074	.048	-.100	.043	-.119	.039
20	8.7	-.043	.064	-.069	.048	-.047	.108	-.008	.138	-.061	.178
	42.3	-.041	.045	-.078	.033	-.078	.049	-.089	.090	-.121	.119
	70.7	-.058	.028	-.087	-.017	-.089	0	-.110	-.024	-.130	.037
25	8.7	-.036	.034	-.064	.008	-.046	.049	-.037	.100	-.054	.129
	42.3	-.055	.039	-.085	.004	-.074	.037	-.086	.054	-.131	.071
	70.7	-.068	-.014	-.103	-.044	-.083	-.047	-.108	-.033	-.129	-.046
28.50	8.7	-.035	-.007	-.069	.003	-.031	.008	-.041	.091	-.053	.116
	42.3	-.048	.014	-.085	-.001	-.072	.030	-.083	.045	-.133	.098
	70.7	-.068	-.039	-.102	-.049	-.089	-.034	-.100	-.051	-.128	-.024
31.50	8.7	-.043	.003	.061	.008	-.044	.040	-.051	.072	-.065	.098
	42.3	-.048	-.024	-.083	-.020	-.074	.010	-.093	.024	-.138	.034
	70.7	-.068	-.089	-.100	-.048	-.084	-.046	-.098	-.055	-.130	-.072
34.50	8.7	-.024	.016	-.044	.004	-.027	.040	-.089	.047	-.038	.080
	42.3	-.034	.003	-.073	-.025	-.048	.007	-.071	.014	-.124	.033
	70.7	-.048	-.025	-.087	-.059	-.074	-.048	-.089	-.057	-.111	-.075
38.00	8.7	-.033	---	-.056	---	-.037	---	-.041	---	-.044	.156
	42.3	-.043	-.007	-.081	-.030	-.074	-.005	-.138	.014	-.146	.121
	70.7	-.043	-.031	-.081	-.065	-.087	-.073	-.081	-.081	-.149	-.088
41.50	8.7	-.024	.005	-.058	-.049	-.089	.025	-.033	.051	-.054	.048
	42.3	-.035	-.014	-.073	-.035	-.078	-.025	-.100	.025	-.136	.013
	70.7	-.049	-.033	-.081	-.072	-.078	-.037	-.086	.024	-.111	-.090
44.50	8.7	---	-.003	---	-.015	---	.016	---	.043	---	.041
	42.3	-.038	-.013	-.061	-.035	-.076	-.006	-.109	.005	-.141	.009
	70.7	-.048	-.041	-.083	-.061	-.070	-.049	-.083	-.080	-.109	-.095
47.50	8.7	-.016	.005	-.044	-.008	-.085	.021	-.013	.043	-.056	.025
	42.3	-.015	-.010	-.085	-.035	-.017	-.006	-.040	.005	-.075	.005
	70.7	-.040	-.035	-.073	-.075	-.085	-.043	-.080	-.038	-.100	-.089
50.50	8.7	-.038	---	-.056	---	-.036	---	-.054	---	-.079	---
	42.3	-.041	-.053	-.089	-.059	-.084	-.038	-.109	-.085	-.135	-.085
	70.7	-.038	-.048	-.085	-.100	-.078	-.084	-.086	-.089	-.111	-.114
53.50	8.7	---	-.014	---	-.030	---	.002	---	.008	---	.024
	42.3	-.035	-.029	-.061	-.024	-.078	-.029	-.089	-.022	-.188	-.015
	70.7	-.043	-.049	-.076	-.071	-.085	-.076	-.076	-.092	-.100	-.112
56.50	8.7	-.029	-.030	-.056	-.041	-.044	-.017	-.061	-.008	-.082	-.029
	42.3	-.040	-.037	-.087	-.050	-.084	-.044	-.109	-.013	-.121	-.038
	70.7	-.038	-.060	-.085	-.078	-.084	-.071	-.070	-.104	-.097	-.124
59.50	8.7	-.013	-.014	-.041	-.022	-.055	-.006	-.053	-.008	-.072	-.034
	42.3	-.034	-.031	-.075	-.056	-.076	-.040	-.090	-.032	-.108	-.032
	70.7	-.039	-.048	-.070	-.087	-.063	-.091	-.075	-.100	-.099	-.134

NACA

TABLE II.— PRESSURE COEFFICIENTS ON A FUSELAGE IN COMBINATION WITH A WING HAVING A SWEEPBACK ANGLE OF 45° AND AN ASPECT RATIO OF 4.

(a) M,0.40.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4		-2		0		2		4		6	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7	0.135	0.003	0.066	0.013	0.034	0.022	0.013	0.038	0.006	0.066	0	0.216
	42.3	.075	.003	.060	.013	.034	.022	.013	.034	.009	.063	-.003	.072
	70.7	.044	.003	.047	.013	.031	.022	.013	.032	.009	.041	-.009	.060
15	8.7	-.035	.028	.035	.003	.003	.005	0	.006	-.013	.035	-.028	.066
	42.3	.028	-.025	.019	0	.009	.003	0	.003	-.013	.019	-.028	.038
	70.7	.006	-.028	.009	.003	.003	.003	0	.003	-.003	.006	-.028	.013
20	8.7	.009	---	.006	---	-.013	---	-.025	---	-.028	---	-.034	---
	42.3	.003	-.035	.003	-.025	-.019	-.025	-.025	-.006	-.028	.006	-.038	.019
	70.7	-.006	-.035	.003	-.025	-.022	-.025	-.025	-.006	-.028	.003	-.035	.003
25	8.7	.003	-.047	.003	-.028	-.025	-.025	-.028	-.006	-.035	.003	-.044	.028
	42.3	-.003	-.041	0	-.028	-.028	-.025	-.031	-.022	-.035	.003	-.035	.006
	70.7	-.022	-.041	0	-.028	-.028	-.025	-.031	-.025	-.035	-.028	-.039	-.013
28.50	8.7	.003	-.050	.003	-.028	-.028	-.028	-.039	-.006	-.035	.003	-.053	.034
	42.3	0	-.041	-.003	-.028	-.028	-.028	-.039	-.006	-.035	.003	-.053	.019
	70.7	-.006	-.041	0	-.028	-.028	-.028	-.039	-.009	-.035	-.016	-.059	-.003
31.50	8.7	.003	-.060	.003	-.028	-.028	-.028	-.039	-.009	-.053	.003	-.063	.003
	42.3	.003	-.057	0	-.028	-.028	-.044	-.039	-.009	-.060	.003	-.063	.003
	70.7	.003	-.053	0	-.028	-.025	-.025	-.038	0	-.056	.003	-.066	.006
34.50	8.7	.083	-.060	.013	-.028	-.006	-.028	-.028	0	-.055	.009	-.063	.038
	42.3	.122	-.060	.009	-.028	-.013	-.025	-.051	.003	-.044	.009	-.072	.041
	70.7	.016	-.060	.006	-.025	-.003	0	-.028	.003	-.059	-.028	-.091	.041
37.50	8.7	.022	---	.003	---	-.051	---	-.060	---	-.085	---	-.116	-.128
	42.3	.025	-.091	.003	-.097	-.054	-.034	-.060	0	-.083	.035	-.122	.046
	70.7	.044	-.104	.022	-.097	-.025	-.028	-.060	.003	-.091	.041	-.156	.062
41.50	8.7	.028	-.104	.003	-.060	-.070	-.056	-.069	-.022	-.091	.009	-.128	.039
	42.3	.013	-.116	0	-.072	-.047	-.028	-.075	-.025	-.097	.009	-.131	.039
	70.7	.025	-.148	0	-.088	-.054	-.028	-.091	-.025	-.129	.019	-.139	.041
44.50	8.7	---	-.113	---	-.072	---	-.060	---	-.028	---	.003	---	.041
	42.3	.003	-.123	-.025	-.088	-.060	-.063	-.091	-.032	-.116	.003	-.173	.038
	70.7	.003	-.151	-.028	-.104	-.075	-.091	-.107	-.054	-.129	-.028	-.184	.034
47.50	8.7	.003	-.077	-.025	-.072	-.060	-.060	-.065	-.034	-.091	-.003	-.128	.034
	42.3	.025	-.116	.003	-.085	-.085	-.063	-.031	-.038	-.053	-.006	-.078	.028
	70.7	-.003	-.129	-.028	-.094	-.082	-.085	-.107	-.056	-.123	-.019	-.159	.022
50.50	8.7	-.013	---	-.028	---	-.060	---	-.088	-.100	-.091	---	.116	---
	42.3	-.019	-.107	-.028	-.072	-.060	-.063	-.088	-.053	-.091	-.028	-.122	.066
	70.7	-.028	-.119	-.041	-.066	-.075	-.085	-.091	-.063	-.107	-.028	-.147	.069
53.50	8.7	---	-.082	---	-.060	---	-.056	---	-.034	---	-.013	---	.003
	42.3	-.013	-.075	-.028	-.060	-.053	-.056	-.060	-.034	-.066	-.025	-.091	.003
	70.7	-.022	-.075	-.028	-.097	-.053	-.056	-.060	-.034	-.066	-.016	-.091	.003
56.50	8.7	-.025	-.060	-.028	-.044	-.044	-.050	-.056	-.034	-.060	---	-.066	-.006
	42.3	-.019	-.057	-.022	-.035	-.044	-.044	-.050	-.031	-.097	---	-.066	-.006
	70.7	-.013	-.054	-.046	-.038	-.028	-.034	-.034	-.028	---	---	-.050	-.006
59.50	8.7	-.028	-.038	-.025	-.025	-.028	-.028	-.031	-.028	---	---	-.044	.009
	42.3	-.022	-.038	-.022	-.025	-.028	-.028	-.031	-.028	---	---	-.044	-.013
	70.7	-.019	-.035	-.022	-.025	-.028	-.028	-.034	-.028	---	---	-.038	-.028

Station (in.)	Percent fuselage radius	Angle of attack, degrees: 8		10		12		14		16		18	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7	-0.022	0.128	-0.028	0.144	-0.034	0.184	-0.053	0.197	-0.078	0.244	---	---
	42.3	-.025	.097	-.034	.122	-.053	.134	-.063	.144	-.093	.167	---	---
	70.7	-.031	.059	-.059	.059	-.084	.059	-.106	.041	-.125	.071	---	---
15	8.7	-.034	.091	-.053	.113	-.053	.144	-.059	.128	-.062	.192	---	---
	42.3	-.041	.083	-.056	.072	-.066	.097	-.088	.097	-.119	.061	---	---
	70.7	-.056	.019	-.075	.019	-.091	.019	-.129	.006	-.141	.003	---	---
20	8.7	-.053	---	-.056	---	-.079	---	-.063	---	-.132	.154	---	---
	42.3	-.053	.034	-.059	.059	-.084	.066	-.094	.072	-.188	.068	---	---
	70.7	-.066	.003	-.091	.003	-.097	0	-.122	-.022	-.209	-.089	---	---
25	8.7	-.053	.059	-.059	.034	-.059	.066	-.084	.113	-.090	.132	---	---
	42.3	-.056	.034	-.075	.003	-.091	.063	-.113	.066	-.154	.095	---	---
	70.7	-.084	-.013	-.091	-.022	-.119	-.085	-.128	-.068	-.156	-.042	---	---
28.50	8.7	-.059	.066	-.074	.081	-.088	.103	-.091	.128	-.119	.135	---	---
	42.3	-.063	.034	-.088	.050	-.116	.066	-.138	.072	-.177	.068	---	---
	70.7	-.084	-.003	-.097	-.013	-.122	-.022	-.147	-.028	-.170	-.039	---	---
31.50	8.7	-.084	.066	-.093	.091	-.116	.128	-.128	.144	-.162	.164	---	---
	42.3	-.084	.041	-.116	.034	-.138	.072	-.173	.091	-.061	.109	---	---
	70.7	-.091	.009	-.122	.003	-.159	.003	-.178	-.013	-.039	-.006	---	---
34.50	8.7	-.091	.084	-.116	.113	-.150	.153	-.178	.166	-.222	.208	---	---
	42.3	-.116	.072	-.147	.097	-.181	.128	-.241	.128	-.260	.138	---	---
	70.7	-.128	.056	-.184	.059	-.222	.066	-.263	.059	-.322	.078	---	---
37.50	8.7	-.193	---	-.194	.134	-.241	.153	-.273	.144	-.331	---	---	---
	42.3	-.209	.103	-.244	.134	-.304	.168	-.366	.171	-.453	.235	---	---
	70.7	-.222	.128	-.300	.128	-.347	.188	-.441	.197	-.550	.231	---	---
41.50	8.7	-.178	.066	-.191	.159	-.247	.192	-.247	.216	-.308	.299	---	---
	42.3	-.213	.066	-.272	.147	-.341	.191	-.403	.197	-.511	.260	---	---
	70.7	-.247	.097	-.250	.166	-.397	.228	-.463	.238	-.550	.291	---	---
44.50	8.7	---	.091	---	.097	---	.159	---	.191	---	.238	---	---
	42.3	-.216	.091	-.263	.097	-.334	.159	-.403	.191	-.511	.288	---	---
	70.7	-.244	.091	-.028	.097	-.366	.166	-.403	.197	-.479	.254	---	---
47.50	8.7	-.153	.034	-.184	.097	-.200	.134	-.216	.159	-.291	.196	---	---
	42.3	-.118	.034	-.147	.097	-.191	.134	-.247	.159	-.370	.196	---	---
	70.7	-.213	.034	-.253	.097	-.294	.134	-.329	.159	-.388	.196	---	---
50.50	8.7	-.147	---	-.193	---	-.138	---	-.184	---	-.419	---	---	---
	42.3	-.193	.041	-.188	.078	-.244	.097	-.303	.103	-.419	.158	---	---
	70.7	-.178	.034	-.209	.066	-.222	.091	-.253	.100	-.334	.158	---	---
53.50	8.7	---	.003	---	.066	---	.081	---	.091	---	---	---	---
	42.3	-.116	.009	-.128	.050	-.169	.072	-.216	.078	-.308	---	---	---
	70.7	-.116	.008	-.128	.041	-.153	.069	-.184	.069	-.308	---	---	---
56.50	8.7	-.084	.003	-.088	---	-.091	.047	-.116	.066	---	.047	---	.092
	42.3	-.084	.009	-.091	---	-.097	.044	-.128	.044	---	.073	---	.067
	70.7	---	.003	---	---	-.080	.041	-.117	.041	-.153	.041	.251	.038
59.50	8.7	-.059	.019	---	---	-.058	.041	-.079	.041	-.073	.066	-.098	.067
	42.3	-.059	.003	---	---	-.060	.041	-.082	.041	-.085	.044	-.108	.038
	70.7	-.044	-.028	---	---	-.066	-.016	-.082	-.006	-.110	-.006	-.213	-.013

NACA

TABLE II.- CONTINUED

(b) M,0.60.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
10	5.7	0.066	0.008	0.081	0.015	0.040	0.009	0.086	0.002	0.010	0.000	0.0	0.108
	42.3	.077	.015	.060	.017	.041	.030	.030	.041	.011	.071	.004	.096
	78.7	.065	.009	.054	.000	.039	.001	.027	.040	.021	.072	.024	.059
15	5.7	.051	-.015	.052	-.001	.018	.020	-.006	.021	-.009	.090	-.219	.070
	42.3	.047	-.011	.030	-.020	.000	0	-.009	.013	-.009	.058	-.084	.060
	78.7	.038	-.010	.008	-.005	.006	-.005	0	.012	-.009	.027	-.022	.036
20	5.7	.000	- - -	.013	- - -	-.010	- - -	-.025	- - -	-.031	- - -	-.039	- - -
	42.3	.021	-.039	.004	-.021	-.011	-.021	-.021	-.006	-.030	.000	-.047	.038
	78.7	-.008	-.038	-.001	-.007	-.001	-.003	-.001	-.011	-.050	0	-.049	-.021
25	5.7	.017	-.042	-.007	-.029	-.024	-.009	-.007	-.021	-.038	.002	-.042	.049
	42.3	-.024	-.041	.003	-.009	-.002	-.003	-.030	-.010	-.036	.017	-.040	.018
	78.7	-.023	-.040	-.010	-.008	-.019	-.030	-.030	-.008	-.039	.001	-.031	.021
28.50	5.7	.023	-.038	0	-.029	-.021	-.012	-.020	.002	-.039	.000	-.046	.054
	42.3	.018	-.037	0	-.020	-.013	-.009	-.018	.006	-.038	.019	-.028	.000
	78.7	-.005	-.037	-.006	-.008	-.012	-.012	-.018	0	-.037	.001	-.060	0
31.50	5.7	.017	-.043	0	-.032	-.017	-.018	-.017	.018	-.038	.036	-.028	.041
	42.3	.017	-.044	.001	-.033	-.014	-.014	-.026	.021	-.031	.001	-.022	.022
	78.7	0	-.042	0	-.019	0	-.010	-.009	.009	-.032	.020	-.071	.020
34.50	5.7	.036	-.025	.020	-.041	.013	-.000	-.021	.001	-.031	.021	-.069	.052
	42.3	.030	-.047	.015	-.041	.006	0	-.030	.011	-.028	.020	-.072	.028
	78.7	.027	-.048	.009	-.027	.000	.013	-.022	.019	-.039	.036	-.050	.024
38.00	5.7	.040	- - -	.008	- - -	-.010	- - -	-.060	- - -	-.025	- - -	-.119	- - -
	42.3	.040	-.055	.010	-.059	-.015	-.015	-.056	.011	-.107	.047	-.135	.081
	78.7	.037	-.165	.051	-.079	.006	-.004	-.029	.032	-.119	.076	-.164	.126
41.50	5.7	.024	-.117	.002	-.066	-.040	-.051	-.079	-.014	-.120	.030	-.142	.071
	42.3	.030	-.120	-.003	-.021	-.041	-.058	-.081	-.017	-.132	.032	-.178	.078
	78.7	.041	-.132	-.002	-.109	-.047	-.062	-.080	-.010	-.159	.042	-.208	.094
44.50	5.7	- - -	-.121	- - -	-.097	- - -	-.061	- - -	-.024	- - -	.020	- - -	.009
	42.3	.021	-.127	-.019	-.100	-.029	-.065	-.097	-.026	-.140	.021	-.186	.064
	78.7	.004	-.159	-.027	-.127	-.059	-.080	-.111	-.041	-.166	.010	-.210	.054
47.50	5.7	.006	-.112	-.021	-.057	-.041	-.049	-.075	-.037	-.135	0	-.149	.047
	42.3	.041	-.128	.000	-.099	-.017	-.073	-.095	-.046	-.160	-.008	-.202	.039
	78.7	-.009	-.138	-.039	-.113	-.022	-.090	-.120	-.057	-.154	-.016	-.186	.059
50.50	5.7	-.012	- - -	-.030	- - -	-.024	- - -	-.090	- - -	-.195	- - -	-.130	- - -
	42.3	-.010	-.105	-.032	-.094	-.026	-.072	-.090	-.049	-.123	-.021	-.131	.021
	78.7	-.024	-.125	-.047	-.121	-.036	-.090	-.108	-.052	-.142	-.029	-.151	.020
53.50	5.7	- - -	-.021	- - -	-.076	- - -	-.059	- - -	-.031	- - -	-.007	- - -	.018
	42.3	-.012	-.068	-.024	-.075	-.028	-.068	-.078	-.030	-.091	-.016	-.089	-.009
	78.7	-.015	-.079	-.020	-.067	-.032	-.058	-.061	-.031	-.082	-.011	-.094	-.003
56.50	5.7	-.006	-.054	-.020	-.048	-.030	-.037	-.050	-.021	-.070	-.005	-.064	.011
	42.3	.013	-.043	-.015	-.037	-.036	-.038	-.058	-.015	-.064	0	-.058	.013
	78.7	.009	-.039	0	-.030	-.015	-.025	-.024	-.020	-.059	.009	-.021	.009
59.50	5.7	.018	-.011	-.006	-.019	-.010	-.010	-.009	-.015	-.051	-.009	-.022	.013
	42.3	.019	-.011	.004	-.012	0	0	-.004	.008	-.018	.011	-.037	.029
	78.7	.014	-.010	0	-.006	0	0	-.004	.009	-.017	-.006	-.013	.009

Station (in.)	Percent fuselage radius	Angle of attack, degrees: 8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface	14 Upper surface	14 Lower surface	16 Upper surface	16 Lower surface
10	5.7	-0.018	0.130	-.036	0.161	-0.036	0.189	-0.040	0.232	-0.045	0.270
	42.3	-.019	.116	-.040	.138	-.052	.160	-.077	.175	-.069	.199
	78.7	-.049	.054	-.057	.054	-.078	.064	-.097	.062	-.127	.059
15	5.7	-.038	.100	-.045	.122	-.045	.149	-.041	.192	-.048	.229
	42.3	-.040	.071	-.057	.086	-.060	.100	-.077	.139	-.107	.158
	78.7	-.038	.032	-.071	.030	-.072	.030	-.080	.031	-.118	.026
20	5.7	-.047	- - -	-.050	- - -	-.054	- - -	-.080	- - -	-.050	- - -
	42.3	-.057	.042	-.070	.051	-.076	.073	-.085	.097	-.116	.126
	78.7	-.039	.006	-.072	.005	-.108	.010	-.112	-.009	-.121	-.010
25	5.7	-.082	.054	-.092	.060	-.092	.106	-.060	.149	-.075	.191
	42.3	-.062	.051	-.071	.043	-.084	.060	-.101	.090	-.122	.112
	78.7	-.073	-.005	-.100	-.007	-.120	-.005	-.113	-.018	-.128	-.015
28.50	5.7	-.060	.060	-.059	.082	-.071	.130	-.081	.142	-.097	.189
	42.3	-.056	.041	-.091	.041	-.100	.058	-.101	.090	-.147	.118
	78.7	-.073	-.002	-.104	-.009	-.115	-.009	-.130	-.014	-.146	-.027
31.50	5.7	-.073	.059	-.098	.091	-.098	.121	-.113	.164	-.140	.208
	42.3	-.079	.047	-.116	.052	-.122	.081	-.157	.105	-.198	.111
	78.7	-.094	.006	-.130	0	-.140	.009	-.156	.009	-.169	.008
34.50	5.7	-.096	.083	-.131	.125	-.141	.169	-.188	.201	-.209	.258
	42.3	-.111	.087	-.152	.100	-.187	.124	-.238	.154	-.279	.190
	78.7	-.138	.060	-.174	.061	-.218	.068	-.231	.078	-.258	.080
38.00	5.7	-.171	- - -	-.207	- - -	-.253	- - -	-.316	- - -	-.360	- - -
	42.3	-.201	.121	-.276	.156	-.321	.201	-.311	.246	-.378	.280
	78.7	-.248	.157	-.340	.189	-.380	.229	-.407	.245	-.371	.268
41.50	5.7	-.209	.190	-.248	.167	-.298	.198	-.349	.240	-.380	.296
	42.3	-.236	.181	-.312	.169	-.371	.199	-.460	.234	-.525	.289
	78.7	-.283	.134	-.368	.195	-.430	.251	-.512	.272	-.581	.332
44.50	5.7	- - -	.120	- - -	.150	- - -	.171	- - -	.216	- - -	.236
	42.3	-.238	.160	-.300	.150	-.364	.172	-.357	.214	-.337	.270
	78.7	-.273	.200	-.342	.154	-.398	.182	-.458	.220	-.521	.261
47.50	5.7	-.181	.082	-.219	.121	-.231	.150	-.264	.180	- - -	- - -
	42.3	-.129	.079	-.172	.111	-.209	.141	-.230	.170	- - -	- - -
	78.7	-.239	.072	-.300	.122	-.330	.149	-.378	.178	- - -	- - -
50.50	5.7	-.158	- - -	-.181	- - -	-.192	- - -	-.222	- - -	- - -	- - -
	42.3	-.181	.077	-.202	.079	-.224	.103	-.259	.125	- - -	- - -
	78.7	-.201	.046	-.237	.073	-.248	.100	-.320	.119	- - -	- - -
53.50	5.7	- - -	.032	- - -	.070	- - -	.080	- - -	.089	- - -	- - -
	42.3	-.141	.030	-.155	.064	-.191	.069	-.261	.079	- - -	- - -
	78.7	-.138	.021	-.151	.051	-.156	.052	-.214	.065	- - -	- - -
56.50	5.7	-.069	.041	-.089	.051	-.101	.061	-.195	.076	- - -	.059
	42.3	-.090	.039	-.100	.049	-.132	.055	-.159	.071	- - -	.054
	78.7	-.049	.032	-.061	.040	-.095	.045	-.127	.049	-.159	.042
59.50	5.7	-.041	.014	-.032	.049	-.050	.048	-.065	.047	-.078	.090
	42.3	-.046	.029	-.033	.049	-.054	.048	-.075	.033	-.107	.055
	78.7	-.036	.021	-.029	.050	-.052	.021	-.078	.021	-.109	.021

NACA

TABLE II.- CONTINUED

(c) M,0.70.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
10	8.7	---	---	0.053	0.003	0.150	0.089	0.080	0.041	0.011	0.076
	42.3	---	---	.044	.007	.039	.082	.084	.046	.021	.069
	70.7	---	---	.039	.008	.033	.021	.083	.040	.013	.054
15	8.7	---	---	.029	-.020	.089	.001	-.011	.013	-.017	.048
	42.3	---	---	.006	-.023	.008	-.002	-.009	0	-.016	.031
	70.7	---	---	.011	-.019	0	-.007	-.008	.001	-.009	.021
20	8.7	---	---	-.009	---	-.017	---	-.030	---	-.040	---
	42.3	---	---	-.011	-.042	-.080	-.080	-.030	-.080	-.048	0
	70.7	---	---	-.021	-.044	-.021	-.021	-.030	-.080	-.048	-.006
25	8.7	---	---	-.017	---	-.020	---	-.040	---	-.046	---
	42.3	---	---	-.027	-.048	-.029	-.029	-.040	-.009	-.048	-.008
	70.7	---	---	-.030	-.048	-.035	-.035	-.040	-.080	-.054	-.011
28.50	8.7	---	---	-.018	-.051	-.034	-.035	-.040	-.038	-.041	.009
	42.3	---	---	-.029	-.044	-.019	-.038	-.038	-.035	-.041	-.001
	70.7	---	---	-.039	-.048	-.038	-.039	-.029	-.040	-.046	-.011
31.50	8.7	---	---	-.018	-.048	-.028	-.035	-.010	-.029	-.050	.017
	42.3	---	---	-.020	-.050	-.021	-.030	-.021	-.030	-.044	.004
	70.7	---	---	-.024	-.050	-.030	-.050	-.011	-.025	-.050	.003
34.50	8.7	---	---	.029	-.027	.009	-.003	-.073	-.046	-.101	-.023
	42.3	---	---	.021	-.019	.001	.003	-.070	-.043	-.109	-.028
	70.7	---	---	.036	-.005	.019	.019	-.068	-.027	-.101	-.020
38.00	8.7	---	---	.014	---	-.020	---	-.101	---	-.130	---
	42.3	---	---	.040	-.053	-.016	-.013	-.107	-.040	-.165	-.009
	70.7	---	---	.159	.003	-.001	-.009	-.100	.019	-.159	.004
41.50	8.7	---	---	0	-.091	-.038	-.046	-.087	-.021	-.127	.029
	42.3	---	---	-.007	-.101	-.048	-.053	-.096	-.031	-.149	.021
	70.7	---	---	-.009	-.110	-.050	-.058	-.130	-.029	-.169	.043
44.50	8.7	---	---	---	-.110	---	-.067	---	-.040	---	.009
	42.3	---	---	-.034	-.117	-.069	-.074	-.111	-.046	-.195	.016
	70.7	---	---	-.043	-.139	-.083	-.091	-.128	-.059	-.180	.003
47.50	8.7	---	---	-.036	-.111	-.058	-.067	-.099	-.043	-.147	-.005
	42.3	---	---	.007	-.117	-.006	-.073	-.095	-.050	-.184	-.018
	70.7	---	---	-.098	-.189	-.079	-.085	-.130	-.067	-.179	-.021
50.50	8.7	---	---	-.031	---	-.068	---	-.099	---	-.138	---
	42.3	---	---	-.055	-.110	-.075	-.079	-.121	-.059	-.141	-.030
	70.7	---	---	-.069	-.123	-.081	-.081	-.118	-.070	-.158	-.030
53.50	8.7	---	---	---	-.084	---	-.056	---	-.045	---	-.019
	42.3	---	---	-.040	-.089	-.051	-.057	-.080	-.090	-.100	.004
	70.7	---	---	-.041	-.078	-.051	-.058	-.073	-.070	-.091	.018
56.50	8.7	---	-.069	-.012	-.030	-.019	-.020	-.040	-.010	-.070	-.018
	42.3	---	-.061	-.040	-.028	-.040	-.039	-.055	-.045	-.056	-.013
	70.7	-.009	-.047	-.020	-.047	-.080	-.068	-.040	-.085	-.044	-.009
59.00	8.7	-.010	-.080	-.030	-.041	-.030	-.041	-.048	-.030	-.059	-.013
	42.3	-.009	-.040	-.010	-.038	-.025	-.040	-.031	-.013	-.040	-.021
	70.7	-.011	-.039	-.080	-.031	-.023	-.080	-.033	-.018	-.041	-.029

Station (in.)	Percent fuselage radius	Angle of attack, degrees: 6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface	14 Upper surface	14 Lower surface
10	8.7	-.009	.101	-.049	.123	-.040	.156	-.042	.183	-.037	.214
	42.3	-.009	.089	-.088	.101	-.070	.119	-.077	.134	-.083	.159
	70.7	-.011	.060	-.031	.059	-.054	.068	-.088	.060	-.121	.048
15	8.7	-.030	.069	-.046	.084	-.037	.120	-.079	.111	-.087	.176
	42.3	-.050	.050	-.058	.050	-.069	.050	-.087	.091	-.099	.113
	70.7	-.034	.021	-.059	.022	-.081	.086	-.103	.023	-.126	.010
20	8.7	-.050	---	-.036	---	-.050	---	-.048	---	-.089	---
	42.3	-.054	.014	-.042	.043	-.061	.069	-.069	.088	-.139	.061
	70.7	-.068	-.008	-.056	0	-.081	.010	-.070	.009	-.150	-.039
25	8.7	-.037	---	-.033	---	-.039	---	-.049	---	-.088	---
	42.3	-.060	.008	-.069	.041	-.079	.069	-.071	.074	-.137	.050
	70.7	-.069	-.020	-.061	0	-.083	0	-.090	0	-.147	-.038
28.50	8.7	-.031	.030	-.060	.048	-.058	.039	-.077	.113	-.083	.144
	42.3	-.077	.017	-.075	.088	-.069	.049	-.087	.078	-.114	.090
	70.7	-.081	-.011	-.087	-.017	-.096	-.011	-.105	-.011	-.121	-.018
31.50	8.7	-.033	.040	-.071	.065	-.082	.100	-.089	.136	-.108	.169
	42.3	-.056	.005	-.069	.030	-.100	.064	-.112	.082	-.130	.108
	70.7	-.060	.006	-.066	0	-.128	.008	-.115	.011	-.130	.005
34.50	8.7	-.113	.019	-.066	.039	-.128	.130	-.135	.170	-.165	.201
	42.3	-.120	.009	-.100	.064	-.153	.101	-.169	.129	-.213	.168
	70.7	-.129	.006	-.111	.061	-.170	.108	-.198	.076	-.180	.080
38.00	8.7	-.186	---	-.171	---	-.250	---	-.288	---	-.330	---
	42.3	-.201	.043	-.207	.129	-.299	.197	-.257	.206	-.330	.243
	70.7	-.232	.081	-.252	.160	-.370	.197	-.331	.234	-.321	.237
41.50	8.7	-.178	.079	-.227	.121	-.289	.170	-.333	.205	-.371	.238
	42.3	-.200	.080	-.256	.181	-.350	.171	-.460	.200	-.402	.250
	70.7	-.238	.096	-.301	.130	-.409	.158	-.480	.234	-.380	.230
44.50	8.7	---	.057	---	.099	---	.148	---	.177	---	.229
	42.3	-.214	.054	-.278	.029	-.352	.147	-.416	.179	-.481	.227
	70.7	-.242	.058	-.300	.059	-.374	.172	-.439	.187	-.300	.280
47.50	8.7	-.177	.049	-.215	.071	-.259	.118	-.281	.141	-.320	.187
	42.3	-.188	.038	-.194	.083	-.210	.106	-.249	.137	-.309	.171
	70.7	-.216	.031	-.272	.069	-.341	.103	-.378	.140	-.319	.180
50.50	8.7	-.159	---	-.198	---	-.285	---	-.259	---	-.245	---
	42.3	-.168	.019	-.209	.042	-.260	.070	-.400	.185	-.325	.093
	70.7	-.181	.004	-.227	.030	-.277	.059	-.340	.113	-.300	.088
53.50	8.7	---	.017	---	.036	---	.037	---	.077	---	.101
	42.3	-.116	.010	-.147	.030	-.189	.050	-.286	.064	-.237	.090
	70.7	-.111	.003	-.140	.018	-.168	.040	-.189	.059	-.230	.078
56.50	8.7	-.080	.008	-.100	.020	-.119	.038	-.188	.043	-.139	.098
	42.3	-.078	.001	-.101	.016	-.129	.030	-.160	.059	-.201	.048
	70.7	-.056	.001	-.077	.009	-.088	.024	-.105	.029	-.125	.030
59.00	8.7	-.045	.009	-.060	.018	-.080	.021	-.084	.019	-.100	.038
	42.3	-.039	0	-.059	.008	-.088	.008	-.100	.015	-.125	.015
	70.7	-.043	-.010	-.051	-.009	-.051	-.009	-.090	-.008	-.108	-.018

NACA

TABLE II.- CONTINUED

(d) M,0.75.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
10	8.7	0.036	-0.008	0.059	0.021	0.065	0.085	---	---	0.013	0.071
	42.3	.067	.001	.048	.083	.047	.088	---	---	.019	.053
	70.7	.080	-.001	.038	.017	.033	.039	---	---	.018	.080
15	8.7	.048	-.009	.025	-.014	.018	-.004	---	---	-.002	.038
	42.3	.006	-.037	.020	-.019	.010	-.009	---	---	-.001	.019
	70.7	.013	-.008	.025	-.008	-.008	-.008	---	---	-.001	.013
20	8.7	.017	---	-.010	---	-.018	---	---	---	-.047	---
	42.3	.007	-.039	-.011	-.029	-.010	-.010	---	---	-.049	-.017
	70.7	-.002	-.059	-.012	-.039	-.001	-.013	---	---	-.051	-.001
25	8.7	.009	-.042	-.018	-.047	-.027	-.029	---	---	-.053	-.017
	42.3	0	-.060	-.020	-.039	-.021	-.021	---	---	-.051	-.020
	70.7	-.027	-.058	-.021	-.038	-.029	-.028	---	---	-.057	-.029
28.50	8.7	-.008	-.053	-.018	-.058	-.028	-.021	---	---	-.042	0
	42.3	-.013	-.052	-.021	-.042	-.018	-.021	---	---	-.042	-.007
	70.7	-.021	-.054	-.032	-.041	-.025	-.031	---	---	-.040	-.009
31.50	8.7	0	-.059	-.013	-.047	-.012	-.032	---	---	-.049	.005
	42.3	-.009	-.053	-.018	-.042	-.017	-.027	---	---	-.040	0
	70.7	-.018	-.051	-.018	-.035	-.036	-.035	---	---	-.040	-.004
34.50	8.7	.020	-.053	.021	-.029	0	-.021	---	---	-.040	.031
	42.3	.020	-.054	.026	-.025	.005	-.011	---	---	-.039	.033
	70.7	.015	-.041	.025	-.013	.015	0	---	---	-.032	.035
38.00	8.7	.030	---	.010	---	-.020	---	---	---	-.023	---
	42.3	.024	-.110	.011	-.037	-.040	-.021	---	---	-.029	.053
	70.7	.061	-.121	.037	-.037	0	-.021	---	---	-.021	.080
41.50	8.7	.030	-.138	-.016	-.095	-.040	-.088	---	---	-.122	.087
	42.3	.030	-.144	-.009	-.101	-.046	-.071	---	---	-.131	.089
	70.7	.039	-.167	-.008	-.130	-.050	-.061	---	---	-.156	.038
44.50	8.7	---	-.155	---	-.119	---	-.089	---	---	---	-.003
	42.3	.004	-.161	-.036	-.121	-.110	-.071	---	---	-.154	-.010
	70.7	-.001	-.155	-.041	-.141	-.069	-.069	---	---	-.181	-.019
47.50	8.7	-.009	-.151	-.038	-.118	-.076	-.091	---	---	-.140	-.007
	42.3	.006	-.167	.022	-.128	-.089	-.101	---	---	-.173	-.010
	70.7	-.029	-.189	-.050	-.140	-.100	-.119	---	---	-.188	-.018
50.50	8.7	-.039	---	-.049	---	-.079	---	---	---	-.189	---
	42.3	-.029	-.141	-.114	-.154	-.079	---	---	---	-.131	-.002
	70.7	-.046	-.160	-.129	-.149	---	---	---	---	-.149	-.037
53.50	8.7	---	-.102	---	-.087	---	---	---	---	---	-.016
	42.3	-.027	-.100	-.041	-.079	---	---	---	---	-.028	-.020
	70.7	-.029	-.099	-.039	-.076	---	---	---	---	-.024	-.019
56.50	8.7	-.022	-.051	-.032	-.070	---	-.039	---	-0.019	-.051	-.009
	42.3	-.020	-.043	-.039	-.060	---	-.030	---	-.011	-.039	-.002
	70.7	.009	-.039	-.020	-.031	-.009	-.032	-0.020	-.009	-.021	.009
59.50	8.7	-.019	-.039	-.020	-.031	-.018	-.030	-.020	-.025	-.025	.004
	42.3	-.011	-.037	-.012	-.029	-.021	-.029	-.019	-.007	-.021	.010
	70.7	-.011	-.033	-.016	-.027	-.007	-.027	-.019	-.002	-.019	0

Station (in.)	Percent fuselage radius	Angle of attack, degrees: 6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface
10	8.7	0	0.130	-0.001	0.131	-0.030	0.165	-0.029	0.200
	42.3	.003	.100	-.009	.111	-.033	.130	-.046	.161
	70.7	0	.109	-.002	.072	-.021	.072	-.071	.079
15	8.7	-.021	.079	-.029	.100	-.043	.129	-.045	.168
	42.3	-.021	.035	-.037	.069	-.037	.084	-.058	.114
	70.7	-.021	.032	-.034	.033	-.036	.035	-.053	.038
20	8.7	-.025	---	-.071	---	-.073	---	-.082	---
	42.3	-.039	.006	-.079	.010	-.080	.088	-.108	.049
	70.7	-.066	-.017	-.088	-.081	-.099	.002	-.130	-.031
25	8.7	-.059	.006	-.070	.021	-.070	.161	-.088	.079
	42.3	-.057	0	-.073	.003	-.093	.037	-.101	.039
	70.7	-.070	-.029	-.088	-.029	-.104	-.019	-.119	-.037
28.50	8.7	-.049	.006	-.060	.059	-.048	.088	-.060	.119
	42.3	-.053	.018	-.050	.035	-.060	.059	-.073	.079
	70.7	-.060	-.010	-.060	0	-.076	0	-.089	0
31.50	8.7	-.035	.038	-.060	.066	-.069	.107	-.061	.181
	42.3	-.053	.024	-.061	.049	-.076	.069	-.090	.090
	70.7	-.059	.010	-.072	.010	-.089	.039	-.102	.020
34.50	8.7	-.061	.081	-.068	.110	-.091	.140	-.118	.175
	42.3	-.059	.082	-.080	.084	-.117	.119	-.154	.136
	70.7	-.059	.085	-.090	.072	-.137	.083	-.160	.080
38.00	8.7	-.126	---	-.169	---	-.230	---	-.261	---
	42.3	-.150	.099	-.195	.137	-.278	.181	-.323	.214
	70.7	-.171	.132	-.244	.172	-.343	.218	-.439	.246
41.50	8.7	-.136	.090	-.237	.118	-.307	.163	-.367	.219
	42.3	-.195	.098	-.287	.121	-.360	.170	-.436	.211
	70.7	-.233	.102	-.309	.111	-.410	.200	-.500	.240
44.50	8.7	---	.063	---	.100	---	.120	---	.106
	42.3	-.235	.063	-.281	.100	-.369	.151	-.471	.190
	70.7	-.248	.060	-.312	.096	-.400	.156	-.454	.200
47.50	8.7	-.192	.040	-.238	.071	-.268	.121	-.320	.148
	42.3	-.129	.057	-.128	.059	-.211	.116	-.261	.130
	70.7	-.234	.051	-.256	.060	-.350	.118	-.309	.140
50.50	8.7	-.169	---	-.201	---	-.239	---	-.236	---
	42.3	-.161	.018	-.219	.037	-.259	.059	-.351	.091
	70.7	-.194	.001	-.240	.026	-.271	.069	-.339	.081
53.50	8.7	---	.011	---	.039	---	.062	---	.080
	42.3	-.113	.009	-.141	.027	-.171	.081	-.241	.079
	70.7	-.110	.001	-.137	.21	-.150	.050	-.200	.059
56.50	8.7	-.079	.009	-.092	.030	-.102	.064	-.122	.044
	42.3	-.071	.010	-.090	.020	-.113	.050	-.152	.039
	70.7	-.070	.009	-.096	.020	-.079	.020	-.135	.021
59.50	8.7	-.039	.012	-.049	.023	-.051	.029	-.071	.029
	42.3	-.039	.010	-.049	.018	-.071	.017	-.093	.025
	70.7	-.029	0	-.039	-.001	-.051	0	-.061	.007

NACA

TABLE II.– CONTINUED

(e) M,0.80.

Station (in.)	Percent fuselage radius	−4 Upper surface	−4 Lower surface	−2 Upper surface	−2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface
10	8.7	0.096	0.039	0.055	0.018	0.049	0.038	0.032	0.068	0.087	0.095	0.010	0.117	−0.016	0.138	−0.089	0.161
	42.3	.097	.038	.049	.019	.042	.039	.031	.064	.031	.081	.011	.101	−.014	.117	−.039	.133
	70.7	.081	.057	.045	.019	.045	.037	.039	.054	.031	.071	.008	.078	−.029	.066	−.054	.070
15	8.7	.071	.004	.030	−.011	.018	.011	.005	.031	−.008	.089	−.011	.088	−.031	.100	−.048	.131
	42.3	.059	.007	.019	−.016	.019	.008	.007	.029	0	.041	−.020	.062	−.036	.088	−.060	.086
	70.7	.048	.005	.015	−.010	.017	.009	.010	.023	.001	.033	−.011	.041	−.040	.070	−.079	.039
20	8.7	.036	- - -	.001	- - -	−.009	- - -	−.030	- - -	−.020	- - -	−.026	- - -	−.044	- - -	.059	- - -
	42.3	.029	−.020	−.001	−.023	−.011	−.011	−.019	−.009	−.027	.027	−.039	.030	−.054	.040	−.062	.060
	70.7	.011	−.021	−.007	−.022	−.007	−.012	−.020	−.018	−.029	0	−.043	.005	−.061	0	−.065	0
25	8.7	.020	−.032	−.005	−.029	−.011	−.011	−.031	−.027	−.032	.014	−.033	.034	−.040	.051	−.041	.087
	42.3	.013	−.022	−.010	−.030	−.020	−.021	−.033	−.012	−.034	.008	−.041	.022	−.050	.030	−.061	.050
	70.7	.001	−.021	−.017	−.020	−.020	−.030	−.035	−.018	−.035	−.001	−.049	−.001	−.066	−.008	−.079	−.008
28.50	8.7	.003	−.042	−.008	−.030	−.020	−.020	−.028	−.016	−.035	.009	−.039	.030	−.036	.063	−.059	.090
	42.3	−.001	−.034	−.012	−.029	−.011	−.011	−.026	−.009	−.033	.016	−.038	.020	−.043	.040	−.076	.060
	70.7	−.006	−.036	−.017	−.031	−.025	−.017	−.025	−.017	−.031	.006	−.050	−.008	−.057	−.001	−.072	0
31.50	8.7	.018	−.037	.001	−.029	−.011	−.013	−.029	.181	−.034	.021	−.046	.040	−.046	.070	−.051	.129
	42.3	.007	−.037	−.004	−.027	−.010	−.016	−.021	.081	−.032	.013	−.050	.030	−.052	.053	−.067	.071
	70.7	−.009	−.037	−.011	−.025	−.013	−.019	−.021	.037	−.036	.003	−.049	.011	−.068	.018	−.080	.018
34.50	8.7	.048	−.038	.029	−.027	−.031	−.037	−.013	.021	−.028	.044	−.049	.072	−.069	.108	−.087	.140
	42.3	.049	−.030	.019	−.019	−.030	−.036	−.005	.022	−.025	.032	−.049	.047	−.098	.091	−.101	.120
	70.7	.044	−.012	.021	−.006	−.020	−.025	.002	.034	−.020	.030	−.046	.060	−.069	.068	−.110	.079
38.00	8.7	.061	- - -	.017	- - -	−.049	- - -	−.050	- - -	−.080	- - -	−.134	- - -	−.176	- - -	−.240	- - -
	42.3	.054	−.081	.017	−.096	−.055	−.053	−.056	.029	−.090	.056	−.147	.108	−.209	.145	−.281	.179
	70.7	.050	−.099	.049	−.059	−.029	−.039	−.041	.053	−.090	.090	−.161	.139	−.254	.154	−.350	.280
41.50	8.7	.050	−.121	.010	−.082	−.029	−.040	−.072	.004	−.107	.028	−.179	.094	−.275	.148	−.329	.180
	42.3	.051	−.131	.010	−.091	−.030	−.046	−.080	.004	−.120	.033	−.193	.099	−.285	.150	−.380	.190
	70.7	.063	−.150	.010	−.101	−.040	−.051	−.100	.009	−.145	.070	−.210	.111	−.329	.170	−.425	.211
44.50	8.7	- - -	−.140	- - -	−.110	- - -	−.050	- - -	−.019	- - -	.038	- - -	.098	- - -	.129	- - -	.161
	42.3	.026	−.150	−.020	−.117	−.059	−.067	−.116	−.020	−.149	.037	−.226	.077	−.316	.127	−.423	.169
	70.7	.020	−.187	−.039	−.139	−.076	−.087	−.129	−.031	−.172	.088	−.253	.071	−.344	.129	−.460	.178
47.50	8.7	.009	−.152	−.037	−.121	−.071	−.079	−.118	−.037	−.140	.027	−.196	.090	−.267	.089	−.318	.134
	42.3	.009	−.151	.011	−.131	−.018	−.090	−.090	−.040	−.069	.028	−.136	.047	−.189	.065	−.358	.127
	70.7	−.003	−.179	−.058	−.149	.096	−.100	−.149	−.058	−.171	.023	−.240	.042	−.387	.080	−.459	.121
50.50	8.7	−.010	- - -	−.049	- - -	−.078	- - -	−.110	- - -	−.126	- - -	−.189	- - -	−.217	- - -	−.242	- - -
	42.3	−.011	- - -	−.053	−.120	−.081	−.085	−.134	−.075	−.130	−.021	−.180	.024	−.238	.035	−.280	.065
	70.7	−.020	- - -	−.067	−.135	−.045	−.049	−.131	−.061	−.155	−.019	−.200	.021	−.259	.048	−.290	.078
53.50	8.7	- - -	- - -	- - -	−.089	- - -	−.060	- - -	−.037	- - -	−.021	- - -	.020	- - -	.050	- - -	.071
	42.3	- - -	- - -	−.040	−.081	−.057	−.067	−.079	−.038	−.087	−.009	−.116	.012	−.141	.040	−.180	.041
	70.7	- - -	- - -	−.036	−.090	−.051	−.058	−.071	−.033	−.080	−.008	−.108	.019	−.139	.038	−.159	.050
56.50	8.7	- - -	−.050	−.036	−.050	−.037	−.050	−.057	−.018	−.061	.021	−.069	.027	−.081	.039	−.108	.048
	42.3	- - -	−.049	−.029	−.040	−.031	−.040	−.048	−.010	−.060	.027	−.060	.031	−.081	.038	−.139	.044
	70.7	.010	−.029	−.010	−.030	−.019	−.021	−.025	−.005	−.030	.009	−.039	.029	−.049	.031	−.060	.036
59.50	8.7	−.002	−.021	−.019	−.016	−.010	−.008	−.031	−.002	−.020	.027	−.031	.035	−.054	.021	−.079	.023
	42.3	.002	−.026	−.011	−.031	−.013	−.019	−.027	−.009	−.020	.010	−.027	.020	−.051	.019	−.061	.014
	70.7	.003	−.017	−.009	−.021	−.017	−.015	−.019	−.007	−.008	.018	−.021	.019	−.039	−.001	−.066	.008

(f) M,0.82.

Station (in.)	Percent fuselage radius	−4 Upper surface	−4 Lower surface	−2 Upper surface	−2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	9 Upper surface	9 Lower surface
10	8.7	0.072	0.001	0.066	0.014	0.032	0.032	0.030	0.055	0.085	0.091	0	0.138	−0.020	0.128	−0.020	0.159
	42.3	.070	.007	.058	.019	.036	.032	.030	.055	.083	.085	.003	.098	−.017	.108	−.027	.138
	70.7	.050	.001	.046	.020	.035	.035	.030	.050	.083	.065	−.002	.075	−.025	.065	−.040	.084
15	8.7	.040	−.026	.029	−.017	.002	.002	.002	.022	−.008	.090	−.024	.075	−.040	.098	−.040	.115
	42.3	.027	−.039	.020	−.028	.003	−.006	0	.012	−.007	.044	−.024	.050	−.045	.062	−.048	.087
	70.7	.017	−.025	.014	−.019	0	−.008	.005	.013	−.009	.030	−.027	.030	−.052	.035	−.060	.035
20	8.7	.017	- - -	.005	- - -	−.012	- - -	−.015	- - -	−.025	- - -	−.030	- - -	−.038	- - -	−.045	- - -
	42.3	.010	−.026	.002	−.026	−.013	−.018	−.012	.001	−.025	−.015	−.033	.035	−.040	.045	−.052	.098
	70.7	−.002	−.033	−.026	−.026	−.015	−.022	−.015	.009	−.030	−.020	−.036	.012	−.060	0	−.070	0
25	8.7	.015	−.031	.002	−.032	−.019	−.020	−.020	−.003	−.027	.022	−.029	.043	−.038	.058	−.032	.092
	42.3	.007	−.028	−.004	−.028	−.020	−.020	−.026	−.003	−.032	.009	−.035	.025	−.049	.032	−.049	.045
	70.7	−.009	−.031	−.008	−.030	−.020	−.020	−.022	−.005	−.032	−.021	−.045	.002	−.059	0	−.068	−.003
28.50	8.7	.013	−.026	.003	−.025	−.025	−.020	−.015	0	.015	.004	−.030	.040	−.035	.060	−.020	.070
	42.3	.005	−.030	.005	−.025	−.025	−.020	−.015	.008	.018	.009	−.030	.030	−.038	.047	−.022	.050
	70.7	−.007	−.033	−.005	−.035	−.025	−.020	−.012	.008	.018	.008	−.040	.005	−.049	.005	−.038	−.003
31.50	8.7	.018	−.032	.010	−.018	−.020	−.018	−.015	.012	−.018	.038	−.032	.078	−.040	.080	−.050	.089
	42.3	.010	−.026	.005	−.018	−.020	−.018	−.012	.008	−.018	.038	−.032	.042	−.040	.055	−.058	.060
	70.7	−.005	−.025	−.005	−.015	−.015	−.012	−.012	.018	−.018	.028	−.040	.022	−.052	.016	−.070	.016
34.50	8.7	.032	−.040	.022	−.023	−.002	−.006	0	−.028	−.018	.058	−.050	.073	−.064	.105	−.063	.135
	42.3	.036	−.028	.022	−.018	0	0	.002	−.035	−.018	.052	−.052	.068	−.070	.080	−.080	.110
	70.7	.033	−.018	.022	0	0	.015	.010	−.040	−.028	.057	−.065	.065	−.079	.068	−.089	.080
38.00	8.7	.048	- - -	.017	- - -	−.018	- - -	−.035	- - -	−.075	- - -	−.130	- - -	−.178	- - -	−.220	- - -
	42.3	.050	−.091	.018	−.053	−.017	−.023	−.039	.035	−.086	.074	−.150	.105	−.209	.140	−.242	.165
	70.7	.078	−.102	.052	−.048	.004	−.005	−.089	.053	−.095	.108	−.178	.143	−.253	.182	−.287	.209
41.50	8.7	.029	−.148	−.002	−.100	−.040	−.058	−.072	−.001	−.120	.048	−.190	.098	−.266	.133	−.309	.163
	42.3	.032	−.152	−.009	−.110	−.045	−.057	−.080	−.002	−.133	.040	−.208	.100	−.295	.139	−.340	.162
	70.7	.046	−.172	.002	−.121	−.052	−.060	−.090	−.001	−.160	.070	−.248	.118	−.336	.158	−.385	.188
44.50	8.7	- - -	−.172	- - -	−.123	- - -	−.072	- - -	−.082	- - -	.033	- - -	.078	- - -	.115	- - -	.140
	42.3	0	−.176	−.030	−.130	−.072	−.072	−.113	−.085	−.165	.035	−.240	.076	−.335	.115	−.403	.140
	70.7	−.004	−.210	−.035	−.148	−.087	−.097	−.128	−.040	−.189	.030	−.270	.072	−.370	.112	−.440	.140
47.50	8.7	−.020	−.179	−.049	−.138	−.090	−.097	−.112	−.040	−.158	.018	−.213	.099	−.286	.088	−.348	.109
	42.3	.005	−.187	.002	−.148	−.092	−.102	−.049	−.046	−.086	.009	−.140	.090	−.202	.093	−.388	.107
	70.7	−.075	−.219	−.069	−.160	−.112	−.119	−.138	−.055	−.190	.002	−.260	.045	−.345	.076	−.436	.094
50.50	8.7	−.036	- - -	−.060	- - -	−.096	- - -	−.110	- - -	−.142	- - -	−.182	- - -	−.229	- - -	−.272	- - -
	42.3	−.042	−.170	−.060	−.135	−.100	−.105	−.118	−.095	−.145	−.002	−.192	.025	−.247	.030	−.280	.065
	70.7	−.092	−.185	−.080	−.157	−.118	−.119	−.130	−.078	−.130	−.005	−.215	.015	−.265	.040	−.305	.055
53.50	8.7	- - -	−.105	- - -	−.090	- - -	−.072	- - -	−.038	- - -	−.009	- - -	.086	- - -	.040	- - -	.073
	42.3	−.025	−.105	−.041	−.090	−.065	−.068	−.072	−.037	−.097	−.013	−.117	.019	−.158	.036	−.169	.049
	70.7	−.032	−.102	−.041	−.085	−.066	−.068	−.070	−.039	−.093	−.029	−.111	.019	−.144	.029	−.192	.041
56.50	8.7	−.022	−.068	−.038	−.045	−.050	−.058	−.080	−.019	−.062	−.003	−.078	.017	−.068	.040	−.100	.049
	42.3	−.016	−.056	−.027	−.041	−.042	−.028	−.042	−.016	−.053	.005	−.060	.019	−.059	.048	−.103	.050
	70.7	−.022	−.043	−.002	−.032	−.012	−.019	−.020	−.007	−.038	.005	−.043	.019	−.041	.035	−.095	.040
59.50	8.7	−.008	−.038	−.020	−.036	−.002	−.022	−.017	.002	−.027	.012	−.034	.022	−.050	.018	−.064	.023
	42.3	−.004	−.034	−.019	−.030	−.019	−.016	−.009	−.002	−.015	.012	−.038	.019	−.049	.012	−.068	.019
	70.7	−.005	−.029	−.012	−.028	−.013	−.012	−.007	0	−.009	.010	−.023	.012	−.040	.005	−.049	.009

TABLE II.– CONTINUED

(g) M,0.84.

Station (in.)	Percent fuselage radius	−4 Upper surface	−4 Lower surface	−2 Upper surface	−2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	9 Upper surface	9 Lower surface
10	8.7	0.090	0.018	0.070	0.032	0.060	0.061	0.043	0.078	0.052	0.089	0.012	0.119	−0.001	0.147	−0.018	0.158
	42.3	.082	.082	.049	.039	.066	.067	.049	.073	.057	.093	.018	.100	0	.121	−.080	.128
	70.7	.072	.080	.060	.037	.065	.065	.049	.074	.039	.072	.011	.073	−.017	.094	−.092	.088
15	8.7	.058	−.011	.049	.005	.032	.032	.018	.041	.002	.060	−.013	.079	−.085	.109	−.059	.115
	42.3	.050	−.013	.039	0	.028	.030	.018	.031	.001	.050	−.028	.060	−.031	.078	−.045	.082
	70.7	.030	−.007	.039	.005	.030	.035	.019	.029	.002	.051	−.011	.040	−.040	.031	−.059	.040
20	8.7	.029	---	.009	---	.005	---	−.003	---	−.086	---	−.031	---	−.048	---	−.050	---
	42.3	.019	−.085	.005	−.086	.007	.007	−.003	.015	−.083	.014	−.029	.008	−.049	.039	−.059	.045
	70.7	0	−.024	−.003	−.027	.004	−.005	−.007	.007	−.088	0	−.040	.008	−.062	.002	−.077	−.007
25	8.7	.080	−.038	0	−.024	0	.001	−.016	.030	−.038	.009	−.038	.052	−.036	.047	−.041	.059
	42.3	.009	−.021	−.005	−.021	−.001	−.006	−.018	.002	−.086	0	−.039	.018	−.051	.029	−.059	.034
	70.7	−.003	−.029	−.001	−.029	−.009	−.001	−.015	−.002	−.036	−.004	−.041	−.009	−.061	−.011	−.074	−.113
28.50	8.7	.018	−.031	.005	−.008	.010	0	−.008	−.008	−.008	.027	−.038	.039	−.039	.059	−.038	.064
	42.3	0	−.029	0	−.020	.001	.003	−.019	−.008	−.008	.019	−.053	.028	−.047	.053	−.048	.041
	70.7	−.005	−.036	0	−.017	−.007	0	−.018	−.004	−.021	0	−.041	.005	−.053	−.005	−.066	0
31.50	8.7	.018	−.039	.009	−.017	.009	.009	−.018	0	−.018	.038	−.051	.046	−.056	.071	−.030	.073
	42.3	.009	−.028	.008	−.029	.008	.005	−.017	−.001	−.018	.024	−.050	.032	−.041	.049	−.043	.053
	70.7	−.002	−.027	−.010	−.027	0	.027	−.018	.001	−.019	.017	−.039	.017	−.058	.018	−.058	0
34.50	8.7	.064	−.011	.042	−.006	.006	.009	.001	.029	−.011	.060	−.068	.079	−.046	.120	−.085	.133
	42.3	.060	−.008	.040	.009	.068	.030	.005	.032	−.016	.057	−.035	.069	−.051	.108	−.068	.114
	70.7	.053	0	.044	.018	.059	.035	.010	.042	−.002	.062	−.058	.066	−.050	.089	−.065	.088
38.00	8.7	.070	---	.039	---	−.001	---	−.058	---	−.070	---	−.111	---	−.134	---	−.189	---
	42.3	.071	−.070	.040	−.038	.001	−.007	−.039	.029	−.061	.079	−.131	.130	−.154	.151	−.224	.170
	70.7	.102	−.066	.069	−.041	.019	.018	−.027	.035	−.089	.111	−.154	.149	−.227	.197	−.261	.211
41.50	8.7	.022	−.131	.027	−.084	−.019	−.080	−.061	.004	−.124	.051	−.128	.094	−.258	.153	−.279	.188
	42.3	.053	−.140	.018	−.095	−.029	−.081	−.072	.002	−.139	.050	−.199	.094	−.287	.156	−.319	.178
	70.7	.061	−.160	.029	−.109	−.089	−.089	−.081	.007	−.143	.060	−.235	.110	−.309	.173	−.359	.201
44.50	8.7	---	−.162	---	−.110	---	−.046	---	−.080	---	.036	---	.065	---	.127	---	.158
	42.3	.018	−.170	−.019	−.180	−.080	−.054	−.209	−.082	−.177	.084	−.243	.067	−.320	.129	−.380	.154
	70.7	.001	−.199	−.028	−.143	−.049	−.051	−.127	−.038	−.201	.018	−.272	.061	−.356	.123	−.314	.150
47.50	8.7	.007	−.166	−.050	−.127	−.061	−.061	−.098	−.087	−.152	.089	−.202	.050	−.300	.100	−.321	.119
	42.3	.051	−.179	.028	−.131	−.064	−.072	−.035	−.092	−.076	.018	−.141	.042	−.211	.100	−.278	.130
	70.7	−.012	−.200	−.050	−.132	−.087	−.089	−.130	−.045	−.188	.008	−.285	.041	−.258	.094	−.442	.109
50.50	8.7	−.010	---	−.050	---	−.090	---	−.108	---	−.138	---	−.190	---	−.288	---	−.370	---
	42.3	−.017	−.159	−.049	−.126	−.071	−.073	−.104	−.047	−.144	−.004	−.280	.027	−.340	.062	−.302	.080
	70.7	−.029	−.170	−.060	−.140	−.090	−.090	−.125	−.060	−.161	−.017	−.288	.002	−.388	.058	−.329	.069
53.50	8.7	---	−.090	---	−.070	---	−.014	---	−.087	---	.010	---	.087	---	.060	---	.069
	42.3	−.001	−.066	−.084	−.070	−.047	−.046	−.062	−.028	−.061	.009	−.116	.080	−.130	.051	−.138	.078
	70.7	−.001	−.083	−.088	−.069	−.045	−.048	−.049	−.027	−.062	.001	−.101	.019	−.104	.047	−.140	.070
56.50	8.7	0	−.061	−.011	−.041	−.089	−.089	−.098	−.018	−.041	0	−.060	.025	−.070	.048	−.077	.046
	42.3	.008	−.051	−.038	−.036	−.021	−.086	−.089	−.010	−.033	.009	−.051	.021	−.068	.040	−.083	.042
	70.7	.001	−.040	.001	−.021	−.006	−.011	−.081	.010	−.024	.009	−.040	.018	−.041	.034	−.058	.036
59.50	8.7	0	−.030	−.009	−.081	−.011	−.010	−.085	−.002	−.087	.009	−.040	.010	−.048	.022	−.066	.029
	42.3	0	−.028	−.009	−.021	−.009	−.018	−.017	.008	−.025	.005	−.039	.005	−.047	.014	−.069	.009
	70.7	−.002	−.021	−.009	−.022	−.008	−.009	−.013	−.011	−.017	0	−.030	.008	−.039	.002	−.051	−.008

(h) M,0.86.

Station (in.)	Percent fuselage radius	−4 Upper surface	−4 Lower surface	−2 Upper surface	−2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface
10	8.7	0.102	0.033	0.069	0.078	0.069	0.059	0.059	0.071	0.087	0.090	0	0.104	0.020	0.153
	42.3	.069	.040	.074	.060	.059	.061	.048	.078	.030	.090	.007	.081	.001	.138
	70.7	.062	.033	.068	.051	.061	.051	.048	.062	.030	.078	.004	.089	0	.089
15	8.7	.060	.003	.051	.011	.030	.023	.018	.038	−.004	.053	−.029	.048	−.013	.119
	42.3	.028	−.001	.045	.008	.030	.019	.012	.029	−.002	.040	−.029	.043	−.029	.082
	70.7	.040	.001	.039	.011	.038	.020	.013	.023	0	.037	−.030	.034	−.030	.080
20	8.7	.029	---	.020	---	.008	---	−.006	---	−.012	---	−.030	---	−.030	---
	42.3	.020	−.017	.007	−.017	.007	.007	−.003	.009	−.011	.027	−.030	.031	−.035	.037
	70.7	.005	−.020	.002	−.020	.001	.001	−.004	−.001	−.019	.012	−.036	.002	−.048	.011
25	8.7	.024	−.021	.010	−.021	−.001	0	−.018	−.001	−.017	.022	−.034	.030	−.028	.042
	42.3	.013	−.019	.005	−.019	−.002	−.001	−.016	0	−.023	.013	−.038	.019	−.038	.049
	70.7	0	−.019	−.002	−.022	−.006	−.006	−.017	.003	−.025	−.007	−.042	−.001	−.050	.007
28.50	8.7	.022	−.021	−.001	−.018	−.006	−.008	−.019	0	−.019	.003	−.039	.029	−.028	.069
	42.3	.017	−.010	0	−.022	−.007	−.007	−.020	0	−.011	.019	−.041	.020	−.039	.050
	70.7	.004	−.028	−.009	−.026	−.009	−.009	−.020	−.009	−.015	.008	−.041	−.007	−.045	.009
31.50	8.7	.027	−.011	.009	−.021	−.003	−.006	−.026	.010	−.018	.039	−.039	.034	−.026	.078
	42.3	.011	−.007	.003	−.019	−.007	−.007	−.030	.009	−.040	.026	−.041	.021	−.031	.029
	70.7	.002	−.018	−.002	−.018	−.009	−.010	−.030	.009	−.021	.022	−.040	.011	−.040	.024
34.50	8.7	.040	−.001	.048	0	.031	.023	.018	.040	−.004	.049	−.039	.049	−.038	.128
	42.3	.049	.008	.050	.011	.036	.034	.022	.043	−.002	.040	−.030	.063	−.041	.107
	70.7	.043	.021	.052	.029	.044	.040	.029	.050	.003	.048	−.030	.045	−.042	.087
38.00	8.7	.060	---	.054	---	.012	---	−.027	---	−.060	---	−.117	---	−.150	---
	42.3	.082	−.042	.053	−.028	.012	.012	−.030	.047	−.030	.088	−.132	.112	−.178	.160
	70.7	.113	−.050	.064	−.022	.040	.034	−.023	.068	−.073	.121	−.152	.149	−.221	.203
41.50	8.7	.060	−.103	.033	−.048	−.017	−.083	−.069	.006	−.114	.060	−.180	.099	−.219	.171
	42.3	.060	−.105	.032	−.080	−.019	−.030	−.076	0	−.127	.059	−.198	.100	−.250	.178
	70.7	.066	−.126	.031	−.091	−.029	−.036	−.092	.007	−.151	.061	−.230	.117	−.266	.197
44.50	8.7	---	−.138	---	−.107	---	−.085	---	−.082	---	.032	---	.071	---	.150
	42.3	.028	−.148	−.005	−.111	−.058	−.060	−.111	−.088	−.175	.031	−.348	.072	−.432	.154
	70.7	.029	−.179	−.011	−.136	−.069	−.079	−.130	−.038	−.196	.029	−.379	.070	−.441	.149
47.50	8.7	0	−.166	−.029	−.131	−.071	−.082	−.120	−.040	−.179	.021	−.265	.043	−.330	−.109
	42.3	.049	−.182	.023	−.142	−.011	−.098	−.050	−.058	−.200	.018	−.176	.034	−.331	−.100
	70.7	−.013	−.199	−.049	−.158	−.098	−.107	−.151	−.057	−.209	−.002	−.310	.027	−.387	−.098
50.50	8.7	−.016	---	−.041	---	−.080	---	−.120	---	−.158	---	−.226	---	−.320	---
	42.3	−.013	−.119	−.046	−.126	−.080	−.090	−.127	−.039	−.161	−.010	−.259	.009	−.347	.068
	70.7	−.031	−.169	−.058	−.142	−.099	−.101	−.140	−.069	−.187	−.027	−.260	0	−.368	.054
53.50	8.7	---	−.085	---	−.072	---	−.050	---	−.037	---	−.003	---	.012	---	.060
	42.3	−.008	−.084	−.020	−.071	−.048	−.090	−.078	−.040	−.077	−.001	−.126	.008	−.130	.053
	70.7	−.010	−.080	−.021	−.070	−.040	−.050	−.073	−.040	−.088	−.009	−.119	.009	−.120	.048
56.50	8.7	−.002	−.050	−.022	−.044	−.044	−.086	−.046	−.025	−.049	.008	−.072	.005	−.040	.049
	42.3	0	−.040	−.009	−.039	−.039	−.080	−.039	−.008	−.043	.011	−.049	.010	−.060	.042
	70.7	−.030	−.030	−.001	−.039	−.012	−.029	−.022	−.011	−.080	.012	−.046	.006	−.039	.038
59.50	8.7	−.009	−.030	−.007	−.018	−.018	−.080	−.022	−.010	−.021	.030	−.053	−.002	−.037	.031
	42.3	−.002	−.029	−.002	−.017	−.015	−.016	−.021	−.010	−.027	.008	−.049	−.009	−.039	.022
	70.7	−.002	−.023	−.001	−.025	−.013	−.015	−.020	−.011	−.019	0	−.040	−.011	−.086	.011

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TABLE II.– CONTINUED

(i) M,0.88.

Station (in.)	Percent fuselage radius	Angle of attack, degrees													
		-4		-2		0		2		4		6		8	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7 42.3 70.7	0.108 .092 .092	0.033 .041 .033	0.087 .075 .092	0.042 .048 .044	0.068 .068 .062	0.068 .062 .062	0.058 .057 .058	0.060 .078 .079	0.058 .040 .043	0.105 .096 .078	0.080 .083 .080	0.128 .117 .085	0.015 .013 .007	0.168 .148 .098
15	8.7 42.3 70.7	.068 .060 .045	.006 .002 .006	.042 .042 .038	.006 0 .010	.030 .030 .026	.030 .020 .028	.020 .020 .026	.044 .038 .043	.004 .006 .008	.069 .055 .043	-.010 -.013 -.010	.092 .070 .050	-.013 -.020 -.029	.118 .097 .060
20	8.7 42.3 70.7	.025 .020 .010	--- -.022 -.022	.025 .009 .002	--- .010 .015	.015 .015 .009	--- .015 .006	.005 0 0	--- .018 .012	-.008 -.010 -.012	--- .030 .012	-.028 -.028 -.030	--- .043 .015	-.025 -.038 -.048	--- .035 .015
25	8.7 42.3 70.7	.024 .010 0	-.020 -.020 -.022	.009 .002 0	-.012 -.015 -.020	.008 .005 -.012	.009 .005 0	-.003 -.014 -.012	.005 .004 -.003	-.018 -.019 -.020	.033 .018 .010	-.018 -.030 -.032	.045 .035 .012	-.022 -.035 -.043	.048 .040 .018
28.50	8.7 42.3 70.7	.016 .014 .005	-.022 -.018 -.022	.015 .015 .005	-.010 -.016 -.015	.015 .015 -.005	0 .002 0	-.010 -.008 -.008	.008 .015 0	-.025 -.028 -.020	.022 .015 .002	-.020 -.027 -.033	.040 .030 .005	-.028 -.027 -.040	.049 .050 .010
31.50	8.7 42.3 70.7	.022 .015 .005	-.025 -.015 -.015	.022 -.009 .002	-.010 -.015 0	.010 0 .005	.015 .002 .009	-.006 -.008 -.002	.018 .013 .015	-.018 -.015 -.015	.032 .025 .015	-.020 -.028 -.035	.045 .035 .016	-.026 -.028 -.040	.062 .055 .028
34.50	8.7 42.3 70.7	.078 .072 .072	.005 .012 .029	.060 .060 .060	.016 .032 .048	.038 .038 .060	.035 .042 .058	.028 .035 .042	.049 .055 .063	.002 .002 .008	.060 .068 .045	-.006 -.015 -.014	.095 .090 .074	-.013 -.015 -.035	.135 .122 .102
38.00	8.7 42.3 70.7	.090 .095 .128	--- -.035 -.050	.060 .063 .098	--- -.006 0	.022 .032 .050	--- .023 .045	-.010 -.015 -.009	--- .055 .080	-.065 -.075 -.080	--- .088 .124	-.100 -.116 -.145	--- .138 .164	-.122 -.158 -.193	--- .182 .280
41.50	8.7 42.3 70.7	.058 .065 .070	-.110 -.120 -.138	.032 .025 .026	-.075 -.060 -.095	-.020 -.020 -.028	-.020 -.020 -.032	-.068 -.073 -.087	.010 .005 .010	-.130 -.135 -.160	.060 .053 .070	-.175 -.190 -.225	.125 .115 .132	-.222 -.250 -.265	.143 .160 .184
44.50	8.7 42.3 70.7	--- .023 .020	-.160 -.165 -.195	--- -.013 -.022	-.112 -.122 -.143	--- -.060 -.073	-.052 -.066 -.078	--- -.112 -.130	-.018 -.020 -.030	--- -.186 -.210	.032 .032 .025	--- -.250 -.280	.088 .085 .078	--- -.325 -.355	.140 .140 .135
47.50	8.7 42.3 70.7	-.002 .045 -.080	-.195 -.195 -.228	-.033 .020 -.053	-.140 -.153 -.169	-.088 -.080 -.100	-.080 -.084 -.110	-.118 -.052 -.148	-.033 -.042 -.052	-.193 -.116 -.230	.015 .005 0	-.275 -.180 -.320	.058 .048 .046	-.365 -.232 -.383	.207 .200 .093
50.50	8.7 42.3 70.7	-.022 -.025 -.039	--- -.185 -.205	-.050 -.050 -.069	--- -.149 -.163	-.092 -.092 -.106	--- -.092 -.106	-.122 -.130 -.148	--- -.057 -.073	-.187 -.197 -.222	--- -.013 -.025	-.295 -.312 -.338	--- .030 .018	-.382 -.405 -.430	--- .070 .058
53.50	8.7 42.3 70.7	--- -.003 -.006	-.086 -.087 -.085	--- -.026 -.028	-.075 -.075 -.073	--- -.043 -.043	-.045 -.045 -.048	--- -.070 -.060	-.030 -.033 -.030	--- -.105 -.097	-.010 -.014 -.015	--- -.130 -.115	.025 .020 .013	--- -.198 -.138	.055 .050 .046
56.50	8.7 42.3 70.7	0 .004 .010	-.052 -.045 -.045	-.015 -.015 0	-.045 -.038 -.030	-.025 -.020 -.010	-.018 -.015 -.010	-.036 -.025 -.012	-.016 -.010 0	-.057 -.045 -.025	0 .010 .010	.060 .050 .006	-.025 -.025 -.028	-.035 -.028 -.028	.050 .048 .049
59.50	8.7 42.3 70.7	0 0 0	-.025 -.025 -.020	0 0 0	-.010 -.010 -.010	-.010 -.010 -.010	-.020 -.010 -.010	-.020 -.015 -.010	.002 -.003 -.010	-.029 -.023 -.018	.012 .008 0	-.025 -.026 -.015	.004 .015 .012	-.026 -.025 -.015	.035 .030 .018

(j) M,0.90.

Station (in.)	Percent fuselage radius	Angle of attack, degrees													
		-4		-2		0		2		4		6		8	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7 42.3 70.7	0.086 .061 .070	0.013 .021 .014	0.092 .080 .078	0.049 .060 .050	0.072 .066 .063	0.057 .054 .057	0.056 .060 .061	0.063 .065 .060	0.041 .050 .053	0.110 .103 .090	0.086 .030 .029	0.138 .123 .098	0.002 .003 -.003	0.156 .133 .084
15	8.7 42.3 70.7	.050 .040 .039	-.017 -.020 -.014	.051 .041 .018	.022 .018 .017	.029 .031 .018	.032 .018 .018	.030 .031 .033	.054 .050 .045	.014 .019 .020	.072 .063 .054	-.001 -.001 -.008	.095 .070 .050	-.021 -.027 -.039	.117 .082 .045
20	8.7 42.3 70.7	.016 .010 -.003	--- -.034 -.031	.007 .008 .001	--- -.015 -.019	0 -.009 -.008	--- 0 0	-.009 -.007 -.016	--- .007 -.001	-.018 -.019 -.026	--- .020 .011	-.020 -.021 -.029	--- .048 .019	-.057 -.066 -.081	--- .049 .005
25	8.7 42.3 70.7	.009 -.002 -.006	-.032 -.029 -.037	.009 -.002 -.009	-.020 -.019 -.020	-.001 -.010 -.005	-.011 -.018 -.015	-.018 -.027 -.026	-.001 -.006 -.012	-.019 -.027 -.029	.014 .011 -.002	-.028 -.024 -.030	.050 .048 .016	-.035 -.046 -.057	.050 .036 -.001
28.50	8.7 42.3 70.7	.011 .005 -.005	-.025 -.026 -.051	.004 -.001 -.009	-.026 -.019 -.021	-.005 -.001 -.005	-.010 -.005 -.006	-.028 -.027 -.039	-.016 -.016 -.008	-.029 -.031 -.036	.010 .002 -.019	-.029 -.027 -.038	.034 .039 .001	-.029 -.039 -.058	.050 .037 -.003
31.50	8.7 42.3 70.7	.021 .011 -.001	-.026 -.020 -.020	.009 .001 .005	-.017 -.011 -.007	-.001 0 -.002	-.002 -.001 -.003	-.020 -.018 -.018	.001 -.002 0	-.021 -.020 -.019	.020 .017 0	-.028 -.020 -.030	.041 .031 .025	-.029 -.038 -.040	.069 .054 .019
34.50	8.7 42.3 70.7	.054 .059 .058	-.010 0 .010	.056 .054 .063	.018 .026 .037	.039 .040 .050	.024 .029 .050	.027 .018 .029	.045 .050 .035	-.002 0 .002	.059 .060 .061	0 -.006 .004	.093 .087 .081	-.011 -.021 -.028	.129 .139 .092
38.00	8.7 42.3 70.7	.071 .077 .110	--- -.057 -.066	.060 .054 .083	--- -.005 -.001	.021 .021 .049	--- .020 .036	-.020 -.029 -.014	--- .046 .070	-.060 -.073 -.060	--- .081 .111	-.069 -.099 -.129	--- .132 .170	-.129 -.156 -.201	--- .174 .213
41.50	8.7 42.3 70.7	.044 .050 .051	-.132 -.139 -.157	.023 .023 .021	-.066 -.072 -.079	-.010 -.016 -.015	-.027 -.031 -.037	-.059 -.069 -.080	.027 .011 .021	-.120 -.131 -.152	.051 .060 .064	-.160 -.178 -.210	.120 .121 .140	-.230 -.256 -.293	.160 .161 .187
44.50	8.7 42.3 70.7	.035 .009 0	-.180 -.187 -.212	.011 -.020 -.029	-.111 -.119 -.139	-.019 -.058 -.070	-.063 -.068 -.087	-.071 -.115 -.130	-.020 -.019 -.029	-.113 -.184 -.201	.030 .030 .020	-.190 -.237 -.260	.089 .091 .087	-.273 -.321 -.349	.130 .131 .129
47.50	8.7 42.3 70.7	-.019 .034 -.031	-.230 -.230 -.258	.010 -.063 -.147	-.147 -.155 -.170	-.018 -.108 -.097	-.109 -.118 -.100	-.130 -.058 -.160	-.036 -.040 -.097	-.208 -.123 -.240	.009 -.001 -.009	-.271 -.181 -.317	.052 .049 .043	-.342 -.243 -.400	.086 .081 .079
50.50	8.7 42.3 70.7	-.034 -.039 -.057	--- -.261 -.261	-.062 -.069 -.081	--- -.175 -.193	-.097 -.101 -.118	--- -.119 -.132	-.157 -.164 -.188	--- -.064 -.079	-.253 -.264 -.291	--- -.025 -.039	-.327 -.340 -.361	--- .019 .041	-.400 -.420 -.500	--- .005 .031
53.50	8.7 42.3 70.7	--- -.021 -.023	-.121 -.120 -.117	--- -.030 -.033	-.079 -.078 -.071	--- -.047 -.042	-.059 -.058 -.058	--- -.084 -.080	-.041 -.047 -.041	--- -.130 -.120	-.012 -.021 -.021	--- -.269 -.250	.018 .011 .006	--- -.418 -.386	.042 .031 .021
56.50	8.7 42.3 70.7	-.015 -.010 -.001	-.065 -.054 -.045	-.016 -.021 ---	--- --- ---	-.025 -.017 -.009	-.035 -.025 -.029	-.046 -.034 -.015	-.020 -.010 -.007	-.059 -.054 -.023	0 .002 .010	-.058 -.051 -.030	.020 .019 .021	-.068 -.078 -.058	.031 .026 .020
59.50	8.7 42.3 70.7	0 -.002 -.004	-.026 -.028 -.019	--- --- ---	--- --- ---	-.009 -.009 -.005	-.009 -.011 -.018	-.020 -.017 -.008	0 -.005 -.008	-.029 -.021 -.015	.009 .001 0	-.013 -.013 -.008	.018 .023 .021	-.028 -.029 -.020	.019 .008 .025

TABLE II.– CONCLUDED

(k) M,0.92.

Station (in.)	Percent fuselage radius	Angle of attack, degrees													
		-4		-2		0		2		4		6		7	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
15	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
20	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
25	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
28.50	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
31.50	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
34.50	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	0.100 .100 .100	0.213 .205 .189
38.00	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	.003 .018 .030	--- -.260 -.304
41.50	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	-.198 -.230 -.246	.140 .136 .135
44.50	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- -.272 -.300	.108 .128 .108
47.50	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	-.300 -.305 -.326	.057 .054 .058
50.50	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	-.363 -.382 -.408	.006 .020 .008
53.50	8.7 42.3 70.7	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- -.405 -.420	.008 -.002 -.006
56.50	8.7 42.3 70.7	--- --- .007	-.046 -.040 .024	--- --- -.015	-.035 -.049 -.055	--- --- -.018	-.037 -.030 -.018	--- --- -.028	-.027 -.028 -.018	--- --- -.033	-.013 -.009 -.018	--- --- -.078	.018 .012 .046	-.137 -.172 -.120	.005 .002 .022
59.50	8.7 42.3 70.7	.010 .010 .010	-.012 -.010 -.005	-.012 -.010 -.018	-.005 -.008 -.020	-.020 -.015 -.012	-.008 -.015 -.012	-.018 -.013 -.018	-.002 -.005 -.008	-.020 -.020 -.016	.002 -.005 -.008	-.016 -.016 -.016	.008 -.005 -.010	-.025 -.025 -.020	.008 -.025 -.020

(l) M,0.94.

Station (in.)	Percent fuselage radius	Angle of attack, degrees													
		-4		-2		0		2		4		6		7	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7 42.3 70.7	0.117 .104 .098	0.056 .078 .048	0.099 .091 .083	0.050 .052 .053	0.080 .061 .078	0.071 .071 .069	0.064 .065 .063	0.069 .069 .061	--- --- ---	--- --- ---	--- --- ---	--- --- ---	0.081 .085 .088	0.155 .139 .101
15	8.7 42.3 70.7	.069 .068 .052	.011 .002 .011	.058 .050 .046	.014 .012 .019	.038 .035 .034	.053 .027 .027	.028 .028 .029	.040 .041 .039	--- --- ---	--- --- ---	--- --- ---	--- --- ---	-.004 -.010 -.016	.112 .084 .059
20	8.7 42.3 70.7	.021 .019 .004	--- -.018 -.006	-.001 -.009 -.031	--- -.030 -.028	-.001 -.005 -.001	--- -.009 -.002	-.004 -.003 -.009	--- .018 .010	--- --- ---	--- --- ---	--- --- ---	--- --- ---	-.036 -.039 -.040	--- .049 .029
25	8.7 42.3 70.7	.016 .005 -.006	-.022 -.020 -.024	-.005 -.015 -.023	-.036 -.039 -.034	-.013 -.015 -.017	-.014 -.020 -.023	-.016 -.011 -.016	.008 .007 0	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- -.057	.096 .039 .011
28.50	8.7 42.3 70.7	.025 .021 .012	0 -.008 -.016	-.010 -.010 -.019	-.028 -.020 -.027	.008 .008 0	-.002 0 0	-.017 -.016 -.011	.001 0 -.001	--- --- ---	--- --- ---	--- --- ---	--- --- ---	-.009 -.010 -.020	.060 .049 .029
31.50	8.7 42.3 70.7	.037 .030 .019	.010 .011 .010	.003 -.001 -.004	-.013 -.009 -.008	.010 0 0	.011 0 0	.001 .002 .007	.013 .011 .018	--- --- ---	--- --- ---	--- --- ---	--- --- ---	.004 .007 ---	--- --- ---
34.50	8.7 42.3 70.7	.078 .079 .079	.030 .031 .049	.060 .059 .060	.039 .031 .050	.051 .049 .059	.051 .049 .059	.046 .048 .054	.062 .065 .074	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
38.00	8.7 42.3 70.7	.097 .099 .128	--- -.017 -.024	.068 .061 .100	--- -.005 -.002	.038 .035 .059	--- .029 .050	.009 0 .018	--- .069 .098	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
41.50	8.7 42.3 70.7	.061 .067 .068	-.069 -.098 -.108	.035 .034 .033	-.054 -.072 -.084	-.012 -.020 -.023	-.020 -.026 -.028	-.048 -.051 -.062	.025 .019 .021	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
44.50	8.7 42.3 70.7	--- .027 .021	-.136 -.140 -.165	--- -.019 -.024	-.112 -.119 -.140	--- -.069 -.079	-.069 -.071 -.085	--- -.104 -.119	-.080 -.019 -.031	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
47.50	8.7 42.3 70.7	-.010 .049 -.028	-.182 -.080 -.209	-.058 .005 -.078	-.172 -.180 -.195	-.109 -.096 -.133	-.113 -.127 -.133	-.151 -.071 -.179	-.064 -.073 -.081	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
50.50	8.7 42.3 70.7	-.051 -.053 -.073	--- -.240 -.254	-.111 -.121 -.135	--- -.231 -.254	-.167 -.175 -.190	--- -.175 -.197	-.213 -.222 -.241	--- -.137 -.145	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
53.50	8.7 42.3 70.7	--- -.064 -.076	-.266 -.276 -.290	--- -.106 -.111	-.270 -.276 -.280	--- -.179 -.179	-.188 -.190 -.199	--- -.220 -.220	-.068 -.066 -.069	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---	--- --- ---
56.50	8.7 42.3 70.7	-.057 -.054 -.050	-.137 -.120 -.107	-.058 -.050 -.089	-.150 -.085 -.078	-.047 -.041 -.032	-.075 -.049 -.039	-.057 -.047 -.038	-.030 -.020 -.018	--- --- -.120	-.040 -.037 -.049	--- --- -.102	-.044 -.044 -.053	--- --- -.045	-.045 -.047 -.066
59.50	8.7 42.3 70.7	-.002 -.009 -.004	-.002 -.002 -.004	-.010 -.012 -.007	-.010 -.012 -.014	-.010 -.009 -.007	-.010 -.009 -.007	-.008 -.005 -.008	0 0 .002	-.029 -.019 -.028	-.027 -.018 -.028	-.072 -.071 -.075	-.026 -.051 -.049	-.130 -.139 -.129	-.041 -.054 -.075

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TABLE III.- PRESSURE COEFFICIENTS ON A FUSELAGE IN COMBINATION WITH A WING HAVING A SWEEPBACK ANGLE OF 35° AND AN ASPECT RATIO OF 6.

(a) M,0.40.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
10	8.7 42.3 70.7	0.061 .074 .064	0.006 .006 .006	0.068 .061 .052	0.029 .019 .006	0.048 .042 .039	0.035 .035 .035	0.035 .035 .035	0.068 .062 .048	0.030 .018 .020	0.071 .068 .045	0.005 .003 -.003	0.100 .064 .068
15	8.7 42.3 70.7	.052 .042 .029	-.023 -.023 -.023	.035 .058 .029	.003 -.003 .003	.016 .008 .010	.006 .003 .003	.003 .005 .003	.035 .019 .019	-.003 -.013 -.013	.039 .035 .019	-.026 -.023 -.026	.071 .058 .029
20	8.7 42.3 70.7	.029 .010 0	.003 .003 .003	.010 .006 .003	-.029 -.029 -.029	-.003 -.003 -.013	-.010 -.010 -.013	-.023 -.023 -.026	.010 .003 .003	-.029 -.029 -.029	.019 .010 .003	-.029 -.029 -.058	.042 .035 .006
25	8.7 42.3 70.7	.019 .006 -.019	-.029 -.029 -.026	.030 .003 -.013	-.029 -.029 -.029	-.013 -.013 -.023	-.019 -.023 -.026	-.026 -.026 -.029	.003 -.003 -.013	-.029 -.029 -.039	.010 .003 -.006	-.035 -.042 -.055	.016 .019 -.003
28.50	8.7 42.3 70.7	.013 .006 .003	-.029 -.029 -.035	.006 .003 .003	-.029 -.029 -.029	-.013 -.016 -.013	-.023 -.019 -.026	-.026 -.026 -.026	.003 .003 -.003	-.052 -.052 -.052	.013 .006 -.006	-.035 -.035 -.035	.042 .029 .003
31.50	8.7 42.3 70.7	.019 .010 0	-.045 -.042 -.042	.003 .003 .003	-.029 -.029 -.026	-.019 -.019 -.013	-.026 -.029 -.023	-.026 -.026 -.026	.003 -.006 .003	-.042 -.048 -.048	.013 .003 .003	-.058 -.058 -.061	.039 .029 .006
34.50	8.7 42.3 70.7	.042 .035 .019	-.061 -.052 -.058	.029 .019 .013	-.029 -.029 -.029	-.003 -.003 -.003	-.023 -.023 -.013	-.026 -.026 -.026	.006 .003 .010	-.035 -.045 -.048	.029 .026 .019	-.061 -.068 -.087	.061 .042 .038
38.00	8.7 42.3 70.7	.035 .035 .068	.235 .235 -.094	.010 .006 .035	-.052 -.052 -.052	-.026 -.026 -.010	-.026 -.026 -.013	-.045 -.055 -.042	.016 .013 .035	-.084 -.090 -.094	.035 .032 .048	-.116 -.126 -.158	.074 .074 .100
41.50	8.7 42.3 70.7	.035 .035 .052	-.108 -.123 -.158	.006 .010 .010	-.061 -.077 -.091	-.029 -.029 -.048	-.038 -.035 -.045	-.061 -.061 -.087	.003 .003 .003	-.094 -.110 -.303	.035 .035 .042	-.132 -.158 -.197	.074 .077 .100
44.50	8.7 42.3 70.7	.019 .013 .019	-.108 -.126 -.155	-.013 -.013 -.023	-.077 -.087 -.119	-.045 -.058 -.061	-.045 -.052 -.087	-.077 -.077 -.094	-.003 -.020 -.029	-.077 -.119 -.155	.029 .023 .005	-.158 -.158 -.190	.048 .048 .052
47.50	8.7 42.3 70.7	.019 .035 .003	-.094 -.100 -.123	-.013 .019 -.029	-.068 -.068 -.090	-.068 -.013 -.061	-.055 -.058 -.061	-.061 -.026 -.094	-.013 -.013 -.026	-.094 -.098 -.126	.003 .003 .003	-.119 -.084 -.158	.064 .045 .042
50.50	8.7 42.3 70.7	.003 .003 -.003	-.055 -.087 -.091	-.023 -.023 -.029	-.029 -.061 -.064	-.045 -.045 -.058	-.026 -.055 -.058	-.061 -.061 -.061	.003 -.026 -.029	-.087 -.087 -.094	.019 .003 -.013	-.100 -.108 -.116	.058 .029 .019
53.50	8.7 42.3 70.7	--- .003 .003	-.061 -.061 -.061	--- -.003 0	-.045 -.042 -.032	--- -.029 -.029	-.032 -.032 -.029	--- -.035 -.032	-.013 -.013 -.023	--- -.061 .030	.003 .003 .003	--- -.044 -.061	.029 .023 .013
56.50	8.7 42.3 70.7	-.003 -.003 -.003	-.058 -.058 -.058	-.016 -.016 -.016	-.068 -.068 -.039	-.029 -.026 -.082	-.035 -.035 -.035	-.029 -.029 -.022	-.026 -.026 -.026	-.058 -.045 -.029	-.023 -.023 -.023	-.058 -.055 -.039	.013 .003 .003
59.50	8.7 42.3 70.7	-.023 -.023 -.029	-.055 -.045 -.045	-.023 -.023 -.029	-.029 -.029 -.032	-.019 -.016 -.022	-.026 -.029 -.029	-.032 -.032 -.029	-.019 -.019 -.032	-.032 -.029 -.038	0 0 -.029	-.029 -.029 -.035	-.013 -.013 -.026

Station (in.)	Percent fuselage radius	Angle of attack, degrees: 8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface	12, Upper surface	12, Lower surface	14, Upper surface	14, Lower surface	16, Upper surface	16, Lower surface	18, Upper surface	18, Lower surface
10	8.7 42.3 70.7	-0.019 -.019 -.035	0.126 .094 .061	-0.006 -.029 -.058	0.145 .123 .058	-0.032 -.039 -.071	0.168 .132 .061	-0.039 -.065 -.100	0.216 .158 .058	-0.003 -.041 -.049	0.075 .010 -.068	-0.089 -.094 -.100	0.094 .107 .064
15	8.7 42.3 70.7	-.035 -.035 -.042	.087 .061 .029	-.058 -.039 -.071	.103 .090 .042	-.035 -.058 -.090	.035 .097 .026	-.042 -.074 -.100	.174 .119 .083	-.006 -.060 -.088	.132 .157 .090	-.032 -.116 -.116	.145 .155 .013
20	8.7 42.3 70.7	-.039 -.045 -.065	.061 .029 0	-.045 -.061 -.090	.081 .084 0	-.048 -.065 -.097	.123 .068 0	-.042 -.094 -.103	.135 .094 -.003	-.006 -.066 -.078	.201 .158 .088	-.055 -.126 -.126	.116 .132 -.029
25	8.7 42.3 70.7	-.048 -.061 -.074	.061 .029 -.016	-.058 -.071 -.090	.068 .035 -.010	-.058 -.081 -.097	.100 .065 -.006	-.065 -.097 -.105	.186 .077 -.013	-.068 -.069 -.088	.191 .188 .003	-.061 -.126 -.126	.206 .116 -.069
28.50	8.7 42.3 70.7	-.058 -.061 -.077	.061 .029 -.003	-.071 -.081 -.097	.081 .048 -.006	-.065 -.094 -.100	.123 .065 -.006	-.068 -.103 -.126	.132 .094 -.029	-.054 -.091 -.091	.213 .138 .005	-.089 -.148 -.126	.213 .138 -.029
31.50	8.7 42.3 70.7	-.074 -.074 -.084	.061 .029 .003	-.094 -.100 -.113	.090 .048 0	-.097 -.113 -.129	.126 .068 0	-.108 -.142 -.142	.158 .094 -.003	-.066 -.113 -.100	.216 .150 .088	-.116 -.148 -.126	.229 .068 .029
34.50	8.7 42.3 70.7	-.094 -.103 -.126	.077 .061 .029	-.11[illegible] -.135 -.161	.113 .081 .065	-.126 -.165 -.190	.145 .097 .032	-.139 -.197 -.200	.184 .126 .029	-.103 -.160 -.169	.232 .184 .065	-.139 -.190 -.190	.245 .181 .058
38.00	8.7 42.3 70.7	-.158 -.190 -.226	.119 .119 .126	-.197 -.255 -.145	.135 .097 .135	-.226 -.294 -.358	.194 .161 .177	-.294 -.029 -.419	.223 .190 .190	-.348 -.317 -.379	.278 .245 .248	-.396 -.361 -.384	.294 .255 .289
41.50	8.7 42.3 70.7	-.190 -.219 -.271	.119 .119 .132	-.238 -.297 -.355	.152 .155 .177	-.258 -.355 -.435	.194 .194 .226	-.300 -.439 -.535	.283 .219 .255	-.317 -.470 -.484	.279 .270 .310	-.406 -.545 -.771	.294 .248 .300
44.50	8.7 42.3 70.7	-.194 -.213 -.261	.094 .097 .087	-.242 -.287 -.389	.129 .129 .129	-.258 -.348 -.384	.161 .161 .194	-.303 -.455 -.471	.198 .184 .180	-.381 -.511 -.571	.238 .229 .238	-.448 -.642 -.771	.289 .289 .289
47.50	8.7 42.3 70.7	-.158 -.106 -.200	.065 .065 .065	-.190 -.158 -.265	.097 .097 .097	-.197 -.197 -.297	.129 .129 .129	-.235 -.294 -.308	-.019 -.019 -.019	-.257 -.361 -.480	.088 .088 .088	-.374 -.497 -.690	.174 .165 .165
50.50	8.7 42.3 70.7	-.129 -.139 -.145	.061 .045 .035	-.155 -.187 -.194	.081 .065 .068	-.184 -.235 -.203	.097 .090 .071	-.297 -.329 -.290	.118 .094 .077	-.294 -.445 -.379	.154 .128 .100	-.807 -.642 -.610	.132 .108 .068
53.50	8.7 42.3 70.7	--- -.094 -.084	.029 .029 .029	--- -.129 -.113	.048 .048 .032	--- -.158 -.132	.065 .058 .048	--- -.219 -.190	.061 .061 .045	--- -.317 -.254	.100 .091 .060	--- -.345 -.458	.065 .035 -.029
56.50	8.7 42.3 70.7	-.061 -.061 -.058	.013 .013 .013	-.081 -.090 -.061	.035 .026 .019	-.094 -.100 -.077	.045 .035 .039	-.261 -.294 -.309	.051 .035 .019	-.072 -.166 ---	--- --- ---	-.094 -.087 -.247	.032 .019 -.094
59.50	8.7 42.3 70.7	-.035 -.035 -.039	.013 .006 .006	-.045 -.051 -.051	.026 .019 -.019	-.051 -.051 -.054	.026 .019 -.019	-.061 -.071 -.077	.045 .019 -.019	--- --- ---	--- --- ---	-.061 -.103 -.135	.045 .013 -.051

NACA

TABLE III.– CONTINUED

(b) M,0.60.

Station (in.)	Percent fuselage radius	Angle of attack, degrees											
		-4		-2		0		2		4		6	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7	0.083	0.009	0.067	0.017	0.058	0.040	0.033	0.057	0.018	0.085	0.008	0.110
	42.3	.085	.009	.058	.017	.052	.040	.035	.052	.018	.085	.008	.108
	70.7	.067	.009	.050	.017	.047	.035	.035	.047	.018	.068	.008	.068
15	8.7	.050	-.017	.053	-.009	.018	.013	.002	.027	-.014	.052	-.015	.077
	42.3	.042	-.017	.028	-.005	.018	.002	.002	.018	-.010	.038	-.023	.057
	70.7	.053	-.017	.002	-.005	.018	.008	.002	.012	-.018	.030	-.029	.035
20	8.7	.028	-.028	.011	-.025	.008	-.007	.015	.008	-.023	.035	-.052	.052
	42.3	.017	-.030	0	-.028	-.003	-.010	.015	.002	-.027	.018	-.040	.035
	70.7	0	-.033	0	-.025	-.007	-.015	.015	.002	-.032	.002	-.048	.010
25	8.7	.017	-.033	0	-.033	-.018	-.015	-.003	.002	-.032	.015	-.048	.035
	42.3	0	-.033	-.005	-.033	-.015	-.015	-.027	-.003	-.037	.013	-.048	.027
	70.7	-.005	-.033	-.011	-.033	-.015	-.015	-.003	-.015	-.037	.008	-.046	.008
28.50	8.7	.017	-.053	0	-.028	-.018	-.015	-.023	.002	-.032	.027	-.040	.043
	42.3	.008	-.053	0	-.028	-.015	-.015	-.023	.002	-.032	.018	-.046	.035
	70.7	0	-.038	-.005	-.033	-.015	-.015	-.023	-.045	-.032	.008	-.046	.002
31.50	8.7	.017	-.042	0	-.033	-.015	-.015	-.032	.002	-.043	.027	-.053	.058
	42.3	.012	-.042	0	-.033	-.015	-.015	-.028	-.007	-.043	.018	-.057	.035
	70.7	0	-.042	0	-.038	-.015	-.015	-.028	.002	-.043	.007	-.065	.013
34.50	8.7	.045	-.058	.028	-.033	.002	-.013	-.020	.007	-.045	.040	-.065	.068
	42.3	.053	-.050	.017	-.033	.002	-.018	-.023	.005	-.048	.035	-.073	.057
	70.7	.022	-.035	.005	-.038	.002	-.008	-.023	.005	-.048	.030	-.082	.035
38.00	8.7	.050	-.083	-.017	-.063	-.015	-.024	-.045	.005	-.070	.057	-.132	.105
	42.3	.042	-.092	.008	-.063	-.024	-.020	-.065	.016	-.107	.060	-.148	.090
	70.7	.075	-.100	.037	-.058	.008	-.010	-.048	.035	-.107	.065	-.175	.118
41.50	8.7	.050	-.117	.005	-.083	-.052	-.044	-.074	.008	-.120	.052	-.165	.090
	42.3	.022	-.134	.003	-.100	-.057	-.049	-.052	-.003	-.132	.052	-.190	.070
	70.7	.058	-.167	.003	-.117	-.044	-.057	-.099	.002	-.185	.068	-.245	.118
44.50	8.7	.016	-.134	-.017	-.100	-.054	-.057	-.095	-.088	-.035	.030	-.182	.065
	42.3	.016	-.139	-.017	-.105	-.057	-.066	-.099	-.073	-.012	.035	-.198	.052
	70.7	.016	-.175	-.025	-.134	-.074	-.052	-.124	-.048	-.088	.022	-.238	.065
47.50	8.7	.017	-.017	-.017	-.092	-.045	-.054	-.052	-.025	-.115	.015	-.148	.052
	42.3	.018	-.125	.012	-.100	-.007	-.066	-.040	-.032	-.070	.018	-.098	.052
	70.7	0	-.145	-.033	-.117	-.074	-.077	-.107	-.048	-.145	.005	-.190	.043
50.50	8.7	0	-.067	-.028	-.050	-.049	-.024	-.029	.002	-.098	.030	-.140	.058
	42.3	0	-.100	-.028	-.053	-.049	-.054	-.029	-.052	-.098	.008	-.127	.027
	70.7	-.008	-.108	-.053	-.058	-.057	-.066	-.082	-.048	-.110	.002	-.132	.018
53.50	8.7	---	-.067	---	-.050	---	-.032	---	-.028	---	.010	---	.027
	42.3	0	-.067	-.017	-.050	-.032	-.032	-.042	-.012	-.065	.008	-.082	.018
	70.7	0	-.058	-.017	-.050	-.024	-.032	-.040	-.018	-.057	.002	-.078	.018
56.50	8.7	-.008	-.040	-.025	-.049	-.032	-.027	-.045	-.018	-.042	-.007	-.064	.015
	42.3	-.008	-.040	-.028	-.045	-.032	-.027	-.040	-.018	-.048	-.007	-.057	.010
	70.7	-.002	-.032	-.015	-.040	-.015	-.023	-.023	-.028	-.035	-.013	-.040	.002
59.50	8.7	-.005	-.028	-.080	-.057	-.018	-.028	-.023	-.015	-.037	-.007	-.032	.002
	42.3	-.005	-.028	-.080	-.057	-.028	-.028	-.025	-.015	-.037	-.004	-.032	.005
	70.7	-.007	-.028	-.083	-.057	-.018	-.029	-.023	-.023	-.037	-.003	-.032	-.015

Station (in.)	Percent fuselage radius	Angle of attack, degrees											
		8		10		12		14		16		18	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7	-0.012	0.135	-0.023	0.168	-0.028	0.202	-0.032	0.235	-0.040	0.246	-0.033	0.356
	42.3	-.014	.130	-.028	.127	-.040	.152	-.057	.178	-.080	.194	-.088	.215
	70.7	-.023	.072	-.043	.068	-.065	.068	-.075	.058	-.124	.060	-.152	.094
15	8.7	-.032	.077	-.057	.123	-.037	.152	-.037	.193	-.049	.223	-.041	.265
	42.3	-.032	.068	-.043	.085	-.057	.105	-.073	.135	-.107	.144	-.127	.164
	70.7	-.043	.035	-.065	.035	-.082	-.035	-.098	.035	-.124	.025	-.187	.082
20	8.7	-.040	.068	-.045	.093	-.048	.122	-.060	.160	-.074	.186	-.050	.232
	42.3	-.115	.047	-.057	.060	-.053	.088	-.050	.122	-.107	.136	-.197	.149
	70.7	-.062	.002	-.082	.008	-.090	.108	-.098	.002	-.124	-.002	-.124	-.005
25	8.7	-.043	.057	-.048	.168	-.048	.110	-.049	.152	-.057	.178	-.088	.219
	42.3	-.057	.035	-.065	.052	-.077	.068	-.090	.090	-.119	.111	-.124	.132
	70.7	-.065	.002	-.082	.002	-.090	.002	-.098	-.003	-.116	-.023	-.116	-.017
28.50	8.7	-.046	.068	-.048	.088	-.048	.118	-.049	.152	-.057	.186	-.050	.200
	42.3	-.065	.040	-.073	.052	-.082	.077	-.098	.102	-.119	.111	-.132	.141
	70.7	-.073	.002	-.088	.002	-.095	.002	-.098	.002	-.116	-.182	-.116	-.002
31.50	8.7	-.065	-.002	-.073	.095	-.082	.135	-.082	.168	-.090	.194	-.029	.232
	42.3	-.073	-.035	-.090	-.060	-.107	.085	-.115	.110	-.132	.127	-.132	.157
	70.7	-.082	.013	-.090	.010	-.107	.013	-.115	.018	-.124	.023	-.116	.008
34.50	8.7	-.082	.002	-.105	.127	-.115	.168	-.123	.202	-.132	.226	-.124	.270
	42.3	-.098	.078	-.132	.093	-.148	.118	-.165	.152	-.174	.166	.166	.199
	70.7	-.112	.043	-.140	.052	-.165	.052	-.165	.060	-.157	.060	-.141	.078
38.00	8.7	-.170	.122	-.215	.168	-.248	.202	-.273	.243	-.283	.278	-.281	.306
	42.3	-.198	.122	-.265	.152	-.320	.185	-.357	.218	-.350	.245	-.331	.273
	70.7	-.248	.152	-.327	.168	-.350	.202	-.415	.218	-.384	.245	-.349	.265
41.50	8.7	-.215	.135	-.265	.168	-.315	.207	-.382	.247	-.417	.266	-.430	.304
	42.3	-.257	.135	-.332	.168	-.408	.207	-.477	.243	-.526	.262	-.546	.298
	70.7	-.318	.160	-.232	.202	-.457	.243	-.595	.285	-.477	.305	-.709	.331
44.50	8.7	-.227	.110	-.277	.143	-.328	.173	-.382	.310	-.459	.284	-.513	.253
	42.3	-.257	.118	-.338	.143	-.740	.173	-.505	.310	-.595	.284	-.689	.248
	70.7	-.295	.110	-.377	.152	-.445	.185	-.548	.218	-.710	.224	-.770	.257
47.50	8.7	-.182	.085	-.225	.113	-.248	.135	-.307	.183	-.400	.162	-.475	.190
	42.3	-.140	.085	-.182	.118	-.248	.135	-.340	.152	-.429	.162	-.492	.174
	70.7	-.240	.023	-.298	.105	-.365	.135	-.445	.158	-.618	.161	-.728	.167
50.50	8.7	-.145	.072	-.170	.090	-.207	.110	-.248	.118	-.333	.111	-.402	.116
	42.3	-.162	.055	-.203	.068	-.282	.085	-.240	.090	-.552	.077	-.668	.085
	70.7	-.165	.018	-.206	.057	-.262	.065	-.357	.077	-.518	.052	-.662	.050
53.50	8.7	---	.043	---	.090	---	.068	---	.068	---	.082	---	.050
	42.3	-.098	.035	-.132	.047	-.198	.098	-.298	.052	.476	.087	-.608	.008
	70.7	-.080	.027	-.110	.035	-.157	.034	-.232	.038	.375	-.088	-.735	-.066
56.50	8.7	-.065	.022	-.082	.033	-.107	.052	-.128	.032	-.149	.020	-.149	.002
	42.3	-.073	.015	-.098	.025	-.132	.022	-.198	.013	-.342	-.013	-.472	-.040
	70.7	-.085	.002	-.069	.013	-.102	.005	-.148	-.010	-.230	-.059	-.325	-.132
59.50	8.7	-.043	.013	-.058	.022	-.070	.018	-.082	.018	-.086	.005	-.062	-.005
	42.3	-.043	.008	-.057	.013	-.077	.007	-.101	.002	-.191	-.027	-.248	-.053
	70.7	-.040	-.018	-.054	-.015	-.077	-.080	-.075	-.023	-.133	-.074	-.148	-.137

NACA

TABLE III.- CONTINUED

(c) M,0.70.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
10	8.7	0.008	0.012	0.060	0.019	0.048	0.035	0.088	0.055	0.011	0.068
	42.3	.079	.018	.065	.018	.048	.035	.088	.048	.011	.068
	70.7	.064	.022	.058	.019	.048	.035	.088	.041	.011	.048
15	8.7	.058	-.018	.038	-.006	.017	.008	-.085	.019	-.028	.015
	42.3	.041	-.019	.028	-.018	.015	.001	-.005	.011	-.018	.004
	78.7	.031	-.019	.021	-.008	.025	.001	-.005	.008	-.028	.013
20	8.7	.024	-.032	.008	-.031	-.005	-.021	-.025	-.005	-.059	.015
	42.3	.015	-.032	.005	-.031	-.005	-.019	-.025	-.028	-.059	.001
	70.7	.001	-.032	-.008	-.035	-.022	-.019	-.038	-.018	-.030	.038
25	8.7	.025	-.038	-.001	-.035	-.012	-.023	-.037	-.038	-.038	.004
	42.3	.001	-.038	-.012	-.035	-.019	-.023	-.039	-.019	-.063	-.008
	70.7	-.009	-.036	-.015	-.035	-.019	-.025	-.039	-.023	-.065	-.019
28.50	8.7	.012	-.038	-.001	-.035	-.005	-.019	-.039	-.028	-.043	.001
	42.3	.008	-.038	-.008	-.035	-.019	-.019	-.039	-.028	-.043	-.006
	70.7	-.005	-.041	-.015	-.035	-.019	-.019	-.039	-.023	-.043	-.019
31.50	8.7	.015	-.041	-.001	-.035	-.018	-.023	-.039	-.018	-.038	.001
	42.3	.008	-.041	-.008	-.035	-.015	-.023	-.039	-.017	-.038	-.006
	70.7	-.005	-.041	-.015	-.035	-.019	-.019	-.039	-.018	-.038	-.018
34.50	8.7	.041	-.036	.023	-.035	-.001	-.019	-.023	.001	-.028	.004
	42.3	.035	-.045	.015	-.035	-.005	-.018	-.023	.001	-.028	.013
	70.7	.021	-.045	.009	-.035	-.001	-.018	-.023	.001	-.028	.008
38.00	8.7	.048	-.098	.018	-.065	-.015	-.039	-.062	.001	-.098	.035
	42.3	.021	-.096	.018	-.061	-.023	-.051	-.066	.003	-.118	.041
	70.7	.002	-.105	.045	-.061	.008	-.028	-.058	.008	-.106	.008
41.50	8.7	.048	-.139	.009	-.108	-.038	-.059	-.088	-.018	-.138	.008
	42.3	.048	-.158	.009	-.135	-.039	-.066	-.099	-.016	-.146	.008
	70.7	.061	-.179	.009	-.139	-.045	-.072	-.115	-.016	-.179	.041
44.50	8.7	.017	-.158	-.021	-.182	-.063	-.079	-.118	-.039	-.158	.004
	42.3	.017	-.166	-.021	-.126	-.072	-.088	-.119	-.038	-.178	.001
	70.7	.018	-.199	-.035	-.168	-.088	-.106	-.145	-.056	-.199	-.018
47.50	8.7	.008	-.138	-.021	-.135	-.039	-.072	-.106	-.039	-.005	-.008
	42.3	.015	-.216	.005	-.182	-.019	-.066	-.092	-.072	-.072	-.018
	70.7	-.005	-.166	-.044	-.142	-.066	-.099	-.132	-.066	-.178	-.025
50.50	8.7	-.005	-.085	-.035	-.068	-.054	-.045	-.098	-.021	-.118	-.001
	42.3	-.008	-.118	-.035	-.107	-.059	-.071	-.098	-.058	-.138	-.025
	70.7	-.019	-.126	-.041	-.108	-.072	-.088	-.106	-.059	-.138	-.039
53.50	8.7	- - -	-.072	- - -	-.061	- - -	-.045	- - -	-.036	- - -	.018
	42.3	-.005	-.072	-.021	-.052	-.038	-.045	-.066	-.036	-.079	.018
	70.7	-.005	-.126	-.019	-.055	-.038	-.036	-.058	-.089	-.066	.018
56.50	8.7	-.019	-.051	-.028	- - -	-.038	-.040	-.088	-.030	-.066	-.008
	42.3	-.018	-.048	-.021	- - -	-.032	-.036	-.058	-.031	-.066	-.008
	70.7	-.007	-.046	- - -	- - -	-.024	-.032	-.034	-.024	-.039	-.008
59.50	8.7	-.018	-.035	- - -	- - -	-.038	-.034	-.038	-.024	-.041	-.017
	42.3	-.017	-.035	- - -	- - -	-.038	-.032	-.034	-.026	-.048	-.008
	70.7	-.018	-.036	- - -	- - -	-.032	-.039	-.036	-.036	-.039	-.035

Station (in.)	Percent fuselage radius	Angle of attack, degrees: 6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface	14 Upper surface	14 Lower surface
10	8.7	-0.004	0.100	-0.005	0.135	-0.032	0.158	-0.039	0.202	-0.043	0.229
	42.3	-.004	.095	-.025	.108	-.039	.122	-.058	.148	-.046	.172
	70.7	-.008	.039	-.025	.039	-.032	.062	-.079	.065	-.306	.088
15	8.7	-.031	.032	-.019	.092	-.045	.115	-.048	.175	-.049	.189
	42.3	-.031	.039	-.043	.088	-.079	.082	-.066	.102	-.066	.122
	70.7	-.035	.032	-.082	.082	-.045	.089	-.098	.088	-.138	.088
20	8.7	-.039	.041	-.028	.064	-.032	.082	-.058	.138	-.038	.158
	42.3	-.043	.029	-.028	.041	-.046	.005	-.079	.015	-.106	.095
	70.7	-.058	.001	-.079	.001	-.086	-.005	-.099	-.001	-.138	-.020
25	8.7	-.045	.032	-.028	.051	-.038	.068	-.045	.108	-.043	.135
	42.3	-.058	.019	-.066	.028	-.072	.041	-.079	.068	-.088	.082
	70.7	-.097	-.008	-.075	-.018	-.086	-.019	-.094	-.018	-.106	-.028
28.50	8.7	-.048	.039	-.058	.095	-.038	.082	-.058	.182	-.088	.148
	42.3	-.055	.019	-.066	.032	-.075	.045	-.079	.068	-.095	.095
	70.7	-.061	-.008	-.079	-.018	-.088	-.018	-.139	-.018	-.099	-.028
31.50	8.7	-.061	.036	-.066	.064	-.072	.082	-.066	.126	-.079	.169
	42.3	-.061	.039	-.079	.041	-.086	.022	-.092	.068	-.126	.095
	70.7	-.061	.005	-.086	.002	-.099	.001	-.126	.008	-.126	.008
34.50	8.7	-.084	.059	-.098	.106	-.106	.188	-.186	.188	-.186	.195
	42.3	-.075	.045	-.126	.068	-.119	.055	-.139	.122	-.136	.148
	70.7	-.075	.032	-.186	.035	-.138	.061	-.139	.048	-.138	.097
38.00	8.7	-.008	.085	-.189	.188	-.239	.168	-.266	.288	-.279	.242
	42.3	-.168	.085	-.226	.128	-.269	.148	-.267	.189	-.239	.285
	70.7	-.186	.119	-.279	.148	-.369	.175	-.189	.206	-.306	.289
41.50	8.7	-.221	.085	-.266	.135	-.329	.168	-.369	.215	-.326	.242
	42.3	-.281	.095	-.306	.135	-.380	.168	-.165	.215	-.307	.242
	70.7	-.274	.112	-.373	.182	-.447	.202	-.347	.249	-.280	.288
44.50	8.7	-.281	.065	-.279	.102	-.333	.222	-.386	.175	-.347	.202
	42.3	-.234	.062	-.313	.108	-.360	.202	-.400	.175	-.348	.222
	70.7	-.270	.059	-.345	.102	-.420	.228	-.280	.182	-.306	.209
47.50	8.7	-.181	.045	-.226	.075	-.266	.102	-.320	.131	-.308	.148
	42.3	-.228	.039	-.172	.072	-.219	.095	-.306	.126	-.300	.172
	70.7	-.226	.032	-.266	.068	-.346	.095	-.426	.122	-.327	.175
50.50	8.7	-.146	.039	-.172	.064	-.213	.082	-.259	-.172	-.326	.095
	42.3	-.146	.029	-.193	.041	-.243	.072	-.346	-.199	-.373	.082
	70.7	-.161	.005	-.199	.028	-.246	.041	-.380	.055	-.440	.064
53.50	8.7	- - -	.012	- - -	.028	- - -	.041	- - -	.061	- - -	.041
	42.3	-.101	.005	-.119	.024	-.166	.028	-.233	.080	-.313	.017
	70.7	-.081	.005	-.106	.015	-.139	.015	-.199	.008	-.289	-.016
56.50	8.7	-.071	.004	-.086	.015	-.106	.016	-.138	.021	-.166	.005
	42.3	-.071	0	-.086	.003	-.119	.004	-.178	.005	-.273	-.016
	70.7	-.048	-.008	-.049	-.008	-.090	-.011	-.124	-.017	-.118	-.024
59.50	8.7	-.047	-.021	-.058	.003	-.075	.003	-.084	.007	-.102	-.011
	42.3	-.047	-.008	-.057	-.008	-.092	-.011	-.098	-.013	-.128	-.033
	70.7	-.039	-.021	-.058	-.026	-.077	-.030	-.091	-.043	-.131	-.074

NACA

TABLE III.- CONTINUED

(d) M,0.75.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
10	8.7	[illegible]	0.006	0.007	0.007	0.045	0.045	0.084	0.055	0.009	0.002
	42.3	.044	.006	.004	.007	.005	.039	.084	.049	.008	.030
	78.7	.028	.008	.007	.007	.005	.031	.031	.043	.013	.008
15	8.7	.029	-.018	.040	-.004	.009	.009	-.006	.018	-.014	.045
	42.3	.027	-.008	.007	-.010	.009	.008	-.006	.006	-.016	.033
	78.7	.025	-.008	.001	-.004	.009	.002	-.006	.006	-.013	.002
20	8.7	.009	-.034	.009	-.002	-.016	-.016	-.024	-.006	-.008	.005
	42.3	.008	-.034	.008	-.002	-.016	-.016	-.027	-.010	-.008	.009
	78.7	-.018	-.040	-.008	-.002	-.016	-.008	-.031	-.018	-.004	-.004
25	8.7	-.001	-.043	-.004	-.006	-.008	-.005	-.031	-.018	-.007	.005
	42.3	-.016	-.043	-.016	-.006	-.008	-.005	-.037	-.016	-.004	0
	78.7	-.008	-.047	-.013	-.008	-.008	-.008	-.037	-.024	-.014	-.013
25.50	8.7	-.008	-.040	.015	-.008	-.008	-.016	-.034	-.015	-.040	.009
	42.3	-.018	-.040	-.018	-.002	-.008	-.018	-.034	-.018	-.040	.009
	78.7	-.008	-.048	-.010	-.031	-.002	-.005	-.034	-.027	-.040	-.013
31.50	8.7	-.001	-.047	-.004	-.051	-.016	-.008	-.037	-.016	-.047	.009
	42.3	-.006	-.047	-.004	-.031	-.016	-.008	-.037	-.018	-.037	.003
	78.7	-.008	-.047	-.010	-.009	-.005	-.008	-.037	-.018	-.047	.004
34.50	8.7	.017	-.002	.021	-.006	-.018	-.008	-.031	.002	-.040	.013
	42.3	.017	-.047	.013	-.008	-.010	-.018	-.031	0	-.040	.007
	78.7	.008	-.043	.015	-.002	-.018	-.004	-.008	0	-.040	.001
38.00	8.7	.033	-.093	.015	-.005	-.008	-.005	-.005	.006	-.006	.015
	42.3	.007	-.087	.015	-.003	-.005	-.016	-.007	.006	-.110	.004
	78.7	.004	-.108	.001	-.042	-.004	0	-.049	.031	-.107	.008
41.50	8.7	.007	-.152	.020	-.005	-.033	-.033	-.058	-.018	-.148	.039
	42.3	.007	-.157	.005	-.108	0	-.005	-.104	-.016	-.157	.059
	78.7	.031	-.138	.005	-.166	-.007	-.005	-.128	-.018	-.198	.055
44.50	8.7	-.004	-.164	-.008	-.128	-.001	-.073	-.126	-.043	-.173	.013
	42.3	-.010	-.173	-.031	-.166	-.090	-.077	-.138	-.043	-.187	.018
	78.7	-.013	-.211	-.040	-.156	-.102	-.108	-.153	-.041	-.212	.008
47.50	8.7	-.013	-.157	-.005	-.114	-.077	-.037	-.116	-.049	-.151	-.004
	42.3	.005	-.157	.006	-.128	-.038	-.043	-.097	-.035	-.095	-.004
	78.7	-.034	-.194	-.031	-.114	-.108	-.108	-.114	-.057	-.107	-.016
50.50	8.7	-.038	-.095	-.040	-.060	-.077	-.004	-.104	-.006	-.18-	.009
	42.3	-.006	-.111	-.040	-.085	-.077	-.077	-.104	-.005	-.126	-.004
	78.7	-.040	-.139	-.046	-.105	-.086	-.093	-.116	-.057	-.139	-.008
53.50	8.7	- - -	-.083	- - -	-.058	- - -	-.047	- - -	-.034	- - -	-.007
	42.3	-.008	-.008	-.008	-.055	-.047	-.049	-.057	-.034	-.077	-.013
	78.7	-.008	-.071	-.008	-.046	-.040	-.040	-.058	-.031	-.065	-.002
56.50	8.7	-.034	-.008	-.006	-.042	-.040	-.030	-.035	-.013	-.059	-.001
	42.3	-.031	-.043	-.008	-.042	-.040	-.008	-.005	-.038	-.055	-.013
	78.7	-.031	-.048	-.016	-.038	-.079	-.008	-.036	-.007	-.038	-.015
59.50	8.7	-.003	-.039	-.016	-.029	-.005	-.006	-.037	-.008	-.031	-.011
	42.3	-.005	-.008	-.017	-.004	-.008	-.007	-.034	-.004	-.033	-.015
	78.7	-.003	-.048	-.008	-.035	-.007	-.005	-.034	-.040	-.036	-.037

Station (in.)	Percent fuselage radius	Angle of attack, degrees: 6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface
10	8.7	-0.024	0.107	-0.018	0.135	-0.034	0.167	-0.024	0.195
	42.3	-.024	.094	-.018	.116	-.048	.132	-.053	.150
	78.7	-.004	.078	-.031	.067	-.059	.064	-.073	.064
15	8.7	-.008	.078	-.079	.064	-.055	.122	-.080	.150
	42.3	-.008	.060	-.063	.067	-.061	.088	-.071	.122
	78.7	-.008	.087	-.025	.087	-.071	.094	-.098	.087
20	8.7	-.040	.039	-.049	.067	-.023	.088	-.053	.117
	42.3	-.040	.027	-.055	.039	-.071	.094	-.037	.078
	78.7	-.053	.002	-.067	0	-.089	-.009	-.096	-.024
25	8.7	-.044	.027	-.003	.049	-.054	.078	-.047	.102
	42.3	-.055	.015	-.005	.027	-.077	.065	-.077	.024
	78.7	-.055	-.007	-.071	-.012	-.089	-.016	-.002	-.016
28.50	8.7	-.087	.053	-.055	.056	-.051	.088	-.047	.113
	42.3	-.055	.022	-.055	.051	-.073	.045	-.077	.064
	78.7	-.053	-.024	-.057	-.006	-.087	-.013	-.090	-.036
31.50	8.7	-.053	.033	-.061	.067	-.073	.094	-.059	.125
	42.3	-.053	.022	-.067	.043	-.081	.057	-.087	.076
	78.7	-.059	.003	-.082	.004	-.089	.008	-.094	.005
34.50	8.7	-.061	.064	-.080	.088	-.089	.131	-.096	.163
	42.3	-.065	.049	-.092	.076	-.114	.084	-.128	.121
	78.7	-.065	.029	-.092	.039	-.114	.070	-.128	.058
38.00	8.7	-.134	.088	-.202	.149	-.186	.244	-.269	.305
	42.3	-.140	.094	-.233	.132	-.303	.187	-.333	.193
	78.7	-.181	.123	-.288	.159	-.370	.186	-.408	.211
41.50	8.7	-.238	.097	-.291	.141	-.364	.180	-.390	.221
	42.3	-.237	.094	-.330	.141	-.369	.180	-.439	.211
	78.7	-.266	.113	-.398	.165	-.499	.216	-.541	.248
44.50	8.7	-.257	.064	-.306	.110	-.381	.145	-.415	.174
	42.3	-.295	.066	-.337	.110	-.439	.145	-.494	.174
	78.7	-.289	.088	-.375	.106	-.478	.145	-.532	.174
47.50	8.7	-.206	.046	-.248	.080	-.329	.106	-.347	.135
	42.3	-.136	.036	-.329	.071	-.360	.101	-.317	.125
	78.7	-.237	.027	-.330	.067	-.359	.094	-.388	.115
50.50	8.7	-.154	.039	-.190	.067	-.248	.072	-.286	.088
	42.3	-.157	.021	-.206	.037	-.265	.042	-.366	.064
	78.7	-.263	-.001	-.314	.002	-.358	.033	-.347	.043
53.50	8.7	- - -	.023	- - -	.001	- - -	.033	- - -	.036
	42.3	-.059	.009	-.189	.002	-.187	.001	-.241	.001
	78.7	-.097	.009	-.116	.015	-.163	.009	-.206	.008
56.50	8.7	-.003	.001	-.009	.012	-.133	.001	-.002	-.002
	42.3	.008	.001	.009	.001	-.136	-.024	-.186	-.002
	78.7	-.046	-.001	-.054	0	-.107	-.005	-.138	-.030
59.50	8.7	-.047	.001	-.059	0	-.085	-.010	-.096	-.008
	42.3	-.044	-.010	-.050	-.002	-.097	-.003	-.118	-.008
	78.7	-.042	-.003	-.049	-.005	-.088	-.048	-.148	-.003

NACA

TABLE III.– CONTINUED

(e) M,0.80.

Station (in.)	Percent fuselage radius	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface
		Angle of attack, deg													
10	8.7 42.3 70.7	0.071 .065 .054	0.006 .006 .002	0.051 .048 .042	0.006 .008 .008	0.040 .040 .040	0.031 .032 .028	0.025 .025 .031	0.053 .050 .042	0.010 .010 .018	0.078 .072 .055	-0.017 .017 .017	0.093 .088 .073	-0.080 -.083 -.089	0.127 .104 .064
15	8.7 42.3 70.7	.036 .025 .014	-.021 -.026 -.024	.014 .014 .005	-.021 -.026 -.026	.006 0 0	0 -.006 -.006	-.009 -.009 -.003	.019 .008 .008	-.030 -.030 -.018	.044 .027 .016	-.043 -.043 -.043	.059 .036 .014	-.043 -.049 -.054	.087 .059 .083
20	8.7 42.3 70.7	.008 .004 -.021	-.041 -.041 -.043	-.009 -.017 -.026	-.043 -.043 -.043	-.017 -.023 -.028	-.025 -.028 -.028	-.026 -.029 -.032	-.007 -.015 -.018	-.038 -.038 -.038	.014 .005 -.012	-.054 -.054 -.066	.025 .014 -.015	-.078 -.080 -.071	.053 .031 -.007
25	8.7 42.3 70.7	-.003 -.018 -.026	-.047 -.047 -.049	-.021 -.032 -.047	-.052 -.052 -.052	-.028 -.036 -.036	-.036 -.036 -.037	-.035 -.037 -.037	-.018 -.020 -.026	-.044 -.046 -.050	-.001 -.007 -.020	-.058 -.066 -.069	.014 .002 -.020	-.058 -.066 -.071	.042 .019 -.015
28.50	8.7 42.3 70.7	-.008 -.015 -.021	-.043 -.043 -.049	-.021 -.026 -.032	-.043 -.047 -.055	-.028 -.032 -.032	-.028 -.028 -.037	-.037 -.037 -.037	-.015 -.015 -.026	-.044 -.046 -.046	.007 -.001 -.018	-.058 -.060 -.066	.019 .014 -.020	-.052 -.060 -.071	.045 .031 -.015
31.50	8.7 42.3 70.7	-.005 -.009 -.021	-.043 -.043 -.043	-.021 -.024 -.032	-.052 -.052 -.049	-.028 -.028 -.034	-.034 -.034 -.028	-.037 -.037 -.037	-.015 -.018 -.018	-.046 -.046 -.046	.007 -.008 -.012	-.064 -.066 -.072	.025 .005 -.009	-.060 -.066 -.071	.053 .031 0
34.50	8.7 42.3 70.7	.028 .019 .006	-.049 -.038 -.032	.002 .002 -.007	-.043 -.043 -.038	-.011 -.017 -.027	-.017 -.017 -.027	-.006 -.006 -.006	.002 .002 -.003	-.044 -.044 -.044	.033 .027 .016	-.069 -.072 -.092	.051 .036 .019	-.071 -.077 -.082	.087 .068 .036
38.00	8.7 42.3 70.7	.036 .031 .065	-.095 -.100 -.100	.002 -.001 .036	-.078 -.078 -.066	-.028 -.034 0	-.034 -.028 -.006	-.058 -.066 -.043	.002 .010 .036	.014 -.001 -.106	.044 .055 .064	-.160 -.179 -.196	.082 .087 .114	-.088 -.229 -.263	.024 .014 .155
41.50	8.7 42.3 70.7	.027 .034 .036	-.136 -.174 -.203	-.009 -.009 -.009	-.129 -.146 -.161	-.051 -.057 -.052	-.062 -.074 -.083	-.099 -.105 -.128	-.015 -.018 -.025	-.165 -.188 -.213	.044 .044 .055	-.273 -.281 -.313	.082 .082 .104	-.337 -.376 -.444	.138 .138 .148
44.50	8.7 42.3 70.7	.105 .105 .097	-.198 -.201 -.248	-.049 -.049 -.060	-.163 -.169 -.203	-.094 -.098 -.116	-.096 -.102 -.127	-.139 -.150 -.187	-.046 -.049 -.071	-.205 -.216 -.247	.018 .010 -.001	-.293 -.310 -.358	.358 .350 .048	-.388 -.416 -.482	.098 .098 .098
47.50	8.7 42.3 70.7	-.021 .014 -.041	-.072 -.072 -.220	-.052 -.015 -.078	-.157 -.169 -.159	-.052 -.065 -.108	-.096 -.108 -.125	-.025 -.071 -.162	-.054 -.060 -.077	-.182 -.180 -.219	-.007 -.012 -.024	-.244 -.179 -.293	.025 .022 .010	-.266 -.288 -.348	.078 .064 .095
50.50	8.7 42.3 70.7	-.052 -.052 -.047	-.112 -.158 -.157	-.066 -.066 -.078	-.100 -.135 -.146	-.092 -.093 -.096	-.062 -.096 -.108	-.116 -.116 -.129	-.035 -.046 -.071	-.148 -.148 -.160	.002 -.027 -.035	-.187 -.192 -.197	.049 -.005 -.020	-.195 -.212 -.218	.053 .031 .016
53.50	8.7 42.3 70.7	--- -.021 -.021	-.069 -.069 -.078	--- -.043 -.040	-.089 -.086 -.078	--- -.011 -.048	-.059 -.059 -.052	--- -.071 .060	-.037 -.037 -.037	--- -.046 -.049	-.012 -.012 -.012	--- -.111 -.108	.002 -.006 -.009	--- -.120 -.105	.025 .019 .018
56.50	8.7 42.3 70.7	-.146 -.146 -.016	-.060 -.060 -.050	-.049 -.043 -.032	-.066 -.066 -.058	-.051 -.051 -.038	-.044 -.043 -.035	-.060 -.054 -.033	-.032 -.032 -.027	-.061 -.065 -.066	-.016 -.015 -.001	-.068 -.077 -.078	-.008 -.015 -.017	-.062 -.062 -.075	.011 .003 0
59.50	8.7 42.3 70.7	-.023 -.023 -.027	-.044 -.043 -.047	-.042 -.042 -.042	-.055 -.055 -.055	-.035 -.035 -.035	-.034 -.035 -.047	-.041 -.036 -.035	-.028 -.027 -.036	-.049 -.048 -.044	-.015 -.023 -.034	-.058 -.058 -.051	-.014 -.017 -.029	-.055 -.054 -.052	.002 -.009 -.022

(f) M,0.82.

Station (in.)	Percent fuselage radius	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface
		Angle of attack, deg													
10	8.7 42.3 70.7	0.089 .083 .078	0.018 .021 .018	0.064 .058 .053	0.021 .021 .021	0.044 .044 .042	0.036 .036 .031	0.025 .025 .029	0.047 .047 .042	0.003 .003 .003	0.070 .059 .048	0 0 0	0.113 .097 .069	-0.024 .024 -.030	0.120 .100 .079
15	8.7 42.3 70.7	.050 .045 .032	-.008 -.010 -.010	.029 .025 .014	-.013 -.019 -.015	.009 .009 .009	.003 -.002 -.002	-.008 -.008 -.008	.013 .007 .003	-.030 -.030 -.024	.031 .014 .003	-.030 -.030 -.030	.069 .051 .025	-.047 -.052 -.058	.078 .048 .017
20	8.7 42.3 70.7	.025 .018 -.001	-.026 -.026 -.026	0 -.004 -.015	-.030 -.033 -.037	-.018 -.013 -.019	-.019 -.019 -.024	-.030 -.030 -.030	-.008 -.013 -.019	-.047 -.047 -.052	.003 -.008 -.019	-.041 -.041 -.052	.042 .025 0	-.058 -.063 -.074	.048 .025 -.013
25	8.7 42.3 70.7	.012 -.001 .100	-.032 -.032 -.037	-.011 -.024 -.030	-.041 -.041 -.041	-.024 -.030 -.030	-.030 -.030 -.030	-.035 -.040 -.040	-.022 -.024 -.030	-.052 -.058 -.058	-.011 -.019 -.030	-.041 -.052 -.055	.025 .004 -.008	-.058 -.067 -.080	.031 .014 -.019
28.50	8.7 42.3 70.7	.012 .007 -.004	-.026 -.026 .037	-.013 -.019 -.024	-.035 -.041 -.041	-.024 -.027 -.027	-.027 -.027 -.038	-.035 -.035 -.035	-.019 -.019 -.030	-.052 -.052 -.058	-.004 -.011 -.030	-.041 -.046 -.052	.036 .020 -.008	-.058 -.063 -.074	.039 .014 -.019
31.50	8.7 42.3 70.7	.014 .007 -.008	-.026 -.026 -.026	-.013 -.013 -.024	-.041 -.041 -.037	-.027 -.027 -.030	-.038 -.030 -.027	-.041 -.041 -.041	-.019 -.019 -.019	-.052 -.058 -.055	-.008 -.013 -.019	-.048 -.048 -.057	.036 .025 .008	-.063 -.061 -.074	.044 .025 -.009
34.50	8.7 42.3 70.7	.039 .033 .025	-.032 -.026 -.026	.014 .011 .003	-.030 -.030 -.030	-.002 -.008 -.008	-.019 -.019 -.013	-.024 -.024 -.024	.003 -.002 -.002	-.052 -.052 -.047	.020 .014 .005	-.052 -.052 -.052	.069 .058 .036	-.069 -.074 -.074	.082 .059 .031
38.00	8.7 42.3 70.7	.056 .051 .069	-.081 -.054 -.069	.014 .014 .047	-.068 -.063 -.057	-.019 -.024 .009	-.030 -.024 -.008	-.052 -.063 -.030	.003 .009 .036	-.108 -.122 -.111	.037 .048 .075	-.143 -.165 -.184	.102 .104 .135	-.191 -.218 -.246	.120 .120 .147
41.50	8.7 42.3 70.7	.058 .050 .061	-.048 -.169 -.202	.003 .003 .003	-.123 -.140 -.156	-.046 -.052 -.057	-.068 -.074 -.085	-.096 -.207 -.043	-.019 -.024 -.024	-.174 -.191 -.224	.031 .031 .042	-.253 -.279 -.332	.102 .102 .124	-.340 -.379 -.443	.125 .125 .153
44.50	8.7 42.3 70.7	.012 .007 .007	-.191 -.202 -.245	-.041 -.041 -.052	-.168 -.169 -.200	-.090 -.096 -.118	-.101 -.107 -.015	-.140 -.151 -.173	-.052 -.055 -.074	-.224 -.182 -.285	.003 0 -.013	-.304 -.326 -.367	.069 .069 .062	-.418 -.448 -.484	.092 .092 .092
47.50	8.7 42.3 70.7	.001 .034 .021	-.180 -.185 -.218	-.041 -.008 -.074	-.157 -.167 -.184	-.065 -.041 -.128	-.107 -.118 -.129	-.134 -.079 -.169	-.063 -.074 -.065	-.200 -.137 -.241	-.019 0 -.041	-.249 -.184 -.304	.042 .036 .025	-.344 -.374 -.429	.059 .053 .048
50.50	8.7 42.3 70.7	-.015 -.015 -.026	-.103 -.141 -.147	-.055 -.055 -.068	-.096 -.134 -.140	-.085 -.085 -.088	-.063 -.096 -.107	-.118 -.118 -.129	-.041 -.074 -.085	-.165 -.163 -.174	-.031 -.041 -.052	-.154 -.154 -.195	.036 .014 0	-.218 -.229 -.233	.048 .027 .003
53.50	8.7 42.3 70.7	--- -.004 -.004	-.076 -.076 -.065	--- -.033 -.030	-.079 -.079 -.063	--- -.052 -.044	-.057 -.057 -.048	--- -.048 -.063	-.041 -.041 -.037	--- -.096 -.085	-.024 -.030 -.038	--- -.101 -.085	.014 .011 .009	--- -.124 -.108	.014 .021 .003
56.50	8.7 42.3 70.7	-.025 -.025 .003	-.049 -.041 -.035	-.041 -.035 -.025	-.061 -.060 -.050	-.048 -.041 -.030	-.050 -.046 -.041	-.059 -.057 -.041	-.041 -.041 -.035	-.078 -.074 -.067	-.019 -.019 -.019	-.068 -.066 -.050	.001 -.002 -.007	-.085 -.085 -.082	0 -.005 -.012
59.50	8.7 42.3 70.7	-.007 -.007 -.018	-.028 -.028 -.022	-.032 -.030 -.032	-.049 -.047 -.050	-.037 -.039 -.039	-.039 -.040 -.046	-.050 -.045 -.047	-.031 -.037 -.044	-.051 -.046 -.046	-.019 -.025 -.030	-.050 -.044 -.042	-.007 -.009 -.019	-.058 -.058 -.005	-.005 -.014 -.025

NACA

TABLE III.– CONTINUED

(g) M,0.84.

Station (in.)	Percent fuselage radius	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
		Angle of attack, degrees											
10	8.7	0.047	-0.007	0.060	0.017	0.049	0.049	0.022	0.060	0.006	0.062	-0.015	0.098
	42.3	.062	-.003	.062	.023	.049	.049	.022	.075	.012	.075	-.015	.082
	70.7	.046	-.007	.055	.025	.049	.044	.022	.049	.022	.055	-.015	.088
15	8.7	.024	-.034	.023	-.015	.014	.024	-.020	.023	-.023	.041	-.044	.058
	42.3	.021	-.039	.023	-.015	.014	.006	-.010	.012	-.023	.028	-.044	.036
	70.7	.008	-.036	.017	-.025	.024	.010	-.004	.009	-.031	.017	-.047	.024
20	8.7	-.003	-.052	-.004	-.033	-.018	-.010	-.026	-.004	-.042	.012	-.058	.008
	42.3	-.009	-.052	-.004	-.037	-.010	-.020	-.026	-.018	-.042	.004	-.058	.010
	70.7	-.030	-.057	-.015	-.037	-.025	-.015	-.031	-.025	-.045	-.015	-.069	-.015
25	8.7	-.014	-.062	-.015	-.044	-.018	-.020	-.037	-.018	-.047	-.004	-.058	.018
	42.3	-.038	-.062	-.026	-.042	-.026	-.020	-.042	-.038	-.047	-.010	-.069	-.008
	70.7	-.036	-.065	-.026	-.042	-.026	-.020	-.042	-.026	-.047	-.020	-.074	-.026
28.50	8.7	-.012	-.058	-.015	-.037	-.020	-.015	-.037	-.015	-.047	.006	-.058	.017
	42.3	-.020	-.055	-.028	-.037	-.028	-.015	-.037	-.015	-.047	-.004	-.064	.004
	70.7	-.034	-.065	-.026	-.044	-.026	-.023	-.037	-.026	-.047	-.020	-.069	-.024
31.50	8.7	-.009	-.057	-.015	-.037	-.020	-.015	-.037	-.015	-.047	.006	-.058	.023
	42.3	-.020	-.057	-.015	-.040	-.028	-.015	-.037	-.015	-.047	-.004	-.058	.004
	70.7	-.036	-.057	-.026	-.037	-.028	-.015	-.037	-.015	-.047	-.013	-.069	-.025
34.50	8.7	.013	-.057	.014	-.069	.006	-.004	-.024	.006	-.057	.031	-.058	.052
	42.3	.013	-.052	.006	-.086	.001	.001	-.024	.006	-.057	.003	-.058	.039
	70.7	.022	-.049	.006	-.064	.001	.006	-.024	.004	-.057	.017	-.058	.023
38.00	8.7	.035	-.109	.014	-.069	-.015	-.015	-.058	.017	-.101	.058	-.155	.085
	42.3	.029	-.109	.028	-.058	-.020	-.004	-.069	.023	-.112	.052	-.177	.093
	70.7	.067	-.117	.049	-.047	.024	.027	-.042	.049	-.124	.058	-.184	.125
41.50	8.7	.029	-.193	.001	-.122	-.047	-.047	-.112	-.008	-.179	.038	-.274	.087
	42.3	.035	-.198	-.001	-.133	-.053	-.055	-.119	-.018	-.198	.039	-.301	.093
	70.7	.040	-.236	-.001	-.155	-.063	-.065	-.139	-.004	-.230	.040	-.355	.111
44.50	8.7	-.009	-.242	-.047	-.165	-.096	-.085	-.160	-.045	-.241	.009	-.357	.058
	42.3	-.014	-.252	-.047	-.176	-.101	-.090	-.171	-.047	-.257	.009	-.376	.050
	70.7	-.020	-.296	-.058	-.206	-.115	-.112	-.192	-.066	-.284	-.004	-.411	.058
47.50	8.7	-.038	-.289	-.053	-.160	-.093	-.090	-.155	-.058	-.219	-.101	-.333	.088
	42.3	.008	-.236	-.025	-.176	-.047	-.101	-.096	-.044	-.152	-.015	-.361	.020
	70.7	-.092	-.269	-.079	-.198	-.128	-.119	-.192	-.075	-.262	-.026	-.407	.012
50.50	8.7	-.047	-.144	-.066	-.102	-.090	-.093	-.133	-.037	-.165	-.004	-.088	.017
	42.3	-.047	-.152	-.066	-.130	-.090	-.090	-.133	-.069	-.171	-.033	-.088	-.004
	70.7	-.063	-.190	-.075	-.149	-.101	-.101	-.144	-.075	-.179	-.047	-.231	-.020
53.50	8.7	---	-.106	---	-.079	---	-.047	---	-.037	---	-.015	---	-.004
	42.3	-.036	-.106	-.037	-.079	-.047	-.047	-.074	-.037	-.090	-.020	-.118	-.004
	70.7	-.036	-.095	-.037	-.069	-.037	-.042	-.048	-.037	-.079	-.020	-.101	-.004
56.50	8.7	-.041	-.093	-.037	-.116	-.042	-.042	-.058	-.025	-.069	-.026	-.063	-.004
	42.3	-.041	-.089	-.037	-.111	-.042	-.037	-.058	-.025	-.066	-.026	-.060	-.010
	70.7	-.048	-.082	-.040	-.107	-.027	-.031	-.054	-.025	-.047	-.026	-.053	-.014
59.50	8.7	-.058	-.072	-.086	-.097	-.035	-.030	-.035	-.022	-.048	-.004	-.047	-.008
	42.3	-.050	-.072	-.086	-.097	-.034	-.033	-.035	-.023	-.047	-.026	-.047	-.015
	70.7	-.056	-.072	-.066	-.097	-.034	-.035	-.035	-.029	-.047	-.037	-.047	-.026

(h) M,0.86.

Station (in.)	Percent fuselage radius	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
		Angle of attack, degrees											
10	8.7	0.063	0.009	0.055	0.014	0.048	0.043	0.038	0.093	0.017	0.061	0.006	0.115
	42.3	.076	.009	.065	.027	.048	.043	.035	.055	.027	.074	.006	.108
	70.7	.042	.009	.047	.014	.048	.043	.037	.044	.022	.054	.006	.074
15	8.7	.041	-.008	.014	-.008	.011	.011	.001	.002	.007	.043	-.015	.074
	42.3	.033	.002	.014	-.018	.011	.001	.001	.011	.007	.027	-.015	.053
	70.7	.023	.002	.008	-.018	.011	.003	.001	.011	-.015	.017	-.015	.032
20	8.7	.009	-.040	-.008	-.039	-.009	-.015	-.023	-.009	-.035	.021	-.038	.041
	42.3	.002	-.040	-.018	-.039	-.015	-.008	-.023	-.009	-.035	.001	-.041	.017
	70.7	-.022	-.052	-.028	-.044	-.020	-.025	-.027	-.020	-.041	-.015	-.046	.001
25	8.7	-.001	-.043	-.023	-.039	-.025	-.027	-.030	-.028	-.041	-.002	-.041	.029
	42.3	-.015	-.043	-.033	-.038	-.030	-.027	-.035	-.020	-.046	-.009	-.046	.011
	70.7	-.022	-.046	-.036	-.039	-.030	-.030	-.035	-.025	-.046	-.020	-.051	-.009
28.50	8.7	-.001	-.040	-.023	-.044	-.023	-.020	-.030	-.012	-.041	.001	-.035	.032
	42.3	-.012	-.046	-.028	-.044	-.025	-.020	-.033	-.017	-.041	-.006	-.041	.022
	70.7	-.022	.044	-.033	-.049	-.025	-.030	-.033	-.027	-.041	-.020	-.048	-.009
32.50	8.7	-.001	-.043	-.023	-.044	-.023	-.023	-.033	-.015	-.041	.001	-.038	.040
	42.3	-.004	-.043	-.026	-.044	-.023	-.025	-.033	-.020	-.041	-.004	-.041	.022
	70.7	-.019	-.043	-.033	-.044	-.023	-.025	-.033	-.020	-.041	-.009	-.046	.006
34.50	8.7	.031	-.040	.003	-.033	.001	-.009	-.022	.006	-.030	.032	-.035	.072
	42.3	.031	-.036	.003	-.028	-.004	-.009	-.025	-.004	-.030	.022	-.035	.058
	70.7	.013	-.033	-.007	-.026	-.004	-.004	-.025	.001	-.030	.017	-.035	.043
38.00	8.7	.052	-.091	.008	-.063	-.012	-.019	-.041	.011	-.087	.055	-.072	.105
	42.3	.046	-.091	.008	-.060	-.020	-.009	-.051	.017	-.092	.058	-.144	.110
	70.7	.083	-.093	.045	-.047	.014	.011	-.029	.043	-.094	.108	-.190	.147
41.50	8.7	.041	-.180	-.013	-.128	-.048	-.056	-.095	-.017	-.144	.043	-.248	.105
	42.3	.046	-.191	-.013	-.138	-.051	-.061	-.103	-.020	-.183	.043	-.269	.105
	70.7	.059	-.230	-.013	-.154	-.062	-.082	-.113	-.022	-.219	.059	-.321	.126
44.50	8.7	-.001	-.238	-.068	-.175	-.100	-.098	-.150	-.056	-.238	.006	-.337	.069
	42.3	-.001	-.252	-.069	-.185	-.106	-.103	-.155	-.061	-.243	.006	-.352	.069
	70.7	-.022	-.288	-.075	-.217	-.124	-.129	-.176	.060	-.277	-.009	-.384	.063
47.50	8.7	-.019	-.243	-.070	-.180	-.103	-.108	-.150	-.072	-.233	.015	-.366	.043
	42.3	.027	-.248	-.023	-.194	-.096	-.119	-.093	-.068	-.163	-.025	-.280	.039
	70.7	-.043	-.288	-.300	-.227	-.137	-.139	-.186	-.098	-.290	-.035	-.425	.022
50.50	8.7	-.036	-.138	-.081	-.117	-.098	-.087	-.129	-.046	-.170	-.009	-.238	.032
	42.3	-.038	-.180	-.081	-.154	-.108	-.103	-.130	-.079	-.176	-.041	-.248	.006
	70.7	-.048	-.180	-.101	-.164	-.113	-.113	-.139	-.089	-.189	-.051	-.248	-.009
53.50	8.7	---	-.096	---	-.089	---	-.054	---	-.041	---	-.022	---	.014
	42.3	-.022	-.093	-.049	-.086	-.071	-.054	-.067	-.041	-.087	-.020	-.103	.011
	70.7	-.020	-.078	-.046	-.070	-.041	-.046	-.079	-.037	-.075	-.028	-.088	.006
56.50	8.7	-.025	-.042	-.049	-.062	-.046	-.021	-.039	-.005	-.067	-.042	-.064	-.039
	42.3	-.025	-.059	-.049	-.060	-.041	-.022	-.051	-.008	-.062	-.041	-.062	-.039
	70.7	-.010	-.050	-.049	-.052	-.049	-.022	-.041	-.009	-.027	-.038	-.059	-.048
59.50	8.7	-.021	-.041	-.039	-.048	-.048	-.018	-.047	-.004	-.032	-.031	-.042	-.029
	42.3	-.021	-.041	-.039	-.049	-.041	-.021	-.041	-.007	-.032	-.032	-.041	-.037
	70.7	-.026	-.042	-.039	-.049	-.041	-.030	-.039	-.020	-.032	-.041	-.041	-.046

NACA

TABLE III.– CONTINUED

(i) M,0.88.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
10	8.7	0.090	0.081	0.074	0.088	0.041	0.031	0.080	0.046	0.014	0.061	-0.005	0.138
	42.3	.088	.081	.069	.088	.041	.031	.046	.046	.014	.078	-.005	.090
	70.7	.072	.081	.064	.088	.041	.029	.046	.036	.014	.060	-.005	.067
15	8.7	.047	-.009	.088	-.008	.002	-.008	-.015	.025	-.018	.046	-.036	.047
	42.3	.042	-.014	.086	-.012	.002	-.008	-.015	.002	-.018	.030	-.036	.041
	70.7	.039	-.014	.023	-.005	.002	-.008	-.010	.002	-.018	.019	-.036	.040
20	8.7	.021	-.030	.003	-.027	-.020	-.033	-.036	-.013	-.039	.014	-.044	.031
	42.3	.011	-.030	-.008	-.027	-.026	-.033	-.036	-.008	-.042	.004	-.053	.015
	70.7	-.004	-.035	-.012	-.033	-.033	-.036	-.036	-.031	-.042	-.011	-.044	-.015
25	8.7	.006	-.037	-.007	-.038	-.036	-.041	-.046	-.032	-.042	.030	-.031	.015
	42.3	-.006	-.037	-.008	-.038	-.041	-.041	-.051	-.031	-.038	-.011	-.041	.005
	70.7	-.014	-.048	-.008	-.038	-.041	-.041	-.051	-.036	-.052	-.021	-.041	-.008
28.50	8.7	.006	-.030	-.007	-.033	-.036	-.036	-.046	-.006	-.042	.002	-.046	.008
	42.3	-.004	-.030	-.012	-.033	-.036	-.036	-.046	-.026	-.042	-.004	-.051	.005
	70.7	-.012	-.040	-.008	-.038	-.036	-.041	-.046	-.036	-.047	-.021	-.056	-.015
31.50	8.7	.006	-.030	-.007	-.033	-.036	-.036	-.046	-.004	-.042	.004	-.046	.008
	42.3	.001	-.030	-.012	-.033	-.036	-.036	-.046	-.026	-.042	-.001	-.046	.015
	70.7	-.009	-.030	-.024	-.009	-.036	-.036	-.046	-.026	-.045	-.011	-.056	-.005
34.50	8.7	.039	-.030	.021	-.028	-.010	-.008	-.006	-.005	-.032	.035	-.036	.044
	42.3	.035	-.019	.008	-.017	-.010	-.015	-.006	-.005	-.032	.029	-.036	.046
	70.7	.021	-.019	.008	-.012	-.010	-.015	-.006	-.005	-.032	.019	-.036	.009
38.00	8.7	.042	-.073	.028	-.090	-.019	-.059	-.056	.005	-.083	.040	-.118	.097
	42.3	.057	-.073	.028	-.043	-.023	-.080	-.061	.015	-.092	.071	-.138	.107
	70.7	.098	-.073	.066	-.033	.005	0	-.036	.046	-.085	.101	-.143	.138
41.50	8.7	.052	-.169	.008	-.119	-.053	-.074	-.061	-.013	-.173	.090	-.292	.097
	42.3	.057	-.183	.008	-.131	-.058	-.084	-.121	-.008	-.190	.05[illegible]	-.275	.097
	70.7	.060	-.020	.008	-.149	-.064	-.087	-.138	-.080	-.201	.060	-.303	.138
44.50	8.7	.006	-.237	-.041	-.180	-.111	-.128	-.154	-.068	-.252	.009	-.341	.054
	42.3	.001	-.249	-.042	-.190	-.118	-.133	-.198	-.067	-.262	.009	-.358	.056
	70.7	-.008	-.289	-.054	-.215	-.133	-.154	-.213	-.087	-.272	-.001	-.389	.046
47.50	8.7	-.009	-.288	-.052	-.303	-.123	-.138	-.195	-.082	-.290	-.046	-.389	.082
	42.3	.021	-.285	-.017	-.315	-.072	-.154	-.133	-.092	-.216	-.041	-.397	.019
	70.7	-.040	-.331	-.083	-.343	-.156	-.174	-.241	-.108	-.241	-.037	-.444	.005
50.50	8.7	-.033	-.162	-.062	-.171	-.116	-.097	-.167	-.067	-.289	-.041	-.420	.025
	42.3	-.035	-.203	-.073	-.192	-.121	-.108	-.166	-.082	-.231	-.048	-.435	.008
	70.7	-.050	-.204	-.063	-.171	-.131	-.136	-.174	-.084	-.236	-.058	-.454	-.015
53.50	8.7	---	-.081	---	-.078	---	-.072	---	-.073	---	-.081	---	-.005
	42.3	-.014	-.086	-.031	-.073	-.067	-.078	-.087	-.053	-.093	-.081	-.123	-.016
	70.7	-.012	-.070	-.079	-.065	-.056	-.061	-.072	-.046	-.085	-.081	-.124	-.015
56.50	8.7	-.002	-.049	-.036	-.033	-.059	-.052	-.070	-.055	-.067	-.013	-.074	-.040
	42.3	-.019	-.048	-.033	-.032	-.056	-.049	-.067	-.048	-.060	-.013	-.078	-.009
	70.7	-.034	-.039	-.033	-.009	-.003	-.038	-.016	-.043	-.035	-.043	-.040	-.004
59.50	8.7	-.039	-.032	-.040	-.002	-.013	-.031	-.049	-.042	-.040	-.011	-.037	0
	42.3	-.038	-.038	-.038	-.009	-.013	-.034	-.089	-.042	-.034	-.013	-.037	-.006
	70.7	-.038	-.046	-.037	-.033	-.014	-.034	-.033	-.043	-.055	-.003	-.039	-.016

(j) M,0.90.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
10	8.7	0.097	0.087	0.062	0.085	0.056	0.051	0.041	0.066	0.084	0.083	0.084	0.137
	42.3	.098	.027	.067	.085	.056	.051	.041	.066	.089	.089	.084	.138
	70.7	.077	.024	.055	.085	.056	.046	.046	.089	.029	.088	.084	.098
15	8.7	.097	-.008	.085	-.016	.017	.017	.007	.034	-.011	.034	-.006	.090
	42.3	.047	-.013	.018	-.015	.017	.007	.004	.002	-.011	.039	-.006	.073
	70.7	.037	-.013	.015	-.012	.017	.010	.007	.017	-.011	.029	-.006	.053
20	8.7	.024	-.008	-.010	-.035	-.010	-.013	-.080	.007	-.031	.019	-.019	.043
	42.3	.017	-.008	-.013	-.035	-.013	-.013	-.020	-.003	-.032	.009	-.016	.043
	70.7	0	-.033	-.022	-.035	-.013	-.018	-.023	-.005	-.036	-.008	-.024	.019
25	8.7	.007	-.033	-.020	-.045	-.020	-.023	-.030	-.013	-.036	.004	-.021	.043
	42.3	-.003	-.033	-.030	-.045	-.028	-.023	-.033	-.013	-.041	-.001	-.024	.036
	70.7	-.013	-.038	-.033	-.045	-.028	-.023	-.033	-.018	-.041	-.010	-.030	.049
28.50	8.7	.007	-.008	-.022	-.035	-.023	-.018	-.008	-.008	-.014	.009	-.014	.073
	42.3	.002	-.008	-.025	-.038	-.023	-.018	-.033	-.008	-.016	.006	-.021	.040
	70.7	-.008	-.036	-.035	-.045	-.023	-.023	-.033	-.018	-.018	-.011	-.024	.014
31.50	8.7	.007	-.025	-.020	-.035	-.023	-.018	-.008	-.005	-.031	.009	-.009	.036
	42.3	.007	-.023	-.025	-.035	-.023	-.018	-.008	-.020	-.031	.004	-.011	.043
	70.7	-.008	-.026	-.030	-.035	-.023	-.018	-.008	-.018	-.036	-.001	-.021	.004
34.50	8.7	.047	-.016	.010	-.008	.007	.002	-.003	-.017	-.012	.034	.004	.052
	42.3	.037	-.013	.005	-.000	.007	.002	-.003	-.017	-.012	.039	.004	.074
	70.7	.027	-.008	.005	-.015	.004	.007	-.003	-.017	-.012	.029	.001	.060
38.00	8.7	.047	-.063	.020	-.045	-.008	-.003	-.033	.032	-.048	.048	-.073	.138
	42.3	.064	-.063	.015	-.035	-.006	-.007	-.038	.041	-.075	.078	-.094	.155
	70.7	-.107	-.063	.055	-.085	.027	.027	-.013	.006	-.085	.098	-.104	.171
41.50	8.7	-.053	-.160	-.005	-.115	-.042	-.049	-.090	.007	-.160	.039	-.207	.125
	42.3	-.053	-.178	-.005	-.125	-.049	-.057	-.102	0	-.170	.039	-.238	.138
	70.7	-.067	-.197	-.005	-.140	-.035	-.062	-.121	.007	-.199	.048	-.226	.154
44.50	8.7	.007	-.230	-.005	-.182	-.112	-.109	-.171	-.042	-.239	.019	-.301	.083
	42.3	.004	-.247	-.006	-.188	-.115	-.112	-.181	-.047	-.252	.019	-.325	.083
	70.7	-.003	-.277	-.075	-.215	-.131	-.131	-.200	-.045	-.279	.002	-.345	.073
47.50	8.7	-.018	-.290	-.080	-.238	-.131	-.136	-.214	-.072	-.289	-.011	-.349	.043
	42.3	.122	-.298	-.035	-.245	-.077	-.108	-.141	-.082	-.209	-.002	-.354	.040
	70.7	-.043	-.332	-.115	-.270	-.171	-.148	-.250	-.087	-.338	-.036	-.399	.044
50.50	8.7	-.045	-.279	-.195	-.170	-.121	-.092	-.200	-.047	-.333	-.011	-.418	.033
	42.3	-.043	-.332	-.190	-.215	-.131	-.126	-.210	-.062	-.348	-.041	-.433	.004
	70.7	-.058	-.352	-.108	-.255	-.141	-.141	-.280	-.098	-.309	-.096	-.468	-.016
53.50	8.7	---	-.093	---	-.090	---	-.077	---	-.033	---	-.014	---	.034
	42.3	-.018	-.095	-.552	-.083	-.055	-.057	-.072	-.033	-.093	-.021	-.173	.004
	70.7	-.018	-.078	-.045	-.079	-.047	-.046	-.059	-.033	-.066	-.021	-.141	-.006
56.50	8.7	-.003	-.041	-.049	-.060	-.042	-.041	-.052	-.060	-.061	-.020	-.040	-.001
	42.3	-.018	-.039	-.045	-.056	-.042	-.040	-.047	-.066	-.051	-.020	-.035	0
	70.7	.002	-.030	-.028	-.049	-.021	-.038	-.025	-.060	-.062	-.007	-.030	-.002
59.50	8.7	-.005	-.020	-.025	-.030	-.031	-.021	-.035	-.020	-.030	-.022	-.020	.008
	42.3	-.005	-.020	-.023	-.047	-.031	-.031	-.030	-.020	-.022	-.025	-.019	.001
	70.7	-.009	-.020	-.058	-.049	-.031	-.026	-.030	-.038	-.022	-.020	-.017	-.016

NACA

TABLE III.– CONCLUDED

(k) M,0.92.

Station (in.)	Percent radius fuselage	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
10	8.7	0.115	0.048	0.070	0.031	0.067	0.065	0.059	0.082	0.033	0.109	0.089	0.135
	42.3	.108	.093	.078	.032	.068	.066	.054	.088	.037	.100	.078	.125
	70.7	.101	.048	.048	.031	.065	.037	.054	.073	.037	.080	.030	.096
15	8.7	.071	.019	.089	-.006	.088	.086	.025	.044	.003	.067	0	.091
	42.3	.067	.014	.033	-.008	.086	.017	.025	.034	.003	.051	-.008	.073
	70.7	.096	.016	.071	-.006	.086	.082	.018	.032	.003	.042	-.003	.080
20	8.7	.042	-.008	-.003	-.027	-.002	-.008	-.010	.015	-.019	.052	-.019	.088
	42.3	.034	-.002	-.004	-.027	-.002	-.004	-.022	.007	-.029	.082	-.009	.041
	70.7	.019	-.007	-.017	-.035	-.010	-.018	-.015	.008	-.006	.009	-.008	.019
25	8.7	.027	-.018	-.017	-.057	-.022	-.014	-.017	-.005	-.006	.066	-.019	.038
	42.3	.017	-.007	-.025	-.037	-.016	-.014	-.004	-.003	-.009	.013	-.008	.029
	70.7	.036	-.022	-.002	-.037	-.016	-.014	-.005	-.009	-.029	-.002	-.029	.018
28.50	8.7	.027	-.008	-.017	-.038	-.012	-.018	-.008	.005	-.019	.008	-.013	.046
	42.3	.022	-.008	-.019	-.038	-.014	-.018	-.008	.008	-.003	.016	-.014	.039
	70.7	.013	-.011	-.006	-.037	-.014	-.016	-.008	-.009	-.006	-.002	-.005	.038
31.50	8.7	.029	.014	-.086	-.027	-.021	-.007	-.015	.009	-.016	.004	-.004	.049
	42.3	.027	0	-.018	-.027	-.011	-.011	-.015	.004	-.016	.018	-.009	.039
	70.7	.016	0	-.025	-.027	-.014	-.010	-.025	.001	-.005	.008	-.017	.021
34.50	8.7	.066	.015	.021	-.005	.029	.017	.015	.031	.004	.058	.010	.067
	42.3	.077	.018	.017	-.008	.017	.017	.008	.088	.004	.049	.011	.077
	70.7	.046	.019	.012	-.007	.017	.017	.008	.036	.004	.048	.038	.058
38.00	8.7	.086	-.021	.051	-.029	.014	.016	-.014	.049	-.045	.087	-.058	.187
	42.3	.084	-.021	.085	-.082	.013	.036	-.017	.055	-.058	.099	-.071	.135
	70.7	.124	-.019	.070	-.009	.046	.046	.004	.088	-.045	.120	-.073	.169
41.50	8.7	.071	-.117	.004	-.108	-.089	-.094	-.076	.015	-.144	.073	-.188	.125
	42.3	.055	-.126	.004	-.119	-.081	-.041	-.082	.014	-.152	.074	-.205	.125
	70.7	.080	-.149	.004	-.126	-.041	-.042	-.104	.036	-.184	.068	-.245	.145
44.50	8.7	.016	-.082	-.087	-.173	-.098	-.098	-.153	-.040	-.225	.026	-.277	.077
	42.3	.013	-.098	-.059	-.181	-.106	-.102	-.162	-.043	-.234	.046	-.290	.077
	70.7	.008	-.135	-.074	-.205	-.119	-.125	-.179	-.058	-.258	.012	-.318	.068
47.50	8.7	-.012	-.248	-.091	-.238	-.234	-.147	-.200	-.075	-.273	-.014	-.387	.053
	42.3	.029	-.244	-.037	-.241	-.079	-.156	-.063	-.082	-.195	-.029	-.248	.029
	70.7	-.041	-.284	-.125	-.265	-.176	-.136	-.241	-.099	-.321	-.036	-.336	.050
50.50	8.7	-.071	-.265	-.118	-.249	-.166	-.118	-.256	-.058	-.346	-.016	-.395	.011
	42.3	-.042	-.381	-.125	-.301	-.136	-.167	-.266	-.061	-.326	-.048	-.413	-.002
	70.7	-.060	-.340	-.132	-.389	-.190	-.195	-.289	-.105	-.385	-.049	-.437	-.041
53.50	8.7	---	-.129	---	-.115	---	-.090	---	-.053	---	-.080	---	.013
	42.3	-.022	-.121	-.046	-.110	-.048	-.058	-.075	-.053	-.181	-.086	.089	-.080
	70.7	-.022	-.099	-.046	-.089	-.059	-.041	-.059	-.066	-.149	-.051	-.270	-.099
56.50	8.7	-.007	-.029	-.045	-.045	-.033	-.021	-.048	-.012	-.046	-.004	-.064	-.013
	42.3	-.004	-.025	-.057	-.030	-.029	-.021	-.033	-.007	-.044	-.004	-.064	-.014
	70.7	.005	-.018	-.016	-.033	-.006	-.016	-.007	-.008	-.024	-.004	.004	-.025
59.50	8.7	0	-.019	-.023	-.004	-.016	.008	-.028	.006	-.018	.006	-.004	.007
	42.3	0	-.028	-.023	-.032	-.014	-.032	-.018	-.002	-.008	-.001	-.004	-.004
	70.7	-.009	-.010	-.023	-.033	-.014	-.021	-.010	-.010	-.006	-.022	-.006	-.014

(l) M,0.94.

Station (in.)	Percent fuselage radius	Angle of attack, deg: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
10	8.7	0.152	0.085	0.093	0.058	0.093	0.089	0.090	0.118	0.045	0.116	0.057	0.168
	42.3	.145	.087	.093	.061	.095	.094	.098	.114	.048	.108	.058	.157
	70.7	.134	.064	.092	.058	.094	.087	.098	.105	.050	.088	.055	.127
15	8.7	.107	.052	.084	.022	.055	.053	.055	.057	.012	.058	.027	.123
	42.3	.101	.048	.047	.018	.054	.046	.055	.067	.010	.058	.024	.108
	70.7	.098	.058	.046	.019	.052	.047	.055	.067	.012	.050	.021	.085
20	8.7	.076	.030	.019	-.004	.024	.022	.027	.045	-.012	.059	.008	.090
	42.3	.048	.038	.027	-.005	.020	.019	.025	.042	-.015	.078	.008	.072
	70.7	.053	.022	.008	-.009	.018	.018	.021	.036	-.017	.012	-.001	.046
25	8.7	.060	.028	.006	-.018	.015	.008	.018	.028	-.016	.022	.009	.067
	42.3	.048	.022	-.003	-.016	.005	.009	.008	.028	-.025	.014	0	.056
	70.7	.040	.021	-.005	-.019	.007	.008	.009	.025	-.026	.005	-.004	.035
28.50	8.7	.059	.051	.004	-.048	.012	.018	.018	.056	-.015	.024	.017	.067
	42.3	.051	.048	-.001	-.009	.008	.017	.017	.034	-.026	.020	.010	.065
	70.7	.041	.029	-.003	-.025	.008	.006	.013	.027	-.028	.005	.005	.037
31.50	8.7	.062	.057	.008	-.002	.017	.018	.019	.037	-.007	.050	.007	.082
	42.3	.057	.035	.005	-.002	.027	.018	.020	.051	-.007	.002	.007	.066
	70.7	.049	.032	-.001	-.002	.021	.018	.018	.051	-.005	.022	.014	.048
34.50	8.7	.102	.052	.046	.019	.047	.045	.052	.111	.026	.061	.047	.114
	42.3	.094	.057	.040	.020	.046	.046	.047	.111	.018	.060	.047	.104
	70.7	.083	.059	.056	.025	.046	.047	.047	.138	.028	.050	.046	.080
38.00	8.7	.125	.028	.057	.006	.048	.047	.034	.086	-.025	.058	.062	.162
	42.3	.120	.022	.056	.014	.044	.037	.027	.093	-.034	.107	-.029	.169
	70.7	.169	.028	.054	.025	.021	.053	.053	.119	-.020	.137	-.033	.205
41.50	8.7	.113	-.072	.076	-.066	.024	-.001	-.029	.058	-.118	.080	-.144	.158
	42.3	.113	-.082	.076	-.076	-.002	-.008	-.037	.049	-.129	.058	-.168	.159
	70.7	.118	-.118	.079	-.092	-.008	-.010	-.049	.055	-.177	.090	-.207	.176
44.50	8.7	.059	-.147	-.058	-.133	-.070	-.067	-.103	-.006	-.199	.027	-.196	.109
	42.3	.048	-.158	-.041	-.148	-.076	-.067	-.112	-.008	-.219	.027	-.225	.105
	70.7	.040	-.185	-.051	-.154	-.089	-.090	-.130	-.024	-.252	.012	-.282	.097
47.50	8.7	.013	-.206	-.078	-.193	-.115	-.193	-.152	-.086	-.252	-.080	-.292	.074
	42.3	.030	-.212	-.088	-.203	-.093	-.138	-.085	-.066	-.173	-.031	-.305	.046
	70.7	-.025	-.249	-.114	-.217	-.151	-.151	-.192	-.083	-.236	-.045	-.342	.029
50.50	8.7	-.035	-.287	-.143	-.212	-.189	-.149	-.206	-.075	-.307	-.043	-.357	.080
	42.3	-.039	-.286	-.159	-.273	-.158	-.158	-.233	-.122	-.337	-.082	-.373	-.012
	70.7	-.057	-.306	-.138	-.302	-.217	-.206	-.285	-.149	-.360	-.302	-.405	-.078
53.50	8.7	---	-.235	---	-.247	---	-.132	---	-.058	---	-.047	---	-.019
	42.3	-.007	-.220	-.070	-.237	-.106	-.164	-.177	-.058	-.119	-.054	-.394	-.071
	70.7	-.021	-.132	-.067	-.187	-.088	-.076	-.125	-.032	-.357	-.063	-.339	-.068
56.50	8.7	.008	-.007	-.033	-.098	-.009	-.004	-.002	-.009	-.082	-.044	-.139	-.093
	42.3	.011	-.007	-.029	-.070	-.003	-.002	-.008	-.008	-.080	-.044	-.164	-.098
	70.7	.020	-.007	-.022	-.029	.011	.005	.003	0	-.071	-.045	-.041	-.058
59.50	8.7	.004	.063	-.011	.027	.006	.053	.008	.033	-.016	-.007	-.014	.006
	42.3	.004	.051	-.011	-.030	.009	.007	.005	.007	-.019	-.026	-.019	-.014
	70.7	.002	.031	-.011	-.012	.008	.005	.007	.005	-.021	-.053	-.023	-.032

NACA

TABLE IV.– PRESSURE COEFFICIENTS ON A FUSELAGE IN COMBINATION WITH A WING HAVING A SWEEPBACK ANGLE OF 45° AND AN ASPECT RATIO OF 6.

(a) M,0.40.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
10	8.7	0.074	0.003	0.068	0.013	0.039	0.034	0.008	0.038	0.010	0.008	0.003	0.026
	42.3	.068	.003	.098	.016	.039	.034	.029	.048	.010	.061	-.003	.048
	70.7	.061	.003	.045	.016	.034	.038	.029	.039	.018	.042	-.008	.058
15	8.7	.042	-.003	.029	-.006	.010	.006	.003	.019	-.003	.035	-.019	.054
	42.3	.035	-.003	.029	-.013	.010	.003	.003	.010	-.010	.019	-.019	.048
	70.7	.026	-.003	.019	-.018	.006	.003	0	.006	-.019	.006	-.026	.026
20	8.7	.003	-.003	.006	-.009	-.003	-.013	-.026	.003	-.029	.016	-.022	.045
	42.3	.016	-.003	.006	-.009	-.006	-.019	-.013	.003	-.029	.006	-.022	.035
	70.7	.003	-.003	-.003	-.029	-.013	-.003	-.026	-.026	-.029	.010	-.035	.010
25	8.7	.019	-.003	.003	-.029	-.019	-.003	-.029	-.003	-.035	.026	-.038	.042
	42.3	.006	-.003	0	-.029	-.029	-.006	-.029	-.013	-.035	.003	-.038	.029
	70.7	0	-.003	-.016	-.023	-.023	-.003	-.029	-.029	-.035	-.003	-.034	0
28.50	8.7	.019	-.035	.005	-.029	-.013	-.016	-.029	.003	-.035	.029	-.051	.048
	42.3	.006	-.035	-.003	-.029	-.013	-.019	-.026	.003	-.035	.003	-.051	.042
	70.7	.003	-.042	-.006	-.029	-.016	-.006	-.029	-.010	-.035	-.006	-.064	.020
31.50	8.7	.029	.061	.003	-.042	-.045	-.006	-.035	.029	-.039	.038	-.067	.054
	42.3	.013	.061	.003	-.035	-.043	-.029	-.058	-.023	-.035	.006	-.071	.042
	70.7	.010	-.048	.006	-.029	-.006	-.013	-.029	.006	-.039	.010	-.064	.048
34.50	8.7	.039	-.068	.019	-.058	-.010	-.006	-.032	.003	-.039	.029	-.068	.054
	42.3	.035	-.068	.013	-.058	-.013	-.006	-.039	.003	-.048	.019	-.089	.067
	70.7	.042	-.084	.010	-.058	-.013	-.019	-.058	.029	-.090	.038	-.135	.077
38.00	8.7	.029	-.068	-.003	-.074	-.032	-.035	-.068	-.006	-.094	.019	-.118	.074
	42.3	.019	-.068	-.019	-.084	-.048	-.035	-.087	-.018	-.118	.019	-.118	.074
	70.7	.035	-.119	.003	-.090	-.045	-.035	-.090	.003	-.126	.039	-.179	.090
41.50	8.7	.018	-.068	-.013	-.077	-.019	-.042	-.077	-.003	-.094	.006	-.118	.048
	42.3	.035	-.118	-.003	-.093	-.045	-.035	-.084	-.026	-.130	.003	-.164	.048
	70.7	.035	-.126	-.009	-.096	-.061	-.061	-.100	.009	-.126	.003	-.173	.048
44.50	8.7	.003	-.094	-.029	-.077	-.052	-.045	-.077	-.026	-.094	.003	-.119	.016
	42.3	-.003	-.094	-.029	-.087	-.052	-.052	-.077	-.026	-.094	.005	-.119	.026
	70.7	-.003	-.126	-.035	-.128	-.061	-.087	-.094	-.055	.203	-.083	-.181	-.013
47.50	8.7	.018	-.077	-.023	-.061	-.052	-.035	-.058	-.026	-.077	.005	-.087	.035
	42.3	.018	-.087	.006	-.061	-.013	-.042	-.029	-.026	-.035	-.003	-.094	.035
	70.7	-.003	-.087	-.003	-.061	-.058	-.048	-.042	-.026	-.087	-.006	-.089	.035
50.50	8.7	-.003	-.032	-.029	-.029	-.035	-.029	-.035	0	-.061	.006	-.077	.003
	42.3	-.003	-.062	-.023	-.062	-.032	-.032	-.058	-.029	-.061	-.023	-.077	.013
	70.7	-.013	-.058	-.023	-.052	-.032	-.032	-.045	-.029	-.061	-.029	-.087	.018
53.50	8.7	---	-.055	---	-.039	---	-.029	---	-.026	---	-.029	---	.016
	42.3	-.013	-.055	-.023	-.035	-.029	-.029	-.035	-.026	-.035	-.023	-.042	.016
	70.7	-.013	-.039	-.023	-.029	-.029	-.029	-.029	-.026	-.048	-.023	-.048	.003
56.50	8.7	-.003	-.029	-.029	-.032	-.029	-.029	-.035	-.029	-.045	-.010	-.045	-.003
	42.3	-.019	-.006	-.029	-.026	-.029	-.026	-.035	-.019	-.035	-.010	-.045	-.003
	70.7	-.013	-.006	-.006	-.030	-.019	-.026	-.026	-.026	-.013	-.023	-.026	-.010
59.50	8.7	-.010	-.019	-.013	-.018	-.013	-.019	-.016	-.026	-.016	-.003	-.023	.003
	42.3	-.010	-.019	-.006	-.016	-.013	-.019	-.013	-.026	-.016	-.003	-.023	.003
	70.7	-.019	-.026	-.018	-.003	-.019	-.029	-.019	-.019	-.016	-.023	-.023	-.026

Station (in.)	Percent fuselage radius	Angle of attack, degrees: 8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface	12, Upper surface	12, Lower surface	14, Upper surface	14, Lower surface	16, Upper surface	16, Lower surface	18, Upper surface	18, Lower surface
10	8.7	-0.003	0.135	-0.089	0.155	-0.035	0.177	-0.038	-0.205	-0.058	0.235	-0.086	0.268
	42.3	-.026	.100	-.089	.189	-.055	.135	-.068	-.139	-.087	.165	-.097	.171
	70.7	-.026	.064	-.058	.058	-.087	.064	-.113	-.039	-.126	.035	-.126	.083
15	8.7	.035	.087	-.045	.116	-.055	.141	-.061	.165	-.061	.197	-.061	.229
	42.3	.029	.071	-.061	.074	-.064	.100	-.054	.100	-.074	.138	-.139	.135
	70.7	.067	.029	-.045	.013	-.090	.013	-.126	.010	-.138	.003	-.126	0
20	8.7	.070	.071	-.061	.100	-.058	.116	-.061	.138	-.065	.168	-.065	.200
	42.3	-.058	.039	-.065	.058	-.090	.071	-.103	.077	-.126	.100	-.158	.119
	70.7	-.071	.005	-.094	.003	-.119	-.018	-.126	-.026	-.148	.003	-.158	-.029
25	8.7	-.058	.061	-.055	.054	-.071	.135	-.090	.132	-.094	.168	-.100	.197
	42.3	-.071	.039	-.090	.042	-.103	.071	-.139	.068	-.158	.160	-.190	.109
	70.7	-.084	-.018	-.106	-.023	-.128	-.023	-.119	-.029	-.158	-.029	-.187	-.038
28.50	8.7	-.068	.071	-.094	.100	-.093	.135	-.123	.145	-.126	.187	-.158	.229
	42.3	-.087	.039	-.106	.068	-.129	.077	-.181	.100	-.197	.061	-.229	.138
	70.7	-.090	.003	-.126	.003	-.154	-.003	-.184	-.026	-.190	-.029	-.223	-.029
31.50	8.7	.132	.071	-.126	.116	-.154	.135	-.190	.187	-.210	.208	-.258	.275
	42.3	-.116	.055	-.155	.074	-.190	.103	-.216	.129	-.287	.135	-.319	.165
	70.7	-.122	.039	-.187	.035	-.183	.035	-.255	.032	-.287	.032	-.319	.083
34.50	8.7	-.128	.103	-.126	.132	-.156	.167	-.248	.197	-.261	.229	.119	.277
	42.3	-.185	.087	-.219	.189	-.238	.151	-.348	.165	-.387	.197	-.448	.238
	70.7	-.208	.103	-.287	.138	-.086	.138	-.416	.148	-.462	.168	-.578	.130
38.00	8.7	-.180	.105	.103	.135	-.251	.183	-.287	.226	-.315	.256	-.345	.294
	42.3	-.215	.103	-.258	.135	-.226	.170	-.448	.200	-.508	.238	-.377	.268
	70.7	-.251	.135	-.326	.165	-.087	.203	-.448	.229	-.545	.268	-.448	.294
41.50	8.7	-.164	.080	-.197	.138	-.238	.167	.068	.197	-.289	.229	-.316	.258
	42.3	-.196	.074	-.258	.138	-.318	.151	-.413	.194	-.481	.213	-.574	.248
	70.7	-.225	.087	-.308	.138	-.026	.167	-.413	.207	-.445	.238	-.548	.261
44.50	8.7	-.154	.071	-.187	.108	-.180	.103	-.225	.168	-.232	.184	-.255	.206
	42.3	-.177	.064	-.226	.108	-.283	.105	-.358	.148	-.348	.213	-.348	.187
	70.7	-.186	.039	-.252	.074	-.203	.128	-.319	.132	-.358	.165	-.445	.187
47.50	8.7	-.109	.048	-.126	.077	-.119	.103	-.165	.132	-.158	.145	-.184	.165
	42.3	-.122	.042	-.139	.071	-.154	.103	-.202	.119	-.277	.138	-.328	.148
	70.7	-.138	.039	-.174	.048	-.186	.087	-.223	.149	-.277	.136	-.348	.165
50.50	8.7	-.090	.059	-.130	.068	-.128	.077	-.186	.106	-.139	.103	-.130	.132
	42.3	-.090	.019	-.126	.042	-.145	.068	-.167	.068	-.203	.077	-.184	.100
	70.7	-.090	.010	-.116	.035	-.182	.042	-.158	.042	-.190	.058	-.252	.066
53.50	8.7	---	.026	---	.035	---	.045	---	.068	---	.082	---	.097
	42.3	-.071	.010	-.094	.026	-.090	.038	-.100	.039	-.126	.056	-.171	.068
	70.7	-.058	.006	-.074	.013	-.090	.029	-.100	.029	-.129	.029	-.168	.029
56.50	8.7	-.058	.003	-.061	.035	-.064	.039	-.071	.039	-.097	.064	-.087	.068
	42.3	-.058	-.007	-.065	.033	-.064	.038	-.072	.029	-.097	.039	-.098	.061
	70.7	-.042	-.013	-.033	.013	-.048	.029	-.058	.033	-.064	.046	-.061	.019
59.50	8.7	-.039	.018	-.026	.033	-.058	.032	-.058	.029	-.035	.036	-.039	.048
	42.3	-.039	-.007	-.029	.033	-.052	-.039	-.048	.029	-.035	.026	-.039	.058
	70.7	-.039	-.039	-.033	-.026	-.058	-.026	-.058	-.029	-.026	-.026	-.029	-.029

NACA

TABLE IV.– CONTINUED

(b) M,0.60.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface	8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface
[illegible]	8.7	0.085	0.015	0.068	[illegible]	0.049	0.040	0.050	0.059	0.017	-0.020	0	0.128	-0.004	0.104	-0.019	0.128
	42.3	.080	.021	.064	.085	.055	.042	.031	.044	.025	-.010	0	.096	-.008	.090	-.028	.108
	70.7	.068	.023	.089	.085	.050	.040	.033	.050	.020	-.009	.002	.078	-.008	.069	-.007	.048
15	8.7	.058	-.007	.038	.004	.025	.016	.059	.033	.082	.090	-.030	.059	-.025	.071	-.048	.063
	42.3	.050	-.013	.032	-.008	.028	.022	.110	.085	.079	.041	-.033	.061	-.025	.080	-.047	.068
	70.7	.039	-.009	.004	.006	.060	.021	.023	.083	.068	.039	-.017	.041	-.031	.038	-.025	.083
20	8.7	.032	-.007	.068	.030	-.005	-.017	-.016	.007	-.007	.018	-.018	.078	-.008	.069	-.008	.080
	42.3	.025	-.008	.065	.009	-.009	-.017	-.010	.008	-.009	.010	-.018	.059	-.010	.059	-.006	.071
	70.7	.028	-.002	.054	.030	-.018	-.025	-.015	0	-.031	-.008	-.008	.038	-.021	.032	-.039	.033
25	8.7	.025	-.007	.054	.021	-.018	-.019	-.008	0	-.040	.010	-.008	.068	-.008	.064	-.008	.087
	42.3	.025	-.008	.048	.028	-.016	-.008	-.021	0	-.048	0	-.021	.051	-.021	.050	-.035	.078
	70.7	.008	-.029	.032	.028	-.025	-.021	-.021	-.016	-.046	-.016	-.028	.031	-.038	.038	-.046	.038
28.50	8.7	.019	-.046	0	-.009	-.008	-.008	-.001	.030	-.038	.050	-.043	.060	-.031	.105	-.046	.129
	42.3	.001	-.046	-.005	-.028	-.004	-.004	0	.031	-.037	.028	-.046	-.046	-.046	.080	-.064	.108
	70.7	-.009	-.046	-.009	-.006	-.009	-.009	0	.027	-.027	.024	-.046	.080	-.042	.098	-.080	.039
31.50	8.7	.017	-.067	.008	-.035	-.080	-.048	0	.038	-.041	.040	-.062	.059	-.068	.120	-.090	.148
	42.3	.018	-.058	.005	-.053	-.039	-.039	0	.052	-.046	.032	-.061	.068	-.069	.105	-.118	.121
	70.7	-.006	-.059	.006	-.064	-.008	-.048	.008	.058	-.037	.035	-.069	.058	-.075	.080	-.125	.096
34.50	8.7	.046	-.078	.080	-.046	.005	-.011	-.047	-.008	-.068	.039	-.097	.088	-.130	.118	-.175	.158
	42.3	.049	-.072	.039	-.047	0	-.006	-.057	-.008	-.068	.038	-.142	.089	-.157	.101	-.180	.137
	70.7	.059	-.062	.031	-.043	.018	.004	-.057	.019	-.079	.049	-.141	.100	-.088	.118	-.290	.150
38.00	8.7	.048	-.108	-.006	-.057	-.087	-.034	-.061	-.008	-.098	.085	-.138	.073	-.190	.108	-.246	.154
	42.3	.018	-.128	-.025	-.075	-.039	-.031	-.100	-.029	-.117	.086	-.167	.073	-.180	.104	-.300	.175
	70.7	.036	-.138	0	-.086	-.080	-.031	-.100	-.011	-.138	.090	-.193	.108	-.258	.133	-.345	.188
41.50	8.7	.015	-.118	-.082	-.080	-.058	-.063	-.083	-.048	-.115	.009	-.150	.098	-.181	.080	-.210	.157
	42.3	.028	-.128	-.089	-.100	-.061	-.078	-.080	-.033	-.129	.010	-.160	.098	-.200	.088	-.261	.148
	70.7	.008	-.140	-.038	-.116	-.070	-.080	-.111	-.038	-.158	.089	-.197	.098	-.240	.070	-.308	.174
44.50	8.7	.009	-.096	-.039	-.050	-.072	-.081	-.080	-.082	-.109	.018	-.138	.042	-.148	.078	-.187	.128
	42.3	0	-.102	-.057	-.090	-.066	-.066	-.089	-.090	-.119	.020	-.156	.058	-.180	.069	-.235	.121
	70.7	-.009	-.125	-.046	-.148	-.078	-.077	-.130	-.046	-.135	-.011	-.161	.085	-.197	.054	-.241	.107
47.50	8.7	.039	-.078	-.019	-.060	-.088	-.031	-.047	-.018	-.070	.018	-.128	.088	-.135	.048	-.146	.069
	42.3	.030	-.081	.009	-.062	0	-.035	-.049	-.049	-.041	.009	-.070	.021	-.14	.035	-.125	.079
	70.7	-.008	-.068	-.038	-.078	-.035	-.035	-.048	-.020	-.048	.008	-.117	.013	-.158	.038	-.104	.071
50.50	8.7	0	-.048	-.058	-.048	-.038	-.008	-.040	.022	-.060	.021	-.080	.040	-.100	.048	-.120	.048
	42.3	0	-.096	-.021	-.048	-.038	-.048	-.029	-.008	-.098	.008	-.072	.015	-.100	.021	-.112	.038
	70.7	-.008	-.058	-.048	-.045	-.080	-.048	-.049	-.005	-.046	.004	-.068	.016	-.098	.014	-.098	.045
53.50	8.7	---	-.045	---	-.038	---	-.025	---	-.014	---	0	---	.021	---	.037	---	.062
	42.3	-.008	-.039	-.006	-.039	-.021	-.021	-.038	-.019	-.045	0	-.048	.015	-.096	.030	-.057	.058
	70.7	0	-.035	0	-.034	-.028	-.028	-.025	-.028	-.048	0	-.049	.016	-.041	.028	-.050	.040
56.50	8.7	-.007	-.059	-.038	-.030	-.018	-.030	-.048	-.027	-.031	-.020	-.039	-.002	-.035	.030	-.039	.090
	42.3	-.018	-.058	-.048	-.038	-.18	-.038	-.048	-.038	-.050	-.038	-.039	-.007	-.041	.004	-.054	.087
	70.7	-.008	-.019	-.029	-.004	-.008	-.019	-.018	-.025	-.048	-.025	-.002	-.024	-.040	-.018	-.046	-.002
59.50	8.7	-.018	-.038	-.025	-.031	-.034	-.036	-.030	-.029	-.038	-.028	-.021	-.038	-.021	0	-.021	.027
	42.3	-.018	-.029	-.025	-.031	-.025	-.025	-.028	-.028	-.029	-.025	-.018	-.016	-.038	-.008	-.046	.018
	70.7	-.025	-.028	-.030	-.038	-.025	-.027	-.025	-.025	-.025	-.025	-.025	-.025	-.039	-.026	-.019	-.023

(c) M,0.70.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface	8, Upper surface	8, Lower surface
[illegible]	8.7	0.075	0.008	0.059	0.008	0.056	0.008	0.058	0.047	0.002	0.039	-0.004	0.104	-0.021	0.148
	42.3	.058	.004	.064	.004	.052	.004	.032	.045	.011	.028	-.004	.098	-.008	.112
	70.7	.060	.006	.045	.006	.048	.004	.030	.044	.013	.050	-.006	.065	-.038	.065
15	8.7	.042	-.018	.021	-.020	.022	-.002	-.020	.017	-.011	.048	-.008	.078	-.038	.079
	42.3	.036	-.020	.020	-.020	.018	-.018	-.012	.020	-.001	.023	-.030	.058	-.045	.069
	70.7	.028	-.018	.010	-.001	.020	-.018	.001	.001	-.011	.011	-.078	.038	-.061	.030
20	8.7	.008	-.005	.009	-.009	-.015	-.015	-.010	0	-.030	.015	-.045	.037	-.062	.074
	42.3	.008	-.038	.008	-.030	-.015	-.029	-.029	-.008	-.038	.018	-.049	.008	-.069	.038
	70.7	0	-.027	-.001	-.027	0	-.028	-.008	-.008	-.036	-.008	-.057	-.020	-.062	-.015
25	8.7	.008	-.030	.008	-.038	-.019	-.038	-.002	-.016	-.045	.040	-.058	.078	-.064	.040
	42.3	.020	-.030	-.001	-.038	-.080	-.008	-.031	-.009	-.049	0	-.057	.012	-.077	.008
	70.7	-.008	-.009	-.010	-.019	-.019	-.019	-.031	-.019	-.044	-.015	-.063	-.025	-.049	-.008
28.50	8.7	.008	-.038	.024	-.014	0	0	-.019	.030	-.039	.008	-.048	.049	-.080	.026
	42.3	.010	-.035	.008	-.009	.002	.008	-.019	.002	-.038	.018	-.045	.035	-.068	.048
	70.7	.008	-.034	.002	-.009	.008	.009	-.018	0	-.032	0	-.098	.010	-.069	.008
31.50	8.7	.030	-.045	.030	-.002	.002	.006	-.008	.014	-.048	.032	-.062	.061	-.068	.098
	42.3	.009	-.044	.009	-.012	.005	.005	-.019	.002	-.045	.008	-.069	.050	-.091	.080
	70.7	.008	-.036	.036	0	.008	.002	.008	-.001	-.035	.008	-.069	.042	-.089	.098
34.50	8.7	.078	-.048	.042	-.021	.001	.001	-.019	.001	-.045	.078	-.102	.098	-.149	.108
	42.3	.078	-.040	.092	-.030	.012	.005	-.028	.030	-.098	.078	-.117	.075	[illegible]	.073
	70.7	.090	-.059	.089	-.030	.018	.018	-.029	.048	-.063	.091	-.145	.108	-.141	.107
38.00	8.7	.049	-.052	.025	-.060	-.046	-.001	-.052	.007	-.088	.060	-.108	.078	-.237	.098
	42.3	.050	-.080	.115	-.066	-.035	-.008	-.071	.018	-.121	.058	-.185	.068	-.278	.100
	70.7	.077	-.099	.059	-.092	-.043	-.003	-.076	.008	-.138	.080	-.216	.121	-.315	.138
41.50	8.7	.048	-.084	-.021	-.108	-.069	-.068	-.089	-.075	-.131	-.009	-.173	.040	-.218	.046
	42.3	.032	-.100	-.050	-.138	-.078	-.073	-.102	-.048	-.146	0	-.196	.038	-.278	.048
	70.7	.048	-.121	-.038	-.135	-.080	-.080	-.120	-.048	-.167	0	-.082	.041	-.308	.021
44.50	8.7	.021	-.079	-.038	-.100	-.078	-.065	-.069	-.036	-.122	-.001	-.148	.089	-.208	.070
	42.3	.080	-.090	-.042	-.101	-.080	-.098	-.108	-.040	-.133	-.006	-.173	.088	-.219	.063
	70.7	.018	-.108	-.080	-.127	-.098	-.097	-.111	-.048	-.150	-.001	-.195	.010	-.238	.048
47.50	8.7	0	-.065	-.018	-.049	-.050	-.059	-.069	-.031	-.043	.005	-.116	.005	-.140	.058
	42.3	.009	-.048	.019	-.098	-.098	-.058	-.030	-.030	-.045	0	-.075	.008	-.101	.048
	70.7	-.020	-.089	-.088	-.075	-.078	-.067	-.079	-.038	-.039	-.009	-.121	.020	-.168	.048
50.50	8.7	-.018	-.040	-.030	-.035	-.048	-.048	-.048	-.009	-.038	.018	-.090	.030	-.108	.048
	42.3	-.008	-.069	-.018	-.057	-.045	-.045	-.050	-.089	-.045	-.005	-.082	.008	-.104	.007
	70.7	-.025	-.077	-.018	-.048	-.050	-.046	-.048	-.030	-.048	.010	-.078	.008	-.100	.043
53.50	8.7	---	-.041	---	-.049	---	-.049	---	-.030	---	0	---	-.007	---	.020
	42.3	-.011	-.048	-.008	-.048	-.030	-.048	-.050	-.048	-.045	-.038	-.060	-.004	-.078	.020
	70.7	-.011	-.030	-.008	-.038	-.011	-.030	-.036	-.046	-.048	-.038	-.061	-.030	-.060	.001
56.50	8.7	-.009	-.040	-.020	-.048	-.088	-.049	-.049	-.026	-.020	-.001	-.050	-.018	-.048	0
	42.3	-.008	-.030	-.008	-.036	-.008	-.030	-.039	-.029	-.046	-.008	-.049	-.009	-.050	-.001
	70.7	-.009	-.030	-.019	-.039	-.026	-.039	-.032	-.035	-.035	-.019	-.038	-.039	-.050	-.019
59.50	8.7	0	-.014	-.028	-.025	-.038	-.025	-.040	-.028	-.048	-.048	-.021	-.018	-.048	-.011
	42.3	-.025	-.025	-.027	-.027	-.035	-.025	-.042	-.022	-.038	-.048	-.021	-.009	-.040	-.001
	70.7	-.022	-.038	-.038	-.048	-.039	-.038	-.048	-.048	-.030	-.038	-.030	-.038	-.040	-.038

NACA

TABLE IV.— CONTINUED

(d) M,0.75.

Station (in.)	Percent fuselage radius	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface
		Angle of attack, degrees													
10	8.7	0.100	0.025	0.065	0.023	0.046	0.046	0.030	0.060	0.010	0.076	0.002	0.138	-0.009	0.140
	42.3	.090	.027	.066	.027	.050	.041	.039	.060	.020	.071	.005	.100	-.007	.119
	70.7	.076	.026	.060	.023	.051	.041	.040	.054	.016	.060	.005	.072	-.014	.079
15	8.7	.064	0	.038	0	.029	.019	.002	.030	-.010	.049	-.019	.078	-.025	.105
	42.3	.059	-.001	.030	-.009	.020	.010	.005	.021	-.010	.031	-.016	.060	-.030	.076
	70.7	.045	0	.022	0	.020	.015	.010	.022	-.017	.040	-.027	.040	-.040	.042
20	8.7	.025	-.029	.049	-.032	-.023	-.023	-.012	.010	-.027	.025	-.049	.032	-.028	.039
	42.3	.019	-.025	.045	-.030	-.020	-.020	-.012	.005	-.021	.019	-.046	.009	-.020	.045
	70.7	0	-.030	.034	-.030	-.028	-.028	-.012	0	-.031	.008	-.055	.001	-.050	.020
25	8.7	.028	-.036	.049	-.036	-.027	-.027	-.018	0	-.025	.011	.009	.009	-.018	.031
	42.3	.005	-.022	.035	-.036	-.022	-.022	-.024	.002	-.030	.020	.020	.020	-.026	.046
	70.7	-.010	-.030	.027	-.032	-.023	-.023	-.020	-.005	-.038	.005	-.005	.005	-.030	.020
28.50	8.7	.030	-.022	.012	-.010	-.005	-.001	-.019	.010	-.030	.030	-.038	.060	-.050	.078
	42.3	.021	-.024	.012	-.010	-.001	-.005	-.014	.010	-.030	.020	-.030	.048	-.058	.051
	70.7	.025	-.028	.003	-.020	-.002	-.002	-.011	.001	-.029	.003	-.037	.028	-.061	.013
31.50	8.7	.045	-.029	.025	-.020	-.002	.001	-.022	.020	-.041	.039	-.050	.072	-.079	.090
	42.3	.040	-.025	.021	-.017	-.003	.008	-.020	.022	-.040	.025	-.050	.011	-.050	.070
	70.7	.037	-.016	.021	.001	.021	.011	-.010	.020	-.039	.030	-.045	.049	-.090	.090
34.50	8.7	.051	-.067	.027	-.041	-.002	-.014	-.021	.033	-.058	.060	-.110	.078	-.140	.120
	42.3	.059	-.068	.031	-.037	-.001	-.016	-.021	.040	-.059	.070	-.121	.079	-.164	.115
	70.7	.060	-.079	.030	-.037	-.010	0	-.032	.050	-.061	.065	-.161	.065	-.223	.131
38.00	8.7	.032	-.110	-.022	-.060	-.040	-.045	-.060	.010	-.109	.049	-.175	.059	-.220	.112
	42.3	.022	-.120	-.010	-.064	-.052	-.043	-.050	.020	-.127	.060	-.200	.069	-.264	.120
	70.7	.050	-.140	.010	-.092	-.046	-.053	-.078	.019	-.146	.065	-.228	.080	-.300	.146
41.50	8.7	.008	-.139	-.010	-.087	-.040	-.039	-.078	-.009	-.121	.086	-.170	.052	-.280	.108
	42.3	-.001	-.150	-.015	-.100	-.055	-.055	-.088	-.027	-.131	.080	-.191	.047	-.241	.098
	70.7	-.011	-.170	-.024	-.116	-.071	-.071	-.107	-.020	-.161	.017	-.250	.048	-.280	.109
44.50	8.7	-.015	-.125	-.020	-.082	-.049	-.053	-.079	-.012	-.127	.012	-.159	.036	-.190	.074
	42.3	-.022	-.131	-.031	-.091	-.062	-.053	-.090	-.020	-.121	.012	-.170	.030	-.210	.072
	70.7	-.031	-.155	-.041	-.109	-.077	-.075	-.104	-.034	-.141	-.005	-.186	.019	-.229	.058
47.50	8.7	.009	-.081	-.020	-.068	-.042	-.042	-.070	-.042	-.090	0	-.101	.040	-.130	.060
	42.3	.035	-.080	.015	-.072	-.010	-.048	-.026	-.004	-.046	-.004	-.057	.036	-.089	.050
	70.7	-.002	-.056	-.029	-.070	-.050	-.050	-.071	-.008	-.095	-.005	-.130	.008	-.145	.046
50.50	8.7	-.001	-.038	-.014	-.027	-.040	-.040	-.051	0	-.067	.016	-.070	.040	-.090	.055
	42.3	0	-.055	-.015	-.050	-.031	-.037	-.048	-.021	-.062	-.010	-.067	.015	-.087	.030
	70.7	-.004	-.042	-.017	-.040	-.040	-.028	-.040	-.020	-.055	-.010	-.068	.011	-.061	.020
53.50	8.7	---	-.040	---	-.030	---	-.020	---	-.012	---	-.004	---	.011	---	.029
	42.3	-.001	-.035	-.010	-.029	-.019	-.019	-.029	-.015	-.042	-.010	-.050	.001	-.064	.015
	70.7	-.002	-.030	-.014	-.025	-.008	-.015	-.020	-.020	-.034	-.010	-.040	.002	-.030	.009
56.50	8.7	-.014	-.035	-.025	-.029	-.014	-.025	-.030	-.017	-.038	-.010	-.040	-.004	-.070	0
	42.3	-.014	-.026	-.020	-.026	-.020	-.026	-.029	-.019	-.034	-.001	-.039	-.002	-.049	-.006
	70.7	.002	-.025	-.007	-.025	-.024	-.014	-.020	-.012	-.020	-.020	-.020	-.011	-.051	-.012
59.50	8.7	-.005	-.020	-.018	-.020	-.018	-.020	-.025	-.020	-.025	-.017	-.030	-.001	-.045	0
	42.3	-.008	-.020	-.015	-.020	-.015	-.020	-.020	-.020	-.030	-.019	-.025	-.010	-.048	-.009
	70.7	-.010	-.025	-.020	-.030	-.020	-.020	-.030	-.030	-.030	-.025	-.029	-.020	-.040	-.019

(e) M,0.80.

Station (in.)	Percent fuselage radius	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	7 Upper surface	7 Lower surface
		Angle of attack, degrees													
10	8.7	0.100	0.030	0.081	0.040	0.062	0.060	0.043	0.070	0.014	0.081	0.014	0.133	0.009	0.148
	42.3	.090	.030	.079	.048	.068	.060	.049	.070	.019	.070	.019	.118	.010	.128
	70.7	.080	.031	.079	.040	.064	.055	.048	.059	.019	.060	.008	.084	0	.089
15	8.7	.065	.005	.050	.009	.031	.029	.012	.040	-.008	.045	-.009	.090	-.011	.105
	42.3	.057	.008	.044	.008	.033	.022	.016	.030	-.012	.030	-.029	.069	-.019	.080
	70.7	.047	.009	.032	.011	.030	.021	.015	.032	-.018	.032	-.018	.050	-.028	.036
20	8.7	.030	-.010	.020	-.010	-.010	-.010	-.011	.010	-.030	.020	-.030	.054	-.035	.067
	42.3	.020	-.015	.017	-.010	-.010	-.010	-.012	.005	-.029	.013	-.051	.039	-.046	.045
	70.7	.018	-.017	.012	-.017	-.017	-.010	-.018	0	-.051	0	-.040	.018	-.050	.012
25	8.7	.022	-.020	.010	-.026	-.017	-.017	-.018	0	-.038	.010	-.030	.038	-.030	.050
	42.3	.015	-.014	-.002	-.027	-.004	-.020	-.027	-.001	-.035	.006	-.035	.030	-.040	.038
	70.7	.009	-.020	-.005	-.026	-.019	-.019	-.028	-.006	-.058	-.006	-.058	.018	-.055	.010
28.50	8.7	.027	-.014	.010	-.012	-.002	-.002	-.018	.011	-.018	.018	-.048	.042	-.048	.070
	42.3	.020	-.014	.010	-.012	0	0	-.016	.009	-.030	.011	-.048	.031	-.048	.058
	70.7	.008	-.016	.001	-.016	-.001	-.001	-.015	0	-.030	.001	-.050	.020	-.050	.020
31.50	8.7	.032	-.021	.020	-.021	0	0	-.020	.022	-.040	.024	-.068	.051	-.068	.080
	42.3	.036	-.020	.021	-.028	0	0	-.011	.015	-.040	.015	-.060	.040	-.068	.070
	70.7	.029	-.009	.019	-.005	.014	.024	0	.025	-.030	.025	-.059	.029	-.059	.050
34.50	8.7	.070	-.046	.010	-.061	.005	-.001	-.030	.026	-.060	.050	-.100	.008	-.120	.113
	42.3	.078	-.052	.016	-.058	.010	.009	-.028	.031	-.064	.055	-.110	.059	-.138	.116
	70.7	.060	-.060	.008	-.096	.010	.008	-.038	.050	-.092	.070	-.146	.112	-.159	.138
38.00	8.7	.050	-.060	-.020	-.110	-.028	-.038	-.077	0	-.120	.038	-.177	.080	-.211	.109
	42.3	.046	-.090	-.028	-.111	-.031	-.040	-.088	.005	-.140	.037	-.205	.089	-.244	.117
	70.7	.070	-.104	-.009	-.125	-.030	-.039	-.089	.008	-.150	.045	-.230	.101	-.280	.136
41.50	8.7	.006	-.138	-.028	-.109	-.055	-.060	-.098	-.023	-.140	.020	-.159	.054	-.225	.090
	42.3	0	-.145	-.027	-.131	-.062	-.070	-.108	-.025	-.151	.005	-.216	.049	-.258	.080
	70.7	-.008	-.168	-.037	-.141	-.060	-.080	-.130	-.028	-.180	-.003	-.249	.051	-.288	.085
44.50	8.7	-.016	-.126	-.040	-.110	-.061	-.069	-.101	-.030	-.140	-.018	-.180	.037	-.201	.061
	42.3	-.020	-.135	-.050	-.125	-.070	-.070	-.110	-.032	-.149	-.010	-.190	.032	-.219	.060
	70.7	-.032	-.159	-.060	-.139	-.069	-.091	-.129	-.050	-.166	-.018	-.214	.020	-.241	.040
47.50	8.7	-.010	-.094	-.006	-.080	-.045	-.045	-.080	-.030	-.099	-.005	-.130	-.025	-.138	-.045
	42.3	.025	-.092	.010	-.080	-.008	-.050	-.089	-.029	-.020	-.050	-.060	.017	-.089	.059
	70.7	-.020	-.100	-.036	-.082	-.052	-.052	-.080	-.037	-.105	-.016	-.134	.012	-.150	.025
50.50	8.7	-.012	-.039	-.029	-.039	-.030	-.030	-.061	-.009	-.070	.012	-.088	.030	-.092	.045
	42.3	-.010	-.061	-.020	-.058	-.030	-.033	-.056	-.030	-.062	-.015	-.060	.007	-.092	.022
	70.7	-.010	-.047	-.020	-.042	-.026	-.026	-.050	-.025	-.060	-.015	-.071	0	-.083	.012
53.50	8.7	---	-.040	---	-.040	---	-.028	---	-.019	---	-.010	---	.019	---	.019
	42.3	0	-.040	-.012	-.034	-.024	-.024	-.041	-.018	-.050	-.010	-.050	.020	-.022	.014
	70.7	.002	-.030	-.008	-.025	-.018	-.025	-.032	-.014	-.031	-.015	-.039	.006	-.048	.006
56.50	8.7	-.022	-.042	-.022	-.047	-.029	-.042	-.030	-.020	-.045	-.018	-.039	-.018	-.045	-.009
	42.3	-.014	-.039	-.020	-.042	-.018	-.036	-.030	-.030	-.035	-.012	-.030	-.030	-.040	0
	70.7	-.014	-.036	-.019	-.048	-.025	-.033	.019	-.009	-.015	.002	-.018	.001	-.005	.002
59.50	8.7	-.001	.009	-.024	-.009	.021	.021	-.019	.020	-.019	.020	-.020	.020	-.019	.027
	42.3	.019	-.006	---	-.007	-.006	-.006	-.005	.006	-.020	.006	-.020	.014	-.009	.014
	70.7	.004	-.009	-.003	-.010	.004	-.009	-.010	-.005	-.010	-.005	-.010	.004	-.010	.004

TABLE IV.- CONTINUED

(f) M,0.82.

Station (in.)	Percent fuselage radius	−4 Upper surface	−4 Lower surface	−2 Upper surface	−2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	7 Upper surface	7 Lower surface
		Angle of attack, degrees													
10	8.7	0.091	0.032	0.060	0.032	0.050	0.045	0.042	0.070	---	---	0.015	0.122	0	0.132
	42.3	.091	.035	.075	.040	.049	.049	.042	.070	---	---	.086	.138	0	.125
	70.7	.080	.032	.070	.038	.050	.045	.045	.062	---	---	.018	.080	−.004	.073
15	8.7	.061	.012	.042	.023	.030	.030	.010	.036	---	---	−.009	.082	−.004	.096
	42.3	.055	.005	.035	.008	.012	.012	.009	.024	---	---	−.015	.082	−.030	.070
	70.7	.019	.009	.030	.012	.015	.019	.010	.020	---	---	−.018	.040	−.038	.040
20	8.7	.037	−.020	.015	−.020	−.009	−.018	−.016	.008	---	---	−.015	.050	−.055	.060
	42.3	.022	−.017	.010	−.017	−.008	.010	−.011	0	---	---	−.030	.032	−.040	.042
	70.7	.008	−.017	−.001	−.027	−.007	.008	−.020	−.005	---	---	−.041	.010	−.050	.018
25	8.7	.032	−.025	.005	−.025	−.011	−.018	−.019	−.001	---	---	−.025	.040	−.050	.052
	42.3	.009	−.015	0	−.027	0	−.025	−.020	0	---	---	−.053	.025	−.043	.038
	70.7	−.005	−.025	−.010	−.025	−.015	−.015	−.025	−.018	---	---	−.041	.005	−.080	.009
28.50	8.7	.011	−.030	.005	−.010	−.010	−.015	−.021	−.002	---	---	−.029	.058	−.040	.066
	42.3	.006	−.030	.008	−.015	0	−.030	−.021	−.009	---	---	−.030	.040	−.043	.043
	70.7	−.005	−.032	−.010	−.015	−.005	−.018	−.021	−.011	---	---	−.039	.018	−.050	.020
31.50	8.7	.021	−.026	.015	−.019	−.019	−.018	−.022	.021	---	---	−.048	.070	−.059	.081
	42.3	.014	−.032	.014	−.018	−.016	−.010	−.022	.005	---	---	−.045	.057	−.062	.066
	70.7	.013	−.025	.020	−.001	.012	−.018	−.012	.009	---	---	−.040	.046	−.060	.050
34.50	8.7	.061	−.040	.030	−.030	−.019	−.019	−.022	.021	---	---	−.099	.092	−.105	.116
	42.3	.070	−.048	.058	−.030	−.020	−.020	−.022	.029	---	---	−.106	.098	−.126	.118
	70.7	.068	−.042	.042	−.028	−.018	−.009	−.029	.048	---	---	−.144	.120	−.174	.139
37.50	8.7	.039	−.091	.002	−.038	−.060	−.060	−.060	−.021	---	---	−.181	.086	−.218	.110
	42.3	.029	−.102	−.005	−.032	−.058	−.078	−.089	.001	---	---	−.208	.094	−.250	.120
	70.7	.054	−.120	.011	−.102	−.061	−.065	−.088	.003	---	---	−.238	.109	−.266	.138
41.50	8.7	.011	−.131	−.033	−.109	−.060	−.068	−.099	−.035	---	---	−.205	.060	−.258	.078
	42.3	.009	−.140	−.038	−.123	−.069	−.069	−.110	−.040	---	---	−.286	.051	−.280	.070
	70.7	0	−.162	−.041	−.141	−.061	−.085	−.130	−.050	---	---	−.261	.050	−.318	.070
44.50	8.7	−.007	−.120	−.043	−.111	−.072	−.065	−.105	−.041	---	---	−.190	.039	−.230	.048
	42.3	−.018	−.130	−.054	−.119	−.062	−.070	−.118	−.047	---	---	−.205	.031	−.240	.041
	70.7	−.026	−.168	−.063	−.139	−.098	−.095	−.136	−.068	---	---	−.230	.018	−.262	.029
47.50	8.7	−.010	−.090	−.032	−.088	−.060	−.080	---	---	---	---	−.128	.025	−.152	.035
	42.3	.028	−.090	0	−.080	−.080	−.060	---	---	---	---	−.080	.080	−.101	.029
	70.7	−.021	−.100	−.048	−.089	−.072	−.065	---	---	---	---	−.138	.012	−.168	.015
50.50	8.7	−.012	−.041	−.038	−.041	−.058	−.050	---	---	---	---	−.080	.032	−.109	.036
	42.3	−.015	−.064	−.030	−.064	−.045	−.045	---	---	---	---	−.084	.008	−.102	.006
	70.7	−.012	−.050	−.050	−.051	−.040	−.040	---	---	---	---	−.076	−.001	−.089	−.001
53.50	8.7	---	−.039	---	−.042	---	−.040	---	---	---	---	---	.008	---	.012
	42.3	−.010	−.039	−.021	−.040	−.021	−.021	---	---	---	---	−.059	0	−.070	−.010
	70.7	−.005	−.035	−.024	−.030	−.026	−.028	---	---	---	---	−.049	−.002	−.055	0
56.50	8.7	−.011	−.020	−.021	−.021	−.029	−.043	---	---	---	---	−.050	−.030	−.050	−.020
	42.3	−.011	−.012	−.021	−.033	−.039	−.051	---	---	---	---	−.046	−.028	−.052	−.018
	70.7	.012	−.011	−.006	−.019	−.009	−.010	---	---	---	---	−.024	−.026	−.026	−.020
59.50	8.7	−.018	−.022	−.010	−.030	−.018	−.022	---	---	---	---	−.027	−.018	−.018	−.001
	42.3	−.016	−.020	−.018	−.025	−.030	−.020	---	---	---	---	−.025	−.018	−.017	−.018
	70.7	−.010	−.020	−.018	−.025	−.013	−.025	---	---	---	---	−.028	−.022	−.026	−.022

(g) M,0.84

Station (in.)	Percent fuselage radius	−4 Upper surface	−4 Lower surface	−2 Upper surface	−2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
		Angle of attack, degrees											
10	8.7	0.092	0.032	0.075	0.040	0.061	0.060	0.040	0.070	0.080	0.090	0.009	0.112
	42.3	.090	.032	.078	.040	.060	.060	.080	.070	.089	.082	.009	.101
	70.7	.079	.032	.069	.040	.061	.075	.050	.065	.087	.069	.009	.075
15	8.7	.058	.001	.041	.001	.035	.031	.015	.039	−.005	.037	−.018	.080
	42.3	.050	−.005	.038	−.008	.031	.028	.015	.032	−.003	.040	−.020	.060
	70.7	.038	.001	.029	.001	.023	.023	.015	.031	−.001	.035	−.019	.040
20	8.7	.009	−.018	.011	−.020	0	0	−.012	.009	−.021	.025	−.035	.041
	42.3	.021	−.015	.002	−.020	−.001	−.002	−.010	.005	−.022	.019	−.038	.029
	70.7	.005	−.019	−.009	−.019	−.009	−.009	−.018	−.005	−.028	.002	−.046	.005
25	8.7	.021	−.019	.002	−.025	−.008	−.010	−.013	.002	−.022	.015	−.039	.036
	42.3	.009	−.019	−.010	−.025	−.018	−.015	−.019	.004	−.031	.015	−.039	.080
	70.7	−.002	−.019	−.010	−.025	−.025	−.015	−.019	−.009	−.031	0	−.049	0
28.50	8.7	.025	−.011	.002	.018	−.005	−.005	−.020	.009	−.022	.025	−.035	.042
	42.3	.020	−.010	.001	−.020	−.003	−.003	−.025	.005	−.024	.015	−.037	.030
	70.7	.009	−.018	.001	−.022	−.001	−.001	−.018	−.005	−.026	.006	−.040	.006
31.50	8.7	.036	−.015	.010	−.006	.010	0	−.019	.025	−.032	.039	−.048	.064
	42.3	.032	−.015	.009	−.004	.009	0	−.011	.015	−.029	.030	−.047	.049
	70.7	.025	−.008	.011	−.008	.011	.010	−.005	.020	−.018	.031	−.039	.036
34.50	8.7	.061	−.040	.031	−.034	0	0	−.011	.028	−.054	.058	−.080	.104
	42.3	.069	−.039	.037	−.026	.009	.009	−.009	.038	−.052	.061	−.091	.104
	70.7	.072	−.048	.041	−.026	.005	.002	−.021	.051	−.070	.039	−.126	.128
37.50	8.7	.040	−.092	−.001	−.088	−.039	−.039	−.047	0	−.120	.040	−.174	.095
	42.3	.031	−.110	−.018	−.069	−.077	−.035	−.062	.008	−.138	.048	−.200	.090
	70.7	.048	−.119	.010	−.102	−.045	−.040	−.079	.008	−.148	.059	−.218	.112
41.50	8.7	.008	−.141	−.024	−.109	−.050	−.055	−.104	−.036	−.151	.011	−.216	.059
	42.3	.001	−.152	−.032	−.127	−.068	−.070	−.118	−.041	−.165	.002	−.234	.050
	70.7	−.005	−.171	−.045	−.139	−.080	−.088	−.130	−.051	−.195	.001	−.269	.050
44.50	8.7	−.017	−.134	−.046	−.118	−.072	−.043	−.111	−.045	−.155	−.009	−.200	.035
	42.3	−.021	−.141	−.053	−.118	−.085	−.068	−.120	−.050	−.165	−.010	−.219	.030
	70.7	−.035	−.168	−.069	−.143	−.100	−.090	−.139	−.070	−.186	−.029	−.241	.015
47.50	8.7	−.003	−.090	−.049	−.093	−.059	−.055	−.060	−.039	−.129	−.086	−.135	.080
	42.3	.035	−.089	−.002	−.091	−.015	−.058	−.035	−.041	−.080	−.031	−.092	.011
	70.7	−.014	−.099	−.077	−.099	−.069	−.062	−.050	−.049	−.130	−.039	−.150	.002
50.50	8.7	−.010	−.042	−.042	−.049	−.058	−.038	−.061	−.013	−.095	−.001	−.095	.086
	42.3	−.001	−.058	−.035	−.070	−.041	−.041	−.055	−.039	−.085	−.031	−.090	−.001
	70.7	−.008	−.048	−.032	−.058	−.032	−.048	−.048	−.032	−.078	−.032	−.078	−.004
53.50	8.7	---	−.039	---	−.040	---	−.030	---	−.025	---	−.005	---	.010
	42.3	−.005	−.035	−.025	−.042	−.020	−.020	−.041	−.021	−.049	−.009	−.058	.002
	70.7	−.005	−.026	−.019	−.019	−.015	−.015	−.008	−.018	−.046	−.006	−.054	−.001
56.50	8.7	−.018	−.031	−.018	−.028	−.021	−.021	−.040	−.011	−.040	−.010	−.041	.002
	42.3	−.012	−.025	−.012	−.019	−.012	−.025	−.040	−.010	−.041	−.010	−.035	.002
	70.7	.009	−.016	0	−.016	−.007	−.009	−.018	−.010	−.029	−.010	−.010	−.018
59.50	8.7	−.008	−.009	−.018	−.020	−.002	−.009	−.021	−.009	−.030	−.009	.008	−.001
	42.3	0	−.020	−.010	−.017	0	−.010	−.018	−.007	−.027	−.009	−.009	−.008
	70.7	−.005	−.012	−.012	−.025	−.005	−.018	−.025	−.016	−.025	−.015	−.025	−.015

TABLE IV.- CONTINUED

(h) M,0.86.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
10	8.7	0.100	0.038	0.075	0.032	0.051	0.051	0.048	0.075	0.029	0.098	0.080	0.122
	42.3	.099	.040	.075	.035	.050	.056	.050	.078	.035	.069	.082	.118
	70.7	.089	.035	.069	.035	.050	.056	.055	.069	.038	.082	.083	.089
15	8.7	.068	.011	.043	.040	.021	.019	.020	.040	.009	.056	-.005	.091
	42.3	.062	.009	.038	.035	.019	.015	.018	.051	.005	.045	-.009	.070
	70.7	.050	.010	.030	.030	.020	.015	.021	.033	.001	.039	-.009	.072
20	8.7	.029	-.013	.015	-.013	-.009	-.013	-.015	.010	-.028	.022	-.029	.030
	42.3	.021	-.015	.010	-.015	-.008	-.010	-.012	.005	-.025	.015	-.030	.034
	70.7	.009	-.020	0	-.025	-.008	-.010	-.015	0	.030	-.002	-.038	.020
25	8.7	.025	-.018	.010	-.020	-.013	-.015	-.020	-.005	-.023	.018	-.027	.041
	42.3	.010	-.020	-.002	-.020	-.015	-.020	-.019	-.001	-.018	.010	-.020	.029
	70.7	0	-.015	0	-.019	-.010	-.025	-.015	-.005	-.030	-.005	-.040	.009
28.50	8.7	.015	-.009	.012	-.015	-.020	-.009	-.016	-.005	-.028	.029	-.035	.040
	42.3	.033	-.009	.008	-.020	-.020	-.009	-.013	-.018	-.030	.020	-.038	.029
	70.7	.018	-.018	0	-.018	-.019	-.021	-.013	-.016	-.028	.005	-.042	.005
31.50	8.7	.029	-.013	.005	-.025	-.025	-.023	-.020	-.015	-.034	.020	-.034	.021
	42.3	.015	-.011	-.001	-.020	-.020	-.021	-.028	-.011	-.029	.012	-.040	.021
	70.7	.009	-.020	-.010	-.020	-.020	-.010	-.028	-.021	-.029	0	-.047	0
34.50	8.7	.058	-.010	.009	-.020	-.020	-.010	-.021	.009	-.020	.028	-.030	.058
	42.3	.029	-.009	.001	-.019	-.010	-.009	-.021	.001	-.020	.019	-.029	.048
	70.7	.018	-.012	0	-.020	-.015	-.010	-.012	-.001	-.020	.009	-.013	.021
38.00	8.7	.040	-.010	.018	-.020	-.010	-.010	-.019	.015	-.022	.040	-.026	.073
	42.3	.040	-.009	.018	-.020	-.009	-.009	-.019	.017	-.019	.031	-.030	.062
	70.7	.031	0	.019	-.005	.007	.010	.001	.021	-.020	.035	-.020	.051
41.50	8.7	.016	-.141	-.009	-.130	-.075	-.075	-.100	-.030	-.161	.011	-.225	.066
	42.3	.018	-.151	-.033	-.141	-.081	-.085	-.118	-.039	-.180	.008	-.245	.060
	70.7	.005	-.172	-.041	-.161	-.098	-.099	-.130	-.048	-.205	0	-.268	.061
44.50	8.7	-.009	-.138	-.050	-.138	-.087	-.089	-.118	-.041	-.169	-.010	-.220	.048
	42.3	-.014	-.158	-.060	-.141	-.091	-.091	-.121	-.090	-.180	-.010	-.240	.039
	70.7	-.025	-.175	-.070	-.162	-.112	-.115	-.142	-.048	-.200	-.026	-.270	.028
47.50	8.7	-.009	-.101	-.034	-.090	-.069	-.069	-.081	-.038	-.110	-.008	-.128	.032
	42.3	.030	-.100	.005	-.100	-.030	-.075	-.032	-.040	-.065	-.011	-.078	.029
	70.7	-.020	-.107	-.044	-.099	-.075	-.080	-.088	-.045	-.115	-.029	-.136	.019
50.50	8.7	-.015	-.040	-.033	-.040	-.033	-.058	-.041	-.008	-.078	.015	-.080	.039
	42.3	-.023	-.065	-.025	-.065	-.055	-.050	-.050	-.030	-.065	-.015	-.075	.021
	70.7	-.013	-.054	-.027	-.054	-.045	-.045	-.042	-.028	-.059	-.015	-.059	.009
53.50	8.7	---	-.031	---	-.041	---	-.029	---	-.017	---	-.008	---	.008
	42.3	.008	-.025	-.019	-.040	-.019	-.025	-.030	-.018	-.040	-.008	-.045	.005
	70.7	.008	-.010	-.010	-.038	-.010	-.012	-.025	-.013	-.034	-.005	-.039	-.008
56.50	8.7	-.005	-.025	-.020	-.025	-.038	-.025	-.035	-.030	-.040	-.001	-.040	.009
	42.3	-.003	-.020	-.018	-.020	-.028	-.015	-.021	-.019	-.029	0	-.036	0
	70.7	.009	-.010	-.003	-.019	-.005	-.010	-.015	-.014	-.020	0	-.028	-.009
59.50	8.7	-.010	-.020	-.025	-.029	-.025	-.029	-.029	.012	-.025	.001	-.020	.010
	42.3	-.010	-.015	-.021	-.029	-.021	-.029	-.022	-.010	-.015	-.010	-.018	.001
	70.7	-.010	-.015	-.025	-.029	-.025	-.029	-.019	-.019	-.019	-.019	-.020	-.008

(i) M,0.88.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
10	8.7	0.100	0.045	0.070	0.050	0.060	0.060	0.059	0.089	0.088	0.095	0.082	0.135
	42.3	.098	.045	.068	.055	.063	.065	.060	.085	.034	.089	.085	.118
	70.7	.085	.050	.080	.058	.067	.067	.069	.072	.032	.072	.082	.095
15	8.7	.065	.015	.072	.020	.025	.030	.023	.046	.001	.059	0	.098
	42.3	.059	.010	.049	.018	.019	.018	.026	.041	.002	.048	-.004	.075
	70.7	.045	.019	.045	.019	.029	.029	.026	.038	0	.038	-.003	.052
20	8.7	.027	-.010	.021	-.004	.005	.005	.005	.021	-.015	.029	-.019	.027
	42.3	.025	-.005	.025	-.005	.008	.002	.002	.021	-.018	.021	-.021	.047
	70.7	.010	-.009	.010	-.009	.002	.002	.001	.010	-.021	.010	-.029	.021
25	8.7	.021	-.011	.018	-.011	-.015	0	-.005	.015	-.014	.019	-.029	.050
	42.3	.019	-.010	.011	-.010	-.001	.005	-.009	.018	-.025	.014	-.025	.040
	70.7	.005	-.010	.005	-.010	0	-.010	-.009	.008	-.025	.008	-.030	.018
28.50	8.7	.021	-.011	.010	-.011	-.008	-.008	-.002	.021	-.015	.025	-.019	.021
	42.3	.018	-.005	.008	-.010	-.002	-.008	-.001	.028	-.018	.028	-.023	.050
	70.7	.002	-.010	.002	-.005	-.005	-.005	0	.010	-.019	.018	-.025	.025
31.50	8.7	.038	-.005	.018	-.016	-.005	.008	-.001	.050	-.021	.040	-.021	.079
	42.3	.038	.002	.020	-.009	.001	.001	.005	.028	-.018	.031	-.021	.071
	70.7	.034	.008	.030	.008	.018	.018	.018	.036	-.005	.039	-.011	.060
34.50	8.7	.058	-.030	.093	.031	.009	.004	.005	.057	-.047	.057	-.070	.108
	42.3	.067	-.028	.100	.032	.013	.009	.009	.061	-.051	.068	-.080	.111
	70.7	.079	-.025	.118	.034	.027	.021	.020	.080	-.060	.081	-.109	.135
38.00	8.7	.030	-.093	.059	-.031	-.019	-.039	-.051	.020	-.126	.031	-.176	.099
	42.3	.020	-.100	.053	-.033	-.037	-.035	-.067	.031	-.141	.041	-.201	.100
	70.7	.045	-.109	.070	-.051	-.036	-.045	-.065	.011	-.157	.050	-.225	.121
41.50	8.7	-.002	-.150	-.013	-.119	-.055	-.059	-.090	-.009	-.153	.020	-.229	.075
	42.3	-.009	-.152	-.020	-.130	-.068	-.069	-.101	-.018	-.169	.016	-.244	.070
	70.7	-.021	-.173	-.029	-.149	-.078	-.083	-.120	-.027	-.190	.011	-.272	.065
44.50	8.7	-.026	-.155	-.040	-.108	-.077	-.070	-.109	-.023	-.166	.005	-.260	.049
	42.3	-.038	-.161	-.046	-.136	-.081	-.078	-.118	-.022	-.181	-.008	-.279	.047
	70.7	-.051	-.195	-.060	-.159	-.099	-.095	-.139	-.048	-.201	-.020	-.310	.051
47.50	8.7	-.021	-.109	.021	-.038	-.060	-.060	-.079	-.025	-.114	-.018	-.149	.038
	42.3	.013	-.108	.057	-.041	-.019	-.065	-.030	-.030	-.069	-.018	-.099	.021
	70.7	-.052	-.111	.009	-.041	-.068	-.068	-.081	-.035	-.120	-.020	-.158	.014
50.50	8.7	-.021	-.048	.020	.018	-.049	-.021	-.054	.005	-.072	.005	-.079	.039
	42.3	-.016	-.067	.029	-.009	-.040	-.031	-.045	-.018	-.069	-.019	-.071	.021
	70.7	-.016	-.053	.030	.003	-.033	-.033	-.053	-.015	-.052	-.021	-.061	.005
53.50	8.7	---	-.048	---	-.039	---	-.028	---	-.009	---	0	---	.014
	42.3	-.015	-.040	-.015	-.035	-.015	-.025	-.015	0	-.043	-.015	-.043	.006
	70.7	-.014	-.033	-.010	-.029	-.020	-.015	0	0	-.029	.009	-.031	.009
56.50	8.7	-.022	-.042	-.022	-.035	-.031	-.035	-.010	-.008	-.038	-.015	-.038	.001
	42.3	-.022	-.030	-.028	-.030	-.025	-.030	-.018	-.008	-.037	-.008	-.037	.027
	70.7	-.009	-.024	-.012	-.024	-.009	-.020	0	-.009	-.005	-.010	0	0
59.50	8.7	-.005	-.012	-.005	-.012	-.010	-.015	-.018	0	-.030	0	-.029	.012
	42.3	-.010	-.015	-.012	-.015	-.009	-.018	-.015	-.009	-.030	-.009	-.030	.005
	70.7	-.012	-.019	-.012	-.019	-.015	-.019	-.012	-.012	-.028	-.012	-.028	-.010

NACA

TABLE IV.- CONTINUED

(j) M,0.90.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
10	8.7	0.059	0.039	0.077	0.039	0.060	0.054	0.058	0.081	0.048	0.105
	42.3	.095	.041	.073	.041	.065	.053	.061	.051	.049	.094
	70.7	.085	.040	.070	.040	.060	.050	.061	.038	.049	.081
15	8.7	.061	.018	.038	.008	.030	.018	.025	.049	.030	.067
	42.3	.077	.005	.032	.001	.030	.030	.022	.040	.008	.035
	70.7	.048	.010	.030	.008	.030	.020	.025	.055	.011	.049
20	8.7	.019	-.020	.009	-.020	-.006	-.006	-.008	.020	-.015	.051
	42.3	.011	-.021	.007	-.019	-.006	-.005	-.008	.013	-.012	.021
	70.7	.002	-.030	-.018	-.028	-.020	-.016	-.011	.025	-.019	.011
25	8.7	.010	-.021	.005	-.019	-.006	-.006	-.009	.005	-.019	.021
	42.3	-.002	-.020	-.005	-.020	-.015	-.015	-.012	.010	-.020	.015
	70.7	-.012	-.020	-.019	-.028	-.025	-.015	-.012	0	-.028	.009
28.50	8.7	.020	-.008	.010	-.011	0	0	-.011	.010	-.011	.030
	42.3	.001	-.008	.002	-.010	.001	-.002	-.009	.010	-.012	.009
	70.7	.001	-.022	.001	-.012	.001	-.001	-.011	0	-.011	.015
31.50	8.7	.031	-.008	.019	-.008	.010	.020	-.009	.020	-.009	.040
	42.3	.032	-.001	.015	-.008	.016	-.001	-.005	.020	-.005	.040
	70.7	.031	.010	.025	.005	.028	.021	.011	.030	.002	.045
34.50	8.7	.061	-.033	.013	-.022	0	0	0	.042	-.005	.080
	42.3	.079	-.030	.040	-.020	.013	.008	.001	.059	-.030	.082
	70.7	.080	-.030	.050	-.011	.025	.025	.008	.069	-.038	.100
37.50	8.7	.032	-.134	-.001	-.082	-.045	-.018	-.043	.010	-.105	.038
	42.3	.088	-.111	-.022	-.088	-.055	-.040	-.081	.011	-.124	.061
	70.7	.047	-.180	.014	-.106	-.046	-.051	-.075	.022	-.131	.063
41.50	8.7	-.201	-.169	-.026	-.135	-.090	-.095	-.107	-.088	-.160	.080
	42.3	-.012	-.172	-.040	-.142	-.099	-.123	-.121	-.098	-.173	.010
	70.7	-.083	-.190	-.058	-.161	-.118	-.119	-.130	-.041	-.192	.005
44.50	8.7	-.098	-.193	-.061	-.156	-.113	-.130	-.135	-.042	-.195	-.001
	42.3	-.043	-.204	-.069	-.161	-.125	-.138	-.146	-.049	-.208	-.010
	70.7	-.059	-.236	-.081	-.185	-.140	-.140	-.169	-.069	-.237	-.005
47.50	8.7	-.026	-.192	-.049	-.102	-.071	-.059	-.081	-.025	-.125	-.006
	42.3	.015	-.120	-.001	-.116	-.030	-.075	-.031	-.030	-.071	-.021
	70.7	-.039	-.198	-.031	-.109	-.080	-.080	-.090	-.035	-.131	-.020
50.50	8.7	-.025	-.041	-.035	-.021	-.035	-.035	-.038	.004	-.059	.015
	42.3	-.025	-.061	-.030	-.029	-.046	-.045	-.043	-.021	-.050	-.021
	70.7	-.025	-.025	-.030	-.025	-.036	-.036	-.038	-.030	-.039	-.018
53.50	8.7	- - -	-.046	- - -	-.040	- - -	-.025	- - -	-.018	- - -	-.008
	42.3	-.012	-.044	-.025	-.035	-.012	-.020	-.032	-.035	-.036	-.005
	70.7	-.010	-.020	-.018	-.032	-.010	-.025	-.021	-.018	-.021	-.004
56.50	8.7	-.025	-.043	-.025	-.051	-.051	-.035	-.031	-.028	-.053	-.019
	42.3	-.021	-.030	-.021	-.024	-.021	-.029	-.024	-.010	-.028	-.002
	70.7	-.016	-.031	-.018	-.012	-.020	-.025	-.011	-.021	-.021	-.005
59.50	8.7	-.008	-.025	-.029	-.029	-.006	-.015	-.025	-.009	-.023	.002
	42.3	-.011	-.025	-.029	-.029	-.011	-.020	-.020	-.021	-.020	0
	70.7	-.025	-.025	-.029	-.032	-.012	-.022	-.025	-.021	-.015	-.009

(k) M,0.92.

Station (in.)	Percent fuselage radius	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
10	8.7	0.136	0.050	0.100	0.077	0.070	0.070	0.066	0.081	0.035	0.100
	42.3	.132	.056	.100	.060	.076	.072	.052	.081	.040	.091
	70.7	.088	.050	.088	.060	.075	.075	.056	.070	.040	.076
15	8.7	.075	.080	.061	.082	.055	.055	.015	.042	.005	.060
	42.3	.069	.081	.054	.035	.039	.088	.080	.040	.008	.075
	70.7	.059	.081	.050	.081	.055	.055	.080	.035	.005	.040
20	8.7	.040	-.005	.021	-.005	.001	.001	-.009	.080	-.009	.039
	42.3	.036	-.002	.021	-.009	.018	0	-.001	.035	-.009	.050
	70.7	.025	-.011	.006	-.018	-.006	-.010	-.008	.033	-.013	.019
25	8.7	.031	-.001	.011	-.018	.011	-.001	-.008	.011	-.008	.083
	42.3	.025	0	.001	-.018	0	0	-.015	.011	-.015	.088
	70.7	.015	-.009	0	-.009	0	-.009	-.013	.005	-.013	.022
28.50	8.7	.031	-.001	.021	-.001	.009	0	-.009	.015	-.009	.035
	42.3	.089	.005	.019	.005	.020	0	-.009	.019	-.010	.033
	70.7	.021	0	.015	0	.009	.009	-.010	.005	-.008	.019
31.50	8.7	.050	.010	.040	.011	.022	.019	-.003	.025	-.003	.050
	42.3	.047	.010	.040	.020	.020	.020	.000	.030	.003	.047
	70.7	.051	.022	.046	.025	.039	.028	.012	.033	.015	.051
34.50	8.7	.082	-.018	.050	-.001	.080	.026	-.018	.044	-.020	.081
	42.3	.098	-.011	.070	.007	.030	.036	-.018	.051	-.020	.085
	70.7	.116	-.015	.089	.011	.035	.050	-.005	.075	-.031	.108
37.50	8.7	.028	-.080	.026	-.068	-.025	-.018	-.013	.038	-.106	.059
	42.3	.049	-.100	.010	-.072	-.042	-.015	-.031	.015	-.124	.058
	70.7	.070	-.130	.028	-.086	-.050	-.023	-.032	.020	-.130	.070
41.50	8.7	.019	-.160	-.080	-.129	-.060	-.071	-.130	-.030	-.160	.020
	42.3	.010	-.165	-.090	-.140	-.091	-.080	-.140	-.038	-.172	.019
	70.7	.004	-.185	-.040	-.151	-.110	-.091	-.160	-.046	-.160	.010
44.50	8.7	-.080	-.202	-.050	-.178	-.128	-.104	-.180	-.050	-.215	-.003
	42.3	-.088	-.210	-.061	-.180	-.136	-.113	-.201	-.058	-.229	-.012
	70.7	-.040	.240	-.051	.205	-.135	-.131	-.218	-.061	-.249	-.030
47.50	8.7	-.022	-.188	-.030	-.130	-.085	-.079	-.139	-.038	-.205	-.005
	42.3	.084	-.171	.011	-.130	-.025	-.071	-.081	-.041	-.181	-.009
	70.7	-.026	-.206	-.050	-.130	-.050	-.079	-.133	-.050	-.231	-.020
50.50	8.7	-.025	-.045	-.021	-.035	-.046	-.021	-.051	0	-.061	.021
	42.3	-.010	-.060	-.038	-.035	-.043	-.043	-.050	-.027	-.060	-.009
	70.7	-.011	-.040	-.019	-.040	-.035	-.025	-.041	-.020	-.051	-.009
53.50	8.7	- - -	-.031	- - -	-.031	- - -	-.021	- - -	-.015	- - -	.002
	42.3	0	-.030	-.009	-.030	-.025	-.028	-.029	-.025	-.040	0
	70.7	.008	-.011	-.009	-.020	.019	-.010	-.026	-.020	-.026	0
56.50	8.7	-.009	-.033	-.028	-.033	-.023	-.030	-.051	-.028	-.029	-.002
	42.3	-.008	-.028	-.016	-.030	-.030	-.020	-.045	-.010	-.040	.001
	70.7	.005	-.025	-.004	-.025	-.008	-.008	-.009	-.009	0	.007
59.50	8.7	.002	-.009	.005	-.004	-.010	-.009	-.020	-.003	-.028	.004
	42.3	-.003	-.010	-.005	-.010	-.009	-.011	-.028	-.018	-.016	-.004
	70.7	-.002	-.018	-.010	-.015	-.010	-.020	-.025	-.025	-.011	-.025

NACA

TABLE IV.— CONCLUDED.

(1) M,0.94.

Station (in.)	Percent fuselage radius	Angle of attack, degrees									
		-4		-2		0		2		4	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7	0.129	0.062	0.100	0.062	0.081	0.075	0.061	0.099	0.041	0.103
	42.3	.125	.068	.101	.069	.081	.078	.070	.099	.045	.099
	70.7	.112	.062	.095	.072	.081	.095	.070	.087	.048	.087
15	8.7	.082	.030	.068	.030	.042	.040	.028	.060	.010	.061
	42.3	.079	.025	.060	.025	.040	.033	.030	.050	.010	.051
	70.7	.068	.030	.059	.030	.042	.039	.032	.047	.010	.043
20	8.7	.040	.009	.020	.002	-.009	.002	0	.023	-.019	.025
	42.3	.038	-.010	.018	-.008	0	.001	0	.018	-.018	.018
	70.7	.023	-.010	.010	-.010	0	0	-.002	.015	-.020	.018
25	8.7	.031	-.012	.010	-.012	-.005	-.014	-.005	.015	-.021	.015
	42.3	.020	-.010	.008	-.012	-.010	-.012	-.010	.009	-.027	.010
	70.7	.015	-.010	-.003	-.010	-.010	-.003	-.009	.009	-.027	.009
28.50	8.7	.040	.009	.018	.005	.013	.013	.009	.031	-.002	.031
	42.3	.032	.012	.005	.005	.012	.012	.009	.029	0	.031
	70.7	.022	.009	.009	0	.009	.009	.009	.019	-.008	.021
31.50	8.7	.059	.019	.035	.010	.019	.019	.020	.045	.011	.051
	42.3	.055	.020	.030	.011	.030	.030	.022	.044	.012	.044
	70.7	.051	.025	.041	.021	.030	.030	.035	.049	.016	.051
34.50	8.7	.090	-.008	.065	.018	.035	.035	.019	.065	-.006	.085
	42.3	.099	-.005	.080	.020	.045	.050	.022	.078	-.004	.093
	70.7	.110	-.009	.092	.030	.055	.059	.022	.097	-.013	.113
37.50	8.7	.060	-.082	.029	-.050	-.017	-.010	-.050	.034	-.090	.060
	42.3	.050	-.090	.021	-.053	-.029	-.010	-.060	.041	-.112	.070
	70.7	.072	-.103	.041	-.069	-.012	-.020	-.060	.041	.117	.072
41.50	8.7	.020	-.148	.003	-.091	-.069	-.075	-.110	-.020	-.159	.010
	42.3	.014	-.157	-.010	-.099	-.080	-.083	-.120	-.028	-.171	0
	70.7	.007	-.174	-.019	-.115	-.095	-.090	-.138	-.035	-.190	-.002
44.50	8.7	-.026	-.191	-.049	-.141	-.123	-.119	-.168	-.055	-.219	-.029
	42.3	-.030	-.201	-.058	-.149	-.138	-.125	-.178	-.065	-.228	-.038
	70.7	-.049	-.231	-.072	-.170	-.155	-.149	-.198	-.085	-.250	-.041
47.50	8.7	-.028	-.230	-.070	-.230	-.138	-.128	-.195	-.052	-.253	-.040
	42.3	.019	-.232	-.024	-.210	-.085	-.140	-.130	-.060	-.185	-.045
	70.7	-.042	-.265	-.082	-.219	-.165	-.145	-.218	-.067	-.281	-.059
50.50	8.7	-.021	-.109	-.040	-.049	-.040	-.051	-.081	-.010	-.162	-.009
	42.3	-.020	-.129	-.033	-.074	-.049	-.048	-.072	-.032	-.150	-.040
	70.7	-.026	-.098	-.030	-.059	-.035	-.035	-.060	-.029	-.130	-.045
53.50	8.7	- - -	-.018	- - -	-.018	- - -	-.018	- - -	-.015	- - -	-.011
	42.3	0	-.018	-.015	-.018	-.014	-.018	-.019	-.010	-.030	-.010
	70.7	.005	-.005	.005	-.010	-.003	-.005	-.015	-.005	-.020	-.005
56.50	8.7	-.004	-.025	-.015	-.020	-.025	-.029	-.020	-.020	-.028	-.011
	42.3	-.002	-.013	-.020	-.028	-.018	-.025	-.009	-.018	-.022	-.009
	70.7	.010	0	-.025	-.005	.010	-.015	-.001	-.008	-.001	-.008
59.50	8.7	.009	.008	-.009	-.010	-.020	-.020	-.015	-.005	-.015	-.005
	42.3	.001	.001	-.010	-.010	-.021	-.021	-.015	.005	-.010	-.009
	70.7	.001	0	-.015	-.015	-.010	-.010	-.015	-.015	-.015	-.015

TABLE V.– PRESSURE COEFFICIENTS ON A WING HAVING A SWEEPBACK ANGLE OF 45° AND AN ASPECT RATIO OF 4 IN COMBINATION WITH A FUSELAGE.

(a) M,0.40.

[illegible]	[illegible]	Angle of attack, degrees											
		-4		-2		0		2		4		6	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	Angle of attack, degrees											
		8		10		12		14		16		18	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NACA

TABLE V.– CONTINUED

(b) M,0.60.

Percent semi-span	Percent chord	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
		Angle of attack, degrees											
15	0	0.245	---	0.489	---	0.510	---	0.470	---	0.398	---	-0.190	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	.198	-0.237	.088	-0.168	-.002	-0.063	-.108	0.007	-.280	0.170	-.138	0.250
	20	.085	-.230	.082	-.170	-.055	-.098	-.141	-.088	-.238	.098	-.316	.156
	30	.033	-.220	-.022	-.175	-.087	-.108	-.160	-.086	-.238	.054	-.307	.110
	40	.003	-.285	-.050	-.190	-.108	-.128	-.170	-.080	-.230	.012	-.285	.080
	50	-.088	---	-.096	---	-.128	---	-.178	---	-.285	---	-.270	---
	60	-.042	-.210	-.080	-.180	-.183	-.138	-.167	-.088	-.218	-.039	-.258	.008
	70	---	-.190	---	-.178	---	-.137	---	-.073	---	-.048	---	-.008
	80	-.048	-.150	-.073	-.140	-.100	-.110	-.125	-.075	-.158	-.030	-.180	-.018
	90	-.013	---	-.039	---	-.095	---	-.068	---	-.090	---	-.105	---
35	0	.198	---	.260	---	.318	---	.168	---	-.258	---	-.435	---
	5	.084	---	.135	---	-.055	---	-.278	---	-.512	---	-.745	---
	10	.130	-.368	.045	-.273	-.070	-.140	-.218	-.064	-.368	.145	-.772	.285
	20	.055	-.300	-.088	-.248	-.115	-.150	-.215	-.053	-.315	.055	-.449	.185
	30	.008	-.260	-.072	-.241	-.140	-.158	-.282	-.025	-.290	.013	-.380	.085
	40	-.082	---	-.088	---	-.148	---	-.208	---	-.260	---	-.385	---
	50	-.038	---	-.090	---	-.138	---	-.188	---	-.285	---	-.275	---
	60	---	-.158	---	-.160	---	-.120	---	-.080	---	-.080	---	-.080
	70	---	-.182	---	-.130	---	-.080	---	-.068	---	-.083	---	0
	80	---	-.055	---	-.078	---	-.085	---	-.035	---	.005	---	.008
	90	.038	---	.019	---	.021	---	0	---	-.010	---	-.080	---
55	0	-.131	---	.000	---	.411	---	.416	---	-.088	---	-.247	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	.146	-.180	.050	-.300	-.080	-.151	-.221	0	-.417	.141	-.888	.025
	20	.051	-.311	-.080	-.248	-.118	-.148	-.209	-.039	-.330	.061	-.665	.198
	30	.010	-.240	-.098	-.201	-.183	-.128	-.200	-.071	-.269	.088	-.418	.070
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.038	---	-.078	---	-.121	---	-.160	---	-.219	---	-.242	---
	60	-.038	-.040	-.061	-.039	-.100	-.010	-.139	.020	-.167	.051	-.158	.070
	70	-.010	-.105	-.039	-.110	-.058	-.068	-.118	-.079	-.109	-.081	-.121	.005
	80	.014	-.050	-.009	-.040	-.039	-.030	-.042	-.010	-.089	.008	-.060	.085
	90	.046	.019	.030	.009	.031	.020	.020	.046	.020	.041	.002	.055
75	0	-.130	---	.263	---	.468	---	.333	---	-.250	---	-.388	---
	5	.218	---	.138	---	-.054	---	-.295	---	-.607	---	-.808	---
	10	.138	-.400	.059	-.272	-.077	-.141	-.213	.025	-.485	.154	-.762	.209
	20	.038	-.314	-.010	-.220	-.108	-.137	-.193	-.083	-.338	.072	-.685	.120
	30	-.018	-.278	-.043	-.208	-.128	-.156	-.156	-.098	-.270	.008	-.518	.040
	40	-.030	---	-.058	---	-.115	---	-.133	---	-.230	---	-.390	---
	50	-.060	---	-.072	---	-.120	---	-.148	---	-.198	---	-.270	---
	60	-.043	-.155	-.098	-.130	-.096	-.115	-.097	-.068	-.140	-.038	-.185	-.098
	70	-.038	-.100	-.083	-.078	-.058	-.008	-.100	-.038	-.100	-.088	-.118	-.050
	80	.005	-.040	.005	-.003	-.012	-.012	-.030	.005	-.040	.009	-.053	-.088
	90	.034	---	.048	---	.028	---	.060	---	.048	---	.002	---
95	0	-.240	---	.168	---	.430	---	.378	---	.198	---	-.115	---
	5	.158	---	.080	---	-.009	---	-.316	---	-.575	---	-.500	---
	10	.053	-.345	-.008	-.268	-.113	-.148	-.224	-.048	-.373	.095	-.448	.118
	20	-.058	-.219	-.070	-.187	-.123	-.131	-.150	-.087	-.243	-.030	-.337	0
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.088	-.168	-.075	-.150	-.100	-.145	-.130	-.120	-.145	-.180	-.282	-.080
	50	-.080	---	-.080	---	-.100	---	-.118	---	-.135	---	-.187	---
	60	-.053	-.077	-.057	-.053	-.080	-.063	-.063	-.037	-.093	-.037	-.130	-.090
	70	-.058	-.055	-.080	-.015	-.075	-.088	-.080	-.088	-.050	-.080	-.135	-.058
	80	-.010	.085	.008	.083	.032	.018	.008	-.030	0	.018	-.078	.088
	90	.038	---	.048	---	.069	---	.075	---	.055	---	-.080	---

Percent semi-span	Percent chord	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface	14 Upper surface	14 Lower surface	16 Upper surface	16 Lower surface
		Angle of attack, degrees									
15	0	-0.648	---	-1.060	---	-1.310	---	-1.718	---	-0.866	---
	5	---	---	---	---	---	---	---	---	---	---
	10	-.520	0.348	-.633	0.440	-.778	0.508	-.982	0.570	-1.220	0.665
	20	-.470	.237	-.570	.385	-.688	.380	-.765	.438	-.870	.508
	30	-.428	.173	-.508	.250	-.560	.300	-.645	.358	-.738	.416
	40	-.392	.115	-.448	.190	-.498	.238	-.568	.284	-.647	.348
	50	-.358	---	-.400	---	-.445	---	-.508	---	-.540	---
	60	-.335	.058	-.368	.111	-.388	.158	-.448	.185	-.538	.218
	70	---	.028	---	.085	---	.118	---	.140	---	.180
	80	-.236	.080	-.236	.068	-.245	.096	-.297	.108	-.368	.138
	90	-.140	---	-.148	---	-.148	---	-.195	---	-.344	---
35	0	-.660	---	-.910	---	-.938	---	-.960	---	-.858	---
	5	-.959	---	-1.260	---	-1.375	---	-1.446	---	-1.340	---
	10	-.820	.301	-1.261	.375	-1.559	.318	-1.483	.480	-1.358	.780
	20	-.728	.184	-1.340	.260	-1.640	.230	-1.635	.369	-1.339	.411
	30	-.605	.129	-1.216	.187	-1.354	.165	-1.535	.284	-1.309	.389
	40	-.471	---	-.780	---	-1.010	---	-1.340	---	-1.239	---
	50	-.365	---	-.285	---	-.330	.180	-1.010	---	-1.005	---
	60	-.220	.041	-.099	.075	-.130	.078	-.545	.130	-.841	.141
	70	-.126	.085	-.060	.035	-.060	.078	-.345	.100	-.981	.108
	80	---	.038	---	.058	---	.060	---	.080	---	.088
	90	-.050	---	-.082	---	-.084	---	-.120	---	-.489	---
55	0	-.635	---	-.900	---	-1.088	---	-1.130	---	-1.088	---
	5	---	---	---	---	---	---	---	---	---	---
	10	-1.038	.280	-.969	.375	-.912	.401	-.881	.439	-.868	.470
	20	-.877	.189	-.940	.268	-.905	.289	-.860	.380	-.887	.377
	30	-.792	.198	-.980	.188	-.980	.220	-.835	.230	-.800	.078
	40	---	---	---	---	---	---	---	---	---	---
	50	-.981	---	-.810	---	-.885	---	-.840	---	-.771	---
	60	-.879	.088	-.735	.116	-.885	.109	-.815	.175	-.734	.118
	70	-.142	.018	-.580	.059	-.720	.045	-.739	.118	-.700	-.008
	80	-.075	.085	-.440	.053	-.620	.028	-.788	.085	-.680	-.090
	90	.001	.048	-.240	.049	-.460	-.059	-.685	-.042	-.687	-.178
75	0	-.675	---	-.713	---	-.682	---	-.675	---	-.634	---
	5	-.833	---	-.665	---	-.595	---	-.535	---	-.560	---
	10	-.812	.268	-.638	.338	-.558	.370	-.530	.408	-.778	.418
	20	-.795	.259	-.600	.218	-.583	.241	-.510	.298	-.530	.308
	30	-.743	.078	-.570	.138	-.492	.147	-.490	.198	-.500	.205
	40	-.670	---	-.543	---	-.483	---	-.470	---	-.487	---
	50	-.568	---	-.517	---	-.473	---	-.460	---	-.473	---
	60	-.450	-.034	-.488	-.018	-.470	-.017	-.460	-.017	-.478	-.017
	70	-.352	-.030	-.450	-.050	-.495	-.070	-.495	-.058	-.450	-.063
	80	-.212	-.018	-.433	-.082	-.445	-.110	-.433	-.115	-.438	-.115
	90	-.126	---	-.383	---	-.410	---	-.410	---	-.390	---
95	0	-.425	---	-.325	---	-.290	---	-.390	---	-.408	---
	5	-.460	---	-.307	---	-.300	---	-.315	---	-.305	---
	10	-.425	.170	-.298	.190	-.298	.209	-.288	.247	-.380	.270
	20	-.370	.039	-.275	.053	-.280	.068	-.280	.093	-.278	.113
	30	---	---	---	---	---	---	---	---	---	---
	40	-.280	-.043	-.237	-.078	-.288	-.098	-.260	-.028	-.280	-.055
	50	-.243	---	-.200	---	-.243	---	-.263	---	-.280	---
	60	-.198	-.032	-.183	-.075	-.214	-.098	-.257	-.070	-.275	-.048
	70	-.190	-.058	-.118	-.090	-.238	-.100	-.260	-.100	-.258	-.115
	80	-.178	-.088	-.200	-.068	-.280	-.068	-.258	-.095	-.270	-.108
	90	-.160	---	-.180	---	-.308	---	-.233	---	-.268	---

TABLE V.— CONTINUED

(c) M,0.70.

Percent semi-span	Percent chord	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
15	0	0.310	---	0.469	---	0.596	---	0.588	---	0.385	---
	5	---	---	---	---	---	---	---	---	---	---
	10	.148	-0.242	.260	-0.140	-.215	-0.042	-.085	0.040	-.085	0.136
	20	.073	-.232	-.016	-.161	-.078	-.098	-.135	-.080	-.047	.026
	30	.085	-.230	-.092	-.165	-.108	-.108	-.155	-.080	-.065	.085
	40	-.040	-.238	-.080	-.218	-.128	-.116	-.158	-.078	-.066	-.088
	50	-.040	---	-.108	---	-.142	---	-.160	---	-.066	---
	60	-.089	-.226	-.126	-.203	-.135	-.148	-.180	-.100	-.070	-.064
	70	---	-.210	---	-.158	---	-.129	---	-.101	---	-.073
	80	-.084	-.171	-.140	-.127	-.100	-.110	-.082	-.080	-.138	-.078
	90	-.030	---	-.065	---	-.030	---	-.079	---	-.118	---
35	0	.160	---	.305	---	.350	---	.280	---	-.108	---
	5	.210	---	.105	---	-.072	---	-.035	---	-.300	---
	10	.105	-.178	.040	.008	-.088	-.125	-.190	.006	-.178	.112
	20	.040	-.185	-.057	-.085	-.123	-.145	-.205	-.050	-.130	.035
	30	-.020	-.195	-.072	-.144	-.158	-.160	-.238	-.088	-.135	-.038
	40	-.040	---	-.098	---	-.155	---	-.201	---	-.170	---
	50	-.085	---	-.097	---	-.147	---	-.188	---	-.158	---
	60	-.088	-.173	-.098	-.132	-.070	-.118	-.161	-.075	---	-.072
	70	---	-.142	---	-.123	-.108	-.108	---	-.068	-.112	-.040
	80	---	-.078	---	-.058	---	-.060	---	-.022	---	-.053
	90	.088	---	.010	---	.008	---	.038	---	-.050	---
55	0	-.247	---	.130	---	.468	---	.438	---	.195	---
	5	---	---	---	---	---	---	---	---	---	---
	10	.138	-.108	.049	-.095	-.088	-.118	-.187	-.033	-.132	.102
	20	.238	-.135	-.027	-.140	-.135	-.184	-.222	-.062	-.350	.198
	30	-.318	-.245	-.070	-.208	-.155	-.184	-.280	-.073	-.317	-.208
	40	---	---	---	---	---	---	---	---	---	---
	50	-.264	---	-.090	---	-.134	---	-.188	---	-.245	---
	60	-.247	-.209	-.089	-.081	-.112	.022	-.148	.052	-.325	.095
	70	-.088	-.301	-.066	-.098	-.065	-.098	-.100	-.088	-.225	-.045
	80	-.080	-.209	-.055	-.040	-.018	-.118	-.111	-.065	-.088	-.020
	90	.024	.024	.034	.049	.038	.065	.080	.065	.088	.055
75	0	-.036	---	.369	---	.468	---	.355	---	-.280	---
	5	.084	---	.154	---	-.090	---	-.287	---	-.568	---
	10	.136	-.146	.055	-.085	-.128	-.141	-.283	-.050	-.348	.138
	20	.033	-.164	-.088	-.154	-.138	-.158	-.318	-.088	-.345	.059
	30	-.012	-.245	-.078	-.139	-.158	-.178	-.288	-.089	-.345	.088
	40	-.065	---	-.080	---	-.148	---	-.172	---	-.270	---
	50	-.056	---	-.100	---	-.128	---	-.187	---	-.228	---
	60	-.069	-.145	-.089	-.150	-.123	-.138	-.138	-.088	-.140	-.083
	70	-.045	-.123	-.050	-.103	-.058	-.088	-.097	-.050	-.077	-.088
	80	-.017	-.038	-.015	-.040	-.039	-.017	-.040	-.010	-.040	-.050
	90	.085	---	.015	---	.085	---	.080	---	.085	---
95	0	-.115	---	.230	---	.147	---	.103	---	.030	---
	5	.148	---	.049	---	-.187	---	-.284	---	-.565	---
	10	.061	---	-.028	-.085	-.138	-.158	-.242	-.058	-.500	.095
	20	-.064	---	-.098	-.088	-.143	-.143	-.187	-.130	-.359	-.055
	30	---	---	---	---	---	---	---	---	---	---
	40	-.085	---	-.128	-.132	-.128	-.138	-.135	-.186	-.158	-.185
	50	-.098	---	-.128	---	-.128	---	-.132	---	-.140	---
	60	-.054	---	-.085	-.088	-.058	-.058	-.088	-.058	-.080	-.088
	70	-.054	---	-.088	-.088	-.042	-.088	-.038	-.088	-.080	-.088
	80	-.083	---	-.058	-.021	-.058	-.058	-.018	-.088	-.035	-.018
	90	---	---	.033	---	.088	---	.053	---	.088	---

Percent semi-span	Percent chord	Angle of attack, degrees: 6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface	14 Upper surface	14 Lower surface
15	0	-0.048	---	-0.380	---	-0.598	---	-0.880	---	-1.078	---
	5	---	---	---	---	---	---	---	---	---	---
	10	-.385	0.254	-.468	0.134	-.728	0.132	-.888	0.580	-1.080	0.515
	20	-.353	.159	-.550	.210	-.630	.152	-.748	.388	-.955	.375
	30	-.348	.114	-.469	.165	-.590	.261	-.680	.273	-.858	.360
	40	-.340	.088	-.458	.134	-.501	.188	-.510	.130	-.653	.208
	50	-.348	---	-.350	---	-.428	---	-.490	---	-.515	---
	60	-.277	.002	-.303	.083	-.411	.039	-.438	.138	-.463	.158
	70	---	-.018	---	.012	---	.158	---	.288	---	.158
	80	-.215	-.015	-.221	.008	-.283	.048	-.141	.058	-.345	.180
	90	-.175	---	-.158	---	-.388	---	-.387	---	-.883	---
35	0	-.360	---	-.588	---	-.968	---	-.856	---	-.868	---
	5	-.378	---	-.938	---	-1.235	---	-1.315	---	-1.360	---
	10	-.450	.215	-.850	.188	-1.223	.330	-1.173	.131	-1.350	.185
	20	-.300	.135	-.700	.178	-1.230	.342	-1.450	.248	-1.530	.188
	30	-.333	.060	-.711	.111	-1.128	.170	-1.318	.218	-1.338	.188
	40	-.305	---	-.493	---	-.983	---	-1.178	---	-1.088	---
	50	-.308	---	-.358	---	-.680	---	-.820	---	-1.040	---
	60	-.128	-.008	-.288	.085	-.126	.058	-.260	.088	-.730	.185
	70	-.130	-.018	-.150	.085	-.075	.038	-.138	.085	-.180	.088
	80	---	.008	---	.088	---	.088	---	.040	---	---
	90	-.030	---	-.082	---	-.098	---	-.057	---	-.318	---
55	0	-.368	---	-.448	---	-.724	---	-.804	---	-.885	---
	5	---	---	---	---	---	---	---	---	---	---
	10	-.885	.212	-1.028	.138	-.988	.242	-.872	.388	-.880	.387
	20	-.748	.132	-.797	.178	-.855	.238	-.828	.373	-.778	.348
	30	-.681	.078	-.848	.135	-.845	.248	-.840	.194	-.773	.258
	40	---	---	---	---	---	---	---	---	---	---
	50	-.348	---	-.357	---	-.283	---	-.848	---	-.748	---
	60	-.280	.085	-.338	.088	-.780	.280	-.768	.280	-.787	.285
	70	-.138	-.030	-.138	.138	-.688	.080	-.318	.018	-.318	-.034
	80	-.088	.088	-.085	.135	-.495	.088	-.408	-.088	-.480	-.040
	90	0	.038	0	.081	-.395	.008	-.348	-.318	-.438	-.138
75	0	-.412	---	-.685	---	-.384	---	-.361	---	-.804	---
	5	-.888	---	-.890	---	-.348	---	-.678	---	-.685	---
	10	-.871	.118	-.878	.172	-.793	.085	-.680	.051	-.898	.185
	20	-.758	.080	-.843	.158	-.730	.118	-.588	.139	-.630	.158
	30	-.684	-.038	-.814	-.018	-.651	.088	-.688	.088	-.630	.078
	40	-.512	---	-.734	---	-.637	---	-.548	---	-.588	---
	50	-.428	---	-.688	---	-.617	---	-.778	---	-.508	---
	60	-.388	-.135	-.590	-.135	-.590	-.138	-.568	-.138	-.568	-.135
	70	-.338	-.130	-.568	-.188	-.653	-.188	-.318	-.185	-.533	-.135
	80	-.338	-.130	-.388	-.114	-.540	-.138	-.540	-.287	-.540	-.138
	90	-.131	---	-.375	---	-.493	---	-.450	---	-.405	---
95	0	-.480	---	-.338	---	-.198	---	-.478	---	-.377	---
	5	-.734	---	-.856	---	-.342	---	-.388	---	-.514	---
	10	-.148	---	-.188	.150	-.388	.188	-.388	.217	-.311	.184
	20	-.359	-.080	-.371	.118	-.397	.242	-.488	.055	-.398	.093
	30	---	---	---	---	---	---	---	---	---	---
	40	-.204	-.080	-.374	-.080	-.246	-.088	-.245	-.058	-.271	-.088
	50	-.332	---	-.345	---	-.388	---	-.248	---	-.278	---
	60	-.328	-.048	-.325	-.048	-.337	-.088	-.438	-.100	-.368	-.088
	70	-.136	-.054	-.138	-.088	-.387	-.135	-.351	-.131	-.379	-.136
	80	-.108	-.014	-.178	-.093	-.385	-.097	-.328	-.134	-.377	-.134
	90	-.080	---	-.188	---	-.315	---	-.338	---	-.359	---

NACA

TABLE V.— CONTINUED

(d) M,0.75.

Percent semi-span	Percent chord	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
15	0	0.340	---	0.500	---	0.540	---	0.564	---	0.360	---
	5	---	---	---	---	---	---	---	---	---	---
	10	.148	-0.242	.059	-0.160	.008	-0.085	-.100	0.047	-.218	0.124
	20	.078	-.433	.008	-.169	-.078	-.100	-.154	.028	-.236	.059
	30	.039	-.458	-.090	-.178	-.130	-.114	-.150	-.078	-.246	.047
	40	-.010	-.465	-.063	-.185	-.139	-.140	-.171	-.055	-.250	-.018
	50	-.042	---	-.088	---	-.135	---	-.152	---	-.248	---
	60	-.056	-.438	-.105	-.200	-.127	-.158	-.178	-.085	-.236	-.060
	70	---	-.385	---	-.190	---	-.157	---	-.128	---	-.082
	80	-.059	-.181	-.090	-.160	-.113	-.138	-.142	-.085	-.190	-.068
	90	-.038	---	-.050	---	-.088	---	-.081	---	-.120	---
35	0	.174	---	.310	---	.304	---	.210	---	.010	---
	5	.040	---	.088	---	-.050	---	-.060	---	-.140	---
	10	.119	-.360	.038	-.458	-.078	-.150	-.205	-.010	-.138	.118
	20	.038	-.339	-.040	-.350	-.102	-.168	-.220	-.069	-.200	.036
	30	-.015	-.308	-.061	-.239	-.134	-.180	-.233	-.091	-.223	-.005
	40	-.046	---	-.105	---	-.141	---	-.236	---	-.229	---
	50	-.050	---	-.099	---	-.136	---	-.229	---	-.235	---
	60	-.030	-.183	-.041	-.155	-.080	-.183	-.115	-.085	-.181	-.089
	70	---	-.150	---	-.130	---	-.099	---	-.079	-.108	-.058
	80	---	-.072	---	-.071	---	-.050	---	-.038	---	.001
	90	.088	---	.015	---	.018	---	-.001	---	.013	---
55	0	-.173	---	.199	---	.180	---	.157	---	.153	---
	5	---	---	---	---	---	---	---	---	---	---
	10	.187	-.316	.085	-.237	-.057	-.181	-.280	-.005	-.290	.101
	20	.083	-.338	-.040	-.238	-.136	-.178	-.213	-.061	-.238	.038
	30	-.004	-.287	-.087	-.215	-.140	-.158	-.207	-.080	-.197	.018
	40	---	---	---	---	---	---	---	---	---	---
	50	-.049	---	-.108	---	-.130	---	-.170	---	-.186	---
	60	0	-.037	-.080	-.087	-.108	-.089	-.135	.040	-.178	.047
	70	-.041	-.110	-.050	-.118	-.074	-.080	-.171	-.038	-.110	-.081
	80	.001	-.096	-.080	-.040	-.082	-.080	-.048	.011	-.018	.078
	90	.032	.039	.030	.040	.035	.038	.034	.039	.039	.068
75	0	.046	---	.360	---	.188	---	.179	---	.078	---
	5	.194	---	.084	---	-.021	---	-.368	---	-.140	---
	10	.118	-.145	.036	-.288	-.057	-.158	-.238	0	-.109	.128
	20	.032	-.349	-.048	-.230	-.099	-.155	-.222	-.043	-.188	.048
	30	-.021	-.294	-.080	-.234	-.123	-.178	-.211	-.088	-.189	-.033
	40	-.039	---	-.080	---	-.080	---	-.158	---	-.135	---
	50	-.073	---	-.100	---	-.120	---	-.173	---	-.200	---
	60	-.028	-.160	-.080	-.147	-.098	-.119	-.120	-.080	-.140	-.085
	70	-.041	-.098	-.053	-.098	-.057	-.058	-.098	-.040	-.086	-.092
	80	-.009	-.030	-.028	-.038	-.030	-.019	-.057	-.009	-.088	.089
	90	.034	---	.033	---	.040	---	.033	---	.040	---
95	0	-.093	---	.260	---	.135	---	.108	---	.109	---
	5	.114	---	.040	---	-.088	---	-.330	---	-.301	---
	10	.042	-.307	-.038	-.263	-.133	-.158	-.247	---	-.178	-.088
	20	-.068	-.230	-.106	-.198	-.189	-.159	-.185	---	-.240	-.038
	30	---	---	---	---	---	---	---	---	---	---
	40	-.088	-.180	-.100	-.133	-.120	-.100	-.188	---	-.153	-.095
	50	-.090	---	-.108	---	-.108	---	-.188	---	-.138	---
	60	-.050	-.063	-.038	-.048	-.063	-.049	-.063	---	-.058	-.038
	70	-.05	-.030	-.038	-.033	-.043	-.028	-.088	---	-.048	-.057
	80	0	.063	.013	.038	-.030	.028	-.088	---	.030	.038
	90	.085	---	.060	---	.050	---	---	---	.020	---

Percent semi-span	Percent chord	Angle of attack, degrees: 6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface
15	0	0.088	---	-0.130	---	-0.400	---	-0.608	---
	5	---	---	---	---	---	---	---	---
	10	-.361	0.240	-.469	0.385	-.678	0.416	-.847	0.518
	20	-.350	.160	-.450	.230	-.581	.340	-.711	.390
	30	-.348	.110	-.140	.170	-.540	.250	-.637	.118
	40	-.342	.085	-.421	.120	-.499	.196	-.540	.194
	50	-.135	---	-.390	---	-.450	---	-.490	---
	60	-.211	.009	-.388	.040	-.430	.118	-.450	.130
	70	---	-.080	---	.080	---	.070	---	.130
	80	-.229	-.019	-.259	.018	-.370	.068	-.338	.088
	90	-.135	---	-.159	---	-.360	---	-.300	---
35	0	-.478	---	-.430	---	-.636	---	-.749	---
	5	-.750	---	-.898	---	-1.179	---	-1.328	---
	10	-.841	.211	-.831	.278	-1.350	.368	-1.323	.416
	20	-.908	.111	-.871	.174	-1.170	.248	-1.304	.259
	30	-.336	.059	-.314	.109	-1.136	.179	-1.188	.219
	40	-.306	---	-.388	---	-.897	---	-1.150	---
	50	-.118	---	-.430	---	-.347	---	-.888	---
	60	-.188	.006	-.221	.029	-.183	.087	-.458	.086
	70	-.130	-.009	-.126	.018	-.080	.040	-.370	.024
	80	---	.018	---	.040	---	.085	---	.043
	90	-.081	---	-.097	---	-.086	---	-.130	---
55	0	-.081	---	-.348	---	-.689	---	-.790	---
	5	---	---	---	---	---	---	---	---
	10	-.848	.828	-1.030	.884	-.988	.348	-.861	.398
	20	-.679	.198	-.947	.181	-.931	.278	-.835	.289
	30	-.189	.081	-.390	.181	-.986	.168	-.818	.201
	40	---	---	---	---	---	---	---	---
	50	-.240	---	-.328	---	-.781	---	-.761	---
	60	-.180	.059	-.378	.205	-.693	.089	-.728	.118
	70	-.130	.004	-.075	.080	-.571	.083	-.678	.081
	80	-.049	.030	-.036	.038	-.475	.088	-.631	-.031
	90	.080	.080	.031	.031	-.354	.018	-.569	-.110
75	0	-.881	---	-.111	---	-.548	---	-.680	---
	5	-.760	---	-.389	---	-.817	---	-.970	---
	10	-.715	.230	-.748	.278	-.618	.330	-.977	.155
	20	-.648	.135	-.720	.302	-.968	.213	-.937	.173
	30	-.750	.080	-.690	.091	-.590	.132	-.928	.140
	40	-.480	---	-.640	---	-.218	---	-.821	---
	50	-.314	---	-.388	---	-.487	---	-.678	---
	60	-.209	-.006	-.303	-.003	-.373	-.085	-.460	-.051
	70	-.130	0	-.135	.008	-.138	-.078	-.318	-.098
	80	-.041	.083	-.088	.088	-.138	-.090	-.312	-.133
	90	.008	---	-.190	---	-.369	---	-.391	---
95	0	-.840	---	-.112	---	-.159	---	-.840	---
	5	-.118	---	-.133	---	-.317	---	-.928	---
	10	-.478	.181	-.400	.178	-.300	.190	-.388	.185
	20	-.389	-.018	-.354	.080	-.278	.038	-.859	.058
	30	---	---	---	---	---	---	---	---
	40	-.250	-.078	-.258	-.083	-.217	-.077	-.250	-.085
	50	-.210	---	-.280	---	-.190	---	-.234	---
	60	-.159	-.050	-.180	-.048	-.180	-.060	-.243	-.097
	70	-.138	-.050	-.180	-.078	-.200	-.115	-.261	-.130
	80	-.109	-.083	-.178	-.048	-.208	-.088	-.251	-.115
	90	-.079	---	-.171	---	-.208	---	-.248	---

NACA

TABLE V.– CONTINUED

(e) M,0.80.

Percent semi-span	Percent chord	Angle of attack, degrees															
		-4		-2		0		2		4		6		8		10	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
15	0	0.380	---	0.580	---	0.570	---	0.515	---	0.408	---	0.140	---	0.098	---	0.292	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.138	-0.228	.095	-0.135	-.048	-0.055	-.150	0.057	-.218	0.168	-.350	0.259	-.380	0.355	-.682	0.435
	20	.040	-.218	.020	-.148	-.041	-.078	-.162	.007	-.218	.094	-.341	.178	-.476	.250	-.688	.380
	30	.031	-.236	-.031	-.180	-.089	-.118	-.185	-.036	-.238	.045	-.347	.115	-.476	.156	-.573	.240
	40	0	-.244	-.061	-.198	-.117	-.130	-.205	-.078	-.246	.020	-.345	.072	-.458	.138	-.587	.188
	50	-.041	---	-.091	---	-.139	---	-.224	---	-.260	---	-.349	---	-.446	---	-.551	---
	60	-.038	-.239	-.109	-.222	-.150	-.152	-.200	-.102	-.253	-.017	-.334	.008	-.419	.060	-.518	.108
	70	---	-.230	---	-.202	---	-.161	---	-.198	---	-.087	---	-.085	---	.026	---	.055
	80	-.021	-.180	-.085	-.168	-.125	-.131	-.165	-.187	-.188	-.048	-.239	-.018	-.263	.080	-.308	.048
	90	-.005	---	-.060	---	-.071	---	-.128	---	-.108	---	-.142	---	-.167	---	-.183	---
35	0	.219	---	.324	---	.358	---	.215	---	.085	---	-.129	---	-.380	---	-.709	---
	5	.200	---	.076	---	-.055	---	-.282	---	-.463	---	-.760	---	-.984	---	-1.288	---
	10	.120	-.368	.080	-.272	-.072	-.140	-.223	.010	-.358	.117	-.645	.207	-.930	.292	-1.198	.378
	20	.075	-.132	-.053	-.272	-.123	-.160	-.235	-.035	-.382	.052	-.515	.102	-.815	.138	-1.188	.254
	30	-.008	-.300	-.098	-.265	-.158	-.172	-.250	-.068	-.318	-.020	-.450	.052	-.700	.120	-1.077	.182
	40	-.040	---	-.112	---	-.165	---	-.237	---	-.298	---	-.400	---	-.558	---	-.882	---
	50	-.037	---	-.121	---	-.160	---	-.227	---	-.262	---	-.334	---	-.427	---	-.618	---
	60	-.008	-.178	-.060	-.178	-.080	-.125	-.135	-.087	-.148	-.052	-.238	-.004	-.247	.040	-.234	.080
	70	---	-.140	---	-.145	---	-.105	---	-.105	-.125	-.052	-.150	-.083	-.168	.020	-.095	.050
	80	---	-.070	---	-.060	---	-.055	---	-.055	---	-.002	---	.008	---	.058	---	.049
	90	.095	---	0	---	.005	---	.008	---	.005	---	-.093	---	-.049	---	-.025	---
55	0	-.092	---	.218	---	.144	---	.435	---	.205	---	-.047	---	-.338	---	-.598	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.090	-.140	.020	-.322	-.097	-.186	-.270	-.007	-.435	.050	-.868	.282	-1.108	.378	-.986	.345
	20	.008	-.173	-.053	-.182	-.130	-.180	-.258	-.053	-.378	.017	-.727	.117	-1.048	.180	-.950	.239
	30	-.038	-.100	-.083	-.243	-.150	-.165	-.248	-.088	-.338	-.018	-.507	.108	-.985	.118	-.989	.168
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.088	---	-.118	---	-.147	---	-.208	---	-.263	---	-.298	---	-.538	---	-.845	---
	60	-.080	-.122	-.102	-.042	-.128	-.082	-.168	.018	-.205	.024	-.195	.095	-.278	.106	-.762	.088
	70	-.024	-.145	-.068	-.113	-.075	-.103	-.073	-.072	-.137	-.057	-.130	-.002	-.105	.085	-.639	.018
	80	.018	-.030	-.038	-.032	-.018	-.058	-.048	-.068	-.075	-.020	-.060	.083	-.034	.083	-.588	.008
	90	.048	.003	.018	.084	.086	.018	.084	.098	-.087	.022	.010	.041	.082	.083	.378	-.082
75	0	.113	---	.378	---	.460	---	.398	---	.030	---	-.190	---	-.428	---	-.548	---
	5	.138	---	.100	---	-.063	---	-.358	---	-.733	---	-.830	---	-.750	---	-.642	---
	10	.119	-.437	.040	-.295	-.060	-.150	-.368	.008	-.459	.138	-.778	.218	-.788	.280	-.623	.383
	20	.025	-.350	-.032	-.238	-.120	-.148	-.243	-.040	-.358	.092	-.692	.113	-.700	.238	-.590	.205
	30	-.028	-.256	-.073	-.240	-.140	-.173	-.235	-.088	-.308	-.018	-.586	.046	-.673	.099	-.557	.137
	40	-.048	---	-.089	---	-.090	---	-.203	---	-.347	---	-.478	---	-.650	---	-.538	---
	50	-.070	---	-.180	---	-.138	---	-.192	---	-.214	---	-.368	---	-.618	---	-.513	---
	60	-.057	-.153	-.072	-.136	-.123	0	-.135	-.080	-.148	-.050	-.264	-.052	-.549	-.009	-.494	-.050
	70	-.036	-.098	-.058	-.086	-.063	-.060	-.088	-.059	-.083	-.025	-.149	-.083	-.508	-.032	-.457	-.088
	80	-.004	-.025	-.005	-.017	-.005	-.085	-.015	-.080	-.018	0	-.071	0	-.402	-.008	-.449	-.125
	90	.098	---	.035	---	.043	---	.035	---	.041	---	0	---	-.385	---	-.411	---
95	0	.002	---	.368	---	.160	---	.374	---	.100	---	-.410	---	-.113	---	-.190	---
	5	.152	---	.044	---	-.113	---	-.397	---	-.612	---	-.734	---	-.404	---	-.138	---
	10	.048	-.308	-.035	-.270	-.141	-.159	-.389	-.028	-.420	.078	-.476	.132	-.380	.191	-.315	.209
	20	-.065	-.206	-.108	-.179	-.153	-.141	-.234	-.079	-.248	-.050	-.303	-.010	-.138	.032	-.292	.048
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.070	-.147	-.098	-.145	-.117	-.140	-.145	-.142	-.160	-.095	-.240	-.075	-.250	-.080	-.240	-.070
	50	-.075	---	-.098	---	-.109	---	-.128	---	-.130	---	-.288	---	-.284	---	-.289	---
	60	-.030	-.042	-.042	-.030	-.060	-.084	-.060	-.021	-.085	-.025	-.142	-.085	-.182	-.042	-.217	-.080
	70	-.019	-.002	-.029	-.012	-.038	-.001	-.037	-.008	-.040	-.023	-.138	-.040	-.190	-.070	-.238	-.128
	80	.021	.048	.015	.050	.014	.058	.002	.059	.011	.035	-.099	.014	-.196	-.041	-.259	-.081
	90	.077	---	.077	---	.094	---	.077	---	.057	---	-.060	---	-.178	---	-.215	---

(f) M,0.82.

Percent semi-span	Percent chord	Angle of attack, degrees															
		-4		-2		0		2		4		6		8		10	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
15	0	0.410	---	0.585	---	0.578	---	0.555	---	0.390	---	0.130	---	-0.049	---	-0.160	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.135	-0.232	.070	-0.165	-.011	-0.082	-.100	0.047	-.230	0.151	-.400	0.240	-.515	0.348	-.630	0.352
	20	.075	-.210	.002	-.148	-.080	-.085	-.141	.002	-.240	.100	-.380	.155	-.470	.251	-.540	.290
	30	.025	-.238	-.025	-.195	-.108	-.123	-.152	-.032	-.245	.050	-.381	.100	-.460	.190	-.514	.238
	40	-.005	-.247	-.060	-.202	-.131	-.140	-.180	-.040	-.228	.011	-.381	.056	-.458	.140	-.542	.170
	50	-.050	---	-.090	---	-.160	---	-.198	---	-.279	---	-.391	---	-.440	---	-.530	---
	60	-.080	-.257	-.118	-.221	-.170	-.133	-.200	-.102	-.270	-.040	-.379	-.010	-.440	.057	-.589	.088
	70	---	-.268	---	-.242	---	-.158	---	-.132	---	-.058	---	-.052	---	.005	---	.058
	80	-.070	-.205	-.105	-.185	-.147	-.182	-.154	-.097	-.210	-.095	-.261	-.035	-.290	.019	-.319	.032
	90	-.035	---	-.063	---	-.095	---	-.095	---	-.129	---	-.185	---	-.132	---	-.188	---
35	0	.211	---	.325	---	.352	---	.250	---	.031	---	-.287	---	-.325	---	-.412	---
	5	.180	---	.098	---	-.073	---	-.232	---	-.480	---	-.780	---	-.970	---	-1.150	---
	10	.089	-.370	.030	-.283	-.098	-.148	-.198	0	-.367	.131	-.648	.288	-.848	.308	-1.128	.134
	20	.019	-.350	-.045	-.279	-.145	-.173	-.214	-.052	-.338	.039	-.530	.118	-.809	.179	-1.074	.218
	30	-.031	-.318	-.089	-.269	-.180	-.190	-.230	-.089	-.331	0	-.462	.071	-.693	.138	-.959	.158
	40	-.058	---	-.110	---	-.190	---	-.288	---	-.310	---	-.420	---	-.754	---	-.778	---
	50	-.080	---	-.118	---	-.150	---	-.218	---	-.278	---	-.370	---	-.618	---	-.530	---
	60	-.085	.207	-.050	-.186	-.091	-.150	-.118	-.080	-.148	-.029	-.198	-.009	-.885	.050	-.857	.063
	70	---	-.161	---	-.141	---	-.130	---	-.062	---	-.030	---	0	---	.086	---	.034
	80	---	-.081	---	-.088	---	-.062	---	-.081	---	.008	---	.019	---	.048	---	.041
	90	.088	---	.009	---	.001	---	.016	---	.011	---	-.018	---	-.029	---	-.018	---
55	0	-.007	---	.388	---	.154	---	.118	---	.230	---	-.030	---	-.270	---	-.485	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.118	-.402	.087	-.141	-.110	-.178	-.248	-.083	-.460	.120	-.878	.216	-1.100	.088	-1.073	.115
	20	.085	-.143	-.061	-.088	-.149	-.170	-.248	-.078	-.362	.050	-.818	.110	-1.050	.178	-1.074	.213
	30	-.080	-.272	-.077	-.238	-.170	-.154	-.245	-.081	-.138	.024	-.588	.072	-.588	.138	-1.087	.148
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.064	---	-.164	---	-.160	---	-.208	---	-.262	---	.240	---	-.502	---	-.908	---
	60	-.071	-.029	-.090	-.089	-.130	.010	-.148	-.089	-.181	.077	-.192	.015	-.372	.108	-.738	.115
	70	-.083	-.115	-.060	-.115	-.080	-.080	-.113	-.095	-.168	-.085	-.111	-.088	-.490	.020	-.482	.080
	80	0	-.040	-.085	-.050	-.040	-.025	-.080	-.040	-.041	.008	-.070	.030	-.488	.048	-.212	.082
	90	.045	.088	.028	.018	.037	.025	.018	.018	.004	.098	.018	.050	-.078	.021	-.044	.038
75	0	.137	---	.348	---	.488	---	.320	---	.056	---	-.175	---	-.381	---	-.495	---
	5	.128	---	.100	---	-.088	---	-.317	---	-.432	---	-.728	---	-.748	---	-.680	---
	10	.088	-.445	.035	-.330	-.108	-.190	-.352	-.012	-.478	.177	-.758	.233	-.722	.279	-.653	.112
	20	.004	-.370	-.059	-.280	-.144	-.152	-.247	-.087	-.348	.068	-.702	.133	-.620	.174	-.605	.212
	30	-.085	-.312	-.085	-.278	-.162	-.178	-.278	-.102	-.310	0	-.638	.064	-.622	.095	-.572	.185
	40	-.088	---	-.081	---	-.150	---	-.304	---	-.255	---	-.555	---	-.645	---	-.548	---
	50	-.095	---	-.119	---	-.158	---	-.195	---	-.210	---	-.425	---	-.611	---	-.548	---
	60	-.072	-.132	-.088	-.138	-.130	-.133	-.178	-.058	-.142	-.050	-.300	-.020	-.560	-.010	-.521	-.018
	70	-.052	-.102	-.049	-.089	-.085	-.100	-.088	-.069	-.074	-.033	-.180	-.018	-.490	-.010	-.467	-.045
	80	-.080	-.098	-.020	-.082	-.080	-.052	-.030	-.020	-.015	.002	-.080	.027	-.419	.017	-.468	-.085
	90	.030	---	.085	---	.030	---	.088	---	.042	---	.005	---	-.319	---	-.411	---
95	0	.018	---	.318	---	.464	---	.411	---	.180	---	-.008	---	-.468	---	-.145	---
	5	.119	---	.078	---	-.130	---	-.118	---	-.488	---	-.104	---	-.338	---	-.347	---
	10	.017	-.417	-.078	-.326	-.150	-.186	-.247	-.052	-.458	.028	-.453	.130	-.174	.172	-.138	.197
	20	-.058	-.248	-.115	-.285	-.184	-.225	-.197	-.118	-.260	-.055	-.505	-.087	-.110	.080	-.297	.088
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.110	-.180	-.090	-.174	-.142	-.150	-.180	-.122	-.160	-.101	-.258	-.085	-.255	-.088	-.238	-.097
	50	-.104	---	-.100	---	-.116	---	-.105	---	-.132	---	-.208	---	-.288	---	-.282	---
	60	-.075	-.042	-.050	-.042	-.070	-.060	-.069	-.050	-.088	-.038	-.157	-.042	-.180	-.063	-.281	-.088
	70	-.040	-.042	-.050	-.045	-.030	-.030	-.080	-.080	-.047	-.028	-.137	-.055	-.190	-.090	-.285	-.125
	80	.000	.032	.020	.028	.032	.057	.035	.035	.008	.038	-.113	-.082	-.280	-.085	-.230	-.082
	90	.050	---	.050	---	.065	---	.075	---	.058	---	-.100	---	-.281	---	-.284	---

NACA

TABLE V.– CONTINUED

(g) M,0.84.

Percent semispan	Percent chord	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface	8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface
15	0	0.435	---	0.540	---	0.598	---	0.565	---	0.440	---	0.248	---	0.048	---	-0.033	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.129	-0.255	.070	-0.154	-.010	-0.085	-.100	0.050	-.195	0.175	-.318	0.258	-.448	0.368	-.540	0.410
	20	.075	-.288	.019	-.150	-.046	-.050	-.115	.010	-.200	.128	-.328	.178	-.409	.270	-.483	.313
	30	.085	-.240	-.018	-.165	-.079	-.065	-.140	-.015	-.213	.087	-.335	.114	-.407	.218	-.458	.220
	40	0	-.255	-.058	-.190	-.099	-.100	-.160	-.058	-.265	.040	-.335	.080	-.389	.143	-.458	.088
	50	-.040	---	-.088	---	-.120	---	-.150	---	-.240	---	-.383	---	-.398	---	-.450	---
	60	-.060	-.278	-.098	-.212	-.139	-.185	-.190	-.096	-.248	-.010	-.330	.034	-.418	.080	-.480	.114
	70	---	-.285	---	-.230	---	-.159	---	-.128	---	-.054	---	-.030	---	.040	---	.058
	80	-.061	-.210	-.090	-.178	-.110	-.116	-.135	-.090	-.180	-.085	-.240	-.008	-.262	.048	-.307	.088
	90	-.040	---	-.058	---	-.060	---	-.085	---	-.095	---	-.135	---	-.130	---	-.138	---
35	0	.225	---	.330	---	.370	---	.262	---	.039	---	-.108	---	-.278	---	-.364	---
	5	.203	---	.095	---	-.078	---	-.230	---	-.472	---	-.708	---	-.956	---	-1.126	---
	10	.182	-.398	.033	-.290	-.064	-.198	-.165	-.007	-.375	.105	-.591	.218	-.887	.264	-1.073	.381
	20	.037	-.372	-.040	-.305	-.138	-.152	-.215	-.062	-.357	.012	-.495	.089	-.764	.168	-1.069	.154
	30	-.080	-.335	-.080	-.276	-.187	-.167	-.241	-.090	-.377	-.080	-.401	.054	-.707	.113	-.948	.147
	40	-.050	---	-.112	---	-.173	---	-.234	---	-.340	---	-.499	---	-.612	---	-.888	---
	50	-.068	---	-.115	---	-.168	---	-.215	---	-.302	---	-.346	---	-.452	---	-.618	---
	60	-.012	-.204	-.048	.180	-.080	-.134	-.114	-.085	-.170	-.033	-.178	.008	-.033	.033	-.270	.049
	70	---	-.160	---	-.148	---	-.117	---	-.073	---	-.055	---	-.007	---	.063	---	.083
	80	---	-.073	---	-.073	---	-.047	---	-.088	---	-.085	---	.012	---	.032	---	.038
	90	.086	---	.012	---	.012	---	.018	---	-.008	---	-.022	---	-.088	---	-.018	---
55	0	-.067	---	.193	---	.455	---	.433	---	.212	---	.008	---	-.208	---	-.368	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.160	-.428	.004	-.380	-.136	-.191	-.285	-.073	-.505	.068	-.877	.160	-1.180	.274	-1.135	.295
	20	.018	-.410	-.063	-.382	-.176	-.190	-.284	-.108	-.432	-.004	-.738	.070	-1.098	.172	-1.083	.175
	30	-.031	-.389	-.100	-.278	-.198	-.175	-.283	-.113	-.393	-.048	-.555	.019	-.918	.112	-1.088	.185
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.082	---	-.138	---	-.183	---	-.247	---	-.300	---	-.316	---	-.468	---	-.888	---
	60	-.080	-.054	-.118	-.053	-.160	-.084	-.205	-.014	-.245	.008	-.257	.034	-.258	.098	-.672	.066
	70	-.050	-.148	-.088	-.145	-.100	-.118	.150	-.100	-.165	-.060	-.287	-.050	-.110	.018	-.448	-.020
	80	-.089	-.087	-.058	-.075	-.050	-.072	-.085	-.055	-.098	-.048	-.098	-.083	-.047	.088	-.308	.003
	90	.013	.009	.005	-.002	.008	.015	-.080	.008	-.088	-.008	-.068	.010	-.085	.045	-.150	.018
75	0	-.130	---	.389	---	.506	---	.480	---	.080	---	-.128	---	-.333	---	-.440	---
	5	.811	---	.118	---	-.074	---	-.387	---	-.638	---	-.404	---	-.768	---	-.698	---
	10	.189	-.465	.054	-.388	-.080	-.182	-.218	-.001	-.478	.111	-.739	.015	-.788	.273	-.662	.298
	20	.039	-.370	-.082	-.468	-.120	-.188	-.218	-.040	-.370	.058	-.640	.104	-.699	.178	-.687	.188
	30	-.088	-.312	-.070	-.265	-.132	-.145	-.281	-.085	-.385	-.050	-.573	.036	-.689	.098	-.597	.108
	40	-.041	---	-.077	---	-.125	---	-.184	---	-.260	---	-.457	---	-.632	---	-.579	---
	50	-.078	---	-.103	---	-.128	---	-.178	---	-.280	---	-.360	---	-.587	---	-.540	---
	60	-.056	-.131	-.070	-.140	-.080	-.106	-.115	.078	-.144	-.058	-.425	-.035	-.382	-.409	-.388	-.035
	70	-.038	-.085	-.050	-.088	-.042	-.085	-.060	-.043	-.087	-.035	-.133	-.015	-.452	-.030	-.404	-.070
	80	0	-.015	0	-.015	.007	0	-.088	0	-.080	0	-.088	0	-.308	-.002	-.468	-.094
	90	.040	---	.040	---	.058	---	.050	---	.045	---	.008	---	-.278	---	-.412	---
95	0	.008	---	.252	---	.481	---	.419	---	.128	---	.080	---	-.074	---	-.185	---
	5	.178	---	.008	---	-.119	---	-.314	---	-.648	---	-.370	---	-.406	---	-.348	---
	10	.050	-.459	-.008	-.388	-.148	-.157	-.868	-.045	-.463	.068	-.498	.113	-.379	.181	-.330	.190
	20	-.078	-.251	-.109	-.289	-.148	-.140	-.187	-.109	-.258	-.085	-.348	-.035	-.334	.014	-.297	.082
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.088	-.184	-.098	-.163	-.081	-.168	-.120	-.128	-.161	-.105	-.238	-.088	-.258	-.100	-.239	-.100
	50	-.098	---	-.098	---	-.098	---	-.109	---	-.135	---	-.190	---	-.281	---	-.285	---
	60	-.034	-.063	-.047	-.047	-.021	-.088	-.034	-.088	-.008	-.033	-.138	-.035	-.187	-.060	-.199	-.090
	70	-.083	-.040	-.048	-.025	-.007	-.081	-.009	-.001	-.038	-.088	-.117	-.050	-.185	-.088	-.281	-.128
	80	.020	.080	.088	.088	.053	.046	.088	.068	.016	.030	-.079	-.008	-.159	-.068	-.285	-.108
	90	.050	---	.069	---	.090	---	.100	---	.044	---	-.068	---	-.198	---	-.288	---

(h) M,0.86.

Percent semispan	Percent chord	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface	8, Upper surface	8, Lower surface
15	0	0.478	---	0.598	---	0.598	---	0.570	---	0.455	---	0.241	---	0.098	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.112	-0.185	.067	-0.152	-.002	-0.038	-.095	0.045	-.190	0.160	-.339	0.218	-.490	0.355
	20	.073	-.188	.023	-.148	-.056	-.058	-.128	.028	-.210	.073	-.351	.140	-.498	.268
	30	.018	-.190	-.018	-.160	-.090	-.088	-.135	-.038	-.230	.071	-.378	.099	-.430	.218
	40	-.088	-.212	-.045	-.190	-.108	-.115	-.175	-.055	-.240	.030	-.368	.050	-.489	.155
	50	-.052	---	-.073	---	-.134	---	-.195	---	-.258	---	-.380	---	-.480	---
	60	-.065	-.241	-.090	-.220	-.152	-.150	-.200	-.100	-.268	-.085	-.410	-.030	-.460	.072
	70	---	-.262	---	-.251	---	-.180	---	-.142	---	-.070	---	-.075	---	.088
	80	-.068	-.195	-.098	-.185	-.134	-.140	-.174	-.100	-.205	-.040	-.380	-.058	-.408	.030
	90	-.030	---	-.054	---	-.077	---	-.097	---	-.110	---	-.188	---	-.178	---
35	0	.270	---	.350	---	.378	---	.261	---	.108	---	-.090	---	-.238	---
	5	.154	---	.101	---	-.060	---	-.238	---	-.434	---	-.719	---	-.946	---
	10	.088	-.309	.040	-.271	-.078	-.130	-.190	-.013	-.345	.200	-.602	.199	-.895	.098
	20	.009	-.301	-.039	-.290	-.130	-.180	-.224	-.071	-.340	.080	-.498	.079	-.889	.178
	30	-.031	-.209	-.061	-.271	-.170	-.178	-.258	-.099	-.358	-.018	-.482	.039	-.788	.131
	40	-.062	---	-.101	---	-.181	---	-.258	---	-.340	---	-.479	---	-.645	---
	50	-.088	---	-.130	---	-.181	---	-.238	---	-.300	---	-.414	---	-.548	---
	60	-.080	-.188	-.045	-.179	-.082	-.148	-.120	-.100	-.159	-.039	-.205	-.017	-.298	.048
	70	---	-.140	---	-.100	---	-.091	---	-.084	---	-.048	---	-.084	---	.098
	80	---	-.088	---	-.068	---	-.049	---	-.037	---	-.008	---	0	---	.048
	90	.030	---	.012	---	.011	---	.001	---	.050	---	-.082	---	-.009	---
55	0	.111	---	.230	---	.459	---	.478	---	.379	---	.088	---	-.174	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.078	-.389	.030	-.339	-.106	-.176	-.236	-.083	-.460	.106	-.770	.180	-1.109	.369
	20	-.001	-.130	-.039	-.291	-.140	-.171	-.242	-.068	-.358	.036	-.609	.099	-1.070	.381
	30	-.040	-.258	-.078	-.241	-.163	-.158	-.239	-.070	-.341	.007	-.483	.049	-.840	.117
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.079	---	-.100	---	-.155	---	-.199	---	-.250	---	-.201	---	-.470	---
	60	-.057	-.018	-.080	-.030	-.130	-.003	-.155	.014	-.190	.060	-.215	.078	-.380	.180
	70	-.030	-.105	-.056	-.118	-.077	-.090	-.090	-.058	-.188	-.035	-.133	-.035	-.191	.017
	80	.001	-.031	-.082	-.045	-.020	.001	-.037	-.009	-.045	.030	-.068	.083	-.109	.010
	90	.042	.030	.031	.027	.032	.050	.089	.042	.009	.042	.001	.042	-.033	.041
75	0	.283	---	.388	---	.503	---	.408	---	.322	---	-.138	---	-.118	---
	5	.112	---	.109	---	-.060	---	-.309	---	-.073	---	-.898	---	-.795	---
	10	.066	-.350	.045	-.318	-.091	-.350	-.348	-.312	-.450	.130	-.808	.194	-.738	.094
	20	-.002	-.383	-.030	-.278	-.130	-.354	-.543	-.405	-.363	.457	-.611	.101	-.677	.109
	30	-.057	-.278	-.085	-.261	-.140	-.178	-.298	-.100	-.380	-.010	-.580	.088	-.690	.109
	40	-.068	---	.058	---	-.142	---	-.210	---	-.256	---	-.417	---	-.635	---
	50	-.091	---	-.148	---	-.150	---	-.199	---	-.218	---	-.389	---	-.565	---
	60	-.085	-.140	-.080	-.148	-.109	-.199	-.137	-.200	-.137	-.099	-.465	-.098	-.311	0
	70	-.030	-.072	-.015	-.008	-.085	-.038	-.078	-.068	-.008	-.038	-.124	-.042	-.430	-.011
	80	-.008	-.008	0	-.017	-.002	-.016	-.010	-.010	-.010	-.010	-.050	.007	-.363	-.050
	90	.040	---	.040	---	.049	---	.042	---	.054	---	.019	---	-.463	---
95	0	.186	---	.269	---	.487	---	.408	---	.154	---	-.010	---	-.074	---
	5	.109	---	.078	---	-.119	---	-.351	---	-.497	---	-.682	---	-.480	---
	10	.012	-.359	-.081	-.335	-.140	-.170	-.385	-.458	-.460	.462	-.576	.112	-.382	.188
	20	-.089	-.300	-.110	-.200	-.148	-.158	-.208	-.131	-.235	-.073	-.453	-.037	-.348	.088
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.081	-.155	-.099	-.168	-.090	-.133	-.187	-.117	-.147	-.108	-.273	-.187	-.258	-.088
	50	-.079	---	-.089	---	-.079	---	-.138	---	-.138	---	-.219	---	-.280	---
	60	-.082	-.039	-.039	-.039	-.018	-.084	-.050	-.086	-.079	-.026	-.190	-.058	-.180	-.050
	70	-.012	-.013	-.088	-.088	.000	.000	-.010	-.010	-.088	-.014	-.141	-.058	-.189	-.088
	80	.040	.048	.036	.040	.054	.050	.087	.050	.036	.038	-.098	.001	-.184	-.050
	90	.079	---	.073	---	.098	---	.090	---	.073	---	-.079	---	-.187	---

NACA

TABLE V.– CONTINUED

(i) M,0.88.

Percent semispan	Percent chord	Angle of attack, degrees													
		-4		-2		0		2		4		6		8	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
15	0	0.480	---	0.570	---	0.609	---	0.592	---	0.464	---	0.268	---	0.125	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.135	-0.150	.090	-0.135	-.028	-0.019	-.082	0.007	-.200	0.160	-.132	0.242	-.440	0.350
	20	.080	-.180	.025	-.138	-.080	-.048	-.118	.004	-.222	.075	-.305	.190	-.408	.307
	30	.030	-.089	-.049	-.155	-.099	-.082	-.149	-.039	-.258	.041	-.365	.138	-.422	.183
	40	.010	-.081	-.055	-.188	-.110	-.100	-.160	-.048	-.233	.028	-.332	.088	-.428	.170
	50	-.040	---	-.071	---	-.142	---	-.185	---	-.272	---	-.350	---	-.422	---
	60	-.060	-.087	-.098	-.239	-.160	-.155	-.204	-.100	-.300	-.040	-.350	.027	-.462	.063
	70	---	-.300	---	-.280	---	-.180	---	-.130	---	-.090	---	-.038	---	.030
	80	-.060	-.030	-.089	-.200	-.147	-.149	-.180	-.100	-.280	-.088	-.390	-.015	-.488	.005
	90	-.032	---	-.078	---	-.085	---	-.100	---	-.134	---	-.138	---	-.314	---
35	0	.268	---	.355	---	.373	---	.220	---	.093	---	-.008	---	-.876	---
	5	.173	---	.097	---	-.082	---	-.233	---	-.452	---	-.743	---	-1.088	---
	10	.098	-.138	.057	-.280	-.048	-.132	-.190	-.016	-.353	.114	-.688	.227	-.950	.262
	20	.012	-.361	-.048	-.298	-.148	-.152	-.232	-.075	-.358	.007	-.708	.098	-.803	.151
	30	-.037	-.386	-.056	-.288	-.172	-.150	-.249	-.107	-.378	-.088	-.653	.059	-.878	.134
	40	-.088	---	-.128	---	-.207	---	-.280	---	-.393	---	-.705	---	-.689	---
	50	-.085	---	-.139	---	-.185	---	-.250	---	-.364	---	-.485	---	-.564	---
	60	-.083	-.218	-.094	-.198	-.188	-.145	-.138	-.165	-.178	-.049	-.300	-.002	-.432	.030
	70	---	-.154	---	-.148	---	-.138	---	-.086	---	-.049	---	-.013	---	.008
	80	---	-.072	---	-.074	---	-.090	---	-.040	---	-.012	---	.015	---	.022
	90	.002	---	.010	---	.015	---	.030	---	-.008	---	-.008	---	0	---
55	0	.087	---	.250	---	.479	---	.140	---	.087	---	.042	---	-.382	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.098	-.368	.029	-.350	-.189	-.158	-.042	-.044	-.450	.080	-.860	.178	-1.076	.242
	20	.017	-.363	-.044	-.312	-.168	-.130	-.262	-.083	-.434	.088	-.887	.105	-.900	.172
	30	-.030	-.250	-.080	-.262	-.150	-.150	-.261	-.089	-.400	-.018	-.869	.098	-.835	.108
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.098	---	-.108	---	-.187	---	-.214	---	-.207	---	-.875	---	-.518	---
	60	-.058	-.088	-.092	-.080	-.114	.002	-.169	.082	-.280	.042	-.318	.074	-.357	.109
	70	-.088	-.118	-.068	-.069	-.078	-.085	-.164	-.070	-.138	-.080	-.138	-.011	-.278	.018
	80	0	-.038	-.080	-.040	-.087	-.030	-.050	-.018	-.085	-.082	-.065	.013	-.148	.008
	90	.049	.038	.049	.088	.030	.035	.049	.040	.089	.040	.008	.048	-.087	.088
75	0	.287	---	.378	---	.516	---	.419	---	.138	---	.138	---	-.388	---
	5	.163	---	.108	---	-.111	---	-.318	---	-.797	---	-1.173	---	-.288	---
	10	.109	-.383	.048	-.387	-.183	-.118	-.347	-.012	-.549	.182	-1.040	.208	-.888	.270
	20	.038	-.387	-.087	-.080	-.147	-.131	-.346	-.081	-.358	.050	-.738	.127	-.732	.121
	30	-.050	-.086	-.077	-.073	-.174	.143	-.254	-.100	-.347	-.018	-.487	.052	-.648	.072
	40	-.049	---	-.088	---	-.158	---	-.268	---	-.368	---	-.213	---	-.388	---
	50	-.075	---	-.111	---	-.168	---	-.204	---	-.230	---	-.217	---	-.335	---
	60	-.049	-.133	-.077	-.140	-.188	-.103	-.135	-.091	-.148	-.067	-.143	-.038	-.475	-.030
	70	-.019	-.048	-.040	-.075	-.048	-.059	-.098	-.058	-.062	-.044	-.088	-.085	-.432	-.085
	80	0	-.008	.018	-.020	0	0	-.081	-.018	-.417	.008	-.018	.088	-.348	-.049
	90	.063	---	.049	---	.048	---	.082	---	.049	---	.049	---	-.348	---
95	0	.050	---	.298	---	.150	---	.418	---	.158	---	-.077	---	-.480	---
	5	.129	---	.087	---	-.153	---	-.388	---	-.318	---	-.849	---	-.469	---
	10	.080	-.108	-.038	-.188	-.178	-.167	-.302	-.080	-.327	.071	-.609	.150	-.415	.175
	20	-.058	-.213	-.138	-.158	-.168	-.154	-.197	-.196	-.336	-.080	-.549	-.036	-.368	-.003
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.098	-.174	-.118	-.160	-.130	-.131	-.130	-.128	-.159	-.108	-.300	-.102	-.276	-.120
	50	-.080	---	-.025	---	-.073	---	-.111	---	-.139	---	-.264	---	-.248	---
	60	-.031	-.053	-.013	-.016	-.087	-.028	-.035	-.085	-.053	-.035	-.182	-.046	-.889	-.071
	70	-.010	-.032	-.015	-.081	-.082	-.018	-.089	-.004	-.088	-.088	-.164	-.030	-.212	-.097
	80	.035	.035	.038	.035	.059	.068	.050	.098	.088	.044	-.105	.088	-.288	-.070
	90	.050	---	.088	---	.308	---	.098	---	.060	---	-.087	---	-.304	---

(j) M,0.90.

Percent semispan	Percent chord	Angle of attack, degrees													
		-4		-2		0		2		4		6		8	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
15	0	0.490	---	0.588	---	0.608	---	0.590	---	0.462	---	0.308	---	0.100	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.133	-0.187	.050	-0.107	0	-0.017	-.089	0.062	-.195	0.128	-.380	0.240	-.436	0.350
	20	.070	-.182	.015	-.113	-.040	-.048	-.138	.087	-.218	.109	-.328	.190	-.436	.245
	30	.080	-.248	-.023	-.177	-.073	-.128	-.160	-.040	-.249	.071	-.335	.087	-.449	.154
	40	0	-.230	-.050	-.168	-.100	-.105	-.169	-.048	-.279	.088	-.316	.085	-.439	.140
	50	-.050	---	-.090	---	-.118	---	-.198	---	-.287	---	-.339	---	-.439	---
	60	-.072	-.097	-.112	-.230	-.140	-.160	-.218	-.185	-.300	-.040	-.379	.011	-.456	.020
	70	---	-.335	---	-.276	---	-.083	---	-.150	---	-.095	---	-.048	---	.001
	80	-.060	-.308	-.118	-.238	-.148	-.160	-.280	-.138	-.394	-.062	-.414	-.088	-.492	.012
	90	-.047	---	-.078	---	-.088	---	-.118	---	-.808	---	-.348	---	-.478	---
35	0	.279	---	.377	---	.385	---	.281	---	.188	---	-.041	---	-.130	---
	5	.149	---	.071	---	-.048	---	-.219	---	-.430	---	-.798	---	-1.068	---
	10	.091	-.331	.019	-.238	-.097	-.141	-.179	-.094	-.331	.115	-.688	.081	-.988	.299
	20	.011	-.348	-.059	-.280	-.138	-.180	-.288	-.068	-.348	.018	-.485	.078	-.778	.150
	30	-.041	-.339	-.108	-.268	-.180	-.208	-.260	-.100	-.360	-.080	-.476	.050	-.688	.128
	40	-.079	---	-.138	---	-.085	---	-.290	---	-.392	---	-.316	---	-.591	---
	50	-.058	---	-.140	---	-.159	---	-.280	---	-.388	---	-.498	---	-.304	---
	60	-.033	-.311	-.068	-.216	-.098	-.169	-.141	-.100	-.271	-.051	-.379	-.080	-.449	.085
	70	---	-.164	---	-.140	---	-.139	-.128	-.061	-.141	-.050	-.388	-.036	-.39	0
	80	---	-.071	---	-.071	---	-.056	---	-.030	---	-.008	---	-.041	---	.019
	90	.082	---	.015	---	.011	---	.017	---	.018	---	-.080	---	.019	---
55	0	.097	---	.316	---	.140	---	.145	---	.368	---	.122	---	-.075	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.002	-.387	.008	-.311	-.096	-.199	-.264	-.008	-.495	.049	-.940	.158	-.904	.245
	20	0	-.408	-.059	-.308	-.140	-.193	-.270	-.088	-.492	.019	-.345	.100	-.888	.148
	30	-.040	-.362	-.080	-.260	-.145	-.177	-.268	-.088	-.438	-.012	-.390	.050	-.530	.118
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.082	---	-.115	---	-.150	---	-.230	---	-.253	---	-.148	---	-.450	---
	60	-.070	-.080	-.096	-.013	-.123	.038	-.170	.004	-.150	.094	-.191	.078	-.315	.100
	70	-.036	-.112	-.075	-.090	-.074	-.188	-.105	-.068	-.117	-.046	-.072	-.015	-.214	.005
	80	-.018	-.039	-.016	-.080	-.032	-.085	-.030	-.015	-.050	.022	-.080	.080	-.105	.008
	90	.030	.035	.035	.035	.035	-.043	.045	.040	.045	.040	.025	.048	.025	.040
75	0	.200	---	.485	---	.503	---	.411	---	.142	---	-.077	---	-.288	---
	5	.138	---	.089	---	-.088	---	-.138	---	-.808	---	-1.150	---	-1.105	---
	10	.073	-.425	.098	-.305	-.072	-.170	-.249	-.016	-.604	.115	-1.091	.303	-1.088	.248
	20	0	-.360	-.043	-.282	-.120	-.163	-.250	-.047	-.385	.038	-.917	.112	-.908	.163
	30	-.048	-.288	-.090	-.258	-.150	-.135	-.280	-.100	-.136	-.088	-.638	.045	-.727	.088
	40	-.088	---	-.095	---	-.132	---	-.232	---	-.278	---	-.379	---	-.488	---
	50	-.100	---	-.180	---	-.148	---	-.280	---	-.258	---	-.330	---	-.518	---
	60	-.073	-.139	-.088	-.140	-.103	-.120	-.139	-.100	-.139	-.072	-.139	-.038	-.430	-.032
	70	-.044	-.078	-.038	-.078	-.040	-.060	-.070	-.050	-.055	-.050	-.055	-.030	-.385	-.080
	80	-.013	-.083	0	-.014	0	.008	-.009	.002	-.049	.002	-.009	.008	-.380	-.043
	90	.030	---	.077	---	.048	---	.007	---	.050	---	.088	---	-.239	---
95	0	.083	---	.340	---	.471	---	.145	---	.164	---	-.495	---	-.077	---
	5	.119	---	.037	---	-.189	---	-.372	---	-.878	---	-.590	---	-.142	---
	10	.020	-.348	-.088	-.330	-.154	-.206	-.335	-.048	-.422	.082	-.610	.142	-.411	.173
	20	-.132	-.805	-.147	-.168	-.178	-.177	-.178	-.150	-.288	-.109	-.608	-.405	-.356	-.034
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.308	-.183	-.105	-.138	-.165	-.149	-.126	-.135	-.144	-.110	-.385	-.118	-.380	-.125
	50	-.095	---	-.095	---	-.095	---	-.118	---	-.125	---	-.262	---	-.288	---
	60	-.040	-.060	-.030	-.086	-.014	-.014	-.008	-.030	-.050	-.050	-.185	-.006	-.738	-.083
	70	-.082	-.040	-.008	-.085	.002	-.004	-.080	0	-.030	-.085	-.178	-.039	-.438	-.111
	80	.004	.039	.040	.078	.060	-.078	.089	-.050	.080	.040	-.108	.040	-.237	-.079
	90	.053	---	.098	---	.046	---	.068	---	.053	---	-.065	---	-.241	---

TABLE V.– CONCLUDED

(k) M,0.92.

Percent semispan	Percent chord	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface	7, Upper surface	7, Lower surface
15	0	0.585	---	0.590	---	0.600	---	0.608	---	0.499	---	0.330	---	0.230	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.116	-0.130	.070	-0.090	0	-0.019	-.100	0.060	-.289	0.180	-.318	0.300	-.375	0.340
	20	.070	-.168	.012	-.140	-.250	-.070	-.130	0	-.280	.120	-.296	.200	-.368	.238
	30	.030	-.179	-.020	-.148	-.287	-.120	-.160	-.015	-.250	.060	-.309	.151	-.361	.151
	40	.012	-.206	-.045	-.180	-.102	-.102	-.167	-.055	-.240	.011	-.305	.106	-.360	.130
	50	-.050	---	-.068	---	-.148	---	-.202	---	-.270	---	-.328	---	-.378	---
	60	-.068	-.265	-.118	-.249	-.170	-.182	-.230	-.119	-.316	-.040	-.345	.022	-.412	.039
	70	---	-.318	---	-.290	---	-.240	---	-.170	---	-.111	---	-.095	---	-.020
	80	-.089	-.308	-.140	-.290	-.200	-.227	-.271	-.140	-.355	-.091	-.348	-.024	-.450	-.035
	90	-.056	---	-.090	---	-.125	---	-.198	---	-.330	---	-.400	---	-.450	---
35	0	.315	---	.379	---	.405	---	.300	---	.137	---	-.035	---	.255	---
	5	.168	---	.000	---	-.048	---	-.285	---	-.435	---	-.948	---	-1.118	---
	10	.098	-.082	.002	-.265	-.072	-.145	-.185	-.018	-.521	.118	-.535	.223	-.436	.065
	20	.018	-.302	-.057	-.202	-.140	-.183	-.225	-.077	-.388	.088	-.438	.102	-.498	.140
	30	-.038	-.308	-.120	-.297	-.196	-.280	-.271	-.113	-.378	-.087	-.449	.059	-.494	.094
	40	-.073	---	-.147	---	-.225	---	-.292	---	-.383	---	-.460	---	-.508	---
	50	-.150	---	-.168	---	-.246	---	-.312	---	-.392	---	-.473	---	-.514	---
	60	-.040	-.314	-.088	-.325	-.158	-.245	-.288	-.128	-.389	-.048	-.378	-.018	-.542	-.028
	70	-.125	-.268	-.112	-.260	-.168	-.181	-.178	-.098	-.395	-.089	-.348	-.046	-.388	-.028
	80	---	-.065	---	-.098	---	-.073	---	-.040	---	-.025	---	-.013	---	.008
	90	.032	---	-.003	---	-.012	---	.016	---	.030	---	-.049	---	-.084	---
55	0	.140	---	.280	---	.458	---	.468	---	.330	---	.138	---	.440	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.056	-.350	.088	-.349	-.112	-.219	-.372	-.000	-.419	.080	-2.808	.188	-1.128	.283
	20	-.021	-.350	-.065	-.348	-.172	-.237	-.099	-.052	-.430	.018	-.583	.094	-.843	.125
	30	-.062	-.351	-.100	-.372	-.195	-.230	-.330	-.098	-.458	-.088	-.530	.048	-.807	.030
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.094	---	-.120	---	-.162	---	-.212	---	-.447	---	-.598	---	-.638	---
	60	-.010	-.010	-.105	-.030	-.157	0	-.255	.087	-.235	.033	-.487	.078	-.570	.088
	70	-.048	-.090	-.043	-.112	-.100	-.110	-.208	-.079	-.095	-.049	-.138	-.088	-.188	-.080
	80	-.010	-.003	-.030	-.035	-.038	-.035	-.053	-.012	-.030	.088	-.890	.010	-.455	.020
	90	.038	.048	.080	.037	.026	.038	.023	.040	.023	.040	.018	.040	.080	.040
75	0	.258	---	.370	---	.480	---	.404	---	.167	---	-.050	---	-.140	---
	5	.094	---	.080	---	-.088	---	-.387	---	-.800	---	-1.150	---	-1.240	---
	10	.055	-.370	.079	-.438	-.100	-.210	-.293	-.008	-.698	.109	-1.075	.191	-1.150	.232
	20	-.009	-.168	-.047	-.350	-.140	-.189	-.278	-.070	-.170	.030	-.970	.100	-1.409	.130
	30	-.065	-.340	-.101	-.320	-.173	-.210	-.263	-.112	-.452	-.038	-.080	.040	-.932	.060
	40	-.068	---	-.068	---	-.155	---	-.289	---	-.380	---	-.348	---	-.610	---
	50	-.100	---	-.128	---	-.173	---	-.289	---	-.192	---	-.199	---	-.588	---
	60	-.072	-.130	-.089	-.165	-.130	-.160	-.156	-.118	-.118	-.073	-.137	-.040	-.395	-.035
	70	-.033	-.060	-.060	-.098	-.047	-.081	-.075	-.075	-.058	-.075	-.075	-.035	-.137	-.032
	80	.009	-.011	0	-.019	-.080	-.015	-.018	-.033	-.080	0	-.080	0	-.459	0
	90	.050	---	.040	---	.044	---	.049	---	.058	---	.049	---	.019	---
95	0	.143	---	.269	---	.488	---	.440	---	.199	---	-.088	---	-.087	---
	5	.099	---	.067	---	-.100	---	-.402	---	-.888	---	-.977	---	-.735	---
	10	0	---	-.037	---	-.147	---	-.329	---	-.751	---	-.840	---	-.678	---
	20	-.150	---	-.179	---	-.280	---	-.287	---	-.352	---	-.493	---	-.588	---
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.098	---	-.102	---	-.102	---	-.130	---	-.108	---	-.404	---	-.438	---
	50	-.087	---	-.097	---	-.097	---	-.109	---	-.118	---	-.389	---	-.373	---
	60	-.038	---	-.088	---	-.015	---	-.030	---	-.055	---	-.230	---	-.308	---
	70	-.012	---	-.018	---	.008	---	-.001	---	-.088	---	-.282	---	-.299	---
	80	.039	---	.047	---	.068	---	.068	---	.018	---	-.147	---	-.267	---
	90	---	---	---	---	---	---	---	---	---	---	---	---	---	---

(l) M,0.94.

Percent semispan	Percent chord	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface	7, Upper surface	7, Lower surface
15	0	0.590	---	0.595	---	0.640	---	0.620	---	0.505	---	0.375	---	0.270	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.135	-0.126	.099	-0.100	.030	0.018	-.060	0.091	-.187	0.199	-.250	0.281	-.345	0.335
	20	.068	-.151	.083	-.140	-.031	-.046	-.100	.025	-.200	.130	-.278	.198	-.338	.230
	30	.012	-.170	-.021	-.160	-.075	-.044	-.140	-.008	-.230	.071	-.299	.142	-.379	.170
	40	-.020	-.205	-.050	-.190	-.095	-.100	-.150	-.045	-.230	-.030	-.280	.100	-.341	.180
	50	-.070	---	-.095	---	-.131	---	-.185	---	-.254	---	-.318	---	-.343	---
	60	-.089	-.267	-.128	-.250	-.170	-.170	-.200	-.111	-.300	-.042	-.350	.018	-.400	.036
	70	---	-.312	---	-.311	---	-.230	---	-.150	---	-.119	---	-.029	---	-.046
	80	-.139	-.308	-.134	-.310	-.221	-.266	-.265	-.170	-.340	-.100	-.398	-.051	-.440	-.046
	90	-.112	---	-.160	---	-.230	---	-.265	---	-.340	---	-.399	---	-.442	---
35	0	.345	---	.398	---	.430	---	.332	---	.144	---	.019	---	-.063	---
	5	.251	---	.100	---	-.080	---	-.203	---	-.489	---	-.818	---	-1.040	---
	10	.084	-.265	.040	-.255	-.049	-.225	-.170	-.013	-.312	.124	-.464	.084	-.603	.245
	20	.004	-.278	-.048	-.262	-.158	-.161	-.215	-.073	-.384	.034	-.415	.108	-.498	.137
	30	-.003	-.282	-.106	-.266	-.190	-.197	-.260	-.128	-.352	-.032	-.430	.037	-.148	.064
	40	-.100	---	-.250	---	-.218	---	-.297	---	-.373	---	-.445	---	-.466	---
	50	-.132	---	-.174	---	-.248	---	-.310	---	-.388	---	-.460	---	-.497	---
	60	-.077	-.320	-.120	-.327	-.188	-.290	-.239	-.178	-.298	-.089	-.361	-.050	-.325	-.038
	70	-.168	-.361	-.198	-.364	-.255	-.275	-.303	-.152	-.132	-.098	-.370	-.080	-.399	-.078
	80	---	-.208	---	-.194	---	-.100	---	-.055	---	-.067	---	-.030	---	-.065
	90	.009	---	-.005	---	.030	---	.003	---	-.053	---	-.139	---	-.168	---
55	0	.213	---	.278	---	.468	---	.450	---	.320	---	.179	---	.078	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.035	-.329	-.002	-.360	-.121	-.195	-.271	-.000	-.434	.038	-.900	.144	-1.098	.130
	20	-.050	-.362	-.102	-.370	-.142	-.217	-.302	-.138	-.440	-.080	-.840	.079	-.855	.072
	30	-.096	-.338	-.158	-.350	-.233	-.285	-.342	-.250	-.467	-.460	-.719	.008	-.995	.018
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.126	---	-.151	---	-.235	---	-.382	---	-.516	---	-.392	---	-.638	---
	60	-.097	-.140	-.134	-.162	-.134	.005	-.256	.010	-.403	.086	-.598	.040	-.409	.082
	70	-.070	-.140	-.090	-.118	-.035	-.058	-.003	-.072	-.194	-.088	-.378	-.071	-.500	-.098
	80	-.018	-.093	-.042	-.035	-.080	-.000	-.040	-.050	-.060	-.089	-.139	-.046	-.315	-.070
	90	.030	.050	.020	.040	.010	.050	.080	.089	.010	.030	-.040	-.009	-.101	-.040
75	0	.307	---	.383	---	.473	---	.408	---	.800	---	.098	---	-.077	---
	5	.078	---	.064	---	-.129	---	-.369	---	-.773	---	-1.096	---	-2.116	---
	10	.038	-.325	.010	-.462	-.145	-.229	-.301	-.437	-.605	.092	-.943	.138	-2.038	.198
	20	-.038	-.410	-.060	-.398	-.180	-.210	-.130	-.071	-.468	.018	-.850	.032	-.960	.088
	30	-.078	-.398	-.108	-.440	-.168	-.239	-.338	-.139	-.530	-.046	-.780	.065	-.980	.019
	40	-.080	---	-.099	---	-.208	---	-.295	---	-.508	---	-.383	---	-.738	---
	50	-.111	---	-.129	---	-.172	---	-.168	---	-.384	---	-.375	---	-.597	---
	60	-.080	-.107	-.100	-.132	-.124	-.148	-.140	-.113	-.113	-.080	-.187	-.070	-.314	-.080
	70	-.030	-.059	-.030	-.075	-.008	-.090	-.072	-.058	-.083	0	-.068	0	-.168	-.073
	80	.032	-.012	.085	-.016	0	0	0	0	-.088	.038	-.035	.005	-.129	-.047
	90	.055	---	.054	---	.069	---	.074	---	.080	---	.035	---	-.071	---
95	0	.280	---	.283	---	.491	---	.429	---	.288	---	.053	---	-.032	---
	5	.280	---	.077	---	-.120	---	-.432	---	-.465	---	-1.019	---	-.858	---
	10	0	-.608	-.082	-.363	-.164	-.216	-.347	-.053	-.518	---	-.895	---	-.778	.137
	20	-.178	-.440	-.203	-.375	-.067	-.280	-.290	-.212	-.672	---	-.894	---	-.718	-.088
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.107	-.070	-.091	-.189	-.117	-.070	-.108	-.118	-.008	---	-.393	---	-.308	-.249
	50	-.063	---	-.062	---	-.100	---	-.109	---	-.067	---	-.300	---	-.149	---
	60	-.012	-.030	-.030	-.028	.012	-.015	-.082	-.014	-.088	---	-.190	---	-.341	-.082
	70	.005	-.002	-.019	.008	.007	.008	.014	.008	-.013	---	-.168	---	-.328	-.075
	80	.075	.052	.024	.065	.064	.080	.069	.078	.030	---	-.098	---	-.288	-.088
	90	.040	---	.068	---	.130	---	.109	---	---	---	---	---	.287	---

NACA

TABLE VI.– PRESSURE COEFFICIENTS ON A WING HAVING A SWEEPBACK ANGLE OF 35° AND AN ASPECT RATIO OF 6 IN COMBINATION WITH A FUSELAGE.

(a) M,0.40.

Percent semi-span	Percent chord	Angle of attack, degrees											
		-4		-2		0		2		4		6	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
12.5	0	-0.598	---	-0.086	---	0.300	---	0.672	---	0.568	---	0.125	---
	5	.150	---	.113	---	-.035	---	-.189	---	-.368	---	-.608	---
	10	.175	-0.388	.071	-0.209	-.054	-0.077	-.157	0.042	-.387	0.185	-.476	0.277
	20	.084	-.289	.005	-.199	-.087	-.115	-.157	-.003	-.348	.068	-.387	.170
	30	.038	-.281	-.028	-.161	-.119	-.090	-.183	.005	-.250	.068	-.347	.158
	40	-.025	-.286	-.064	-.173	-.125	-.134	-.188	-.061	-.245	.003	-.115	.071
	50	-.054	---	-.080	---	-.128	---	-.173	---	-.283	---	-.208	---
	60	-.056	-.214	-.071	-.209	-.125	-.209	-.157	-.087	-.197	-.015	-.278	.038
	70	-.032	-.198	-.064	-.174	-.109	-.118	-.125	-.087	-.174	-.035	-.206	.003
	80	-.039	-.133	-.048	-.113	-.077	-.093	-.090	-.061	-.119	-.089	-.141	.008
	90	-.005	-.068	-.006	-.058	-.069	-.061	-.035	-.088	-.062	.005	-.064	.004
35	0	-.205	---	.182	---	.614	---	.358	---	-.432	---	-.984	---
	5	.241	---	.109	---	-.082	---	-.489	---	-.487	---	-.949	---
	10	.159	-.405	.064	-.257	-.067	-.119	-.189	.055	-.319	.148	-.678	.247
	20	.065	-.308	-.036	-.229	-.119	-.125	-.203	-.089	-.316	.068	-.473	.164
	30	.083	-.289	-.048	-.219	-.127	-.141	-.199	-.061	-.287	.004	-.378	.105
	40	-.018	-.243	-.080	-.209	-.141	-.152	-.199	-.077	-.235	-.083	-.315	.068
	50	-.042	-.247	-.080	-.193	-.111	-.152	-.189	-.093	-.239	-.049	-.287	.089
	60	-.036	-.198	-.064	-.161	-.119	-.125	-.131	-.077	-.174	-.050	-.215	.009
	70	-.039	-.127	-.048	-.096	-.087	-.067	-.093	-.045	-.139	-.083	-.141	.039
	80	.013	-.068	0	-.048	-.088	-.089	-.088	.003	-.080	.066	-.087	.039
	90	.036	-.003	.052	0	.019	0	.003	.019	.003	.035	.003	.045
55	0	-.784	---	.183	---	.388	---	.948	---	-.456	---	-.338	---
	5	.439	---	.241	---	.139	---	.039	---	.082	---	-.806	---
	10	.159	-.425	.048	-.257	-.093	-.109	-.281	.339	-.400	.165	-.702	.367
	20	.065	-.386	0	-.288	-.119	-.119	-.215	-.043	-.118	.068	-.597	.167
	30	.089	-.379	-.048	-.209	-.125	-.125	-.205	-.045	-.364	.028	-.454	.144
	40	-.019	---	-.064	---	-.125	---	-.189	---	-.348	---	-.118	---
	50	-.036	---	-.071	---	-.125	---	-.043	---	-.216	---	-.254	---
	60	-.049	-.166	-.064	-.129	-.089	-.089	-.125	-.064	-.165	-.089	-.130	.010
	70	-.026	-.101	-.039	-.080	-.087	-.062	-.077	-.089	-.103	.003	-.125	.039
	80	.089	---	0	---	.003	---	-.089	---	-.045	---	-.064	---
	90	.045	.089	.052	.032	.035	.035	.035	.001	.049	.097	.005	.051
75	0	-.348	---	-.302	---	.484	---	.644	---	.484	---	.497	---
	5	.189	---	.139	---	-.047	---	-.382	---	-.382	---	-.765	---
	10	.138	-.458	.084	-.257	-.087	-.083	-.281	.061	-.400	.190	-.646	.244
	20	.098	-.308	0	-.274	-.093	-.109	-.306	.008	-.318	.077	-.538	.178
	30	.089	-.263	-.032	-.199	-.109	-.135	-.180	-.084	-.423	.010	-.434	.130
	40	-.005	-.251	-.048	-.177	-.119	-.130	-.183	-.098	-.328	.005	-.394	.048
	50	-.019	---	-.048	---	-.099	---	-.129	---	-.124	---	-.273	---
	60	-.048	-.138	-.048	-.129	-.093	-.089	-.108	-.064	-.142	-.029	-.241	.088
	70	-.030	-.097	-.032	-.080	-.062	-.062	-.061	-.009	-.077	-.009	-.177	.345
	80	.013	-.036	0	-.086	.005	-.089	-.082	.003	-.089	.010	-.094	.249
	90	.110	.089	.096	.052	.089	.087	.099	.061	.100	.068	.100	.054
95	0	-.389	---	.129	---	.380	---	.439	---	.406	---	.212	---
	5	.284	---	.096	---	-.077	---	-.360	---	-.481	---	-.704	---
	10	.087	-.213	.016	-.126	-.093	-.048	-.305	.039	-.331	.103	-.644	.145
	20	.089	-.232	-.039	-.177	-.089	-.123	-.197	-.098	-.221	0	-.381	.084
	30	---	-.190	---	-.155	---	-.123	---	-.077	---	-.042	---	-.316
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.068	---	-.085	---	-.093	---	-.108	---	-.126	---	-.198	---
	60	-.058	-.105	-.064	-.080	-.061	-.087	-.077	-.049	-.084	-.088	-.114	-.053
	70	-.049	-.082	-.032	-.038	-.089	-.052	-.085	-.029	-.080	-.046	-.041	-.094
	80	-.045	-.003	.046	.006	.009	.006	-.089	.006	.005	.046	-.009	.004
	90	.035	.085	.035	.046	.048	.042	.042	.042	.030	.039	-.084	.084

Percent semi-span	Percent chord	Angle of attack, degrees											
		8		10		12		14		16		18	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
12.5	0	-0.389	---	-0.984	---	-1.349	---	-1.774	---	-0.804	---	-0.435	---
	5	-.340	---	-1.089	---	1.116	---	-2.800	---	-1.497	---	-1.879	---
	10	-.388	0.366	-.884	0.467	-.890	0.547	-1.505	0.608	-1.583	0.634	-1.058	0.668
	20	-.348	.278	-.492	.301	-.713	.354	-.984	.430	-1.173	-.484	-1.011	.505
	30	-.308	.188	-.386	.238	-.509	.316	-.785	.384	-1.203	.388	-1.465	.427
	40	-.436	.097	-.427	.149	-.318	.341	-.613	.349	-.967	.384	-1.012	.309
	50	-.309	---	-.437	---	-.443	---	-.548	---	-.778	---	-.910	---
	60	-.316	.030	-.362	.073	-.371	.134	-.459	.151	-.431	.178	-.857	.173
	70	-.289	.005	-.311	.043	-.306	.084	-.350	.102	-.380	.111	-.736	.134
	80	-.198	-.005	-.208	.054	-.215	.086	-.290	.089	-.418	.079	-.435	.068
	90	-.131	.005	-.128	.036	-.117	.058	-.193	.036	-.288	.039	-.584	-.005
35	0	-1.534	---	-1.685	---	-1.414	---	-1.144	---	-1.023	---	-.919	---
	5	-1.389	---	-1.447	---	-1.179	---	-1.046	---	-.961	---	-.878	---
	10	-1.211	.332	-1.305	.404	-1.049	.436	-1.089	.308	-.843	.389	-.788	.517
	20	-.940	.238	-1.270	.348	-1.094	.388	-.987	.357	-.908	.382	-.844	.431
	30	-.308	.131	-.987	.308	-1.095	.248	-.974	.239	-.882	.368	-.821	.303
	40	-.336	.087	-.778	.132	-.890	.136	-.974	.177	-.880	.388	-.821	.312
	50	-.382	.087	-.583	.085	-.909	.117	-.964	.108	-.896	.111	-.834	.124
	60	-.348	0	-.361	.038	-.779	.081	-.880	.068	-.849	.096	-.834	.098
	70	-.188	0	-.388	.036	-.638	.035	-.808	.056	-.810	.013	-.849	.003
	80	-.184	.013	-.169	.036	-.463	.035	-.488	.005	-.765	-.033	-.754	-.078
	90	-.037	.013	-.086	.086	-.313	.086	-.370	-.097	-.674	-.157	-.694	-.208
55	0	-.841	---	-.198	---	-.497	---	-.772	---	-.772	---	-.837	---
	5	-.138	---	-.189	---	-.389	---	-.387	---	-.183	---	-.149	---
	10	-.946	.332	-.881	.384	-.664	.427	-.688	.456	-.549	.408	-.500	.582
	20	-.809	.238	-.858	.342	-.698	.280	-.613	.298	-.549	.333	-.590	.368
	30	-.789	.131	-.889	.178	-.689	.199	-.587	.207	-.548	.235	-.580	.344
	40	-.774	---	-.789	---	-.604	---	-.587	---	-.542	---	-.590	---
	50	-.440	---	-.489	---	-.583	---	-.587	---	-.546	---	-.588	---
	60	-.336	.005	-.576	.020	-.590	.046	-.561	.009	-.546	.013	-.588	.016
	70	-.238	.007	-.493	.007	-.534	-.087	-.562	-.030	-.556	-.008	-.548	-.083
	80	-.184	---	-.384	---	-.502	---	-.548	---	-.549	---	-.588	---
	90	-.087	.003	-.311	-.048	-.461	-.127	-.519	-.141	-.536	-.190	-.588	-.211
75	0	.138	---	.289	---	.218	---	.098	---	-.098	---	-.383	---
	5	-.096	---	-.573	---	-.397	---	-.374	---	-.412	---	-.440	---
	10	-.046	.139	-.543	.341	-.388	.384	-.374	.411	-.412	.498	-.440	.496
	20	-.175	.198	-.588	.202	-.371	.248	-.374	.249	-.412	.301	-.430	.336
	30	-.034	.087	-.700	.129	-.371	.150	-.374	.167	-.412	.203	-.430	.238
	40	-.300	.078	-.487	.053	-.348	.089	-.374	.073	-.412	.109	-.430	.140
	50	-.349	---	-.401	---	-.139	---	-.377	---	-.386	---	-.434	---
	60	-.305	-.008	-.411	-.030	-.139	-.043	-.374	-.033	-.412	-.086	-.440	-.046
	70	-.258	-.008	-.361	-.044	-.139	-.098	-.382	-.019	-.419	-.065	-.440	-.077
	80	-.164	-.003	-.331	-.068	-.136	-.098	-.361	-.108	-.419	-.088	-.430	-.094
	90	.038	-.005	-.050	-.070	-.098	-.127	-.480	-.161	-.098	-.157	-.134	-.160
95	0	-.483	---	-.438	---	.190	---	.049	---	-.089	---	-.312	---
	5	-.829	---	-.648	---	-.389	---	-.385	---	-.327	---	-.348	---
	10	-.742	.194	-.393	.203	-.345	.238	-.325	.289	-.327	.142	-.342	.294
	20	-.481	.068	-.341	.081	-.339	.087	-.325	.280	-.327	.135	-.342	.165
	30	---	.003	---	.006	---	.030	---	.086	---	.048	---	.068
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.895	---	-.388	---	-.274	---	-.348	---	-.350	---	-.335	---
	60	-.805	-.039	-.345	-.071	-.247	-.090	-.348	-.094	-.350	-.094	-.359	-.094
	70	-.138	-.038	-.189	-.061	-.248	-.090	-.398	-.184	-.350	-.103	-.350	-.106
	80	-.111	-.009	-.198	-.035	-.238	-.087	-.290	-.105	-.337	-.119	-.349	-.121
	90	-.061	.083	-.145	-.058	-.289	-.180	-.287	-.194	-.329	-.158	-.348	-.168

NACA

TABLE VI.– CONTINUED

(b) M,0.60.

Percent semi-span	Percent chord	−4 Upper surface	−4 Lower surface	−2 Upper surface	−2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
		Angle of attack, degrees											
12.5	0	−0.752	---	0.002	---	0.528	---	0.703	---	0.646	---	0.428	---
	5	.064	---	.144	---	−.003	---	−.175	---	−.428	---	−.639	---
	10	.186	−0.350	.090	−0.230	−.052	−0.090	−.157	0.040	−.335	0.333	−.510	0.285
	20	.094	−.311	.025	−.225	−.073	−.125	−.168	−.032	−.390	.080	−.464	.168
	30	.090	−.257	−.038	−.181	−.112	−.100	−.198	−.088	−.297	.080	−.389	.140
	40	−.005	−.278	−.068	−.200	−.132	−.143	−.198	−.081	−.286	.004	−.368	.057
	50	−.039	---	−.087	---	−.142	---	−.200	---	−.289	---	−.338	---
	60	−.048	−.240	−.090	−.200	−.152	−.143	−.180	−.100	−.240	−.036	−.281	.005
	70	−.057	−.210	−.090	−.175	−.126	−.130	−.160	−.090	−.206	−.045	−.248	−.015
	80	−.030	−.154	−.129	−.129	−.080	−.092	−.109	−.065	−.140	−.030	−.180	−.009
	90	−.002	−.080	−.094	−.060	−.038	−.038	−.085	−.019	−.070	.018	−.160	.018
35	0	.043	---	.518	---	.685	---	.538	---	−.398	---	−.538	---
	5	.260	---	.124	---	−.049	---	−.374	---	−.600	---	−.964	---
	10	.153	−.464	.070	−.324	−.042	−.136	−.188	.008	−.398	.168	−.718	.240
	20	.097	−.370	−.024	−.266	−.112	−.150	−.288	−.032	−.370	.088	−.548	.140
	30	.012	−.322	−.088	−.248	−.135	−.157	−.225	−.063	−.330	.082	−.430	.085
	40	−.039	−.298	−.093	−.240	−.150	−.160	−.220	−.105	−.308	−.003	−.378	.068
	50	−.065	−.275	−.108	−.228	−.143	−.161	−.210	−.109	−.272	−.074	−.314	−.008
	60	−.090	−.213	−.080	−.180	−.118	−.128	−.157	−.100	−.205	−.048	−.238	−.017
	70	−.089	−.140	−.044	−.180	−.068	−.088	−.110	−.080	−.140	−.080	−.178	.008
	80	.003	−.067	−.010	−.045	−.019	−.018	−.092	−.092	−.067	.005	−.098	.018
	90	.030	0	.014	.010	.030	.089	.010	.024	0	.043	−.084	.040
55	0	−.330	---	.289	---	.604	---	.633	---	.178	---	−.445	---
	5	.209	---	.160	---	.129	---	.062	---	−.135	---	−.139	---
	10	.140	−.480	.046	−.380	−.082	−.152	−.243	.080	−.480	.188	−.732	.258
	20	.040	−.378	−.080	−.268	−.128	−.152	−.285	−.040	−.375	.080	−.588	.147
	30	−.030	−.385	−.062	−.250	−.144	−.165	−.280	−.072	−.325	.025	−.470	.080
	40	−.055	---	−.088	---	−.150	---	−.216	---	−.295	---	−.370	---
	50	−.070	---	−.100	---	−.150	---	−.190	---	−.258	---	−.295	---
	60	−.053	−.203	−.070	−.174	−.115	−.134	−.135	−.085	−.185	−.035	−.288	−.016
	70	−.040	−.135	−.095	−.168	−.080	−.080	−.098	−.040	−.125	−.009	−.168	−.008
	80	−.006	---	−.008	---	−.088	---	−.082	---	−.074	---	−.089	---
	90	.080	0	.018	.011	.080	.080	.029	.048	.068	.050	−.030	.085
75	0	−.765	---	−.281	---	.148	---	.602	---	.353	---	.497	---
	5	.288	---	.140	---	−.039	---	−.292	---	−.083	---	−.813	---
	10	.173	−.473	.060	−.382	−.072	−.109	−.238	.040	−.428	.189	−.738	.288
	20	.068	−.348	−.085	−.267	−.101	−.128	−.218	−.030	−.360	.088	−.588	.138
	30	.018	−.292	−.061	−.241	−.121	−.131	−.205	−.045	−.300	.017	−.455	.085
	40	−.030	−.258	−.090	−.220	−.131	−.183	−.159	−.071	−.267	−.005	−.360	.088
	50	−.035	---	−.098	---	−.110	---	−.158	---	−.210	---	−.260	---
	60	−.038	−.165	−.080	−.160	−.098	−.097	−.135	−.175	−.169	−.038	−.210	−.030
	70	−.012	−.105	−.059	−.109	−.042	−.073	−.075	−.057	−.108	−.080	−.147	−.080
	80	.018	−.017	0	−.045	−.002	−.005	−.089	.008	−.035	.017	−.080	.029
	90	.122	.030	.093	.030	.112	.059	.068	.060	.095	.060	.081	.030
95	0	−.273	---	.176	---	.577	---	.660	---	.499	---	.359	---
	5	.219	---	.108	---	−.077	---	−.279	---	−.608	---	−.748	---
	10	.094	−.193	.001	−.141	−.105	−.041	−.231	.032	−.398	.228	−.608	.171
	20	−.008	−.222	−.059	−.198	−.118	−.189	−.150	−.077	−.298	−.002	−.479	.038
	30	---	−.187	---	−.164	---	−.130	---	−.095	---	−.046	---	−.004
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	−.082	---	−.101	---	−.112	---	−.130	---	−.148	---	−.175	---
	60	−.065	−.088	−.069	−.073	−.077	−.065	−.079	−.068	−.108	−.060	−.129	−.054
	70	−.032	−.039	−.089	−.035	−.086	−.019	−.030	−.082	−.048	−.016	−.088	−.088
	80	.018	.082	.083	.031	.015	.088	.080	.030	.001	.089	−.049	.089
	90	.050	.079	.045	.048	.066	.068	.059	.067	.037	.065	−.008	.068

Percent semi-span	Percent chord	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface	14 Upper surface	14 Lower surface	16 Upper surface	16 Lower surface	18 Upper surface	18 Lower surface
		Angle of attack, degrees											
12.5	0	0.208	---	0.086	---	0.157	---	0.280	---	0.249	---	−0.225	---
	5	−.887	---	−1.389	---	−2.878	---	−1.978	---	−1.154	---	−.880	---
	10	−.658	0.390	−.982	0.491	−1.140	0.540	−1.790	0.604	−1.212	0.660	−.938	0.730
	20	−.501	.257	−.600	.339	−.774	.389	−1.208	.466	−1.120	.398	−.910	.542
	30	−.470	.209	−.561	.273	−.630	.316	−.869	.378	−1.106	.483	−.947	.460
	40	−.440	.189	−.510	.187	−.573	.219	−.686	.288	−.974	.304	−.980	.339
	50	−.408	---	−.459	---	−.530	---	−.612	---	−.869	---	−.890	---
	60	−.341	.050	−.394	.098	−.472	.122	−.547	.165	−.736	.165	−.839	.197
	70	−.284	.086	−.317	.061	−.400	.078	−.478	.104	−.693	.104	−.782	.128
	80	−.208	.027	−.231	.055	−.300	.067	−.379	.055	−.477	.077	−.780	.070
	90	−.111	.040	−.189	.050	−.183	.038	−.252	.092	−.443	.021	−.840	−.088
35	0	−.973	---	−1.380	---	−1.238	---	−1.337	---	−1.365	---	−.998	---
	5	−1.170	---	−1.494	---	−1.067	---	−.974	---	−.860	---	−.812	---
	10	−.962	.349	−1.247	.421	−.938	.459	−.853	.492	−.768	.287	−.708	.560
	20	−.846	.215	−1.232	.265	−1.017	.305	−.940	.340	−.835	.378	−.799	.410
	30	−.596	.142	−.872	.188	−.942	.220	−.911	.247	−.832	.270	−.772	.310
	40	−.419	.080	−.598	.190	−.899	.142	−.886	.155	−.824	.178	−.771	.211
	50	−.389	.038	−.460	.062	−.855	.080	−.868	.075	−.880	.098	−.759	.112
	60	−.258	.018	−.360	.038	−.790	.043	−.835	.087	−.803	.032	−.775	.032
	70	−.176	.008	−.308	.005	−.715	.032	−.798	−.008	−.787	−.087	−.758	.019
	80	−.110	.037	−.207	.089	−.598	.012	−.782	−.057	−.740	−.078	−.733	.008
	90	−.040	.040	−.135	.041	−.477	−.060	−.640	−.156	−.673	−.198	−.694	.217
55	0	−.302	---	−.440	---	−.470	---	−.580	---	−.653	---	−.783	---
	5	−.197	---	−.800	---	−.185	---	−.808	---	−.800	---	−.810	---
	10	−.810	.314	−.780	.400	−.680	.400	−.570	.440	−.550	.478	−.574	.508
	20	−.708	.180	−.759	.270	−.680	.270	−.570	.381	−.549	.330	−.570	.380
	30	−.600	.114	−.720	.195	−.540	.170	−.588	.295	−.543	.226	−.570	.270
	40	−.488	---	−.464	---	−.548	---	−.560	---	−.540	---	−.570	---
	50	−.384	---	−.594	---	−.540	---	−.590	---	−.540	---	−.570	---
	60	−.285	−.007	−.503	.040	−.528	−.080	−.540	−.030	−.530	−.041	−.560	.009
	70	−.230	−.005	−.446	.081	−.518	−.090	−.530	−.084	−.527	−.058	−.580	−.041
	80	−.160	---	−.364	---	−.490	---	−.540	---	−.540	---	−.570	---
	90	−.100	.019	−.290	−.031	−.460	−.165	−.518	−.197	−.510	−.220	−.548	−.209
75	0	.255	---	.340	---	.333	---	−.408	---	−.166	---	.189	---
	5	−.931	---	−.582	---	−.398	---	−.442	---	−.459	---	−.396	---
	10	−.900	.311	−.588	.345	−.386	.368	−.442	.492	−.458	.405	−.398	.410
	20	−.820	.171	−.502	.305	−.381	.218	−.442	.302	−.451	.358	−.396	.258
	30	−.704	.090	−.470	.124	−.377	.117	−.442	.185	−.451	.222	−.396	.155
	40	−.569	.041	−.485	.068	−.371	.045	−.440	.123	−.450	.129	−.400	.098
	50	−.410	---	−.370	---	−.339	---	−.413	---	−.430	---	−.368	---
	60	−.329	−.036	−.355	−.030	−.355	−.068	−.438	−.088	−.460	−.049	−.355	−.049
	70	−.231	−.018	−.312	−.049	−.340	−.095	−.438	−.103	−.468	−.101	−.391	−.105
	80	−.150	.008	−.277	−.062	−.337	−.128	−.438	−.131	−.435	−.130	−.393	−.138
	90	.051	.080	−.089	−.088	−.042	−.160	−.082	−.198	−.075	−.198	−.060	−.179
95	0	.178	---	.030	---	−.138	---	.097	---	−.088	---	−.332	---
	5	−.799	---	−.751	---	−.799	---	−.398	---	−.360	---	−.330	---
	10	−.749	.201	−.728	.218	−.829	.235	−.380	.250	−.338	.275	−.370	.308
	20	−.639	.098	−.628	.065	−.855	.079	−.380	.098	−.365	.128	−.360	.158
	30	---	−.003	---	−.008	---	−.003	---	.009	---	.088	---	.054
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	−.275	---	−.278	---	−.300	---	−.338	---	−.372	---	−.399	---
	60	−.207	−.098	−.209	−.098	−.298	−.099	−.333	−.180	−.372	−.138	−.399	−.180
	70	−.145	−.032	−.160	−.068	−.217	−.085	−.323	−.184	−.373	−.135	−.399	−.180
	80	−.095	.021	−.180	−.039	−.199	−.069	−.313	−.190	−.374	−.147	−.400	−.150
	90	−.050	.012	−.098	−.030	−.167	−.063	−.298	−.158	−.349	−.198	−.378	−.195

NACA

TABLE VI.— CONTINUED

(c) M,0.70.

Percent span	Percent chord	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
12.5	0	-0.474	---	0.085	---	0.300	---	0.713	---	0.707	---
	5	.260	---	.165	---	.015	---	-.199	---	-.116	---
	10	.148	-0.153	.110	-0.342	-.212	-0.129	-.158	0.039	-.280	-0.139
	20	.081	-.266	.088	-.238	-.208	-.159	-.128	-.264	-.268	-.268
	30	.080	-.288	-.030	-.300	-.118	-.186	-.205	-.038	-.282	-.265
	40	-.019	-.309	-.065	-.343	-.115	-.182	-.220	-.160	-.280	-.238
	50	-.054	---	-.090	---	-.137	---	-.227	---	-.277	---
	60	-.064	-.277	-.098	-.282	-.150	-.178	-.203	-.119	-.250	-.071
	70	-.065	-.240	-.092	-.199	-.137	-.140	-.191	-.125	-.203	-.079
	80	-.043	-.180	-.068	-.149	-.098	-.116	-.131	-.082	-.153	.037
	90	-.022	-.080	-.034	-.078	-.022	-.070	-.024	-.028	-.022	.139
35	0	.347	---	.333	---	.280	---	.238	---	.157	---
	5	.242	---	.138	---	-.041	---	-.080	---	-.088	---
	10	.126	-.402	.073	-.363	-.062	-.180	-.194	-.088	-.150	.110
	20	.045	-.398	-.023	-.314	-.121	-.192	-.252	-.280	-.158	.018
	30	-.018	-.350	-.051	-.282	-.140	-.203	-.255	-.112	-.158	-.033
	40	-.034	-.324	-.058	-.252	-.172	-.226	-.254	-.136	-.155	-.042
	50	-.060	-.293	-.128	-.221	-.178	-.232	-.243	-.142	-.185	-.038
	60	-.059	-.238	-.150	-.213	-.168	-.188	-.194	-.132	-.183	-.088
	70	-.047	-.139	-.066	-.145	-.094	-.108	-.115	-.080	-.158	-.056
	80	-.018	-.062	-.032	-.077	-.053	-.058	-.077	-.032	-.078	-.018
	90	.018	-.008	.012	0	.033	.008	0	.018	0	.006
55	0	-.092	---	.250	---	.200	---	.092	---	.126	---
	5	.146	---	.186	---	.120	---	.100	---	.060	---
	10	.150	-.300	.052	-.178	-.069	-.206	-.150	-.011	-.188	.101
	20	-.006	-.308	-.081	-.120	-.130	-.200	-.270	-.078	-.230	.080
	30	-.050	-.340	-.069	-.185	-.150	-.200	-.243	-.155	-.188	-.030
	40	-.040	---	-.100	---	-.156	---	-.232	---	-.206	---
	50	-.075	---	-.109	---	-.161	---	-.220	---	-.260	---
	60	-.039	-.200	-.038	-.190	-.193	-.162	-.161	-.138	-.126	-.075
	70	-.038	-.130	-.050	-.120	-.090	-.100	-.130	-.090	-.112	-.041
	80	0	---	-.038	---	-.030	---	-.030	---	-.063	---
	90	.030	.017	.000	.000	.000	.000	.000	.000	.000	.000
75	0	-.753	---	-.309	---	.397	---	.602	---	.466	---
	5	.174	---	.169	---	-.009	---	-.051	---	-.088	---
	10	.159	-.536	.069	-.354	-.028	-.211	-.347	.011	-.173	.128
	20	.058	-.373	-.014	-.285	-.105	-.238	-.238	-.065	-.136	.035
	30	0	-.315	-.058	-.198	-.130	-.209	-.218	-.101	-.094	-.084
	40	-.040	-.278	-.069	-.138	-.140	-.209	-.218	-.103	-.088	-.045
	50	-.050	---	-.088	---	-.138	---	-.177	---	-.086	---
	60	-.050	-.150	-.096	-.135	-.108	-.147	-.138	-.105	-.168	-.020
	70	-.038	-.128	-.050	-.093	-.068	-.097	-.117	-.083	-.107	-.018
	80	.005	-.050	-.018	-.032	.007	-.050	-.035	-.028	-.042	-.028
	90	.190	.030	.135	.030	.117	.018	.119	.050	.105	.041
95	0	-.305	---	.181	---	-.343	---	.628	---	.303	---
	5	.024	---	.130	---	-.058	---	-.087	---	-.313	---
	10	.073	-.451	.073	-.169	-.105	-.229	-.245	.014	-.178	-.085
	20	-.011	-.246	-.072	-.083	-.128	-.159	-.198	-.138	-.258	-.040
	30	---	-.215	---	-.008	---	-.160	---	-.135	---	-.090
	40	---	---	---	---	---	---	---	---	---	---
	50	-.103	---	-.128	---	-.188	---	-.144	---	-.370	---
	60	-.079	-.084	-.094	-.111	-.090	-.093	-.089	-.081	-.117	-.083
	70	-.039	-.040	-.046	-.040	-.050	-.050	-.055	-.040	-.066	-.020
	80	.021	.015	.000	.014	.028	.018	.038	.000	-.036	.021
	90	.039	.050	.040	.052	.058	.060	.058	.060	.039	.061

Percent span	Percent chord	Angle of attack, degrees: 6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface	14 Upper surface	14 Lower surface
12.5	0	0.938	---	0.327	---	0.104	---	0.237	---	0.478	---
	5	-.060	---	-1.030	---	-1.116	---	-1.038	---	-1.08	---
	10	.388	0.289	-.350	0.398	-1.088	0.470	-1.295	0.708	-1.375	0.489
	20	-.138	.130	-.202	.202	-.666	.328	-.885	.500	-1.130	.379
	30	-.111	.138	-.159	.218	-.593	.278	-.738	.392	-.919	.373
	40	-.168	.050	-.150	.138	-.538	.178	-.648	.228	-.742	.370
	50	-.162	---	-.118	---	-.495	---	-.590	---	-.478	---
	60	-.127	-.006	-.138	.050	-.430	.085	-.519	.119	-.438	.118
	70	-.076	-.088	-.102	.039	-.367	.063	-.438	.078	-.376	.089
	80	-.196	-.063	-.130	.018	-.278	.038	-.360	.047	-.275	.070
	90	-.189	.009	-.138	.030	-.150	.035	-.231	.030	-.348	.009
35	0	-.272	---	-.663	---	-.732	---	-1.069	---	-1.200	---
	5	-1.607	---	-1.154	---	-1.300	---	-.973	---	-.958	---
	10	-.74	.893	-.629	.198	-.945	.283	-.817	.348	-.835	.172
	20	-.383	.130	-.368	.197	-.378	.239	-.630	.343	-.388	.268
	30	-.161	.242	-.268	.132	-.388	.173	-.385	.202	-.388	.187
	40	-.198	.218	-.187	.080	-.308	.124	-.250	.140	-.287	.132
	50	-.342	-.028	-.308	.013	-.230	.044	-.288	.078	-.257	.037
	60	-.261	-.022	-.301	0	-.260	.018	-.282	.006	-.288	0
	70	-.185	-.013	-.216	0	-.235	.012	-.198	-.003	-.198	-.004
	80	-.124	.030	-.137	.008	-.155	.000	-.096	-.032	-.138	-.008
	90	-.085	.032	-.070	.012	-.107	-.002	-.079	-.113	-.149	-.184
55	0	.306	---	-.135	---	-.130	---	-.348	---	-.182	---
	5	-.141	---	-.129	---	-.190	---	-.150	---	-.195	---
	10	-.384	.230	-.242	.319	-.424	.348	-.350	.387	-.270	.347
	20	-.420	.180	-.341	.198	-.489	.282	-.388	.279	-.378	.288
	30	-.200	.202	-.241	.135	-.401	.130	-.378	.185	-.348	.197
	40	-.400	---	-.330	---	-.350	---	-.344	---	-.404	---
	50	-.388	---	-.148	---	-.347	---	-.347	---	-.322	---
	60	-.238	-.040	-.312	-.038	-.335	---	-.311	-.090	-.340	-.088
	70	-.139	-.018	-.254	-.021	-.400	-.044	-.311	-.038	-.400	-.079
	80	-.124	.000	-.169	---	-.136	---	-.189	---	-.243	---
	90	-.040	.030	-.180	.005	-.142	-.119	-.172	-.021	-.194	-.173
75	0	.046	---	-.354	---	-.148	---	-.378	---	-.252	---
	5	-.089	---	-.216	---	-.715	---	-.368	---	-.406	---
	10	-.388	.248	-.282	.340	-.490	.135	-.350	.347	-.406	.424
	20	-.388	.125	-.212	.169	-.248	.139	-.378	.235	-.409	.204
	30	-.424	.047	-.182	.080	-.401	.108	-.389	.139	-.408	.144
	40	-.368	.008	-.238	.085	-.408	.042	-.369	.041	-.408	.076
	50	-.361	---	-.180	---	-.420	---	-.338	---	-.377	---
	60	-.408	-.038	-.289	-.041	-.361	-.088	-.331	-.080	-.397	-.078
	70	-.140	-.021	-.320	-.037	-.288	-.064	-.397	-.065	-.487	-.111
	80	-.070	.008	-.321	-.009	-.243	-.047	-.350	-.124	-.399	-.139
	90	-.050	.038	-.246	-.009	-.238	-.008	-.328	-.142	-.390	-.350
95	0	.318	---	.275	---	.137	---	-.328	---	.387	---
	5	-.188	---	-.209	---	-.289	---	-.288	---	-.480	---
	10	-.491	.193	-.380	.392	-.288	.206	-.332	.233	-.426	.247
	20	-.138	0	-.289	.073	-.308	.036	-.386	.050	-.401	.047
	30	---	-.459	---	-.437	---	-.031	---	-.088	---	-.088
	40	---	---	---	---	---	---	---	---	---	---
	50	-.180	---	-.330	---	-.189	---	-.392	---	-.378	---
	60	-.130	-.080	-.335	-.079	-.288	-.104	-.364	-.135	-.348	-.168
	70	-.491	-.248	-.149	-.050	-.188	-.488	-.258	-.188	-.348	-.153
	80	-.074	0	-.101	-.020	-.143	-.016	-.281	-.088	-.348	-.157
	90	-.009	.018	-.061	-.009	-.101	-.035	-.129	-.088	-.188	-.157

NACA

TABLE VI.- CONTINUED

(d) M,0.75.

Percent Semi-span	Percent chord	Angle of attack, degrees: -4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
12.5	0	-0.800	---	0.016	---	0.600	---	0.728	---	0.730	---
	5	.809	---	.140	---	-.081	---	-.129	---	-.147	---
	10	.135	-0.182	.102	-0.220	-.047	-0.085	-.140	0.032	-.168	0.154
	20	.058	-.088	.015	-.094	-.054	-.129	-.170	-.031	-.188	.088
	30	-.012	-.049	-.045	-.100	-.140	-.180	-.205	-.031	-.211	.187
	40	-.044	-.066	-.073	-.138	-.161	-.178	-.225	-.065	-.219	-.067
	50	-.077	---	-.108	---	-.179	---	-.223	---	-.192	---
	60	-.084	-.183	-.104	-.198	-.178	-.184	-.210	-.128	-.169	-.071
	70	-.081	-.231	-.099	-.205	-.148	-.172	-.158	-.161	-.142	-.084
	80	-.055	-.178	-.067	-.150	-.114	-.133	-.135	-.083	-.102	-.088
	90	-.087	-.093	-.038	-.074	-.085	-.037	-.075	-.038	-.101	-.039
35	0	.150	---	.430	---	.692	---	.580	---	.414	---
	5	.158	---	.129	---	.129	---	.270	---	.378	---
	10	.105	-.130	.078	-.194	.064	-.140	.198	-.088	.198	.128
	20	-.015	-.156	-.028	-.198	-.166	-.168	-.218	-.088	-.173	.037
	30	-.040	-.115	-.069	-.143	-.182	-.186	-.220	-.108	-.197	-.032
	40	-.090	-.100	-.090	-.146	-.208	-.187	-.237	-.133	-.203	-.088
	50	-.114	-.078	-.130	-.188	-.198	-.193	-.247	-.190	-.197	-.099
	60	-.098	-.088	-.089	-.173	-.186	-.154	-.197	-.170	-.207	-.038
	70	-.060	-.150	-.047	-.104	-.168	-.100	-.159	-.082	-.157	-.032
	80	-.018	-.053	.006	-.037	-.084	-.045	-.053	-.028	-.072	-.008
	90	.018	0	.047	.034	0	.018	0	.006	.008	.036
55	0	.100	---	.100	---	.607	---	.660	---	.148	---
	5	.080	---	.184	---	.073	---	.083	---	-.038	---
	10	.078	-.400	.033	-.328	-.140	-.140	-.247	-.030	-.184	.131
	20	-.017	-.346	-.037	-.290	-.169	-.159	-.239	-.085	-.178	-.039
	30	-.050	-.304	-.074	-.268	-.182	-.178	-.253	-.114	-.196	-.016
	40	-.063	---	-.105	---	-.191	---	-.250	---	-.116	---
	50	-.100	---	-.115	---	-.189	---	-.230	---	-.178	---
	60	-.071	-.189	-.064	-.173	-.140	-.150	-.173	-.132	-.149	-.041
	70	-.035	-.120	-.070	-.110	-.100	-.099	-.125	-.048	-.132	-.030
	80	-.010	---	-.030	---	-.031	---	-.038	---	-.054	---
	90	.025	.011	.030	.038	.030	.030	.038	.030	.018	.045
75	0	-.070	---	-.011	---	.507	---	.098	---	.080	---
	5	.168	---	.132	---	.100	---	-.072	---	-.040	---
	10	.054	-.408	.045	-.255	-.181	-.109	-.241	.085	-.160	.108
	20	-.051	-.311	-.089	-.254	-.152	-.142	-.219	-.029	-.165	-.050
	30	-.038	-.270	-.061	-.243	-.186	-.154	-.187	-.088	-.118	-.019
	40	-.075	-.249	-.054	-.219	-.173	-.132	-.219	-.102	-.179	-.032
	50	-.050	---	-.090	---	-.148	---	-.172	---	-.218	---
	60	-.038	-.168	-.079	-.130	-.122	-.188	-.148	-.100	-.169	-.048
	70	-.048	-.092	-.040	-.088	-.078	-.088	-.088	-.059	-.089	-.048
	80	-.003	-.025	.008	-.041	-.022	-.025	-.025	-.065	-.022	.008
	90	.100	.050	.120	.056	.110	.044	.109	.056	.121	.009
95	0	.059	---	.118	---	.641	---	.080	---	.095	---
	5	.112	---	.087	---	.121	---	.079	---	.080	---
	10	.087	-.201	-.012	-.136	-.142	-.042	-.148	.019	-.103	.180
	20	-.070	-.201	-.076	-.190	-.142	-.152	-.189	-.111	-.154	-.200
	30	---	-.201	---	-.188	---	-.158	---	-.188	---	-.183
	40	---	---	---	---	---	---	---	---	---	---
	50	-.114	---	-.105	---	-.116	---	-.138	---	-.145	---
	60	-.081	-.065	-.070	-.081	-.084	-.078	-.089	-.088	-.100	-.081
	70	-.034	-.030	-.031	-.089	-.030	-.035	-.088	-.031	-.041	-.039
	80	.008	.021	.019	.085	.050	.089	.088	.080	.015	.015
	90	.043	.059	.060	.079	.050	.089	.060	.089	.042	.025

Percent Semi-span	Percent chord	Angle of attack, degrees: 6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface	12 Upper surface	12 Lower surface
12.5	0	0.949	---	0.503	---	0.362	---	0.959	---
	5	-.605	---	-1.678	---	-1.142	---	-1.607	---
	10	-.503	0.850	-.311	0.398	-1.074	0.592	-1.195	0.527
	20	-.439	.174	-.618	.841	-.830	.340	-.859	.403
	30	-.488	.143	-.504	.814	-.808	.385	-.718	.339
	40	-.398	-.060	-.500	.182	-.590	.188	-.844	.182
	50	-.374	---	-.149	---	-.938	---	-.802	---
	60	-.139	-.008	-.120	.041	-.500	.084	-.550	.117
	70	-.472	-.082	-.346	.015	-.409	.057	-.184	.073
	80	-.200	-.010	-.238	.010	-.339	.030	-.387	.084
	90	-.108	.019	-.152	.086	-.210	.086	-.251	.030
35	0	-.185	---	-.417	---	-.710	---	-.833	---
	5	-1.008	---	-.488	---	-1.019	---	-.908	---
	10	-.283	-.250	-.260	.390	-.774	.38	-.780	.498
	20	.790	.135	-.815	.200	-.960	.241	-.870	.353
	30	-.520	.073	-.722	.184	-.902	.198	-.882	.188
	40	-.358	.030	-.607	.066	-.845	.088	-.788	.188
	50	-.385	-.082	-.472	.018	-.797	.085	-.765	.112
	60	-.520	-.082	-.386	-.002	-.789	-.008	-.897	.078
	70	-.168	0	-.320	.009	-.438	-.018	-.840	.080
	80	-.078	.022	-.200	.040	-.338	-.040	-.778	.040
	90	-.008	.046	-.124	.019	-.415	-.098	-.188	-.008
55	0	.191	---	-.036	---	-.130	---	-.455	---
	5	-.158	---	-.346	---	-.881	---	-.218	---
	10	-.796	.130	-.873	.130	-.601	.30	-.600	.189
	20	-.800	.121	-.758	.190	-.642	.384	-.589	.188
	30	-.473	.054	-.697	.106	-.611	.130	-.580	.168
	40	-.361	---	-.548	---	-.570	---	-.570	---
	50	-.500	---	-.431	---	-.530	---	-.520	---
	60	-.480	-.030	-.319	-.018	-.470	-.047	-.534	-.038
	70	-.160	-.009	-.238	-.019	-.440	-.080	-.481	-.078
	80	-.079	---	-.174	---	-.460	---	-.381	---
	90	-.019	.043	-.130	-.081	-.389	-.138	-.470	-.184
75	0	.280	---	.481	---	.480	---	.488	---
	5	-.850	---	-.888	---	-.988	---	-.378	---
	10	-.729	.048	-.870	.318	-.518	.350	-.368	.368
	20	-.808	.287	-.805	.179	-.551	.408	-.380	.215
	30	-.458	.038	-.722	.087	-.505	.108	-.379	.188
	40	-.345	.010	-.631	.038	-.477	.038	-.377	.035
	50	-.240	---	-.490	---	-.398	---	-.348	---
	60	-.128	-.037	-.413	-.037	-.369	-.088	-.328	-.088
	70	-.124	-.081	-.388	-.030	-.318	-.089	-.301	-.138
	80	-.059	.009	-.288	-.009	-.278	-.089	-.321	-.131
	90	.108	.038	.047	.038	.048	-.100	-.280	-.138
95	0	.478	---	.298	---	.169	---	.846	---
	5	-.778	---	-.385	---	-.843	---	-.930	---
	10	-.608	.128	-.783	.197	-.862	.809	-.933	.885
	20	-.518	-.011	-.680	.088	-.791	.018	-.977	.888
	30	---	-.048	---	-.042	---	-.035	---	-.048
	40	---	---	---	---	---	---	---	---
	50	-.168	---	-.138	---	-.309	---	-.878	---
	60	-.120	-.078	-.889	-.087	-.290	-.188	-.845	-.145
	70	-.070	-.036	-.143	-.038	-.196	.100	-.883	-.139
	80	-.032	.009	-.090	-.018	-.149	-.089	-.884	-.088
	90	.008	.089	-.038	.008	-.119	-.034	-.176	-.088

NACA

TABLE VI.— CONTINUED

(e) M,0.80.

Percent Semi-span	Percent chord	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface
		Angle of attack, degrees													
12.5	0	-0.119	---	0.211	---	0.556	---	0.742	---	0.750	---	0.686	---	0.399	---
	5	.219	---	.160	---	.081	---	-.128	---	-.338	---	-.486	---	-.880	---
	10	.150	-0.290	.103	-0.270	0	-0.072	-.128	0.043	-.390	0.174	-.559	0.264	-.729	0.377
	20	.082	-.295	.020	-.240	-.085	-.118	-.158	-.088	-.384	.060	-.370	.171	-.619	.249
	30	.003	-.265	-.036	-.215	-.119	-.103	-.199	-.030	-.317	.040	-.461	.135	-.604	.202
	40	-.037	-.301	-.076	-.260	-.148	-.169	-.214	-.095	-.301	-.034	-.440	.058	-.568	.113
	50	-.076	---	-.107	---	-.160	---	-.230	---	-.329	---	-.427	---	-.553	---
	60	-.085	-.289	-.112	-.258	-.160	-.177	-.214	-.125	-.294	-.067	-.375	-.011	-.469	.030
	70	-.088	-.250	-.118	-.232	-.147	-.168	-.191	-.121	-.276	-.078	-.315	-.030	-.374	.006
	80	-.092	-.187	-.079	-.170	-.103	-.120	-.140	-.090	-.185	-.039	-.289	-.088	-.250	.018
	90	-.084	-.097	-.037	-.083	-.080	-.060	-.070	-.032	-.100	-.015	-.123	.007	-.138	.080
35	0	.402	---	.608	---	.783	---	.608	---	.288	---	-.015	---	-.248	---
	5	.202	---	.118	---	-.078	---	-.268	---	-.630	---	-1.348	---	-1.548	---
	10	.102	-.413	.048	-.382	-.085	-.160	-.198	-.023	-.370	.127	-.890	.230	-1.288	.330
	20	0	-.390	-.042	-.377	-.150	-.178	-.258	-.064	-.399	.035	-.518	.120	-1.089	.205
	30	-.035	-.340	-.048	-.340	-.175	-.218	-.268	-.118	-.373	-.047	-.480	.058	-.651	.133
	40	-.080	-.302	-.090	-.331	-.199	-.227	-.285	-.140	-.378	-.049	-.428	0	-.439	.070
	50	-.112	-.297	-.164	-.312	-.198	-.220	-.272	-.158	-.380	-.058	-.370	-.038	-.311	.088
	60	-.088	-.230	-.112	-.250	-.180	-.180	-.192	-.130	-.242	-.078	-.271	-.040	-.250	.008
	70	-.054	-.148	-.080	-.167	-.105	-.108	-.130	-.080	-.163	-.048	-.158	-.080	-.178	.014
	80	-.018	-.048	-.025	-.088	-.038	-.048	-.054	-.085	-.092	-.002	-.084	.088	-.085	.030
	90	.080	.010	.010	-.014	.015	.018	.015	.030	.002	.044	-.008	.052	-.007	.044
55	0	.154	---	.396	---	.650	---	.673	---	.497	---	.243	---	.840	---
	5	.028	---	.138	---	.100	---	.031	---	-.046	---	-.262	---	-.400	---
	10	.094	-.369	.048	-.369	-.108	-.179	-.259	-.026	-.417	.140	-1.128	.239	-1.400	.138
	20	-.003	-.361	-.030	-.381	-.143	-.185	-.297	-.076	-.375	.044	-.581	.122	-.995	.198
	30	-.041	-.380	-.080	-.399	-.169	-.195	-.250	-.138	-.346	.000	-.380	.059	-.791	.180
	40	-.079	---	-.101	---	-.179	---	-.248	---	-.309	---	-.358	---	-.439	---
	50	-.095	---	-.139	---	-.171	---	-.289	---	-.270	---	-.380	---	-.333	---
	60	-.071	-.193	-.085	-.193	-.130	-.149	-.161	-.114	-.190	-.054	-.309	-.030	-.240	.007
	70	-.046	-.138	-.060	-.117	-.083	-.084	-.084	-.060	-.120	-.025	-.140	.000	-.170	.021
	80	-.002	---	-.014	---	-.019	---	-.032	---	-.036	---	-.098	---	-.087	---
	90	.035	.030	.030	.030	.030	.030	.030	.035	.031	.059	.018	.050	-.017	.050
75	0	-.092	---	-.038	---	.500	---	.487	---	.682	---	.391	---	.478	---
	5	.159	---	.131	---	-.078	---	-.289	---	-.778	---	-1.371	---	-1.391	---
	10	.078	-.346	.042	-.370	-.091	-.160	-.279	-.009	-.452	.149	-1.197	.252	-1.278	.310
	20	.009	-.350	-.042	-.380	-.138	-.170	-.259	-.073	-.369	.092	-.519	.129	-.880	.280
	30	.045	-.302	-.089	-.291	-.149	-.180	-.249	-.118	-.368	-.015	-.328	.051	-.534	.100
	40	-.072	-.249	-.138	-.268	-.178	-.175	-.240	-.124	-.298	-.040	-.315	.007	-.480	.048
	50	-.088	---	-.118	---	-.149	---	-.199	---	-.223	---	-.245	---	-.327	---
	60	-.079	-.178	-.122	-.188	-.130	-.138	-.182	-.180	-.173	-.048	-.193	-.049	-.278	-.030
	70	-.046	-.098	-.080	-.116	-.079	-.077	-.108	-.073	-.118	-.048	-.117	-.026	-.208	-.089
	80	-.010	-.080	-.030	-.033	-.018	-.011	-.038	-.018	-.031	.009	-.048	.008	-.132	-.018
	90	.105	.041	.109	.031	.106	.095	.115	.049	.116	.056	.168	.045	.095	.006
95	0	.089	---	.307	---	.422	---	.693	---	.618	---	.498	---	.359	---
	5	.138	---	.105	---	-.098	---	-.282	---	-.673	---	-1.285	---	-.912	---
	10	.035	-.193	-.002	-.167	-.140	-.069	-.250	.029	-.439	.113	-.818	.169	-.818	.138
	20	-.070	-.182	-.081	-.210	-.153	-.148	-.194	-.120	-.349	-.072	-.461	-.024	-.671	.079
	30	---	-.198	---	-.209	---	-.168	---	-.135	---	-.088	---	-.062	---	-.046
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.112	---	-.115	---	-.129	---	-.130	---	-.153	---	-.177	---	-.299	---
	60	-.080	-.098	-.079	-.081	-.092	-.069	-.097	-.100	-.101	-.069	-.171	-.070	-.213	-.085
	70	-.046	-.030	-.040	-.041	-.025	-.089	-.030	-.032	-.042	-.088	-.080	-.089	-.140	-.098
	80	.018	.089	.019	.004	.035	.030	.038	.035	.080	.018	-.035	.019	-.100	-.116
	90	.045	.062	.094	.049	.069	.072	.049	.070	.058	.052	.043	.042	-.060	-.008

(f) M,0.82.

Percent Semi-span	Percent chord	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface
		Angle of attack, degrees													
12.5	0	-0.108	---	0.230	---	0.389	---	0.338	---	0.728	---	0.705	---	0.634	---
	5	.237	---	.164	---	.030	---	-.116	---	-.385	---	-.417	---	-.838	---
	10	.188	-0.296	.112	-0.225	.010	-0.080	-.188	0.034	-.389	0.163	-.588	0.302	-.678	0.349
	20	.090	-.282	.083	-.238	-.060	-.130	-.158	-.037	-.290	.070	-.431	.188	-.588	.240
	30	.089	-.266	-.035	-.212	-.111	-.111	-.200	-.035	-.382	.082	-.470	.158	-.584	.198
	40	-.013	-.300	-.078	-.248	-.140	-.175	-.288	-.107	-.330	-.082	-.459	.072	-.588	.189
	50	-.080	---	-.103	---	-.148	---	-.249	---	-.340	---	-.464	---	-.770	---
	60	-.063	-.293	-.113	-.267	-.149	-.170	-.228	-.144	-.311	-.073	-.413	.002	-.550	.088
	70	-.048	-.278	-.107	-.240	-.158	-.180	-.210	-.142	-.276	-.088	-.130	-.018	-.415	0.
	80	-.037	-.185	-.068	-.170	-.117	-.133	-.185	-.181	-.214	-.062	-.245	-.007	-.278	.008
	90	-.006	-.087	-.040	-.089	-.062	-.057	-.088	-.077	-.107	-.088	-.120	.017	-.132	.048
35	0	.092	---	.425	---	.788	---	.482	---	.380	---	-.488	---	-.188	---
	5	.230	---	.125	---	-.088	---	-.260	---	-.454	---	-1.312	---	-1.530	---
	10	.150	-.340	.072	-.372	-.088	-.182	-.190	-.040	-.328	.138	-.832	.244	-1.130	.178
	20	.088	-.320	-.075	-.317	-.142	-.282	-.240	-.098	-.408	.018	-.530	.132	-.930	.180
	30	-.007	-.348	-.080	-.383	-.178	-.215	-.370	-.130	-.398	-.032	-.522	.045	-.725	.132
	40	-.050	-.382	-.118	-.315	-.200	-.285	-.278	-.138	-.375	-.078	-.450	.038	-.405	.050
	50	-.080	-.294	-.140	-.288	-.198	-.287	-.240	-.168	-.330	-.108	-.348	-.030	-.178	0
	60	-.040	-.280	-.128	-.230	-.181	-.180	-.305	-.140	-.420	-.098	-.340	-.058	-.340	-.038
	70	-.089	-.132	-.072	-.164	-.105	-.105	-.132	-.083	-.170	-.078	-.130	-.009	-.180	.008
	80	.016	-.030	-.017	-.066	-.108	-.042	-.094	-.030	-.078	-.018	-.076	.017	-.075	.087
	90	.092	.037	.087	.038	-.088	.045	.018	.038	0	.085	-.002	.044	0.	.045
55	0	.153	---	.420	---	.457	---	.400	---	.381	---	.340	---	1.15	---
	5	-.078	---	.130	---	.092	---	.004	---	-.049	---	-.208	---	-.343	---
	10	.081	-.400	.045	-.178	-.098	-.187	-.249	-.001	-.479	.129	-1.170	.234	-1.300	.289
	20	-.088	-.480	-.088	-.170	-.131	-.191	-.249	-.078	-.174	.040	-.847	.139	-1.120	.170
	30	-.090	-.369	-.077	-.300	-.159	-.200	-.290	-.107	-.174	-.011	-.305	.040	-.618	.094
	40	-.098	---	-.101	---	-.170	---	-.241	---	-.329	---	-.330	---	-.207	---
	50	-.108	---	-.114	---	-.170	---	-.281	---	-.378	---	-.289	---	-.375	---
	60	-.081	-.229	-.081	-.131	-.123	-.150	-.160	-.118	-.159	-.068	-.209	-.080	-.347	-.010
	70	-.063	-.146	-.074	-.111	-.073	-.080	-.097	-.098	-.120	-.082	-.142	-.001	-.158	.005
	80	-.030	---	.000	---	-.009	---	-.038	---	-.040	---	-.072	---	-.070	---
	90	.014	.001	.040	.078	.040	.048	.040	.040	.131	0.50	.011	.099	-.008	.098
75	0	-.230	---	.016	---	.477	---	.708	---	.407	---	.301	---	.317	---
	5	.212	---	.143	---	-.048	---	-.479	---	-.430	---	-1.314	---	-1.778	---
	10	.128	-.371	.089	-.148	-.061	-.166	-.247	-.012	-.315	.138	-1.197	.297	-1.877	.302
	20	.026	-.324	-.027	-.307	-.129	-.180	-.278	-.077	-.170	.040	-.842	.131	-1.628	.175
	30	-.049	-.256	-.078	-.298	-.150	-.158	-.248	-.118	-.138	-.085	-.330	.059	-.549	.083
	40	-.058	-.262	-.109	-.278	-.166	-.180	-.239	-.128	-.301	-.082	-.261	.019	-.418	.045
	50	-.071	---	-.105	---	-.147	---	-.192	---	-.240	---	-.218	---	-.280	---
	60	-.070	-.142	-.097	-.171	-.125	-.110	-.159	-.117	-.184	-.080	-.171	-.030	-.230	-.082
	70	-.039	-.090	-.062	-.099	-.089	-.082	-.090	-.078	-.118	-.050	-.113	-.088	-.170	-.080
	80	.080	-.032	-.016	-.008	-.015	-.038	-.028	-.010	-.075	-.002	-.039	.039	-.097	-.084
	90	.115	.089	.115	.030	.180	.050	.115	.050	.108	.049	.109	.059	.189	.086
95	0	.109	---	.308	---	.414	---	.428	---	.488	---	.445	---	.380	---
	5	.165	---	.098	---	-.078	---	-.288	---	-.799	---	-1.217	---	-1.442	---
	10	.061	-.148	-.018	-.147	-.130	-.059	-.262	.030	-.438	.109	-1.010	.171	-.888	.198
	20	-.050	-.154	-.180	-.182	-.148	-.160	-.201	-.128	-.362	-.069	-.198	-.018	-.649	-.002
	30	---	-.181	---	-.170	---	-.154	---	-.138	---	-.095	---	-.062	---	-.042
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.096	---	-.121	---	-.128	---	-.140	---	-.167	---	-.152	---	-.279	---
	60	-.048	-.073	-.082	-.091	-.091	-.072	-.069	-.075	-.111	-.072	-.125	-.064	-.210	-.088
	70	-.018	-.012	-.032	-.021	-.081	-.019	-.021	-.019	-.094	-.085	-.079	-.064	-.145	-.036
	80	.030	.049	.080	.041	.032	.049	.035	.033	.009	.030	-.089	.016	-.106	-.012
	90	.071	.062	.078	.069	.068	.069	.065	.069	.040	.069	.017	.044	-.059	-.002

NACA

TABLE VI.– CONTINUED

(g) M,0.84.

Percent semi-span	Percent chord	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0°, Upper surface	0°, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
12.5	0	-0.084	---	0.302	---	0.618	---	0.762	---	0.843	---	0.727	---
	5	.050	---	.160	---	.020	---	-.130	---	-.489	---	-.588	---
	10	.179	-0.324	.110	-0.203	-.006	-0.042	-.132	0.071	-.388	0.088	-.515	0.298
	20	.078	-.329	.025	-.226	-.066	-.069	-.165	-.006	-.392	-.019	-.448	-.180
	30	.010	-.300	-.034	-.203	-.089	-.088	-.210	-.011	-.430	-.087	-.438	.142
	40	-.025	-.340	-.068	-.058	-.146	-.150	-.232	-.081	-.443	-.102	-.478	.044
	50	-.070	---	-.101	---	-.172	---	-.276	---	-.469	---	-.500	---
	60	-.084	-.350	-.113	-.072	-.172	-.138	-.247	-.121	.447	-.146	-.588	-.012
	70	-.087	-.308	-.110	-.047	-.160	-.165	-.288	-.123	-.397	-.179	-.438	-.038
	80	-.060	-.280	-.080	-.182	-.118	-.180	-.162	-.058	-.313	-.158	-.272	-.020
	90	-.039	-.118	-.045	-.088	-.038	-.053	.078	-.037	-.210	-.037	-.138	.008
35	0	.469	---	.054	---	.782	---	.602	---	.134	---	.043	---
	5	.217	---	.120	---	-.058	---	-.298	---	-.770	---	-1.270	---
	10	.135	-.424	.078	-.418	-.067	-.145	-.310	0	-.372	.128	-.980	.198
	20	.010	-.447	-.033	-.393	-.198	-.178	-.280	-.088	-.440	.030	-.718	.062
	30	-.028	-.412	-.068	-.390	-.184	-.198	-.285	-.109	-.442	-.030	-.600	.018
	40	-.078	-.389	-.120	-.367	-.208	-.206	-.360	-.140	-.462	-.073	-.638	-.044
	50	-.103	-.342	-.140	-.368	-.203	-.212	-.280	-.138	-.358	-.168	-.368	-.088
	60	-.080	-.268	-.102	-.298	-.161	-.168	-.212	-.133	-.284	-.100	-.308	-.086
	70	-.050	-.166	-.069	-.205	-.106	-.100	-.145	-.062	-.138	-.060	-.218	-.065
	80	-.006	-.060	-.086	-.120	-.032	-.047	-.062	-.062	-.084	.085	-.136	-.046
	90	.030	.020	.038	-.038	.030	.020	.082	.027	-.029	.018	-.058	.081
55	0	.211	---	.497	---	.490	---	.478	---	.308	---	.308	---
	5	-.080	---	.115	---	.087	---	.080	---	-.146	---	-.136	---
	10	.100	-.627	.031	-.368	-.129	-.144	-.290	.086	-.490	.130	-1.180	.218
	20	0	-.381	-.041	-.330	-.148	-.161	-.279	-.051	-.421	.032	-.981	.110
	30	-.035	-.356	-.086	-.310	-.170	-.175	-.274	-.080	-.397	-.089	-.695	.038
	40	-.079	---	-.119	---	-.180	---	-.261	---	-.368	---	-.400	---
	50	-.089	---	-.120	---	-.172	---	-.237	---	-.314	---	-.283	---
	60	-.079	-.201	-.091	-.199	-.121	-.131	-.167	-.300	-.259	-.074	-.207	-.049
	70	-.040	-.119	-.060	-.111	-.070	-.040	-.103	-.103	-.145	-.037	-.143	-.080
	80	.008	---	-.003	---	0	---	-.083	---	-.069	---	-.060	---
	90	.045	.035	.036	.015	.057	.065	.040	.057	.011	.046	.010	.010
75	0	-.209	---	.095	---	.581	---	.720	---	.705	---	.603	---
	5	.130	---	.141	---	-.068	---	-.288	---	-.991	---	-1.298	---
	10	.098	-.750	.055	-.362	-.089	-.112	-.272	.030	-.708	.156	-1.162	.048
	20	.007	-.346	-.087	-.298	-.130	-.132	-.270	-.042	-.365	.054	-.979	.188
	30	-.041	-.319	-.065	-.279	-.146	-.150	-.252	-.089	-.341	-.013	-.467	.074
	40	-.072	-.288	-.100	-.247	-.162	-.145	-.240	-.108	-.312	-.045	-.328	.008
	50	-.087	---	-.099	---	-.132	---	-.198	---	-.261	---	-.200	---
	60	-.079	-.181	-.089	-.168	-.118	-.119	-.192	-.100	-.186	-.060	-.145	-.039
	70	-.050	-.105	-.059	.090	-.055	-.059	-.088	-.050	-.189	-.045	-.087	-.022
	80	-.010	-.025	.008	-.010	.013	.001	-.009	.003	-.040	-.001	-.061	.015
	90	.129	.046	.136	.062	.142	.082	.137	.065	.119	.075	.129	.077
95	0	.118	---	.374	---	.659	---	.693	---	.619	---	.490	---
	5	.144	---	.099	---	-.104	---	-.311	---	-.958	---	-1.271	---
	10	.038	-.250	-.012	-.162	-.139	-.039	-.286	.045	-.458	.110	-1.138	.165
	20	-.079	-.159	-.091	-.194	-.142	-.155	-.211	-.116	-.218	-.075	-.479	-.089
	30	---	-.211	---	-.203	---	-.149	---	-.125	---	-.108	---	-.080
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.119	---	-.112	---	-.111	---	-.138	---	-.165	---	-.144	---
	60	-.090	-.104	-.072	-.089	-.065	-.071	-.080	-.068	-.117	-.081	-.118	-.068
	70	-.046	-.039	-.027	-.029	-.010	-.009	-.019	-.012	-.075	-.084	-.078	-.089
	80	.012	.019	.030	.041	.050	.052	.040	.030	.004	.087	-.088	.019
	90	.056	.062	.085	.080	.081	.096	.080	.088	.068	.064	.080	.044

(h) M,0.86.

Percent semi-span	Percent chord	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
12.5	0	-0.080	---	0.347	---	0.636	---	0.747	---	0.760	---	0.798	---
	5	.862	---	.140	---	.089	---	-.088	---	-.287	---	-.323	---
	10	.194	-0.304	.089	-0.199	.001	-0.058	-.098	0.031	-.257	0.168	-.457	0.310
	20	.094	-.321	0	-.230	-.063	-.104	-.140	-.036	-.273	.049	-.412	.190
	30	.089	-.283	-.060	-.210	-.120	-.100	-.190	-.036	-.318	.050	-.440	.180
	40	-.015	-.329	-.099	-.467	-.190	-.162	-.217	-.307	-.337	-.005	-.440	.073
	50	-.059	---	-.139	---	-.180	---	-.247	---	-.366	---	-.472	---
	60	-.072	-.367	-.143	-.300	-.184	-.183	-.247	-.152	-.374	-.087	-.487	-.081
	70	-.079	-.382	-.148	-.280	-.178	-.188	-.238	-.153	-.342	-.100	-.500	-.085
	80	-.054	-.280	-.116	-.210	-.143	-.143	-.178	-.118	-.240	-.078	-.367	-.012
	90	-.080	-.102	-.066	-.122	-.065	-.065	-.086	-.065	-.128	-.038	-.142	.013
35	0	.494	---	.678	---	.720	---	.644	---	.410	---	.147	---
	5	.211	---	.088	---	-.075	---	-.237	---	-.685	---	-1.150	---
	10	.136	-.508	.043	-.360	-.068	-.178	-.178	-.048	-.355	.100	-.864	.210
	20	.008	-.518	-.067	-.350	-.160	-.200	-.258	-.122	-.402	.008	-.700	.100
	30	-.087	-.500	-.112	-.358	-.198	-.220	-.280	-.160	-.430	-.040	-.548	.032
	40	-.078	-.528	-.155	-.364	-.225	-.241	-.298	-.186	-.442	-.087	-.583	-.089
	50	-.114	-.487	-.170	-.335	-.280	-.240	-.278	-.205	-.370	-.120	-.688	-.068
	60	-.078	-.318	-.130	-.260	-.176	-.190	-.208	-.167	-.258	-.100	-.373	-.068
	70	-.043	-.280	-.085	-.165	-.112	-.112	-.135	-.102	-.158	-.059	-.108	-.035
	80	.002	-.110	-.028	-.080	-.048	-.048	-.053	-.060	-.049	-.080	-.080	.008
	90	.040	-.046	.020	0	.020	-.018	.015	.080	.022	.040	.090	.030
55	0	.232	---	.498	---	.668	---	.680	---	.571	---	.396	---
	5	-.078	---	.101	---	.069	---	.017	---	-.062	---	-.262	---
	10	.082	-.731	.001	-.398	-.131	-.193	-.269	-.060	-.558	.021	-1.014	.130
	20	-.018	-.412	-.069	-.340	-.178	-.202	-.271	-.130	-.412	.085	.913	.119
	30	-.051	-.350	-.114	-.319	-.183	-.220	-.280	-.148	-.387	-.082	-.790	.050
	40	-.079	---	-.140	---	-.206	---	-.269	---	-.324	---	-.530	---
	50	-.093	---	-.150	---	-.202	---	-.248	---	-.283	---	-.479	---
	60	-.062	-.284	-.111	-.209	-.150	-.160	-.183	-.130	-.199	-.071	-.168	-.038
	70	-.040	-.103	-.080	-.121	-.100	-.100	-.120	-.074	-.115	-.088	-.100	0
	80	.009	---	-.080	---	-.021	---	-.030	---	-.030	---	-.087	---
	90	.049	.030	.021	.020	.030	.030	.089	.089	.089	.068	.085	.079
75	0	-.163	---	.162	---	.541	---	.702	---	.708	---	.611	---
	5	.170	---	.109	---	-.072	---	-.255	---	-.784	---	-1.192	---
	10	.085	-.780	.089	-.379	-.108	-.170	-.236	-.020	-.589	.179	-1.082	.239
	20	-.002	-.386	-.054	-.304	-.158	-.180	-.258	-.081	-.415	.038	-.938	.180
	30	-.040	-.250	-.095	-.290	-.171	-.208	-.245	-.125	-.312	-.089	-.702	.078
	40	-.070	-.279	-.189	-.260	-.189	-.169	-.238	-.133	-.292	-.054	-.378	.087
	50	-.078	---	-.121	---	-.163	---	-.198	---	-.227	---	-.238	---
	60	-.078	-.169	-.112	-.172	-.150	-.145	-.160	-.119	-.169	-.060	-.141	-.048
	70	-.043	-.080	-.078	-.098	-.078	-.082	-.089	-.069	-.097	-.092	-.061	-.081
	80	.005	-.012	-.019	-.019	-.014	-.012	-.018	-.008	-.018	.004	-.003	.019
	90	.133	.059	.131	.058	.130	.059	.130	.059	.120	.060	.124	.040
95	0	.140	---	.410	---	.640	---	.698	---	.645	---	.319	---
	5	.128	---	.460	---	-.108	---	-.071	---	-.778	---	-1.181	---
	10	.089	-.430	-.058	-.182	-.161	-.069	-.270	.021	-.604	.108	-1.098	.160
	20	-.085	-.099	-.132	-.196	-.180	-.176	-.210	-.140	-.198	-.101	-.605	-.052
	30	---	-.178	---	-.210	---	-.170	---	-.140	---	-.128	---	-.101
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.120	---	-.140	---	-.145	---	-.140	---	-.154	---	-.128	---
	60	-.075	-.089	-.095	-.089	-.090	-.099	-.088	-.078	-.100	-.070	-.099	-.069
	70	-.039	-.085	-.030	-.030	-.087	-.018	-.090	-.010	-.038	-.085	-.099	-.086
	80	.019	.030	.018	.042	.031	.045	.040	.050	.030	.022	-.012	.035
	90	.065	.075	.098	.085	.084	.089	.090	.085	.070	.071	.085	.047

TABLE VI.— CONTINUED

(i) M,0.88.

Percent semi-span	Percent chord	Angle of attack, degrees											
		-4		-2		0		2		4		6	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
12.5	0	0.032	---	0.347	---	0.624	---	0.760	---	0.800	---	0.760	---
	5	.273	---	.177	---	.058	---	-.102	---	-.257	---	-.147	---
	10	.205	-0.262	.130	-0.180	.008	-0.050	-.107	0.060	-.258	0.198	-.440	0.300
	20	.105	-.296	.042	-.210	-.045	-.106	-.150	-.013	-.270	.097	-.400	.187
	30	.040	-.285	-.022	-.195	-.102	-.102	-.208	-.027	-.309	.079	-.427	.152
	40	-.008	-.318	-.064	-.252	-.134	-.168	-.230	-.092	-.365	.002	-.435	.062
	50	-.049	---	-.100	---	-.172	---	-.270	---	-.365	---	-.462	---
	60	-.068	-.379	-.115	-.314	-.180	-.220	-.254	-.152	-.388	-.068	-.480	-.027
	70	-.078	-.330	-.122	-.307	-.177	-.218	-.274	-.154	-.402	-.082	-.506	-.040
	80	-.060	-.289	-.097	-.211	-.140	-.157	-.219	-.180	-.335	-.060	-.522	-.030
	90	-.080	-.118	-.069	-.090	-.065	-.062	-.100	-.074	-.130	-.088	-.280	-.008
35	0	.530	---	.455	---	.152	---	.435	---	.400	---	.120	---
	5	.218	---	.100	---	-.064	---	-.274	---	-.743	---	-1.258	---
	10	.142	-.410	.050	-.384	-.070	-.156	-.208	-.078	-.430	.130	-.996	.062
	20	.018	-.440	-.065	-.382	-.168	-.225	-.292	-.145	-.411	.035	-.880	.018
	30	-.025	-.427	-.110	-.131	-.203	-.250	-.329	-.176	-.458	-.082	-.820	-.020
	40	-.076	-.465	-.158	-.409	-.241	-.280	-.354	-.218	-.508	-.072	-.700	-.108
	50	-.110	-.315	-.180	-.408	-.240	-.280	-.337	-.235	-.530	-.100	-.788	-.150
	60	-.090	-.282	-.140	-.272	-.200	-.214	-.233	-.233	-.508	-.088	-.750	-.120
	70	-.040	-.140	-.097	-.170	-.111	-.135	-.134	-.133	-.350	-.040	-.374	-.150
	80	.002	-.040	-.035	-.085	-.042	-.040	-.080	-.080	-.084	0	-.170	-.113
	90	.040	.086	.012	-.030	.010	.012	-.022	-.082	-.082	.099	-.077	-.077
55	0	.300	---	.490	---	.661	---	.604	---	.252	---	.418	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	.101	-.708	.074	-.400	-.130	-.222	-.307	-.038	-.489	.110	-1.080	.210
	20	.002	-.482	-.040	-.379	-.173	-.241	-.388	-.100	-.500	.080	-.909	.109
	30	-.033	-.456	-.086	-.340	-.218	-.250	-.318	-.136	-.505	-.041	-.798	.040
	40	-.072	---	-.180	---	-.200	---	-.298	---	-.481	---	-.690	---
	50	-.082	---	-.130	---	-.215	---	-.270	---	-.301	---	-.571	---
	60	-.059	-.181	-.092	-.200	-.180	-.160	-.200	-.131	-.207	-.088	-.308	-.040
	70	-.030	-.098	-.060	-.108	-.109	-.109	-.181	-.070	-.131	-.041	-.182	-.005
	80	.002	---	.000	---	-.030	---	-.190	---	-.050	---	-.015	---
	90	.065	.020	.085	.050	.028	.011	.130	.130	.130	.130	.150	.165
75	0	-.107	---	.131	---	.581	---	.783	---	.728	---	.667	---
	5	.198	---	.132	---	-.459	---	-.358	---	-.654	---	-1.139	---
	10	.109	-.771	.042	-.438	-.094	-.182	-.259	.001	-.762	.152	-1.032	.230
	20	.012	-.772	-.041	-.333	-.153	-.199	-.268	-.042	-.407	.050	-.970	.112
	30	-.038	-.268	-.085	-.312	-.168	-.222	-.269	-.114	-.368	-.015	-.676	.040
	40	-.049	-.257	-.116	-.273	-.192	-.209	-.265	-.128	-.265	-.040	-.468	.000
	50	-.080	---	-.120	---	-.158	---	-.210	---	-.205	---	-.488	---
	60	-.069	-.160	-.103	-.177	-.148	-.160	-.182	-.119	-.150	-.072	-.210	-.042
	70	-.039	-.081	-.065	-.099	-.078	-.087	-.088	-.069	-.078	-.040	-.495	-.030
	80	.018	-.006	-.005	-.019	-.005	-.007	-.022	.009	-.011	.019	.015	.060
	90	.148	.069	.130	.077	.132	.040	.139	.062	.140	.069	.140	.090
95	0	.200	---	.389	---	.427	---	.701	---	.656	---	.546	---
	5	.157	---	.095	---	-.092	---	-.362	---	-.841	---	-1.116	---
	10	.050	-.451	-.082	-.182	-.195	-.072	-.310	.033	-.802	.119	-1.073	.160
	20	-.073	-.048	-.128	-.160	-.180	-.180	-.319	-.114	-.337	-.090	-.926	-.060
	30	---	-.123	---	-.195	---	-.180	---	-.146	---	-.112	---	-.131
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.099	---	-.128	---	-.146	---	-.141	---	-.137	---	-.085	---
	60	-.059	-.072	-.085	-.076	-.080	-.077	-.082	-.080	-.098	-.070	-.079	-.078
	70	-.008	-.019	-.015	-.005	-.011	-.009	-.021	0	-.030	-.010	-.050	-.034
	80	-.045	.051	.030	.060	.046	.060	.039	.092	.085	.049	-.080	.025
	90	-.080	.089	.080	.099	.085	.099	.090	.077	.070	.079	.086	.099

(j) M,0.90.

Percent semi-span	Percent chord	Angle of attack, degrees											
		-4		-2		0		2		4		6	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
12.5	0	0.080	---	0.419	---	0.669	---	0.777	---	0.818	---	0.779	---
	5	.280	---	.150	---	.040	---	-.098	---	-.270	---	-.479	---
	10	.209	-0.272	.180	-0.162	.018	-0.089	-.099	0.080	-.242	0.200	-.420	0.315
	20	.107	-.270	.008	-.200	-.095	-.091	-.148	-.001	-.250	.102	-.385	.194
	30	.038	-.259	-.045	-.170	-.112	-.092	-.190	-.013	-.296	.080	-.409	.150
	40	-.008	-.310	-.085	-.250	-.147	-.160	-.286	-.067	-.313	.007	-.435	.078
	50	-.097	---	-.130	---	-.190	---	-.273	---	-.348	---	-.450	---
	60	-.075	-.376	-.148	-.309	-.210	-.232	-.300	-.149	-.378	-.075	-.462	-.025
	70	-.088	-.198	-.158	-.345	-.220	-.240	-.318	-.162	-.408	-.092	-.492	-.045
	80	-.075	-.390	-.132	-.313	-.181	-.189	-.297	-.125	-.419	-.078	-.518	-.038
	90	-.034	-.319	-.067	-.135	-.082	-.082	-.134	-.097	-.236	-.030	-.424	-.082
35	0	.547	---	.694	---	.735	---	.048	---	.440	---	.250	---
	5	.022	---	.060	---	-.082	---	-.276	---	-.718	---	-1.402	---
	10	.136	-.188	.038	-.320	-.082	-.166	-.309	-.013	-.418	.129	-.800	.225
	20	.018	-.418	-.080	-.330	-.182	-.210	-.299	-.088	-.419	.028	-.716	.112
	30	-.032	-.410	-.128	-.349	-.286	-.242	-.375	-.132	-.437	-.072	-.491	.044
	40	-.085	-.443	-.178	-.400	-.373	-.288	-.386	-.172	-.466	-.087	-.560	-.030
	50	-.122	-.500	-.280	-.468	-.360	-.308	-.449	-.088	-.548	-.118	-.618	-.048
	60	-.100	-.508	-.150	-.384	-.318	-.223	-.388	-.160	-.527	-.107	-.680	-.063
	70	-.075	-.212	-.090	-.140	-.120	-.118	-.140	-.140	-.260	-.060	-.560	-.034
	80	0	-.032	-.015	-.052	-.045	-.042	-.042	-.042	-.070	-.025	-.143	0
	90	.040	.002	.035	.038	.024	.030	.024	.045	.025	.038	-.088	.040
55	0	.354	---	.511	---	.678	---	.488	---	.400	---	.144	---
	5	.026	---	.111	---	.070	---	-.007	---	-.107	---	-.225	---
	10	.200	-.670	-.020	-.381	-.150	-.198	-.319	-.083	-.682	.127	-.988	.212
	20	.000	-.408	-.088	-.389	-.191	-.281	-.342	-.090	-.473	.040	-.885	.109
	30	-.040	-.460	-.126	-.403	-.220	-.241	-.365	-.180	-.460	-.038	-.781	.048
	40	-.080	---	-.150	---	-.227	---	-.356	---	-.300	---	-.720	---
	50	-.095	---	-.160	---	-.217	---	-.372	---	-.300	---	-.685	---
	60	-.058	-.158	-.117	-.191	-.150	-.170	-.130	-.125	-.185	-.060	-.446	-.031
	70	-.036	-.082	-.079	-.113	-.100	-.069	-.100	-.060	-.075	-.015	-.148	.005
	80	.087	---	-.018	---	-.038	---	-.015	---	.002	---	-.036	---
	90	.078	.070	.040	.040	.040	.045	.043	.040	.090	.076	.046	.078
75	0	-.034	---	.220	---	.573	---	.732	---	.728	---	.689	---
	5	.198	---	.094	---	-.084	---	-.421	---	-.840	---	-1.055	---
	10	.200	-.784	-.015	-.425	-.118	-.170	-.287	.027	-.714	.144	-.951	.205
	20	.007	-.694	-.078	-.349	-.171	-.189	-.315	-.050	-.682	.046	-.801	.114
	30	-.054	-.435	-.113	-.338	-.155	-.220	-.282	-.079	-.535	-.016	-.857	.043
	40	-.075	-.320	-.147	-.285	-.201	-.209	-.267	-.110	-.392	-.041	-.807	.002
	50	-.082	---	-.141	---	-.178	---	-.211	---	-.178	---	-.389	---
	60	-.073	-.122	-.131	-.188	-.161	-.153	-.159	-.108	-.108	-.075	-.479	-.059
	70	-.041	-.056	-.080	-.099	-.080	-.080	-.070	-.058	-.050	-.039	-.150	-.018
	80	.018	.010	-.019	-.018	-.009	-.008	.002	.017	.019	.017	-.048	.034
	90	.150	.082	.138	.068	.149	.073	.155	.080	.151	.082	.143	.082
95	0	.232	---	.445	---	.662	---	.713	---	.698	---	.581	---
	5	.137	---	.062	---	-.100	---	-.405	---	-.791	---	-.988	---
	10	.057	-.430	-.090	-.189	-.171	-.060	-.339	.050	-.776	.119	-.988	.162
	20	-.111	-.340	-.182	-.241	-.218	-.011	-.377	-.165	-.592	-.105	-.921	-.057
	30	---	-.030	---	-.177	---	-.182	---	-.150	---	-.143	---	-.133
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.095	---	-.134	---	-.131	---	-.129	---	-.108	---	-.057	---
	60	-.089	-.066	-.091	-.071	-.065	-.072	-.069	-.078	-.080	-.060	-.032	-.065
	70	-.012	-.009	-.080	-.009	-.008	-.016	.001	.005	-.021	.009	-.025	-.018
	80	.040	.052	.030	.052	.055	.079	.060	.060	.030	.052	.009	.039
	90	.082	.095	.080	.095	.081	.103	.099	.105	.080	.089	.060	.080

NACA

TABLE VI.– CONCLUDED

(k) M,0.92.

Percent semi-span	Percent chord	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
		Angle of attack, degrees											
12.5	0	0.172	---	0.419	---	0.664	---	0.764	---	0.815	---	0.815	---
	5	.256	---	.160	---	.040	---	-.082	---	-.060	---	-.132	---
	10	.150	-0.209	.110	-0.166	.012	-0.038	-.068	0.082	-.239	0.207	-.158	0.112
	20	.098	-.239	.020	-.200	-.059	-.071	-.135	.002	-.269	.100	-.150	.192
	30	.028	-.219	-.045	-.190	-.115	-.108	-.187	-.018	-.290	.078	-.380	.185
	40	-.019	-.267	-.089	-.246	-.158	-.169	-.217	-.082	-.308	.002	-.368	.079
	50	-.070	---	-.136	---	-.205	---	-.260	---	-.348	---	-.408	---
	60	-.090	-.338	-.165	-.327	-.229	-.258	-.278	-.165	-.374	-.090	-.426	-.080
	70	-.110	-.362	-.182	-.339	-.251	-.277	-.280	-.162	-.408	-.118	-.450	-.032
	80	-.104	-.364	-.180	-.377	-.254	-.262	-.340	-.158	-.468	-.028	-.478	-.008
	90	-.060	-.297	-.106	-.280	-.150	-.140	-.227	-.075	-.368	-.066	-.437	-.043
35	0	.338	---	.648	---	-.174	---	.080	---	.148	---	.381	---
	5	.158	---	.067	---	.378	---	-.348	---	-.715	---	-.990	---
	10	.078	-.347	.085	-.332	-.258	-.258	-.380	-.088	-.418	.115	-.738	.198
	20	-.018	-.378	-.070	-.342	-.264	-.307	-.430	-.302	-.481	.018	-.600	.088
	30	-.066	-.368	-.150	-.362	-.268	-.290	-.338	-.150	-.427	-.040	-.478	.011
	40	-.130	-.402	-.212	-.413	-.279	-.301	-.381	-.280	-.474	-.180	-.582	-.090
	50	-.180	-.478	-.246	-.430	-.136	-.369	-.415	-.371	-.540	-.142	-.588	-.301
	60	-.150	-.430	-.170	-.408	-.370	-.385	-.483	-.382	-.530	-.130	-.604	-.308
	70	-.036	-.310	-.120	-.318	-.168	-.132	-.368	-.130	-.381	-.080	-.480	-.097
	80	-.038	-.075	-.055	-.048	-.087	-.087	-.050	-.049	-.378	-.066	-.314	-.098
	90	.018	.005	.011	.005	.018	.018	.065	.088	-.018	.030	-.038	.088
55	0	.402	---	.393	---	.681	---	.689	---	.624	---	.916	---
	5	-.081	---	.059	---	.043	---	-.030	---	-.110	---	-.170	---
	10	.025	-.382	-.091	-.409	-.169	-.281	-.319	-.048	-.406	.180	-.858	.153
	20	-.078	-.377	-.105	-.384	-.281	-.259	-.359	-.119	-.541	.028	-.775	.070
	30	-.108	-.413	-.150	-.436	-.269	-.237	-.398	-.150	-.148	-.048	-.738	-.019
	40	-.116	---	-.272	---	-.282	---	-.429	---	-.529	---	-.638	---
	50	-.150	---	-.182	---	-.249	---	-.426	---	-.588	---	-.632	---
	60	-.095	-.381	-.131	-.351	-.185	-.183	-.200	-.141	-.541	-.038	-.490	-.414
	70	-.054	-.108	-.070	-.166	-.181	-.107	-.100	-.075	-.160	-.040	-.381	-.049
	80	.018	---	-.023	---	-.013	---	-.030	---	-.036	---	-.430	---
	90	.077	.065	.032	-.098	.031	.012	.017	.049	.038	.061	-.098	.040
75	0	.099	---	.252	---	.571	---	.720	---	.725	---	.649	---
	5	.091	---	.041	---	-.100	---	-.431	---	-.738	---	-.560	---
	10	.030	-.538	.015	-.458	-.137	-.212	-.319	-.007	-.780	.119	-.864	.178
	20	-.058	-.552	-.071	-.438	-.150	-.219	-.370	-.080	-.848	.085	-.819	.049
	30	-.110	-.415	-.118	-.442	-.207	-.248	-.359	-.132	-.580	-.039	-.788	-.008
	40	-.131	-.441	-.148	-.481	-.288	-.237	-.341	-.141	-.538	-.069	-.709	-.049
	50	-.101	---	-.136	---	-.154	---	-.238	---	-.473	---	-.638	---
	60	-.088	-.108	-.132	-.155	-.170	-.175	-.188	-.130	-.147	-.077	-.318	-.088
	70	-.041	-.028	-.078	-.072	-.030	-.081	-.089	-.029	.088	-.059	-.209	-.056
	80	.090	.043	-.008	.012	-.004	-.004	-.009	-.018	.031	.009	-.072	.008
	90	.178	.130	.124	.089	.161	.088	.142	.041	.259	.079	.148	.048
95	0	.329	---	.448	---	.460	---	.718	---	.671	---	.468	---
	5	.032	---	.005	---	-.038	---	-.389	---	-.691	---	-.816	---
	10	-.405	-.388	-.053	-.308	-.178	-.074	-.409	.046	-.780	.112	-.846	.148
	20	-.152	-.381	-.170	-.348	-.270	-.249	-.372	-.180	-.781	-.128	-.890	-.302
	30	---	-.200	---	-.189	---	-.203	---	-.178	---	-.205	---	-.318
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.089	---	-.126	---	-.116	---	-.187	---	-.089	---	-.116	---
	60	-.045	-.064	-.079	-.081	-.075	-.078	-.065	-.078	-.048	-.068	-.081	-.181
	70	.081	.025	-.081	-.019	-.018	-.049	-.009	.008	.008	.008	.082	-.082
	80	.059	.070	.036	.094	.050	.049	.035	.059	.048	.065	.070	.035
	90	.098	.079	.061	.108	.180	.036	.189	.100	.076	.076	.089	.089

(l) M,0.94.

Percent semi-span	Percent chord	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface
		Angle of attack, degrees											
12.5	0	0.173	---	0.461	---	0.680	---	0.788	---	0.820	---	0.818	---
	5	.286	---	.164	---	.065	---	-.061	---	-.238	---	-.154	---
	10	.219	-0.197	.112	-0.145	.032	-0.012	-.070	0.060	-.218	0.208	-.360	0.305
	20	.118	-.224	.028	-.184	-.041	-.073	-.187	.010	-.230	.102	-.338	.061
	30	.050	-.203	-.040	-.173	-.075	-.078	-.168	-.005	-.270	.074	-.368	.108
	40	.004	-.250	-.088	-.230	-.115	-.147	-.296	-.068	-.265	[illegible]	-.387	.079
	50	-.050	---	-.140	---	-.150	---	-.278	---	-.329	---	-.408	---
	60	-.077	-.323	-.172	-.318	-.213	-.233	-.288	-.181	-.360	-.108	-.424	-.032
	70	-.108	-.348	-.208	-.329	-.248	-.266	-.312	-.216	-.370	-.138	-.452	-.070
	80	-.117	-.353	-.215	-.338	-.278	-.270	-.348	-.080	-.414	-.143	-.480	-.088
	90	-.081	-.389	-.176	-.325	-.248	-.243	-.304	-.180	-.380	-.118	-.478	-.079
35	0	.432	---	.141	---	.737	---	.072	---	.312	---	.127	---
	5	.177	---	.073	---	-.072	---	-.244	---	-.244	---	-.078	---
	10	.129	-.338	.036	-.272	-.069	-.152	-.184	-.028	-.412	.100	-.488	.218
	20	-.008	-.372	-.087	-.306	-.177	-.200	-.273	-.118	-.370	-.087	-.470	.098
	30	-.090	-.326	-.150	-.321	-.210	-.240	-.318	-.170	-.415	-.071	-.447	.008
	40	-.138	-.380	-.228	-.366	-.278	-.390	-.368	-.238	-.455	-.116	-.450	-.030
	50	-.170	-.453	-.275	-.440	-.350	-.378	-.498	-.303	-.383	-.208	-.568	-.109
	60	-.153	-.406	-.282	-.478	-.353	-.400	-.485	-.317	-.529	-.208	-.576	-.128
	70	-.108	-.460	-.280	-.448	-.330	-.342	-.459	-.210	-.544	-.140	-.505	-.109
	80	-.040	-.178	-.022	-.278	-.165	-.138	-.218	-.032	-.360	-.070	-.388	-.073
	90	.010	-.018	.046	-.019	.037	.058	-.006	.009	-.388	.010	-.178	-.048
55	0	.451	---	.282	---	.678	---	.702	---	.611	---	.282	---
	5	.039	---	.078	---	.049	---	.083	---	-.078	---	-.178	---
	10	.051	-.318	-.051	-.378	-.178	-.271	-.281	-.045	-.580	.054	-.810	.145
	20	-.049	-.369	-.119	-.361	-.238	-.264	-.335	-.140	-.480	-.039	-.749	.039
	30	-.090	-.410	-.208	-.400	-.290	-.310	-.358	-.195	-.480	-.100	-.740	-.048
	40	-.188	---	-.248	---	-.348	---	-.408	---	-.380	---	-.780	---
	50	-.143	---	-.248	---	-.370	---	-.473	---	-.376	---	-.822	---
	60	-.102	-.301	-.136	-.362	-.289	-.340	-.440	-.141	-.728	-.142	-.680	-.146
	70	-.060	-.249	-.068	-.290	-.095	-.080	-.290	-.050	-.119	-.082	-.648	-.095
	80	.004	---	-.021	---	.018	---	.018	---	-.118	---	-.231	---
	90	.051	.039	.039	.041	.051	.069	.073	.075	-.022	.023	-.120	-.019
75	0	.145	---	.128	---	.774	---	.716	---	.725	---	.718	---
	5	.139	---	.040	---	-.181	---	-.348	---	-.656	---	-.659	---
	10	.080	-.548	-.032	-.401	-.158	-.218	-.080	-.043	-.612	.080	-.780	.164
	20	-.028	-.501	-.117	-.377	-.222	-.250	-.349	-.110	-.569	-.012	-.730	.022
	30	-.081	-.418	-.149	-.450	-.258	-.259	-.372	-.158	-.540	-.060	-.729	-.020
	40	-.105	-.459	-.174	-.450	-.278	-.259	-.420	-.148	-.580	-.105	-.738	-.045
	50	-.110	---	-.164	---	-.213	---	-.388	---	-.539	---	-.780	---
	60	-.080	-.268	-.153	-.295	-.127	-.193	-.249	-.140	-.478	-.131	-.500	-.112
	70	-.042	-.038	-.099	-.062	-.073	-.079	-.038	-.060	-.118	-.065	-.306	-.080
	80	.019	.039	-.089	.003	.009	.008	.009	-.008	-.018	-.065	-.215	-.087
	90	.195	.119	.159	.090	.178	.051	.173	.048	.158	.098	.134	.030
95	0	.387	---	.409	---	.671	---	.786	---	.693	---	.448	---
	5	.028	---	.049	---	-.100	---	-.386	---	-.360	---	-.630	---
	10	.023	-.381	-.061	-.209	-.189	-.048	-.371	.059	-.788	.099	-.638	.138
	20	-.131	-.360	-.199	-.325	-.280	-.157	-.396	-.198	-.072	-.138	-.778	-.090
	30	---	-.404	---	-.280	---	-.326	---	-.280	---	-.288	---	-.288
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.145	---	-.160	---	-.069	---	-.068	---	-.080	---	-.116	---
	60	-.006	.011	-.036	-.018	-.060	-.049	-.080	-.039	.081	-.049	-.178	-.041
	70	.032	.041	.007	.030	.000	.029	.026	.025	.040	.036	-.071	-.038
	80	.060	.091	.051	.035	.064	.061	.087	.088	.069	.060	.016	.030
	90	.126	.186	.110	.180	.115	.114	.128	.114	-.005	.005	.069	.048

TABLE VII.— PRESSURE COEFFICIENTS ON A WING HAVING A SWEEPBACK ANGLE OF 45° AND AN ASPECT RATIO OF 6 IN COMBINATION WITH A FUSELAGE.

(a) M,0.40.

Percent semi-span	Percent chord	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.214	---	0.130	---	-0.019	---	-0.187	---	-0.311	---	-0.355	---
	10	.114	---	.078	---	-.038	---	-.141	---	-.234	---	-.400	---
	20	---	---	---	---	---	---	---	---	---	---	---	---
	30	.086	0.239	0	-0.156	-.054	-0.068	-.152	-0.036	-.176	0.086	-.297	0.050
	40	-.010	-.238	-.044	-.156	-.097	-.077	-.160	-.054	-.176	-.086	-.287	.050
	50	-.039	---	-.054	---	-.126	---	-.187	---	-.176	---	-.271	---
	60	-.045	-.206	-.060	-.156	-.116	-.116	-.152	-.071	-.198	-.038	-.239	.019
	70	-.045	-.174	-.060	-.148	-.094	-.106	-.135	-.071	-.167	-.049	-.206	-.038
	80	-.029	-.148	-.038	-.058	-.048	-.054	-.103	-.061	-.119	-.035	-.148	.003
	90	-.013	-.077	-.006	-.054	-.035	-.042	-.084	-.013	-.071	-.006	-.084	.019
35	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.213	---	.180	---	-.077	---	-.188	---	-.182	---	-.498	---
	10	---	-.177	---	-.251	---	-.100	---	.086	---	.128	---	.213
	20	.087	-.097	.003	-.203	-.097	-.100	-.199	-.006	-.279	.098	-.148	.132
	30	.003	-.068	-.029	-.187	-.104	-.126	-.183	-.054	-.247	-.003	-.174	.068
	40	-.013	---	-.057	---	-.116	---	-.167	---	-.284	---	-.305	---
	50	-.003	-.206	-.040	-.154	-.130	-.129	-.180	-.071	-.190	-.038	-.255	.005
	60	-.005	-.121	-.051	-.124	-.097	-.100	-.119	-.071	-.141	-.038	-.180	.005
	70	-.013	-.130	-.032	-.086	-.045	-.068	-.077	-.035	-.103	-.002	-.139	.003
	80	-.006	-.049	.003	-.085	-.038	-.003	-.039	.003	-.045	-.002	-.077	.035
	90	.008	---	.035	---	.086	---	.039	---	.030	---	-.039	---
55	0	-.210	---	.257	---	.432	---	.106	---	-.585	---	-1.045	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.345	---	-.252	---	-.126	---	.084	---	.096	---	.197
	20	---	-.303	---	-.187	---	-.138	---	-.006	---	.098	---	.148
	30	---	-.235	---	-.156	---	-.139	---	-.085	---	.086	---	.087
	40	-.030	---	-.003	---	-.100	---	-.160	---	-.199	---	-.274	---
	50	-.029	---	-.038	---	-.109	---	-.135	---	-.167	---	-.203	---
	60	-.013	---	-.039	---	-.074	---	-.109	---	-.135	---	-.174	---
	70	-.013	-.068	-.082	-.070	-.042	-.068	-.071	-.032	-.077	-.006	-.116	.011
	80	.013	-.039	.038	-.006	0	-.003	-.028	0	-.032	.006	-.061	.006
	90	.025	.016	.035	.035	.009	.038	.086	.032	.086	.046	-.013	.035
75	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.013	---	.124	---	-.078	---	-.254	---	-.391	---	-.394	---
	10	---	-.330	---	-.229	---	-.094	---	.098	---	.138	---	.209
	20	---	-.272	---	-.187	---	-.094	---	-.006	---	.098	---	.138
	30	.019	-.182	-.038	-.174	-.136	-.068	-.167	-.003	-.225	.038	-.338	.084
	40	-.008	-.206	-.008	-.154	-.097	-.106	-.160	-.038	-.196	-.005	-.371	.045
	50	-.016	---	-.035	---	-.094	---	-.115	---	-.187	---	-.282	---
	60	-.015	-.142	-.002	-.008	-.068	-.068	-.094	-.036	-.129	-.002	-.174	.001
	70	-.013	-.087	.003	-.037	-.035	-.080	-.064	-.032	-.071	-.006	-.120	.003
	80	.149	---	.169	---	.103	---	.062	---	.058	---	.006	---
	90	.052	.019	.060	.035	.099	.009	.042	.006	.032	.006	-.016	.006
95	0	-.432	---	.468	---	.433	---	.536	---	.042	---	-.110	---
	5	.134	---	.498	---	-.068	---	-.231	---	-.385	---	-.134	---
	10	.064	-.258	.035	-.206	-.090	-.090	-.199	.030	-.249	.077	-.458	.145
	20	-.006	-.083	-.085	-.180	-.100	-.114	-.135	-.051	-.199	-.019	-.158	.038
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.052	-.118	-.057	-.128	-.094	-.091	-.119	-.074	-.135	-.048	-.190	-.089
	50	-.045	-.123	-.057	-.109	-.071	-.087	-.087	-.068	-.103	-.064	-.146	-.064
	60	-.042	-.090	-.039	-.080	-.046	-.068	-.054	-.061	-.071	-.058	-.120	-.089
	70	-.013	---	.003	---	-.005	---	-.006	---	-.068	---	-.077	---
	80	.098	---	.040	---	.046	---	.046	---	.038	---	.005	---
	90	---	.030	---	.042	---	.042	---	.039	---	.030	---	.013

Percent semi-span	Percent chord	Angle of attack, degrees: 8, Upper surface	8, Lower surface	10, Upper surface	10, Lower surface	12, Upper surface	12, Lower surface	14, Upper surface	14, Lower surface	16, Upper surface	16, Lower surface	18, Upper surface	18, Lower surface
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	-0.885	---	-0.845	---	-1.172	---	-3.098	---	-4.584	---	-4.706	---
	10	-.573	---	-.780	---	-.850	---	-.977	---	-1.130	---	-2.130	---
	20	---	---	---	---	---	---	---	---	---	---	---	---
	30	-.389	0.166	-.462	0.246	-.591	0.289	-.609	0.347	-.764	0.354	-.835	0.439
	40	-.354	.127	-.438	.179	-.583	.284	-.571	.289	-.648	.306	-.766	.398
	50	-.332	---	-.399	---	-.542	---	-.560	---	-.549	---	-.606	---
	60	-.288	.087	-.335	.109	-.505	.145	-.485	.185	-.486	.209	-.502	.262
	70	-.209	.058	-.264	.077	-.348	.138	-.357	.138	-.358	.181	-.474	.208
	80	-.166	.032	-.211	.077	-.246	.094	-.263	.127	-.287	.148	-.338	.205
	90	-.108	.038	-.115	.077	-.159	.068	-.164	.084	-.384	.186	-.300	.138
35	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	-.806	---	-1.115	---	-1.188	---	-1.246	---	-1.186	---	-1.258	---
	10	---	.207	---	.164	---	.383	---	.345	---	.471	---	.494
	20	-.701	.192	-1.288	.168	-1.371	.298	-1.331	.347	-1.423	.390	-1.149	.416
	30	-.643	.137	-1.297	.179	-1.148	.284	-1.390	.254	-1.250	.394	-1.186	.384
	40	-.385	---	-1.189	---	-1.373	---	-1.347	---	-1.239	---	-1.148	---
	50	-.389	.077	-.784	.093	-1.328	.127	-1.266	.133	-1.297	.169	-1.129	.182
	60	-.261	.051	-.304	.073	-.882	.092	-1.468	.108	-1.077	.116	-1.061	.116
	70	-.169	.032	-.051	.078	-.422	.065	-.825	.068	-.939	.074	-.971	.068
	80	-.108	.007	.013	.080	-.130	.078	-.558	.068	-.771	.068	-.648	.038
	90	-.035	---	.045	---	-.008	---	-.305	---	-.390	---	-.119	---
55	0	-.889	---	-.825	---	-.480	---	-.649	---	-.634	---	-.616	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	.280	---	.138	---	.068	---	.356	---	.421	---	.439
	20	---	.131	---	.234	---	.261	---	.298	---	.384	---	.348
	30	---	.137	---	.173	---	.175	---	.198	---	.289	---	.281
	40	-.492	---	-.604	---	-.820	---	-.614	---	-.337	---	-.377	---
	50	-.389	---	-.646	---	-.844	---	-.680	---	-.584	---	-.584	---
	60	-.312	---	-.685	---	-.820	---	-.687	---	-.630	---	-.680	---
	70	-.285	.003	-.584	.083	-.646	-.036	-.640	-.036	-.618	-.089	-.584	-.089
	80	-.230	.032	-.530	-.039	-.680	-.081	-.617	-.100	-.577	-.087	-.541	-.087
	90	-.073	.038	-.144	-.068	-.584	-.198	-.588	-.185	-.584	-.184	-.539	-.184
75	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	-.326	---	-.389	---	-.351	---	-.340	---	-.358	---	-.388	---
	10	---	.283	---	.300	---	.340	---	.347	---	.309	---	.404
	20	---	.189	---	.179	---	.190	---	.287	---	.248	---	.294
	30	-.165	.121	-.147	.125	-.348	.127	-.340	.133	-.348	.171	-.377	.197
	40	-.138	.073	-.154	.058	-.368	.048	-.347	.073	-.382	.136	-.388	.138
	50	-.207	---	-.275	---	-.134	---	-.347	---	-.377	---	-.382	---
	60	-.209	.085	-.285	-.016	-.368	-.036	-.368	-.036	-.358	.008	-.358	.018
	70	-.166	.025	-.258	-.089	-.368	-.088	-.368	-.048	-.358	-.089	-.350	-.089
	80	-.084	---	-.288	---	-.172	---	-.331	---	-.308	---	-.361	---
	90	-.086	.029	-.214	-.066	-.290	-.133	-.365	-.135	-.319	-.126	-.383	-.126
95	0	-.883	---	-.147	---	-.131	---	-.133	---	-.806	---	-.287	---
	5	-.541	---	-.380	---	-.201	---	-.281	---	-.306	---	-.283	---
	10	-.598	.199	-.403	.303	-.289	.136	-.337	.241	-.259	.287	-.250	.294
	20	-.504	.071	-.394	.074	-.079	.108	-.331	.103	-.279	.138	-.259	.161
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.484	-.006	-.110	-.003	-.040	-.019	-.331	-.095	-.289	-.068	-.235	.004
	50	-.385	-.028	-.388	-.085	-.080	-.071	-.331	-.086	-.289	-.081	-.285	-.072
	60	-.376	-.016	-.375	-.081	-.047	-.077	-.331	-.119	-.285	-.080	-.225	-.087
	70	-.316	---	-.336	---	-.031	---	-.198	---	-.219	---	-.248	---
	80	-.382	---	-.131	---	-.182	---	-.182	---	-.190	---	-.197	---
	90	---	.004	---	-.046	---	-.083	---	-.104	---	-.116	---	-.114

NACA

TABLE VII.– CONTINUED

(b) M,0.60.

Percent semi-span	Percent chord	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface
		Angle of attack, degrees															
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.228	---	0.117	---	0.005	---	-0.159	---	-0.330	---	-0.382	---	-0.811	---	-1.454	---
	10	.143	---	.068	---	-.019	---	-.138	---	-.261	---	-.438	---	-.561	---	-.730	---
	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30	.023	-0.248	-.031	-0.173	-.081	-0.119	-.160	-0.053	-.241	0.011	-.348	0.093	-.419	0.144	-.582	0.229
	40	-.015	-.241	-.062	-.185	-.118	-.139	-.179	-.078	-.246	-.024	-.366	.045	-.389	.080	-.473	.149
	50	-.049	---	-.091	---	-.130	---	-.189	---	-.246	---	-.382	---	-.349	---	-.440	---
	60	-.059	-.216	-.098	-.169	-.135	-.135	-.177	-.098	-.289	-.057	-.389	0	-.332	.053	-.397	.061
	70	-.061	-.206	-.093	-.160	-.118	-.132	-.160	-.109	-.300	-.071	-.347	.021	-.286	.008	-.329	.058
	80	-.041	-.144	-.071	-.119	-.085	-.100	-.121	-.072	-.155	-.050	-.188	-.017	-.219	.009	-.269	.054
	90	-.022	-.088	-.040	-.063	-.049	-.050	-.078	-.040	-.098	-.028	-.116	.001	-.137	.014	-.153	.048
35	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.209	---	.078	---	-.071	---	-.274	---	-.478	---	-.698	---	-.785	---	-1.080	---
	10	---	-.386	---	-.261	---	-.138	---	-.008	---	.129	---	.223	---	.260	---	.339
	20	.039	-.290	-.032	-.217	-.122	-.129	-.202	-.041	-.288	.072	-.409	.136	-.798	.176	-1.400	.250
	30	-.002	-.258	-.070	-.219	-.129	-.131	-.195	-.080	-.248	.012	-.408	.087	-.499	.099	-1.449	.166
	40	-.038	---	-.072	---	-.140	---	-.187	---	-.214	---	-.349	---	-.431	---	-1.483	---
	50	-.047	-.213	-.089	-.181	-.131	-.145	-.170	-.101	-.188	-.028	-.271	0	-.344	.071	-.500	.078
	60	-.039	-.159	-.074	-.141	-.105	-.109	-.132	-.087	-.142	-.023	-.230	0	-.288	.008	-.405	.093
	70	-.019	-.111	-.048	-.108	-.072	-.075	-.093	-.059	-.085	-.003	-.144	.007	-.380	.009	-.380	.040
	80	.005	-.040	-.015	-.040	-.037	-.086	-.045	-.014	-.040	.048	-.088	.030	-.179	.038	-.085	.080
	90	.037	---	.023	---	.030	---	.008	---	.023	---	-.060	---	-.083	---	0	---
55	0	.030	---	.340	---	.267	---	.312	---	.628	---	.610	---	.730	---	.670	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.281	---	-.252	---	-.085	---	.078	---	.230	---	.303	---	.248	---	.314
	20	---	-.298	---	-.210	---	-.052	---	.011	---	.180	---	.188	---	.158	---	.218
	30	---	-.240	---	-.188	---	-.072	---	-.008	---	.064	---	.066	---	.091	---	.148
	40	-.010	---	-.070	---	-.179	---	-.238	---	-.310	---	-.318	---	-.378	---	-.377	---
	50	-.036	---	-.078	---	-.167	---	-.205	---	-.250	---	-.250	---	-.388	---	-.356	---
	60	-.030	---	-.054	---	-.130	---	-.161	---	-.192	---	-.185	---	-.265	---	-.342	---
	70	-.015	-.100	-.040	-.098	-.100	-.078	-.108	-.042	-.138	-.014	-.138	-.018	-.193	.008	-.130	0
	80	.015	-.032	0	-.040	-.040	-.015	-.050	0	-.075	.008	-.078	.038	-.188	.018	-.380	-.033
	90	.032	.015	.022	.030	0	.080	0	.021	-.030	.035	-.032	.024	-.076	.020	-.274	-.080
75	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.197	---	.090	---	-.030	---	-.206	---	-.469	---	-.618	---	-.588	---	-.542	---
	10	---	-.342	---	-.290	---	-.117	---	.008	---	.128	---	.280	---	.257	---	.280
	20	---	-.279	---	-.199	---	-.116	---	-.080	---	.049	---	.135	---	.160	---	.180
	30	0	-.195	-.040	-.116	-.093	-.087	-.159	-.080	-.230	.030	-.340	.088	-.410	.105	-.498	.118
	40	-.022	-.224	-.060	-.169	-.108	-.138	-.150	-.060	-.208	-.005	-.274	.032	-.340	.058	-.490	.050
	50	-.047	---	-.079	---	-.115	---	-.140	---	-.181	---	-.283	---	-.300	---	-.443	---
	60	-.030	-.143	-.047	-.114	-.070	-.093	-.096	-.052	-.130	-.038	-.166	0	-.238	0	-.340	-.010
	70	-.080	-.098	-.038	-.072	-.041	-.058	-.060	-.087	-.080	-.088	-.113	.002	-.154	.005	-.380	-.080
	80	.200	---	.135	---	.087	---	.015	---	-.002	---	-.040	---	-.078	---	-.187	---
	90	.048	.010	.048	.080	.040	.010	.045	.045	.042	.003	-.001	.042	-.055	.082	-.150	-.030
95	0	-.242	---	.222	---	.428	---	.443	---	.196	---	.080	---	-.069	---	-.240	---
	5	.155	---	.060	---	-.048	---	-.220	---	-.382	---	-.312	---	-.487	---	-.597	---
	10	.074	-.283	0	-.199	-.082	-.110	-.180	.001	-.382	.051	-.463	.160	-.478	.185	-.580	---
	20	-.008	-.202	-.060	-.167	-.103	-.125	-.160	-.071	-.210	-.030	-.349	.033	-.403	.059	-.540	.080
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.060	-.138	-.087	-.148	-.104	-.094	-.123	-.078	-.140	-.056	-.188	-.034	-.253	-.089	-.498	-.088
	50	-.052	-.108	-.077	-.098	-.080	-.078	-.100	-.064	-.108	-.055	-.149	-.040	-.232	-.034	-.402	-.044
	60	-.038	-.067	-.045	-.065	-.050	-.050	-.062	-.050	-.058	-.043	-.109	-.027	-.178	-.038	-.337	-.096
	70	-.003	---	-.035	---	-.030	---	-.080	---	-.018	---	-.085	---	-.134	---	-.280	---
	80	.185	---	.086	---	.086	---	.086	---	.048	---	.014	---	-.085	---	-.145	---
	90	---	.048	---	.043	---	.073	---	.072	---	.048	---	.088	---	.018	---	.008

(c) M,0.70.

Percent semi-span	Percent chord	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface
		Angle of attack, degrees													
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.225	---	0.149	---	-0.012	---	-0.125	---	-0.301	---	-0.509	---	-0.858	---
	10	.148	---	.090	---	-.038	---	-.127	---	-.245	---	-.401	---	-.634	---
	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30	.008	-0.239	-.017	-0.208	-.101	-0.128	-.160	-0.068	-.240	0.019	-.337	0.088	-.490	0.142
	40	-.020	-.239	-.059	-.226	-.132	-.141	-.180	-.086	-.250	-.080	-.330	.038	-.488	.186
	50	-.031	---	-.082	---	-.153	---	-.182	---	-.277	---	-.327	---	-.409	---
	60	-.064	-.220	-.100	-.201	-.160	-.149	-.198	-.109	-.245	-.035	-.302	-.008	-.367	.048
	70	-.067	-.205	-.099	-.193	-.143	-.150	-.272	-.112	-.213	-.069	-.261	-.089	-.318	.012
	80	-.045	-.151	-.075	-.142	-.112	-.111	-.130	-.087	-.166	-.051	-.199	-.019	-.238	.012
	90	-.080	-.082	-.049	-.078	-.062	-.060	-.075	-.042	-.092	-.080	-.120	.002	-.149	.008
35	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.183	---	.109	---	-.099	---	-.263	---	-.508	---	-.678	---	-.771	---
	10	---	-.380	---	-.303	---	-.136	---	-.088	---	.108	---	.185	---	.299
	20	.021	-.310	-.018	-.242	-.130	-.142	-.205	-.059	-.389	.032	-.464	.188	-.608	.162
	30	-.030	-.279	-.058	-.239	-.149	-.166	-.200	-.092	-.381	-.008	-.421	.038	-.584	.073
	40	-.060	---	-.076	---	-.155	---	-.196	---	-.256	---	-.356	---	-.527	---
	50	-.072	-.209	-.080	-.204	-.147	-.158	-.178	-.113	-.222	-.078	-.266	-.089	-.445	.013
	60	-.061	-.188	-.071	-.159	-.119	-.128	-.141	-.091	-.170	-.062	-.221	.010	-.353	-.001
	70	-.041	-.125	-.050	-.102	-.082	-.088	-.104	-.065	-.126	-.048	-.160	-.080	-.268	0
	80	-.006	-.059	-.013	-.048	-.032	-.008	-.044	-.014	-.066	-.001	-.102	.047	-.198	.088
	90	.016	---	.039	---	.016	---	.005	---	-.003	---	-.039	---	-.110	---
55	0	.090	---	.290	---	.168	---	.343	---	-.147	---	-.411	---	-.631	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.200	---	-.330	---	-.170	---	-.030	---	.089	---	.159	---	.243
	20	---	-.273	---	-.244	---	-.138	---	-.053	---	.070	---	.119	---	.130
	30	---	-.232	---	-.210	---	-.139	---	-.075	---	.009	---	.068	---	.099
	40	-.030	---	-.060	---	-.136	---	-.178	---	-.229	---	-.300	---	-.387	---
	50	-.052	---	-.077	---	-.135	---	-.160	---	-.190	---	-.218	---	-.327	---
	60	-.040	---	-.056	---	-.109	---	-.127	---	-.139	---	-.180	---	-.272	---
	70	-.020	-.098	-.040	-.103	-.072	-.067	-.099	-.097	-.050	-.082	-.120	.001	-.200	-.008
	80	.010	-.033	.005	-.040	-.023	-.030	-.038	-.016	-.022	.004	-.054	.018	-.170	.018
	90	.037	.022	.035	.010	.020	.020	.015	.020	.009	.040	0	.047	-.087	0
75	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.171	---	.119	---	-.072	---	-.280	---	-.421	---	-.588	---	-.625	---
	10	---	-.383	---	-.270	---	-.118	---	-.002	---	.100	---	.191	---	.248
	20	---	-.267	---	-.208	---	-.130	---	-.044	---	.047	---	.100	---	.128
	30	-.002	-.175	-.031	-.160	-.119	-.102	-.178	-.043	-.240	.080	-.339	.063	-.445	.088
	40	-.032	-.202	-.054	-.197	-.130	-.143	-.168	-.090	-.216	-.033	-.307	.008	-.361	.030
	50	-.044	---	-.064	---	-.138	---	-.157	---	-.184	---	-.230	---	-.333	---
	60	-.030	-.133	-.048	-.125	-.098	-.107	-.118	-.060	-.135	-.048	-.173	-.029	-.273	-.018
	70	-.015	-.075	-.030	-.063	-.063	-.049	-.074	-.080	-.090	-.046	-.118	-.016	-.217	-.087
	80	.050	---	.080	---	-.004	---	-.012	---	-.088	---	-.038	---	-.096	---
	90	.050	.025	.047	.030	.089	.011	.030	.001	.039	.086	-.088	.020	-.082	-.001
95	0	-.118	---	.122	---	.450	---	.164	---	.204	---	.463	---	-.069	---
	5	.127	---	.080	---	-.086	---	-.287	---	-.448	---	-.260	---	-.587	---
	10	.057	-.282	.009	-.258	-.180	-.138	-.197	-.037	-.360	.018	-.499	.072	-.500	.122
	20	-.040	-.210	-.048	-.220	-.140	-.238	-.173	-.098	-.380	-.008	-.390	-.058	-.440	-.012
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.080	-.140	-.096	-.148	-.188	-.186	-.136	-.183	-.198	-.130	-.042	-.130	-.302	-.097
	50	-.081	-.118	-.090	-.117	-.107	-.202	-.212	-.090	-.188	-.131	-.202	-.131	-.255	-.103
	60	-.055	-.075	-.067	-.088	-.080	-.088	-.076	-.097	-.185	-.128	-.160	-.125	-.228	-.109
	70	-.030	---	-.018	---	-.027	---	-.065	---	-.080	---	-.128	---	-.189	---
	80	.078	---	.039	---	.088	---	.030	---	-.080	---	-.046	---	-.098	---
	90	---	.055	---	.050	---	.056	---	.049	---	-.008	---	-.036	---	-.048

NACA

TABLE VII.- CONTINUED

(d) M,0.75.

Per cent semispan	Per cent chord	Angle of attack, degrees													
		-4		-2		0		2		4		6		8	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.346	---	0.132	---	-0.003	---	-0.149	---	-0.381	---	-0.479	---	-0.609	---
	10	.160	---	.077	---	-.031	---	-.139	---	[illegible]	---	-.361	---	-.581	---
	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30	.031	-0.349	[illegible]	-0.158	-.096	-0.180	-.167	-0.039	[illegible]	[illegible]	-.381	0.091	-.437	0.168
	40	-.013	[illegible]	-.065	-.200	-.130	-.146	-.191	-.072	[illegible]	-.018	-.130	.045	-.418	.112
	50	-.049	---	-.050	---	-.138	---	-.208	---	-.276	---	-.380	---	-.396	---
	60	[illegible]	-.231	[illegible]	[illegible]	-.157	-.150	[illegible]	-.160	[illegible]	-.060	[illegible]	[illegible]	-.395	.042
	70	-.067	-.225	[illegible]	-.181	-.147	-.158	[illegible]	-.107	-.236	-.071	[illegible]	[illegible]	-.304	-.011
	80	-.049	-.168	-.076	-.141	-.114	-.119	[illegible]	[illegible]	-.179	[illegible]	-.199	-.018	-.230	[illegible]
	90	[illegible]	[illegible]	-.052	[illegible]	-.067	[illegible]	[illegible]	-.076	-.166	[illegible]	-.172	.002	-.159	.078
35	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.298	---	.076	---	-.009	---	-.291	---	-.317	---	-.700	---	-.736	---
	10	---	-.149	---	-.209	---	-.132	---	.006	---	.118	---	.131	---	[illegible]
	20	.036	-.382	-.036	-.246	-.128	-.148	-.029	-.039	-.341	.030	-.481	.108	-.611	.166
	30	-.015	-.250	-.071	-.239	-.142	-.163	-.208	-.073	[illegible]	-.087	-.407	.041	-.539	.082
	40	[illegible]	---	-.096	---	-.157	---	-.201	---	-.368	---	-.391	---	-.422	---
	50	-.061	-.238	-.100	-.204	-.139	-.159	-.181	-.180	[illegible]	-.061	[illegible]	-.017	-.408	.008
	60	[illegible]	-.176	-.082	-.180	-.106	-.184	-.138	-.076	-.176	-.005	[illegible]	-.019	-.388	.005
	70	-.038	-.116	-.068	-.119	-.070	-.088	-.095	-.050	-.125	-.033	-.130	[illegible]	-.290	.009
	80	-.008	-.094	-.018	-.042	-.067	-.030	-.048	-.018	-.085	[illegible]	-.080	.005	-.170	.009
	90	.030	---	.015	---	.009	---	.008	---	.009	---	-.018	---	-.166	---
55	0	.138	---	.302	---	.480	---	.308	---	-.200	---	-.398	---	-.632	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.300	---	-.200	---	-.150	---	-.012	---	.042	---	.186	---	.182
	20	---	-.301	---	-.288	---	-.144	---	-.049	---	-.008	---	.090	---	.100
	30	---	-.258	---	-.200	---	-.140	---	-.069	---	-.044	---	-.001	---	.064
	40	-.030	---	-.071	---	-.138	---	-.130	---	[illegible]	---	-.351	---	-.462	---
	50	-.050	---	-.089	---	-.137	---	-.178	---	[illegible]	---	-.350	---	-.385	---
	60	-.035	---	-.070	---	-.105	---	-.160	---	[illegible]	---	-.317	---	-.330	---
	70	-.008	-.108	-.046	-.099	-.078	-.088	-.089	-.060	-.138	-.080	-.178	-.062	[illegible]	-.066
	80	.017	-.032	-.008	-.030	-.080	-.018	-.039	-.009	-.081	-.032	-.110	-.032	-.184	-.048
	90	.037	.009	.009	.005	.012	.004	.017	.036	-.037	-.018	-.030	-.012	-.121	-.009
75	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.187	---	.079	---	-.078	---	-.049	---	-.163	---	-.409	---	-.613	---
	10	---	-.137	---	-.047	---	-.116	---	.004	---	.124	---	.210	---	.234
	20	---	-.180	---	-.051	---	-.120	---	-.029	---	.033	---	.189	---	.144
	30	[illegible]	-.196	-.060	-.158	-.123	-.098	-.187	-.084	-.267	.000	-.308	.077	-.430	.090
	40	-.008	[illegible]	-.078	-.104	-.138	-.140	-.178	-.078	-.238	-.030	-.270	.007	-.309	.025
	50	-.044	---	-.088	---	-.180	---	-.154	---	-.281	---	-.280	---	-.302	---
	60	-.067	-.138	-.060	-.128	-.098	-.113	-.100	-.060	-.149	-.046	-.143	-.008	-.349	-.014
	70	-.017	-.080	-.048	-.080	-.068	-.078	-.030	-.040	-.093	-.008	-.168	-.020	-.194	-.012
	80	.080	---	.008	---	[illegible]	---	-.009	---	-.082	---	-.089	---	-.056	---
	90	.056	.008	.033	.013	.031	.035	.037	.040	.083	.009	.001	-.006	-.079	.002
95	0	-.043	---	.273	---	.477	---	.467	---	.258	---	.169	---	.042	---
	5	.168	---	.068	---	-.088	---	-.268	---	-.278	---	-.367	---	-.322	---
	10	.076	-.299	-.402	-.218	-.104	-.108	-.258	-.008	-.345	.050	-.478	.133	-.482	.171
	20	-.081	-.381	-.068	-.390	-.111	-.139	-.180	-.080	-.344	-.088	-.348	.013	-.390	.036
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.061	-.141	-.090	-.130	-.120	-.118	-.130	-.099	-.170	-.078	-.180	-.082	-.251	-.078
	50	-.054	-.116	-.080	-.116	-.087	-.100	-.164	-.080	-.132	-.078	-.143	-.068	-.207	-.085
	60	-.037	-.078	-.070	-.072	-.070	-.072	-.060	-.075	-.077	-.089	-.090	-.080	-.158	-.078
	70	-.007	---	-.008	---	[illegible]	---	-.012	---	-.038	---	-.050	---	-.131	---
	80	.131	---	.073	---	.094	---	.048	---	.039	---	.008	---	---	---
	90	---	.078	---	.065	---	.068	---	.068	---	.051	---	.042	---	.015

(e) M,0.80.

Per cent semispan	Per cent chord	Angle of attack, degrees													
		-4		-2		0		2		4		6		7	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.221	---	0.131	---	0.082	---	-0.138	---	-0.282	---	-0.459	---	-0.607	---
	10	.146	---	.098	---	-.008	---	-.121	---	-.282	---	-.380	---	-.472	---
	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30	.028	-0.205	-.012	-0.165	-.065	-0.108	-.160	-0.041	-.240	0.082	-.340	0.108	-.417	0.142
	40	-.088	-.229	-.058	-.212	-.125	-.148	-.195	-.080	-.260	-.038	-.349	.058	-.416	.008
	50	-.062	---	-.088	---	-.150	---	-.228	---	-.279	---	-.355	---	-.412	---
	60	-.072	-.231	-.106	-.200	-.158	-.151	-.216	-.118	-.274	-.058	-.338	-.001	-.373	.023
	70	-.062	-.201	-.107	-.217	-.146	-.157	-.208	-.108	-.259	-.108	-.298	-.008	-.308	-.009
	80	-.057	-.168	-.074	-.136	-.115	-.118	-.159	-.068	-.198	-.071	-.228	-.015	-.239	[illegible]
	90	-.031	-.050	-.061	-.050	-.061	-.067	-.090	-.061	-.117	-.031	-.128	.012	-.138	.009
35	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.139	---	.086	---	-.078	---	-.279	---	-.497	---	-.768	---	-.731	---
	10	---	-.342	---	-.304	---	-.130	---	-.085	---	.085	---	.130	---	.238
	20	.002	-.310	-.042	-.259	-.126	-.143	-.219	-.078	-.324	.029	-.509	.105	-.613	.170
	30	-.038	-.281	-.080	-.240	-.142	-.162	-.217	-.089	-.380	-.038	-.442	.048	-.394	.071
	40	-.071	---	-.109	---	-.153	---	-.230	---	-.372	---	-.368	---	-.432	---
	50	-.063	-.138	-.108	-.210	-.141	-.160	-.180	-.109	-.234	-.080	-.298	-.019	-.358	.007
	60	-.071	-.132	-.082	-.160	-.105	-.115	-.140	-.085	-.181	-.071	-.281	-.009	-.298	[illegible]
	70	-.049	-.121	-.088	-.118	-.049	-.080	-.085	-.058	-.138	-.036	-.196	-.007	-.178	.011
	80	-.001	-.099	-.082	-.042	-.017	-.018	-.033	-.008	-.098	[illegible]	-.089	.008	-.111	.032
	90	.004	---	.017	---	.087	---	.008	---	.001	---	-.082	---	-.066	---
55	0	.089	---	.348	---	.497	---	.340	---	.013	---	-.497	---	-.458	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.018	---	-.088	---	-.150	---	-.083	---	.040	---	.188	---	.211
	20	---	-.080	---	-.134	---	-.138	---	-.094	---	.039	---	.108	---	.123
	30	---	-.038	---	-.202	---	-.108	---	-.077	---	-.005	---	.045	---	.068
	40	-.092	---	-.078	---	-.138	---	-.189	---	-.247	---	-.308	---	-.308	---
	50	-.078	---	-.068	---	-.128	---	-.138	---	-.303	---	-.290	---	-.302	---
	60	-.052	---	-.048	---	-.090	---	-.119	---	-.160	---	-.190	---	-.270	---
	70	-.037	-.102	-.038	-.105	-.060	-.071	-.058	-.038	-.102	-.038	-.138	-.018	-.180	-.082
	80	.018	-.030	-.002	-.034	-.008	.000	-.030	-.009	-.040	-.008	-.066	.008	-.118	.012
	90	.033	.018	.038	.012	.030	.044	.018	.030	.015	.005	-.010	.038	-.063	.016
75	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.138	---	.078	---	-.080	---	-.048	---	-.318	---	-.469	---	-.438	---
	10	---	-.208	---	-.259	---	-.118	---	.030	---	.084	---	.182	---	.208
	20	---	-.251	---	-.237	---	-.130	---	-.035	---	.029	---	.092	---	.138
	30	-.036	-.187	-.063	-.194	-.138	-.112	-.198	-.050	-.267	-.088	-.338	.030	-.412	.060
	40	-.092	-.219	-.088	-.212	-.134	-.149	-.180	-.068	-.284	-.068	-.299	-.006	-.337	.030
	50	-.070	---	-.108	---	-.135	---	-.168	---	-.278	---	-.240	---	-.282	---
	60	-.048	-.132	-.068	-.141	-.096	-.118	-.120	-.060	-.138	-.040	-.179	-.038	-.280	-.012
	70	-.013	-.073	-.048	-.096	-.068	-.078	-.077	-.047	-.300	-.043	-.120	-.088	-.138	-.021
	80	.009	---	-.005	---	-.004	---	-.014	---	-.030	---	-.058	---	-.057	---
	90	.098	.038	.050	.013	.077	.080	.088	.038	.019	.012	-.008	.018	-.087	.090
95	0	.097	---	.160	---	.182	---	.160	---	.332	---	.188	---	.187	---
	5	.057	---	.099	---	-.080	---	-.248	---	-.342	---	-.388	---	-.382	---
	10	.034	-.080	-.003	-.230	-.110	-.103	-.218	-.013	-.302	.057	-.380	.137	-.488	.162
	20	-.058	-.136	-.098	-.158	-.132	-.140	-.182	-.089	-.134	-.058	-.308	[illegible]	-.412	.030
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.082	-.138	-.097	-.130	-.110	-.115	-.138	-.097	-.158	-.090	-.158	-.069	-.240	-.060
	50	-.069	-.180	-.088	-.107	-.092	-.098	-.166	-.078	-.127	-.080	-.140	-.069	-.199	-.078
	60	-.050	-.068	-.048	-.068	-.055	-.052	-.060	-.068	-.070	-.078	-.090	-.055	-.111	-.060
	70	-.009	---	.001	---	-.009	---	-.018	---	-.020	---	-.058	---	-.113	---
	80	.095	---	.090	---	.048	---	.050	---	.034	---	.018	---	-.027	---
	90	---	.088	---	.080	---	.079	---	.069	---	.098	---	.048	---	.048

NACA

TABLE VII.– CONTINUED

(f) M,0.82.

Percent semi-span	Percent chord	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface
		Angle of attack, degrees													
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.828	---	0.147	---	0.010	---	-0.168	---	-0.278	---	-0.439	---	-0.594	---
	10	.145	---	.069	---	-.012	---	-.069	---	-.218	---	-.371	---	-.402	---
	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30	.086	-0.281	-.016	-0.185	-.089	-0.108	-.159	-0.048	-.231	0.038	-.341	0.118	-.416	0.139
	40	-.018	-.238	-.062	-.204	-.111	-.132	-.158	-.068	-.232	-.026	-.359	.029	-.421	.081
	50	-.057	---	-.095	---	-.166	---	-.209	---	-.278	---	-.371	---	-.409	---
	60	-.071	-.238	-.105	-.219	-.167	-.166	-.200	-.114	-.268	-.098	-.311	[illegible]	-.368	.082
	70	-.084	-.201	-.114	-.200	-.172	-.168	-.205	-.121	-.264	-.078	-.326	-.027	-.352	-.089
	80	-.052	-.171	-.080	-.161	-.126	-.124	-.145	-.095	-.181	-.082	-.288	-.011	-.285	.082
	90	-.048	-.084	-.040	-.075	-.075	-.098	-.080	-.049	-.109	-.049	-.139	.089	-.138	.085
35	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.151	---	.070	---	-.166	---	-.298	---	-.438	---	-.738	---	-.732	---
	10	---	-.180	---	-.298	---	-.148	---	-.089	---	.089	---	.109	---	.215
	20	.002	-.238	-.041	-.256	-.146	-.157	-.209	-.060	-.348	.089	-.368	.180	-.438	.130
	30	-.011	-.262	-.079	-.270	-.165	-.180	-.210	-.098	-.321	-.089	-.346	.089	-.432	.081
	40	-.048	---	-.112	---	-.181	---	-.209	---	-.278	---	-.370	---	-.442	---
	50	-.080	-.218	-.119	-.210	-.160	-.179	-.170	-.114	-.235	-.071	-.301	-.089	-.376	-.018
	60	-.080	-.158	-.085	-.143	-.138	-.137	-.139	-.092	-.177	-.056	-.289	-.138	-.373	-.014
	70	-.041	-.108	-.058	-.166	-.080	-.091	-.120	-.078	-.131	-.036	-.163	-.087	-.179	-.066
	80	.008	-.030	-.047	-.041	-.030	-.088	-.059	-.065	-.068	.009	-.089	.011	-.158	.089
	90	.036	---	.016	---	.041	---	.012	---	.012	---	-.082	---	-.081	---
55	0	.233	---	.408	---	.165	---	.370	---	.088	---	-.278	---	-.391	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.188	---	-.251	---	-.168	---	-.049	---	.078	---	.164	---	.084
	20	---	-.261	---	-.282	---	-.147	---	-.068	---	.084	---	.099	---	.139
	30	---	-.280	---	-.215	---	-.168	---	-.080	---	-.088	---	.033	---	.039
	40	-.078	---	-.079	---	-.158	---	-.198	---	-.243	---	-.338	---	-.380	---
	50	-.064	---	-.090	---	-.141	---	-.170	---	-.238	---	-.258	---	-.378	---
	60	-.049	---	-.078	---	-.138	---	-.138	---	-.168	---	-.150	---	-.238	---
	70	-.085	-.058	-.040	-.099	-.081	-.081	-.081	-.040	-.108	-.046	-.130	-.085	-.188	-.086
	80	.015	-.033	.001	-.085	-.085	-.089	-.085	-.004	-.079	[illegible]	-.072	.011	-.307	.039
	90	.036	.083	.088	.088	.018	.017	.025	.019	.018	.084	-.088	.084	-.468	.017
75	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.128	---	.079	---	-.071	---	-.198	---	-.414	---	-.648	---	-.481	---
	10	---	-.270	---	-.245	---	-.108	---	-.081	---	.114	---	.184	---	.212
	20	---	-.258	---	-.218	---	-.117	---	-.043	---	.082	---	.130	---	.188
	30	-.038	-.198	-.098	-.183	-.137	-.129	-.182	-.073	-.278	-.017	-.333	.084	-.419	.056
	40	-.031	-.198	-.080	-.198	-.154	-.140	-.179	-.091	-.268	-.030	-.288	.085	-.318	.048
	50	-.060	---	-.085	---	-.186	---	-.156	---	-.195	---	-.238	---	-.263	---
	60	-.048	-.127	-.068	-.138	-.078	-.110	-.110	-.074	-.138	-.040	-.158	-.083	-.192	-.083
	70	-.038	-.075	-.040	-.080	-.068	-.066	-.069	-.043	-.080	-.088	-.108	-.018	-.135	-.088
	80	.004	---	-.008	---	-.009	---	-.018	---	-.021	---	-.078	---	-.088	---
	90	.051	.030	.048	.028	.018	.087	.058	.028	.017	.018	.007	.060	-.088	.016
95	0	.130	---	.310	---	.465	---	.499	---	.134	---	.088	---	.145	---
	5	.010	---	.074	---	-.080	---	-.082	---	-.187	---	-.084	---	-.038	---
	10	.025	-.258	.004	-.288	-.115	-.104	-.188	-.088	-.138	---	-.140	.145	-.168	.138
	20	-.058	-.190	-.080	-.150	-.140	-.146	-.179	-.096	-.289	---	-.150	.010	-.188	.018
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.081	-.180	-.097	-.188	-.116	-.120	-.119	-.100	-.152	---	-.180	-.071	-.218	-.068
	50	-.072	-.095	-.090	-.101	-.108	-.086	-.099	-.080	-.118	---	-.138	-.088	-.167	-.078
	60	-.036	-.050	-.048	-.068	-.058	-.058	-.065	-.048	-.096	---	-.080	-.045	-.138	-.056
	70	0	---	.010	---	.004	---	0	---	-.088	---	-.040	---	-.068	---
	80	.018	---	.047	---	.049	---	.048	---	.082	---	.036	---	0	---
	90	---	.086	---	.085	---	.067	---	.060	---	---	---	.070	---	.088

(g) M,0.84.

Percent semi-span	Percent chord	-4 Upper surface	-4 Lower surface	-2 Upper surface	-2 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface	6 Upper surface	6 Upper surface
		Angle of attack, degrees											
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.188	---	0.146	---	0.017	---	-0.101	---	-0.262	---	-0.438	---
	10	.138	---	.080	---	-.013	---	-.108	---	-.210	---	-.304	---
	20	---	---	---	---	---	---	---	---	---	---	---	---
	30	.019	-0.281	-.036	-0.138	-.089	-0.105	-.145	-0.060	-.238	0.087	-.338	0.180
	40	-.082	-.239	-.079	-.280	-.133	-.138	-.200	-.098	-.268	-.082	-.358	.046
	50	-.073	---	-.111	---	-.155	---	-.286	---	-.277	---	-.328	---
	60	-.084	-.250	-.121	-.238	-.154	-.168	-.225	-.187	-.277	-.049	-.358	-.018
	70	-.100	-.230	-.138	-.280	-.167	-.180	-.224	-.139	-.272	-.068	-.344	-.046
	80	-.061	-.177	-.100	-.195	-.105	-.138	-.165	-.138	-.197	-.063	-.248	-.068
	90	-.030	-.094	-.060	-.091	-.069	-.077	-.094	-.080	-.118	-.089	-.134	-.061
35	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.150	---	.078	---	-.108	---	-.278	---	-.431	---	-.588	---
	10	---	-.360	---	-.380	---	-.135	---	-.068	---	.082	---	.178
	20	0	-.300	-.047	-.262	-.145	-.150	-.218	-.038	-.130	.089	-.315	.088
	30	-.035	-.265	-.082	-.258	-.148	-.173	-.210	-.102	-.364	-.068	-.347	.053
	40	-.078	---	-.118	---	-.168	---	-.210	---	-.279	---	-.324	---
	50	-.078	-.220	-.112	-.211	-.160	-.169	-.190	-.108	-.230	-.078	-.300	-.039
	60	-.059	-.160	-.086	-.173	-.117	-.138	-.150	-.098	-.174	-.051	-.212	-.068
	70	-.035	-.100	-.068	-.207	-.078	-.078	-.100	-.058	-.118	-.068	-.138	-.028
	80	0	-.068	-.080	-.065	-.080	-.030	-.088	0	-.063	.020	-.073	.088
	90	.030	---	.030	---	.030	---	.018	---	.018	---	-.013	---
55	0	.068	---	.380	---	.495	---	.380	---	.038	---	-.239	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.196	---	-.278	---	-.140	---	-.049	---	.067	---	.168
	20	---	-.272	---	-.250	---	-.187	---	-.068	---	.014	---	.090
	30	---	-.250	---	-.230	---	-.140	---	-.089	---	-.062	---	.038
	40	-.055	---	-.092	---	-.130	---	-.185	---	-.250	---	-.311	---
	50	-.062	---	-.108	---	-.138	---	-.168	---	-.288	---	-.250	---
	60	-.015	---	-.084	---	-.099	---	-.130	---	-.265	---	-.308	---
	70	-.040	-.088	-.046	-.114	-.060	-.072	-.098	-.068	-.233	-.041	-.349	-.046
	80	.009	-.085	-.010	-.042	-.004	-.012	-.088	-.065	-.142	-.085	-.248	.013
	90	.040	.080	.015	.015	.030	.038	.088	.041	.010	-.038	-.013	.041
75	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.128	---	.070	---	-.080	---	-.210	---	-.408	---	-.488	---
	10	---	-.276	---	-.240	---	-.098	---	0	---	.112	---	.184
	20	---	-.242	---	-.288	---	-.111	---	-.205	---	.048	---	.130
	30	-.035	-.213	-.080	-.288	-.130	-.138	-.175	-.268	-.268	-.087	-.348	.081
	40	-.050	-.200	-.080	-.197	-.134	-.134	-.168	-.268	-.288	-.074	-.380	0
	50	-.073	---	-.084	---	-.131	---	-.157	---	-.197	---	-.288	---
	60	-.047	-.130	-.068	-.137	-.090	-.056	-.168	-.028	-.175	-.048	-.148	-.085
	70	-.003	-.073	-.046	-.080	-.060	-.068	-.045	-.048	-.079	-.088	-.098	-.012
	80	.006	---	.045	---	-.005	---	-.067	---	-.013	---	-.038	---
	90	.045	.088	.047	.088	.045	.088	.048	.036	.038	.040	.010	.088
95	0	.138	---	.338	---	.498	---	.497	---	.397	---	.086	---
	5	.099	---	.067	---	-.090	---	-.088	---	-.438	---	-.390	---
	10	.037	-.265	-.018	-.247	-.114	-.107	-.198	-.081	-.347	.048	-.398	.130
	20	-.053	-.283	-.062	-.218	-.130	-.148	-.180	-.105	-.348	-.089	-.343	-.028
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.098	-.132	-.095	-.140	-.109	-.111	-.188	-.108	-.138	-.089	-.178	-.065
	50	-.068	-.110	-.075	-.110	-.090	-.090	-.100	-.088	-.117	-.071	-.138	-.078
	60	-.022	-.062	-.040	-.075	-.040	-.060	-.069	-.068	-.085	-.078	-.088	-.085
	70	.009	---	.005	---	.038	---	.003	---	-.013	---	-.037	---
	80	.062	---	.035	---	.058	---	.058	---	.038	---	.038	---
	90	---	.080	---	.088	---	.084	---	.077	---	.065	---	.084

TABLE VII.– CONTINUED

(h) M,0.86.

Percent semispan	Percent chord	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.238	---	0.162	---	0.021	---	-0.090	---	-0.255	---	-0.412	---
	10	.150	---	.100	---	-.022	---	-.051	---	-.306	---	-.349	---
	20	---	---	---	---	---	---	---	---	---	---	---	---
	30	.001	-0.234	-.012	-0.131	-.091	-0.111	-.172	-0.060	-.334	0.008	-.334	0.108
	40	-.066	-.249	-.061	-.279	-.130	-.141	-.130	-.054	-.305	-.019	-.349	.052
	50	-.089	---	-.085	---	-.166	---	-.226	---	-.292	---	-.368	---
	60	-.081	-.278	-.111	-.241	-.170	-.173	-.228	-.123	-.281	-.068	-.350	-.069
	70	-.101	-.256	-.138	-.208	-.191	-.150	-.218	-.139	-.294	-.081	-.309	-.030
	80	-.078	-.195	-.094	-.191	-.127	-.145	-.178	-.124	-.216	-.078	-.254	-.035
	90	-.057	-.166	-.056	-.099	-.069	-.049	-.029	-.055	-.118	-.020	-.139	.008
35	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.158	---	.068	---	-.107	---	-.264	---	-.564	---	-1.036	---
	10	---	-.357	---	-.383	---	-.160	---	-.048	---	.075	---	.180
	20	-.028	-.138	-.028	-.288	-.160	-.170	-.239	-.068	-.338	.009	-.330	.090
	30	-.048	-.300	-.080	-.372	-.172	-.192	-.273	-.112	-.333	-.049	-.450	.059
	40	-.080	---	-.130	---	-.187	---	-.283	---	-.308	---	-.328	---
	50	-.065	-.231	-.110	-.288	-.160	-.175	-.193	-.130	-.248	-.075	-.272	-.038
	60	-.078	-.178	-.065	-.138	-.128	-.132	-.150	-.106	-.188	-.045	-.209	-.009
	70	-.040	-.120	-.068	-.120	-.097	-.093	-.102	-.068	-.131	-.009	-.131	-.028
	80	-.028	-.047	-.010	-.047	-.035	-.045	-.030	-.012	-.048	-.010	-.062	-.015
	90	.038	---	.018	---	.004	---	.008	---	.005	---	-.008	---
55	0	.263	---	.387	---	.184	---	.395	---	.079	---	-.430	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.233	---	-.380	---	-.148	---	-.070	---	.060	---	.178
	20	---	-.268	---	-.379	---	-.148	---	-.064	---	.008	---	.096
	30	---	-.247	---	-.230	---	-.158	---	-.087	---	-.008	---	.040
	40	-.058	---	-.090	---	-.118	---	-.186	---	-.348	---	-.211	---
	50	-.074	---	-.108	---	-.140	---	-.167	---	-.288	---	-.229	---
	60	-.056	---	-.080	---	-.109	---	-.125	---	-.151	---	-.164	---
	70	-.040	-.098	-.060	-.119	-.060	-.060	-.102	-.068	-.115	-.038	-.139	-.118
	80	.008	-.020	-.049	-.038	-.001	-.029	-.071	.008	-.057	.010	-.036	.021
	90	.038	.025	.021	.011	.029	.027	.010	.042	.002	.038	.012	.042
75	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.129	---	.083	---	-.048	---	-.130	---	-.412	---	-.136	---
	10	---	-.282	---	-.238	---	-.113	---	0	---	.100	---	.199
	20	---	-.249	---	-.217	---	-.128	---	-.029	---	.043	---	.128
	30	-.007	-.305	-.085	-.215	-.122	-.148	-.148	-.052	-.279	-.042	-.338	.080
	40	-.056	-.305	-.080	-.207	-.138	-.147	-.177	-.098	-.238	-.048	-.278	.012
	50	-.072	---	-.092	---	-.140	---	-.160	---	-.205	---	-.218	---
	60	-.045	-.112	-.040	-.140	-.112	-.120	-.126	-.072	-.172	-.054	-.157	-.011
	70	-.008	-.038	-.038	-.060	-.066	-.078	-.068	-.047	-.098	-.038	-.090	0
	80	.002	---	.008	---	-.001	---	-.009	---	-.080	---	-.026	---
	90	.007	.035	.040	.086	.039	.040	.042	.042	.074	.085	.087	.048
95	0	.150	---	.110	---	.098	---	.494	---	.348	---	.823	---
	5	.101	---	.072	---	-.068	---	-.248	---	-.430	---	-.489	---
	10	.038	-.280	-.008	-.274	-.118	-.148	-.217	-.085	-.347	.062	-.384	.130
	20	-.060	-.284	-.082	-.219	-.150	-.168	-.280	-.112	-.234	-.068	-.340	-.013
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.085	-.130	-.109	-.140	-.111	-.118	-.138	-.103	-.159	-.080	-.178	-.080
	50	-.080	-.108	-.080	-.108	-.085	-.098	-.122	-.087	-.118	-.079	-.137	-.075
	60	-.040	-.060	-.057	-.067	-.048	-.047	-.060	-.047	-.056	-.040	-.069	-.048
	70	.008	---	.008	---	.006	---	-.007	---	-.014	---	-.038	---
	80	.054	---	.055	---	.040	---	.052	---	.048	---	.038	---
	90	---	.082	---	.080	---	.088	---	.080	---	.080	---	.043

(i) M,0.88.

Percent semispan	Percent chord	Angle of attack, degrees: -4, Upper surface	-4, Lower surface	-2, Upper surface	-2, Lower surface	0, Upper surface	0, Lower surface	2, Upper surface	2, Lower surface	4, Upper surface	4, Lower surface	6, Upper surface	6, Lower surface
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.180	---	0.148	---	0.030	---	-0.065	---	-0.245	---	-0.412	---
	10	.120	---	.106	---	-.002	---	-.065	---	-.307	---	-.343	---
	20	---	---	---	---	---	---	---	---	---	---	---	---
	30	.001	-0.209	-.009	-0.198	-.079	-0.108	-.144	-0.033	-.238	0.004	-.344	0.112
	40	-.042	-.289	-.089	-.218	-.130	-.147	-.188	-.074	-.268	-.030	-.348	.097
	50	-.061	---	-.098	---	-.148	---	-.218	---	-.300	---	-.377	---
	60	-.102	-.085	-.118	-.245	-.169	-.176	-.219	-.110	-.330	-.072	-.380	0
	70	-.114	-.274	-.121	-.244	-.171	-.180	-.220	-.182	-.309	-.092	-.413	-.030
	80	-.083	-.209	-.095	-.190	-.140	-.145	-.160	-.084	-.237	-.076	-.357	-.081
	90	-.049	-.107	-.060	-.096	-.076	-.079	-.094	-.039	-.133	-.041	-.167	.004
35	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.090	---	.080	---	-.008	---	-.248	---	-.576	---	-1.093	---
	10	---	-.389	---	-.132	---	-.150	---	-.008	---	.083	---	.185
	20	-.048	-.130	-.037	-.256	-.148	-.168	-.230	-.076	-.340	.080	-.520	.180
	30	-.075	-.298	-.098	-.288	-.165	-.188	-.230	-.098	-.335	-.038	-.497	.032
	40	-.138	---	-.103	---	-.178	---	-.230	---	-.308	---	-.478	---
	50	-.120	-.240	-.118	-.288	-.168	-.175	-.190	-.110	-.240	-.077	-.306	-.048
	60	-.088	-.107	-.078	-.160	-.120	-.128	-.144	-.088	-.187	-.065	-.150	-.087
	70	-.064	-.180	-.058	-.108	-.060	-.080	-.050	-.045	-.124	-.030	-.119	-.013
	80	-.034	-.049	-.006	-.042	-.040	-.088	-.088	.013	-.049	.080	-.087	.080
	90	.082	---	.030	---	.082	---	.038	---	.080	---	.009	---
55	0	.326	---	.394	---	.168	---	.360	---	.094	---	-.230	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.178	---	-.280	---	-.160	---	-.085	---	.078	---	.130
	20	---	-.268	---	-.259	---	-.140	---	-.057	---	.040	---	.094
	30	---	-.230	---	-.238	---	-.150	---	-.080	---	-.009	---	.040
	40	-.090	---	-.098	---	-.148	---	-.190	---	-.240	---	-.257	---
	50	-.090	---	-.098	---	-.130	---	-.170	---	-.213	---	-.228	---
	60	-.060	---	-.075	---	-.108	---	-.128	---	-.168	---	-.168	---
	70	-.045	-.093	-.086	-.105	-.078	-.080	-.080	-.046	-.128	-.047	-.113	-.082
	80	.005	-.018	-.008	-.030	-.018	-.014	-.084	-.021	-.034	.007	-.048	.008
	90	.037	.035	.035	.084	.084	.035	.080	.034	.030	.035	.082	.042
75	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.082	---	.090	---	-.057	---	-.088	---	.138	---	-.980	---
	10	---	-.258	---	-.284	---	-.180	---	.080	---	.108	---	.199
	20	---	-.280	---	-.209	---	-.098	---	-.012	---	.054	---	.128
	30	-.052	-.168	-.058	-.170	-.117	-.093	-.178	-.035	-.260	.008	-.293	.062
	40	-.077	-.200	-.078	-.200	-.138	-.138	-.175	-.082	-.236	-.084	-.258	.012
	50	-.080	---	-.084	---	-.118	---	-.158	---	-.208	---	-.218	---
	60	-.058	-.128	-.052	-.130	-.077	-.080	-.138	-.062	-.140	-.048	-.150	-.088
	70	-.006	-.064	-.030	-.082	-.080	-.052	-.064	-.037	-.087	-.030	-.086	-.082
	80	.080	---	.038	---	.011	---	-.003	---	-.088	---	-.093	---
	90	.050	.036	.058	.036	.058	.040	.048	.048	.046	.055	.033	.038
95	0	.054	---	.308	---	.394	---	.309	---	.364	---	.807	---
	5	.047	---	.079	---	-.080	---	-.180	---	-.480	---	-.788	---
	10	-.008	-.084	-.019	-.058	-.111	-.127	-.238	-.008	-.368	.064	-.578	.142
	20	-.098	-.200	-.100	-.217	-.150	-.171	-.190	-.101	-.348	-.062	-.368	-.004
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.108	-.130	-.100	-.138	-.130	-.126	-.118	-.100	-.150	-.097	-.168	-.068
	50	-.087	-.108	-.099	-.107	-.095	-.089	-.098	-.080	-.112	-.072	-.121	-.072
	60	-.038	-.060	-.058	-.087	-.044	-.069	-.037	-.070	-.068	-.058	-.027	-.050
	70	0	---	0	---	.018	---	.012	---	-.018	---	-.035	---
	80	.172	---	.188	---	.079	---	.078	---	.094	---	.035	---
	90	---	.087	---	.085	---	.086	---	.088	---	.070	---	.080

NACA

TABLE VII.– CONTINUED

(j) M,0.90.

Percent span	Percent chord	Angle of attack, degrees: -1 Upper surface	-1 Lower surface	-0 Upper surface	-0 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
10.3	0	---	---	---	---	---	---	---	---	---	---
	.5	0.219	---	0.140	---	0.018	---	-0.080	---	-0.196	---
	1.25	-.156	---	.085	---	-.021	---	-.081	---	-.207	---
	2.5	---	---	---	---	---	---	---	---	---	---
	5	.012	-0.188	-.030	-0.180	-.094	-0.111	-.157	-0.048	-.188	0.019
	7.5	-.079	-.141	-.068	-.095	-.119	-.124	-.181	-.098	-.227	-.093
	10	-.089	---	-.121	---	-.132	---	-.191	---	-.254	---
	15	-.109	-.091	-.135	-.139	-.138	-.207	-.240	-.131	-.259	-.188
	20	-.115	-.105	-.141	-.160	-.151	-.211	-.244	-.138	-.276	-.188
	30	-.094	-.152	-.129	-.171	-.171	-.179	-.206	-.150	-.286	-.188
	40	-.052	-.185	-.081	-.185	-.164	-.104	-.115	-.148	-.139	-.141
35	0	---	---	---	---	---	---	---	---	---	---
	.5	.128	---	.051	---	-.024	---	-.071	---	-.175	---
	1.25	---	-.176	---	-.136	---	-.209	---	-.248	---	.063
	2.5	-.044	-.195	-.060	-.190	-.150	-.148	-.253	-.073	-.240	-.209
	5	-.072	-.250	-.108	-.138	-.159	-.175	-.241	-.120	-.172	-.248
	7.5	-.088	---	-.132	---	-.191	---	-.249	---	-.189	---
	10	-.115	-.193	-.152	-.211	-.179	-.168	-.244	-.132	-.214	-.248
	15	-.098	-.192	-.158	-.189	-.136	-.193	-.193	-.148	-.182	-.248
	20	-.060	-.186	-.078	-.138	-.085	-.248	-.116	-.248	-.121	-.248
	30	-.065	-.044	-.040	-.045	-.023	-.085	-.030	-.018	-.040	0
	40	.015	---	---	---	-.008	---	.015	---	.023	---
55	0	.130	---	.148	---	.131	---	.184	---	.135	---
	.5	---	---	---	---	---	---	---	---	---	---
	1.25	---	-.248	---	-.326	---	-.248	---	-.272	---	.063
	2.5	---	-.235	---	-.370	---	-.169	---	-.278	---	.188
	5	---	-.248	---	-.354	---	-.179	---	-.288	---	-.030
	7.5	-.073	---	-.116	---	-.158	---	-.230	---	-.172	---
	10	-.088	---	-.130	---	-.148	---	-.189	---	-.204	---
	15	-.058	---	-.083	---	-.128	---	-.139	---	-.152	---
	20	-.073	-.102	-.073	-.120	-.098	-.098	-.120	-.040	-.168	-.084
	30	-.002	-.023	-.014	-.023	-.038	-.030	-.008	-.021	-.008	-.038
	40	.088	.080	.013	.011	.008	.030	.018	.030	.007	.038
75	0	---	---	---	---	---	---	---	---	---	---
	.5	.100	---	.070	---	-.040	---	-.138	---	-.177	---
	1.25	---	-.207	---	-.274	---	-.111	---	-.207	---	.188
	2.5	---	-.248	---	-.268	---	-.119	---	-.248	---	.248
	5	-.052	-.197	-.064	-.158	-.138	-.138	-.200	-.038	-.248	-.004
	7.5	-.070	-.230	-.094	-.211	-.157	-.157	-.193	-.108	-.230	-.047
	10	-.094	---	-.108	---	-.193	---	-.138	---	-.198	---
	15	-.065	-.110	-.078	-.115	-.106	-.118	-.130	-.057	-.138	-.089
	20	-.037	-.090	-.043	-.090	-.078	-.038	-.080	-.038	-.081	-.038
	30	.001	---	-.002	---	-.008	---	-.080	---	-.088	---
	40	.040	.030	.030	.004	.030	.023	.093	.002	.048	.049
95	0	.230	---	.230	---	.181	---	.198	---	.198	---
	.5	.079	---	.050	---	-.080	---	-.248	---	-.198	---
	1.25	.028	-.252	-.028	-.248	-.130	-.147	-.230	-.083	-.245	---
	2.5	-.108	-.273	-.128	-.273	-.178	-.248	-.230	-.131	-.279	-.138
	5	---	---	---	---	---	---	---	---	---	---
	7.5	-.138	-.145	-.188	-.138	-.139	-.131	-.150	-.112	-.147	-.108
	10	-.098	-.128	-.093	-.111	-.098	-.118	-.118	-.098	-.105	-.088
	15	-.079	-.028	-.058	-.078	-.049	-.038	-.028	-.028	-.052	-.028
	20	-.025	---	0	---	.006	---	.025	---	.008	---
	30	.055	---	.002	---	.051	---	.028	---	.057	---
	40	---	.009	---	.061	---	.079	---	.080	---	.038

(k) M,0.92.

Percent span	Percent chord	Angle of attack, degrees: -1 Upper surface	-1 Lower surface	-0 Upper surface	-0 Lower surface	0 Upper surface	0 Lower surface	2 Upper surface	2 Lower surface	4 Upper surface	4 Lower surface
10.3	0	---	---	---	---	---	---	---	---	---	---
	.5	0.248	---	0.160	---	0.019	---	-0.091	---	-0.220	---
	1.25	.162	---	.109	---	-.009	---	-.091	---	-.179	---
	2.5	---	---	---	---	---	---	---	---	---	---
	5	.035	-0.188	-.018	-0.131	-.097	-0.096	-.168	-0.039	-.218	0.039
	7.5	-.010	-.139	-.047	-.093	-.117	-.137	-.188	-.088	-.242	-.051
	10	-.070	---	-.108	---	-.136	---	-.239	---	-.259	---
	15	-.089	-.085	-.132	-.172	-.208	-.168	-.247	-.131	-.279	-.051
	20	-.091	-.107	-.158	-.191	-.232	-.205	-.251	-.158	-.278	-.098
	30	-.093	-.152	-.130	-.208	-.205	-.184	-.271	-.138	-.216	-.098
	40	-.060	-.232	-.029	-.240	-.139	-.200	-.179	-.228	-.251	-.249
35	0	---	---	---	---	---	---	---	---	---	---
	.5	.188	---	.095	---	-.195	---	-.192	---	-.206	---
	1.25	---	-.267	---	-.248	---	-.138	---	-.280	---	.088
	2.5	-.082	-.198	-.048	-.248	-.183	-.162	-.206	-.238	-.198	-.248
	5	-.088	-.158	-.108	-.131	-.238	-.200	-.239	-.130	-.248	-.248
	7.5	-.099	---	-.170	---	-.248	---	-.245	---	-.238	---
	10	-.110	-.198	-.128	-.193	-.198	-.138	-.230	-.142	-.239	-.108
	15	-.073	-.150	-.098	-.163	-.198	-.198	-.168	-.131	-.198	-.073
	20	-.089	-.108	-.068	-.122	-.088	-.053	-.118	-.088	-.189	-.038
	30	-.058	-.038	-.008	-.038	-.038	-.018	-.088	0	-.058	0
	40	.030	---	.030	---	.080	---	.088	---	.008	---
55	0	.238	---	.138	---	.195	---	.158	---	.137	---
	.5	---	---	---	---	---	---	---	---	---	---
	1.25	---	-.230	---	-.370	---	-.250	---	-.048	---	.024
	2.5	---	-.306	---	-.276	---	-.143	---	-.051	---	.048
	5	---	-.248	---	-.290	---	-.188	---	-.080	---	-.038
	7.5	-.060	---	-.100	---	-.157	---	-.230	---	-.278	---
	10	-.073	---	-.108	---	-.158	---	-.198	---	-.212	---
	15	-.042	---	-.060	---	-.188	---	-.147	---	-.198	---
	20	-.050	-.101	-.074	-.187	-.130	-.050	-.080	-.083	-.135	-.050
	30	.019	-.039	-.010	-.033	-.008	-.023	-.043	-.010	-.033	.001
	40	.041	.029	.040	.018	.080	.004	.038	.038	.018	.042
75	0	---	---	---	---	---	---	---	---	---	---
	.5	.004	---	.004	---	-.111	---	-.172	---	-.090	---
	1.25	---	-.158	---	-.260	---	-.008	---	.033	---	.101
	2.5	---	-.240	---	-.209	---	.090	---	.039	---	.248
	5	-.024	-.200	-.060	-.128	-.153	-.111	-.186	-.068	-.198	-.248
	7.5	-.058	-.211	-.088	-.215	-.162	-.147	-.212	-.098	-.127	-.158
	10	-.048	---	-.093	---	-.158	---	-.208	---	-.219	---
	15	-.037	-.136	-.064	-.110	-.108	-.101	-.130	-.088	-.130	-.048
	20	-.080	-.046	-.042	-.087	-.074	-.089	-.093	-.088	-.087	-.098
	30	.020	---	.008	---	-.011	---	-.089	---	-.093	---
	40	.061	.042	.038	.038	.040	.007	.030	.007	.086	.042
95	0	.160	---	.198	---	.221	---	.190	---	.158	---
	.5	.060	---	.070	---	-.108	---	-.101	---	-.147	---
	1.25	.030	-.188	-.007	-.159	-.140	-.099	-.248	0	-.168	.038
	2.5	-.070	-.278	-.130	-.198	-.207	-.198	-.198	-.138	-.198	-.077
	5	---	---	---	---	---	---	---	---	---	---
	7.5	-.084	-.134	-.115	-.131	-.188	-.115	-.138	-.135	-.114	-.160
	10	-.072	-.088	-.088	-.080	-.095	-.095	-.165	-.098	-.117	-.098
	15	-.011	-.050	-.040	-.050	-.049	-.065	-.098	-.040	-.061	-.042
	20	.014	---	.019	---	.005	---	-.065	---	-.095	---
	30	.079	---	.064	---	.070	---	.037	---	.037	---
	40	---	.095	---	.101	---	.300	---	.065	---	.084

NACA

TABLE VII.– CONCLUDED

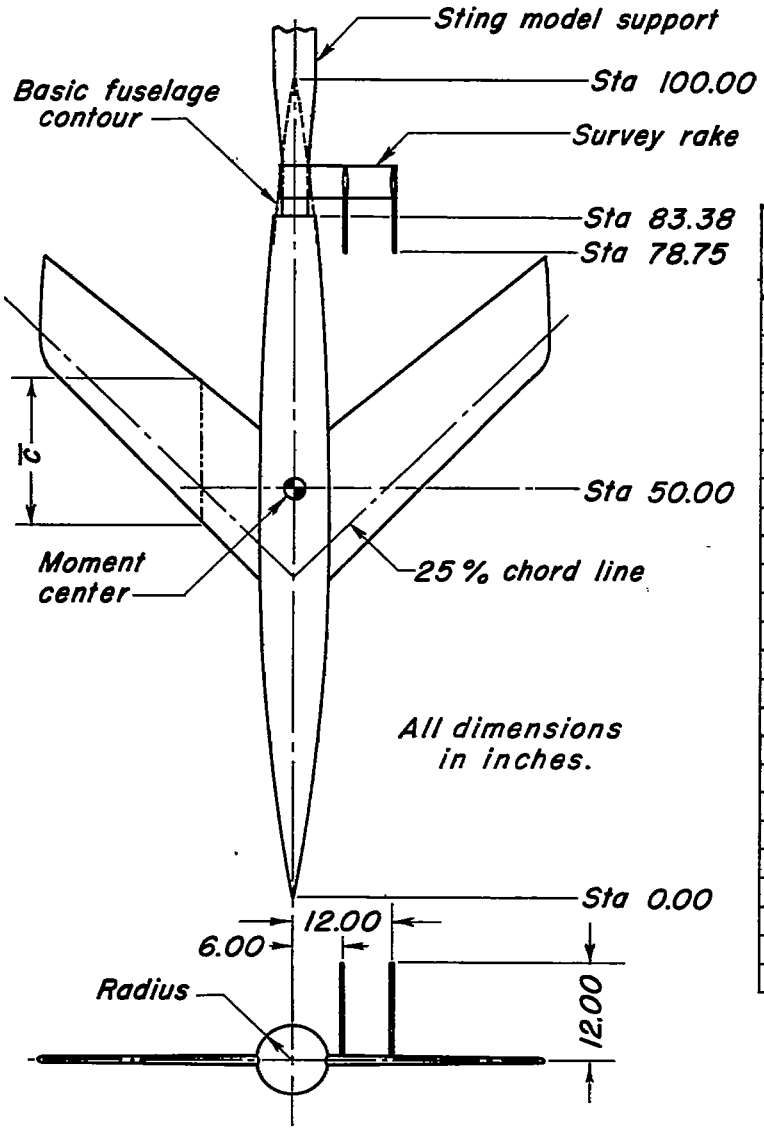
(1) M,0.94.

Percent semi-span	Percent chord	Angle of attack, degrees									
		-4		-2		0		2		4	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
12.5	0	---	---	---	---	---	---	---	---	---	---
	5	0.250	---	0.179	---	0.046	---	-0.079	---	-0.200	---
	10	.176	---	.122	---	.022	---	-.079	---	-.153	---
	20	---	---	---	---	---	---	---	---	---	---
	30	.041	-0.218	.010	-0.154	-.088	-0.104	-.139	-0.084	-.208	0.085
	40	-.014	-.239	-.039	-.180	-.139	-.145	-.182	-.065	-.246	-.022
	50	-.068	---	-.091	---	-.176	---	-.217	---	-.260	---
	60	-.093	-.288	-.120	-.237	-.204	-.209	-.243	-.129	-.299	-.093
	70	-.121	-.308	-.155	-.261	-.240	-.241	-.278	-.160	-.330	-.125
	80	-.111	-.310	-.140	-.269	-.231	-.239	-.279	-.150	-.332	-.120
	90	-.087	-.280	-.105	-.230	-.205	-.080	-.250	-.091	-.310	-.088
35	0	---	---	---	---	---	---	---	---	---	---
	5	.138	---	.040	---	-.110	---	-.288	---	-.539	---
	10	---	-.358	---	-.300	---	-.172	---	-.030	---	.050
	20	-.025	-.350	-.092	-.289	-.188	-.203	-.269	-.085	-.350	-.025
	30	-.070	-.362	-.140	-.328	-.229	-.247	-.300	-.140	-.372	-.095
	40	-.120	---	-.180	---	-.270	---	-.338	---	-.402	---
	50	-.130	-.422	-.150	-.387	-.270	-.285	-.300	-.155	-.450	-.130
	60	-.090	-.372	-.113	-.315	-.161	-.168	-.280	-.105	-.350	-.005
	70	-.062	-.158	-.070	-.090	-.070	-.070	-.090	-.060	-.168	-.060
	80	-.010	-.038	-.080	-.020	-.018	-.003	-.024	-.010	-.050	-.005
	90	.027	---	.015	---	.015	---	.017	---	.011	---
55	0	.312	---	.428	---	.469	---	.370	---	.215	---
	5	---	---	---	---	---	---	---	---	---	---
	10	---	-.257	---	-.362	---	-.240	---	-.038	---	.030
	20	---	-.408	---	-.330	---	-.178	---	-.070	---	-.008
	30	---	-.391	---	-.273	---	-.170	---	-.088	---	-.048
	40	-.068	---	-.100	---	-.167	---	-.188	---	-.332	---
	50	-.073	---	-.108	---	-.150	---	-.180	---	-.176	---
	60	-.049	---	-.079	---	-.120	---	-.150	---	-.117	---
	70	-.048	-.082	-.065	-.110	-.093	-.100	-.115	-.052	-.093	-.040
	80	.022	-.016	-.008	-.025	-.028	-.028	-.028	-.008	-.017	.022
	90	.047	.030	.038	.058	.021	.021	.030	.038	.022	.048
75	0	---	---	---	---	---	---	---	---	---	---
	5	.121	---	.078	---	-.067	---	-.253	---	-.582	---
	10	---	-.342	---	-.260	---	-.122	---	.023	---	.087
	20	---	-.200	---	-.200	---	-.100	---	0	---	.045
	30	-.025	-.213	-.060	-.190	-.157	-.125	-.213	-.068	-.240	-.025
	40	-.049	-.245	-.084	-.199	-.148	-.157	-.190	-.086	-.231	-.057
	50	-.074	---	-.096	---	-.142	---	-.188	---	-.215	---
	60	-.042	-.144	-.063	-.130	-.101	-.102	-.129	-.067	-.157	-.057
	70	-.023	-.068	-.040	-.080	-.075	-.068	-.080	-.040	-.091	-.040
	80	.020	---	.018	---	.003	---	-.020	---	-.030	---
	90	.052	.050	.050	.035	.050	.033	.034	.032	.038	.033
95	0	.180	---	.360	---	.500	---	.500	---	.420	---
	5	.097	---	.063	---	-.090	---	-.302	---	-.573	---
	10	.039	-.291	-.018	-.247	-.130	-.130	-.252	-.010	.060	-.385
	20	-.060	-.301	-.129	-.292	-.205	-.227	-.280	-.138	-.317	-.097
	30	---	---	---	---	---	---	---	---	---	---
	40	-.082	-.112	-.101	-.110	-.127	-.127	-.112	-.118	-.108	-.101
	50	-.073	-.090	-.090	-.100	-.095	-.100	-.086	-.082	-.100	-.088
	60	-.035	-.045	-.032	-.060	-.050	-.061	-.042	-.050	-.040	-.030
	70	.018	---	.015	---	.009	---	.005	---	.012	---
	80	.065	---	.067	---	.067	---	.073	---	.071	---
	90	---	.107	---	.100	---	.088	---	.083	---	.078

CONFIDENTIAL

Figure 1.- Photograph of one of the wing-fuselage combinations and the survey rake mounted in the Ames 16-foot high-speed wind tunnel.

CONFIDENTIAL

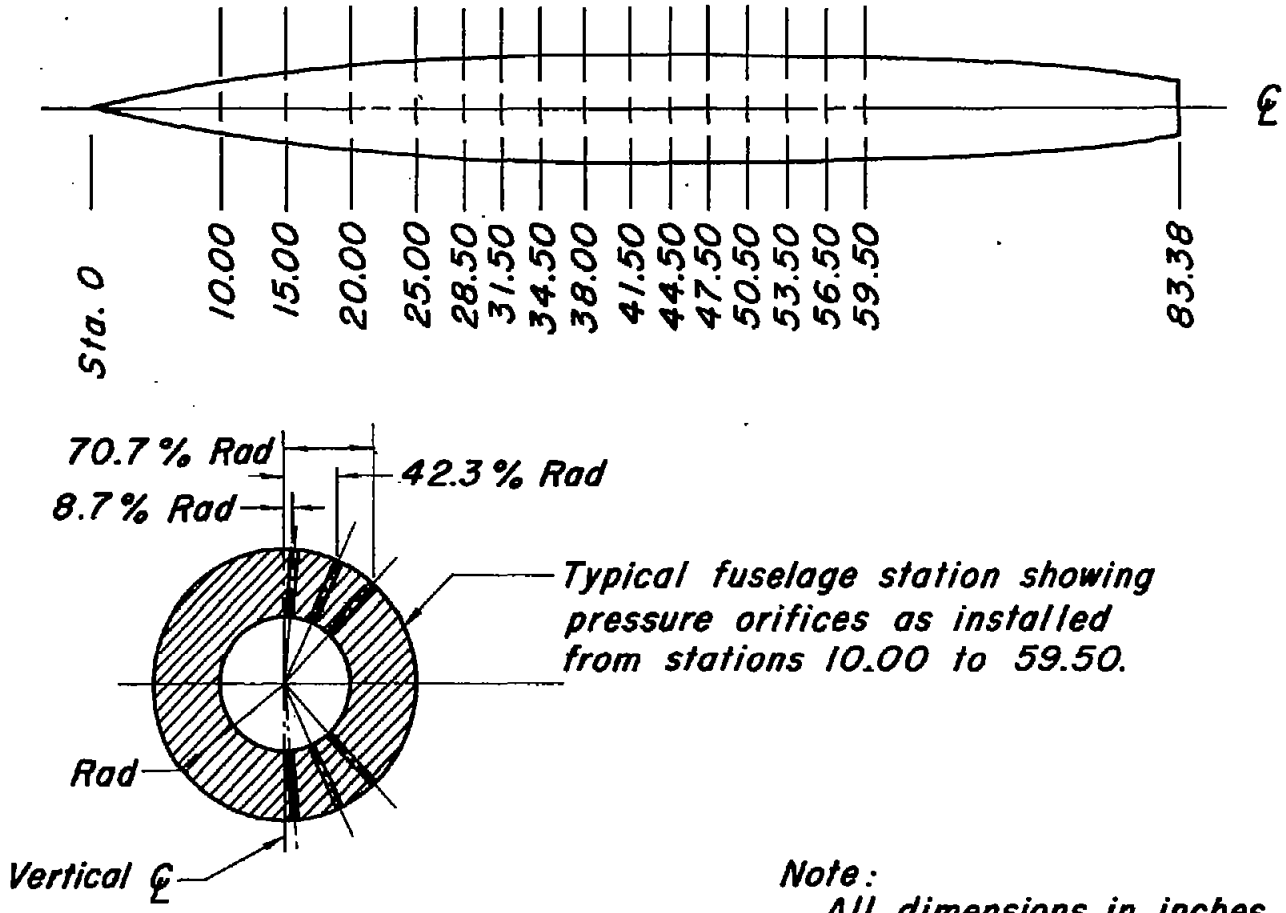


Basic fuselage coordinates	
Sta	Radius
0.00	0.00
2.50	0.722
5.00	1.205
7.50	1.613
10.00	1.971
15.00	2.593
20.00	3.090
25.00	3.465
30.00	3.741
35.00	3.933
40.00	4.063
45.00	4.143
50.00	4.167
55.00	4.130
60.00	4.024
65.00	3.842
70.00	3.562
75.00	3.128
80.00	2.526
85.00	1.852
90.00	1.125
95.00	0.439
100.00	0.00

Note:
As actually used the basic fuselage was modified to provide sting clearance by increasing the radius at sta 83.38 to 2.25 inches and fairing forward with straight-line elements to the points of tangency with the basic shape.

(a) Dimensions and coordinates.

Figure 2.–General arrangement of model showing a typical wing-fuselage combination with survey rake in position and fuselage details.



Note:
All dimensions in inches, except as noted.

(b) Fuselage pressure-orifice locations.

Figure 2.- Concluded.

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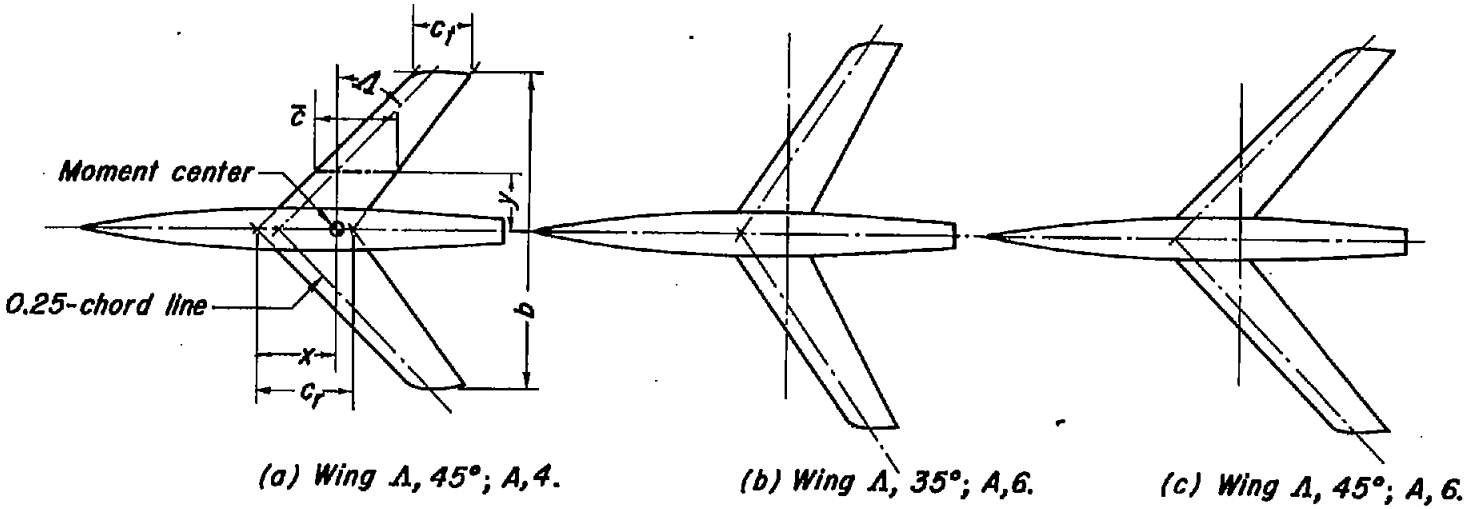

(a) Wing Λ, 45°; A,4. (b) Wing Λ, 35°; A,6. (c) Wing Λ, 45°; A, 6.

Wing	λ	b	c_r	c_t	$\bar{c}$	x	y	S
(a)	0.6	60.000	18.750	11.250	15.313	18.438	13.750	6.25
(b)	0.6	73.485	15.310	9.190	12.503	15.621	16.840	6.25
(c)	0.6	73.485	15.310	9.190	12.503	20.669	16.840	6.25

Notes:

(1) Wing sections parallel to free stream are NACA 65A006 for all wings.
(2) Wings are mounted at zero angles of incidence and dihedral.
(3) All dimensions in inches and areas in square feet.

(a) Dimensions and details.

Figure 3.- Wing plan forms.

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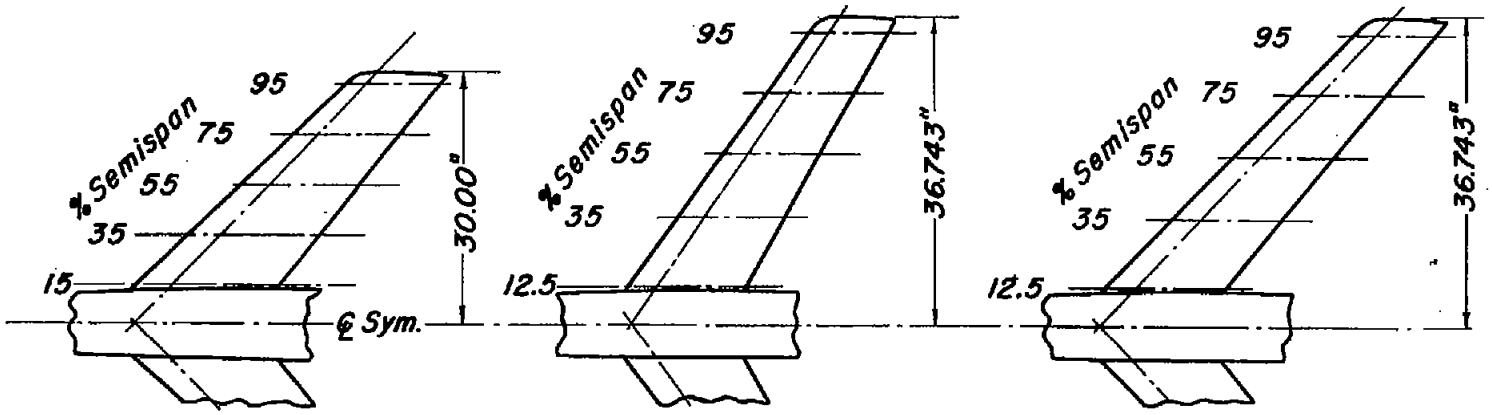

Wing Λ, 45°; A, 4. Wing Λ, 35°; A, 6. Wing Λ, 45°; A,6.

Note:
Twenty pressure orifices were installed at each wing station as follows: 0, 5, 10, 20, 30, 40, 50, 60, 70, 80, and 90 % wing chord on the upper surface and 10, 20, 30, 40, 50, 60, 70, 80, and 90 % wing chord on the lower surface.

(b) Wing pressure-orifice locations.
Figure 3.– Concluded.

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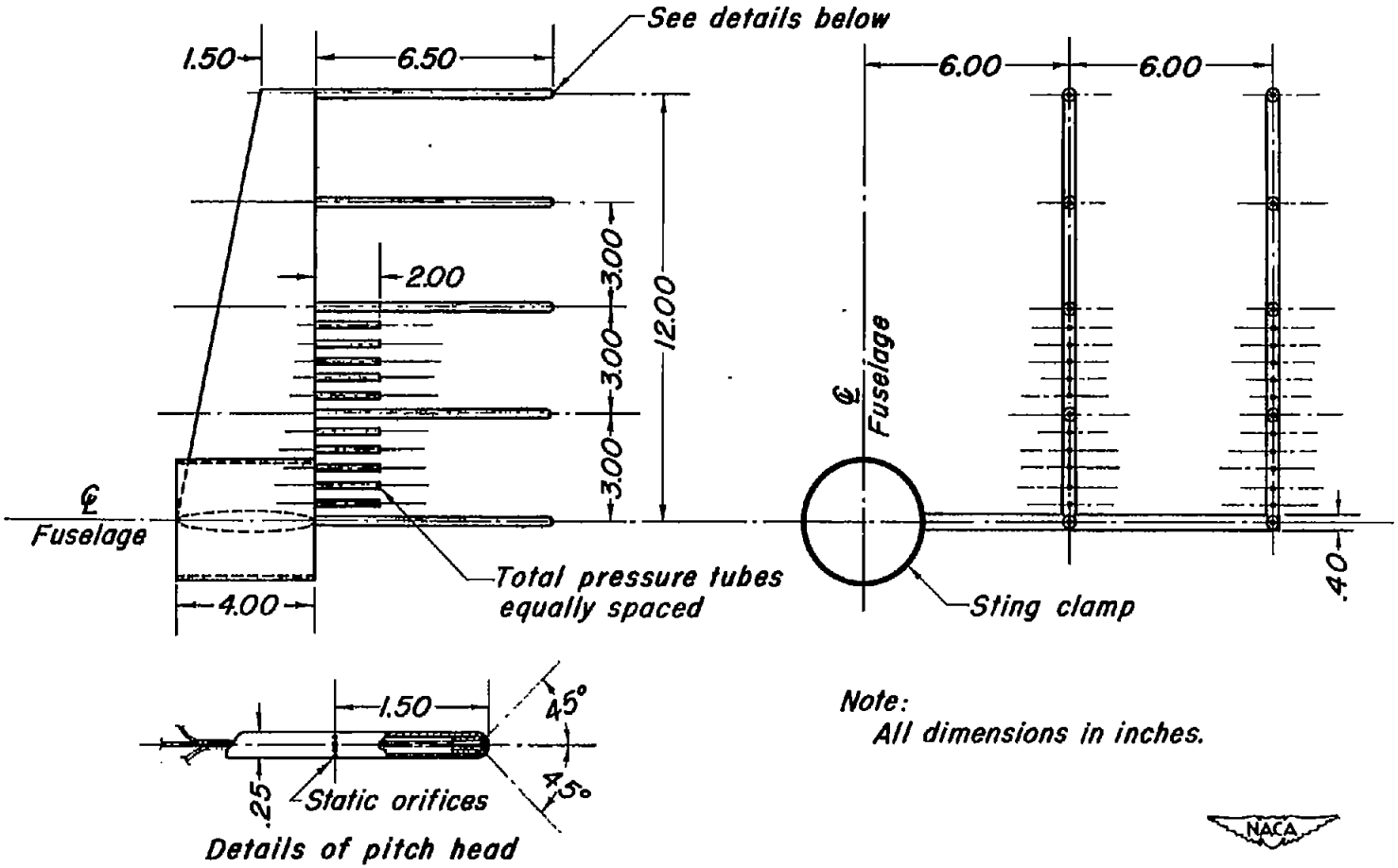

Figure 4.–Survey rake details and dimensions.

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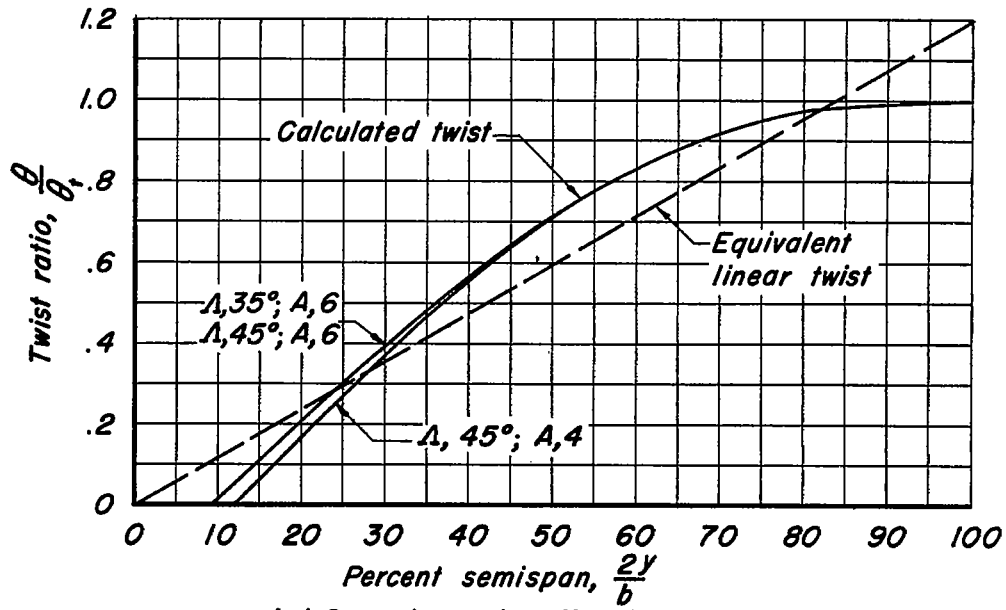
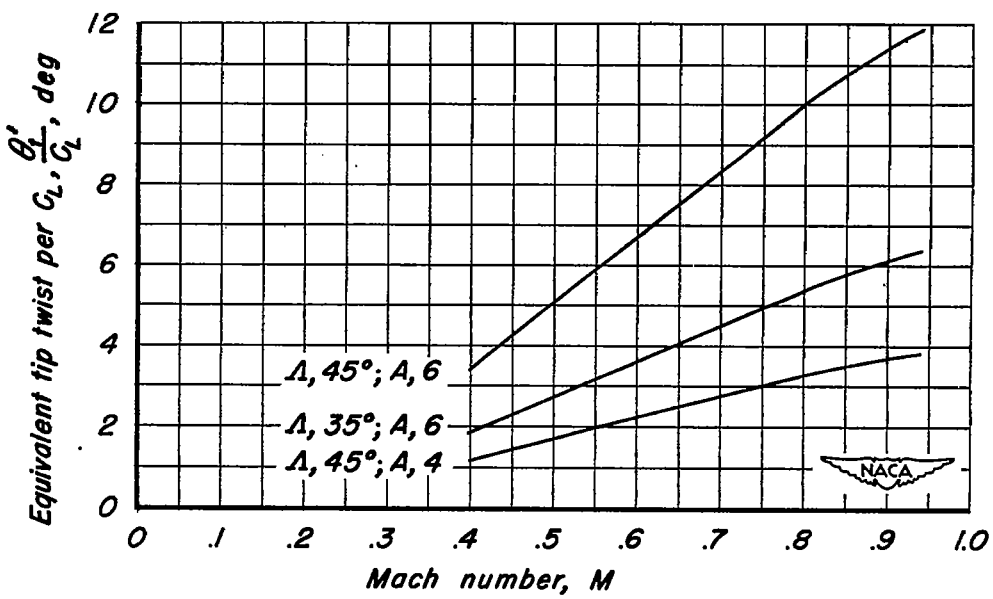


(a) Spanwise twist distribution.



(b) Variation of equivalent twist with Mach number assuming linear twist distribution.

Figure 5.—Wing twist due to elasticity for the three wing-fuselage models under the conditions of test.

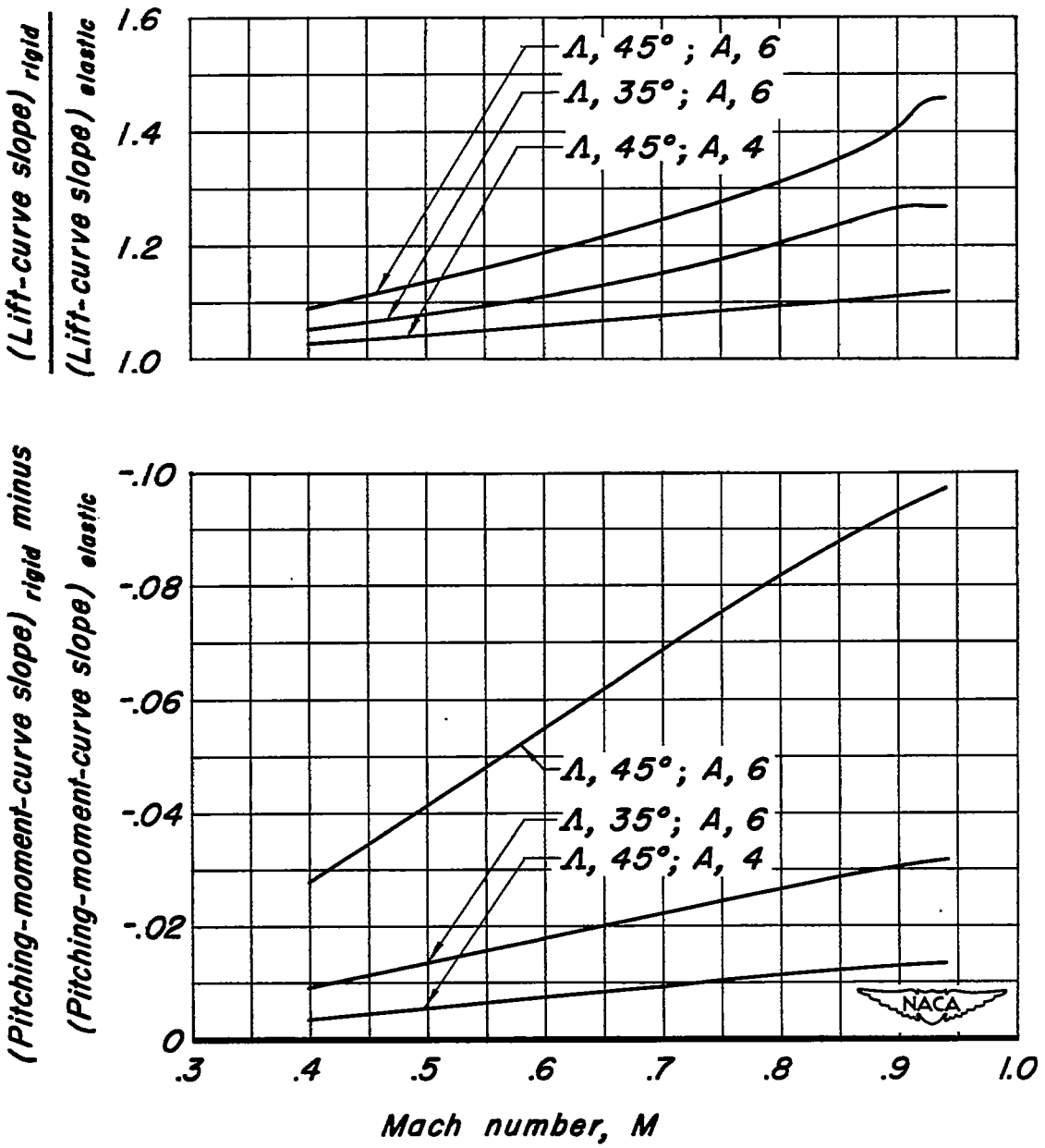
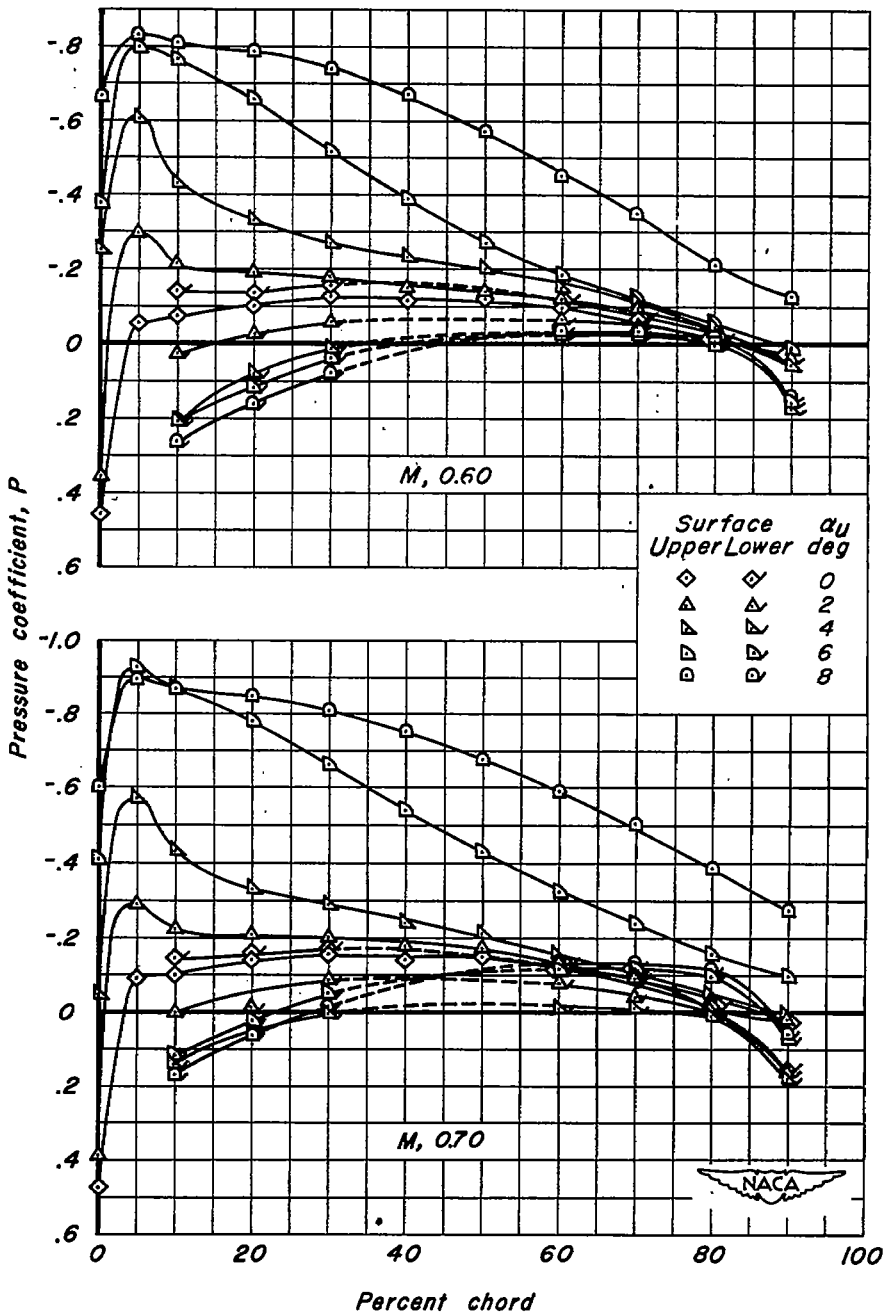
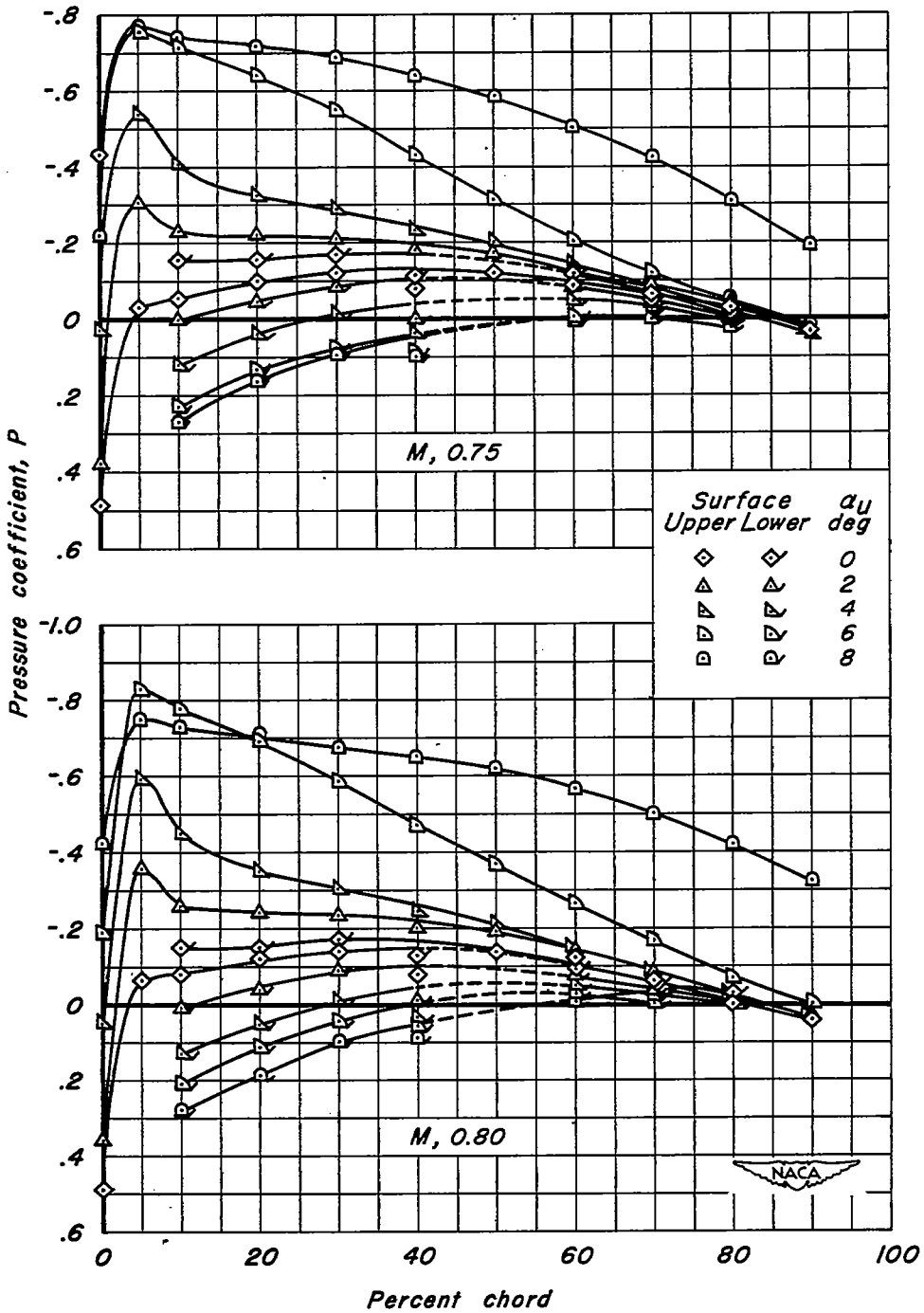


Figure 6.— Effect of aeroelastic twist on the lift-curve and pitching-moment-curve slopes for the three wing-fuselage combinations.



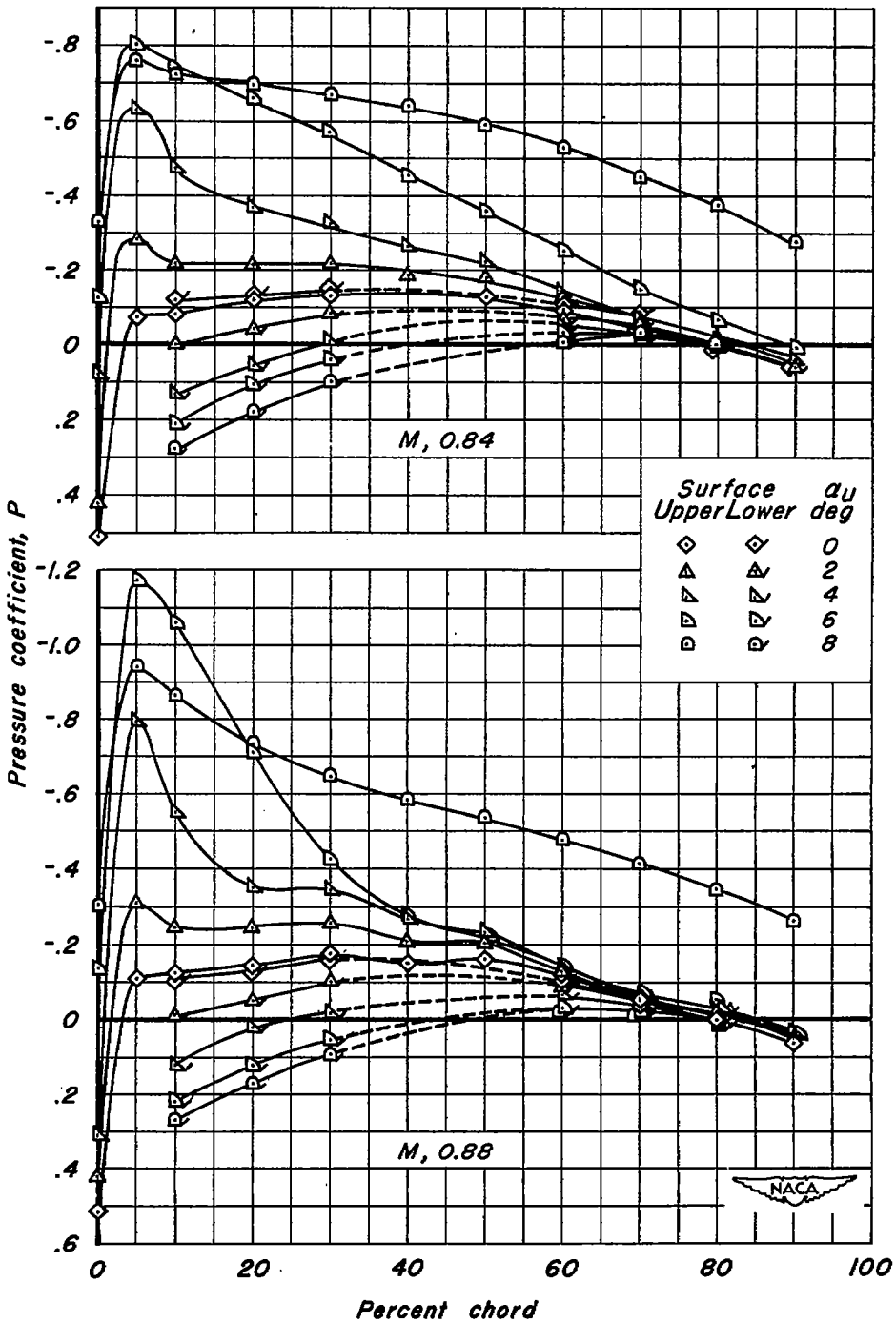
(a) M, 0.60 and 0.70.

Figure 7.— Chordwise distribution of pressures on a wing having a sweepback angle of 45° and an aspect ratio of 4 in combination with a fuselage. 75 % semispan.



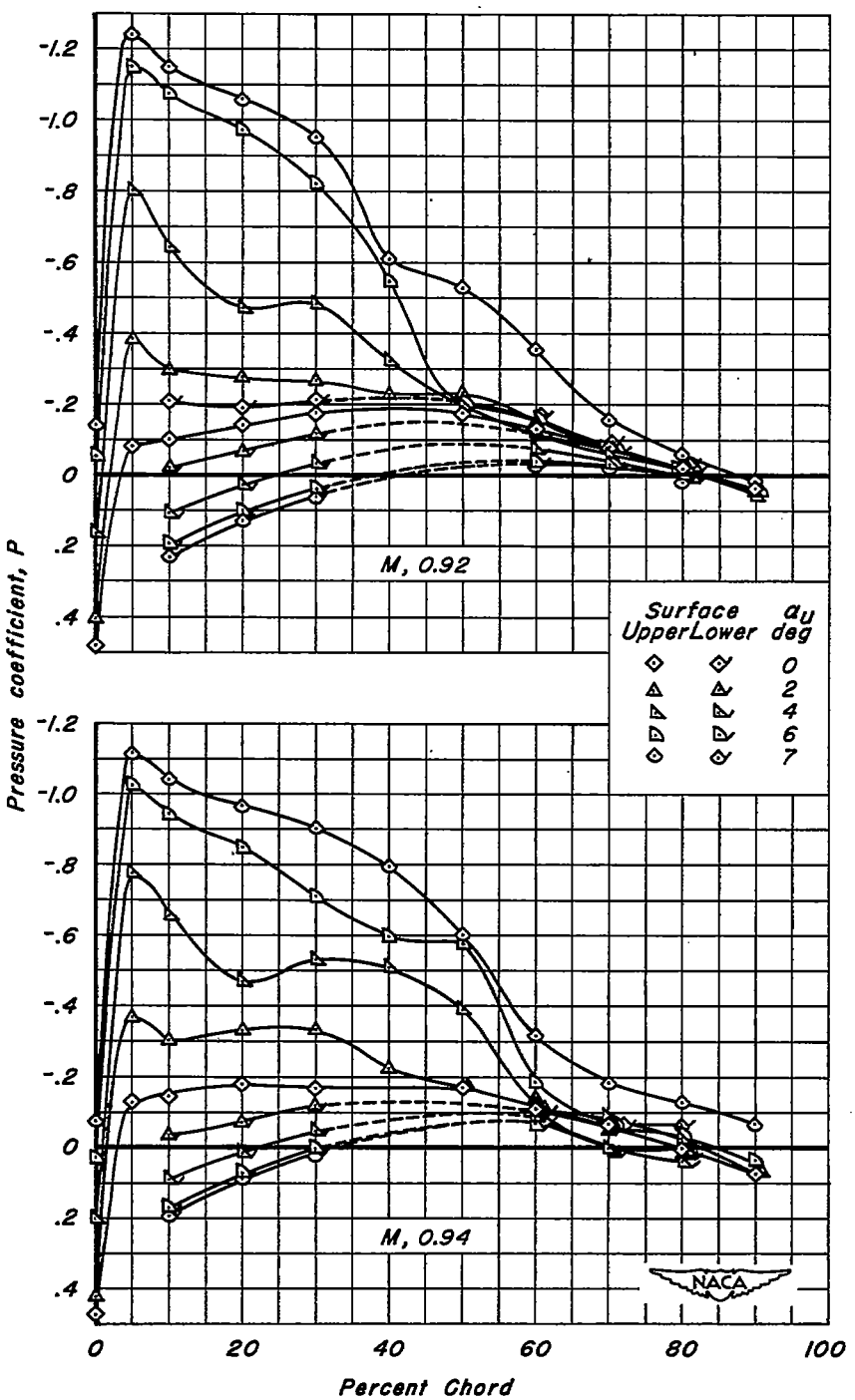
(b) M, 0.75 and 0.80.

Figure 7.—Continued.



(c) M, 0.84 and 0.88.

Figure 7.- Continued.



(d) M, 0.92 and 0.94.

Figure 7.—Concluded.

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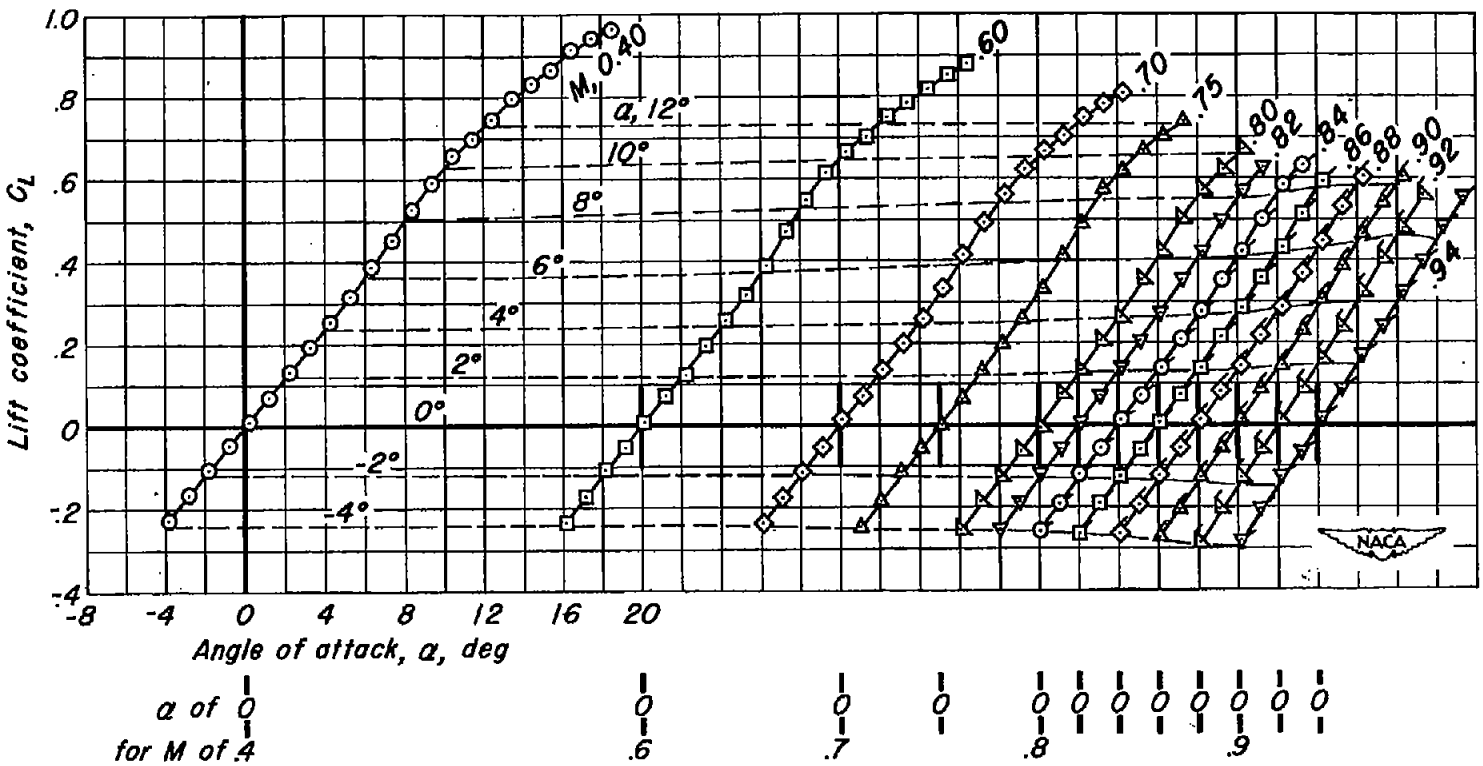

(a) Wing Λ, 45°; A, 4.

Figure 8.—Lift characteristics for the three wing-fuselage combinations.

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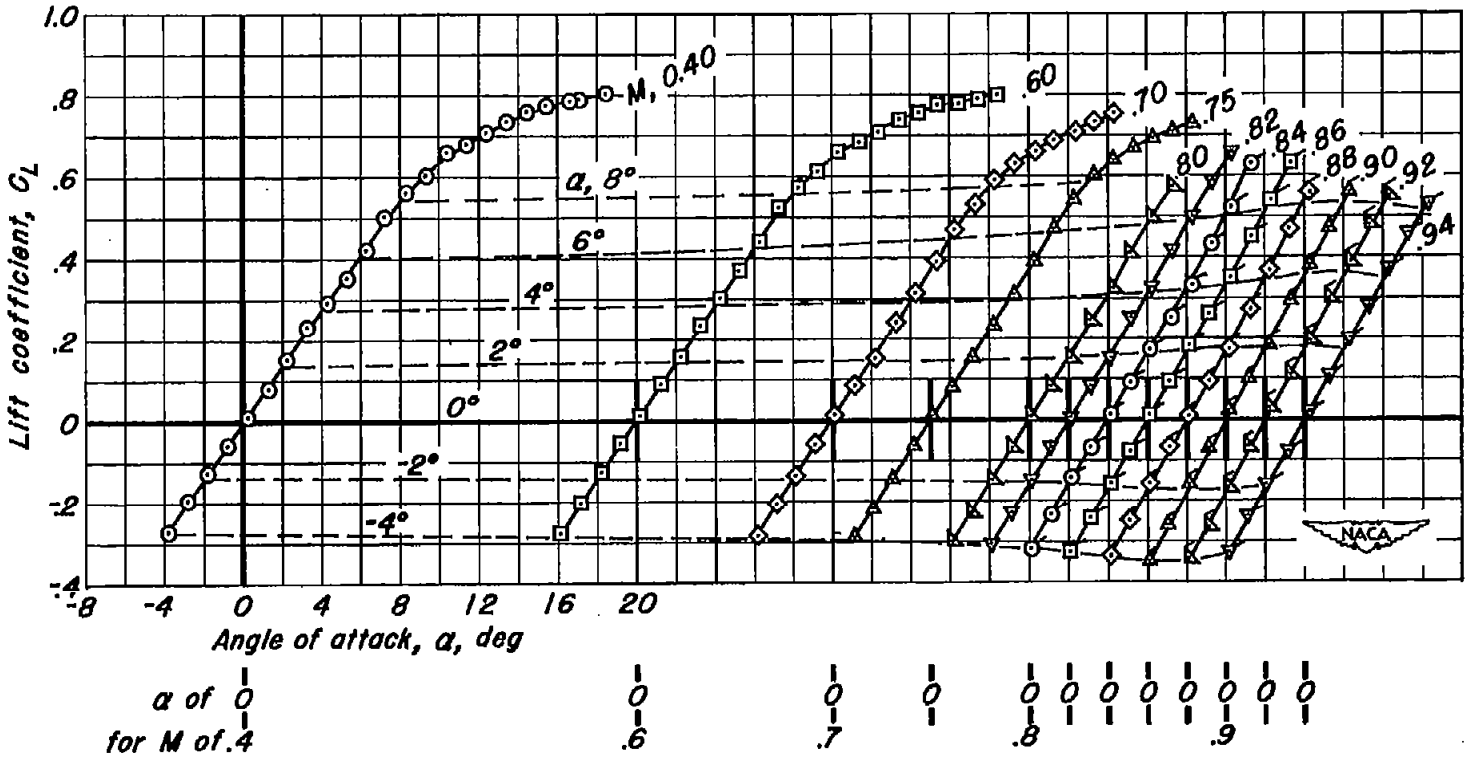

(b) Wing Λ, 35°; A, 6.

Figure 8.—Continued.

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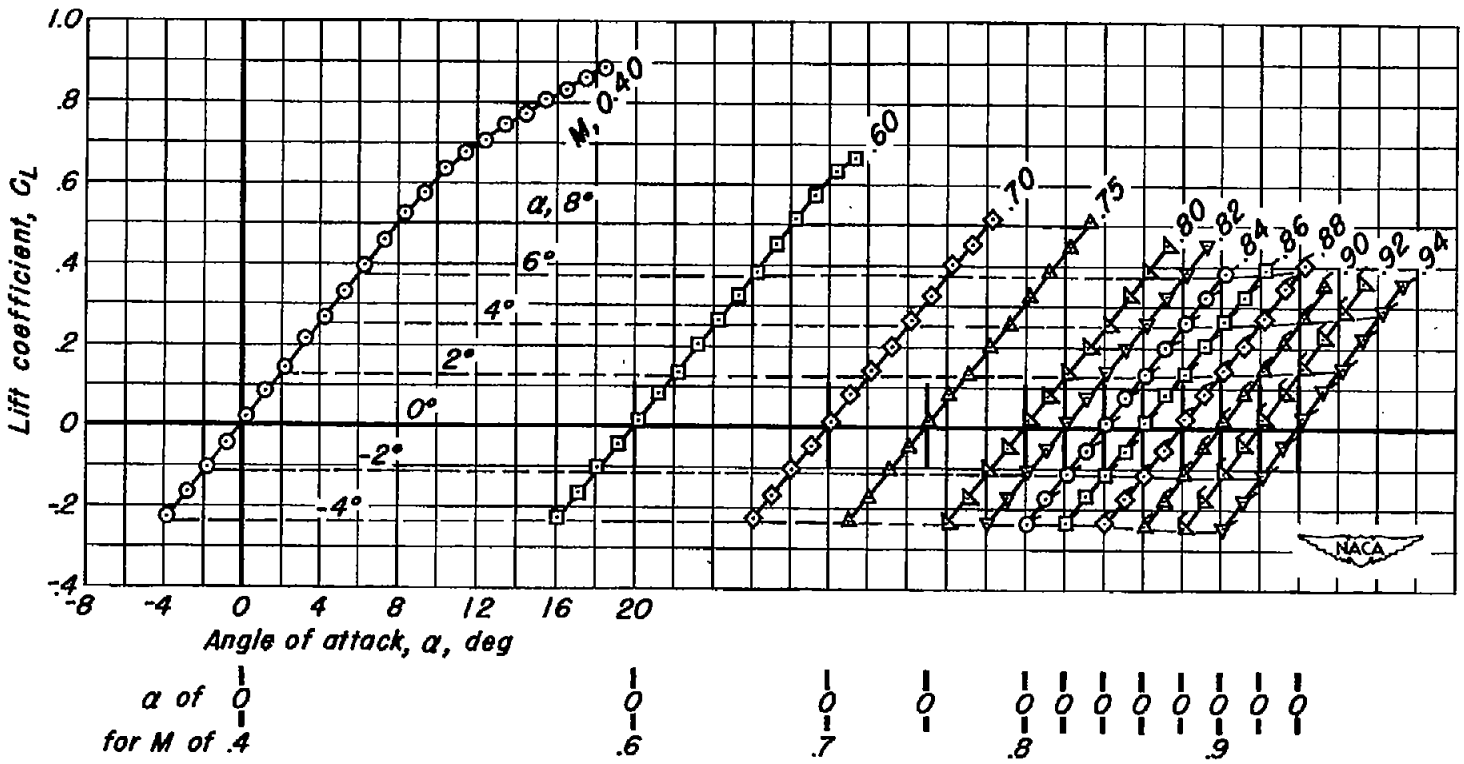

(c) Wing Λ, 45°; A, 6.

Figure 8.--Concluded.

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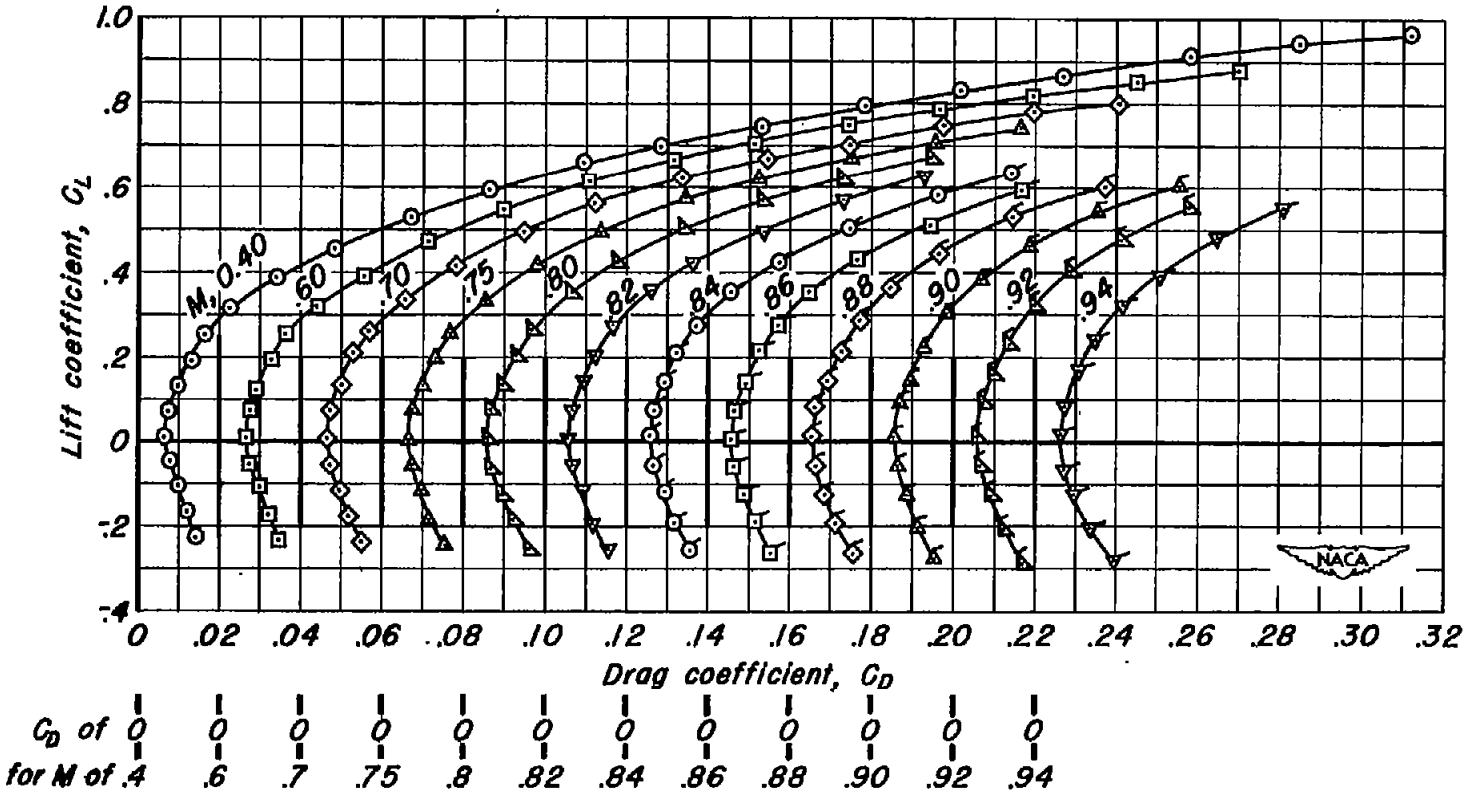

(a) Wing Δ, 45°; A, 4.

Figure 9.–Drag characteristics for the three wing-fuselage combinations.

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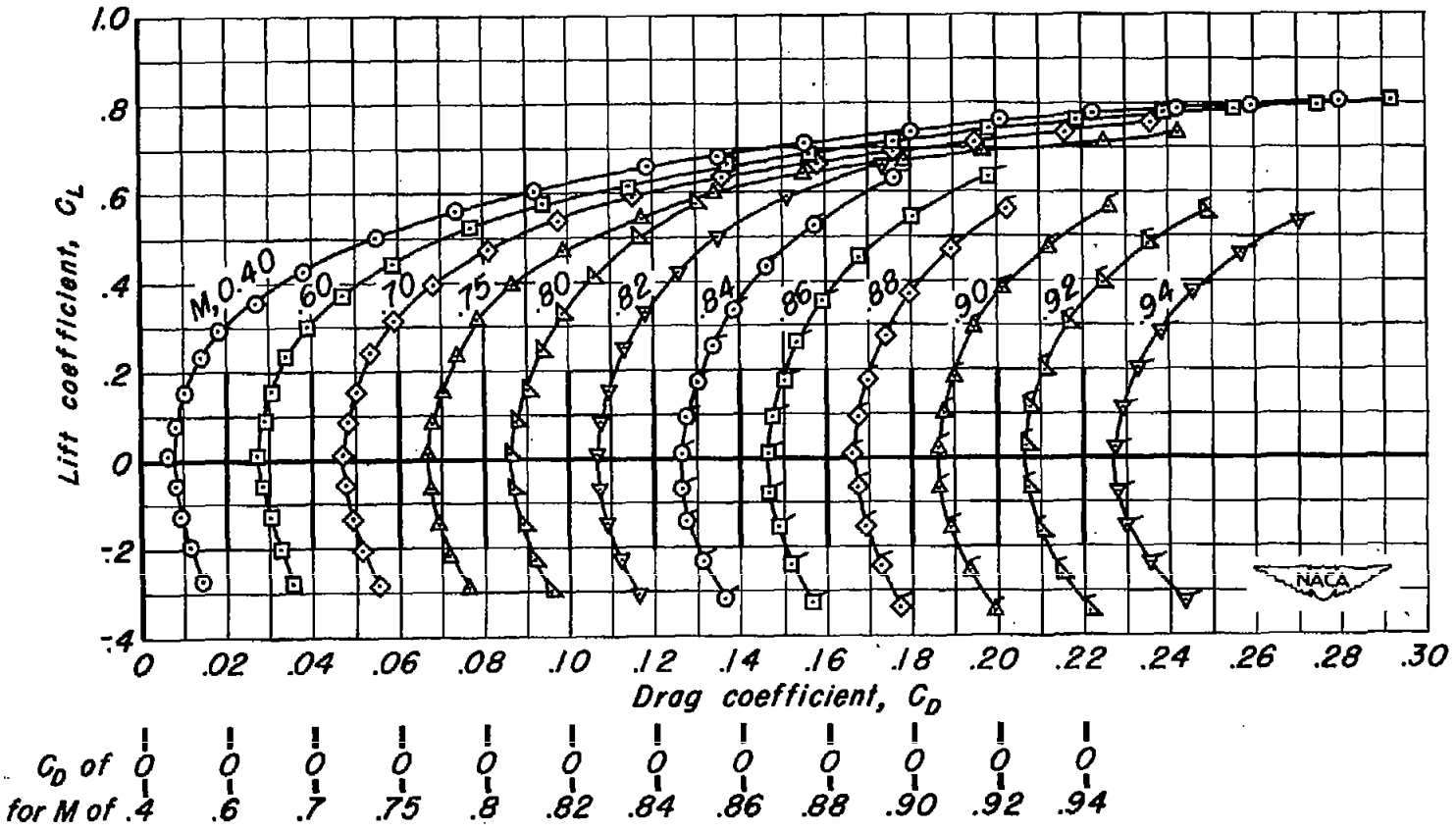

(b) Wing Λ, 35°; A, 6.

Figure 9.—Continued.

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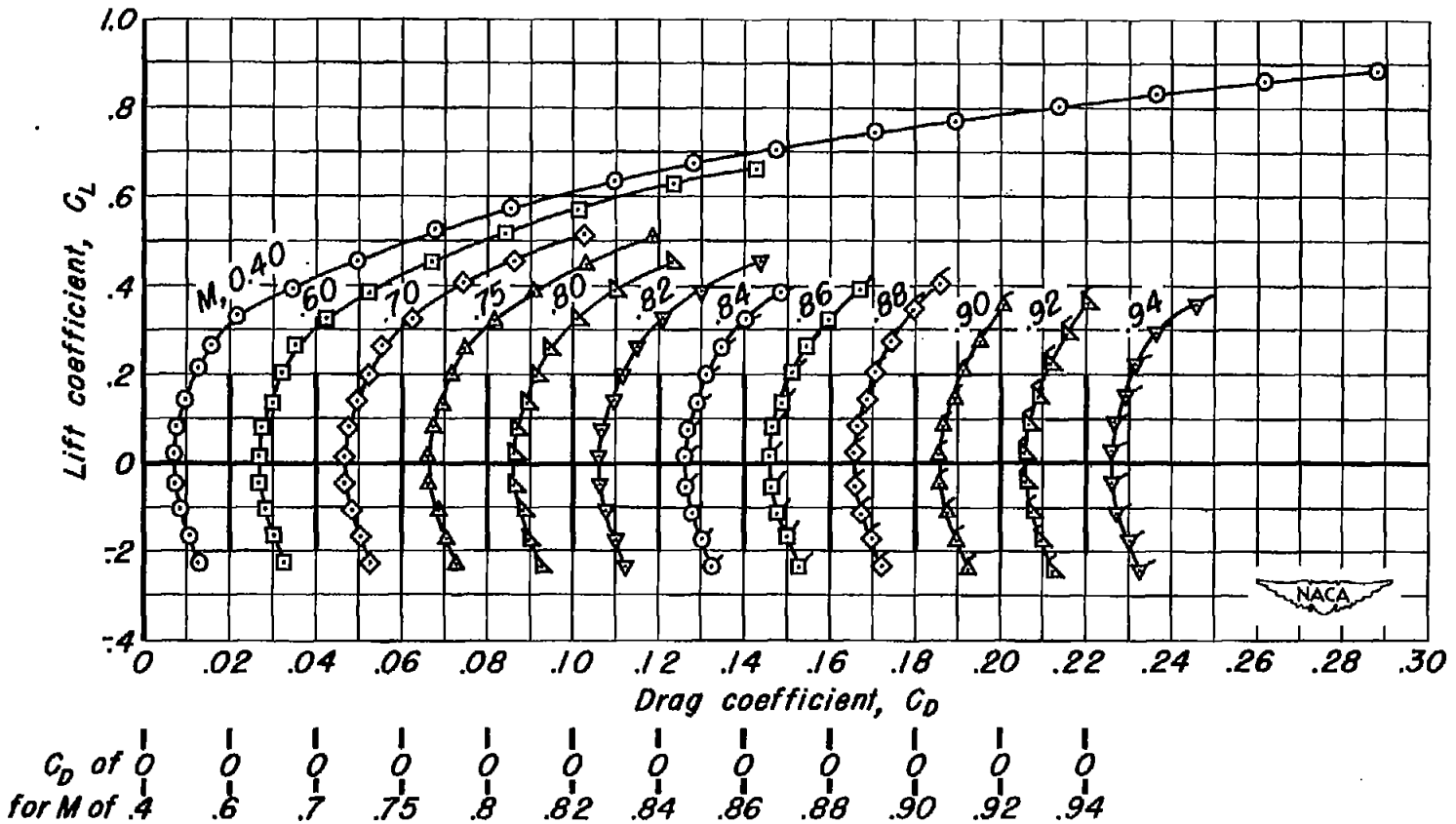

(c) Wing Λ, 45°; A, 6.

Figure 9.–Concluded.

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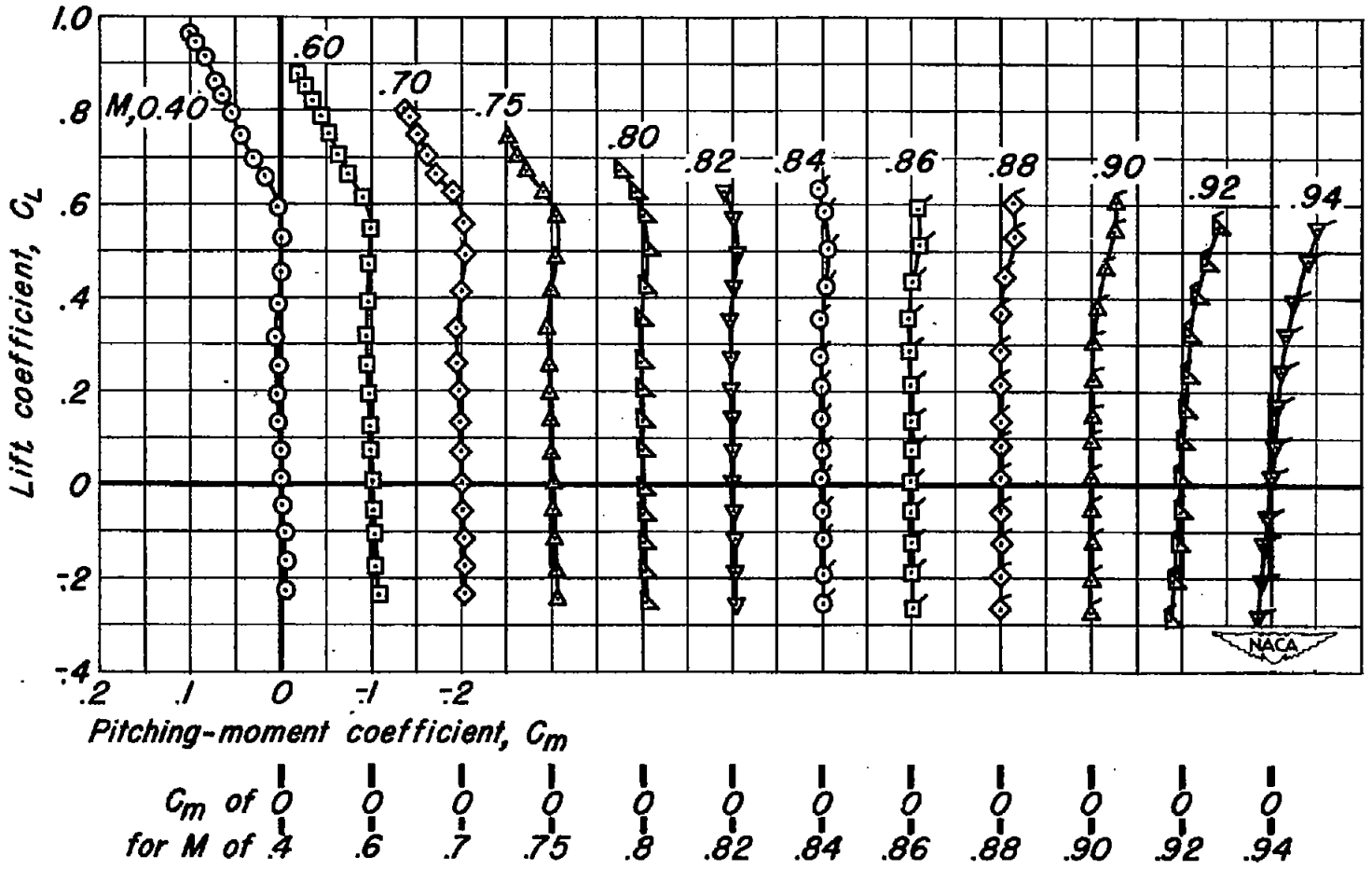

(a) Wing Λ, 45°; A, 4.

Figure 10.-Pitching-moment characteristics for the three wing-fuselage combinations.

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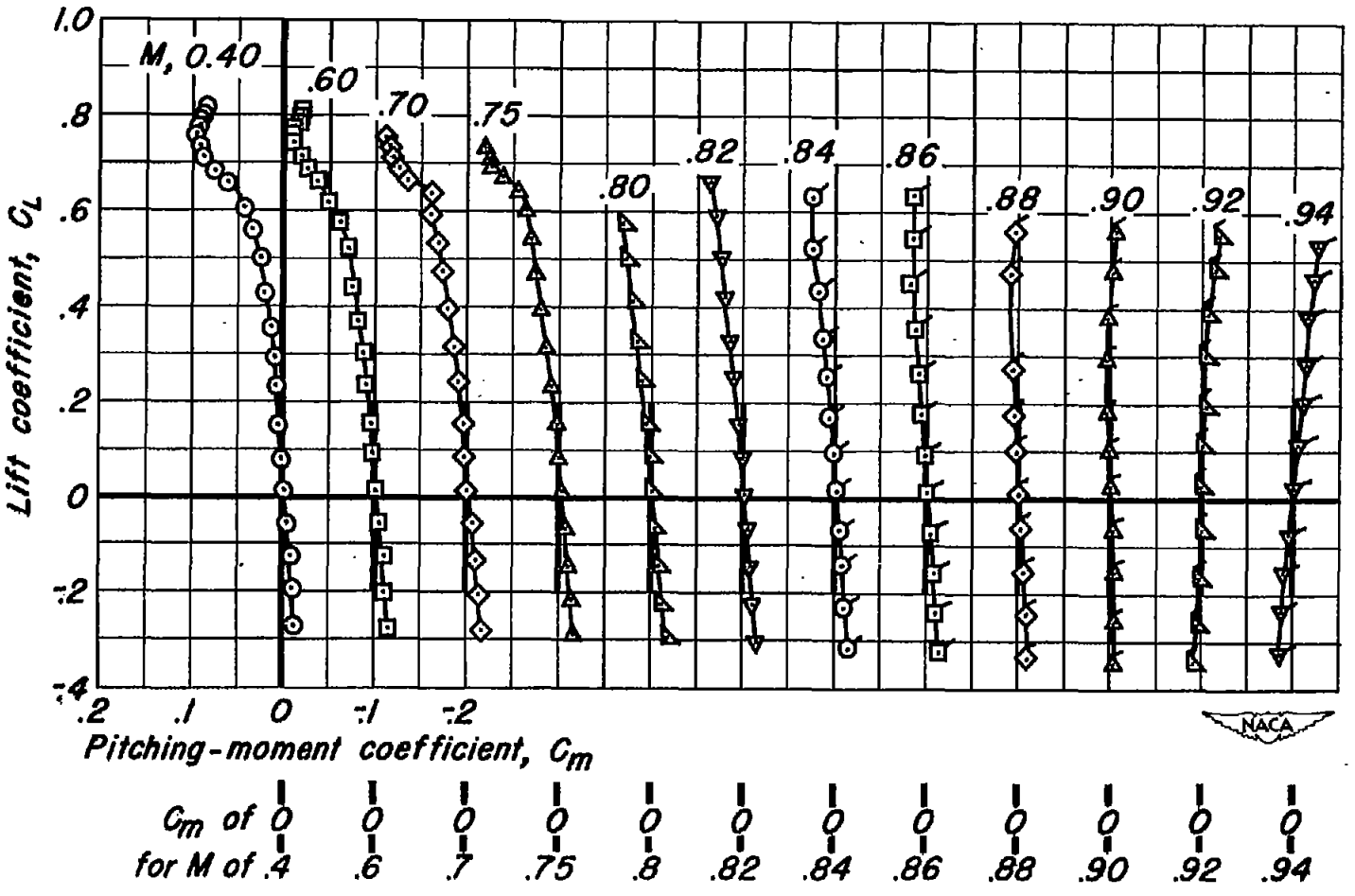

(b) Wing Λ, 35°; A, 6.

Figure 10.–Continued.

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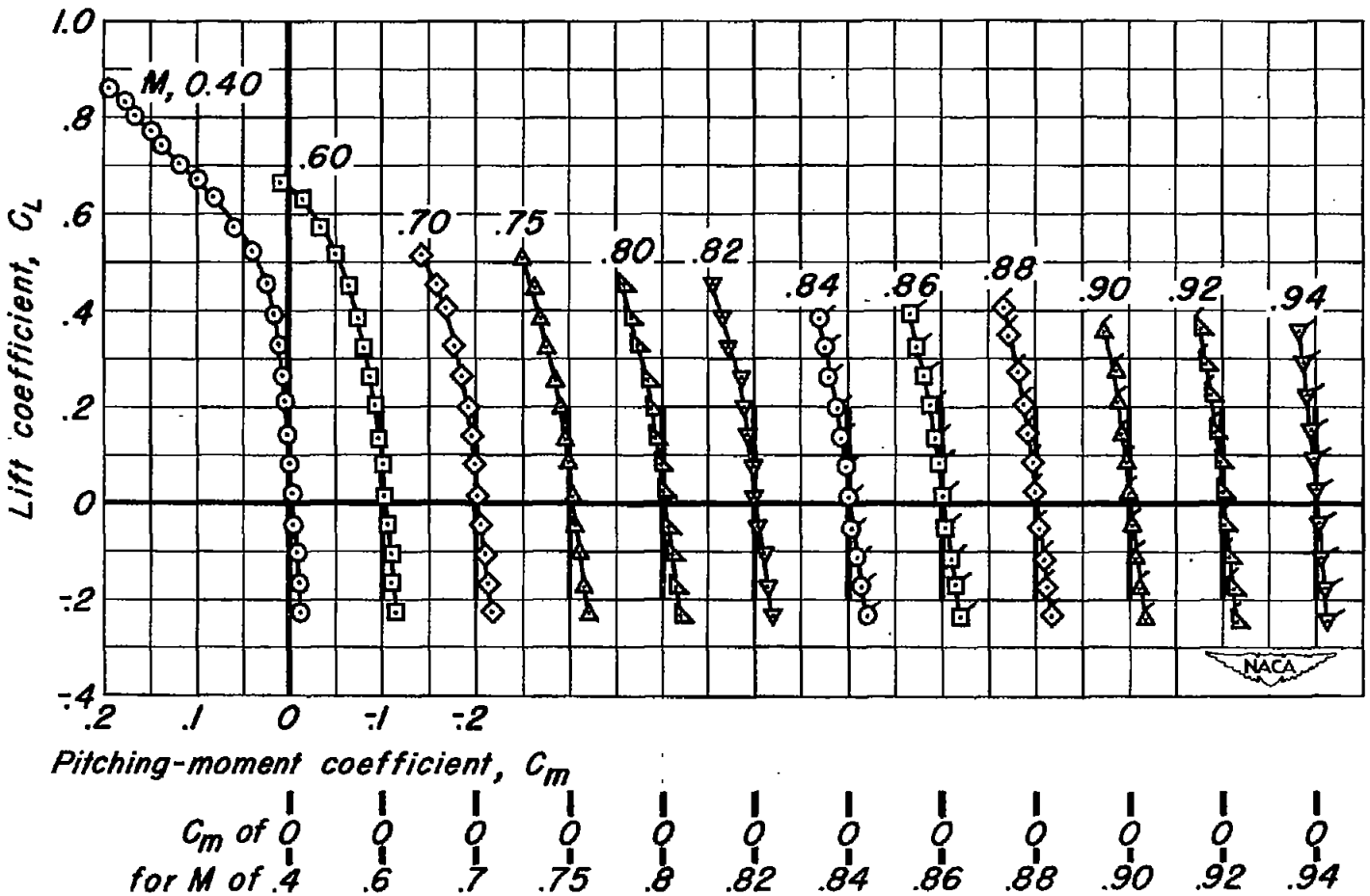

(c) Wing Λ, 45°; A, 6.

Figure 10.-Concluded.

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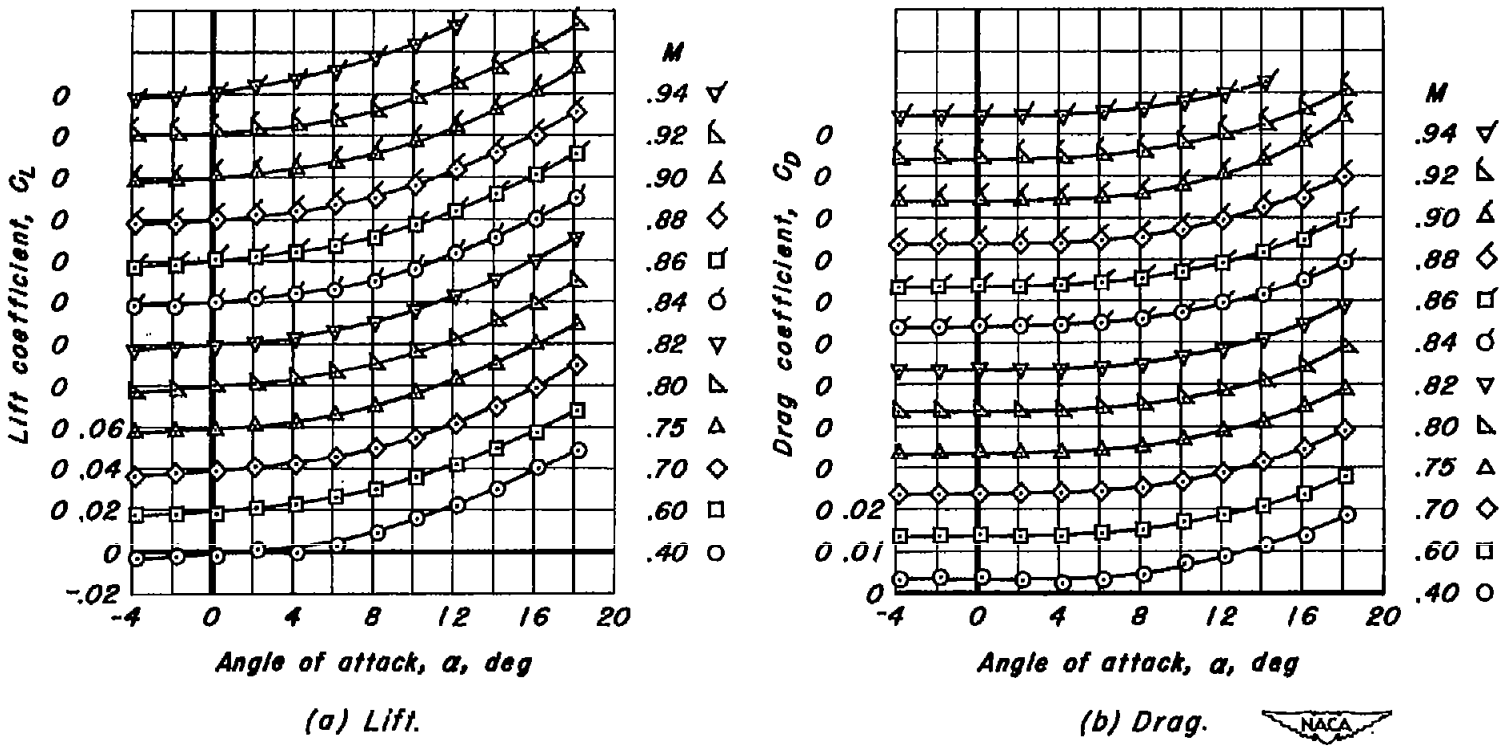
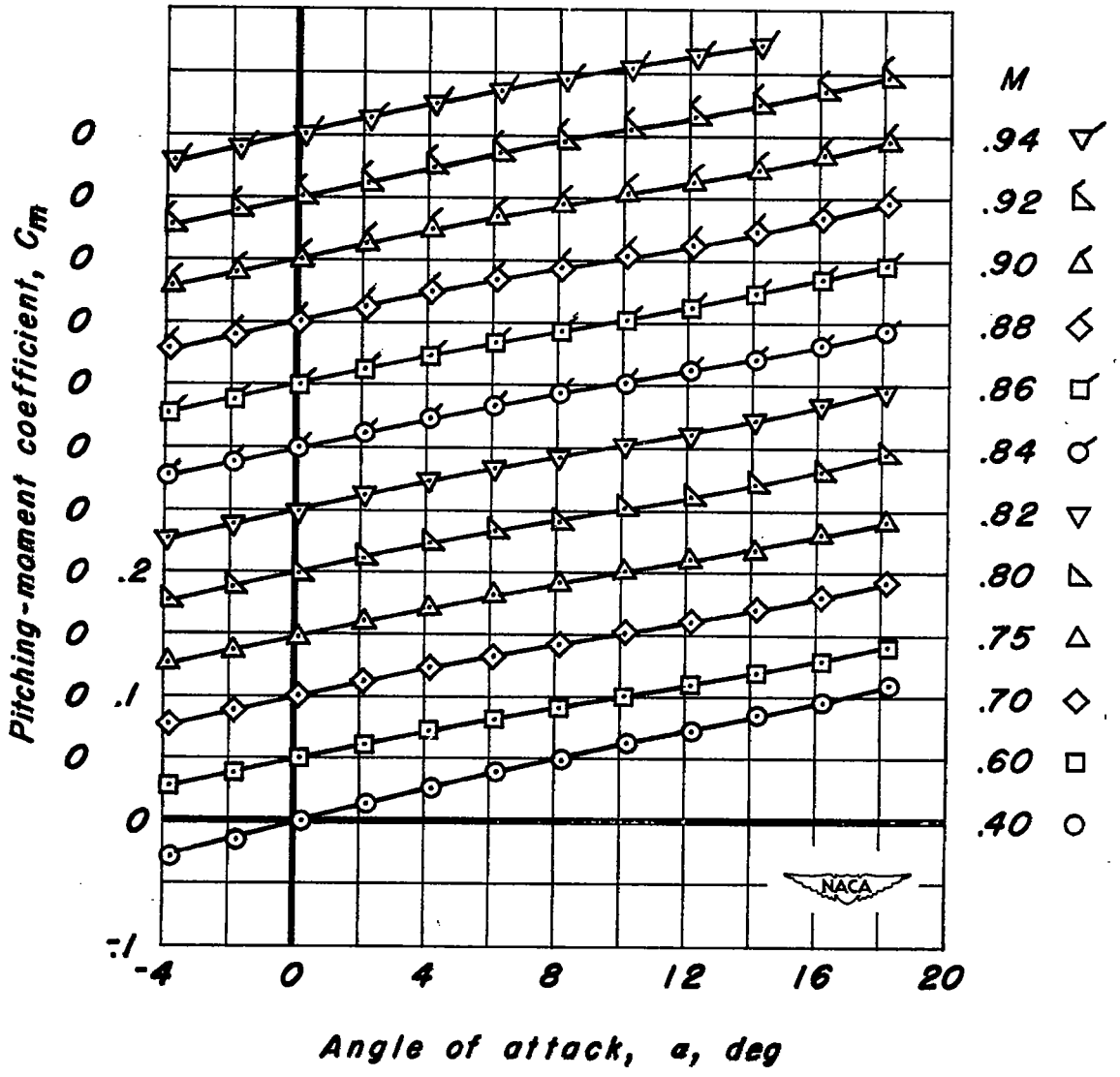


(a) Lift.

(b) Drag.

Figure 11.—Aerodynamic characteristics of the fuselage.



(c) Pitching moment.

Figure 11.—Concluded.

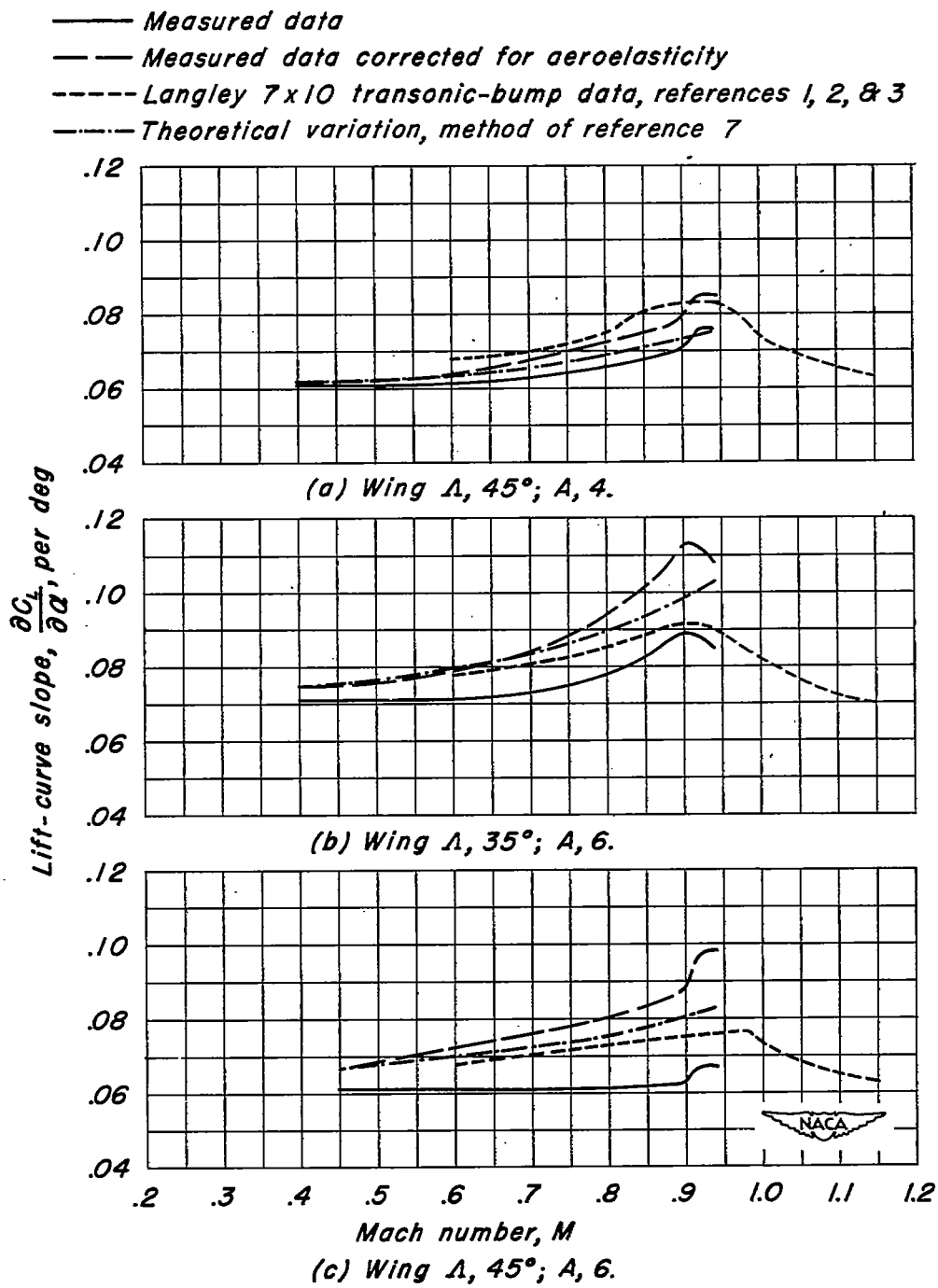


Figure 12.–Effect of Mach number on the lift-curve slopes of the three wing-fuselage combinations. C_L, 0.2.

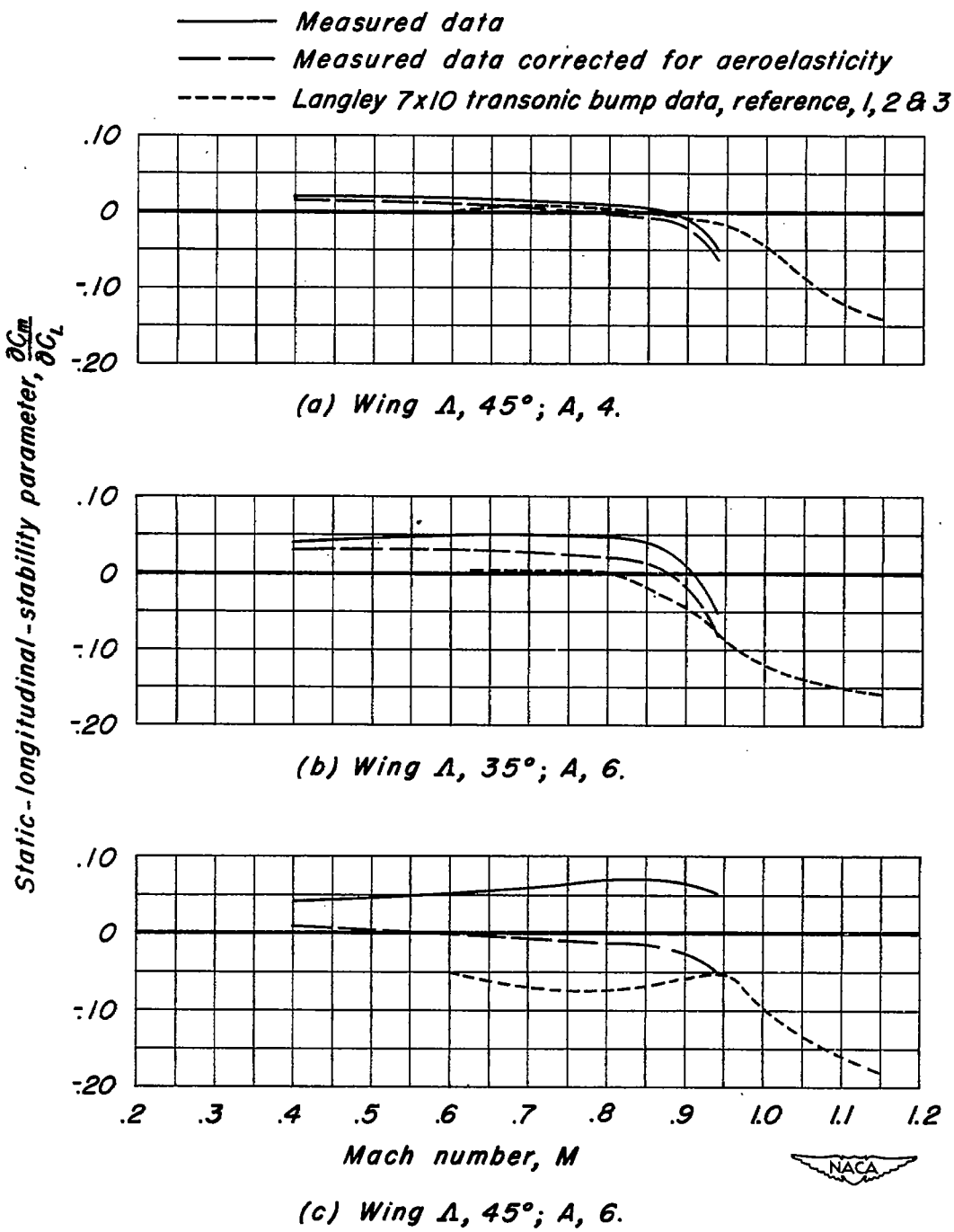


Figure 13.–Effect of Mach number on the stability parameter $\frac{\partial C_m}{\partial C_L}$ of the three wing-fuselage combinations. C_L, 0.2.

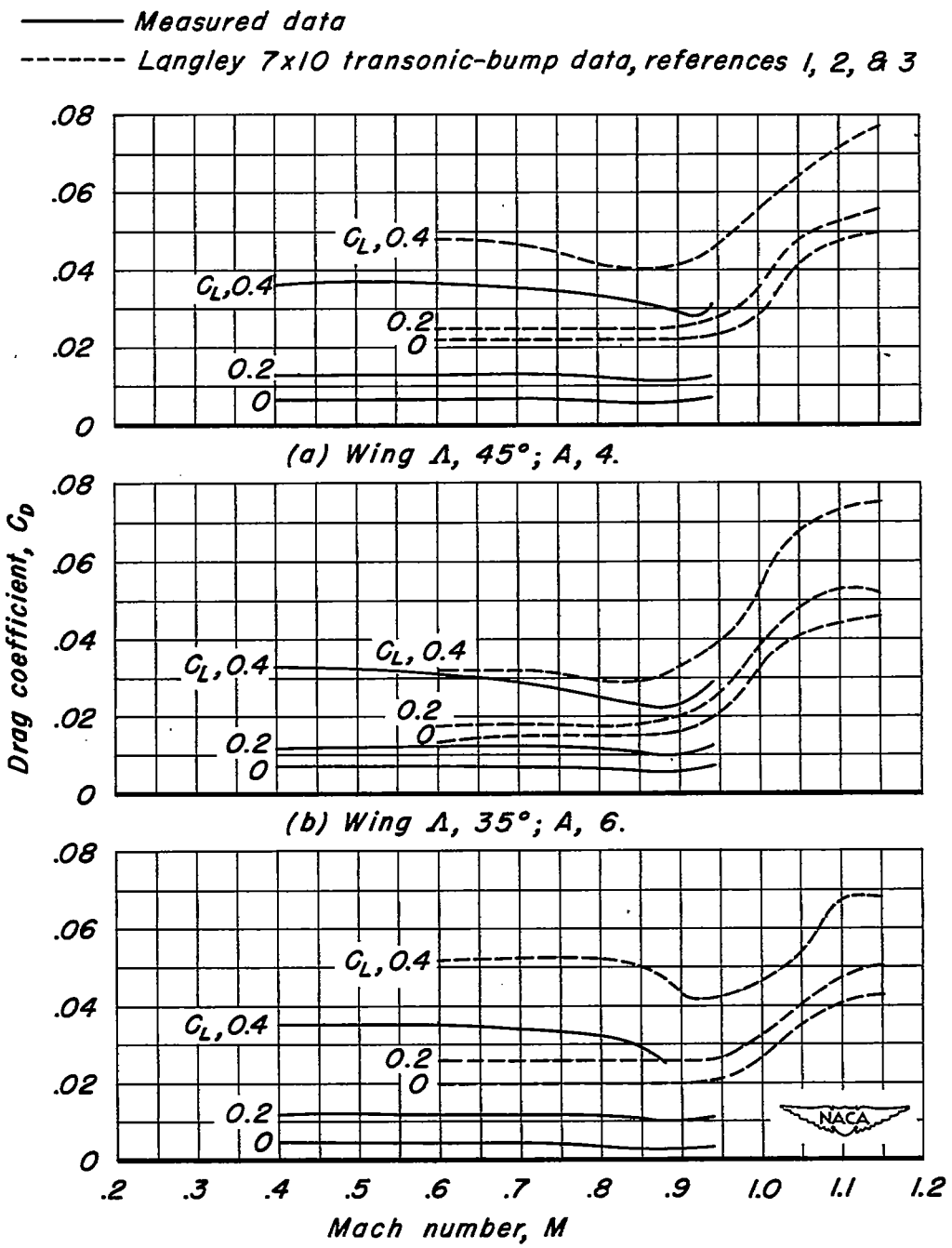
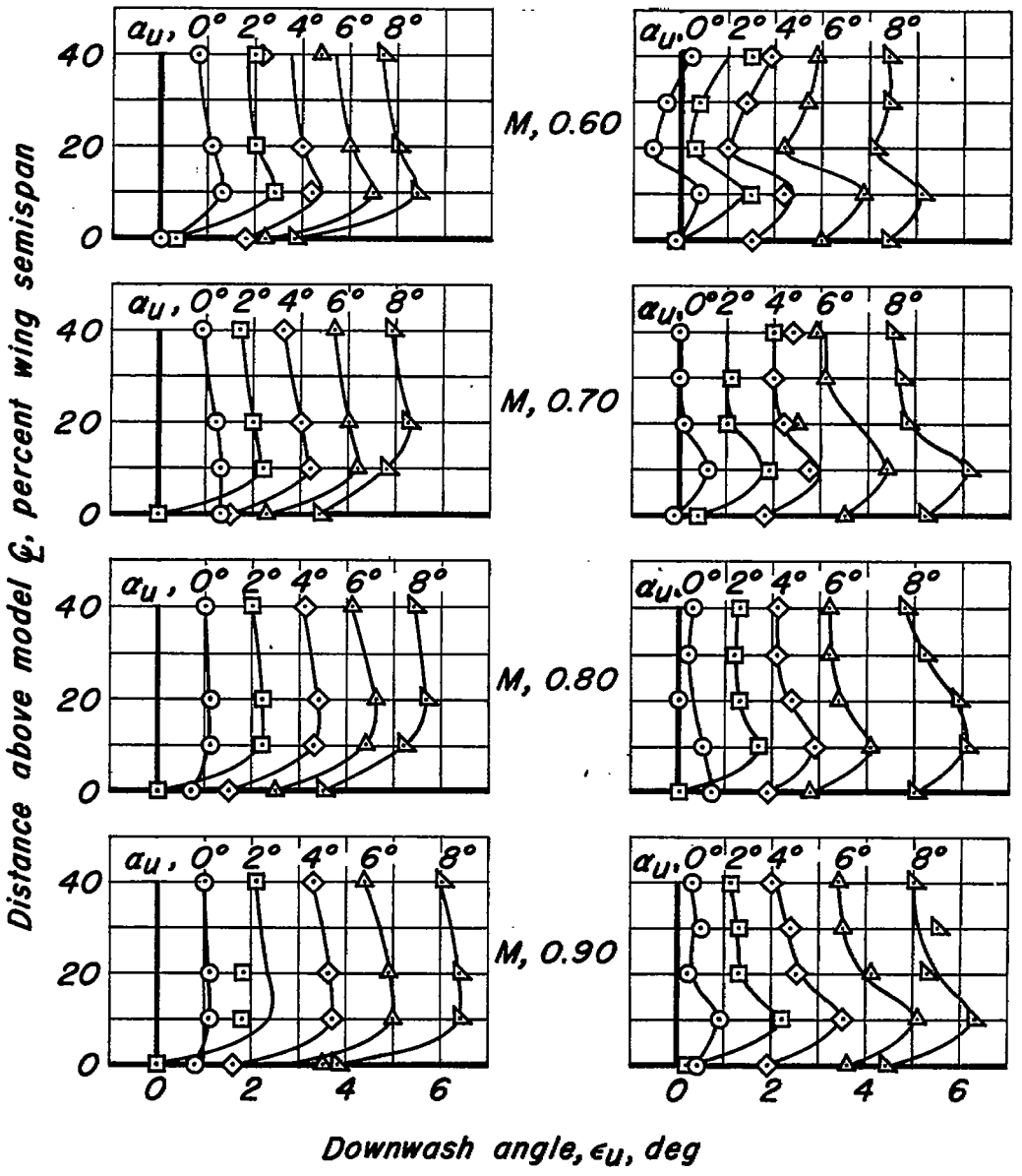


Figure 14.—Effect of Mach number on the drag characteristics of the three wing-fuselage combinations.

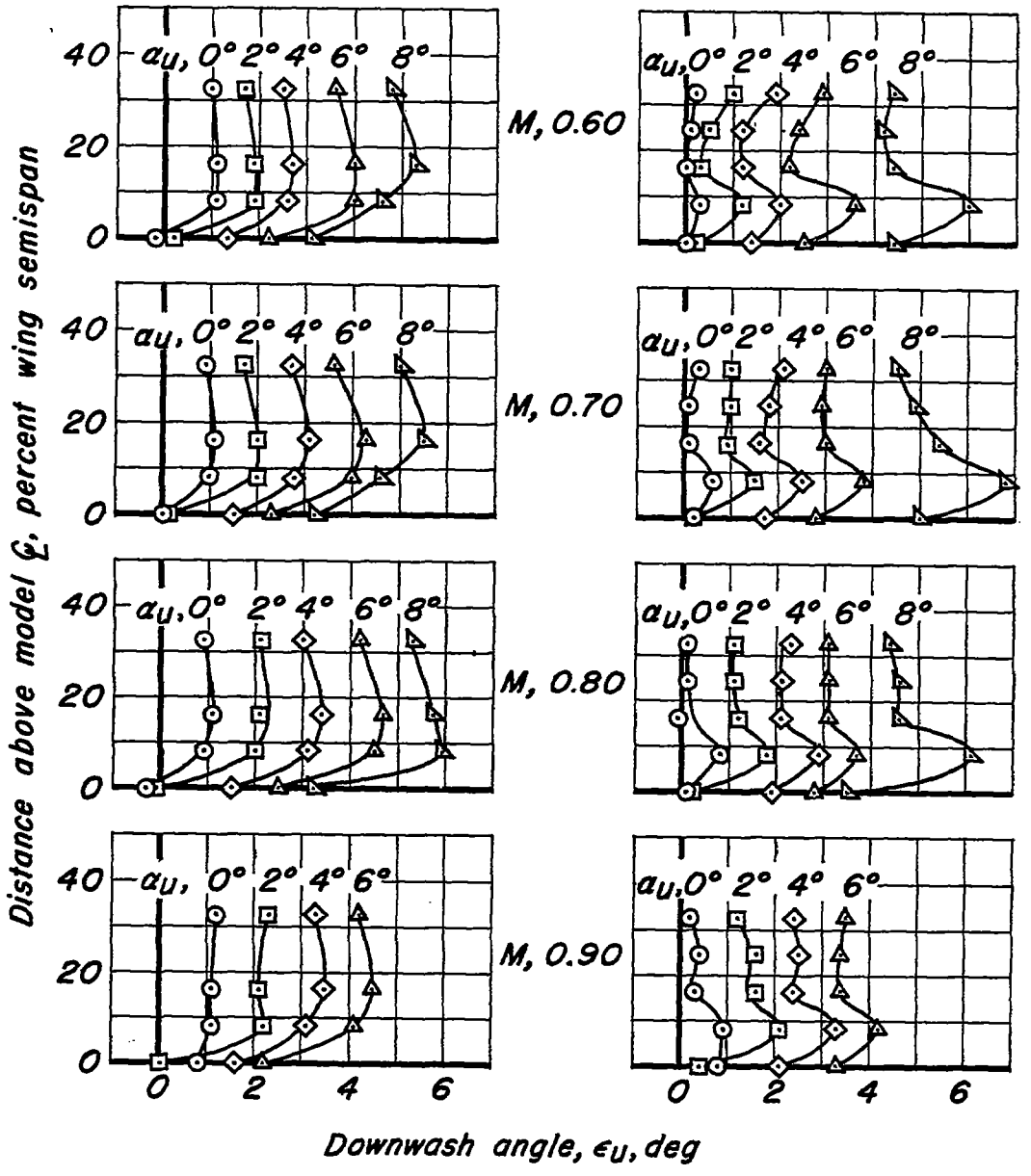


0.200 semispan from plane of symmetry

0.400 semispan from plane of symmetry

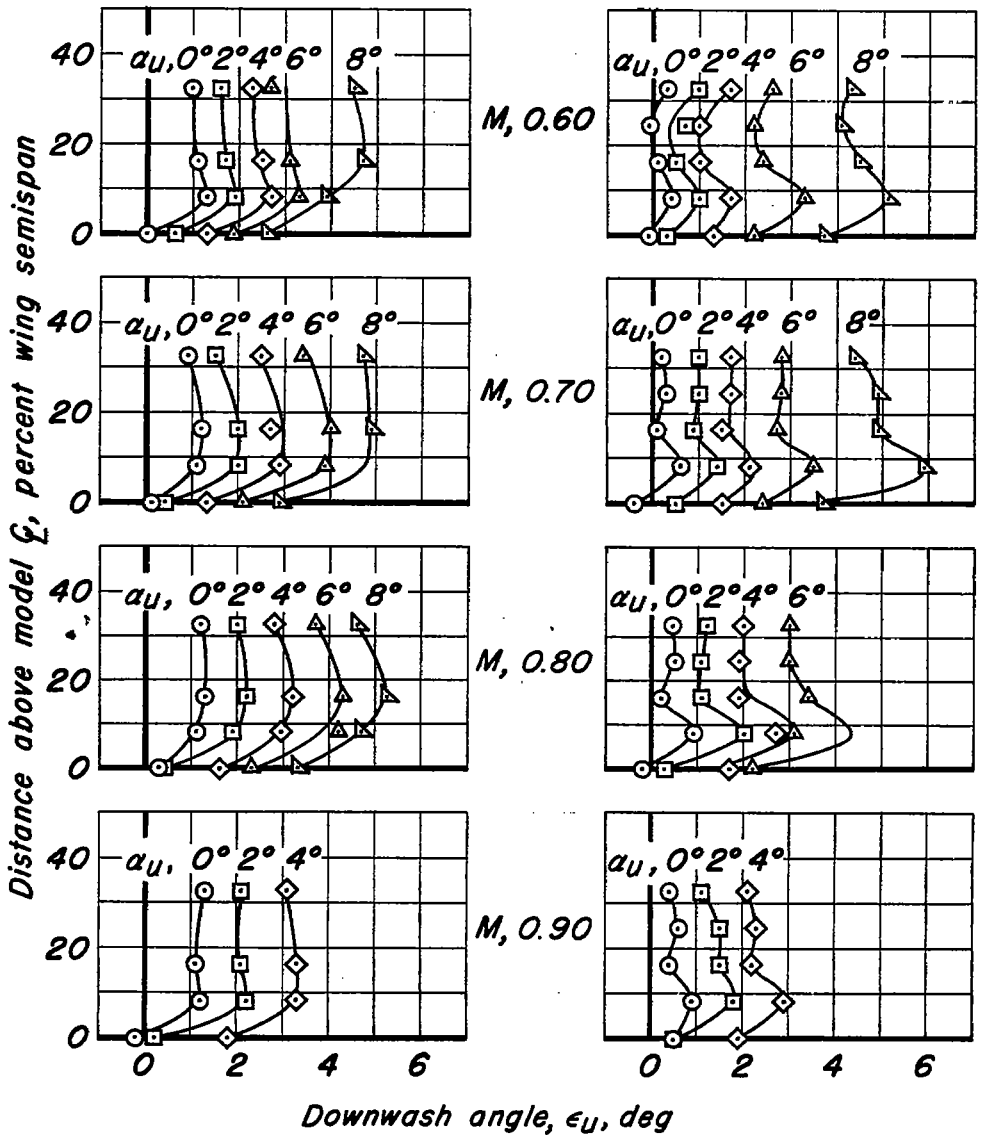
(a) Wing Λ, 45° ; A, 4.

Figure 15.–Downwash angles at possible horizontal-tail locations for the three wing-fuselage combinations.



(b) Wing Λ, 35°; A, 6.

Figure 15.—Continued.



0.163 semispan from plane of symmetry

0.376 semispan from plane of symmetry

(c) Wing Λ, 45°; A, 6.

Figure 15.—Concluded.

	Wake measurements	
	Wing	% semispan
———	Λ, 45°; A, 4	40.0
- - - - -	Λ, 35°; A, 6	32.6
—·—	Λ, 45°; A, 6	32.6

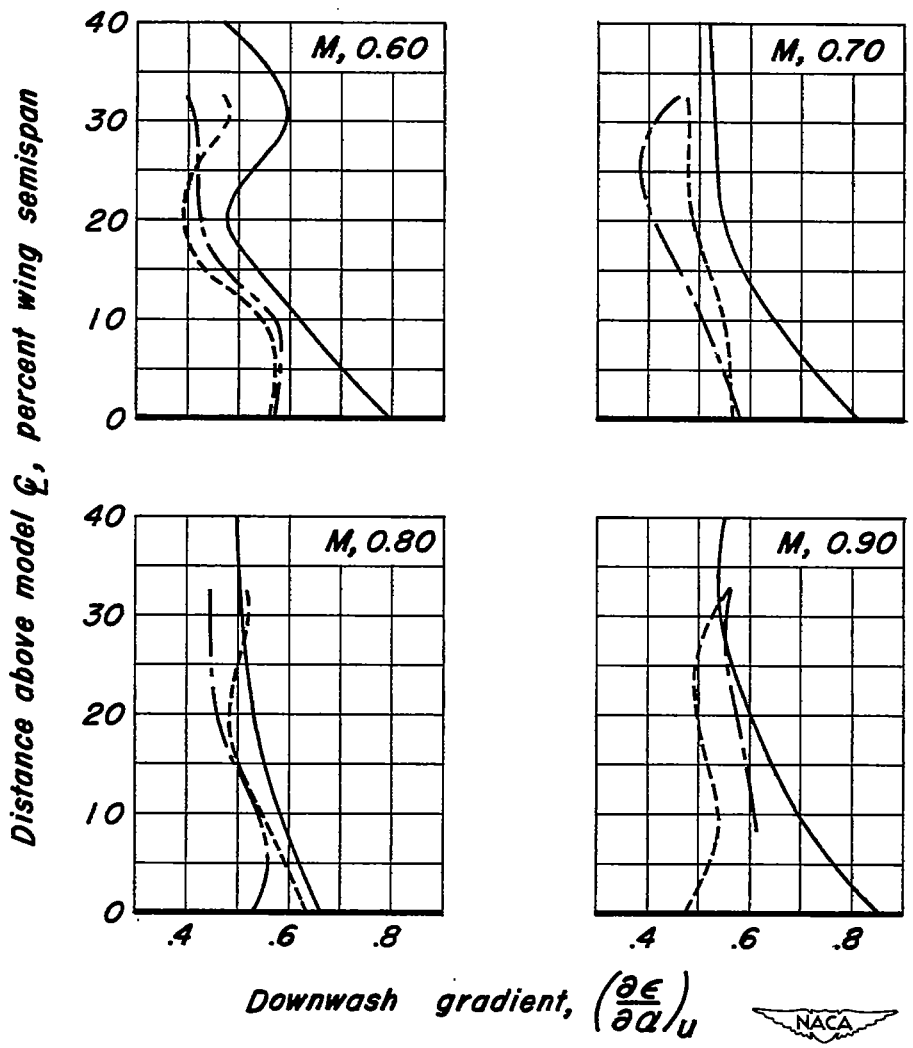
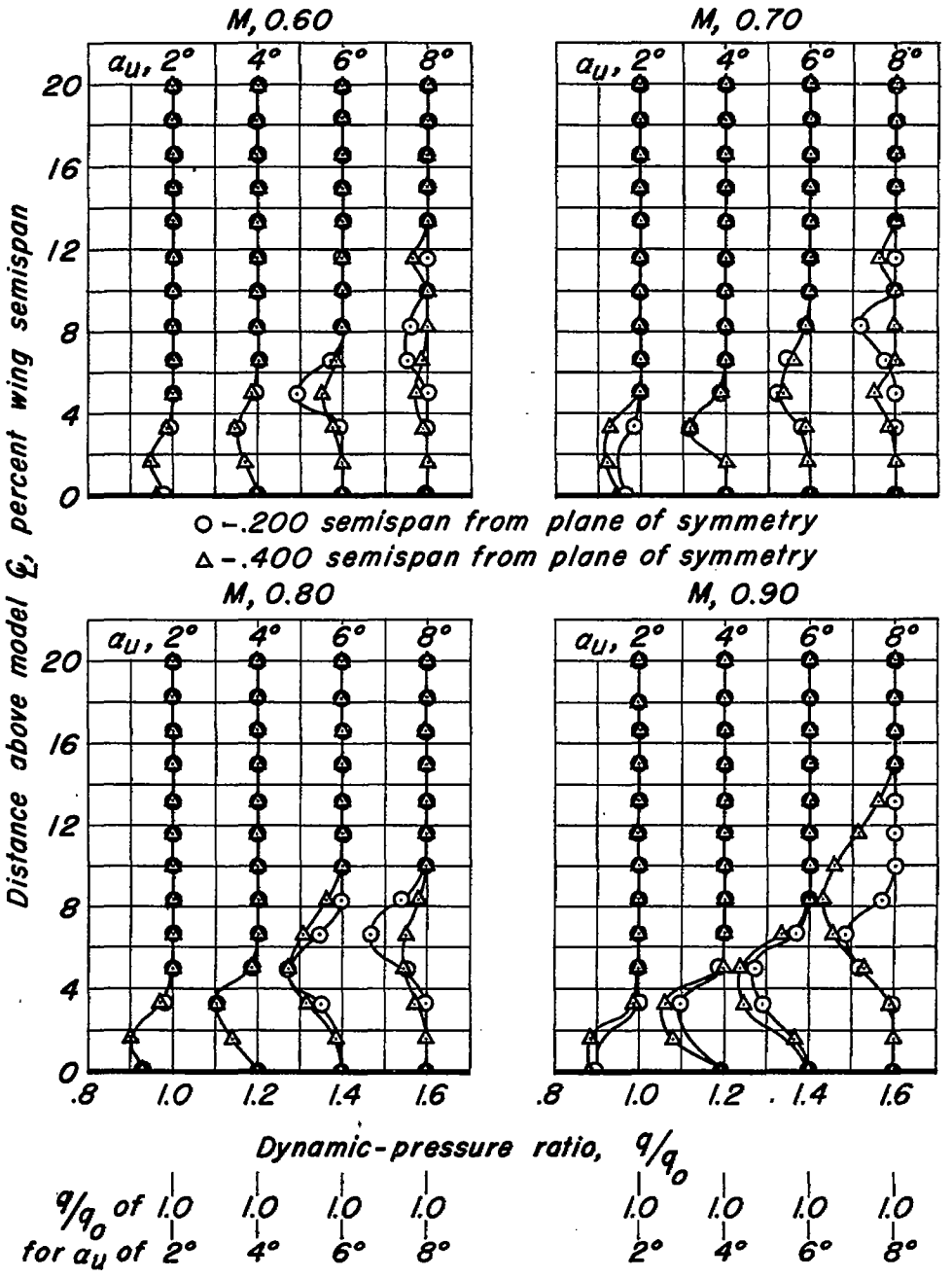
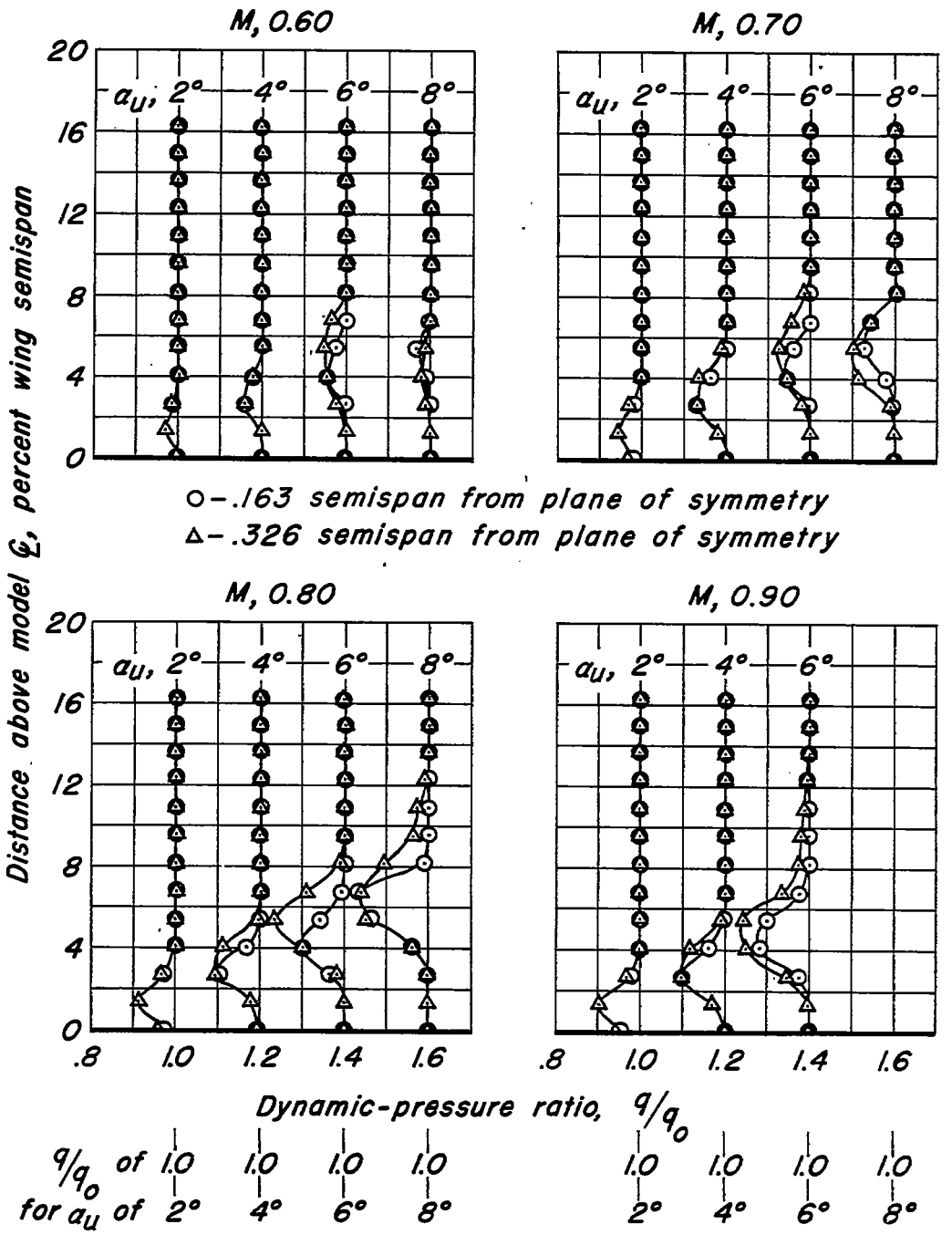


Figure 16.-Downwash gradients for the three wing-fuselage combinations, measured 12 inches from plane of symmetry. C_L, 0.2.



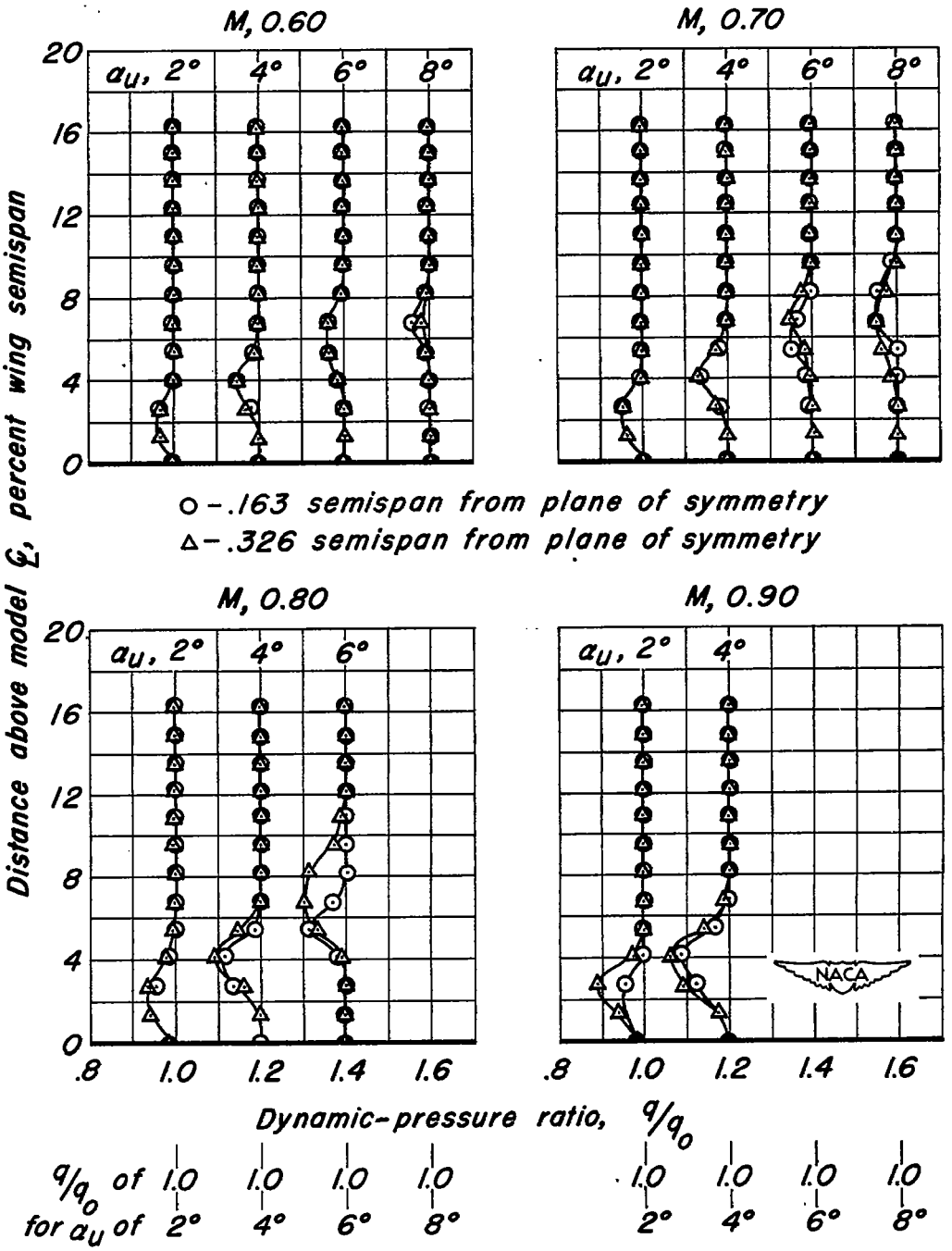
(a) Wing Λ, 45°; A, 4.

Figure 17.-Dynamic pressures at possible horizontal-tail locations for the three wing-fuselage combinations.



(b) Wing Λ, 35°; A, 6.

Figure 17.—Continued.



(c) Wing Λ, 45°; A, 6.

Figure 17.—Concluded.

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α_u, 4°.

α_u, 2°.

α_u, 4°.

α_u, 6°.

α_u, 8°.

α_u, 6°.

α_u, 8°.

(a) M, 0.70

(b) M, 0.75.

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Figure 18.– Photographs of tufts on the wing-fuselage combination. Wing Λ, 45°; A,4.

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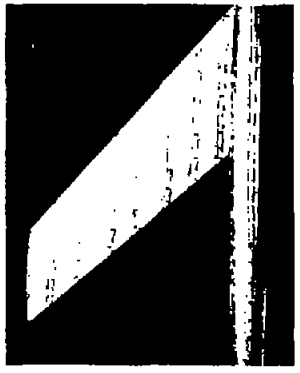
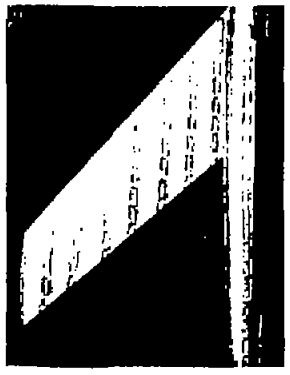
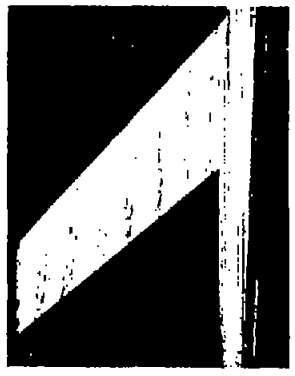
α_u, 2°.



α_u, 4°.

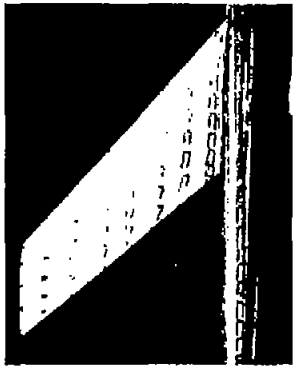


α_u, 2°.

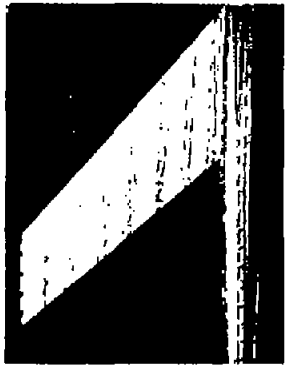


α_u, 4°.

α_u, 6°.



α_u, 8°.



α_u, 6°.

α_u, 8°.

(c) M, 0.86.

(d) M, 0.90.

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Figure 18.– Concluded.

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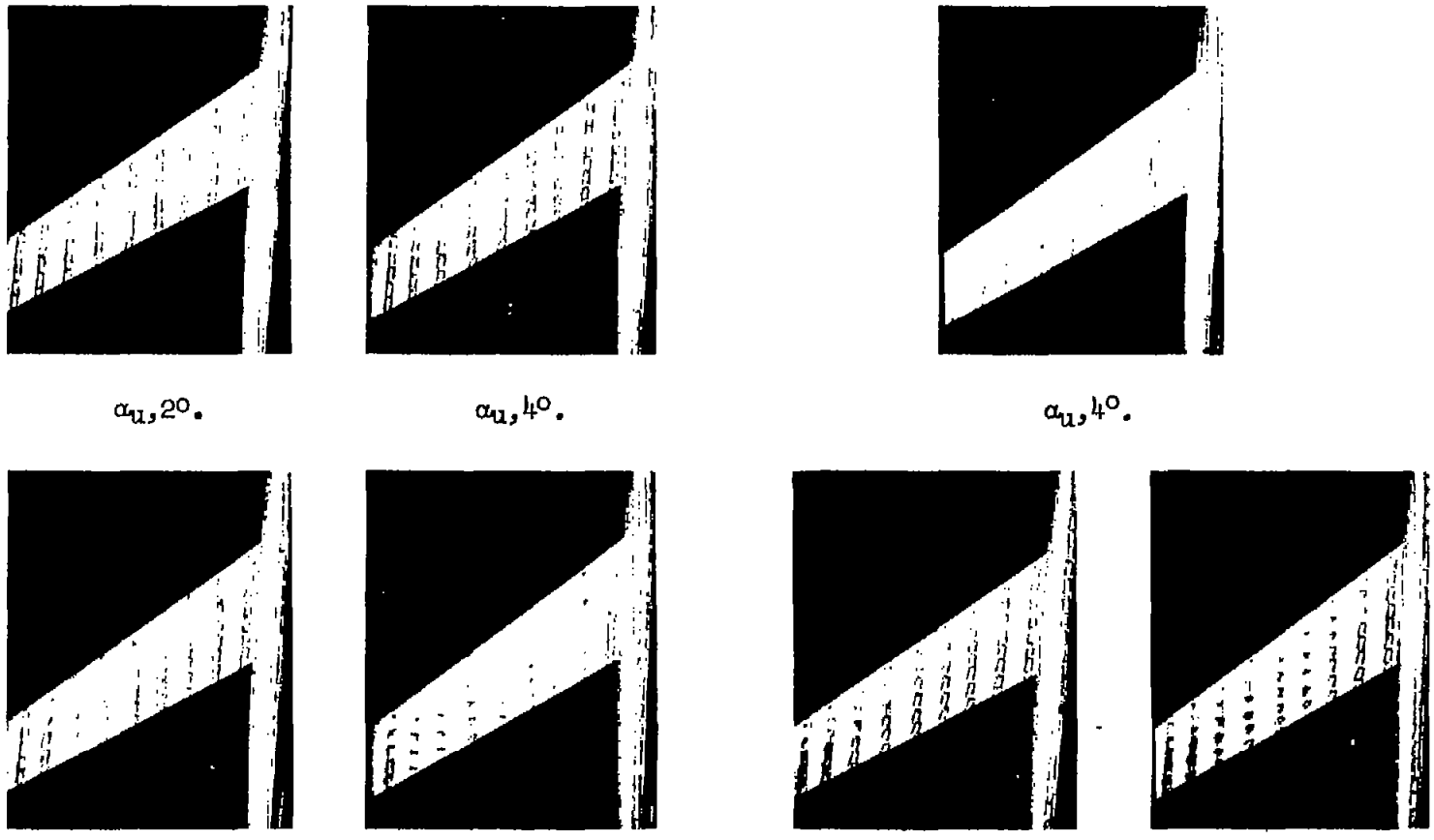

α_u, 2°. α_u, 4°. α_u, 4°.

α_u, 6°. α_u, 8°. α_u, 6°. α_u, 8°.

(a) M, 0.70. (b) M, 0.75.

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Figure 19.– Photographs of tufts on the wing-fuselage combination. Wing A, 35°; A,6.

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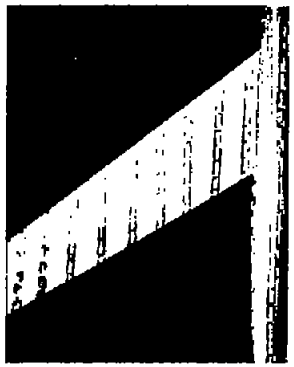
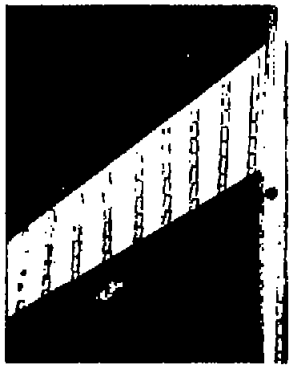
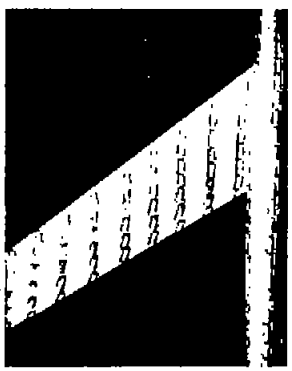


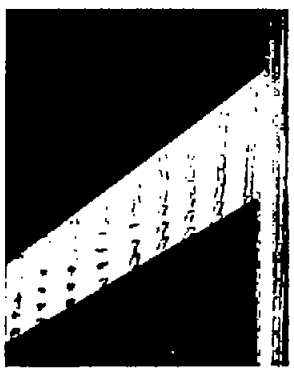
α_u, 2°.



α_u, 4°.

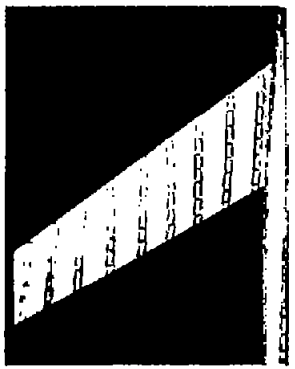


α_u, 6°.

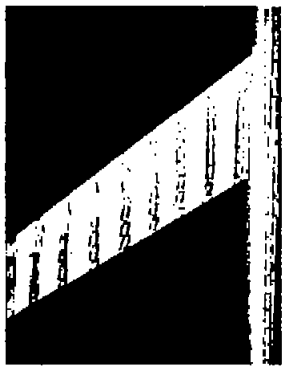


α_u, 7°.

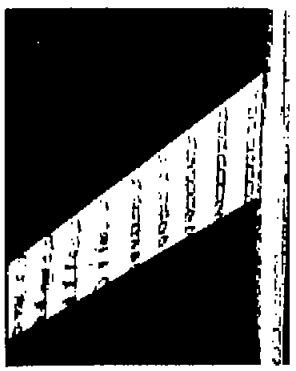
(c) M, 0.86.



α_u, 2°.



α_u, 4°.



α_u, 6°.

(d) M, 0.90.

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Figure 19.- Concluded.

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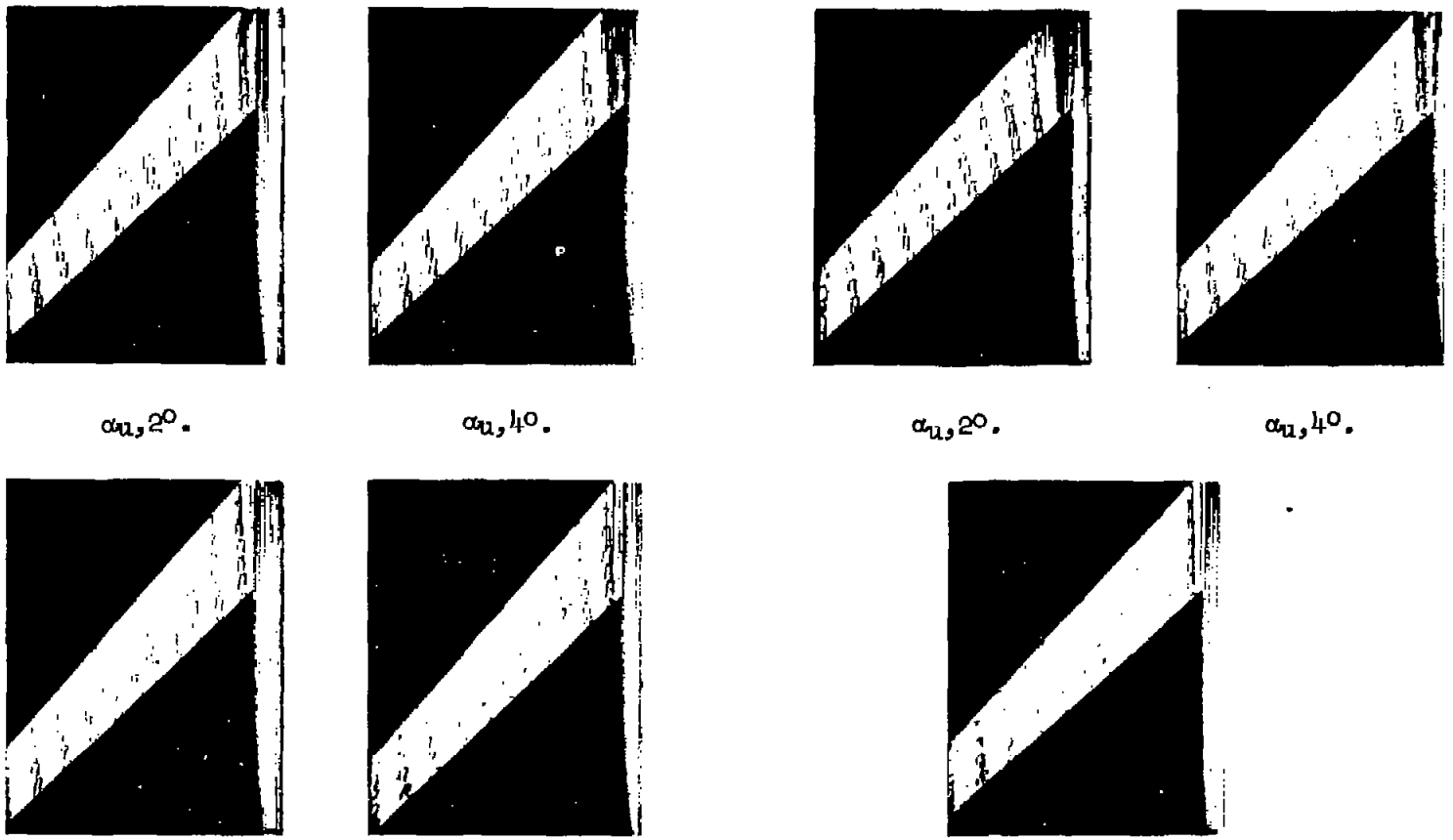

$\alpha_u, 2^\circ$. $\alpha_u, 4^\circ$. $\alpha_u, 6^\circ$. $\alpha_u, 8^\circ$.

(a) M, 0.70

$\alpha_u, 2^\circ$. $\alpha_u, 4^\circ$. $\alpha_u, 8^\circ$.

(b) M,0.75.

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A-15187

Figure 20.- Photographs of tufts on the wing-fuselage combination. Wing Λ, 45°; A,6.

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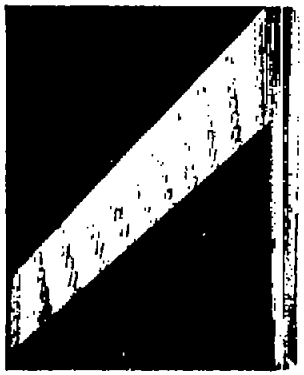
α_u, 2°.

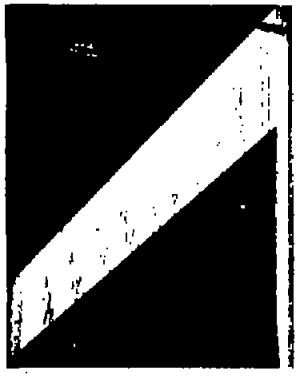


α_u, 4°.

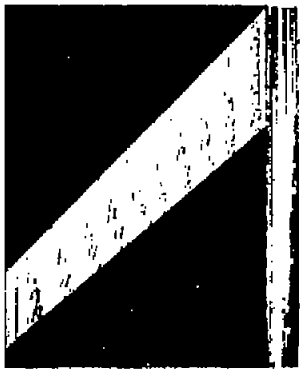
α_u, 6°.

(c) M, 0.86.

α_u, 2°.



α_u, 4°.



α_u, 6°.

(d) M, 0.90.

A-15188

Figure 20.– Concluded.

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NACA-Langley - 2-6-51 - 345