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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

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NATIONAL ADVISORY COMMITTEE
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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.

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.

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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	-0.023	0.070
	42.3	.055	-.007	.049	.013	.013	.007	.010	.016	.013	.065	-.020	-.053
	70.7	.049	-.007	.039	.013	.010	.007	.010	.013	.010	.049	-.023	.033
15	8.7	.036	-.013	.016	-.016	-.023	-.026	-.023	-.007	-.016	.033	-.030	.036
	42.3	.046	-.013	.016	-.016	-.000	-.026	-.020	-.016	-.016	.023	-.030	.020
	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	-.016	0	-.046	0
	70.7	-.013	-.029	-.016	-.020	-.033	-.030	-.026	-.023	-.023	-.010	-.053	-.026
25	8.7	-.007	-.029	-.016	-.006	-.030	-.030	-.026	-.023	-.020	-.010	-.040	-.003
	42.3	-.013	-.023	-.016	-.006	-.030	-.033	-.030	-.023*	-.020	-.013	-.046	-.023
	70.7	-.013	-.029	-.020	-.006	-.036	-.033	-.033	-.023	-.033	-.013	-.060	-.030
28.50	8.7	-.013	-.020	-.016	-.023	-.033	-.043	-.033	-.023	-.020	-.010	-.040	-.013
	42.3	-.013	-.020	-.016	-.023	-.033	-.043	-.033	-.023	-.020	-.010	-.043	-.020
	70.7	-.016	-.029	-.020	-.023	-.053	-.043	-.039	-.026	-.023	-.016	-.056	-.030
31.50	8.7	-.013	-.020	-.020	-.042	-.053	-.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	- - -	-.033	-.033	-.023	-.016	-.046	-.030
	70.7	-.020	-.020	-.023	-.023	- - -	- - -	-.030	-.023	-.023	-.016	-.046	-.030
41.50	8.7	-.013	-.029	-.016	-.026	- - -	-.059	-.033	-.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	-.046	-.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	-.046	-.019	-.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	- - -	-.036	- - -
	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	-.020	-.033	-.053	-.056	-.030	-.033	-.023	-.026	-.036	-.030
	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	-.039	-.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	-.035
	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	0.052	-0.023	0.144	-0.033	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	-.036	.043	-.059	.046	-.084	.036	-.094	.042	-.118	.036	-.126	.055
15	8.7	-.036	.056	-.052	.085	-.056	.102	-.049	.140	-.049	.174	-.052	.197
	42.3	-.046	.036	-.052	.059	-.069	.059	-.081	.081	-.086	.092	-.097	.126
	70.7	-.056	.010	-.079	.013	-.095	.003	-.094	.010	-.122	.010	-.106	0
20	8.7	-.053	.016	-.052	.062	-.062	.069	-.055	.107	-.049	.141	-.029	.158
	42.3	-.056	.010	-.059	.039	-.079	.036	-.081	.059	-.092	.072	-.100	.094
	70.7	-.072	-.016	-.083	-.016	-.108	-.026	-.104	-.021	-.118	-.026	-.139	-.019
25	8.7	-.056	.010	-.043	.045	-.056	.052	-.039	.075	-.039	.066	-.019	.142
	42.3	-.062	-.007	-.059	.013	-.079	.010	-.081	.042	-.105	.069	-.106	.061
	70.7	-.082	-.020	-.089	-.020	-.095	-.036	-.091	-.039	-.105	-.033	-.100	-.061
28.50	8.7	-.049	.010	-.036	.030	-.052	.036	-.039	.075	-.030	.082	-.029	.116
	42.3	-.053	-.016	-.052	.013	-.069	.003	-.081	.036	-.115	.072	-.116	.061
	70.7	-.072	-.023	-.079	-.026	-.089	-.056	-.088	-.046	-.099	-.062	-.097	-.061
31.50	8.7	-.053	-.007	-.045	.013	-.046	.036	-.039	.059	-.033	.076	-.029	.077
	42.3	-.056	-.023	-.052	-.013	-.069	-.003	-.085	.010	-.115	.013	-.106	.045
	70.7	-.072	-.030	-.075	-.046	-.089	-.056	-.088	-.055	-.062	-.072	-.094	-.065
34.50	8.7	-.023	-.020	-.020	.016	-.030	.030	-.023	.042	-.023	.076	-.003	.097
	42.3	-.053	-.023	-.052	-.007	-.059	-.003	-.081	.010	-.079	.013	-.100	.035
	70.7	-.056	-.039	-.056	-.049	-.069	-.062	-.081	-.055	-.082	-.082	-.094	-.071
38.00	8.7	-.030	- - -	-.020	- - -	-.030	- - -	-.023	- - -	-.026	- - -	-.032	- - -
	42.3	-.046	-.023	-.052	-.013	-.072	-.026	-.088	.003	-.115	.010	-.103	.029
	70.7	-.056	-.039	-.052	-.046	-.069	-.062	-.062	-.055	-.082	-.072	-.084	-.071
41.50	8.7	-.062	-.020	-.026	.013	-.036	.010	-.029	.042	-.030	.069	-.032	.094
	42.3	-.046	-.023	-.046	-.013	-.069	-.023	-.081	-.007	-.105	.007	-.100	.026
	70.7	-.056	-.053	-.052	-.052	-.066	-.069	-.072	-.072	-.082	-.082	-.094	-.100
44.50	8.7	- - -	-.023	- - -	.007	- - -	.003	- - -	-.036	- - -	.043	- - -	.068
	42.3	-.046	-.023	-.052	-.016	-.075	-.023	-.088	-.007	-.105	.007	-.084	.026
	70.7	-.056	-.056	-.052	-.059	-.069	-.069	-.062	-.081	-.082	-.086	-.068	-.094
47.50	8.7	-.023	-.023	-.020	-.003	-.030	.003	-.023	.033	-.026	.043	-.029	.061
	42.3	-.016	-.023	-.013	-.020	-.030	-.026	-.039	-.013	-.053	-.007	-.042	.003
	70.7	-.053	-.060	-.052	-.059	-.062	-.069	-.062	-.081	-.082	-.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	-.089	-.094	-.088	-.072	-.105	-.071	-.100
53.50	8.7	- - -	-.023	- - -	-.020	- - -	-.013	- - -	.010	- - -	.016	- - -	.045
	42.3	-.046	-.007	-.052	-.036	-.079	-.036	-.081	-.023	-.082	-.023	-.094	-.003
	70.7	-.049	-.072	-.052	-.069	-.062	-.089	-.062	-.088	-.066	-.115	-.071	-.100
56.50	8.7	-.030	-.045	-.020	-.036	-.036	-.029	-.029	.019	-.053	.023	-.051	.035
	42.3	-.046	-.052	-.046	-.055	-.072	-.052	-.078	-.029	-.086	-.029	-.077	-.029
	70.7	-.052	-.068	-.055	-.058	-.055	-.088	-.045	-.077	-.052	-.094	-.070	-.109
59.50	8.7	-.029	-.029	-.036	-.029	-.036	-.013	-.039	.019	-.039	.023	-.045	.035
	42.3	-.045	-.055	-.058	-.055	-.062	-.055	-.052	-.029	-.071	-.029	-.077	-.019
	70.7	-.055	-.068	-.055	-.078	-.058	-.088	-.045	-.077	-.061	-.084	-.073	-.115

NACA

TABLE I.– CONTINUED

(b) M,0.60.

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	0.077	0.010	0.069	0.020	0.044	0.035	0.017	0.043	0.005	0.068	-0.018	0.087
	42.3	.067	.012	.060	.020	.039	.035	.013	.042	.002	.060	-.015	.072
	70.7	.055	.012	.060	.020	.035	.032	.017	.035	.010	.045	-.018	.052
15	8.7	.044	-.012	.035	.002	.013	.010	-.007	.013	-.020	.037	-.037	.052
	42.3	.034	-.017	.032	-.002	.010	.007	-.007	.177	-.022	.018	-.042	.032
	70.7	.027	-.013	.023	-.002	.012	.008	-.005	.177	-.020	.012	-.045	.010
20	8.7	.017	-.030	.010	-.018	-.007	-.007	-.023	-.007	-.037	.010	-.049	.020
	42.3	.010	-.029	.005	-.018	-.008	-.010	-.025	-.015	-.040	-.002	-.054	.005
	70.7	-.002	-.034	0	-.029	-.013	-.018	-.028	-.022	-.040	-.012	-.062	-.015
25	8.7	0	-.017	.002	-.023	-.020	-.022	-.037	-.023	-.040	-.007	-.049	.002
	42.3	-.007	-.017	-.002	-.025	-.025	-.022	-.040	-.023	-.045	-.017	-.060	-.015
	70.7	-.018	-.037	-.018	-.023	-.023	-.023	-.040	-.025	-.048	-.023	-.065	-.032
28.50	8.7	-.003	-.030	-.002	-.017	-.022	-.020	-.038	-.023	.040	-.007	-.052	-.002
	42.3	-.012	-.030	-.002	-.017	-.023	-.022	-.040	-.023	.040	-.015	-.057	-.015
	70.7	-.020	-.035	-.015	-.023	-.023	-.023	-.040	-.032	-.043	-.028	-.065	-.032
31.50	8.7	-.012	-.034	-.015	-.022	-.025	-.023	-.040	-.030	-.040	-.022	-.050	-.015
	42.3	-.020	-.037	-.015	-.022	-.023	-.023	-.042	-.030	-.048	-.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	-.010	-.022	-.023	-.023	-.023	-.020	-.032	-.015
	42.3	-.015	-.029	-.013	-.015	-.023	-.022	-.037	-.025	-.037	-.022	-.049	-.022
	70.7	-.022	-.032	-.015	-.015	-.023	-.023	-.038	-.033	-.040	-.027	-.055	-.040
38.00	8.7	-.012	- - -	-.012	- - -	-.023	- - -	-.040	- - -	-.037	- - -	-.047	- - -
	42.3	-.025	-.034	-.017	-.027	-.027	-.023	-.040	-.033	-.040	-.027	-.052	-.032
	70.7	-.020	-.030	-.013	-.018	-.020	-.022	-.033	-.025	-.037	-.025	-.049	-.039
41.50	8.7	-.017	-.032	-.012	-.020	-.023	-.023	-.033	-.035	-.032	-.023	-.045	-.027
	42.3	-.024	-.032	-.018	-.020	-.027	-.023	-.035	-.035	-.038	-.028	-.049	-.035
	70.7	-.034	-.034	-.020	-.020	-.023	-.023	-.038	-.035	-.040	-.035	-.054	-.049
44.50	8.7	- - -	-.029	- - -	-.018	- - -	-.023	- - -	-.033	- - -	-.023	- - -	-.025
	42.3	-.029	- - -	-.017	-.017	-.032	-.023	-.040	-.032	-.040	-.023	-.049	-.032
	70.7	-.037	-.037	-.018	-.018	-.029	-.029	-.040	-.040	-.040	-.040	-.052	-.050
47.50	8.7	-.017	-.029	-.013	-.017	-.022	-.023	.035	-.028	-.025	-.023	-.032	-.029
	42.3	.010	-.024	.020	-.013	.012	-.023	.002	-.028	.002	-.023	.002	-.032
	70.7	-.032	-.034	-.017	-.015	-.023	-.023	-.037	-.033	-.037	-.035	-.049	-.049
50.50	8.7	-.034	- - -	-.018	- - -	-.032	- - -	-.040	- - -	-.038	- - -	-.047	- - -
	42.3	-.037	-.034	-.020	-.022	-.035	-.030	-.040	-.040	-.040	-.040	-.049	.049
	70.7	-.039	-.037	-.029	-.022	-.034	-.029	-.040	-.040	-.040	-.043	-.052	-.060
53.50	8.7	- - -	-.024	- - -	-.023	- - -	-.023	- - -	-.035	- - -	-.035	- - -	-.032
	42.3	-.034	-.029	-.018	-.020	-.030	-.023	-.038	-.038	-.037	-.038	-.049	-.047
	70.7	-.037	-.034	-.029	-.018	-.029	-.030	-.037	-.040	-.038	-.042	-.049	-.057
56.50	8.7	-.037	-.022	-.023	-.018	-.034	-.032	-.040	-.042	-.037	-.033	-.042	-.047
	42.3	-.039	-.022	-.029	-.018	-.037	-.032	-.042	-.042	-.038	-.042	-.049	-.052
	70.7	-.034	-.030	-.018	-.018	-.028	-.035	-.032	-.047	-.027	-.043	-.050	-.069
59.50	8.7	-.037	.012	-.022	.017	-.037	.017	-.040	.015	-.027	.023	-.042	.015
	42.3	-.037	-.022	-.023	-.034	-.037	-.022	-.034	-.034	-.027	-.035	-.042	-.052
	70.7	-.052	-.024	-.032	-.020	-.035	-.037	-.040	-.047	-.035	-.045	-.050	-.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	-0.020	0.116	-0.035	0.139	-0.037	0.173	-0.049	0.034	0.109	0.237	-0.065	0.270
	42.3	.020	.089	-.045	.106	-.052	.136	-.069	.149	-.015	.168	-.131	.186
	70.7	-.032	.068	-.065	.060	-.082	.055	-.101	.035	-.133	.206	-.166	.029
15	8.7	-.035	.072	-.057	.102	-.054	.136	-.052	.153	-.064	.183	-.065	.220
	42.3	-.045	.065	-.064	.053	-.064	.040	-.089	.094	-.114	.111	-.149	.136
	70.7	-.062	.015	-.082	.010	-.096	.018	-.114	.005	-.133	.002	-.149	-.015
20	8.7	-.045	.055	-.060	.064	-.086	.087	-.054	.111	-.062	.139	-.074	.171
	42.3	-.049	.022	-.079	.032	-.079	.069	-.092	.064	-.124	.082	-.166	.094
	70.7	-.067	-.018	-.096	-.020	-.107	-.023	-.116	-.029	-.133	-.040	-.149	-.052
25	8.7	-.037	.102	-.062	-.035	-.057	-.055	-.052	.084	-.062	.104	-.077	.136
	42.3	-.062	.002	-.081	.005	-.079	-.027	-.097	.035	-.126	.062	-.153	.060
	70.7	-.073	-.029	-.091	-.029	.102	.023	-.107	-.049	-.124	-.062	-.146	-.076
28.50	8.7	-.045	.018	-.049	.052	-.029	.055	-.049	.070	-.054	.102	-.070	.128
	42.3	-.049	.002	-.079	.005	-.074	.020	-.091	.030	-.116	.037	-.149	.052
	70.7	-.065	-.034	-.094	-.049	-.086	-.032	-.099	-.052	-.116	-.065	-.136	-.082
31.50	8.7	-.049	.002	-.054	-.067	-.037	.044	-.049	.055	-.060	.086	-.082	.111
	42.3	-.049	-.015	-.065	-.003	-.074	.002	-.096	.005	-.122	.020	-.149	.035
	70.7	-.064	-.029	-.082	-.037	-.082	-.049	-.089	-.062	-.116	-.065	-.133	-.097
34.50	8.7	-.023	.002	-.029	.013	-.023	.035	-.032	.052	-.032	.077	-.057	.102
	42.3	-.049	-.015	-.062	-.012	-.065	.002	-.091	.003	-.116	.018	-.138	.035
	70.7	-.062	-.040	-.074	-.052	-.074	-.062	-.089	-.065	-.106	-.082	-.124	-.099
38.00	8.7	-.037	- - -	-.045	- - -	-.029	- - -	-.040	- - -	-.050	- - -	-.076	.086
	42.3	-.049	-.023	.065	-.023	-.074	-.002	-.094	.002	-.117	.007	-.149	.018
	70.7	-.032	-.049	.065	-.062	-.070	-.054	-.079	-.065	-.089	-.082	-.116	-.107
41.50	8.7	-.037	-.007	-.029	.002	-.023	.020	-.034	.035	-.049	.054	-.065	.086
	42.3	-.047	-.030	-.057	.009	-.069	-.012	-.070	-.013	-.116	.009	-.141	.003
	70.7	-.052	-.049	-.062	.057	-.074	-.074	.002	-.082	-.099	-.099	-.124	-.116
44.50	8.7	- - -	-.013	- - -	.002	- - -	.018	- - -	.032	- - -	-.052	-.082	.079
	42.3	-.049	-.029	-.049	-.020	-.074	-.015	-.096	-.013	-.116	-.002	-.141	.003
	70.7	-.054	-.052	-.065	-.074	-.065	-.065	-.081	-.082	-.096	-.099	-.116	-.121
47.50	8.7	-.032	-.013	-.023	.002	-.023	.018	-.032	.029	-.049	.052	-.065	.069
	42.3	.002	-.030	-.015	-.020	-.023	-.015	-.047	-.015	-.064	-.005	-.082	.002
	70.7	-.079	-.049	-.060	-.069	-.065	-.074	-.076	-.082	-.091	-.102	-.111	-.121
50.50	8.7	-.040	- - -	-.029	- - -	-.045	- - -	-.049	- - -	-.065	- - -	-.079	- - -
	42.3	-.047	-.042	-.062	-.045	-.074	-.032	-.097	-.032	-.116	-.020	-.133	.015
	70.7	-.049	-.064	-.065	-.081	-.070	-.082	.002	-.099	-.094	-.116	-.133	.133
53.50	8.7	- - -	-.023	- - -	-.015	- - -	.002	- - -	.003	- - -	.094	- - -	.049
	42.3	-.045	-.043	-.062	-.030	-.074	-.023	-.091	-.032	-.114	-.032	-.131	-.015
	70.7	-.049	-.062	-.057	-.079	-.062	-.082	-.070	-.099	-.082	-.116	-.104	-.136
56.50	8.7	-.023	-.018	-.023	-.022	-.023	-.008	-.049	.007	-.064	.030	-.081	-.118
	42.3	-.032	-.035	-.045	-.040	-.082	-.042	-.094	-.038	-.104	-.025	-.133	-.018
	70.7	-.035	-.053	-.043	-.078	-.050	-.092	-.060	-.098	-.070	-.118	-.085	-.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	-.039	-.056	-.047	-.099	-.033	-.092	-.068	-.105	-.080	-.119	-.098	-.136

NACA

TABLE I.– CONTINUED

(c) M,0.70.

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	0.075	0.005	0.046	0.012	0.031	0.020	0.024	0.046	0	0.077	-0.005	0.092
	42.3	.064	.005	.042	.015	.028	.020	.021	.047	.004	.067	-.005	.078
	70.7	.056	.005	.036	.009	.024	.018	.019	.035	.007	.053	-.008	.059
15	8.7	.037	-.013	.015	-.015	.001	-.009	-.005	.008	-.023	.053	-.031	.055
	42.3	.035	-.027	.012	-.023	.007	-.012	.005	-.001	-.020	.026	-.031	.035
	70.7	.022	-.026	.004	-.015	-.005	-.012	-.007	-.003	-.020	.013	-.032	.015
20	8.7	.008	-.033	-.012	-.038	-.023	-.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	-.032	-.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	-.039	-.036	-.031	-.040	-.013	-.047	-.012
	70.7	-.033	-.046	-.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	-.028	-.053	-.026
	70.7	-.039	-.046	-.045	-.046	-.050	-.049	-.046	-.035	-.046	-.030	-.057	-.032
34.50	8.7	-.008	-.033	-.026	-.039	-.030	-.039	-.030	-.032	-.030	-.016	-.032	-.005
	42.3	-.030	-.033	-.036	-.039	-.039	-.038	-.035	-.032	-.040	-.027	-.039	-.019
	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	-.046	-.035	-.044	-.030	-.046	-.031
	70.7	-.033	-.038	-.036	-.039	-.039	-.039	-.032	-.032	-.040	-.030	-.044	-.032
41.50	8.7	-.022	-.034	-.036	-.041	-.039	-.047	-.039	-.032	-.032	-.027	-.036	-.019
	42.3	-.031	-.037	-.039	-.042	-.043	-.049	-.039	-.039	-.032	-.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	-.049	-.044	-.034	-.040	-.030	-.039	-.031
	70.7	-.039	-.045	-.042	-.046	-.050	-.050	-.044	-.044	-.040	-.043	-.049	-.053
47.50	8.7	-.026	-.033	-.036	-.039	-.039	-.039	-.032	-.034	-.030	-.027	-.032	-.018
	42.3	.004	-.033	-.001	-.038	-.007	-.038	.001	-.034	.004	-.030	.001	-.031
	70.7	-.034	-.033	-.039	-.039	-.039	-.039	-.035	-.034	-.032	-.032	-.043	-.040
50.50	8.7	-.039	- - -	-.046	- - -	-.051	- - -	-.046	- - -	-.036	- - -	-.032	- - -
	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	- - -	-.039	- - -	-.030	- - -	-.032
	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	-.039	-.043	-.055
56.50	8.7	-.046	-.037	-.050	-.046	-.051	-.055	-.046	-.046	-.032	-.043	-.032	-.043
	42.3	-.047	-.037	-.053	-.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	.003
	42.3	-.049	-.037	-.054	-.043	-.055	-.053	-.044	-.044	-.039	-.043	-.042	-.054
	70.7	-.062	-.028	-.061	-.049	-.061	-.055	-.046	-.046	-.043	-.056	-.045	-.069

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	-0.013	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	-.152	-.088	.179	-.120	.201
	70.7	-.027	.063	-.064	.058	-.075	.063	-.115	-.054	-.120	.058	-.019	.045
15	8.7	-.035	.081	-.053	.099	-.052	.129	-.090	.155	-.061	.193	-.066	.231
	42.3	-.042	.054	-.064	.065	-.070	.066	-.098	.094	-.104	.123	-.147	.139
	70.7	-.048	.026	-.084	.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	.026	-.057	-.038	-.048	.062	-.061	.077	-.057	.112	-.069	.139
	42.3	-.052	.009	-.074	.007	-.072	.024	-.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	.055	-.050	.071	-.050	.098	-.066	.130
	42.3	-.044	.001	-.070	.004	-.071	.021	-.101	.023	-.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	.085	-.076	.112
	42.3	-.052	-.013	-.066	-.009	-.072	.005	-.101	.007	-.115	.028	-.147	.042
	70.7	-.059	-.030	-.084	-.050	-.083	-.048	-.101	-.071	-.104	-.070	-.134	-.086
34.50	8.7	-.028	.012	-.036	.018	-.031	.032	-.034	.050	-.036	.078	-.047	.107
	42.3	-.042	-.008	-.061	-.009	-.062	.005	-.097	.007	-.106	.024	-.141	.036
	70.7	-.052	-.030	-.074	-.051	-.072	-.039	-.097	-.071	-.101	-.074	-.124	-.093
38.00	8.7	-.030	- - -	-.038	- - -	-.032	- - -	-.047	- - -	-.047	- - -	-.066	- - -
	42.3	-.022	-.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	-.028	-.003	-.036	.004	-.031	.021	-.046	.034	-.047	-.074	-.066	.085
	42.3	-.043	-.026	-.057	-.023	-.066	.012	-.100	-.013	-.111	.004	-.141	.015
	70.7	-.052	-.044	-.066	-.064	-.070	-.060	-.089	-.085	-.106	-.084	-.253	-.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	-.066	-.070	-.088	-.089	-.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	-.081	-.101	-.088	-.093	-.107	-.118
50.50	8.7	-.028	- - -	-.036	- - -	-.032	- - -	-.054	- - -	-.061	- - -	-.080	.096
	42.3	-.043	-.030	-.064	.039	-.069	-.032	-.108	-.034	-.115	-.016	-.134	-.012
	70.7	-.043	-.055	-.064	-.077	-.066	-.056	-.088	-.102	-.090	-.106	-.109	-.127
53.50	8.7	- - -	-.015	- - -	-.016	- - -	-.003	- - -	-.007	- - -	.031	-.089	.055
	42.3	-.035	-.035	-.061	-.038	-.070	-.032	-.098	-.034	-.101	-.020	-.123	-.012
	70.7	-.039	-.057	-.061	-.077	-.059	-.079	-.077	-.102	-.080	-.111	-.100	-.130
56.50	8.7	-.028	-.031	-.036	-.026	-.035	-.018	-.058	-.015	-.063	.022	-.077	.039
	42.3	-.039	-.044	-.064	-.050	-.044	-.049	-.098	-.047	-.101	-.035	-.120	-.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	.026
	42.3	-.032	-.043	-.063	-.051	-.070	-.049	-.096	-.054	-.096	-.039	-.111	-.028
	70.7	-.037	-.060	-.061	-.092	-.065	-.100	-.089	-.123	-.082	-.123	-.097	-.147

NACA

TABLE I.– CONTINUED

(d) M,0.75.

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	0.056	-0.014	0.056	0.007	0.038	0.037	0.009	0.040	0.002	0.070	-0.009	0.100
	42.3	.051	-.014	.050	.007	.036	.037	.009	.040	.002	.058	-.002	.087
	70.7	.041	-.011	.043	.007	.033	.029	.012	.030	.009	.046	-.005	.059
15	8.7	.022	-.036	.022	-.020	.009	.005	-.021	-.004	-.026	.035	-.023	.060
	42.3	.014	-.043	.017	-.027	.004	-.002	-.020	0	-.026	.011	-.030	.052
	70.7	.001	-.042	.009	-.024	.002	0	-.019	-.006	-.022	.009	-.033	.017
20	8.7	-.009	-.045	-.005	-.040	-.020	-.021	-.035	-.022	-.041	-.011	-.044	.026
	42.3	-.019	-.058	-.015	-.041	-.021	-.021	-.037	-.025	-.040	-.010	-.047	.014
	70.7	-.033	-.060	-.020	-.042	-.023	-.023	-.041	-.032	-.042	-.020	-.049	-.012
25	8.7	-.027	-.061	-.019	-.048	-.028	-.033	-.047	-.035	-.051	-.016	-.047	.004
	42.3	-.035	-.060	-.028	-.048	-.032	-.032	-.050	-.035	-.051	-.022	-.048	-.009
	70.7	-.047	-.065	-.036	-.052	-.034	-.034	-.050	-.041	-.053	-.028	-.059	-.023
28.50	8.7	-.032	-.058	-.028	-.042	-.032	-.033	-.047	-.035	-.052	-.019	-.047	.001
	42.3	-.035	-.058	-.030	-.043	-.032	-.033	-.050	-.035	-.051	-.026	-.047	-.010
	70.7	-.052	-.065	-.040	-.051	-.036	-.034	-.056	-.045	-.053	-.038	-.052	-.030
31.50	8.7	-.043	-.058	-.036	-.045	-.039	-.037	-.057	-.046	-.053	-.028	-.048	-.019
	42.3	-.046	-.061	-.040	-.048	-.039	-.041	-.056	-.047	-.052	-.037	-.048	-.021
	70.7	-.058	-.065	-.045	-.052	-.045	-.037	-.060	-.047	-.054	-.041	-.058	-.036
34.50	8.7	-.031	-.058	-.020	-.054	-.022	-.033	-.037	-.041	-.035	-.027	-.033	-.009
	42.3	-.043	-.058	-.032	-.054	-.033	-.033	-.046	-.041	-.043	-.028	-.042	-.017
	70.7	-.048	-.060	-.036	-.045	-.022	-.033	-.047	-.045	-.051	-.038	-.048	-.030
38.00	8.7	-.043	- - -	-.036	- - -	-.023	- - -	-.050	- - -	-.051	- - -	-.036	- - -
	42.3	-.055	-.058	-.045	-.048	-.032	-.037	-.057	-.047	-.052	-.038	-.046	-.023
	70.7	-.052	-.058	-.036	-.042	-.033	-.034	-.047	-.045	-.044	-.038	-.047	-.033
41.50	8.7	-.045	-.058	-.036	-.045	-.034	-.034	-.048	-.039	-.043	-.028	-.036	-.017
	42.3	-.047	-.058	-.040	-.048	-.036	-.037	-.050	-.047	-.046	-.038	-.036	-.027
	70.7	-.058	-.058	-.045	-.048	-.037	-.036	-.053	-.047	-.051	-.044	-.048	-.042
44.50	8.7	- - -	-.056	- - -	-.042	- - -	-.036	- - -	-.047	- - -	-.032	- - -	-.021
	42.3	-.056	-.056	-.045	-.042	-.041	-.034	-.053	-.047	-.051	-.038	-.042	-.023
	70.7	-.058	-.065	-.048	-.048	-.041	-.041	-.053	-.053	-.051	-.051	-.048	-.046
47.50	8.7	-.046	-.052	-.032	-.040	-.033	-.034	-.046	-.045	-.040	-.031	-.027	-.017
	42.3	-.011	-.055	-.002	-.040	.004	-.034	-.009	-.047	-.001	-.038	.002	-.023
	70.7	-.058	-.057	-.042	-.042	-.034	-.034	-.047	-.047	-.043	-.043	-.042	-.044
50.50	8.7	-.058	- - -	-.052	- - -	-.047	- - -	-.060	- - -	-.051	- - -	-.039	- - -
	42.3	-.061	-.058	-.052	-.048	-.045	-.045	-.058	-.060	-.047	-.052	-.042	-.046
	70.7	-.071	-.065	-.054	-.043	-.047	-.047	-.060	-.060	-.053	-.053	-.048	-.050
53.50	8.7	- - -	-.056	- - -	-.042	- - -	-.041	- - -	-.050	- - -	-.028	- - -	-.039
	42.3	-.057	-.057	-.045	-.045	-.039	-.041	-.048	-.053	-.042	-.049	-.034	-.036
	70.7	-.061	-.058	-.048	-.048	-.041	-.041	-.053	-.050	-.051	-.052	-.042	-.043
56.50	8.7	-.069	-.050	-.053	-.047	-.047	-.047	-.050	-.055	-.044	-.042	-.034	-.039
	42.3	-.068	-.050	-.054	-.045	-.047	-.047	-.050	-.055	-.047	-.042	-.037	-.047
	70.7	-.061	-.058	-.047	-.045	-.040	-.047	-.045	-.055	-.038	-.050	-.037	-.058
59.50	8.7	-.051	-.019	-.047	-.011	-.047	-.010	-.052	-.017	-.048	-.011	-.033	-.007
	42.3	-.062	-.048	-.047	-.037	-.046	-.042	-.047	-.054	-.049	-.043	-.034	-.046
	70.7	-.069	-.058	-.059	-.045	-.047	-.047	-.054	-.055	-.042	-.050	-.039	-.048

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	0.123	-0.031	0.147	-0.034	0.175	-0.039	0.209	-0.039	0.259	-0.054	0.273
	42.3	-.023	.112	-.038	.118	-.047	.138	-.062	.160	-.076	.193	-.110	.317
	70.7	-.033	-.060	-.053	.059	-.073	.062	-.092	.064	-.113	.068	-.143	.050
15	8.7	-.043	.076	-.052	.101	-.052	.129	-.048	.160	-.049	.200	-.065	.217
	42.3	-.048	.051	-.059	.071	-.069	.084	-.080	.101	-.099	.135	-.134	.133
	70.7	-.051	.015	-.075	.017	-.059	.018	-.105	.018	-.121	.018	-.143	.007
20	8.7	-.049	.039	-.054	.064	-.055	.086	-.052	.112	-.049	.158	-.068	.167
	42.3	-.060	.025	-.067	.046	-.076	.049	-.086	.068	-.108	.097	-.140	.004
	70.7	-.073	-.015	-.077	-.018	-.098	-.015	-.111	-.018	-.117	-.022	-.140	-.039
25	8.7	-.051	.015	-.053	.047	-.050	.059	-.049	.080	-.086	.123	-.064	.131
	42.3	-.060	0	-.069	.009	-.076	.025	-.089	.038	-.110	.026	-.140	.067
	70.7	-.073	-.025	-.075	-.035	-.096	-.034	-.105	-.039	-.111	-.031	-.138	-.060
28.50	8.7	-.049	.012	-.052	.042	-.048	.049	-.047	.074	-.031	.111	-.060	.121
	42.3	-.055	-.006	-.068	.005	-.074	.014	-.086	.031	-.105	.055	-.138	.055
	70.7	-.072	-.035	-.072	-.040	-.089	-.028	-.096	-.049	-.105	-.050	-.131	-.069
31.50	8.7	-.049	0	-.053	.015	-.049	.037	-.049	.055	-.049	.096	-.069	.106
	42.3	-.055	-.018	-.066	-.014	-.074	0	-.028	.012	-.111	.037	-.134	.033
	70.7	-.072	-.041	-.082	-.051	-.086	-.052	-.091	-.059	-.101	-.062	-.128	-.080
34.50	8.7	-.037	0	-.041	.015	-.034	.034	-.031	.052	-.034	.087	-.054	.100
	42.3	-.048	-.012	-.056	-.010	-.064	0	-.080	.012	-.105	.037	-.133	.031
	70.7	-.062	-.041	-.068	-.051	-.074	-.052	-.084	-.059	-.090	-.065	-.116	-.076
38.00	8.7	-.038	- - -	-.040	- - -	-.037	- - -	-.037	- - -	-.043	- - -	-.064	- - -
	42.3	-.052	-.012	-.063	-.016	-.074	-.012	-.090	.002	-.112	.025	-.145	.020
	70.7	-.052	-.043	-.063	-.052	-.068	-.055	-.074	-.064	-.085	-.071	-.110	-.041
41.50	8.7	-.037	-.011	-.035	-.022	-.034	.018	-.034	.038	-.039	.071	-.064	.080
	42.3	-.047	-.025	-.057	-.026	-.068	-.014	-.086	.002	-.110	.014	-.138	.007
	70.7	-.059	-.048	-.063	-.054	-.071	-.068	-.076	-.071	-.079	-.076	-.116	-.101
44.50	8.7	- - -	-.012	- - -	-.004	- - -	-.012	- - -	.031	- - -	.069	- - -	.069
	42.3	-.048	-.025	-.056	-.026	-.074	-.015	-.090	-.006	-.111	.012	.139	.010
	70.7	-.052	-.051	-.063	-.066	-.071	-.071	-.074	-.074	-.086	-.086	.113	-.106
47.50	8.7	-.031	-.012	-.028	-.004	-.025	.012	-.018	.037	-.038	.067	-.060	.069
	42.3	-.005	-.031	-.015	-.028	-.065	-.022	-.037	-.011	-.049	.009	-.073	.005
	70.7	-.049	-.053	-.054	-.066	-.064	-.071	-.071	-.076	-.080	-.087	-.103	-.106
50.50	8.7	-.037	- - -	-.038	- - -	-.037	- - -	-.043	- - -	-.076	- - -	-.076	- - -
	42.3	-.049	-.048	-.063	-.041	-.076	-.037	-.095	-.025	-.107	-.006	-.131	-.015
	70.7	-.052	-.111	-.063	-.084	-.068	-.086	-.074	-.089	-.086	-.102	-.110	-.128
53.50	8.7	- - -	-.025	- - -	-.016	- - -	-.002	- - -	.012	- - -	.043	- - -	.044
	42.3	.004	-.043	-.053	-.041	-.071	-.037	-.086	-.025	-.096	-.011	-.118	-.017
	70.7	-.049	-.065	-.053	-.073	-.062	-.084	-.068	-.086	-.074	-.099	-.097	-.122
56.50	8.7	-.033	-.041	-.035	.036	-.037	-.014	-.048	.001	-.055	-.026	-.076	.034
	42.3	-.047	-.048	-.064	-.058	-.075	-.047	-.086	-.034	-.092	-.022	-.128	-.027
	70.7	-.047	-.072	.060	-.086	-.050	-.087	-.059	-.096	-.071	-.109	-.087	-.126
59.50	8.7	-.033	-.007	-.045	-.012	-.037	-.004	-.045	.002	-.049	.022	-.071	.032
	42.3	-.044	-.048	-.067	-.058	-.074	-.043	-.076	-.034	-.035	-.025	-.103	-.026
	70.7	-.048	-.072	-.061	-.092	-.060	-.097	-.070	-.102	-.073	-.112	-.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	-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	0.061	0.006	0.047	0.007	0.027	0.027	0.014	0.017	0.002	0.059	-0.009	0.082
	42.3	.059	.006	.041	.007	.027	.025	.014	.017	.002	.050	-.009	.071
	70.7	.050	.006	.036	.003	.027	.018	.014	.025	.002	.034	-.011	.019
15	8.7	.029	-.021	.015	-.022	-.001	.007	-.019	.002	-.030	.023	-.041	.019
	42.3	.025	-.027	.010	-.027	.007	-.016	-.019	-.008	-.030	.129	-.042	.025
	70.7	.007	-.025	.002	-.032	.007	-.016	-.019	-.009	-.030	-.003	-.042	.002
20	8.7	-.003	-.041	-.013	-.045	-.027	-.033	-.041	-.023	-.049	-.009	-.055	.006
	42.3	-.007	-.041	-.022	-.045	-.029	-.038	-.041	-.032	-.053	-.021	-.055	-.007
	70.7	-.024	-.050	-.033	-.050	-.035	-.041	-.043	-.042	-.054	-.032	-.061	-.010
25	8.7	-.018	-.050	-.031	-.056	-.040	-.043	-.049	-.043	-.055	-.030	-.057	-.011
	42.3	-.030	-.050	-.042	-.056	-.041	-.043	-.055	-.043	-.061	-.032	-.064	-.021
	70.7	-.039	-.053	-.045	-.056	-.047	-.053	-.055	-.046	-.061	-.043	-.069	-.045
28.50	8.7	-.021	-.047	-.033	-.054	-.041	-.047	-.053	-.041	-.055	-.030	-.055	-.021
	42.3	-.030	-.050	-.042	-.056	-.041	-.047	-.053	-.041	-.057	-.034	-.064	-.032
	70.7	-.041	-.054	-.050	-.056	-.050	-.053	-.055	-.053	-.064	-.046	-.071	-.043
31.50	8.7	-.040	-.051	-.047	-.056	-.053	-.053	-.057	-.049	-.061	-.041	-.064	-.010
	42.3	-.040	-.051	-.047	-.058	-.053	-.053	-.057	-.055	-.061	-.043	-.064	-.041
	70.7	-.053	-.053	-.058	-.058	-.055	-.053	-.064	-.055	-.066	-.054	-.076	-.053
34.50	8.7	-.027	-.043	-.033	-.054	-.039	-.049	-.043	-.043	-.047	-.038	-.047	-.025
	42.3	-.032	-.043	-.044	-.056	-.043	-.049	-.053	-.043	-.054	-.042	-.054	-.017
	70.7	-.043	-.053	-.047	-.068	-.047	-.053	-.051	-.055	-.055	-.055	-.061	-.053
38.00	8.7	-.039	- - -	-.045	- - -	-.051	- - -	-.055	- - -	-.056	- - -	-.057	- - -
	42.3	-.047	-.050	-.056	-.056	-.056	-.053	-.061	-.055	-.058	-.045	-.061	-.045
	70.7	-.043	-.050	-.050	-.056	-.050	-.053	-.053	-.053	-.055	-.053	-.057	-.051
41.50	8.7	-.039	-.043	-.045	-.055	-.047	-.051	-.053	-.053	-.055	-.043	-.053	-.014
	42.3	-.041	-.047	-.045	-.056	-.050	-.053	-.054	-.054	-.055	-.049	-.054	-.043
	70.7	-.050	-.051	-.056	-.056	-.051	-.053	-.055	-.054	-.055	-.055	-.064	-.055
44.50	8.7	- - -	-.043	- - -	-.054	- - -	-.051	- - -	-.053	- - -	-.043	- - -	-.018
	42.3	-.049	-.043	-.056	-.054	-.053	-.051	-.055	-.053	-.057	-.043	-.057	-.041
	70.7	-.053	-.053	-.056	-.056	-.051	-.054	-.057	-.057	-.057	-.055	-.064	-.057
47.50	8.7	-.035	-.041	-.045	-.047	-.047	-.049	-.049	-.046	-.047	-.042	-.046	-.012
	42.3	-.005	-.041	-.010	-.047	-.013	-.049	-.013	-.046	-.011	-.043	-.015	-.041
	70.7	-.043	-.047	-.050	-.054	-.050	-.050	-.053	-.053	-.054	-.053	-.055	-.055
50.50	8.7	-.039	- - -	-.058	- - -	-.058	- - -	-.064	- - -	-.056	- - -	-.059	- - -
	42.3	-.039	-.053	-.058	-.058	-.058	-.058	-.061	-.061	-.056	-.057	-.057	-.055
	70.7	-.058	-.055	-.065	-.064	-.063	-.058	-.065	-.064	-.066	-.065	-.066	-.068
53.50	8.7	- - -	-.041	- - -	-.054	- - -	-.053	- - -	-.055	- - -	-.054	- - -	-.046
	42.3	-.047	-.050	-.056	-.056	-.055	-.054	-.055	-.056	-.055	-.056	-.055	-.055
	70.7	-.053	-.053	-.057	-.057	-.055	-.055	-.055	-.058	-.056	-.054	-.055	-.066
56.50	8.7	-.058	-.044	-.065	-.054	-.064	-.055	-.064	-.055	-.061	-.057	-.055	-.063
	42.3	-.063	-.044	-.068	-.049	-.064	-.053	-.065	-.055	-.063	-.061	-.064	-.066
	70.7	-.047	-.044	-.051	-.054	-.049	-.055	-.043	-.055	-.049	-.066	-.058	-.078
59.50	8.7	-.049	-.038	-.054	-.043	-.055	-.043	-.049	-.046	-.049	-.053	-.050	-.054
	42.3	-.053	-.041	-.054	-.043	-.055	-.053	-.049	-.053	-.049	-.056	-.053	-.067
	70.7	-.066	-.044	-.064	-.049	-.061	-.054	-.057	-.055	-.057	-.066	-.066	-.078

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	-0.043	0.211	-0.063	0.238	-0.055	0.280
	42.3	-.024	.087	-.043	.105	-.058	.140	-.070	.156	-.099	.166	-.112	.206
	70.7	-.030	.048	-.057	.046	-.087	.056	-.100	.059	-.136	.051	-.145	.058
15	8.7	-.047	.064	-.061	.088	-.062	.130	-.060	.156	-.074	.184	-.067	.223
	42.3	-.053	.039	-.069	.050	-.078	.082	-.089	.099	-.122	.112	-.115	.140
	70.7	-.055	.006	-.084	.005	-.108	.010	-.115	.100	-.145	.003	-.147	.010
20	8.7	-.058	.025	-.072	.042	-.066	.085	-.063	.108	-.077	.131	-.069	.172
	42.3	-.064	.007	-.079	.019	-.087	.040	-.095	.059	-.111	.072	-.114	.068
	70.7	-.075	-.024	-.101	-.032	-.112	-.010	-.117	-.026	-.143	-.042	-.147	-.015
25	8.7	-.062	.005	-.069	.019	-.062	.056	-.058	.071	-.071	.095	-.067	.117
	42.3	-.071	-.016	-.084	-.009	-.093	.016	-.100	.031	-.134	.018	-.147	.007
	70.7	-.081	-.041	-.101	-.043	.110	-.047	-.112	-.047	-.136	-.065	-.144	-.065
28.50	8.7	-.158	.002	-.066	.014	-.054	-.049	-.051	.067	-.065	.083	-.067	.126
	42.3	-.066	-.018	-.078	-.015	-.087	-.006	-.095	.022	-.134	.029	-.145	.095
	70.7	-.078	-.043	-.101	-.055	-.104	-.053	-.106	-.051	-.134	-.075	-.117	-.069
31.50	8.7	-.063	-.017	-.069	-.001	-.062	.027	-.057	.048	-.075	.072	-.076	.104
	42.3	-.066	-.030	-.078	-.023	-.087	-.007	-.100	.008	-.136	.015	-.147	.035
	70.7	-.078	-.050	-.101	-.057	-.098	-.062	-.104	-.066	-.128	-.088	-.135	-.086
34.50	8.7	-.047	-.015	-.055	.002	-.041	.027	-.038	.048	-.054	.126	-.056	.101
	42.3	-.058	-.010	-.072	-.026	-.081	-.007	-.095	.002	-.130	.006	-.143	.026
	70.7	-.072	-.051	-.087	-.064	-.087	-.064	-.094	-.070	-.120	-.088	-.124	-.089
38.00	8.7	-.053	- - -	-.053	- - -	-.050	- - -	-.047	- - -	-.065	- - -	-.069	- - -
	42.3	-.063	-.035	-.076	-.032	-.087	-.017	-.104	-.003	-.145	.001	-.156	.024
	70.7	-.066	-.053	-.080	-.064	-.081	-.070	-.089	-.072	-.111	-.097	-.118	-.094
41.50	8.7	-.050	-.021	-.053	-.011	-.041	-.016	-.040	.031	-.065	.047	-.067	.081
	42.3	-.056	-.041	-.066	-.041	-.085	-.021	-.097	-.013	-.134	-.008	-.144	.012
	70.7	-.067	-.055	-.078	-.072	-.085	-.076	-.089	-.081	-.113	-.099	-.120	-.101
44.50	8.7	- - -	-.030	- - -	-.021	- - -	.007	- - -	.094	- - -	.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	-.086	-.111	-.111	-.115	-.110
47.50	8.7	-.041	-.024	-.043	-.015	-.039	.007	-.018	.025	-.063	.018	-.067	.069
	42.3	-.016	-.041	-.030	-.042	-.040	-.024	-.049	-.015	-.077	-.017	-.078	.001
	70.7	-.058	-.062	-.076	-.078	-.076	-.081	-.081	-.086	-.109	-.111	-.109	-.112
50.50	8.7	-.053	- - -	-.055	- - -	-.053	- - -	-.051	- - -	-.079	- - -	-.078	- - -
	42.3	-.061	-.055	-.074	-.055	-.093	-.041	-.106	-.035	-.134	-.031	-.135	-.010
	70.7	-.066	-.075	-.078	-.089	-.081	-.096	-.086	-.100	-.111	-.125	-.112	-.124
53.50	8.7	- - -	-.041	- - -	-.032	- - -	.009	- - -	.002	- - -	.015	- - -	.047
	42.3	-.010	-.053	-.072	-.055	-.088	-.047	-.097	-.038	-.122	-.034	-.124	-.016
	70.7	-.058	-.075	-.072	-.089	-.076	-.095	-.078	-.103	-.099	-.122	-.101	-.024
56.50	8.7	-.053	-.055	-.053	-.053	-.051	-.030	-.060	-.009	-.086	-.008	-.141	-.025
	42.3	-.061	-.061	-.076	-.069	-.096	-.055	-.103	-.046	-.125	-.053	-.124	-.032
	70.7	-.059	-.084	-.073	-.101	-.076	-.113	-.068	-.108	-.101	-.023	-.098	-.026
59.50	8.7	-.044	-.048	-.050	-.044	-.055	-.030	-.055	-.009	-.087	-.007	-.078	.025
	42.3	-.055	-.061	-.078	-.069	-.073	-.055	-.091	-.046	-.122	-.054	-.118	-.032
	70.7	-.063	-.084	-.076	-.104	-.078	-.115	-.074	-.114	-.111	-.148	-.107	-.146

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	0.003	0.034	0.034	0.021	0.045	-0.001	0.060	-0.006	0.093
	42.3	.056	-.002	.039	.004	.032	.034	.021	.043	0	.051	-.016	.081
	70.7	.051	-.002	.034	.003	.032	.025	.021	.032	.001	.033	-.007	.048
15	8.7	.031	-.033	.012	-.028	.001	.001	-.010	.010	-.037	.019	-.032	.050
	42.3	.022	-.035	.009	-.030	.004	.009	-.015	.001	-.037	.006	-.033	.034
	70.7	.007	-.035	.001	-.030	.004	.009	-.013	-.004	-.033	-.008	-.034	.006
20	8.7	-.004	-.049	-.019	-.050	-.023	-.252	-.034	-.021	-.051	-.014	-.050	.014
	42.3	-.013	-.050	-.024	-.050	-.027	-.252	-.037	-.023	-.047	-.019	-.048	.003
	70.7	-.027	-.055	-.036	-.052	-.032	-.034	-.041	-.032	-.059	-.039	-.058	-.019
25	8.7	-.022	-.058	-.036	-.061	-.034	-.042	-.043	-.034	-.061	-.033	-.052	-.006
	42.3	-.034	-.058	-.038	-.061	-.042	-.042	-.052	-.037	-.070	-.039	-.061	-.017
	70.7	-.046	-.058	-.052	-.062	-.043	-.043	-.052	-.043	-.070	-.050	-.065	-.035
28.50	8.7	-.027	-.055	-.041	-.058	-.042	-.041	-.049	-.037	-.061	-.037	-.052	-.008
	42.3	-.035	-.058	-.041	-.059	-.042	-.042	-.052	-.041	-.061	-.039	-.054	-.021
	70.7	-.049	-.060	-.052	-.063	-.044	-.044	-.054	-.049	-.070	-.051	-.065	-.041
31.50	8.7	-.041	-.058	-.052	-.063	-.051	-.045	-.054	-.044	-.067	-.041	-.055	-.021
	42.3	-.046	-.061	-.055	-.065	-.051	-.052	-.054	-.052	-.067	-.050	-.060	-.031
	70.7	-.059	-.063	-.063	-.065	-.054	-.052	-.060	-.049	-.070	-.056	-.065	-.047
34.50	8.7	-.033	-.052	-.040	-.055	-.034	-.041	-.043	-.042	-.052	-.039	-.041	-.019
	42.3	-.035	-.052	-.044	-.055	-.041	-.043	-.037	-.043	-.059	-.050	-.050	-.036
	70.7	-.046	-.058	-.052	-.063	-.043	-.044	-.052	-.045	-.061	-.052	-.054	-.043
38.00	8.7	-.044	- - -	-.052	- - -	-.049	- - -	-.054	- - -	-.061	- - -	-.052	- - -
	42.3	-.054	-.058	-.058	-.063	-.052	-.049	-.056	-.049	-.067	-.051	-.054	-.035
	70.7	-.055	-.058	-.058	-.063	-.049	-.043	-.045	-.045	-.061	-.051	-.054	-.041
41.50	8.7	-.041	-.052	-.047	-.058	-.043	-.044	-.049	-.045	-.059	-.050	-.043	-.030
	42.3	-.046	-.055	-.052	-.060	-.044	-.049	-.051	-.049	-.059	-.052	-.050	-.041
	70.7	-.058	-.058	-.061	-.062	-.051	-.049	-.054	-.049	-.052	-.059	-.058	-.050
44.50	8.7	- - -	-.052	- - -	-.058	- - -	-.045	- - -	-.049	- - -	-.050	- - -	-.030
	42.3	-.055	-.050	-.062	-.055	-.052	-.044	-.045	-.047	-.061	-.050	-.052	-.039
	70.7	-.058	-.059	-.063	-.063	-.052	-.051	-.045	-.053	-.063	-.061	-.054	-.052
47.50	8.7	-.060	-.046	-.047	-.052	-.043	-.043	-.044	-.054	-.050	-.048	-.039	-.030
	42.3	-.011	-.048	-.017	-.052	-.008	-.043	-.010	-.054	-.017	-.050	-.008	-.039
	70.7	-.055	-.055	-.058	-.059	-.043	-.043	-.049	-.049	-.060	-.056	-.052	-.050
50.50	8.7	-.058	- - -	-.063	- - -	-.054	- - -	-.056	- - -	-.062	-.044	-.052	- - -
	42.3	-.058	-.058	-.063	-.063	-.054	-.054	-.059	-.056	-.061	-.063	-.052	-.052
	70.7	-.068	-.063	-.075	-.069	-.060	-.056	-.053	-.060	-.071	-.070	-.061	-.063
53.50	8.7	- - -	-.046	- - -	-.058	- - -	-.049	- - -	-.052	- - -	-.056	- - -	-.041
	42.3	-.059	-.056	-.061	-.062	-.052	-.053	-.054	-.054	-.060	-.061	-.050	-.050
	70.7	-.058	-.058	-.063	-.063	-.052	-.053	-.054	-.054	-.061	-.067	-.052	-.061
56.50	8.7	-.066	-.055	-.061	-.061	-.062	-.050	-.063	-.044	-.067	-.063	-.050	-.052
	42.3	-.067	-.057	-.061	-.058	-.060	-.046	-.062	-.049	-.064	-.065	-.050	-.061
	70.7	-.064	-.061	-.061	-.062	-.061	-.046	-.058	-.054	-.059	-.072	-.051	-.072
59.50	8.7	-.062	-.047	-.064	-.052	-.045	-.040	-.064	-.096	-.056	-.052	-.042	-.047
	42.3	-.064	-.052	-.064	-.055	-.045	-.041	-.095	-.096	-.059	-.062	-.050	-.054
	70.7	-.077	-.060	-.062	-.061	-.051	-.050	-.096	-.078	-.061	-.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	-0.024	0.109	-0.036	0.142	-0.049	0.171	-0.050	0.211	-0.053	0.241	-0.061	0.274
	42.3	-.024	.088	-.046	.111	-.061	.126	-.072	.158	-.066	.175	-.135	.147
	70.7	-.036	.052	-.059	.053	-.084	.051	-.110	.060	-.124	-.060	-.167	.042
15	8.7	-.049	.064	-.058	.068	-.063	.121	-.063	.158	-.063	.183	-.085	.217
	42.3	-.056	.050	-.069	.059	-.082	.071	-.091	.097	-.111	.114	-.159	.130
	70.7	-.058	.009	-.082	.011	-.105	.010	-.117	.014	-.133	.014	-.167	-.002
20	8.7	-.059	.031	-.068	.053	-.074	.071	-.064	.105	-.065	.136	-.091	.164
	42.3	-.069	.009	-.080	.044	-.094	.038	-.102	.059	-.118	.075	-.166	.086
	70.7	-.079	-.024	-.097	-.026	-.116	-.031	-.118	-.029	-.132	-.030	-.168	-.052
25	8.7	-.067	.003	-.067	-.086	-.071	.038	-.058	.071	-.063	.102	-.088	.125
	42.3	-.070	-.013	-.080	-.219	-.094	.012	-.102	.025	-.121	.047	-.164	.053
	70.7	-.081	-.038	-.093	-.039	-.115	-.050	-.117	-.051	-.130	-.061	-.166	-.080
28.50	8.7	-.059	-.001	-.061	.020	-.061	.038	-.053	.066	-.062	.083	-.088	.110
	42.3	-.070	-.016	-.078	-.008	-.093	-.001	-.100	.022	-.118	.033	-.168	.042
	70.7	-.079	-.047	-.093	-.050	-.107	-.060	-.108	-.054	-.118	-.066	-.169	-.091
31.50	8.7	-.067	-.013	-.063	.009	-.063	.018	-.061	.048	-.065	.070	-.093	.047
	42.3	-.069	-.033	-.078	-.013	-.093	-.012	-.105	.003	-.127	.020	-.169	.021
	70.7	-.081	-.054	-.091	-.058	-.092	-.088	-.105	-.069	-.118	-.074	-.156	-.102
34.50	8.7	-.049	-.013	-.047	.009	-.050	.017	-.041	.048	-.047	.063	-.078	.088
	42.3	-.060	-.036	-.069	-.013	-.083	-.017	-.096	.002	-.117	.014	-.160	.017
	70.7	-.069	-.052	-.080	-.057	-.094	-.068	-.096	-.069	-.109	-.082	-.145	-.107
38.00	8.7	-.056	- - -	-.052	- - -	-.052	- - -	-.050	- - -	-.061	- - -	-.041	- - -
	42.3	-.068	-.036	-.074	-.030	-.094	-.021	-.108	-.008	-.131	.003	-.177	.009
	70.7	-.069	-.056	-.078	-.059	-.084	-.073	-.088	-.074	-.105	-.085	-.144	-.113
41.50	8.7	-.049	-.024	-.047	-.008	-.045	.004	-.044	-.027	-.054	.048	-.091	.066
	42.3	-.058	-.038	-.069	-.036	-.084	-.034	-.104	-.017	-.121	-.007	-.169	-.002
	70.7	-.069	-.060	-.078	-.069	-.084	-.079	-.086	-.085	-.107	-.058	-.144	-.122
44.50	8.7	- - -	-.024	- - -	-.013	- - -	-.004	- - -	.025	- - -	.037	- - -	.059
	42.3	-.059	-.037	-.069	-.036	-.094	-.038	-.108	-.012	-.130	-.008	-.168	-.002
	70.7	-.069	-.067	-.074	-.072	-.087	-.084	-.087	-.086	-.105	-.102	-.135	-.130
47.50	8.7	-.044	-.024	-.037	-.012	-.040	-.001	-.041	.029	-.052	.048	-.040	.055
	42.3	-.013	-.038	-.024	-.036	-.040	-.037	-.053	-.019	-.069	-.008	-.090	-.011
	70.7	-.060	-.061	-.069	-.074	-.082	-.085	-.085	-.087	-.096	-.102	-.127	-.126
50.50	8.7	-.052	- - -	-.047	- - -	-.056	- - -	-.050	- - -	-.074	- - -	-.102	- - -
	42.3	-.063	-.058	-.073	-.056	-.095	-.050	-.113	-.032	-.121	-.030	-.157	-.030
	70.7	-.069	-.078	-.073	-.090	-.005	-.079	-.087	-.106	-.106	-.118	-.135	-.146
53.50	8.7	- - -	-.059	- - -	-.032	- - -	-.018	- - -	.003	-.103	- - -	- - -	.036
	42.3	-.058	-.057	-.072	-.052	-.093	-.051	-.105	-.039	-.116	-.030	-.145	-.033
	70.7	-.063	-.074	-.069	-.088	-.081	-.046	-.083	-.105	-.094	-.117	-.124	-.146
56.50	8.7	-.052	-.052	-.047	-.041	-.050	-.030	-.063	-.018	-.080	-.002	-.102	.014
	42.3	-.050	-.063	-.074	-.061	-.096	-.055	-.105	-.050	-.117	-.050	-.146	-.043
	70.7	-.058	-.085	-.066	-.096	-.073	-.108	-.078	-.119	-.094	-.135	-.108	-.157
59.50	8.7	-.041	-.043	-.041	-.036	-.051	-.025	-.063	-.010	-.080	.003	-.036	.020
	42.3	-.055	-.061	-.075	-.061	-.087	-.055	-.100	-.052	-.113	-.052	-.135	-.044
	70.7	-.061	-.086	-.069	-.097	-.079	-.108	-.089	-.121	-.105	-.140	-.124	-.163

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	0.053	0.012	0.019	0.020	0.005	0.033	-0.005	0.062	-0.062	0.096
	42.3	.059	.009	.046	.012	.019	.020	.005	.032	-.005	.054	-.062	.082
	70.7	.055	.006	.049	.012	---	.019	.009	.022	-.005	.038	-.066	.053
15	8.7	.033	-.018	-.017	-.020	-.013	-.013	-.030	-.005	-.038	.022	-.039	.053
	42.3	.026	-.027	.014	-.028	-.015	-.022	-.030	-.013	-.038	.006	-.041	-.037
	70.7	.009	-.026	.004	-.026	-.015	-.019	-.030	-.020	-.038	-.005	-.041	-.010
20	8.7	-.002	-.040	-.012	-.042	-.035	-.042	-.053	-.034	-.059	-.014	-.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	-.028
25	8.7	-.018	-.051	-.029	-.053	-.051	-.055	-.065	-.052	-.065	-.032	-.060	-.006
	42.3	-.031	-.051	-.040	-.053	-.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	-.023
	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	-.065	-.070	-.046	-.060	-.017
	42.3	-.040	-.051	-.050	-.060	-.065	-.065	-.074	-.065	-.070	-.054	-.066	-.033
	70.7	-.054	-.053	-.060	-.060	-.067	-.058	-.076	-.065	-.079	-.059	-.071	-.047
34.50	8.7	-.029	-.045	-.033	-.052	-.048	-.056	-.060	-.054	-.075	-.038	-.046	-.017
	42.3	-.038	-.043	-.042	-.052	-.054	-.056	-.064	-.060	-.062	-.049	-.052	-.030
	70.7	-.045	-.049	-.047	-.053	-.056	-.056	-.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	-.043	-.056	-.056	-.065	-.065	-.065	-.057	-.060	-.049
41.50	8.7	-.040	-.045	-.044	-.053	-.056	-.058	-.065	-.063	-.059	-.049	-.049	-.028
	42.3	-.040	-.048	-.047	-.053	-.056	-.062	-.065	-.065	-.062	-.059	-.052	-.039
	70.7	-.051	-.049	-.053	-.053	-.062	-.057	-.067	-.065	-.057	-.059	-.060	-.049
44.50	8.7	---	-.043	---	-.053	---	-.058	---	-.065	---	-.051	---	-.033
	42.3	-.049	-.043	-.053	-.053	-.063	-.058	-.074	-.065	-.067	-.054	-.055	-.039
	70.7	-.051	-.051	-.053	-.058	-.062	-.065	-.071	-.073	-.057	-.068	-.060	-.058
47.50	8.7	-.034	-.040	-.042	-.047	-.056	-.056	-.065	-.060	-.057	-.049	-.044	-.028
	42.3	-.045	-.041	-.010	-.050	-.018	-.056	-.024	-.063	-.018	-.054	-.009	-.039
	70.7	-.048	-.048	-.053	-.052	-.056	-.056	-.065	-.064	-.061	-.059	-.055	-.052
50.50	8.7	-.051	---	-.055	---	-.068	---	-.076	---	-.065	---	-.051	---
	42.3	-.053	-.053	-.058	-.061	-.067	-.067	-.074	-.076	-.065	-.068	-.055	-.055
	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	-.052
	70.7	-.052	-.051	-.055	-.055	-.064	-.065	-.067	-.073	-.065	-.070	-.058	-.066
56.50	8.7	-.059	-.058	-.064	-.060	-.072	-.071	-.076	-.081	-.068	-.072	-.049	-.059
	42.3	-.059	-.057	-.064	-.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	-.050	-.072	-.070	-.061	-.062	-.049	-.049
	42.3	-.062	-.050	-.063	-.054	-.068	-.067	-.072	-.074	-.061	-.072	-.051	-.062
	70.7	-.073	-.059	-.070	-.061	-.071	-.068	-.078	-.083	-.064	-.082	-.059	-.081

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	-0.033	0.139	-0.046	0.171	-0.056	0.211	-0.052	0.243	-0.074	0.277
	42.3	-.031	.090	-.043	.108	-.058	.129	-.080	.154	-.090	.176	-.142	.199
	70.7	-.039	.049	-.056	.053	-.081	.053	-.111	.053	-.126	.059	-.170	.044
15	8.7	-.057	.063	-.056	.095	-.067	.124	-.069	.149	-.069	.187	-.093	.220
	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	-.069	.028	-.067	.052	-.069	.075	-.076	.106	-.070	.133	-.095	.167
	42.3	-.067	.006	-.078	.022	-.090	.040	-.110	.059	-.123	.060	-.174	.091
	70.7	-.085	-.037	-.097	-.025	-.112	-.030	-.132	-.035	-.136	.033	-.174	-.060
25	8.7	-.069	-.003	-.067	.025	-.066	.049	-.068	.074	-.066	.101	-.201	.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	-.082
28.50	8.7	-.068	-.004	-.058	.019	-.058	.040	-.062	.063	-.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	-.057	-.121	-.067	-.125	-.070	-.169	-.095
31.50	8.7	-.071	-.017	-.066	0	-.066	.021	-.068	.041	-.070	.069	-.092	.092
	42.3	-.078	-.037	-.077	-.023	-.090	.013	-.116	.002	-.130	.016	-.181	.026
	70.7	-.090	-.058	-.090	-.056	-.102	-.068	-.116	-.078	-.123	-.081	-.167	-.105
34.50	8.7	-.057	-.015	-.051	-.108	-.048	.019	-.046	.041	-.049	.058	-.082	.089
	42.3	-.067	-.037	-.067	-.024	-.081	-.019	-.110	-.004	-.124	.006	-.170	.017
	70.7	-.080	-.058	-.079	-.057	-.091	-.068	-.110	-.080	-.114	-.082	-.156	-.114
38.00	8.7	-.060	---	-.055	---	-.056	---	-.057	---	-.062	---	-.102	---
	42.3	-.070	-.045	-.069	-.032	-.091	-.026	-.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	-.050	.049	-.094	.069
	42.3	-.062	-.048	-.069	-.040	-.089	-.030	-.113	-.024	-.133	-.006	-.177	-.006
	70.7	-.078	-.067	-.077	-.067	-.089	-.079	-.102	-.090	-.106	-.095	-.148	-.126
44.50	8.7	---	-.035	---	-.013	---	-.003	---	.014	---	.106	---	.058
	42.3	-.078	-.048	-.069	-.043	-.091	-.030	-.123	-.024	-.134	-.006	-.180	-.006
	70.7	-.075	-.071	-.076	-.076	-.089	-.084	-.099	-.099	-.105	-.103	-.147	-.136
47.50	8.7	-.049	-.027	-.044	-.013	-.044	-.002	-.055	.019	-.059	.046	-.093	-.058
	42.3	-.024	-.046	-.023	-.038	-.041	-.035	-.067	-.024	-.070	-.009	-.106	-.019
	70.7	-.069	-.069	-.069	-.113	-.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	-.029
	70.7	-.078	-.085	-.078	-.089	-.089	-.100	-.102	-.112	-.104	-.123	-.145	-.150
53.50	8.7	---	-.045	---	-.029	---	-.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	-.150
56.50	8.7	-.069	-.060	-.051	-.047	-.057	-.029	-.077	-.017	-.082	-.005	-.114	.007
	42.3	-.067	-.070	-.072	-.050	-.092	-.057	-.113	-.054	-.119	-.049	-.153	-.052
	70.7	-.065	-.090	-.065	-.092	-.069	-.103	-.090	-.103	-.097	-.135	-.129	-.170
59.50	8.7	-.049	-.049	-.043	-.038	-.050	-.025	-.070	-.016	-.081	.001	-.114	.015
	42.3	-.060	-.069	-.070	-.062	-.091	-.057	-.108	-.057	-.114	-.049	-.151	-.058
	70.7	-.068	-.092	-.068	-.101	.079	-.106	-.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	0.054	0.012	0.042	0.034	0.023	0.047	0.006	0.071	-0.002	0.105
	42.3	.060	.006	.054	.012	.041	.034	.023	.044	.007	.062	-.002	.093
	70.7	.050	.006	.043	.011	.040	.030	.023	.039	.007	.044	-.004	.061
15	8.7	.029	-.024	.020	-.022	.010	0	-.012	-.007	-.024	-.077	-.034	.061
	42.3	.017	-.034	.014	-.031	.002	-.009	-.012	-.001	-.024	-.087	-.034	.040
	70.7	.007	-.030	.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	-.017	-.053	.008
	70.7	-.026	-.056	-.031	-.051	-.023	-.031	-.037	-.035	-.049	-.036	-.057	-.014
25	8.7	-.024	-.056	-.031	-.054	-.031	-.041	-.045	-.037	-.057	-.027	-.053	.003
	42.3	-.036	-.056	-.039	-.054	-.041	-.041	-.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	-.002
	42.3	-.037	-.055	-.040	-.043	-.040	-.041	-.050	-.040	-.058	-.036	-.055	-.013
	70.7	-.046	-.058	-.052	-.060	-.042	-.044	-.054	-.045	-.068	-.046	-.065	-.034
31.50	8.7	-.046	-.057	-.050	-.060	-.047	-.045	-.056	-.048	-.064	-.038	-.055	-.013
	42.3	-.047	-.058	-.051	-.062	-.047	-.050	-.056	-.050	-.064	-.048	-.055	-.028
	70.7	-.061	-.061	-.060	-.062	-.050	-.047	-.061	-.048	-.067	-.048	-.065	-.044
34.50	8.7	-.033	-.054	-.031	-.052	-.031	-.042	-.043	-.043	-.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	-.048	-.055	-.042
38.00	8.7	-.046	- - -	-.050	- - -	-.042	- - -	-.056	- - -	-.059	- - -	-.046	- - -
	42.3	-.053	-.056	-.054	-.057	-.052	-.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	-.050	-.059	-.054	-.055	-.046
44.50	8.7	- - -	-.051	- - -	-.052	- - -	-.044	- - -	-.045	- - -	-.046	- - -	-.023
	42.3	-.055	-.052	-.054	-.052	-.050	-.042	-.056	-.045	-.058	-.047	-.049	-.034
	70.7	-.058	-.061	-.057	-.062	-.050	-.051	-.055	-.055	-.059	-.058	-.055	-.054
47.50	8.7	-.043	-.048	-.043	-.050	-.040	-.042	-.046	-.045	-.048	-.040	-.036	-.023
	42.3	-.008	-.048	-.020	-.051	-.002	-.042	-.008	-.045	-.008	-.046	-.002	-.034
	70.7	-.055	-.055	-.052	-.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	-.052	-.052	-.059	-.059	-.059	-.059	-.049	-.049
	70.7	-.069	-.066	-.064	-.062	-.055	-.054	-.061	-.061	-.064	-.067	-.060	-.065
53.50	8.7	- - -	-.053	- - -	-.052	- - -	-.044	- - -	-.050	- - -	-.049	- - -	-.034
	42.3	-.054	-.056	-.054	-.054	-.047	-.046	-.052	-.054	-.054	-.057	-.044	-.044
	70.7	-.061	-.056	-.060	-.059	-.047	-.051	-.052	-.055	-.056	-.061	-.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	-.052	-.064	-.055	-.074
59.50	8.7	-.063	-.040	-.066	-.050	-.051	-.040	-.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	-.055	-.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	0.166	-0.048	0.115	-0.067	0.241	-0.055	0.289
	42.3	-.022	.102	-.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	.183	-.066	.234
	42.3	-.050	.049	-.058	.067	-.061	.077	-.096	.104	-.130	.109	-.141	.152
	70.7	-.056	.018	-.070	.024	-.075	.025	-.122	.015	-.152	-.002	-.149	.016
20	8.7	-.058	.039	-.060	.055	-.058	.080	-.069	.111	-.086	.134	-.073	.178
	42.3	-.066	.018	-.070	.032	-.073	.042	-.106	.075	-.145	.072	-.149	.104
	70.7	-.077	-.019	-.089	-.018	-.042	-.012	-.114	-.028	-.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	.018	-.109	.035	-.150	.032	-.152	.068
	70.7	-.084	-.035	-.091	-.037	-.093	-.032	-.122	-.051	-.150	-.076	-.146	-.069
28.50	8.7	-.056	.007	-.054	.024	-.051	.035	-.057	.067	-.076	.082	-.067	.131
	42.3	-.066	-.014	-.070	-.002	-.071	.015	-.104	.020	-.150	.014	-.150	.057
	70.7	-.082	.013	-.086	-.039	-.084	-.041	-.112	-.059	-.145	-.085	-.146	-.076
31.50	8.7	-.061	-.012	-.060	.008	-.053	.020	-.067	-.052	-.085	.063	-.078	.110
	42.3	-.066	-.026	-.069	-.018	-.069	-.004	-.204	.004	-.150	.008	-.157	.038
	70.7	-.079	-.047	-.083	-.049	-.084	-.052	-.112	-.071	-.140	-.095	-.139	-.087
34.50	8.7	-.045	-.003	-.039	.012	-.032	.020	-.047	.046	-.064	.061	-.056	.101
	42.3	-.056	-.024	-.060	-.018	-.061	-.004	-.101	-.001	-.143	0	-.144	.033
	70.7	-.068	-.045	-.072	-.049	-.074	-.052	-.101	-.140	-.130	-.099	-.130	-.089
38.00	8.7	-.054	- - -	-.047	- - -	-.042	- - -	-.058	- - -	-.078	- - -	-.076	- - -
	42.3	-.064	-.035	-.068	-.023	-.067	.015	-.121	-.006	-.161	-.113	-.162	.021
	70.7	-.066	-.050	-.069	-.052	-.070	.053	-.096	-.079	-.129	-.107	-.122	-.099
41.50	8.7	-.045	-.016	-.039	-.005	-.032	.008	-.048	.035	-.076	.040	-.073	.075
	42.3	-.055	-.035	-.058	-.028	-.061	-.022	-.111	-.017	-.149	-.121	-.150	.016
	70.7	-.066	-.056	-.070	-.060	-.071	-.061	-.099	-.088	-.129	-.111	-.129	-.101
44.50	8.7	- - -	-.022	- - -	-.007	- - -	-.001	- - -	.025	- - -	.031	-.076	.076
	42.3	-.055	-.035	-.061	-.028	-.065	-.023	-.121	-.017	-.151	-.023	-.152	.007
	70.7	-.066	-.064	-.068	-.065	-.065	-.067	-.094	-.094	-.129	-.119	-.120	-.110
47.50	8.7	-.037	-.019	-.030	-.007	-.022	0	-.047	.026	-.076	.030	-.071	.073
	42.3	-.012	-.035	-.016	-.028	-.015	-.022	-.059	-.017	-.089	-.022	-.082	.005
	70.7	-.056	-.061	-.061	-.061	-.062	-.064	-.091	-.094	-.119	-.119	-.113	-.111
50.50	8.7	-.047	- - -	-.044	- - -	-.037	- - -	-.064	- - -	-.095	- - -	-.089	- - -
	42.3	-.058	-.050	-.065	-.047	-.069	-.042	-.112	-.038	-.150	-.044	-.141	-.015
	70.7	-.066	-.077	-.070	-.081	-.069	-.082	-.096	-.111	-.129	-.140	-.120	-.130
53.50	8.7	- - -	-.035	- - -	-.026	- - -	-.011	- - -	.004	- - -	.008	- - -	.047
	42.3	-.054	-.047	-.060	-.044	-.068	-.037	-.109	-.038	-.138	-.044	-.131	-.016
	70.7	-.058	-.071	-.061	-.078	-.064	-.077	-.088	-.109	-.116	-.137	-.109	-.131
56.50	8.7	-.045	-.051	-.041	-.019	-.037	-.016	-.069	-.013	-.097	-.004	-.089	.029
	42.3	-.056	-.059	-.068	-.037	-.072	-.047	-.111	-.055	-.140	-.053	-.131	-.031
	70.7	-.059	-.080	-.048	-.076	-.063	-.099	-.085	-.118	-.002	-.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	-.031
	70.7	-.059	-.089	-.050	-.081	-.068	-.099	-.089	-.127	-.116	-.150	-.114	-.149

NACA

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	0.024	0.050	0	0.029	0.037	0.010	0.050	0.005	0.066	0.002	0.105
	42.3	.061	.025	.044	0	.029	.037	.010	.048	.005	.058	.002	.092
	70.7	.056	.020	.039	-.002	.028	.032	.010	.039	.005	.044	-.003	.059
15	8.7	.031	-.005	.013	-.033	-.003	-.002	-.014	.013	-.029	-.025	-.029	.055
	42.3	.026	-.015	.009	-.040	-.005	-.008	-.014	0	-.032	.009	-.030	.038
	70.7	.010	-.015	-.002	-.035	-.005	.045	-.012	-.002	-.027	-.001	-.030	.021
20	8.7	-.005	-.034	-.021	-.056	-.031	-.034	-.035	-.022	-.055	-.009	-.049	.023
	42.3	-.010	-.034	-.028	-.062	-.033	-.034	-.035	-.023	-.056	-.016	-.050	.005
	70.7	-.026	-.065	-.042	-.064	-.035	-.035	-.041	-.033	-.057	-.036	-.057	-.021
25	8.7	-.026	-.041	-.038	-.069	-.053	-.045	-.048	-.035	-.059	-.035	-.057	-.006
	42.3	-.031	-.044	-.049	-.069	-.050	-.045	-.033	-.036	-.063	-.037	-.058	-.010
	70.7	-.038	-.046	-.059	-.072	-.050	-.045	-.033	-.043	-.067	-.047	-.068	-.032
28.50	8.7	-.026	-.041	-.043	-.064	-.045	-.045	-.051	-.035	-.059	-.035	-.052	-.007
	42.3	-.033	-.044	-.051	-.066	-.047	-.045	-.051	-.037	-.060	-.037	-.056	-.018
	70.7	-.044	-.048	-.062	-.072	-.053	-.050	-.054	-.045	-.066	-.050	-.065	-.039
31.50	8.7	-.041	-.046	-.060	-.072	-.055	-.053	-.062	-.048	-.068	-.042	-.059	-.018
	42.3	-.043	-.046	-.065	-.074	-.059	-.055	-.061	-.052	-.087	-.049	-.059	-.029
	70.7	-.054	-.072	-.072	-.073	-.064	-.053	-.064	-.051	-.069	-.056	-.070	-.047
34.50	8.7	-.026	-.037	-.043	-.064	-.038	-.045	-.042	-.042	-.049	-.037	-.051	-.017
	42.3	-.031	-.037	-.054	-.064	-.044	-.045	-.051	-.042	-.057	-.040	-.049	-.029
	70.7	-.048	-.045	-.059	-.066	-.047	-.053	-.052	-.048	-.059	-.052	-.057	-.047
38.00	8.7	-.037	- - -	-.059	- - -	-.056	- - -	-.054	- - -	-.065	- - -	-.054	- - -
	42.3	-.046	-.046	-.069	-.072	-.059	-.054	-.063	-.052	-.068	-.050	-.058	-.031
	70.7	-.044	-.046	-.062	-.066	-.053	-.053	-.052	-.051	-.060	-.050	-.057	-.047
41.50	8.7	-.036	-.044	-.054	-.064	-.053	-.052	-.053	-.049	-.058	-.045	-.047	-.029
	42.3	-.041	-.046	-.060	-.066	-.051	-.054	-.053	-.051	-.058	-.056	-.048	-.039
	70.7	-.046	-.047	-.065	-.069	-.054	-.053	-.055	-.052	-.063	-.058	-.057	-.049
44.50	8.7	- - -	-.041	- - -	-.064	- - -	-.053	- - -	-.051	- - -	-.045	- - -	-.029
	42.3	-.046	-.044	-.066	-.064	-.055	-.053	-.058	-.048	-.060	-.052	-.049	-.038
	70.7	-.048	-.048	-.066	-.072	-.055	-.055	-.054	-.055	-.061	-.063	-.056	-.051
47.50	8.7	-.034	-.039	-.054	-.062	-.047	-.048	-.051	-.045	-.052	-.047	-.039	-.028
	42.3	-.003	-.039	-.020	-.064	-.014	-.048	-.011	-.045	-.014	-.052	-.006	-.012
	70.7	-.044	-.045	-.064	-.064	-.050	-.050	-.054	-.051	-.058	-.058	-.029	-.049
50.50	8.7	-.048	- - -	-.072	- - -	-.064	- - -	-.063	- - -	-.066	- - -	-.049	- - -
	42.3	-.051	-.102	-.072	-.073	-.061	-.065	-.062	-.064	-.066	-.068	-.051	-.051
	70.7	-.056	-.108	-.076	-.074	-.076	-.065	-.064	-.064	-.068	-.070	-.059	-.065
53.50	8.7	- - -	-.041	- - -	-.064	- - -	-.055	- - -	-.053	- - -	-.056	- - -	-.039
	42.3	-.046	-.046	-.066	-.066	-.054	-.055	-.053	-.055	-.058	-.063	-.048	-.049
	70.7	-.048	-.048	-.072	-.072	-.055	-.055	-.053	-.055	-.058	-.068	-.052	-.059
56.50	8.7	-.054	-.047	-.076	-.069	-.066	-.065	-.062	-.066	-.069	-.072	-.049	-.048
	42.3	-.056	-.047	-.076	-.069	-.053	-.059	-.062	-.065	-.066	-.070	-.051	-.055
	70.7	-.051	-.052	-.070	-.077	-.058	-.061	-.054	-.066	-.062	-.069	-.047	-.064
59.50	8.7	-.052	-.037	-.077	-.055	-.059	-.046	-.055	-.043	-.068	-.049	-.038	-.029
	42.3	-.057	-.047	-.077	-.066	-.059	-.059	-.055	-.062	-.068	-.070	-.040	-.053
	70.7	-.068	-.051	-.086	-.077	-.063	-.063	-.065	-.066	-.069	-.078	-.048	-.069

Station (in.)	Lateral dimension (% fuselage radius)	Angle of attack, degrees: 10 Upper surface	10 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	-0.024	0.113	-0.031	0.156	-0.034	0.180	-0.054	0.209	-0.055	0.224	-0.043	0.306
	42.3	-.027	.092	-.039	.125	-.046	.146	-.074	.158	-.088	.181	-.106	.230
	70.7	-.031	.053	-.057	.065	-.066	.068	-.108	.060	-.127	.063	-.143	.077
15	8.7	-.050	-.064	-.058	.105	-.056	.130	-.069	.156	-.068	.189	-.060	.251
	42.3	-.058	.038	-.069	.069	-.072	.087	-.100	.098	-.117	.119	-.133	.166
	70.7	-.062	.010	-.082	.020	-.092	.023	-.123	.011	-.138	.011	-.145	.023
20	8.7	-.069	.023	-.068	.058	-.066	.082	-.077	.106	-.076	.134	-.068	.204
	42.3	-.072	.004	-.080	.031	-.085	.046	-.110	.055	-.127	.070	-.152	.120
	70.7	-.082	-.027	-.100	-.024	-.106	-.020	-.131	-.037	-.143	-.035	-.146	-.024
25	8.7	-.070	-.006	-.068	.031	-.058	.051	-.069	.067	-.071	.099	-.064	.159
	42.3	-.090	-.016	-.082	.004	-.087	.015	-.115	.024	-.138	.037	-.155	.082
	70.7	-.090	-.049	-.102	-.044	-.105	-.044	-.126	-.059	-.138	-.064	-.145	-.054
28.50	8.7	-.069	-.008	-.059	.023	-.054	-.046	.064	.065	-.069	.088	-.063	.143
	42.3	-.077	-.021	-.080	0	-.082	.010	-.110	.013	-.136	.027	-.150	.074
	70.7	-.090	-.051	-.097	-.049	-.097	-.047	-.121	-.069	-.136	-.068	-.143	-.067
31.50	8.7	-.072	-.062	-.067	.005	-.058	.015	-.070	.044	-.075	.069	-.074	.125
	42.3	-.078	-.037	-.080	-.018	-.082	-.005	-.119	-.002	-.138	.014	-.155	.054
	70.7	-.090	-.060	-.093	-.059	-.097	-.056	-.118	-.079	-.127	-.084	-.135	-.082
34.50	8.7	-.054	-.018	-.046	.007	-.038	.026	-.048	.044	-.052	.066	-.053	.120
	42.3	-.068	-.037	-.070	-.018	-.075	-.005	-.110	-.005	-.129	.007	-.145	.049
	70.7	-.080	-.060	-.082	-.059	-.085	-.056	-.108	-.079	-.117	-.086	-.124	-.084
38.00	8.7	-.062	- - -	-.054	- - -	-.046	- - -	-.059	- - -	-.068	- - -	-.073	- - -
	42.3	-.072	-.044	-.079	-.009	-.085	-.015	-.125	-.018	-.145	-.004	-.164	.037
	70.7	-.075	-.060	-.080	-.065	-.077	-.061	-.102	-.089	-.115	-.099	-.122	-.092
41.50	8.7	-.058	-.029	-.047	-.008	-.041	.013	-.057	.024	-.066	.047	-.071	.095
	42.3	-.068	-.049	-.070	-.031	-.077	-.025	-.119	-.028	-.138	-.012	-.152	.027
	70.7	-.078	-.069	-.080	-.069	-.079	-.068	-.105	-.092	-.117	-.099	-.124	-.099
44.50	8.7	- - -	-.034	- - -	-.008	- - -	.005	- - -	.013	- - -	.035	- - -	.090
	42.3	-.069	-.046	-.075	-.029	-.085	-.026	-.126	-.028	-.140	-.012	-.153	.023
	70.7	-.075	-.070	-.080	-.078	-.077	-.027	-.100	-.100	-.115	-.107	-.119	-.104
47.50	8.7	-.049	-.031	-.039	-.008	-.035	.007	-.051	.019	-.066	.037	-.069	.081
	42.3	-.021	-.044	-.026	-.031	-.028	-.026	-.061	-.026	-.074	-.014	-.078	.018
	70.7	-.070	-.070	-.072	-.072	-.075	-.077	-.098	-.100	-.107	-.086	-.111	-.104
50.50	8.7	-.060	- - -	-.049	- - -	-.046	- - -	-.069	- - -	-.084	- - -	-.084	- - -
	42.3	-.070	-.063	-.079	-.050	-.089	-.044	-.125	-.046	-.136	-.035	-.143	-.002
	70.7	-.079	-.085	-.080	-.090	-.079	-.092	-.105	-.115	-.116	-.125	-.114	-.124
53.50	8.7	- - -	-.046	- - -	-.029	- - -	-.013	- - -	-.005	- - -	.014	- - -	.061
	42.3	-.065	-.060	-.078	-.049	-.085	-.046	-.119	-.043	-.125	-.035	-.126	-.004
	70.7	-.070	-.080	-.072	-.088	-.075	-.087	-.092	-.112	-.107	-.122	-.104	-.124
56.50	8.7	-.060	-.061	-.049	-.047	-.048	-.028	-.077	-.018	-.088	.003	-.086	.035
	42.3	-.069	-.069	-.080	-.058	-.087	-.053	-.120	-.056	-.125	-.048	-.125	-.023
	70.7	-.068	-.090	-.067	-.096	-.077	-.100	-.088	-.021	-.091	-.130	-.127	-.038
59.50	8.7	-.049	-.048	-.034	-.026	-.046	-.015	-.069	-.007	-.079	.013	-.080	.054
	42.3	-.067	-.069	-.079	-.056	-.087	-.055	-.110	-.028	-.115	-.048	-.120	-.027
	70.7	-.072	-.092	-.075	-.098	-.075	-.103	-.098	-.131	-.099	-.139	-.110	-.144

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	0.021	0.030	0.052	0.030	0.094	0.004	0.105
	42.3	.068	.020	.071	.031	.025	.021	.030	.050	.031	.088	.004	.087
	70.7	.058	.018	.064	.031	.022	.020	.030	.040	.031	.070	.002	.063
15	8.7	.030	-.012	.039	-.001	-.010	-.011	-.008	.012	-.093	.049	-.013	.055
	42.3	.028	-.020	.032	-.006	0	-.020	-.010	.003	-.093	.039	-.013	.035
	70.7	.013	-.016	.029	-.003	-.012	-.020	-.005	.003	-.093	.028	-.014	.017
20	8.7	-.004	-.037	.004	-.026	-.038	-.040	-.030	-.020	-.030	.019	-.050	.017
	42.3	-.012	-.037	0	-.029	-.039	-.042	-.032	-.021	-.030	.009	-.054	.005
	70.7	-.024	-.042	-.011	-.030	-.042	-.049	-.035	-.028	-.031	-.008	-.057	-.017
25	8.7	-.022	-.047	-.011	-.036	-.051	-.060	-.045	-.032	-.036	-.004	-.056	-.005
	42.3	-.032	-.049	-.021	-.038	-.061	-.060	-.050	-.035	-.041	-.019	-.063	-.015
	70.7	-.042	-.052	-.029	-.041	-.061	-.061	-.050	-.040	-.043	-.021	-.073	-.035
28.50	8.7	-.024	-.049	-.016	-.036	-.056	-.059	-.048	-.035	-.036	-.006	-.055	-.013
	42.3	-.034	-.045	-.021	-.036	-.060	-.060	-.050	-.038	-.037	-.011	-.057	-.015
	70.7	-.044	-.054	-.031	-.041	-.063	-.061	-.052	-.040	-.043	-.021	-.065	-.037
31.50	8.7	-.042	-.050	-.031	-.041	-.069	-.066	-.058	-.042	-.041	-.019	-.060	-.025
	42.3	-.042	-.052	-.032	-.041	-.069	-.069	-.058	-.045	-.041	-.026	-.063	-.035
	70.7	-.057	-.057	-.041	-.041	-.071	-.069	-.059	-.049	-.049	-.031	-.075	-.045
34.50	8.7	-.027	-.044	-.013	-.033	-.049	-.061	-.038	-.040	-.028	-.011	-.044	-.015
	42.3	-.034	-.044	-.026	-.031	-.059	-.061	-.047	-.040	-.031	-.019	-.048	-.025
	70.7	-.044	-.052	-.031	-.038	-.061	-.063	-.048	-.042	-.035	-.026	-.063	-.044
38.00	8.7	-.042	- - -	-.031	- - -	-.066	- - -	-.055	- - -	-.039	- - -	-.054	- - -
	42.3	-.052	-.052	-.041	-.041	-.073	-.066	-.060	-.050	-.042	-.029	-.057	-.035
	70.7	-.044	-.052	-.032	-.039	-.062	-.063	-.050	-.045	-.033	-.029	-.056	-.045
41.50	8.7	-.037	-.047	-.029	-.038	-.010	-.063	-.050	-.048	-.031	-.021	-.045	-.027
	42.3	-.043	-.050	-.031	-.040	-.010	-.064	-.050	-.049	-.031	-.030	-.050	-.042
	70.7	-.059	-.052	-.038	-.040	-.066	-.064	-.052	-.049	-.039	-.031	-.058	-.048
44.50	8.7	- - -	-.044	- - -	-.034	- - -	-.063	- - -	-.048	- - -	-.021	- - -	-.013
	42.3	-.052	-.044	-.040	-.033	-.071	-.063	-.055	-.049	-.038	-.029	-.054	-.015
	70.7	-.054	-.052	-.041	-.041	-.070	-.071	-.052	-.050	-.040	-.036	-.060	-.056
47.50	8.7	-.034	-.042	-.024	-.032	-.059	-.061	-.045	-.042	-.029	-.020	-.044	-.019
	42.3	-.002	-.042	.010	-.032	-.019	-.060	-.005	-.042	.088	-.023	-.005	-.016
	70.7	-.047	-.050	-.034	-.035	-.061	-.061	-.048	-.048	-.032	-.032	-.055	-.001
50.50	8.7	-.052	- - -	-.043	- - -	-.076	- - -	-.062	- - -	-.042	- - -	-.001	- - -
	42.3	-.055	-.055	-.045	-.046	-.074	-.074	-.061	-.060	-.042	-.041	-.004	-.056
	70.7	-.064	-.062	-.051	-.051	-.079	-.079	-.062	-.060	-.046	-.049	-.005	-.070
53.50	8.7	- - -	-.044	- - -	.036	- - -	-.064	- - -	-.051	- - -	-.031	- - -	-.044
	42.3	-.052	-.050	-.041	-.039	-.069	-.070	-.052	-.053	-.034	-.036	-.048	-.049
	70.7	-.052	-.052	-.041	-.043	-.069	-.071	-.051	-.054	-.038	-.043	-.055	-.067
56.50	8.7	-.062	-.046	-.051	-.043	-.079	-.081	-.062	-.067	-.040	-.041	-.047	-.051
	42.3	-.062	-.048	-.051	-.043	-.079	-.073	-.060	-.060	-.040	-.041	-.051	-.051
	70.7	-.055	-.056	-.043	-.048	-.072	-.075	-.053	-.066	-.031	-.045	-.050	-.070
59.50	8.7	-.056	-.026	-.052	-.018	-.073	-.053	-.059	-.039	-.030	-.014	-.041	-.030
	42.3	-.056	-.045	-.052	-.040	-.073	-.073	-.059	-.060	-.031	-.041	-.041	-.051
	70.7	-.066	-.055	-.053	-.045	-.078	-.075	-.062	-.063	-.032	-.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	0.225	-0.061	0.251	-0.045	0.297
	42.3	-.018	.103	-.033	.127	-.060	.144	-.058	.173	-.096	.185	-.109	.222
	70.7	-.028	.064	-.045	.070	-.085	.062	-.087	.075	-.133	.059	-.139	.071
15	8.7	-.047	.082	-.052	.105	-.070	.132	-.055	.165	-.093	.190	-.067	.234
	42.3	-.049	.052	-.063	.070	-.088	.083	-.085	.107	-.128	.119	-.141	.151
	70.7	-.058	.022	-.075	.021	-.110	.013	-.107	.025	-.146	.008	-.148	.220
20	8.7	-.060	.034	-.065	.043	-.078	.082	-.063	.115	-.083	.140	-.074	.181
	42.3	-.068	.021	-.075	.065	-.099	.041	-.095	.066	-.142	.079	-.149	.109
	70.7	-.078	-.026	-.094	-.018	-.122	-.030	-.117	-.020	-.152	-.041	-.149	-.029
25	8.7	-.066	.007	-.064	.032	-.070	.049	.057	.077	-.078	.100	-.071	.141
	42.3	-.071	-.068	-.077	.006	-.102	.013	-.103	.035	-.149	.043	-.157	.071
	70.7	-.078	-.038	-.095	-.036	-.122	-.052	-.115	-.045	-.147	-.068	-.149	-.061
28.50	8.7	-.059	-.003	-.058	.025	-.065	.041	-.052	.070	-.072	.089	-.069	.131
	42.3	-.069	-.013	-.075	.004	-.098	.006	-.097	.025	-.144	.033	-.157	.059
	70.7	-.086	-.045	-.094	-.045	-.115	-.060	-.108	-.053	-.144	-.078	-.147	-.069
31.50	8.7	-.066	-.010	-.064	.006	-.072	.021	-.060	.055	-.083	.069	-.079	.106
	42.3	-.068	-.028	-.075	-.016	-.098	-.011	-.102	.006	-.152	.011	-.164	.041
	70.7	-.086	-.050	-.093	-.054	-.110	-.073	-.104	-.065	-.139	-.091	-.144	-.048
34.50	8.7	-.048	-.008	-.045	.008	-.049	.021	-.035	.053	-.061	.069	-.059	.101
	42.3	-.063	-.028	-.064	-.015	-.092	-.014	-.095	.005	-.144	.008	-.149	.033
	70.7	-.070	-.049	-.076	-.052	-.098	-.072	-.095	-.065	-.131	-.093	-.131	-.087
38.00	8.7	-.056	- - -	-.047	- - -	-.060	- - -	-.046	- - -	-.078	- - -	-.079	- - -
	42.3	-.067	-.036	-.073	-.025	-.105	-.024	-.113	-.005	-.163	-.002	-.170	.023
	70.7	-.068	-.054	-.075	-.063	-.092	-.080	-.087	-.073	-.123	-.098	-.127	-.099
41.50	8.7	-.048	-.018	-.043	-.004	-.052	.006	-.043	.013	-.073	.047	-.074	.121
	42.3	-.060	-.039	-.065	-.030	-.095	-.009	-.104	-.013	-.152	-.012	-.157	.011
	70.7	-.068	-.061	-.075	-.065	-.095	-.087	-.090	-.077	-.123	-.105	-.129	-.101
44.50	8.7	- - -	-.026	- - -	-.013	- - -	.001	- - -	-.025	- - -	.038	- - -	.071
	42.3	-.061	-.037	-.065	-.026	-.102	-.029	-.113	-.015	-.154	-.012	-.159	.012
	70.7	-.068	-.067	-.074	-.072	-.092	-.090	-.087	-.085	-.123	-.113	-.127	-.111
47.50	8.7	-.040	-.019	-.035	-.008	-.047	-.100	-.037	.026	-.073	.038	-.074	.071
	42.3	-.011	-.037	-.015	-.030	-.048	-.031	-.047	-.015	-.093	-.115	-.081	.006
	70.7	-.061	-.061	-.066	-.066	-.089	-.090	-.083	-.085	-.115	-.113	-.119	-.111
50.50	8.7	-.049	- - -	-.045	- - -	-.060	- - -	-.055	- - -	-.093	- - -	-.091	- - -
	42.3	-.016	-.058	-.073	-.048	-.109	-.049	-.015	-.015	-.147	-.034	-.149	-.014
	70.7	-.068	-.078	-.075	-.085	-.095	-.110	-.090	-.001	-.123	-.133	-.124	-.129
53.50	8.7	- - -	-.037	- - -	-.025	- - -	-.019	- - -	.005	- - -	-.015	- - -	.049
	42.3	-.061	-.049	-.070	-.045	-.105	-.049	-.101	-.035	-.135	-.037	-.134	-.019
	70.7	-.066	-.078	-.069	-.082	-.088	-.105	-.080	-.097	-.113	-.131	-.109	-.129
56.50	8.7	-.048	-.060	-.045	-.043	-.068	-.035	-.064	- - -	-.098	.001	-.097	.032
	42.3	-.063	-.068	-.074	-.054	-.107	-.061	-.105	- - -	-.139	-.048	-.137	-.025
	70.7	-.061	-.090	-.064	-.094	-.081	-.012	- - -	- - -	-.100	-.139	-.100	-.136
59.50	8.7	-.046	-.039	-.044	-.027	-.061	- - -	- - -	- - -	-.089	-.091	-.082	.045
	42.3	-.060	-.066	-.073	-.054	-.101	- - -	- - -	- - -	-.119	-.049	-.121	-.031
	70.7	-.059	-.090	-.066	-.094	- - -	- - -	- - -	- - -	-.111	-.142	-.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	0.089	0.017	0.063	0.028	0.043	0.039	-0.049	0.068	0.029	0.096	0.019	0.128
	42.3	-.018	.017	.040	.027	.041	.033	-.049	.066	.030	.087	.019	.114
	70.7	.069	.017	.056	.027	.033	.033	-.049	.060	.030	.075	.015	.085
15	8.7	.044	-.016	.024	-.010	.004	0	.010	.029	-.006	.049	-.016	.080
	42.3	.036	-.024	.021	-.013	.002	-.008	.008	.019	-.008	.038	-.017	.060
	70.7	.025	-.020	.019	-.013	.001	-.006	.010	.019	-.006	.028	-.019	.041
20	8.7	.005	-.045	-.010	-.038	-.026	-.035	-.019	.002	-.030	.014	-.032	.041
	42.3	-.003	-.042	-.011	-.037	-.027	-.034	-.017	-.010	-.030	.006	-.035	-.023
	70.7	-.015	-.045	-.021	-.040	-.033	-.036	-.021	-.018	-.032	-.008	-.045	.002
25	8.7	-.015	-.051	-.025	-.047	-.033	-.047	-.029	-.021	-.039	-.008	-.034	.017
	42.3	-.027	-.050	-.035	-.047	-.045	-.047	-.037	-.021	-.042	-.011	-.047	.004
	70.7	-.034	-.054	-.040	-.050	-.047	-.048	-.037	-.029	-.038	-.022	-.052	-.018
28.50	8.7	-.025	-.051	-.038	-.048	-.047	-.047	-.038	-.024	-.042	-.011	-.042	.008
	42.3	-.032	-.053	-.039	-.050	-.047	-.047	-.038	-.024	-.042	-.016	-.045	.002
	70.7	-.039	-.057	-.042	-.051	-.052	-.052	-.040	-.031	-.050	-.027	-.056	-.018
31.50	8.7	-.036	-.054	-.048	-.048	-.059	-.059	-.047	-.034	-.049	-.020	-.045	0
	42.3	-.039	-.054	-.049	-.048	-.056	-.056	-.047	-.037	-.049	-.030	-.045	-.013
	70.7	-.052	-.056	-.048	-.055	-.054	-.054	-.047	-.034	-.050	-.031	-.056	-.027
34.50	8.7	-.023	-.045	-.047	-.048	-.037	-.048	-.024	-.028	-.029	-.119	-.026	.002
	42.3	-.032	-.044	-.040	-.045	-.047	-.047	-.031	-.028	-.037	-.030	-.035	-.008
	70.7	-.039	-.042	-.043	-.044	-.044	-.044	-.031	-.027	-.040	-.030	-.045	-.024
38.00	8.7	-.034	---	-.042	---	-.039	---	-.047	---	-.045	---	-.027	---
	42.3	-.052	-.053	-.048	-.055	-.045	-.059	-.047	-.036	-.049	-.030	-.045	-.018
	70.7	-.044	-.052	-.040	-.050	-.049	-.052	-.034	-.031	-.040	-.031	-.052	-.027
41.50	8.7	-.034	-.046	-.040	-.050	-.043	-.055	-.034	-.034	-.038	-.026	-.023	-.010
	42.3	-.041	-.046	-.043	-.053	-.050	-.054	-.035	-.034	-.038	-.032	-.035	-.024
	70.7	-.046	-.052	-.040	-.051	-.055	-.056	-.034	-.037	-.042	-.038	-.055	-.025
44.50	8.7	---	-.044	---	-.050	---	-.055	---	-.034	---	-.024	.002	-.014
	42.3	-.046	-.046	-.052	-.050	-.057	-.053	-.042	-.034	-.042	-.030	-.037	-.018
	70.7	-.053	-.054	-.052	-.058	-.057	-.057	-.041	-.040	-.045	-.045	-.045	-.027
47.50	8.7	-.034	-.043	-.040	-.043	-.047	-.048	-.031	-.033	-.032	-.022	-.034	-.010
	42.3	.003	-.043	-.001	-.045	-.048	-.048	.010	-.030	.003	-.028	.014	-.018
	70.7	-.044	-.046	-.045	-.048	-.048	-.045	-.034	-.031	-.038	-.035	-.037	-.035
50.50	8.7	-.034	---	-.040	---	-.037	---	-.043	---	-.046	---	-.038	---
	42.3	-.036	-.033	-.033	-.040	-.035	-.037	-.047	-.043	-.045	-.050	-.038	-.037
	70.7	-.044	-.043	-.040	-.040	-.047	-.043	-.043	-.043	-.050	-.052	-.047	-.039
53.50	8.7	---	-.045	---	-.040	---	-.037	---	-.039	---	-.034	---	-.029
	42.3	-.045	-.033	-.040	-.037	-.035	-.033	-.033	-.044	-.040	-.042	-.042	-.039
	70.7	-.035	-.037	-.035	-.033	-.037	-.040	-.033	-.046	-.042	-.048	-.040	-.047
56.50	8.7	-.034	-.033	-.037	-.037	-.033	-.034	-.043	-.043	-.046	-.043	-.033	-.041
	42.3	-.034	-.034	-.033	-.036	-.033	-.033	-.043	-.043	-.046	-.043	-.037	-.047
	70.7	-.040	-.041	-.046	-.037	-.034	-.034	-.043	-.050	-.033	-.058	-.037	-.046
59.50	8.7	-.052	-.027	-.037	-.037	-.041	-.034	-.046	-.033	-.043	-.033	-.037	-.018
	42.3	-.053	-.032	-.037	-.041	-.043	-.048	-.047	-.048	-.042	-.043	-.036	-.045
	70.7	-.075	-.036	-.037	-.047	-.043	-.044	-.043	-.050	-.043	-.058	-.041	-.048

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	0.142	-0.005	0.140	-0.027	0.200	-0.022	0.244	-0.040	0.270	-0.015	0.314
	42.3	-.003	.113	-.014	.130	-.043	.157	-.047	.1[illegible]	-.08[illegible]	.20[illegible]	-.080	.2[illegible]
	70.7	-.009	.079	-.047	.071	-.042	.082	-.081	.0[illegible]4	-.126	.07[illegible]	-.10[illegible]	.10[illegible]
15	8.7	-.034	.084	-.032	.107	-.03[illegible]	.1[illegible]	-.045	.1[illegible]	-.063	.210	-.035	.17[illegible]
	42.3	-.036	.0[illegible]	-.042	.071	-.02[illegible]	.0[illegible]	-.07[illegible]	.150	-.11[illegible]	.15[illegible]	-.112	.1[illegible]
	70.7	-.044	.032	-.077	.02[illegible]	-.04[illegible]	.031	-.11[illegible]	.041	-.15[illegible]	.02[illegible]	-.118	.053
20	8.7	-.031	.042	-.07[illegible]	.041	-.04[illegible]	.03[illegible]	-.048	.1[illegible]4	-.070	.154	-.03[illegible]	.218
	42.3	-.056	.024	-.07[illegible]	.043	-.088	.054	-.08[illegible]	.150	-.111	.04[illegible]	-.12[illegible]	.14[illegible]
	70.7	-.068	-.00[illegible]	-.07[illegible]	-.018	-.111	-.017	-.108	.042	-.140	-.030	-.123	-.09[illegible]
25	8.7	-.052	.015	-.07[illegible]	.031	-.062	.110	-.048	-.140	-.067	.115	-.042	.17[illegible]
	42.3	-.066	.001	-.08[illegible]	.004	-.04[illegible]	.02[illegible]	-.088	.092	-.042	.05[illegible]	-.03[illegible]	.10[illegible]
	70.7	-.075	-.008	-.07[illegible]	-.042	-.106	-.04[illegible]	-.110	-.008	-.139	-.01[illegible]	-.12[illegible]	-.01[illegible]
28.50	8.7	-.035	.011	-.012	.012	-.03[illegible]	.03[illegible]	-.04[illegible]	.04[illegible]	-.07[illegible]	.107	-.042	.12[illegible]
	42.3	-.04[illegible]	-.006	-.07[illegible]	0	-.088	.02[illegible]	-.07[illegible]	.05[illegible]	-.117	.04[illegible]	-.130	.04[illegible]
	70.7	-.075	-.03[illegible]	-.07[illegible]	-.047	-.009	-.04[illegible]	-.10[illegible]	-.04[illegible]	-.137	-.06[illegible]	-.12[illegible]	-.03[illegible]
31.50	8.7	-.056	-.007	-.06[illegible]	.007	-.03[illegible]	.03[illegible]	-.047	.072	-.075	.089	-.03[illegible]	.132
	42.3	-.061	-.022	-.07[illegible]	-.018	-.088	-.00[illegible]	-.08[illegible]	.011	-.148	.024	-.13[illegible]	.07[illegible]
	70.7	-.075	-.041	-.07[illegible]	-.057	-.04[illegible]	-.09[illegible]	-.07[illegible]	-.05[illegible]	-.131	-.081	-.113	-.09[illegible]
34.50	8.7	-.036	-.009	-.047	.007	-.03[illegible]	.01[illegible]	-.025	.114	-.050	.080	-.03[illegible]	.140
	42.3	-.05[illegible]	-.017	-.05[illegible]	-.018	-.07[illegible]	-.00[illegible]	-.03[illegible]	.023	-.13[illegible]	.02[illegible]	-.12[illegible]	.07[illegible]
	70.7	-.064	-.041	-.085	-.057	-.085	-.06[illegible]	-.086	-.05[illegible]	-.072	-.082	-.102	-.0[illegible]
38.00	8.7	-.048	---	-.055	---	-.044	---	-.037	---	-.064	---	-.051	.122
	42.3	-.058	-.026	-.077	-.028	-.04[illegible]	-.014	-.114	.014	-.159	.007	-.14[illegible]	.061
	70.7	-.058	-.044	-.079	-.062	-.08[illegible]	-.05[illegible]	-.084	-.06[illegible]	-.116	-.09[illegible]	-.00[illegible]	-.04[illegible]
41.50	8.7	-.041	-.017	-.047	-.008	-.042	.016	-.032	.051	-.063	.05[illegible]	-.051	.116
	42.3	-.048	-.031	-.069	-.033	-.08[illegible]	-.020	-.09[illegible]	.003	-.140	-.002	-.13[illegible]	.045
	70.7	-.064	-.051	-.079	-.067	-.08[illegible]	-.07[illegible]	-.086	-.071	-.120	-.101	-.102	-.07[illegible]
44.50	8.7	---	.019	---	-.010	---	.007	---	.049	---	.03[illegible]	---	.110
	42.3	-.05[illegible]	-.026	-.06[illegible]	-.03[illegible]	-.04[illegible]	-.017	-.110	.00[illegible]	-.150	.00[illegible]	-.13[illegible]	.04[illegible]
	70.7	-.061	-.056	-.07[illegible]	-.07[illegible]	-.08[illegible]	-.08[illegible]	-.08[illegible]	-.077	-.116	-.110	-.100	-.08[illegible]
47.50	8.7	-.026	-.017	-.026	-.017	-.03[illegible]	.017	-.028	.046	-.063	.046	-.045	.104
	42.3	-.002	-.028	-.002	-.028	-.03[illegible]	-.018	-.046	.002	-.075	-.00[illegible]	-.05[illegible]	.042
	70.7	-.056	-.05[illegible]	-.056	-.05[illegible]	-.075	-.08[illegible]	-.076	-.078	-.110	-.110	-.0[illegible]0	-.08[illegible]
50.50	8.7	-.046	---	-.046	---	-.046	---	-.048	---	-.089	---	-.064	.158
	42.3	-.017	-.049	-.017	-.049	-.101	-.04[illegible]	-.110	-.019	-.140	-.03[illegible]	-.122	.015
	70.7	-.066	-.073	-.066	-.073	-.08[illegible]	-.10[illegible]	-.086	-.09[illegible]	-.121	-.129	-.100	-.102
53.50	8.7	---	-.031	---	-.031	---	-.009	---	-.023	---	.026	---	.080
	42.3	-.05[illegible]	-.046	-.051	-.046	-.03[illegible]	-.04[illegible]	-.07[illegible]	-.018	-.131	-.02[illegible]	-.05[illegible]	.015
	70.7	-.056	-.066	-.056	-.066	-.077	-.09[illegible]	-.07[illegible]	-.09[illegible]	-.109	-.132	-.08[illegible]	.102
56.50	8.7	-.046	-.05[illegible]	-.046	-.04[illegible]	-.05[illegible]	-.010	-.058	.008	-.09[illegible]	.020	-.06[illegible]	.06[illegible]
	42.3	-.056	-.06[illegible]	-.056	-.06[illegible]	-.09[illegible]	-.03[illegible]	-.09[illegible]	-.03[illegible]	-.133	-.022	-.109	.008
	70.7	-.05[illegible]	-.080	-.06[illegible]	-.09[illegible]	-.057	-.08[illegible]	-.06[illegible]	-.09[illegible]	-.040	-.117	-.07[illegible]	-.101
59.50	8.7	-.040	-.024	-.042	-.03[illegible]	-.03[illegible]	-.009	-.050	.017	-.068	.03[illegible]	-.066	.047
	42.3	-.05[illegible]	-.05[illegible]	-.07[illegible]	-.06[illegible]	-.07[illegible]	-.03[illegible]	-.08[illegible]	-.03[illegible]	-.09[illegible]	-.02[illegible]	-.09[illegible]	-.002
	70.7	-.06[illegible]	-.08[illegible]	-.07[illegible]	-.09[illegible]	-.06[illegible]	-.09[illegible]	-.07[illegible]	-.09[illegible]	-.08[illegible]	-.118	-.08[illegible]	-.116

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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	0.091	0.035	0.080	-0.038	---	---	0.047	0.081	0.045	0.109	0.043	0.138
	42.3	.084	.035	.077	-.041	---	---	.045	.076	.045	.102	.043	.126
	70.7	.075	.035	.070	-.036	---	---	.045	.066	.045	.087	.041	.105
15	8.7	.046	-.001	.034	.003	---	---	.007	-.035	.008	.064	.010	.088
	42.3	.043	-.008	.032	-.005	---	---	.007	-.026	.008	.049	.010	.072
	70.7	.031	-.003	.030	.001	---	---	.007	-.024	.008	.040	.008	.057
20	8.7	.007	-.032	.003	-.029	---	---	-.024	.002	-.022	.026	-.017	.048
	42.3	.002	-.032	-.002	-.027	---	---	-.027	-.003	-.022	.016	-.018	.039
	70.7	-.011	-.033	-.013	-.034	---	---	-.030	-.012	-.024	.002	-.013	.015
25	8.7	-.012	-.041	-.016	-.045	---	---	-.039	-.022	-.031	-.001	-.025	-.022
	42.3	-.022	-.041	-.029	-.034	---	---	-.041	-.022	-.036	-.003	-.029	-.018
	70.7	-.032	-.040	-.034	-.045	---	---	-.043	-.030	-.029	-.014	-.037	-.004
28.50	8.7	-.022	-.041	-.025	-.034	---	---	-.041	-.022	-.033	-.007	-.025	-.020
	42.3	-.027	-.041	-.028	-.034	---	---	-.041	-.022	-.033	-.007	-.029	-.011
	70.7	-.033	-.049	-.035	-.046	---	---	-.043	-.032	-.041	-.019	-.037	-.008
31.50	8.7	-.039	-.046	-.038	-.045	---	---	-.051	-.032	-.040	-.012	-.029	-.008
	42.3	-.040	-.046	-.040	-.048	---	---	-.051	-.030	-.040	-.022	-.032	-.006
	70.7	-.046	-.039	-.050	-.047	---	---	-.051	-.038	-.046	-.027	-.038	-.016
34.50	8.7	-.020	-.040	-.017	-.043	---	---	-.032	-.029	-.022	-.008	-.009	-.010
	42.3	-.030	-.039	-.030	-.038	---	---	-.038	-.029	-.028	-.012	-.018	-.003
	70.7	-.033	-.041	-.035	-.040	---	---	-.039	-.035	-.031	-.022	-.027	-.009
38.00	8.7	-.034	---	-.038	---	---	---	-.046	---	-.036	---	-.016	---
	42.3	-.049	-.049	-.050	-.050	---	---	-.052	-.039	-.041	-.027	-.032	-.008
	70.7	-.039	-.046	-.039	-.024	---	---	-.039	-.036	-.031	-.023	-.026	-.016
41.50	8.7	-.032	-.046	-.035	-.045	---	---	-.041	-.036	-.029	-.022	-.018	-.001
	42.3	-.036	-.046	-.038	-.045	---	---	-.041	-.040	-.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	-.044	-.042	-.045	-.043	---	---	-.046	-.038	-.033	-.022	-.025	-.008
	70.7	-.049	-.051	-.045	-.046	---	---	-.046	-.043	-.036	-.033	-.029	-.016
47.50	8.7	-.032	-.039	-.034	-.035	---	---	-.033	-.032	-.024	-.014	-.010	-.001
	42.3	.009	-.039	-.003	-.035	---	---	-.009	-.033	.017	-.022	-.029	-.007
	70.7	-.040	-.041	-.035	-.040	---	---	-.039	-.036	-.030	-.027	-.023	-.018
50.50	8.7	-.052	---	-.055	---	---	---	-.052	---	-.039	---	-.027	---
	42.3	-.055	-.053	-.055	-.054	---	---	-.051	-.053	-.039	-.041	-.027	-.027
	70.7	-.060	-.058	-.057	-.057	---	---	-.053	-.055	-.046	-.048	-.037	-.039
53.50	8.7	---	-.043	---	---	---	---	---	-.041	---	-.029	---	-.013
	42.3	-.043	-.048	-.045	---	---	---	-.043	-.046	-.031	-.032	-.010	-.020
	70.7	-.049	-.051	---	---	---	---	-.043	-.049	-.032	-.039	-.007	-.032
56.50	8.7	-.060	-.004	---	-.037	---	-.032	-.051	-.045	-.039	-.033	-.024	-.030
	42.3	-.060	-.004	---	-.032	---	-.032	-.052	-.044	-.039	-.034	-.027	-.032
	70.7	0	0	-.032	-.032	-.017	-.032	-.031	-.045	-.029	-.041	-.024	-.043
59.50	8.7	0	-.020	-.032	-.015	-.024	-.015	-.035	-.023	-.022	-.014	-.020	-.009
	42.3	-.001	-.032	-.032	-.026	-.024	-.029	-.035	-.038	-.023	-.034	-.021	-.030
	70.7	-.010	-.046	-.042	-.031	-.035	-.032	-.039	-.043	-.032	-.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	-0.020	0.167	-0.004	0.211	-0.017	0.249	-0.033	0.289
	42.3	.005	.139	-.007	.138	-.009	.173	-.042	.198	-.067	.223
	70.7	.007	.100	-.046	.080	-.045	.092	-.078	.099	-.109	.098
15	8.7	-.014	.109	-.052	.110	-.034	.154	-.033	.199	-.052	.214
	42.3	-.029	.081	-.062	.073	-.044	.109	-.071	.111	-.106	.155
	70.7	-.026	.052	-.075	.058	-.074	.048	-.100	.043	-.119	.039
20	8.7	-.043	.064	-.065	.062	-.047	.102	-.052	.138	-.061	.170
	42.3	-.041	.045	-.075	.035	-.070	.069	-.089	.090	.121	.119
	70.7	-.052	.008	-.097	-.017	-.089	0	-.110	-.004	-.130	.015
25	8.7	-.038	.034	-.066	.028	-.046	.069	-.037	.100	-.054	.119
	42.3	-.053	.019	-.095	.004	-.074	.035	-.096	.054	-.131	.071
	70.7	-.062	-.014	-.103	-.044	-.093	-.027	-.109	-.033	-.129	-.048
28.50	8.7	-.035	-.067	-.063	.023	-.033	.058	-.041	.091	-.093	.116
	42.3	-.048	.014	-.083	-.001	-.072	.030	-.093	.045	-.133	.058
	70.7	-.062	-.019	-.102	-.049	-.089	-.034	-.100	-.041	-.128	-.054
31.50	8.7	-.043	.005	.061	.005	-.048	.040	-.051	.072	-.063	.098
	42.3	-.048	-.004	-.083	-.020	-.074	.010	-.099	.024	-.138	.034
	70.7	-.062	-.029	-.100	-.062	-.084	-.046	-.095	-.055	-.120	-.072
34.50	8.7	-.024	.016	-.044	.004	-.027	.040	-.029	.067	-.039	.090
	42.3	-.034	.001	-.073	-.015	-.065	.007	-.091	.014	-.128	.033
	70.7	-.048	-.025	-.087	-.059	-.074	-.045	-.089	-.057	-.111	-.075
38.00	8.7	-.033	---	-.056	---	-.037	---	-.041	---	-.061	.152
	42.3	-.043	-.007	-.083	-.030	-.074	-.003	-.110	.014	-.146	.121
	70.7	-.043	-.031	-.081	-.063	-.067	-.053	-.081	-.062	-.119	-.082
41.50	8.7	-.024	.005	-.052	-.009	-.029	.023	-.033	.053	-.054	.069
	42.3	-.035	-.014	-.073	-.035	-.070	-.008	-.100	.005	-.138	.013
	70.7	-.049	-.033	-.083	-.072	-.072	-.057	-.086	.024	-.111	-.090
44.50	8.7	---	-.003	---	-.015	---	.016	---	.043	---	.061
	42.3	-.038	-.013	-.081	-.035	-.076	-.008	-.109	.005	-.141	.009
	70.7	-.048	-.041	-.083	-.081	-.070	-.065	-.083	-.080	-.109	-.099
47.50	8.7	-.016	.005	-.042	-.009	-.025	.021	-.033	.043	-.056	.058
	42.3	.015	-.010	-.023	-.035	-.017	-.008	-.040	.005	-.053	.005
	70.7	-.040	-.035	-.075	-.075	-.065	-.063	-.080	-.032	-.100	-.099
50.50	8.7	-.032	---	-.056	---	-.038	---	-.054	---	-.079	---
	42.3	-.041	-.033	-.085	-.059	-.084	-.034	-.109	-.023	-.135	-.015
	70.7	-.052	-.062	-.095	-.100	-.074	-.084	-.086	-.099	-.111	-.114
53.50	8.7	---	-.014	---	-.040	---	.002	---	.022	---	.034
	42.3	-.035	-.029	-.083	-.054	-.074	-.029	-.099	-.022	-.120	-.015
	70.7	-.043	-.052	-.078	-.091	-.065	-.076	-.076	-.091	-.100	-.112
56.50	8.7	-.029	-.030	-.056	-.041	-.044	-.017	-.061	-.002	-.082	-.080
	42.3	-.040	-.037	-.087	-.060	-.084	-.044	-.100	-.033	-.121	-.032
	70.7	-.034	-.060	-.068	-.098	-.054	-.091	-.070	-.104	-.087	-.124
59.50	8.7	-.015	-.014	-.041	-.022	-.035	-.006	-.053	-.008	-.071	-.034
	42.3	-.034	-.031	-.075	-.058	-.076	-.040	-.090	-.032	-.108	-.032
	70.7	-.039	-.062	-.070	-.097	-.063	-.091	-.075	-.100	-.099	-.134

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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 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	0.135	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	.031	.009	.041	-.009	.050
15	8.7	-.035	.028	.035	.003	.003	.003	0	.006	-.013	.035	-.028	.066
	42.3	.022	-.025	.019	0	.003	.003	0	.003	-.013	.019	-.028	.038
	70.7	.006	-.022	.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	-.053	.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	-.053	.006
	70.7	-.022	-.041	0	-.028	-.028	-.025	-.031	-.025	-.035	-.022	-.059	-.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	-.016	-.041	0	-.028	-.028	-.028	-.039	-.019	-.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	-.028	-.039	-.009	-.050	.003	-.063	.009
	70.7	.003	-.053	0	-.028	-.025	-.025	-.028	0	-.038	.003	-.066	.006
34.50	8.7	.003	-.060	.013	-.028	-.006	-.028	-.028	0	-.035	.009	-.063	.053
	42.3	.182	-.060	.009	-.028	-.013	-.025	-.031	.003	-.044	.009	-.072	.041
	70.7	.016	-.060	.006	-.025	-.003	0	-.028	.003	-.053	-.028	-.091	.041
37.50	8.7	.022	- - -	.003	- - -	-.031	- - -	-.060	- - -	-.085	- - -	-.116	-.128
	42.3	.025	-.091	.003	-.057	-.034	-.034	-.060	0	-.085	.035	-.122	.066
	70.7	.044	-.104	.022	-.057	-.025	-.028	-.060	.003	-.091	.041	-.156	.081
41.50	8.7	.028	-.104	.003	-.060	-.050	-.056	-.069	-.022	-.091	.009	-.128	.059
	42.3	.013	-.116	0	-.079	-.047	-.028	-.075	-.025	-.097	.009	-.153	.059
	70.7	.025	-.148	0	-.088	-.056	-.028	-.091	-.025	-.129	.019	-.159	.072
44.50	8.7	- - -	-.113	- - -	-.072	- - -	-.060	- - -	-.028	- - -	.003	- - -	.041
	42.3	.003	-.123	-.025	-.088	-.060	-.063	-.091	-.031	-.116	.003	-.153	.038
	70.7	.003	-.151	-.028	-.104	-.075	-.091	-.107	-.056	-.129	-.022	-.184	.034
47.50	8.7	.003	-.097	-.025	-.072	-.060	-.060	-.085	-.034	-.091	-.003	-.122	.034
	42.3	.025	-.116	.003	-.085	-.025	-.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	.006
	70.7	-.028	-.119	-.041	-.088	-.075	-.085	-.091	-.060	-.107	-.028	-.147	.003
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	-.057	-.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	-.057	- - -	-.066	-.006
	70.7	-.013	-.054	-.048	-.032	-.028	-.034	-.034	-.028	- - -	- - -	-.050	-.006
59.50	8.7	-.022	-.038	-.025	-.025	-.028	-.028	-.031	-.028	- - -	- - -	-.044	.003
	42.3	-.022	-.038	-.022	-.025	-.028	-.028	-.031	-.028	- - -	- - -	-.044	-.013
	70.7	-.019	-.035	-.022	-.029	-.028	-.028	-.034	-.028	- - -	- - -	-.038	-.022

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	-0.022	0.122	-0.028	0.144	-0.034	0.184	-0.053	0.197	-0.058	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	-.051	.113	-.053	.144	-.059	.128	-.061	.192	- - -	- - -
	42.3	-.041	.063	-.056	.072	-.066	.097	-.088	.097	-.119	.061	- - -	- - -
	70.7	-.056	.019	-.075	.019	-.091	.019	-.119	.006	-.141	.003	- - -	- - -
20	8.7	-.053	- - -	-.056	- - -	-.059	- - -	-.063	- - -	-.132	.154	- - -	- - -
	42.3	-.053	.034	-.059	.059	-.084	.066	-.094	.072	-.269	.068	- - -	- - -
	70.7	-.066	.003	-.091	.003	-.097	0	-.122	-.022	-.289	-.029	- - -	- - -
25	8.7	-.053	.059	-.059	.034	-.059	.066	-.084	.113	-.090	.132	- - -	- - -
	42.3	-.056	.034	-.075	.003	-.091	.063	-.113	.066	-.154	.093	- - -	- - -
	70.7	-.084	-.013	-.091	-.022	-.119	-.025	-.128	-.028	-.158	-.042	- - -	- - -
28.50	8.7	-.059	.066	-.034	.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	-.128	-.022	-.147	-.028	-.170	-.039	- - -	- - -
31.50	8.7	-.084	.066	-.091	.091	-.116	.128	-.128	.144	-.161	.164	- - -	- - -
	42.3	-.084	.041	-.116	.034	-.138	.072	-.175	.091	-.061	.109	- - -	- - -
	70.7	-.091	.009	-.122	.003	-.153	.003	-.178	-.013	-.039	-.026	- - -	- - -
34.50	8.7	-.091	.084	-.116	.113	-.150	.153	-.178	.166	-.222	.228	- - -	- - -
	42.3	-.116	.072	-.147	.097	-.191	.128	-.241	.128	-.260	.132	- - -	- - -
	70.7	-.128	.056	-.184	.059	-.222	.066	-.263	.059	-.322	.058	- - -	- - -
37.50	8.7	-.153	- - -	-.194	.134	-.241	.153	-.275	.144	-.331	- - -	- - -	- - -
	42.3	-.209	.103	-.244	.134	-.306	.166	-.366	.191	-.453	.235	- - -	- - -
	70.7	-.222	.128	-.300	.128	-.347	.188	-.441	.197	-.550	.231	- - -	- - -
41.50	8.7	-.178	.066	-.191	.153	-.247	.191	-.247	.216	-.328	.299	- - -	- - -
	42.3	-.213	.066	-.272	.147	-.341	.191	-.403	.197	-.511	.260	- - -	- - -
	70.7	-.247	.097	-.250	.166	-.397	.222	-.463	.238	-.550	.293	- - -	- - -
44.50	8.7	- - -	.091	- - -	.097	- - -	.159	- - -	.191	- - -	.238	- - -	- - -
	42.3	-.216	.091	-.263	.097	-.334	.159	-.403	.191	-.511	.228	- - -	- - -
	70.7	-.244	.091	-.028	.097	-.366	.166	-.403	.197	-.479	.254	- - -	- - -
47.50	8.7	-.153	.034	-.184	.097	-.200	.134	-.216	.159	-.251	.196	- - -	- - -
	42.3	-.116	.034	-.147	.097	-.191	.134	-.247	.159	-.350	.196	- - -	- - -
	70.7	-.213	.034	-.253	.097	-.294	.134	-.325	.159	-.408	.196	- - -	- - -
50.50	8.7	-.147	- - -	-.153	- - -	-.138	- - -	-.184	- - -	-.215	- - -	- - -	- - -
	42.3	-.153	.041	-.188	.072	-.244	.097	-.303	.103	-.415	.158	- - -	- - -
	70.7	-.178	.034	-.209	.066	-.222	.091	-.253	.100	-.334	.158	- - -	- - -
53.50	8.7	- - -	.003	- - -	.066	- - -	.081	- - -	.091	- - -	- - -	- - -	- - -
	42.3	-.116	.003	-.128	.050	-.169	.072	-.216	.072	-.302	- - -	- - -	- - -
	70.7	-.116	.028	-.128	.041	-.153	.069	-.184	.069	-.302	- - -	- - -	- - -
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	- - -	- - -	-.085	.041	-.117	.041	-.155	.041	.251	.038
59.50	8.7	-.059	.019	- - -	- - -	-.054	.041	-.079	.041	-.079	.066	-.092	.067
	42.3	-.059	.003	- - -	- - -	-.060	.041	-.082	.041	-.085	.044	-.128	.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	8.7	0.086	0.009	0.068	0.015	0.040	0.029	0.026	0.052	0.010	0.080	0.0	0.109
	42.3	.075	.015	.060	.017	.041	.030	.030	.041	.011	.071	.004	.096
	70.7	.063	.009	.054	.020	.039	.020	.025	.040	.011	.055	.001	.069
15	8.7	.051	-.015	.038	-.001	.018	.010	-.006	.021	-.009	.050	-.019	.070
	42.3	.047	-.011	.030	-.010	.020	0	-.009	.013	-.009	.038	-.024	.060
	70.7	.038	-.010	.028	-.005	.020	-.005	0	.012	-.009	.027	-.022	.036
20	8.7	.020	- - -	.013	- - -	-.010	- - -	-.021	- - -	-.031	- - -	-.039	- - -
	42.3	.011	-.039	.006	-.021	-.011	-.021	-.021	-.008	-.030	.020	-.047	.030
	70.7	-.002	-.038	-.001	-.025	-.021	-.023	-.021	-.011	-.030	0	-.049	-.011
25	8.7	.017	-.042	-.007	-.029	-.024	-.029	-.027	-.011	-.030	.022	-.042	.045
	42.3	-.004	-.041	.003	-.029	-.020	-.029	-.030	-.010	-.036	.017	-.049	.018
	70.7	-.023	-.042	-.010	-.028	-.019	-.030	-.030	-.020	-.039	.001	-.051	.001
28.50	8.7	.013	-.038	0	-.029	-.011	-.012	-.020	.002	-.039	.020	-.048	.031
	42.3	.010	-.037	0	-.029	-.013	-.009	-.018	.006	-.038	.019	-.052	.020
	70.7	-.009	-.037	-.006	-.028	-.012	-.012	-.018	0	-.037	.001	-.060	0
31.50	8.7	.017	-.043	0	-.032	-.017	-.018	-.017	.010	-.038	.036	-.058	.041
	42.3	.017	-.044	.001	-.033	-.014	-.014	-.016	.011	-.031	.021	-.062	.022
	70.7	0	-.042	0	-.019	0	-.010	-.009	.009	-.032	.020	-.071	.020
34.50	8.7	.038	-.055	.020	-.041	.013	-.009	-.031	.001	-.051	.031	-.069	.069
	42.3	.0[illegible]	-.047	.018	-.041	.008	0	-.032	.011	-.058	.032	-.072	.058
	70.7	.0[illegible]	-.048	.020	-.027	.020	.013	-.022	.019	-.059	.036	-.080	.054
38.00	8.7	.040	- - -	.009	- - -	-.010	- - -	-.060	- - -	-.093	- - -	-.119	- - -
	42.3	.040	-.093	.010	-.059	-.018	-.018	-.066	.011	-.107	.047	-.135	.091
	70.7	.0[illegible]	-.103	.031	-.059	.008	-.004	-.059	.032	-.119	.078	-.161	.123
41.50	8.7	.029	-.117	.002	-.086	-.040	-.051	-.079	-.014	-.120	.010	-.148	.071
	42.3	.030	-.122	-.001	-.091	-.041	-.058	-.081	-.017	-.132	.032	-.170	.070
	70.7	.041	-.142	-.001	-.109	-.047	-.062	-.100	-.010	-.159	.042	-.208	.094
44.50	8.7	- - -	-.121	- - -	-.097	- - -	-.061	- - -	-.024	- - -	.020	- - -	.059
	42.3	.011	-.127	-.019	-.100	-.059	-.063	-.097	-.026	-.140	.021	-.180	.061
	70.7	.004	-.159	-.029	-.127	-.069	-.080	-.111	-.041	-.168	.010	-.210	.051
47.50	8.7	.006	-.112	-.021	-.087	-.061	-.069	-.093	-.037	-.130	0	-.149	.047
	42.3	.041	-.120	.020	-.099	-.017	-.079	-.045	-.046	-.080	-.009	-.090	.039
	70.7	-.009	-.138	-.039	-.113	-.082	-.090	-.120	-.057	-.164	-.016	-.188	.039
50.50	8.7	-.011	- - -	-.030	- - -	-.064	- - -	-.090	- - -	-.123	- - -	-.130	- - -
	42.3	-.010	-.105	-.032	-.091	-.062	-.072	-.090	-.049	-.123	-.021	-.131	.021
	70.7	-.024	-.125	-.047	-.101	-.076	-.090	-.101	-.061	-.142	-.029	-.151	.020
53.50	8.7	- - -	-.081	- - -	-.076	- - -	-.069	- - -	-.033	- - -	-.007	- - -	.018
	42.3	-.011	-.088	-.034	-.075	-.068	-.068	-.072	-.030	-.091	-.010	-.099	-.009
	70.7	-.015	-.079	-.030	-.067	-.052	-.068	-.061	-.031	-.082	-.011	-.094	-.003
56.50	8.7	-.008	-.051	-.020	-.048	-.030	-.037	-.050	-.021	-.070	-.005	-.066	.011
	42.3	.013	-.043	-.015	-.037	-.036	-.030	-.050	-.019	-.066	0	-.058	.013
	70.7	.009	-.039	0	-.030	-.015	-.015	-.024	-.010	-.089	.009	-.091	.009
59.50	8.7	.018	-.011	-.001	-.019	-.010	-.010	-.009	-.015	-.031	-.009	-.022	.013
	42.3	.019	-.011	.004	-.012	0	0	-.004	.008	-.018	.011	-.019	.029
	70.7	.014	-.010	0	-.008	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	8.7	-0.018	0.130	-.036	0.161	-0.036	0.189	-0.040	0.232	-0.045	0.270
	42.3	-.015	.110	-.040	.130	-.050	.140	-.057	.175	-.089	.199
	70.7	-.025	.064	-.027	.064	-.070	.064	-.097	.068	-.127	.059
15	8.7	-.030	.100	-.045	.122	-.045	.149	-.041	.192	-.048	.229
	42.3	-.040	.071	-.055	.084	-.069	.100	-.077	.130	-.107	.152
	70.7	-.051	.032	-.071	.030	-.091	.030	-.100	.031	-.118	.026
20	8.7	-.047	- - -	-.050	- - -	-.054	- - -	-.050	- - -	-.050	- - -
	42.3	-.057	.042	-.070	.051	-.076	.073	-.095	.097	-.116	.126
	70.7	-.070	.008	-.091	.005	-.100	.010	-.112	-.009	-.121	-.010
25	8.7	-.052	.054	-.052	.080	-.052	.106	-.060	.149	-.053	.191
	42.3	-.062	.031	-.071	.042	-.084	.060	-.101	.090	-.122	.112
	70.7	-.073	-.005	-.100	-.005	-.100	-.005	-.111	-.018	-.122	-.018
28.50	8.7	-.060	.060	-.069	.082	-.073	.110	-.081	.142	-.097	.189
	42.3	-.069	.041	-.091	.041	-.100	.068	-.121	.090	-.147	.110
	70.7	-.073	-.001	-.104	-.009	-.115	-.009	-.130	-.014	-.146	-.027
31.50	8.7	-.073	.069	-.098	.091	-.098	.121	-.113	.161	-.140	.208
	42.3	-.079	.047	-.116	.052	-.122	.081	-.157	.105	-.190	.131
	70.7	-.094	.006	-.130	0	-.140	.009	-.156	.009	-.169	.002
34.50	8.7	-.096	.099	-.131	.125	-.141	.169	-.188	.201	-.209	.255
	42.3	-.113	.087	-.159	.100	-.187	.124	-.238	.154	-.279	.190
	70.7	-.132	.060	-.174	.061	-.210	.062	-.251	.078	-.282	.088
38.00	8.7	-.171	- - -	-.227	- - -	-.253	- - -	-.316	- - -	-.360	- - -
	42.3	-.201	.121	-.276	.156	-.321	.201	-.411	.228	-.470	.280
	70.7	-.248	.157	-.340	.189	-.380	.229	-.495	.248	-.571	.282
41.50	8.7	-.202	.120	-.248	.167	-.292	.198	-.349	.240	-.380	.298
	42.3	-.236	.121	-.312	.169	-.371	.199	-.460	.234	-.523	.289
	70.7	-.280	.149	-.362	.199	-.430	.230	-.512	.272	-.581	.330
44.50	8.7	- - -	.100	- - -	.150	- - -	.171	- - -	.216	- - -	.216
	42.3	-.232	.100	-.300	.150	-.364	.172	-.457	.214	-.537	.270
	70.7	-.273	.100	-.342	.154	-.398	.181	-.458	.220	-.521	.281
47.50	8.7	-.183	.082	-.219	.121	-.231	.150	-.264	.180	- - -	- - -
	42.3	-.129	.079	-.172	.111	-.209	.141	-.290	.170	- - -	- - -
	70.7	-.239	.073	-.300	.112	-.330	.149	-.378	.178	- - -	- - -
50.50	8.7	-.158	- - -	-.181	- - -	-.190	- - -	-.222	- - -	- - -	- - -
	42.3	-.181	.057	-.223	.079	-.264	.103	-.299	.123	- - -	- - -
	70.7	-.201	.046	-.237	.073	-.248	.100	-.300	.119	- - -	- - -
53.50	8.7	- - -	.032	- - -	.070	- - -	.080	- - -	.089	- - -	- - -
	42.3	-.141	.036	-.155	.064	-.191	.069	-.261	.079	- - -	- - -
	70.7	-.138	.021	-.131	.051	-.156	.062	-.214	.065	- - -	- - -
56.50	8.7	-.089	.041	-.089	.051	-.101	.061	-.125	.076	- - -	.080
	42.3	-.090	.039	-.100	.049	-.132	.053	-.159	.071	- - -	.081
	70.7	-.049	.032	-.061	.040	-.090	.048	-.127	.049	-.189	.049
59.50	8.7	-.041	.044	-.032	.049	-.050	.048	-.068	.047	-.078	.090
	42.3	-.046	.029	-.033	.049	-.054	.048	-.079	.053	-.107	.055
	70.7	-.036	.001	-.029	.020	-.052	.021	-.070	.021	-.109	.021

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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	0.029	0.020	0.043	0.011	0.076
	42.3	---	---	.014	.007	.030	.022	.024	.046	.011	.069
	70.7	---	---	.039	.008	.033	.021	.023	.040	.013	.054
15	8.7	---	---	.029	-.020	.029	.001	-.011	.013	-.017	.048
	42.3	---	---	.026	-.023	.002	-.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	-.020	-.020	-.030	-.020	-.042	0
	70.7	---	---	-.021	-.044	-.021	-.021	-.030	-.020	-.043	-.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	-.020	-.051	-.031
28.50	8.7	---	---	-.018	-.051	-.032	-.035	-.040	-.038	-.041	.003
	42.3	---	---	-.029	-.044	-.019	-.038	-.038	-.035	-.041	-.001
	70.7	---	---	-.039	-.048	-.028	-.039	-.029	-.040	-.046	-.011
31.50	8.7	---	---	-.018	-.048	-.028	-.035	-.010	-.029	-.050	.017
	42.3	---	---	-.020	-.050	-.021	-.030	-.011	-.030	-.044	.004
	70.7	---	---	-.024	-.050	-.030	-.050	-.011	-.025	-.040	.003
34.50	8.7	---	---	.029	-.027	.009	-.003	-.073	-.046	-.101	-.023
	42.3	---	---	.021	-.019	.001	.003	-.070	-.043	-.109	-.022
	70.7	---	---	.036	-.004	.019	.019	-.062	-.027	-.101	-.020
38.00	8.7	---	---	.014	---	-.020	---	-.101	---	-.150	---
	42.3	---	---	.040	-.053	-.016	-.013	-.107	-.040	-.165	-.009
	70.7	---	---	.150	.003	-.001	-.009	-.100	-.019	-.169	.024
41.50	8.7	---	---	0	-.048	-.038	-.045	-.087	-.021	-.127	.029
	42.3	---	---	-.007	-.101	-.042	-.053	-.096	-.031	-.140	.023
	70.7	---	---	-.005	-.110	-.050	-.058	-.110	-.029	-.169	.043
44.50	8.7	---	---	---	-.110	---	-.067	---	-.040	---	.009
	42.3	---	---	-.034	-.117	-.069	-.074	-.111	-.046	-.155	.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	-.055	-.050	-.184	-.018
	70.7	---	---	-.058	-.189	-.079	-.086	-.130	-.067	-.179	-.021
50.50	8.7	---	---	-.051	---	-.068	---	-.049	---	-.138	---
	42.3	---	---	-.055	-.110	-.075	-.079	-.101	-.059	-.141	-.030
	70.7	---	---	-.060	-.123	-.081	-.081	-.118	-.070	-.152	-.030
53.50	8.7	---	---	---	-.084	---	-.055	---	-.045	---	-.019
	42.3	---	---	-.040	-.089	-.051	-.057	-.080	-.050	-.100	.024
	70.7	---	---	-.041	-.078	-.051	-.058	-.071	-.050	-.091	.018
56.50	8.7	---	-.069	-.041	-.050	-.039	-.050	-.064	-.040	-.070	-.018
	42.3	---	-.061	-.040	-.052	-.040	-.039	-.055	-.045	-.066	-.013
	70.7	-.009	-.047	-.020	-.047	-.020	-.028	-.040	-.028	-.044	-.009
59.00	8.7	-.010	-.040	-.030	-.041	-.030	-.041	-.042	-.030	-.059	-.013
	42.3	-.009	-.040	-.010	-.038	-.025	-.040	-.031	-.013	-.040	-.001
	70.7	-.011	-.032	-.020	-.031	-.023	-.020	-.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	-.020	.123	-.040	.156	-.041	.183	-.057	.214
	42.3	-.009	.089	-.028	.101	-.050	.119	-.057	.144	-.083	.159
	70.7	-.011	.060	-.031	.059	-.064	.062	-.088	.060	-.121	.048
15	8.7	-.030	.069	-.046	.084	-.057	.120	-.059	.141	-.067	.178
	42.3	-.030	.059	-.052	.060	-.069	.080	-.080	.091	-.099	.113
	70.7	-.034	.021	-.059	.026	-.081	.026	-.103	.023	-.126	.010
20	8.7	-.050	---	-.036	---	-.050	---	-.042	---	-.089	---
	42.3	-.054	.014	-.042	.043	-.061	.060	-.069	.088	-.139	.061
	70.7	-.062	-.008	-.058	0	-.081	.010	-.090	.009	-.150	-.039
25	8.7	-.057	---	-.033	---	-.039	---	-.049	---	-.088	---
	42.3	-.060	.008	-.049	.041	-.070	.049	-.071	.074	-.137	.050
	70.7	-.069	-.020	-.061	0	-.083	0	-.090	0	-.147	-.052
28.50	8.7	-.051	.030	-.060	.048	-.068	.084	-.057	.113	-.063	.146
	42.3	-.057	.017	-.075	.028	-.069	.049	-.087	.072	-.116	.090
	70.7	-.061	-.011	-.087	-.017	-.096	-.011	-.103	-.011	-.121	-.018
31.50	8.7	-.053	.040	-.071	.060	-.083	.100	-.089	.126	-.101	.169
	42.3	-.056	.005	-.083	.010	-.100	.064	-.112	.082	-.140	.108
	70.7	-.060	.006	-.086	0	-.112	.008	-.115	.011	-.130	.005
34.50	8.7	-.113	.019	-.088	.099	-.122	.130	-.135	.170	-.166	.201
	42.3	-.120	.009	-.100	.084	-.133	.101	-.169	.129	-.213	.162
	70.7	-.129	.006	-.111	.061	-.170	.101	-.191	.078	-.220	.080
38.00	8.7	-.186	---	-.171	---	-.250	---	-.281	---	-.332	---
	42.3	-.201	.043	-.207	.129	-.299	.157	-.357	.206	-.430	.241
	70.7	-.232	.081	-.238	.160	-.370	.197	-.433	.234	-.521	.255
41.50	8.7	-.172	.079	-.227	.121	-.289	.170	-.333	.205	-.371	.258
	42.3	-.200	.080	-.256	.121	-.350	.171	-.420	.200	-.482	.250
	70.7	-.238	.096	-.301	.140	-.402	.198	-.480	.234	-.540	.250
44.50	8.7	---	.057	---	.099	---	.148	---	.177	---	.229
	42.3	-.214	.054	-.272	.099	-.332	.147	-.416	.179	-.481	.227
	70.7	-.242	.058	-.300	.055	-.394	.151	-.439	.187	-.500	.240
47.50	8.7	-.177	.040	-.215	.071	-.259	.112	-.281	.141	-.310	.187
	42.3	-.208	.038	-.254	.063	-.210	.106	-.249	.137	-.309	.173
	70.7	-.216	.031	-.272	.069	-.341	.103	-.378	.140	-.419	.180
50.50	8.7	-.159	---	-.191	---	-.221	---	-.259	---	-.245	---
	42.3	-.166	.019	-.209	.042	-.260	.070	-.400	.125	-.315	.095
	70.7	-.181	.004	-.227	.030	-.277	.055	-.340	.113	-.300	.083
53.50	8.7	---	.017	---	.036	---	.057	---	.077	---	.101
	42.3	-.116	.010	-.147	.030	-.189	.050	-.226	.064	-.297	.090
	70.7	-.111	.003	-.140	.018	-.162	.040	-.185	.053	-.230	.072
56.50	8.7	-.080	.002	-.100	.020	-.119	.038	-.128	.043	-.139	.058
	42.3	-.078	.001	-.101	.016	-.129	.030	-.160	.039	-.203	.048
	70.7	-.056	.001	-.071	.002	-.088	.024	-.105	.029	-.155	.030
59.00	8.7	-.045	.009	-.060	.012	-.080	.021	-.084	.029	-.100	.032
	42.3	-.039	0	-.059	.008	-.088	.008	-.100	.015	-.125	.015
	70.7	-.043	-.010	-.051	-.009	-.051	-.005	-.050	-.008	-.108	-.012

NACA

TABLE II.- CONTINUED

(d) M,0.75.

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	0.070	-0.002	0.059	0.011	0.045	0.006	---	---	0.013	0.071
	42.3	.067	.001	.046	.023	.047	.008	---	---	.014	.063
	70.7	.050	-.001	.052	.017	.053	.029	---	---	.018	.050
15	8.7	.040	-.029	.025	-.014	.010	-.004	---	---	-.021	.034
	42.3	.026	-.037	.026	-.019	.010	-.009	---	---	-.021	.019
	70.7	.013	-.028	.015	-.008	-.008	-.008	---	---	-.021	.011
20	8.7	.017	---	-.010	---	-.010	---	---	---	-.047	---
	42.3	.007	-.039	-.011	-.029	-.010	-.010	---	---	-.049	-.017
	70.7	-.002	-.039	-.012	-.039	-.001	-.013	---	---	-.051	-.021
25	8.7	.009	-.042	-.018	-.047	-.027	-.029	---	---	-.053	-.017
	42.3	0	-.040	-.020	-.039	-.021	-.021	---	---	-.051	-.020
	70.7	-.017	-.039	-.021	-.039	-.020	-.020	---	---	-.057	-.029
28.50	8.7	-.008	-.053	-.018	-.050	-.022	-.031	---	---	-.042	0
	42.3	-.013	-.051	-.021	-.042	-.019	-.021	---	---	-.040	-.007
	70.7	-.021	-.054	-.032	-.041	-.025	-.031	---	---	-.040	-.009
31.50	8.7	0	-.059	-.013	-.047	-.012	-.012	---	---	-.049	.003
	42.3	-.009	-.053	-.018	-.042	-.017	-.027	---	---	-.040	0
	70.7	-.018	-.051	-.018	-.035	-.016	-.035	---	---	-.040	-.004
34.50	8.7	.020	-.063	.021	-.059	0	-.001	---	---	-.040	.031
	42.3	.020	-.054	.020	-.025	.003	-.011	---	---	-.039	.033
	70.7	.015	-.041	.025	-.017	.015	0	---	---	-.032	.039
38.00	8.7	.030	---	.010	---	-.020	---	---	---	-.083	---
	42.3	.024	-.110	.011	-.059	-.040	-.021	---	---	-.099	.053
	70.7	.061	-.121	.037	-.057	0	-.021	---	---	-.101	.080
41.50	8.7	.030	-.138	-.010	-.099	-.040	-.068	---	---	-.122	.027
	42.3	.030	-.144	-.009	-.101	-.046	-.071	---	---	-.131	.029
	70.7	.039	-.167	-.008	-.120	-.050	-.081	---	---	-.154	.033
44.50	8.7	---	-.155	---	-.119	---	-.089	---	---	---	-.003
	42.3	.004	-.161	-.036	-.121	-.110	-.071	---	---	-.154	-.010
	70.7	-.001	-.193	-.044	-.141	-.069	-.069	---	---	-.181	-.019
47.50	8.7	-.009	-.151	-.035	-.118	-.078	-.093	---	---	-.140	-.007
	42.3	.006	-.157	.005	-.120	-.059	-.101	---	---	-.075	-.010
	70.7	-.029	-.189	-.060	-.140	-.100	-.119	---	---	-.148	-.018
50.50	8.7	-.030	---	-.049	---	-.079	---	---	---	-.129	---
	42.3	-.029	-.141	-.114	-.154	-.079	---	---	---	-.131	-.021
	70.7	-.040	-.162	-.129	-.169	---	---	---	---	-.149	-.037
53.50	8.7	---	-.102	---	-.087	---	---	---	---	---	-.016
	42.3	-.027	-.100	-.041	-.079	---	---	---	---	-.091	-.020
	70.7	-.029	-.099	-.039	-.076	---	---	---	---	-.084	-.019
56.50	8.7	-.022	-.051	-.032	-.050	---	-.039	---	-0.019	-.061	-.009
	42.3	-.020	-.043	-.030	-.040	---	-.030	---	-.011	-.059	-.001
	70.7	.009	-.039	-.010	-.031	-.009	-.031	-0.020	-.009	-.031	.009
59.50	8.7	-.019	-.039	-.020	-.031	-.018	-.030	-.020	-.015	-.025	.004
	42.3	-.011	-.037	-.015	-.029	-.011	-.029	-.019	-.007	-.021	.010
	70.7	-.011	-.035	-.015	-.027	-.007	-.027	-.019	-.001	-.019	0

Station (in.)	Percent fuselage radius	Angle of attack, degrees							
		6		8		10		12	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
10	8.7	0	0.110	-0.011	0.131	-0.030	0.165	-0.029	0.200
	42.3	.003	.100	-.009	.111	-.033	.130	-.048	.161
	70.7	0	.169	-.022	.072	-.051	.072	-.071	.070
15	8.7	-.021	.079	-.029	.100	-.043	.129	-.045	.168
	42.3	-.021	.055	-.037	.069	-.057	.084	-.068	.114
	70.7	-.021	.032	-.034	.033	-.056	.035	-.083	.039
20	8.7	-.055	---	-.071	---	-.075	---	-.082	---
	42.3	-.059	.006	-.079	.010	-.080	.058	-.108	.049
	70.7	-.066	-.017	-.088	-.021	-.099	.002	-.130	-.031
25	8.7	-.059	.008	-.070	.021	-.070	.161	-.070	.079
	42.3	-.067	0	-.075	.003	-.081	.037	-.101	.039
	70.7	-.070	-.029	-.082	-.029	-.104	-.019	-.119	-.037
28.50	8.7	-.049	.026	-.040	.059	-.048	.088	-.040	.119
	42.3	-.053	.018	-.050	.035	-.060	.059	-.075	.079
	70.7	-.060	-.010	-.060	0	-.076	0	-.089	0
31.50	8.7	-.055	.038	-.060	.066	-.060	.107	-.061	.141
	42.3	-.053	.024	-.061	.049	-.076	.069	-.090	.090
	70.7	-.059	.015	-.072	.010	-.089	.019	-.102	.020
34.50	8.7	-.061	.071	-.068	.110	-.091	.140	-.118	.175
	42.3	-.060	.062	-.080	.084	-.117	.119	-.154	.136
	70.7	-.059	.055	-.090	.072	-.127	.083	-.160	.080
36.00	8.7	-.128	---	-.169	---	-.230	---	-.281	---
	42.3	-.150	.099	-.199	.137	-.274	.181	-.353	.214
	70.7	-.171	.132	-.240	.172	-.341	.218	-.439	.246
41.50	8.7	-.176	.090	-.237	.118	-.307	.164	-.367	.210
	42.3	-.195	.090	-.267	.121	-.360	.170	-.436	.211
	70.7	-.233	.101	-.309	.144	-.410	.200	-.500	.240
44.50	8.7	---	.063	---	.100	---	.120	---	.106
	42.3	-.215	.063	-.281	.100	-.369	.151	-.471	.190
	70.7	-.248	.060	-.312	.098	-.400	.156	-.454	.200
47.50	8.7	-.192	.040	-.239	.071	-.268	.121	-.320	.148
	42.3	-.129	.037	-.168	.069	-.211	.116	-.281	.140
	70.7	-.234	.031	-.296	.060	-.355	.118	-.409	.140
50.50	8.7	-.169	---	-.201	---	-.219	---	-.276	---
	42.3	-.181	.010	-.219	.037	-.259	.079	-.351	.091
	70.7	-.194	.001	-.240	.028	-.271	.069	-.339	.081
53.50	8.7	---	.011	---	.039	---	.062	---	.080
	42.3	-.113	.009	-.141	.027	-.171	.051	-.241	.079
	70.7	-.110	.001	-.137	.21	-.150	.050	-.200	.059
56.50	8.7	-.079	.009	-.092	.030	-.101	.024	-.121	.044
	42.3	-.071	.010	-.090	.030	-.113	.030	-.161	.039
	70.7	-.050	.009	-.056	.020	-.079	.020	-.115	.021
59.50	8.7	-.039	.012	-.049	.019	-.061	.029	-.071	.020
	42.3	-.039	.010	-.049	.018	-.071	.017	-.093	.023
	70.7	-.029	0	-.039	-.001	-.051	0	-.081	.007

NACA

TABLE II.- CONTINUED

(e) M,0.80.

Station (in.)	Percent fuselage radius	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
10	8.7	0.096	0.032	0.055	0.018	0.049	0.038	0.032	0.068	0.027	0.095	0.010	0.117	-0.016	0.138	-0.029	0.161
	42.3	.097	.038	.049	.019	.042	.039	.031	.064	.031	.081	.011	.101	-.014	.117	-.039	.133
	70.7	.081	.037	.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	.059	-.011	.080	-.031	.100	-.048	.131
	42.3	.059	.007	.019	-.016	.019	.006	.007	.022	0	.041	-.020	.061	-.038	.068	-.060	.086
	70.7	.048	.005	.015	-.010	.017	.009	.010	.023	.001	.033	-.011	.041	-.040	.030	-.079	.052
20	8.7	.038	- - -	.001	- - -	-.009	- - -	-.010	- - -	-.020	- - -	-.026	- - -	-.044	- - -	.050	- - -
	42.3	.029	-.020	-.001	-.023	-.011	-.011	-.019	-.009	-.027	.017	-.039	.030	-.051	.040	-.061	.060
	70.7	.011	-.021	-.007	-.022	-.007	-.012	-.029	-.018	-.029	0	-.043	.003	-.061	0	-.083	0
25	8.7	.020	-.022	-.005	-.029	-.011	-.011	-.031	-.017	-.032	.014	-.033	.034	-.040	.051	-.041	.087
	42.3	.013	-.022	-.010	-.030	-.020	-.021	-.033	-.012	-.034	.009	-.041	.022	-.050	.030	-.061	.050
	70.7	.001	-.001	-.017	-.020	-.020	-.030	-.035	-.018	-.035	-.001	-.049	-.001	-.066	-.008	-.079	-.008
28.50	8.7	.003	-.043	-.008	-.030	-.020	-.020	-.028	-.010	-.035	.009	-.039	.030	-.038	.063	-.039	.090
	42.3	-.001	-.034	-.011	-.029	-.011	-.011	-.026	-.009	-.033	.010	-.038	.020	-.043	.040	-.056	.060
	70.7	-.006	-.038	-.017	-.031	-.025	-.017	-.025	-.017	-.031	.008	-.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	.109
	42.3	.007	-.037	-.004	-.027	-.010	-.016	-.021	.021	-.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	.020	-.027	-.031	-.037	-.013	.021	-.028	.044	-.049	.072	-.069	.108	-.087	.140
	42.3	.049	-.030	.019	-.019	-.030	-.036	-.005	.022	-.025	.042	-.049	.067	-.078	.091	-.101	.120
	70.7	.044	-.012	.021	-.006	-.020	-.025	.002	.034	-.020	.050	-.046	.060	-.089	.068	-.110	.079
38.00	8.7	.061	- - -	.017	- - -	-.049	- - -	-.050	- - -	-.080	- - -	-.124	- - -	-.176	- - -	-.240	- - -
	42.3	.054	-.081	.017	-.056	-.053	-.053	-.056	.029	-.090	.066	-.147	.101	-.209	.145	-.281	.179
	70.7	.090	-.099	.049	-.059	-.029	-.039	-.041	.053	-.090	.090	-.161	.139	-.251	.184	-.350	.220
41.50	8.7	.040	-.121	.010	-.082	-.029	-.040	-.072	.034	-.107	.059	-.179	.094	-.255	.142	-.329	.189
	42.3	.051	-.131	.010	-.091	-.030	-.046	-.080	.004	-.120	.053	-.193	.099	-.283	.150	-.380	.190
	70.7	.063	-.150	.010	-.101	-.040	-.051	-.100	.009	-.145	.070	-.230	.111	-.329	.170	-.428	.211
44.50	8.7	- - -	-.140	- - -	-.110	- - -	-.060	- - -	-.019	- - -	.038	- - -	.076	- - -	.129	- - -	.161
	42.3	.064	-.150	-.000	-.117	-.059	-.067	-.116	-.020	-.149	.037	-.226	.077	-.316	.127	-.423	.169
	70.7	.070	-.157	-.030	-.139	-.076	-.087	-.129	-.031	-.172	.029	-.253	.071	-.344	.122	-.460	.172
47.50	8.7	.009	-.151	-.037	-.121	-.071	-.079	-.118	-.037	-.140	.017	-.196	.050	-.267	.089	-.318	.134
	42.3	.049	-.151	.011	-.131	-.018	-.090	-.050	-.040	-.069	.009	-.126	.047	-.189	.065	-.250	.127
	70.7	-.003	-.170	-.058	-.149	.096	-.100	-.142	-.050	-.171	.003	-.240	.042	-.327	.080	-.409	.121
50.50	8.7	-.010	- - -	-.049	- - -	-.078	- - -	-.110	- - -	-.126	- - -	-.169	- - -	-.217	- - -	-.242	- - -
	42.3	-.011	- - -	-.053	-.120	-.081	-.086	-.114	-.050	-.130	-.001	-.180	.024	-.238	.053	-.280	.083
	70.7	-.020	- - -	-.067	-.135	-.045	-.045	-.131	-.061	-.153	-.019	-.200	.011	-.257	.042	-.290	.078
53.50	8.7	- - -	- - -	- - -	-.089	- - -	-.060	- - -	-.037	- - -	-.001	- - -	.020	- - -	.050	- - -	.071
	42.3	- - -	- - -	-.040	-.081	-.057	-.067	-.079	-.038	-.087	-.009	-.116	.018	-.141	.040	-.180	.061
	70.7	- - -	- - -	-.036	-.090	-.051	-.056	-.071	-.033	-.080	-.008	-.108	.019	-.139	.038	-.159	.052
56.50	8.7	- - -	-.050	-.036	-.050	-.037	-.050	-.057	-.018	-.061	.001	-.069	.027	-.081	.039	-.106	.048
	42.3	- - -	-.049	-.029	-.040	-.031	-.040	-.048	-.010	-.060	.007	-.060	.031	-.081	.038	-.119	.044
	70.7	.010	-.029	-.010	-.030	-.019	-.001	-.025	-.005	-.030	.009	-.039	.029	-.049	.031	-.069	.036
59.50	8.7	-.001	-.021	-.019	-.010	-.010	-.008	-.031	-.002	-.020	.017	-.031	.025	-.051	.021	-.079	.023
	42.3	.007	-.028	-.011	-.031	-.013	-.019	-.027	-.009	-.020	.010	-.027	.020	-.051	.012	-.081	.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	Angle of attack, degrees															
		-4		-2		0		2		4		6		8		9	
		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
10	8.7	0.077	0.001	0.060	0.014	0.032	0.032	0.030	0.055	0.023	0.093	0	0.110	-0.020	0.128	-0.020	0.159
	42.3	.070	.007	.058	.019	.036	.032	.030	.055	.023	.081	.003	.098	-.017	.108	-.027	.128
	70.7	.050	.001	.046	.020	.035	.035	.030	.050	.023	.065	-.002	.075	-.025	.065	-.040	.024
15	8.7	.040	-.076	.029	-.017	.002	.002	.002	.022	-.003	.056	-.024	.075	-.040	.098	-.040	.115
	42.3	.027	-.030	.020	-.022	.003	-.008	0	.012	-.007	.040	-.024	.055	-.045	.062	-.048	.082
	70.7	.017	-.025	.014	-.015	0	-.002	.005	.013	-.005	.030	-.027	.030	-.052	.035	-.060	.035
20	8.7	.017	- - -	.005	- - -	-.012	- - -	-.015	- - -	-.025	- - -	-.030	- - -	-.038	- - -	-.043	- - -
	42.3	.010	-.028	.002	-.028	-.013	-.018	-.012	.001	-.025	-.015	-.033	.039	-.040	.045	-.058	.050
	70.7	-.002	-.033	-.006	-.028	-.015	-.022	-.015	-.002	-.030	-.012	-.036	.012	-.060	0	-.070	0
25	8.7	.015	-.033	.002	-.032	-.019	-.020	-.020	-.003	-.027	.018	-.029	.043	-.038	.058	-.039	.072
	42.3	.007	-.028	-.004	-.028	-.020	-.020	-.026	-.003	-.032	.009	-.035	.025	-.049	.032	-.049	.045
	70.7	-.008	-.031	-.008	-.030	-.020	-.020	-.022	-.005	-.032	-.003	-.045	.002	-.059	0	-.068	-.003
28.50	8.7	.013	-.036	.003	-.025	-.025	-.020	-.015	0	.015	.029	-.030	.040	-.035	.060	-.040	.070
	42.3	.005	-.030	.005	-.025	-.025	-.020	-.015	.008	.018	.020	-.030	.030	-.038	.047	-.052	.050
	70.7	-.007	-.033	-.005	-.035	-.025	-.020	-.012	.008	.018	.008	-.040	.005	-.049	.005	-.068	-.003
31.50	8.7	.018	-.039	.010	-.018	-.020	-.018	-.015	.012	-.018	.038	-.032	.058	-.040	.082	-.050	.089
	42.3	.010	-.028	.005	-.018	-.020	-.018	-.012	.008	-.018	.032	-.032	.042	-.040	.055	-.058	.060
	70.7	-.005	-.035	-.005	-.015	-.019	-.012	-.012	.010	-.018	.022	-.040	.022	-.052	.016	-.070	.016
34.50	8.7	.032	-.040	.022	-.023	-.002	-.006	0	-.028	-.018	.051	-.050	.073	-.064	.105	-.063	.135
	42.3	.036	-.025	.022	-.010	0	0	.002	-.015	-.018	.055	-.052	.060	-.070	.090	-.080	.110
	70.7	.031	-.018	.022	0	0	-.015	.010	-.040	-.020	.055	-.045	.065	-.079	.068	-.089	.080
38.00	8.7	.048	- - -	.017	- - -	-.018	- - -	-.035	- - -	-.075	- - -	-.130	- - -	-.178	- - -	-.205	- - -
	42.3	.050	-.091	.018	-.053	-.017	-.025	-.039	.033	-.066	.074	-.150	.105	-.209	.140	-.242	.165
	70.7	.078	-.107	.052	-.048	.004	-.005	-.029	.053	-.095	.108	-.178	.143	-.253	.182	-.297	.209
41.50	8.7	.020	-.148	-.002	-.100	-.040	-.052	-.072	-.001	-.120	.060	-.190	.098	-.266	.133	-.305	.163
	42.3	.030	-.150	-.005	-.110	-.045	-.057	-.080	-.002	-.133	.060	-.208	.100	-.295	.139	-.340	.162
	70.7	.040	-.172	.002	-.121	-.052	-.060	-.098	-.001	-.160	.070	-.248	.118	-.336	.158	-.380	.188
44.50	8.7	- - -	-.172	- - -	-.123	- - -	-.072	- - -	-.022	- - -	.033	- - -	.078	- - -	.115	- - -	.140
	42.3	0	-.178	-.030	-.130	-.072	-.078	-.113	-.025	-.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	-.000	-.179	-.049	-.138	-.090	-.097	-.112	-.040	-.158	.018	-.213	.055	-.286	.088	-.342	.109
	42.3	.004	-.177	.002	-.148	-.032	-.102	-.049	-.046	-.086	.005	-.140	.050	-.202	.083	-.262	.105
	70.7	-.015	-.210	-.069	-.160	-.112	-.119	-.138	-.055	-.190	.002	-.260	.045	-.345	.076	-.420	.098
50.50	8.7	-.036	- - -	-.060	- - -	-.096	- - -	-.110	- - -	-.142	- - -	-.182	- - -	-.229	- - -	-.251	- - -
	42.3	-.049	-.172	-.060	-.135	-.100	-.109	-.118	-.095	-.145	-.009	-.192	.025	-.247	.050	-.280	.065
	70.7	-.052	-.175	-.080	-.157	-.118	-.119	-.130	-.070	-.130	-.025	-.215	.015	-.265	.042	-.303	.055
53.50	8.7	- - -	-.105	- - -	-.090	- - -	-.072	- - -	-.038	- - -	-.009	- - -	.028	- - -	.042	- - -	.053
	42.3	-.025	-.102	-.041	-.090	-.065	-.068	-.072	-.037	-.097	-.013	-.117	.019	-.153	.036	-.169	.049
	70.7	-.032	-.102	-.041	-.085	-.060	-.068	-.070	-.039	-.093	-.012	-.111	.019	-.144	.029	-.159	.041
56.50	8.7	-.000	-.068	-.030	-.045	-.050	-.038	-.050	-.019	-.062	-.003	-.072	.017	-.088	.040	-.100	.049
	42.3	-.016	-.056	-.027	-.041	-.042	-.028	-.042	-.016	-.053	.005	-.060	.019	-.009	.042	-.103	.050
	70.7	-.000	-.043	-.002	-.032	-.012	-.019	-.020	-.007	-.032	.005	-.043	.019	-.043	.035	-.055	.040
59.50	8.7	-.002	-.032	-.020	-.036	-.022	-.022	-.017	.002	-.027	.012	-.034	.022	-.053	.018	-.062	.023
	42.3	-.004	-.034	-.019	-.030	-.019	-.016	-.009	-.002	-.015	.012	-.032	.015	-.049	.012	-.062	.015
	70.7	-.005	-.029	-.012	-.028	-.013	-.012	-.007	0	-.009	.010	-.023	.012	-.040	.005	-.049	.005

NACA

TABLE II.– CONTINUED

(g) M,0.84.

Station (in.)	Percent fuselage radius	Angle of attack, degrees															
		-4		-2		0		2		4		6		8		9	
		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
10	8.7	0.090	0.018	0.070	0.032	0.060	0.061	0.043	0.072	0.032	0.099	0.012	0.119	-0.001	0.147	-0.018	0.158
	42.3	.081	.022	.065	.039	.066	.067	.049	.073	.037	.093	.018	.100	0	.121	-.020	.128
	70.7	.072	.020	.060	.037	.065	.069	.049	.074	.039	.072	.011	.073	-.017	.074	-.032	.080
15	8.7	.058	-.011	.049	.003	.032	.032	.019	.041	.001	.060	-.013	.079	-.025	.109	-.039	.115
	42.3	.050	-.013	.039	0	.028	.030	.018	.031	.001	.050	-.018	.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	- - -	-.026	- - -	-.031	- - -	-.042	- - -	-.050	- - -
	42.3	.019	-.025	.003	-.026	.007	.007	-.003	.015	-.023	.014	-.029	.029	-.049	.039	-.059	.045
	70.7	0	-.024	-.005	-.027	.004	-.005	-.007	.007	-.028	0	-.040	.008	-.052	.002	-.077	-.007
25	8.7	.020	-.030	0	-.024	0	.001	-.010	.010	-.030	.009	-.030	.032	-.038	.047	-.041	.059
	42.3	.009	-.021	-.005	-.021	-.001	-.006	-.018	.002	-.026	0	-.039	.018	-.051	.029	-.059	.034
	70.7	-.003	-.029	-.001	-.029	-.009	-.001	-.015	-.002	-.036	-.004	-.041	-.009	-.061	-.011	-.074	-.013
26.50	8.7	.010	-.031	.005	-.020	.010	0	-.020	-.008	-.020	.027	-.030	.039	-.039	.059	-.039	.064
	42.3	0	-.029	0	-.020	.001	.003	-.019	-.009	-.020	.019	-.033	.028	-.047	.033	-.048	.041
	70.7	-.005	-.036	0	-.017	-.007	0	-.018	-.004	-.021	0	-.041	.005	-.053	-.003	-.066	0
31.50	8.7	.018	-.039	.009	-.017	.009	.009	-.018	0	-.018	.032	-.031	.046	-.038	.071	-.030	.073
	42.3	.009	-.028	.008	-.019	.005	.005	-.017	-.001	-.018	.024	-.030	.032	-.041	.049	-.043	.053
	70.7	-.002	-.027	-.010	-.027	0	.017	-.018	.001	-.019	.017	-.039	.017	-.052	.019	-.058	0
34.50	8.7	.060	-.011	.042	-.006	.006	.009	.003	.029	-.011	.060	-.028	.079	-.046	.120	-.055	.133
	42.3	.060	-.008	.042	.009	.060	.030	.003	.032	-.010	.057	-.035	.069	-.051	.100	-.069	.114
	70.7	.053	0	.044	.018	.035	.035	.010	.042	-.001	.060	-.030	.066	-.050	.085	-.069	.088
38.00	8.7	.070	- - -	.039	- - -	-.001	- - -	-.038	- - -	-.070	- - -	-.111	- - -	-.156	- - -	-.189	- - -
	42.3	.071	-.070	.040	-.038	.001	-.007	-.039	.029	-.083	.079	-.131	.110	-.184	.151	-.224	.170
	70.7	.101	-.086	.069	-.041	.019	.018	-.027	.055	-.089	.111	-.154	.149	-.227	.197	-.261	.211
41.50	8.7	.052	-.111	.017	-.084	-.019	-.020	-.061	.004	-.124	.051	-.180	.094	-.238	.153	-.279	.180
	42.3	.053	-.140	.018	-.095	-.019	-.021	-.072	.002	-.139	.050	-.199	.094	-.267	.156	-.319	.178
	70.7	.061	-.160	.019	-.105	-.029	-.029	-.091	.007	-.163	.060	-.235	.110	-.309	.173	-.359	.201
44.50	8.7	- - -	-.161	- - -	-.110	- - -	-.046	- - -	-.020	- - -	.026	- - -	.065	- - -	.127	- - -	.152
	42.3	.019	-.170	-.019	-.120	-.050	-.054	-.109	-.022	-.177	.024	-.243	.067	-.320	.129	-.380	.150
	70.7	.011	-.199	-.026	-.143	-.049	-.051	-.127	-.038	-.201	.018	-.272	.061	-.353	.123	-.314	.150
47.50	8.7	.007	-.166	-.030	-.127	-.061	-.061	-.098	-.027	-.152	.029	-.222	.050	-.300	.100	-.321	.119
	42.3	.051	-.179	.020	-.131	-.004	-.072	-.035	-.032	-.076	.018	-.141	.042	-.211	.100	-.278	.110
	70.7	-.012	-.200	-.050	-.152	-.087	-.089	-.130	-.045	-.188	.008	-.265	.041	-.358	.091	-.442	.109
50.50	8.7	-.010	- - -	-.050	- - -	-.070	- - -	-.100	- - -	-.139	- - -	-.190	- - -	-.228	- - -	-.270	- - -
	42.3	-.017	-.159	-.049	-.126	-.071	-.072	-.104	-.047	-.144	-.004	-.200	.017	-.245	.062	-.301	.080
	70.7	-.029	-.170	-.050	-.140	-.090	-.090	-.125	-.060	-.161	-.017	-.220	.001	-.262	.052	-.329	.069
53.50	8.7	- - -	-.090	- - -	-.070	- - -	-.044	- - -	-.027	- - -	.010	- - -	.027	- - -	.060	- - -	.069
	42.3	-.001	-.086	-.024	-.070	-.047	-.048	-.062	-.028	-.081	.009	-.110	.020	-.130	.051	-.150	.058
	70.7	-.001	-.083	-.022	-.069	-.045	-.045	-.060	-.027	-.082	.001	-.101	.019	-.124	.047	-.140	.050
56.50	8.7	0	-.061	-.011	-.041	-.029	-.029	-.038	-.018	-.041	0	-.060	.015	-.070	.040	-.077	.046
	42.3	.008	-.051	-.010	-.036	-.021	-.020	-.029	-.010	-.033	.009	-.051	.011	-.062	.040	-.083	.042
	70.7	.001	-.040	.001	-.021	-.006	-.011	-.011	.010	-.024	.009	-.040	.010	-.041	.034	-.052	.036
59.50	8.7	0	-.030	-.009	-.021	-.011	-.010	-.025	-.001	-.027	.009	-.040	.010	-.048	.022	-.060	.019
	42.3	0	-.028	-.009	-.021	-.009	-.010	-.017	.005	-.023	.005	-.039	.005	-.047	.014	-.069	.009
	70.7	-.001	-.021	-.009	-.022	-.008	-.009	-.011	-.011	-.017	0	-.030	.002	-.039	.002	-.051	-.005

(h) M,0.86.

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	0.101	0.033	0.089	0.058	0.069	0.059	0.039	0.071	0.027	0.090	0	0.104	0.010	0.153
	42.3	.089	.040	.074	.060	.059	.061	.048	.070	.030	.090	.007	.091	.001	.138
	70.7	.082	.033	.069	.051	.061	.051	.048	.061	.030	.070	.004	.069	0	.089
15	8.7	.060	.003	.051	.011	.030	.023	.010	.038	-.004	.053	-.029	.065	-.013	.119
	42.3	.052	-.001	.045	.008	.030	.019	.012	.029	-.002	.040	-.029	.043	-.029	.052
	70.7	.040	.001	.039	.011	.032	.020	.013	.023	0	.037	-.030	.034	-.030	.050
20	8.7	.029	- - -	.020	- - -	.009	- - -	-.006	- - -	-.012	- - -	-.030	- - -	-.030	- - -
	42.3	.020	-.017	.007	-.017	.007	.007	-.003	.009	-.011	.027	-.030	.031	-.035	.057
	70.7	.005	-.020	.002	-.020	.001	.001	-.004	-.001	-.019	.012	-.036	.001	-.048	.011
25	8.7	.024	-.021	.010	-.021	-.001	0	-.010	-.001	-.017	.022	-.034	.030	-.028	.060
	42.3	.013	-.019	.003	-.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	-.008	-.008	-.019	0	-.019	.023	-.039	.029	-.028	.069
	42.3	.017	-.010	0	-.020	-.007	-.007	-.020	0	-.011	.019	-.041	.020	-.035	.050
	70.7	.004	-.020	-.009	-.026	-.009	-.009	-.020	-.009	-.015	.008	-.041	-.007	-.045	.009
31.50	8.7	.027	-.011	.009	-.021	-.003	-.006	-.010	.010	-.018	.039	-.039	.034	-.026	.078
	42.3	.011	-.007	.003	-.019	-.007	-.007	-.010	.009	-.010	.026	-.041	.021	-.031	.059
	70.7	.002	-.018	-.002	-.018	-.009	-.010	-.010	.009	-.011	.021	-.050	.011	-.040	.024
34.50	8.7	.060	-.001	.048	0	.031	.023	.018	.040	-.004	.069	-.039	.069	-.039	.122
	42.3	.069	.005	.050	.011	.036	.014	.022	.043	-.002	.060	-.030	.063	-.041	.107
	70.7	.061	.021	.052	.029	.044	.040	.029	.050	.003	.068	-.030	.065	-.042	.087
38.00	8.7	.080	- - -	.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	.084	-.022	.040	.034	-.013	.068	-.073	.121	-.152	.149	-.221	.203
41.50	8.7	.060	-.103	.031	-.068	-.017	-.023	-.069	.008	-.114	.060	-.180	.099	-.219	.171
	42.3	.060	-.105	.031	-.080	-.019	-.030	-.076	0	-.127	.059	-.198	.100	-.250	.172
	70.7	.066	-.126	.031	-.091	-.029	-.036	-.091	.007	-.151	.061	-.230	.117	-.286	.197
44.50	8.7	- - -	-.139	- - -	-.107	- - -	-.055	- - -	-.021	- - -	.032	- - -	.071	- - -	.150
	42.3	.028	-.148	-.005	-.111	-.058	-.060	-.111	-.022	-.175	.031	-.348	.072	-.412	.154
	70.7	.019	-.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	.011	-.265	.043	-.330	-.109
	42.3	.049	-.164	.023	-.142	-.011	-.092	-.050	-.050	-.100	.010	-.176	.034	-.231	-.100
	70.7	-.013	-.199	-.049	-.152	-.098	-.107	-.151	-.057	-.209	-.001	-.310	.027	-.387	-.098
50.50	8.7	-.016	- - -	-.041	- - -	-.080	- - -	-.120	- - -	-.158	- - -	-.226	- - -	-.320	- - -
	42.3	-.013	-.149	-.046	-.128	-.080	-.090	-.127	-.059	-.161	-.010	-.239	.009	-.349	.068
	70.7	-.031	-.169	-.058	-.142	-.099	-.101	-.140	-.069	-.187	-.027	-.268	0	-.368	.054
53.50	8.7	- - -	-.085	- - -	-.072	- - -	-.050	- - -	-.037	- - -	-.003	- - -	.012	- - -	.060
	42.3	-.008	-.084	-.022	-.071	-.048	-.050	-.078	-.040	-.077	-.001	-.126	.008	-.130	.053
	70.7	-.010	-.080	-.021	-.070	-.040	-.050	-.073	-.040	-.082	-.009	-.119	.005	-.120	.048
56.50	8.7	-.001	-.050	-.011	-.044	-.026	-.026	-.048	-.025	-.049	.008	-.071	.005	-.060	.049
	42.3	0	-.040	-.009	-.039	-.029	-.020	-.039	-.020	-.043	.011	-.069	.010	-.060	.042
	70.7	-.010	-.030	-.001	-.039	-.011	-.029	-.022	-.011	-.020	.012	-.046	.006	-.039	.038
59.50	8.7	-.009	-.030	-.007	-.018	-.019	-.020	-.022	-.010	-.021	.010	-.053	-.001	-.037	.031
	42.3	-.001	-.029	-.002	-.017	-.015	-.016	-.021	-.010	-.027	.002	-.049	-.009	-.039	.022
	70.7	-.002	-.023	-.001	-.023	-.013	-.015	-.020	-.011	-.019	0	-.040	-.011	-.026	.011

NACA

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	0.108	0.033	0.087	0.042	0.068	0.068	0.052	0.080	0.038	0.105	0.020	0.128	0.015	0.168
	42.3	.092	.041	.075	.048	.068	.062	.057	.078	.040	.096	.023	.117	.013	.140
	70.7	.092	.033	.092	.044	.062	.062	.058	.079	.043	.078	.020	.089	.007	.098
15	8.7	.062	.008	.042	.008	.030	.030	.020	.044	.004	.069	-.010	.092	-.013	.118
	42.3	.060	.002	.042	0	.030	.020	.020	.038	.002	.055	-.013	.070	-.020	.097
	70.7	.045	.003	.038	.010	.028	.025	.028	.043	.00	.043	-.010	.050	-.029	.060
20	8.7	.025	- - -	.015	- - -	.015	- - -	.005	- - -	-.006	- - -	-.025	- - -	-.025	- - -
	42.3	.020	-.022	.009	.010	.015	.015	0	.018	-.010	.030	-.028	.043	-.038	.055
	70.7	.010	-.022	.002	.015	.009	.008	0	.012	-.012	.012	-.030	.015	-.048	.015
25	8.7	.024	-.020	.009	-.012	.009	.009	-.003	.005	-.010	.033	-.018	.045	-.022	.069
	42.3	.010	-.020	.002	-.015	.005	.005	-.014	.004	-.015	.018	-.030	.035	-.035	.045
	70.7	0	-.022	0	-.020	-.012	0	-.012	-.003	-.020	.010	-.032	.012	-.043	.015
28.50	8.7	.016	-.022	.015	-.010	.015	0	-.010	.008	-.025	.022	-.020	.040	-.020	.069
	42.3	.014	-.018	.015	-.016	.015	.002	-.008	.015	-.022	.015	-.027	.030	-.027	.050
	70.7	.005	-.022	.005	-.015	-.005	0	-.008	0	-.020	.002	-.033	.005	-.040	.010
31.50	8.7	.022	-.015	.022	-.010	.010	.015	-.006	.018	-.018	.032	-.020	.045	-.026	.082
	42.3	.015	-.015	-.009	-.015	0	.002	-.002	.013	-.015	.025	-.028	.035	-.026	.055
	70.7	.005	-.015	.002	0	.005	.009	-.002	.015	-.015	.015	-.035	.010	-.040	.025
34.50	8.7	.078	.005	.060	.016	.038	.035	.025	.049	.002	.060	-.006	.095	-.013	.135
	42.3	.072	.012	.060	.032	.038	.042	.035	.055	.002	.063	-.015	.090	-.015	.122
	70.7	.072	.029	.060	.042	.060	.058	.042	.063	.005	.065	-.014	.074	-.015	.102
38.00	8.7	.090	- - -	.060	- - -	.022	- - -	-.010	- - -	-.065	- - -	-.100	- - -	-.122	- - -
	42.3	.095	-.035	.063	-.006	.032	.023	-.015	.055	-.075	.088	-.116	.123	-.152	.192
	70.7	.120	-.050	.058	0	.050	.045	-.005	.080	-.080	.124	-.145	.164	-.193	.220
41.50	8.7	.058	-.110	.032	-.075	-.020	-.020	-.068	.010	-.130	.060	-.175	.115	-.222	.163
	42.3	.065	-.120	.025	-.080	-.020	-.020	-.073	.005	-.135	.053	-.190	.115	-.250	.163
	70.7	.070	-.135	.023	-.095	-.028	-.032	-.067	.010	-.160	.070	-.225	.132	-.295	.166
44.50	8.7	- - -	-.160	- - -	-.112	- - -	-.052	- - -	-.015	- - -	.035	- - -	.082	- - -	.140
	42.3	.054	-.165	-.013	-.125	-.050	-.066	-.112	-.000	-.186	.032	-.250	.065	-.325	.140
	70.7	.050	-.175	-.020	-.143	-.073	-.078	-.130	-.030	-.210	.005	-.290	.072	-.370	.135
47.50	8.7	-.000	-.195	-.033	-.140	-.070	-.080	-.115	-.033	-.193	.015	-.275	.052	-.325	.107
	42.3	.045	-.195	.000	-.151	-.090	-.094	-.052	-.042	-.110	.005	-.190	.042	-.242	.100
	70.7	-.020	-.200	-.053	-.169	-.100	-.110	-.143	-.052	-.230	0	-.320	.040	-.355	.093
50.50	8.7	-.025	- - -	-.050	- - -	-.090	- - -	-.150	- - -	-.187	- - -	-.250	- - -	-.310	- - -
	42.3	-.075	-.185	-.075	-.149	-.092	-.070	-.140	-.057	-.191	-.013	-.312	.030	-.405	.070
	70.7	-.039	-.205	-.040	-.161	-.103	-.108	-.145	-.073	-.222	-.005	-.332	.013	-.430	.058
53.50	8.7	- - -	-.080	- - -	-.070	- - -	-.045	- - -	-.030	- - -	-.010	- - -	.023	- - -	.055
	42.3	-.003	-.077	-.026	-.075	-.045	-.045	-.070	-.033	-.105	-.014	-.130	.020	-.198	.050
	70.7	-.006	-.075	-.028	-.073	-.045	-.047	-.060	-.030	-.097	-.015	-.115	.013	-.178	.040
56.50	8.7	0	-.050	-.015	-.045	-.025	-.018	-.030	-.016	-.057	0	.000	-.005	-.055	.050
	42.3	.004	-.045	-.015	-.045	-.020	-.015	-.025	-.010	-.045	.010	.050	-.025	-.050	.048
	70.7	.010	-.045	0	-.030	-.010	-.010	-.012	0	-.023	.010	.026	-.028	-.025	.049
59.50	8.7	0	-.025	0	-.010	-.010	-.020	-.020	.000	-.029	.012	-.025	.020	-.020	.035
	42.3	0	-.025	0	-.010	-.010	-.010	-.015	-.003	-.023	.008	-.020	.015	-.025	.030
	70.7	0	-.020	0	-.010	-.010	-.010	-.010	-.010	-.018	0	-.015	.012	-.015	.015

(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	0.075	0.011	0.092	0.049	0.071	0.057	0.056	0.083	0.041	0.110	0.028	0.138	0.000	0.150
	42.3	.061	.021	.080	.060	.066	.054	.060	.083	.090	.103	.030	.123	.003	.133
	70.7	.070	.014	.078	.050	.063	.057	.061	.080	.093	.090	.029	.092	-.005	.094
15	8.7	.050	-.017	.051	.020	.029	.032	.030	.054	.014	.070	-.001	.070	-.021	.117
	42.3	.040	-.020	.041	.018	.031	.018	.031	.050	.019	.063	-.001	.070	-.027	.082
	70.7	.039	-.014	.018	.017	.018	.018	.033	.045	.020	.054	-.008	.050	-.029	.045
20	8.7	.016	- - -	.007	- - -	0	- - -	-.009	- - -	-.018	- - -	-.020	- - -	-.017	- - -
	42.3	.010	-.034	.008	-.015	-.009	0	-.007	.007	-.019	.020	-.021	.048	-.021	.047
	70.7	-.001	-.031	.001	-.019	-.002	0	-.010	-.001	-.020	.011	-.029	.019	-.021	.035
25	8.7	.009	-.042	.009	-.020	-.001	-.011	-.013	-.001	-.019	.014	-.020	.050	-.035	.050
	42.3	-.001	-.029	-.002	-.019	-.010	-.018	-.027	-.006	-.027	.011	-.024	.048	-.027	.035
	70.7	-.006	-.037	-.009	-.020	-.005	-.015	-.025	-.012	-.029	-.002	-.030	.016	-.037	-.001
28.50	8.7	.011	-.025	.004	-.026	-.005	-.010	-.008	-.010	-.029	.010	-.029	.034	-.029	.050
	42.3	.005	-.026	-.001	-.019	-.001	-.009	-.027	-.010	-.031	.002	-.027	.034	-.039	.037
	70.7	-.005	-.031	-.009	-.021	-.005	-.006	-.019	-.008	-.029	-.019	-.033	.001	-.052	-.033
31.50	8.7	.021	-.026	.009	-.017	-.001	-.002	-.000	.001	-.021	.020	-.020	.041	-.029	.039
	42.3	.011	-.020	.001	-.011	0	-.001	-.018	.002	-.020	.017	-.020	.031	-.038	.034
	70.7	-.001	-.020	.005	-.007	-.002	-.001	-.018	0	-.019	0	-.030	.028	-.042	.019
34.50	8.7	.054	-.010	.056	.013	.039	.024	.017	.045	-.010	.059	0	.093	-.011	.129
	42.3	.059	0	.054	.028	.040	.029	.018	.050	0	.060	-.001	.087	-.021	.109
	70.7	.058	.010	.063	.037	.050	.050	.029	.059	.005	.061	.004	.081	-.020	.092
38.00	8.7	.071	- - -	.060	- - -	.021	- - -	-.020	- - -	-.050	- - -	-.089	- - -	-.129	- - -
	42.3	.077	-.057	.054	-.005	.021	.000	-.029	.046	-.073	.081	-.099	.132	-.156	.174
	70.7	.110	-.066	.003	-.001	.049	.036	-.014	.070	-.080	.111	-.129	.170	-.201	.213
41.50	8.7	.044	-.132	.023	-.066	-.010	-.027	-.059	.007	-.120	.051	-.160	.120	-.230	.160
	42.3	.050	-.139	.023	-.072	-.016	-.031	-.069	.011	-.141	.050	-.178	.121	-.255	.161
	70.7	.051	-.157	.021	-.079	-.015	-.037	-.060	.021	-.152	.064	-.210	.140	-.293	.137
44.50	8.7	.035	-.180	.011	-.111	-.019	-.063	-.071	-.020	-.133	.030	-.190	.089	-.213	.130
	42.3	.009	-.197	-.020	-.119	-.058	-.068	-.115	-.019	-.184	.030	-.237	.091	-.321	.131
	70.7	0	-.212	-.029	-.139	-.070	-.087	-.130	-.029	-.207	.020	-.260	.087	-.347	.129
47.50	8.7	-.019	-.230	.010	-.147	-.018	-.109	-.130	-.036	-.208	.009	-.271	.092	-.342	.085
	42.3	.034	-.230	-.063	-.155	-.100	-.118	-.098	-.040	-.123	-.001	-.181	.049	-.245	.081
	70.7	-.031	-.258	-.147	-.170	-.097	-.100	-.160	-.057	-.240	-.009	-.317	.043	-.400	.079
50.50	8.7	-.034	- - -	-.062	- - -	-.097	- - -	-.157	- - -	-.253	- - -	-.327	- - -	-.400	- - -
	42.3	-.039	-.261	-.069	-.175	-.101	-.119	-.164	-.064	-.264	-.025	-.340	.019	-.400	.003
	70.7	-.057	-.281	-.081	-.193	-.118	-.132	-.188	-.079	-.291	-.039	-.361	.041	-.500	.031
53.50	8.7	- - -	-.121	- - -	-.079	- - -	-.059	- - -	-.041	- - -	-.012	- - -	.018	- - -	.042
	42.3	-.021	-.120	-.030	-.073	-.047	-.058	-.084	-.047	-.130	-.021	-.269	.011	-.412	.031
	70.7	-.021	-.117	-.033	-.071	-.042	-.058	-.080	-.041	-.120	-.021	-.290	.005	-.388	.021
56.50	8.7	-.015	-.065	-.016	- - -	-.025	-.035	-.040	-.020	-.059	0	-.058	.020	-.060	.031
	42.3	-.010	-.054	-.011	- - -	-.017	-.025	-.034	-.010	-.050	.002	-.051	.019	-.070	.028
	70.7	-.001	-.045	- - -	- - -	-.009	-.019	-.015	-.007	-.023	.010	-.030	.021	-.052	.020
59.50	8.7	0	-.026	- - -	- - -	-.009	-.009	-.020	0	-.029	.009	-.013	.018	-.029	.019
	42.3	-.002	-.022	- - -	- - -	-.009	-.011	-.017	-.005	-.021	.001	-.011	.021	-.029	.008
	70.7	-.004	-.019	- - -	- - -	-.005	-.012	-.008	-.002	-.015	0	-.002	.011	-.020	.012

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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	---	---	---	---	---	---	---	---	---	---	---	---	0.100	0.213
	42.3	---	---	---	---	---	---	---	---	---	---	---	---	.100	.203
	70.7	---	---	---	---	---	---	---	---	---	---	---	---	.100	.189
38.00	8.7	---	---	---	---	---	---	---	---	---	---	---	---	.003	---
	42.3	---	---	---	---	---	---	---	---	---	---	---	---	.018	-.260
	70.7	---	---	---	---	---	---	---	---	---	---	---	---	.050	-.304
41.50	8.7	---	---	---	---	---	---	---	---	---	---	---	---	-.192	.140
	42.3	---	---	---	---	---	---	---	---	---	---	---	---	-.210	.145
	70.7	---	---	---	---	---	---	---	---	---	---	---	---	-.246	.165
44.50	8.7	---	---	---	---	---	---	---	---	---	---	---	---	---	.108
	42.3	---	---	---	---	---	---	---	---	---	---	---	---	-.272	.112
	70.7	---	---	---	---	---	---	---	---	---	---	---	---	-.300	.108
47.50	8.7	---	---	---	---	---	---	---	---	---	---	---	---	-.300	.067
	42.3	---	---	---	---	---	---	---	---	---	---	---	---	-.305	.054
	70.7	---	---	---	---	---	---	---	---	---	---	---	---	-.356	.050
50.50	8.7	---	---	---	---	---	---	---	---	---	---	---	---	-.363	.206
	42.3	---	---	---	---	---	---	---	---	---	---	---	---	-.382	.020
	70.7	---	---	---	---	---	---	---	---	---	---	---	---	-.408	.002
53.50	8.7	---	---	---	---	---	---	---	---	---	---	---	---	---	.008
	42.3	---	---	---	---	---	---	---	---	---	---	---	---	-.405	-.002
	70.7	---	---	---	---	---	---	---	---	---	---	---	---	-.420	-.020
56.50	8.7	---	-.046	---	-.055	---	-.037	---	-.027	---	-.013	---	.010	-.197	.005
	42.3	---	-.040	---	-.049	---	-.030	---	-.020	---	-.009	---	.012	-.172	.002
	70.7	.007	.024	-.015	-.035	-.018	-.018	-.018	-.018	-.033	-.010	-.070	.006	-.120	.010
59.50	8.7	.010	-.012	-.012	-.025	-.020	-.020	-.018	-.002	-.020	.002	-.016	.008	-.025	.008
	42.3	.010	-.010	-.010	-.020	-.015	-.015	-.013	-.005	-.020	-.005	-.016	-.005	-.025	-.005
	70.7	.010	-.005	-.010	-.020	-.012	-.012	-.010	-.008	-.016	-.008	-.016	-.010	-.020	-.010

(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	0.117	0.050	0.099	0.050	0.080	0.071	0.064	0.089	---	---	---	---	0.021	0.155
	42.3	.104	.050	.091	.052	.081	.071	.065	.089	---	---	---	---	.023	.139
	70.7	.098	.048	.083	.053	.072	.069	.063	.081	---	---	---	---	.021	.101
15	8.7	.059	.011	.055	.014	.039	.033	.028	.050	---	---	---	---	-.004	.110
	42.3	.060	.002	.050	.012	.031	.027	.028	.041	---	---	---	---	-.010	.084
	70.7	.052	.011	.046	.019	.034	.027	.029	.039	---	---	---	---	-.016	.059
20	8.7	.021	---	-.001	---	-.001	---	-.004	---	---	---	---	---	-.026	---
	42.3	.019	-.018	-.009	-.030	-.005	-.005	-.003	.018	---	---	---	---	-.029	.049
	70.7	.004	-.026	-.011	-.028	-.001	-.002	-.003	.010	---	---	---	---	-.040	.019
25	8.7	.016	-.022	-.003	-.038	-.013	-.014	-.010	.008	---	---	---	---	---	.056
	42.3	.005	-.020	-.015	-.039	-.015	-.020	-.011	.007	---	---	---	---	---	.039
	70.7	-.006	-.024	-.023	-.034	-.017	-.023	-.016	0	---	---	---	---	-.037	.011
28.50	8.7	.023	0	-.010	-.028	.002	-.002	-.017	.001	---	---	---	---	-.009	.060
	42.3	.021	-.008	-.010	-.020	.002	0	-.016	0	---	---	---	---	-.010	.049
	70.7	.012	-.010	-.019	-.027	0	0	-.011	-.001	---	---	---	---	-.020	.019
31.50	8.7	.037	.010	.003	-.013	.010	.011	.001	.013	---	---	---	---	.004	---
	42.3	.030	.011	-.001	-.009	0	0	.002	.011	---	---	---	---	.007	---
	70.7	.019	.010	-.004	-.008	0	0	.007	.018	---	---	---	---	---	---
34.50	8.7	.078	.030	.060	.039	.051	.051	.046	.062	---	---	---	---	---	---
	42.3	.079	.031	.059	.031	.049	.049	.048	.065	---	---	---	---	---	---
	70.7	.079	.049	.060	.050	.059	.059	.054	.074	---	---	---	---	---	---
38.00	8.7	.097	---	.068	---	.032	---	.009	---	---	---	---	---	---	---
	42.3	.099	-.017	.061	-.005	.035	.029	0	.069	---	---	---	---	---	---
	70.7	.128	-.024	.100	-.002	.059	.050	.018	.092	---	---	---	---	---	---
41.50	8.7	.061	-.089	.035	-.064	-.012	-.020	-.048	.023	---	---	---	---	---	---
	42.3	.067	-.092	.034	-.072	-.020	-.026	-.051	.019	---	---	---	---	---	---
	70.7	.068	-.108	.033	-.084	-.023	-.028	-.052	.021	---	---	---	---	---	---
44.50	8.7	---	-.136	---	-.112	---	-.069	---	-.020	---	---	---	---	---	---
	42.3	.017	-.140	-.019	-.119	-.069	-.071	-.104	-.019	---	---	---	---	---	---
	70.7	.011	-.165	-.024	-.140	-.079	-.085	-.119	-.031	---	---	---	---	---	---
47.50	8.7	-.010	-.182	-.058	-.172	-.109	-.113	-.151	-.064	---	---	---	---	---	---
	42.3	.049	-.080	.003	-.180	-.036	-.127	-.071	-.073	---	---	---	---	---	---
	70.7	-.028	-.209	-.078	-.195	-.133	-.133	-.179	-.081	---	---	---	---	---	---
50.50	8.7	-.051	---	-.111	---	-.167	---	-.213	---	---	---	---	---	---	---
	42.3	-.053	-.240	-.121	-.231	-.117	-.175	-.222	-.137	---	---	---	---	---	---
	70.7	-.073	-.254	-.135	-.254	-.190	-.197	-.241	-.145	---	---	---	---	---	---
53.50	8.7	---	-.266	---	-.270	---	-.188	---	-.080	---	---	---	---	---	---
	42.3	-.064	-.276	-.106	-.276	-.179	-.190	-.220	-.088	---	---	---	---	---	---
	70.7	-.076	-.290	-.111	-.280	-.179	-.199	-.220	-.089	---	---	---	---	---	---
56.50	8.7	-.037	-.137	-.052	-.100	-.047	-.055	-.057	-.030	---	-.040	---	-.044	---	-.045
	42.3	-.034	-.120	-.050	-.085	-.041	-.049	-.047	-.020	---	-.037	---	-.044	---	-.047
	70.7	-.030	-.107	-.029	-.070	-.032	-.039	-.030	-.018	-.120	-.049	-.201	-.093	-.245	-.066
59.50	8.7	-.002	-.002	-.010	-.010	-.010	-.010	-.008	0	-.019	-.007	-.072	-.026	-.130	-.041
	42.3	-.003	-.002	-.012	-.012	-.009	-.009	-.005	0	-.019	-.018	-.071	-.031	-.130	-.054
	70.7	-.004	-.004	-.007	-.014	-.007	-.007	-.008	.001	-.018	-.018	-.075	-.049	-.129	-.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	0.061	0.006	0.068	0.019	0.042	0.035	0.035	0.068	0.010	0.071	0.003	0.100
	42.3	.074	.006	.061	.019	.042	.035	.035	.061	.010	.068	.003	.084
	70.7	.061	.006	.052	.026	.039	.035	.035	.042	.010	.045	-.003	.068
15	8.7	.052	-.023	.035	.003	.010	.006	.003	.035	-.013	.039	-.026	.071
	42.3	.042	-.023	.032	-.003	.010	.003	.003	.019	-.013	.035	-.023	.052
	70.7	.029	-.023	.029	.003	.010	.003	.003	.019	-.013	.019	-.026	.029
20	8.7	.029	.003	.010	-.029	-.003	-.010	-.023	.010	-.029	.010	-.029	.042
	42.3	.010	.003	.006	-.029	-.003	-.010	-.023	.003	-.029	.010	-.029	.035
	70.7	0	.003	.003	-.029	-.013	-.013	-.026	.003	-.029	.003	-.052	.006
25	8.7	.019	-.029	.010	-.029	-.013	-.019	-.026	.003	-.029	.010	-.035	.035
	42.3	.006	-.029	.003	-.029	-.013	-.023	-.026	-.003	-.029	.003	-.042	.019
	70.7	-.019	-.006	-.013	-.029	-.023	-.026	-.029	-.013	-.035	-.006	-.055	-.003
28.50	8.7	.013	-.029	.006	-.029	-.013	-.013	-.026	.003	-.052	.013	-.035	.042
	42.3	.006	-.029	.003	-.029	-.016	-.019	-.026	.003	-.052	.006	-.035	.029
	70.7	.003	-.035	.003	-.029	-.013	-.026	-.026	-.003	-.052	-.006	-.005	.003
31.50	8.7	.019	-.045	.003	-.029	-.019	-.026	-.026	.003	-.042	.013	-.058	.039
	42.3	.010	-.042	.003	-.029	-.019	-.029	-.026	-.006	-.042	.003	-.058	.029
	70.7	0	-.042	.003	-.026	-.013	-.023	-.026	.003	-.042	.003	-.061	.006
34.50	8.7	.042	-.061	.029	-.029	-.003	-.023	-.026	.026	-.035	.029	-.061	.061
	42.3	.035	-.052	.019	-.029	-.003	-.023	-.026	.003	-.045	.026	-.068	.042
	70.7	.019	-.052	.013	-.029	-.003	-.013	-.026	.010	-.048	.019	-.087	.035
38.00	8.7	.035	.235	.010	-.052	-.026	-.026	-.045	.010	-.084	.035	-.119	.074
	42.3	.035	.235	.006	-.052	-.026	-.026	-.055	.013	-.090	.035	-.126	.074
	70.7	.068	-.094	.035	-.052	-.010	-.013	-.042	.035	-.094	.068	-.158	.100
41.50	8.7	.035	-.100	.006	-.061	-.029	-.032	-.061	.003	-.094	.035	-.132	.074
	42.3	.035	-.123	.010	-.077	-.029	-.035	-.061	.003	-.110	.035	-.158	.077
	70.7	.052	-.158	.010	-.091	-.042	-.045	-.087	.003	-.303	.042	-.197	.100
44.50	8.7	.019	-.100	-.013	-.077	-.045	-.045	-.077	-.003	-.077	.029	-.152	.068
	42.3	.013	-.126	-.013	-.087	-.058	-.052	-.077	-.010	-.119	.023	-.158	.068
	70.7	.019	-.155	-.023	-.119	-.061	-.087	-.094	-.029	-.155	.003	-.190	.052
47.50	8.7	.019	-.094	-.013	-.068	-.068	-.055	-.061	-.013	-.094	.003	-.119	.084
	42.3	.035	-.100	.019	-.068	-.013	-.058	-.026	-.013	-.058	.003	-.084	.045
	70.7	.003	-.123	-.029	-.090	-.061	-.061	-.094	-.026	-.116	.003	-.158	.042
50.50	8.7	.003	-.055	-.023	-.029	-.045	-.026	-.061	.003	-.087	.019	-.100	.052
	42.3	.003	-.087	-.023	-.061	-.045	-.055	-.061	-.026	-.087	.003	-.100	.029
	70.7	-.003	-.031	-.029	-.061	-.052	-.058	-.061	-.029	-.094	-.013	-.116	.019
53.50	8.7	- - -	-.061	- - -	-.045	- - -	-.032	- - -	-.013	- - -	.003	- - -	.029
	42.3	.003	-.061	-.003	-.042	-.029	-.032	-.015	-.013	-.061	.003	-.061	.023
	70.7	.003	-.061	0	-.032	-.029	-.029	-.032	-.013	.055	.003	-.061	.013
56.50	8.7	-.003	-.058	-.016	-.068	-.029	-.035	-.029	-.026	-.052	-.013	-.058	.013
	42.3	-.003	-.058	-.016	-.068	-.026	-.035	-.029	-.026	-.045	-.013	-.055	.013
	70.7	-.003	-.058	-.016	-.039	-.022	-.035	-.022	-.026	-.029	-.013	-.029	.003
59.50	8.7	-.023	-.055	-.023	-.029	-.019	-.026	-.032	-.019	-.032	0	-.029	-.013
	42.3	-.023	-.045	-.023	-.029	-.016	-.029	-.032	-.019	-.029	0	-.029	-.013
	70.7	-.029	-.045	-.029	-.032	-.022	-.029	-.029	-.032	-.032	-.022	-.035	-.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	-0.019	0.126	-0.006	0.145	-0.032	0.168	-0.039	0.216	-0.003	0.073	-0.029	0.294
	42.3	-.019	.094	-.029	.123	-.039	.132	-.065	.158	-.041	.210	-.094	.197
	70.7	-.035	.061	-.058	.052	-.071	.061	-.100	.058	-.069	.085	-.100	.042
15	8.7	-.035	.087	-.058	.103	-.035	.035	-.042	.174	-.006	.232	-.039	.245
	42.3	-.035	.061	-.039	.090	-.058	.077	-.074	.119	-.060	.157	-.116	.155
	70.7	-.042	.029	-.071	.042	-.090	.026	-.100	.023	-.288	.050	-.116	.013
20	8.7	-.039	.061	-.045	.081	-.042	.123	-.042	.135	-.006	.201	-.055	.219
	42.3	-.045	.029	-.061	.061	-.055	.068	-.074	.094	-.066	.138	-.126	.139
	70.7	-.065	0	-.090	0	-.077	0	-.103	-.003	-.072	.029	-.126	-.019
25	8.7	-.049	.061	-.058	.068	-.058	.100	-.065	.126	-.028	.191	-.061	.206
	42.3	-.061	.029	-.071	.035	-.081	.065	-.077	.077	-.069	.122	-.126	.116
	70.7	-.074	-.010	-.090	-.010	-.077	-.006	-.103	-.013	-.082	.003	-.126	-.029
28.50	8.7	-.052	.061	-.071	.081	-.065	.123	-.068	.132	-.034	.213	-.039	.213
	42.3	-.061	.029	-.081	.048	-.074	.065	-.103	.094	-.091	.138	-.142	.132
	70.7	-.077	-.003	-.097	-.006	-.100	-.006	-.126	-.029	-.041	.003	-.126	-.029
31.50	8.7	-.074	.061	-.094	.090	-.097	.126	-.100	.158	-.066	.216	-.110	.229
	42.3	-.074	.029	-.100	.048	-.113	.068	-.142	.094	-.113	.150	-.148	.068
	70.7	-.084	.003	-.113	0	-.129	0	-.142	-.003	-.100	.029	-.126	.029
34.50	8.7	-.094	.077	-.113	.113	-.126	.145	-.135	.184	-.103	.232	-.135	.245
	42.3	-.103	.061	-.135	.081	-.169	.077	-.177	.126	-.160	.184	-.190	.181
	70.7	-.126	.029	-.161	.068	-.190	.032	-.200	.029	-.160	.085	-.190	.058
38.00	8.7	-.158	.119	-.197	.135	-.226	.194	-.294	.223	-.248	.278	-.296	.294
	42.3	-.190	.119	-.255	.077	-.294	.161	-.029	.190	-.317	.248	-.361	.255
	70.7	-.226	.126	-.145	.135	-.358	.177	-.419	.190	-.379	.248	-.384	.229
41.50	8.7	-.190	.119	-.232	.152	-.258	.194	-.300	.223	-.317	.279	-.406	.284
	42.3	-.219	.119	-.297	.155	-.355	.194	-.439	.219	-.470	.270	-.545	.268
	70.7	-.271	.132	-.355	.177	-.435	.226	-.535	.255	-.524	.310	-.771	.300
44.50	8.7	-.194	.094	-.242	.129	-.258	.161	-.303	.190	-.323	.238	-.448	.229
	42.3	-.213	.097	-.287	.129	-.348	.161	-.455	.184	-.511	.223	-.642	.229
	70.7	-.261	.087	-.329	.129	-.364	.194	-.471	.190	-.571	.238	-.771	.229
47.50	8.7	-.158	.065	-.190	.097	-.197	.129	-.235	-.019	-.257	.028	-.374	.174
	42.3	-.106	.065	-.158	.097	-.197	.129	-.294	-.019	-.364	.028	-.477	.165
	70.7	-.200	.065	-.265	.097	-.297	.129	-.368	-.019	-.480	.028	-.690	.165
50.50	8.7	-.129	.061	-.155	.081	-.184	.097	-.197	.110	-.194	.154	-.287	.132
	42.3	-.139	.045	-.187	.065	-.235	.090	-.329	.094	-.445	.122	-.642	.100
	70.7	-.145	.035	-.194	.060	-.203	.071	-.290	.077	-.379	.100	-.610	.068
53.50	8.7	- - -	.029	- - -	.048	- - -	.065	- - -	.061	- - -	.100	- - -	.068
	42.3	-.094	.029	-.129	.048	-.158	.058	-.219	.061	-.317	.091	-.545	.035
	70.7	-.084	.029	-.113	.032	-.132	.048	-.190	.045	-.254	.060	-.458	-.029
56.50	8.7	-.061	.013	-.081	.035	-.094	.045	-.261	.051	-.072	- - -	-.094	.051
	42.3	-.061	.013	-.090	.026	-.100	.035	-.294	.035	-.166	- - -	-.287	.019
	70.7	-.052	.013	-.061	.019	-.077	.019	-.100	.019	- - -	- - -	-.247	-.051
59.50	8.7	-.035	.013	-.045	.026	-.051	.026	-.061	.045	- - -	- - -	-.061	.045
	42.3	-.035	.006	-.051	.019	-.051	.019	-.071	.019	- - -	- - -	-.103	.013
	70.7	-.039	.006	-.051	-.019	-.054	-.019	-.077	-.019	- - -	- - -	-.135	-.051

NACA

TABLE III.- 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	8.7	0.083	0.009	0.067	0.017	0.052	0.040	0.035	0.057	0.018	0.075	0.002	0.110
	42.3	.083	.009	.058	.017	.052	.040	.035	.052	.017	.075	.002	.102
	70.7	.067	.009	.050	.017	.047	.035	.035	.047	.017	.068	.002	.068
15	8.7	.050	-.017	.033	-.005	.018	.013	.002	.027	-.010	.052	-.015	.077
	42.3	.042	-.017	.028	-.005	.018	.002	.002	.015	-.010	.038	-.023	.057
	70.7	.033	-.017	.022	-.005	.018	.002	.002	.015	-.010	.030	-.023	.035
20	8.7	.028	-.028	.011	-.025	.002	-.007	.015	.002	-.023	.035	-.032	.052
	42.3	.017	-.030	0	-.025	-.003	-.010	.015	.002	-.027	.015	-.040	.035
	70.7	0	-.033	0	-.025	-.007	-.015	.015	.002	-.032	.002	-.045	.010
25	8.7	.017	-.033	0	-.033	-.010	-.015	-.023	.002	-.032	.015	-.040	.035
	42.3	0	-.033	-.005	-.033	-.015	-.015	-.027	-.003	-.037	.013	-.045	.027
	70.7	-.005	-.033	-.011	-.033	-.015	-.015	-.023	-.015	-.037	.002	-.045	.002
28.50	8.7	.017	-.033	0	-.028	-.010	-.015	-.023	.002	-.032	.027	-.040	.043
	42.3	.008	-.033	0	-.028	-.015	-.015	-.023	.002	-.032	.015	-.045	.035
	70.7	0	-.038	-.005	-.033	-.015	-.015	-.023	-.015	-.032	.002	-.045	.002
31.50	8.7	.017	-.042	0	-.033	-.015	-.015	-.032	.002	-.043	.027	-.053	.052
	42.3	.012	-.042	0	-.033	-.015	-.015	-.028	-.007	-.043	.015	-.057	.035
	70.7	0	-.042	0	-.028	-.015	-.015	-.028	.002	-.043	.007	-.065	.013
34.50	8.7	.045	-.050	.022	-.033	.002	-.013	-.020	.007	-.045	.043	-.065	.065
	42.3	.033	-.050	.017	-.033	.002	-.012	-.023	.005	-.048	.035	-.073	.057
	70.7	.022	-.035	.009	-.030	.002	-.007	-.023	.003	-.048	.030	-.082	.035
38.00	8.7	.060	-.083	-.017	-.053	-.015	-.024	-.043	.003	-.060	.057	-.132	.105
	42.3	.042	-.072	.008	-.053	-.024	-.020	-.065	.010	-.107	.060	-.148	.090
	70.7	.075	-.100	.017	-.058	.002	-.010	-.045	.035	-.107	.065	-.173	.115
41.50	8.7	.050	-.117	.003	-.083	-.032	-.044	-.074	.002	-.120	.092	-.175	.030
	42.3	.050	-.134	.003	-.100	-.037	-.049	-.082	-.003	-.132	.092	-.190	.060
	70.7	.058	-.157	.003	-.117	-.044	-.057	-.099	.002	-.165	.095	-.245	.115
44.50	8.7	.016	-.134	-.017	-.100	-.054	-.057	-.079	-.020	-.035	.035	-.142	.065
	42.3	.016	-.139	-.017	-.105	-.057	-.062	-.099	-.073	-.017	.035	-.152	.055
	70.7	.016	-.175	-.025	-.134	-.074	-.072	-.124	-.040	-.060	.02	-.232	.065
47.50	8.7	.017	-.017	-.017	-.072	-.049	-.054	-.092	-.033	-.119	.015	-.148	.052
	42.3	.012	-.125	.012	-.100	-.007	-.055	-.040	-.072	-.070	.015	-.092	.052
	70.7	0	-.145	-.033	-.117	-.074	-.077	-.107	-.040	-.141	.003	-.190	.043
50.50	8.7	0	-.067	-.028	-.050	-.049	-.024	-.029	.002	-.097	.030	-.120	.052
	42.3	0	-.100	-.028	-.053	-.049	-.034	-.029	-.032	-.09	.002	-.127	.027
	70.7	-.008	-.109	-.033	-.058	-.057	-.055	-.052	-.040	-.110	.002	-.132	.018
53.50	8.7	- - -	-.067	- - -	-.050	- - -	-.032	- - -	-.015	- - -	.010	- - -	.027
	42.3	0	-.067	-.017	-.050	-.032	-.032	-.047	-.01	-.07	.002	-.052	.018
	70.7	0	-.058	-.017	-.050	-.024	-.032	-.040	-.015	-.07	.002	-.070	.015
56.50	8.7	-.008	-.040	-.025	-.042	-.032	-.027	-.042	-.015	-.04	-.007	-.060	.015
	42.3	-.005	-.040	-.022	-.042	-.032	-.027	-.040	-.015	-.04	-.037	-.057	.010
	70.7	-.002	-.032	-.015	-.040	-.015	-.023	-.023	-.020	-.03	-.012	-.050	.002
59.50	8.7	-.003	-.028	-.020	-.037	-.018	-.020	-.023	-.015	-.037	-.007	-.032	.010
	42.3	-.003	-.028	-.020	-.037	-.018	-.020	-.023	-.015	-.037	-.00	-.032	.005
	70.7	-.007	-.028	-.023	-.037	-.018	-.015	-.023	-.013	-.037	-.02	-.032	-.015

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	-0.012	0.135	-0.023	0.168	-0.028	0.200	-0.032	0.235	-0.040	0.2[illegible]	-0.04	0.3[illegible]
	42.3	-.014	.110	-.028	.127	-.040	.150	-.047	.170	-.040	.1[illegible]	-.10	.21
	70.7	-.033	.072	-.043	.068	-.055	.095	-.0[illegible]	.0[illegible]	-.124	.0[illegible]	-.14	.0[illegible]
15	8.7	-.032	.077	-.017	.123	-.037	.152	-.037	.1[illegible]	-.049	.22[illegible]	-.04	.2[illegible]
	42.3	-.032	.058	-.049	.085	-.097	.105	-.077	.14[illegible]	-.107	.14[illegible]	-.127	.1[illegible]
	70.7	-.043	.035	-.055	.035	-.082	-.035	-.098	.035	-.124	.01[illegible]	-.127	.002
20	8.7	-.040	.068	-.045	.093	-.048	.122	-.060	.160	-.074	.16[illegible]	-.060	.232
	42.3	-.115	.047	-.057	.050	-.053	.095	-.080	.102	-.107	.116	-.127	.142
	70.7	-.065	.007	-.082	.002	-.090	.102	-.098	.002	-.124	-.007	-.124	-.00[illegible]
25	8.7	-.043	.057	-.048	.168	-.040	.110	-.040	.152	-.057	.175	-.050	.21[illegible]
	42.3	-.057	.035	-.055	.052	-.077	.068	-.090	.060	-.119	.111	-.124	.132
	70.7	-.065	.002	-.082	.002	-.090	.002	-.098	-.003	-.116	-.03[illegible]	-.11[illegible]	-.017
28.50	8.7	-.048	.068	-.048	.058	-.048	.118	-.049	.152	-.057	.166	-.060	.220
	42.3	-.065	.040	-.073	.052	-.082	.077	-.090	.102	-.119	.111	-.133	.141
	70.7	-.070	.002	-.082	.002	-.095	.002	-.098	.002	-.116	-.153	-.116	-.00[illegible]
31.50	8.7	-.065	-.052	-.073	.05[illegible]	-.082	.135	-.082	.165	-.090	.14	-.065	.330
	42.3	-.073	-.035	-.090	-.040	-.107	.095	-.115	.110	-.132	.127	-.132	.157
	70.7	-.082	.013	-.090	.010	-.107	.023	-.115	.010	-.124	.013	-.12[illegible]	.305
34.50	8.7	-.082	.002	-.103	.127	-.115	.168	-.123	.202	-.132	.22	-.124	.270
	42.3	-.098	.072	-.132	.093	-.148	.118	-.165	.152	-.174	.16[illegible]	-.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	-.273	.270	-.281	.305
	42.3	-.198	.122	-.265	.152	-.320	.185	-.357	.218	-.350	.245	-.331	.273
	70.7	-.248	.152	-.327	.168	-.390	.202	-.415	.218	-.384	.245	-.348	.265
41.50	8.7	-.215	.135	-.265	.168	-.315	.207	-.355	.247	-.417	.266	-.430	.301
	42.3	-.257	.135	-.332	.168	-.403	.207	-.477	.243	-.526	.261	-.546	.295
	70.7	-.312	.160	-.232	.202	-.497	.243	-.593	.285	-.677	.303	-.709	.331
44.50	8.7	-.227	.110	-.277	.143	-.320	.173	-.382	.310	-.450	.224	-.513	.253
	42.3	-.257	.110	-.332	.143	-.740	.173	-.503	.310	-.593	.224	-.629	.245
	70.7	-.265	.110	-.377	.152	-.445	.165	-.543	.218	-.710	.224	-.770	.257
47.50	8.7	-.182	.095	-.215	.113	-.248	.135	-.307	.153	-.400	.161	-.475	.190
	42.3	-.140	.085	-.182	.110	-.248	.135	-.340	.152	-.430	.161	-.472	.174
	70.7	-.240	.023	-.298	.105	-.365	.135	-.465	.152	-.618	.151	-.723	.167
50.50	8.7	-.145	.072	-.170	.090	-.207	.110	-.248	.115	-.333	.111	-.422	.116
	42.3	-.165	.035	-.203	.068	-.282	.085	-.240	.060	-.559	.077	-.662	.083
	70.7	-.165	.018	-.206	.057	-.262	.060	-.397	.077	-.518	.052	-.652	.050
53.50	8.7	- - -	.043	- - -	.090	- - -	.068	- - -	.068	- - -	.052	- - -	.050
	42.3	-.098	.035	-.132	.047	-.198	.052	-.298	.052	.476	.027	-.608	.002
	70.7	-.090	.027	-.110	.035	-.157	.034	-.232	.018	.375	-.028	-.538	-.066
56.50	8.7	-.065	.022	-.082	.013	-.107	.032	-.128	.032	-.149	.010	-.149	.002
	42.3	-.073	.015	-.098	.025	-.132	.022	-.198	.015	-.342	-.013	-.472	-.040
	70.7	-.055	.002	-.069	.013	-.102	.005	-.148	-.010	-.230	-.069	-.325	-.132
59.50	8.7	-.043	.013	-.050	.022	-.070	.018	-.082	.018	-.066	.005	-.062	-.007
	42.3	-.043	.008	-.057	.013	-.077	.007	-.101	.002	-.191	-.027	-.248	-.053
	70.7	-.040	-.018	-.054	-.015	-.077	-.020	-.093	-.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	0.088	0.012	0.066	0.019	0.048	0.035	0.028	0.055	0.011	0.068
	42.3	.079	.012	.063	.019	.048	.035	.028	.048	.011	.064
	70.7	.064	.012	.052	.019	.048	.035	.028	.041	.011	.048
15	8.7	.052	-.012	.032	-.008	.017	.008	-.003	.019	-.019	.035
	42.3	.041	-.019	.028	-.012	.015	.001	-.005	.011	-.019	.024
	70.7	.031	-.019	.021	-.008	.015	.001	-.005	.008	-.019	.015
20	8.7	.024	-.032	.008	-.031	-.005	-.012	-.025	-.005	-.039	.015
	42.3	.015	-.032	.005	-.031	-.005	-.019	-.025	-.012	-.039	.001
	70.7	.001	-.032	-.008	-.035	-.012	-.019	-.032	-.019	-.039	.012
25	8.7	.015	-.032	-.001	-.035	-.012	-.023	-.037	-.012	-.039	.001
	42.3	.001	-.032	-.015	-.035	-.019	-.023	-.039	-.019	-.045	-.008
	70.7	-.009	-.036	-.015	-.035	-.019	-.025	-.039	-.025	-.045	-.019
28.50	8.7	.015	-.032	-.001	-.035	-.005	-.019	-.039	-.012	-.043	.001
	42.3	.008	-.032	-.008	-.035	-.019	-.019	-.039	-.012	-.043	-.006
	70.7	-.005	-.041	-.015	-.035	-.019	-.019	-.039	-.025	-.043	-.019
31.50	8.7	.015	-.041	-.001	-.035	-.012	-.023	-.039	-.012	-.052	.001
	42.3	.008	-.041	-.008	-.035	-.015	-.025	-.039	-.012	-.052	-.006
	70.7	-.005	-.041	-.015	-.035	-.019	-.019	-.039	-.012	-.052	-.012
34.50	8.7	.041	-.036	.023	-.035	-.001	-.019	-.025	.001	-.052	.024
	42.3	.035	-.045	.015	-.035	-.005	-.012	-.025	.001	-.052	.015
	70.7	.021	-.045	.009	-.035	-.001	-.012	-.025	.001	-.052	.008
38.00	8.7	.048	-.092	.019	-.068	-.015	-.032	-.061	.001	-.092	.035
	42.3	.041	-.096	.012	-.068	-.023	-.031	-.066	.008	-.110	.041
	70.7	.082	-.103	.045	-.061	.008	-.012	-.052	.028	-.106	.068
41.50	8.7	.048	-.139	.009	-.102	-.032	-.059	-.088	-.012	-.132	.028
	42.3	.048	-.152	.009	-.115	-.039	-.066	-.099	-.016	-.146	.028
	70.7	.061	-.179	.009	-.139	-.045	-.072	-.115	-.016	-.179	.041
44.50	8.7	.017	-.152	-.021	-.122	-.063	-.079	-.112	-.039	-.159	.001
	42.3	.017	-.166	-.021	-.128	-.072	-.082	-.119	-.039	-.172	.001
	70.7	.012	-.199	-.035	-.168	-.082	-.106	-.143	-.056	-.199	-.012
47.50	8.7	.008	-.139	-.021	-.115	-.059	-.072	-.106	-.039	-.003	-.008
	42.3	.035	-.142	.005	-.122	-.019	-.066	-.092	-.052	-.072	-.012
	70.7	-.005	-.166	-.048	-.142	-.086	-.099	-.132	-.066	-.172	-.025
50.50	8.7	-.005	-.083	-.035	-.068	-.059	-.045	-.092	-.021	-.119	-.001
	42.3	-.005	-.116	-.035	-.107	-.059	-.072	-.092	-.052	-.119	-.025
	70.7	-.019	-.126	-.041	-.108	-.072	-.082	-.106	-.059	-.132	-.039
53.50	8.7	- - -	-.072	- - -	-.061	- - -	-.045	- - -	-.036	- - -	.012
	42.3	-.005	-.072	-.021	-.061	-.052	-.045	-.066	-.036	-.079	.012
	70.7	-.005	-.126	-.019	-.055	-.032	-.036	-.052	-.029	-.066	.012
56.50	8.7	-.015	-.051	-.028	- - -	-.032	-.040	-.052	-.030	-.066	-.022
	42.3	-.012	-.048	-.021	- - -	-.032	-.036	-.052	-.031	-.066	-.022
	70.7	-.007	-.046	- - -	- - -	-.024	-.035	-.054	-.024	-.039	-.022
59.50	8.7	-.012	-.035	- - -	- - -	-.032	-.034	-.038	-.064	-.044	-.017
	42.3	-.017	-.035	- - -	- - -	-.032	-.032	-.036	-.026	-.042	-.022
	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	-0.008	0.135	-0.032	0.158	-0.039	0.202	-0.043	0.229
	42.3	-.004	.095	-.025	.108	-.039	.122	-.052	.148	-.066	.175
	70.7	-.008	.059	-.025	.058	-.052	.061	-.079	.068	-.106	.068
15	8.7	-.031	.072	-.039	.095	-.045	.115	-.048	.155	-.049	.189
	42.3	-.031	.059	-.043	.068	-.059	.082	-.066	.102	-.086	.122
	70.7	-.035	.032	-.052	.028	-.045	.029	-.092	.028	-.112	.028
20	8.7	-.039	.041	-.052	.064	-.052	.082	-.052	.119	-.052	.148
	42.3	-.043	.028	-.052	.041	-.066	.055	-.079	.079	-.106	.095
	70.7	-.052	.001	-.070	.001	-.086	-.005	-.099	-.003	-.112	-.005
25	8.7	-.048	.032	-.052	.051	-.052	.068	-.045	.108	-.045	.135
	42.3	-.052	.019	-.066	.028	-.072	.041	-.079	.068	-.099	.082
	70.7	-.057	-.008	-.075	-.012	-.086	-.012	-.096	-.012	-.106	-.012
28.50	8.7	-.048	.032	-.052	.055	-.052	.082	-.052	.122	-.052	.148
	42.3	-.055	.019	-.066	.032	-.075	.045	-.079	.068	-.099	.095
	70.7	.061	-.008	-.079	-.012	-.088	-.012	-.159	-.012	-.099	-.012
31.50	8.7	-.061	.036	-.066	.064	-.072	.082	-.066	.126	-.070	.162
	42.3	-.061	.019	-.079	.041	-.086	.055	-.099	.082	-.110	.098
	70.7	-.061	.005	-.086	.001	-.099	.001	-.106	.008	-.106	.008
34.50	8.7	-.068	.059	-.092	.106	-.106	.122	-.106	.162	-.106	.195
	42.3	-.075	.045	-.106	.068	-.119	.095	-.139	.122	-.136	.148
	70.7	-.075	.032	-.106	.035	-.132	.041	-.139	.048	-.139	.097
38.00	8.7	-.088	.085	-.199	.122	-.239	.162	-.266	.202	-.279	.242
	42.3	-.168	.085	-.226	.122	-.289	.148	-.367	.189	-.350	.225
	70.7	-.188	.119	-.279	.148	-.360	.175	-.409	.206	-.406	.229
41.50	8.7	-.201	.085	-.266	.135	-.320	.168	-.369	.215	-.426	.242
	42.3	-.221	.085	-.306	.135	-.380	.168	-.460	.215	-.507	.242
	70.7	-.274	.112	-.373	.162	-.447	.202	-.547	.249	-.620	.282
44.50	8.7	-.221	.065	-.279	.102	-.333	.202	-.386	.175	-.447	.202
	42.3	-.234	.065	-.313	.102	-.380	.202	-.480	.175	-.348	.202
	70.7	-.270	.059	-.345	.102	-.420	.202	-.520	.182	-.600	.209
47.50	8.7	-.181	.045	-.226	.075	-.266	.102	-.320	.131	-.300	.148
	42.3	-.128	.039	-.172	.072	-.219	.095	-.306	.126	-.300	.142
	70.7	-.228	.032	-.286	.068	-.346	.095	-.426	.122	-.527	.135
50.50	8.7	-.148	.039	-.172	.064	-.213	.082	-.259	-.172	-.326	.095
	42.3	-.148	.019	-.193	.041	-.246	.055	-.346	-.199	-.473	.068
	70.7	-.161	.005	-.199	.028	-.246	.041	-.320	.055	-.440	.064
53.50	8.7	- - -	.012	- - -	.028	- - -	.041	- - -	.041	- - -	.041
	42.3	-.101	.005	-.119	.024	-.166	.028	-.233	.028	-.373	.017
	70.7	-.081	.005	-.106	.015	-.139	.015	-.199	.008	-.289	-.016
56.50	8.7	-.071	.004	-.086	.015	-.106	.016	-.132	.023	-.166	.003
	42.3	-.071	0	-.086	.003	-.119	.004	-.172	.005	-.273	-.019
	70.7	-.048	-.008	-.065	-.008	-.090	-.011	-.124	-.017	-.118	-.056
59.50	8.7	-.047	-.001	-.052	.003	-.075	.003	-.064	.007	-.102	-.011
	42.3	-.047	-.008	-.057	-.008	-.082	-.011	-.098	-.013	-.162	-.033
	70.7	-.039	-.021	-.052	-.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	0.070	0.006	0.057	0.027	0.043	0.045	0.024	0.055	0.009	0.082
	42.3	.064	.006	.064	.027	.043	.039	.024	.049	.009	.070
	70.7	.058	.002	.057	.027	.045	.033	.031	.043	.015	.058
15	8.7	.039	-.018	.045	-.004	.009	.009	-.006	.018	-.016	.045
	42.3	.027	-.022	.027	-.010	.009	.002	-.006	.006	-.016	.033
	70.7	.015	-.022	.021	-.004	.009	.002	-.006	.006	-.013	.021
20	8.7	.009	-.034	.009	-.022	-.016	-.016	-.024	-.006	-.032	.015
	42.3	.002	-.034	.002	-.022	-.016	-.016	-.027	-.012	-.032	.009
	70.7	-.018	-.040	-.010	-.022	-.016	-.022	-.031	-.018	-.034	-.004
25	8.7	-.001	-.043	-.004	-.028	-.022	-.025	-.031	-.018	-.037	.005
	42.3	-.016	-.043	-.010	-.028	-.028	-.025	-.037	-.018	-.044	0
	70.7	-.022	-.047	-.013	-.028	-.028	-.028	-.037	-.024	-.044	-.013
28.50	8.7	-.002	-.040	.015	-.022	-.022	-.016	-.034	-.015	-.040	.009
	42.3	-.010	-.040	-.010	-.022	-.022	-.016	-.034	-.018	-.040	.009
	70.7	-.022	-.048	-.010	-.031	-.022	-.025	-.034	-.027	-.040	-.013
31.50	8.7	-.001	-.047	-.004	-.031	-.016	-.022	-.037	-.016	-.047	.009
	42.3	-.006	-.047	-.004	-.031	-.016	-.022	-.037	-.018	-.047	.005
	70.7	-.022	-.047	-.010	-.029	-.028	-.022	-.037	-.018	-.047	.004
34.50	8.7	.017	-.053	.021	-.028	-.010	-.010	-.031	.002	-.040	.033
	42.3	.017	-.047	.015	-.022	-.010	-.010	-.031	0	-.040	.027
	70.7	.002	-.043	.015	-.022	-.010	-.004	-.028	0	-.040	.021
38.00	8.7	.033	-.093	.015	-.055	-.028	-.025	-.055	.006	-.096	.045
	42.3	.027	-.096	.015	-.053	-.028	-.016	-.067	.006	-.110	.054
	70.7	.064	-.102	.051	-.046	-.004	0	-.049	.031	-.107	.062
41.50	8.7	.027	-.151	.005	-.095	-.053	-.053	-.092	-.018	-.142	.039
	42.3	.027	-.157	.005	-.108	0	-.053	-.104	-.018	-.157	.039
	70.7	.031	-.182	.005	-.126	-.065	-.065	-.120	-.018	-.194	.053
44.50	8.7	-.004	-.166	-.026	-.120	-.081	-.075	-.126	-.043	-.175	.012
	42.3	-.010	-.179	-.031	-.126	-.090	[illegible]	-.132	-.043	[illegible]	.012
	70.7	-.013	[illegible]	-.040	-.156	-.102	[illegible]	[illegible]	[illegible]	-.212	.002
47.50	8.7	-.013	-.157	-.028	-.124	-.077	-.077	-.116	-.049	-.151	-.004
	42.3	.015	-.157	.006	-.120	-.092	[illegible]	[illegible]	-.055	-.099	-.004
	70.7	-.034	-.194	-.053	-.144	-.102	-.102	-.144	[illegible]	[illegible]	-.016
50.50	8.7	-.032	-.096	-.040	-.065	-.077	-.040	-.104	-.028	-.126	.009
	42.3	-.028	-.133	-.040	-.095	-.077	-.077	-.104	-.055	-.126	.020
	70.7	-.040	-.139	-.046	-.108	-.086	-.083	-.116	.067	-.139	-.028
53.50	8.7	- - -	-.083	- - -	-.059	- - -	-.047	[illegible]	-.034	- - -	-.00[illegible]
	42.3	-.022	-.083	-.022	-.059	-.047	-.049	-.067	-.034	-.077	[illegible]
	70.7	-.022	-.071	-.022	-.046	-.040	-.040	-.055	-.031	-.065	-.012
56.50	8.7	-.034	-.052	-.028	-.042	-.040	-.030	-.055	-.033	-.059	-.011
	42.3	-.031	-.048	-.022	-.042	-.040	-.028	-.055	-.032	-.051	-.013
	70.7	-.011	-.048	-.016	-.038	-.079	-.028	-.036	-.027	-.038	-.015
59.50	8.7	-.023	-.039	-.018	-.029	-.088	-.086	-.037	-.023	-.031	-.011
	42.3	-.023	-.038	-.017	-.025	-.085	-.087	-.034	-.025	-.033	-.015
	70.7	-.023	-.042	-.020	-.035	-.087	-.093	-.014	-.040	-.039	-.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	-0.004	0.107	-0.018	0.135	-0.034	0.167	-0.034	0.195
	42.3	-.004	.094	-.018	.110	-.040	.131	-.053	.150
	70.7	-.004	.070	-.031	.067	-.059	.061	-.075	.014
15	8.7	-.028	.070	-.039	.094	-.053	.122	-.050	.150
	42.3	-.028	.049	-.043	.067	-.061	.082	-.071	.101
	70.7	-.028	.027	-.055	.027	-.077	.024	-.092	.027
20	8.7	-.040	.039	-.049	.067	-.053	.088	-.053	.117
	42.3	-.040	.027	-.055	.039	-.071	.094	-.077	.072
	70.7	-.053	.002	-.067	0	-.089	-.009	-.096	-.004
25	8.7	-.044	.027	-.053	.049	-.054	.070	-.047	.101
	42.3	-.053	.015	-.055	.027	-.077	.045	-.077	.064
	70.7	-.053	-.007	-.071	-.012	-.089	-.016	-.093	-.016
28.50	8.7	-.047	.033	-.053	.056	-.051	.082	-.047	.113
	42.3	-.053	.021	-.055	.031	-.075	.045	-.077	.064
	70.7	-.053	-.004	-.067	-.006	-.087	-.013	-.090	-.010
31.50	8.7	-.053	.033	-.061	.067	-.065	.094	-.059	.125
	42.3	-.053	.021	-.067	.043	-.081	.057	-.087	.076
	70.7	-.059	.005	-.080	.006	-.089	.002	-.096	.009
34.50	8.7	-.061	.064	-.080	.098	-.089	.131	-.096	.162
	42.3	-.065	.049	-.092	.076	-.114	.084	-.120	.121
	70.7	-.065	.029	-.092	.039	-.114	.070	-.120	.052
38.00	8.7	-.142	.088	-.202	.129	-.126	.048	-.269	.205
	42.3	-.163	.094	-.233	.129	-.303	.167	-.333	.193
	70.7	-.181	.123	-.282	.159	-.370	.186	-.402	.211
41.50	8.7	-.212	.091	-.291	.141	-.364	.180	-.390	.211
	42.3	-.237	.094	-.330	.141	-.309	.180	-.470	.211
	70.7	-.286	.113	-.398	.165	-.499	.216	-.541	.248
44.50	8.7	-.237	.064	-.306	.110	-.383	.145	-.415	.174
	42.3	-.255	.066	-.337	.110	-.432	.145	-.494	.174
	70.7	-.289	.058	-.373	.104	-.472	.145	-.531	.174
47.50	8.7	-.206	.042	-.248	.080	-.309	.106	-.347	.125
	42.3	-.135	.036	-.312	.071	-.260	.100	-.317	.125
	70.7	-.237	.027	-.310	.067	-.399	.094	-.458	.115
50.50	8.7	-.154	.039	-.190	.067	-.248	.072	-.286	.008
	42.3	-.157	.011	-.200	.037	-.285	.042	-.366	.064
	70.7	-.163	-.001	-.214	.022	-.291	.033	-.347	.043
53.50	8.7	- - -	.015	- - -	.031	- - -	.033	- - -	.036
	42.3	-.089	.009	-.129	.021	-.187	.021	-.261	.021
	70.7	-.077	.009	-.116	.015	-.163	.009	-.206	.002
56.50	8.7	-.065	.001	-.089	.012	-.123	.001	-.022	-.002
	42.3	-.065	.001	-.089	.001	-.138	-.004	-.182	-.012
	70.7	-.048	-.001	-.064	0	-.107	-.023	-.132	-.039
59.50	8.7	-.047	.001	-.059	0	-.085	-.010	-.096	-.005
	42.3	-.044	-.010	-.060	-.002	-.077	-.023	-.118	-.028
	70.7	-.042	-.023	-.049	-.025	-.088	-.048	-.103	-.053

NACA

TABLE III.- CONTINUED

(e) M,0.80.

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	8 Upper surface	8 Lower surface
10	8.7	0.071	0.006	0.051	0.006	0.040	0.031	0.025	0.053	0.010	0.078	-0.017	0.093	-0.020	0.127
	42.3	.065	.006	.048	.003	.040	.019	.025	.050	.010	.072	.017	.082	-.023	.104
	70.7	.054	.002	.042	.008	.040	.028	.031	.042	.010	.055	.017	.053	-.023	.064
15	8.7	.016	-.021	.014	-.021	.005	0	-.009	.019	-.020	.044	-.043	.059	-.043	.087
	42.3	.025	-.026	.014	-.026	0	-.006	-.009	.008	-.020	.027	-.043	.036	-.049	.059
	70.7	.014	-.024	.005	-.026	0	-.006	-.003	.008	-.018	.016	-.043	.014	-.051	.023
20	8.7	.008	-.041	-.009	-.043	-.017	-.025	-.026	-.007	-.038	.014	-.054	.025	-.052	.053
	42.3	.002	-.041	-.017	-.043	-.023	-.028	-.029	-.015	-.038	.005	-.054	.014	-.050	.031
	70.7	-.021	-.043	-.026	-.043	-.028	-.028	-.032	-.018	-.038	-.012	-.066	-.015	-.071	-.007
25	8.7	-.003	-.047	-.021	-.052	-.028	-.036	-.035	-.018	-.044	-.001	-.058	.014	-.052	.042
	42.3	-.018	-.047	-.032	-.052	-.036	-.036	-.037	-.020	-.046	-.007	-.066	.002	-.066	.019
	70.7	-.025	-.049	-.047	-.052	-.036	-.037	-.037	-.026	-.050	-.020	-.069	-.020	-.071	-.015
28.50	8.7	-.003	-.043	-.021	-.043	-.028	-.028	-.037	-.015	-.044	.007	-.058	.019	-.052	.045
	42.3	-.015	-.043	-.026	-.047	-.032	-.028	-.037	-.015	-.046	-.001	-.060	.014	-.060	.031
	70.7	-.021	-.049	-.032	-.055	-.032	-.037	-.037	-.026	-.046	-.018	-.066	-.020	-.071	-.015
31.50	8.7	-.003	-.043	-.021	-.052	-.028	-.034	-.037	-.015	-.046	.007	-.054	.025	-.050	.053
	42.3	-.009	-.043	-.024	-.052	-.028	-.034	-.037	-.018	-.046	-.006	-.066	.008	-.066	.031
	70.7	-.021	-.043	-.032	-.049	-.034	-.028	-.037	-.018	-.046	-.012	-.072	-.009	-.071	0
34.50	8.7	.022	-.049	.002	-.043	-.011	-.017	-.026	.002	-.044	.033	-.069	.051	-.071	.087
	42.3	.019	-.032	.002	-.043	-.017	-.017	-.026	.002	-.044	.027	-.072	.036	-.077	.048
	70.7	.006	-.032	-.007	-.038	-.017	-.017	-.026	-.003	-.044	.016	-.072	.019	-.082	.016
38.00	8.7	.016	-.095	.002	-.078	-.023	-.034	-.058	.002	.014	.044	-.160	.082	-.088	.014
	42.3	.031	-.100	-.001	-.073	-.034	-.028	-.066	.010	-.001	.055	-.179	.087	-.229	.014
	70.7	.065	-.100	.036	-.066	0	-.006	-.043	.016	-.106	.034	-.195	.114	-.261	.155
41.50	8.7	.027	-.166	-.009	-.129	-.051	-.062	-.099	-.015	-.165	.044	-.253	.082	-.337	.132
	42.3	.036	-.174	-.009	-.146	-.057	-.074	-.105	-.018	-.182	.044	-.281	.082	-.375	.132
	70.7	.036	-.203	-.009	-.163	-.062	-.083	-.128	-.015	-.213	.055	-.333	.104	-.444	.140
44.50	8.7	.105	-.192	-.049	-.163	-.094	-.096	-.139	-.045	-.205	.010	-.293	.350	-.383	.098
	42.3	.105	-.203	-.049	-.169	-.096	-.102	-.150	-.049	-.216	.010	-.310	.350	-.416	.098
	70.7	.097	-.246	-.060	-.203	-.116	-.127	-.197	-.071	-.247	-.001	-.350	.042	-.461	.093
47.50	8.7	-.021	-.072	-.052	-.157	-.091	-.096	-.015	-.054	-.192	-.007	-.244	.025	-.286	.070
	42.3	.014	-.072	-.015	-.169	-.045	-.108	-.071	-.060	-.120	-.012	-.179	.022	-.224	.064
	70.7	-.041	-.220	-.078	-.189	-.108	-.125	-.162	-.077	-.219	-.034	-.293	.010	-.148	.055
50.50	8.7	-.032	-.112	-.066	-.100	-.091	-.062	-.116	-.033	-.143	.002	-.187	.049	-.195	.053
	42.3	-.032	-.152	-.066	-.115	-.093	-.096	-.116	-.066	-.148	-.007	-.191	-.006	-.212	.011
	70.7	-.047	-.157	-.078	-.146	-.096	-.108	-.125	-.071	-.160	-.015	-.197	-.020	-.218	.016
53.50	8.7	- - -	-.039	- - -	-.089	- - -	-.059	- - -	-.037	- - -	-.012	- - -	.002	- - -	.025
	42.3	-.021	-.039	-.043	-.086	-.051	-.055	-.071	-.037	-.086	-.012	-.111	-.006	-.120	.019
	70.7	-.021	-.078	-.040	-.078	-.048	-.051	.050	-.037	-.099	-.012	-.100	-.009	-.105	.010
56.50	8.7	-.146	-.062	-.049	-.066	-.051	-.044	-.050	-.032	-.061	-.016	-.033	-.008	-.082	.011
	42.3	-.146	-.060	-.043	-.066	-.051	-.043	-.054	-.032	-.063	-.015	-.077	-.015	-.082	.003
	70.7	-.016	-.050	-.032	-.058	-.030	-.035	-.033	-.027	-.046	-.021	-.058	-.017	-.055	0
59.50	8.7	-.023	-.044	-.042	-.055	-.035	-.034	-.041	-.032	-.049	-.015	-.022	-.014	-.051	.002
	42.3	-.023	-.043	-.042	-.055	-.035	-.035	-.036	-.027	-.048	-.033	-.051	-.017	-.054	-.009
	70.7	-.027	-.047	-.042	-.055	-.035	-.047	-.035	-.036	-.044	-.034	-.041	-.029	-.052	-.022

(f) M,0.82.

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	8 Upper surface	8 Lower surface
10	8.7	0.089	0.018	0.064	0.021	0.044	0.036	0.025	0.047	0.003	0.070	0	0.113	-0.074	0.120
	42.3	.081	.021	.058	.021	.044	.036	.025	.047	.003	.059	0	.077	.024	.100
	70.7	.072	.018	.053	.021	.042	.031	.029	.042	.003	.047	0	.069	-.010	.059
15	8.7	.050	-.008	.029	-.013	.009	.003	-.008	.013	-.030	.031	-.030	.069	-.047	.073
	42.3	.045	-.010	.025	-.019	.009	-.002	-.003	.007	-.030	.014	-.030	.051	-.052	.045
	70.7	.032	-.010	.014	-.019	.009	-.002	-.008	.001	-.024	.003	-.010	.079	-.053	.017
20	8.7	.025	-.026	0	-.030	-.013	-.019	-.030	-.007	-.047	.003	-.041	.042	-.058	.048
	42.3	.018	-.026	-.004	-.033	-.013	-.019	-.030	-.013	-.047	-.008	-.041	.025	-.061	.025
	70.7	-.001	-.026	-.015	-.037	-.019	-.024	-.030	-.019	-.052	-.019	-.052	0	-.074	-.013
25	8.7	.012	-.032	-.011	-.041	-.024	-.030	-.035	-.022	-.052	-.011	-.041	.025	-.058	.011
	42.3	-.001	-.032	-.024	-.041	-.030	-.030	-.040	-.024	-.053	-.019	-.052	.004	-.062	.014
	70.7	.100	-.037	-.030	-.041	-.030	-.030	-.040	-.030	-.053	-.030	-.052	-.008	-.080	-.019
28.50	8.7	.012	-.026	-.013	-.035	-.024	-.027	-.015	-.019	-.052	-.004	-.041	.016	-.058	.019
	42.3	.007	-.026	-.019	-.041	-.027	-.027	-.015	-.019	-.052	-.011	-.046	.000	-.063	.014
	70.7	-.004	.037	-.024	-.041	-.027	-.030	-.015	-.030	-.058	-.030	-.052	-.008	-.074	-.019
31.50	8.7	.014	-.026	-.013	-.041	-.027	-.030	-.041	-.019	-.052	-.008	-.048	.016	-.063	.044
	42.3	.007	-.026	-.013	-.041	-.027	-.030	-.041	-.019	-.052	-.013	-.048	.025	-.067	.025
	70.7	-.003	-.026	-.024	-.037	-.030	-.027	-.041	-.019	-.055	-.019	-.057	.001	-.074	-.009
34.50	8.7	.039	-.032	.014	-.030	-.002	-.019	-.024	.003	-.052	.020	-.052	.069	-.069	.081
	42.3	.039	-.026	.011	-.030	-.008	-.019	-.024	-.002	-.052	.014	-.052	.069	-.074	.069
	70.7	.023	-.026	.003	-.030	-.008	-.013	-.024	-.002	-.047	.003	-.052	.036	-.074	.031
38.00	8.7	.056	-.081	.014	-.068	-.019	-.030	-.052	.003	-.108	.037	-.143	.102	-.191	.120
	42.3	.050	-.024	.014	-.063	-.024	-.024	-.063	.009	-.122	.048	-.165	.104	-.219	.120
	70.7	.089	-.089	.047	-.057	.009	-.008	-.030	.036	-.111	.075	-.184	.135	-.246	.147
41.50	8.7	.050	-.048	.003	-.123	-.046	-.068	-.096	-.019	-.174	.031	-.253	.107	-.340	.125
	42.3	.050	-.169	.003	-.140	-.052	-.074	-.107	-.024	-.191	.031	-.279	.102	-.379	.125
	70.7	.061	-.202	.003	-.156	-.057	-.083	-.013	-.024	-.224	.042	-.333	.124	-.443	.153
44.50	8.7	.012	-.191	-.041	-.152	-.090	-.101	-.140	-.052	-.224	.003	-.304	.069	-.418	.092
	42.3	.007	-.202	-.041	-.169	-.096	-.107	-.151	-.055	-.182	0	-.326	.069	-.448	.092
	70.7	.007	-.245	-.052	-.200	-.110	-.019	-.173	-.074	-.263	-.013	-.357	.052	-.484	.092
47.50	8.7	.001	-.180	-.041	-.157	-.075	-.107	-.134	-.063	-.200	-.019	-.349	.042	-.344	.059
	42.3	.014	-.185	-.008	-.167	-.041	-.118	-.079	-.074	-.137	0	-.184	.016	-.274	.053
	70.7	.021	-.218	-.074	-.184	-.118	-.129	-.169	-.085	-.241	-.041	-.304	.025	-.439	.048
50.50	8.7	-.015	-.103	-.055	-.096	-.085	-.063	-.118	-.041	-.163	-.011	-.184	.016	-.219	.048
	42.3	-.015	-.141	-.055	-.134	-.085	-.096	-.118	-.074	-.163	-.041	-.184	.014	-.239	.017
	70.7	-.026	-.147	-.068	-.140	-.088	-.107	-.129	-.085	-.174	-.052	-.195	0	-.233	.003
53.50	8.7	- - -	-.076	- - -	-.079	- - -	-.057	- - -	-.041	- - -	-.024	- - -	.014	- - -	.014
	42.3	-.004	-.076	-.033	-.079	-.052	-.057	-.068	-.041	-.096	-.030	-.101	.011	-.124	.011
	70.7	-.004	-.065	-.030	-.063	-.044	-.048	-.063	-.037	-.085	-.030	-.085	.009	-.108	.003
56.50	8.7	-.015	-.049	-.041	-.061	-.048	-.050	-.059	-.041	-.078	-.019	-.068	.001	-.085	0
	42.3	-.015	-.041	-.035	-.060	-.041	-.046	-.057	-.041	-.074	-.019	-.066	-.002	-.085	-.003
	70.7	.003	-.035	-.023	-.050	-.010	-.041	-.041	-.035	-.047	-.019	-.050	-.007	-.061	-.012
59.50	8.7	-.007	-.028	-.032	-.049	-.037	-.039	-.050	-.031	-.051	-.019	-.050	-.007	-.058	-.003
	42.3	-.007	-.028	-.030	-.047	-.039	-.040	-.045	-.037	-.046	-.025	-.044	-.009	-.058	-.014
	70.7	-.010	-.028	-.032	-.050	-.039	-.046	-.047	-.044	-.046	-.030	-.042	-.019	-.055	-.025

NACA

TABLE III.- CONTINUED

(g) M,0.84.

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	0.067	-0.007	0.060	0.017	0.049	0.049	0.028	0.060	0.006	0.082	-0.015	0.048
	42.3	.062	-.003	.060	.023	.049	.049	.028	.055	.012	.073	-.015	.042
	70.7	.046	-.007	.055	.023	.049	.044	.028	.049	.012	.055	-.015	.055
15	8.7	.024	-.034	.023	-.015	.014	.014	-.010	.023	-.023	.041	-.044	.055
	42.3	.021	-.039	.023	-.015	.014	.006	-.010	.012	-.023	.028	-.044	.036
	70.7	.008	-.036	.017	-.015	.014	.010	-.004	.009	-.031	.017	-.047	.014
20	8.7	-.003	-.052	-.004	-.033	-.010	-.010	-.026	-.004	-.042	.012	-.058	.028
	42.3	-.009	-.052	-.004	-.037	-.010	-.010	-.026	-.010	-.042	.006	-.058	.010
	70.7	-.030	-.057	-.015	-.037	-.015	-.015	-.031	-.015	-.045	-.015	-.069	-.015
25	8.7	-.014	-.061	-.015	-.044	-.018	-.020	-.037	-.018	-.047	-.004	-.058	.012
	42.3	-.030	-.061	-.026	-.042	-.026	-.020	-.042	-.018	-.047	-.010	-.069	-.002
	70.7	-.036	-.063	-.026	-.042	-.026	-.020	-.042	-.026	-.047	-.020	-.074	-.026
28.50	8.7	-.012	-.055	-.015	-.037	-.020	-.015	-.037	-.015	-.047	.006	-.058	.017
	42.3	-.020	-.055	-.020	-.037	-.020	-.015	-.037	-.015	-.047	-.004	-.064	.006
	70.7	-.034	-.063	-.026	-.044	-.020	-.023	-.037	-.026	-.047	-.020	-.069	-.026
31.50	8.7	-.009	-.057	-.015	-.037	-.020	-.015	-.037	-.015	-.047	.006	-.058	.023
	42.3	-.020	-.057	-.015	-.040	-.020	-.015	-.037	-.015	-.047	-.004	-.058	.006
	70.7	-.036	-.057	-.026	-.037	-.020	-.015	-.037	-.015	-.047	-.013	-.069	-.015
34.50	8.7	.013	-.057	.014	-.029	.006	-.004	-.024	.006	-.037	.031	-.058	.052
	42.3	.013	-.052	.006	-.026	.001	.001	-.024	.006	-.037	.023	-.058	.039
	70.7	.002	-.049	.006	-.024	.001	.006	-.024	.006	-.037	.017	-.058	.023
38.00	8.7	.035	-.109	.014	-.063	-.015	-.015	-.058	.017	-.101	.055	-.155	.085
	42.3	.029	-.109	.010	-.058	-.020	-.004	-.069	.023	-.112	.055	-.177	.093
	70.7	.067	-.117	.049	-.047	.014	.017	-.042	.049	-.104	.092	-.188	.125
41.50	8.7	.029	-.193	.001	-.122	-.047	-.047	-.112	-.008	-.179	.039	-.274	.087
	42.3	.035	-.198	-.001	-.133	-.053	-.055	-.119	-.010	-.198	.039	-.301	.093
	70.7	.040	-.236	-.001	-.155	-.063	-.063	-.139	-.004	-.230	.060	-.355	.111
44.50	8.7	-.009	-.242	-.047	-.165	-.096	-.089	-.160	-.045	-.241	.009	-.357	.055
	42.3	-.014	-.258	-.047	-.176	-.101	-.090	-.171	-.047	-.257	.009	-.376	.055
	70.7	-.020	-.296	-.058	-.208	-.115	-.112	-.192	-.066	-.284	-.004	-.411	.055
47.50	8.7	-.030	-.222	-.053	-.160	-.093	-.090	-.155	-.058	-.219	-.101	-.333	.028
	42.3	.008	-.236	-.015	-.176	-.047	-.101	-.096	-.066	-.152	-.015	-.263	.020
	70.7	-.052	-.269	-.079	-.198	-.122	-.119	-.192	-.079	-.260	-.026	-.407	.012
50.50	8.7	-.047	-.144	-.066	-.101	-.090	-.055	-.133	-.037	-.165	-.004	-.220	.017
	42.3	-.047	-.182	-.066	-.139	-.060	-.090	-.133	-.069	-.171	-.033	-.220	-.004
	70.7	-.063	-.190	-.079	-.149	-.101	-.101	-.144	-.079	-.179	-.047	-.231	-.020
53.50	8.7	- - -	-.106	- - -	-.079	- - -	-.047	- - -	-.037	- - -	-.015	- - -	-.004
	42.3	-.036	-.106	-.037	-.079	-.047	-.047	-.074	-.037	-.040	-.020	-.118	-.004
	70.7	-.036	-.095	-.037	-.069	-.037	-.042	-.063	-.037	-.079	-.020	-.101	-.004
56.50	8.7	-.041	-.033	-.037	-.116	-.042	-.042	-.058	-.025	-.069	-.026	-.083	-.004
	42.3	-.041	-.083	-.037	-.111	-.042	-.037	-.058	-.025	-.066	-.026	-.080	-.010
	70.7	-.048	-.082	-.080	-.107	-.027	-.033	-.034	-.025	-.047	-.026	-.053	-.014
59.50	8.7	-.052	-.072	-.086	-.097	-.035	-.030	-.035	-.022	-.048	-.024	-.047	-.008
	42.3	-.050	-.072	-.086	-.097	-.034	-.033	-.035	-.023	-.047	-.026	-.047	-.015
	70.7	-.056	-.072	-.088	-.097	-.034	-.035	-.035	-.029	-.047	-.037	-.047	-.026

(h) M,0.86.

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	0.055	0.014	0.048	0.043	0.030	0.053	0.017	0.081	0.006	0.115
	42.3	.076	.009	.055	.017	.048	.043	.035	.053	.017	.074	.006	.102
	70.7	.062	.009	.047	.014	.048	.043	.037	.044	.022	.058	.006	.074
15	8.7	.041	-.020	.014	-.018	.011	.011	.001	.022	.087	.043	-.015	.074
	42.3	.033	.022	.014	-.018	.011	.001	.001	.011	.087	.027	-.015	.053
	70.7	.023	.022	.008	-.018	.011	.003	.001	.011	-.015	.017	-.015	.032
20	8.7	.009	-.040	-.008	-.039	-.009	-.015	-.023	-.009	-.035	.011	-.038	.043
	42.3	.002	-.040	-.018	-.039	-.015	-.020	-.023	-.009	-.035	.001	-.041	.017
	70.7	-.012	-.050	-.026	-.044	-.020	-.025	-.027	-.020	-.041	-.015	-.046	.001
25	8.7	-.001	-.043	-.023	-.039	-.025	-.027	-.030	-.020	-.041	-.002	-.041	.025
	42.3	-.015	-.043	-.033	-.039	-.030	-.027	-.035	-.020	-.046	-.009	-.046	.011
	70.7	-.029	-.048	-.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	-.040	-.028	-.044	-.025	-.020	-.033	-.017	-.041	-.006	-.041	.022
	70.7	-.022	.048	-.033	-.049	-.025	-.030	-.033	-.027	-.041	-.020	-.048	-.009
31.50	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	-.025	-.025	-.033	-.020	-.041	-.009	-.046	.006
34.50	8.7	.031	-.040	.003	-.033	.001	-.009	-.012	.006	-.030	.032	-.035	.071
	42.3	.031	-.036	.003	-.028	-.004	-.009	-.015	-.004	-.030	.022	-.035	.058
	70.7	.013	-.033	-.007	-.028	-.004	-.004	-.015	.001	-.030	.017	-.035	.043
38.00	8.7	.052	-.091	.006	-.063	-.012	-.015	-.041	.011	-.087	.053	-.072	.105
	42.3	.046	-.091	.003	-.060	-.020	-.009	-.051	.017	-.098	.050	-.144	.110
	70.7	.043	-.093	.045	-.047	.014	.011	-.025	.043	-.074	.102	-.150	.147
41.50	8.7	.041	-.180	-.013	-.122	-.048	-.056	-.093	-.017	-.144	.043	-.248	.105
	42.3	.046	-.191	-.013	-.138	-.051	-.061	-.103	-.020	-.183	.043	-.290	.105
	70.7	.055	-.222	-.013	-.154	-.061	-.072	-.113	-.020	-.219	.053	-.321	.124
44.50	8.7	-.001	-.238	-.060	-.175	-.100	-.098	-.150	-.056	-.238	.006	-.337	.069
	42.3	-.001	-.251	-.065	-.185	-.106	-.103	-.155	-.061	-.243	.006	-.352	.069
	70.7	-.010	-.266	-.073	-.217	-.124	-.129	-.176	-.061	-.277	-.009	-.384	.063
47.50	8.7	-.019	-.243	-.070	-.160	-.103	-.108	-.150	-.072	-.235	.015	-.366	.043
	42.3	.017	-.248	-.073	-.194	-.096	-.119	-.093	-.081	-.165	-.025	-.286	.032
	70.7	-.043	-.258	-.100	-.217	-.137	-.139	-.106	-.096	-.296	-.035	-.405	.022
50.50	8.7	-.036	-.138	-.081	-.117	-.098	-.067	-.129	-.046	-.170	-.009	-.238	.032
	42.3	-.034	-.166	-.081	-.154	-.108	-.103	-.130	-.079	-.176	-.041	-.248	.006
	70.7	-.046	-.160	-.101	-.164	-.113	-.113	-.139	-.069	-.183	-.051	-.248	-.009
53.50	8.7	- - -	-.096	- - -	-.089	- - -	-.055	- - -	-.041	- - -	-.026	- - -	.014
	42.3	-.022	-.093	-.049	-.086	-.051	-.056	-.067	-.041	-.087	-.020	-.163	.011
	70.7	-.029	-.076	-.046	-.076	-.041	-.046	-.059	-.037	-.075	-.020	-.182	.006
56.50	8.7	-.025	-.042	-.049	-.061	-.046	-.021	-.059	-.003	-.067	-.042	-.064	-.039
	42.3	-.025	-.055	-.049	-.066	-.041	-.026	-.051	-.006	-.061	-.041	-.061	-.039
	70.7	-.010	-.050	-.029	-.057	-.042	-.020	-.041	-.009	-.027	-.037	-.039	-.028
59.50	8.7	-.011	-.041	-.039	-.048	-.042	-.018	-.047	-.006	-.032	-.031	-.042	-.039
	42.3	-.021	-.041	-.039	-.049	-.041	-.021	-.041	-.007	-.032	-.032	-.041	-.037
	70.7	-.016	-.042	-.039	-.049	-.041	-.030	-.039	-.026	-.032	-.041	-.041	-.046

NACA

TABLE III.- CONTINUED

(i) M,0.88.

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	0.090	0.021	0.074	0.028	0.041	0.031	0.020	0.046	0.014	0.081	-0.005	0.108
	42.3	.068	.021	.069	.028	.041	.031	.026	.046	.014	.078	-.005	.092
	70.7	.072	.021	.064	.028	.041	.029	.026	.036	.014	.060	-.005	.067
15	8.7	.047	-.009	.028	-.002	.002	-.005	-.015	.015	-.018	.042	-.036	.067
	42.3	.042	-.014	.028	-.012	.002	-.008	-.015	.002	-.015	.030	-.036	.041
	70.7	.032	-.014	.023	-.005	.002	-.008	-.010	.002	-.018	.019	-.036	.020
20	8.7	.021	-.030	.003	-.027	-.020	-.033	-.036	-.015	-.039	.014	-.049	.031
	42.3	.011	-.030	-.002	-.027	-.026	-.033	-.036	-.020	-.042	.004	-.053	.015
	70.7	-.004	-.035	-.012	-.033	-.033	-.036	-.036	-.031	-.042	-.011	-.061	-.015
25	8.7	.006	-.037	-.007	-.038	-.036	-.041	-.046	-.031	-.042	.030	-.051	.015
	42.3	-.006	-.037	-.021	-.038	-.041	-.041	-.051	-.031	-.052	-.011	-.061	.005
	70.7	-.014	-.040	-.022	-.038	-.041	-.041	-.051	-.036	-.052	-.021	-.061	-.020
28.50	8.7	.006	-.030	-.007	-.033	-.036	-.036	-.046	-.026	-.042	.002	-.046	.020
	42.3	-.004	-.030	-.012	-.033	-.036	-.036	-.046	-.026	-.042	-.004	-.051	.005
	70.7	-.012	-.040	-.022	-.038	-.036	-.041	-.046	-.036	-.047	-.021	-.056	-.015
31.50	8.7	.006	-.030	-.007	-.033	-.036	-.036	-.046	-.026	-.042	.004	-.046	.026
	42.3	.001	-.030	-.015	-.033	-.036	-.036	-.046	-.026	-.042	-.001	-.046	.015
	70.7	-.009	-.030	-.017	-.029	-.036	-.036	-.046	-.026	-.045	-.011	-.056	-.005
34.50	8.7	.039	-.030	.021	-.022	-.010	-.020	-.026	-.005	-.032	.035	-.036	.061
	42.3	.035	-.019	.008	-.017	-.010	-.015	-.026	-.005	-.032	.019	-.036	.046
	70.7	.021	-.019	.008	-.012	-.010	-.015	-.026	-.005	-.032	.019	-.036	.029
38.00	8.7	.062	-.073	.028	-.050	-.015	-.059	-.056	.005	-.083	.060	-.118	.097
	42.3	.057	-.073	.028	-.043	-.021	-.052	-.061	.015	-.096	.071	-.138	.165
	70.7	.052	-.073	.066	-.033	.005	0	-.036	.046	-.083	.101	-.143	.138
41.50	8.7	.092	-.169	.008	-.119	-.053	-.074	-.061	-.015	-.175	.050	-.251	.097
	42.3	.092	-.163	.008	-.131	-.056	-.084	-.123	-.020	-.190	.05[illegible]	-.275	.097
	70.7	.069	-.210	.008	-.149	-.064	-.087	-.136	-.020	-.221	.060	-.373	.118
44.50	8.7	.006	-.237	-.043	-.180	-.111	-.126	-.184	-.064	-.297	.009	-.343	.056
	42.3	.001	-.249	-.043	-.190	-.118	-.133	-.190	-.067	-.307	.009	-.359	.056
	70.7	-.002	-.265	-.056	-.215	-.133	-.154	-.213	-.067	-.292	-.001	-.389	.046
47.50	8.7	-.009	-.[illegible]	-.057	-.303	-.123	-.138	-.195	-.082	-.290	-.016	-.389	.020
	42.3	.001	-.285	-.017	-.215	-.072	-.154	-.133	-.092	-.216	-.041	-.297	.015
	70.7	-.040	-.331	-.063	-.243	-.156	-.174	-.241	-.106	-.241	-.037	-.446	.005
50.50	8.7	-.033	-.162	-.062	-.171	-.118	-.097	-.160	-.067	-.223	-.011	-.420	.015
	42.3	-.035	-.203	-.073	-.152	-.121	-.128	-.166	-.091	-.231	-.042	-.435	.026
	70.7	-.050	-.205	-.073	-.171	-.131	-.138	-.174	-.058	-.236	-.052	-.456	-.033
53.50	8.7	- - -	-.091	- - -	-.078	- - -	-.072	- - -	-.053	- - -	-.021	- - -	-.005
	42.3	-.014	-.076	-.033	-.073	-.067	-.070	-.067	-.053	-.093	-.021	-.103	-.015
	70.7	-.017	-.070	-.033	-.063	-.056	-.061	-.072	-.046	-.063	-.021	-.108	-.015
56.50	8.7	-.022	-.049	-.036	-.033	-.059	-.053	-.170	-.053	-.067	-.013	-.074	-.022
	42.3	-.019	-.048	-.033	-.032	-.056	-.049	-.067	-.053	-.067	-.013	-.072	-.029
	70.7	-.034	-.039	-.033	-.029	-.063	-.038	-.016	-.043	-.035	-.013	-.049	-.066
59.50	8.7	-.039	-.03[illegible]	-.040	-.022	-.013	-.031	-.029	-.042	-.040	-.011	-.037	0
	42.3	-.038	-.03[illegible]	-.038	-.022	-.013	-.034	-.029	-.042	-.034	-.013	-.037	-.006
	70.7	-.032	-.046	-.037	-.031	-.014	-.034	-.031	-.043	-.033	-.013	-.035	-.016

(j) M,0.90.

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	0.097	0.027	0.060	0.025	0.056	0.051	0.041	0.066	0.024	0.093	0.024	0.137
	42.3	.092	.017	.06[illegible]	.025	.056	.051	.041	.066	.029	.065	.024	.122
	70.7	.077	.024	.055	.025	.056	.046	.046	.059	.029	.060	.024	.092
15	8.7	.057	-.008	.025	-.010	.017	.017	.007	.034	-.011	.054	-.006	.090
	42.3	.047	-.013	.018	-.015	.017	.007	.004	.022	-.011	.039	-.006	.073
	70.7	.037	-.013	.015	-.015	.017	.010	.007	.017	-.011	.029	-.006	.053
20	8.7	.004	-.028	-.010	-.035	-.010	-.013	-.020	.007	-.031	.019	-.019	.063
	42.3	.017	-.028	-.013	-.035	-.013	-.013	-.020	-.003	-.031	.009	-.026	.043
	70.7	0	-.033	-.022	-.035	-.013	-.016	-.023	-.003	-.036	-.002	-.028	.019
25	8.7	.007	-.033	-.020	-.045	-.020	-.023	-.030	-.013	-.036	.004	-.021	.043
	42.3	-.003	-.033	-.030	-.045	-.020	-.023	-.033	-.013	-.041	-.001	-.026	.036
	70.7	-.013	-.038	-.033	-.045	-.020	-.023	-.033	-.016	-.041	-.010	-.030	.009
28.50	8.7	.007	-.03[illegible]	-.022	-.035	-.023	-.018	-.028	-.003	-.014	.009	-.016	.053
	42.3	.002	-.038	-.025	-.038	-.023	-.018	-.033	-.008	-.016	.006	-.001	.040
	70.7	-.008	-.036	-.031	-.045	-.023	-.023	-.033	-.018	-.018	-.011	-.026	.014
31.50	8.7	.007	-.023	-.020	-.035	-.023	-.018	-.028	-.003	-.031	.009	-.009	.056
	42.3	.007	-.023	-.025	-.035	-.023	-.018	-.028	-.018	-.031	.004	-.011	.043
	70.7	-.008	-.026	-.030	-.035	-.023	-.018	-.028	-.010	-.036	-.001	-.021	.024
34.50	8.7	.047	-.016	.010	-.022	.007	.002	-.003	-.017	-.01	.034	.004	.092
	42.3	.037	-.013	.005	-.020	.007	.002	-.003	-.017	-.012	.039	.004	.076
	70.7	.027	-.008	.005	-.015	.004	.007	-.003	-.017	-.012	.029	.001	.060
38.00	8.7	.067	-.063	.020	-.045	-.002	-.003	-.033	.037	-.065	.068	-.175	.132
	42.3	.064	-.063	.015	-.035	-.006	-.007	-.038	.041	-.075	.078	-.094	.135
	70.7	-.107	-.063	.055	-.025	.027	-.007	-.013	.066	-.065	.068	-.101	.171
41.50	8.7	-.053	-.160	-.005	-.115	-.042	-.049	-.097	.007	-.160	.059	-.207	.125
	42.3	-.053	-.17[illegible]	-.005	-.125	-.049	-.057	-.107	0	-.170	.059	-.232	.132
	70.7	-.067	-.197	-.005	-.140	-.055	-.060	-.121	.007	-.199	.063	-.286	.151
44.50	8.7	.007	-.232	-.005	-.180	-.115	-.109	-.171	-.043	-.239	.019	-.301	.083
	42.3	.004	-.247	-.005	-.188	-.115	-.112	-.181	-.047	-.252	.019	-.315	.083
	70.7	-.003	-.277	-.075	-.215	-.131	-.131	-.200	-.063	-.279	.002	-.345	.073
47.50	8.7	-.018	-.292	-.085	-.232	-.131	-.136	-.210	-.072	-.289	-.011	-.249	.043
	42.3	.122	-.292	-.035	-.245	-.077	-.160	-.141	-.085	-.209	-.021	-.251	.040
	70.7	-.043	-.332	-.115	-.270	-.171	-.168	-.250	-.087	-.338	-.036	-.299	.024
50.50	8.7	-.043	-.279	-.195	-.170	-.121	-.092	-.200	-.047	-.333	-.011	-.418	.033
	42.3	-.043	-.332	-.195	-.215	-.131	-.128	-.210	-.085	-.348	-.041	-.433	.004
	70.7	-.058	-.352	-.108	-.235	-.141	-.141	-.220	-.092	-.309	-.056	-.466	-.016
53.50	8.7	- - -	-.093	- - -	-.090	- - -	-.057	- - -	-.033	- - -	-.016	- - -	.014
	42.3	-.018	-.093	-.552	-.085	-.055	-.057	-.072	-.033	-.093	-.021	-.173	.004
	70.7	-.018	-.078	-.045	-.075	-.047	-.042	-.057	-.033	-.080	-.021	-.141	-.006
56.50	8.7	-.023	-.041	-.045	-.060	-.042	-.041	-.052	-.022	-.061	-.010	-.040	-.001
	42.3	-.018	-.039	-.045	-.056	-.042	-.040	-.047	-.020	-.051	-.010	-.035	0
	70.7	.002	-.030	-.028	-.047	-.021	-.032	-.025	-.020	-.022	-.007	-.030	-.002
59.50	8.7	-.003	-.020	-.023	-.030	-.031	-.021	-.035	-.020	-.030	-.012	-.022	.002
	42.3	-.005	-.020	-.023	-.047	-.031	-.031	-.030	-.020	-.022	-.005	-.019	.001
	70.7	-.009	-.020	-.032	-.049	-.031	-.008	-.030	-.030	-.022	-.020	-.017	-.010

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	0.066	0.053	0.082	0.033	0.109	0.029	0.135
	42.3	.100	.053	.070	.032	.068	.066	.054	.082	.037	.100	.030	.125
	70.7	.101	.048	.062	.031	.068	.057	.054	.073	.037	.080	.030	.096
15	8.7	.071	.019	.029	-.006	.028	.026	.015	.044	.003	.067	0	.091
	42.3	.067	.014	.033	-.008	.028	.017	.015	.034	.003	.051	-.003	.073
	70.7	.056	.016	.021	-.006	.028	.022	.018	.032	.003	.042	-.003	.050
20	8.7	.042	-.002	-.003	-.027	-.001	-.002	-.010	.015	-.019	.032	-.019	.050
	42.3	.034	-.002	-.008	-.027	-.001	-.004	-.012	.007	-.019	.022	-.020	.041
	70.7	.019	-.007	-.017	-.035	-.010	-.010	-.015	.002	-.026	.005	-.028	.019
25	8.7	.027	-.010	-.017	-.037	-.012	-.014	-.017	-.003	-.026	.016	-.019	.038
	42.3	.017	-.007	-.025	-.037	-.016	-.014	-.024	-.003	-.029	.013	-.020	.029
	70.7	.008	-.012	-.027	-.037	-.016	-.014	-.023	-.009	-.029	-.001	-.029	.010
28.50	8.7	.027	-.002	-.017	-.030	-.012	-.010	-.008	.005	-.019	.022	-.013	.048
	42.3	.022	-.003	-.019	-.030	-.014	-.010	-.008	.002	-.025	.016	-.018	.029
	70.7	.013	-.011	-.026	-.037	-.014	-.016	-.022	-.009	-.026	-.001	-.025	.010
31.50	8.7	.029	.014	-.016	-.017	-.011	-.007	-.015	.005	-.016	.024	-.004	.049
	42.3	.027	0	-.018	-.027	-.011	-.011	-.015	.004	-.016	.018	-.009	.039
	70.7	.016	0	-.025	-.027	-.014	-.010	-.015	.001	-.023	.008	-.017	.021
34.50	8.7	.066	.015	.021	-.009	.019	.017	.015	.031	.004	.052	.010	.087
	42.3	.057	.018	.017	-.008	.017	.017	.008	.028	.004	.049	.011	.077
	70.7	.048	.019	.012	-.007	.017	.017	.008	.026	.004	.042	.010	.058
38.00	8.7	.084	-.021	.031	-.029	.014	.016	-.014	.045	-.045	.087	-.058	.127
	42.3	.074	-.021	.033	-.022	.013	.026	-.017	.053	-.055	.092	-.071	.135
	70.7	.124	-.019	.070	-.009	.046	.046	.006	.082	-.045	.128	-.073	.169
41.50	8.7	.071	-.117	.004	-.103	-.029	-.034	-.076	.015	-.140	.073	-.183	.125
	42.3	.075	-.126	.004	-.115	-.031	-.041	-.082	.014	-.152	.074	-.205	.125
	70.7	.060	-.149	.004	-.126	-.041	-.042	-.102	.016	-.184	.068	-.245	.145
44.50	8.7	.016	-.069	-.057	-.173	-.098	-.098	-.153	-.042	-.223	.026	-.277	.077
	42.3	.013	-.068	-.059	-.181	-.100	-.101	-.162	-.043	-.234	.026	-.290	.077
	70.7	.008	-.135	-.074	-.203	-.119	-.125	-.179	-.058	-.258	.012	-.318	.068
47.50	8.7	-.012	-.243	-.091	-.232	-.234	-.147	-.200	-.073	-.273	-.014	-.327	.033
	42.3	.029	-.244	-.097	-.241	-.079	-.156	-.063	-.082	-.193	-.019	-.240	.025
	70.7	-.041	-.254	-.125	-.263	-.170	-.176	-.241	-.099	-.321	-.036	-.376	.010
50.50	8.7	-.041	-.265	-.110	-.249	-.166	-.118	-.256	-.050	-.346	-.016	-.395	.011
	42.3	-.051	-.321	-.115	-.301	-.176	-.167	-.266	-.091	-.356	-.048	-.413	-.022
	70.7	-.050	-.340	-.132	-.329	-.190	-.195	-.285	-.103	-.385	-.069	-.437	-.041
53.50	8.7	- - -	-.129	- - -	-.115	- - -	-.050	- - -	-.033	- - -	-.022	- - -	.013
	42.3	-.012	-.121	-.046	-.110	-.048	-.050	-.073	-.031	-.191	-.026	-.059	-.020
	70.7	-.012	-.099	-.046	-.089	-.039	-.041	-.059	-.026	-.149	-.031	-.270	-.039
56.50	8.7	-.007	-.029	-.045	-.043	-.033	-.021	-.042	-.012	-.046	-.004	-.050	-.013
	42.3	.004	-.025	-.037	-.038	-.029	-.021	-.033	-.007	-.044	-.004	-.050	-.014
	70.7	.005	-.019	-.016	-.033	-.006	-.016	-.007	-.002	-.014	-.004	.001	-.023
59.50	8.7	0	-.019	-.023	-.004	-.016	.008	-.012	.008	-.010	.006	-.004	.007
	42.3	0	-.010	-.023	-.012	-.014	-.012	-.012	-.002	-.008	-.001	-.004	-.004
	70.7	-.005	-.010	-.023	-.033	-.014	-.021	-.010	-.010	-.006	-.012	-.005	-.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	0.132	0.075	0.093	0.058	0.093	0.089	0.090	0.118	0.049	0.116	0.057	0.168
	42.3	.115	.077	.093	.061	.095	.091	.092	.116	.048	.108	.048	.157
	70.7	.113	.074	.092	.058	.094	.077	.092	.105	.040	.088	.055	.127
15	8.7	.107	.050	.054	.032	.055	.053	.053	.075	.012	.070	.027	.123
	42.3	.101	.048	.047	.018	.054	.046	.053	.067	.010	.058	.024	.102
	70.7	.092	.050	.046	.019	.052	.047	.055	.067	.012	.050	.021	.083
20	8.7	.078	.030	.019	-.004	.014	.022	.027	.045	-.012	.039	.008	.090
	42.3	.068	.031	.017	-.005	.020	.019	.029	.042	-.015	.028	.008	.072
	70.7	.073	.022	.002	-.009	.018	.018	.021	.036	-.017	.012	-.001	.046
25	8.7	.050	.022	.006	-.018	.015	.008	.018	.028	-.016	.022	.009	.067
	42.3	.048	.020	-.003	-.016	.005	.009	.008	.028	-.025	.014	0	.056
	70.7	.040	.021	-.003	-.019	.007	.008	.009	.025	-.026	.003	-.004	.035
28.50	8.7	.059	.031	.004	-.008	.012	.018	.018	.036	-.015	.024	.017	.067
	42.3	.051	.028	-.001	-.009	.008	.017	.017	.014	-.016	.020	.010	.065
	70.7	.041	.022	-.002	-.015	.008	.008	.013	.027	-.022	.003	.005	.037
31.50	8.7	.061	.037	.008	-.002	.017	.018	.019	.037	-.007	.030	.027	.082
	42.3	.057	.035	.005	-.002	.017	.018	.020	.031	-.007	.022	.022	.066
	70.7	.049	.032	-.001	-.002	.021	.018	.018	.031	-.015	.012	.014	.048
34.50	8.7	.101	.052	.046	.019	.047	.045	.052	.111	.016	.061	.047	.114
	42.3	.074	.057	.040	.020	.045	.046	.047	.111	.018	.060	.047	.104
	70.7	.063	.059	.036	.025	.046	.047	.047	.110	.018	.050	.046	.080
38.00	8.7	.125	.021	.057	.006	.048	.047	.014	.084	-.025	.098	.082	.161
	42.3	.120	.022	.056	.014	.044	.057	.027	.093	-.034	.107	-.029	.169
	70.7	.143	.022	.094	.025	.061	.063	.055	.119	-.020	.137	-.033	.205
41.50	8.7	.113	-.072	.076	-.066	.004	-.001	-.029	.055	-.118	.080	-.144	.158
	42.3	.113	-.072	.076	-.076	-.001	-.008	-.037	.049	-.129	.070	-.168	.159
	70.7	.118	-.110	.079	-.091	-.008	-.010	-.049	.055	-.177	.090	-.207	.178
44.50	8.7	.050	-.147	-.018	-.133	-.070	-.067	-.103	-.006	-.199	.027	-.196	.105
	42.3	.068	-.155	-.041	-.142	-.076	-.067	-.112	-.008	-.219	.017	-.215	.105
	70.7	.010	-.185	-.051	-.164	-.089	-.090	-.130	-.014	-.232	.012	-.281	.095
47.50	8.7	.013	-.206	-.078	-.193	-.115	-.103	-.151	-.056	-.250	-.020	-.291	.044
	42.3	.055	-.212	-.028	-.203	-.055	-.132	-.065	-.066	-.175	-.014	-.209	.046
	70.7	-.015	-.245	-.114	-.217	-.151	-.151	-.191	-.063	-.298	-.045	-.342	.029
50.50	8.7	-.035	-.227	-.143	-.211	-.139	-.149	-.206	-.075	-.317	-.043	-.357	.020
	42.3	-.019	-.236	-.159	-.225	-.158	-.158	-.233	-.122	-.337	-.082	-.375	-.012
	70.7	-.057	-.306	-.178	-.302	-.217	-.226	-.255	-.149	-.360	-.102	-.403	-.038
53.50	8.7	- - -	-.235	- - -	-.247	- - -	-.112	- - -	-.038	- - -	-.047	- - -	-.019
	42.3	-.007	-.200	-.070	-.237	-.106	-.104	-.177	-.038	-.319	-.054	-.398	-.019
	70.7	-.011	-.172	-.067	-.187	-.085	-.076	-.125	-.032	-.357	-.063	-.339	-.048
56.50	8.7	.008	-.007	-.033	-.030	-.009	-.004	-.009	-.009	-.022	-.044	-.170	-.033
	42.3	.011	-.007	-.029	-.019	-.001	-.002	-.003	-.004	-.080	-.044	-.164	-.038
	70.7	.020	-.007	-.012	-.029	.011	.005	.003	0	-.071	-.045	-.041	-.052
59.50	8.7	.024	.063	-.011	.017	.005	.033	.008	.033	-.015	-.007	-.014	.006
	42.3	.024	.031	-.011	-.010	.009	.007	.009	.007	-.019	-.026	-.019	-.014
	70.7	.022	.031	-.011	-.011	.008	.005	.007	.005	-.021	-.033	-.021	-.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	0.028	0.052	0.010	0.068	0.001	0.016
	42.3	.068	.003	.058	.016	.039	.034	.029	.048	.010	.061	-.003	.080
	70.7	.061	.003	.045	.016	.034	.032	.029	.039	.010	.042	-.003	.058
15	8.7	.042	-.023	.029	-.006	.010	.006	.003	.019	-.023	.035	-.019	.074
	42.3	.035	-.023	.029	-.013	.010	.003	.003	.010	-.019	.019	-.019	.048
	70.7	.026	-.023	.019	-.010	.006	.003	0	.006	-.019	.006	-.022	.026
20	8.7	.023	-.003	.006	-.029	-.003	-.013	-.026	.003	-.029	.016	-.022	.045
	42.3	.016	-.003	.006	-.029	-.006	-.019	-.023	.003	-.029	.006	-.022	.035
	70.7	.003	-.003	-.003	-.029	-.013	-.023	-.026	-.003	-.029	.010	-.038	.010
25	8.7	.019	-.003	.003	-.029	-.019	-.023	-.029	-.003	-.035	.006	-.038	.042
	42.3	.006	-.003	0	-.029	-.019	-.026	-.029	-.019	-.035	.003	-.038	.019
	70.7	0	-.003	-.016	-.029	-.023	-.003	-.029	-.023	-.035	-.023	-.054	0
28.50	8.7	.019	-.035	.003	-.029	-.013	-.016	-.029	.003	-.035	.019	-.051	.048
	42.3	.006	-.035	-.003	-.029	-.019	-.019	-.026	.003	-.035	.003	-.051	.042
	70.7	.003	-.042	-.006	-.029	-.016	-.026	-.029	-.010	-.035	-.003	-.054	.010
31.50	8.7	.029	.061	.003	-.042	-.023	-.026	-.035	.003	-.055	.019	-.063	.051
	42.3	.013	.061	.003	-.035	-.023	-.029	-.032	-.003	-.055	.006	-.071	.042
	70.7	.010	-.045	.006	-.029	-.006	-.013	-.029	.006	-.055	.010	-.080	.042
34.50	8.7	.039	-.069	.019	-.058	-.010	-.026	-.032	.003	-.039	.029	-.083	.074
	42.3	.035	-.068	.013	-.055	-.013	-.026	-.039	.003	-.068	.019	-.099	.067
	70.7	.042	-.084	.010	-.055	-.013	-.019	-.052	.019	-.090	.039	-.135	.077
38.00	8.7	.029	-.068	-.003	-.074	-.032	-.035	-.068	-.003	-.094	.019	-.119	.074
	42.3	.019	-.068	-.019	-.084	-.042	-.035	-.087	-.010	-.110	.019	-.112	.074
	70.7	.035	-.119	.003	-.090	-.045	-.035	-.090	.003	-.126	.035	-.179	.090
41.50	8.7	.010	-.068	-.013	-.077	-.039	-.042	-.077	-.023	-.094	.006	-.119	.048
	42.3	.035	-.110	-.023	-.093	-.045	-.055	-.084	-.026	-.110	.003	-.144	.048
	70.7	.035	-.126	-.029	-.096	-.061	-.061	-.100	.029	-.126	.003	-.173	.048
44.50	8.7	.003	-.034	-.029	-.077	-.052	-.045	-.077	-.026	-.094	.003	-.119	.010
	42.3	-.003	-.094	-.029	-.087	-.052	-.052	-.077	-.026	-.094	.003	-.119	.010
	70.7	-.003	-.126	-.035	-.122	-.061	-.087	-.094	-.055	.203	-.023	-.151	-.013
47.50	8.7	.010	-.077	-.023	-.061	-.032	-.055	-.058	-.029	-.077	.003	-.087	.035
	42.3	.019	-.087	.006	-.061	-.013	-.042	-.029	-.026	-.035	-.003	-.094	.035
	70.7	-.003	-.087	-.003	-.061	-.055	-.042	-.042	-.026	-.087	-.006	-.099	.035
50.50	8.7	-.003	-.032	-.029	-.029	-.035	-.029	-.055	0	-.061	.006	-.077	.035
	42.3	-.003	-.061	-.023	-.061	-.032	-.032	-.052	-.029	-.061	-.023	-.077	.013
	70.7	-.013	-.058	-.023	-.051	-.032	-.032	-.045	-.029	-.061	-.023	-.067	.010
53.50	8.7	---	-.055	---	-.039	---	-.029	---	-.026	---	-.019	---	.010
	42.3	-.013	-.055	-.023	-.035	-.029	-.029	-.035	-.026	-.052	-.023	-.051	.010
	70.7	-.013	-.039	-.023	-.029	-.029	-.029	-.029	-.026	-.045	-.023	-.048	.003
56.50	8.7	-.023	-.029	-.029	-.032	-.029	-.029	-.035	-.029	-.045	-.010	-.045	-.003
	42.3	-.019	-.026	-.023	-.026	-.029	-.026	-.035	-.019	-.035	-.010	-.045	-.003
	70.7	-.013	-.026	-.006	-.030	-.019	-.026	-.026	-.026	-.013	-.023	-.026	-.010
59.50	8.7	-.010	-.019	-.013	-.019	-.013	-.019	-.013	-.026	-.016	-.003	-.023	.003
	42.3	-.010	-.019	-.006	-.016	-.013	-.019	-.013	-.026	-.016	-.003	-.023	.003
	70.7	-.019	-.026	-.019	-.023	-.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	-0.023	0.135	-0.029	0.155	-0.035	0.177	-0.052	-0.203	-0.058	0.235	-0.026	0.268
	42.3	-.026	.100	-.029	.129	-.055	.135	-.068	-.139	-.087	.165	-.097	.171
	70.7	-.026	.064	-.058	.058	-.087	.064	-.113	-.039	-.126	.035	-.126	.023
15	8.7	.293	.087	-.045	.116	-.155	.141	-.061	.165	-.061	.197	-.061	.229
	42.3	.289	.071	-.061	.074	-.064	.100	-.094	.106	-.074	.132	-.139	.135
	70.7	.267	.029	-.045	.013	-.090	.013	-.126	.010	-.132	.003	-.126	0
20	8.7	.270	.071	-.061	.100	-.058	.116	-.061	.132	-.065	.168	-.065	.200
	42.3	-.058	.039	-.069	.058	-.090	.071	-.103	.077	-.126	.100	-.158	.119
	70.7	-.071	.005	-.094	.003	-.119	-.010	-.126	-.026	-.148	.003	-.158	-.029
25	8.7	-.098	.061	-.035	.084	-.071	.129	-.090	.132	-.094	.165	-.100	.197
	42.3	-.071	.039	-.090	.042	-.103	.071	-.139	.068	-.158	.100	-.190	.100
	70.7	-.084	-.010	-.106	-.023	-.122	-.023	-.119	-.029	-.158	-.029	-.187	-.032
28.50	8.7	-.068	.071	-.094	.100	-.093	.135	-.123	.145	-.126	.197	-.158	.229
	42.3	-.087	.039	-.106	.068	-.129	.077	-.181	.100	-.197	.081	-.229	.132
	70.7	-.090	.003	-.126	.003	-.154	-.003	-.184	-.026	-.190	-.029	-.223	-.029
31.50	8.7	.232	.071	-.126	.116	-.154	.135	-.190	.187	-.210	.203	-.252	.235
	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	.023
34.50	8.7	-.122	.103	-.126	.132	-.186	.167	-.248	.197	-.281	.229	.319	.277
	42.3	-.125	.087	-.219	.129	-.238	.151	-.348	.165	-.387	.197	-.448	.232
	70.7	-.200	.103	-.287	.132	-.026	.138	-.416	.148	-.481	.168	-.598	.190
38.00	8.7	-.180	.103	.103	.135	-.251	.183	-.287	.226	-.335	.258	-.345	.294
	42.3	-.215	.103	-.252	.135	-.026	.170	-.442	.200	-.506	.239	-.577	.268
	70.7	-.251	.135	-.326	.165	-.087	.203	-.448	.229	-.545	.268	-.626	.294
41.50	8.7	-.164	.080	-.197	.132	-.232	.167	.068	.197	-.289	.229	-.316	.258
	42.3	-.196	.074	-.258	.132	-.318	.151	-.413	.194	-.481	.213	-.574	.242
	70.7	-.225	.087	-.300	.132	-.026	.167	-.413	.197	-.465	.232	-.542	.261
44.50	8.7	-.154	.071	-.187	.100	-.190	.103	-.223	.158	-.239	.184	-.255	.206
	42.3	-.177	.064	-.226	.100	-.283	.103	-.332	.142	-.448	.171	-.548	.197
	70.7	-.186	.039	-.252	.074	-.283	.122	-.319	.132	-.352	.165	-.445	.187
47.50	8.7	-.109	.048	-.126	.077	-.119	.103	-.165	.132	-.158	.145	-.184	.165
	42.3	-.122	.042	-.119	.071	-.154	.103	-.206	.119	-.277	.132	-.332	.142
	70.7	-.138	.039	-.174	.068	-.186	.087	-.223	.100	-.277	.126	-.348	.165
50.50	8.7	-.090	.039	-.110	.068	-.122	.077	-.126	.100	-.135	.103	-.139	.132
	42.3	-.090	.019	-.126	.042	-.145	.068	-.145	.068	-.223	.077	-.284	.100
	70.7	-.090	.010	-.116	.035	-.122	.042	-.158	.042	-.190	.058	-.252	.068
53.50	8.7	---	.016	---	.035	---	.045	---	.068	---	.068	---	.087
	42.3	-.071	.010	-.094	.026	-.090	.039	-.100	.039	-.126	.058	-.171	.068
	70.7	-.058	.006	-.074	.013	-.090	.029	-.100	.029	-.123	.029	-.168	.029
56.50	8.7	-.058	.003	-.061	.033	-.064	.039	-.071	.045	-.077	.064	-.087	.068
	42.3	-.058	-.007	-.065	.033	-.064	.032	-.071	.029	-.077	.039	-.090	.061
	70.7	-.042	-.013	-.033	.013	-.048	.023	-.058	.013	-.048	.016	-.061	.019
59.50	8.7	-.039	.010	-.026	.033	-.032	.032	-.038	.029	-.035	.058	-.039	.068
	42.3	-.039	-.007	-.029	.033	-.032	.032	-.038	.029	-.035	.032	-.039	.032
	70.7	-.039	-.039	-.033	-.026	-.032	-.026	-.038	-.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
10	8.7	0.085	0.015	0.068	0.022	0.049	0.040	0.030	0.059	0.017	-0.010	0	0.110	-0.004	0.104	-0.019	0.120
	42.3	.082	.021	.064	.025	.053	.042	.031	.060	.019	-.010	0	.096	-.002	.090	-.018	.100
	70.7	.068	.013	.059	.025	.050	.040	.031	.050	.022	-.009	.002	.072	-.002	.069	-.027	.062
15	8.7	.060	-.007	.038	.004	.025	.016	.019	.033	.082	.050	-.019	.079	-.029	.071	-.040	.083
	42.3	.050	-.013	.032	-.002	.028	.012	.010	.025	.079	.041	-.019	.061	-.025	.055	-.047	.060
	70.7	.039	-.002	.024	.006	.020	.011	.012	.023	.061	.030	-.017	.041	-.031	.030	-.055	.023
20	8.7	.032	-.027	.060	.030	-.005	-.017	-.010	.007	-.027	.018	-.018	.072	-.020	.069	-.022	.090
	42.3	.025	-.022	.065	.029	-.005	-.017	-.010	.008	-.029	.010	-.010	.059	-.020	.059	-.026	.071
	70.7	.028	-.021	.054	.030	-.012	-.015	-.015	0	-.031	-.020	-.020	.032	-.021	.032	-.039	.033
25	8.7	.025	-.027	.054	.021	-.010	-.019	-.020	0	-.040	.010	-.020	.068	-.022	.064	-.022	.087
	42.3	.015	-.028	.042	.022	-.016	-.020	-.021	0	-.040	0	-.021	.051	-.021	.050	-.035	.070
	70.7	.022	-.029	.032	.022	-.015	-.021	-.021	-.010	-.040	-.010	-.020	.031	-.030	.032	-.046	.032
28.50	8.7	.015	-.045	0	-.029	-.020	-.020	-.001	.030	-.038	.030	-.045	.060	-.031	.105	-.046	.129
	42.3	.001	-.046	-.005	-.019	-.024	-.024	0	.031	-.037	.028	-.048	-.048	-.040	.080	-.054	.100
	70.7	-.009	-.046	-.009	-.026	-.009	-.009	0	.027	-.027	.014	-.048	.020	-.042	.050	-.080	.039
31.50	8.7	.017	-.057	.003	-.035	-.020	-.020	0	.032	-.041	.040	-.062	.069	-.060	.120	-.090	.148
	42.3	.010	-.059	.003	-.033	-.019	-.019	0	.032	-.040	.032	-.061	.068	-.060	.105	-.110	.121
	70.7	.006	-.059	.006	-.024	-.008	-.008	.010	.050	-.037	.033	-.065	.052	-.075	.080	-.125	.076
34.50	8.7	.046	-.072	.020	-.046	.005	-.011	-.047	-.002	-.060	.039	-.097	.088	-.130	.110	-.175	.152
	42.3	.049	-.072	.019	-.047	0	-.006	-.057	-.002	-.062	.050	-.102	.089	-.157	.101	-.220	.137
	70.7	.059	-.081	.031	-.043	.010	.004	-.057	.012	-.079	.063	-.141	.100	-.206	.118	-.290	.150
38.00	8.7	.028	-.102	-.006	-.075	-.027	-.034	-.081	-.028	-.099	.025	-.138	.073	-.190	.102	-.246	.151
	42.3	.018	-.112	-.015	-.075	-.039	-.031	-.100	-.019	-.117	.026	-.167	.075	-.220	.104	-.300	.155
	70.7	.036	-.130	0	-.080	-.020	-.031	-.100	-.011	-.130	.050	-.193	.108	-.259	.133	-.345	.180
41.50	8.7	.015	-.110	-.022	-.090	-.052	-.063	-.083	-.028	-.115	.009	-.150	.055	-.181	.090	-.210	.157
	42.3	.012	-.120	-.029	-.100	-.061	-.072	-.095	-.033	-.129	.010	-.169	.050	-.209	.082	-.261	.148
	70.7	.006	-.140	-.039	-.116	-.070	-.080	-.111	-.032	-.150	.009	-.197	.058	-.240	.070	-.300	.154
44.50	8.7	.009	-.096	-.039	-.080	-.051	-.051	-.080	-.022	-.109	.010	-.138	.042	-.168	.070	-.187	.128
	42.3	0	-.101	-.037	-.090	-.060	-.060	-.089	-.030	-.119	.010	-.146	.040	-.180	.065	-.203	.121
	70.7	-.009	-.125	-.046	-.108	-.070	-.077	-.100	-.046	-.135	-.011	-.161	.025	-.199	.054	-.241	.105
47.50	8.7	.010	-.070	-.019	-.060	-.028	-.031	-.047	-.010	-.070	.010	-.108	.028	-.135	.048	-.140	.089
	42.3	.030	-.071	.009	-.062	0	-.035	-.003	-.009	-.041	.009	-.070	.021	-.10	.035	-.115	.079
	70.7	-.001	-.080	-.030	-.070	-.035	-.035	-.048	-.010	-.082	.002	-.117	.021	-.150	.030	-.166	.071
50.50	8.7	0	-.040	-.030	-.040	-.030	-.008	-.040	.012	-.060	.021	-.080	.040	-.100	.048	-.100	.080
	42.3	0	-.055	-.021	-.050	-.030	-.022	-.029	-.005	-.058	.002	-.072	.015	-.100	.021	-.112	.060
	70.7	-.008	-.050	-.020	-.049	-.020	-.028	-.029	-.005	-.046	.004	-.068	.016	-.098	.016	-.090	.045
53.50	8.7	- - -	-.045	- - -	-.039	- - -	-.025	- - -	-.014	- - -	0	- - -	.021	- - -	.037	- - -	.062
	42.3	-.008	-.039	-.021	-.039	-.021	-.021	-.032	-.015	-.045	0	-.050	.015	-.056	.030	-.067	.052
	70.7	0	-.035	0	-.034	-.018	-.018	-.025	-.010	-.026	0	-.029	.016	-.041	.022	-.050	.040
56.50	8.7	-.009	-.039	-.010	-.035	-.018	-.030	-.028	-.027	-.031	-.010	-.039	-.001	-.035	.010	-.037	.030
	42.3	-.018	-.030	-.020	-.030	-.018	-.030	-.020	-.030	-.030	-.010	-.039	-.002	-.041	.004	-.0[illegible]	.027
	70.7	-.008	-.019	-.010	-.024	-.008	-.019	-.019	-.025	-.020	-.015	-.021	-.014	-.040	-.010	-.040	-.001
59.50	8.7	-.010	-.030	-.025	-.031	-.034	-.034	-.030	-.029	-.030	-.029	-.021	-.010	-.021	0	-.021	.027
	42.3	-.010	-.029	-.025	-.031	-.025	-.025	-.028	-.026	-.029	-.025	-.018	-.010	-.038	-.008	-.040	.018
	70.7	-.025	-.028	-.030	-.030	-.025	-.027	-.025	-.025	-.025	-.025	-.025	-.025	-.039	-.026	-.039	-.013

(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
10	8.7	0.079	0.002	0.059	0.002	0.056	0.002	0.030	0.047	0.002	0.079	-0.004	0.100	-0.021	0.120
	42.3	.070	.004	.060	.004	.052	.004	.032	.045	.011	.068	-.004	.090	-.020	.112
	70.7	.060	.006	.045	.006	.060	.006	.032	.044	.013	.050	-.006	.065	-.030	.065
15	8.7	.042	-.019	.022	-.020	.022	-.020	-.010	.017	-.011	.040	-.028	.070	-.038	.090
	42.3	.036	-.020	.020	-.020	.018	-.018	-.012	.010	-.021	.025	-.030	.050	-.045	.060
	70.7	.022	-.018	.010	-.021	.010	-.018	.001	.001	-.011	.011	-.030	.025	-.051	.030
20	8.7	.020	-.029	.009	-.029	-.015	-.015	-.020	0	-.030	.015	-.045	.037	-.062	.054
	42.3	.020	-.030	.009	-.030	-.015	-.019	-.019	-.008	-.032	.010	-.049	.020	-.069	.010
	70.7	0	-.027	-.001	-.027	0	-.019	-.020	-.008	-.035	-.002	-.057	-.010	-.081	-.015
25	8.7	.020	-.030	.008	-.030	-.019	-.019	-.022	-.010	-.045	.010	-.050	.039	-.063	.040
	42.3	.010	-.030	-.002	-.030	-.020	-.020	-.031	-.009	-.045	0	-.059	.012	-.072	.020
	70.7	-.010	-.029	-.010	-.029	-.019	-.019	-.031	-.019	-.044	-.015	-.063	-.015	-.089	-.020
28.50	8.7	.020	-.038	.024	-.010	0	0	-.019	.010	-.039	.022	-.048	.049	-.050	.076
	42.3	.010	-.035	.020	-.009	.002	.002	-.019	.002	-.038	.018	-.045	.035	-.060	.060
	70.7	.002	-.034	.012	-.009	.002	.002	-.010	0	-.032	0	-.050	.010	-.069	.028
31.50	8.7	.030	-.045	.030	-.012	.002	.006	-.020	.014	-.048	.032	-.062	.061	-.082	.098
	42.3	.029	-.041	.029	-.012	.005	.005	-.019	.022	-.045	.028	-.069	.050	-.091	.080
	70.7	.022	-.038	.036	0	.020	.022	.022	-.021	-.035	.028	-.069	.042	-.095	.052
34.50	8.7	.070	-.040	.042	-.031	.001	.001	-.019	.021	-.045	.070	-.102	.078	-.169	.100
	42.3	.078	-.040	.052	-.030	.012	.003	-.018	.030	-.050	.070	-.117	.075	-.1[illegible]3	.093
	70.7	.090	-.059	.059	-.030	.018	.018	-.019	.048	-.063	.091	-.145	.100	-.241	.107
38.00	8.7	.065	-.072	.025	-.060	-.026	-.021	-.052	.009	-.088	.060	-.160	.070	-.237	.098
	42.3	.050	-.080	.033	-.066	-.035	-.022	-.071	.010	-.101	.070	-.185	.080	-.278	.100
	70.7	.077	-.099	.039	-.072	-.023	-.023	-.070	.020	-.120	.080	-.210	.101	-.315	.130
41.50	8.7	.040	-.094	-.021	-.108	-.069	-.069	-.089	-.035	-.131	-.009	-.175	.040	-.219	.096
	42.3	.032	-.100	-.030	-.120	-.070	-.075	-.101	-.040	-.148	.0	-.196	.038	-.250	.088
	70.7	.028	-.121	-.039	-.135	-.090	-.090	-.120	-.049	-.167	0	-.225	.041	-.288	.091
44.50	8.7	.021	-.079	-.038	-.100	-.070	-.065	-.089	-.036	-.122	-.001	-.160	.029	-.200	.070
	42.3	.020	-.030	-.042	-.101	-.080	-.070	-.100	-.040	-.133	-.006	-.173	.020	-.219	.063
	70.7	.012	-.104	-.050	-.127	-.092	-.098	-.111	-.060	-.150	-.021	-.195	.010	-.238	.048
47.50	8.7	0	-.085	-.010	-.069	-.050	-.053	-.069	-.031	-.083	.005	-.116	.025	-.140	.090
	42.3	.029	-.080	.019	-.070	-.020	-.058	-.030	-.030	-.045	0	-.075	.020	-.101	.042
	70.7	-.010	-.089	-.022	-.075	-.058	-.067	-.079	-.038	-.099	-.009	-.121	.010	-.160	.040
50.50	8.7	-.010	-.040	-.030	-.035	-.056	-.020	-.062	-.009	-.070	.018	-.090	.030	-.108	.048
	42.3	-.008	-.069	-.018	-.055	-.045	-.045	-.050	-.029	-.065	-.005	-.082	.008	-.104	.022
	70.7	-.015	-.055	-.018	-.040	-.050	-.040	-.048	-.030	-.055	.010	-.070	.002	-.100	.013
53.50	8.7	- - -	-.041	- - -	-.049	- - -	-.049	- - -	-.030	- -	0	- - -	- - -	-.007	- - -
	42.3	-.011	-.048	-.020	-.040	-.030	-.048	-.050	-.026	-.045	-.010	-.050	-.004	-.079	.010
	70.7	-.011	-.030	-.020	-.030	-.011	-.030	-.036	-.026	-.040	-.010	-.051	-.010	-.060	.001
56.50	8.7	-.009	-.040	-.020	-.040	-.020	-.040	-.049	-.026	-.050	-.020	-.050	-.010	-.052	0
	42.3	-.020	-.030	-.020	-.036	-.020	-.030	-.039	-.025	-.046	-.020	-.049	-.009	-.050	-.001
	70.7	-.009	-.030	-.019	-.039	-.026	-.030	-.032	-.033	-.035	-.019	-.032	-.019	-.050	-.019
59.50	8.7	0	-.014	-.020	-.025	-.032	-.025	-.040	-.022	-.040	-.040	-.021	-.018	-.040	-.011
	42.3	-.015	-.025	-.027	-.027	-.035	-.025	-.042	-.022	-.038	-.040	-.021	-.009	-.040	-.001
	70.7	-.022	-.030	-.038	-.040	-.039	-.038	-.042	-.040	-.035	-.035	-.030	-.032	-.040	-.031

NACA

TABLE IV.- 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	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface
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	0.110	-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	.006	.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	-.017	.040	-.040	.042
20	8.7	.025	-.029	.049	-.032	-.023	-.023	-.012	.010	-.027	.025	-.049	.032	-.020	.059
	42.3	.019	-.025	.045	-.010	-.020	-.020	-.012	.009	-.021	.019	-.046	.009	-.020	.045
	70.7	0	-.030	.034	-.010	-.028	-.028	-.012	0	-.031	.008	-.055	.001	-.030	.020
25	8.7	.020	-.036	.042	-.036	-.027	-.027	-.018	0	-.025	.011	.009	.029	-.018	.051
	42.3	.005	-.022	.035	-.036	-.022	-.022	-.020	.002	-.030	.020	.020	.020	-.028	.040
	70.7	-.010	-.030	.027	-.032	-.023	-.023	-.020	-.005	-.030	.005	-.005	.005	-.030	.020
28.50	8.7	.030	-.022	.012	-.010	-.005	-.001	-.019	.010	-.030	.030	-.030	.060	-.050	.070
	42.3	.021	-.024	.012	-.010	-.001	-.005	-.014	.010	-.030	.020	-.030	.048	-.058	.053
	70.7	.015	-.020	.003	-.020	-.002	-.002	-.011	.001	-.029	.003	-.037	.020	-.063	.013
31.50	8.7	.045	-.029	.025	-.020	-.002	.001	-.022	.020	-.041	.039	-.050	.070	-.079	.090
	42.3	.040	-.028	.021	-.017	-.003	.002	-.020	.020	-.040	.025	-.050	.011	-.050	.070
	70.7	.037	-.016	.021	.001	.011	.011	-.010	.020	-.039	.030	-.045	.049	-.090	.050
34.50	8.7	.051	-.067	.027	-.041	-.002	-.014	-.021	.033	-.058	.060	-.110	.070	-.140	.120
	42.3	.059	-.068	.031	-.037	-.001	-.010	-.021	.040	-.059	.070	-.121	.072	-.164	.115
	70.7	.060	-.079	.030	-.037	-.010	0	-.012	.050	-.082	.065	-.161	.085	-.223	.131
38.00	8.7	.032	-.110	-.002	-.080	-.040	-.045	-.060	.010	-.109	.049	-.175	.059	-.220	.112
	42.3	.022	-.120	-.010	-.084	-.052	-.041	-.080	.020	-.127	.060	-.200	.059	-.260	.120
	70.7	.050	-.140	.010	-.092	-.046	-.053	-.078	.019	-.140	.065	-.228	.080	-.300	.140
41.50	8.7	.008	-.139	-.010	-.087	-.040	-.039	-.078	-.009	-.121	.026	-.170	.052	-.220	.100
	42.3	-.001	-.150	-.015	-.100	-.055	-.055	-.088	-.017	-.131	.020	-.191	.047	-.241	.098
	70.7	-.011	-.170	-.024	-.116	-.071	-.071	-.107	-.020	-.161	.017	-.220	.048	-.280	.100
44.50	8.7	-.015	-.125	-.020	-.082	-.049	-.055	-.079	-.012	-.117	.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	-.022	-.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	-.096	-.029	-.070	-.050	-.050	-.071	-.028	-.095	-.005	-.110	.028	-.145	.046
50.50	8.7	-.001	-.038	-.014	-.027	-.040	-.040	-.051	0	-.061	.016	-.070	.040	-.090	.053
	42.3	0	-.055	-.015	-.050	-.031	-.037	-.048	-.021	-.061	-.010	-.067	.015	-.097	.030
	70.7	-.004	-.062	-.017	-.040	-.040	-.028	-.040	-.020	-.053	-.010	-.060	.011	-.081	.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	-.015	-.015	-.020	-.020	-.034	-.010	-.040	.012	-.050	.009
56.50	8.7	-.014	-.035	-.025	-.029	-.014	-.025	-.030	-.017	-.038	-.010	-.040	-.004	-.050	0
	42.3	-.014	-.026	-.020	-.026	-.020	-.026	-.029	-.019	-.034	-.001	-.039	-.002	-.049	-.006
	70.7	.002	-.025	-.007	-.025	-.014	-.014	-.020	-.012	-.020	-.020	-.020	-.011	-.041	-.018
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	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
10	8.7	0.100	0.030	0.061	0.040	0.062	0.060	0.043	0.070	0.014	0.081	0.014	0.133	0.009	0.142
	42.3	.090	.030	.079	.040	.068	.060	.049	.070	.019	.070	.019	.110	.010	.128
	70.7	.080	.031	.072	.040	.064	.055	.048	.059	.019	.060	.009	.084	0	.089
15	8.7	.065	.005	.050	.009	.031	.029	.012	.040	-.008	.045	-.009	.090	-.011	.103
	42.3	.057	.008	.044	.008	.033	.022	.016	.030	-.012	.030	-.019	.069	-.019	.080
	70.7	.047	.009	.037	.011	.030	.021	.015	.032	-.010	.032	-.010	.050	-.020	.050
20	8.7	.030	-.010	.020	-.010	-.010	-.010	-.011	.010	-.030	.020	-.030	.054	-.035	.067
	42.3	.022	-.015	.017	-.010	-.010	-.010	-.012	.005	-.029	.013	-.031	.039	-.040	.045
	70.7	.012	-.017	.012	-.017	-.017	-.010	-.018	0	-.031	0	-.040	.012	-.050	.012
25	8.7	.022	-.020	.010	-.026	-.017	-.017	-.018	0	-.030	.010	-.030	.038	-.030	.050
	42.3	.015	-.014	-.002	-.027	-.004	-.020	-.027	-.001	-.035	.006	-.035	.030	-.040	.032
	70.7	.009	-.020	-.005	-.026	-.019	-.019	-.020	-.006	-.038	-.006	-.038	.010	-.055	.010
28.50	8.7	.027	-.014	.010	-.012	-.002	-.002	-.018	.011	-.010	.018	-.048	.042	-.040	.070
	42.3	.020	-.014	.010	-.012	0	0	-.016	.009	-.030	.011	-.048	.031	-.048	.052
	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	-.060	.051	-.060	.080
	42.3	.036	-.020	.021	-.018	0	0	-.011	.015	-.040	.015	-.060	.040	-.060	.070
	70.7	.029	-.009	.019	-.005	.014	.014	0	.025	-.030	.025	-.059	.029	-.059	.050
34.50	8.7	.070	-.046	.010	-.061	.005	-.001	-.030	.026	-.060	.050	-.100	.088	-.120	.113
	42.3	.078	-.032	.016	-.058	.010	.009	-.028	.031	-.064	.055	-.110	.093	-.130	.116
	70.7	.080	-.040	.008	-.056	.010	.008	-.038	.050	-.082	.070	-.146	.112	-.189	.132
38.00	8.7	.050	-.080	-.020	-.110	-.008	-.032	-.077	0	-.120	.030	-.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	.006	-.150	.045	-.230	.101	-.280	.136
41.50	8.7	.006	-.138	-.020	-.109	-.055	-.060	-.098	-.023	-.140	.010	-.199	.054	-.229	.090
	42.3	0	-.143	-.027	-.131	-.062	-.070	-.108	-.029	-.151	.005	-.216	.049	-.258	.080
	70.7	-.006	-.166	-.037	-.141	-.080	-.080	-.130	-.028	-.180	-.003	-.249	.051	-.289	.085
44.50	8.7	-.016	-.126	-.040	-.110	-.061	-.069	-.101	-.030	-.140	-.010	-.180	.037	-.201	.061
	42.3	-.020	-.135	-.050	-.115	-.070	-.070	-.110	-.032	-.149	-.010	-.190	.032	-.219	.060
	70.7	-.032	-.159	-.060	-.139	-.089	-.091	-.129	-.050	-.166	-.018	-.214	.020	-.241	.040
47.50	8.7	-.010	-.094	-.026	-.080	-.045	-.045	-.080	-.030	-.095	-.005	-.130	-.025	-.138	-.045
	42.3	.025	-.092	.010	-.080	-.008	-.050	-.029	-.029	-.010	-.050	-.080	.017	-.089	.039
	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	-.080	.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	.016	-.059	.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	-.010	-.036	-.030	-.030	-.035	-.012	-.030	-.010	-.040	0
	70.7	-.014	-.036	-.019	-.042	-.025	-.033	.019	-.009	-.015	.002	-.010	.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	-.005	.014
	70.7	.004	-.009	-.003	-.010	.004	-.009	-.010	-.005	-.010	-.005	-.010	.004	-.010	.004

NACA

TABLE IV.– CONTINUED

(f) M,0.82.

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	7 Upper surface	7 Lower surface
10	8.7	0.091	0.032	0.080	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	- - -	- - -	.026	.110	0	.115
	70.7	.080	.032	.070	.038	.050	.045	.045	.061	- - -	- - -	.018	.089	-.004	.073
15	8.7	.061	.012	.042	.013	.030	.030	.010	.036	- - -	- - -	-.009	.082	-.024	.096
	42.3	.055	.003	.035	.008	.012	.012	.009	.024	- - -	- - -	-.015	.062	-.030	.070
	70.7	.039	.009	.030	.012	.015	.015	.010	.020	- - -	- - -	-.018	.040	-.038	.040
20	8.7	.037	-.020	.015	-.020	-.009	-.018	-.016	.008	- - -	- - -	-.015	.050	-.035	.060
	42.3	.022	-.017	.010	-.017	-.008	.010	-.011	0	- - -	- - -	-.030	.032	-.040	.042
	70.7	.008	-.017	-.001	-.017	-.009	.008	-.020	-.005	- - -	- - -	-.041	.010	-.050	.010
25	8.7	.032	-.025	.005	-.025	-.011	-.018	-.019	-.001	- - -	- - -	-.025	.040	-.030	.052
	42.3	.009	-.015	0	-.027	0	-.015	-.020	0	- - -	- - -	-.033	.029	-.043	.038
	70.7	-.003	-.025	-.010	-.025	-.015	-.015	-.025	-.010	- - -	- - -	-.041	.005	-.050	.009
28.50	8.7	.011	-.030	.005	-.010	-.010	-.015	-.021	-.002	- - -	- - -	-.029	.058	-.040	.060
	42.3	.008	-.030	.008	-.015	0	-.010	-.021	-.009	- - -	- - -	-.030	.040	-.043	.043
	70.7	-.005	-.032	-.010	-.015	-.005	-.010	-.021	-.011	- - -	- - -	-.039	.010	-.050	.020
31.50	8.7	.021	-.028	.015	-.019	-.019	-.010	-.022	.001	- - -	- - -	-.048	.070	-.059	.081
	42.3	.014	-.032	.014	-.018	-.016	-.010	-.022	.003	- - -	- - -	-.045	.057	-.062	.066
	70.7	.013	-.025	.020	-.001	.012	.012	-.012	.009	- - -	- - -	-.040	.046	-.060	.050
34.50	8.7	.061	-.040	.030	-.030	-.019	-.019	-.022	.021	- - -	- - -	-.099	.092	-.109	.116
	42.3	.070	-.040	.038	-.030	-.020	-.020	-.022	.029	- - -	- - -	-.108	.098	-.126	.118
	70.7	.058	-.042	.042	-.028	-.018	-.009	-.029	.048	- - -	- - -	-.144	.120	-.174	.139
37.50	8.7	.039	-.091	.002	-.030	-.060	-.060	-.060	-.001	- - -	- - -	-.181	.086	-.210	.110
	42.3	.039	-.102	-.005	-.032	-.058	-.070	-.069	.001	- - -	- - -	-.202	.094	-.250	.120
	70.7	.054	-.120	.011	-.102	-.061	-.065	-.068	.003	- - -	- - -	-.238	.109	-.286	.138
41.50	8.7	.011	-.131	-.033	-.109	-.060	-.060	-.099	-.035	- - -	- - -	-.205	.060	-.258	.078
	42.3	.009	-.140	-.032	-.123	-.069	-.069	-.110	-.040	- - -	- - -	-.226	.051	-.280	.070
	70.7	0	-.162	-.041	-.141	-.081	-.075	-.130	-.050	- - -	- - -	-.261	.050	-.318	.070
44.50	8.7	-.007	-.120	-.043	-.111	-.071	-.065	-.103	-.041	- - -	- - -	-.190	.039	-.230	.048
	42.3	-.018	-.130	-.054	-.119	-.069	-.070	-.118	-.047	- - -	- - -	-.203	.031	-.240	.041
	70.7	-.028	-.166	-.063	-.139	-.098	-.095	-.136	-.068	- - -	- - -	-.230	.018	-.262	.029
47.50	8.7	-.010	-.090	-.032	-.088	-.060	-.080	- - -	- - -	- - -	- - -	-.128	.029	-.151	.035
	42.3	.028	-.090	0	-.090	-.020	-.060	- - -	- - -	- - -	- - -	-.060	.020	-.101	.029
	70.7	-.021	-.100	-.048	-.089	-.072	-.065	- - -	- - -	- - -	- - -	-.138	.012	-.160	.015
50.50	8.7	-.012	-.041	-.038	-.041	-.038	-.050	- - -	- - -	- - -	- - -	-.065	.032	-.103	.038
	42.3	-.015	-.064	-.030	-.064	-.045	-.045	- - -	- - -	- - -	- - -	-.054	.006	-.101	.008
	70.7	-.012	-.050	-.030	-.051	-.040	-.040	- - -	- - -	- - -	- - -	-.076	-.001	-.089	-.001
53.50	8.7	- - -	-.039	- - -	-.042	- - -	-.042	- - -	- - -	- - -	- - -	- - -	.002	- - -	.012
	42.3	-.010	-.039	-.021	-.040	-.021	-.021	- - -	- - -	- - -	- - -	-.059	0	-.070	-.010
	70.7	-.005	-.035	-.020	-.030	-.028	-.028	- - -	- - -	- - -	- - -	-.049	-.001	-.055	0
56.50	8.7	-.011	-.020	-.021	-.021	-.029	-.043	- - -	- - -	- - -	- - -	-.050	-.030	-.050	-.020
	42.3	-.011	-.012	-.021	-.033	-.030	-.031	- - -	- - -	- - -	- - -	-.046	-.028	-.052	-.018
	70.7	.012	-.011	-.008	-.019	-.009	-.010	- - -	- - -	- - -	- - -	-.020	-.028	-.028	-.020
59.50	8.7	-.010	-.022	-.010	-.030	-.018	-.022	- - -	- - -	- - -	- - -	-.027	-.018	-.018	-.001
	42.3	-.010	-.020	-.018	-.025	-.010	-.020	- - -	- - -	- - -	- - -	-.025	-.018	-.017	-.010
	70.7	-.010	-.020	-.018	-.025	-.013	-.020	- - -	- - -	- - -	- - -	-.028	-.022	-.020	-.022

(g) M,0.84

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	0.092	0.032	0.075	0.040	0.061	0.060	0.040	0.070	0.020	0.090	0.009	0.112
	42.3	.090	.032	.072	.040	.060	.060	.050	.070	.029	.082	.009	.101
	70.7	.079	.032	.069	.040	.061	.055	.050	.065	.027	.069	.009	.075
15	8.7	.058	.001	.041	.001	.035	.031	.015	.039	-.003	.057	-.018	.080
	42.3	.050	-.005	.038	-.002	.031	.028	.015	.031	-.003	.040	-.020	.060
	70.7	.038	.001	.029	.001	.023	.023	.015	.031	-.001	.035	-.019	.040
20	8.7	.029	-.018	.011	-.020	0	0	-.010	.009	-.021	.025	-.035	.041
	42.3	.021	-.015	.002	-.020	-.001	-.001	-.010	.009	-.022	.019	-.038	.039
	70.7	.005	-.019	-.009	-.019	-.009	-.009	-.018	-.005	-.028	.002	-.046	.045
25	8.7	.021	-.019	.002	-.025	-.008	-.010	-.013	.001	-.022	.015	-.039	.036
	42.3	.009	-.019	-.010	-.025	-.018	-.015	-.019	.004	-.031	.015	-.039	.020
	70.7	-.002	-.019	-.010	-.025	-.015	-.015	-.019	-.009	-.031	0	-.049	0
28.50	8.7	.023	-.011	.001	.018	-.005	-.005	-.020	.009	-.022	.025	-.035	.042
	42.3	.020	-.010	.001	-.020	-.003	-.003	-.015	.005	-.024	.015	-.037	.030
	70.7	.009	-.018	.001	-.022	-.001	-.001	-.018	-.003	-.026	.006	-.040	.006
31.50	8.7	.046	-.015	.010	-.026	.010	0	-.019	.015	-.032	.039	-.048	.064
	42.3	.032	-.015	.009	-.024	.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	-.028	.009	.009	-.009	.038	-.051	.061	-.091	.104
	70.7	.072	-.048	.041	-.028	.005	.022	-.021	.051	-.070	.039	-.128	.128
37.50	8.7	.040	-.092	-.001	-.088	-.039	-.039	-.067	0	-.120	.040	-.174	.095
	42.3	.031	-.110	-.018	-.089	-.057	-.035	-.082	.008	-.138	.048	-.200	.098
	70.7	.048	-.119	.010	-.102	-.045	-.040	-.079	.008	-.148	.059	-.219	.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	-.110	-.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	-.063	-.111	-.045	-.155	-.005	-.200	.035
	42.3	-.021	-.141	-.053	-.118	-.065	-.068	-.120	-.050	-.165	-.010	-.219	.030
	70.7	-.035	-.168	-.069	-.143	-.100	-.090	-.139	-.070	-.188	-.029	-.241	.015
47.50	8.7	-.001	-.090	-.045	-.093	-.059	-.055	-.080	-.039	-.129	-.026	-.135	.020
	42.3	.035	-.089	-.002	-.091	-.015	-.058	-.035	-.041	-.080	-.031	-.092	.011
	70.7	-.014	-.099	-.055	-.099	-.069	-.062	-.090	-.049	-.130	-.039	-.150	.002
50.50	8.7	-.010	-.042	-.042	-.049	-.038	-.038	-.061	-.013	-.095	-.004	-.095	.026
	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	- - -	-.023	- - -	-.005	- - -	.010
	42.3	- 005	-.035	-.025	-.042	-.020	-.020	-.041	-.021	-.049	-.009	-.058	.002
	70.7	-.005	-.028	-.019	-.019	-.015	-.015	-.026	-.018	-.045	-.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	-.010	-.010	-.019	-.010	-.010	-.010
59.50	8.7	-.002	-.009	-.018	-.020	-.002	-.009	-.021	-.009	-.030	-.009	.028	-.001
	42.3	0	-.010	-.010	-.017	0	-.010	-.018	-.007	-.027	-.009	-.025	-.008
	70.7	-.005	-.012	-.012	-.025	-.005	-.018	-.025	-.016	-.025	-.015	-.025	-.015

NACA

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	0.020	0.122
	42.3	.099	.040	.075	.035	.050	.056	.050	.078	.035	.089	.022	.112
	70.7	.089	.035	.069	.035	.050	.056	.055	.069	.038	.025	.023	.089
15	8.7	.068	.011	.043	.040	.021	.019	.020	.040	.009	.059	-.005	.091
	42.3	.062	.009	.038	.035	.019	.015	.018	.031	.005	.045	-.009	.070
	70.7	.050	.010	.030	.030	.020	.015	.021	.033	.001	.039	-.009	.052
20	8.7	.029	-.013	.015	-.013	-.009	-.013	-.015	.010	-.028	.022	-.029	.050
	42.3	.021	-.015	.010	-.015	-.008	-.010	-.012	.005	-.025	.015	-.030	.034
	70.7	.009	-.020	0	-.015	-.008	-.010	-.015	0	-.030	-.002	-.038	.010
25	8.7	.025	-.018	.010	-.020	-.013	-.015	-.020	-.005	-.021	.018	-.027	.041
	42.3	.010	-.020	-.002	-.020	-.015	-.020	-.019	-.001	-.018	.010	-.020	.029
	70.7	0	-.015	0	-.019	-.010	-.015	-.015	-.005	-.030	-.005	-.040	.009
28.50	8.7	.035	-.009	.012	-.015	-.020	-.009	-.016	-.005	-.028	.029	-.035	.040
	42.3	.033	-.009	.010	-.020	-.020	-.009	-.013	-.010	-.030	.020	-.038	.029
	70.7	.018	-.010	0	-.018	-.019	-.011	-.013	-.010	-.028	.005	-.042	.005
31.50	8.7	.029	-.013	.005	-.025	-.025	-.013	-.020	-.015	-.034	.020	-.034	.031
	42.3	.015	-.011	-.001	-.020	-.020	-.011	-.028	-.011	-.029	.012	-.040	.021
	70.7	.009	-.010	-.010	-.020	-.020	-.010	-.028	-.021	-.029	0	-.047	0
34.50	8.7	.032	-.010	.009	-.020	-.020	-.010	-.012	.009	-.020	.028	-.030	.058
	42.3	.029	-.009	.001	-.019	-.010	-.009	-.012	.001	-.020	.019	-.029	.042
	70.7	.018	-.012	0	-.020	-.015	-.010	-.012	-.001	-.020	.009	-.033	.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	.061
	70.7	.031	0	.019	-.005	.007	.010	.001	.021	-.010	.035	-.020	.051
41.50	8.7	.016	-.141	-.029	-.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	-.092	-.099	-.130	-.048	-.205	0	-.268	.061
44.50	8.7	-.005	-.138	-.050	-.132	-.087	-.089	-.118	-.041	-.169	-.010	-.220	.042
	42.3	-.014	-.150	-.060	-.141	-.091	-.091	-.121	-.050	-.180	-.010	-.240	.039
	70.7	-.025	-.175	-.070	-.162	-.112	-.115	-.142	-.068	-.200	-.026	-.270	.028
47.50	8.7	-.009	-.101	-.034	-.090	-.069	-.069	-.081	-.038	-.110	-.002	-.128	.032
	42.3	.038	-.100	.005	-.100	-.080	-.075	-.093	-.040	-.065	-.011	-.078	.029
	70.7	-.020	-.107	-.044	-.099	-.075	-.080	-.088	-.045	-.115	-.019	-.136	.019
50.50	8.7	-.015	-.040	-.033	-.040	-.033	-.058	-.061	-.008	-.070	.015	-.080	.039
	42.3	-.013	-.065	-.025	-.065	-.055	-.050	-.050	-.030	-.069	-.015	-.075	.011
	70.7	-.013	-.058	-.027	-.058	-.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	-.002
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	-.020	-.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	0.090	0.050	0.060	0.060	0.059	0.089	0.028	0.095	0.022	0.133
	42.3	.098	.045	.088	.055	.063	.065	.060	.085	.034	.089	.025	.118
	70.7	.085	.050	.080	.058	.067	.067	.060	.072	.032	.072	.022	.095
15	8.7	.065	.015	.052	.020	.025	.030	.023	.046	.001	.059	0	.098
	42.3	.059	.010	.049	.018	.029	.018	.026	.041	.002	.042	-.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	.057
	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	-.019	.050
	42.3	.019	-.010	.011	-.010	-.001	.005	-.009	.010	-.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	-.002	-.002	-.001	.021	-.015	.025	-.019	.061
	42.3	.018	-.005	.008	-.010	-.002	-.002	-.001	.020	-.019	.020	-.023	.050
	70.7	.002	-.010	.002	-.005	-.005	-.005	0	.010	-.019	.010	-.025	.028
31.50	8.7	.032	-.005	.018	-.010	-.005	.002	-.001	.030	-.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	.012	.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	.063	-.080	.111
	70.7	.079	-.025	.118	.034	.027	.021	.010	.080	-.060	.081	-.109	.135
38.00	8.7	.030	-.091	.059	-.031	-.039	-.039	-.051	.022	-.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	.031	-.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	-.062	-.069	-.101	-.018	-.169	.016	-.244	.070
	70.7	-.021	-.173	-.029	-.149	-.078	-.083	-.120	-.027	-.190	.011	-.272	.068
44.50	8.7	-.026	-.155	-.040	-.128	-.077	-.070	-.109	-.023	-.166	.005	-.260	.049
	42.3	-.038	-.161	-.046	-.136	-.081	-.072	-.118	-.022	-.181	-.002	-.279	.047
	70.7	-.051	-.195	-.060	-.155	-.099	-.095	-.139	-.048	-.201	-.020	-.310	.031
47.50	8.7	-.021	-.109	.021	-.038	-.060	-.060	-.079	-.025	-.114	-.010	-.149	.030
	42.3	.013	-.100	.037	-.041	-.069	-.065	-.080	-.030	-.069	-.018	-.099	.021
	70.7	-.032	-.111	.009	-.041	-.068	-.068	-.081	-.033	-.120	-.020	-.158	.014
50.50	8.7	-.021	-.042	.020	.018	-.045	-.021	-.054	.003	-.072	.005	-.079	.039
	42.3	-.016	-.067	.029	-.009	-.040	-.031	-.045	-.018	-.069	-.015	-.071	.011
	70.7	-.016	-.053	.030	.003	-.033	-.033	-.033	-.015	-.053	-.011	-.061	.005
53.50	8.7	- - -	-.048	- - -	-.039	- - -	-.028	- - -	-.009	- - -	0	- - -	.014
	42.3	-.015	-.040	-.015	-.035	-.035	-.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	-.020	-.038	-.015	-.038	.001
	42.3	-.022	-.030	-.022	-.030	-.025	-.030	-.018	-.008	-.037	-.008	-.037	.017
	70.7	-.009	-.024	-.012	-.024	-.009	-.020	0	-.005	-.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		-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	0.099	0.039	0.077	0.039	0.050	0.052	0.058	0.081	0.042	0.105
	42.3	.095	.041	.075	.041	.065	.053	.061	.081	.049	.094
	70.7	.085	.040	.070	.040	.060	.060	.061	.072	.049	.081
15	8.7	.061	.012	.038	.008	.030	.012	.025	.049	.010	.067
	42.3	.057	.005	.032	.001	.030	.030	.022	.040	.008	.055
	70.7	.042	.010	.030	.008	.030	.020	.025	.035	.011	.049
20	8.7	.019	-.020	.009	-.020	-.006	-.006	-.008	.020	-.015	.031
	42.3	.011	-.021	.007	-.019	-.006	-.006	-.008	.013	-.012	.021
	70.7	.002	-.030	-.010	-.020	-.010	-.010	-.011	.005	-.019	.011
25	8.7	.010	-.021	.005	-.019	-.006	-.006	-.009	.003	-.019	.021
	42.3	-.005	-.020	-.005	-.020	-.015	-.015	-.012	.010	-.020	.015
	70.7	-.012	-.020	-.012	-.020	-.015	-.015	-.012	0	-.020	.009
28.50	8.7	.020	-.008	.010	-.011	0	0	-.011	.010	-.011	.030
	42.3	.001	-.008	.001	-.010	.001	-.002	-.009	.010	-.012	.029
	70.7	.001	-.012	.001	-.012	.001	-.001	-.011	0	-.011	.015
31.50	8.7	.031	-.008	.019	-.008	.010	.010	-.009	.020	-.009	.045
	42.3	.032	-.001	.015	-.008	.010	-.001	-.003	.020	-.003	.040
	70.7	.031	.010	.028	.005	.028	.021	.011	.030	.002	.045
34.50	8.7	.061	-.033	.033	-.022	0	0	0	.042	-.025	.080
	42.3	.070	-.030	.042	-.020	.013	.008	.001	.050	-.030	.082
	70.7	.080	-.030	.050	-.011	.025	.025	.001	.069	-.038	.100
37.50	8.7	.032	-.104	-.001	-.082	-.045	-.048	-.061	.010	-.106	.052
	42.3	.022	-.111	-.012	-.088	-.055	-.040	-.081	.011	-.124	.061
	70.7	.047	-.120	.014	-.106	-.040	-.051	-.075	.012	-.131	.063
41.50	8.7	-.001	-.169	-.028	-.135	-.090	-.093	-.107	-.028	-.160	.020
	42.3	-.012	-.172	-.040	-.142	-.099	-.103	-.121	-.032	-.173	.010
	70.7	-.023	-.190	-.052	-.161	-.110	-.119	-.140	-.041	-.191	.005
44.50	8.7	-.038	-.195	-.061	-.156	-.115	-.110	-.135	-.042	-.195	-.001
	42.3	-.043	-.204	-.069	-.161	-.125	-.118	-.146	-.049	-.208	-.010
	70.7	-.059	-.236	-.081	-.185	-.140	-.140	-.169	-.069	-.237	-.025
47.50	8.7	-.026	-.122	-.045	-.102	-.071	-.069	-.081	-.025	-.125	-.008
	42.3	.015	-.120	-.001	-.110	-.030	-.075	-.031	-.030	-.071	-.011
	70.7	-.039	-.128	-.051	-.109	-.060	-.060	-.090	-.035	-.131	-.020
50.50	8.7	-.025	-.041	-.035	-.051	-.035	-.035	-.052	.004	-.069	.015
	42.3	-.015	-.061	-.030	-.069	-.048	-.048	-.043	-.021	-.050	-.011
	70.7	-.015	-.055	-.030	-.055	-.038	-.038	-.032	-.010	-.050	-.012
53.50	8.7	- - -	-.046	- - -	-.040	- - -	-.035	- - -	-.018	- - -	-.008
	42.3	-.012	-.044	-.025	-.035	-.012	-.030	-.032	-.015	-.038	-.005
	70.7	-.010	-.030	-.012	-.032	-.010	-.025	-.021	-.010	-.021	-.004
56.50	8.7	-.025	-.045	-.025	-.031	-.031	-.035	-.031	-.022	-.033	-.012
	42.3	-.021	-.030	-.021	-.021	-.021	-.029	-.028	-.010	-.028	-.002
	70.7	-.010	-.031	-.010	-.012	-.020	-.025	-.011	-.011	-.011	-.003
59.50	8.7	-.008	-.015	-.029	-.029	-.008	-.015	-.023	-.009	-.023	.002
	42.3	-.011	-.025	-.029	-.029	-.011	-.020	-.020	-.002	-.020	0
	70.7	-.025	-.025	-.029	-.032	-.012	-.022	-.015	-.021	-.015	-.009

(k) M,0.92.

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	0.116	0.050	0.100	0.057	0.070	0.070	0.046	0.081	0.035	0.100
	42.3	.112	.056	.100	.060	.076	.071	.052	.082	.040	.091
	70.7	.098	.050	.088	.060	.075	.075	.052	.070	.040	.076
15	8.7	.075	.020	.061	.022	.035	.035	.015	.042	.005	.060
	42.3	.069	.021	.054	.015	.039	.028	.020	.040	.001	.055
	70.7	.059	.021	.050	.021	.035	.035	.020	.035	.005	.040
20	8.7	.042	-.005	.021	-.005	.001	.001	-.009	.020	-.009	.039
	42.3	.038	-.002	.021	-.002	.018	0	-.001	.015	-.009	.030
	70.7	.028	-.011	.006	-.018	-.008	-.010	-.020	.013	-.013	.019
25	8.7	.031	-.001	.011	-.018	.011	-.001	-.008	.011	-.008	.023
	42.3	.025	0	.001	-.010	0	0	-.015	.011	-.015	.020
	70.7	.015	-.009	0	-.009	0	-.009	-.013	.005	-.013	.012
28.50	8.7	.031	-.001	.021	-.001	.009	0	-.009	.015	-.009	.035
	42.3	.029	.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	-.005	.025	-.005	.050
	42.3	.047	.010	.040	.010	.020	.010	.005	.030	.005	.047
	70.7	.051	.022	.048	.025	.039	.022	.012	.033	.015	.051
34.50	8.7	.082	-.018	.060	-.001	.020	.028	-.010	.042	-.020	.081
	42.3	.092	-.011	.070	.007	.030	.036	-.010	.051	-.020	.085
	70.7	.110	-.015	.085	.011	.035	.050	-.005	.075	-.031	.108
37.50	8.7	.058	-.085	.026	-.068	-.015	-.018	-.075	.010	-.106	.059
	42.3	.049	-.100	.010	-.072	-.042	-.015	-.091	.015	-.124	.062
	70.7	.070	-.110	.032	-.088	-.030	-.023	-.091	.020	-.130	.070
41.50	8.7	.019	-.160	-.020	-.129	-.080	-.071	-.130	-.030	-.160	.020
	42.3	.010	-.165	-.030	-.140	-.091	-.080	-.140	-.038	-.172	.019
	70.7	.004	-.183	-.040	-.151	-.110	-.091	-.160	-.046	-.190	.010
44.50	8.7	-.020	-.202	-.060	-.170	-.128	-.104	-.180	-.050	-.215	-.005
	42.3	-.028	-.210	-.061	-.180	-.136	-.113	-.191	-.058	-.229	-.012
	70.7	-.040	-.240	-.081	-.205	-.135	-.131	-.210	-.081	-.249	-.030
47.50	8.7	-.012	-.188	-.030	-.120	-.086	-.070	-.139	-.038	-.208	-.008
	42.3	.024	-.171	.011	-.130	-.035	-.071	-.081	-.041	-.141	-.009
	70.7	-.028	-.206	-.050	-.130	-.095	-.079	-.153	-.050	-.231	-.020
50.50	8.7	-.015	-.035	-.021	-.035	-.046	-.021	-.061	0	-.061	.021
	42.3	-.010	-.060	-.018	-.055	-.043	-.043	-.050	-.027	-.060	-.009
	70.7	-.011	-.040	-.019	-.040	-.035	-.035	-.041	-.020	-.041	-.009
53.50	8.7	- - -	-.031	- - -	-.031	- - -	-.031	- - -	-.015	- - -	.002
	42.3	0	-.030	-.009	-.030	-.005	-.028	-.029	-.015	-.043	0
	70.7	.008	-.011	-.009	-.020	.019	-.010	-.026	-.010	-.026	0
56.50	8.7	-.009	-.033	-.020	-.013	-.023	-.030	-.031	-.020	-.029	-.002
	42.3	-.008	-.020	-.018	-.030	-.030	-.020	-.025	-.010	-.020	.001
	70.7	.005	-.015	-.004	-.015	-.002	-.002	-.009	-.009	0	.007
59.50	8.7	.005	-.009	.005	-.001	-.019	-.009	-.029	-.005	-.020	.006
	42.3	-.005	-.010	-.005	-.010	-.009	-.011	-.028	-.012	-.018	-.004
	70.7	-.002	-.010	-.010	-.015	-.010	-.020	-.025	-.025	-.011	-.015

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	.015
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	-.0[illegible]
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.

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
15	0	0.132	---	0.394	---	0.157	---	0.436	---	0.195	---	-0.446	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	.132	-0.258	.368	-0.141	-.089	-0.064	-.099	0.029	.088	0.083	-.314	0.226
	20	.061	-.229	.003	-.154	-.077	-.093	-.141	-.086	-.204	.051	-.318	.153
	30	.003	-.229	-.032	-.154	-.096	-.119	-.151	-.054	-.204	.010	-.287	.096
	40	-.013	-.229	-.058	-.154	-.122	-.125	-.134	-.067	-.204	-.013	-.285	.064
	50	-.035	---	-.071	---	-.125	---	-.157	---	-.198	---	-.255	---
	60	-.061	-.203	-.077	-.154	-.125	-.125	-.154	-.093	-.188	-.054	-.239	0
	70	---	-.197	---	-.147	---	-.125	---	-.093	---	-.058	---	0
	80	-.052	-.161	-.061	-.119	-.096	-.119	-.279	-.087	-.125	-.054	-.159	-.003
	90	-.029	---	-.029	---	-.061	---	-.228	---	-.077	---	-.096	---
35	0	.035	---	.253	---	.276	---	.160	---	-.204	---	-.653	---
	5	.197	---	.096	---	-.087	---	-.244	---	-.488	---	-.758	---
	10	.110	-.181	.032	-.221	-.090	-.125	-.189	-.013	-.316	.099	-.567	.807
	20	.029	-.110	-.026	-.205	-.122	-.135	-.189	-.061	-.268	.089	-.414	.181
	30	-.006	-.261	-.054	-.189	-.141	-.151	-.198	-.087	-.252	-.013	-.350	.054
	40	-.035	---	-.070	---	-.141	---	-.186	---	-.227	---	-.293	---
	50	-.058	---	-.087	---	-.141	---	-.170	---	-.204	---	-.255	---
	60	-.003	-.165	-.026	-.119	-.061	-.182	-.077	-.077	-.093	-.045	-.127	0
	70	-.097	-.129	-.090	-.090	-.093	-.093	-.093	-.067	-.093	-.035	-.096	0
	80	---	-.084	---	-.061	---	-.054	---	-.029	---	0	---	.006
	90	.003	---	.007	---	.001	---	.003	---	.003	---	-.016	---
55	0	-.584	---	.131	---	.420	---	.404	---	.089	---	-.430	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	.126	-.390	.035	-.237	-.090	-.125	-.202	0	-.332	.067	-.898	.217
	20	.035	-.110	-.022	-.093	-.119	-.125	-.189	-.045	-.278	.038	-.373	.127
	30	-.003	-.245	-.054	-.157	-.131	-.119	-.186	-.061	-.249	.003	-.637	.070
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.042	---	-.067	---	-.125	---	-.154	---	-.188	---	-.220	---
	60	-.035	-.035	-.058	.003	-.109	.003	-.125	.019	-.150	.061	-.166	.096
	70	-.089	-.126	-.089	-.087	-.077	-.077	-.093	-.061	-.093	-.086	-.111	0
	80	-.003	-.061	.003	-.089	-.026	-.089	-.089	0	-.045	.003	-.057	.025
	90	.029	0	.035	.029	.010	.019	.019	.029	.006	.089	0	.035
75	0	-.277	---	.321	---	.452	---	.321	---	-.224	---	-.478	---
	5	.255	---	.099	---	-.077	---	-.269	---	-.439	---	-.822	---
	10	.142	-.387	.042	-.247	-.087	-.119	-.196	.006	-.332	.115	-.796	-.223
	20	.110	-.298	-.003	-.189	-.119	-.125	-.183	-.035	-.268	.048	-.637	.127
	30	-.003	-.803	-.045	-.152	-.125	-.111	-.173	-.061	-.236	.003	-.471	.064
	40	-.010	---	-.054	---	-.119	---	-.154	---	-.195	---	-.318	---
	50	-.035	---	-.054	---	-.119	---	-.141	---	-.188	---	-.293	---
	60	-.032	-.148	-.054	-.119	-.093	-.093	-.093	-.067	-.181	-.035	-.143	0
	70	-.019	-.100	-.032	-.067	-.061	-.077	-.064	-.054	-.077	-.029	-.089	0
	80	-.003	-.035	.003	-.022	-.006	-.022	-.022	.003	-.086	.003	-.031	.016
	90	.089	---	.035	---	.035	---	.035	---	.035	---	.085	---
95	0	-.363	---	.231	---	.436	---	.381	---	-.045	---	-.153	---
	5	.165	---	.067	---	-.109	---	-.268	---	-.444	---	-.404	---
	10	.055	-.310	.003	-.208	-.109	-.123	-.196	-.025	-.291	.044	-.430	.106
	20	-.029	-.212	-.045	-.151	-.109	-.119	-.151	-.059	-.204	-.031	-.388	.006
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.065	-.132	-.061	-.260	-.093	-.107	-.099	-.091	-.125	-.088	-.223	-.056
	50	-.071	---	-.061	---	-.093	---	-.093	---	-.118	---	-.191	---
	60	-.042	-.060	-.035	-.044	-.013	-.054	-.054	-.041	-.061	-.041	-.156	-.054
	70	-.035	-.054	.003	-.028	-.032	-.028	-.029	-.031	-.035	-.031	-.143	-.031
	80	0	-.006	.019	.025	.010	.013	-.019	.028	.003	.006	-.102	.006
	90	.028	---	.044	---	.057	---	.056	---	.035	---	-.088	---

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
15	0	-1.313	---	-2.184	---	-3.048	---	-3.698	---	-4.650	---	-5.013	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	-.481	0.348	-.646	0.430	-.791	0.495	-.888	0.556	-1.061	0.684	-1.408	0.341
	20	-.427	.217	-.544	.110	-.621	.363	-.722	.403	-.846	.463	-.994	.503
	30	-.380	.184	-.456	.247	-.543	.296	-.591	.332	-.695	.392	-.791	.746
	40	-.345	.127	-.411	.184	-.476	.228	-.498	.268	-.595	.328	-.659	.360
	50	-.313	---	-.358	---	-.408	---	-.450	---	-.524	---	-.576	---
	60	-.278	.063	-.316	.104	-.344	.135	-.371	.173	-.460	.206	-.531	.238
	70	---	.038	---	.085	---	.103	---	.141	---	.167	---	.190
	80	-.184	.038	-.196	.057	-.225	.071	-.243	.108	-.132	.133	-.344	.141
	90	-.101	---	-.127	---	-.148	---	-.147	---	-.186	---	-.215	---
35	0	-.744	---	-.889	---	-.958	---	-.987	---	-.990	---	-.958	---
	5	-1.038	---	-1.335	---	-1.563	---	-1.573	---	-1.631	---	-1.587	---
	10	-.943	.294	-1.412	.373	-1.672	.424	-1.712	.460	-1.682	.498	-1.587	.553
	20	-.744	.190	-1.360	.263	-1.987	.299	-1.997	.339	-1.746	.398	-1.514	.484
	30	-.532	.133	-.991	.171	-1.563	.553	-1.712	.263	-1.617	.305	-1.587	.360
	40	-.380	---	-.228	---	-.666	---	-1.197	---	-1.424	---	-1.344	---
	50	-.285	---	-.169	---	-.186	---	-.598	---	-1.189	---	-1.177	---
	60	-.152	.047	-.101	.082	-.090	.096	-.195	.139	-.695	.135	-.895	.145
	70	-.095	.032	-.054	.060	-.058	.074	-.070	.081	-.373	.096	-.569	.101
	80	---	.038	---	.061	---	.074	---	.060	---	.071	---	.081
	90	-.022	---	-.006	---	.019	---	-.045	---	-.212	---	-.505	---
55	0	-.823	---	-1.019	---	-1.215	---	-1.163	---	-.984	---	-.952	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	-1.088	.301	-.956	.032	-.958	.392	-.946	.488	-.990	.457	-.894	.151
	20	-.981	.215	-.956	.253	-.974	.296	-.939	.338	-.894	.360	-.862	.392
	30	-.759	.133	-.999	.184	-1.023	.206	-.946	.236	-.862	.264	-.830	.296
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.285	---	-.829	---	-.990	---	-.946	---	-.895	---	-.820	---
	60	-.104	.095	-.696	.114	-.887	.103	-.882	.109	-.826	.141	-.791	.109
	70	-.095	.178	-.449	.063	-.733	.045	-.760	.045	-.765	.039	-.756	.013
	80	-.047	.041	-.222	.063	-.372	.039	-.658	.016	-.727	-.039	-.727	-.055
	90	.003	.047	-.038	.063	-.412	.010	-.559	-.077	-.689	-.154	-.669	-.183
75	0	-.728	---	-.734	---	-.707	---	-.642	---	-.572	---	-.601	---
	5	-.759	---	-.639	---	-.569	---	-.530	---	-.340	---	-.563	---
	10	-.759	.291	-.608	.339	-.547	.254	-.527	.271	-.566	.415	-.560	.141
	20	-.734	.196	-.582	.231	-.537	.257	-.324	.275	-.540	.299	-.534	.328
	30	-.703	.127	-.560	.152	-.505	.167	-.498	.176	-.508	.206	-.508	.232
	40	-.631	---	-.544	---	-.502	---	-.492	---	-.505	---	-.502	---
	50	-.538	---	-.528	---	-.502	---	-.492	---	-.469	---	-.476	---
	60	-.411	.025	-.506	.019	-.505	-.010	-.492	-.013	-.498	.006	-.466	.010
	70	-.313	.025	-.475	-.003	-.492	-.029	-.489	-.021	-.476	-.035	-.466	-.032
	80	-.190	.028	-.412	-.038	-.476	-.090	-.466	-.089	-.450	-.090	-.444	-.090
	90	-.089	---	-.354	---	-.437	---	-.431	---	-.421	---	-.412	---
95	0	-.228	---	-.253	---	-.341	---	-.396	---	-.412	---	-.379	---
	5	-.405	---	-.307	---	-.309	---	-.304	---	-.315	---	-.312	---
	10	-.380	.160	-.291	.191	-.286	.223	-.300	.286	-.315	.261	-.309	---
	20	-.316	.034	-.256	.066	-.254	.082	-.281	.091	-.299	.122	-.299	---
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.228	-.050	-.190	-.044	-.219	-.031	-.243	-.025	-.257	-.006	-.263	---
	50	-.196	---	-.169	---	-.215	---	-.240	---	-.251	---	-.253	---
	60	-.158	-.041	-.158	-.047	-.190	-.053	-.211	-.060	-.244	-.050	-.267	---
	70	-.158	-.056	-.161	-.072	-.212	-.088	-.227	-.094	-.248	-.091	-.276	---
	80	-.152	-.034	-.158	-.060	-.209	-.078	-.227	-.088	-.244	-.088	-.273	---
	90	-.152	---	-.172	---	-.194	---	-.194	---	-.229	---	---	---

NACA

TABLE V.– CONTINUED

(b) M,0.60.

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
15	0	0.245	---	0.429	---	0.510	---	0.470	---	0.192	---	-0.190	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	.158	-0.237	.088	-0.168	-.009	-0.063	-.102	0.057	-.220	0.170	-.332	0.250
	20	.085	-.220	.022	-.170	-.055	-.095	-.141	-.002	-.232	.002	-.316	.158
	30	.033	-.220	-.022	-.175	-.087	-.108	-.160	-.026	-.232	.054	-.307	.110
	40	.003	-.225	-.050	-.190	-.108	-.128	-.170	-.050	-.230	.012	-.285	.060
	50	-.028	---	-.070	---	-.122	---	-.178	---	-.225	---	-.278	---
	60	-.042	-.210	-.080	-.180	-.123	-.135	-.167	-.088	-.218	-.030	-.252	.008
	70	---	-.190	---	-.172	---	-.137	---	-.073	---	-.040	---	-.008
	80	-.042	-.152	-.073	-.140	-.100	-.110	-.125	-.073	-.152	-.030	-.180	-.010
	90	-.013	---	-.039	---	-.053	---	-.068	---	-.090	---	-.105	---
35	0	.128	---	.260	---	.318	---	.168	---	-.252	---	-.435	---
	5	.224	---	.105	---	-.055	---	-.270	---	-.512	---	-.745	---
	10	.130	-.360	.045	-.275	-.070	-.140	-.212	-.004	-.368	.145	-.595	.225
	20	.055	-.300	-.028	-.248	-.115	-.150	-.215	-.053	-.315	.055	-.440	.123
	30	.008	-.268	-.072	-.243	-.140	-.158	-.222	-.075	-.290	.013	-.350	.065
	40	-.022	---	-.082	---	-.148	---	-.202	---	-.260	---	-.325	---
	50	-.038	---	-.090	---	-.132	---	-.188	---	-.225	---	-.275	---
	60	---	-.152	---	-.160	---	-.120	---	-.080	---	-.020	---	-.020
	70	---	-.122	---	-.130	---	-.095	---	-.068	---	-.023	---	0
	80	---	-.055	---	-.070	---	-.065	---	-.035	---	.003	---	.012
	90	.038	---	.019	---	.021	---	0	---	-.010	---	-.020	---
55	0	-.391	---	.090	---	.411	---	.416	---	-.020	---	-.247	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	.146	-.390	.050	-.300	-.080	-.151	-.221	0	-.417	.141	-.588	.215
	20	.051	-.311	-.020	-.242	-.110	-.142	-.209	-.039	-.330	.061	-.665	.128
	30	.010	-.240	-.052	-.201	-.123	-.128	-.200	-.051	-.289	.022	-.418	.070
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	.038	---	.078	---	-.121	---	-.160	---	-.219	---	-.242	---
	60	-.038	-.040	-.061	-.039	-.100	-.010	-.139	.020	-.167	.051	-.188	.070
	70	-.010	-.105	-.039	-.110	-.058	-.068	-.110	-.039	-.103	-.081	-.121	.003
	80	.014	-.050	-.009	-.040	-.039	-.030	-.042	-.010	-.089	.008	-.050	.025
	90	.049	.019	.030	.009	.031	.020	.020	.046	.020	.041	.002	.035
75	0	-.130	---	.263	---	.458	---	.353	---	-.250	---	-.382	---
	5	.218	---	.138	---	-.054	---	-.295	---	-.607	---	-.800	---
	10	.130	-.400	.069	-.272	-.077	-.141	-.213	.025	-.428	.154	-.762	.200
	20	.038	-.314	-.010	-.220	-.102	-.137	-.193	-.021	-.338	.072	-.665	.120
	30	-.010	-.278	-.043	-.208	-.128	-.150	-.186	-.058	-.270	.008	-.518	.040
	40	-.030	---	-.052	---	-.115	---	-.153	---	-.230	---	-.390	---
	50	-.060	---	-.072	---	-.120	---	-.148	---	-.198	---	-.270	---
	60	-.045	-.155	-.072	-.130	-.096	-.115	-.097	-.068	-.140	-.038	-.185	-.030
	70	-.038	-.100	-.023	-.078	-.058	-.068	-.100	-.038	-.100	-.022	-.118	-.030
	80	.005	-.040	.005	-.023	-.012	-.012	-.030	.005	-.040	.005	-.053	-.002
	90	.034	---	.048	---	.028	---	.040	---	.048	---	.002	---
95	0	-.240	---	.168	---	.430	---	.378	---	.138	---	-.115	---
	5	.158	---	.060	---	-.089	---	-.316	---	-.575	---	-.500	---
	10	.053	-.345	-.004	-.268	-.113	-.148	-.224	-.048	-.373	.075	-.448	.118
	20	-.050	-.219	-.070	-.187	-.123	-.131	-.180	-.087	-.245	-.030	-.337	0
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.082	-.168	-.075	-.150	-.100	-.145	-.120	-.120	-.145	-.120	-.222	-.070
	50	-.080	---	-.080	---	-.100	---	-.118	---	-.135	---	-.187	---
	60	-.053	-.077	-.037	-.053	-.055	-.063	-.063	-.037	-.053	-.037	-.138	-.030
	70	-.050	-.055	-.020	-.035	-.035	-.020	-.020	-.022	-.050	-.020	-.115	-.038
	80	-.010	.025	.008	.023	.012	.010	.008	-.010	0	.010	-.078	.008
	90	.032	---	.048	---	.069	---	.055	---	.055	---	-.050	---

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
15	0	-0.648	---	-1.060	---	-1.310	---	-1.718	---	-2.066	---
	5	---	---	---	---	---	---	---	---	---	---
	10	-.520	0.340	-.653	0.440	-.778	0.505	-.982	0.570	-1.210	0.645
	20	-.470	.235	-.570	.323	-.620	.380	-.765	.438	-.870	.508
	30	-.422	.171	-.502	.250	-.560	.300	-.665	.358	-.718	.418
	40	-.395	.115	-.448	.190	-.490	.238	-.560	.284	-.647	.342
	50	-.368	---	-.400	---	-.445	---	-.500	---	-.590	---
	60	-.335	.052	-.362	.113	-.388	.152	-.448	.185	-.538	.238
	70	---	.028	---	.085	---	.118	---	.140	---	.180
	80	-.236	.020	-.236	.068	-.245	.090	-.297	.108	-.382	.138
	90	-.140	---	-.148	---	-.148	---	-.195	---	-.244	---
35	0	-.660	---	-.910	---	-.932	---	-.960	---	-.852	---
	5	-.959	---	-1.260	---	-1.375	---	-1.446	---	-1.340	---
	10	-.870	.301	-1.261	.375	-1.459	.310	-1.483	.480	-1.352	.520
	20	-.722	.194	-1.340	.260	-1.640	.230	-1.635	.369	-1.339	.411
	30	-.665	.129	-1.216	.187	-1.324	.165	-1.535	.281	-1.309	.329
	40	-.471	---	-.780	---	-1.010	---	-1.340	---	-1.239	---
	50	-.365	---	-.285	---	-.330	.100	-1.010	---	-1.005	---
	60	-.210	.041	-.099	.075	-.110	.078	-.545	.130	-.841	.141
	70	-.126	.025	-.060	.055	-.060	.070	-.245	.100	-.581	.100
	80	---	.038	---	.050	---	.060	---	.060	---	.060
	90	-.050	---	-.022	---	-.024	---	-.120	---	-.489	---
55	0	-.655	---	-.900	---	-1.028	---	-1.120	---	-1.028	---
	5	---	---	---	---	---	---	---	---	---	---
	10	-1.038	.290	-.969	.375	-.912	.401	-.891	.439	-.860	.470
	20	-.955	.189	-.940	.269	-.906	.299	-.860	.320	-.827	.377
	30	-.792	.128	-.920	.188	-.920	.210	-.855	.230	-.800	.272
	40	---	---	---	---	---	---	---	---	---	---
	50	-.382	---	-.810	---	-.895	---	-.840	---	-.771	---
	60	-.255	.088	-.735	.118	-.825	.109	-.815	.175	-.734	.118
	70	-.142	.018	-.590	.059	-.720	.045	-.759	.110	-.700	-.001
	80	-.075	.025	-.440	.051	-.620	.028	-.709	.025	-.680	-.090
	90	.001	.048	-.240	.049	-.460	-.039	-.655	-.042	-.627	-.172
75	0	-.675	---	-.713	---	-.682	---	-.675	---	-.634	---
	5	-.833	---	-.665	---	-.555	---	-.531	---	-.560	---
	10	-.812	.262	-.638	.338	-.552	.350	-.530	.405	-.552	.418
	20	-.795	.159	-.600	.218	-.523	.241	-.510	.292	-.530	.308
	30	-.743	.078	-.570	.138	-.495	.147	-.490	.192	-.500	.203
	40	-.670	---	-.543	---	-.483	---	-.470	---	-.487	---
	50	-.568	---	-.517	---	-.473	---	-.460	---	-.473	---
	60	-.450	-.034	-.488	-.018	-.470	-.017	-.460	-.017	-.470	-.017
	70	-.352	-.030	-.450	-.050	-.455	-.070	-.455	-.030	-.450	-.053
	80	-.212	-.018	-.433	-.082	-.445	-.110	-.433	-.115	-.432	-.115
	90	-.128	---	-.363	---	-.410	---	-.410	---	-.390	---
95	0	-.225	---	-.225	---	-.290	---	-.390	---	-.408	---
	5	-.460	---	-.397	---	-.300	---	-.315	---	-.305	---
	10	-.425	.170	-.298	.190	-.298	.209	-.288	.247	-.300	.270
	20	-.370	.039	-.275	.053	-.280	.068	-.280	.093	-.278	.113
	30	---	---	---	---	---	---	---	---	---	---
	40	-.280	-.043	-.237	-.058	-.220	-.052	-.260	-.058	-.280	-.053
	50	-.243	---	-.200	---	-.243	---	-.263	---	-.280	---
	60	-.198	-.032	-.183	-.055	-.214	-.032	-.257	-.070	-.255	-.065
	70	-.190	-.052	-.118	-.099	-.238	-.100	-.260	-.100	-.252	-.115
	80	-.178	-.028	-.200	-.068	-.220	-.082	-.252	-.093	-.270	-.108
	90	-.160	---	-.180	---	-.202	---	-.233	---	-.268	---

NACA

TABLE V.– CONTINUED

(c) M,0.70.

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
15	0	0.310	---	0.460	---	0.540	---	0.522	---	0.285	---
	5	---	---	---	---	---	---	---	---	---	---
	10	.148	-0.240	.060	-0.140	-.018	-0.040	-.095	0.045	-.225	0.138
	20	.075	-.232	-.010	-.163	-.072	-.078	-.135	-.020	-.247	.052
	30	.025	-.230	-.052	-.165	-.100	-.120	-.153	-.040	-.265	.025
	40	-.007	-.232	-.080	-.218	-.120	-.110	-.158	-.072	-.262	-.020
	50	-.040	---	-.102	---	-.142	---	-.180	---	-.260	---
	60	-.055	-.208	-.120	-.205	-.145	-.148	-.180	-.120	-.245	-.066
	70	---	-.210	---	-.189	---	-.129	---	-.101	---	-.073
	80	-.058	-.171	-.100	-.157	-.100	-.115	-.080	-.080	-.138	-.070
	90	-.030	---	-.065	---	-.070	---	-.073	---	-.118	---
35	0	.160	---	.301	---	.350	---	.225	---	-.108	---
	5	.210	---	.100	---	-.072	---	-.235	---	-.300	---
	10	.123	-.378	.040	-.258	-.082	-.125	-.190	-.008	-.378	.112
	20	.040	-.325	-.017	-.223	-.123	-.145	-.205	-.050	-.330	.035
	30	-.010	-.295	-.072	-.240	-.150	-.160	-.212	-.082	-.315	-.010
	40	-.040	---	-.092	---	-.155	---	-.203	---	-.290	---
	50	-.055	---	-.097	---	-.147	---	-.188	---	-.252	---
	60	-.065	-.175	-.032	-.142	-.070	-.118	-.100	-.078	---	-.042
	70	---	-.142	---	-.123	-.100	-.100	---	-.068	-.113	-.040
	80	---	-.078	---	-.060	---	-.040	---	-.012	---	-.013
	90	.028	---	.010	---	.008	---	.030	---	-.010	---
55	0	-.247	---	.170	---	.468	---	.452	---	.128	---
	5	---	---	---	---	---	---	---	---	---	---
	10	.128	-.408	.040	-.294	-.088	-.128	-.223	-.013	-.433	.102
	20	.038	-.335	-.027	-.240	-.115	-.135	-.212	-.061	-.355	.038
	30	-.010	-.263	-.070	-.202	-.145	-.084	-.205	-.073	-.317	-.002
	40	---	---	---	---	---	---	---	---	---	---
	50	-.060	---	-.090	---	-.134	---	-.188	---	-.245	---
	60	-.047	-.055	-.029	-.073	-.112	.012	-.140	.039	-.155	.038
	70	-.028	-.100	-.045	-.090	-.055	-.078	-.100	-.028	-.123	-.043
	80	-.005	-.050	-.005	-.040	-.018	-.015	-.010	-.005	-.060	-.005
	90	.040	.004	.034	.009	.030	.029	.020	.025	.002	.015
75	0	-.016	---	.329	---	.480	---	.395	---	-.050	---
	5	.204	---	.104	---	-.090	---	-.297	---	-.568	---
	10	.120	-.434	.035	-.295	-.100	-.143	-.223	-.010	-.434	.130
	20	.033	-.348	-.038	-.250	-.138	-.150	-.212	-.050	-.348	.050
	30	-.018	-.245	-.070	-.239	-.158	-.170	-.202	-.080	-.295	.002
	40	-.045	---	-.095	---	-.140	---	-.175	---	-.245	---
	50	-.060	---	-.100	---	-.148	---	-.167	---	-.212	---
	60	-.053	-.164	-.050	-.150	-.113	-.130	-.130	-.082	-.140	-.003
	70	-.045	-.103	-.050	-.103	-.065	-.088	-.097	-.050	-.075	-.020
	80	-.017	-.038	-.015	-.040	-.030	-.017	-.040	-.010	-.040	-.010
	90	.025	---	.035	---	.025	---	.025	---	.025	---
95	0	-.135	---	.230	---	.467	---	.403	---	.030	---
	5	.158	---	.049	---	-.127	---	-.324	---	-.565	---
	10	.041	---	-.008	-.283	-.139	-.122	-.242	-.002	-.400	.055
	20	-.060	---	-.098	-.208	-.143	-.143	-.187	-.110	-.259	-.055
	30	---	---	---	---	---	---	---	---	---	---
	40	-.086	---	-.102	-.172	-.102	-.138	-.133	-.128	-.158	-.128
	50	-.098	---	-.102	---	-.103	---	-.127	---	-.140	---
	60	-.054	---	-.075	-.048	-.048	-.050	-.068	-.062	-.080	-.062
	70	-.042	---	-.028	-.022	-.042	-.038	-.028	-.028	-.050	-.022
	80	.023	---	.032	.057	.052	.008	.010	.009	-.015	.014
	90	---	---	.033	---	.058	---	.053	---	.028	---

Percent semi-span	Percent chord	Angle of attack, degrees									
		6		8		10		12		14	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
15	0	-0.048	---	-0.300	---	-0.598	---	-0.800	---	-1.070	---
	5	---	---	---	---	---	---	---	---	---	---
	10	-.359	0.298	-.498	0.334	-.728	0.435	-.870	0.500	-1.005	0.575
	20	-.347	.159	-.450	.219	-.610	.312	-.705	.372	-.765	.439
	30	-.342	.114	-.429	.165	-.550	.243	-.620	.295	-.660	.360
	40	-.330	.065	-.404	.114	-.501	.182	-.540	.230	-.593	.290
	50	-.320	---	-.380	---	-.462	---	-.490	---	-.517	---
	60	-.277	.003	-.353	.043	-.411	.099	-.439	.132	-.483	.182
	70	---	-.018	---	.012	---	.068	---	.098	---	.138
	80	-.215	-.010	-.251	.002	-.283	.048	-.313	.069	-.345	.100
	90	-.140	---	-.152	---	-.168	---	-.192	---	-.223	---
35	0	-.385	---	-.522	---	-.768	---	-.860	---	-.860	---
	5	-.778	---	-.938	---	-1.235	---	-1.253	---	-1.140	---
	10	-.450	.213	-.855	.282	-1.223	.355	-1.179	.413	-1.345	.465
	20	-.530	.115	-.705	.178	-1.230	.242	-1.480	.298	-1.400	.350
	30	-.430	.060	-.610	.113	-1.180	.170	-1.418	.218	-1.338	.268
	40	-.375	---	-.493	---	-.933	---	-1.178	---	-1.222	---
	50	-.308	---	-.380	---	-.820	---	-.707	---	-1.040	---
	60	-.182	-.002	-.222	.025	-.108	.058	-.265	.088	-.730	.105
	70	-.140	-.012	-.120	.015	-.075	.038	-.170	.063	-.480	.065
	80	---	.008	---	.022	---	.040	---	.045	---	.040
	90	-.030	---	-.032	---	-.030	---	-.067	---	-.318	---
55	0	-.378	---	-.448	---	-.724	---	-.864	---	-1.025	---
	5	---	---	---	---	---	---	---	---	---	---
	10	-.883	.212	-1.054	.282	-.985	.349	-.872	.382	-.820	.420
	20	-.704	.126	-.975	.178	-.995	.239	-.852	.279	-.798	.308
	30	-.481	.063	-.808	.115	-.940	.160	-.840	.194	-.773	.218
	40	---	---	---	---	---	---	---	---	---	---
	50	-.260	---	-.367	---	-.815	---	-.828	---	-.762	---
	60	-.205	.005	-.238	.068	-.740	.100	-.789	.105	-.747	.085
	70	-.132	-.010	-.134	.008	-.608	.030	-.718	.010	-.718	-.016
	80	-.005	.020	-.065	.035	-.495	.020	-.658	.022	-.680	-.087
	90	0	.039	0	.053	-.395	.005	-.580	-.112	-.632	-.188
75	0	-.412	---	-.605	---	-.724	---	-.763	---	-.807	---
	5	-.928	---	-.895	---	-.762	---	-.670	---	-.665	---
	10	-.871	.118	-.870	.170	-.729	.228	-.665	.253	-.652	.285
	20	-.782	.020	-.845	.062	-.700	.112	-.632	.139	-.635	.168
	30	-.656	-.052	-.814	.012	-.674	.028	-.608	.045	-.610	.072
	40	-.537	---	-.756	---	-.637	---	-.598	---	-.588	---
	50	-.425	---	-.682	---	-.617	---	-.572	---	-.568	---
	60	-.322	-.125	-.599	-.135	-.599	-.135	-.562	-.150	-.562	-.125
	70	-.238	-.120	-.505	-.122	-.553	-.168	-.533	-.185	-.533	-.173
	80	-.158	-.100	-.387	-.114	-.538	-.202	-.540	-.227	-.525	-.227
	90	-.105	---	-.275	---	-.493	---	-.495	---	-.495	---
95	0	-.080	---	-.150	---	-.198	---	-.272	---	-.377	---
	5	-.534	---	-.450	---	-.340	---	-.320	---	-.314	---
	10	-.480	.102	-.422	.150	-.320	.188	-.302	.217	-.311	.244
	20	-.389	-.020	-.373	.018	-.297	.042	-.282	.053	-.297	.075
	30	---	---	---	---	---	---	---	---	---	---
	40	-.252	-.087	-.276	-.080	-.240	-.080	-.246	-.080	-.253	-.080
	50	-.215	---	-.235	---	-.222	---	-.248	---	-.278	---
	60	-.158	-.048	-.197	-.048	-.207	-.082	-.232	-.100	-.262	-.092
	70	-.136	-.054	-.189	-.072	-.227	-.115	-.253	-.151	-.279	-.136
	80	-.109	-.014	-.178	-.045	-.226	-.097	-.250	-.124	-.277	-.124
	90	-.080	---	-.168	---	-.215	---	-.239	---	-.269	---

NACA

TABLE V.– CONTINUED

(d) M,0.75.

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
15	0	0.340	---	0.500	---	0.540	---	0.524	---	0.360	---
	5	---	---	---	---	---	---	---	---	---	---
	10	.142	-0.242	.069	-0.160	.008	-0.085	-.100	0.047	-.218	0.124
	20	.078	-.233	.008	-.169	-.050	-.100	-.151	.032	-.236	.059
	30	.032	-.238	-.030	-.172	-.130	-.114	-.150	-.032	-.242	.017
	40	-.010	-.245	-.063	-.195	-.130	-.140	-.173	-.055	-.250	-.018
	50	-.042	---	-.089	---	-.125	---	-.185	---	-.268	---
	60	-.058	.238	-.105	-.200	-.127	-.158	-.178	-.097	-.248	-.060
	70	---	-.225	---	-.190	---	-.157	---	-.108	---	-.062
	80	-.059	-.181	-.090	-.160	-.113	-.132	-.142	-.083	-.190	-.058
	90	-.032	---	-.050	---	-.062	---	-.081	---	.120	---
35	0	.174	---	.110	---	.354	---	.210	---	.010	---
	5	.200	---	.088	---	.030	---	-.260	---	-.440	---
	10	.119	-.380	.038	-.258	-.050	-.150	-.205	-.010	-.330	.118
	20	.032	-.339	-.040	-.250	-.102	-.168	-.220	-.060	-.300	.036
	30	-.016	-.302	-.081	-.239	-.134	-.180	-.235	-.091	-.295	-.006
	40	-.046	---	-.106	---	-.141	---	-.226	---	-.269	---
	50	-.060	---	-.099	---	-.136	---	-.209	---	-.235	---
	60	-.010	-.183	-.041	-.155	-.060	-.123	-.115	-.085	-.121	-.090
	70	---	-.150	---	-.130	---	-.099	---	-.079	-.100	-.030
	80	---	-.072	---	-.071	---	-.050	---	-.032	---	.001
	90	.028	---	.015	---	.019	---	-.001	---	.013	---
55	0	-.173	---	.199	---	.420	---	.457	---	.213	---
	5	---	---	---	---	---	---	---	---	---	---
	10	.127	-.416	.025	-.299	-.067	-.181	-.225	-.005	-.390	.101
	20	.033	-.338	-.042	-.258	-.116	-.172	-.213	-.041	-.330	.032
	30	-.004	-.267	-.087	-.215	-.140	-.152	-.207	-.050	-.297	.019
	40	---	---	---	---	---	---	---	---	---	---
	50	-.049	---	-.102	---	-.130	---	-.170	---	-.226	---
	60	0	-.037	-.090	-.027	-.108	-.089	-.135	.040	-.179	.047
	70	-.021	-.110	-.050	-.110	-.056	-.080	-.113	-.010	-.110	-.021
	80	.001	-.036	-.020	-.040	-.020	-.020	-.040	.011	-.038	.032
	90	.032	.030	.030	.040	.035	.032	.034	.039	.039	.068
75	0	.046	---	.360	---	.488	---	.379	---	.032	---
	5	.194	---	.094	---	-.031	---	-.307	---	-.540	---
	10	.118	-.445	.036	-.288	-.057	-.158	-.212	0	-.409	.120
	20	.032	-.349	-.042	-.250	-.099	-.155	-.222	-.043	-.328	.040
	30	-.021	-.294	-.080	-.234	-.123	-.172	-.211	-.082	-.289	-.015
	40	-.039	---	-.080	---	-.080	---	-.182	---	-.235	---
	50	-.073	---	-.100	---	-.120	---	-.175	---	-.200	---
	60	-.052	-.160	-.080	-.147	-.090	-.119	-.120	-.080	-.140	-.055
	70	-.041	-.092	-.053	-.092	-.067	-.052	-.092	-.040	-.080	-.032
	80	-.009	-.030	-.019	-.038	-.030	-.019	-.037	-.009	-.020	.009
	90	.034	---	.033	---	.040	---	.033	---	.040	---
95	0	-.073	---	.260	---	.455	---	.402	---	.109	---
	5	.154	---	.040	---	-.082	---	-.330	---	-.591	---
	10	.042	-.397	-.038	-.263	-.115	-.188	-.247	---	-.378	.060
	20	-.068	-.230	-.106	-.192	-.129	-.159	-.189	---	-.240	-.050
	30	---	---	---	---	---	---	---	---	---	---
	40	-.082	-.180	-.100	-.153	-.120	-.100	-.120	---	-.153	-.095
	50	-.090	---	-.105	---	-.100	---	-.109	---	-.138	---
	60	-.050	-.063	-.052	-.042	-.045	-.048	-.042	---	-.068	-.032
	70	-.035	-.030	-.039	-.035	-.023	-.022	-.028	---	-.042	-.027
	80	0	.013	.013	.038	-.032	.022	-.022	---	.010	.032
	90	.035	---	.060	---	.050	---	---	---	.055	---

Percent semi-span	Percent chord	Angle of attack, degrees							
		6		8		10		12	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
15	0	0.048	---	-0.170	---	-0.400	---	-0.608	---
	5	---	---	---	---	---	---	---	---
	10	-.361	0.240	-.489	0.325	-.670	0.430	.817	0.510
	20	-.350	.160	-.450	.239	-.581	.320	-.711	.390
	30	-.349	.110	-.440	.170	-.540	.250	-.635	.310
	40	-.340	.065	-.401	.120	-.499	.198	-.545	.249
	50	-.335	---	-.390	---	-.460	---	-.490	---
	60	-.311	.009	-.362	.049	-.410	.112	-.450	.150
	70	---	-.020	---	.020	---	.073	---	.110
	80	-.229	-.019	-.259	.018	-.270	.062	-.330	.085
	90	-.146	---	-.169	---	-.160	---	-.200	---
35	0	-.270	---	-.430	---	-.636	---	-.749	---
	5	-.759	---	-.898	---	-1.179	---	-1.309	---
	10	-.641	.211	-.831	.278	-1.160	.362	-1.316	.412
	20	-.500	.111	-.671	.174	-1.170	.242	-1.384	.269
	30	-.430	.059	-.584	.109	-1.136	.179	-1.328	.219
	40	-.386	---	-.498	---	-.897	---	-1.160	---
	50	-.318	---	-.400	---	-.447	---	-.820	---
	60	-.185	.001	-.231	.023	-.123	.067	-.458	.082
	70	-.130	-.009	-.166	.018	-.080	.040	-.870	.050
	80	---	.012	---	.040	---	.040	---	.045
	90	-.021	---	-.057	---	-.026	---	-.110	---
55	0	-.061	---	-.340	---	-.620	---	-.790	---
	5	---	---	---	---	---	---	---	---
	10	-.818	.222	-1.030	.284	-.988	.340	-.861	.392
	20	-.679	.142	-.967	.181	-.951	.232	-.835	.289
	30	-.489	.085	-.830	.121	-.926	.160	-.816	.201
	40	---	---	---	---	---	---	---	---
	50	-.240	---	-.352	---	-.781	---	-.761	---
	60	-.120	.099	-.170	.105	-.693	.089	-.789	.110
	70	-.110	.004	-.075	.020	-.571	.023	-.676	.021
	80	-.049	.030	-.030	.032	-.475	.020	-.631	-.031
	90	.020	.060	.031	.031	-.354	.010	-.569	-.110
75	0	-.221	---	-.433	---	-.562	---	-.640	---
	5	-.760	---	-.769	---	-.647	---	-.570	---
	10	-.715	.230	-.742	.272	-.618	.330	-.557	.355
	20	-.642	.135	-.720	.166	-.581	.213	-.527	.233
	30	-.550	.080	-.690	.091	-.550	.131	-.508	.142
	40	-.488	---	-.640	---	-.518	---	-.481	---
	50	-.314	---	-.586	---	-.497	---	-.470	---
	60	-.205	-.006	-.503	-.005	-.471	-.086	-.460	-.054
	70	-.120	0	-.425	.002	-.438	-.052	-.438	-.098
	80	-.041	.023	-.308	.022	-.418	-.090	-.432	-.133
	90	.028	---	-.190	---	-.369	---	-.391	---
95	0	-.040	---	-.112	---	-.159	---	-.240	---
	5	-.518	---	-.433	---	-.317	---	-.292	---
	10	-.472	.121	-.409	.172	-.300	.190	-.282	.228
	20	-.389	-.018	-.354	.020	-.272	.032	-.259	.062
	30	---	---	---	---	---	---	---	---
	40	-.250	-.078	-.258	-.083	-.217	-.077	-.250	-.085
	50	-.210	---	-.220	---	-.199	---	-.232	---
	60	-.153	-.050	-.180	-.040	-.180	-.080	-.245	-.097
	70	-.138	-.050	-.180	-.070	-.200	-.115	-.261	-.139
	80	-.103	-.003	-.172	-.042	-.202	-.088	-.254	-.114
	90	-.079	---	-.174	---	-.206	---	-.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	---	0.520	---	0.570	---	0.515	---	0.400	---	0.140	---	0.098	---	0.292	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.130	-0.220	.055	-0.135	-.040	-0.035	-.150	0.057	-.210	0.160	-.350	0.259	-.520	0.353	-.682	0.435
	20	.060	-.210	.010	-.148	-.041	-.070	-.162	.007	-.218	.024	-.341	.170	-.478	.250	-.622	.320
	30	.031	-.216	-.031	-.180	-.069	-.110	-.189	-.038	-.232	.045	-.347	.115	-.478	.186	-.573	.240
	40	0	-.240	-.061	-.192	-.117	-.130	-.205	-.070	-.248	.010	-.345	.072	-.450	.138	-.587	.188
	50	-.041	---	-.091	---	-.139	---	-.224	---	-.260	---	-.349	---	-.440	---	-.551	---
	60	-.055	-.239	-.109	-.202	-.150	-.152	-.200	-.102	-.253	-.017	-.334	.008	-.419	.060	-.518	.108
	70	---	-.210	---	-.208	---	-.161	---	-.128	---	-.067	---	.025	---	.020	---	.055
	80	-.051	-.180	-.095	-.168	-.125	-.131	-.165	-.107	-.188	-.048	-.239	-.018	-.283	.020	-.308	.048
	90	-.005	---	-.060	---	-.071	---	-.112	---	-.108	---	-.142	---	-.167	---	-.183	---
35	0	.215	---	.324	---	.358	---	.215	---	.025	---	-.195	---	-.380	---	-.509	---
	5	.200	---	.076	---	-.055	---	-.282	---	-.463	---	-.760	---	-.984	---	-1.228	---
	10	.120	-.362	.020	-.272	-.072	-.140	-.221	.010	-.350	.117	-.645	.207	-.910	.292	-1.198	.370
	20	.070	-.332	-.051	-.272	-.183	-.160	-.235	-.053	-.322	.032	-.515	.102	-.815	.178	-1.168	.254
	30	-.008	-.300	-.098	-.265	-.158	-.172	-.250	-.088	-.318	-.010	-.450	.052	-.700	.120	-1.077	.182
	40	-.040	---	-.112	---	-.165	---	-.237	---	-.298	---	-.400	---	-.599	---	-.892	---
	50	-.057	---	-.121	---	-.160	---	-.227	---	-.262	---	-.334	---	-.427	---	-.610	---
	60	-.008	-.178	-.060	-.178	-.080	-.125	-.135	-.087	-.140	-.032	-.198	-.004	-.243	.040	-.234	.080
	70	---	-.140	---	-.145	---	-.105	---	-.105	-.123	-.032	-.150	-.015	-.168	.020	-.093	.050
	80	---	-.070	---	-.080	---	-.055	---	-.035	---	-.002	---	.008	---	.030	---	.049
	90	.083	---	0	---	.003	---	.002	---	.005	---	-.023	---	-.045	---	-.015	---
55	0	-.092	---	.210	---	.444	---	.435	---	.205	---	-.027	---	-.332	---	-.558	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.090	-.440	.020	-.322	-.097	-.186	-.270	-.007	-.453	.090	-.868	.202	-1.108	.278	-.986	.345
	20	.008	-.373	-.053	-.282	-.130	-.180	-.258	-.053	-.378	.017	-.717	.117	1.068	.180	-.950	.239
	30	-.038	-.300	-.083	-.243	-.150	-.165	-.248	-.088	-.338	-.018	-.537	.102	-.985	.118	-.920	.168
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.088	---	-.118	---	-.147	---	-.208	---	-.263	---	-.258	---	-.538	---	-.845	---
	60	-.080	-.122	-.102	-.042	-.120	-.022	-.168	.018	-.205	.004	-.195	.095	-.278	.106	-.762	.088
	70	-.024	-.145	-.068	-.113	-.055	-.101	-.073	-.072	-.137	-.057	-.120	-.002	-.105	.015	-.619	.018
	80	.010	-.090	-.052	-.092	-.018	-.068	-.048	-.058	-.075	-.020	-.060	.023	-.036	.021	-.522	.008
	90	.048	.003	.018	.004	.028	.018	.004	.038	-.007	.012	.010	.044	.012	.021	.192	-.022
75	0	.113	---	.370	---	.490	---	.358	---	.050	---	-.190	---	-.422	---	-.565	---
	5	.178	---	.100	---	-.063	---	-.358	---	-.593	---	-.830	---	-.750	---	-.642	---
	10	.119	-.437	.040	-.295	-.080	-.150	-.260	.009	-.450	.130	-.778	.210	-.728	.280	-.621	.323
	20	.025	-.350	-.032	-.252	-.120	-.148	-.243	-.040	-.352	.052	-.692	.113	-.700	.178	-.590	.203
	30	-.022	-.296	-.073	-.242	-.140	-.173	-.235	-.088	-.308	-.010	-.586	.046	-.673	.099	-.557	.137
	40	-.040	---	-.089	---	-.050	---	-.201	---	-.247	---	-.472	---	-.650	---	-.538	---
	50	-.070	---	-.100	---	-.138	---	-.198	---	-.214	---	-.368	---	-.618	---	-.513	---
	60	-.057	-.153	-.073	-.136	-.123	0	-.135	-.090	-.142	-.050	-.264	-.032	-.565	-.009	-.494	-.050
	70	-.036	-.092	-.056	-.086	-.063	-.060	-.088	-.035	-.083	-.025	-.169	-.013	-.500	-.032	-.457	-.088
	80	-.004	-.025	-.005	-.017	-.005	-.025	-.015	-.010	-.018	0	-.071	0	-.422	-.008	-.449	-.125
	90	.038	---	.035	---	.043	---	.035	---	.041	---	0	---	-.325	---	-.411	---
95	0	.002	---	.266	---	.460	---	.375	---	.100	---	-.010	---	-.113	---	-.190	---
	5	.152	---	.044	---	.113	---	.397	---	.612	---	.534	---	-.404	---	-.330	---
	10	.040	-.368	-.035	-.270	-.141	-.159	-.289	-.012	-.420	.070	-.476	.132	-.380	.191	-.315	.209
	20	-.065	-.206	-.109	-.179	-.153	-.141	-.214	-.079	-.248	-.050	-.383	-.010	-.338	.032	-.292	.048
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.070	-.147	-.098	-.145	-.117	-.142	-.145	-.142	-.160	-.095	-.240	-.075	-.250	-.080	-.240	-.070
	50	-.075	---	-.098	---	-.109	---	-.128	---	-.130	---	-.202	---	-.224	---	-.229	---
	60	-.030	-.042	-.042	-.090	-.060	-.024	-.060	-.021	-.065	-.025	-.142	-.025	-.182	-.042	-.217	-.080
	70	-.019	-.001	-.029	-.012	-.010	-.001	-.037	-.001	-.040	-.023	-.130	-.040	-.190	-.070	-.238	-.120
	80	.021	.048	.015	.050	.014	.058	.022	.059	.011	.035	-.099	.010	-.196	-.041	-.239	-.091
	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	---	0.525	---	0.570	---	0.555	---	0.390	---	0.130	---	-0.049	---	-0.166	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.135	-0.232	.070	-0.165	-.013	-0.062	-.100	0.047	-.230	0.151	-.400	0.240	-.515	0.348	-.630	0.391
	20	.075	-.210	.002	-.168	-.080	-.095	-.141	.002	-.240	.100	-.380	.155	-.470	.251	-.560	.290
	30	.025	-.238	-.025	-.195	-.101	-.123	-.152	-.032	-.245	.050	-.381	.100	-.460	.190	-.514	.232
	40	-.005	-.247	-.060	-.202	-.131	-.140	-.180	-.060	-.278	.011	-.381	.056	-.450	.140	-.542	.170
	50	-.050	---	-.090	---	-.160	---	-.192	---	-.279	---	-.391	---	-.440	---	-.530	---
	60	-.060	-.257	-.110	-.221	-.170	-.175	-.200	-.102	-.270	-.040	-.379	-.010	-.440	.057	-.529	.080
	70	---	-.268	---	-.242	---	-.198	---	-.132	---	-.050	---	-.052	---	.005	---	.010
	80	-.070	-.205	-.105	-.185	-.147	-.162	-.154	-.097	-.210	-.055	-.281	-.035	-.290	.019	-.319	.032
	90	-.035	---	-.063	---	-.095	---	-.095	---	-.129	---	-.185	---	-.172	---	-.188	---
35	0	.211	---	.329	---	.352	---	.250	---	.031	---	-.227	---	-.323	---	-.412	---
	5	.180	---	.098	---	-.079	---	-.232	---	-.480	---	-.780	---	-.970	---	-1.150	---
	10	.099	-.370	.030	-.281	-.096	-.148	-.192	0	-.367	.111	-.668	.220	-.963	.302	-1.128	.334
	20	.019	-.350	-.045	-.279	-.145	-.175	-.214	-.052	-.338	.059	-.510	.110	-.809	.179	-1.074	.210
	30	-.031	-.318	-.089	-.269	-.180	-.190	-.230	-.089	-.331	0	-.462	.071	-.693	.130	-.999	.158
	40	-.058	---	-.110	---	-.190	---	-.228	---	-.310	---	-.420	---	-.556	---	-.778	---
	50	-.080	---	-.118	---	-.180	---	-.210	---	-.270	---	-.350	---	-.418	---	-.510	---
	60	-.025	.207	-.050	-.186	-.093	-.150	-.110	-.080	-.148	-.029	-.192	.009	-.225	.050	-.257	.063
	70	---	-.161	---	-.143	---	-.110	---	-.052	---	-.010	---	0	---	.026	---	.019
	80	---	-.082	---	-.086	---	-.061	---	-.021	---	.008	---	.019	---	.040	---	.041
	90	.022	---	.009	---	.001	---	.016	---	.011	---	-.018	---	-.029	---	-.018	---
55	0	-.007	---	.208	---	.454	---	.448	---	.230	---	-.030	---	-.270	---	-.425	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.110	-.402	.027	-.341	-.110	-.172	-.248	-.035	-.460	.120	-.692	.216	-1.100	.288	-1.073	.315
	20	.020	-.343	-.043	-.289	-.149	-.170	-.248	-.078	-.369	.050	-.810	.130	-1.060	.192	-1.094	.212
	30	-.020	-.272	-.077	-.238	-.170	-.154	-.245	-.083	-.330	.014	-.592	.072	-.966	.138	-1.067	.148
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.064	---	-.104	---	-.160	---	-.202	---	-.242	---	-.260	---	-.502	---	-.908	---
	60	-.053	-.029	-.090	-.029	-.132	-.010	-.168	-.029	-.183	-.037	-.192	-.073	-.253	.102	-.738	.115
	70	-.023	-.115	-.060	-.115	-.080	-.080	-.113	-.005	-.108	-.029	-.111	-.002	-.090	.020	-.482	.020
	80	0	-.040	-.025	-.050	-.040	-.025	-.050	-.040	-.061	-.008	-.078	.010	-.082	.042	-.271	.027
	90	.045	.028	.018	.018	.037	.025	.018	.018	.024	.050	.018	.050	.038	.061	-.040	.050
75	0	.137	---	.348	---	.488	---	.399	---	.056	---	-.175	---	-.383	---	-.493	---
	5	.131	---	.100	---	.021	---	.117	---	-.612	---	-.792	---	-.748	---	-.660	---
	10	.088	-.445	.035	-.330	-.105	-.150	-.232	-.012	-.478	.137	-.753	.233	-.722	.279	-.653	.312
	20	.004	-.370	-.019	-.260	-.144	-.151	-.247	-.057	-.368	.062	-.702	.133	-.690	.174	-.623	.212
	30	-.045	-.312	-.063	-.270	-.161	-.178	-.218	-.102	-.310	0	-.530	.064	-.669	.095	-.594	.125
	40	-.062	---	-.091	---	-.150	---	-.204	---	-.255	---	-.535	---	-.649	---	-.567	---
	50	-.093	---	-.119	---	-.158	---	-.195	---	-.210	---	-.423	---	-.611	---	-.545	---
	60	-.072	-.172	-.088	-.158	-.100	-.140	-.172	-.088	-.140	-.050	-.310	-.020	-.560	-.010	-.521	-.012
	70	-.058	-.102	-.069	-.099	-.065	-.100	-.088	-.065	-.074	-.033	-.180	-.010	-.490	-.010	-.467	-.045
	80	-.020	-.038	-.020	-.032	-.020	-.032	-.030	-.020	-.015	.002	-.080	.017	-.419	.017	-.462	-.015
	90	.030	---	.025	---	.030	---	.028	---	.042	---	.005	---	-.319	---	-.413	---
95	0	.018	---	.242	---	.454	---	.411	---	.100	---	-.002	---	-.098	---	-.148	---
	5	.119	---	.058	---	-.140	---	-.348	---	-.628	---	-.498	---	-.398	---	-.347	---
	10	.011	-.417	-.038	-.326	-.160	-.186	-.267	-.052	-.452	.070	-.493	.130	-.376	.172	-.332	.197
	20	-.058	-.240	-.115	-.225	-.164	-.225	-.197	-.118	-.260	-.053	-.381	-.027	-.330	.020	-.297	.028
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.110	-.180	-.090	-.174	-.142	-.150	-.180	-.122	-.160	-.101	-.250	-.095	-.255	-.088	-.238	-.097
	50	-.104	---	-.100	---	-.116	---	-.105	---	-.132	---	-.208	---	-.222	---	-.222	---
	60	-.055	-.042	-.050	-.042	-.090	-.060	-.069	-.050	-.068	-.032	-.157	-.042	-.180	-.063	-.201	-.099
	70	-.040	-.042	-.030	-.045	-.030	-.020	-.020	-.020	-.047	-.020	-.137	-.055	-.190	-.090	-.225	-.125
	80	.000	.032	.020	.028	.010	.037	.035	.015	.000	.030	-.113	-.012	-.200	-.065	-.230	-.222
	90	.050	---	.050	---	.069	---	.075	---	.052	---	-.100	---	-.201	---	-.224	---

NACA

TABLE V.– 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	8 Upper surface	8 Lower surface	9 Upper surface	9 Lower surface
15	0	0.415	---	0.540	---	0.592	---	0.565	---	0.440	---	0.240	---	0.048	---	-0.055	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.129	-0.255	.070	-0.139	-.010	-0.025	-.100	0.050	-.195	0.175	-.312	0.258	-.448	0.368	-.540	0.410
	20	.075	-.226	.019	-.150	-.045	-.050	-.115	.010	-.200	.122	-.298	.178	-.409	.270	-.483	.313
	30	.025	-.240	-.010	-.165	-.079	-.065	-.145	-.015	-.213	.087	-.315	.134	-.407	.218	-.452	.255
	40	0	-.255	-.050	-.190	-.099	-.100	-.160	-.050	-.225	.040	-.315	.080	-.399	.163	-.458	.202
	50	-.040	---	-.082	---	-.120	---	-.180	---	-.240	---	-.323	---	-.398	---	-.450	---
	60	-.050	-.270	-.098	-.212	-.139	-.125	-.190	-.095	-.242	-.010	-.330	.014	-.418	.080	-.480	.114
	70	---	-.265	---	-.230	---	-.159	---	-.122	---	-.054	---	-.030	---	.040	---	.058
	80	-.061	-.210	-.090	-.178	-.110	-.110	-.155	-.090	-.180	-.025	-.240	-.008	-.262	.048	-.307	.068
	90	-.040	---	-.052	---	-.060	---	-.085	---	-.095	---	-.135	---	-.130	---	-.132	---
35	0	.225	---	.330	---	.370	---	.262	---	.039	---	-.108	---	-.278	---	-.363	---
	5	.203	---	.095	---	-.070	---	-.230	---	-.472	---	-.708	---	-.950	---	-1.110	---
	10	.122	-.398	.033	-.290	-.084	-.122	-.185	-.007	-.375	.105	-.593	.210	-.887	.284	-1.073	.393
	20	.037	-.377	-.040	-.285	-.130	-.152	-.213	-.062	-.357	.012	-.490	.099	-.784	.162	-1.089	.194
	30	-.020	-.335	-.090	-.276	-.167	-.157	-.241	-.090	-.357	-.020	-.457	.054	-.707	.113	-.948	.147
	40	-.050	---	-.112	---	-.173	---	-.234	---	-.340	---	-.420	---	-.612	---	-.829	---
	50	-.068	---	-.115	---	-.168	---	-.215	---	-.301	---	-.346	---	-.452	---	-.610	---
	60	-.012	-.204	-.048	.182	-.080	-.134	-.114	-.085	-.170	-.053	-.178	.002	-.233	.033	-.270	.040
	70	---	-.160	---	-.142	---	-.117	---	-.073	---	-.055	---	-.007	---	.083	---	.083
	80	---	-.073	---	-.073	---	-.047	---	-.028	---	-.025	---	.022	---	.032	---	.036
	90	.028	---	.012	---	.012	---	.018	---	-.008	---	-.012	---	-.026	---	-.018	---
55	0	-.067	---	.193	---	.455	---	.433	---	.212	---	.008	---	-.206	---	-.368	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.100	-.482	.004	-.380	-.136	-.191	-.285	-.073	-.505	.068	-.877	.160	-1.120	.274	-1.135	.295
	20	.018	-.410	-.063	-.321	-.176	-.190	-.284	-.108	-.432	-.004	-.719	.070	-1.032	.178	-1.093	.173
	30	-.031	-.329	-.100	-.272	-.198	-.175	-.281	-.113	-.393	-.042	-.555	.019	-.919	.112	-1.068	.125
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.082	---	-.132	---	-.183	---	-.247	---	-.300	---	-.316	---	-.468	---	-.828	---
	60	-.080	-.054	-.118	-.093	-.160	-.084	-.205	-.014	-.245	.008	-.257	.034	-.258	.098	-.678	.086
	70	-.050	-.145	-.082	-.145	-.100	-.112	-.150	-.100	-.165	-.080	-.157	-.050	-.110	.012	-.468	-.005
	80	-.029	-.057	-.050	-.073	-.050	-.072	-.085	-.055	-.098	-.048	-.098	-.083	-.047	.028	-.308	.003
	90	.013	.005	.005	-.002	.008	.015	-.020	.005	-.028	-.008	-.028	.010	-.085	.045	-.150	.018
75	0	.130	---	.363	---	.506	---	.420	---	.080	---	-.128	---	-.333	---	-.440	---
	5	.211	---	.118	---	-.074	---	-.287	---	-.632	---	-.804	---	-.768	---	-.692	---
	10	.129	-.465	.054	-.322	-.080	-.122	-.219	-.001	-.478	.131	-.739	.215	-.722	.275	-.662	.298
	20	.039	-.370	-.022	-.268	-.120	-.128	-.218	-.040	-.370	.058	-.660	.104	-.699	.178	-.687	.188
	30	-.026	-.312	-.070	-.265	-.132	-.145	-.221	-.065	-.325	-.010	-.573	.036	-.669	.098	-.597	.108
	40	-.041	---	-.077	---	-.125	---	-.184	---	-.266	---	-.457	---	-.632	---	-.579	---
	50	-.078	---	-.103	---	-.128	---	-.178	---	-.220	---	-.360	---	-.587	---	-.560	---
	60	-.056	-.151	-.070	-.140	-.090	-.106	-.115	.070	-.144	-.058	-.255	-.035	-.522	-.009	-.528	-.035
	70	-.032	-.085	-.050	-.082	-.062	.085	-.060	-.043	-.067	-.035	-.153	-.015	-.458	-.030	-.464	-.070
	80	0	-.015	0	-.015	.007	0	-.005	0	-.020	0	-.068	0	-.382	-.002	-.460	-.094
	90	.040	---	.040	---	.058	---	.050	---	.045	---	.008	---	-.278	---	-.412	---
95	0	.002	---	.252	---	.481	---	.419	---	.122	---	.020	---	-.074	---	-.125	---
	5	.172	---	.068	---	-.119	---	-.334	---	-.642	---	-.570	---	-.406	---	-.348	---
	10	.050	-.459	-.028	-.326	-.142	-.157	-.262	-.045	-.463	.062	-.492	.115	-.379	.183	-.340	.190
	20	-.072	-.251	-.109	-.209	-.142	-.140	-.187	-.109	-.258	-.065	-.382	-.035	-.334	.014	-.297	.022
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.082	-.184	-.092	-.163	-.081	-.162	-.120	-.122	-.161	-.105	-.232	-.082	-.258	-.100	-.239	-.100
	50	-.092	---	-.092	---	-.092	---	-.109	---	-.130	---	-.190	---	-.221	---	-.225	---
	60	-.034	-.063	-.047	-.047	-.021	-.026	-.034	-.022	-.068	-.033	-.132	-.035	-.187	-.050	-.199	-.090
	70	-.023	-.040	-.042	-.025	-.007	-.021	-.009	-.001	-.038	-.026	-.117	-.050	-.185	-.088	-.221	-.126
	80	.020	.020	.020	.026	.053	.046	.028	.062	.010	.030	-.079	-.002	-.159	-.050	-.225	-.105
	90	.050	---	.069	---	.090	---	.100	---	.044	---	-.062	---	-.198	---	-.222	---

(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	8 Upper surface	8 Lower surface
15	0	0.470	---	0.592	---	0.592	---	0.570	---	0.455	---	0.241	---	0.050	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.112	-0.185	.067	-0.159	-.012	-0.038	-.095	0.045	-.190	0.160	-.359	0.218	-.450	0.355
	20	.073	-.168	.003	-.148	-.058	-.058	-.122	.012	-.210	.073	-.351	.140	-.438	.252
	30	.018	-.190	-.018	-.165	-.090	-.082	-.155	-.018	-.230	.071	-.379	.099	-.430	.210
	40	-.008	-.212	-.045	-.190	-.108	-.115	-.175	-.055	-.240	.030	-.368	.050	-.489	.155
	50	-.052	---	-.073	---	-.134	---	-.195	---	-.258	---	-.350	---	-.480	---
	60	-.065	-.241	-.090	-.220	-.152	-.150	-.208	-.100	-.262	-.025	-.410	-.030	-.460	.078
	70	---	-.262	---	-.251	---	-.180	---	-.142	---	-.070	---	-.075	---	.020
	80	-.068	-.193	-.092	-.185	-.134	-.140	-.174	-.100	-.205	-.040	-.280	-.050	-.400	.030
	90	-.030	---	-.054	---	-.077	---	-.097	---	-.110	---	-.182	---	-.170	---
35	0	.270	---	.350	---	.378	---	.261	---	.108	---	-.090	---	-.238	---
	5	.154	---	.101	---	-.060	---	-.232	---	-.434	---	-.719	---	-.966	---
	10	.088	-.309	.040	-.271	-.078	-.130	-.190	-.013	-.345	.180	-.601	.199	-.895	.298
	20	.009	-.321	-.039	-.290	-.130	-.160	-.224	-.071	-.340	.020	-.498	.079	-.809	.178
	30	-.031	-.289	-.081	-.271	-.170	-.178	-.252	-.099	-.352	-.018	-.481	.039	-.708	.131
	40	-.062	---	-.101	---	-.181	---	-.258	---	-.340	---	-.479	---	-.682	---
	50	-.080	---	-.110	---	-.181	---	-.238	---	-.300	---	-.414	---	-.549	---
	60	-.020	-.188	-.043	-.179	-.082	-.148	-.128	-.100	-.159	-.039	-.205	-.017	-.258	.045
	70	---	-.140	---	-.100	---	-.091	---	-.084	---	-.040	---	-.024	---	.030
	80	---	-.068	---	-.068	---	-.049	---	-.037	---	-.008	---	0	---	.040
	90	.030	---	.012	---	.011	---	.001	---	.010	---	-.022	---	-.009	---
55	0	.111	---	.230	---	.459	---	.470	---	.279	---	.068	---	-.174	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.078	-.329	.030	-.339	-.106	-.170	-.236	-.023	-.460	.108	-.770	.180	-1.109	.269
	20	-.001	-.330	-.039	-.291	-.140	-.171	-.242	-.052	-.382	.036	-.589	.099	-1.000	.191
	30	-.040	-.252	-.078	-.241	-.161	-.158	-.239	-.070	-.341	.005	-.453	.049	-.840	.117
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.079	---	-.100	---	-.155	---	-.199	---	-.250	---	-.281	---	-.470	---
	60	-.067	-.018	-.090	-.010	-.130	-.003	-.155	.034	-.190	.060	-.215	.070	-.320	.100
	70	-.030	-.105	-.056	-.118	-.077	-.090	-.098	-.058	-.102	-.035	-.133	-.015	-.191	.017
	80	.001	-.031	-.020	-.045	-.020	.001	-.037	-.009	-.045	.010	-.068	.023	-.109	.010
	90	.042	.030	.031	.027	.032	.030	.029	.042	.029	.042	.001	.042	-.033	.041
75	0	.223	---	.365	---	.503	---	.408	---	.117	---	-.132	---	-.312	---
	5	.112	---	.109	---	-.060	---	-.302	---	-.675	---	-.998	---	-.796	---
	10	.066	-.390	.045	-.319	-.091	-.150	-.242	-.012	-.450	.130	-.862	.194	-.732	.294
	20	-.002	-.323	-.010	-.278	-.130	-.154	-.243	-.055	-.363	.057	-.611	.101	-.677	.189
	30	-.057	-.276	-.065	-.261	-.160	-.178	-.252	-.100	-.320	-.010	-.520	.028	-.650	.109
	40	-.068	---	-.052	---	-.142	---	-.210	---	-.256	---	-.417	---	-.615	---
	50	-.091	---	-.142	---	-.150	---	-.199	---	-.218	---	-.389	---	-.566	---
	60	-.065	-.140	-.080	-.148	-.109	-.129	-.137	-.100	-.137	-.055	-.225	-.052	-.511	0
	70	-.030	-.072	-.015	-.082	-.055	-.068	-.078	-.068	-.068	-.038	-.124	-.042	-.430	-.011
	80	-.008	-.008	0	-.015	-.008	-.016	-.010	-.010	-.010	-.010	-.050	.007	-.363	-.050
	90	.040	---	.040	---	.045	---	.042	---	.050	---	.019	---	-.263	---
95	0	.126	---	.262	---	.487	---	.408	---	.154	---	-.010	---	-.074	---
	5	.109	---	.076	---	-.119	---	-.351	---	-.697	---	-.682	---	-.420	---
	10	.012	-.359	-.021	-.315	-.140	-.179	-.285	-.052	-.460	.062	-.576	.112	-.382	.188
	20	-.089	-.200	-.110	-.200	-.142	-.158	-.202	-.121	-.235	-.073	-.453	-.057	-.342	.020
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.081	-.155	-.099	-.152	-.090	-.133	-.127	-.117	-.147	-.103	-.273	-.127	-.250	-.088
	50	-.079	---	-.089	---	-.079	---	-.122	---	-.122	---	-.219	---	-.220	---
	60	-.022	-.039	-.039	-.039	-.016	-.024	-.050	-.028	-.050	-.028	-.150	-.050	-.180	-.050
	70	-.012	-.013	-.022	-.022	.000	.000	-.010	-.010	-.028	-.014	-.141	-.058	-.189	-.082
	80	.040	.048	.036	.040	.054	.060	.047	.050	.026	.038	-.098	.001	-.184	-.050
	90	.075	---	.073	---	.098	---	.090	---	.053	---	-.079	---	-.187	---

NACA

TABLE V.– CONTINUED

(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	8 Upper surface	8 Lower surface
15	0	0.480	---	0.570	---	0.609	---	0.592	---	0.460	---	0.268	---	0.125	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.135	-0.150	.090	-0.135	-.010	-0.019	-.082	0.067	-.200	0.160	-.132	0.262	-.440	0.350
	20	.080	-.180	.095	-.130	-.060	-.040	-.118	.024	-.222	.095	-.325	.190	-.428	.264
	30	.030	-.209	-.019	-.155	-.099	-.082	-.149	-.035	-.252	.041	-.345	.110	-.422	.183
	40	.010	-.221	-.055	-.182	-.110	-.100	-.160	-.042	-.255	.020	-.332	.088	-.420	.150
	50	-.040	---	-.071	---	-.142	---	-.185	---	-.272	---	-.350	---	-.422	---
	60	-.060	-.267	-.092	-.239	-.160	-.155	-.202	-.100	-.300	-.040	-.390	.017	-.460	.063
	70	---	-.300	---	-.260	---	-.189	---	-.140	---	-.090	---	-.038	---	.010
	80	-.060	-.230	-.099	-.200	-.147	-.145	-.180	-.100	-.260	-.068	-.390	-.015	-.488	.029
	90	-.032	---	-.092	---	-.085	---	-.100	---	-.134	---	-.192	---	-.314	---
35	0	.268	---	.355	---	.373	---	.270	---	.095	---	-.008	---	-.076	---
	5	.173	---	.097	---	-.082	---	-.233	---	-.451	---	-.743	---	-1.029	---
	10	.093	-.338	.037	-.280	-.092	-.112	-.190	-.016	-.353	.114	-.688	.217	-.930	.282
	20	.012	-.363	-.042	-.298	-.148	-.132	-.232	-.075	-.352	.007	-.508	.092	-.803	.153
	30	-.037	-.326	-.096	-.286	-.172	-.190	-.265	-.107	-.370	-.025	-.495	.059	-.678	.134
	40	-.068	---	-.122	---	-.207	---	-.280	---	-.393	---	-.505	---	-.605	---
	50	-.085	---	-.125	---	-.195	---	-.250	---	-.364	---	-.485	---	-.564	---
	60	-.095	-.212	-.054	-.158	-.100	-.145	-.130	-.103	-.178	-.049	-.300	-.002	-.432	.030
	70	---	-.154	---	-.148	---	-.128	---	-.086	---	-.049	---	-.013	---	.008
	80	---	-.072	---	-.074	---	-.050	---	-.040	---	-.012	---	.015	---	.022
	90	.022	---	.010	---	.015	---	.010	---	-.008	---	-.008	---	0	---
55	0	.087	---	.250	---	.479	---	.460	---	.267	---	.060	---	-.122	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.098	-.368	.029	-.350	-.129	-.158	-.262	-.044	-.450	.080	-.880	.158	-1.076	.262
	20	.017	-.363	-.040	-.312	-.162	-.170	-.268	-.083	-.434	.020	-.607	.105	-.930	.172
	30	-.039	-.290	-.080	-.262	-.150	-.150	-.261	-.089	-.400	-.018	-.569	.055	-.875	.108
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.070	---	-.108	---	-.167	---	-.214	---	-.267	---	-.275	---	-.518	---
	60	-.058	-.028	-.092	-.020	-.140	.002	-.169	.022	-.200	.042	-.210	.074	-.397	.100
	70	-.028	-.110	-.068	.065	-.078	-.085	-.104	-.070	-.132	-.050	-.132	-.011	-.270	.010
	80	0	-.030	-.020	-.040	-.027	-.030	-.050	-.018	-.065	-.012	-.065	.013	-.168	.028
	90	.045	.030	.045	.028	.030	.035	.025	.040	.009	.040	.008	.040	-.067	.028
75	0	.227	---	.372	---	.516	---	.410	---	.110	---	-.138	---	-.302	---
	5	.163	---	.108	---	-.111	---	-.310	---	-.797	---	-1.173	---	-.938	---
	10	.109	-.383	.048	-.327	-.123	-.110	-.247	-.012	-.549	.122	-1.062	.220	-.862	.270
	20	.032	-.327	-.027	-.280	-.147	-.131	-.246	-.053	-.352	.050	-.710	.122	-.732	.171
	30	-.030	-.286	-.077	-.273	-.174	.163	-.254	-.100	-.347	-.018	-.427	.052	-.642	.092
	40	-.065	---	-.088	---	-.152	---	-.208	---	-.268	---	-.273	---	-.582	---
	50	-.075	---	-.111	---	-.162	---	-.204	---	-.230	---	-.217	---	-.515	---
	60	-.049	-.133	-.077	-.140	-.120	-.101	-.135	-.091	-.142	-.067	-.143	-.030	-.475	-.030
	70	-.019	-.062	-.040	-.075	-.048	-.055	-.058	-.058	-.068	-.040	-.068	-.025	-.412	-.025
	80	0	-.008	.010	-.010	0	0	-.011	-.018	-.017	.002	-.018	.002	-.348	-.049
	90	.063	---	.049	---	.062	---	.052	---	.045	---	.045	---	-.262	---
95	0	.050	---	.258	---	.490	---	.418	---	.158	---	-.077	---	-.080	---
	5	.129	---	.067	---	-.151	---	-.360	---	-.848	---	-.849	---	-.469	---
	10	.020	-.408	-.038	-.352	-.178	-.167	-.302	-.060	-.517	.071	-.699	.140	-.415	.175
	20	-.098	-.213	-.120	-.152	-.164	-.154	-.199	-.126	-.236	-.080	-.549	-.038	-.368	-.003
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.092	-.174	-.110	-.160	-.110	-.131	-.130	-.112	-.152	-.102	-.320	-.102	-.276	-.120
	50	-.080	---	-.095	---	-.095	---	-.111	---	-.130	---	-.264	---	-.242	---
	60	-.031	-.053	-.033	-.016	-.017	-.032	-.015	-.025	-.051	-.035	-.181	-.026	-.209	-.073
	70	-.015	-.032	-.015	-.011	-.002	-.010	-.009	-.004	-.020	-.020	-.166	-.030	-.212	-.097
	80	.035	.035	.032	.035	.059	.068	.052	.052	.022	.044	-.103	.022	-.202	-.070
	90	.060	---	.082	---	.100	---	.092	---	.060	---	-.087	---	-.204	---

(j) M,0.90.

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	0.490	---	0.588	---	0.620	---	0.599	---	0.482	---	0.308	---	0.100	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.133	-0.187	.050	-0.107	0	-0.017	-.099	0.061	-.195	0.122	-.320	0.260	-.436	0.350
	20	.070	-.180	.015	-.113	-.040	-.048	-.120	.020	-.210	.105	-.310	.190	-.426	.265
	30	.020	-.248	-.023	-.175	-.075	-.122	-.160	-.060	-.249	.021	-.325	.087	-.429	.150
	40	0	-.230	-.050	-.168	-.100	-.105	-.169	-.048	-.239	.020	-.316	.088	-.419	.140
	50	-.050	---	-.090	---	-.118	---	-.192	---	-.267	---	-.339	---	-.419	---
	60	-.072	-.295	-.112	-.230	-.140	-.160	-.218	-.105	-.300	-.040	-.379	.011	-.456	.070
	70	---	-.335	---	-.276	---	-.203	---	-.150	---	-.095	---	-.040	---	.001
	80	-.080	-.308	-.118	-.238	-.148	-.160	-.220	-.110	-.324	-.062	-.414	-.028	-.492	.012
	90	-.047	---	-.072	---	-.088	---	-.118	---	-.200	---	-.368	---	-.470	---
35	0	.279	---	.377	---	.385	---	.281	---	.120	---	-.041	---	-.170	---
	5	.169	---	.071	---	-.046	---	-.219	---	-.430	---	-.790	---	-1.068	---
	10	.091	-.331	.019	-.232	-.067	-.141	-.179	-.004	-.313	.115	-.585	.201	-.920	.299
	20	.011	-.368	-.059	-.280	-.130	-.180	-.220	-.068	-.340	.010	-.489	.070	-.718	.150
	30	-.041	-.339	-.108	-.268	-.180	-.200	-.260	-.100	-.360	-.020	-.476	.090	-.662	.120
	40	-.079	---	-.138	---	-.205	---	-.290	---	-.399	---	-.510	---	-.591	---
	50	-.098	---	-.140	---	-.199	---	-.280	---	-.398	---	-.492	---	-.550	---
	60	-.031	-.311	-.062	-.216	-.092	-.169	-.141	-.100	-.271	-.051	-.379	-.020	-.440	.025
	70	---	-.164	---	-.140	---	-.139	-.128	-.081	-.141	-.050	-.308	-.016	-.393	0
	80	---	-.071	---	-.071	---	-.056	---	-.030	---	-.008	---	-.011	---	.019
	90	.022	---	.015	---	.011	---	.017	---	.012	---	-.010	---	.019	---
55	0	.097	---	.316	---	.460	---	.465	---	.308	---	.122	---	-.075	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.080	-.387	.008	-.311	-.096	-.199	-.264	-.052	-.423	.085	-.942	.148	-.934	.265
	20	0	-.402	-.059	-.300	-.140	-.193	-.278	-.082	-.428	.019	-.565	.100	-.822	.163
	30	-.040	-.362	-.095	-.280	-.165	-.177	-.288	-.088	-.448	-.012	-.550	.050	-.530	.110
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.082	---	-.115	---	-.152	---	-.210	---	-.253	---	-.480	---	-.490	---
	60	-.070	-.020	-.096	-.013	-.123	.010	-.170	.024	-.190	.054	-.193	.078	-.415	.100
	70	-.038	-.112	-.055	-.090	-.074	-.102	-.105	-.068	-.117	-.040	-.092	-.015	-.214	.005
	80	-.010	-.039	-.010	-.020	-.032	-.025	-.050	-.015	-.050	.012	-.050	.020	-.105	.020
	90	.035	.035	.035	.035	.035	-.043	.025	.040	.025	.040	.025	.040	.025	.040
75	0	.200	---	.425	---	.503	---	.411	---	.147	---	-.077	---	-.288	---
	5	.138	---	.065	---	-.058	---	-.332	---	-.824	---	-1.180	---	-1.103	---
	10	.073	-.615	.032	-.305	-.072	-.170	-.249	-.010	-.604	.115	-1.093	.203	-1.020	.264
	20	0	-.360	-.043	-.262	-.120	-.163	-.250	-.047	-.385	.039	-.917	.112	-.900	.163
	30	-.062	-.288	-.090	-.258	-.150	-.185	-.260	-.100	-.334	-.028	-.600	.045	-.717	.082
	40	-.092	---	-.095	---	-.139	---	-.212	---	-.258	---	-.279	---	-.628	---
	50	-.100	---	-.120	---	-.148	---	-.200	---	-.232	---	-.230	---	-.538	---
	60	-.073	-.159	-.082	-.140	-.101	-.125	-.132	-.100	-.139	-.072	-.139	-.012	-.430	-.032
	70	-.043	-.078	-.038	-.078	-.060	-.060	-.050	-.050	-.055	-.050	-.055	-.030	-.369	-.050
	80	-.013	-.013	0	-.014	0	-.002	-.009	.002	-.009	.002	-.009	.002	-.300	-.063
	90	.038	---	.057	---	.065	---	.057	---	.052	---	.052	---	-.235	---
95	0	.083	---	.340	---	.471	---	.425	---	.184	---	-.055	---	-.079	---
	5	.119	---	.037	---	-.109	---	-.372	---	-.874	---	-.990	---	-.482	---
	10	.010	-.548	-.062	-.339	-.154	-.226	-.315	-.065	-.612	.092	-.810	.142	-.433	.173
	20	-.132	-.205	-.147	-.152	-.170	-.177	-.178	-.150	-.220	-.109	-.608	-.055	-.350	-.014
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.105	-.183	-.105	-.152	-.105	-.149	-.126	-.105	-.144	-.110	-.325	-.110	-.300	-.125
	50	-.095	---	-.095	---	-.095	---	-.110	---	-.125	---	-.263	---	-.268	---
	60	-.040	-.060	-.035	-.026	-.014	-.014	-.023	-.030	-.050	-.050	-.185	-.026	-.232	-.083
	70	-.022	-.042	-.008	-.005	.002	-.004	-.020	0	-.030	-.025	-.170	-.019	-.238	-.111
	80	.024	.019	.042	.070	.060	-.070	.059	-.050	.020	.040	-.120	.040	-.237	-.079
	90	.053	---	.092	---	.085	---	.088	---	.053	---	-.085	---	-.241	---

NACA

TABLE V.— CONCLUDED

(k) M,0.92.

Percent semi-span	Percent 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
15	0	0.525	---	0.590	---	0.622	---	0.608	---	0.499	---	0.330	---	0.230	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.116	-0.135	.070	-0.090	0	-0.010	-.100	0.080	-.209	0.180	-.310	0.300	-.375	0.340
	20	.070	-.162	.012	-.140	-.050	-.070	-.130	0	-.220	.090	-.296	.200	-.362	.230
	30	.030	-.179	-.020	-.148	-.087	-.120	-.160	-.015	-.250	.060	-.329	.151	-.381	.181
	40	.012	-.202	-.045	-.180	-.102	-.102	-.167	-.055	-.240	.011	-.305	.106	-.360	.130
	50	-.050	---	-.088	---	-.142	---	-.202	---	-.270	---	-.322	---	-.372	---
	60	-.068	-.268	-.118	-.242	-.170	-.182	-.230	-.119	-.310	-.060	-.365	.020	-.412	.039
	70	---	-.318	---	-.298	---	-.240	---	-.170	---	-.111	---	-.035	---	-.020
	80	-.039	-.308	-.140	-.290	-.200	-.227	-.271	-.140	-.355	-.091	-.405	-.024	-.450	-.015
	90	-.050	---	-.090	---	-.125	---	-.198	---	-.330	---	-.400	---	-.450	---
35	0	.115	---	.378	---	.409	---	.300	---	.137	---	-.035	---	.255	---
	5	.162	---	.080	---	-.048	---	-.225	---	-.435	---	-.962	---	-1.112	---
	10	.090	-.265	.022	-.263	-.072	-.185	-.185	-.018	-.325	.118	-.533	.223	-.050	.265
	20	.010	-.302	-.057	-.282	-.140	-.183	-.225	-.077	-.328	.020	-.438	.102	-.498	.140
	30	-.038	-.302	-.120	-.297	-.196	-.220	-.271	-.113	-.358	-.027	-.449	.059	-.496	.094
	40	-.071	---	-.147	---	-.225	---	-.292	---	-.383	---	-.460	---	-.502	---
	50	-.105	---	-.162	---	-.246	---	-.312	---	-.392	---	-.473	---	-.514	---
	60	-.040	-.313	.087	-.325	-.152	-.245	-.220	-.120	-.299	-.068	-.370	-.018	-.402	-.002
	70	-.125	-.265	-.172	-.265	-.167	-.181	-.170	-.098	-.295	-.065	-.360	-.040	-.382	-.028
	80	---	-.065	---	-.090	---	-.073	---	-.040	---	-.025	---	-.015	---	.002
	90	.032	---	-.003	---	-.012	---	.010	---	.010	---	-.049	---	-.084	---
55	0	.140	---	.280	---	.452	---	.468	---	.330	---	.138	---	.040	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.058	-.350	.003	-.342	-.117	-.219	-.272	-.050	-.419	.080	-1.008	.188	-1.128	.223
	20	-.021	-.380	-.065	-.343	-.172	-.237	-.295	-.092	-.430	.010	-.583	.096	-.943	.125
	30	-.061	-.351	-.100	-.372	-.195	-.230	-.330	-.098	-.450	-.028	-.530	.048	-.607	.070
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.095	---	-.120	---	-.162	---	-.212	---	-.447	---	-.598	---	-.632	---
	60	-.080	-.010	-.105	-.010	-.137	0	-.155	.027	-.235	.053	-.487	.078	-.570	.082
	70	-.045	-.090	-.063	-.112	-.100	-.110	-.108	-.070	-.095	-.045	-.138	-.020	-.189	-.020
	80	-.010	-.023	-.010	-.035	-.038	-.035	-.053	-.012	-.030	.008	-.050	.010	-.051	.010
	90	.032	.045	.020	.039	.026	.038	.023	.040	.023	.040	.018	.040	.020	.040
75	0	.258	---	.370	---	.480	---	.464	---	.167	---	-.050	---	-.140	---
	5	.098	---	.040	---	.082	---	-.387	---	-.800	---	-1.150	---	-1.240	---
	10	.055	-.570	.020	-.438	-.100	-.210	-.299	-.022	-.642	.109	-1.075	.193	-1.150	.232
	20	-.009	-.405	-.047	-.350	-.142	-.189	-.278	-.070	-.470	.030	-.970	.100	-1.059	.130
	30	-.065	-.340	-.101	-.320	-.173	-.210	-.265	-.112	-.482	-.038	-.820	.040	-.952	.060
	40	-.065	---	-.060	---	-.155	---	-.299	---	-.322	---	-.548	---	-.610	---
	50	-.100	---	-.128	---	-.173	---	-.229	---	-.192	---	-.199	---	-.528	---
	60	-.073	-.130	-.099	-.165	-.140	-.160	-.159	-.118	-.118	-.072	-.157	-.040	-.255	-.035
	70	-.033	-.060	-.060	-.080	-.067	-.081	-.075	-.075	-.058	-.035	-.075	-.035	-.157	-.032
	80	.009	-.011	0	-.019	-.030	-.015	.018	-.033	-.020	0	-.020	0	-.059	0
	90	.050	---	.040	---	.040	---	.049	---	.058	---	.049	---	.019	---
95	0	.143	---	.289	---	.488	---	.440	---	.199	---	-.020	---	-.087	---
	5	.099	---	.047	---	-.100	---	-.400	---	-.888	---	-.937	---	-.735	---
	10	0	---	-.037	---	-.147	---	-.195	---	-.781	---	-.840	---	-.670	---
	20	-.150	---	-.179	---	-.200	---	-.227	---	-.570	---	-.693	---	-.592	---
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.099	---	-.102	---	-.102	---	-.110	---	-.106	---	-.404	---	-.430	---
	50	-.08	---	-.097	---	-.097	---	-.108	---	-.118	---	-.389	---	-.371	---
	60	-.039	---	-.028	---	-.015	---	-.030	---	-.055	---	-.230	---	-.308	---
	70	-.012	---	-.018	---	.008	---	-.001	---	-.026	---	-.202	---	-.299	---
	80	.019	---	.047	---	.068	---	.062	---	.018	---	-.147	---	-.267	---
	90	---	---	---	---	---	---	---	---	---	---	---	---	---	---

(l) M,0.94.

Percent semi-span	Percent 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
15	0	0.540	---	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	-.230	0.291	-.345	0.315
	20	.095	-.151	.021	-.140	-.011	-.046	-.100	.005	-.200	.110	-.270	.198	-.338	.230
	30	.012	-.170	-.021	-.160	-.075	-.074	-.140	-.008	-.230	.071	-.299	.142	-.359	.170
	40	-.010	-.205	-.050	-.190	-.095	-.100	-.150	-.045	-.230	-.030	-.280	.100	-.341	.120
	50	-.070	---	-.095	---	-.111	---	-.195	---	-.254	---	-.310	---	-.361	---
	60	-.099	-.267	-.129	-.250	-.170	-.170	-.220	-.111	-.300	-.042	-.350	.018	-.400	.038
	70	---	-.322	---	-.311	---	-.230	---	-.150	---	-.119	---	-.059	---	-.040
	80	-.139	-.320	-.154	-.310	-.221	-.228	-.265	-.170	-.340	-.100	-.390	-.051	-.440	-.040
	90	-.112	---	-.160	---	-.210	---	-.265	---	-.340	---	-.399	---	-.440	---
35	0	.345	---	.398	---	.410	---	.312	---	.144	---	.019	---	-.063	---
	5	.153	---	.100	---	-.050	---	-.203	---	-.488	---	-.912	---	-1.042	---
	10	.084	-.265	.040	-.255	-.069	-.123	-.170	-.013	-.312	.124	-.484	.204	-.803	.245
	20	.024	-.288	-.045	-.262	-.132	-.161	-.215	-.073	-.324	.034	-.415	.102	-.458	.137
	30	-.053	-.292	-.106	-.268	-.190	-.197	-.260	-.120	-.352	-.032	-.430	.037	-.468	.064
	40	-.100	---	-.150	---	-.218	---	-.297	---	-.375	---	-.445	---	-.486	---
	50	-.132	---	-.174	---	-.248	---	-.310	---	-.388	---	-.460	---	-.497	---
	60	-.077	-.320	-.120	-.325	-.182	-.250	-.239	-.178	-.298	-.089	-.361	-.050	-.395	-.032
	70	-.162	-.361	-.198	-.364	-.255	-.275	-.303	-.152	-.332	-.098	-.370	-.080	-.389	-.072
	80	---	-.268	---	-.194	---	-.100	---	-.055	---	-.067	---	-.070	---	-.068
	90	.009	---	-.005	---	-.030	---	.003	---	-.053	---	-.139	---	-.188	---
55	0	.213	---	.276	---	.468	---	.450	---	.320	---	.179	---	.070	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	.035	-.329	-.022	-.360	-.123	-.195	-.271	-.088	-.434	.050	-.900	.144	-1.032	.170
	20	-.050	-.362	-.102	-.370	-.182	-.217	-.302	-.138	-.440	-.020	-.560	.059	-.895	.072
	30	-.096	-.338	-.158	-.350	-.213	-.223	-.342	-.150	-.467	-.060	-.519	.008	-.599	.018
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.126	---	-.151	---	-.235	---	-.382	---	-.516	---	-.592	---	-.638	---
	60	-.097	-.140	-.134	-.162	-.134	.005	-.256	.010	-.483	.026	-.599	.040	-.659	.022
	70	-.090	-.140	-.090	-.118	-.035	-.058	-.085	-.072	-.194	-.052	-.370	-.071	-.500	-.098
	80	-.018	-.023	-.042	-.035	-.020	-.005	-.040	-.030	-.060	-.029	-.139	-.046	-.215	-.070
	90	.030	.050	.010	.040	.010	.050	.020	.029	.010	.030	-.040	-.009	-.101	-.040
75	0	.307	---	.383	---	.473	---	.428	---	.200	---	.028	---	-.077	---
	5	.078	---	.064	---	.129	---	-.369	---	-.771	---	-1.026	---	-1.116	---
	10	.032	-.525	.018	-.462	-.145	-.228	-.301	-.037	-.655	.091	-.943	.172	-1.038	.192
	20	-.032	-.410	-.060	-.398	-.180	-.210	-.330	-.071	-.468	.018	-.850	.072	-.968	.088
	30	-.072	-.398	-.102	-.440	-.168	-.219	-.332	-.119	-.530	-.048	-.709	.005	-.900	.019
	40	-.060	---	-.099	---	-.002	---	-.221	---	-.508	---	-.593	---	-.792	---
	50	-.111	---	-.129	---	-.172	---	-.168	---	-.388	---	-.575	---	-.599	---
	60	-.090	-.107	-.100	-.132	-.124	-.148	-.140	-.113	-.113	-.090	-.187	-.070	-.314	-.082
	70	-.030	-.059	-.030	-.075	-.068	-.090	-.072	-.055	-.085	0	-.065	0	-.182	-.073
	80	.032	-.012	.005	-.016	0	0	0	0	-.020	.038	-.035	.005	-.129	-.067
	90	.055	---	.050	---	.069	---	.074	---	.080	---	.035	---	-.071	---
95	0	.200	---	.289	---	.491	---	.429	---	.220	---	.053	---	-.032	---
	5	.080	---	.077	---	-.120	---	-.432	---	-.869	---	-1.019	---	-.855	---
	10	0	-.600	-.022	-.563	-.164	-.216	-.347	-.053	-.818	---	-.959	---	-.778	.137
	20	-.178	-.440	-.203	-.375	-.267	-.280	-.290	-.212	-.672	---	-.858	---	-.718	-.082
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.107	-.070	-.091	-.129	-.117	-.070	-.108	-.112	-.008	---	-.393	---	-.508	-.249
	50	-.063	---	-.082	---	-.100	---	-.109	---	-.047	---	-.300	---	-.449	---
	60	-.012	-.030	-.030	-.022	.012	-.012	-.022	-.014	-.022	---	-.190	---	-.341	-.092
	70	.005	-.002	-.012	.002	.007	.008	.014	.002	-.013	---	-.162	---	-.322	-.075
	80	.059	.052	.054	.065	.064	.080	.069	.072	.030	---	-.092	---	-.259	-.022
	90	.094	---	.082	---	.110	---	.109	---	---	---	---	---	-.227	---

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 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	-0.984	---	-0.026	---	0.500	---	0.651	---	0.568	---	0.125	---
	5	.250	---	.113	---	-.035	---	-.189	---	-.368	---	-.608	---
	10	.173	-0.328	.071	-0.209	-.054	-0.077	-.157	0.042	-.287	0.165	-.476	0.277
	20	.084	-.295	.003	-.199	-.087	-.115	-.157	-.003	-.248	.068	-.367	.170
	30	.032	-.231	-.032	-.161	-.119	-.090	-.183	.003	-.295	.061	-.347	.158
	40	-.003	-.256	-.064	-.193	-.125	-.131	-.183	-.061	-.243	.003	-.315	.071
	50	-.036	---	-.080	---	-.128	---	-.173	---	-.223	---	-.283	---
	60	-.036	-.214	-.071	-.209	-.125	-.205	-.157	-.087	-.197	-.035	-.251	.032
	70	-.032	-.192	-.064	-.154	-.109	-.125	-.126	-.087	-.174	-.055	-.206	.003
	80	-.019	-.133	-.048	.113	-.077	-.093	-.090	-.061	-.119	-.029	-.181	.003
	90	-.003	-.068	-.006	-.058	-.029	-.061	-.035	-.022	-.061	.003	-.064	.006
35	0	-.295	---	.482	---	.684	---	.388	---	-.432	---	-.904	---
	5	.263	---	.103	---	-.087	---	-.269	---	-.487	---	-.945	---
	10	.159	-.425	.064	-.257	-.067	-.119	-.189	.035	-.319	.148	-.672	.267
	20	.065	-.328	-.016	-.225	-.119	-.125	-.205	-.029	-.316	.068	-.473	.164
	30	.023	-.289	-.048	-.219	-.125	-.141	-.199	-.061	-.287	.006	-.376	.103
	40	-.019	-.263	-.080	-.209	-.141	-.151	-.199	-.077	-.255	-.023	-.316	.068
	50	-.042	-.247	-.090	-.193	-.131	-.151	-.189	-.093	-.239	-.045	-.277	.029
	60	-.036	-.198	-.064	-.161	-.119	-.125	-.131	-.077	-.174	-.055	-.215	.003
	70	-.019	-.127	-.048	-.096	-.087	-.091	-.093	-.045	-.119	-.023	-.141	.035
	80	.013	-.062	0	-.048	-.022	-.029	-.029	.003	-.055	.006	-.077	.039
	90	.036	-.003	.032	0	.019	0	.003	.019	.003	.035	.001	.045
55	0	-.724	---	.193	---	.580	---	.548	---	-.055	---	-.318	---
	5	.419	---	.241	---	.179	---	.099	---	.052	---	-.096	---
	10	.199	-.425	.048	-.257	-.093	-.109	-.221	.035	-.400	.165	-.701	.267
	20	.065	-.328	0	-.222	-.119	-.119	-.215	-.013	-.319	.068	-.517	.167
	30	.029	-.279	-.048	-.209	-.125	-.125	-.205	-.045	-.281	.019	-.408	.106
	40	-.019	---	-.064	---	-.125	---	-.189	---	-.248	---	-.318	---
	50	-.036	---	-.071	---	-.125	---	-.013	---	-.216	---	-.251	---
	60	-.029	-.166	-.064	-.129	-.099	-.099	-.125	-.061	-.165	-.029	-.190	.010
	70	-.010	-.101	-.039	-.080	-.067	-.061	-.077	-.029	-.103	.003	-.125	.032
	80	.029	---	0	---	.003	---	-.029	---	-.045	---	-.061	---
	90	.045	.029	.032	.032	.035	.035	.035	.051	.019	.052	.003	.061
75	0	-.945	---	-.322	---	.484	---	.644	---	.481	---	.329	---
	5	.289	---	.139	---	-.067	---	-.301	---	-.552	---	-.765	---
	10	.198	-.458	.064	-.257	-.087	-.093	-.221	.061	-.400	.190	-.782	.293
	20	.078	-.328	0	-.254	-.093	-.109	-.196	.003	-.319	.077	-.534	.170
	30	.029	-.263	-.032	-.199	-.109	-.125	-.189	-.054	-.423	.010	-.481	.100
	40	-.003	-.231	-.058	-.177	-.119	-.125	-.183	-.058	-.390	.001	-.396	.048
	50	-.019	---	-.058	---	-.099	---	-.125	---	-.178	---	-.215	---
	60	-.029	-.159	-.055	-.129	-.093	-.099	-.109	-.061	-.142	-.029	-.167	.010
	70	-.010	-.097	-.032	-.080	-.061	-.061	-.061	-.029	-.071	-.003	-.109	.013
	80	.013	-.036	0	-.026	.003	-.029	-.022	.001	-.029	.019	-.054	.019
	90	.110	.029	.096	.032	.099	.067	.099	.061	.100	.068	.100	.051
95	0	-.523	---	.129	---	.580	---	.619	---	.406	---	.212	---
	5	.224	---	.096	---	-.077	---	-.260	---	-.481	---	-.701	---
	10	.097	-.213	.016	-.126	-.093	-.042	-.205	.039	-.335	.103	-.601	.165
	20	.029	-.232	-.039	-.177	-.099	-.123	-.157	-.058	-.221	0	-.383	.042
	30	---	-.190	---	-.155	---	-.123	---	-.077	---	-.042	---	-.016
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.068	---	-.080	---	-.093	---	-.109	---	-.126	---	-.154	---
	60	-.052	-.103	-.064	-.090	-.061	-.087	-.077	-.095	-.094	-.058	-.116	-.052
	70	-.029	-.092	-.032	-.032	-.029	-.032	-.029	-.029	-.055	-.026	-.061	-.029
	80	-.003	-.003	.006	.006	.019	.006	-.029	.006	.003	.006	-.029	.003
	90	.035	.035	.035	.048	.068	.042	.042	.042	.035	.034	-.019	.026

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	-0.399	---	-0.924	---	-1.349	---	-1.374	---	-0.804	---	-0.615	---
	5	-.960	---	-1.083	---	1.316	---	-2.800	---	-1.497	---	-1.099	---
	10	-.708	0.366	-.884	0.467	-.990	0.547	-1.925	0.600	-1.523	0.634	-1.098	0.668
	20	-.940	.232	-.652	.301	-.713	.394	-.964	.430	-1.333	.464	-1.033	.505
	30	-.500	.188	-.586	.238	-.599	.316	-.725	.364	-1.201	.392	-1.065	.417
	40	-.436	.097	-.517	.169	-.518	.241	-.613	.249	-.967	.264	-1.016	.303
	50	-.399	---	-.437	---	-.443	---	-.548	---	-.778	---	-.915	---
	60	-.336	.030	-.361	.073	-.371	.134	-.459	.151	-.631	.170	-.817	.173
	70	-.289	.003	-.311	.043	-.306	.091	-.330	.102	-.520	.111	-.756	.114
	80	-.198	-.003	-.222	.036	-.215	.085	-.292	.069	-.418	.072	-.635	.068
	90	-.131	.003	-.129	.036	-.117	.052	-.193	.036	-.288	.039	-.544	-.023
35	0	-1.544	---	-1.685	---	-1.414	---	-1.144	---	-1.023	---	-.915	---
	5	-1.389	---	-1.447	---	-1.153	---	-1.046	---	-.941	---	-.870	---
	10	-1.211	.332	-1.395	.404	-1.049	.476	-1.269	.502	-.843	.529	-.788	.547
	20	-.940	.232	-1.255	.242	-1.094	.329	-.987	.357	-.908	.382	-.844	.401
	30	-.500	.131	-.987	.202	-1.055	.248	-.954	.239	-.882	.268	-.821	.301
	40	-.356	.067	-.719	.132	-.990	.176	-.954	.177	-.892	.202	-.821	.212
	50	-.305	.027	-.583	.063	-.909	.117	-.944	.108	-.876	.111	-.834	.124
	60	-.248	0	-.361	.036	-.779	.081	-.882	.062	-.869	.056	-.834	.099
	70	-.188	0	-.262	.036	-.632	.055	-.800	.036	-.810	.013	-.805	.031
	80	-.104	.013	-.162	.036	-.463	.055	-.692	.003	-.745	-.033	-.756	-.072
	90	-.037	.013	-.086	.026	-.313	.026	-.590	-.055	-.654	-.157	-.681	-.202
55	0	-.641	---	-.798	---	-.697	---	-.757	---	-.771	---	-.837	---
	5	-.138	---	-.189	---	-.169	---	-.187	---	-.183	---	-.169	---
	10	-.906	.332	-.891	.384	-.664	.427	-.620	.456	-.549	.480	-.560	.505
	20	-.809	.232	-.858	.242	-.658	.280	-.613	.298	-.549	.333	-.550	.368
	30	-.709	.131	-.825	.172	-.625	.199	-.587	.207	-.542	.235	-.550	.244
	40	-.574	---	-.755	---	-.606	---	-.587	---	-.542	---	-.550	---
	50	-.440	---	-.689	---	-.583	---	-.587	---	-.546	---	-.550	---
	60	-.336	.003	-.576	.020	-.550	.026	-.561	.003	-.546	.013	-.550	.016
	70	-.238	.007	-.491	.007	-.534	-.007	-.561	-.030	-.556	-.026	-.560	-.023
	80	-.164	---	-.394	---	-.502	---	-.548	---	-.549	---	-.550	---
	90	-.087	.023	-.311	-.040	-.463	-.127	-.515	-.161	-.516	-.190	-.528	-.511
75	0	.138	---	.209	---	.218	---	.098	---	-.098	---	-.583	---
	5	-.876	---	-.553	---	-.397	---	-.374	---	-.412	---	-.440	---
	10	-.846	.332	-.543	.341	-.388	.384	-.374	.413	-.412	.458	-.440	.498
	20	-.775	.198	-.526	.202	-.371	.248	-.374	.249	-.412	.301	-.430	.336
	30	-.634	.097	-.500	.129	-.371	.150	-.374	.167	-.412	.203	-.430	.238
	40	-.500	.070	-.487	.053	-.368	.085	-.374	.075	-.412	.105	-.430	.140
	50	-.369	---	-.421	---	-.339	---	-.357	---	-.386	---	-.414	---
	60	-.305	-.020	-.411	-.010	-.339	-.013	-.374	-.033	-.412	-.026	-.440	-.016
	70	-.238	-.020	-.361	-.046	-.339	-.052	-.361	-.079	-.415	-.065	-.440	-.055
	80	-.164	-.003	-.311	-.060	-.336	-.078	-.361	-.102	-.415	-.092	-.430	-.094
	90	.030	-.003	-.030	-.070	-.052	-.117	-.095	-.161	-.098	-.157	-.114	-.160
95	0	-.013	---	-.030	---	.150	---	.069	---	-.085	---	-.212	---
	5	-.809	---	-.642	---	-.365	---	-.325	---	-.327	---	-.342	---
	10	-.742	.194	-.593	.203	-.345	.237	-.325	.229	-.327	.261	-.342	.294
	20	-.581	.068	-.543	.081	-.339	.081	-.325	.100	-.327	.135	-.342	.165
	30	---	.003	---	.006	---	.010	---	.026	---	.048	---	.068
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.255	---	-.288	---	-.274	---	-.308	---	-.350	---	-.355	---
	60	-.209	-.039	-.245	-.071	-.267	-.090	-.308	-.094	-.350	-.094	-.355	-.094
	70	-.138	-.032	-.199	-.061	-.248	-.090	-.298	-.100	-.350	-.103	-.355	-.106
	80	-.111	-.003	-.192	-.035	-.238	-.087	-.292	-.103	-.337	-.119	-.349	-.123
	90	-.061	.003	-.145	-.058	-.209	-.100	-.287	-.142	-.319	-.158	-.348	-.168

NACA

TABLE VI.– CONTINUED

(b) M,0.60.

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	-0.752	---	0.001	---	0.322	---	0.703	---	0.646	---	0.420	---
	5	.264	---	.144	---	-.003	---	-.175	---	-.402	---	-.655	---
	10	.188	-0.350	.090	-0.230	-.032	-0.090	-.157	0.040	-.335	0.173	-.510	0.285
	20	.094	-.311	.015	-.255	-.073	-.125	-.168	-.032	-.290	.090	-.404	.168
	30	.039	-.257	-.038	-.181	-.112	-.200	-.192	-.020	-.257	.080	-.389	.140
	40	-.005	-.278	-.068	-.220	-.132	-.143	-.198	-.081	-.286	.004	-.360	.057
	50	-.039	---	-.087	---	-.142	---	-.200	---	-.269	---	-.338	---
	60	-.048	-.240	-.090	-.200	-.132	-.143	-.180	-.100	-.240	-.036	-.291	.003
	70	-.057	-.210	-.090	-.175	-.126	-.130	-.160	-.090	-.206	-.045	-.248	-.015
	80	-.030	-.154	-.129	-.129	-.080	-.091	-.109	-.065	-.140	-.030	-.180	-.009
	90	-.002	-.080	-.024	-.060	-.038	-.038	-.025	-.019	-.070	.018	-.100	.018
35	0	.043	---	.518	---	.685	---	.918	---	-.192	---	-.538	---
	5	.260	---	.124	---	-.042	---	.278	---	-.600	---	-.964	---
	10	.153	-.464	.070	-.314	-.042	-.136	-.188	.002	-.398	.162	-.710	.260
	20	.057	-.370	-.024	-.266	-.112	-.150	-.228	-.052	-.370	.068	-.548	.140
	30	.012	-.322	-.068	-.248	-.135	-.157	-.225	-.083	-.330	.022	-.430	.085
	40	-.039	-.292	-.093	-.240	-.150	-.162	-.222	-.105	-.302	-.025	-.370	.026
	50	-.065	-.273	-.108	-.228	-.143	-.161	-.210	-.109	-.272	-.054	-.314	-.008
	60	-.050	-.213	-.080	-.180	-.118	-.128	-.157	-.100	-.205	-.042	-.238	-.017
	70	-.029	-.140	-.044	-.120	-.063	-.082	-.110	-.080	-.140	-.020	-.170	.008
	80	.003	-.067	-.010	-.045	-.019	-.018	-.058	-.052	-.067	.025	-.092	.018
	90	.030	0	.014	.010	.030	.029	.010	.014	0	.043	-.024	.040
55	0	-.330	---	.225	---	.604	---	.633	---	.178	---	-.065	---
	5	.209	---	.160	---	.129	---	.062	---	-.135	---	-.119	---
	10	.140	-.480	.046	-.320	-.092	-.152	-.243	.020	-.480	.182	-.752	.258
	20	.040	-.378	-.020	-.268	-.122	-.152	-.225	-.040	-.375	.080	-.590	.147
	30	-.010	-.325	-.062	-.250	-.144	-.165	-.220	-.072	-.325	.023	-.470	.080
	40	-.053	---	-.088	---	-.150	---	-.210	---	-.293	---	-.370	---
	50	-.070	---	-.100	---	-.150	---	-.190	---	-.250	---	-.295	---
	60	-.053	-.203	-.070	-.174	-.115	-.134	-.135	-.083	-.185	-.035	-.200	-.016
	70	-.040	-.135	-.055	-.108	-.080	-.080	-.098	-.040	-.129	-.009	-.162	-.002
	80	-.006	---	-.008	---	-.020	---	-.022	---	-.054	---	-.089	---
	90	.020	0	.018	.011	.020	.020	.019	.042	.022	.050	-.030	.025
75	0	-.765	---	-.281	---	.448	---	.682	---	.593	---	.457	---
	5	.283	---	.140	---	-.039	---	-.291	---	-.695	---	-.813	---
	10	.173	-.475	.060	-.321	-.072	-.109	-.238	.040	-.482	.189	-.732	.262
	20	.069	-.348	-.025	-.267	-.101	-.122	-.218	-.030	-.360	.080	-.581	.138
	30	.018	-.291	-.061	-.241	-.121	-.131	-.205	-.065	-.300	.017	-.455	.068
	40	-.030	-.252	-.092	.220	-.131	-.123	-.189	-.071	-.267	-.005	-.360	.022
	50	-.035	---	-.090	---	-.110	---	-.152	---	-.210	---	-.260	---
	60	-.038	-.165	-.080	-.160	-.098	-.097	-.125	-.175	-.169	-.038	-.210	-.030
	70	-.012	-.105	-.099	-.109	-.042	-.053	-.075	-.057	-.108	-.020	-.147	-.020
	80	.018	.017	0	-.045	-.002	-.005	-.020	.008	-.035	.017	-.080	.019
	90	.122	.030	.093	.030	.112	.099	.060	.060	.095	.060	.081	.030
95	0	-.273	---	.176	---	.577	---	.660	---	.499	---	.359	---
	5	.219	---	.102	---	-.077	---	-.279	---	-.602	---	-.742	---
	10	.094	-.193	.001	-.141	-.105	-.041	-.231	.031	-.392	.122	-.652	.171
	20	-.009	-.222	-.059	-.192	-.118	-.129	-.186	-.077	-.258	.002	-.455	.038
	30	---	-.187	---	-.164	---	-.130	---	-.095	---	-.046	---	-.024
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.082	---	-.101	---	-.112	---	-.130	---	-.148	---	-.175	---
	60	-.065	-.088	-.069	-.075	-.077	-.065	-.079	-.068	-.108	-.060	-.129	-.051
	70	-.032	-.039	-.029	-.035	-.028	-.019	-.030	-.021	-.048	-.018	-.088	-.020
	80	.018	.022	.023	.031	.015	.028	.020	.030	.001	.029	-.049	.029
	90	.050	.059	.045	.048	.066	.062	.059	.067	.035	.065	-.002	.068

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	0.208	---	0.086	---	0.157	---	0.288	---	0.242	---	-0.225	---
	5	-.827	---	-1.389	---	-2.078	---	-1.958	---	-1.154	---	-.880	---
	10	-.652	0.390	-.922	0.491	-1.140	0.540	-1.790	0.624	-1.212	0.660	-.918	0.720
	20	-.501	.257	-.600	.339	-.774	.389	-1.202	.466	-1.120	.500	-.910	.542
	30	-.470	.209	-.561	.275	-.630	.316	-.869	.378	-1.106	.483	-.947	.460
	40	-.440	.125	-.510	.187	-.575	.219	-.686	.280	-.994	.304	-.920	.339
	50	-.402	---	-.459	---	-.530	---	-.612	---	-.869	---	-.890	---
	60	-.341	.050	-.394	.098	-.472	.112	-.547	.165	-.756	.165	-.839	.195
	70	-.284	.026	-.317	.061	-.400	.070	-.478	.104	-.653	.104	-.782	.128
	80	-.202	.027	-.231	.055	-.300	.067	-.379	.055	-.477	.077	-.720	.070
	90	-.111	.040	-.129	.050	-.183	.038	-.252	.052	-.442	.001	-.640	-.022
35	0	-.973	---	-1.380	---	-1.838	---	-1.337	---	-1.365	---	-.990	---
	5	-1.170	---	-1.424	---	-1.067	---	-.974	---	-.860	---	-.812	---
	10	-.962	.349	-1.247	.421	-.938	.459	-.895	.492	-.762	.527	-.708	.560
	20	-.846	.215	-1.232	.265	-1.017	.301	-.940	.340	-.855	.378	-.795	.410
	30	-.596	.142	-.872	.188	-.942	.220	-.911	.247	-.832	.270	-.778	.310
	40	-.419	.080	-.598	.120	-.899	.142	-.886	.155	-.824	.178	-.773	.211
	50	-.329	.038	-.480	.062	-.855	.080	-.868	.075	-.820	.092	-.759	.112
	60	-.252	.018	-.380	.038	-.790	.043	-.835	.027	-.803	.032	-.775	.032
	70	-.176	.022	-.308	.025	-.715	.032	-.792	-.008	-.787	-.027	-.758	.019
	80	-.110	.037	-.207	.029	-.592	.012	-.722	-.057	-.740	-.078	-.733	.088
	90	-.040	.040	-.135	.041	-.477	-.060	-.640	-.156	-.673	-.198	-.694	.217
55	0	-.302	---	-.440	---	-.470	---	-.580	---	-.653	---	-.783	---
	5	-.197	---	-.200	---	-.185	---	-.208	---	-.200	---	-.210	---
	10	-.810	.314	-.780	.400	-.620	.400	-.570	.440	-.550	.478	-.571	.520
	20	-.708	.180	-.759	.270	-.620	.270	-.570	.301	-.549	.330	-.570	.380
	30	-.600	.114	-.720	.195	-.540	.170	-.560	.195	-.543	.226	-.570	.270
	40	-.488	---	-.664	---	-.540	---	-.560	---	-.540	---	-.570	---
	50	-.384	---	-.594	---	-.540	---	-.550	---	-.540	---	-.570	---
	60	-.289	-.007	-.503	.040	-.520	-.020	-.540	-.030	-.530	-.041	-.560	.009
	70	-.230	-.005	-.446	.021	-.510	-.050	-.550	-.064	-.557	-.068	-.580	-.041
	80	-.160	---	-.364	---	-.490	---	-.540	---	-.540	---	-.570	---
	90	-.100	.015	-.290	-.031	-.460	-.165	-.510	-.197	-.510	-.210	-.540	-.209
75	0	.255	---	.340	---	.333	---	-.008	---	-.166	---	.189	---
	5	-.931	---	-.522	---	-.392	---	-.442	---	-.459	---	-.396	---
	10	-.900	.311	-.522	.345	-.386	.362	-.442	.452	-.459	.495	-.392	.410
	20	-.820	.171	-.502	.205	-.381	.218	-.442	.301	-.451	.328	-.396	.258
	30	-.704	.090	-.470	.124	-.377	.117	-.442	.185	-.451	.222	-.396	.155
	40	-.569	.041	-.425	.062	-.371	.045	-.440	.103	-.450	.129	-.400	.092
	50	-.410	---	-.370	---	-.339	---	-.413	---	-.430	---	-.369	---
	60	-.329	-.016	-.355	-.030	-.355	-.068	-.438	-.052	-.460	-.069	-.393	-.069
	70	-.231	-.018	-.312	-.049	-.340	-.095	-.438	-.103	-.460	-.101	-.393	-.105
	80	-.150	.002	-.277	-.062	-.337	-.126	-.438	-.131	-.455	-.130	-.393	-.130
	90	.051	.020	-.082	-.082	-.042	-.160	-.082	-.198	-.075	-.198	-.066	-.179
95	0	.172	---	.030	---	-.132	---	.097	---	-.028	---	-.172	---
	5	-.799	---	-.751	---	-.799	---	-.392	---	-.360	---	-.370	---
	10	-.749	.201	-.722	.218	-.819	.235	-.380	.250	-.338	.275	-.370	.302
	20	-.639	.058	-.682	.065	-.855	.072	-.380	.092	-.365	.120	-.360	.152
	30	---	-.003	---	-.002	---	-.003	---	.009	---	.028	---	.054
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.275	---	-.278	---	-.300	---	-.338	---	-.372	---	-.399	---
	60	-.207	-.057	-.209	-.078	-.258	-.099	-.333	-.120	-.372	-.130	-.399	-.120
	70	-.145	-.032	-.160	-.062	-.217	-.085	-.323	-.124	-.373	-.139	-.399	-.160
	80	-.095	.021	-.120	-.039	-.199	-.069	-.313	-.120	-.374	-.147	-.400	-.150
	90	-.050	.011	-.098	-.030	-.167	-.063	-.298	-.158	-.349	-.192	-.370	-.195

NACA

TABLE VI.- CONTINUED

(c) M,0.70.

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	-0.474	---	0.043	---	0.500	---	0.713	---	0.707	---
	5	.260	---	.163	---	.015	---	-.159	---	-.116	---
	10	.189	-0.353	.110	-0.242	-.012	-0.122	-.152	0.030	-.280	-0.139
	20	.081	-.326	.028	-.239	-.072	-.150	-.172	-.040	-.268	-.055
	30	.020	-.288	-.032	-.200	-.118	-.126	-.206	-.032	-.282	-.045
	40	-.019	-.309	-.065	-.243	-.115	-.182	-.220	-.100	-.282	-.032
	50	-.054	---	-.090	---	-.157	---	-.227	---	-.277	---
	60	-.062	-.279	-.092	-.225	-.150	-.178	-.203	-.119	-.250	-.071
	70	-.064	-.240	-.091	-.199	-.137	-.165	-.191	-.123	-.223	-.079
	80	-.043	-.180	-.059	-.142	-.098	-.126	-.131	-.086	-.153	.057
	90	-.020	-.100	-.034	-.070	-.052	-.070	-.064	-.028	-.092	.139
35	0	.247	---	.533	---	.685	---	.570	---	.187	---
	5	.249	---	.138	---	-.041	---	-.260	---	-.326	---
	10	.151	-.490	.071	-.363	-.042	-.190	-.198	-.028	-.350	.110
	20	.045	-.398	-.022	-.314	-.121	-.192	-.252	-.080	-.350	.018
	30	-.010	-.350	-.068	-.292	-.148	-.200	-.256	-.112	-.338	-.033
	40	-.052	-.324	-.102	-.282	-.172	-.206	-.256	-.132	-.315	-.067
	50	-.080	-.295	-.122	-.268	-.170	-.207	-.243	-.148	-.285	-.092
	60	-.065	-.238	-.100	-.213	-.168	-.168	-.194	-.125	-.220	-.088
	70	-.047	-.159	-.068	-.145	-.096	-.108	-.145	-.080	-.158	-.048
	80	-.010	-.062	-.032	-.077	-.053	-.050	-.077	-.032	-.070	-.010
	90	.018	-.009	.012	0	.015	.008	0	.018	0	.026
55	0	-.090	---	.260	---	.600	---	.652	---	.426	---
	5	.404	---	.226	---	.180	---	.100	---	.060	---
	10	.150	-.500	.051	-.370	-.089	-.202	-.260	-.011	-.422	.101
	20	-.008	-.389	-.021	-.310	-.130	-.200	-.250	-.070	-.350	.020
	30	-.050	-.340	-.069	-.285	-.150	-.200	-.245	-.105	-.326	-.030
	40	-.069	---	-.100	---	-.162	---	-.238	---	-.296	---
	50	-.059	---	-.109	---	-.161	---	-.220	---	-.260	---
	60	-.055	-.200	-.078	-.190	-.125	-.160	-.161	-.110	-.196	-.075
	70	-.038	-.130	-.060	-.125	-.090	-.100	-.120	-.090	-.142	-.041
	80	0	---	-.010	---	-.030	---	-.030	---	-.063	---
	90	.030	.017	.020	.020	.020	.020	.020	.020	.020	.020
75	0	-.553	---	-.209	---	.397	---	.692	---	.662	---
	5	.270	---	.162	---	-.009	---	-.291	---	-.552	---
	10	.159	-.536	.069	-.354	-.058	-.211	-.247	.003	-.415	.122
	20	.058	-.375	-.014	-.289	-.105	-.208	-.238	-.065	-.336	.035
	30	0	-.313	-.058	-.270	-.120	-.207	-.218	-.101	-.294	-.024
	40	-.040	-.272	-.090	-.232	-.140	-.209	-.218	-.105	-.262	-.045
	50	-.050	---	-.088	---	-.119	---	-.177	---	-.208	---
	60	-.050	-.180	-.078	-.170	-.105	-.147	-.170	-.105	-.162	-.060
	70	-.032	-.110	-.055	-.095	-.068	-.105	-.116	-.067	-.107	-.042
	80	.005	-.040	-.010	-.032	-.009	-.040	-.035	.002	-.042	-.010
	90	.190	.030	.115	.030	.117	.018	.112	.050	.105	.041
95	0	-.105	---	.183	---	.545	---	.682	---	.593	---
	5	.208	---	.110	---	-.059	---	-.287	---	-.513	---
	10	.075	-.243	.005	-.169	-.103	-.079	-.242	.014	-.372	.085
	20	-.031	-.240	-.071	-.225	-.122	-.169	-.192	-.110	-.252	-.060
	30	---	-.215	---	-.202	---	-.160	---	-.126	---	-.092
	40	---	---	---	---	---	---	---	---	---	---
	50	-.105	---	-.122	---	-.122	---	-.144	---	-.160	---
	60	-.079	-.084	-.094	-.111	-.090	-.093	-.099	-.091	-.116	-.089
	70	-.039	-.040	-.045	-.040	-.045	-.050	-.055	-.040	-.056	-.050
	80	.001	.015	.002	.016	.009	.018	.010	.020	.005	.021
	90	.039	.050	.040	.052	.059	.060	.050	.060	.039	.061

Percent Semi-span	Percent chord	Angle of attack, degrees									
		6		8		10		12		14	
		Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface	Upper surface	Lower surface
12.5	0	0.578	---	0.427	---	0.304	---	0.157	---	0.070	---
	5	-.640	---	-1.030	---	-1.442	---	-1.930	---	-1.708	---
	10	-.528	0.289	-.760	0.398	-1.028	0.470	-1.525	0.558	-1.575	0.629
	20	-.432	.170	-.552	.262	-.666	.328	-.825	.400	-1.130	.459
	30	-.413	.138	-.519	.218	-.593	.272	-.738	.325	-.919	.373
	40	-.382	.050	-.480	.124	-.538	.178	-.658	.221	-.742	.270
	50	-.362	---	-.448	---	-.498	---	-.592	---	-.670	---
	60	-.317	-.006	-.384	.050	-.430	.085	-.519	.115	-.610	.148
	70	-.276	-.028	-.320	.019	-.367	.048	-.452	.072	-.556	.089
	80	-.198	-.013	-.230	.018	-.270	.034	-.360	.047	-.475	.068
	90	-.109	.009	-.132	.030	-.160	.035	-.231	.030	-.342	.009
35	0	-.872	---	-.663	---	-.832	---	-1.062	---	-1.200	---
	5	-1.007	---	-1.154	---	-1.102	---	-.975	---	-.957	---
	10	-.744	.245	-.950	.325	-.948	.395	-.847	.458	-.836	.472
	20	-.580	.130	-.868	.197	-.978	.259	-.930	.313	-.922	.324
	30	-.464	.062	-.668	.120	-.892	.173	-.881	.222	-.898	.227
	40	-.398	.010	-.497	.060	-.608	.104	-.850	.140	-.872	.132
	50	-.342	-.028	-.398	.013	-.730	.044	-.820	.070	-.847	.057
	60	-.263	-.027	-.301	0	-.640	.018	-.782	.026	-.820	0
	70	-.195	-.015	-.216	0	-.556	.012	-.728	-.015	-.782	-.046
	80	-.102	.010	-.137	.008	-.425	.020	-.658	-.030	-.738	-.088
	90	-.023	.030	-.070	.012	-.307	-.002	-.572	-.113	-.669	-.194
55	0	.106	---	-.145	---	-.170	---	-.340	---	-.482	---
	5	-.141	---	-.172	---	-.190	---	-.180	---	-.189	---
	10	-.781	.230	-.842	.319	-.681	.348	-.595	.420	-.579	.446
	20	-.620	.120	-.741	.191	-.659	.222	-.590	.279	-.570	.300
	30	-.500	.051	-.641	.115	-.601	.130	-.572	.180	-.558	.197
	40	-.400	---	-.530	---	-.550	---	-.540	---	-.555	---
	50	-.320	---	-.419	---	-.493	---	-.547	---	-.555	---
	60	-.239	-.040	-.312	-.030	-.430	---	-.511	-.030	-.540	-.030
	70	-.179	-.018	-.246	-.001	-.400	-.049	-.511	-.039	-.550	-.079
	80	-.101	---	-.169	---	-.356	---	-.499	---	-.545	---
	90	-.040	.030	-.100	.005	-.326	-.119	-.472	-.211	-.536	-.175
75	0	.548	---	.354	---	.368	---	.378	---	.251	---
	5	-.825	---	-.916	---	-.715	---	-.362	---	-.401	---
	10	-.728	.248	-.881	.300	-.690	.335	-.370	.367	-.401	.407
	20	-.588	.125	-.812	.162	-.642	.192	-.372	.215	-.409	.254
	30	-.456	.047	-.722	.080	-.601	.108	-.369	.119	-.405	.146
	40	-.365	.008	-.630	.025	-.522	.042	-.369	.041	-.408	.070
	50	-.263	---	-.480	---	-.420	---	-.339	---	-.377	---
	60	-.208	-.039	-.405	-.041	-.361	-.052	-.357	-.080	-.397	-.072
	70	-.140	-.023	-.310	-.037	-.299	-.067	-.357	-.105	-.407	-.111
	80	-.072	.008	-.211	-.009	-.242	-.067	-.350	-.124	-.399	-.139
	90	.090	.039	.046	.009	-.038	-.065	-.152	-.162	-.190	-.190
95	0	.442	---	.295	---	.117	---	-.052	---	.105	---
	5	-.782	---	-.809	---	-.849	---	-.888	---	-.480	---
	10	-.691	.153	-.765	.192	-.821	.206	-.922	.231	-.462	.247
	20	-.510	0	-.679	.035	-.768	.038	-.986	.049	-.480	.067
	30	---	-.057	---	-.037	---	-.031	---	-.020	---	-.022
	40	---	---	---	---	---	---	---	---	---	---
	50	-.180	---	-.330	---	-.399	---	-.302	---	-.370	---
	60	-.140	-.080	-.235	-.079	-.284	-.104	-.264	-.135	-.362	-.162
	70	-.090	-.040	-.149	-.050	-.192	-.082	-.238	-.120	-.349	-.163
	80	-.054	0	-.101	-.020	-.143	-.015	-.221	-.092	-.342	-.157
	90	-.005	.018	-.061	-.005	-.101	-.035	-.189	-.084	-.320	-.187

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	-0.200	---	0.216	---	0.600	---	0.728	---	0.730	---
	5	.209	---	.148	---	-.021	---	-.150	---	-.347	---
	10	.135	-0.282	.122	-0.210	-.047	-0.085	-.140	0.032	-.308	0.154
	20	.052	-.282	.015	-.224	-.094	-.129	-.170	-.031	-.292	.062
	30	-.012	-.260	-.045	-.190	-.140	-.120	-.203	-.033	-.311	.047
	40	-.044	-.288	-.075	-.238	-.161	-.172	-.218	-.100	-.330	-.027
	50	-.079	---	-.102	---	-.179	---	-.225	---	-.312	---
	60	-.084	-.263	-.104	-.228	-.170	-.184	-.210	-.122	-.280	-.074
	70	-.061	-.233	-.099	-.205	-.160	-.172	-.188	-.121	-.248	-.088
	80	-.053	-.178	-.067	-.150	-.116	-.133	-.135	-.085	-.180	-.068
	90	-.027	-.093	-.038	-.074	-.065	-.037	-.075	-.038	-.101	-.030
35	0	.350	---	.630	---	.692	---	.580	---	.214	---
	5	.182	---	.129	---	-.102	---	-.270	---	-.572	---
	10	.105	-.410	.078	-.296	-.084	-.140	-.192	-.022	-.370	.128
	20	-.015	-.362	-.018	-.262	-.166	-.168	-.248	-.082	-.373	.037
	30	-.040	-.313	-.062	-.243	-.182	-.182	-.250	-.108	-.347	-.012
	40	-.090	-.300	-.090	-.246	-.202	-.187	-.257	-.133	-.325	-.058
	50	-.114	-.278	-.110	-.228	-.198	-.193	-.247	-.150	-.297	-.090
	60	-.092	-.222	-.080	-.175	-.162	-.154	-.187	-.122	-.237	-.070
	70	-.060	-.150	-.047	-.101	-.108	-.100	-.129	-.080	-.157	-.032
	80	-.018	-.053	.006	-.037	-.044	-.045	-.053	-.018	-.072	-.002
	90	.018	0	.047	.034	0	.018	0	.026	.002	.036
55	0	.100	---	.400	---	.667	---	.660	---	.449	---
	5	.020	---	.124	---	.075	---	.043	---	-.038	---
	10	.078	-.400	.035	-.320	-.140	-.140	-.267	-.030	-.461	.131
	20	-.017	-.346	-.037	-.290	-.159	-.159	-.259	-.080	-.378	.039
	30	-.050	-.306	-.074	-.268	-.180	-.172	-.255	-.114	-.342	-.010
	40	-.083	---	-.105	---	-.191	---	-.250	---	-.310	---
	50	-.100	---	-.115	---	-.189	---	-.230	---	-.270	---
	60	-.071	-.189	-.086	-.175	-.140	-.150	-.173	-.120	-.199	-.063
	70	-.055	-.120	-.070	-.110	-.100	-.099	-.120	-.060	-.135	-.030
	80	-.010	---	-.010	---	-.031	---	-.050	---	-.056	---
	90	.025	.011	.030	.038	.030	.030	.030	.030	.012	.045
75	0	-.270	---	-.011	---	.597	---	.698	---	.680	---
	5	.160	---	.132	---	-.100	---	-.279	---	-.640	---
	10	.084	-.408	.045	-.295	-.121	-.109	-.244	.009	-.462	.152
	20	-.001	-.331	-.029	-.254	-.132	-.142	-.239	-.059	-.360	-.050
	30	-.052	-.270	-.061	-.245	-.162	-.154	-.227	-.099	-.310	-.012
	40	-.075	-.249	-.094	-.219	-.173	-.142	-.219	-.109	-.279	-.032
	50	-.080	---	-.090	---	-.142	---	-.179	---	-.212	---
	60	-.078	-.169	-.079	-.149	-.122	-.122	-.148	-.100	-.169	-.062
	70	-.048	-.095	-.049	-.088	-.072	-.072	-.082	-.059	-.099	-.028
	80	-.005	-.025	.008	-.021	-.022	-.022	-.025	-.025	-.029	.008
	90	.100	.050	.120	.056	.110	.044	.109	.050	.113	.059
95	0	.059	---	.318	---	.641	---	.680	---	.605	---
	5	.112	---	.087	---	-.121	---	-.279	---	-.582	---
	10	.027	-.201	-.012	-.136	-.142	-.042	-.242	.019	-.403	.100
	20	-.070	-.201	-.078	-.190	-.142	-.152	-.189	-.111	-.254	-.050
	30	---	-.201	---	-.182	---	-.152	---	-.122	---	-.083
	40	---	---	---	---	---	---	---	---	---	---
	50	-.114	---	-.109	---	-.116	---	-.132	---	-.145	---
	60	-.081	-.085	-.070	-.081	-.088	-.075	-.089	-.082	-.100	-.081
	70	-.051	-.030	-.031	-.029	-.030	-.035	-.029	-.031	-.041	-.039
	80	.002	.021	.019	.025	.030	.029	.022	.020	.015	.018
	90	.049	.059	.060	.072	.050	.059	.060	.059	.042	.055

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	0.649	---	0.503	---	0.382	---	0.289	---
	5	-.609	---	-1.070	---	-1.462	---	-1.697	---
	10	-.503	0.290	-.811	0.398	-1.094	0.492	-1.291	0.557
	20	-.430	.174	-.618	.261	-.830	.340	-.899	.403
	30	-.422	.143	-.556	.214	-.652	.283	-.712	.330
	40	-.392	-.060	-.500	.122	-.590	.188	-.644	.230
	50	-.374	---	-.469	---	-.559	---	-.602	---
	60	-.330	-.002	-.410	.041	-.500	.084	-.550	.117
	70	-.272	-.022	-.348	.018	-.429	.045	-.486	.073
	80	-.200	-.010	-.258	.010	-.332	.030	-.387	.050
	90	-.108	.019	-.152	.026	-.210	.026	-.251	.030
35	0	-.125	---	-.417	---	-.710	---	-.833	---
	5	-1.002	---	-.982	---	-1.019	---	-.908	---
	10	-.721	.250	-.820	.320	-.874	.382	-.780	.498
	20	.550	.135	-.815	.200	-.960	.241	-.870	.355
	30	-.490	.073	-.722	.126	-.902	.158	-.822	.260
	40	-.388	.020	-.607	.066	-.845	.088	-.782	.180
	50	-.325	-.022	-.492	.018	-.797	.025	-.745	.112
	60	-.250	-.022	-.386	-.002	-.720	-.022	-.697	.070
	70	-.168	0	-.290	.009	-.638	-.014	-.640	.050
	80	-.078	.022	-.200	.020	-.532	-.020	-.572	.020
	90	-.008	.048	-.124	.019	-.415	-.070	-.488	-.062
55	0	.191	---	-.056	---	-.130	---	-.255	---
	5	-.138	---	-.240	---	-.221	---	-.212	---
	10	-.796	.230	-.873	.310	-.651	.360	-.600	.399
	20	-.600	.121	-.762	.190	-.641	.224	-.599	.260
	30	-.475	.054	-.657	.106	-.611	.130	-.580	.160
	40	-.381	---	-.542	---	-.570	---	-.570	---
	50	-.300	---	-.431	---	-.530	---	-.550	---
	60	-.220	-.030	-.319	-.019	-.470	-.047	-.514	-.039
	70	-.160	-.009	-.252	-.010	-.460	-.060	-.513	-.078
	80	-.079	---	-.174	---	-.420	---	-.491	---
	90	-.019	.043	-.110	-.001	-.389	-.142	-.470	-.184
75	0	.580	---	.421	---	.420	---	.422	---
	5	-.890	---	-.888	---	-.588	---	-.372	---
	10	-.799	.248	-.870	.312	-.578	.350	-.382	.368
	20	-.602	.127	-.803	.179	-.591	.208	-.389	.213
	30	-.459	.052	-.722	.087	-.528	.108	-.379	.109
	40	-.355	.010	-.631	.038	-.477	.039	-.377	.035
	50	-.249	---	-.490	---	-.326	---	-.342	---
	60	-.192	-.037	-.413	-.037	-.369	-.068	-.358	-.082
	70	-.124	-.021	-.322	-.030	-.318	-.089	-.361	-.110
	80	-.059	.009	-.222	-.009	-.272	-.089	-.351	-.131
	90	.102	.038	.047	.010	.048	-.100	-.020	-.162
95	0	.478	---	.298	---	.163	---	.046	---
	5	-.772	---	-.785	---	-.843	---	-.900	---
	10	-.692	.152	-.743	.195	-.826	.209	-.933	.225
	20	-.512	-.011	-.680	.028	-.791	.018	-.977	.029
	30	---	-.061	---	-.042	---	-.055	---	-.042
	40	---	---	---	---	---	---	---	---
	50	-.363	---	-.338	---	-.399	---	-.279	---
	60	-.120	-.072	-.229	-.087	-.290	-.128	-.246	-.145
	70	-.070	-.036	-.143	-.058	-.196	-.100	-.225	-.129
	80	-.032	.009	-.090	-.018	-.149	-.069	-.206	-.092
	90	.008	.029	-.052	.002	-.119	-.056	-.176	-.088

NACA

TABLE VI.– CONTINUED

(e) M,0.80.

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	8 Upper surface	8 Lower surface
12.5	0	-0.119	---	0.211	---	0.598	---	0.742	---	0.750	---	0.681	---	0.599	---
	5	.219	---	.160	---	.021	---	-.122	---	-.332	---	-.620	---	-.880	---
	10	.150	-0.290	.101	-0.230	0	-0.072	-.120	0.043	-.290	0.174	-.509	0.284	-.789	0.379
	20	.062	-.293	.020	-.240	-.065	-.118	-.158	-.028	-.284	.080	-.450	.172	-.619	.249
	30	.003	-.263	-.036	-.215	-.119	-.103	-.199	-.030	-.317	.060	-.461	.135	-.604	.202
	40	-.037	-.301	-.076	-.260	-.140	-.162	-.216	-.055	-.321	-.014	-.440	.058	-.568	.113
	50	-.076	---	-.107	---	-.160	---	-.230	---	-.329	---	-.427	---	-.493	---
	60	-.085	-.285	-.112	-.253	-.160	-.177	-.214	-.125	-.296	-.067	-.375	-.011	-.465	.030
	70	-.082	-.250	-.110	-.232	-.147	-.168	-.191	-.121	-.254	-.078	-.315	-.030	-.354	.006
	80	-.052	-.187	-.079	-.170	-.103	-.120	-.140	-.090	-.185	-.055	-.229	-.020	-.250	.010
	90	-.024	-.097	-.037	-.083	-.050	-.050	-.070	-.032	-.100	-.015	-.123	.007	-.139	.020
35	0	.422	---	.608	---	.703	---	.608	---	.288	---	-.015	---	-.248	---
	5	.202	---	.118	---	-.072	---	-.266	---	-.632	---	-1.348	---	-1.548	---
	10	.122	-.413	.062	-.392	-.065	-.180	-.192	-.023	-.370	.127	-.890	.230	-1.222	.330
	20	0	-.350	-.042	-.357	-.150	-.198	-.232	-.064	-.399	.035	-.512	.120	-1.005	.205
	30	-.035	-.340	-.048	-.340	-.175	-.210	-.262	-.118	-.379	-.017	-.480	.055	-.651	.133
	40	-.080	-.322	-.090	-.333	-.199	-.222	-.265	-.140	-.358	-.060	-.428	0	-.432	.070
	50	-.112	-.297	-.164	-.312	-.198	-.220	-.252	-.158	-.320	-.088	-.370	-.038	-.331	.020
	60	-.088	-.230	-.112	-.250	-.160	-.180	-.192	-.130	-.242	-.078	-.271	-.040	-.250	.008
	70	-.056	-.148	-.080	-.167	-.105	-.108	-.130	-.080	-.163	-.040	-.178	-.020	-.170	.014
	80	-.010	-.048	-.025	-.088	-.038	-.048	-.054	-.025	-.072	-.002	-.084	.008	-.085	.030
	90	.020	.010	.010	-.014	.015	.010	.015	.030	.002	.046	-.008	.032	-.007	.046
55	0	.154	---	.396	---	.650	---	.673	---	.497	---	.243	---	.040	---
	5	.028	---	.139	---	.100	---	.031	---	-.040	---	-.261	---	-.400	---
	10	.094	-.369	.048	-.369	-.108	-.179	-.259	-.026	-.417	.140	-.1158	.239	-.1400	.318
	20	-.003	-.361	-.030	-.321	-.143	-.185	-.257	-.076	-.375	.044	-.521	.122	-.995	.192
	30	-.041	-.320	-.080	-.299	-.169	-.199	-.250	-.110	-.346	.000	-.380	.059	-.591	.120
	40	-.079	---	-.101	---	-.179	---	-.248	---	-.309	---	-.350	---	-.439	---
	50	-.095	---	-.119	---	-.171	---	-.229	---	-.270	---	-.300	---	-.333	---
	60	-.071	-.193	-.085	-.193	-.130	-.149	-.161	-.114	-.190	-.054	-.209	-.030	-.240	.007
	70	-.046	-.120	-.060	-.117	-.083	-.084	-.084	-.060	-.120	-.023	-.140	.000	-.170	.021
	80	-.002	---	-.014	---	-.019	---	-.032	---	-.036	---	-.052	---	-.087	---
	90	.035	.030	.030	.030	.030	.030	.035	.031	.059	.018	.050	-.017	.050	
75	0	-.232	---	-.038	---	.500	---	.687	---	.689	---	.591	---	.476	---
	5	.189	---	.131	---	-.098	---	-.289	---	-.778	---	-1.371	---	-1.391	---
	10	.078	-.346	.042	-.370	-.091	-.160	-.259	-.009	-.452	.149	-1.197	.251	-1.259	.310
	20	.009	-.350	-.042	-.320	-.132	-.170	-.259	-.073	-.369	.051	-.510	.129	-.820	.180
	30	.045	-.301	-.089	-.291	-.149	-.190	-.249	-.118	-.328	-.015	-.352	.051	-.534	.100
	40	-.072	-.269	-.118	-.268	-.170	-.175	-.240	-.124	-.292	-.040	-.315	.007	-.420	.040
	50	-.088	---	-.118	---	-.149	---	-.199	---	-.223	---	-.245	---	-.327	---
	60	-.079	-.170	-.112	-.188	-.130	-.132	-.162	-.120	-.175	-.065	-.193	-.045	-.278	-.030
	70	-.048	-.098	-.080	-.116	-.079	-.075	-.108	-.075	-.118	-.040	-.117	-.026	-.200	-.009
	80	-.010	-.020	-.030	-.033	-.010	-.011	-.038	-.010	-.031	.009	-.048	.005	-.132	-.010
	90	.105	.041	.109	.031	.106	.055	.115	.045	.116	.056	.108	.045	.095	.006
95	0	.089	---	.305	---	.612	---	.693	---	.618	---	.458	---	.359	---
	5	.138	---	.105	---	-.092	---	.282	---	-.673	---	-1.225	---	-.912	---
	10	.035	-.193	-.002	-.167	-.140	-.069	-.250	.019	-.439	.113	-.810	.169	-.810	.198
	20	-.070	-.182	-.081	-.210	-.151	-.168	-.194	-.120	-.249	-.054	-.481	-.016	-.671	.079
	30	---	-.198	---	-.209	---	-.168	---	-.135	---	-.088	---	-.062	---	-.046
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.112	---	-.115	---	-.120	---	-.130	---	-.153	---	-.177	---	-.299	---
	60	-.080	-.098	-.079	-.081	-.092	-.089	-.097	-.100	-.101	-.069	-.131	-.070	-.213	-.085
	70	-.046	-.030	-.040	-.041	-.025	-.029	-.030	-.031	-.042	-.028	-.080	-.029	-.140	-.050
	80	.018	.029	.019	.024	.035	.030	.032	.035	.020	.018	-.035	.019	-.100	-.116
	90	.045	.061	.054	.069	.060	.072	.065	.070	.052	.051	.013	.042	-.060	-.072

(f) M,0.82.

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	8 Upper surface	8 Lower surface
12.5	0	-0.108	---	0.230	---	0.585	---	0.728	---	0.758	---	0.705	---	0.534	---
	5	.257	---	.164	---	.030	---	-.116	---	-.325	---	-.617	---	-.810	---
	10	.188	-0.298	.112	-0.225	.010	-0.080	-.120	0.034	-.289	0.163	-.520	0.302	-.672	0.369
	20	.090	-.289	.023	-.238	-.060	-.130	-.158	-.037	-.290	.070	-.453	.185	-.588	.240
	30	.029	-.266	-.035	-.212	-.111	-.111	-.200	-.035	-.322	.052	-.470	.152	-.564	.198
	40	-.013	-.300	-.072	-.262	-.140	-.175	-.220	-.107	-.330	-.022	-.459	.072	-.558	.109
	50	-.050	---	-.103	---	-.168	---	-.248	---	-.340	---	-.464	---	-.570	---
	60	-.063	-.293	-.113	-.267	-.169	-.190	-.228	-.144	-.311	-.073	-.413	.052	-.550	.068
	70	-.065	-.252	-.105	-.240	-.152	-.180	-.210	-.142	-.276	-.088	-.330	-.018	-.415	0.
	80	-.017	-.185	-.068	-.170	-.117	-.133	-.185	-.101	-.214	-.061	-.245	-.007	-.272	.008
	90	-.096	-.087	-.040	-.089	-.062	-.057	-.088	-.057	-.107	-.020	-.120	.017	-.135	.020
35	0	.452	---	.625	---	.726	---	.625	---	.320	---	.022	---	-.168	---
	5	.230	---	.125	---	-.092	---	-.260	---	-.654	---	-1.310	---	-1.430	---
	10	.150	-.400	.072	-.372	-.052	-.182	-.192	-.040	-.372	.110	-.792	.244	-1.150	.310
	20	.028	-.390	-.031	-.337	-.142	-.202	-.260	-.098	-.408	.019	-.560	.132	-.990	.180
	30	-.007	-.342	-.083	-.323	-.172	-.215	-.270	-.130	-.352	-.032	-.522	.065	-.725	.112
	40	-.050	-.322	-.118	-.315	-.200	-.225	-.278	-.158	-.375	-.078	-.450	.010	-.603	.050
	50	-.080	-.294	-.140	-.292	-.198	-.222	-.260	-.168	-.330	-.108	-.362	-.030	-.372	0
	60	-.060	-.220	-.110	-.230	-.181	-.188	-.203	-.142	-.250	-.092	-.260	-.052	-.250	-.010
	70	-.029	-.132	-.070	-.146	-.105	-.105	-.133	-.083	-.170	-.058	-.170	-.009	-.160	.008
	80	.016	-.030	-.017	-.066	-.102	-.042	-.054	-.030	-.078	-.018	-.078	.017	-.075	.027
	90	.052	.017	.029	.010	.022	.025	.010	.012	0	.005	.002	.042	0.	.045
55	0	.153	---	.430	---	.657	---	.640	---	.523	---	.260	---	1.15	---
	5	-.072	---	.139	---	.099	---	.024	---	-.069	---	-.289	---	-.143	---
	10	.081	-.400	.045	-.370	-.092	-.187	-.249	-.021	-.499	.129	-1.170	.234	-1.320	.289
	20	-.020	-.400	-.026	-.330	-.131	-.191	-.243	-.078	-.374	.040	-.865	.137	-1.120	.170
	30	-.050	-.369	-.077	-.300	-.159	-.200	-.230	-.107	-.357	-.011	-.395	.060	-.614	.094
	40	-.092	---	-.101	---	-.170	---	-.241	---	-.339	---	-.392	---	-.507	---
	50	-.108	---	-.116	---	-.170	---	-.221	---	-.272	---	-.289	---	-.379	---
	60	-.081	-.229	-.081	-.191	-.123	-.150	-.160	-.110	-.189	-.068	-.209	-.020	-.247	-.010
	70	-.063	-.146	-.054	-.111	-.073	-.080	-.095	-.096	-.120	-.022	-.142	-.001	-.158	.005
	80	-.030	---	.000	---	-.009	---	-.038	---	-.040	---	-.052	---	-.070	---
	90	.014	.001	.040	.038	.040	.040	.040	.040	.031	0.50	.011	.055	-.002	.058
75	0	-.230	---	.016	---	.493	---	.702	---	.697	---	.591	---	.517	---
	5	.212	---	.143	---	-.042	---	.279	---	-.830	---	-1.346	---	-1.372	---
	10	.112	-.377	.059	-.361	-.081	-.166	-.247	-.012	-.515	.138	-1.199	.257	-1.237	.309
	20	.026	-.342	-.027	-.309	-.129	-.180	-.252	-.077	-.370	.040	-.842	.133	-1.002	.175
	30	.023	-.328	-.072	-.292	-.150	-.198	-.242	-.118	-.338	-.025	-.379	.056	-.749	.065
	40	-.098	-.267	-.105	-.258	-.166	-.180	-.239	-.128	-.301	-.052	-.261	.019	-.410	.045
	50	-.071	---	-.103	---	-.147	---	-.192	---	-.240	---	-.218	---	-.280	---
	60	-.070	-.160	-.092	-.173	-.125	-.130	-.152	-.117	-.184	-.080	-.230	-.025	-.230	-.025
	70	-.039	-.090	-.061	-.099	-.089	-.082	-.090	-.078	-.112	-.050	-.113	-.020	-.170	-.020
	80	.000	-.012	-.016	-.028	-.015	-.010	-.028	-.010	-.032	-.002	-.039	.019	-.095	-.004
	90	.115	.059	.115	.050	.120	.050	.115	.050	.108	.049	.109	.059	.107	.026
95	0	.159	---	.320	---	.614	---	.698	---	.622	---	.463	---	.360	---
	5	.163	---	.098	---	-.078	---	-.268	---	-.799	---	-1.217	---	-1.042	---
	10	.061	-.148	-.010	-.147	-.130	-.099	-.262	.030	-.410	.109	-1.019	.171	-.888	.192
	20	-.050	-.190	-.100	-.182	-.148	-.160	-.201	-.120	-.262	-.069	-.498	-.010	-.649	-.002
	30	---	-.181	---	-.190	---	-.174	---	-.128	---	-.093	---	-.061	---	-.062
	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.096	---	-.121	---	-.128	---	-.142	---	-.167	---	-.152	---	-.279	---
	60	-.092	-.073	-.082	-.091	-.091	-.072	-.089	-.075	-.111	-.072	-.125	-.064	-.210	-.088
	70	-.018	-.012	-.031	-.021	-.021	-.019	-.021	-.019	-.054	-.025	-.079	-.024	-.145	-.055
	80	.030	.049	.020	.041	.032	.049	.035	.033	.009	.030	-.029	.016	-.105	-.012
	90	.071	.082	.070	.085	.088	.089	.085	.089	.060	.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	-0.064	---	0.302	---	0.618	---	0.762	---	0.665	---	0.727	---
	5	.250	---	.160	---	.020	---	-.132	---	-.425	---	-.588	---
	10	.179	-0.324	.110	-0.203	-.006	-0.042	-.132	0.071	-.389	0.088	-.515	0.298
	20	.078	-.322	.025	-.226	-.066	-.065	-.165	-.006	-.392	-.012	-.448	-.180
	30	.010	-.300	-.034	-.203	-.089	-.088	-.210	-.011	-.430	-.027	-.478	.142
	40	-.025	-.340	-.068	-.258	-.146	-.150	-.232	-.081	-.443	-.102	-.478	.062
	50	-.070	---	-.101	---	-.172	---	-.256	---	-.469	---	-.500	---
	60	-.084	-.350	-.113	-.272	-.172	-.178	-.247	-.121	.447	-.166	-.502	-.012
	70	-.087	-.308	-.110	-.247	-.160	-.165	-.222	-.123	-.397	-.179	-.438	-.032
	80	-.062	-.220	-.080	-.182	-.118	-.120	-.162	-.092	-.315	-.158	-.272	-.020
	90	-.032	-.118	-.045	-.088	-.038	-.053	.072	-.037	-.210	-.037	-.139	.002
35	0	.469	---	.654	---	.722	---	.600	---	.334	---	.043	---
	5	.217	---	.120	---	-.082	---	-.292	---	-.770	---	-1.270	---
	10	.135	-.424	.072	-.418	-.067	-.145	-.210	0	-.372	.128	-.980	.190
	20	.010	-.447	-.033	-.393	-.158	-.172	-.280	-.068	-.440	.030	-.710	.082
	30	-.028	-.412	-.082	-.390	-.184	-.192	-.295	-.109	-.442	-.030	-.600	.010
	40	-.078	-.389	-.120	-.367	-.208	-.206	-.300	-.140	-.422	-.073	-.630	-.046
	50	-.103	-.342	-.140	-.368	-.203	-.212	-.280	-.158	-.358	-.106	-.528	-.088
	60	-.080	-.260	-.122	-.298	-.161	-.168	-.212	-.133	-.264	-.100	-.302	-.088
	70	-.050	-.166	-.065	-.203	-.106	-.100	-.145	-.082	-.178	-.060	-.218	-.065
	80	-.006	-.060	-.028	-.100	-.032	-.047	-.062	-.062	-.064	-.025	-.126	-.040
	90	.030	.010	.038	-.038	.030	.020	.002	.027	-.015	.012	-.052	.001
55	0	.211	---	.457	---	.690	---	.670	---	.508	---	.302	---
	5	-.020	---	.115	---	.087	---	.020	---	-.146	---	-.336	---
	10	.100	-.627	.031	-.383	-.119	-.144	-.290	.008	-.690	.130	-.1180	.218
	20	0	-.381	-.041	-.330	-.148	-.161	-.279	-.051	-.421	.031	-.981	.110
	30	-.035	-.356	-.086	-.310	-.170	-.175	-.274	-.090	-.399	-.029	-.695	.038
	40	-.070	---	-.119	---	-.180	---	-.261	---	-.360	---	-.400	---
	50	-.089	---	-.120	---	-.172	---	-.237	---	-.310	---	-.283	---
	60	-.059	-.201	-.091	-.199	-.121	-.131	-.167	-.100	-.219	-.074	-.207	-.049
	70	-.040	-.119	-.060	-.111	-.070	-.060	-.103	-.103	-.145	-.037	-.143	-.020
	80	.008	---	-.003	---	0	---	-.023	---	-.060	---	-.060	---
	90	.045	.035	.036	.035	.057	.065	.040	.057	.011	.040	.010	.010
75	0	-.209	---	.095	---	.581	---	.720	---	.705	---	.623	---
	5	.180	---	.141	---	-.062	---	-.288	---	-.991	---	-1.296	---
	10	.098	-.750	.055	-.362	-.089	-.112	-.272	.030	-.702	.156	-1.162	.248
	20	.007	-.346	-.027	-.298	-.132	-.132	-.270	-.042	-.363	.056	-.979	.128
	30	-.041	-.319	-.065	-.279	-.146	-.159	-.251	-.089	-.341	-.013	-.467	.054
	40	-.072	-.288	-.100	-.247	-.162	-.145	-.240	-.102	-.312	-.045	-.329	.008
	50	-.087	---	-.099	---	-.132	---	-.192	---	-.241	---	-.200	---
	60	-.079	-.181	-.089	-.162	-.118	-.119	-.152	-.100	-.186	-.080	-.145	-.039
	70	-.050	-.105	-.059	.090	-.055	-.059	-.088	-.050	-.109	-.045	-.087	-.022
	80	-.010	-.025	.002	-.010	.013	.001	-.009	.003	-.040	-.001	-.021	.015
	90	.122	.046	.136	.062	.142	.082	.137	.065	.119	.053	.123	.055
95	0	.118	---	.374	---	.699	---	.693	---	.619	---	.490	---
	5	.144	---	.099	---	-.104	---	-.111	---	-.958	---	-1.271	---
	10	.038	-.250	-.012	-.162	-.139	-.039	-.286	.045	-.652	.110	-1.138	.165
	20	-.079	-.159	-.091	-.194	-.142	-.153	-.211	-.116	-.218	-.075	-.479	-.029
	30	---	-.211	---	-.203	---	-.149	---	-.125	---	-.102	---	-.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	-.025	-.010	-.009	-.019	-.012	-.055	-.024	-.072	-.025
	80	.012	.019	.030	.041	.050	.052	.040	.039	.004	.027	-.028	.019
	90	.056	.062	.085	.080	.081	.096	.080	.088	.060	.062	.020	.046

(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	-0.020	---	0.347	---	0.636	---	0.747	---	0.782	---	0.752	---
	5	.262	---	.140	---	.029	---	-.088	---	-.287	---	-.523	---
	10	.194	-0.304	.089	-0.199	.001	-0.058	-.092	0.033	-.257	0.162	-.457	0.310
	20	.096	-.301	0	-.230	-.063	-.124	-.140	-.038	-.275	.069	-.412	.190
	30	.089	-.283	-.060	-.210	-.120	-.100	-.190	-.036	-.318	.050	-.440	.160
	40	-.015	-.329	-.099	-.267	-.150	-.162	-.217	-.107	-.337	-.025	-.440	.073
	50	-.059	---	-.132	---	-.180	---	-.247	---	-.366	---	-.472	---
	60	-.072	-.367	-.143	-.300	-.184	-.183	-.247	-.152	-.374	-.087	-.487	-.001
	70	-.079	-.322	-.148	-.280	-.178	-.188	-.232	-.153	-.342	-.100	-.500	-.025
	80	-.054	-.220	-.116	-.210	-.143	-.143	-.172	-.118	-.240	-.078	-.367	-.012
	90	-.020	-.102	-.066	-.122	-.065	-.065	-.088	-.065	-.122	-.032	-.142	.013
35	0	.494	---	.678	---	.720	---	.644	---	.410	---	.187	---
	5	.211	---	.088	---	-.075	---	-.237	---	-.625	---	-1.150	---
	10	.136	-.509	.043	-.360	-.068	-.172	-.178	-.068	-.355	.100	-.864	.210
	20	.008	-.518	-.067	-.350	-.160	-.200	-.258	-.122	-.402	.008	-.700	.100
	30	-.027	-.500	-.112	-.352	-.198	-.220	-.280	-.160	-.430	-.040	-.540	.012
	40	-.078	-.512	-.155	-.364	-.225	-.243	-.298	.186	-.442	-.087	-.583	-.025
	50	-.114	-.427	-.170	-.335	-.220	-.240	-.278	-.205	-.370	-.120	-.622	-.060
	60	-.078	-.318	-.130	-.260	-.176	-.190	-.208	-.167	-.238	-.100	-.373	-.062
	70	-.043	-.220	-.085	-.165	-.112	-.112	-.135	-.102	-.152	-.059	-.102	-.035
	80	.002	-.110	-.028	-.080	-.048	-.042	-.053	-.060	-.049	-.020	-.050	.002
	90	.040	-.046	.020	0	.020	-.018	.015	.020	.022	.040	.030	.030
55	0	.232	---	.498	---	.662	---	.680	---	.571	---	.356	---
	5	-.052	---	.101	---	.069	---	.017	---	-.062	---	-.261	---
	10	.082	-.731	.001	-.398	-.131	-.193	-.269	-.060	-.558	.221	-.1014	.110
	20	-.018	-.412	-.069	-.340	-.170	-.202	-.271	-.110	-.412	.025	-.913	.119
	30	-.051	-.350	-.114	-.319	-.193	-.220	-.280	-.142	-.387	-.022	-.790	.050
	40	-.079	---	-.140	---	-.208	---	-.269	---	-.334	---	-.530	---
	50	-.093	---	-.150	---	-.202	---	-.248	---	-.283	---	-.279	---
	60	-.062	-.204	-.111	-.209	-.150	-.160	-.183	-.130	-.199	-.071	-.160	-.032
	70	-.040	-.103	-.080	-.121	-.100	-.100	-.120	-.074	-.115	-.028	-.100	0
	80	.009	---	-.020	---	-.021	---	-.030	---	-.030	---	-.027	---
	90	.049	.030	.021	.020	.030	.030	.029	.029	.029	.068	.025	.059
75	0	-.163	---	.162	---	.541	---	.702	---	.708	---	.631	---
	5	.170	---	.109	---	-.072	---	-.259	---	-.784	---	-1.192	---
	10	.085	-.780	.029	-.372	-.108	-.170	-.236	-.020	-.589	.179	-1.082	.239
	20	-.002	-.326	-.054	-.304	-.158	-.180	-.252	-.081	-.415	.038	-.952	.120
	30	-.040	-.290	-.095	-.290	-.171	-.202	-.245	-.122	-.312	.029	-.702	.050
	40	-.070	-.279	-.129	-.260	-.189	-.189	-.238	-.133	-.292	-.054	-.378	.007
	50	-.078	---	-.121	---	-.163	---	-.198	---	-.227	---	-.238	---
	60	-.072	-.169	-.112	-.172	-.150	-.145	-.160	-.119	-.169	-.080	-.141	-.042
	70	-.041	-.088	-.078	-.098	-.078	-.082	-.089	-.069	-.092	-.045	-.061	-.021
	80	.003	-.012	-.019	-.019	-.014	-.012	-.018	-.005	-.018	.004	-.005	.018
	90	.139	.059	.131	.058	.132	.059	.130	.059	.120	.060	.124	.060
95	0	.140	---	.410	---	.640	---	.698	---	.645	---	.319	---
	5	.120	---	.060	---	-.108	---	-.271	---	-.778	---	-1.181	---
	10	.029	-.430	-.050	-.182	-.161	-.069	-.270	.021	-.604	.102	-1.098	.160
	20	-.089	-.099	-.132	-.196	-.180	-.176	-.210	-.140	-.198	-.101	-.605	-.052
	30	---	-.178	---	-.210	---	-.170	---	-.140	---	-.120	---	-.101
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.120	---	-.140	---	-.145	---	-.140	---	-.154	---	-.120	---
	60	-.079	-.089	-.095	-.089	-.090	-.099	-.082	-.070	-.100	-.070	-.099	-.069
	70	-.039	-.025	-.030	-.030	-.027	-.018	-.020	-.010	-.038	-.025	-.059	-.026
	80	.019	.030	.018	.042	.031	.045	.040	.050	.030	.022	-.012	.035
	90	.065	.075	.058	.085	.064	.089	.090	.085	.070	.071	.025	.047

NACA

TABLE VI.- CONTINUED

(i) M,0.88.

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	0.032	---	0.347	---	0.624	---	0.760	---	0.800	---	0.760	---
	5	.273	---	.177	---	.058	---	-.102	---	-.287	---	-.497	---
	10	.205	-0.282	.130	-0.180	.028	-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	-.202	-.027	-.309	.079	-.427	.152
	40	-.008	-.318	-.064	-.252	-.136	-.168	-.230	-.092	-.326	.002	-.435	.068
	50	-.049	---	-.100	---	-.172	---	-.270	---	-.355	---	-.462	---
	60	-.068	-.379	-.115	-.314	-.180	-.220	-.284	-.152	-.388	-.068	-.480	-.017
	70	-.078	-.390	-.122	-.307	-.177	-.210	-.274	-.154	-.402	-.082	-.508	-.040
	80	-.060	-.289	-.097	-.211	-.140	-.157	-.219	-.120	-.335	-.060	-.512	-.030
	90	-.020	-.110	-.089	-.090	-.065	-.062	-.100	-.054	-.130	-.022	-.280	-.002
35	0	.530	---	.695	---	.152	---	.635	---	.400	---	.120	---
	5	.218	---	.100	---	-.064	---	-.274	---	-.743	---	-1.258	---
	10	.142	-.410	.050	-.384	-.070	-.196	-.208	-.078	-.410	.130	-.998	.082
	20	.018	-.440	-.065	-.382	-.168	-.225	-.292	-.145	-.431	.035	-.822	.018
	30	-.025	-.427	-.110	-.393	-.203	-.250	-.329	-.176	-.458	-.022	-.690	-.050
	40	-.076	-.465	-.158	-.429	-.243	-.280	-.358	-.218	-.500	-.072	-.700	-.108
	50	-.110	-.515	-.180	-.428	-.240	-.280	-.337	-.235	-.530	-.100	-.772	-.150
	60	-.090	-.282	-.140	-.272	-.200	-.214	-.231	-.231	-.528	-.088	-.750	-.120
	70	-.040	-.140	-.097	-.170	-.133	-.175	-.134	-.133	-.150	-.040	-.374	-.150
	80	.002	-.040	-.035	-.085	-.042	-.060	-.080	-.080	-.084	0	-.170	-.113
	90	.040	.028	.012	-.010	.010	.012	-.022	-.022	-.022	.099	-.077	-.077
55	0	.300	---	.490	---	.661	---	.684	---	.552	---	.410	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	.101	-.708	.034	-.400	-.190	-.222	-.307	-.038	-.689	.110	-1.020	.210
	20	.002	-.422	-.040	-.379	-.173	-.241	-.320	-.100	-.500	.020	-.909	.105
	30	-.031	-.456	-.086	-.360	-.210	-.250	-.318	-.136	-.505	-.041	-.795	.040
	40	-.072	---	-.120	---	-.220	---	-.298	---	-.481	---	-.659	---
	50	-.081	---	-.130	---	-.215	---	-.270	---	-.301	---	-.571	---
	60	-.059	-.181	-.092	-.200	-.180	-.160	-.200	-.131	-.207	-.088	-.200	-.040
	70	-.030	-.098	-.060	-.108	-.109	-.109	-.181	-.070	-.131	-.041	-.121	-.005
	80	.022	---	.000	---	-.030	---	-.150	---	-.050	---	-.015	---
	90	.065	.050	.065	.050	.020	.011	.130	.130	.130	.130	.150	.165
75	0	-.107	---	.131	---	.521	---	.723	---	.720	---	.667	---
	5	.198	---	.132	---	-.059	---	-.352	---	-.864	---	-1.139	---
	10	.169	-.771	.042	-.438	-.054	-.182	-.259	.001	-.762	.152	-1.032	.230
	20	.012	-.555	-.041	-.333	-.153	-.199	-.288	-.062	-.607	.050	-.970	.112
	30	-.038	-.268	-.088	-.312	-.168	-.222	-.269	-.114	-.362	-.015	-.878	.040
	40	-.069	-.252	-.116	-.273	-.192	-.209	-.265	-.122	-.265	-.040	-.468	.000
	50	-.080	---	-.120	---	-.168	---	-.210	---	-.205	---	-.288	---
	60	-.069	-.160	-.103	-.177	-.148	-.160	-.162	-.119	-.150	-.072	-.210	-.042
	70	-.039	-.081	-.065	-.099	-.078	-.081	-.088	-.069	-.078	-.040	-.075	-.020
	80	.010	-.006	-.005	-.019	-.005	-.007	-.011	.009	-.011	.015	.015	.020
	90	.148	.069	.110	.057	.132	.060	.139	.062	.142	.069	.140	.070
95	0	.200	---	.389	---	.627	---	.701	---	.650	---	.546	---
	5	.157	---	.055	---	-.092	---	-.362	---	-.841	---	-1.110	---
	10	.050	-.451	-.022	-.182	-.155	-.072	-.310	.033	-.802	.119	-1.073	.160
	20	-.073	-.068	-.120	-.160	-.180	-.180	-.219	-.146	-.337	-.090	-.916	-.060
	30	---	-.123	---	-.175	---	-.180	---	-.146	---	-.112	---	-.131
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.099	---	-.122	---	-.140	---	-.141	---	-.137	---	-.085	---
	60	-.059	-.072	-.085	-.078	-.080	-.075	-.082	-.080	-.098	-.070	-.079	-.078
	70	-.008	-.019	-.015	-.005	-.014	-.009	-.021	0	-.030	-.010	-.050	-.034
	80	-.045	.051	.030	.060	.046	.060	.039	.052	.025	.049	-.020	.025
	90	-.080	.089	.080	.099	.085	.099	.094	.099	.070	.079	.026	.055

(j) M,0.90.

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	---	0.415	---	0.669	---	0.777	---	0.810	---	0.775	---
	5	.280	---	.150	---	.040	---	-.098	---	-.270	---	-.479	---
	10	.209	-0.272	.100	-0.162	.010	-0.029	-.099	0.081	-.242	0.200	-.420	0.315
	20	.107	-.290	.020	-.200	-.055	-.091	-.148	-.001	-.250	.102	-.385	.194
	30	.038	-.259	-.045	-.190	-.112	-.092	-.190	-.013	-.296	.080	-.409	.160
	40	-.008	-.310	-.085	-.250	-.147	-.160	-.228	-.087	-.313	.007	-.415	.078
	50	-.057	---	-.130	---	-.190	---	-.271	---	-.348	---	-.450	---
	60	-.075	-.376	-.148	-.325	-.210	-.232	-.300	-.149	-.378	-.075	-.468	-.015
	70	-.088	-.398	-.158	-.345	-.220	-.240	-.318	-.162	-.408	-.092	-.492	-.045
	80	-.075	-.390	-.132	-.311	-.188	-.189	-.297	-.125	-.419	-.078	-.518	-.038
	90	-.034	-.215	-.067	-.135	-.082	-.082	-.139	-.057	-.238	-.030	-.424	.022
35	0	.567	---	.694	---	.735	---	.648	---	.440	---	.250	---
	5	.212	---	.080	---	-.082	---	-.276	---	-.710	---	-1.022	---
	10	.136	-.388	.038	-.320	-.082	-.166	-.209	-.013	-.410	.119	-.800	.225
	20	.018	-.418	-.080	-.330	-.182	-.210	-.295	-.088	-.412	.028	-.716	.112
	30	-.032	-.410	-.128	-.349	-.226	-.242	-.335	-.132	-.437	-.032	-.493	.044
	40	-.085	-.443	-.178	-.400	-.275	-.288	-.386	-.172	-.486	-.087	-.540	-.015
	50	-.122	-.520	-.200	-.468	-.280	-.308	-.423	-.200	-.548	-.118	-.610	-.062
	60	-.100	-.508	-.150	-.384	-.218	-.293	-.322	-.160	-.517	-.107	-.620	-.063
	70	-.095	-.212	-.090	-.140	-.120	-.118	-.140	-.140	-.260	-.060	-.560	-.034
	80	0	-.032	-.015	-.052	-.048	-.042	-.042	-.042	-.070	-.015	-.143	0
	90	.040	.022	.035	.038	.014	.030	.014	.015	.015	.038	-.020	.040
55	0	.356	---	.544	---	.678	---	.688	---	.600	---	.460	---
	5	.028	---	.111	---	.070	---	-.007	---	-.107	---	-.225	---
	10	.100	-.670	-.010	-.381	-.150	-.198	-.319	-.023	-.622	.127	-.520	.212
	20	.000	-.408	-.080	-.387	-.191	-.221	-.342	-.090	-.473	.040	-.849	.109
	30	-.040	-.460	-.126	-.403	-.220	-.241	-.365	-.120	-.460	-.010	-.781	.040
	40	-.089	---	-.150	---	-.227	---	-.358	---	-.500	---	-.710	---
	50	-.095	---	-.160	---	-.217	---	-.272	---	-.500	---	-.625	---
	60	-.058	-.158	-.117	-.191	-.150	-.170	-.170	-.125	-.185	-.060	-.446	-.031
	70	-.038	-.062	-.079	-.113	-.100	-.089	-.100	-.060	-.075	-.015	-.148	.005
	80	.027	---	-.018	---	-.038	---	-.015	---	.002	---	-.038	---
	90	.070	.070	.040	.040	.040	.045	.043	.040	.050	.076	.040	.070
75	0	-.034	---	.220	---	.573	---	.732	---	.728	---	.689	---
	5	.192	---	.094	---	-.084	---	-.421	---	-.840	---	-1.055	---
	10	.100	-.724	-.015	-.425	-.118	-.170	-.287	.027	-.710	.144	-.931	.228
	20	.007	-.624	-.070	-.349	-.171	-.189	-.315	-.050	-.622	.046	-.901	.114
	30	-.054	-.435	-.113	-.338	-.185	-.220	-.282	-.099	-.535	-.016	-.857	.043
	40	-.075	-.325	-.147	-.285	-.201	-.209	-.267	-.110	-.192	-.041	-.807	.002
	50	-.080	---	-.141	---	-.178	---	-.211	---	-.178	---	-.329	---
	60	-.073	-.122	-.131	-.188	-.161	-.153	-.159	-.108	-.108	-.075	-.279	-.039
	70	-.041	-.056	-.080	-.099	-.080	-.080	-.070	-.058	-.050	-.039	-.190	-.018
	80	.010	.010	-.019	-.018	-.009	-.008	.002	.017	.019	.021	-.045	.034
	90	.159	.081	.118	.068	.119	.075	.125	.082	.131	.081	.141	.081
95	0	.232	---	.445	---	.662	---	.713	---	.692	---	.581	---
	5	.137	---	.062	---	-.100	---	-.405	---	-.791	---	-.988	---
	10	.037	-.430	-.050	-.189	-.171	-.060	-.319	.050	-.776	.119	-.988	.162
	20	-.111	-.340	-.162	-.241	-.218	-.211	-.277	-.169	-.559	-.109	-.921	-.057
	30	---	-.030	---	-.177	---	-.182	---	-.150	---	-.143	---	-.133
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.099	---	-.134	---	-.131	---	-.129	---	-.102	---	-.057	---
	60	-.065	-.066	-.091	-.071	-.065	-.072	-.069	-.072	-.080	-.060	-.032	-.065
	70	-.012	-.009	-.020	-.009	-.008	-.016	.001	.005	-.021	.009	-.015	-.018
	80	.040	.052	.030	.056	.055	.059	.060	.060	.030	.050	.009	.039
	90	.082	.075	.080	.098	.091	.101	.099	.105	.080	.089	.040	.070

NACA

TABLE VI.- CONCLUDED

(k) M,0.92.

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	0.172	---	0.419	---	0.664	---	0.784	---	0.815	---	0.815	---
	5	.258	---	.160	---	.040	---	-.082	---	-.268	---	-.392	---
	10	.190	-0.209	.110	-0.166	.012	-0.038	-.088	0.082	-.239	0.207	-.352	0.312
	20	.098	-.239	.020	-.200	-.059	-.097	-.135	.002	-.289	.100	-.330	.195
	30	.028	-.219	-.049	-.190	-.115	-.109	-.187	-.012	-.290	.078	-.360	.165
	40	-.015	-.267	-.069	-.248	-.158	-.169	-.217	-.082	-.308	.002	-.368	.079
	50	-.070	---	-.136	---	-.205	---	-.260	---	-.348	---	-.402	---
	60	-.090	-.338	-.169	-.327	-.229	-.252	-.298	-.165	-.374	-.090	-.426	-.020
	70	-.110	-.362	-.182	-.395	-.251	-.277	-.320	-.182	-.402	-.110	-.450	-.093
	80	-.104	-.364	-.180	-.397	-.254	-.262	-.340	-.192	-.428	-.098	-.478	-.060
	90	-.060	-.297	-.106	-.280	-.150	-.140	-.227	-.075	-.360	-.066	-.437	-.043
35	0	.596	---	.690	---	-.174	---	.670	---	.468	---	.321	---
	5	.158	---	.067	---	.370	---	-.268	---	-.715	---	-.930	---
	10	.098	-.347	.025	-.332	-.298	-.158	-.200	-.022	-.448	.115	-.700	.198
	20	-.038	-.378	-.090	-.342	-.283	-.207	-.290	-.102	-.401	.018	-.600	.082
	30	-.066	-.368	-.150	-.362	-.268	-.250	-.328	-.150	-.427	-.040	-.478	.011
	40	-.130	-.402	-.212	-.413	-.249	-.303	-.383	-.200	-.474	-.110	-.522	-.050
	50	-.180	-.472	-.248	-.440	-.316	-.369	-.445	-.235	-.540	-.142	-.592	-.103
	60	-.150	-.490	-.190	-.508	-.240	-.325	-.421	-.182	-.535	-.130	-.604	-.109
	70	-.096	-.410	-.120	-.348	-.182	-.132	-.268	-.120	-.521	-.080	-.620	-.092
	80	-.030	-.079	-.091	-.048	-.027	-.027	-.050	-.049	-.158	-.026	-.114	-.050
	90	.018	.005	.011	.005	.018	.040	.024	.020	-.010	.030	-.030	.004
55	0	.429	---	.593	---	.681	---	.689	---	.614	---	.510	---
	5	-.021	---	.054	---	.041	---	-.039	---	-.110	---	-.190	---
	10	.025	-.522	-.011	-.401	-.169	-.221	-.329	-.048	-.645	.100	-.850	.153
	20	-.072	-.377	-.105	-.484	-.221	-.259	-.359	-.119	-.511	.010	-.775	.050
	30	-.102	-.433	-.150	-.420	-.269	-.297	-.398	-.150	-.469	-.048	-.732	-.019
	40	-.136	---	-.172	---	-.281	---	-.429	---	-.519	---	-.634	---
	50	-.150	---	-.182	---	-.249	---	-.426	---	-.588	---	-.632	---
	60	-.075	-.398	-.131	-.391	-.185	-.183	-.200	-.141	-.541	-.098	-.650	-.098
	70	-.054	-.108	-.090	-.106	-.101	-.107	-.100	-.075	-.160	-.040	-.321	-.049
	80	.010	---	-.021	---	-.033	---	-.030	---	-.036	---	-.130	---
	90	.059	.065	.012	-.028	.031	.012	.035	.049	.030	.063	-.042	.040
75	0	.079	---	.258	---	.571	---	.720	---	.715	---	.699	---
	5	.018	---	.018	---	-.100	---	-.431	---	-.792	---	-.182	---
	10	.030	-.532	.015	-.452	-.137	-.212	-.319	-.007	-.700	.119	-.856	.174
	20	-.090	-.550	-.071	-.430	-.130	-.219	-.370	-.080	-.648	.025	-.815	.069
	30	-.110	-.411	-.110	-.442	-.207	-.248	-.359	-.152	-.595	-.039	-.782	-.002
	40	-.111	-.441	-.148	-.481	-.228	-.237	-.341	-.141	-.532	-.063	-.761	-.045
	50	-.101	---	-.136	---	-.134	---	-.230	---	-.473	---	-.632	---
	60	-.088	-.100	-.140	-.155	-.170	-.175	-.168	-.132	-.145	-.097	-.116	-.082
	70	-.041	-.002	-.070	-.072	-.060	-.031	-.089	-.079	-.028	-.059	-.209	-.051
	80	.000	.041	-.008	.012	-.009	-.009	-.009	-.010	.033	.009	-.072	.002
	90	.178	.110	.157	.081	.111	.081	.142	.063	.159	.079	.160	.068
95	0	.579	---	.448	---	.660	---	.718	---	.671	---	.628	---
	5	.012	---	.005	---	-.048	---	-.389	---	-.691	---	-.810	---
	10	-.009	-.328	-.052	-.250	-.178	-.074	-.409	.046	-.768	.112	-.856	.146
	20	-.136	-.381	-.140	-.142	-.270	-.269	-.372	-.189	-.721	-.128	-.850	-.100
	30	---	-.100	---	-.189	---	-.261	---	-.170	---	-.205	---	-.198
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.089	---	-.127	---	-.116	---	-.129	---	-.029	---	-.116	---
	60	-.045	-.046	-.071	-.081	-.075	-.076	-.069	-.070	-.019	-.060	-.021	-.101
	70	.001	.015	-.001	-.015	-.019	-.007	-.007	.000	.002	.008	.002	-.021
	80	.059	.070	.015	.031	.052	.065	.055	.059	.040	.065	.030	.035
	90	.042	.071	.081	.102	.100	.076	.109	.100	.076	.078	.045	.068

(l) M,0.94.

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	0.171	---	0.441	---	0.618	---	0.788	---	0.828	---	0.818	---
	5	.286	---	.174	---	.049	---	-.071	---	-.232	---	-.334	---
	10	.210	-0.177	.112	-0.142	.012	-0.012	-.070	0.085	-.218	0.208	-.360	0.325
	20	.128	-.204	.018	-.184	-.041	-.075	-.127	.010	-.230	.102	-.330	.204
	30	.050	-.201	-.040	-.171	-.075	-.076	-.178	-.089	-.270	.076	-.360	.168
	40	.004	-.250	-.088	-.210	-.116	-.147	-.206	-.088	-.288	0	-.367	.079
	50	-.050	---	-.140	---	-.140	---	-.250	---	-.329	---	-.402	---
	60	-.077	-.323	-.170	-.310	-.241	-.243	-.288	-.181	-.360	-.102	-.424	-.032
	70	-.102	-.448	-.200	-.430	-.242	-.277	-.312	-.210	-.370	-.138	-.452	-.070
	80	-.117	-.323	-.215	-.418	-.270	-.270	-.348	-.220	-.414	-.141	-.480	-.089
	90	-.081	-.157	-.117	-.157	-.242	-.241	-.304	-.180	-.380	-.118	-.452	-.077
35	0	.632	---	.711	---	.717	---	.677	---	.612	---	.451	---
	5	.117	---	.071	---	-.012	---	-.244	---	-.646	---	-.878	---
	10	.129	-.358	.014	-.292	-.071	-.151	-.184	-.018	-.412	.100	-.688	.218
	20	.002	-.359	-.087	-.306	-.177	-.200	-.279	-.118	-.370	-.007	-.670	.098
	30	-.050	-.366	-.130	-.321	-.210	-.240	-.318	-.170	-.415	-.071	-.647	.052
	40	-.100	-.380	-.150	-.378	-.224	-.290	-.358	-.235	-.455	-.140	-.670	-.050
	50	-.170	-.451	-.177	-.440	-.250	-.378	-.452	-.301	-.521	-.204	-.598	-.109
	60	-.151	-.486	-.189	-.478	-.251	-.400	-.485	-.317	-.529	-.202	-.576	-.128
	70	-.108	-.440	-.200	-.448	-.240	-.342	-.452	-.310	-.544	-.140	-.575	-.107
	80	-.040	-.170	-.079	-.278	-.170	-.148	-.218	-.055	-.360	-.070	-.522	-.070
	90	.010	-.018	.000	-.018	.037	.030	-.008	.007	-.080	.010	-.170	-.048
55	0	.651	---	.680	---	.770	---	.701	---	.611	---	.521	---
	5	.017	---	.078	---	.044	---	.001	---	-.078	---	-.170	---
	10	.051	-.519	-.031	-.372	-.178	-.221	-.281	-.065	-.580	.054	-.810	.145
	20	-.040	-.369	-.117	-.361	-.218	-.264	-.315	-.140	-.480	-.039	-.749	.039
	30	-.070	-.410	-.200	-.400	-.240	-.310	-.358	-.195	-.450	-.100	-.740	-.040
	40	-.128	---	-.248	---	-.240	---	-.400	---	-.500	---	-.700	---
	50	-.143	---	-.248	---	-.210	---	-.471	---	-.576	---	-.612	---
	60	-.101	-.501	-.136	-.561	-.287	-.340	-.440	-.143	-.592	-.142	-.620	-.146
	70	-.060	-.249	-.082	-.230	-.075	-.080	-.250	-.050	-.449	-.080	-.640	-.095
	80	.004	---	-.021	---	.018	---	.018	---	-.118	---	-.251	---
	90	.051	.039	.019	.041	.051	.069	.073	.075	-.012	.023	-.120	-.029
75	0	.145	---	.328	---	.574	---	.710	---	.729	---	.710	---
	5	.139	---	.040	---	-.121	---	-.342	---	-.658	---	-.859	---
	10	.068	-.548	-.012	-.401	-.152	-.218	-.280	-.043	-.612	.080	-.780	.164
	20	-.022	-.501	-.117	-.377	-.222	-.250	-.349	-.110	-.569	-.012	-.750	.055
	30	-.081	-.418	-.149	-.450	-.252	-.299	-.372	-.158	-.540	-.080	-.729	-.020
	40	-.105	-.499	-.174	-.450	-.272	-.299	-.420	-.148	-.525	-.103	-.738	-.065
	50	-.110	---	-.164	---	-.213	---	-.388	---	-.539	---	-.700	---
	60	-.080	-.268	-.153	-.275	-.127	-.153	-.249	-.140	-.479	-.131	-.590	-.112
	70	-.042	-.038	-.079	-.062	-.075	-.079	-.038	-.080	-.118	-.085	-.326	-.090
	80	.019	.039	-.029	.021	.007	.002	.029	.002	-.018	-.025	-.215	-.027
	90	.175	.119	.159	.090	.178	.091	.173	.048	.158	.052	.134	.030
95	0	.367	---	.487	---	.671	---	.726	---	.679	---	.640	---
	5	.089	---	.040	---	-.100	---	-.306	---	-.560	---	-.639	---
	10	.023	-.321	-.061	-.209	-.189	-.062	-.377	.029	-.700	.099	-.854	.158
	20	-.131	-.369	-.199	-.325	-.280	-.157	-.396	-.129	-.672	-.152	-.798	-.090
	30	---	-.424	---	-.482	---	-.326	---	-.280	---	-.262	---	-.200
	40	---	---	---	---	---	---	---	---	---	---	---	---
	50	-.143	---	-.160	---	-.069	---	-.028	---	-.080	---	-.416	---
	60	-.006	.011	-.018	-.018	-.060	-.049	-.020	-.039	.021	-.049	-.170	-.091
	70	.032	.041	.007	.030	.000	.029	.026	.015	.040	.010	-.071	-.050
	80	.080	.091	.051	.095	.064	.081	.087	.025	.069	.060	.010	.050
	90	.120	.126	.110	.120	.115	.114	.128	.116	-.005	.005	.067	.010

NACA

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	0.216	---	0.130	---	-0.019	---	-0.167	---	-0.311	---	-0.522	---
	10	.148	---	.070	---	-.039	---	-.141	---	-.234	---	-.400	---
	20	---	---	---	---	---	---	---	---	---	---	---	---
	30	.026	0.239	0	-0.156	-.084	-0.068	-.151	-0.038	-.176	0.026	-.297	0.090
	40	-.010	-.232	-.044	-.156	-.097	-.077	-.160	-.064	-.176	-.006	-.287	.052
	50	-.019	---	-.064	---	-.126	---	-.167	---	-.176	---	-.271	---
	60	-.045	-.206	-.060	-.156	-.116	-.116	-.151	-.071	-.192	-.038	-.239	.019
	70	-.045	-.174	-.060	-.140	-.098	-.106	-.135	-.071	-.167	-.045	-.206	-.010
	80	-.029	-.142	-.038	-.098	-.068	-.084	-.101	-.061	-.119	-.035	-.148	.001
	90	-.013	-.077	-.006	-.054	-.035	-.042	-.054	-.013	-.071	-.006	-.084	.019
35	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.213	---	.105	---	-.077	---	-.288	---	-.481	---	-.658	---
	10	---	-.377	---	-.251	---	-.100	---	.026	---	.122	---	.213
	20	.087	-.297	.003	-.203	-.097	-.100	-.199	-.006	-.279	.058	-.448	.132
	30	.003	-.265	-.029	-.187	-.106	-.126	-.183	-.054	-.247	-.003	-.374	.068
	40	-.013	---	-.057	---	-.116	---	-.167	---	-.224	---	-.301	---
	50	-.023	-.206	-.060	-.156	-.110	-.129	-.160	-.071	-.192	-.038	-.255	.003
	60	-.023	-.171	-.051	-.124	-.097	-.100	-.119	-.071	-.141	-.038	-.190	.003
	70	-.013	-.110	-.032	-.086	-.060	-.068	-.077	-.038	-.103	-.022	-.139	.003
	80	-.006	-.045	.003	-.025	-.010	-.003	-.038	.003	-.045	-.022	-.077	.035
	90	.052	---	.035	---	.026	---	.019	---	.010	---	-.019	---
55	0	-.210	---	.257	---	.432	---	.106	---	-.583	---	-1.045	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.345	---	-.251	---	-.126	---	.026	---	-.096	---	.197
	20	---	-.303	---	-.187	---	-.132	---	-.006	---	.058	---	.148
	30	---	-.235	---	-.156	---	-.132	---	-.029	---	.026	---	.087
	40	-.010	---	-.003	---	-.100	---	-.160	---	-.199	---	-.274	---
	50	-.019	---	-.038	---	-.100	---	-.135	---	-.167	---	-.223	---
	60	-.013	---	-.032	---	-.074	---	-.109	---	-.135	---	-.174	---
	70	-.013	-.068	-.022	-.070	-.042	-.068	-.071	-.032	-.077	-.006	-.116	.013
	80	.013	-.039	.010	-.006	0	-.003	-.010	0	-.032	.026	-.061	.026
	90	.023	.016	.035	.035	.029	.032	.026	.032	.026	.042	-.013	.035
75	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.213	---	.124	---	-.052	---	-.256	---	-.391	---	-.594	---
	10	---	-.135	---	-.219	---	-.094	---	.058	---	.138	---	.219
	20	---	-.271	---	-.187	---	-.094	---	-.006	---	.058	---	.132
	30	.019	-.181	-.032	-.124	-.126	-.068	-.167	-.003	-.213	.032	-.332	.084
	40	-.010	-.206	-.009	-.156	-.097	-.100	-.160	-.038	-.196	-.003	-.271	.045
	50	-.016	---	-.035	---	-.094	---	-.135	---	-.167	---	-.223	---
	60	-.013	-.142	-.022	-.092	-.068	-.068	-.096	-.038	-.119	-.022	-.174	.003
	70	-.013	-.077	.003	-.057	-.035	-.052	-.064	-.032	-.071	-.006	-.110	.003
	80	.245	---	.162	---	.103	---	.064	---	.058	---	.026	---
	90	.052	.019	.060	.035	.055	.029	.042	.026	.032	.026	-.010	.026
95	0	-.432	---	.098	---	.423	---	.378	---	.042	---	-.110	---
	5	.174	---	.098	---	-.068	---	-.231	---	-.389	---	-.174	---
	10	.084	-.290	.035	-.206	-.090	-.090	-.199	.010	-.269	.077	-.458	.145
	20	-.006	-.223	-.025	-.180	-.100	-.116	-.135	-.051	-.199	-.019	-.352	.039
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.052	-.148	-.057	-.122	-.094	-.093	-.119	-.074	-.135	-.058	-.190	-.029
	50	-.045	-.123	-.057	-.103	-.077	-.087	-.087	-.068	-.103	-.061	-.148	-.051
	60	-.042	-.090	-.032	-.080	-.045	-.068	-.054	-.061	-.071	-.058	-.110	-.055
	70	-.013	---	.001	---	-.003	---	-.006	---	-.022	---	-.077	---
	80	.058	---	.060	---	.045	---	.042	---	.032	---	.003	---
	90	---	.035	---	.042	---	.042	---	.039	---	.035	---	.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	-0.825	---	-0.818	---	-1.172	---	-1.058	---	-1.584	---	-1.706	---
	10	-.573	---	-.722	---	-.880	---	-.977	---	-1.132	---	-0.190	---
	20	---	---	---	---	---	---	---	---	---	---	---	---
	30	-.389	0.166	-.482	0.240	-.591	0.289	-.659	0.347	-.706	0.394	-.835	0.439
	40	-.354	.127	-.426	.179	-.523	.224	-.571	.269	-.610	.326	-.706	.358
	50	-.322	---	-.399	---	-.461	---	-.500	---	-.545	---	-.626	---
	60	-.268	.057	-.319	.109	-.383	.143	-.425	.185	-.455	.229	-.552	.261
	70	-.229	.038	-.281	.077	-.328	.110	-.357	.130	-.358	.181	-.474	.203
	80	-.166	.032	-.211	.077	-.256	.094	-.263	.127	-.287	.148	-.352	.165
	90	-.102	.032	-.115	.077	-.159	.065	-.166	.084	-.184	.106	-.529	.132
35	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	-.806	---	-1.115	---	-1.188	---	-1.466	---	-1.126	---	-1.158	---
	10	---	.287	---	.364	---	.393	---	.445	---	.471	---	.494
	20	-.701	.191	-1.220	.268	-1.393	.292	-1.331	.347	-1.223	.390	-1.142	.416
	30	-.643	.137	-1.297	.179	-1.448	.224	-1.390	.256	-1.252	.294	-1.126	.326
	40	-.525	---	-1.169	---	-1.393	---	-1.367	---	-1.239	---	-1.142	---
	50	-.389	.057	-.786	.093	-1.182	.127	-1.266	.133	-1.197	.169	-1.129	.181
	60	-.261	.051	-.304	.073	-.821	.091	-1.068	.100	-1.077	.116	-1.061	.116
	70	-.199	.038	-.251	.070	-.432	.068	-.815	.068	-.939	.074	-.971	.068
	80	-.102	.057	.013	.080	-.130	.078	-.555	.068	-.771	.068	-.868	.019
	90	-.035	---	.045	---	-.003	---	-.305	---	-.390	---	-.119	---
55	0	-.889	---	-.815	---	-.665	---	-.649	---	-.616	---	-.616	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	.280	---	.332	---	.068	---	.386	---	.423	---	.439
	20	---	.191	---	.236	---	.261	---	.292	---	.326	---	.342
	30	---	.137	---	.173	---	.175	---	.198	---	.229	---	.261
	40	-.452	---	-.604	---	-.620	---	-.614	---	-.577	---	-.577	---
	50	-.389	---	-.626	---	-.646	---	-.620	---	-.594	---	-.564	---
	60	-.318	---	-.629	---	-.652	---	-.627	---	-.610	---	-.610	---
	70	-.223	.025	-.594	.013	-.646	-.036	-.640	-.036	-.610	-.029	-.594	-.029
	80	-.150	.032	-.530	-.019	-.620	-.081	-.617	-.100	-.577	-.087	-.561	-.077
	90	-.073	.032	-.466	-.083	-.581	-.192	-.588	-.195	-.552	-.184	-.539	-.184
75	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	-.516	---	-.339	---	-.351	---	-.360	---	-.352	---	-.352	---
	10	---	.283	---	.300	---	.305	---	.347	---	.384	---	.406
	20	---	.185	---	.179	---	.192	---	.227	---	.268	---	.294
	30	-.385	.121	-.147	.115	-.328	.127	-.360	.133	-.368	.171	-.377	.197
	40	-.318	.073	-.144	.058	-.328	.062	-.367	.078	-.381	.116	-.381	.132
	50	-.267	---	-.275	---	-.334	---	-.367	---	-.377	---	-.381	---
	60	-.229	.025	-.297	-.016	-.328	-.036	-.360	-.036	-.358	.003	-.358	.010
	70	-.166	.025	-.252	-.029	-.328	-.062	-.360	-.068	-.352	-.029	-.352	-.029
	80	-.006	---	-.099	---	-.172	---	-.231	---	-.255	---	-.261	---
	90	-.086	.019	-.214	-.086	-.295	-.133	-.325	-.133	-.319	-.126	-.323	-.126
95	0	-.223	---	-.147	---	-.133	---	-.133	---	-.206	---	-.287	---
	5	-.341	---	-.380	---	-.263	---	-.201	---	-.206	---	-.237	---
	10	-.348	.199	-.403	.203	-.295	.236	-.237	.241	-.239	.267	-.255	.294
	20	-.306	.071	-.396	.074	-.279	.102	-.231	.103	-.239	.138	-.255	.161
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.404	-.026	-.339	-.023	-.260	-.019	-.231	-.023	-.229	-.003	-.255	.006
	50	-.325	-.010	-.329	-.055	-.260	-.051	-.231	-.058	-.229	-.051	-.225	-.032
	60	-.576	-.016	-.275	-.061	-.247	-.077	-.231	-.119	-.223	-.080	-.225	-.087
	70	-.516	---	-.236	---	-.231	---	-.198	---	-.219	---	-.248	---
	80	-.382	---	-.131	---	-.182	---	-.164	---	-.190	---	-.197	---
	90	---	.006	---	-.048	---	-.083	---	-.106	---	-.116	---	-.126

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TABLE VII.- CONTINUED

(b) M,0.60.

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	8 Upper surface	8 Lower surface	10 Upper surface	10 Lower surface
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.228	---	0.117	---	0.005	---	-0.159	---	-0.330	---	-0.580	---	-0.811	---	-1.054	---
	10	.143	---	.062	---	-.019	---	-.138	---	-.261	---	-.438	---	-.581	---	-.730	---
	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30	.023	-0.248	-.031	-0.173	-.081	-0.119	-.160	-0.053	-.241	0.011	-.342	0.093	-.419	0.144	-.522	0.229
	40	-.015	-.241	-.062	-.185	-.112	-.139	-.179	-.078	-.246	-.024	-.326	.045	-.389	.090	-.473	.169
	50	-.049	---	-.091	---	-.130	---	-.189	---	-.246	---	-.322	---	-.369	---	-.440	---
	60	-.059	-.216	-.098	-.169	-.125	-.135	-.177	-.098	-.229	-.057	-.289	0 0	-.332	.031	-.397	.091
	70	-.061	-.206	-.093	-.160	-.118	-.132	-.160	-.109	-.200	-.071	-.247	.021	-.286	.005	-.329	.058
	80	-.041	-.146	-.071	-.112	-.085	-.100	-.121	-.072	-.155	-.050	-.192	-.017	-.215	.009	-.249	.050
	90	-.022	-.088	-.040	-.063	-.049	-.050	-.072	-.040	-.098	-.022	-.116	.001	-.137	.014	-.153	.048
35	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.209	---	.072	---	-.071	---	-.274	---	-.470	---	-.670	---	-.705	---	-1.020	---
	10	---	-.386	---	-.261	---	-.138	---	-.002	---	.129	---	.223	---	.260	---	.339
	20	.039	-.290	-.032	-.217	-.112	-.129	-.202	-.041	-.282	.072	-.492	.136	-.598	.176	-1.000	.250
	30	-.002	-.258	-.070	-.219	-.129	-.151	-.195	-.080	-.248	.012	-.408	.067	-.499	.099	-1.049	.166
	40	-.012	---	-.072	---	-.140	---	-.187	---	-.214	---	-.342	---	-.431	---	-1.003	---
	50	-.047	-.213	-.089	-.181	-.131	-.145	-.170	-.101	-.188	-.022	-.271	0	-.366	.021	-.858	.072
	60	-.039	-.159	-.074	-.141	-.105	-.109	-.132	-.087	-.142	-.023	-.210	0	-.288	.008	-.605	.055
	70	-.019	-.111	-.048	-.101	-.071	-.075	-.093	-.059	-.097	-.003	-.144	.007	-.200	.009	-.300	.040
	80	.005	-.040	-.015	-.040	-.037	-.020	-.045	-.014	-.040	.048	-.088	.030	-.159	.036	-.095	.060
	90	.037	---	.023	---	.010	---	.002	---	.023	---	-.020	---	-.083	---	0	---
55	0	.030	---	.340	---	.267	---	.312	---	.618	---	.610	---	.710	---	.670	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.281	---	-.252	---	-.095	---	.078	---	.210	---	.203	---	.242	---	.310
	20	---	-.298	---	-.210	---	-.052	---	.031	---	.120	---	.122	---	.152	---	.212
	30	---	-.240	---	-.188	---	-.072	---	-.002	---	.064	---	.062	---	.092	---	.142
	40	-.010	---	-.070	---	-.179	---	-.238	---	-.310	---	-.318	---	-.372	---	-.377	---
	50	-.036	---	-.078	---	-.167	---	-.205	---	-.250	---	-.250	---	-.322	---	-.352	---
	60	-.030	---	-.054	---	-.130	---	-.161	---	-.195	---	-.195	---	-.265	---	-.342	---
	70	-.015	-.100	-.040	-.092	-.100	-.058	-.108	-.042	-.132	-.014	-.132	-.010	-.195	.008	-.330	0
	80	.015	-.032	0	-.040	-.040	-.015	-.050	0	-.075	.028	-.078	.018	-.128	.018	-.320	-.033
	90	.032	.015	.022	.020	0	.020	0	.021	-.030	.035	-.032	.024	-.076	.020	-.274	-.082
75	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.197	---	.090	---	-.030	---	-.206	---	-.429	---	-.618	---	-.592	---	-.542	---
	10	---	-.342	---	-.220	---	-.117	---	.028	---	.122	---	.220	---	.257	---	.280
	20	---	-.279	---	-.192	---	-.116	---	-.020	---	.049	---	.135	---	.160	---	.180
	30	0	-.195	-.040	-.136	-.093	-.087	-.159	-.020	-.230	.030	-.340	.088	-.410	.105	-.498	.118
	40	-.022	-.224	-.060	-.169	-.102	-.132	-.150	-.060	-.202	-.025	-.274	.032	-.340	.050	-.490	.055
	50	-.047	---	-.079	---	-.115	---	-.140	---	-.181	---	-.225	---	-.300	---	-.443	---
	60	-.030	-.143	-.047	-.114	-.070	-.095	-.096	-.052	-.130	-.038	-.166	0	-.238	0	-.360	-.010
	70	-.020	-.098	-.030	-.072	-.041	-.058	-.065	-.027	-.080	-.020	-.113	.002	-.184	.005	-.280	-.029
	80	.200	---	.135	---	.087	---	.015	---	-.002	---	-.040	---	-.070	---	-.167	---
	90	.040	.010	.042	.020	.040	.010	.045	.045	.042	.023	-.001	.042	-.055	.022	-.150	-.030
95	0	-.242	---	.229	---	.428	---	.443	---	.196	---	.020	---	-.069	---	-.240	---
	5	.155	---	.060	---	-.048	---	-.220	---	-.391	---	-.512	---	-.487	---	-.547	---
	10	.074	-.283	0	-.192	-.082	-.110	-.182	.001	-.282	.091	-.463	.160	-.478	.128	-.580	---
	20	-.008	-.202	-.060	-.167	-.103	-.125	-.160	-.071	-.210	-.010	-.349	.033	-.401	.059	-.540	.220
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.060	-.128	-.087	-.128	-.104	-.094	-.123	-.070	-.140	-.056	-.188	-.034	-.253	-.029	-.450	-.020
	50	-.052	-.102	-.077	-.098	-.090	-.078	-.100	-.064	-.102	-.055	-.149	-.040	-.215	-.034	-.402	-.044
	60	-.038	-.067	-.045	-.065	-.050	-.050	-.062	-.050	-.075	-.043	-.105	-.027	-.178	-.038	-.337	-.056
	70	-.003	---	-.015	---	-.020	---	-.020	---	-.016	---	-.068	---	-.134	---	-.280	---
	80	.165	---	.086	---	.086	---	.086	---	.048	---	.014	---	-.025	---	-.145	---
	90	---	.062	---	.063	---	.073	---	.072	---	.062	---	.028	---	.018	---	.008

(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	6 Upper surface	6 Lower surface	8 Upper surface	8 Lower surface
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.229	---	0.145	---	-0.012	---	-0.125	---	-0.301	---	-0.509	---	-0.852	---
	10	.146	---	.090	---	-.038	---	-.127	---	-.245	---	-.401	---	-.624	---
	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30	.020	-0.239	-.017	-0.208	-.101	-0.120	-.160	-0.060	-.240	0.019	-.337	0.088	-.450	0.162
	40	-.020	-.239	-.059	-.216	-.132	-.141	-.180	-.089	-.250	-.020	-.330	.038	-.428	.106
	50	-.051	---	-.082	---	-.151	---	-.192	---	-.257	---	-.327	---	-.409	---
	60	-.064	-.230	-.100	-.201	-.160	-.149	-.192	-.109	-.245	-.055	-.302	-.009	-.367	.042
	70	-.067	-.205	-.099	-.193	-.143	-.150	-.172	-.112	-.213	-.069	-.261	-.029	-.318	.012
	80	-.045	-.151	-.075	-.142	-.112	-.111	-.130	-.087	-.166	-.051	-.199	-.019	-.239	.012
	90	-.020	-.082	-.042	-.078	-.062	-.060	-.075	-.042	-.092	-.020	-.120	.002	-.149	.020
35	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.183	---	.109	---	-.099	---	-.263	---	-.508	---	-.678	---	-.771	---
	10	---	-.380	---	-.303	---	-.136	---	-.022	---	.100	---	.185	---	.259
	20	.021	-.310	-.012	-.242	-.130	-.142	-.205	-.059	-.309	.032	-.484	.102	-.692	.162
	30	-.030	-.279	-.058	-.239	-.149	-.166	-.200	-.092	-.281	.022	-.421	.038	-.586	.053
	40	-.060	---	-.076	---	-.155	---	-.196	---	-.256	---	-.356	---	-.527	---
	50	-.072	-.229	-.080	-.204	-.147	-.158	-.178	-.113	-.222	-.070	-.268	-.029	-.445	.013
	60	-.061	-.180	-.071	-.159	-.119	-.128	-.141	-.091	-.170	-.061	-.221	.030	-.351	-.001
	70	-.041	-.125	-.050	-.102	-.082	-.082	-.104	-.065	-.126	-.040	-.168	-.020	-.268	0
	80	-.006	-.059	-.013	-.048	-.032	-.008	-.046	-.014	-.066	-.001	-.101	.017	-.190	.022
	90	.016	---	.030	---	.016	---	.005	---	-.003	---	-.039	---	-.110	---
55	0	.090	---	.290	---	.468	---	.343	---	-.147	---	-.413	---	-.631	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.200	---	-.110	---	-.170	---	-.030	---	.089	---	.189	---	.245
	20	---	-.273	---	-.244	---	-.138	---	-.053	---	.050	---	.119	---	.159
	30	---	-.232	---	-.210	---	-.139	---	-.075	---	.009	---	.062	---	.099
	40	-.030	---	-.060	---	-.138	---	-.170	---	-.229	---	-.300	---	-.387	---
	50	-.052	---	-.077	---	-.135	---	-.160	---	-.190	---	-.238	---	-.327	---
	60	-.040	---	-.058	---	-.109	---	-.127	---	-.139	---	-.180	---	-.272	---
	70	-.020	-.098	-.040	-.103	-.072	-.087	-.099	-.057	-.090	-.022	-.120	.001	-.210	-.009
	80	.010	-.033	.003	-.040	-.023	-.020	-.032	-.010	-.022	.028	-.054	.038	-.150	.010
	90	.037	.022	.035	.010	.020	.020	.015	.020	.029	.040	0	.047	-.097	0
75	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.171	---	.115	---	-.072	---	-.220	---	-.421	---	-.592	---	-.625	---
	10	---	-.303	---	-.270	---	-.118	---	-.002	---	.100	---	.191	---	.240
	20	---	-.267	---	-.228	---	-.130	---	.044	---	.047	---	.100	---	.122
	30	-.002	-.175	-.031	-.160	-.119	-.102	-.178	-.043	-.240	.020	-.339	.063	-.445	.088
	40	-.032	-.202	-.054	-.197	-.130	-.143	-.168	-.090	-.216	-.033	-.289	.002	-.381	.030
	50	-.044	---	-.064	---	-.129	---	-.157	---	-.184	---	-.230	---	-.333	---
	60	-.030	-.133	-.042	-.125	-.092	-.107	-.118	-.080	-.135	-.042	-.172	-.029	-.273	-.018
	70	-.015	-.075	-.030	-.083	-.063	-.069	-.074	-.050	-.090	-.026	-.118	-.016	-.217	-.027
	80	.050	---	.020	---	-.004	---	-.012	---	-.020	---	-.038	---	-.096	---
	90	.050	.025	.047	.020	.025	.011	.020	.021	.030	.026	-.002	.022	-.082	-.001
95	0	-.118	---	.122	---	.450	---	.464	---	.204	---	.063	---	-.069	---
	5	.127	---	.080	---	-.086	---	-.227	---	-.448	---	-.560	---	-.527	---
	10	.057	-.282	.009	-.252	-.120	-.138	-.197	-.037	-.360	.018	-.499	.072	-.520	.122
	20	-.040	-.210	-.068	-.210	-.140	-.152	-.173	-.098	-.280	.082	-.390	-.052	-.460	-.012
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.080	-.140	-.096	-.148	-.122	-.126	-.148	-.103	-.138	-.130	-.242	-.130	-.302	-.077
	50	-.081	-.112	-.090	-.117	-.107	-.102	-.112	-.090	-.168	-.131	-.202	-.131	-.252	-.105
	60	-.053	-.075	-.067	-.088	-.080	-.078	-.087	-.067	-.125	-.120	-.160	-.125	-.222	-.109
	70	-.030	---	-.018	---	-.027	---	-.025	---	-.080	---	-.120	---	-.189	---
	80	.078	---	.032	---	.026	---	.030	---	-.020	---	-.040	---	-.092	---
	90	---	.055	---	.050	---	.056	---	.049	---	.008	---	-.036	---	-.042

NACA

TABLE VII.- CONTINUED

(d) M,0.75.

Percent Semi-span	Per cent 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
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.240	---	0.132	---	-0.001	---	-0.149	---	-0.321	---	-0.479	---	-0.699	---
	10	.160	---	.077	---	-.031	---	-.132	---	-.268	---	-.381	---	-.561	---
	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30	-.031	-0.249	-.023	-0.188	-.098	-0.120	-.167	-0.039	-.258	0.026	-.321	0.091	-.437	0.168
	40	-.013	-.255	-.065	-.200	-.130	-.146	-.191	-.079	-.269	-.018	-.330	.045	-.419	.112
	50	-.049	---	-.090	---	-.152	---	-.208	---	-.276	---	-.320	---	-.396	---
	60	-.059	-.231	-.098	-.200	-.157	-.150	-.200	-.100	-.261	-.060	-.294	-.008	-.365	.042
	70	-.067	-.215	-.099	-.183	-.147	-.150	-.181	-.107	-.236	-.071	-.261	-.009	-.304	.011
	80	-.049	-.168	-.076	-.141	-.114	-.119	-.140	-.086	-.179	-.055	-.199	-.018	-.230	.020
	90	-.022	-.089	-.045	-.083	-.067	-.065	-.083	-.036	-.106	-.021	-.118	.005	-.140	.030
35	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.198	---	.078	---	-.069	---	-.291	---	-.537	---	-.700	---	-.728	---
	10	---	-.409	---	-.269	---	-.132	---	.008	---	.118	---	.191	---	.241
	20	.036	-.322	-.038	-.240	-.126	-.148	-.219	-.039	-.341	.050	-.481	.108	-.631	.166
	30	-.015	-.290	-.071	-.239	-.142	-.163	-.208	-.071	-.292	-.017	-.407	.041	-.533	.052
	40	-.052	---	-.098	---	-.157	---	-.201	---	-.268	---	-.341	---	-.462	---
	50	-.061	-.238	-.100	-.204	-.139	-.159	-.181	-.100	-.232	-.061	-.265	-.017	-.400	.008
	60	-.058	-.178	-.081	-.153	-.106	-.124	-.138	-.076	-.176	-.053	-.214	-.019	-.322	.005
	70	-.038	-.118	-.060	-.110	-.070	-.082	-.095	-.050	-.123	-.033	-.150	0	-.250	.005
	80	-.005	-.054	-.018	-.042	-.027	-.030	-.042	-.018	-.055	.009	-.080	.025	-.180	.023
	90	.030	---	.015	---	.029	---	.028	---	.009	---	-.018	---	-.106	---
55	0	.130	---	.381	---	.480	---	.302	---	-.200	---	-.392	---	-.632	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.300	---	-.260	---	-.150	---	-.012	---	.062	---	.126	---	.182
	20	---	-.301	---	-.222	---	-.140	---	-.049	---	-.008	---	.050	---	.100
	30	---	-.252	---	-.200	---	-.140	---	-.069	---	-.040	---	-.001	---	.040
	40	-.030	---	-.071	---	-.138	---	-.190	---	-.297	---	-.351	---	-.462	---
	50	-.050	---	-.085	---	-.137	---	-.170	---	-.262	---	-.290	---	-.395	---
	60	-.035	---	-.070	---	-.105	---	-.140	---	-.212	---	-.237	---	-.330	---
	70	-.020	-.102	-.046	-.099	-.070	-.080	-.099	-.050	-.152	-.080	-.170	-.062	-.260	-.066
	80	.017	-.032	-.008	-.030	-.020	-.018	-.032	-.009	-.091	-.032	-.110	-.032	-.184	-.040
	90	.037	.020	.029	.025	.012	.024	.017	.036	-.037	-.018	-.055	-.012	-.121	-.028
75	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.187	---	.079	---	-.072	---	-.249	---	.463	---	-.609	---	-.613	---
	10	---	-.337	---	-.247	---	-.110	---	.024	---	.124	---	.210	---	.234
	20	---	-.280	---	-.211	---	-.120	---	-.023	---	.053	---	.105	---	.144
	30	0	-.196	-.060	-.158	-.123	-.090	-.187	-.024	-.267	.020	-.328	.057	-.430	.082
	40	-.028	-.221	-.072	-.194	-.130	-.140	-.178	-.072	-.238	-.030	-.270	.007	-.359	.023
	50	-.044	---	-.082	---	-.120	---	-.154	---	-.201	---	-.220	---	-.302	---
	60	-.027	-.138	-.060	-.128	-.092	-.113	-.100	-.060	-.149	-.046	-.163	-.022	-.242	-.012
	70	-.017	-.080	-.040	-.080	-.062	-.070	-.070	-.040	-.093	-.022	-.108	-.010	-.196	-.012
	80	.080	---	.020	---	0	---	-.009	---	-.022	---	-.029	---	-.096	---
	90	.050	.028	.033	.013	.031	.035	.037	.040	.023	.029	.021	-.006	-.072	.002
95	0	-.043	---	.275	---	.477	---	.467	---	.258	---	.160	---	.042	---
	5	.162	---	.068	---	-.086	---	-.268	---	.478	---	-.567	---	-.512	---
	10	.076	-.299	-.002	-.218	-.108	-.108	-.210	-.002	-.343	.090	-.478	.133	-.481	.171
	20	-.021	-.221	-.068	-.190	-.131	-.139	-.180	-.000	-.248	-.022	-.340	.013	-.390	.038
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.063	-.141	-.090	-.130	-.110	-.110	-.130	-.093	-.170	-.070	-.180	-.052	-.253	-.058
	50	-.064	-.110	-.080	-.110	-.097	-.100	-.104	-.080	-.132	-.070	-.143	-.062	-.203	-.069
	60	-.037	-.070	-.050	-.072	-.070	-.072	-.060	-.075	-.077	-.059	-.090	-.050	-.158	-.058
	70	-.007	---	-.008	---	0	---	-.012	---	-.038	---	-.050	---	-.131	---
	80	.131	---	.073	---	.054	---	.048	---	.030	---	.022	---	---	---
	90	---	.072	---	.068	---	.068	---	.060	---	.051	---	.042	---	.015

(e) M,0.80.

Percent Semi-span	Per cent 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
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.221	---	0.151	---	0.022	---	-0.130	---	-0.202	---	-0.450	---	-0.607	---
	10	.143	---	.093	---	-.008	---	-.121	---	-.282	---	-.330	---	-.451	---
	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30	.022	-0.228	-.012	-0.195	-.085	-0.108	-.160	-0.041	-.240	0.012	-.340	0.108	-.417	0.142
	40	-.022	-.229	-.059	-.212	-.122	-.140	-.195	-.080	-.269	-.038	-.349	.058	-.416	.088
	50	-.061	---	-.088	---	-.150	---	-.220	---	-.279	---	-.355	---	-.412	---
	60	-.072	-.231	-.106	-.200	-.160	-.151	-.216	-.110	-.274	-.060	-.332	-.001	-.371	.029
	70	-.081	-.221	-.107	-.217	-.146	-.157	-.200	-.128	-.259	-.100	-.290	-.028	-.320	-.005
	80	-.097	-.168	-.074	-.146	-.115	-.118	-.159	-.088	-.192	-.071	-.218	-.015	-.239	.009
	90	-.033	-.090	-.043	-.080	-.061	-.067	-.090	-.041	-.117	-.031	-.128	.012	-.144	.022
35	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.159	---	.086	---	-.078	---	-.219	---	-.457	---	-.762	---	-.731	---
	10	---	-.362	---	-.304	---	-.130	---	-.005	---	.083	---	.190	---	.238
	20	.002	-.310	-.042	-.259	-.126	-.143	-.219	-.050	-.324	.019	-.529	.105	-.613	.150
	30	-.030	-.281	-.080	-.240	-.142	-.162	-.217	-.089	-.300	-.039	-.442	.040	-.504	.071
	40	-.071	---	-.109	---	-.153	---	-.210	---	-.272	---	-.368	---	-.432	---
	50	-.083	-.232	-.108	-.210	-.141	-.162	-.180	-.109	-.236	-.080	-.292	-.029	-.358	.007
	60	-.071	-.172	-.091	-.160	-.105	-.119	-.140	-.086	-.181	-.071	-.221	-.029	-.278	.0
	70	-.049	-.121	-.068	-.110	-.049	-.080	-.095	-.052	-.130	-.036	-.156	-.007	-.198	.011
	80	-.001	-.055	-.021	-.042	-.017	-.018	-.035	-.008	-.058	0	-.085	.022	-.131	.012
	90	.024	---	.012	---	.027	---	.022	---	.001	---	-.022	---	-.066	---
55	0	.229	---	.363	---	.497	---	.340	---	.013	---	-.297	---	-.450	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.218	---	-.268	---	-.150	---	-.023	---	.060	---	.188	---	.211
	20	---	-.280	---	-.234	---	-.128	---	-.054	---	.019	---	.103	---	.123
	30	---	-.238	---	-.222	---	-.138	---	-.077	---	-.025	---	.045	---	.060
	40	-.052	---	-.070	---	-.130	---	-.185	---	-.247	---	-.320	---	-.388	---
	50	-.070	---	-.088	---	-.120	---	-.130	---	-.203	---	-.250	---	-.302	---
	60	-.051	---	-.068	---	-.090	---	-.119	---	-.160	---	-.190	---	-.250	---
	70	-.037	-.102	-.018	-.105	-.060	-.071	-.090	-.038	-.102	-.036	-.128	-.018	-.180	-.022
	80	.010	-.030	-.002	-.038	-.008	.010	-.030	-.009	-.040	-.002	-.066	.022	-.118	.012
	90	.033	.018	.030	.012	.030	.040	.018	.030	.015	.022	-.010	.032	-.063	.016
75	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.130	---	.078	---	-.070	---	-.248	---	-.418	---	-.669	---	-.638	---
	10	---	-.289	---	-.259	---	-.118	---	.010	---	.084	---	.180	---	.228
	20	---	-.253	---	-.237	---	-.130	---	-.035	---	.019	---	.092	---	.130
	30	-.028	-.187	-.063	-.194	-.130	-.112	-.192	-.050	-.267	-.028	-.332	.030	-.412	.060
	40	-.052	-.215	-.085	-.212	-.134	-.149	-.180	-.092	-.244	-.062	-.299	-.008	-.337	.030
	50	-.070	---	-.100	---	-.135	---	-.168	---	-.218	---	-.240	---	-.262	---
	60	-.042	-.132	-.068	-.141	-.096	-.110	-.120	-.080	-.152	-.060	-.179	-.038	-.200	-.012
	70	-.023	-.075	-.048	-.096	-.062	-.078	-.077	-.047	-.100	-.043	-.120	-.020	-.138	-.011
	80	.009	---	-.005	---	-.004	---	-.014	---	-.030	---	-.050	---	-.057	---
	90	.050	.030	.030	.013	.037	.020	.028	.038	.012	.012	-.008	.012	-.027	.020
95	0	.097	---	.260	---	.483	---	.180	---	.137	---	.184	---	.127	---
	5	.097	---	.070	---	-.080	---	-.248	---	-.421	---	-.588	---	-.522	---
	10	.034	-.260	-.003	-.230	-.110	-.103	-.218	-.013	-.322	.057	-.500	.137	-.485	.162
	20	-.052	-.196	-.078	-.198	-.132	-.140	-.181	-.089	-.234	-.052	-.360	.0	-.412	.030
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.082	-.130	-.097	-.130	-.110	-.115	-.130	-.097	-.156	-.090	-.188	-.069	-.240	-.060
	50	-.085	-.100	-.089	-.107	-.092	-.090	-.106	-.078	-.127	-.080	-.140	-.065	-.190	-.070
	60	-.050	-.060	-.048	-.068	-.059	-.052	-.060	-.068	-.070	-.070	-.090	-.055	-.141	-.060
	70	-.005	---	.001	---	-.005	---	-.010	---	-.020	---	-.052	---	-.113	---
	80	.059	---	.050	---	.048	---	.050	---	.034	---	.018	---	-.027	---
	90	---	.080	---	.080	---	.079	---	.069	---	.052	---	.040	---	.028

NACA

TABLE VII.– CONTINUED

(f) M,0.82.

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	7 Upper surface	7 Lower surface
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.228	---	0.147	---	0.010	---	-0.102	---	-0.274	---	-0.439	---	-0.554	---
	10	.145	---	.089	---	-.012	---	-.089	---	-.218	---	-.371	---	-.461	---
	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30	.026	-0.221	-.016	-0.183	-.089	-0.108	-.150	-0.048	-.231	0.032	-.341	0.112	-.410	0.139
	40	-.019	-.232	-.062	-.204	-.131	-.132	-.180	-.083	-.259	-.016	-.359	.059	-.411	.081
	50	-.059	---	-.095	---	-.166	---	-.209	---	-.278	---	-.371	---	-.429	---
	60	-.073	-.232	-.105	-.212	-.167	-.162	-.200	-.114	-.252	-.052	-.331	.0	-.388	.022
	70	-.081	-.221	-.114	-.200	-.172	-.152	-.203	-.121	-.244	-.076	-.316	-.027	-.352	-.012
	80	-.052	-.171	-.082	-.161	-.126	-.124	-.145	-.095	-.181	-.092	-.229	-.011	-.255	.002
	90	-.028	-.081	-.040	-.075	-.073	-.055	-.080	-.040	-.109	-.012	-.130	.009	-.150	.015
35	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.153	---	.070	---	-.108	---	-.258	---	-.438	---	-.798	---	-.792	---
	10	---	-.350	---	-.299	---	-.148	---	-.019	---	.099	---	.189	---	.215
	20	.002	-.292	.041	-.256	-.145	-.157	-.209	-.060	-.342	.029	-.542	.100	-.632	.130
	30	-.031	-.262	-.079	-.252	-.165	-.180	-.210	-.098	-.307	-.029	-.446	.029	-.535	.064
	40	-.068	---	-.112	---	-.181	---	-.209	---	-.278	---	-.370	---	-.442	---
	50	-.080	-.218	-.112	-.210	-.160	-.179	-.170	-.114	-.235	-.071	-.301	-.029	-.358	-.010
	60	-.060	-.158	-.085	-.163	-.132	-.135	-.139	-.092	-.177	-.056	-.229	-.132	-.273	-.014
	70	-.041	-.102	-.052	-.166	-.089	-.091	-.093	-.057	-.121	-.030	-.163	-.017	-.199	-.008
	80	.002	-.030	-.017	-.041	-.030	-.028	-.039	-.005	-.054	.009	-.089	.011	-.128	.029
	90	.014	---	.016	---	.013	---	.012	---	.012	---	-.022	---	-.061	---
55	0	.253	---	.407	---	.485	---	.370	---	.002	---	-.270	---	-.391	---
	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	.186	---	-.253	---	-.160	---	-.049	---	.072	---	.164	---	.203
	20	---	-.264	---	-.228	---	-.147	---	-.068	---	.024	---	.099	---	.120
	30	---	-.220	---	-.215	---	-.160	---	-.090	---	-.020	---	.033	---	.059
	40	-.050	---	-.079	---	-.150	---	-.190	---	-.249	---	-.330	---	-.380	---
	50	-.064	---	-.090	---	-.143	---	-.170	---	-.210	---	-.258	---	-.298	---
	60	-.049	---	-.072	---	-.110	---	-.130	---	-.160	---	-.190	---	-.218	---
	70	-.025	-.032	-.040	-.099	-.081	-.081	-.091	-.060	-.108	-.046	-.150	-.025	-.180	-.026
	80	.015	-.023	.001	-.025	-.029	-.029	-.025	-.004	-.039	.0	-.072	.011	-.107	.012
	90	.018	.023	.022	.020	.018	.017	.015	.015	.012	.024	-.020	.024	-.060	.017
75	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5	.120	---	.079	---	-.071	---	-.198	---	-.416	---	-.648	---	-.681	---
	10	---	-.270	---	-.245	---	-.102	---	-.001	---	.114	---	.184	---	.212
	20	---	-.298	---	-.212	---	-.117	---	-.043	---	.052	---	.110	---	.128
	30	-.032	-.198	-.058	-.183	-.127	-.139	-.182	-.073	-.250	-.012	-.353	.024	-.419	.034
	40	-.053	-.198	-.080	-.198	-.134	-.140	-.170	-.091	-.224	-.030	-.289	.005	-.338	.018
	50	-.068	---	-.089	---	-.126	---	-.158	---	-.194	---	-.230	---	-.263	---
	60	-.042	-.127	-.062	-.132	-.092	-.110	-.110	-.074	-.138	-.040	-.170	-.023	-.197	-.023
	70	-.020	-.075	-.040	-.080	-.068	-.066	-.069	-.043	-.080	-.020	-.102	-.010	-.135	-.020
	80	.001	---	-.002	---	-.003	---	-.012	---	-.014	---	-.032	---	-.060	---
	90	.024	.030	.040	.028	.034	.027	.040	.028	.037	.030	.027	.040	-.028	.018
95	0	.140	---	.110	---	.493	---	.499	---	.330	---	.208	---	-.165	---
	5	.010	---	.074	---	-.090	---	-.222	---	-.429	---	-.554	---	-.510	---
	10	.025	-.292	.004	-.228	-.115	-.106	-.188	-.020	-.330	---	-.490	.145	-.468	.152
	20	-.038	-.190	-.080	-.190	-.140	-.146	-.177	-.048	-.229	---	-.350	.010	-.382	.018
	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.081	-.120	-.097	-.128	-.116	-.120	-.129	-.100	-.142	---	-.180	-.071	-.218	-.060
	50	-.072	-.072	-.090	-.101	-.100	-.096	-.099	-.080	-.110	---	-.130	-.060	-.167	-.072
	60	-.016	-.050	-.048	-.068	-.052	-.050	-.060	-.048	-.056	---	-.080	-.045	-.120	-.056
	70	0	---	.010	---	.004	---	0	---	-.002	---	-.040	---	-.082	---
	80	.042	---	.047	---	.049	---	.048	---	.055	---	.036	---	0	---
	90	---	.088	---	.085	---	.082	---	.080	---	---	---	.050	---	.022

(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 Upper surface
12.5	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.228	---	0.140	---	0.017	---	-0.101	---	-0.267	---	-0.430	---
	10	.139	---	.080	---	-.015	---	-.102	---	-.210	---	-.356	---
	20	---	---	---	---	---	---	---	---	---	---	---	---
	30	.019	-0.221	-.030	-0.198	-.089	-0.105	-.145	-0.060	-.232	0.027	-.339	0.100
	40	-.021	-.239	-.079	-.222	-.133	-.132	-.200	-.098	-.268	-.021	-.359	.040
	50	-.073	---	-.111	---	-.155	---	-.226	---	-.277	---	-.372	---
	60	-.081	-.250	-.121	-.238	-.154	-.160	-.225	-.127	-.277	-.069	-.359	-.018
	70	-.100	-.230	-.139	-.220	-.167	-.160	-.224	-.139	-.272	-.088	-.346	-.040
	80	-.061	-.175	-.100	-.195	-.125	-.129	-.166	-.112	-.197	-.068	-.242	-.028
	90	-.030	-.094	-.060	-.091	-.060	-.057	-.094	-.055	-.118	-.029	-.136	-.001
35	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.150	---	.072	---	-.102	---	-.258	---	-.431	---	-.882	---
	10	---	-.160	---	-.300	---	-.135	---	-.026	---	.092	---	.178
	20	0	-.301	-.047	-.268	-.145	-.150	-.218	-.070	-.332	.022	-.513	.098
	30	-.035	-.265	-.082	-.252	-.162	-.173	-.210	-.107	-.304	-.088	-.427	.033
	40	-.070	---	-.112	---	-.168	---	-.210	---	-.279	---	-.358	---
	50	-.078	-.200	-.112	-.211	-.160	-.160	-.190	-.122	-.230	-.072	-.289	-.030
	60	-.059	-.160	-.086	-.173	-.117	-.128	-.150	-.096	-.174	-.053	-.212	-.028
	70	-.035	-.100	-.058	-.107	-.078	-.078	-.100	-.058	-.119	-.028	-.150	-.012
	80	0	-.028	-.020	-.045	-.020	-.020	-.028	0	-.045	.010	-.073	.022
	90	.030	---	.030	---	.030	---	.018	---	.016	---	-.013	---
55	0	.268	---	.390	---	.493	---	.390	---	.038	---	-.239	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.196	---	-.278	---	-.140	---	-.040	---	.067	---	.160
	20	---	-.272	---	-.250	---	-.127	---	-.058	---	.014	---	.090
	30	---	-.230	---	-.230	---	-.140	---	-.090	---	-.027	---	.032
	40	-.055	---	-.099	---	-.130	---	-.185	---	-.258	---	-.311	---
	50	-.062	---	-.108	---	-.132	---	-.162	---	-.220	---	-.250	---
	60	-.048	---	-.094	---	-.099	---	-.130	---	-.164	---	-.190	---
	70	-.040	-.098	-.066	-.114	-.080	-.072	-.092	-.060	-.133	-.041	-.149	-.026
	80	.009	-.005	-.010	-.042	-.024	-.012	-.020	-.005	-.042	-.005	-.060	.013
	90	.040	.020	.015	.015	.030	.030	.022	.041	.010	-.032	-.013	.041
75	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.112	---	.070	---	-.080	---	-.210	---	-.400	---	-.660	---
	10	---	-.276	---	-.249	---	-.098	---	0	---	.112	---	.184
	20	---	-.242	---	-.208	---	-.111	---	-.038	---	.048	---	.110
	30	-.035	-.213	-.060	-.200	-.130	-.130	-.175	-.086	-.248	-.027	-.340	.011
	40	-.050	-.200	-.080	-.197	-.134	-.134	-.169	-.088	-.222	-.034	-.280	0
	50	-.073	---	-.094	---	-.133	---	-.157	---	-.197	---	-.228	---
	60	-.047	-.130	-.068	-.137	-.090	-.096	-.109	-.070	-.135	-.042	-.162	-.025
	70	-.021	-.075	-.042	-.080	-.060	-.062	-.065	-.042	-.079	-.020	-.098	-.012
	80	.006	---	.005	---	-.005	---	-.007	---	-.013	---	-.030	---
	90	.045	.028	.047	.028	.045	.028	.048	.036	.038	.040	.010	.028
95	0	.159	---	.122	---	.498	---	.497	---	.347	---	.226	---
	5	.099	---	.067	---	-.090	---	-.228	---	-.438	---	-.590	---
	10	.037	-.268	-.010	-.247	-.116	-.107	-.198	-.021	-.347	.068	-.502	.130
	20	-.053	-.203	-.087	-.218	-.138	-.148	-.180	-.108	-.242	-.050	-.343	-.010
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.076	-.132	-.095	-.142	-.109	-.113	-.122	-.102	-.150	-.089	-.170	-.078
	50	-.068	-.110	-.075	-.110	-.090	-.090	-.100	-.088	-.117	-.073	-.130	-.039
	60	-.032	-.068	-.040	-.075	-.040	-.062	-.043	-.062	-.065	-.058	-.082	-.083
	70	.009	---	.005	---	.010	---	.003	---	-.013	---	-.037	---
	80	.062	---	.055	---	.058	---	.058	---	.052	---	.034	---
	90	---	.080	---	.078	---	.084	---	.077	---	.063	---	.044

NACA

TABLE VII.– CONTINUED

(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	---	---	---	---	---	---	---	---	---	---	---	---
	5	0.230	---	0.162	---	0.021	---	-0.090	---	-0.255	---	-0.412	---
	10	.150	---	.100	---	-.012	---	-.091	---	-.200	---	-.542	---
	20	---	---	---	---	---	---	---	---	---	---	---	---
	30	.093	-0.234	-.012	-0.191	-.091	-0.111	-.142	-0.060	-.234	0.026	-.325	0.108
	40	-.006	-.245	-.061	-.219	-.132	-.141	-.190	-.094	-.265	-.015	-.349	.051
	50	-.069	---	-.095	---	-.166	---	-.220	---	-.291	---	-.368	---
	60	-.081	-.272	-.111	-.241	-.170	-.175	-.222	-.125	-.281	-.062	-.380	-.009
	70	-.101	-.250	-.139	-.228	-.191	-.180	-.219	-.139	-.294	-.081	-.392	-.032
	80	-.070	-.195	-.090	-.191	-.127	-.145	-.170	-.124	-.216	-.070	-.254	-.033
	90	-.037	-.106	-.058	-.099	-.089	-.069	-.099	-.055	-.118	-.020	-.139	.002
35	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.158	---	.080	---	-.107	---	-.266	---	-.564	---	-1.010	---
	10	---	-.383	---	-.329	---	-.160	---	-.030	---	.075	---	.180
	20	-.009	-.318	-.090	-.288	-.160	-.170	-.239	-.080	-.370	.009	-.530	.090
	30	-.042	-.300	-.080	-.272	-.172	-.192	-.223	-.112	-.333	-.049	-.450	.032
	40	-.080	---	-.110	---	-.187	---	-.223	---	-.300	---	-.358	---
	50	-.088	-.233	-.110	-.222	-.160	-.175	-.193	-.130	-.248	-.075	-.272	-.030
	60	-.070	-.172	-.089	-.172	-.128	-.137	-.150	-.108	-.188	-.043	-.204	-.029
	70	-.040	-.120	-.060	-.120	-.092	-.095	-.102	-.068	-.131	-.009	-.131	-.002
	80	-.010	-.047	-.010	-.047	-.035	-.045	-.012	-.012	-.068	-.010	-.067	-.015
	90	.030	---	.018	---	.007	---	.020	---	.005	---	-.002	---
55	0	.263	---	.387	---	.484	---	.395	---	.079	---	-.230	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.233	---	-.300	---	-.148	---	-.050	---	.060	---	.170
	20	---	-.288	---	-.259	---	-.148	---	-.064	---	.022	---	.096
	30	---	-.247	---	-.232	---	-.158	---	-.087	---	-.020	---	.040
	40	-.050	---	-.090	---	-.148	---	-.182	---	-.242	---	-.271	---
	50	-.074	---	-.102	---	-.140	---	-.167	---	-.202	---	-.220	---
	60	-.050	---	-.080	---	-.109	---	-.125	---	-.151	---	-.164	---
	70	-.060	-.098	-.080	-.112	-.080	-.080	-.102	-.060	-.115	-.038	-.110	-.018
	80	.008	-.020	-.005	-0.038	-.021	-.020	-.021	.002	-.037	.010	-.038	.021
	90	.038	.025	.023	.011	.029	.027	.010	.042	.022	.038	.012	.042
75	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.129	---	.083	---	-.048	---	-.210	---	-.412	---	-.720	---
	10	---	-.282	---	-.270	---	-.113	---	0	---	.100	---	.199
	20	---	-.245	---	-.217	---	-.120	---	-.029	---	.043	---	.122
	30	-.027	-.225	-.055	-.215	-.122	-.148	-.178	-.092	-.259	-.042	-.338	.020
	40	-.050	-.205	-.080	-.207	-.138	-.147	-.177	-.092	-.232	-.048	-.270	.012
	50	-.072	---	-.091	---	-.140	---	-.160	---	-.205	---	-.218	---
	60	-.045	-.112	-.060	-.140	-.102	-.120	-.110	-.072	-.142	-.054	-.157	-.013
	70	-.020	-.070	-.038	-.082	-.060	-.070	-.068	-.047	-.090	-.030	-.090	0
	80	.007	---	.008	---	-.003	---	-.009	---	-.020	---	-.020	---
	90	.057	.035	.040	.026	.019	.040	.042	.045	.034	.005	.025	.048
95	0	.150	---	.310	---	.492	---	.494	---	.362	---	.223	---
	5	.101	---	.072	---	-.088	---	-.240	---	-.450	---	-.629	---
	10	.032	-.280	-.008	-.254	-.118	-.122	-.217	-.025	-.347	.062	-.526	.130
	20	-.062	-.204	-.092	-.219	-.150	-.168	-.200	-.112	-.236	-.068	-.310	-.013
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.088	-.130	-.102	-.140	-.113	-.118	-.130	-.103	-.150	-.080	-.178	-.080
	50	-.080	-.108	-.080	-.108	-.095	-.096	-.122	-.087	-.118	-.075	-.137	-.075
	60	-.040	-.062	-.057	-.067	-.048	-.067	-.062	-.067	-.056	-.062	-.062	-.062
	70	.002	---	.008	---	.006	---	-.007	---	-.014	---	-.038	---
	80	.054	---	.055	---	.060	---	.052	---	.048	---	.032	---
	90	---	.082	---	.085	---	.088	---	.080	---	.060	---	.043

(i) M,0.88.

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	0.200	---	0.160	---	0.030	---	-0.085	---	-0.245	---	-0.412	---
	10	.120	---	.106	---	-.002	---	-.085	---	-.207	---	-.343	---
	20	---	---	---	---	---	---	---	---	---	---	---	---
	30	.001	-0.209	-.009	-0.192	-.079	-0.108	-.144	-0.033	-.238	0.024	-.344	0.112
	40	-.042	-.229	-.059	-.218	-.130	-.147	-.188	-.074	-.268	-.030	-.348	.057
	50	-.083	---	-.098	---	-.168	---	-.218	---	-.300	---	-.377	---
	60	-.102	-.265	-.110	-.245	-.169	-.176	-.219	-.110	-.310	-.072	-.389	0
	70	-.114	-.274	-.121	-.244	-.171	-.189	-.220	-.122	-.309	-.092	-.413	-.030
	80	-.083	-.209	-.095	-.190	-.140	-.145	-.160	-.094	-.237	-.078	-.357	-.021
	90	-.049	-.107	-.060	-.096	-.076	-.079	-.094	-.039	-.133	-.041	-.167	.004
35	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.090	---	.080	---	.088	---	-.268	---	-.578	---	-1.093	---
	10	---	-.329	---	-.312	---	-.150	---	-.008	---	.083	---	.183
	20	-.048	-.130	-.037	-.266	-.148	-.162	-.230	-.056	-.360	.020	-.510	.100
	30	-.075	-.298	-.098	-.282	-.165	-.182	-.230	-.098	-.335	-.038	-.497	.032
	40	-.110	---	-.103	---	-.178	---	-.230	---	-.302	---	-.470	---
	50	-.120	-.240	-.110	-.222	-.160	-.175	-.190	-.110	-.240	-.077	-.386	-.028
	60	-.088	-.187	-.078	-.180	-.120	-.128	-.144	-.082	-.187	-.063	-.180	-.027
	70	-.054	-.120	-.052	-.108	-.080	-.088	-.090	-.045	-.124	-.030	-.119	-.013
	80	-.024	-.049	-.006	-.042	-.020	-.022	-.038	.013	-.049	.020	-.057	.002
	90	.022	---	.030	---	.022	---	.032	---	.020	---	.009	---
55	0	.328	---	.394	---	.488	---	.380	---	.094	---	-.210	---
	5	---	---	---	---	---	---	---	---	---	---	---	---
	10	---	-.178	---	-.260	---	-.160	---	-.029	---	.078	---	.170
	20	---	-.262	---	-.255	---	-.140	---	-.057	---	.020	---	.094
	30	---	-.230	---	-.238	---	-.152	---	-.080	---	-.029	---	.040
	40	-.090	---	-.098	---	-.142	---	-.190	---	-.260	---	-.257	---
	50	-.090	---	-.098	---	-.130	---	-.170	---	-.213	---	-.222	---
	60	-.062	---	-.075	---	-.100	---	-.128	---	-.168	---	-.168	---
	70	-.045	-.093	-.056	-.105	-.072	-.080	-.090	-.048	-.120	-.047	-.113	-.022
	80	.005	-.010	-.002	-.030	-.018	-.014	-.024	-.001	-.034	.007	-.040	.022
	90	.037	.035	.035	.024	.024	.035	.020	.034	.020	.035	.022	.042
75	0	---	---	---	---	---	---	---	---	---	---	---	---
	5	.081	---	.092	---	-.057	---	-.222	---	-.438	---	-.980	---
	10	---	-.238	---	-.264	---	-.100	---	.020	---	.108	---	.199
	20	---	-.220	---	-.209	---	-.092	---	-.012	---	.054	---	.122
	30	-.052	-.162	-.052	-.170	-.117	-.093	-.178	-.035	-.260	-.008	-.293	.062
	40	-.077	-.200	-.070	-.200	-.128	-.138	-.175	-.082	-.236	-.048	-.258	.012
	50	-.080	---	-.086	---	-.118	---	-.158	---	-.202	---	-.218	---
	60	-.058	-.122	-.052	-.130	-.077	-.080	-.110	-.062	-.140	-.048	-.150	-.010
	70	-.026	-.064	-.030	-.082	-.050	-.052	-.064	-.037	-.087	-.030	-.086	-.012
	80	.020	---	.018	---	.011	---	-.003	---	-.020	---	-.023	---
	90	.050	.036	.058	.036	.058	.040	.048	.048	.040	.035	.033	.032
95	0	.234	---	.302	---	.494	---	.509	---	.364	---	.207	---
	5	.047	---	.070	---	-.080	---	-.240	---	-.480	---	-.782	---
	10	-.008	-.244	-.012	-.258	-.111	-.127	-.210	-.008	-.368	.064	-.578	.142
	20	-.092	-.200	-.100	-.217	-.150	-.171	-.190	-.101	-.242	-.061	-.362	-.004
	30	---	---	---	---	---	---	---	---	---	---	---	---
	40	-.108	-.130	-.100	-.138	-.110	-.126	-.118	-.100	-.150	-.097	-.162	-.082
	50	-.087	-.108	-.099	-.107	-.099	-.099	-.092	-.080	-.112	-.072	-.121	-.072
	60	-.038	-.060	-.058	-.067	-.048	-.060	-.037	-.050	-.060	-.055	-.077	-.050
	70	0	---	0	---	.010	---	.012	---	-.010	---	-.035	---
	80	.172	---	.108	---	.079	---	.072	---	.054	---	.035	---
	90	---	.087	---	.088	---	.088	---	.088	---	.070	---	.050

NACA

TABLE VII.– CONTINUED

(j) M,0.90.

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	---	---	---	---	---	---	---	---	---	---
	5	0.219	---	0.140	---	0.030	---	-0.089	---	-0.224	---
	10	.136	---	.082	---	-.001	---	-.091	---	-.187	---
	20	---	---	---	---	---	---	---	---	---	---
	30	.012	-0.224	-.030	-0.200	-.094	-0.131	-.157	-0.048	-.222	0.019
	40	-.039	-.241	-.081	-.225	-.139	-.164	-.191	-.091	-.257	-.029
	50	-.069	---	-.121	---	-.183	---	-.232	---	-.266	---
	60	-.100	-.281	-.159	-.272	-.192	-.207	-.240	-.133	-.309	-.080
	70	-.115	-.305	-.141	-.280	-.209	-.213	-.262	-.132	-.330	-.096
	80	-.094	-.262	-.129	-.231	-.171	-.079	-.206	-.120	-.258	-.080
	90	-.052	-.125	-.081	-.125	-.106	-.104	-.115	-.062	-.132	-.084
35	0	---	---	---	---	---	---	---	---	---	---
	5	.110	---	.093	---	-.092	---	-.273	---	-.575	---
	10	---	-.378	---	-.130	---	-.180	---	-.088	---	.065
	20	-.042	-.360	-.065	-.300	-.160	-.168	-.293	-.075	-.360	-.004
	30	-.075	-.350	-.102	-.310	-.182	-.215	-.261	-.120	-.375	-.060
	40	-.108	---	-.132	---	-.191	---	-.249	---	-.362	---
	50	-.118	-.245	-.130	-.231	-.170	-.186	-.200	-.130	-.246	-.090
	60	-.092	-.190	-.102	-.180	-.130	-.145	-.153	-.102	-.185	-.080
	70	-.060	-.128	-.070	-.110	-.099	-.092	-.110	-.060	-.121	-.040
	80	-.029	-.062	-.029	-.048	-.029	-.025	-.030	-.019	-.060	0
	90	.015	---	.029	---	.022	---	.015	---	.001	---
55	0	.330	---	.408	---	.491	---	.386	---	.135	---
	5	---	---	---	---	---	---	---	---	---	---
	10	---	-.268	---	-.320	---	-.200	---	-.049	---	.041
	20	---	-.278	---	-.270	---	-.160	---	-.070	---	.018
	30	---	-.262	---	-.254	---	-.172	---	-.092	---	-.030
	40	-.075	---	-.110	---	-.158	---	-.210	---	-.248	---
	50	-.088	---	-.120	---	-.148	---	-.182	---	-.204	---
	60	-.060	---	-.095	---	-.120	---	-.150	---	-.155	---
	70	-.055	-.102	-.075	-.120	-.092	-.092	-.108	-.060	-.108	-.040
	80	-.002	-.075	-.014	-.055	-.020	-.030	-.026	-.003	-.028	.010
	90	.020	.020	.013	.011	.028	.030	.018	.030	.029	.048
75	0	---	---	---	---	---	---	---	---	---	---
	5	.100	---	.070	---	-.060	---	-.238	---	-.477	---
	10	---	-.287	---	-.274	---	-.133	---	-.007	---	.098
	20	---	-.248	---	-.209	---	-.112	---	-.026	---	.052
	30	-.052	-.197	-.066	-.188	-.130	-.138	-.205	-.068	-.248	-.001
	40	-.070	-.230	-.096	-.213	-.157	-.157	-.195	-.102	-.230	-.047
	50	-.092	---	-.102	---	-.145	---	-.178	---	-.198	---
	60	-.060	-.140	-.072	-.145	-.106	-.112	-.130	-.082	-.138	-.049
	70	-.037	-.090	-.045	-.090	-.070	-.078	-.080	-.058	-.081	-.030
	80	.001	---	-.002	---	-.020	---	-.020	---	-.020	---
	90	.040	.030	.030	.024	.030	.025	.045	.022	.044	.045
95	0	.210	---	.310	---	.483	---	.498	---	.384	---
	5	.079	---	.050	---	-.090	---	-.248	---	-.498	---
	10	.008	-.282	-.028	-.242	-.130	-.147	-.230	-.021	-.145	.066
	20	-.102	-.275	-.170	-.271	-.178	-.206	-.230	-.131	-.272	-.076
	30	---	---	---	---	---	---	---	---	---	---
	40	-.112	-.145	-.122	-.118	-.139	-.131	-.140	-.112	-.147	-.100
	50	-.099	-.112	-.099	-.111	-.092	-.110	-.112	-.098	-.109	-.066
	60	-.072	-.072	-.060	-.078	-.049	-.070	-.050	-.058	-.057	-.058
	70	-.005	---	0	---	.004	---	-.005	---	-.008	---
	80	.055	---	.051	---	.051	---	.052	---	.057	---
	90	---	.084	---	.083	---	.070	---	.082	---	.076

(k) M,0.92.

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	---	---	---	---	---	---	---	---	---	---
	5	0.248	---	0.160	---	0.017	---	-0.091	---	-0.220	---
	10	.162	---	.100	---	-.002	---	-.091	---	-.170	---
	20	---	---	---	---	---	---	---	---	---	---
	30	.018	-0.222	-.012	-0.191	-.099	-0.096	-.168	-0.039	-.218	0.032
	40	-.010	-.239	-.067	-.223	-.137	-.137	-.202	-.085	-.249	-.013
	50	-.070	---	-.108	---	-.189	---	-.239	---	-.280	---
	60	-.089	-.288	-.132	-.272	-.208	-.189	-.267	-.131	-.309	-.071
	70	-.091	-.309	-.150	-.291	-.212	-.208	-.291	-.158	-.338	-.094
	80	-.095	-.302	-.130	-.268	-.204	-.184	-.273	-.138	-.339	-.081
	90	-.060	-.212	-.089	-.160	-.129	-.090	-.179	-.078	-.261	-.042
35	0	---	---	---	---	---	---	---	---	---	---
	5	.122	---	.068	---	-.125	---	-.322	---	-.600	---
	10	---	-.367	---	-.328	---	-.138	---	-.020	---	.065
	20	-.023	-.352	-.060	-.305	-.180	-.162	-.292	-.078	-.376	-.002
	30	-.065	-.352	-.100	-.331	-.210	-.200	-.320	-.130	-.389	-.045
	40	-.099	---	-.135	---	-.220	---	-.345	---	-.418	---
	50	-.110	-.398	-.120	-.293	-.178	-.178	-.295	-.142	-.432	-.100
	60	-.075	-.180	-.092	-.163	-.128	-.128	-.162	-.111	-.210	-.075
	70	-.050	-.100	-.060	-.112	-.088	-.083	-.110	-.068	-.105	-.050
	80	-.008	-.032	-.020	-.050	-.012	-.012	-.050	0	-.050	0
	90	.030	---	.030	---	.020	---	.008	---	.008	---
55	0	.278	---	.410	---	.493	---	.354	---	.137	---
	5	---	---	---	---	---	---	---	---	---	---
	10	---	-.210	---	-.370	---	-.150	---	-.019	---	.044
	20	---	-.326	---	-.276	---	-.142	---	-.051	---	.010
	30	---	-.226	---	-.250	---	-.158	---	-.080	---	-.038
	40	-.060	---	-.100	---	-.177	---	-.230	---	-.230	---
	50	-.071	---	-.100	---	-.152	---	-.198	---	-.212	---
	60	-.049	---	-.090	---	-.120	---	-.147	---	-.170	---
	70	-.040	-.101	-.074	-.127	-.110	-.080	-.080	-.060	-.125	-.050
	80	.012	-.030	-.010	-.033	-.022	-.010	-.045	-.010	-.033	.001
	90	.041	.024	.020	.010	.020	.024	.012	.038	.010	.042
75	0	---	---	---	---	---	---	---	---	---	---
	5	.084	---	.084	---	-.111	---	-.272	---	-.590	---
	10	---	-.263	---	-.280	---	-.098	---	.012	---	.103
	20	---	-.248	---	-.209	---	-.090	---	-.019	---	.053
	30	-.084	-.200	-.060	-.192	-.153	-.111	-.226	-.062	-.270	-.004
	40	-.050	-.211	-.082	-.215	-.160	-.147	-.212	-.098	-.237	-.048
	50	-.069	---	-.095	---	-.158	---	-.202	---	-.219	---
	60	-.037	-.136	-.064	-.140	-.128	-.101	-.140	-.080	-.150	-.048
	70	-.020	-.066	-.042	-.087	-.074	-.069	-.093	-.052	-.087	-.028
	80	.020	---	.008	---	-.011	---	-.029	---	-.029	---
	90	.061	.042	.052	.032	.040	.027	.030	.025	.026	.040
95	0	.160	---	.128	---	.513	---	.490	---	.383	---
	5	.060	---	.070	---	-.122	---	-.301	---	-.607	---
	10	.030	-.282	-.027	-.252	-.148	-.099	-.268	0	-.360	.072
	20	-.070	-.278	-.110	-.258	-.207	-.192	-.292	-.128	-.328	-.077
	30	---	---	---	---	---	---	---	---	---	---
	40	-.086	-.146	-.115	-.131	-.122	-.115	-.138	-.115	-.146	-.100
	50	-.072	-.099	-.080	-.085	-.098	-.095	-.126	-.092	-.117	-.081
	60	-.031	-.058	-.040	-.050	-.045	-.045	-.055	-.042	-.061	-.042
	70	.016	---	.015	---	.005	---	-.005	---	-.005	---
	80	.079	---	.064	---	.070	---	.057	---	.057	---
	90	---	.095	---	.101	---	.100	---	.089	---	.081

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	-0.024	-.208	0.025
	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	-.390	-.005
	70	-.062	-.158	-.070	-.090	-.070	-.070	-.090	-.060	-.168	-.060
	80	-.010	-.038	-.020	-.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	.038	.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	-.137	-.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	---	.410	---
	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	-.085
	60	-.035	-.045	-.032	-.060	-.050	-.061	-.042	-.050	-.040	-.030
	70	.018	---	.015	---	.009	---	.005	---	.012	---
	80	.085	---	.067	---	.067	---	.073	---	.071	---
	90	---	.107	---	.100	---	.088	---	.083	---	.078

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

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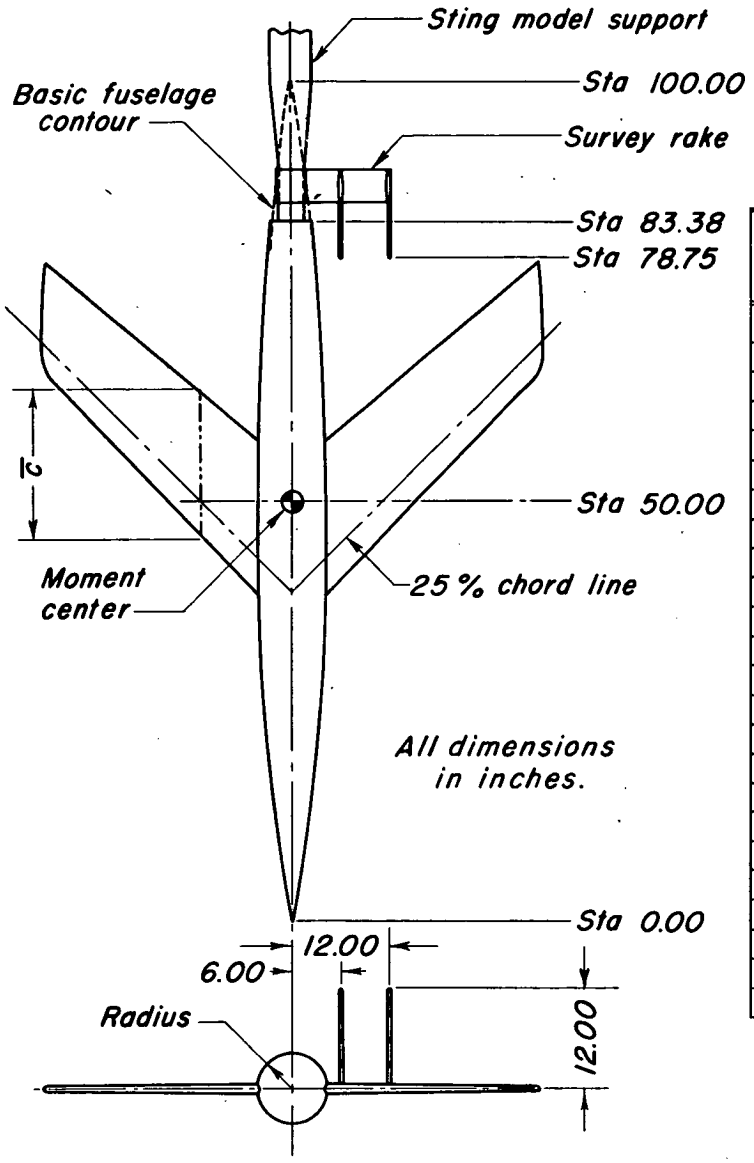
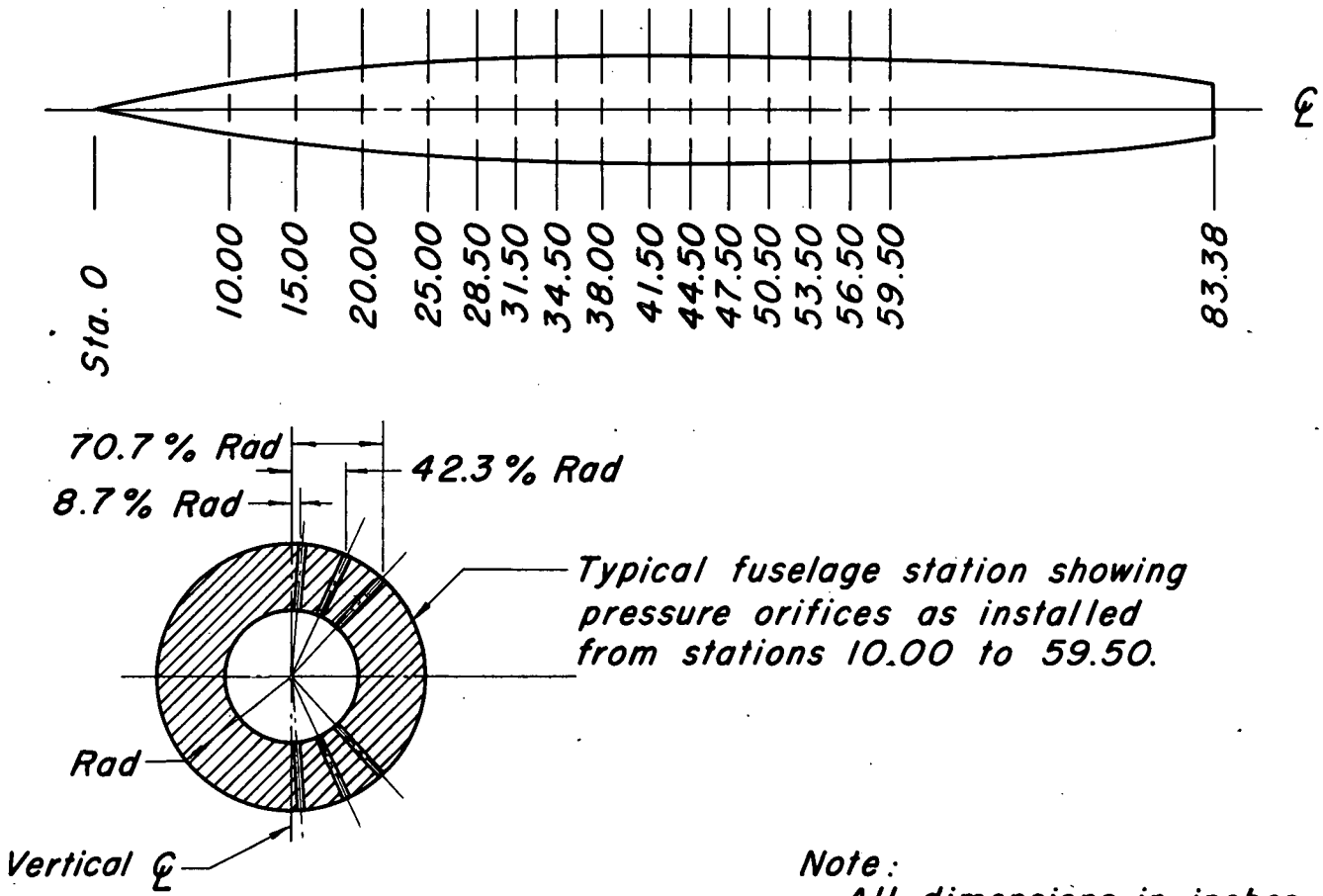


Basic fuselage coordinates	
Sta	Radius
0.00	0.00
2.50	0.722
5.00	1.205
7.50	1.613
10.00	1.971
15.00	2.593
20.00	3.090
25.00	3.465
30.00	3.741
35.00	3.933
40.00	4.063
45.00	4.143
50.00	4.167
55.00	4.130
60.00	4.024
65.00	3.842
70.00	3.562
75.00	3.128
80.00	2.526
85.00	1.852
90.00	1.125
95.00	0.439
100.00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

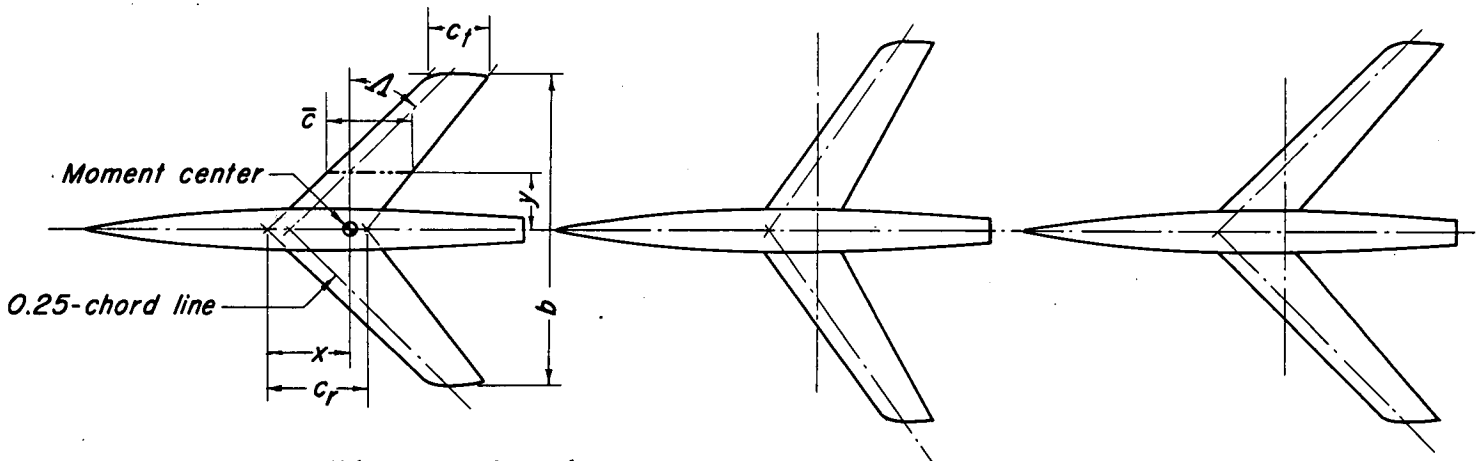
(a) Dimensions and coordinates.

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



(b) Fuselage pressure-orifice locations.

Figure 2.- Concluded.



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

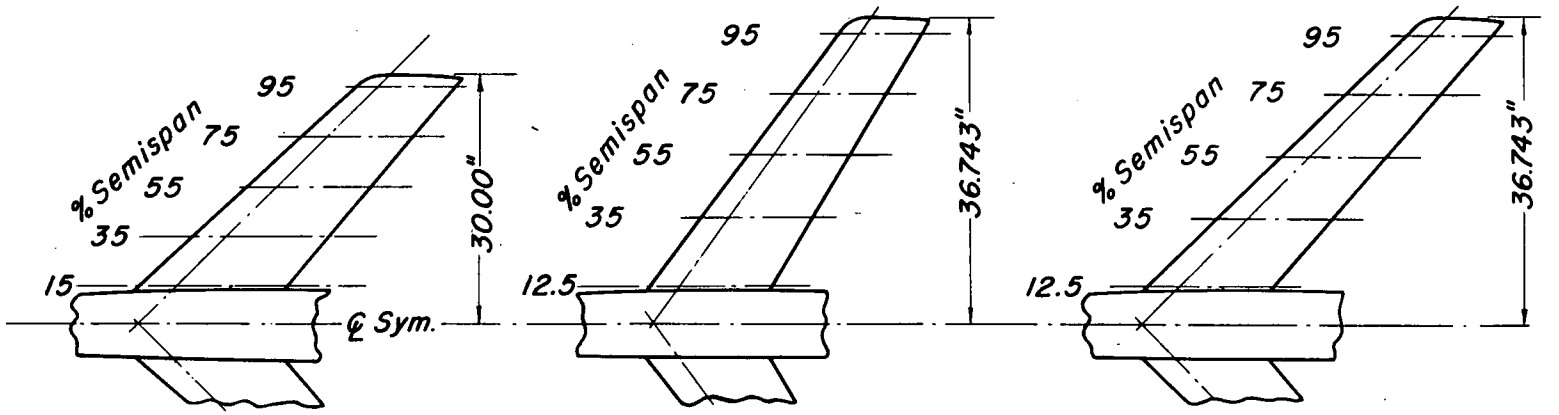
Wing	λ	b	c_r	c_t	$\bar{c}$	x	y	S
(a)	0.6	60.000	18.750	11.250	15.313	18.438	13.750	6.25
(b)	0.6	73.485	15.310	9.190	12.503	15.621	16.840	6.25
(c)	0.6	73.485	15.310	9.190	12.503	20.669	16.840	6.25

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.



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.

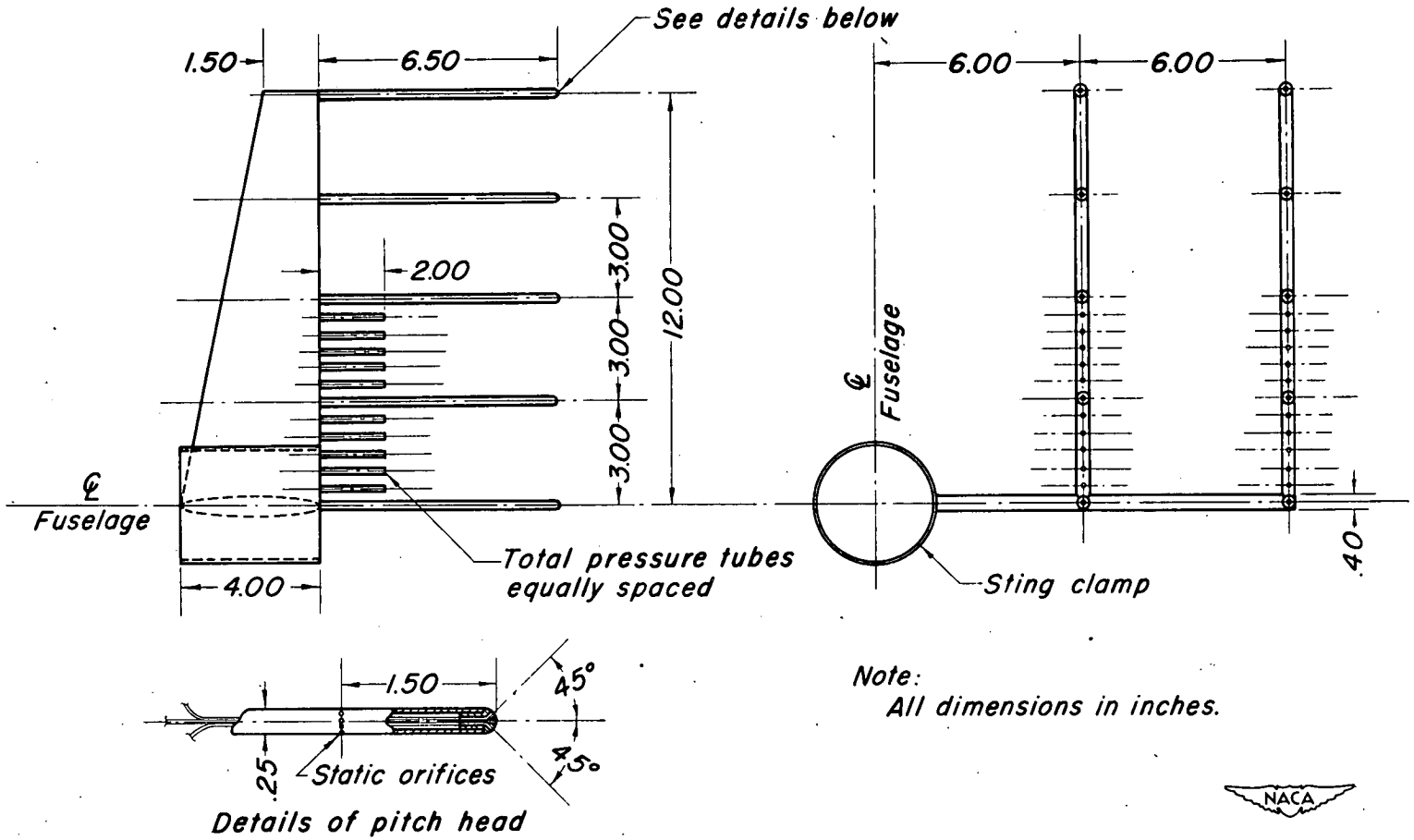
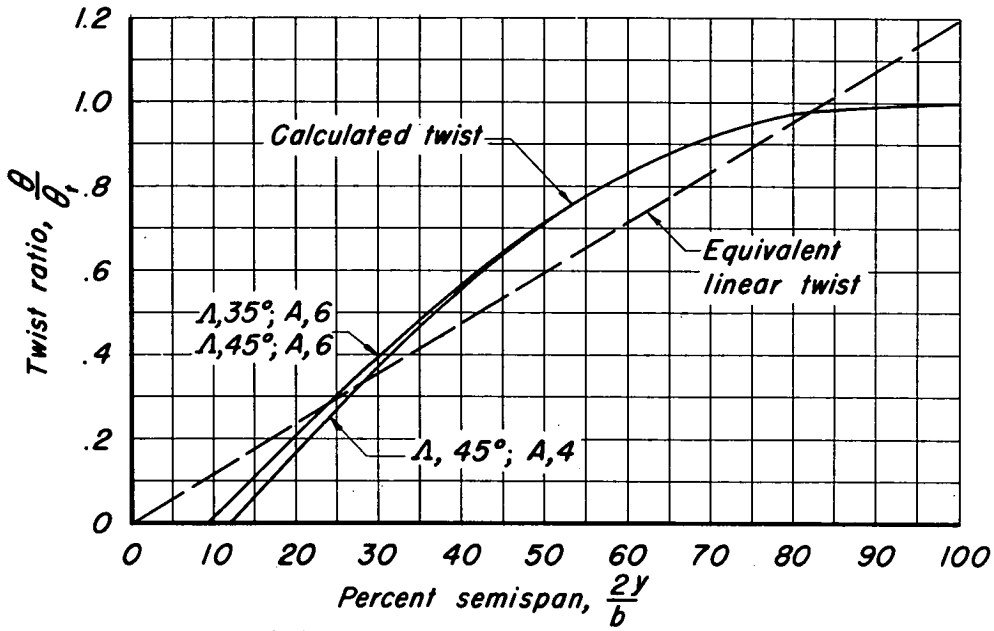
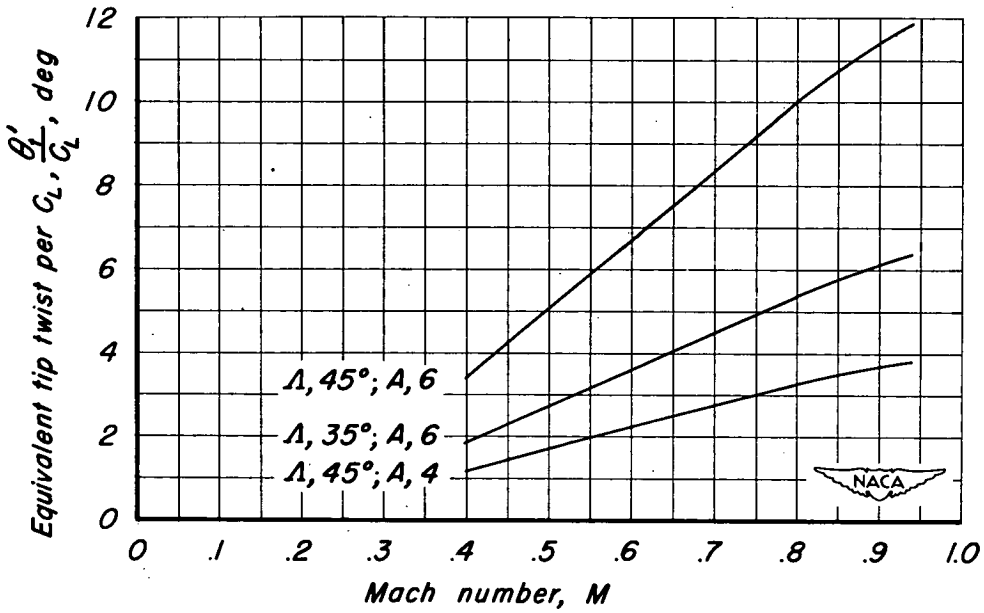


Figure 4.–Survey rake details and dimensions.



(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.

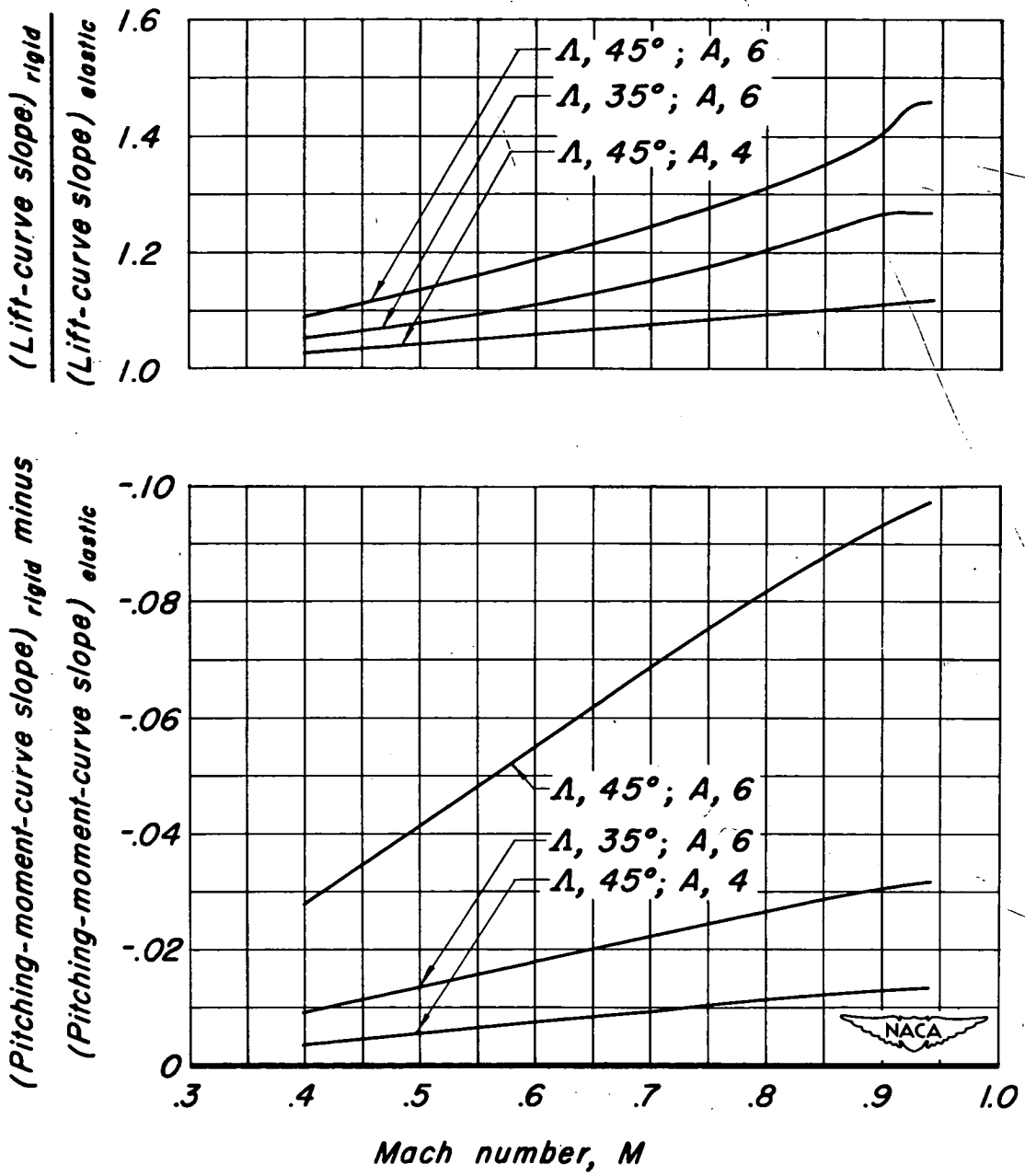
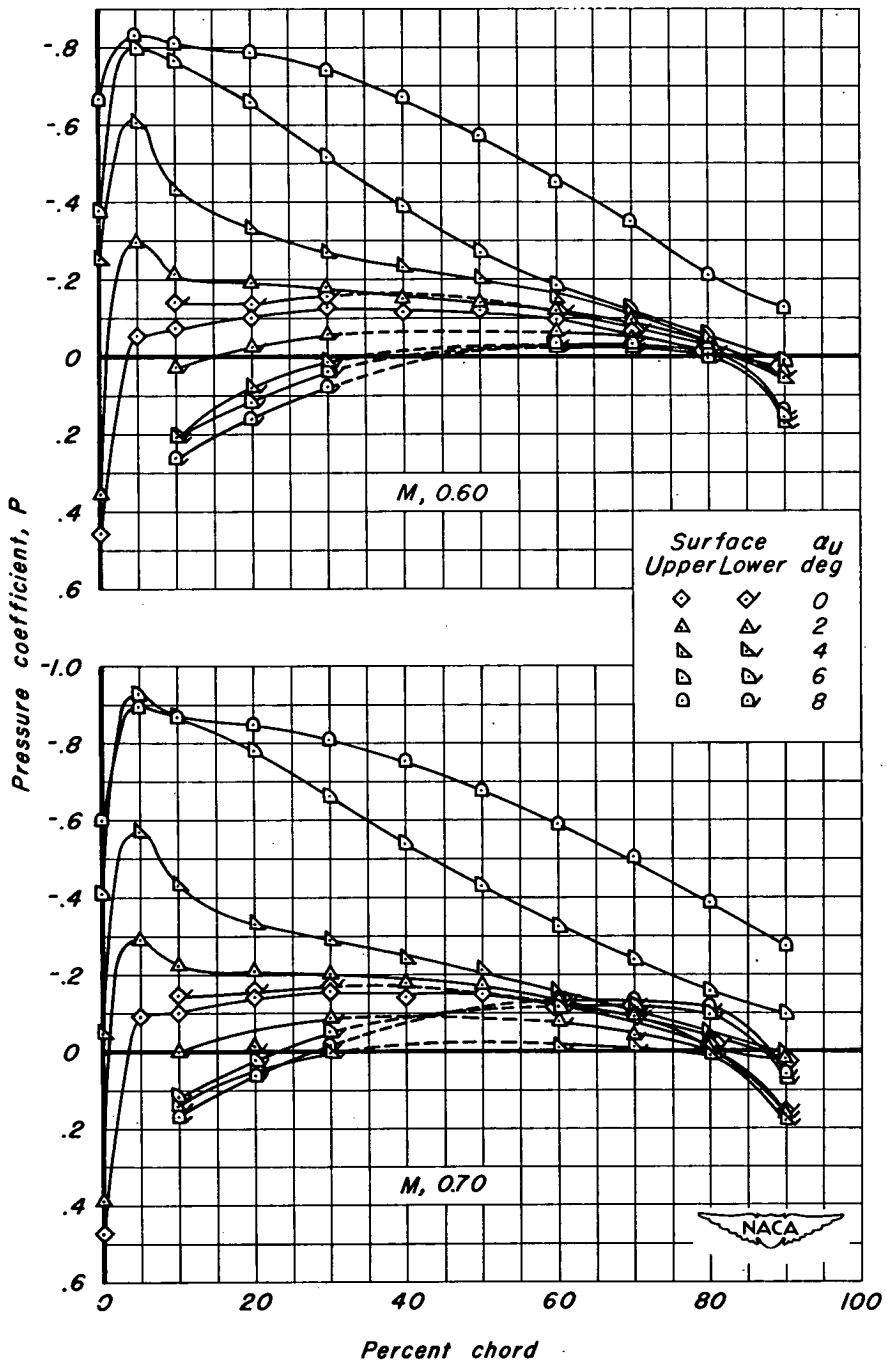
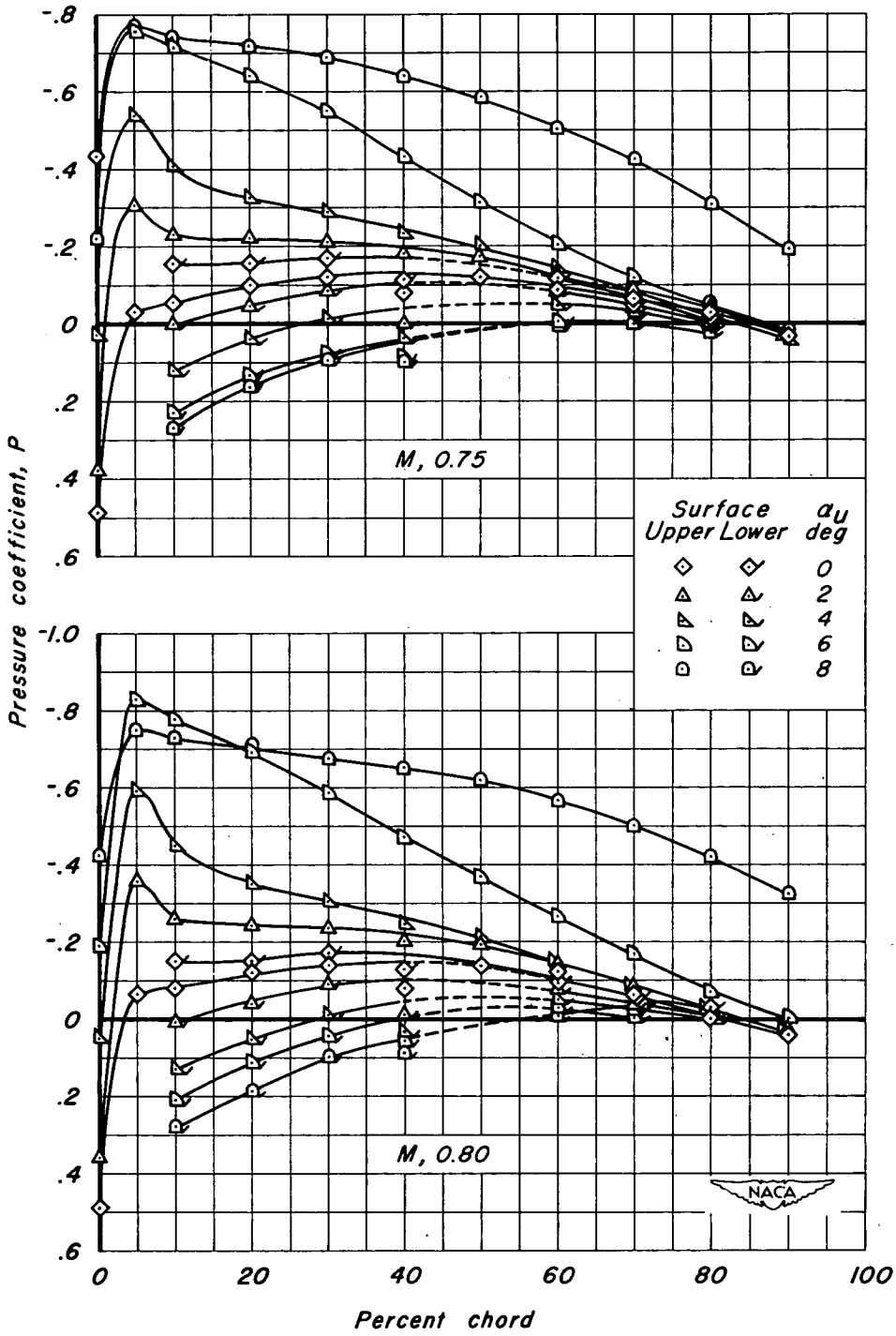


Figure 6.— Effect of aeroelastic twist on the lift-curve and pitching-moment-curve slopes for the three wing-fuselage combinations.



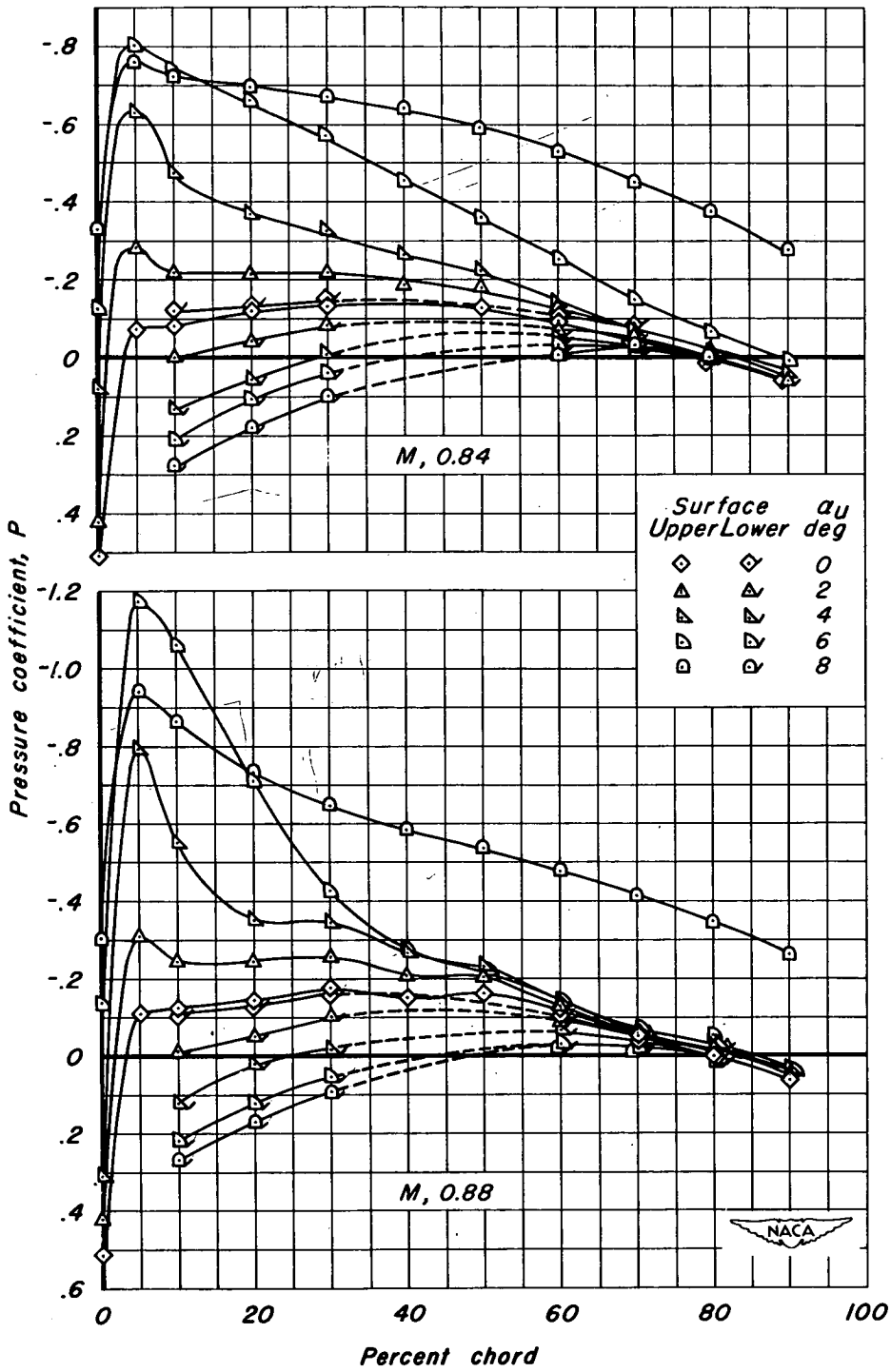
(a) M, 0.60 and 0.70.

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.



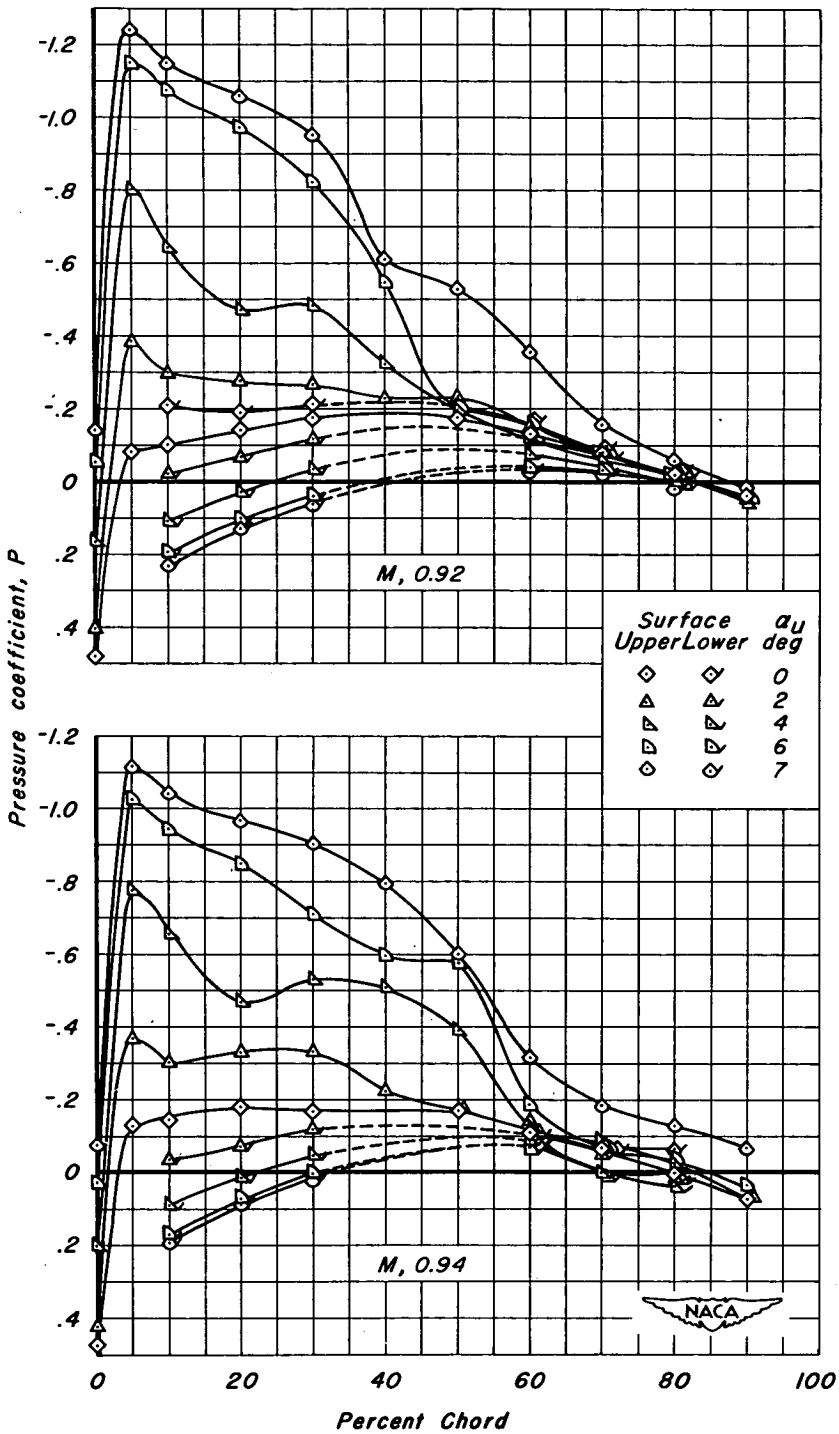
(b) M, 0.75 and 0.80.

Figure 7.–Continued.



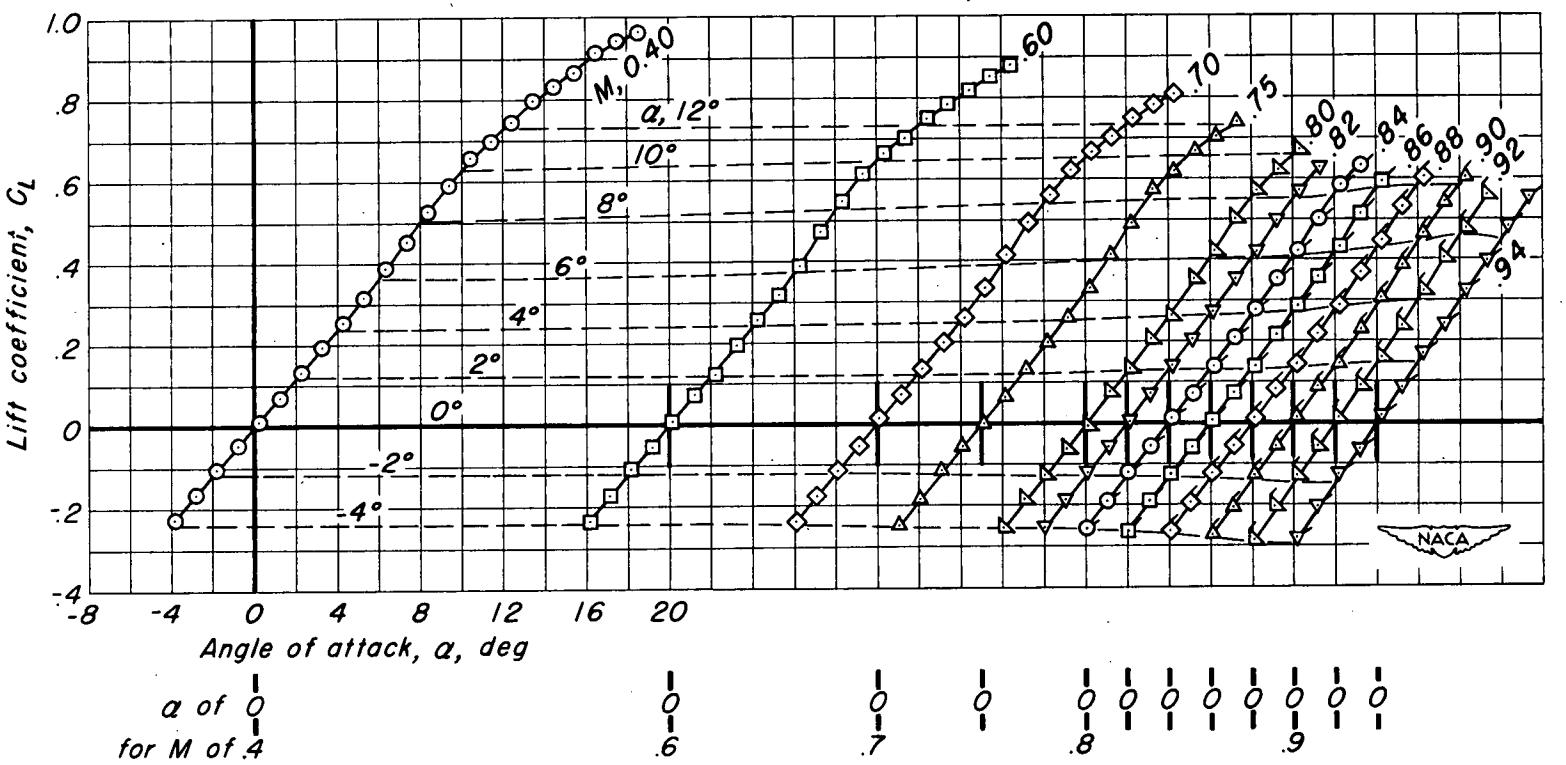
(c) M, 0.84 and 0.88.

Figure 7.- Continued.



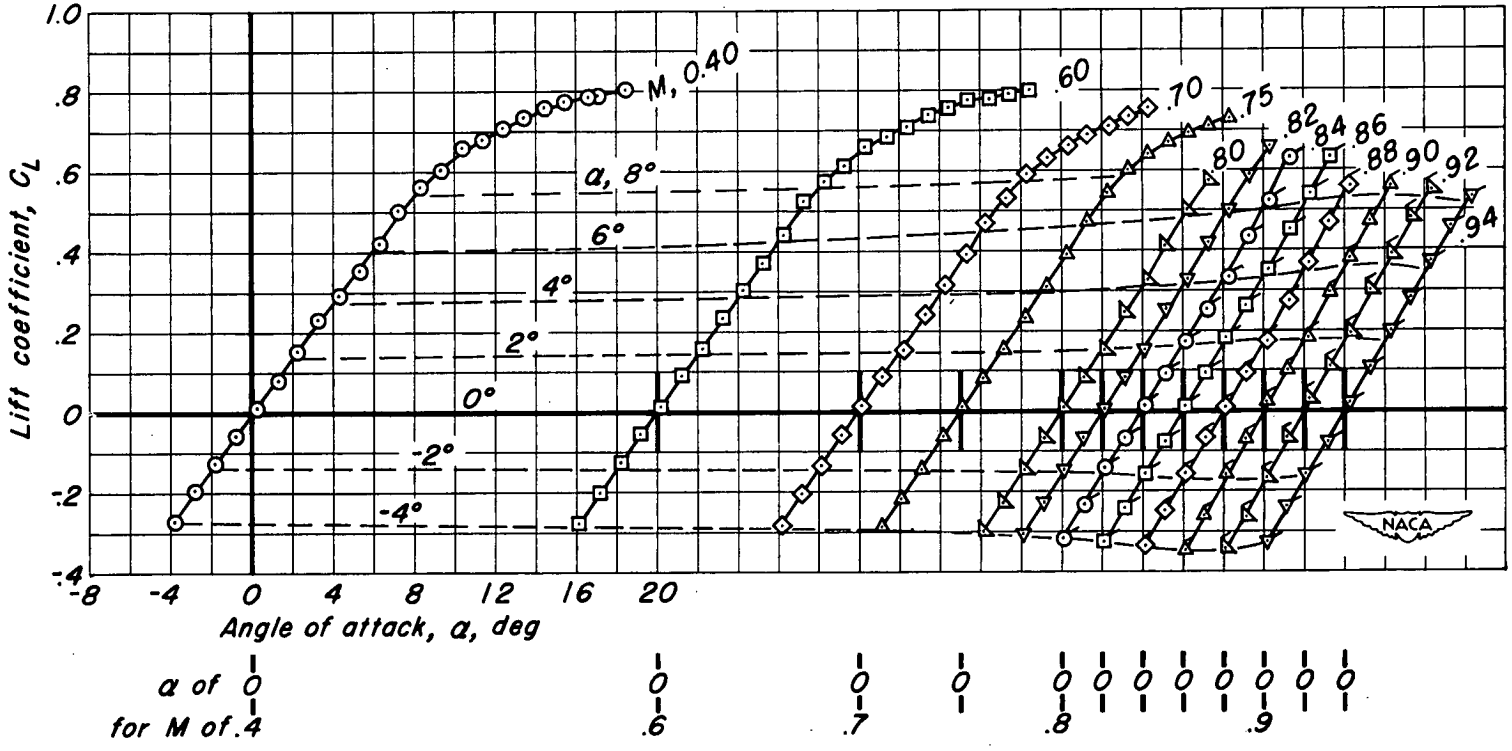
(d) M, 0.92 and 0.94.

Figure 7.–Concluded.



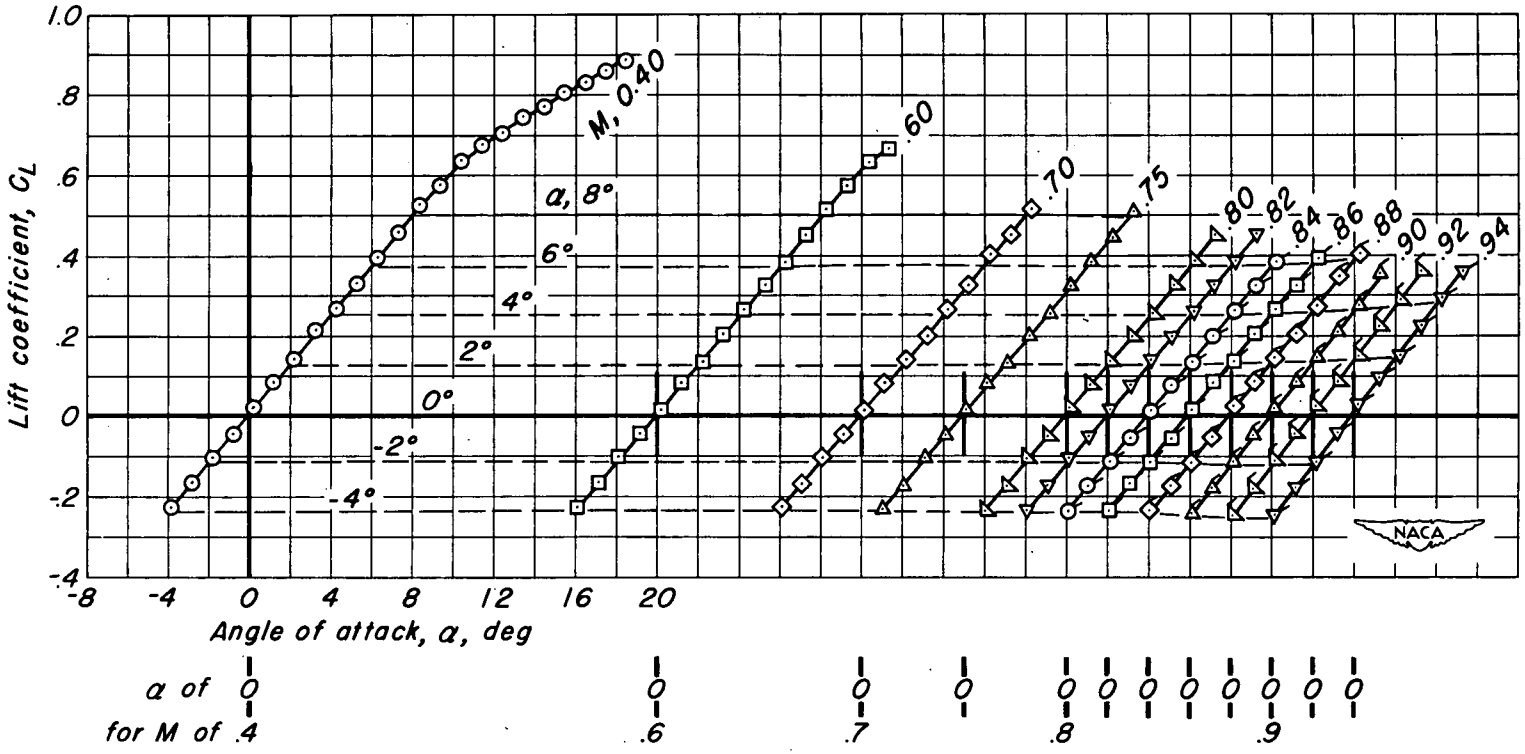
(a) Wing Λ, 45°; A, 4.

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



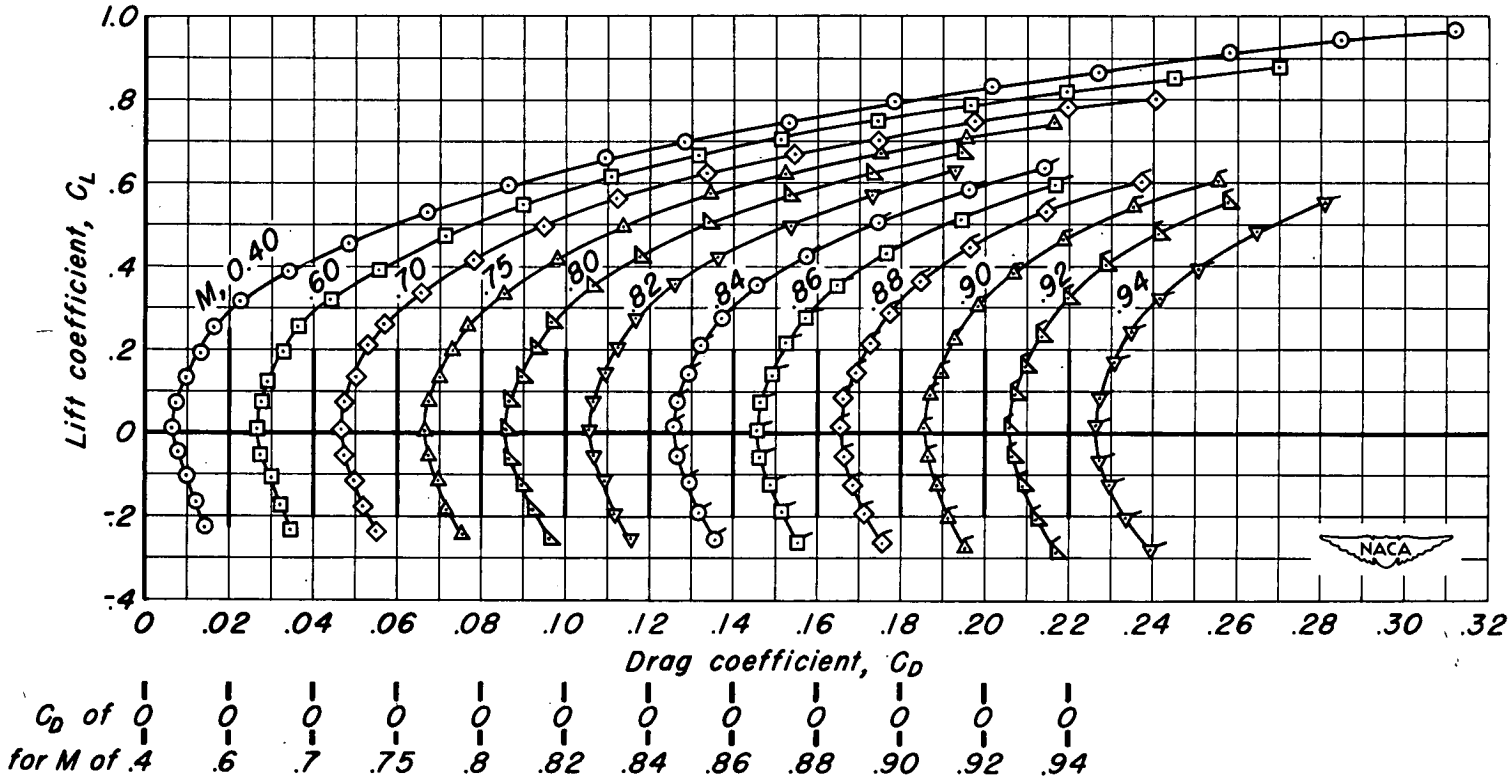
(b) Wing Λ, 35°; A, 6.

Figure 8.—Continued.



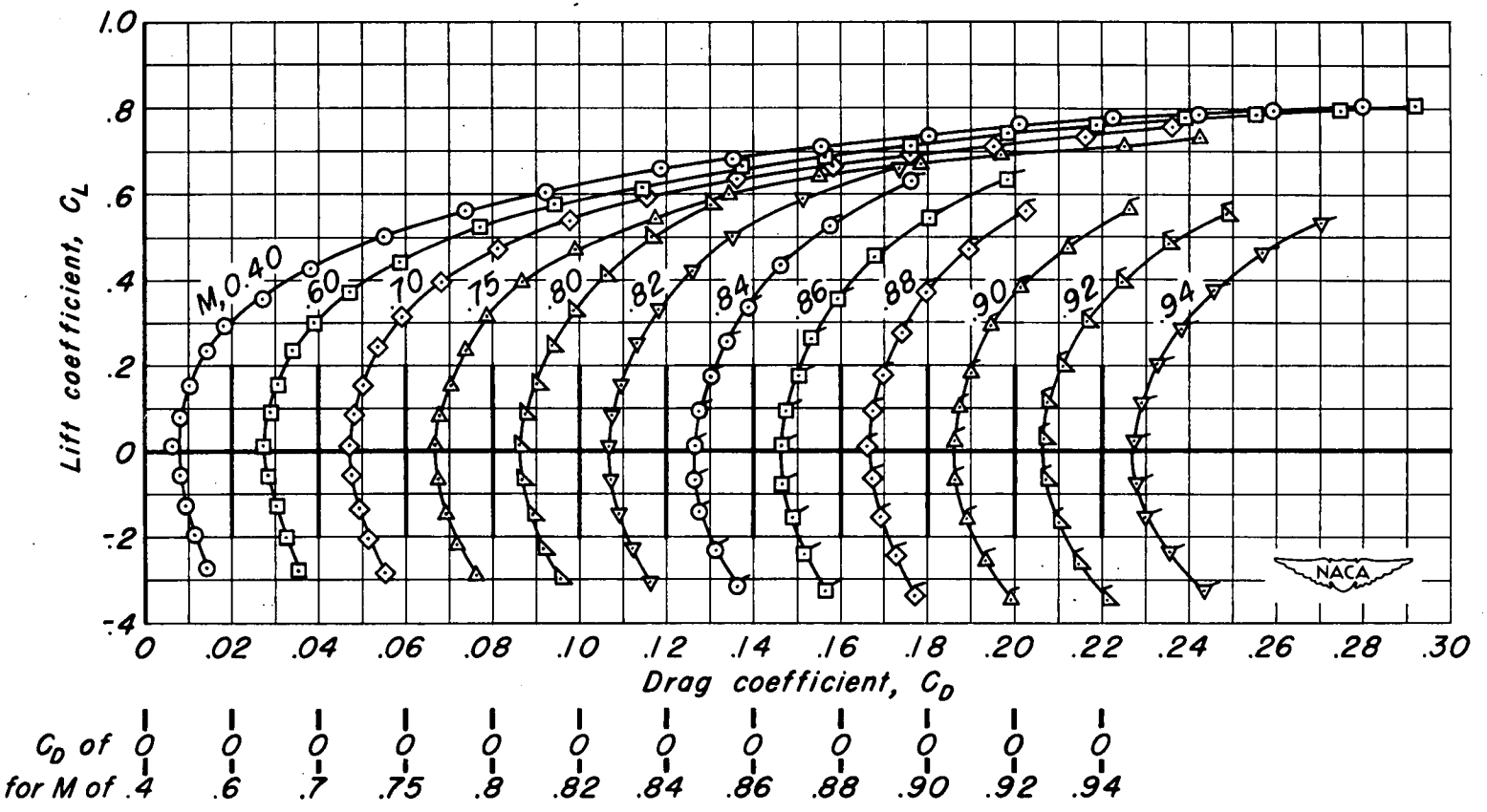
(c) Wing Λ, 45°; A, 6.

Figure 8.–Concluded.



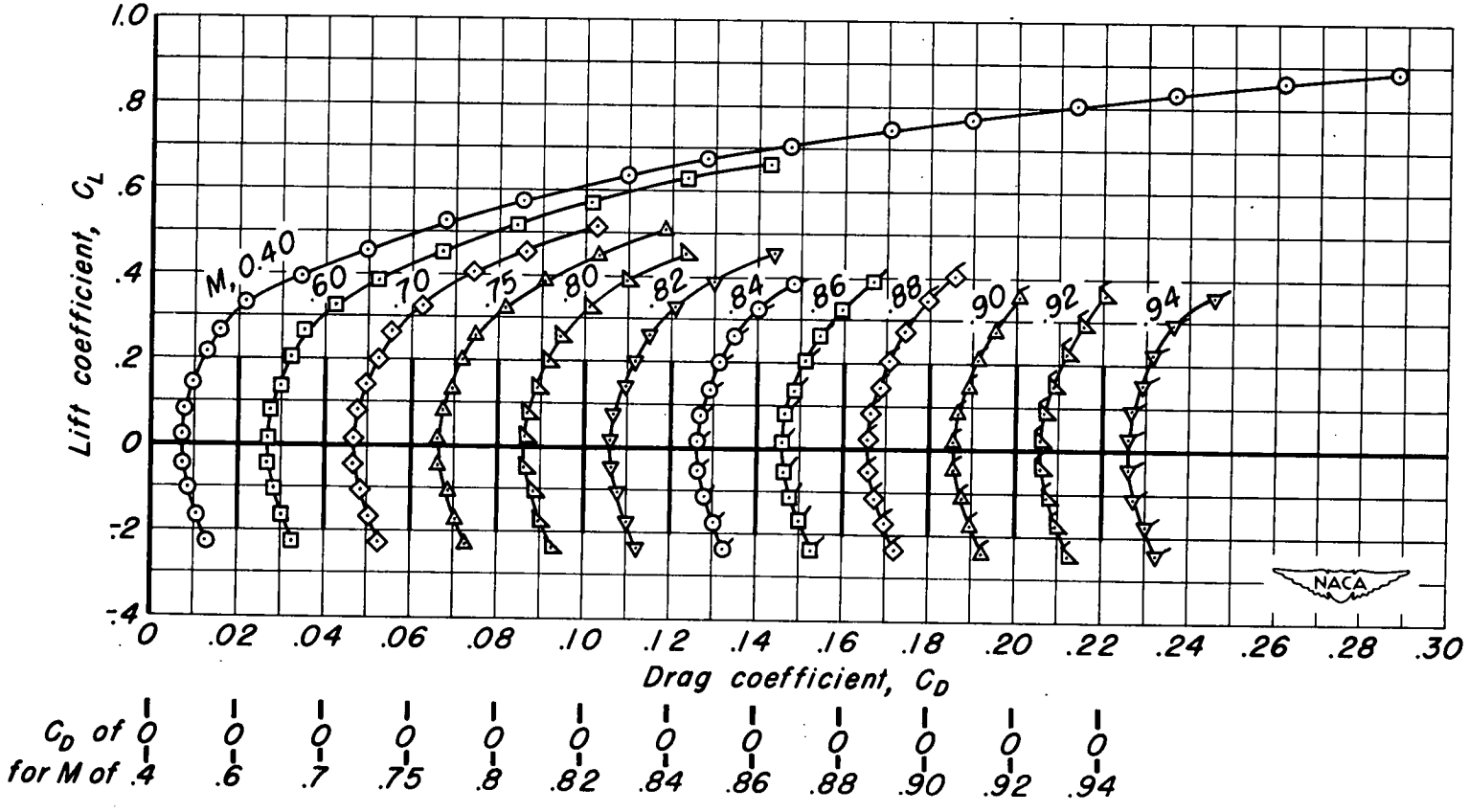
(a) Wing Λ, 45°; A, 4.

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



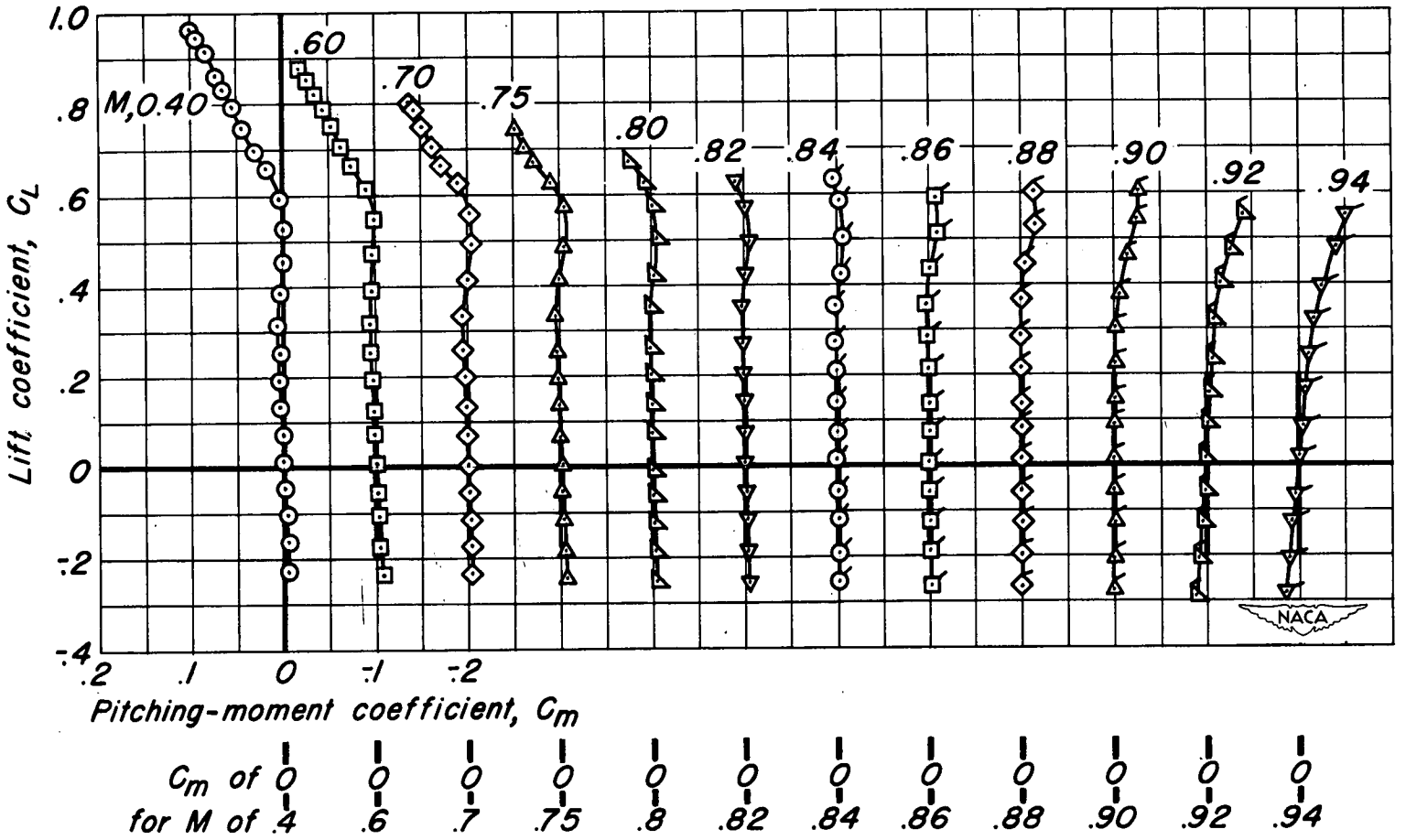
(b) Wing Λ, 35°; A, 6.

Figure 9.—Continued.



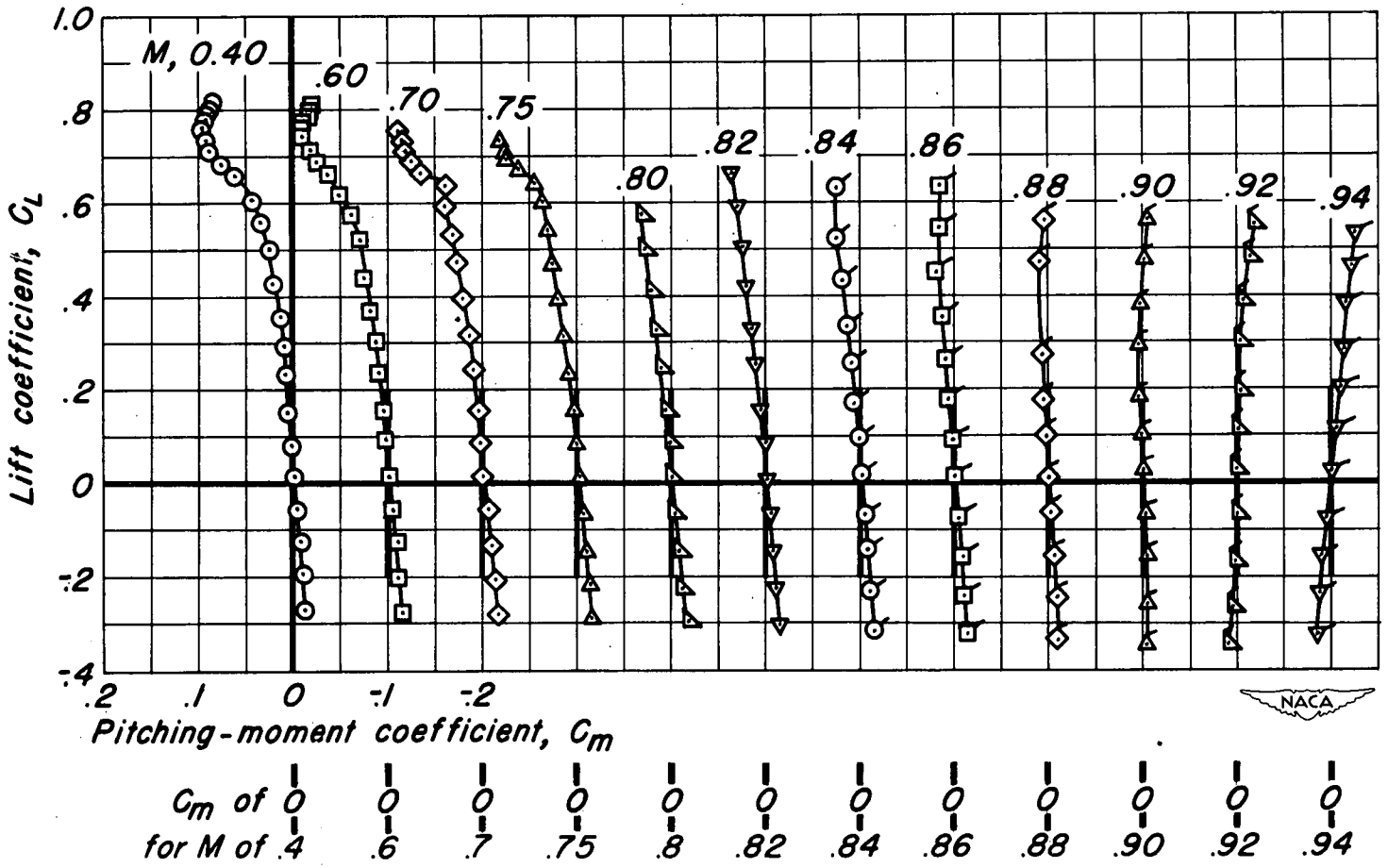
(c) Wing Λ, 45°; A, 6.

Figure 9.–Concluded.



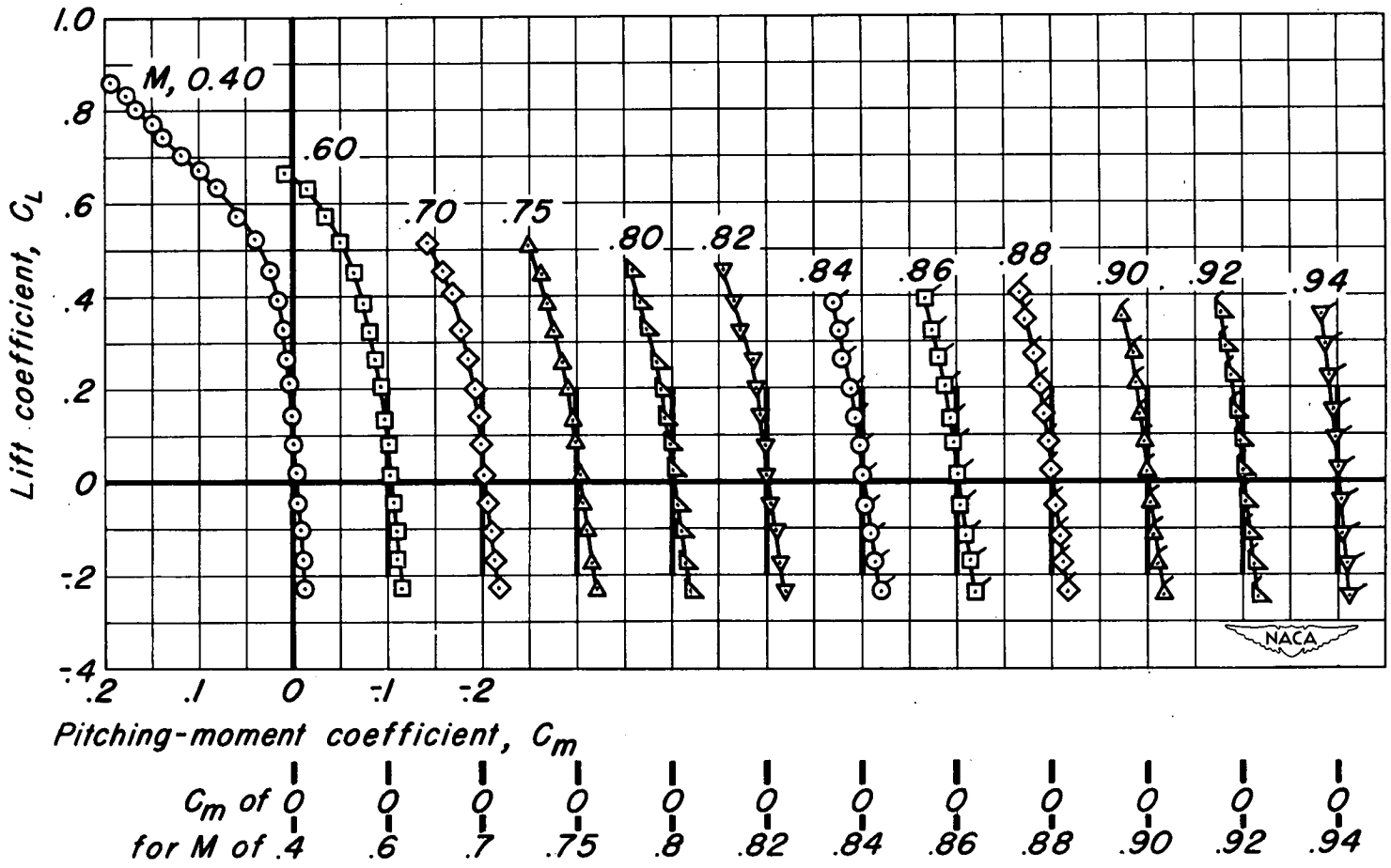
(a) Wing Λ, 45°; A, 4.

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



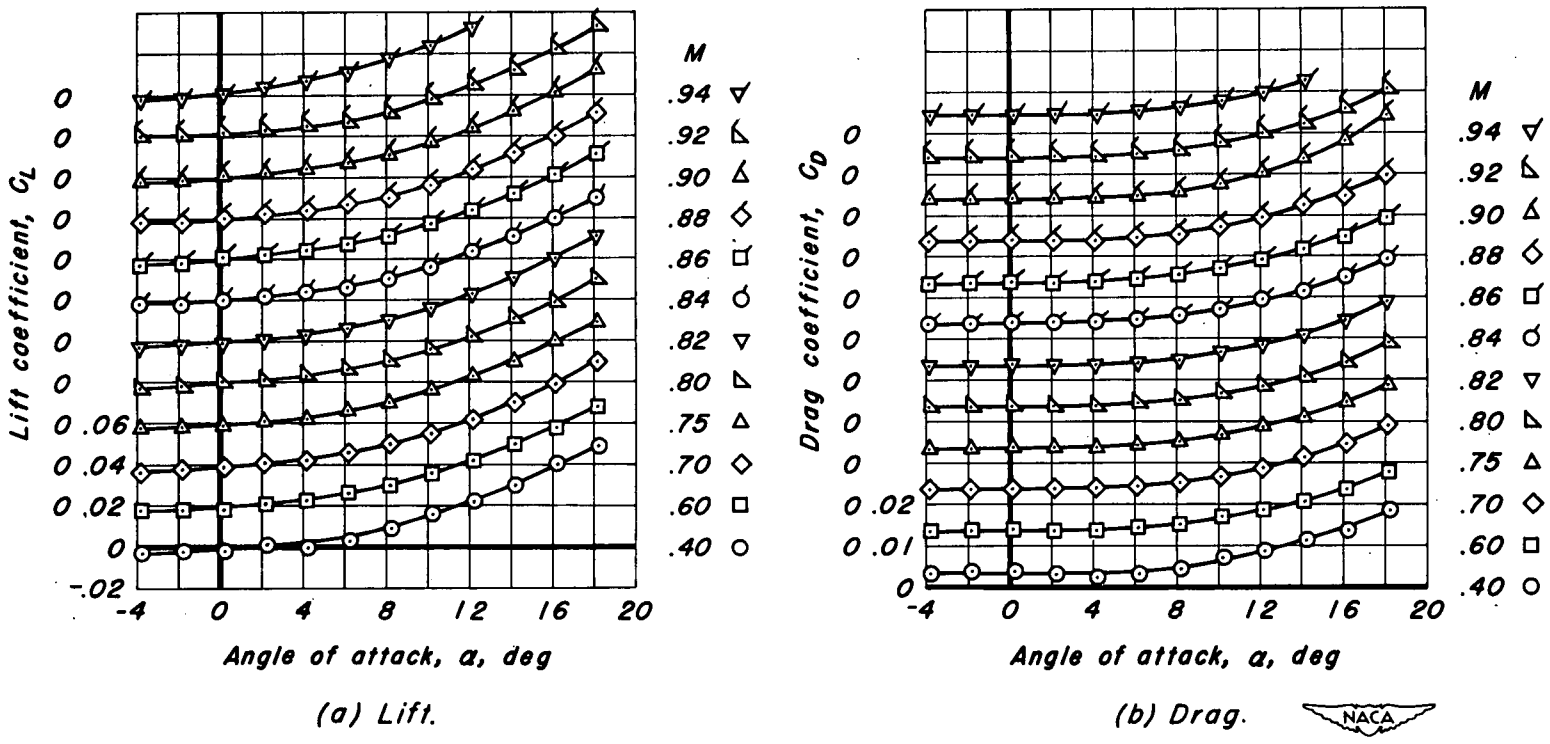
(b) Wing Λ, 35°; A, 6.

Figure 10.–Continued.



(c) Wing Λ, 45°; A, 6.

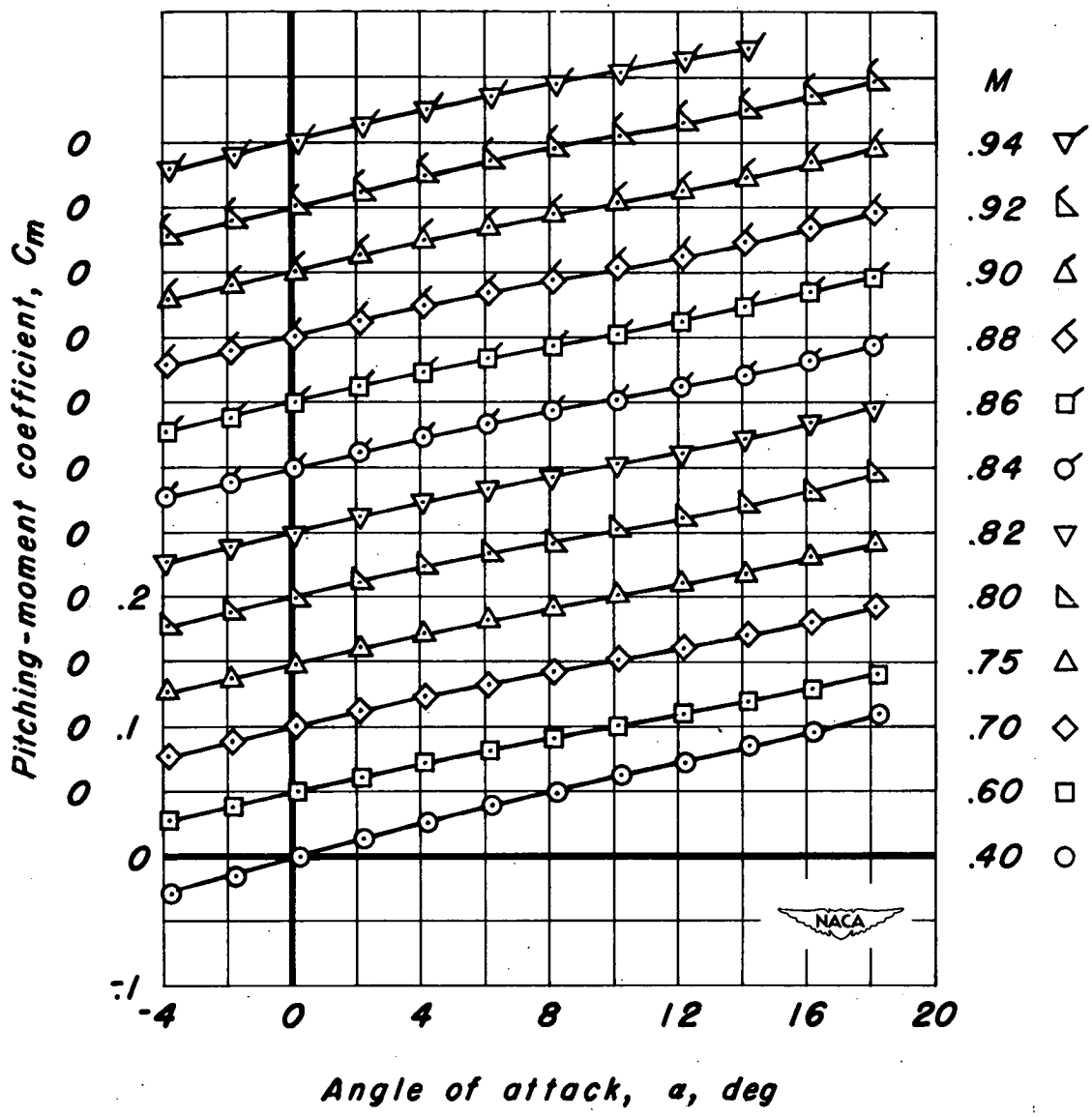
Figure 10.-Concluded.



(a) Lift.

(b) Drag.

Figure 11.—Aerodynamic characteristics of the fuselage.



(c) Pitching moment.

Figure 11.—Concluded.

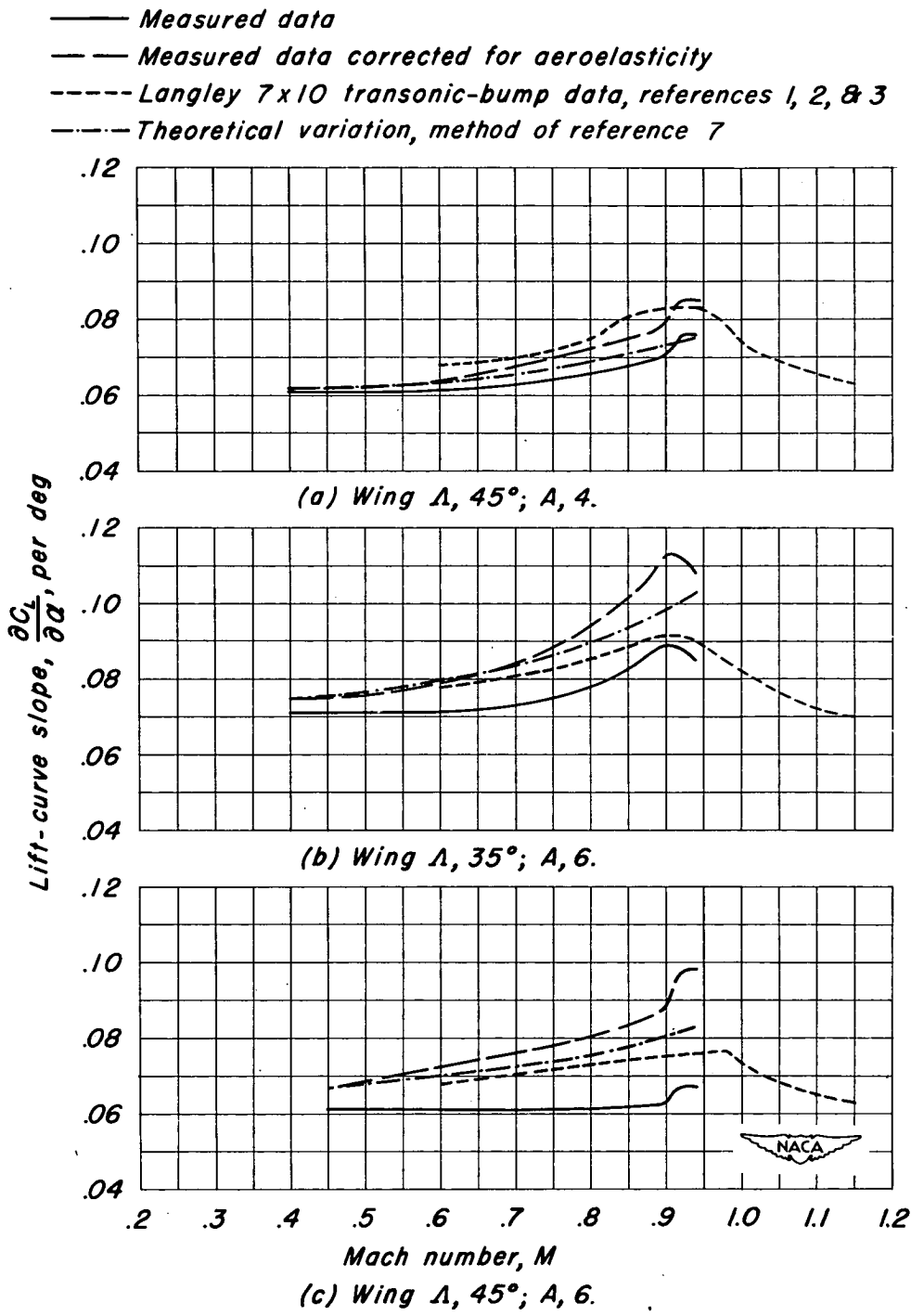


Figure 12.- Effect of Mach number on the lift-curve slopes of the three wing-fuselage combinations. C_L, 0.2.

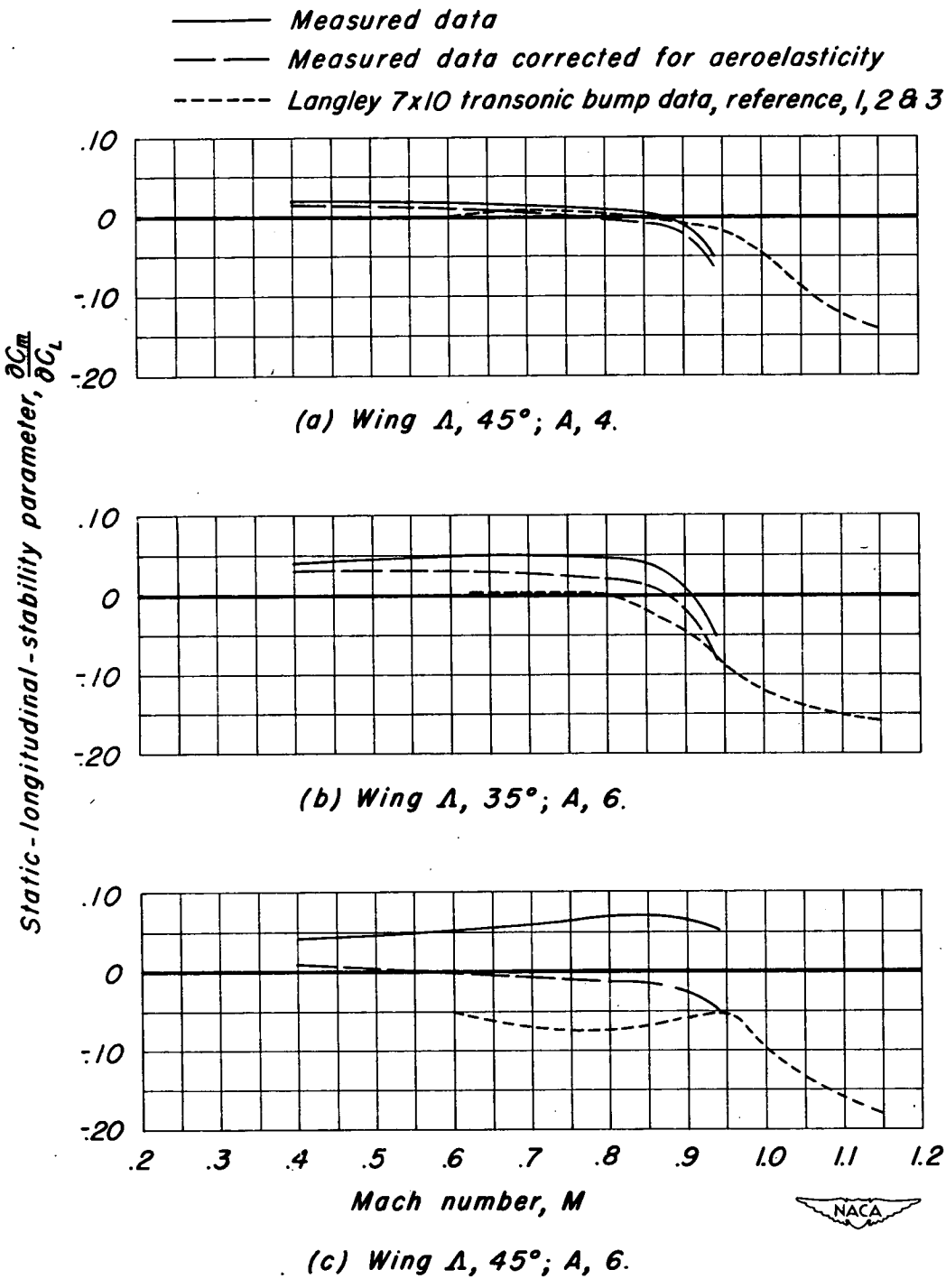
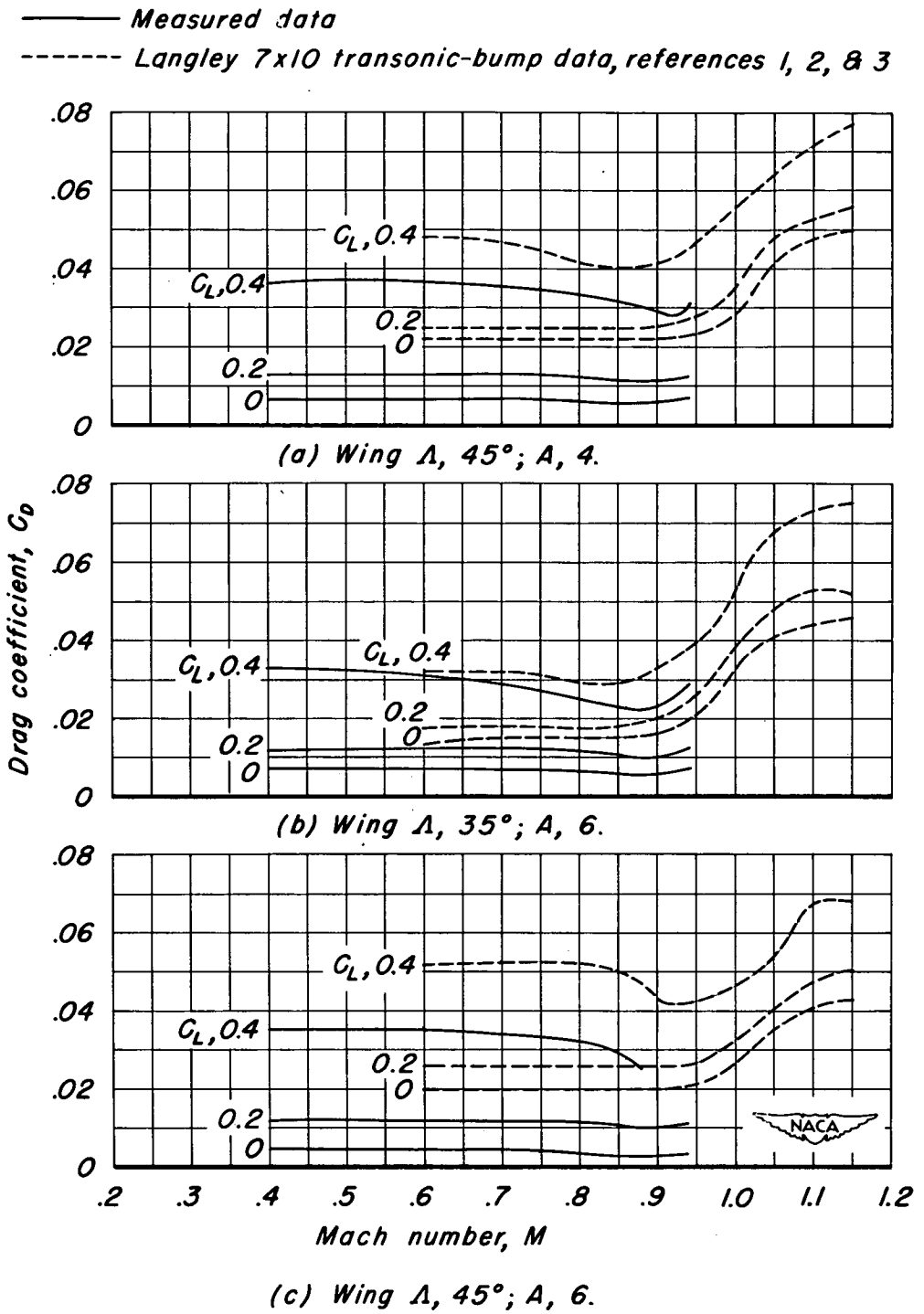
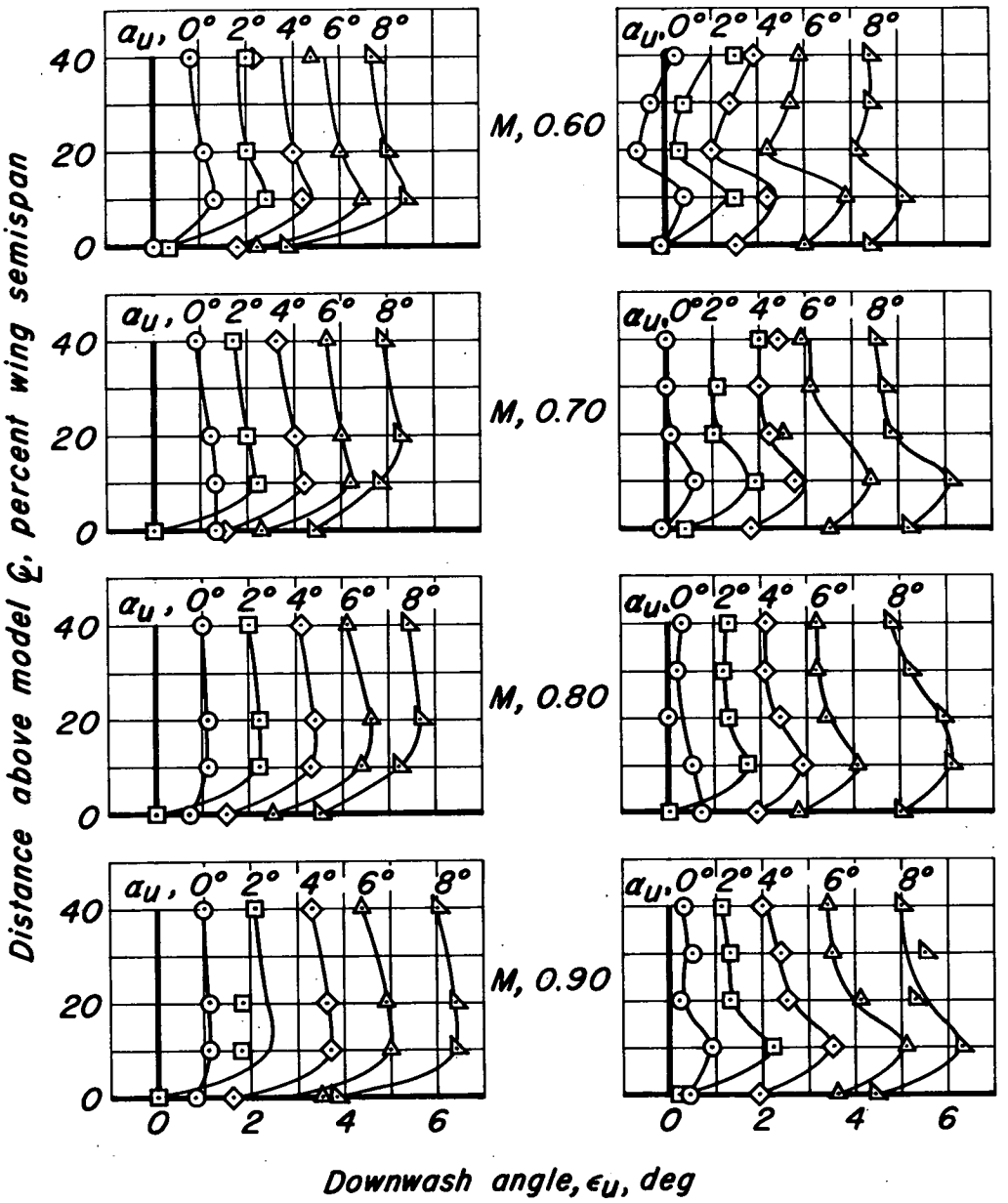


Figure 13.–Effect of Mach number on the stability parameter $\frac{\partial C_m}{\partial C_L}$ of the three wing-fuselage combinations. C_L, 0.2.



(c) Wing Λ, 45°; A, 6.

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

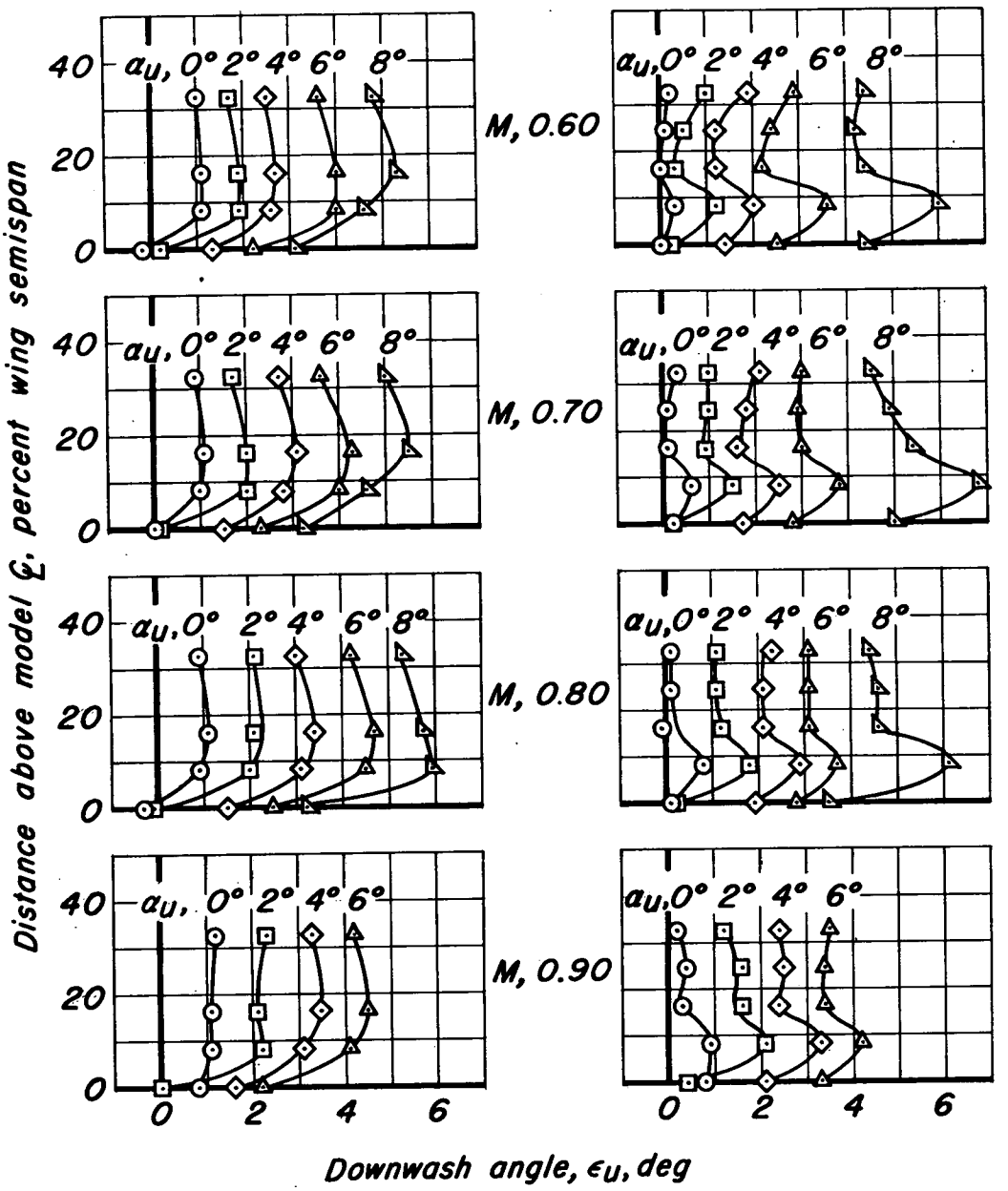


0.200 semispan from plane of symmetry

0.400 semispan from plane of symmetry

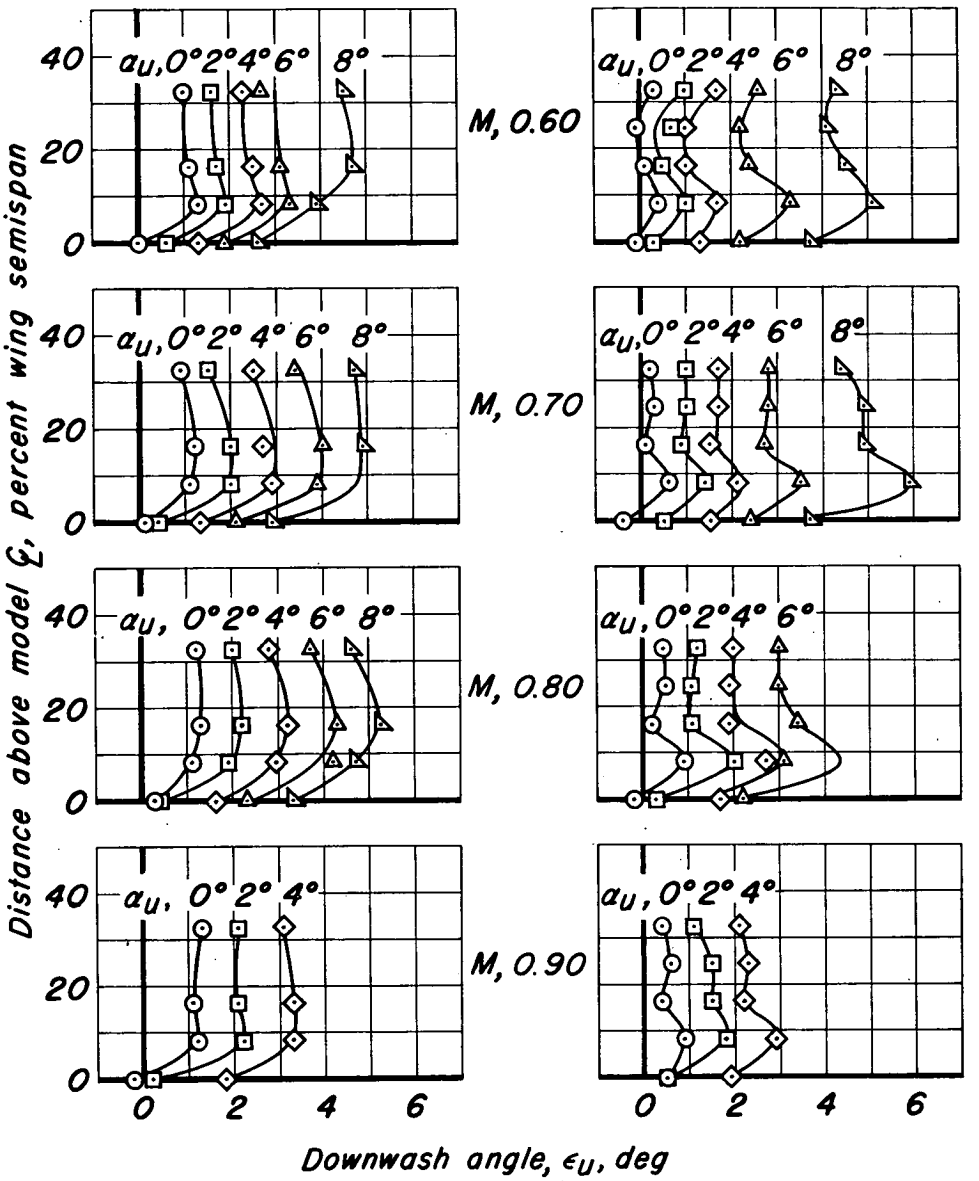
(a) Wing Λ, 45° ; A, 4.

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.

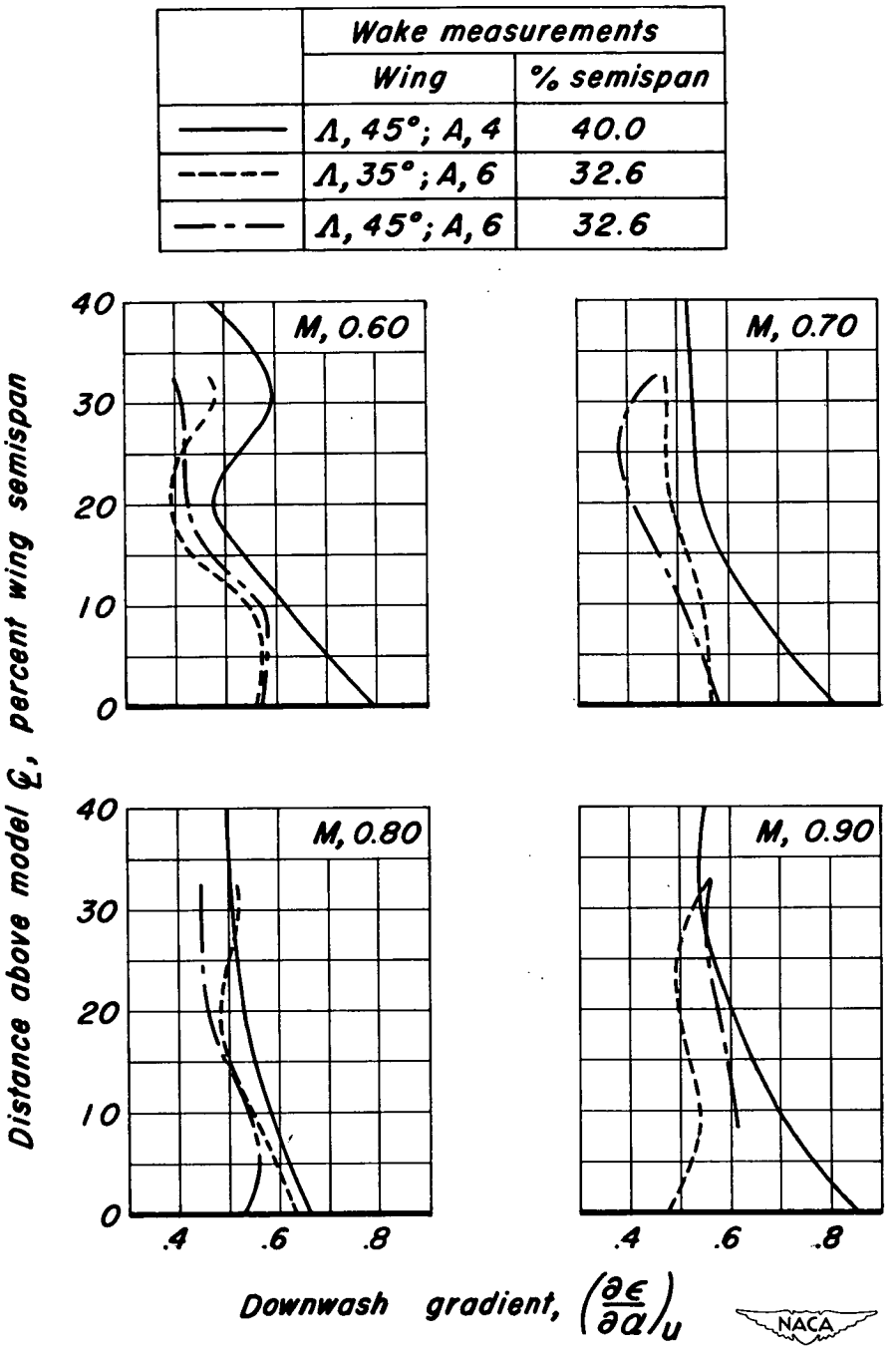
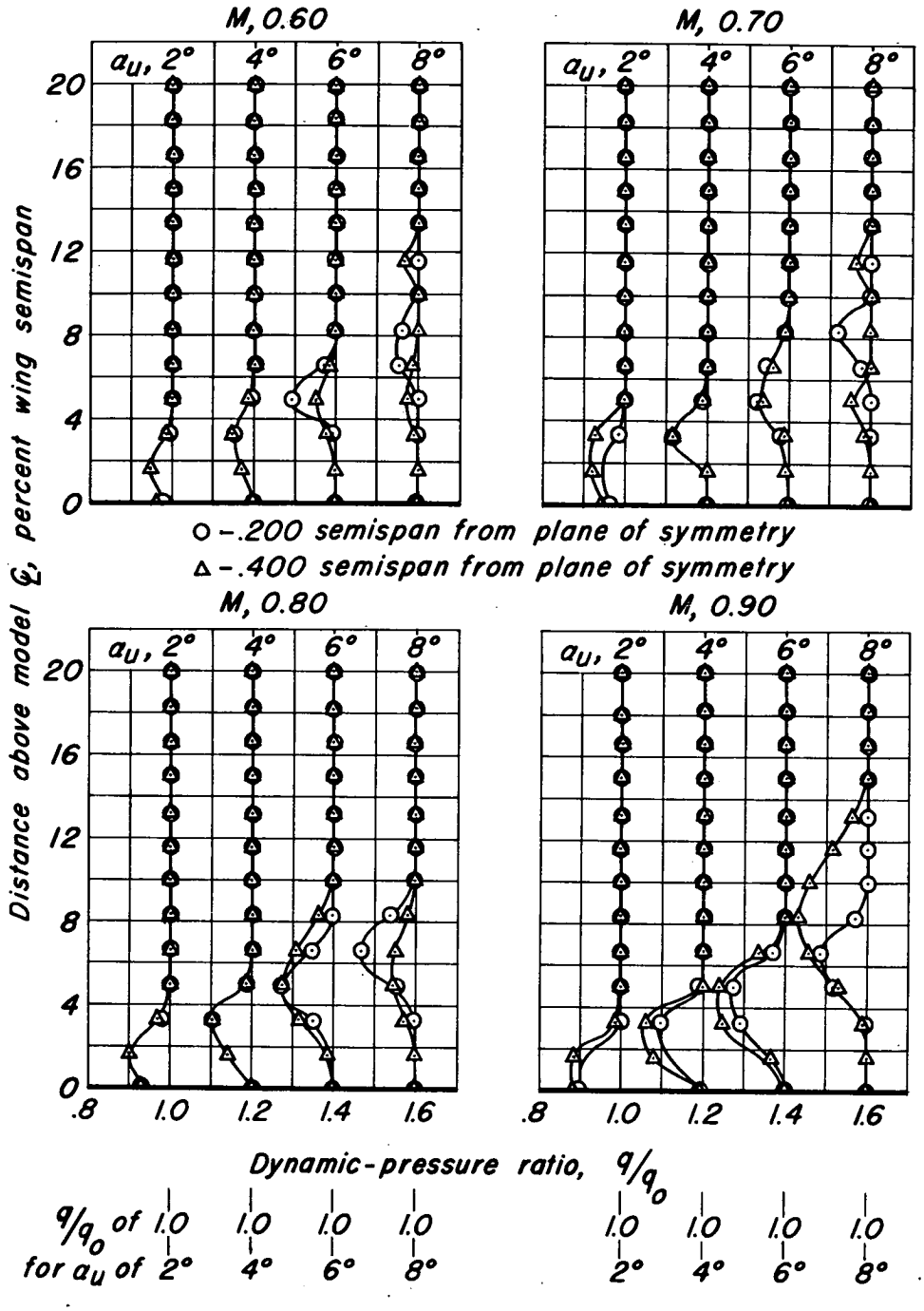
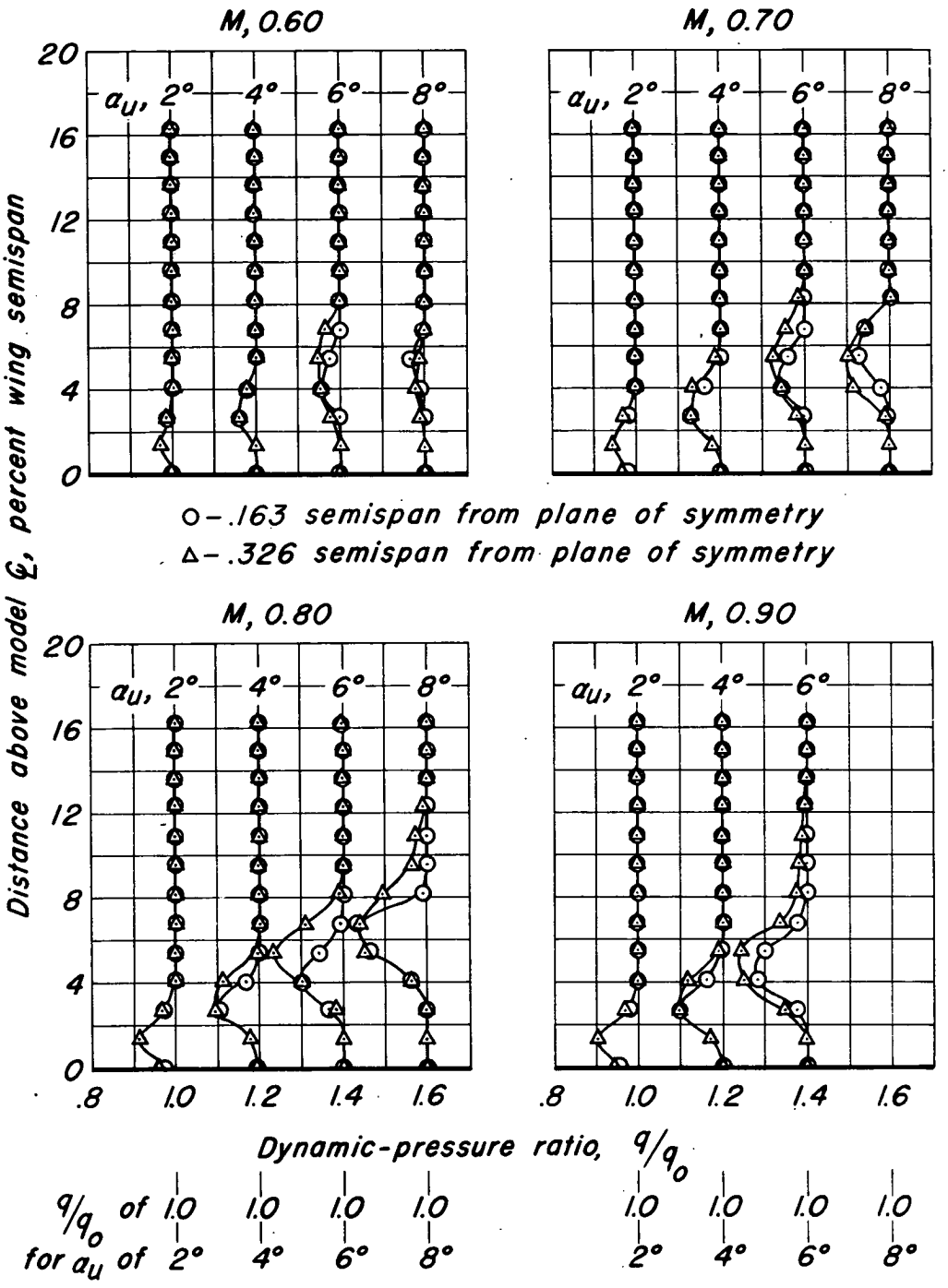


Figure 16.-Downwash gradients for the three wing-fuselage combinations, measured 12 inches from plane of symmetry. C_L, 0.2.



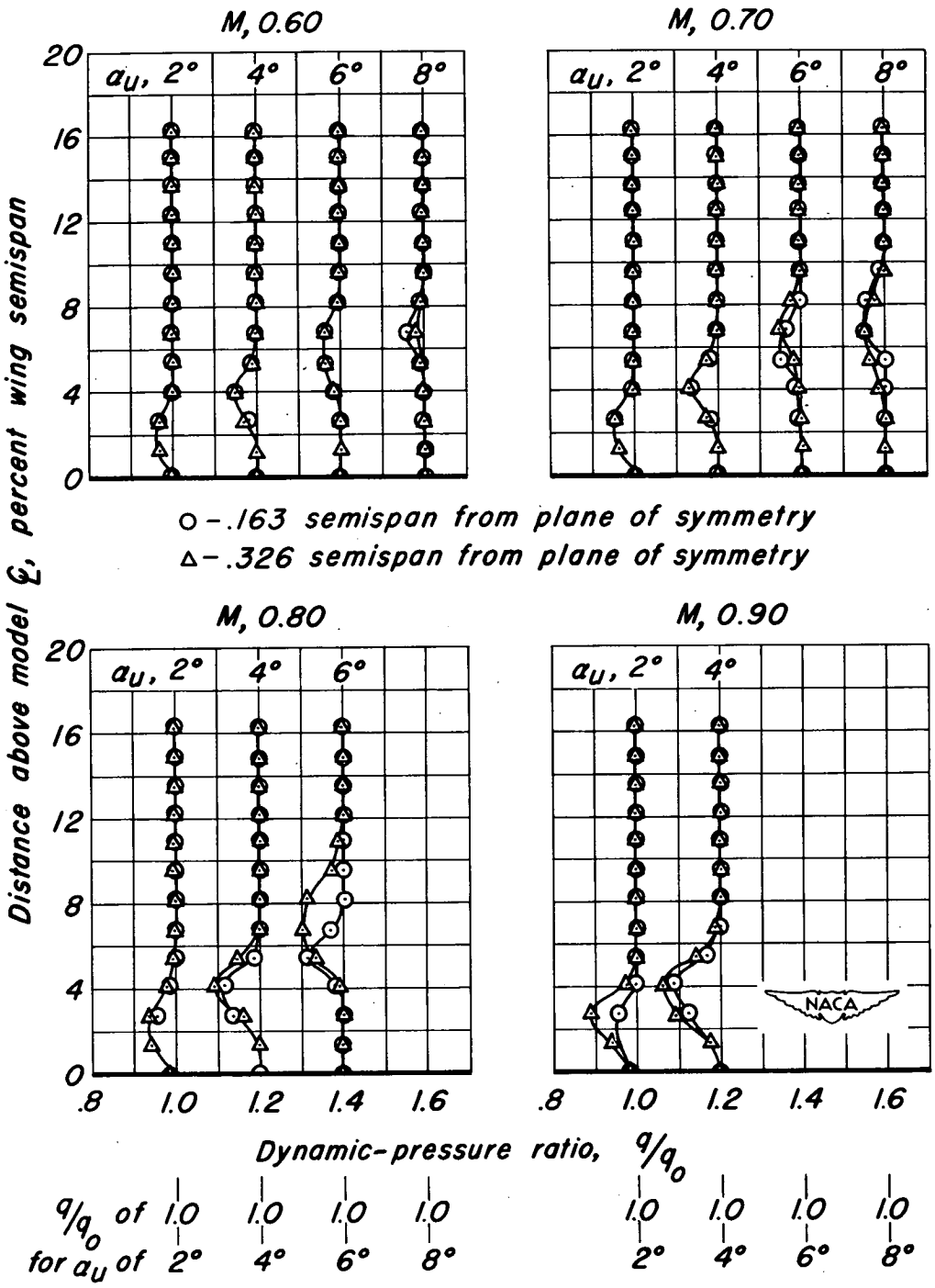
(a) Wing Λ, 45°; A, 4.

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



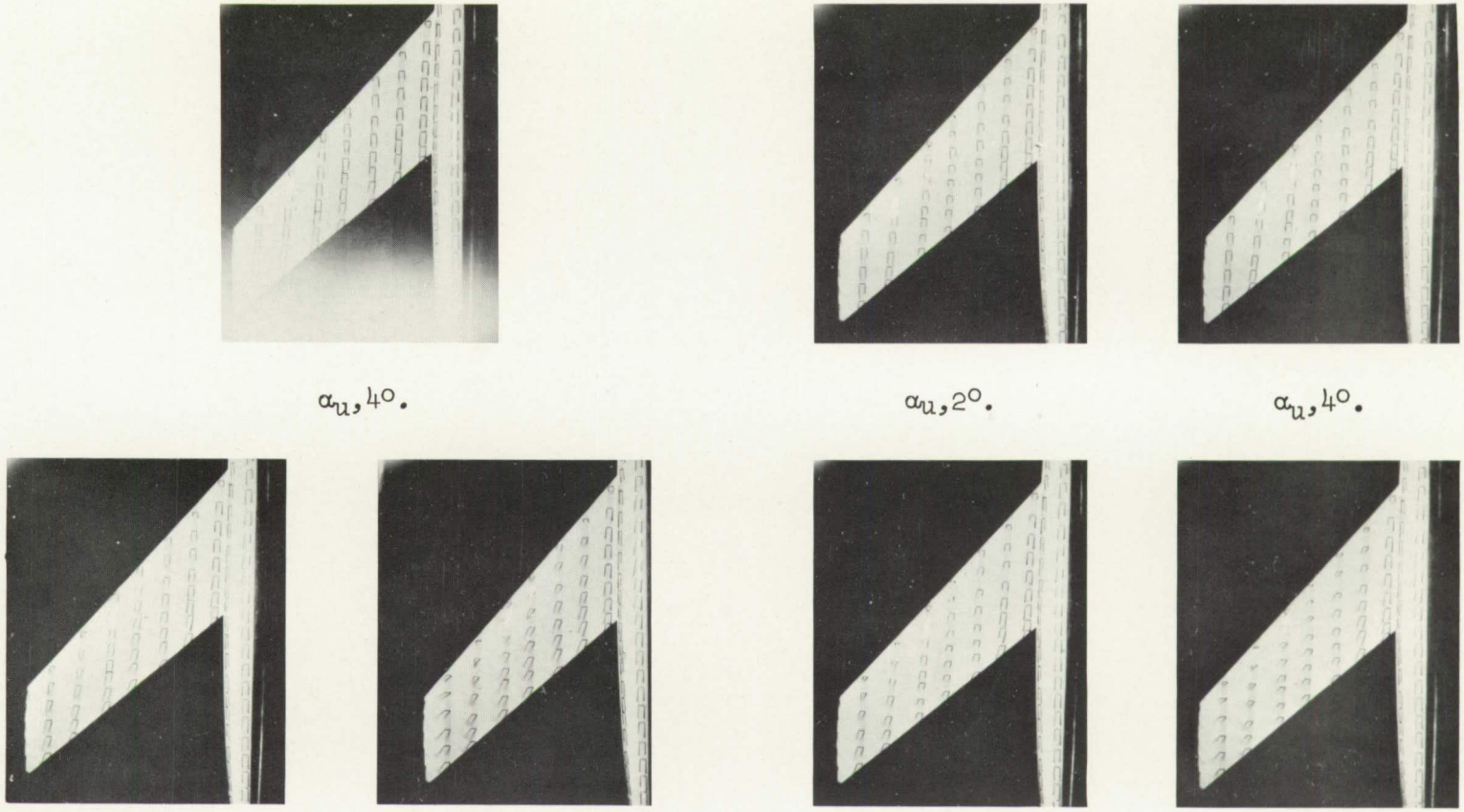
(b) Wing Λ, 35°; A, 6.

Figure 17.–Continued.



(c) Wing Λ, 45°; A, 6.

Figure 17.—Concluded.



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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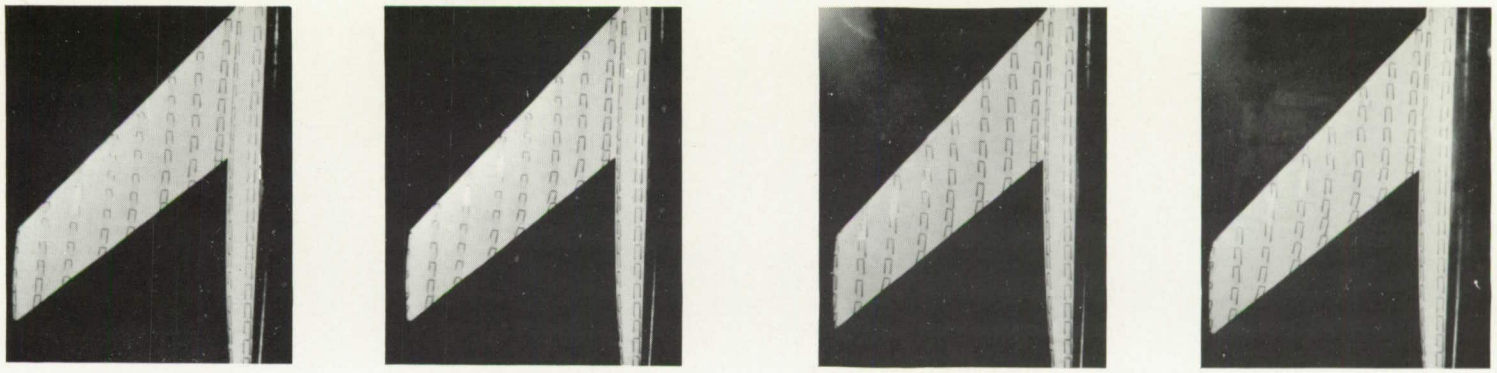
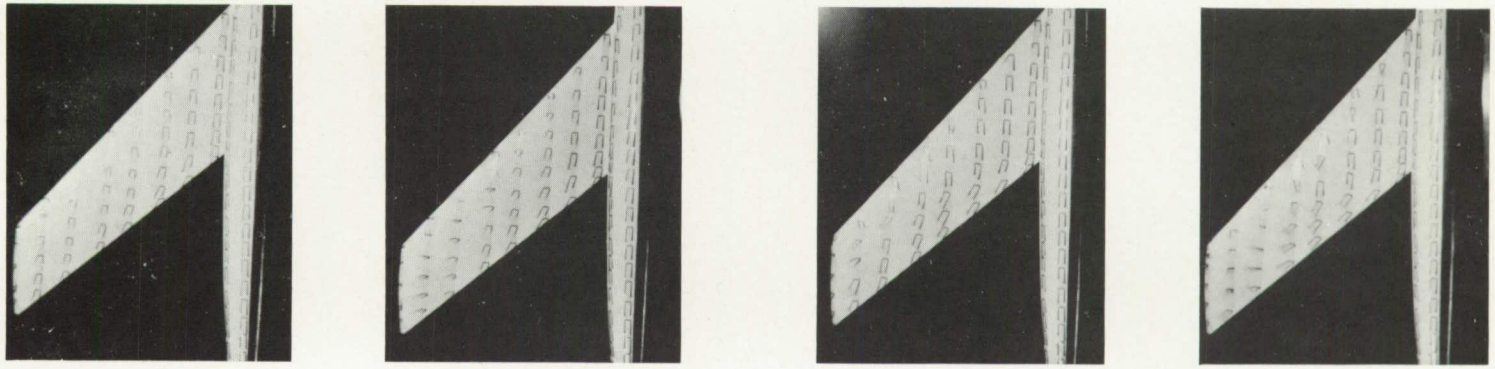


α_u, 2°. α_u, 4°. α_u, 2°. α_u, 4°.



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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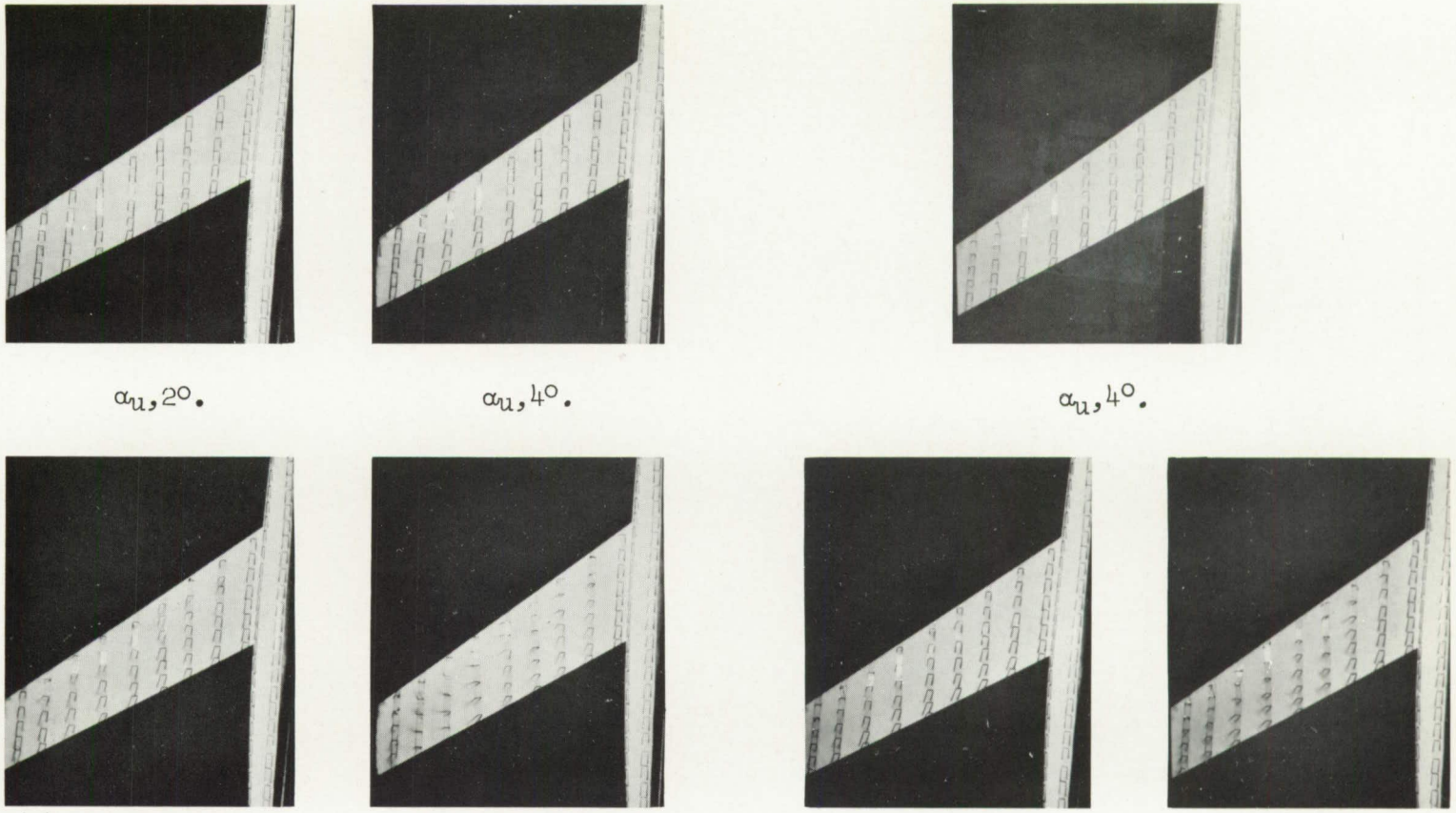

α_u, 2°. α_u, 4°. α_u, 4°.

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 Λ, 35°; A,6.

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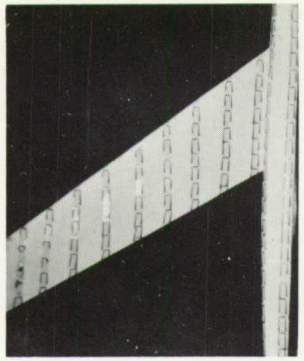
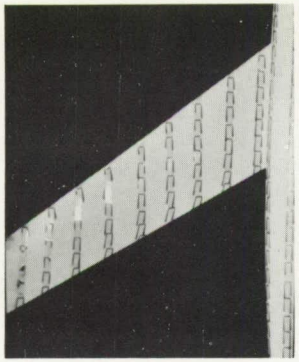
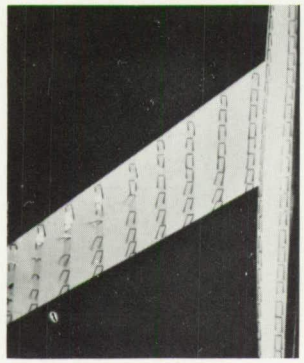


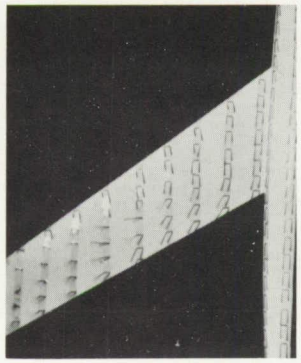
α_u, 2°.



α_u, 4°.

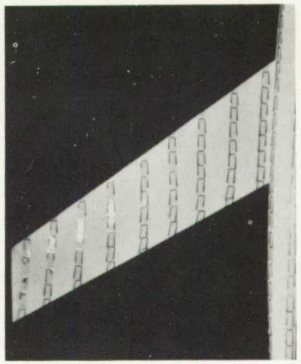


α_u, 6°.

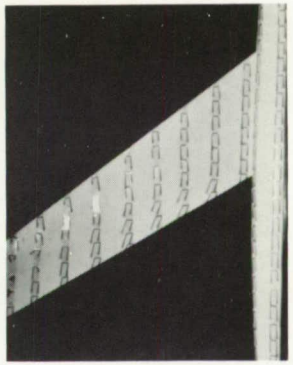


α_u, 7°.

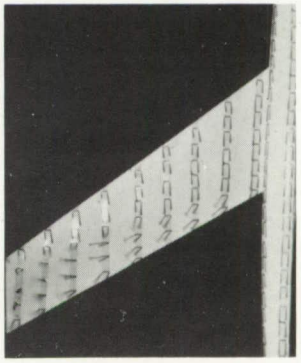
(c) M, 0.86.



α_u, 2°.



α_u, 4°.



α_u, 6°.

(d) M, 0.90.

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Figure 19.- Concluded.

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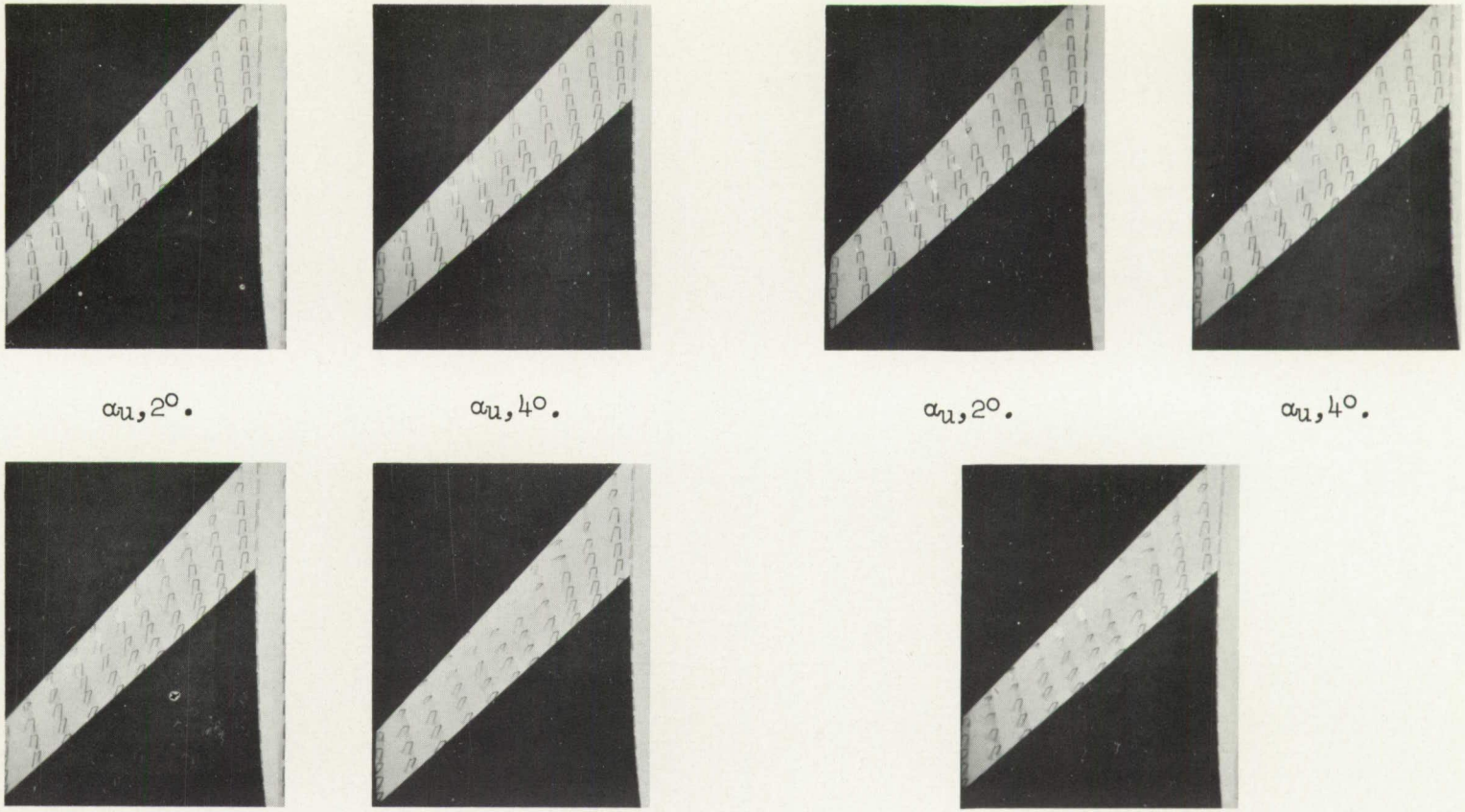

α_u,2°. α_u,4°. α_u,2°. α_u,4°.

α_u,6°. α_u,8°. α_u,8°.

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

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

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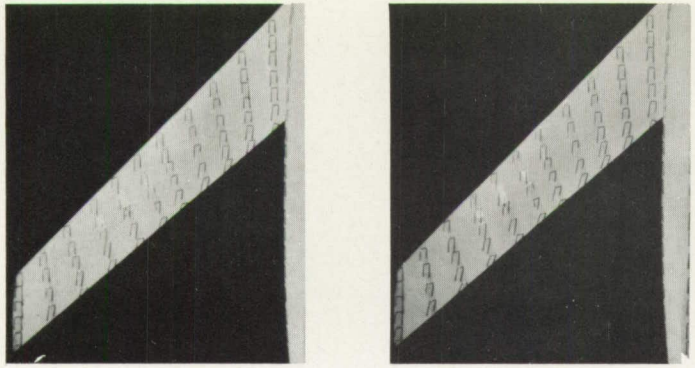
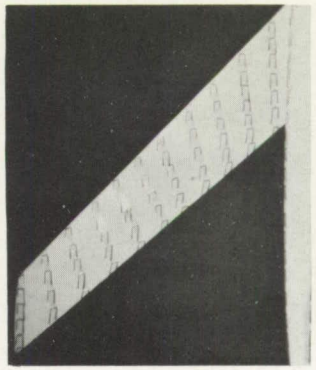
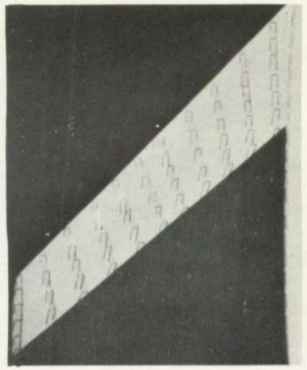


α_u, 2°.

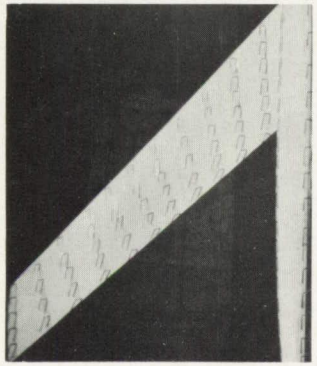
α_u, 4°.



α_u, 2°.

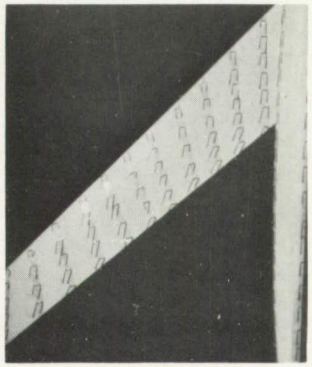


α_u, 4°.



α_u, 6°.

(c) M, 0.86.



α_u, 6°.

(d) M, 0.90.

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Figure 20.- Concluded.

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