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RESEARCH MEMORANDUM

THE FORCES AND PRESSURE DISTRIBUTION AT SUBSONIC SPEEDS ON A CAMBERED AND TWISTED WING HAVING 45° OF SWEEPBACK, AN ASPECT RATIO OF 3, AND A TAPER RATIO OF 0.5

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NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS

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RESEARCH MEMORANDUM

THE FORCES AND PRESSURE DISTRIBUTION AT SUBSONIC SPEEDS ON A CAMBERED AND TWISTED WING HAVING 45° OF SWEEPBACK, AN ASPECT RATIO OF 3, AND A TAPER RATIO OF 0.5

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SUMMARY

An investigation was conducted to determine the effects of scale and compressibility on the forces, moments, and pressure distribution on a cambered and twisted wing having an aspect ratio of 3.0 and a taper ratio of 0.5. The line joining the quarter-chord points of the airfoil sections was swept back 45° and the airfoil sections perpendicular to this line were the NACA 64A410. The wing had 5° of washout between the root and the tip.

Lift, drag, and pitching-moment data and the chordwise distribution of static pressure at seven spanwise stations are presented for Reynolds numbers up to 18,000,000 at a constant Mach number of 0.25; for Reynolds numbers up to 8,000,000 at a constant Mach number of 0.60; and for Mach numbers ranging from 0.08 to 0.96 at a constant Reynolds number of 4,000,000. Force and moment data with surface roughness applied to the wing also are presented for Mach numbers ranging from 0.25 to 0.93 at a Reynolds number of 4,000,000.

In order to determine the effects of camber and twist, the force, moment, and pressure data are compared with the data for an uncambered and untwisted wing of the same plan form. It is shown that the general effect of camber and twist was to delay to higher lift coefficients the onset of flow separation near the leading edge over the outer sections and the concomitant effects on the lift, drag, and pitching moment. The principal result was a substantial increase in the lift-drag ratios at and above the design lift coefficient of the cambered and twisted wing at a Reynolds number of 4,000,000.

The general effect of increasing Reynolds number on the cambered and twisted wing at Mach numbers of 0.25 and 0.60 was to increase slightly the lift coefficient at which sudden increases in lift-curve slope, longitudinal stability, and rate-of-drag rise occurred. At a Mach number of 0.25 the maximum values of section normal-force coefficient for both wings increased approximately the same amount with Reynolds number.

Increasing the Mach number at low lift coefficients resulted in approximately the same increases in lift-curve slope and longitudinal stability for both wings. The Mach numbers for drag divergence were slightly reduced by camber and twist at lift coefficients up to 0.5.

For the cambered and twisted wing, increasing the Mach number at a Reynolds number of 4,000,000 had the effect of producing a more marked reduction in lift-curve slope and longitudinal stability (prior to the onset of leading-edge flow separation) until abrupt changes of slope appeared in the force and moment curves at Mach numbers of 0.88 and above. A consistent correlation was noted between the appearance of the leading-edge pressure peaks at the various sections and the abrupt changes of slope of the section normal-force and section pitching-moment curves. The use of surface roughness along the leading edge was found to be effective in eliminating the abrupt change of slope of the lift, drag, and pitching-moment curves at the higher Mach numbers.

INTRODUCTION

The use of camber and twist as a means of improving the aerodynamic characteristics of swept-back wings with moderately thin airfoil sections has received considerable attention. While some force and pressure data have been obtained showing the effects of camber and twist on the aerodynamic characteristics of swept-back wings at low speeds (e.g., references 1 and 2), the available pressure data at high subsonic Mach numbers are rather limited, particularly for swept-back wings of low aspect ratio.

The results of pressure-distribution and force tests of an uncambered and untwisted wing having the quarter-chord line swept back 45°, an aspect ratio of 3.0, and a taper ratio of 0.5 have been reported in reference 3. The results of similar tests of a cambered and twisted wing having the same plan form are presented herein. Both wings were tested in the Ames 12-foot pressure wind tunnel over wide ranges of Reynolds numbers and subsonic Mach numbers. The complete pressure-distribution data are presented in tabular form. Portions of the data from reference 3 have been included in the present report for purposes of comparison.

NOTATION

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

a_o speed of sound in free stream, feet per second

$\frac{b}{2}$ semispan, measured perpendicular to plane of symmetry, feet

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

C_{D_o} drag coefficient at zero lift $\left(\frac{\text{drag at zero lift}}{q_oS}\right)$

C_{D_t} tare-drag coefficient $\left(\frac{\text{tare drag}}{q_oS}\right)$

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

C_m pitching-moment coefficient about the quarter point of the wing mean aerodynamic chord $\left(\frac{\text{pitching moment}}{q_oS\bar{c}}\right)$

C_N normal-force coefficient $\left(\frac{1}{S}\int_o^{b/2} c_n c\, dy\right)$

c local wing chord parallel to plane of symmetry, feet

c_{av} average wing chord parallel to plane of symmetry, feet

c_l section lift coefficient $\left(\frac{\text{section lift}}{q_oc}\right)$

c_m section pitching-moment coefficient about the quarter chord $[c_n\ (0.25\text{-c.p.})]$

c_n section normal-force coefficient $\left[\frac{1}{c}\int_o^c (P_l-P_u)dx\right]$

$\bar{c}$ wing mean aerodynamic chord $\left(\frac{\int_0^{b/2} c^2 dy}{\int_0^{b/2} c\, dy}\right)$, feet (using theoretical tip chord)

c.p. section center of pressure, fraction of c

$\frac{L}{D}$ ratio of lift to drag

M_o free-stream Mach number $\left(\frac{V_o}{a_o}\right)$

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

P_l pressure coefficient on lower surface

P_u pressure coefficient on upper surface

p local static pressure, pounds per square foot

p_o free-stream static pressure, pounds per square foot

q_o free-stream dynamic pressure $\left(\frac{1}{2}\rho_o V_o^2\right)$, pounds per square foot

R Reynolds number $\left(\frac{\rho_o V_o \bar{c}}{\mu_o}\right)$

S semispan wing area, square feet (using theoretical tip chord)

V_o free-stream velocity, feet per second

x chordwise distance from the leading edge, feet

y lateral distance perpendicular to the plane of symmetry, feet

α angle of attack, degrees

α_u angle of attack uncorrected for tunnel-wall interference and angle-of-attack counter correction, degrees

ϵ angle of twist with respect to root chord (positive for washin), degrees

η fraction of semispan $\left(\frac{y}{b/2}\right)$

μ_o coefficient of viscosity of air, slugs per foot-second

ρ_o free-stream mass density of air, slugs per cubic foot

DESIGN CONSIDERATIONS

The projected plan form, shown in figure 1, and the chordwise thickness distribution of the subject model are the same as those of the plane (uncambered and untwisted) wing of reference 3. The distributions of camber and twist were selected primarily from the standpoint of obtaining improvements in the aerodynamic efficiencies throughout the subsonic speed range.

An analysis of the available high-speed section data for 10-percent-thick NACA 64A-series airfoils (reference 4) indicated that the selection of a section-design lift coefficient of about 0.4 represented a good compromise for obtaining high lift-drag ratios at the higher Mach numbers and high maximum lift at low subsonic speeds without an excessive reduction in the Mach number for drag divergence. As a result of this analysis, the section normal to the quarter-chord line of the sections, which was swept back 45°, was chosen to be the NACA 64A410. In accordance with the concepts of simple sweep theory the wing-design lift coefficient would then be 0.2.

The selection of the spanwise distribution of twist was based upon considerations of simplicity in construction and the desirability of achieving a nearly elliptical distribution of span loading at moderate lift coefficients. The total twist was chosen to be 5° of washout with the distribution of twist one in which straight lines joined constant-percent-chord points of the root and tip chords. A comparison is shown in figure 2 of this distribution of twist with the theoretical distribution of twist for elliptical span loading at a wing lift coefficient of 0.4, as computed by the method of reference 5. In the middle part of this figure it is shown that, at a wing lift coefficient of 0.4, the theoretical span load distribution of the wing twisted for linear elements deviates only slightly from an elliptical loading. The lower part of figure 2 indicates that, at a wing lift coefficient of 1.0, the spanwise distribution of section lift for the wing twisted for linear elements is approximately halfway between that for the plane wing and that for a wing with elliptical loading at a lift coefficient of 1.0. Although the reductions in the section lift coefficients on the outer portion of the wing due to twist are theoretically not large, it was thought that the combination of camber and twist would result in a delay in the tip stall and a significant improvement in the lift-drag ratios.

MODEL AND APPARATUS

The semispan model wing used in this investigation had the leading edge swept back 48.54°, an aspect ratio of 3.0, and a taper ratio of 0.5. These geometric parameters are based upon the plan form projected onto the plane of the leading edge and the root chord line as shown in figure 1. Twist was introduced into the wing by rotating the sections about the leading edge and maintaining a straight trailing edge. The resulting distribution of twist along the semispan with 5° of washout of the tip chord is shown in figure 2. The sections in planes inclined 45° to the plane of symmetry were the NACA 64A410, a = 0.8 (modified as shown in reference 6). The locus of the quarter points of these sections was swept back 45°. The wing was profiled using linear spanwise elements along constant-percent-chord points of the local true chords. Coordinates of the NACA 64A410 section and of the sections parallel to the plane of symmetry are presented in tables I and II, respectively.

The model was constructed of a tin-bismuth alloy bonded to a solid steel spar. Pressure orifices were installed in seven rows parallel to the plane of symmetry as shown in figure 1. The orifices were distributed along the chord on both the upper and lower surfaces from the leading edge to the 95-percent chord point and were staggered one-quarter inch on either side of the station planes. The locations of the orifices along the chord at each station are given with tabulated pressure-coefficient data (tables III through XXII).

The model is shown mounted in the wind-tunnel test section in figure 3(a) with the test-section floor serving as a reflection plane. The turntable upon which the model was mounted was connected to the balance system. Pressures were measured by means of multiple-tube manometers and were recorded photographically.

In order to determine the onset and extent of supersonic flow along the tunnel wall opposite the upper surface of the model, the pressures were measured at 26 flush orifices in the wind-tunnel test section. The location of these orifices with respect to the model is shown in reference 3.

The model was tested with surface roughness as well as with a smooth surface. Three configurations of roughness created by a light sprinkling of number 60 grain carborundum onto a bonding agent were investigated. The density of particles in all configurations was similar to that shown in figure 3(b). Two of the configurations had roughness around the leading edge from 5 percent of the chord on the lower surface to 4 percent of the chord on the upper surface. In one case the roughness extended along the entire leading edge, while in the other the

roughness extended along only the outer 60 percent of the semispan. The third configuration had a 1-inch-wide roughness strip on the upper surface only, with the forward edge at 10 percent of the chord, and extending over the outer 60 percent of the semispan.

TESTS

The chordwise distributions of pressure at seven spanwise stations on the wing were measured simultaneously with the total lift, drag, and pitching moment at Reynolds numbers of 4,000,000, 6,000,000, 8,000,000, 12,000,000, and 18,000,000 for a Mach number of 0.25. Similar measurements were made at Reynolds numbers of 4,000,000, 6,000,000, and 8,000,000 for a Mach number of 0.60 and at a Reynolds number of 4,000,000 for Mach numbers from 0.08 to 0.96. The angle-of-attack range was varied from -4° to 30° during the low-speed tests, but this range was reduced at the higher Mach numbers where wind-tunnel power limitations prevented testing at the higher angles of attack. At a Reynolds number of 18,000,000, the capacity of the manometers limited the measurements to an angle of attack of 16°.

To determine the influence of surface roughness, lift, drag, and pitching-moment data were obtained with roughness applied separately at three different areas on the wing for Mach numbers from 0.25 to 0.92 at a Reynolds number of 4,000,000. Data were also obtained for one configuration of surface roughness at a Mach number of 0.93.

CORRECTIONS TO DATA

Corrections to the data for tunnel-wall interference resulting from lift on the model were evaluated by the method of reference 7 using the theoretical span loading derived from the charts of reference 5. The following increments were added to the angle of attack and drag coefficient:

$$\Delta\alpha = 0.597\ C_L$$

$$\Delta C_D = 0.0087\ C_L^2$$

No corrections were applied to the pitching-moment data.

The pressure coefficients and the section coefficients derived therefrom are presented in this report for values of uncorrected angle

of attack α_u. The relation between the corrected and uncorrected angles of attack is as follows:

$$\alpha = 0.99\ \alpha_u + \Delta\alpha$$

The constant 0.99 is the ratio between the geometric angle of attack and the uncorrected reading of the angle-of-attack counter.

Corrections for the effects of constriction were evaluated by the method of reference 8. This method, while not accounting for sweepback and being strictly applicable only to full-span models centrally located in the tunnel, has been used as the best available estimate of the constriction effects. The magnitude of the corrections applied to the free-stream Mach number and to the dynamic pressure is illustrated in the following table:

Corrected Mach number	Uncorrected Mach number	$\frac{\text{Corrected } q_o}{\text{Uncorrected } q_o}$
0.08	0.080	1.001
.25	.250	1.002
.60	.599	1.003
.80	.797	1.005
.90	.891	1.010
.92	.909	1.012
.94	.925	1.016
.96	.940	1.021

The following corrections were subtracted from the drag coefficients to compensate for the forces on the exposed surface of the turntable:

$R \times 10^{-6}$	M_o	C_{D_t}
4.0	0.08	0.0030
↓	.25	.0030
	.60	.0030
	.80	.0034
	.90	.0040
	.92	.0042
	.94	.0044
	.96	.0047
6.0	.25	.0032
8.0	.08	.0028
↓	.25	.0031
	.60	.0031
12.0	.25	.0030
18.0	.25	.0030

No attempt was made to evaluate the additional tares due to possible interference between the model and the turntable or to compensate for the tunnel-floor boundary layer which, at the model, had a displacement thickness of one-half inch. The magnitude of these effects is believed to be small.

As in the case of the plane wing, it was assumed that the effects of aeroelasticity on the aerodynamic characteristics of the model were negligible due to its high degree of structural rigidity.

RESULTS AND DISCUSSION

Inasmuch as the aerodynamic characteristics of the plane wing have been reported in reference 3, the present report is concerned primarily with an analysis of the data for the cambered and twisted wing. In order to evaluate the effects of camber and twist, however, portions of the force, moment, and pressure data for the plane wing (as reported in reference 3) have been included in many of the figures. The results are discussed separately with regard to the effects of Reynolds number, Mach number, and surface roughness.

The surface pressures on the model, measured for almost the complete range of Mach numbers at selected angles of attack, are presented as pressure coefficients in tabular form. Table III is an index to these data which are presented in tables IV through XXII. A representative portion of the pressure-distribution data has been presented graphically in the figures of this report to facilitate the analysis of the force and moment characteristics of the cambered and twisted wing.

Effects of Reynolds Number at Mach Numbers of 0.25 and 0.60

Force and moment characteristics.- The lift, drag, and pitching-moment characteristics of the cambered and twisted wing and of the plane wing are presented in figures 4 and 5 for various Reynolds numbers at constant Mach numbers of 0.25 and 0.60. The lift-drag ratios of the cambered and twisted wing are shown in comparison with those of the plane wing at Mach numbers of 0.25 and 0.60 in figure 6. The variations with the lift coefficient squared of the drag due to lift for both wings at these Mach numbers and of the theoretical induced drag coefficient for a wing of aspect ratio 3.0 are presented in figure 7.

From figures 4 and 5 it is seen that at Mach numbers of 0.25 and 0.60 the effects of Reynolds number on the cambered and twisted wing were similar to, although somewhat less than, those on the plane wing. The

general effect of increasing Reynolds number was to increase slightly the lift coefficient at which the sudden increase in lift-curve slope, longitudinal stability, and rate of drag rise occurred. The effect of camber and twist in delaying to higher lift coefficients the sudden changes in slope of the lift, drag, and pitching-moment curves was similar to the effect of increasing Reynolds number but of considerably greater magnitude.

The lift-drag ratios shown in figure 6 indicate that the use of camber and twist resulted in a substantial increase in the maximum lift-drag ratio at Reynolds numbers of 4,000,000 and 6,000,000. However, the maximum lift-drag ratio of the cambered and twisted wing was reduced by increasing the Reynolds number above 6,000,000 in contrast to the trend shown for the plane wing. For both wings, the maximum lift-drag ratio occurred at about the design lift coefficient of the cambered and twisted wing. Although the maximum lift-drag ratios of the cambered and twisted wing were lower than those of the plane wing at Reynolds numbers of 12,000,000 and 18,000,000 for a Mach number of 0.25, the lift-drag ratios at lift coefficients above about 0.4 were higher.

The drag-due-to-lift data of figure 7 indicate that, at Mach numbers of 0.25 and 0.60, the use of camber and twist resulted in a considerable increase in the lift coefficient at which the drag rise indicative of flow separation first occurred on the wing.

Pressure distribution and section characteristics.- The chordwise pressure distributions, which may be obtained from the tabulated pressure data in the present report and in reference 3, indicate a similarity in the type of flow separation over the cambered and twisted wing and over the plane wing. The increase in lift-curve slope and longitudinal stability for both wings resulted from separation and reattachment of the flow near the leading edge of the outer sections. However, the effect of camber and twist was to increase considerably the lift coefficients at which leading-edge flow separation was initiated at the outer sections and to reduce the range of lift coefficients in which this separation spread to the inner sections. The effect of increasing Reynolds number was to delay to higher lift coefficients the onset of leading-edge flow separation for both wings. As an illustration of this effect, the chordwise pressure distributions at three spanwise stations of the cambered and twisted wing are presented for Reynolds numbers of 4,000,000 and 12,000,000 in figure 8. A similar effect of Reynolds number was noted for the plane wing in reference 3. Although there is some indication from the pressure data that vortex flow (as described in reference 9) existed on the plane wing, there is less evidence of this type of flow in the pressure data for the cambered and twisted wing.

The section normal-force and section pitching-moment characteristics at seven spanwise stations of the cambered and twisted wing are presented

in figures 9 and 10 for Reynolds numbers of 4,000,000 and 12,000,000 at a Mach number of 0.25, and for Reynolds numbers of 4,000,000 and 8,000,000 at a Mach number of 0.60. A comparison of these data with the corresponding data for the plane wing reveals a marked similarity in the section normal-force curves of the two wings as well as in the effects of increasing Reynolds number thereon. At a Reynolds number of 4,000,000 and a Mach number of 0.25, the maximum values of section normal-force coefficient at the outer spanwise stations of the cambered and twisted wing were only about 0.05 higher than at corresponding stations on the plane wing. Moreover, the increase in the maximum section normal-force coefficients with increasing Reynolds number was approximately the same for both wings.

The section pitching-moment data of figures 9(b) and 10(b) indicate that, for most sections of the cambered and twisted wing, a large rearward movement of the section center of pressure followed the increase in section normal-force-curve slope. The same effect can be found in the center-of-pressure data for the plane wing in reference 3.

In figure 11, the experimental values of span loading coefficient $c_n c/C_N c_{av}$ at seven spanwise stations of the cambered and twisted wing are shown in comparison with the theoretical distributions of loading coefficient for wing lift coefficients of 0.20, 0.45, and 0.74. Experimental data are presented for Reynolds numbers of 4,000,000, 12,000,000, and 18,000,000 at a Mach number of 0.25. The agreement between the experimental and theoretical distributions of loading is seen to be good at the three lift coefficients.

Effects of Mach Number at a Reynolds Number of 4,000,000

Force and moment characteristics.- The aerodynamic characteristics of the cambered and twisted wing and of the plane wing at Mach numbers ranging from 0.08 to 0.96 for a constant Reynolds number of 4,000,000 are presented in figure 12. The dotted portions of the curves in this and the following figures indicate data which may have been affected by wind-tunnel choking. An explanation of the criterions used in determining the limits of the unaffected data is given in reference 3. The variations with Mach number of the lift coefficients at constant angle of attack and of the pitching-moment and drag coefficients at constant values of lift coefficient are shown in figures 13 and 14. The effects of compressibility on the lift-curve slope and the location of the aerodynamic center at zero lift are shown in figures 15 and 16, respectively. In figure 17, the lift-drag ratios are summarized for both the cambered and twisted and plane wings.

It may be seen from the data of figures 12(a) and 15 that, throughout the entire range of Mach numbers, cambering and twisting the wing had little effect on the slope of the lift curves at lift coefficients up to about 0.4. Also, as indicated in figures 12(b) and 16, there was little change in the location of the aerodynamic center, as determined by the slopes of the pitching-moment curves at low values of lift coefficient, due to cambering and twisting the wing. However, at higher values of lift coefficient the deviations of the lift and pitching-moment curves of the cambered and twisted wing from nearly linear variations were, in general, opposite to those of the plane wing. Whereas the lift-curve slope of the plane wing increased and the center of pressure moved rearward at lift coefficients between approximately 0.3 and 0.6, the lift-curve slope of the cambered and twisted wing decreased and the center of pressure moved forward. Moreover, the severity of these changes in lift-curve slope and center-of-pressure location of the cambered and twisted wing increased with increasing Mach number until, at a Mach number of 0.88, increasing the angle of attack from 7° to 8° resulted in only a small change in lift but caused an abrupt forward movement of the center of pressure. The angles of attack at which these changes occurred may be seen to have increased slightly with Mach number. It will be shown later in the report that these initial deviations of the lift and pitching-moment curves of the cambered and twisted wing from nearly linear variations were not the result of partial separation of the flow over the outer sections, as in the case of the plane wing, but were probably the result of a change in the boundary-layer characteristics associated with the development of an adverse pressure gradient at the leading edge.

Following the initial reduction in the lift-curve slope and the forward movement of the center of pressure of the cambered and twisted wing, there was an increase in the lift-curve slope and longitudinal stability. This increase in lift-curve slope and longitudinal stability apparently resulted from flow changes similar to those which caused the initial increase in lift-curve slope and longitudinal stability of the plane wing, namely, partial separation of the flow with reattachment over the outer sections. However, the lift coefficients at which these changes in the slopes of the lift and pitching-moment curves occurred were from 0.3 to 0.4 higher for the cambered and twisted wing than for the plane wing. For both wings, the reduction in lift-curve slope and longitudinal stability prior to the attainment of maximum lift was the result of the flow separating completely over the outer sections.

The effect on the drag of the delay in flow separation resulting from the use of camber and twist is shown in figures 12(c) and 14. From figure 14 it can be seen that, for lift coefficients of approximately 0.2 and higher, the drag of the cambered and twisted wing, up to and slightly beyond the Mach number for drag divergence,[1] was less than that of the

[1]Drag divergence is defined as the point at which $(\partial C_D/\partial M_o)_{C_L} = 0.10$.

plane wing even though the Mach numbers for drag divergence were slightly reduced by camber and twist. For lift coefficients from 0.2 to 0.5 the drag coefficient of the cambered and twisted wing generally decreased with increasing Mach number up to the Mach number at which the abrupt drag rise began while the drag coefficient of the plane wing generally increased.

In figure 17, it may be seen that for Mach numbers from 0.25 to 0.90 the lift-drag ratios of the cambered and twisted wing were considerably higher than those of the plane wing for lift coefficients above about 0.1. In this range of Mach numbers the maximum lift-drag ratio was increased from 16 to 36 percent through the use of camber and twist. At Mach numbers of 0.92 and above, the maximum lift-drag ratio of the cambered and twisted wing was reduced to almost that of the plane wing.

Pressure distribution and section characteristics.- The remaining discussion is largely given to an explanation of the sudden changes in lift-curve slope and longitudinal stability of the cambered and twisted wing. However, a comparison is first made of several isobar diagrams for both wings in order to illustrate the changes in pressure distribution that resulted from cambering and twisting the plane wing.

In figure 18, isobar diagrams are presented for the upper surface of the cambered and twisted wing and the plane wing at angles of attack of 3° and 4°, respectively. At these angles of attack the corresponding lift coefficients for the two wings are approximately equal, and increase from about 0.20 at a Mach number of 0.25 to about 0.28 at a Mach number of 0.92. The most apparent effect of camber and twist at these lift coefficients is the elimination of peak pressures at the leading edge. As a consequence, the locus of the minimum pressure points moved considerably rearward. At a Mach number of 0.92 the probable location of the shock wave (indicated by the highly positive pressure gradient) was more rearward in the case of the cambered and twisted wing than for the plane wing.

As a means of explaining the sudden changes in lift-curve slope and longitudinal stability of the cambered and twisted wing, the section normal-force and pitching-moment characteristics are presented in figures 19 through 22 for Mach numbers of 0.80, 0.86, 0.90, and 0.92. Consider, for example, the section data of figure 21 obtained at a Mach number of 0.90 for which data are presented up to an angle of attack of 10°. From figures 12(a) and 12(b) it is seen that the abrupt changes in the slopes of the lift and pitching-moment curves occur between angles of attack of 7° and 8°. In figure 21(a), it can be seen that up to an angle of attack of 7° only the two outermost sections had sustained a significant loss in normal-force-curve slope. The section pitching-moment curves of figure 21(b) indicate that up to this angle of attack only the section at 0.924 b/2 exhibited a sudden forward movement of

the section center of pressure. However, as the angle of attack was increased to 8°, the three outermost sections showed a loss in normal force and an abrupt forward movement of the center of pressure. The magnitude of the reductions in normal-force-curve slope and of the forward movements of the centers of pressure diminished at sections toward the root. Further increase in the angle of attack to 10° then resulted in an increase in the section normal-force-curve slopes for all sections and either a rearward movement of the section centers of pressure or a reduction in the rate of forward movement with the greatest changes occurring at the outer section.

In order to illustrate the changes in the pressure distribution accompanying the abrupt reductions in lift-curve slope and longitudinal stability, the chordwise distributions of pressure are shown in figure 23 for the angle-of-attack ranges covering the abrupt changes in slope of the curves. An examination of these pressure distributions together with the section data of figures 10 and 19 through 22 reveals a consistent correlation between the appearance of leading-edge pressure peaks at the various sections and the reductions in slope of the section normal-force curves. This correlation probably is related to the experimental result reported in reference 10 that some NACA 6-series cambered airfoils exhibit a reduction in lift-curve slope at the end of the low-drag range.

The pressure distributions presented in figure 23 reveal that, at Mach numbers of 0.60 and 0.80, no pronounced changes in the flow pattern occurred with the formation of the leading-edge pressure peaks. At Mach numbers of 0.86, 0.90, and 0.92, the pressure distributions indicate that a shock wave existed on the upper surface. The position of the shock wave is indicated to have moved forward suddenly with the development of large adverse pressure gradients near the leading edge. It may be observed that this forward movement diminished toward the root and was accompanied, generally, by an increase in the flow separation at the trailing edge.

The sudden changes in the shock-wave position are probably associated with the abrupt forward movement of the point of transition from laminar to turbulent flow in the boundary layer. In reference 11 it was reported that the chordwise location of a shock wave moved considerably forward when the point of transition was artificially positioned at the leading edge with roughness. If the point of transition from laminar to turbulent flow were naturally shifted far forward through the action of an adverse pressure gradient, the same resultant effect on the position of the shock wave could be expected. This was apparently the case in the present investigation.

Further credence to this explanation of the boundary-layer shock-wave interaction can be obtained from a consideration of the types of

pressure recovery shown in the pressure distributions of figure 23. It has been shown in reference 12 that marked differences in the shock-wave pattern and in the pressure distribution in the region of the shock wave exist between the cases of laminar flow and turbulent flow in the boundary layer immediately ahead of the shock wave. From figure 23, it may be noted that the pressure recovery at the outer four stations before the forward movement of the shock wave occurred was gradual at first and then more abrupt. This type of pressure recovery is generally associated with a laminar boundary layer ahead of the shock wave as is stated in reference 12. At the more forward position of the shock the pressure recovery took place more abruptly without a gradual initial compression and was similar to that associated with a turbulent boundary layer ahead of the shock wave.

The reduction in the forward movement of the shock wave at sections near the root may have resulted from the boundary layer having been turbulent in the region of the shock wave at these sections prior to the formation of adverse pressure gradients at the leading edge. At the extreme wing root the boundary layer was probably turbulent from the leading edge at all angles of attack as a result of the spreading onto the wing of the turbulent boundary layer from the tunnel floor.

Effects of Surface Roughness

In order to demonstrate the validity of the conclusions mentioned in the foregoing section with regard to the boundary-layer shock-wave interaction, the cambered and twisted wing was tested with surface roughness at and near the leading edge. If the sudden forward movement of the shock wave were the result of a change from laminar to turbulent flow in the boundary layer ahead of the shock wave, it was thought that fixing the point of transition by disturbing the flow in the boundary layer with roughness at or near the leading edge would stabilize the shock location and eliminate the abrupt changes of slope of the force and moment curves.

The results of tests of three configurations with varying locations of surface roughness are presented in figure 24. Two configurations had roughness around the leading edge from 5 percent of the chord on the lower surface to 4 percent of the chord on the upper surface, one along the entire semispan and one along the outer 60 percent of the semispan. The third configuration had a 1-inch-wide roughness strip applied to only the upper surface with the forward edge at 10 percent of the chord and extending over the outer 60 percent of the semispan. The application of roughness to only the outer 60 percent of the semispan in two cases was based on the pressure distributions which show that the forward shock-wave movement diminished rapidly inboard of 40 percent of the semispan.

From the force and moment data presented in figure 24 it is apparent that, in general, the results expected with the use of surface roughness were obtained. While there still remained a sudden small forward movement of the wing center of pressure at some Mach numbers with roughness over only the outer 60 percent of the semispan, all trace of this effect was eliminated with roughness over the entire semispan. Moreover, at a Mach number of 0.93, roughness over only the outer 60 percent of the semispan was sufficient to completely remove the abrupt changes of slope of the lift, drag, and pitching-moment curves. Roughness at 10 percent of the chord was apparently only slightly less effective than roughness at the leading edge.

These results of the use of surface roughness provide verification of the explanation of the boundary-layer-transition phenomena put forth in the preceding section, but do not necessarily simulate data obtained at a higher Reynolds number.

CONCLUSIONS

An investigation has been made of the effects of scale and compressibility on the aerodynamic characteristics of a cambered and twisted wing having the quarter-chord line swept back 45° and an aspect ratio of 3.0. The results of the tests and a comparison of the force, moment, and surface-pressure data with those obtained on a plane wing of the same plan form and thickness distribution indicate the following conclusions:

1. The general effect of camber and twist on the aerodynamic characteristics of the wing was to delay to higher lift coefficients the onset of flow separation over the outer portions of the wing near the leading edge and the concomitant effects on the lift, drag, and pitching moment. The principal result was a substantial increase in the lift-drag ratios at and above the design lift coefficient of the cambered and twisted wing at a Reynolds number of 4,000,000.

2. The general effect of increasing Reynolds number on the cambered and twisted wing at Mach numbers of 0.25 and 0.60 was to increase slightly the lift coefficient at which the sudden increase in lift-curve slope, longitudinal stability, and rate of drag rise occurred. Increasing the Reynolds number above 6,000,000 at a Mach number of 0.25 resulted in a reduction in the maximum lift-drag ratio of the cambered and twisted wing and an increase in the maximum lift-drag ratio of the plane wing.

3. At a Mach number of 0.25, the maximum values of section normal-force coefficient at the outer sections were only slightly increased by

camber. These maximum values were found to increase approximately the same amount with Reynolds number for both wings.

4. At a Reynolds number of 4,000,000, increasing the Mach number at low lift coefficients resulted in approximately the same increases in lift-curve slope and longitudinal stability for both wings. However, the maximum lift-drag ratios of the cambered and twisted wing were from 16 to 36 percent higher than those of the plane wing for Mach numbers up to 0.90. The Mach numbers for drag divergence were slightly reduced by camber and twist at lift coefficients up to 0.5.

5. Prior to the initiation of flow separation on the cambered and twisted wing at the lower Mach numbers, there were gradual reductions in the lift-curve slopes and longitudinal stability. The severity of these changes increased with Mach number, becoming abrupt at Mach numbers of 0.88 and above.

6. There was found to be a consistent correlation between the appearance of the leading-edge pressure peaks at the various sections of the cambered and twisted wing and the reduction in section normal-force-curve slope and forward movement of the section centers of pressure. At the higher Mach numbers the pressure distributions indicated that there was an abrupt forward shift in the location of the shock wave at the outer sections associated with the formation of the adverse pressure gradient at the leading edge.

7. The use of surface roughness along the leading edge to fix the point of transition from laminar to turbulent flow in the boundary layer was effective in eliminating the sudden changes of slope of the force and moment curves at the higher Mach numbers.

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TABLE I.- COORDINATES FOR THE NACA 64A410 AIRFOIL SECTION

[All dimensions in percent of chord]

Upper surface		Lower surface	
Station	Ordinate	Station	Ordinate
0	0	0	0
.350	.902	.650	-.678
.582	1.112	.918	-.796
1.059	1.451	1.441	-.969
2.276	2.095	2.724	-1.251
4.749	3.034	5.251	-1.592
7.239	3.766	7.761	-1.820
9.737	4.380	10.263	-1.996
14.748	5.366	15.252	-2.244
19.770	6.126	20.230	-2.406
24.800	6.705	25.200	-2.499
29.834	7.131	30.166	-2.537
34.871	7.414	35.129	-2.518
39.910	7.552	40.090	-2.436
44.950	7.522	45.050	-2.266
49.989	7.344	50.011	-2.024
55.025	7.040	54.975	-1.736
60.057	6.624	59.943	-1.418
65.085	6.106	64.915	-1.086
70.108	5.490	69.892	-.760
75.126	4.780	74.874	-.460
80.151	3.967	79.849	-.229
85.148	3.018	84.852	-.132
90.104	2.038	89.896	-.076
95.053	1.028	94.947	-.048
100.002	.021	99.998	-.021

L. E. radius: 0.687
T. E. radius: 0.023
Slope of radius through L. E.: 0.190

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TABLE II.- COORDINATES FOR SECTIONS PARALLEL TO THE PLANE OF SYMMETRY

[All dimensions in percent of chord]

Upper surface		Lower surface	
Station	Ordinate	Station	Ordinate
0	0	0	0
.442	.756	.820	-.567
.734	.931	1.157	-.665
1.334	1.213	1.814	-.809
2.859	1.746	3.417	-1.041
5.926	2.512	6.544	-1.316
8.975	3.097	9.610	-1.495
11.995	3.580	12.626	-1.629
17.937	4.329	18.526	-1.808
23.743	4.881	24.266	-1.914
29.412	5.275	29.857	-1.964
34.947	5.542	35.308	-1.970
40.351	5.692	40.625	-1.932
45.628	5.728	45.814	-1.847
50.779	5.637	50.881	-1.697
55.809	5.440	55.832	-1.499
60.720	5.154	60.672	-1.271
65.514	4.794	65.407	-1.026
70.196	4.369	70.040	-.778
74.768	3.885	74.575	-.538
79.236	3.345	79.014	-.322
83.612	2.745	83.351	-.158
87.869	2.066	87.620	-.091
92.002	1.380	91.831	-.052
96.044	.690	95.958	-.032
100.002	.014	99.998	-.014

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TABLE III.- INDEX OF TABULATED PRESSURE COEFFICIENTS

Table No.	$R \times 10^{-6}$	M_o	α_u range
IV	4.0	0.25	-2° to 26°
V	↓	.40	↓
VI		.60	
VII		.80	-2° to 17°
VIII		.83	-2° to 15°
IX		.86	-2° to 13°
X		.88	-2° to 12°
XI		.90	-2° to 10°
XII		.92	[a]-2° to 7° (8° to 10°)
XIII		.93	-2° to 5° (6° to 9°)
XIV		.94	-2° to 3° (4° to 5°)
XV		.95	-2° to 1° (2° to 7°)
XVI		.96	0° (-2°, 1° to 5°)
XVII	6.0	.25	-2° to 26°
XVIII	6.0	.60	-2° to 24°
XIX	8.0	.25	-2° to 26°
XX	8.0	.60	-2° to 14°
XXI	12.0	.25	-2° to 24°
XXII	18.0	.25	-2° to 16°

[a]Parentheses indicate angles of attack for which the pressure data may have been influenced by model-tunnel-wall shock-wave interaction.

TABLE IV.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.25; R, 4,000,000

(a) α_u, -2°, 0°, 2°, 4°, 6°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.086 b/2	0	0.20	0.38	0.46	0.44	0.32	- - -	- - -	- - -	- - -	- - -
	1.5	.31	.19	.06	-.09	-.29	-0.47	-0.23	-0.05	0.12	0.26
	4.0	.17	.07	-.04	-.15	-.28	-.25	-.14	-.02	.09	.18
	7.0	.10	.02	-.08	-.17	-.27	-.22	-.12	-.04	.06	.14
	10.0	.07	-.02	-.10	-.18	-.27	-.20	-.12	-.04	.04	.12
	15.0	.02	-.06	-.13	-.20	-.28	-.16	-.09	-.03	.04	.10
	20.0	-.03	-.10	-.17	-.23	-.29	-.15	-.09	-.04	.02	.09
	25.0	-.05	-.12	-.18	-.23	-.29	-.16	-.11	-.05	.01	.07
	30.0	-.08	-.14	-.20	-.24	-.30	-.15	-.10	-.05	.01	.06
	35.0	-.10	-.16	-.21	-.26	-.31	-.15	-.10	-.05	0	.04
	40.0	-.13	-.19	-.24	-.28	-.33	-.14	-.10	-.06	-.01	.04
	45.0	-.16	-.21	-.26	-.30	-.34	-.14	-.10	-.06	-.01	.03
	50.0	-.17	-.22	-.27	-.30	-.34	-.13	-.10	-.06	-.02	.02
	60.0	-.17	-.22	-.26	-.28	-.32	-.09	-.06	-.03	.01	.04
	70.0	-.16	-.19	-.22	-.22	-.26	-.05	-.03	0	.03	.06
	80.0	-.13	-.15	-.17	-.18	-.19	0	.02	.04	.07	.08
	90.0	-.03	-.04	-.05	-.05	-.06	.03	.03	.05	.07	.08
	95.0	.02	.01	.01	.01	.01	.04	.04	.05	.07	.07
0.193 b/2	0	.05	.33	.44	.38	.13	- - -	- - -	- - -	- - -	- - -
	1.5	.31	.17	0	-.21	-.47	-.67	-.30	-.06	.13	.29
	4.0	.18	.09	-.08	-.23	-.40	-.33	-.20	-.05	.08	.20
	7.0	.09	-.01	-.13	-.25	-.38	-.27	-.16	-.06	.05	.15
	10.0	.05	-.05	-.15	-.25	-.37	-.25	-.15	-.06	.02	.12
	15.0	0	-.09	-.18	-.27	-.35	-.20	-.12	-.05	.02	.09
	20.0	-.05	-.14	-.21	-.29	-.37	-.18	-.12	-.05	.01	.07
	25.0	-.07	-.15	-.22	-.29	-.33	-.18	-.12	-.06	0	.06
	30.0	-.11	-.17	-.23	-.30	-.33	-.16	-.11	-.06	-.01	.05
	35.0	-.12	-.19	-.25	-.30	-.35	-.16	-.10	-.06	-.02	.04
	40.0	-.16	-.21	-.27	-.32	-.36	-.15	-.10	-.06	-.02	.03
	45.0	-.17	-.22	-.28	-.33	-.36	-.14	-.10	-.06	-.02	.03
	50.0	-.18	-.23	-.28	-.32	-.36	-.13	-.09	-.06	-.02	.02
	60.0	-.18	-.22	-.25	-.29	-.32	-.07	-.05	-.01	.02	.05
	70.0	-.16	-.19	-.21	-.22	-.25	-.02	0	.02	.04	.07
	80.0	-.11	-.13	-.14	-.15	-.17	.02	.03	.05	.07	.09
	90.0	0	-.02	-.02	-.03	-.03	.05	.05	.07	.08	.08
	95.0	.04	.03	.03	.03	.03	.06	.06	.07	.08	.08
0.382 b/2	0	-.16	.28	.42	.36	.03	- - -	- - -	- - -	- - -	- - -
	1.5	.32	.18	-.02	-.26	-.60	-.94	-.40	-.10	.13	.31
	4.0	.19	.05	-.11	-.30	-.52	-.43	-.24	-.07	.09	.22
	7.0	.10	-.03	-.17	-.32	-.48	-.36	-.21	-.08	.04	.15
	10.0	.05	-.05	-.18	-.30	-.44	-.30	-.18	-.07	.02	.12
	15.0	-.01	-.11	-.21	-.32	-.42	-.25	-.16	-.07	.01	.09
	20.0	-.06	-.15	-.24	-.33	-.42	-.21	-.14	-.07	0	.07
	25.0	-.09	-.17	-.25	-.33	-.41	-.19	-.13	-.07	-.01	.05
	30.0	-.11	-.18	-.26	-.33	-.39	-.18	-.12	-.07	-.01	.05
	35.0	-.14	-.21	-.28	-.34	-.39	-.16	-.11	-.07	-.02	.04
	40.0	-.16	-.22	-.29	-.34	-.39	-.16	-.11	-.07	-.03	.03
	45.0	-.18	-.24	-.31	-.35	-.39	-.14	-.10	-.06	-.03	.03
	50.0	-.19	-.24	-.31	-.34	-.37	-.12	-.09	-.06	-.02	.02
	60.0	-.18	-.22	-.26	-.30	-.32	-.07	-.04	-.01	.01	.04
	70.0	-.16	-.18	-.20	-.22	-.25	-.02	0	.02	.04	.06
	80.0	-.11	-.13	-.15	-.16	-.16	.03	.04	.06	.08	.08
	90.0	0	-.02	-.02	-.03	-.03	.06	.06	.08	.08	.08
	95.0	.04	.03	.03	.03	.03	.07	.08	.09	.09	.08
0.555 b/2	0	-.26	.23	.42	.34	-.06	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.18	-.05	-.33	-.69	-1.12	-.45	-.10	.16	.34
	4.0	.23	.08	-.09	-.30	-.54	-.49	-.29	-.08	.09	.24
	7.0	.13	0	-.14	-.31	-.50	-.40	-.22	-.08	.05	.16
	10.0	.08	-.04	-.17	-.31	-.46	-.34	-.20	-.08	.03	.13
	15.0	.01	-.09	-.19	-.31	-.42	-.26	-.16	-.07	.02	.10
	20.0	-.04	-.13	-.23	-.33	-.42	-.22	-.14	-.07	0	.08
	25.0	-.07	-.15	-.23	-.33	-.40	-.20	-.14	-.07	0	.06
	30.0	-.09	-.16	-.24	-.32	-.39	-.18	-.12	-.06	-.01	.06
	35.0	-.12	-.19	-.26	-.32	-.39	-.16	-.11	-.06	-.01	.04
	40.0	-.15	-.21	-.28	-.33	-.39	-.15	-.11	-.06	-.01	.03
	45.0	-.16	-.22	-.28	-.33	-.38	-.14	-.09	-.06	-.01	.03
	50.0	-.17	-.23	-.28	-.33	-.37	-.12	-.08	-.05	-.01	.02
	60.0	-.16	-.21	-.24	-.28	-.30	-.06	-.03	-.01	.01	.04
	70.0	-.14	-.17	-.20	-.22	-.23	-.01	.01	.02	.05	.06
	80.0	-.09	-.12	-.13	-.14	-.14	.04	.05	.07	.09	.09
	90.0	0	-.02	-.02	-.02	-.02	.07	.07	.09	.09	.09
	95.0	.05	.04	.04	.05	.04	.09	.09	.10	.10	.11

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[redacted]

TABLE IV.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.707 b/2	0	-0.59	0.12	0.42	0.38	-0.04	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.24	.03	-.25	-.64	-1.38	-0.57	-0.18	0.12	0.33
	4.0	.29	.12	-.06	-.28	-.53	-.61	-.37	-.13	.06	.22
	7.0	.16	.03	-.13	-.30	-.49	-.46	-.27	-.12	.03	.16
	10.0	.11	-.01	-.14	-.29	-.45	-.38	-.24	-.11	.01	.11
	15.0	.04	-.07	-.18	-.30	-.43	-.29	-.19	-.09	0	.08
	20.0	-.02	-.11	-.21	-.31	-.41	-.24	-.16	-.08	-.01	.06
	25.0	-.05	-.14	-.22	-.31	-.40	-.22	-.15	-.08	-.02	.04
	30.0	-.09	-.16	-.24	-.32	-.39	-.20	-.14	-.08	-.02	.03
	35.0	-.11	-.19	-.26	-.33	-.39	-.18	-.13	-.08	-.03	.02
	40.0	-.14	-.20	-.27	-.33	-.38	-.15	-.12	-.08	-.03	.01
	45.0	-.16	-.22	-.28	-.33	-.38	-.14	-.10	-.06	-.03	.01
	50.0	-.17	-.23	-.28	-.33	-.36	-.11	-.08	-.05	-.02	.01
	60.0	-.15	-.19	-.24	-.28	-.29	-.05	-.03	-.01	0	.02
	70.0	-.13	-.16	-.18	-.20	-.23	0	.01	.02	.04	.05
	80.0	-.09	-.12	-.13	-.15	-.14	.05	.05	.07	.08	.07
	90.0	0	-.01	-.02	-.02	-.02	.08	.08	.09	.09	.09
	95.0	.05	.04	.04	.04	.04	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.58	.21	.49	.44	.07	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.27	.07	-.20	-.59	-1.56	-.49	-.23	.07	.31
	4.0	.27	.13	-.04	-.25	-.49	-.65	-.39	-.17	.03	.19
	7.0	.17	.05	-.10	-.27	-.46	-.48	-.29	-.14	0	.13
	10.0	.11	0	-.13	-.27	-.43	-.39	-.25	-.12	-.01	.09
	15.0	.04	-.06	-.17	-.28	-.40	-.31	-.20	-.11	-.02	.06
	20.0	-.01	-.10	-.20	-.30	-.40	-.26	-.17	-.09	-.03	.04
	25.0	-.05	-.13	-.21	-.30	-.38	-.22	-.15	-.09	-.04	.02
	30.0	-.09	-.15	-.23	-.30	-.37	-.19	-.13	-.08	-.04	.01
	35.0	-.11	-.17	-.24	-.30	-.36	-.17	-.12	-.08	-.05	0
	40.0	-.14	-.19	-.26	-.31	-.36	-.14	-.10	-.07	-.05	-.01
	45.0	-.16	-.21	-.26	-.31	-.35	-.12	-.09	-.06	-.05	-.02
	50.0	-.17	-.21	-.26	-.30	-.33	-.09	-.07	-.05	-.03	-.01
	60.0	-.16	-.19	-.23	-.25	-.28	-.04	-.03	-.01	-.01	.01
	70.0	-.13	-.15	-.16	-.20	-.21	.01	.02	.03	.04	.03
	80.0	-.09	-.10	-.12	-.13	-.13	.06	.07	.07	.07	.07
	90.0	0	0	-.01	-.01	-.02	.09	.09	.09	.09	.07
	95.0	.05	.05	.05	.05	.04	.10	.10	.10	.10	.09
0.924 b/2	0	-1.61	-.51	.15	.40	.35	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.27	.09	-.15	-.51	-1.64	-.75	-.31	.01	.27
	4.0	.25	.13	-.02	-.20	-.42	- - -	- - -	- - -	- - -	- - -
	7.0	.16	.05	-.08	-.23	-.40	-.49	-.32	-.17	-.05	.07
	10.0	.09	-.01	-.12	-.24	-.38	-.39	-.27	-.16	-.06	.04
	15.0	.01	-.07	-.16	-.26	-.36	-.29	-.24	-.13	-.06	.01
	20.0	-.05	-.11	-.18	-.26	-.33	-.22	-.17	-.11	-.07	-.03
	25.0	-.08	-.13	-.20	-.26	-.33	-.18	-.14	-.09	-.06	-.03
	30.0	-.11	-.15	-.21	-.26	-.32	-.15	-.12	-.08	-.06	-.04
	35.0	-.12	-.17	-.22	-.27	-.31	-.13	-.10	-.08	-.06	-.04
	40.0	-.14	-.17	-.22	-.26	-.30	-.11	-.09	-.08	-.06	-.05
	45.0	-.15	-.18	-.23	-.27	-.30	-.10	-.07	-.06	-.05	-.05
	50.0	-.15	-.19	-.22	-.25	-.28	-.07	-.06	-.05	-.05	-.05
	60.0	-.14	-.15	-.17	-.20	-.23	-.03	-.02	-.01	-.02	-.03
	70.0	-.10	-.12	-.13	-.15	-.18	.02	.03	.02	.01	0
	80.0	-.07	-.07	-.09	-.10	-.13	.07	.08	.07	.05	.04
	90.0	.01	.01	0	-.02	-.04	.09	.08	.09	.06	.04
	95.0	.06	.06	.06	.04	.02	.10	.10	.10	.08	.06

TABLE IV.- CONTINUED

(b) α_u, 8°, 10°, 12°, 14°, 16°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.086 b/2	0	0.07	-0.30	-0.78	-1.38	-2.12	- - -	- - -	- - -	- - -	- - -
	1.5	-.50	-.76	-.95	-1.17	-1.50	0.36	0.44	0.49	0.52	0.51
	4.0	-.42	-.57	-.72	-.89	-1.06	.28	.35	.42	.47	.52
	7.0	-.37	-.49	-.60	-.72	-.84	.21	.29	.35	.41	.46
	10.0	-.36	-.45	-.55	-.64	-.75	.18	.25	.32	.37	.43
	15.0	-.35	-.43	-.50	-.58	-.66	.16	.22	.28	.33	.39
	20.0	-.36	-.43	-.49	-.56	-.63	.14	.20	.25	.30	.35
	25.0	-.35	-.41	-.46	-.52	-.59	.12	.17	.23	.27	.33
	30.0	-.35	-.41	-.46	-.51	-.57	.11	.16	.21	.25	.31
	35.0	-.36	-.41	-.45	-.50	-.55	.09	.14	.19	.24	.29
	40.0	-.38	-.42	-.46	-.50	-.55	.08	.12	.18	.22	.27
	45.0	-.38	-.42	-.45	-.49	-.54	.07	.12	.15	.20	.25
	50.0	-.37	-.41	-.44	-.47	-.51	.06	.11	.15	.19	.23
	60.0	-.35	-.37	-.40	-.42	-.45	.08	.11	.15	.19	.22
	70.0	-.28	-.30	-.32	-.34	-.35	.08	.11	.14	.18	.21
	80.0	-.21	-.22	-.22	-.23	-.25	.11	.13	.16	.18	.22
	90.0	-.06	-.06	-.07	-.07	-.08	.10	.11	.13	.14	.17
	95.0	0	0	.01	0	0	.08	.10	.11	.13	.14
0.195 b/2	0	-.29	-.90	-1.70	-2.69	-3.92	- - -	- - -	- - -	- - -	- - -
	1.5	-.76	-1.23	-1.14	-1.64	-2.10	.39	.46	.48	.47	.42
	4.0	-.58	-.78	-1.00	-1.23	-1.48	.30	.38	.44	.49	.52
	7.0	-.51	-.66	-.82	-.98	-1.16	.24	.31	.38	.44	.49
	10.0	-.47	-.60	-.71	-.85	-1.00	.19	.27	.34	.39	.46
	15.0	-.44	-.53	-.63	-.73	-.84	.16	.23	.29	.35	.41
	20.0	-.44	-.52	-.60	-.68	-.77	.14	.20	.26	.31	.37
	25.0	-.41	-.48	-.55	-.62	-.70	.12	.17	.23	.29	.34
	30.0	-.41	-.47	-.53	-.59	-.65	.10	.16	.21	.26	.32
	35.0	-.41	-.46	-.51	-.57	-.60	.09	.14	.19	.24	.29
	40.0	-.41	-.46	-.50	-.54	-.60	.08	.13	.17	.22	.27
	45.0	-.40	-.44	-.48	-.52	-.56	.07	.12	.16	.20	.25
	50.0	-.39	-.42	-.46	-.49	-.53	.06	.10	.14	.19	.23
	60.0	-.33	-.36	-.38	-.40	-.44	.08	.11	.15	.18	.22
	70.0	-.26	-.28	-.29	-.30	-.33	.09	.12	.15	.18	.21
	80.0	-.16	-.17	-.18	-.18	-.20	.11	.13	.15	.18	.20
	90.0	-.03	-.03	-.03	-.04	-.06	.10	.12	.13	.15	.17
	95.0	.03	.03	.02	.02	.01	.09	.10	.11	.12	.13
0.382 b/2	0	-.56	-1.40	-2.51	-3.89	-5.57	- - -	- - -	- - -	- - -	- - -
	1.5	-1.16	-1.06	-1.63	-2.17	-3.73	.40	.43	.40	.32	.17
	4.0	-.75	-1.01	-1.30	-1.60	-1.93	.32	.39	.44	.47	.47
	7.0	-.66	-.85	-1.05	-1.42	-1.50	.25	.33	.39	.44	.48
	10.0	-.57	-.73	-.90	-1.06	-1.28	.21	.28	.35	.41	.46
	15.0	-.54	-.65	-.77	-.90	-1.07	.17	.23	.30	.35	.41
	20.0	-.51	-.61	-.71	-.81	-.95	.14	.21	.26	.31	.37
	25.0	-.48	-.57	-.65	-.73	-.85	.12	.18	.23	.28	.33
	30.0	-.46	-.53	-.60	-.68	-.77	.10	.15	.20	.25	.31
	35.0	-.45	-.52	-.57	-.63	-.71	.09	.14	.18	.23	.28
	40.0	-.44	-.49	-.54	-.59	-.66	.07	.12	.16	.20	.25
	45.0	-.43	-.47	-.52	-.55	-.61	.06	.11	.15	.19	.23
	50.0	-.41	-.44	-.47	-.50	-.55	.05	.10	.13	.17	.21
	60.0	-.34	-.36	-.39	-.39	-.43	.07	.10	.14	.16	.20
	70.0	-.25	-.27	-.27	-.26	-.31	.08	.10	.13	.15	.18
	80.0	-.16	-.15	-.15	-.15	-.19	.10	.12	.13	.15	.17
	90.0	-.02	-.02	-.03	-.05	-.09	.09	.10	.12	.12	.13
	95.0	.03	.02	.01	-.01	-.06	.09	.09	.10	.10	.09
0.555 b/2	0	-.79	-1.83	-3.22	-4.86	-3.70	- - -	- - -	- - -	- - -	- - -
	1.5	-1.09	-1.63	-2.28	-2.84	-2.26	.42	.43	.36	.23	.18
	4.0	-.80	-1.10	-1.43	-1.77	-1.92	.38	.40	.47	.46	.47
	7.0	-.69	-.91	-1.14	-1.38	-1.70	.26	.34	.40	.45	.47
	10.0	-.62	-.79	-.97	-1.17	-1.46	.22	.29	.36	.41	.44
	15.0	-.55	-.69	-.82	-.98	-1.23	.17	.24	.31	.36	.40
	20.0	-.53	-.64	-.75	-.86	-1.02	.15	.21	.27	.32	.36
	25.0	-.49	-.58	-.68	-.77	-.89	.12	.18	.23	.28	.32
	30.0	-.47	-.55	-.62	-.70	-.79	.11	.16	.21	.25	.30
	35.0	-.46	-.52	-.58	-.65	-.70	.09	.14	.19	.23	.27
	40.0	-.45	-.51	-.56	-.61	-.64	.07	.12	.16	.20	.24
	45.0	-.43	-.47	-.51	-.55	-.58	.07	.10	.14	.18	.22
	50.0	-.41	-.45	-.47	-.50	-.52	.06	.09	.14	.16	.19
	60.0	-.33	-.37	-.36	-.38	-.40	.07	.09	.12	.15	.17
	70.0	-.24	-.25	-.25	-.25	-.28	.08	.10	.12	.14	.15
	80.0	-.14	-.14	-.13	-.14	-.17	.10	.11	.13	.14	.14
	90.0	-.02	-.02	-.03	-.06	-.08	.09	.10	.10	.10	.09
	95.0	.04	.02	0	-.04	-.05	.10	.10	.09	.08	.07

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TABLE IV.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.707 b/2	0	-0.86	-2.06	-3.66	-5.60	-3.96	- - -	- - -	- - -	- - -	- - -
	1.5	-1.28	-1.43	-2.08	-2.69	-2.81	0.12	0.41	0.32	0.15	0.09
	4.0	-.82	-1.15	-1.49	-1.85	-2.07	.32	.40	.44	.44	.44
	7.0	-.71	-.94	-1.19	-1.44	-1.78	.26	.33	.39	.44	.47
	10.0	-.63	-.81	-1.01	-1.21	-1.43	.21	.29	.35	.39	.44
	15.0	-.56	-.70	-.85	-1.00	-1.18	.16	.23	.29	.34	.39
	20.0	-.53	-.64	-.75	-.87	-.96	.13	.19	.25	.30	.34
	25.0	-.49	-.59	-.68	-.78	-.84	.10	.16	.21	.25	.29
	30.0	-.48	-.55	-.63	-.70	-.73	.08	.14	.18	.22	.25
	35.0	-.46	-.52	-.59	-.65	-.65	.07	.10	.15	.19	.22
	40.0	-.44	-.49	-.54	-.58	-.57	.05	.09	.13	.16	.19
	45.0	-.43	-.47	-.51	-.54	-.52	.04	.07	.11	.14	.17
	50.0	-.40	-.44	-.46	-.47	-.45	.04	.07	.09	.12	.14
	60.0	-.32	-.34	-.35	-.34	-.35	.04	.06	.09	.10	.12
	70.0	-.24	-.24	-.23	-.21	-.25	.06	.07	.08	.09	.09
	80.0	-.14	-.14	-.12	-.11	-.20	.08	.08	.09	.08	.09
	90.0	-.02	-.01	-.02	-.06	-.14	.09	.08	.07	.05	.04
	95.0	.04	.03	0	-.05	-.12	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.69	-1.87	-3.45	-4.89	-3.70	- - -	- - -	- - -	- - -	- - -
	1.5	-1.28	-1.52	-1.93	-2.58	-2.09	.41	.42	.32	.15	.14
	4.0	-.77	-1.07	-1.41	-1.74	-1.83	.31	.39	.42	.44	.45
	7.0	-.67	-.89	-1.13	-1.39	-1.73	.22	.31	.37	.41	.45
	10.0	-.60	-.78	-.97	-1.16	-1.45	.18	.26	.32	.37	.41
	15.0	-.53	-.67	-.81	-.94	-1.29	.13	.20	.26	.31	.34
	20.0	-.50	-.62	-.72	-.83	-1.04	.10	.15	.21	.25	.28
	25.0	-.47	-.56	-.65	-.73	-.92	.07	.12	.17	.21	.24
	30.0	-.45	-.52	-.60	-.65	-.78	.05	.09	.13	.17	.20
	35.0	-.43	-.49	-.55	-.59	-.70	.03	.07	.10	.14	.17
	40.0	-.42	-.47	-.51	-.54	-.60	.02	.05	.07	.10	.13
	45.0	-.40	-.44	-.48	-.49	-.54	.01	.04	.06	.08	.11
	50.0	-.37	-.40	-.43	-.44	-.46	.01	.03	.04	.06	.08
	60.0	-.30	-.32	-.33	-.32	-.36	.02	.03	.03	.05	.06
	70.0	-.22	-.23	-.23	-.21	-.27	.03	.03	.03	.03	.04
	80.0	-.14	-.14	-.13	-.12	.23	.06	.05	.04	.04	.04
	90.0	-.02	-.03	-.05	-.09	-.19	.06	.05	.03	.01	0
	95.0	.03	.02	-.02	-.07	-.16	.07	.05	.02	-.01	-.04
0.924 b/2	0	-.05	-.80	-1.90	-3.27	-1.48	- - -	- - -	- - -	- - -	- - -
	1.5	-1.05	-1.58	-1.78	-2.38	-1.44	.38	.30	.32	.16	.24
	4.0	-.66	-.93	-1.24	-1.54	-1.31	- - -	- - -	- - -	- - -	- - -
	7.0	-.58	-.78	-1.00	-1.22	-1.27	.18	.25	.31	.35	.35
	10.0	-.52	-.68	-.83	-1.00	-1.13	.11	.19	.23	.29	.29
	15.0	-.47	-.58	-.70	-.82	-1.03	.06	.11	.16	.20	.22
	20.0	-.42	-.51	-.61	-.71	-.85	.01	.05	.08	.11	.13
	25.0	-.40	-.48	-.56	-.64	-.76	0	.03	.05	.08	.10
	30.0	-.38	-.44	-.51	-.57	-.65	-.03	-.01	.01	.02	.04
	35.0	-.37	-.42	-.48	-.53	-.60	-.03	-.01	-.02	.01	.03
	40.0	-.35	-.41	-.46	-.49	-.56	-.05	-.04	-.04	-.03	-.01
	45.0	-.35	-.39	-.44	-.47	-.53	-.05	-.04	-.03	-.03	-.01
	50.0	-.32	-.37	-.41	-.43	-.52	-.04	-.05	-.06	-.06	-.03
	60.0	-.27	-.30	-.33	-.34	-.46	-.03	-.04	-.04	-.06	-.03
	70.0	-.21	-.24	-.28	-.28	-.48	-.03	-.04	-.06	-.07	-.04
	80.0	-.16	-.18	-.22	-.21	-.43	.01	-.01	-.03	-.05	-.03
	90.0	-.09	-.11	-.15	-.26	-.41	.01	-.01	-.04	-.06	-.06
	95.0	-.02	-.05	-.11	-.24	-.36	.03	0	-.04	-.08	-.11

TABLE IV.- CONTINUED

(c) α_u, 18°, 20°, 22°, 24°, 26°

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	26°	Lower surface, Angle of attack 18°	20°	22°	24°	26°
0.086 b/2	0	-3.02	-3.98	-5.05	-6.07	-6.87	- - -	- - -	- - -	- - -	- - -
	1.5	-1.86	-2.19	-2.54	-2.83	-3.01	0.49	0.45	0.38	0.32	0.27
	4.0	-1.27	-1.44	-1.64	-1.77	-1.83	.56	.58	.60	.63	.65
	7.0	-.98	-1.10	-1.24	-1.34	-1.39	.51	.55	.59	.63	.67
	10.0	-.87	-.96	-1.08	-1.17	-1.29	.48	.53	.57	.61	.65
	15.0	-.76	-.83	-.93	-1.03	-1.18	.44	.49	.52	.57	.60
	20.0	-.71	-.77	-.88	-1.00	-1.13	.41	.45	.50	.54	.56
	25.0	-.66	-.71	-.84	-.95	-1.05	.37	.42	.46	.49	.52
	30.0	-.64	-.69	-.81	-.95	-1.02	.35	.40	.44	.47	.50
	35.0	-.61	-.66	-.79	-.91	-.99	.33	.37	.41	.44	.46
	40.0	-.62	-.66	-.80	-.92	-.98	.31	.35	.38	.41	.44
	45.0	-.60	-.65	-.78	-.90	-.96	.29	.33	.36	.39	.41
	50.0	-.57	-.63	-.76	-.87	-.94	.28	.31	.34	.36	.38
	60.0	-.51	-.56	-.68	-.80	-.89	.26	.29	.31	.33	.35
	70.0	-.41	-.46	-.57	-.69	-.79	.24	.27	.28	.30	.31
	80.0	-.29	-.34	-.44	-.54	-.66	.23	.26	.26	.27	.28
	90.0	-.11	-.15	-.22	-.31	-.42	.18	.20	.19	.19	.17
	95.0	-.02	-.05	-.11	-.18	-.28	.14	.15	.14	.13	.10
0.195 b/2	0	-5.42	-6.98	-8.68	-6.10	-2.51	- - -	- - -	- - -	- - -	- - -
	1.5	-2.64	-3.15	-3.66	-3.06	-2.32	.33	.22	.12	.20	.31
	4.0	-1.78	-2.03	-2.29	-2.74	-2.08	.54	.55	.57	.63	.64
	7.0	-1.36	-1.54	-1.76	-2.50	-2.03	.54	.58	.63	.67	.69
	10.0	-1.08	-1.31	-1.60	-2.23	-1.96	.51	.56	.61	.65	.67
	15.0	-.97	-1.08	-1.40	-1.90	-1.73	.47	.52	.58	.60	.62
	20.0	-.88	-.98	-1.28	-1.62	-1.57	.43	.48	.53	.56	.58
	25.0	-.80	-.88	-1.11	-1.37	-1.45	.39	.44	.49	.52	.54
	30.0	-.75	-.83	-1.01	-1.26	-1.35	.37	.42	.45	.48	.51
	35.0	-.71	-.78	-.93	-1.11	-1.26	.34	.38	.41	.44	.47
	40.0	-.68	-.76	-.87	-1.06	-1.21	.32	.36	.39	.41	.44
	45.0	-.64	-.72	-.82	-.98	-1.13	.29	.33	.36	.39	.40
	50.0	-.61	-.69	-.77	-.92	-1.09	.27	.31	.33	.35	.37
	60.0	-.50	-.58	-.66	-.78	-.95	.25	.28	.30	.32	.32
	70.0	-.39	-.46	-.54	-.67	-.84	.23	.26	.27	.27	.28
	80.0	-.24	-.30	-.39	-.51	-.68	.22	.23	.24	.24	.23
	90.0	-.09	-.14	-.22	-.34	-.51	.18	.18	.17	.14	.11
	95.0	-.02	-.06	-.14	-.24	-.42	.13	.13	.11	.06	.02
0.382 b/2	0	-6.66	-7.36	-1.98	-1.57	-1.37	- - -	- - -	- - -	- - -	- - -
	1.5	-3.67	-3.45	-1.80	-1.48	-1.31	.02	-.07	.22	.24	.23
	4.0	-2.41	-2.87	-1.70	-1.43	-1.28	.48	.50	.55	.55	.55
	7.0	-1.87	-2.54	-1.69	-1.42	-1.27	.52	.56	.59	.59	.60
	10.0	-1.54	-2.25	-1.62	-1.38	-1.24	.51	.56	.56	.58	.59
	15.0	-1.26	-1.83	-1.62	-1.36	-1.24	.47	.52	.52	.54	.56
	20.0	-1.08	-1.62	-1.55	-1.32	-1.20	.42	.47	.48	.50	.53
	25.0	-.96	-1.40	-1.52	-1.31	-1.20	.39	.42	.44	.46	.48
	30.0	-.86	-1.29	-1.44	-1.28	-1.17	.35	.39	.41	.42	.44
	35.0	-.80	-1.13	-1.38	-1.26	-1.16	.32	.36	.38	.39	.41
	40.0	-.74	-1.03	-1.30	-1.21	-1.13	.29	.33	.34	.35	.37
	45.0	-.67	-.90	-1.24	-1.19	-1.12	.26	.30	.31	.30	.34
	50.0	-.60	-.83	-1.17	-1.15	-1.09	.24	.27	.28	.29	.30
	60.0	-.48	-.64	-1.01	-1.06	-1.05	.22	.24	.25	.25	.25
	70.0	-.34	-.49	-.85	-.95	-.96	.19	.20	.19	.19	.19
	80.0	-.21	-.34	-.65	-.82	-.87	.18	.18	.17	.13	.12
	90.0	-.11	-.23	-.48	-.69	-.77	.12	.11	.07	.01	-.03
	95.0	-.08	-.18	-.39	-.61	-.72	.07	.06	-.01	-.10	-.17
0.555 b/2	0	-2.71	-1.70	-1.30	-1.17	-1.12	- - -	- - -	- - -	- - -	- - -
	1.5	-2.08	-1.62	-1.22	-1.12	-1.04	.21	.25	.26	.24	.22
	4.0	-1.91	-1.42	-1.17	-1.08	-1.03	.53	.53	.52	.52	.52
	7.0	-1.88	-1.41	-1.16	-1.07	-1.02	.54	.54	.54	.55	.56
	10.0	-1.80	-1.35	-1.13	-1.05	-.99	.51	.52	.52	.53	.55
	15.0	-1.78	-1.33	-1.11	-1.03	-.98	.46	.48	.49	.50	.52
	20.0	-1.64	-1.27	-1.07	-1.00	-.95	.41	.43	.44	.46	.48
	25.0	-1.55	-1.22	-1.07	-.99	-.94	.37	.39	.40	.42	.43
	30.0	-1.42	-1.22	-1.04	-.97	-.92	.33	.35	.36	.38	.40
	35.0	-1.28	-1.21	-1.04	-.97	-.92	.30	.32	.32	.34	.36
	40.0	-1.18	-1.16	-1.02	-.96	-.91	.27	.29	.29	.30	.31
	45.0	-1.04	-1.12	-1.02	-.96	-.90	.24	.25	.26	.27	.28
	50.0	-1.03	-1.06	-.99	-.93	-.89	.22	.23	.22	.23	.24
	60.0	-.72	-.95	-.95	-.92	-.88	.18	.19	.17	.18	.18
	70.0	-.56	-.81	-.87	-.85	.83	.15	.15	.12	.11	.11
	80.0	-.36	-.66	-.78	-.79	-.77	.14	.11	.07	.05	.05
	90.0	-.24	-.55	-.69	-.71	-.70	.08	.01	-.06	-.09	-.09
	95.0	-.19	-.46	-.65	-.67	-.66	.03	-.06	-.18	-.21	-.21

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TABLE IV.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	26°	Lower surface, Angle of attack 18°	20°	22°	24°	26°
0.707 b/2	0	-1.22	-1.04	-0.92	-0.86	-0.81	- - -	- - -	- - -	- - -	- - -
	1.5	-1.15	-1.01	-.89	-.83	-.79	0.41	0.29	0.28	0.28	0.24
	4.0	-1.10	-.97	-.86	-.81	-.77	.50	.49	.49	.49	.49
	7.0	-1.08	-.96	-.85	-.80	-.76	.49	.49	.50	.50	.51
	10.0	-1.04	-.93	-.82	-.80	-.74	.45	.46	.46	.48	.49
	15.0	-1.02	-.91	-.81	-.77	-.73	.39	.41	.44	.44	.45
	20.0	-.97	-.87	-.78	-.74	-.71	.35	.36	.37	.39	.41
	25.0	-.95	-.86	-.77	-.73	-.71	.31	.32	.32	.34	.36
	30.0	-.92	-.83	-.75	-.71	-.69	.26	.28	.28	.30	.31
	35.0	-.91	-.83	-.75	-.72	-.69	.23	.24	.24	.26	.28
	40.0	-.88	-.82	-.74	-.71	-.68	.19	.20	.21	.21	.23
	45.0	-.88	-.82	-.75	-.72	-.69	.18	.17	.17	.18	.20
	50.0	-.84	-.80	-.74	-.71	-.69	.14	.15	.16	.15	.16
	60.0	-.79	-.77	-.74	-.71	-.70	.11	.09	.09	.09	.10
	70.0	-.69	-.71	-.69	-.68	-.67	.07	.05	.03	.03	.04
	80.0	-.60	-.65	-.66	-.64	-.63	.03	0	-.02	0	-.01
	90.0	-.52	-.57	-.58	-.58	-.57	-.05	-.10	-.12	-.12	-.11
	95.0	-.47	-.53	-.56	-.55	-.55	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.94	-.82	-.72	-.67	-.64	- - -	- - -	- - -	- - -	- - -
	1.5	-.91	-.80	-.71	-.66	-.62	.33	.32	.31	.29	.28
	4.0	-.87	-.77	-.68	-.64	-.60	.46	.47	.47	.47	.47
	7.0	-.86	-.76	-.68	-.64	-.60	.43	.45	.45	.46	.48
	10.0	-.83	-.73	-.65	-.62	-.59	.39	.41	.42	.43	.55
	15.0	-.82	-.72	-.65	-.61	-.59	.35	.35	.36	.38	.50
	20.0	-.78	-.68	-.62	-.59	-.57	.27	.30	.30	.32	.34
	25.0	-.78	-.68	-.61	-.59	-.57	.24	.26	.26	.28	.30
	30.0	-.74	-.66	-.60	-.57	-.56	.19	.21	.21	.23	.25
	35.0	-.73	-.66	-.60	-.57	-.56	.15	.17	.18	.19	.21
	40.0	-.70	-.64	-.59	-.57	-.55	.12	.13	.13	.15	.16
	45.0	-.70	-.64	-.60	-.58	-.57	.09	.10	.10	.11	.13
	50.0	-.66	-.63	-.59	-.57	-.56	.06	.07	.07	.08	.09
	60.0	-.63	-.62	-.60	-.58	-.58	.03	.03	.03	.04	.04
	70.0	-.57	-.59	-.58	-.57	-.55	-.01	-.02	-.02	-.01	0
	80.0	-.54	-.57	-.56	-.55	-.53	-.03	-.04	-.05	-.06	-.04
	90.0	-.50	-.51	-.50	-.49	-.49	-.11	-.12	-.13	-.13	-.13
	95.0	-.48	-.49	-.49	-.48	-.47	-.20	-.21	-.21	-.22	-.21
0.924 b/2	0	-.74	-.68	-.63	-.62	-.64	- - -	- - -	- - -	- - -	- - -
	1.5	-.71	-.62	-.55	-.52	-.50	.31	.31	.31	.28	.26
	4.0	-.74	-.62	-.53	-.51	-.49	- - -	- - -	- - -	- - -	- - -
	7.0	-.74	-.60	-.53	-.51	-.50	.35	.36	.37	.38	.39
	10.0	-.74	-.57	-.50	-.49	-.49	.28	.30	.31	.32	.33
	15.0	-.73	-.57	-.50	-.49	-.49	.21	.23	.24	.26	.28
	20.0	-.68	-.55	-.49	-.48	-.48	.13	.15	.16	.17	.29
	25.0	-.65	-.54	-.49	-.48	-.48	.11	.12	.13	.14	.15
	30.0	-.59	-.51	-.47	-.47	-.48	.04	.06	.07	.08	.09
	35.0	-.56	-.49	-.47	-.47	-.48	.03	.05	.05	.06	.07
	40.0	-.50	-.46	-.45	-.46	-.47	-.01	0	.01	.01	.02
	45.0	-.48	-.46	-.45	-.46	-.48	-.01	0	-.01	0	.01
	50.0	-.44	-.44	-.44	-.45	-.47	-.04	-.03	-.03	-.04	-.02
	60.0	-.43	-.45	-.45	-.45	-.47	-.04	-.04	-.06	-.05	-.04
	70.0	-.41	-.44	-.44	-.44	-.45	-.07	-.08	-.08	-.08	-.08
	80.0	-.42	-.45	-.44	-.43	-.44	-.07	-.07	-.08	-.08	-.08
	90.0	-.39	-.42	-.40	-.40	-.41	-.11	-.13	-.13	-.13	-.13
	95.0	-.40	-.41	-.40	-.39	-.40	-.18	-.19	-.18	-.18	-.18

NACA

TABLE V.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.40; R, 4,000,000

(a) α_u, -2°, 0°, 2°, 4°, 6°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.086 b/2	0	0.21	0.39	0.47	0.46	0.35	- - -	- - -	- - -	- - -	- - -
	1.5	.32	.21	.08	-.09	-.28	-0.29	-0.25	-0.05	0.11	0.25
	4.0	.18	.08	-.02	-.15	-.28	-.26	-.14	-.03	.08	.18
	7.0	.11	.02	-.07	-.17	-.27	-.22	-.12	-.04	.05	.13
	10.0	.07	-.01	-.10	-.18	-.27	-.20	-.12	-.04	.04	.11
	15.0	.02	-.06	-.13	-.20	-.28	-.17	-.10	-.04	.04	.10
	20.0	-.02	-.09	-.16	-.23	-.30	-.16	-.10	-.04	.02	.09
	25.0	-.05	-.11	-.18	-.24	-.30	-.16	-.10	-.05	.01	.07
	30.0	-.08	-.14	-.20	-.26	-.31	-.15	-.10	-.05	.01	.06
	35.0	-.10	-.16	-.22	-.27	-.32	-.15	-.10	-.05	0	.05
	40.0	-.14	-.19	-.24	-.29	-.34	-.15	-.11	-.06	-.01	.04
	45.0	-.16	-.21	-.26	-.31	-.35	-.15	-.11	-.06	-.01	.03
	50.0	-.18	-.22	-.27	-.31	-.35	-.14	-.10	-.06	-.02	.03
	60.0	-.19	-.23	-.26	-.30	-.33	-.10	-.06	-.03	.01	.04
	70.0	-.17	-.20	-.23	-.25	-.28	-.05	-.03	-.01	.03	.06
	80.0	-.13	-.16	-.17	-.19	-.21	0	.02	.05	.07	.09
	90.0	-.03	-.14	-.05	-.05	-.06	.03	.04	.06	.07	.06
	95.0	.02	.01	.01	.01	.01	.05	.05	.06	.07	.07
0.105 b/2	0	.05	.32	.44	.40	.18	- - -	- - -	- - -	- - -	- - -
	1.5	.32	.19	.01	-.20	-.46	-.72	-.32	-.07	.12	.28
	4.0	.19	.07	-.07	-.23	-.40	-.35	-.22	-.03	.08	.20
	7.0	.10	-.01	-.12	-.25	-.38	-.29	-.16	-.06	.05	.14
	10.0	.05	-.04	-.14	-.26	-.37	-.26	-.16	-.06	.03	.11
	15.0	0	-.09	-.18	-.26	-.36	-.21	-.13	-.05	.02	.08
	20.0	-.05	-.13	-.21	-.30	-.38	-.19	-.13	-.06	.01	.07
	25.0	-.08	-.15	-.22	-.30	-.37	-.18	-.13	-.06	0	.06
	30.0	-.11	-.17	-.24	-.31	-.37	-.17	-.12	-.06	-.01	.05
	35.0	-.13	-.19	-.26	-.32	-.36	-.16	-.11	-.06	-.01	.04
	40.0	-.16	-.22	-.28	-.33	-.38	-.16	-.11	-.07	-.02	.03
	45.0	-.18	-.23	-.29	-.34	-.38	-.14	-.10	-.06	-.02	.02
	50.0	-.19	-.23	-.29	-.34	-.37	-.13	-.10	-.06	-.02	.05
	60.0	-.19	-.23	-.27	-.31	-.33	-.08	-.05	-.01	.01	.04
	70.0	-.16	-.19	-.22	-.23	-.26	-.03	-.01	.02	.04	.07
	80.0	-.11	-.14	-.15	-.16	-.18	.02	.03	.06	.08	.09
	90.0	-.01	-.02	-.03	-.03	-.04	.05	.06	.07	.08	.09
	95.0	.04	.03	.04	.03	.03	.06	.07	.08	.08	.09
0.382 b/2	0	-.13	.27	.42	.37	.06	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.19	-.01	-.28	-.60	-1.98	-.42	-.09	.14	.31
	4.0	.20	.06	-.11	-.31	-.53	-.45	-.26	-.06	.09	.22
	7.0	.10	-.03	-.16	-.32	-.52	-.37	-.22	-.07	.04	.16
	10.0	.06	-.06	-.18	-.31	-.45	-.31	-.19	-.07	.03	.12
	15.0	-.01	-.11	-.22	-.33	-.43	-.25	-.16	-.06	.02	.10
	20.0	-.05	-.15	-.25	-.34	-.43	-.21	-.14	-.06	0	.09
	25.0	-.09	-.17	-.26	-.34	-.42	-.20	-.14	-.06	-.01	.06
	30.0	-.11	-.19	-.27	-.34	-.41	-.18	-.12	-.06	-.01	.05
	35.0	-.14	-.21	-.28	-.35	-.41	-.17	-.12	-.06	-.02	.05
	40.0	-.17	-.23	-.29	-.36	-.41	-.16	-.12	-.06	-.02	.03
	45.0	-.19	-.24	-.30	-.36	-.40	-.14	-.11	-.06	-.02	.03
	50.0	-.19	-.25	-.30	-.35	-.39	-.13	-.10	-.05	-.02	.02
	60.0	-.19	-.23	-.27	-.31	-.33	-.07	-.04	0	.01	.04
	70.0	-.16	-.19	-.20	-.23	-.25	-.01	-.01	.03	.05	.06
	80.0	-.11	-.13	-.14	-.16	-.26	.03	.04	.08	.08	.09
	90.0	0	-.05	-.01	-.03	-.03	.06	.07	.10	.09	.09
	95.0	.04	.04	.05	.04	.04	.08	.08	.11	.10	.09
0.555 b/2	0	-.23	.24	.42	.34	-.05	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.19	-.05	-.36	-.71	-1.18	-.48	-.10	.17	.34
	4.0	.22	.08	-.10	-.33	-.57	-.51	-.30	-.08	.09	.23
	7.0	.13	0	-.15	-.33	-.52	-.41	-.24	-.09	.05	.17
	10.0	.07	-.05	-.18	-.33	-.48	-.35	-.21	-.09	.03	.13
	15.0	.01	-.10	-.21	-.33	-.45	-.28	-.17	-.07	.01	.09
	20.0	-.05	-.14	-.24	-.35	-.45	-.24	-.15	-.07	0	.07
	25.0	-.07	-.16	-.25	-.34	-.43	-.22	-.15	-.07	-.01	.06
	30.0	-.10	-.18	-.27	-.35	-.42	-.19	-.13	-.07	-.01	.05
	35.0	-.13	-.20	-.28	-.35	-.42	-.18	-.13	-.07	-.02	.03
	40.0	-.16	-.23	-.30	-.36	-.42	-.16	-.12	-.07	-.02	.02
	45.0	-.18	-.24	-.30	-.36	-.41	-.15	-.11	-.06	-.02	.02
	50.0	-.19	-.24	-.30	-.35	-.39	-.13	-.10	-.06	-.02	.02
	60.0	-.18	-.22	-.26	-.29	-.32	-.07	-.05	-.01	0	.04
	70.0	-.15	-.18	-.21	-.23	-.25	-.02	0	.03	.05	.06
	80.0	-.10	-.13	-.14	-.15	-.16	.04	.05	.07	.08	.09
	90.0	-.01	-.02	-.02	-.03	-.03	.07	.07	.09	.09	.09
	95.0	.04	.04	.05	.04	.04	.09	.09	.10	.10	.10

NACA

TABLE V.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.707 b/2	0	-0.54	0.13	0.43	0.40	0.05	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.24	.02	-.29	-.67	-1.42	-0.59	-0.17	0.14	0.33
	4.0	.25	.11	-.07	-.30	-.56	-.62	-.38	-.13	.06	.22
	7.0	.15	.02	-.13	-.32	-.52	-.47	-.28	-.12	.03	.15
	10.0	.10	-.02	-.15	-.31	-.48	-.39	-.24	-.11	.01	.11
	15.0	.03	-.08	-.20	-.32	-.45	-.31	-.19	-.09	0	.08
	20.0	-.03	-.12	-.23	-.33	-.43	-.26	-.17	-.09	-.01	.06
	25.0	-.06	-.15	-.23	-.33	-.43	-.23	-.16	-.08	-.02	.04
	30.0	-.10	-.18	-.24	-.34	-.42	-.20	-.14	-.08	-.03	.02
	35.0	-.13	-.20	-.28	-.35	-.41	-.19	-.13	-.08	-.03	.01
	40.0	-.15	-.21	-.29	-.34	-.40	-.17	-.12	-.07	-.04	0
	45.0	-.17	-.23	-.30	-.35	-.40	-.14	-.11	-.06	-.03	0
	50.0	-.19	-.24	-.29	-.34	-.38	-.12	-.09	-.05	-.03	0
	60.0	-.17	-.21	-.26	-.28	-.31	-.06	-.04	-.02	-.01	.02
	70.0	-.15	-.17	-.19	-.22	-.24	0	.01	.03	.04	.04
	80.0	-.10	-.12	-.13	-.15	-.15	.03	.06	.07	.07	.07
	90.0	-.01	-.02	-.02	-.03	-.03	.08	.08	.09	.09	.08
	95.0	.04	.04	.04	.04	.04	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.56	.15	.44	.42	.07	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.27	.07	-.24	-.63	-1.58	-.68	-.23	.11	.32
	4.0	.26	.13	-.05	-.28	-.52	-.67	-.41	-.17	.04	.19
	7.0	.17	.04	-.11	-.29	-.48	-.50	-.30	-.14	.01	.13
	10.0	.11	0	-.14	-.29	-.45	-.40	-.26	-.12	-.01	.10
	15.0	.03	-.06	-.18	-.30	-.41	-.32	-.21	-.11	-.02	.06
	20.0	-.02	-.11	-.21	-.32	-.41	-.26	-.18	-.10	-.03	.04
	25.0	-.06	-.14	-.23	-.31	-.40	-.23	-.16	-.09	-.03	.02
	30.0	-.10	-.16	-.24	-.32	-.39	-.20	-.14	-.09	-.04	.01
	35.0	-.12	-.18	-.26	-.32	-.39	-.17	-.13	-.08	-.04	0
	40.0	-.15	-.21	-.27	-.33	-.38	-.15	-.11	-.08	-.05	-.01
	45.0	-.17	-.22	-.28	-.33	-.37	-.13	-.10	-.07	-.04	-.02
	50.0	-.18	-.22	-.27	-.32	-.35	-.10	-.07	-.05	-.04	-.01
	60.0	-.17	-.20	-.24	-.32	-.29	-.04	-.03	-.01	-.01	.01
	70.0	-.14	-.16	-.18	-.20	-.22	.01	.02	.03	.04	.03
	80.0	-.10	-.11	-.12	-.13	-.14	.06	.07	.08	.08	.07
	90.0	0	0	-.01	-.01	-.01	.09	.09	.10	.09	.08
	95.0	.05	.05	.05	.05	0	.10	.10	.11	.10	.09
0.924 b/2	0	-1.57	-.51	.18	.11	.35	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.27	.09	-.18	-.54	-1.70	-.77	-.31	.04	.27
	4.0	.25	.13	-.03	-.23	-.44	- - -	- - -	- - -	- - -	- - -
	7.0	.16	.04	-.09	-.25	-.43	-.50	-.33	-.18	-.03	.08
	10.0	.08	-.02	-.13	-.26	-.40	-.40	-.28	-.16	-.05	.04
	15.0	0	-.08	-.17	-.28	-.38	-.31	-.22	-.13	-.06	.01
	20.0	-.06	-.13	-.20	-.28	-.35	-.23	-.17	-.11	-.07	-.02
	25.0	-.09	-.15	-.21	-.28	-.34	-.19	-.15	-.10	-.06	-.03
	30.0	-.12	-.17	-.22	-.28	-.33	-.16	-.13	-.09	-.06	-.04
	35.0	-.13	-.18	-.23	-.28	-.33	-.14	-.11	-.08	-.06	-.05
	40.0	-.15	-.19	-.23	-.28	-.32	-.12	-.10	-.08	-.06	-.05
	45.0	-.16	-.20	-.24	-.28	-.32	-.10	-.08	-.06	-.06	-.05
	50.0	-.16	-.19	-.23	-.29	-.29	-.08	-.06	-.05	-.05	-.05
	60.0	- - -	- - -	- - -	- - -	- - -	-.03	-.02	-.02	-.02	-.03
	70.0	- - -	- - -	- - -	- - -	- - -	.02	.03	.03	.01	0
	80.0	-.18	-.08	-.09	-.11	-.13	.07	.08	.07	.06	.04
	90.0	0	.01	0	-.01	-.04	.09	.09	.09	.07	.05
	95.0	.05	.06	.06	.04	.02	.10	.11	.11	.09	.06

NACA

TABLE V.- CONTINUED

(b) α_u, 8°, 10°, 12°, 14°, 16°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.066 b/2	0	0.13	- - -	-0.66	-1.25	-1.98	- - -	- - -	- - -	- - -	- - -
	1.5	-.49	- - -	-1.02	-1.15	-1.47	0.36	- - -	0.50	0.54	0.54
	4.0	-.42	- - -	-.72	-.90	-1.10	.28	- - -	.42	.48	.53
	7.0	-.37	- - -	-.61	-.73	-.88	.21	- - -	.35	.42	.47
	10.0	-.36	- - -	-.59	-.67	-.79	.18	- - -	.32	.38	.44
	15.0	-.35	- - -	-.51	-.61	-.71	.16	- - -	.29	.34	.39
	20.0	-.36	- - -	-.50	-.59	-.68	.14	- - -	.26	.31	.36
	25.0	-.36	- - -	-.48	-.56	-.64	.12	- - -	.23	.28	.33
	30.0	-.37	- - -	-.47	-.55	-.63	.11	- - -	.22	.26	.31
	35.0	-.38	- - -	-.47	-.54	-.61	.09	- - -	.19	.24	.29
	40.0	-.40	- - -	-.48	-.54	-.61	.08	- - -	.18	.22	.27
	45.0	-.40	- - -	-.48	-.54	-.60	.07	- - -	.16	.21	.25
	50.0	-.39	- - -	-.46	-.52	-.57	.06	- - -	.15	.19	.23
	60.0	-.36	- - -	-.41	-.46	-.51	.08	- - -	.15	.19	.22
	70.0	-.29	- - -	-.33	-.37	-.41	.09	- - -	.15	.18	.21
	80.0	-.21	- - -	-.23	-.26	-.29	.11	- - -	.16	.19	.21
	90.0	-.06	- - -	-.08	-.09	-.11	.10	- - -	.14	.15	.17
	95.0	0	- - -	0	-.01	-.02	.09	- - -	.11	.13	.14
0.195 b/2	0	-.22	-0.80	-1.56	-2.54	-3.70	- - -	- - -	- - -	- - -	- - -
	1.5	-.75	-1.23	-1.36	-1.59	-2.61	.39	0.45	.60	.49	.46
	4.0	-.60	-.78	-1.00	-1.25	-1.58	.30	.38	.44	.50	.53
	7.0	-.52	-.67	-.83	-1.02	-1.24	.23	.31	.38	.44	.50
	10.0	-.47	-.60	-.79	-.89	-1.06	.20	.27	.34	.40	.46
	15.0	-.45	-.55	-.65	-.77	-.90	.16	.23	.30	.36	.41
	20.0	-.45	-.53	-.62	-.71	-.82	.14	.20	.26	.32	.37
	25.0	-.43	-.50	-.57	-.66	-.76	.12	.17	.23	.28	.34
	30.0	-.43	-.49	-.55	-.63	-.72	.11	.16	.21	.26	.31
	35.0	-.43	-.48	-.53	-.60	-.69	.09	.14	.19	.24	.30
	40.0	-.43	-.48	-.53	-.58	-.67	.08	.12	.18	.22	.26
	45.0	-.42	-.47	-.51	-.56	-.64	.07	.11	.16	.20	.25
	50.0	-.40	-.45	-.48	-.53	-.59	.06	.10	.14	.18	.22
	60.0	-.35	-.38	-.41	-.44	-.50	.08	.11	.15	.18	.21
	70.0	-.27	-.29	-.31	-.34	-.37	.09	.12	.15	.17	.20
	80.0	-.14	-.18	-.29	-.21	-.25	.11	.13	.16	.17	.20
	90.0	-.08	-.04	-.05	-.07	-.11	.10	.11	.13	.14	.16
	95.0	.03	.03	.02	0	-.04	.09	.10	.11	.12	.12
0.382 b/2	0	-.49	-1.28	-2.24	-2.43	-2.71	- - -	- - -	- - -	- - -	- - -
	1.5	-1.17	-1.23	-1.96	-1.94	-1.78	.42	.44	.43	.39	.34
	4.0	-.75	-1.02	-1.32	-1.69	-1.63	.32	.35	.45	.48	.49
	7.0	-.67	-.87	-1.08	-1.52	-1.52	.24	.33	.39	.44	.48
	10.0	-.59	-.75	-.93	-1.25	-1.36	.21	.29	.36	.41	.45
	15.0	-.55	-.67	-.81	-1.02	-1.24	.17	.24	.30	.36	.40
	20.0	-.53	-.63	-.78	-.89	-1.07	.14	.21	.27	.32	.37
	25.0	-.50	-.59	-.68	-.80	-.96	.12	.18	.23	.28	.33
	30.0	-.48	-.55	-.65	-.72	-.86	.10	.16	.21	.25	.30
	35.0	-.47	-.53	-.60	-.69	-.78	.09	.13	.19	.23	.27
	40.0	-.46	-.51	-.56	-.63	-.71	.08	.12	.17	.20	.25
	45.0	-.45	-.49	-.53	-.59	-.66	.07	.11	.15	.19	.23
	50.0	-.42	-.46	-.49	-.54	-.55	.06	.09	.14	.17	.20
	60.0	-.35	-.37	-.39	-.42	-.47	.07	.10	.13	.16	.19
	70.0	-.26	-.28	-.28	-.30	-.35	.08	.11	.12	.15	.17
	80.0	-.16	-.15	-.16	-.18	-.24	.10	.12	.14	.15	.16
	90.0	-.02	-.03	-.04	-.05	-.14	.10	.10	.11	.11	.12
	95.0	.03	.02	0	-.02	-.07	.09	.09	.09	.09	.08
0.555 b/2	0	-.73	-1.73	-2.36	-2.07	-2.29	- - -	- - -	- - -	- - -	- - -
	1.5	-1.28	-1.60	-2.29	-1.63	-1.87	.43	.44	.41	.37	.31
	4.0	-.83	-1.14	-1.76	-1.51	-1.73	.33	.40	.45	.47	.37
	7.0	-.71	-.94	-1.40	-1.44	-1.72	.26	.34	.40	.44	.48
	10.0	-.64	-.82	-1.09	-1.30	-1.60	.22	.29	.36	.40	.45
	15.0	-.58	-.71	-.85	-1.19	-1.39	.18	.24	.31	.35	.40
	20.0	-.54	-.71	-.73	-1.01	-1.38	.15	.21	.27	.31	.36
	25.0	-.52	-.61	-.69	-.90	-1.27	.12	.18	.23	.27	.32
	30.0	-.49	-.57	-.63	-.77	-1.07	.11	.16	.21	.24	.29
	35.0	-.49	-.55	-.59	-.69	-.93	.09	.13	.18	.22	.26
	40.0	-.47	-.52	-.56	-.63	-.80	.07	.11	.15	.19	.23
	45.0	-.45	-.49	-.52	-.57	-.69	.06	.10	.14	.17	.20
	50.0	-.42	-.46	-.48	-.52	-.61	.06	.09	.12	.15	.18
	60.0	-.34	-.36	-.37	-.41	-.44	.07	.09	.11	.14	.16
	70.0	-.25	-.25	-.25	-.30	-.34	.08	.09	.11	.12	.13
	80.0	-.15	-.14	-.13	-.20	-.23	.10	.11	.11	.12	.13
	90.0	-.02	-.04	-.04	-.10	-.16	.09	.09	.09	.09	.08
	95.0	.04	.01	0	-.05	-.11	.10	.09	.08	.07	.06

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TABLE V.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.707 b/2	0	-0.83	-1.96	-1.74	-1.75	-1.65	- - -	- - -	- - -	- - -	- - -
	1.5	-1.36	-1.49	-1.47	-1.41	-1.42	0.42	0.42	0.39	0.35	0.31
	4.0	-.84	-1.17	-1.36	-1.33	-1.38	.33	.40	.43	.44	.48
	7.0	-.74	-.98	-1.28	-1.28	-1.37	.25	.33	.38	.41	.46
	10.0	-.65	-.84	-1.11	-1.16	-1.30	.21	.28	.34	.37	.42
	15.0	-.59	-.73	-.96	-1.07	-1.26	.16	.23	.28	.32	.36
	20.0	-.55	-.67	-.82	-.93	-1.18	.13	.19	.24	.28	.32
	25.0	-.52	-.61	-.73	-.85	-1.15	.10	.16	.20	.24	.27
	30.0	-.49	-.58	-.66	-.75	-1.06	.08	.13	.17	.21	.23
	35.0	-.48	-.55	-.61	-.68	-1.02	.07	.11	.14	.17	.20
	40.0	-.46	-.51	-.56	-.61	-.93	.05	.09	.12	.15	.17
	45.0	-.44	-.48	-.51	-.55	-.87	.04	.08	.10	.13	.14
	50.0	-.41	-.44	-.46	-.49	-.79	.04	.06	.08	.11	.12
	60.0	-.33	-.34	-.36	-.39	-.65	.04	.06	.07	.09	.09
	70.0	-.24	-.24	-.26	-.29	-.53	.06	.06	.07	.07	.07
	80.0	-.14	-.13	-.16	-.22	-.42	.08	.08	.08	.07	.05
	90.0	-.02	-.02	-.07	-.15	-.33	.08	.07	.06	.04	-.01
	95.0	.04	.01	-.03	-.12	-.28	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.69	-1.80	-2.05	-2.07	-1.21	- - -	- - -	- - -	- - -	- - -
	1.5	-1.32	-1.89	-1.72	-1.60	-1.06	.42	.42	.38	.33	.36
	4.0	-.79	-1.11	-1.45	-1.38	-1.01	.31	.38	.41	.43	.46
	7.0	-.69	-.92	-1.33	-1.35	-1.00	.24	.32	.36	.40	.42
	10.0	-.62	-.81	-1.06	-1.14	-.95	.19	.26	.32	.36	.37
	15.0	-.56	-.70	-.87	-1.08	-.92	.14	.20	.26	.30	.31
	20.0	-.53	-.63	-.75	-.87	-.87	.10	.15	.21	.24	.26
	25.0	-.49	-.58	-.65	-.75	-.84	.08	.12	.16	.20	.22
	30.0	-.46	-.54	-.59	-.67	-.79	.05	.09	.12	.16	.17
	35.0	-.44	-.51	-.54	-.59	-.76	.04	.07	.10	.13	.14
	40.0	-.43	-.48	-.50	-.52	-.71	.02	.05	.07	.10	.11
	45.0	-.41	-.45	-.45	-.47	-.69	.01	.03	.05	.08	.08
	50.0	-.38	-.41	-.41	-.42	-.63	.01	.02	.04	.06	.06
	60.0	-.31	-.32	-.32	-.34	-.57	.02	.02	.03	.04	.03
	70.0	-.22	-.22	-.22	-.26	-.48	.03	.03	.03	.03	.01
	80.0	-.14	-.13	-.15	-.21	-.43	.06	.05	.04	.03	0
	90.0	-.02	-.03	-.08	-.16	-.37	.07	.04	.03	0	-.06
	95.0	.04	.01	-.05	-.13	-.35	.07	.04	.02	-.03	-.13
0.924 b/2	0	-.04	-.75	-1.03	-1.30	-.72	- - -	- - -	- - -	- - -	- - -
	1.5	-1.10	-1.68	-1.60	-1.54	-.81	.39	.40	.38	.33	.34
	4.0	-.69	-.97	-1.36	-1.31	-.81	- - -	- - -	- - -	- - -	- - -
	7.0	-.61	-.82	-1.24	-1.31	-.80	.18	.26	.30	.34	.32
	10.0	-.54	-.70	-.96	-1.10	-.78	.12	.18	.23	.27	.26
	15.0	-.48	-.60	-.75	-1.00	-.76	.07	.11	.15	.19	.19
	20.0	-.43	-.53	-.61	-.74	-.70	.02	.05	.07	.10	.11
	25.0	-.41	-.49	-.54	-.65	-.67	0	.03	.05	.07	.08
	30.0	-.39	-.46	-.50	-.55	-.60	-.02	-.01	0	.02	.03
	35.0	-.38	-.44	-.47	-.50	-.56	-.03	-.02	-.01	.01	.02
	40.0	-.36	-.42	-.44	-.47	-.52	-.05	-.04	-.04	-.02	-.02
	45.0	-.36	-.40	-.42	-.43	-.49	-.05	-.04	-.04	-.02	-.02
	50.0	-.33	-.38	-.38	-.42	-.46	-.05	-.06	-.06	-.04	-.04
	60.0	- - -	- - -	- - -	- - -	- - -	-.03	-.05	-.05	-.04	-.05
	70.0	- - -	- - -	- - -	- - -	- - -	-.02	-.05	-.05	-.05	-.06
	80.0	-.16	-.20	-.22	-.33	-.38	.01	-.01	-.02	-.02	-.05
	90.0	-.08	-.10	-.21	-.34	-.36	.02	-.01	-.03	-.04	-.09
	95.0	-.01	-.05	-.15	-.28	-.36	.04	0	-.04	-.08	-.15

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TABLE V.- CONTINUED

(c) α_u, 18°, 20°, 22°, 24°, 26°

Spanwise station	Percent chord	Upper surface Angle of attack 18°	20°	22°	24°	26°	Lower surface Angle of attack 18°	20°	22°	24°	26°
0.086 b/2	0	-2.77	- - -	- - -	-4.73	-5.13	- - -	- - -	- - -	- - -	- - -
	1.5	-1.85	- - -	- - -	-2.81	-2.71	0.53	- - -	- - -	0.48	0.47
	4.0	-1.29	- - -	- - -	-2.04	-2.25	.58	- - -	- - -	.67	.70
	7.0	-1.02	- - -	- - -	-1.61	-1.85	.53	- - -	- - -	.65	.68
	10.0	-.90	- - -	- - -	-1.33	-1.60	.49	- - -	- - -	.63	.66
	15.0	-.80	- - -	- - -	-1.09	-1.24	.45	- - -	- - -	.57	.60
	20.0	-.76	- - -	- - -	-1.01	-1.10	.41	- - -	- - -	.53	.57
	25.0	-.71	- - -	- - -	-.94	-.98	.38	- - -	- - -	.49	.47
	30.0	-.69	- - -	- - -	-.92	-.95	.36	- - -	- - -	.46	.49
	35.0	-.67	- - -	- - -	-.89	-.92	.34	- - -	- - -	.43	.46
	40.0	-.66	- - -	- - -	-.89	-.92	.31	- - -	- - -	.40	.43
	45.0	-.64	- - -	- - -	-.88	-.92	.29	- - -	- - -	.38	.40
	50.0	-.62	- - -	- - -	-.86	-.90	.27	- - -	- - -	.35	.42
	60.0	-.55	- - -	- - -	-.83	-.88	.26	- - -	- - -	.32	.34
	70.0	-.45	- - -	- - -	-.75	-.84	.24	- - -	- - -	.28	.29
	80.0	-.33	- - -	- - -	-.63	-.74	.23	- - -	- - -	.25	.27
	90.0	-.13	- - -	- - -	-.40	-.53	.18	- - -	- - -	.16	.14
	95.0	-.04	- - -	- - -	-.27	-.39	.14	- - -	- - -	.08	.04
0.195 b/2	0	-4.74	- - -	-3.63	-2.24	-1.74	- - -	- - -	- - -	- - -	- - -
	1.5	-2.77	- - -	-3.11	-2.14	-1.69	.42	- - -	0.39	.43	.45
	4.0	-1.85	- - -	-2.87	-1.95	-1.57	.56	- - -	.62	.65	.67
	7.0	-1.46	- - -	-2.64	-1.93	-1.54	.55	- - -	.64	.66	.68
	10.0	-1.23	- - -	-2.32	-1.83	-1.47	.52	- - -	.60	.63	.66
	15.0	-1.03	- - -	-1.77	-1.71	-1.42	.47	- - -	.56	.59	.62
	20.0	-.91	- - -	-1.50	-1.65	-1.34	.43	- - -	.51	.54	.56
	25.0	-.83	- - -	-1.15	-1.43	-1.27	.39	- - -	.47	.50	.53
	30.0	-.76	- - -	-1.05	-1.30	-1.20	.37	- - -	.44	.47	.49
	35.0	-.71	- - -	-.90	-1.19	-1.15	.34	- - -	.41	.43	.45
	40.0	-.69	- - -	-.87	-1.13	-1.11	.31	- - -	.38	.40	.42
	45.0	-.66	- - -	-.81	-1.05	-1.06	.29	- - -	.35	.37	.39
	50.0	-.61	- - -	-.79	-1.01	-1.04	.26	- - -	.31	.33	.35
	60.0	-.51	- - -	-.71	-.90	-.98	.25	- - -	.29	.30	.30
	70.0	-.40	- - -	-.62	-.82	-.92	.23	- - -	.25	.25	.25
	80.0	-.27	- - -	-.49	-.68	-.81	.21	- - -	.22	.21	.19
	90.0	-.11	- - -	-.31	-.51	-.68	.16	- - -	.13	.10	.06
	95.0	-.05	- - -	-.22	-.40	-.59	.12	- - -	.07	0	-.07
0.382 b/2	0	-2.98	- - -	-1.49	-1.27	-1.14	- - -	- - -	- - -	- - -	- - -
	1.5	-2.26	- - -	-1.40	-1.22	-1.11	.28	- - -	.33	.32	.31
	4.0	-2.16	- - -	-1.36	-1.19	-1.09	.53	- - -	.56	.56	.56
	7.0	-2.13	- - -	-1.35	-1.18	-1.09	.54	- - -	.57	.59	.60
	10.0	-2.03	- - -	-1.31	-1.16	-1.07	.51	- - -	.55	.57	.56
	15.0	-1.98	- - -	-1.29	-1.15	-1.07	.46	- - -	.51	.53	.55
	20.0	-1.72	- - -	-1.24	-1.11	-1.05	.42	- - -	.46	.50	.50
	25.0	-1.40	- - -	-1.24	-1.11	-1.04	.38	- - -	.42	.45	.47
	30.0	-1.16	- - -	-1.20	-1.08	-1.02	.35	- - -	.39	.41	.43
	35.0	-.91	- - -	-1.18	-1.07	-1.02	.32	- - -	.36	.38	.40
	40.0	-.81	- - -	-1.14	-1.05	-1.00	.28	- - -	.32	.34	.35
	45.0	-.68	- - -	-1.11	-1.04	-.99	.26	- - -	.30	.31	.32
	50.0	-.64	- - -	-1.07	-1.02	-.98	.21	- - -	.26	.27	.28
	60.0	-.50	- - -	-1.00	-.98	-.95	.20	- - -	.22	.23	.27
	70.0	-.40	- - -	-.91	-.92	-.92	.18	- - -	.17	.17	.15
	80.0	-.27	- - -	-.77	-.85	-.87	.17	- - -	.13	.11	.09
	90.0	-.14	- - -	-.65	-.76	-.79	.11	- - -	.01	-.04	-.07
	95.0	-.08	- - -	-.58	-.72	-.76	.07	- - -	-.09	-.18	-.22
0.555 b/2	0	-1.54	- - -	-1.09	-1.04	-1.00	- - -	- - -	- - -	- - -	- - -
	1.5	-1.55	- - -	-1.05	-1.00	-.96	.34	- - -	.32	.30	.27
	4.0	-1.39	- - -	-1.03	-.98	-.95	.52	- - -	.52	.53	.52
	7.0	-1.38	- - -	-1.02	-.98	-.94	.52	- - -	.53	.54	.55
	10.0	-1.31	- - -	-1.00	-.96	-.93	.48	- - -	.51	.52	.53
	15.0	-1.28	- - -	-.99	-.95	-.92	.43	- - -	.46	.48	.50
	20.0	-1.20	- - -	-.97	-.92	-.90	.39	- - -	.42	.44	.46
	25.0	-1.18	- - -	-.96	-.92	-.89	.34	- - -	.38	.40	.41
	30.0	-1.12	- - -	-.94	-.90	-.87	.31	- - -	.34	.36	.38
	35.0	-1.10	- - -	-.93	-.90	-.87	.28	- - -	.31	.32	.34
	40.0	-1.04	- - -	-.91	-.87	-.86	.24	- - -	.26	.28	.31
	45.0	-1.00	- - -	-.90	-.87	-.85	.22	- - -	.23	.25	.26
	50.0	-.95	- - -	-.89	-.86	-.84	.19	- - -	.20	.21	.22
	60.0	-.85	- - -	-.87	-.84	-.83	.16	- - -	.15	.16	.15
	70.0	-.74	- - -	-.80	-.80	-.80	.12	- - -	.09	.09	.09
	80.0	-.62	- - -	-.76	-.74	-.74	.10	- - -	.03	.03	.03
	90.0	-.51	- - -	-.70	-.68	-.68	.01	- - -	-.10	-.11	-.10
	95.0	-.44	- - -	-.65	-.65	-.65	-.05	- - -	-.21	-.22	-.22

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[redacted]

TABLE V.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	26°	Lower surface, Angle of attack 18°	20°	22°	24°	26°
0.707 b/2	0	-0.98	- - -	-0.85	-0.81	-0.78	- - -	- - -	- - -	- - -	- - -
	1.5	-.92	- - -	-.83	-.80	-.56	0.36	- - -	0.31	0.29	0.26
	4.0	-.90	- - -	-.80	-.78	-.75	.49	- - -	.48	.49	.49
	7.0	-.89	- - -	-.80	-.77	-.74	.46	- - -	.48	.50	.50
	10.0	-.87	- - -	-.80	-.76	-.72	.42	- - -	.45	.47	.48
	15.0	-.85	- - -	-.77	-.75	-.71	.37	- - -	.40	.42	.44
	20.0	-.82	- - -	-.75	-.71	-.69	.33	- - -	.36	.38	.39
	25.0	-.81	- - -	-.74	-.71	-.69	.28	- - -	.31	.33	.36
	30.0	-.78	- - -	-.72	-.69	-.67	.24	- - -	.26	.28	.30
	35.0	-.77	- - -	-.71	-.68	-.67	.21	- - -	.23	.24	.26
	40.0	-.76	- - -	-.71	-.67	-.67	.17	- - -	.18	.20	.22
	45.0	-.75	- - -	-.70	-.68	-.67	.14	- - -	.15	.17	.18
	50.0	-.72	- - -	-.69	-.67	-.67	.11	- - -	.12	.13	.14
	60.0	-.69	- - -	-.68	-.67	-.67	.07	- - -	.07	.07	.08
	70.0	-.64	- - -	-.65	-.64	-.64	.03	- - -	.01	.02	.02
	80.0	-.60	- - -	-.62	-.61	-.62	-.01	- - -	-.03	-.03	-.02
	90.0	-.53	- - -	-.45	-.56	-.57	-.10	- - -	-.12	-.12	-.13
	95.0	-.51	- - -	-.53	-.54	-.55	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.80	- - -	-.68	-.65	-.64	- - -	- - -	- - -	- - -	- - -
	1.5	-.75	- - -	-.67	-.65	-.63	.38	- - -	.34	.31	.28
	4.0	-.74	- - -	-.65	-.63	-.62	.46	- - -	.46	.46	.46
	7.0	-.73	- - -	-.65	-.62	-.62	.43	- - -	.45	.45	.46
	10.0	-.71	- - -	-.62	-.61	-.60	.38	- - -	.41	.42	.43
	15.0	-.70	- - -	-.61	-.60	-.60	.32	- - -	.35	.37	.38
	20.0	-.67	- - -	-.59	-.58	-.59	.27	- - -	.30	.31	.33
	25.0	-.66	- - -	-.58	-.57	-.58	.22	- - -	.26	.27	.28
	30.0	-.64	- - -	-.56	-.56	-.57	.17	- - -	.20	.21	.23
	35.0	-.63	- - -	-.56	-.56	-.58	.14	- - -	.17	.18	.19
	40.0	-.61	- - -	-.55	-.55	-.57	.10	- - -	.12	.13	.14
	45.0	-.60	- - -	-.55	-.56	-.58	.07	- - -	.09	.10	.11
	50.0	-.57	- - -	-.54	-.55	-.57	.05	- - -	.06	.06	.07
	60.0	-.54	- - -	-.55	-.56	-.57	.01	- - -	.01	.01	.02
	70.0	-.50	- - -	-.53	-.54	-.55	-.02	- - -	-.03	-.03	-.03
	80.0	-.49	- - -	-.51	-.52	-.53	-.04	- - -	-.05	-.06	-.05
	90.0	-.45	- - -	-.47	-.48	-.49	-.11	- - -	-.13	-.14	-.14
	95.0	-.44	- - -	-.45	-.46	-.47	-.19	- - -	-.21	-.22	-.22
0.924 b/2	0	-.59	- - -	-.57	-.60	-.65	- - -	- - -	- - -	- - -	- - -
	1.5	-.60	- - -	-.51	-.51	-.63	.35	- - -	.33	.30	.27
	4.0	-.64	- - -	-.49	-.50	-.52	- - -	- - -	- - -	- - -	- - -
	7.0	-.64	- - -	-.49	-.50	-.53	.34	- - -	.37	.37	.38
	10.0	-.64	- - -	-.48	-.49	-.52	.28	- - -	.31	.32	.32
	15.0	-.63	- - -	-.48	-.49	-.52	.20	- - -	.24	.25	.26
	20.0	-.60	- - -	-.46	-.48	-.51	.12	- - -	.15	.16	.17
	25.0	-.57	- - -	-.46	-.48	-.52	.09	- - -	.12	.13	.14
	30.0	-.53	- - -	-.44	-.47	-.51	.04	- - -	.06	.06	.07
	35.0	-.50	- - -	-.44	-.47	-.51	.02	- - -	.04	.04	.05
	40.0	-.45	- - -	-.42	-.46	-.51	-.01	- - -	0	0	0
	45.0	-.44	- - -	-.42	-.46	-.51	-.02	- - -	-.01	-.01	-.01
	50.0	-.40	- - -	-.41	-.45	-.50	-.04	- - -	-.04	-.05	-.05
	60.0	- - -	- - -	- - -	- - -	- - -	-.05	- - -	-.06	-.06	-.07
	70.0	- - -	- - -	- - -	- - -	- - -	-.07	- - -	-.09	-.10	-.10
	80.0	-.37	- - -	-.40	-.43	-.45	-.06	- - -	-.08	-.09	-.09
	90.0	-.35	- - -	-.38	-.39	-.41	-.10	- - -	-.13	-.14	-.14
	95.0	-.35	- - -	-.37	-.39	-.40	-.16	- - -	-.18	-.19	-.20

NACA

TABLE VI.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.60; R, 4,000,000

(a) α_u, -2°, 0°, 2°, 4°, 6°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.086 b/2	0	0.26	0.41	0.49	0.49	0.41	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.23	.10	-.05	-.23	-0.50	-0.25	-0.05	0.11	0.24
	4.0	.19	.10	-.01	-.13	-.26	-.26	-.15	-.03	.09	.18
	7.0	.12	.04	-.06	-.15	-.26	-.23	-.12	-.03	.07	.14
	10.0	.08	0	-.09	-.17	-.26	-.21	-.12	-.04	.05	.11
	15.0	.03	-.05	-.12	-.19	-.28	-.17	-.10	-.03	.04	.10
	20.0	-.02	-.09	-.16	-.23	-.30	-.17	-.10	-.04	.03	.08
	25.0	-.05	-.11	-.17	-.23	-.31	-.17	-.11	-.05	.01	.06
	30.0	-.08	-.14	-.20	-.26	-.33	-.17	-.11	-.05	.01	.06
	35.0	-.11	-.17	-.23	-.28	-.34	-.17	-.11	-.06	0	.04
	40.0	-.14	-.20	-.26	-.31	-.37	-.17	-.12	-.07	-.01	.03
	45.0	-.17	-.22	-.28	-.33	-.38	-.17	-.12	-.07	-.02	.03
	50.0	-.19	-.24	-.29	-.33	-.38	-.16	-.11	-.07	-.02	.02
	60.0	-.20	-.25	-.29	-.33	-.37	-.11	-.08	-.04	.01	.04
	70.0	-.19	-.22	-.26	-.28	-.31	-.06	-.03	0	.04	.06
	80.0	-.15	-.17	-.20	-.19	-.23	0	.02	.04	.07	.09
	90.0	-.03	-.05	-.05	-.06	-.07	.04	.04	.06	.08	.08
	95.0	.02	.01	.01	.02	0	.05	.05	.06	.07	.08
0.195 b/2	0	.09	.33	.44	.42	.24	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.20	.03	-.18	-.42	-.75	-.34	-.09	.11	.26
	4.0	.19	.07	-.06	-.22	-.39	-.36	-.23	-.07	.07	.19
	7.0	.11	0	-.12	-.24	-.38	-.30	-.17	-.07	.04	.14
	10.0	.06	-.04	-.14	-.25	-.37	-.27	-.17	-.07	.02	.10
	15.0	0	-.09	-.18	-.27	-.37	-.22	-.14	-.07	.01	.09
	20.0	-.05	-.14	-.22	-.31	-.39	-.21	-.14	-.07	0	.07
	25.0	-.07	-.16	-.23	-.31	-.39	-.20	-.14	-.07	-.01	.05
	30.0	-.11	-.18	-.26	-.33	-.40	-.19	-.13	-.07	-.01	.04
	35.0	-.14	-.21	-.28	-.34	-.41	-.18	-.13	-.07	-.02	.04
	40.0	-.17	-.23	-.30	-.36	-.42	-.18	-.13	-.07	-.03	.02
	45.0	-.20	-.25	-.32	-.37	-.42	-.16	-.12	-.07	-.03	.02
	50.0	-.21	-.26	-.32	-.37	-.41	-.15	-.12	-.07	-.03	.01
	60.0	-.21	-.25	-.30	-.34	-.37	-.09	-.08	-.02	0	.04
	70.0	-.18	-.21	-.26	-.26	-.29	-.04	-.02	.01	.04	.06
	80.0	-.13	-.15	-.16	-.18	-.19	.02	.03	.06	.08	.09
	90.0	-.02	-.03	-.03	-.03	-.04	.05	.05	.07	.08	.09
	95.0	.04	.03	.03	.03	.03	.07	.07	.09	.09	.09
0.382 b/2	0	-.09	.27	.42	.39	.13	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.20	0	-.26	-.57	-1.07	-.45	-.12	.13	.30
	4.0	.20	.06	-.10	-.31	-.53	-.47	-.28	-.08	.08	.21
	7.0	.11	-.02	-.17	-.33	-.51	-.39	-.23	-.09	.04	.14
	10.0	.06	-.06	-.18	-.32	-.47	-.33	-.20	-.07	.02	.12
	15.0	-.01	-.12	-.23	-.34	-.45	-.27	-.18	-.07	.01	.09
	20.0	-.07	-.16	-.26	-.36	-.46	-.24	-.16	-.07	0	.07
	25.0	-.10	-.18	-.28	-.37	-.45	-.22	-.15	-.07	-.01	.05
	30.0	-.13	-.20	-.29	-.37	-.44	-.22	-.14	-.07	-.01	.05
	35.0	-.16	-.23	-.31	-.38	-.44	-.18	-.13	-.07	-.02	.04
	40.0	-.18	-.25	-.32	-.39	-.44	-.18	-.13	-.07	-.03	.02
	45.0	-.20	-.27	-.34	-.39	-.44	-.16	-.12	-.07	-.03	.02
	50.0	-.21	-.27	-.33	-.38	-.42	-.15	-.11	-.07	-.03	.01
	60.0	-.20	-.25	-.30	-.34	-.36	-.07	-.05	-.01	.01	.04
	70.0	-.17	-.20	-.23	-.25	-.27	-.03	-.01	.02	.05	.06
	80.0	-.12	-.14	-.16	-.17	-.17	.03	.04	.07	.09	.09
	90.0	-.01	-.02	-.02	-.03	-.03	.06	.07	.09	.10	.09
	95.0	.05	.04	.04	.04	.04	.08	.08	.10	.11	.09
0.555 b/2	0	-.17	.24	.43	.36	.02	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.19	-.04	-.35	-.70	-1.28	-.52	-.12	.16	.36
	4.0	.22	.09	-.09	-.33	-.58	- - -	- - -	- - -	- - -	- - -
	7.0	.13	0	-.16	-.35	-.54	-.45	-.26	-.09	.04	.16
	10.0	.07	-.05	-.18	-.34	-.51	-.38	-.23	-.09	.02	.13
	15.0	0	-.10	-.22	-.35	-.47	-.30	-.19	-.09	.01	.09
	20.0	-.05	-.15	-.26	-.37	-.47	-.26	-.16	-.09	0	.07
	25.0	-.09	-.17	-.27	-.37	-.46	-.24	-.16	-.09	-.01	.06
	30.0	-.12	-.19	-.28	-.37	-.45	-.21	-.14	-.08	-.01	.05
	35.0	-.15	-.22	-.31	-.38	-.45	-.20	-.14	-.08	-.02	.03
	40.0	-.18	-.24	-.32	-.39	-.45	-.18	-.13	-.08	-.03	.02
	45.0	-.20	-.26	-.32	-.39	-.44	-.16	-.12	-.07	-.03	.01
	50.0	-.21	-.26	-.32	-.38	-.42	-.14	-.10	-.06	-.02	.01
	60.0	-.20	-.23	-.27	-.32	-.34	-.08	-.05	-.01	.01	.04
	70.0	-.17	-.19	-.22	-.24	-.26	-.02	0	.03	.05	.06
	80.0	-.12	-.13	-.15	-.16	-.16	.03	.05	.07	.09	.09
	90.0	-.01	-.01	-.01	-.02	-.02	.07	.08	.09	.10	.09
	95.0	.04	.05	.05	.05	.05	.09	.10	.11	.11	.10

NACA

TABLE VI.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.707 b/2	0	-0.40	0.14	0.45	0.41	0.01	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.25	.03	-.29	-.68	-1.35	-0.71	-0.19	0.13	0.33
	4.0	.26	.12	-.07	-.31	-.58	-.71	-.40	-.15	.06	.21
	7.0	.16	.03	-.14	-.34	-.55	-.52	-.30	-.13	.03	.15
	10.0	.10	-.01	-.16	-.33	-.51	-.43	-.26	-.12	.01	.11
	15.0	.03	-.08	-.21	-.35	-.48	-.34	-.21	-.09	0	.08
	20.0	-.03	-.13	-.24	-.36	-.47	-.28	-.18	-.09	-.01	.06
	25.0	-.07	-.16	-.26	-.36	-.46	-.25	-.17	-.09	-.02	.04
	30.0	-.10	-.19	-.28	-.37	-.45	-.22	-.15	-.09	-.03	.03
	35.0	-.14	-.21	-.30	-.37	-.45	-.20	-.14	-.09	-.03	.01
	40.0	-.17	-.23	-.31	-.37	-.45	-.18	-.13	-.08	-.04	.01
	45.0	-.19	-.24	-.32	-.37	-.43	-.16	-.10	-.07	-.03	0
	50.0	-.21	-.25	-.32	-.37	-.40	-.13	-.10	-.06	-.03	0
	60.0	-.19	-.22	-.26	-.30	-.33	-.07	-.04	-.01	0	.02
	70.0	-.16	-.18	-.21	-.23	-.24	-.01	.01	.03	.05	.04
	80.0	-.10	-.12	-.14	-.15	-.15	.05	.07	.07	.08	.07
	90.0	-.01	-.01	-.01	-.01	-.01	.08	.09	.10	.10	.09
	95.0	.05	.05	.05	.05	.05	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.27	.17	.45	.43	.10	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.28	.07	-.24	-.64	-1.10	-.79	-.25	.10	.31
	4.0	.26	.14	-.05	-.29	-.56	-.80	-.44	-.19	.03	.19
	7.0	.17	.04	-.12	-.31	-.52	-.66	-.33	-.15	.01	.13
	10.0	.11	0	-.15	-.31	-.48	-.48	-.28	-.13	-.01	.10
	15.0	.03	-.07	-.19	-.32	-.45	-.38	-.23	-.12	-.02	.06
	20.0	-.03	-.12	-.23	-.34	-.45	-.30	-.20	-.11	-.03	.03
	25.0	-.06	-.15	-.25	-.34	-.43	-.26	-.18	-.10	-.04	.02
	30.0	-.11	-.18	-.27	-.35	-.42	-.22	-.16	-.10	-.05	0
	35.0	-.14	-.21	-.29	-.35	-.42	-.19	-.14	-.09	-.05	-.01
	40.0	-.17	-.23	-.29	-.35	-.41	-.16	-.13	-.08	-.05	-.02
	45.0	-.19	-.24	-.30	-.35	-.40	-.14	-.11	-.07	-.05	-.03
	50.0	-.20	-.25	-.30	-.34	-.38	-.10	-.08	-.06	-.04	-.02
	60.0	-.18	-.22	-.25	-.28	-.30	-.04	-.03	-.01	-.02	0
	70.0	-.15	-.17	-.19	-.21	-.22	.01	.02	.03	.04	.03
	80.0	-.10	-.11	-.13	-.13	-.14	.06	.07	.08	.08	.07
	90.0	0	0	0	0	-.01	.09	.10	.10	.10	.08
	95.0	.05	.06	.06	.06	.05	.10	.11	.11	.11	.09
0.924 b/2	0	-.95	-.49	.18	.41	.35	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.29	.09	-.19	-.56	-1.07	-.89	-.33	.04	.27
	4.0	.23	.14	-.03	-.25	-.48	- - -	- - -	- - -	- - -	- - -
	7.0	.15	.05	-.10	-.28	-.46	-.75	-.35	-.19	-.04	.08
	10.0	.08	-.02	-.15	-.29	-.43	-.59	-.30	-.18	-.06	.04
	15.0	0	-.09	-.19	-.30	-.41	-.38	-.23	-.14	-.07	0
	20.0	-.07	-.14	-.22	-.30	-.38	-.27	-.18	-.12	-.08	-.03
	25.0	-.10	-.17	-.23	-.30	-.37	-.22	-.15	-.10	-.07	-.04
	30.0	-.14	-.18	-.24	-.30	-.36	-.18	-.13	-.09	-.07	-.05
	35.0	-.15	-.20	-.25	-.31	-.35	-.15	-.11	-.09	-.07	-.05
	40.0	-.17	-.20	-.25	-.30	-.35	-.13	-.10	-.08	-.07	-.06
	45.0	-.17	-.21	-.26	-.30	-.34	-.11	-.08	-.07	-.06	-.06
	50.0	-.17	-.20	-.23	-.28	-.31	-.09	-.06	-.05	-.05	-.06
	60.0	- - -	- - -	- - -	- - -	- - -	-.04	-.02	-.01	-.02	-.03
	70.0	- - -	- - -	- - -	- - -	- - -	.01	.03	.03	.01	0
	80.0	-.07	-.08	-.09	-.11	-.13	.06	.08	.08	.06	.04
	90.0	.01	.02	.01	-.01	-.05	.08	.10	.09	.07	.05
	95.0	.06	.07	.07	.05	.01	.09	.12	.11	.09	.06

TABLE VI.- CONTINUED

(b) α_u, 8°, 10°, 12°, 14°, 16°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.086 b/2	0	0.22	-0.05	-0.43	-0.86	-1.25	- - -	- - -	- - -	- - -	- - -
	1.5	-.45	-.69	-1.09	-1.41	-1.93	0.36	0.45	0.51	0.56	0.59
	4.0	-.39	-.54	-.71	-.89	-1.10	.28	.36	.43	.49	.56
	7.0	-.36	-.47	-.61	-.75	-.86	.21	.29	.36	.43	.49
	10.0	-.36	-.45	-.57	-.69	-.79	.19	.26	.33	.39	.45
	15.0	-.35	-.44	-.54	-.64	-.73	.17	.23	.29	.35	.41
	20.0	-.37	-.45	-.54	-.64	-.70	.15	.21	.26	.32	.37
	25.0	-.37	-.44	-.53	-.61	-.67	.12	.18	.23	.29	.34
	30.0	-.39	-.45	-.53	-.61	-.66	.11	.16	.22	.26	.32
	35.0	-.40	-.47	-.54	-.61	-.65	.10	.15	.20	.25	.30
	40.0	-.42	-.48	-.54	-.62	-.65	.08	.13	.18	.23	.27
	45.0	-.43	-.48	-.55	-.61	-.64	.07	.12	.17	.21	.25
	50.0	-.43	-.47	-.53	-.59	-.62	.06	.11	.15	.20	.23
	60.0	-.40	-.44	-.48	-.53	-.56	.06	.11	.15	.19	.22
	70.0	-.33	-.35	-.39	-.43	-.46	.10	.13	.15	.18	.21
	80.0	-.24	-.25	-.28	-.30	-.33	.11	.14	.17	.19	.21
	90.0	-.08	-.08	-.09	-.11	-.14	.10	.12	.14	.15	.17
	95.0	0	-.01	-.02	-.03	-.05	.09	.10	.11	.12	.13
0.195 b/2	0	-.10	-.55	-1.13	-1.89	-2.21	- - -	- - -	- - -	- - -	- - -
	1.5	-.72	-1.18	-1.81	-2.00	-2.05	.38	.46	.51	.54	.54
	4.0	-.60	-.77	-1.01	-1.79	-2.01	.29	.38	.45	.51	.55
	7.0	-.51	-.67	-.86	-1.18	-2.01	.23	.31	.38	.45	.51
	10.0	-.49	-.61	-.77	-.93	-1.59	.19	.27	.34	.41	.47
	15.0	-.47	-.57	-.70	-.80	-.87	.16	.23	.30	.36	.42
	20.0	-.47	-.56	-.67	-.76	-.73	.13	.20	.26	.33	.38
	25.0	-.46	-.53	-.63	-.71	-.71	.11	.18	.23	.29	.34
	30.0	-.46	-.53	-.61	-.69	-.68	.10	.16	.21	.27	.32
	35.0	-.46	-.52	-.60	-.66	-.67	.08	.14	.19	.25	.29
	40.0	-.46	-.52	-.59	-.64	-.65	.07	.12	.17	.22	.26
	45.0	-.46	-.51	-.57	-.62	-.63	.06	.11	.16	.21	.24
	50.0	-.45	-.49	-.54	-.58	-.60	.05	.10	.14	.19	.22
	60.0	-.39	-.42	-.46	-.49	-.52	.07	.11	.15	.18	.21
	70.0	-.31	-.32	-.34	-.36	-.41	.09	.12	.15	.18	.20
	80.0	-.19	-.20	-.21	-.23	-.26	.11	.13	.16	.18	.19
	90.0	-.04	-.04	-.07	-.08	-.09	.10	.12	.13	.14	.14
	95.0	.02	.02	0	-.01	-.03	.08	.09	.10	.11	.10
0.382 b/2	0	-.34	-.88	-1.38	-1.82	-2.06	- - -	- - -	- - -	- - -	- - -
	1.5	-1.17	-1.74	-1.82	-1.80	-1.77	.43	.45	.47	.47	.45
	4.0	-.76	-1.04	-1.80	-1.79	-1.75	.31	.39	.45	.50	.53
	7.0	-.69	-.87	-1.58	-1.81	-1.76	.24	.33	.39	.45	.50
	10.0	-.62	-.77	-1.35	-1.81	-1.75	.20	.27	.35	.41	.46
	15.0	-.58	-.71	-.88	-1.74	-1.76	.16	.24	.30	.36	.41
	20.0	-.57	-.67	-.73	-1.49	-1.68	.14	.21	.27	.32	.37
	25.0	-.54	-.63	-.69	-1.09	-1.59	.11	.18	.23	.29	.33
	30.0	-.52	-.59	-.65	-.89	-1.41	.10	.16	.21	.26	.30
	35.0	-.52	-.57	-.62	-.49	-1.15	.09	.14	.19	.24	.27
	40.0	-.50	-.55	-.59	-.48	-.98	.07	.12	.16	.21	.24
	45.0	-.49	-.53	-.56	-.50	-.78	.06	.11	.15	.19	.22
	50.0	-.46	-.49	-.52	-.48	-.73	.05	.09	.13	.17	.19
	60.0	-.39	-.40	-.41	-.42	-.52	.07	.10	.13	.16	.18
	70.0	-.28	-.28	-.29	-.32	-.43	.08	.11	.13	.15	.16
	80.0	-.16	-.16	-.16	-.19	-.31	.10	.12	.14	.15	.15
	90.0	-.03	-.03	-.03	-.04	-.16	.09	.10	.11	.12	.10
	95.0	.02	.01	.01	.02	-.07	.09	.09	.09	.10	.07
0.555 b/2	0	-.55	-1.11	-1.45	-1.67	-1.41	- - -	- - -	- - -	- - -	- - -
	1.5	-1.44	-1.83	-1.56	-1.44	-1.19	.43	.45	.46	.45	.44
	4.0	-.85	-1.57	-1.54	-1.40	-1.14	- - -	- - -	- - -	- - -	- - -
	7.0	-.75	-1.11	-1.55	-1.40	-1.14	.26	.34	.40	.45	.48
	10.0	-.68	-.88	-1.54	-1.36	-1.10	.22	.29	.35	.40	.44
	15.0	-.61	-.74	-1.49	-1.37	-1.07	.18	.24	.30	.35	.39
	20.0	-.59	-.69	-1.32	-1.33	-1.02	.15	.21	.27	.31	.35
	25.0	-.56	-.64	-1.07	-1.33	-1.00	.13	.18	.23	.27	.30
	30.0	-.54	-.60	-.84	-1.25	-.96	.11	.16	.20	.24	.27
	35.0	-.52	-.58	-.60	-1.20	-.95	.09	.13	.18	.22	.24
	40.0	-.50	-.55	-.52	-1.11	-.91	.07	.11	.15	.19	.21
	45.0	-.48	-.52	-.45	-1.03	-.90	.06	.10	.13	.17	.18
	50.0	-.45	-.47	-.43	-.93	-.86	.05	.09	.12	.15	.16
	60.0	-.36	-.37	-.35	-.72	-.81	.06	.09	.12	.13	.14
	70.0	-.25	-.25	-.26	-.55	-.73	.07	.09	.11	.12	.11
	80.0	-.11	-.13	-.15	-.37	-.64	.10	.11	.12	.12	.08
	90.0	-.01	-.03	-.03	-.24	-.55	.09	.09	.11	.08	0
	95.0	.03	.01	-.02	-.13	-.49	.09	.08	.10	.07	-.07

TABLE VI.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.707 b/2	0	-0.66	-1.18	-1.24	-1.17	-1.00	- - -	- - -	- - -	- - -	- - -
	1.5	-1.45	-1.62	-1.18	-.99	-.84	0.43	0.44	0.44	0.44	0.43
	4.0	-.87	-1.39	-1.13	-.95	-.82	.33	.39	.43	.46	.48
	7.0	-.78	-1.23	-1.12	-.94	-.82	.26	.33	.37	.41	.44
	10.0	-.69	-.96	-1.08	-.91	-.80	.21	.28	.33	.37	.39
	15.0	-.63	-.80	-1.05	-.89	-.79	.17	.23	.28	.32	.34
	20.0	-.59	-.70	-.99	-.84	-.77	.13	.19	.23	.27	.29
	25.0	-.56	-.65	-.96	-.82	-.75	.11	.16	.20	.23	.25
	30.0	-.53	-.60	-.88	-.77	-.72	.09	.13	.17	.19	.21
	35.0	-.51	-.57	-.83	-.75	-.71	.07	.11	.14	.16	.18
	40.0	-.49	-.53	-.74	-.71	-.68	.05	.08	.11	.13	.14
	45.0	-.47	-.49	-.68	-.70	-.67	.04	.07	.10	.11	.12
	50.0	-.43	-.45	-.60	-.67	-.65	.03	.06	.08	.09	.08
	60.0	-.33	-.34	-.48	-.63	-.62	.04	.05	.07	-.06	.05
	70.0	-.23	-.23	-.37	-.58	-.58	.05	.06	.07	.03	.01
	80.0	-.13	-.13	-.27	-.53	-.55	.08	.08	.07	.01	-.02
	90.0	-.01	-.04	-.17	-.47	-.50	.08	.07	.05	-.07	-.10
	95.0	.03	.01	-.12	-.45	-.47	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.57	-1.13	-1.07	-.93	-.86	- - -	- - -	- - -	- - -	- - -
	1.5	-1.41	-1.53	-1.04	-.78	-.71	.42	.43	.42	.44	.42
	4.0	-.85	-1.28	-.98	-.76	-.71	.31	.37	.39	.43	.44
	7.0	-.74	-1.17	-.97	-.75	-.70	.23	.30	.34	.38	.39
	10.0	-.67	-.94	-.91	-.73	-.69	.19	.25	.29	.33	.35
	15.0	-.60	-.79	-.87	-.71	-.68	.14	.19	.24	.27	.28
	20.0	-.57	-.69	-.77	-.68	-.65	.10	.15	.19	.21	.23
	25.0	-.53	-.62	-.73	-.66	-.63	.07	.12	.16	.17	.19
	30.0	-.50	-.58	-.65	-.62	-.61	.04	.09	.12	.13	.14
	35.0	-.48	-.53	-.60	-.60	-.60	.03	.06	.09	.10	.11
	40.0	-.46	-.49	-.54	-.57	-.57	.01	.03	.06	.06	.06
	45.0	-.44	-.46	-.50	-.55	-.56	0	.02	.05	.04	.04
	50.0	-.40	-.42	-.44	-.52	-.53	-.01	.01	.03	.02	.01
	60.0	-.32	-.32	-.37	-.49	-.51	.01	.01	.02	0	-.02
	70.0	-.22	-.23	-.29	-.45	-.48	.02	.02	.01	-.03	-.06
	80.0	-.13	-.14	-.23	-.43	-.47	.05	.04	.02	-.04	-.06
	90.0	-.01	-.05	-.18	-.39	-.44	.06	.04	-.01	-.10	-.13
	95.0	.03	-.01	-.16	-.39	-.42	.06	.04	-.04	-.17	-.20
0.924 b/2	0	-.01	-.43	-.69	-.36	-.41	- - -	- - -	- - -	- - -	- - -
	1.5	-1.23	-1.53	-1.48	-.68	-.60	.38	.40	.39	.40	.39
	4.0	-.75	-1.32	-1.37	-.66	-.59	- - -	- - -	- - -	- - -	- - -
	7.0	-.67	-1.08	-1.38	-.66	-.59	.18	.24	.29	.29	.31
	10.0	-.59	-.81	-1.21	-.64	-.57	.12	.17	.22	.23	.25
	15.0	-.53	-.63	-.99	-.62	-.56	.06	.11	.14	.15	.17
	20.0	-.47	-.54	-.76	-.59	-.54	.01	.04	.07	.07	.09
	25.0	-.45	-.50	-.59	-.57	-.53	-.01	.01	.04	.04	.06
	30.0	-.42	-.47	-.53	-.52	-.50	-.04	-.03	-.01	-.01	0
	35.0	-.41	-.45	-.46	-.50	-.47	-.04	-.04	-.02	-.02	-.02
	40.0	-.39	-.43	-.43	-.46	-.43	-.06	-.06	-.05	-.05	-.05
	45.0	-.38	-.41	-.39	-.44	-.42	-.06	-.06	-.05	-.06	-.07
	50.0	-.35	-.38	-.38	-.41	-.38	-.05	-.07	-.07	-.08	-.08
	60.0	- - -	- - -	- - -	- - -	- - -	-.04	-.05	-.06	-.08	-.08
	70.0	- - -	- - -	- - -	- - -	- - -	-.03	-.05	-.06	-.09	-.10
	80.0	-.16	-.19	-.29	-.33	-.35	.01	-.01	-.03	-.07	-.09
	90.0	-.08	-.14	-.31	-.32	-.34	.01	-.01	-.05	-.10	-.10
	95.0	-.02	-.08	-.26	-.33	-.34	.03	0	-.07	-.15	-.17

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TABLE VI.- CONTINUED

(c) α_u, 18°, 20°, 22°, 24°, 26°

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	26°	Lower surface, Angle of attack 18°	20°	22°	24°	26°
0.066 b/2	0	-1.60	-2.07	-2.42	-2.51	-2.34	- - -	- - -	- - -	- - -	- - -
	1.5	-2.13	-2.23	-2.25	-2.16	-1.99	0.61	0.62	0.63	0.65	0.65
	4.0	-1.74	-2.16	-2.25	-2.11	-1.80	.60	.64	.68	.72	.75
	7.0	-1.03	-1.70	-2.14	-2.07	-1.80	.54	.59	.63	.67	.70
	10.0	-.83	-1.00	-1.64	-1.76	-1.61	.50	.55	.59	.64	.67
	15.0	-.77	-.74	-.60	-1.11	-1.36	.46	.50	.54	.58	.62
	20.0	-.75	-.73	-.71	-.96	-1.17	.42	.46	.50	.54	.58
	25.0	-.72	-.72	-.79	-.84	-.98	.39	.42	.46	.50	.53
	30.0	-.70	-.72	-.80	-.82	-.92	.36	.40	.43	.47	.50
	35.0	-.69	-.72	-.80	-.80	-.85	.34	.37	.40	.44	.47
	40.0	-.68	-.72	-.80	-.80	-.84	.31	.34	.37	.41	.44
	45.0	-.68	-.72	-.80	-.80	-.82	.29	.32	.35	.38	.41
	50.0	-.65	-.70	-.78	-.79	-.81	.27	.29	.32	.35	.38
	60.0	-.60	-.67	-.76	-.79	-.81	.25	.27	.29	.32	.34
	70.0	-.50	-.60	-.70	-.76	-.80	.23	.24	.26	.28	.29
	80.0	-.38	-.49	-.61	-.71	-.78	.23	.23	.23	.25	.25
	90.0	-.18	-.28	-.40	-.52	-.63	.17	.15	.14	.13	.12
	95.0	-.09	-.18	-.28	-.38	-.50	.12	.09	.06	.03	.01
0.195 b/2	0	-2.48	-2.32	-1.68	-1.45	-1.28	- - -	- - -	- - -	- - -	- - -
	1.5	-2.13	-2.17	-1.64	-1.42	-1.28	.54	.54	.56	.56	.57
	4.0	-2.06	-2.04	-1.55	-1.36	-1.21	.59	.62	.65	.68	.70
	7.0	-2.02	-1.94	-1.55	-1.34	-1.19	.55	.59	.63	.67	.70
	10.0	-1.89	-1.88	-1.51	-1.29	-1.15	.51	.55	.59	.63	.66
	15.0	-1.49	-1.74	-1.51	-1.28	-1.11	.47	.51	.54	.58	.62
	20.0	-.98	-1.50	-1.41	-1.23	-1.10	.42	.46	.49	.54	.57
	25.0	-.73	-1.18	-1.33	-1.19	-1.08	.39	.42	.46	.50	.53
	30.0	-.68	-1.02	-1.24	-1.12	-1.04	.36	.39	.42	.46	.49
	35.0	-.68	-.82	-1.15	-1.07	-1.00	.33	.36	.39	.43	.46
	40.0	-.67	-.77	-1.07	-1.02	-.97	.30	.33	.35	.39	.42
	45.0	-.67	-.71	-.99	-.97	-.94	.28	.30	.33	.36	.39
	50.0	-.66	-.71	-.94	-.94	-.92	.25	.27	.29	.32	.35
	60.0	-.58	-.67	-.84	-.88	-.89	.23	.25	.26	.29	.31
	70.0	-.48	-.61	-.80	-.85	-.87	.21	.21	.22	.23	.24
	80.0	-.34	-.51	-.69	-.79	-.84	.20	.18	.18	.18	.18
	90.0	-.15	-.32	-.55	-.70	-.75	.14	.10	.07	.05	.06
	95.0	-.08	-.23	-.44	-.61	-.72	.09	.03	-.03	-.07	-.11
0.382 b/2	0	-1.81	-1.42	-1.17	-1.03	-.96	- - -	- - -	- - -	- - -	- - -
	1.5	-1.61	-1.34	-1.12	-1.01	-.95	.44	.43	.43	.42	.41
	4.0	-1.55	-1.31	-1.08	-.98	-.93	.55	.57	.58	.59	.59
	7.0	-1.54	-1.25	-1.08	-.98	-.93	.53	.55	.57	.59	.61
	10.0	-1.48	-1.19	-1.05	-.96	-.92	.50	.52	.54	.57	.59
	15.0	-1.46	-1.16	-1.04	-.95	-.91	.44	.47	.49	.53	.55
	20.0	-1.41	-1.10	-1.00	-.93	-.90	.40	.42	.45	.48	.51
	25.0	-1.39	-1.09	-.99	-.92	-.89	.36	.39	.41	.44	.47
	30.0	-1.30	-1.05	-.97	-.91	-.89	.33	.35	.37	.40	.43
	35.0	-1.23	-1.03	-.96	-.90	-.88	.30	.32	.34	.37	.39
	40.0	-1.14	-.99	-.94	-.89	-.88	.27	.28	.30	.33	.35
	45.0	-1.06	-.97	-.93	-.89	-.87	.24	.25	.27	.30	.32
	50.0	-.99	-.93	-.91	-.87	-.87	.21	.22	.23	.25	.27
	60.0	-.84	-.89	-.89	-.86	-.86	.19	.19	.19	.21	.22
	70.0	-.73	-.84	-.86	-.84	-.84	.16	.14	.13	.14	.15
	80.0	-.58	-.77	-.82	-.81	-.82	.14	.10	.08	.08	.08
	90.0	-.43	-.68	-.76	-.76	-.78	.06	-.02	-.06	-.05	-.08
	95.0	-.32	-.63	-.73	-.75	-.77	0	-.13	-.20	-.21	-.22
0.555 b/2	0	-1.15	-.94	-.91	-.89	-.87	- - -	- - -	- - -	- - -	- - -
	1.5	-1.09	-.91	-.89	-.87	-.85	.42	.41	.39	.37	.34
	4.0	-1.04	-.90	-.87	-.86	-.84	- - -	- - -	- - -	- - -	- - -
	7.0	-1.04	-.90	-.88	-.86	-.85	.50	.51	.53	.54	.55
	10.0	-1.01	-.88	-.87	-.85	-.84	.46	.48	.49	.51	.53
	15.0	-.99	-.88	-.86	-.85	-.84	.41	.42	.45	.47	.49
	20.0	-.95	-.86	-.85	-.84	-.83	.37	.38	.40	.43	.45
	25.0	-.93	-.85	-.84	-.83	-.82	.33	.34	.36	.38	.41
	30.0	-.90	-.83	-.83	-.82	-.81	.29	.31	.32	.34	.37
	35.0	-.88	-.83	-.83	-.82	-.81	.26	.27	.28	.30	.33
	40.0	-.86	-.81	-.81	-.81	-.80	.22	.23	.24	.26	.29
	45.0	-.85	-.81	-.81	-.81	-.80	.20	.19	.21	.22	.24
	50.0	-.82	-.79	-.79	-.79	-.79	.17	.16	.17	.18	.21
	60.0	-.79	-.77	-.78	-.78	-.78	.13	.12	.12	.13	.15
	70.0	-.74	-.75	-.75	-.75	-.75	.09	.06	.06	.06	.07
	80.0	-.69	-.71	-.72	-.73	-.73	.05	.01	.01	0	.01
	90.0	-.63	-.66	-.67	-.68	-.70	-.07	-.11	-.12	-.12	-.12
	95.0	-.60	-.63	-.64	-.66	-.68	-.17	-.22	-.23	-.24	-.24

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TABLE VI.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	26°	Lower surface, Angle of attack 18°	20°	22°	24°	26°
0.707 b/2	0	-0.86	-0.80	-0.78	-0.76	-0.76	- - -	- - -	- - -	- - -	- - -
	1.5	-.80	-.77	-.77	-.75	-.75	0.41	0.38	0.36	0.36	0.30
	4.0	-.77	-.76	-.75	-.74	-.74	.48	.48	.49	.49	.49
	7.0	-.77	-.76	-.75	-.73	-.73	.45	.46	.47	.48	.50
	10.0	-.76	-.75	-.74	-.72	-.72	.41	.42	.44	.45	.47
	15.0	-.75	-.74	-.73	-.72	-.72	.36	.37	.39	.41	.43
	20.0	-.73	-.72	-.71	-.70	-.71	.31	.32	.34	.36	.38
	25.0	-.72	-.71	-.70	-.69	-.70	.27	.28	.30	.32	.34
	30.0	-.70	-.69	-.68	-.68	-.69	.22	.23	.25	.27	.29
	35.0	-.69	-.68	-.68	-.68	-.69	.19	.19	.21	.23	.25
	40.0	-.67	-.67	-.66	-.66	-.68	.15	.15	.16	.18	.20
	45.0	-.66	-.66	-.66	-.67	-.68	.12	.12	.13	.14	.17
	50.0	-.64	-.65	-.65	-.66	-.68	.09	.08	.09	.11	.12
	60.0	-.63	-.64	-.64	-.65	-.67	.04	.03	.04	.05	.03
	70.0	-.60	-.61	-.62	-.63	-.65	0	-.01	-.01	-.01	0
	80.0	-.57	-.58	-.60	-.61	-.63	-.04	-.05	-.05	-.05	-.05
	90.0	-.52	-.53	-.55	-.57	-.59	-.12	-.14	-.15	-.15	-.15
	95.0	-.50	-.51	-.53	-.55	-.58	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.75	-.69	-.67	-.65	-.67	- - -	- - -	- - -	- - -	- - -
	1.5	-.69	-.67	-.66	-.65	-.66	.41	.39	.36	.34	.30
	4.0	-.67	-.65	-.64	-.63	-.66	.45	.46	.45	.46	.46
	7.0	-.67	-.65	-.64	-.63	-.66	.41	.43	.43	.45	.46
	10.0	-.65	-.63	-.62	-.62	-.64	.37	.38	.39	.41	.43
	15.0	-.64	-.62	-.61	-.62	-.64	.31	.32	.34	.36	.38
	20.0	-.62	-.59	-.59	-.60	-.63	.25	.26	.28	.30	.32
	25.0	-.61	-.59	-.59	-.60	-.63	.21	.22	.23	.25	.28
	30.0	-.59	-.57	-.57	-.59	-.62	.16	.17	.18	.20	.22
	35.0	-.58	-.56	-.57	-.59	-.62	.12	.13	.14	.16	.18
	40.0	-.55	-.54	-.56	-.58	-.61	.08	.08	.09	.11	.13
	45.0	-.55	-.54	-.56	-.58	-.62	.05	.05	.06	.07	.09
	50.0	-.53	-.53	-.55	-.57	-.61	.01	.02	.02	.04	.05
	60.0	-.52	-.52	-.55	-.57	-.61	-.02	-.02	-.02	-.01	-.01
	70.0	-.49	-.50	-.52	-.54	-.58	-.05	-.06	-.07	-.06	-.06
	80.0	-.48	-.48	-.51	-.52	-.56	-.07	-.07	-.08	-.08	-.09
	90.0	-.44	-.44	-.47	-.49	-.52	-.13	-.14	-.16	-.16	-.17
	95.0	-.43	-.43	-.45	-.47	-.50	-.21	-.21	-.23	-.24	-.26
0.924 b/2	0	-.46	-.50	-.56	-.61	-.68	- - -	- - -	- - -	- - -	- - -
	1.5	-.57	-.54	-.54	-.55	-.58	.38	.36	.34	.31	.27
	4.0	-.56	-.52	-.53	-.54	-.58	- - -	- - -	- - -	- - -	- - -
	7.0	-.55	-.52	-.53	-.54	-.58	.33	.34	.35	.37	.38
	10.0	-.54	-.51	-.52	-.53	-.57	.27	.28	.29	.31	.32
	15.0	-.53	-.50	-.51	-.53	-.57	.19	.18	.22	.24	.25
	20.0	-.51	-.49	-.50	-.53	-.56	.11	.12	.13	.15	.16
	25.0	-.50	-.48	-.50	-.53	-.57	.07	.08	.09	.11	.12
	30.0	-.48	-.46	-.49	-.52	-.57	.01	.02	.02	.04	.04
	35.0	-.46	-.45	-.49	-.52	-.57	-.01	.01	0	.01	.02
	40.0	-.43	-.43	-.48	-.52	-.57	-.04	-.04	-.05	-.04	-.04
	45.0	-.42	-.43	-.48	-.52	-.57	-.05	-.05	-.06	-.05	-.05
	50.0	-.39	-.41	-.46	-.51	-.56	-.08	-.08	-.09	-.08	-.08
	60.0	- - -	- - -	- - -	- - -	- - -	-.09	-.09	-.10	-.09	-.09
	70.0	- - -	- - -	- - -	- - -	- - -	-.10	-.10	-.13	-.13	-.14
	80.0	-.36	-.39	-.42	-.45	-.50	-.09	-.10	-.12	-.13	-.13
	90.0	-.35	-.36	-.39	-.42	-.45	-.13	-.14	-.16	-.16	-.18
	95.0	-.34	-.35	-.38	-.40	-.44	-.18	-.18	-.20	-.21	-.23

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TABLE VII.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.80; R, 4,000,000

(a) α_u, -2°, 0°, 2°, 4°, 6°

Spanwise station	Percent chord	Upper surface, Angle of attack -2	0	2°	4°	6°	Lower surface, Angle of attack -2	0	2°	4°	6°
0.086 b/2	0	0.15	0.45	0.52	0.53	0.48	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.26	.15	.02	-.14	-0.46	-0.24	-0.04	0.11	0.24
	4.0	.22	.12	.04	-.07	-.20	-.24	-.14	-.01	.09	.20
	7.0	.15	.06	-.01	-.10	-.20	-.21	-.11	-.02	.06	.15
	10.0	.10	.02	-.04	-.14	-.23	-.20	-.11	-.03	.05	.12
	15.0	.05	-.03	-.09	-.19	-.24	-.17	-.09	-.03	.05	.12
	20.0	0	-.08	-.14	-.23	-.29	-.18	-.10	-.03	.03	.10
	25.0	-.03	-.10	-.17	-.24	-.30	-.19	-.12	-.05	.01	.08
	30.0	-.06	-.14	-.20	-.27	-.33	-.19	-.12	-.05	.01	.07
	35.0	-.10	-.17	-.23	-.30	-.36	-.20	-.13	-.07	-.01	.06
	40.0	-.15	-.21	-.27	-.35	-.40	-.21	-.15	-.08	-.03	.04
	45.0	-.19	-.24	-.30	-.38	-.44	-.21	-.15	-.09	-.04	.03
	50.0	-.20	-.28	-.33	-.40	-.45	-.20	-.15	-.09	-.04	.02
	60.0	-.24	-.29	-.35	-.42	-.48	-.14	-.10	-.04	0	.05
	70.0	-.22	-.28	-.32	-.37	-.40	-.08	-.04	0	.03	.07
	80.0	-.18	-.22	-.24	-.26	-.27	-.01	.01	.05	.07	.11
	90.0	-.04	-.05	-.06	-.08	-.08	.02	.04	.06	.08	.10
	95.0	.02	.01	.01	.01	.01	.05	.05	.06	.07	.09
0.195 b/2	0	.18	.36	.46	.46	.36	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.22	.08	-.10	-.33	-.72	-.34	-.10	.10	.26
	4.0	.21	.11	-.02	-.17	-.33	-.35	-.25	-.07	.07	.19
	7.0	.10	.02	-.09	-.20	-.33	-.30	-.18	-.07	.04	.15
	10.0	.08	-.02	-.12	-.23	-.33	-.29	-.18	-.08	.02	.11
	15.0	.01	-.07	-.17	-.26	-.36	-.24	-.15	-.07	.01	.09
	20.0	-.04	-.13	-.21	-.30	-.39	-.23	-.15	-.08	.01	.07
	25.0	-.08	-.15	-.24	-.32	-.40	-.23	-.15	-.08	-.01	.06
	30.0	-.11	-.19	-.27	-.35	-.43	-.22	-.15	-.08	-.02	.05
	35.0	-.15	-.22	-.30	-.38	-.45	-.22	-.15	-.09	-.03	.04
	40.0	-.19	-.26	-.34	-.40	-.49	-.22	-.16	-.10	-.04	.03
	45.0	-.22	-.29	-.36	-.44	-.51	-.20	-.15	-.10	-.04	.02
	50.0	-.24	-.31	-.38	-.44	-.51	-.19	-.14	-.09	-.04	.02
	60.0	-.24	-.30	-.36	-.42	-.48	-.12	-.08	-.04	0	.05
	70.0	-.22	-.26	-.30	-.35	-.33	-.04	-.02	.02	.05	.07
	80.0	-.15	-.18	-.20	-.20	-.22	.01	.03	.05	.08	.11
	90.0	-.02	-.03	-.03	-.03	-.03	.06	.05	.07	.09	.11
	95.0	.03	.04	.04	.05	.05	.06	.07	.09	.10	.11
0.382 b/2	0	.04	.28	.43	.42	.26	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.20	.05	-.20	-.51	-.97	-.50	-.16	.10	.28
	4.0	.21	.08	-.08	-.28	-.50	-.55	-.30	-.11	.06	.20
	7.0	.11	.01	-.15	-.32	-.50	-.45	-.26	-.11	.02	.15
	10.0	.06	-.04	-.18	-.33	-.48	-.39	-.23	-.11	.01	.12
	15.0	-.01	-.12	-.23	-.36	-.49	-.33	-.20	-.10	0	.10
	20.0	-.06	-.17	-.28	-.40	-.52	-.29	-.18	-.10	-.01	.07
	25.0	-.11	-.20	-.31	-.42	-.52	-.27	-.18	-.10	-.02	.06
	30.0	-.14	-.23	-.33	-.43	-.53	-.24	-.17	-.10	-.03	.06
	35.0	-.18	-.26	-.35	-.45	-.54	-.23	-.16	-.10	-.03	.05
	40.0	-.21	-.29	-.38	-.47	-.55	-.22	-.16	-.10	-.04	.03
	45.0	-.24	-.32	-.39	-.48	-.55	-.20	-.14	-.10	-.04	.03
	50.0	-.24	-.32	-.39	-.46	-.53	-.18	-.13	-.09	-.04	.02
	60.0	-.24	-.29	-.34	-.41	-.42	-.10	-.06	-.01	0	.05
	70.0	-.20	-.23	-.27	-.28	-.30	-.04	-.01	.02	.05	.08
	80.0	-.13	-.15	-.18	-.19	-.19	.02	.05	.07	.10	.12
	90.0	0	-.01	-.01	-.02	-.01	.06	.08	.10	.11	.13
	95.0	.06	.05	.06	.06	.06	.09	.09	.11	.12	.14
0.555 b/2	0	.01	.27	.43	.40	.15	- - -	- - -	- - -	- - -	- - -
	1.5	.35	.21	0	-.30	-.70	-.97	-.60	-.17	.14	.32
	4.0	.25	.10	-.09	-.32	-.61	- - -	- - -	- - -	- - -	- - -
	7.0	.14	0	-.16	-.35	-.59	-.68	-.29	-.13	.03	.16
	10.0	.08	-.04	-.20	-.36	-.57	-.48	-.26	-.13	.01	.12
	15.0	.01	-.11	-.24	-.39	-.55	-.35	-.22	-.11	0	.10
	20.0	-.05	-.17	-.29	-.43	-.58	-.30	-.19	-.10	0	.08
	25.0	-.09	-.19	-.31	-.43	-.57	-.28	-.18	-.10	-.02	.06
	30.0	-.13	-.22	-.33	-.44	-.56	-.25	-.17	-.10	-.02	.05
	35.0	-.17	-.26	-.35	-.46	-.56	-.23	-.16	-.10	-.02	.04
	40.0	-.20	-.28	-.37	-.47	-.55	-.21	-.15	-.10	-.03	.03
	45.0	-.22	-.30	-.38	-.47	-.54	-.19	-.14	-.09	-.03	.02
	50.0	-.24	-.30	-.38	-.45	-.50	-.16	-.12	-.07	-.02	.02
	60.0	-.22	-.27	-.31	-.38	-.40	-.08	-.05	-.01	.01	.05
	70.0	-.19	-.21	-.24	-.26	-.29	-.01	.01	.03	.06	.08
	80.0	-.12	-.14	-.15	-.17	-.17	.05	.07	.08	.11	.11
	90.0	0	0	0	0	0.01	.09	.10	.10	.12	.12
	95.0	.06	.07	.07	.08	.07	.11	.12	.12	.14	.14

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TABLE VII.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0	2°	4°	6°	Lower surface, Angle of attack -2°	0	2°	4°	6°
0.707 b/2	0	-0.12	0.19	0.45	0.44	0.11	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.26	.05	-.28	-.75	-0.88	-0.71	-0.24	0.12	0.33
	4.0	.27	.13	-.07	-.32	-.65	-.89	-.46	-.19	.05	.22
	7.0	.16	.03	-.15	-.37	-.64	-.84	-.34	-.16	.02	.15
	10.0	.10	-.02	-.18	-.37	-.60	-.76	-.30	-.15	0	.12
	15.0	.03	-.09	-.23	-.39	-.57	-.57	-.24	-.13	0	.09
	20.0	-.03	-.14	-.28	-.42	-.57	-.38	-.21	-.12	-.01	.07
	25.0	-.08	-.18	-.30	-.43	-.56	-.28	-.20	-.11	-.02	.05
	30.0	-.12	-.21	-.32	-.44	-.55	-.22	-.18	-.11	-.03	.03
	35.0	-.16	-.25	-.35	-.45	-.55	-.20	-.17	-.10	-.04	.02
	40.0	-.19	-.27	-.36	-.45	-.53	-.18	-.15	-.10	-.04	.01
	45.0	-.22	-.29	-.37	-.45	-.51	-.16	-.13	-.08	-.04	.01
	50.0	-.23	-.30	-.36	-.43	-.47	-.13	-.10	-.07	-.03	.01
	60.0	-.22	-.26	-.30	-.34	-.35	-.05	-.04	-.02	0	.03
	70.0	-.18	-.20	-.23	-.24	-.25	.01	.02	.03	.06	.06
	80.0	-.12	-.13	-.14	-.15	-.14	.07	.08	.09	.10	.10
	90.0	.01	.01	.01	.01	.01	.11	.11	.12	.12	.11
	95.0	.07	.07	.08	.08	.07	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	0	.24	.46	.45	.16	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.29	.09	-.24	-.74	-.75	-.82	-.30	.10	.33
	4.0	.26	.15	-.04	-.30	-.62	-.64	-.48	-.22	.03	.21
	7.0	.17	.06	-.12	-.34	-.60	-.66	-.35	-.18	.01	.15
	10.0	.11	.01	-.16	-.34	-.56	-.57	-.31	-.16	-.01	.12
	15.0	.03	-.08	-.21	-.37	-.53	-.56	-.26	-.14	-.02	.08
	20.0	-.03	-.13	-.26	-.40	-.54	-.42	-.22	-.13	-.03	.05
	25.0	-.08	-.17	-.29	-.40	-.51	-.40	-.20	-.12	-.04	.03
	30.0	-.13	-.21	-.31	-.42	-.50	-.30	-.18	-.11	-.04	.01
	35.0	-.17	-.24	-.34	-.42	-.49	-.25	-.15	-.10	-.05	0
	40.0	-.20	-.27	-.34	-.42	-.45	-.20	-.13	-.10	-.05	-.02
	45.0	-.23	-.28	-.35	-.40	-.44	-.16	-.11	-.08	-.05	-.02
	50.0	-.24	-.29	-.34	-.38	-.41	-.12	-.08	-.06	-.04	-.02
	60.0	-.21	-.24	-.27	-.30	-.31	-.05	-.02	-.01	-.01	.02
	70.0	-.16	-.18	-.19	-.20	-.21	.01	.04	.04	.06	.04
	80.0	-.10	-.10	-.11	-.12	-.11	.07	.10	.10	.10	.09
	90.0	.01	.02	.02	.03	.02	.10	.12	.12	.12	.10
	95.0	.07	.09	.09	.09	.08	.11	.13	.14	.13	.11
0.924 b/2	0	-.80	-.37	.19	.43	.36	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.29	.11	-.20	-.68	-1.02	-.90	-.40	.05	.30
	4.0	.26	.15	-.03	-.28	-.58	- - -	- - -	- - -	- - -	- - -
	7.0	.16	.05	-.11	-.32	-.57	-.99	-.41	-.23	-.04	.11
	10.0	.08	-.03	-.17	-.34	-.55	-.80	-.35	-.21	-.06	.06
	15.0	-.02	-.11	-.23	-.37	-.51	-.75	-.26	-.17	-.08	.01
	20.0	-.10	-.18	-.27	-.36	-.44	-.44	-.20	-.14	-.08	-.04
	25.0	-.14	-.21	-.28	-.36	-.41	-.18	-.16	-.12	-.08	-.04
	30.0	-.18	-.22	-.29	-.35	-.40	-.14	-.14	-.11	-.08	-.05
	35.0	-.19	-.23	-.29	-.35	-.39	-.10	-.12	-.10	-.08	-.05
	40.0	-.20	-.24	-.29	-.34	-.38	-.10	-.10	-.09	-.07	-.06
	45.0	-.20	-.24	-.29	-.34	-.37	-.08	-.08	-.07	-.06	-.05
	50.0	-.19	-.23	-.26	-.30	-.34	-.06	-.06	-.05	-.05	-.05
	60.0	- - -	- - -	- - -	- - -	- - -	-.02	.01	.01	.01	-.02
	70.0	- - -	- - -	- - -	- - -	- - -	.02	.05	.04	.03	.01
	80.0	-.06	-.06	-.08	-.10	-.12	.06	.11	.09	.08	.06
	90.0	.03	.05	.04	.01	-.03	.08	.13	.12	.10	.07
	95.0	.08	.10	.09	.07	.04	.10	.14	.13	.12	.08

TABLE VII.- CONTINUED

(b) α_u, 8°, 10°, 12°, 14°, 16°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.086 b/2	0	0.37	0.19	-0.01	-0.23	-0.42	- - -	- - -	- - -	- - -	- - -
	1.5	-.31	-.54	-.89	-1.23	-1.41	0.36	0.46	0.54	0.59	0.64
	4.0	-.31	-.45	-.59	-.69	-1.11	.28	.37	.45	.50	.56
	7.0	-.30	-.41	-.52	-.64	-.71	.23	.30	.38	.44	.50
	10.0	-.31	-.41	-.50	-.61	-.68	.20	.27	.35	.40	.45
	15.0	-.32	-.41	-.50	-.59	-.67	.18	.25	.31	.36	.41
	20.0	-.35	-.45	-.52	-.62	-.68	.16	.21	.28	.32	.38
	25.0	-.36	-.46	-.53	-.62	-.68	.13	.19	.26	.30	.35
	30.0	-.39	-.49	-.56	-.64	-.71	.12	.17	.23	.26	.32
	35.0	-.42	-.52	-.59	-.68	-.72	.10	.15	.21	.26	.30
	40.0	-.47	-.57	-.64	-.74	-.74	.09	.14	.19	.22	.27
	45.0	-.51	-.60	-.69	-.78	-.75	.07	.13	.17	.20	.25
	50.0	-.53	-.64	-.73	-.82	-.77	.06	.11	.16	.19	.23
	60.0	-.54	-.64	-.75	-.83	-.81	.08	.12	.16	.19	.22
	70.0	-.42	-.48	-.50	-.51	-.60	.10	.13	.16	.18	.21
	80.0	-.28	-.30	-.31	-.36	-.44	.12	.15	.18	.19	.21
	90.0	-.07	-.11	-.13	-.19	-.25	.11	.13	.15	.14	.15
	95.0	-.01	-.03	-.05	-.09	-.15	.09	.11	.11	.10	.10
0.195 b/2	0	.15	-.14	-.42	-.68	-.95	- - -	- - -	- - -	- - -	- - -
	1.5	-.59	-.97	-1.37	-1.49	-1.52	.37	.46	.53	.57	.60
	4.0	-.50	-.65	-1.20	-1.52	-1.57	.29	.37	.45	.51	.56
	7.0	-.57	-.61	-.74	-1.22	-1.46	.23	.31	.39	.45	.51
	10.0	-.46	-.58	-.69	-1.05	-1.40	.19	.28	.35	.40	.46
	15.0	-.42	-.57	-.67	-.76	-1.19	.16	.24	.30	.36	.42
	20.0	-.47	-.58	-.69	-.75	-.97	.14	.21	.28	.32	.38
	25.0	-.48	-.58	-.68	-.74	-.71	.12	.18	.25	.29	.34
	30.0	-.51	-.61	-.70	-.77	-.69	.11	.17	.22	.26	.32
	35.0	-.54	-.64	-.72	-.80	-.74	.09	.15	.20	.24	.30
	40.0	-.57	-.68	-.77	-.84	-.79	.07	.13	.18	.21	.26
	45.0	-.59	-.70	-.80	-.88	-.83	.07	.12	.17	.20	.24
	50.0	-.60	-.70	-.81	-.86	-.83	.06	.11	.15	.18	.22
	60.0	-.50	-.56	-.63	-.58	-.71	.08	.12	.16	.18	.21
	70.0	-.36	-.37	-.36	-.45	-.54	.10	.13	.16	.17	.19
	80.0	-.20	-.21	-.23	-.29	-.38	.12	.14	.16	.17	.18
	90.0	-.04	-.05	-.08	-.13	-.20	.11	.12	.14	.13	.12
	95.0	.02	0	-.03	-.07	-.14	.10	.09	.11	.08	.06
0.382 b/2	0	-.01	-.31	-.58	-.83	-1.07	- - -	- - -	- - -	- - -	- - -
	1.5	-.97	-1.41	-1.68	-1.60	-1.38	.39	.46	.50	.52	.53
	4.0	-.67	-1.44	-1.71	-1.65	-1.32	.30	.39	.45	.49	.53
	7.0	-.67	-.93	-1.39	-1.53	-1.31	.24	.32	.39	.46	.49
	10.0	-.64	-.79	-1.24	-1.51	-1.29	.20	.28	.35	.40	.45
	15.0	-.64	-.78	-1.02	-1.41	-1.28	.16	.24	.30	.35	.40
	20.0	-.64	-.79	-.93	-1.33	-1.23	.14	.21	.27	.31	.36
	25.0	-.64	-.78	-.91	-1.24	-1.19	.12	.18	.24	.28	.32
	30.0	-.64	-.78	-.89	-1.15	-1.11	.10	.16	.21	.25	.29
	35.0	-.64	-.80	-.90	-1.05	-1.07	.09	.14	.19	.23	.27
	40.0	-.64	-.80	-.91	-.97	-1.01	.07	.12	.17	.20	.23
	45.0	-.63	-.77	-.80	-.87	-.98	.06	.11	.15	.18	.21
	50.0	-.55	-.59	-.52	-.81	-.94	.06	.10	.13	.16	.18
	60.0	-.43	-.42	-.44	-.64	-.86	.07	.11	.14	.15	.16
	70.0	-.29	-.27	-.31	-.52	-.78	.09	.12	.13	.13	.14
	80.0	-.15	-.13	-.18	-.35	-.66	.12	.13	.15	.13	.12
	90.0	-.02	-.03	-.07	-.21	-.54	.11	.12	.11	.08	.04
	95.0	.03	.01	-.04	-.13	-.45	.10	.09	.08	.04	-.04
0.555 b/2	0	-.18	-.48	-.74	-.95	-1.14	- - -	- - -	- - -	- - -	- - -
	1.5	-1.26	-1.64	-1.86	-1.31	-1.03	.42	.46	.49	.49	.49
	4.0	-1.20	-1.61	-1.81	-1.25	-1.01	- - -	- - -	- - -	- - -	- - -
	7.0	-.77	-1.57	-1.78	-1.23	-1.00	.25	.33	.39	.43	.45
	10.0	-.74	-1.43	-1.76	-1.18	-.99	.21	.29	.35	.39	.42
	15.0	-.71	-.81	-1.66	-1.15	-.96	.17	.24	.30	.35	.37
	20.0	-.73	-.88	-1.24	-1.09	-.93	.15	.21	.26	.30	.32
	25.0	-.71	-.87	-.97	-1.06	-.92	.12	.18	.23	.27	.28
	30.0	-.67	-.85	-.93	-1.00	-.89	.11	.16	.21	.23	.25
	35.0	-.63	-.82	-.80	-.97	-.88	.08	.13	.18	.21	.22
	40.0	-.61	-.62	-.73	-.91	-.85	.06	.11	.16	.17	.19
	45.0	-.58	-.55	-.65	-.88	-.84	.06	.10	.14	.15	.16
	50.0	-.52	-.49	-.58	-.83	-.82	.05	.09	.12	.13	.13
	60.0	-.38	-.35	-.43	-.75	-.79	.07	.10	.12	.11	.10
	70.0	-.25	-.22	-.29	-.67	-.74	.08	.10	.11	.09	.06
	80.0	-.11	-.10	-.16	-.58	-.70	.11	.11	.11	.07	.03
	90.0	-.01	-.01	-.06	-.49	-.63	.10	.10	.08	0	-.08
	95.0	.02	.01	-.04	-.44	-.59	.09	.09	.04	-.08	-.18

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TABLE VII.- CONCLUDED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.707 b/2	0	-0.25	-0.58	-0.86	-0.92	-0.91	- - -	- - -	- - -	- - -	- - -
	1.5	-1.38	-1.74	-1.51	-.92	-.79	0.41	0.45	0.46	0.47	0.46
	4.0	-1.38	-1.69	-1.23	-.88	-.76	.31	.38	.43	.46	.47
	7.0	-1.09	-1.61	-1.24	-.88	-.76	.24	.32	.37	.40	.42
	10.0	-.69	-1.59	-1.22	-.87	-.75	.20	.28	.32	.36	.38
	15.0	-.72	-1.53	-1.19	-.85	-.75	.16	.23	.28	.31	.33
	20.0	-.70	-1.16	-1.10	-.82	-.74	.13	.19	.23	.26	.28
	25.0	-.68	-.69	-1.05	-.80	-.73	.11	.17	.21	.22	.24
	30.0	-.64	-.52	-.97	-.76	-.71	.08	.13	.17	.18	.19
	35.0	-.61	-.52	-.91	-.74	-.70	.06	.11	.15	.15	.16
	40.0	-.56	-.49	-.84	-.70	-.68	.04	.08	.11	.11	.12
	45.0	-.52	-.47	-.79	-.69	-.67	.03	.07	.09	.09	.09
	50.0	-.46	-.43	-.72	-.67	-.64	.02	.05	.07	.06	.06
	60.0	-.33	-.32	-.62	-.63	-.64	.04	.05	.06	.03	.01
	70.0	-.21	-.21	-.52	-.59	-.60	.05	.06	.05	0	-.03
	80.0	-.09	-.09	-.42	-.55	-.59	.07	.08	.05	-.03	-.06
	90.0	0	.01	-.32	-.49	-.54	.08	.08	.01	-.10	-.14
	95.0	.03	.04	-.28	-.47	-.52	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.22	-.56	-.81	-.77	-.74	- - -	- - -	- - -	- - -	- - -
	1.5	-1.35	-1.69	-1.10	-.82	-.68	.40	.43	.45	.45	.44
	4.0	-1.34	-1.68	-1.01	-.71	-.63	.29	.36	.41	.42	.44
	7.0	-1.06	-1.60	-1.00	-.71	-.63	.23	.30	.35	.37	.39
	10.0	-.63	-1.54	-.96	-.69	-.62	.18	.26	.30	.32	.35
	15.0	-.68	-1.44	-.94	-.68	-.62	.12	.20	.25	.26	.28
	20.0	-.68	-1.00	-.89	-.65	-.60	.10	.16	.20	.10	.22
	25.0	-.63	-.64	-.85	-.64	-.59	.07	.12	.16	.16	.18
	30.0	-.56	-.46	-.79	-.61	-.57	.04	.09	.12	.11	.13
	35.0	-.53	-.43	-.76	-.60	-.56	.02	.06	.09	.08	.09
	40.0	-.49	-.44	-.70	-.57	-.54	0	.03	.05	.04	.01
	45.0	-.46	-.43	-.66	-.56	-.54	-.01	.02	.03	.01	-.03
	50.0	-.42	-.38	-.61	-.54	-.52	-.02	0	.01	-.02	-.06
	60.0	-.31	-.31	-.54	-.53	-.51	0	.01	0	-.04	-.09
	70.0	-.20	-.22	-.46	-.49	-.50	.02	.02	-.01	-.08	-.09
	80.0	-.10	-.14	-.40	-.48	-.50	.06	.06	0	-.08	-.10
	90.0	0	-.03	-.34	-.44	-.46	.06	.06	-.05	-.14	-.17
	95.0	.04	.02	-.32	-.43	-.45	.06	.07	-.11	-.21	-.24
0.924 b/2	0	.12	-.14	-.22	-.20	-.27	- - -	- - -	- - -	- - -	- - -
	1.5	-1.27	-1.61	-.89	-.63	-.55	.38	.40	.42	.42	.41
	4.0	-1.24	-1.61	-.80	-.59	-.53	- - -	- - -	- - -	- - -	- - -
	7.0	-.95	-1.58	-.80	-.59	-.53	.18	.25	.29	.30	.32
	10.0	-.67	-1.29	-.78	-.56	-.51	.12	.17	.22	.23	.25
	15.0	-.60	-.94	-.76	-.55	-.50	.06	.11	.15	.16	.17
	20.0	-.50	-.82	-.72	-.53	-.48	-.01	.03	.06	.06	.07
	25.0	-.49	-.66	-.69	-.52	-.47	-.03	0	.02	.02	.03
	30.0	-.47	-.50	-.64	-.49	-.45	-.05	-.05	-.03	-.04	-.03
	35.0	-.45	-.42	-.61	-.47	-.44	-.06	-.05	-.04	-.05	-.05
	40.0	-.44	-.40	-.55	-.44	-.42	-.07	-.07	-.06	-.09	-.09
	45.0	-.41	-.39	-.52	-.43	-.42	-.07	-.07	-.06	-.09	-.10
	50.0	-.38	-.38	-.47	-.39	-.40	-.06	-.06	-.08	-.11	-.13
	60.0	- - -	- - -	- - -	- - -	- - -	-.05	-.04	-.08	-.11	-.14
	70.0	- - -	- - -	- - -	- - -	- - -	-.03	-.03	-.05	-.12	-.15
	80.0	-.16	-.25	-.40	-.38	-.40	.01	.01	-.06	-.10	-.14
	90.0	-.08	-.21	-.39	-.36	-.38	.02	.01	-.09	-.14	-.18
	95.0	-.02	-.12	-.38	-.36	-.38	.03	.01	-.14	-.19	-.21

TABLE VIII.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.83; R, 4,000,000

(a) α_u, -2°, -1°, 0°, 1°, 2°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.086 b/2	0	0.35	0.41	0.46	0.50	0.52	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.34	.28	.23	.17	-0.46	-0.33	-0.23	-0.13	-0.06
	4.0	.22	.20	.13	.10	.04	-.24	-.17	-.13	-.08	-.01
	7.0	.16	.12	.08	.03	-.01	-.21	-.15	-.10	-.07	-.02
	10.0	.11	.08	.04	-.01	-.04	-.20	-.15	-.11	-.08	-.03
	15.0	.05	.03	-.01	-.05	-.09	-.18	-.13	-.09	-.06	-.03
	20.0	0	-.02	-.06	-.11	-.15	-.19	-.14	-.11	-.07	-.04
	25.0	-.03	-.05	-.09	-.13	-.16	-.20	-.15	-.12	-.11	-.05
	30.0	-.07	-.09	-.13	-.16	-.20	-.20	-.16	-.13	-.11	-.06
	35.0	-.10	-.13	-.16	-.20	-.23	-.21	-.17	-.14	-.11	-.08
	40.0	-.15	-.17	-.21	-.25	-.28	-.23	-.18	-.15	-.12	-.09
	45.0	-.19	-.21	-.24	-.28	-.31	-.23	-.19	-.16	-.13	-.10
	50.0	-.21	-.24	-.27	-.30	-.34	-.22	-.18	-.15	-.13	-.10
	60.0	-.26	-.28	-.30	-.34	-.38	-.16	-.13	-.11	-.08	-.05
	70.0	-.24	-.27	-.29	-.31	-.34	-.10	-.06	-.05	-.05	-.01
	80.0	-.20	-.20	-.23	-.24	-.25	-.03	0	0	.03	.05
	90.0	-.05	-.06	-.07	-.08	-.07	.02	.04	.04	.05	.06
	95.0	0	.01	0	0	0	.05	.05	.05	.06	.06
0.195 b/2	0	.20	.29	.37	.43	.46	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.29	.22	.15	.08	-.73	-.49	-.34	-.23	-.12
	4.0	.20	.17	.11	.04	-.01	-.37	-.26	-.25	-.15	-.07
	7.0	.12	.08	.04	-.03	-.09	-.31	-.24	-.19	-.15	-.08
	10.0	.08	.04	-.01	-.06	-.11	-.30	-.23	-.18	-.15	-.08
	15.0	.01	-.02	-.08	-.12	-.17	-.25	-.21	-.15	-.11	-.08
	20.0	-.04	-.09	-.12	-.17	-.21	-.26	-.21	-.15	-.11	-.08
	25.0	-.08	-.11	-.15	-.21	-.24	-.25	-.21	-.16	-.12	-.09
	30.0	-.12	-.15	-.19	-.23	-.28	-.24	-.20	-.16	-.12	-.10
	35.0	-.15	-.19	-.22	-.26	-.31	-.24	-.20	-.16	-.13	-.10
	40.0	-.20	-.23	-.27	-.32	-.35	-.24	-.20	-.17	-.14	-.11
	45.0	-.25	-.26	-.30	-.34	-.39	-.23	-.19	-.16	-.13	-.11
	50.0	-.25	-.28	-.32	-.33	-.40	-.21	-.18	-.15	-.12	-.10
	60.0	-.26	-.29	-.32	-.35	-.39	-.14	-.11	-.09	-.07	-.06
	70.0	-.24	-.25	-.28	-.29	-.31	-.08	-.05	-.03	-.02	.01
	80.0	-.17	-.17	-.19	-.22	-.21	0	.01	.01	.04	.06
	90.0	-.02	-.03	-.03	-.04	-.04	.05	.06	.06	.06	.07
	95.0	.03	.04	.03	.03	.04	.06	.08	.07	.07	.08
0.382 b/2	0	.05	.17	.27	.35	.42	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.29	.22	.22	.05	-.96	-.76	-.52	-.34	-.18
	4.0	.19	.15	.08	0	-.09	-.62	-.41	-.31	-.24	-.13
	7.0	.11	.05	-.01	-.08	-.15	-.50	-.36	-.28	-.21	-.13
	10.0	.06	.01	-.05	-.12	-.19	-.42	-.33	-.25	-.19	-.13
	15.0	-.02	-.07	-.12	-.18	-.24	-.35	-.28	-.22	-.17	-.12
	20.0	-.08	-.12	-.18	-.23	-.30	-.32	-.25	-.20	-.15	-.12
	25.0	-.12	-.16	-.21	-.27	-.32	-.30	-.24	-.19	-.15	-.12
	30.0	-.16	-.19	-.24	-.29	-.35	-.28	-.22	-.19	-.15	-.11
	35.0	-.19	-.23	-.28	-.32	-.37	-.25	-.21	-.17	-.16	-.11
	40.0	-.24	-.26	-.30	-.35	-.40	-.25	-.21	-.17	-.16	-.12
	45.0	-.26	-.30	-.34	-.38	-.42	-.23	-.19	-.16	-.13	-.11
	50.0	-.27	-.30	-.34	-.38	-.41	-.19	-.17	-.13	-.11	-.10
	60.0	-.26	-.29	-.31	-.35	-.38	-.12	-.09	-.09	-.06	-.03
	70.0	-.22	-.23	-.25	-.27	-.30	-.05	-.04	-.02	-.02	0
	80.0	-.15	-.16	-.16	-.18	-.20	.01	.03	.04	.05	.07
	90.0	-.03	-.02	-.02	-.03	-.03	.04	.06	.07	.07	.09
	95.0	.03	.05	.04	.05	.05	.07	.08	.09	.09	.09
0.555 b/2	0	.03	.13	.26	.34	.43	- - -	- - -	- - -	- - -	- - -
	1.5	.35	.29	.20	.12	-.01	-.93	-.90	-.63	-.38	-.19
	4.0	.22	.16	.10	.01	-.09	-.80	-.52	-.34	-.27	-.15
	7.0	.12	.07	0	-.08	-.16	-.74	-.40	-.31	-.22	-.14
	10.0	.06	.02	-.05	-.12	-.20	-.54	-.36	-.28	-.20	-.14
	15.0	0	-.05	-.11	-.19	-.25	-.40	-.30	-.23	-.17	-.12
	20.0	-.06	-.11	-.18	-.23	-.30	-.32	-.26	-.20	-.15	-.11
	25.0	-.10	-.14	-.20	-.26	-.33	-.29	-.24	-.20	-.15	-.11
	30.0	-.13	-.18	-.24	-.28	-.35	-.27	-.22	-.19	-.14	-.10
	35.0	-.18	-.22	-.28	-.31	-.37	-.25	-.20	-.17	-.14	-.10
	40.0	-.21	-.25	-.30	-.34	-.40	-.22	-.20	-.17	-.13	-.10
	45.0	-.23	-.27	-.32	-.35	-.40	-.20	-.18	-.15	-.12	-.10
	50.0	-.25	-.29	-.33	-.34	-.40	-.16	-.15	-.13	-.10	-.08
	60.0	-.23	-.25	-.29	-.31	-.34	-.09	-.08	-.06	-.04	-.02
	70.0	-.19	-.20	-.23	-.24	-.26	-.02	-.01	0	0	.02
	80.0	-.13	-.13	-.14	-.15	-.17	.05	.06	.06	.06	.08
	90.0	0	0	-.01	0	0	.09	.09	.09	.09	.10
	95.0	.06	.06	.06	.06	.06	.10	.11	.10	.11	.12

NACA

TABLE VIII.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.707 b/2	0	-0.09	0.02	0.18	0.35	0.45	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.33	.25	.16	.03	-0.87	-0.94	-0.75	-0.48	-0.27
	4.0	.26	.20	.12	.04	-.07	-.86	-.77	-.51	-.36	-.19
	7.0	.16	.09	.02	-.05	-.16	-.84	-.59	-.36	-.25	-.18
	10.0	.10	.05	-.03	-.10	-.20	-.77	-.44	-.32	-.23	-.16
	15.0	.02	-.03	-.10	-.17	-.25	-.64	-.34	-.26	-.20	-.14
	20.0	-.04	-.09	-.16	-.22	-.29	-.47	-.29	-.23	-.18	-.13
	25.0	-.09	-.15	-.20	-.25	-.32	-.33	-.25	-.21	-.17	-.13
	30.0	-.13	-.19	-.23	-.28	-.35	-.25	-.23	-.20	-.16	-.12
	35.0	-.18	-.21	-.26	-.30	-.37	-.22	-.21	-.19	-.15	-.11
	40.0	-.20	-.24	-.29	-.33	-.39	-.20	-.19	-.17	-.15	-.11
	45.0	-.24	-.27	-.31	-.35	-.40	-.17	-.17	-.14	-.12	-.10
	50.0	-.25	-.28	-.33	-.35	-.39	-.13	-.13	-.11	-.10	-.08
	60.0	-.23	-.25	-.28	-.30	-.32	-.07	-.06	-.05	-.04	-.04
	70.0	-.19	-.20	-.22	-.23	-.24	0	.01	.01	.02	.03
	80.0	-.12	-.13	-.13	-.13	-.14	.06	.06	.07	.08	.08
	90.0	0	.01	0	0	.01	.10	.10	.10	.11	.11
	95.0	.07	.07	.07	.07	.08	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	.01	.11	.25	.37	.46	- - -	- - -	- - -	- - -	- - -
	1.5	.39	.36	.31	.20	.07	-.76	-.89	-.84	-.54	-.30
	4.0	.26	.22	.16	.06	-.05	-.66	-.75	-.52	-.41	-.23
	7.0	.17	.12	.07	-.04	-.13	-.67	-.72	-.37	-.26	-.19
	10.0	.11	.07	.01	-.07	-.17	-.58	-.49	-.33	-.24	-.16
	15.0	.03	-.01	-.06	-.14	-.22	-.58	-.36	-.26	-.21	-.14
	20.0	-.03	-.07	-.12	-.20	-.27	-.44	-.29	-.23	-.19	-.14
	25.0	-.08	-.11	-.16	-.23	-.30	-.43	-.25	-.20	-.17	-.13
	30.0	-.13	-.16	-.21	-.27	-.33	-.32	-.21	-.18	-.15	-.12
	35.0	-.17	-.21	-.24	-.30	-.35	-.28	-.18	-.15	-.14	-.11
	40.0	-.21	-.24	-.28	-.32	-.36	-.21	-.14	-.12	-.12	-.10
	45.0	-.24	-.26	-.29	-.33	-.36	-.17	-.11	-.10	-.12	-.09
	50.0	-.25	-.26	-.29	-.33	-.35	-.12	-.08	-.07	-.09	-.06
	60.0	-.22	-.23	-.23	-.26	-.27	-.05	-.01	-.01	-.02	-.01
	70.0	-.17	-.16	-.17	-.19	-.19	-.01	.05	.05	.04	.04
	80.0	-.10	-.09	-.09	-.11	-.11	.07	.10	.10	.09	.09
	90.0	.02	.04	.05	.03	.03	.10	.12	.13	.12	.12
	95.0	.08	.09	.10	.09	.09	.11	.14	.15	.12	.13
0.924 b/2	0	-.75	-.55	-.34	-.07	.19	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.35	.30	.21	.10	-1.04	-.95	-.91	-.66	-.41
	4.0	.25	.21	.16	.06	-.04	- - -	- - -	- - -	- - -	- - -
	7.0	.16	.11	.06	-.03	-.11	-1.01	-.81	-.48	-.30	-.23
	10.0	.08	.04	-.01	-.10	-.18	-.80	-.59	-.38	-.29	-.22
	15.0	-.02	-.06	-.11	-.19	-.25	-.81	-.43	-.28	-.24	-.19
	20.0	-.11	-.14	-.19	-.25	-.29	-.49	-.28	-.20	-.18	-.15
	25.0	-.15	-.18	-.21	-.26	-.30	-.19	-.19	-.16	-.15	-.13
	30.0	-.20	-.21	-.23	-.28	-.30	-.15	-.17	-.13	-.14	-.12
	35.0	-.21	-.22	-.24	-.28	-.31	-.11	-.14	-.12	-.13	-.10
	40.0	-.21	-.22	-.24	-.28	-.31	-.10	-.11	-.10	-.11	-.10
	45.0	-.22	-.23	-.24	-.28	-.29	-.08	-.09	-.08	-.09	-.08
	50.0	-.20	-.21	-.22	-.25	-.26	-.06	-.06	-.05	-.07	-.06
	60.0	-.18	-.17	-.18	-.21	-.21	-.03	0	0	-.01	-.01
	70.0	- - -	- - -	- - -	- - -	- - -	.01	.04	.05	.05	.04
	80.0	-.06	-.05	-.04	-.07	-.08	.05	.09	.10	.09	.09
	90.0	.03	.05	.05	.05	.04	.07	.11	.13	.12	.11
	95.0	.07	.10	.10	.09	.09	.09	.14	.15	.14	.13

TABLE VIII.- CONTINUED

(b) α_u, 3°, 4°, 5°, 6°, 7°

Spanwise station	Percent chord	Upper surface Angle of attack 3°	4°	5°	6°	7°	Lower surface Angle of attack 3°	4°	5°	6°	7°
0.086 b/2	0	0.54	0.54	0.52	0.50	0.45	- - -	- - -	- - -	- - -	- - -
	1.5	.10	.04	-.03	-.11	-.20	0.04	0.11	0.17	0.26	0.31
	4.0	-.01	-.06	-.11	-.15	-.25	.05	.08	.14	.20	.24
	7.0	-.05	-.11	-.15	-.18	-.25	.02	.06	.10	.16	.19
	10.0	-.09	-.13	-.17	-.19	-.25	.01	.05	.08	.14	.16
	15.0	-.13	-.17	-.20	-.22	-.28	.01	.05	.07	.13	.15
	20.0	-.17	-.21	-.24	-.27	-.33	-.01	.02	.05	.11	.12
	25.0	-.20	-.23	-.26	-.28	-.33	-.03	0	.04	.09	.10
	30.0	-.23	-.27	-.30	-.32	-.36	-.03	-.01	.02	.07	.09
	35.0	-.27	-.30	-.33	-.35	-.40	-.04	-.02	.01	.06	.07
	40.0	-.31	-.36	-.39	-.40	-.45	-.06	-.03	-.01	.05	.06
	45.0	-.36	-.39	-.42	-.44	-.50	-.07	-.04	-.02	.04	.05
	50.0	-.39	-.42	-.45	-.49	-.52	-.08	-.05	-.02	.01	.04
	60.0	-.41	-.45	-.50	-.52	-.57	-.04	-.03	0	.04	.06
	70.0	-.39	-.42	-.43	-.45	-.50	0	.02	.04	.07	.08
	80.0	-.27	-.29	-.29	-.29	-.31	.06	.07	.08	.10	.11
	90.0	-.08	-.09	-.08	-.07	-.10	.07	.07	.08	.09	.10
	95.0	0	0	0	0	-.02	.07	.07	.07	.08	.08
0.195 b/2	0	.48	.47	.44	.37	.29	- - -	- - -	- - -	- - -	- - -
	1.5	.01	-.10	-.18	-.30	-.43	-.01	.09	.17	.25	.31
	4.0	-.08	-.16	-.23	-.30	-.41	-.01	.06	.11	.19	.24
	7.0	-.13	-.20	-.25	-.31	-.39	-.02	.02	.08	.14	.19
	10.0	-.17	-.22	-.27	-.32	-.39	-.03	.01	.06	.11	.13
	15.0	-.21	-.26	-.31	-.34	-.40	-.03	0	.05	.10	.12
	20.0	-.25	-.30	-.35	-.39	-.44	-.04	-.01	.03	.07	.10
	25.0	-.29	-.32	-.36	-.40	-.44	-.05	-.02	.01	.05	.08
	30.0	-.32	-.36	-.40	-.43	-.48	-.06	-.03	0	.05	.07
	35.0	-.35	-.39	-.43	-.46	-.50	-.07	-.04	-.01	.03	.06
	40.0	-.39	-.44	-.47	-.51	-.55	-.08	-.05	-.02	.02	.05
	45.0	-.43	-.47	-.51	-.54	-.58	-.08	-.05	-.03	.02	.04
	50.0	-.44	-.49	-.53	-.56	-.61	-.07	-.05	-.03	.01	.03
	60.0	-.43	-.47	-.50	-.56	-.61	-.04	-.01	.01	.04	.05
	70.0	-.37	-.41	-.42	-.42	-.35	.03	.04	.05	.07	.08
	80.0	-.21	-.21	-.23	-.23	-.23	.07	.06	.09	.10	.11
	90.0	-.03	-.04	-.04	-.03	-.04	.09	.09	.10	.11	.11
	95.0	.04	.04	.04	.03	.03	.09	.09	.09	.11	.10
0.382 b/2	0	.45	.43	.38	.28	.16	- - -	- - -	- - -	- - -	- - -
	1.5	-.06	-.19	-.30	-.48	-.70	-.04	.08	.17	.27	.32
	4.0	-.18	-.27	-.36	-.49	-.60	-.04	.03	.11	.19	.25
	7.0	-.24	-.32	-.40	-.49	-.61	-.06	0	.06	.13	.18
	10.0	-.25	-.33	-.39	-.47	-.57	-.07	-.01	.05	.11	.15
	15.0	-.31	-.38	-.43	-.50	-.55	-.07	-.02	.03	.08	.11
	20.0	-.35	-.42	-.48	-.53	-.59	-.07	-.03	.01	.06	.10
	25.0	-.38	-.43	-.49	-.54	-.60	-.08	-.04	0	.05	.08
	30.0	-.41	-.47	-.51	-.56	-.61	-.08	-.04	-.01	.04	.06
	35.0	-.42	-.48	-.54	-.59	-.62	-.08	-.05	-.02	.03	.05
	40.0	-.46	-.51	-.56	-.62	-.67	-.09	-.06	-.03	.02	.04
	45.0	-.49	-.53	-.58	-.64	-.71	-.08	-.06	-.03	.01	.03
	50.0	-.47	-.52	-.55	-.60	-.72	-.06	-.04	-.02	.01	.02
	60.0	-.42	-.46	-.50	-.54	-.46	-.04	-.02	.02	.05	.05
	70.0	-.28	-.31	-.31	-.30	-.31	.03	.04	.05	.07	.07
	80.0	-.20	-.20	-.21	-.21	-.17	.07	.09	.10	.11	.11
	90.0	-.04	-.02	-.03	-.03	-.02	.10	.10	.11	.12	.11
	95.0	.03	.05	.05	.06	.03	.10	.11	.12	.13	.10
0.555 b/2	0	.44	.41	.32	.19	.04	- - -	- - -	- - -	- - -	- - -
	1.5	-.16	-.29	-.42	-.67	-.90	-.02	.11	.23	.29	.36
	4.0	-.20	-.32	-.43	-.60	-.75	-.03	.05	.13	.20	.26
	7.0	-.26	-.36	-.45	-.58	-.72	-.06	.02	.08	.15	.19
	10.0	-.29	-.37	-.45	-.56	-.65	-.07	.01	.07	.11	.15
	15.0	-.33	-.40	-.47	-.56	-.61	-.06	0	.05	.10	.12
	20.0	-.38	-.45	-.53	-.61	-.68	-.06	-.01	.03	.08	.10
	25.0	-.40	-.46	-.53	-.61	-.66	-.08	-.03	.02	.05	.09
	30.0	-.42	-.48	-.53	-.61	-.69	-.07	-.03	.02	.05	.08
	35.0	-.43	-.49	-.55	-.63	-.71	-.08	-.04	.01	.04	.06
	40.0	-.47	-.51	-.55	-.61	-.73	-.08	-.04	0	.03	.05
	45.0	-.46	-.50	-.54	-.61	-.63	-.07	-.04	0	.02	.04
	50.0	-.44	-.49	-.51	-.58	-.50	-.06	-.03	.01	.02	.04
	60.0	-.37	-.41	-.43	-.36	-.39	-.02	0	.04	.06	.06
	70.0	-.28	-.28	-.26	-.29	-.27	.04	.06	.08	.09	.08
	80.0	-.17	-.18	-.17	-.18	-.13	.08	.10	.11	.12	.10
	90.0	0	0	.01	0	0	.11	.12	.14	.12	.10
	95.0	.07	.07	.09	.09	.05	.12	.14	.15	.15	.10

TABLE VIII.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.707 b/2	0	0.46	0.43	0.31	0.14	-0.03	- - -	- - -	- - -	- - -	- - -
	1.5	-.10	-.28	-.44	-.74	-1.07	-0.05	0.09	0.20	0.31	0.36
	4.0	-.20	-.33	-.48	-.67	-.99	-.07	.04	.13	.21	.26
	7.0	-.26	-.39	-.50	-.66	-.71	-.08	.01	.09	.15	.19
	10.0	-.28	-.39	-.49	-.63	-.73	-.08	-.01	.06	.11	.15
	15.0	-.33	-.42	-.50	-.61	-.72	-.08	-.02	.03	.09	.11
	20.0	-.37	-.44	-.52	-.63	-.74	-.08	-.03	.03	.07	.10
	25.0	-.39	-.46	-.52	-.62	-.72	-.08	-.04	.01	.04	.07
	30.0	-.41	-.48	-.53	-.60	-.69	-.08	-.04	0	.03	.06
	35.0	-.44	-.48	-.53	-.60	-.60	-.08	-.05	-.01	.02	.05
	40.0	-.44	-.49	-.54	-.57	-.54	-.08	-.07	-.02	.01	.02
	45.0	-.45	-.49	-.51	-.53	-.52	-.08	-.05	-.02	.01	.01
	50.0	-.43	-.47	-.49	-.48	-.48	-.06	-.05	-.01	.01	.01
	60.0	-.34	-.35	-.35	-.36	-.34	-.02	-.02	.02	.03	.03
	70.0	-.24	-.24	-.24	-.25	-.22	.05	.05	.05	.06	.05
	80.0	-.15	-.15	-.16	-.15	-.10	.10	.09	.10	.10	.08
	90.0	0	.01	.01	0	.01	.11	.12	.12	.11	.09
	95.0	.07	.08	.08	.08	.06	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	.49	.45	.33	.17	.01	- - -	- - -	- - -	- - -	- - -
	1.5	-.05	-.23	-.41	-.78	-1.09	-.08	.09	.19	.31	.36
	4.0	-.17	-.31	-.47	-.66	-1.03	-.09	.02	.11	.20	.24
	7.0	-.23	-.35	-.48	-.66	-.72	-.09	0	.05	.13	.19
	10.0	-.25	-.36	-.48	-.62	-.70	-.09	-.01	.04	.10	.15
	15.0	-.30	-.39	-.49	-.60	-.70	-.09	-.03	.01	.06	.10
	20.0	-.34	-.42	-.51	-.60	-.72	-.09	-.04	-.01	.04	.07
	25.0	-.36	-.42	-.50	-.58	-.63	-.09	-.04	-.02	.02	.05
	30.0	-.39	-.45	-.51	-.56	-.53	-.09	-.05	-.04	0	.03
	35.0	-.40	-.45	-.51	-.54	-.52	-.09	-.05	-.04	-.02	0
	40.0	-.40	-.44	-.48	-.48	-.49	-.08	-.06	-.05	-.04	-.01
	45.0	-.40	-.42	-.46	-.46	-.46	-.07	-.05	-.05	-.04	-.02
	50.0	-.37	-.39	-.42	-.44	-.42	-.06	-.04	-.05	-.03	-.02
	60.0	-.29	-.31	-.31	-.33	-.31	0	-.01	-.01	0	0
	70.0	-.20	-.20	-.22	-.23	-.20	.05	.05	.04	.03	.03
	80.0	-.12	-.11	-.14	-.13	-.11	.10	.10	.08	.08	.07
	90.0	.04	.02	.02	0	0	.12	.12	.10	.09	.07
	95.0	.10	.10	.08	.07	.06	.14	.13	.12	.10	.08
0.924 b/2	0	.36	.43	.41	.36	.25	- - -	- - -	- - -	- - -	- - -
	1.5	-.05	-.20	-.39	-.74	-1.10	-.15	.03	.15	.28	.34
	4.0	-.15	-.28	-.44	-.63	-1.01	- - -	- - -	- - -	- - -	- - -
	7.0	-.21	-.33	-.46	-.63	-.69	-.13	-.05	.02	.09	.14
	10.0	-.26	-.36	-.48	-.62	-.69	-.14	-.07	-.03	.04	.08
	15.0	-.33	-.40	-.50	-.61	-.68	-.14	-.09	-.06	-.01	.02
	20.0	-.34	-.39	-.45	-.50	-.43	-.13	-.10	-.09	-.06	-.04
	25.0	-.34	-.38	-.43	-.42	-.46	-.11	-.09	-.09	-.07	-.05
	30.0	-.34	-.36	-.41	-.43	-.46	-.10	-.09	-.10	-.09	-.08
	35.0	-.34	-.36	-.41	-.43	-.45	-.10	-.08	-.09	-.09	-.08
	40.0	-.33	-.36	-.40	-.42	-.42	-.09	-.08	-.09	-.09	-.08
	45.0	-.33	-.34	-.38	-.40	-.40	-.08	-.07	-.08	-.08	-.08
	50.0	-.28	-.30	-.34	-.36	-.38	-.04	-.06	-.07	-.08	-.07
	60.0	-.21	-.23	-.26	-.28	-.29	-.01	-.01	-.04	-.04	-.04
	70.0	- - -	- - -	- - -	- - -	- - -	.04	.03	0	-.01	-.02
	80.0	-.08	-.11	-.15	-.15	-.14	.09	.08	.05	.04	.02
	90.0	.03	.01	-.03	-.06	-.05	.11	.10	.07	.05	.04
	95.0	.09	.07	.04	.01	0	.12	.12	.08	.06	.05

TABLE VIII.- CONTINUED

(c) α_u, 8°, 9°, 10°, 12°, 14°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	9°	10°	12°	14°	Lower surface, Angle of attack 8°	9°	10°	12°	14°
0.086 b/2	0	0.39	0.32	0.24	0.06	-0.13	- - -	- - -	- - -	- - -	- - -
	1.5	-.29	-.40	-.51	-.78	-1.14	0.36	0.41	0.46	0.53	0.60
	4.0	-.29	-.36	-.42	-.55	-.64	.29	.33	.37	.44	.50
	7.0	-.29	-.34	-.38	-.48	-.59	.22	.27	.30	.37	.44
	10.0	-.30	-.34	-.37	-.47	-.56	.20	.24	.27	.34	.40
	15.0	-.31	-.35	-.39	-.47	-.55	.18	.21	.25	.31	.36
	20.0	-.35	-.40	-.42	-.50	-.58	.16	.19	.22	.28	.33
	25.0	-.36	-.40	-.44	-.51	-.58	.13	.16	.19	.24	.30
	30.0	-.39	-.43	-.46	-.54	-.61	.12	.15	.18	.23	.28
	35.0	-.42	-.47	-.50	-.56	-.64	.10	.13	.16	.21	.26
	40.0	-.48	-.52	-.55	-.62	-.69	.09	.11	.14	.19	.23
	45.0	-.54	-.57	-.60	-.67	-.74	.07	.10	.12	.17	.21
	50.0	-.55	-.60	-.64	-.71	-.79	.06	.08	.10	.15	.19
	60.0	-.61	-.65	-.68	-.76	-.82	.08	.09	.12	.16	.19
	70.0	-.54	-.61	-.67	-.77	-.76	.09	.10	.12	.16	.18
	80.0	-.30	-.32	-.33	-.38	-.41	.11	.14	.15	.17	.19
	90.0	-.11	-.13	-.13	-.18	-.21	.10	.11	.11	.13	.13
	95.0	-.03	-.05	-.05	-.09	-.12	.08	.09	.09	.09	.09
0.195 b/2	0	.18	.06	-.07	-.31	-.56	- - -	- - -	- - -	- - -	- - -
	1.5	-.56	-.71	-.90	-1.24	-1.40	.37	.40	.46	.52	.57
	4.0	-.51	-.60	-.61	-1.18	-1.45	.28	.35	.37	.44	.50
	7.0	-.46	-.52	-.59	-.71	-1.11	.22	.27	.31	.38	.45
	10.0	-.45	-.49	-.57	-.65	-.95	.19	.24	.27	.34	.40
	15.0	-.45	-.51	-.55	-.64	-.73	.16	.20	.22	.30	.36
	20.0	-.45	-.52	-.58	-.66	-.73	.14	.18	.20	.27	.32
	25.0	-.50	-.53	-.57	-.65	-.72	.11	.15	.17	.23	.28
	30.0	-.52	-.56	-.60	-.67	-.74	.10	.13	.16	.21	.26
	35.0	-.54	-.59	-.62	-.70	-.76	.09	.12	.14	.19	.24
	40.0	-.59	-.64	-.68	-.75	-.81	.07	.10	.12	.17	.21
	45.0	-.63	-.67	-.71	-.80	-.86	.06	.09	.11	.15	.20
	50.0	-.65	-.70	-.74	-.82	-.86	.05	.07	.10	.14	.18
	60.0	-.68	-.73	-.78	-.85	-.85	.07	.09	.11	.15	.18
	70.0	-.39	-.39	-.43	-.46	-.48	.10	.09	.12	.15	.16
	80.0	-.21	-.21	-.22	-.24	-.30	.11	.11	.13	.15	.16
	90.0	-.06	-.06	-.08	-.12	-.18	.11	.11	.11	.12	.11
	95.0	.01	-.01	-.03	-.07	-.13	.08	.09	.09	.09	.06
0.382 b/2	0	.03	-.11	-.23	-.46	-.70	- - -	- - -	- - -	- - -	- - -
	1.5	-.92	-1.20	-1.33	-1.58	-1.58	.38	.41	.45	.49	.52
	4.0	-.67	-1.09	-1.33	-1.54	-1.58	.28	.34	.37	.46	.49
	7.0	-.67	-.76	-.85	-1.49	-1.51	.23	.27	.31	.37	.43
	10.0	-.63	-.70	-.74	-1.32	-1.42	.20	.24	.27	.33	.39
	15.0	-.63	-.70	-.75	-.91	-1.30	.15	.18	.22	.28	.34
	20.0	-.67	-.73	-.78	-.85	-1.22	.14	.17	.20	.26	.30
	25.0	-.65	-.72	-.77	-.85	-1.15	.10	.14	.16	.22	.27
	30.0	-.67	-.73	-.78	-.86	-1.10	.09	.12	.15	.20	.24
	35.0	-.70	-.76	-.81	-.90	-1.04	.08	.11	.13	.18	.21
	40.0	-.73	-.79	-.84	-.91	-1.00	.06	.09	.11	.15	.19
	45.0	-.77	-.83	-.89	-.96	-.95	.06	.08	.09	.13	.17
	50.0	-.80	-.85	-.90	-.99	-.91	.05	.07	.08	.12	.14
	60.0	-.43	-.43	-.46	-.42	-.75	.06	.09	.10	.12	.14
	70.0	-.29	-.28	-.26	-.27	-.64	.08	.10	.10	.12	.12
	80.0	-.14	-.15	-.13	-.18	-.48	.11	.11	.12	.12	.11
	90.0	-.04	-.04	-.05	-.10	-.34	.10	.10	.10	.08	.06
	95.0	.01	-.01	-.02	-.08	-.26	.09	.08	.08	.05	0
0.555 b/2	0	-.11	-.25	-.38	-.61	-.82	- - -	- - -	- - -	- - -	- - -
	1.5	-1.16	-1.40	-1.53	-1.68	-1.20	.42	.42	.45	.48	.49
	4.0	-1.10	-1.39	-1.47	-1.63	-1.15	.30	.34	.37	.41	.47
	7.0	-.73	-1.29	-1.45	-1.58	-1.14	.24	.27	.30	.37	.42
	10.0	-.72	-.90	-1.36	-1.58	-1.11	.20	.22	.26	.32	.37
	15.0	-.70	-.79	-.82	-1.51	-1.09	.17	.19	.21	.27	.33
	20.0	-.76	-.86	-.87	-1.40	-1.05	.13	.15	.18	.25	.29
	25.0	-.74	-.85	-.90	-1.10	-1.03	.11	.12	.15	.21	.25
	30.0	-.74	-.83	-.90	-.89	-.99	.10	.11	.13	.19	.22
	35.0	-.77	-.87	-.94	-.85	-.95	.08	.09	.11	.16	.19
	40.0	-.80	-.90	-.97	-.86	-.91	.06	.07	.09	.13	.16
	45.0	-.69	-.89	-1.00	-.81	-.88	.05	.06	.08	.11	.13
	50.0	-.46	-.50	-.54	-.67	-.82	.04	.05	.07	.10	.11
	60.0	-.34	-.33	-.31	-.56	-.74	.06	.06	.08	.10	.10
	70.0	-.21	-.20	-.19	-.41	-.68	.07	.07	.08	.09	.07
	80.0	-.10	-.10	-.10	-.25	-.60	.10	.09	.09	.09	.05
	90.0	-.01	-.02	-.04	-.17	-.52	.09	.08	.08	.05	-.03
	95.0	.04	0	-.02	-.13	-.47	.09	.07	.07	.03	-.10

TABLE VIII.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	9°	10°	12°	14°	Lower surface, Angle of attack 8°	9°	10°	12°	14°
0.707 b/2	0	-0.18	-0.34	-0.49	-0.72	-0.85	- - -	- - -	- - -	- - -	- - -
	1.5	-1.36	-1.58	-1.60	-1.51	-.94	0.42	0.41	0.43	0.45	0.46
	4.0	-1.25	-1.46	-1.55	-1.16	-.84	.30	.33	.36	.41	.44
	7.0	-1.17	-1.41	-1.48	-1.16	-.88	.25	.25	.29	.35	.39
	10.0	-1.03	-1.38	-1.46	-1.15	-.87	.20	.22	.25	.30	.33
	15.0	-.74	-1.29	-1.42	-1.13	-.87	.16	.17	.20	.26	.29
	20.0	-.84	-.82	-1.32	-1.07	-.84	.13	.14	.16	.21	.25
	25.0	-.80	-.88	-1.27	-1.02	-.81	.11	.11	.13	.18	.21
	30.0	-.78	-.90	-.98	-.95	-.76	.09	.09	.11	.15	.17
	35.0	-.70	-.89	-.92	-.90	-.75	.06	.06	.07	.12	.13
	40.0	-.46	-.47	-.50	-.84	-.71	.05	.04	.05	.09	.10
	45.0	-.45	-.40	-.35	-.80	-.70	.04	.03	.04	.07	.07
	50.0	-.42	-.39	-.34	-.74	-.67	.03	.02	.03	.05	.05
	60.0	-.31	-.30	-.28	-.65	-.64	.04	.02	.03	.04	.01
	70.0	-.19	-.20	-.19	-.56	-.61	.05	.04	.04	.02	-.03
	80.0	-.08	-.09	-.09	-.47	-.57	.08	.05	.06	.02	-.05
	90.0	.02	0	0	-.39	-.51	.09	.06	.06	-.03	-.13
	95.0	.05	.02	.02	-.34	-.48	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.14	-.30	-.46	-.69	-.75	- - -	- - -	- - -	- - -	- - -
	1.5	-1.36	-1.57	-1.58	-1.25	-.85	.40	.42	.42	.44	.41
	4.0	-1.30	-1.49	-1.58	-1.04	-.72	.29	.32	.34	.39	.41
	7.0	-1.23	-1.43	-1.52	-1.03	-.71	.22	.26	.27	.33	.36
	10.0	-1.15	-1.38	-1.49	-.97	-.69	.19	.21	.23	.28	.31
	15.0	-.71	-1.30	-1.43	-.94	-.68	.13	.16	.17	.22	.25
	20.0	-.81	-1.21	-1.36	-.90	-.65	.10	.12	.13	.18	.19
	25.0	-.76	-.85	-1.29	-.85	-.64	.07	.09	.10	.14	.15
	30.0	-.46	-.42	-.84	-.78	-.61	.04	.04	.06	.10	.10
	35.0	-.43	-.31	-.62	-.74	-.60	.02	.04	.04	.07	.07
	40.0	-.46	-.36	-.42	-.68	-.57	0	.01	0	.03	.02
	45.0	-.45	-.39	-.33	-.65	-.57	-.01	-.01	-.01	.01	-.01
	50.0	-.42	-.39	-.32	-.60	-.54	-.02	-.02	-.03	-.02	-.04
	60.0	-.30	-.30	-.28	-.55	-.53	0	-.01	-.02	-.03	-.06
	70.0	-.20	-.21	-.22	-.48	-.51	.01	.01	0	-.04	-.09
	80.0	-.09	-.11	-.15	-.44	-.50	.06	.04	.04	-.04	-.10
	90.0	.01	0	-.05	-.38	-.46	.06	.06	.05	-.09	-.16
	95.0	.05	.04	0	-.36	-.44	.07	.06	.06	-.14	-.23
0.924 b/2	0	.14	.03	-.09	-.19	-.18	- - -	- - -	- - -	- - -	- - -
	1.5	-1.38	-1.55	-1.54	-1.08	-.62	.37	.39	.38	.40	.41
	4.0	-1.30	-1.49	-1.54	-.85	-.57	- - -	- - -	- - -	- - -	- - -
	7.0	-1.19	-1.44	-1.48	-.84	-.57	.17	.20	.28	.27	.29
	10.0	-1.19	-1.36	-1.44	-.81	-.55	.11	.13	.15	.20	.22
	15.0	-.64	-1.27	-1.30	-.78	-.54	.05	.06	.08	.12	.14
	20.0	-.36	-.74	-.96	-.73	-.50	-.03	-.02	-.01	.04	.05
	25.0	-.40	-.51	-.83	-.70	-.50	-.04	-.04	-.04	0	.01
	30.0	-.44	-.36	-.66	-.65	-.47	-.08	-.08	-.09	-.06	-.05
	35.0	-.45	-.34	-.53	-.60	-.45	-.08	-.08	-.09	-.07	-.07
	40.0	-.44	-.39	-.43	-.55	-.43	-.08	-.09	-.10	-.10	-.11
	45.0	-.42	-.40	-.38	-.52	-.42	-.08	-.08	-.09	-.11	-.14
	50.0	-.40	-.39	-.38	-.47	-.40	-.08	-.08	-.09	-.10	-.12
	60.0	-.29	-.32	- - -	- - -	- - -	-.05	-.06	-.07	-.10	-.14
	70.0	- - -	- - -	- - -	- - -	- - -	-.03	-.04	-.06	-.10	-.15
	80.0	-.18	-.23	-.28	-.40	-.40	0	0	-.02	-.08	-.14
	90.0	-.10	-.17	-.25	-.39	-.39	.02	.01	-.01	-.11	-.17
	95.0	-.03	-.09	-.17	-.38	-.38	.04	.02	-.02	-.16	-.22

TABLE IX.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_0, 0.86; R, 4,000,000

(a) α_u, -2°, -1°, 0°, 1°, 2°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.086 b/2	0	0.38	0.43	0.48	0.51	0.54	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.33	.28	.23	.17	-0.42	-0.30	-0.21	-0.12	-0.03
	4.0	.23	.20	.14	.10	.05	-.21	-.16	-.12	-.06	-.01
	7.0	.16	.12	.08	.04	0	-.20	-.15	-.10	-.06	-.01
	10.0	.12	.08	.04	0	-.04	-.20	-.15	-.11	-.07	-.02
	15.0	.07	.02	-.01	-.05	-.08	-.17	-.13	-.09	-.05	-.02
	20.0	.01	-.02	-.06	-.09	-.12	-.18	-.14	-.10	-.07	-.04
	25.0	-.02	-.06	-.09	-.12	-.15	-.20	-.16	-.13	-.09	-.05
	30.0	-.06	-.09	-.13	-.16	-.19	-.20	-.17	-.14	-.10	-.06
	35.0	-.09	-.13	-.17	-.20	-.22	-.21	-.18	-.15	-.11	-.07
	40.0	-.14	-.18	-.21	-.24	-.27	-.23	-.19	-.16	-.12	-.10
	45.0	-.19	-.22	-.25	-.28	-.31	-.23	-.20	-.17	-.14	-.10
	50.0	-.21	-.24	-.28	-.31	-.34	-.23	-.20	-.18	-.14	-.10
	60.0	-.25	-.29	-.33	-.35	-.40	-.17	-.14	-.12	-.09	-.06
	70.0	-.25	-.28	-.31	-.34	-.38	-.10	-.08	-.06	-.04	-.01
	80.0	-.20	-.22	-.25	-.26	-.27	-.03	-.01	.01	.02	.05
	90.0	-.05	-.06	-.07	-.07	-.07	.02	.03	.03	.04	.06
	95.0	0	0	0	0	0	.05	.05	.05	.05	.06
0.195 b/2	0	.23	.31	.38	.43	.47	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.30	.24	.17	.10	-.70	-.48	-.33	-.21	-.09
	4.0	.22	.17	.12	.06	0	-.35	-.26	-.24	-.15	-.06
	7.0	.14	.09	.04	-.01	-.06	-.30	-.24	-.18	-.13	-.06
	10.0	.09	.05	0	-.05	-.10	-.29	-.23	-.18	-.13	-.07
	15.0	.03	-.02	-.05	-.11	-.15	-.25	-.20	-.15	-.11	-.07
	20.0	-.02	-.07	-.12	-.16	-.20	-.24	-.20	-.16	-.12	-.08
	25.0	-.06	-.10	-.14	-.19	-.22	-.24	-.20	-.16	-.12	-.09
	30.0	-.11	-.15	-.18	-.23	-.26	-.24	-.20	-.16	-.13	-.09
	35.0	-.15	-.19	-.22	-.26	-.30	-.24	-.21	-.17	-.13	-.10
	40.0	-.20	-.23	-.26	-.30	-.35	-.25	-.21	-.18	-.14	-.11
	45.0	-.23	-.27	-.30	-.34	-.39	-.23	-.20	-.17	-.14	-.11
	50.0	-.25	-.30	-.33	-.38	-.41	-.21	-.19	-.16	-.13	-.10
	60.0	-.28	-.30	-.34	-.39	-.42	-.14	-.11	-.09	-.07	-.05
	70.0	-.24	-.27	-.29	-.32	-.33	-.05	-.04	-.03	-.02	.01
	80.0	-.16	-.18	-.19	-.20	-.21	.01	.02	.03	.04	.06
	90.0	-.02	-.02	-.03	-.03	-.03	.06	.06	.06	.06	.08
	95.0	.05	.04	.04	.04	.05	.07	.07	.08	.08	.09
0.382 b/2	0	.09	.19	.39	.37	.43	- - -	- - -	- - -	- - -	- - -
	1.5	.35	.29	.23	.15	.07	-.91	-.74	-.52	-.34	-.18
	4.0	.21	.16	.09	.02	-.05	-.65	-.41	-.30	-.24	-.12
	7.0	.12	.06	0	-.07	-.14	-.54	-.35	-.27	-.20	-.13
	10.0	.07	.01	-.04	-.10	-.17	-.41	-.33	-.25	-.19	-.12
	15.0	0	-.06	-.12	-.18	-.22	-.35	-.28	-.21	-.16	-.11
	20.0	-.06	-.12	-.17	-.23	-.28	-.31	-.25	-.20	-.15	-.11
	25.0	-.11	-.16	-.20	-.26	-.31	-.29	-.24	-.20	-.15	-.11
	30.0	-.14	-.20	-.24	-.29	-.35	-.27	-.22	-.19	-.14	-.10
	35.0	-.19	-.24	-.28	-.33	-.38	-.24	-.21	-.18	-.15	-.11
	40.0	-.22	-.27	-.31	-.37	-.41	-.24	-.20	-.17	-.15	-.11
	45.0	-.26	-.30	-.35	-.40	-.45	-.21	-.19	-.16	-.14	-.11
	50.0	-.27	-.31	-.35	-.40	-.44	-.19	-.17	-.14	-.12	-.10
	60.0	-.26	-.29	-.32	-.36	-.38	-.10	-.09	-.07	-.05	-.01
	70.0	-.21	-.24	-.25	-.27	-.29	-.03	-.03	-.01	0	.02
	80.0	-.14	-.16	-.16	-.17	-.18	.04	.05	.05	.06	.08
	90.0	0	0	0	-.01	-.01	.08	.08	.08	.09	.10
	95.0	.06	.06	.06	.06	.07	.10	.09	.10	.10	.11
0.555 b/2	0	.05	.15	.26	.36	.42	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.28	.21	.12	.01	-.92	-.88	-.65	-.39	-.20
	4.0	.23	.17	.10	.02	-.09	-.81	-.59	-.35	-.29	-.15
	7.0	.13	.07	0	-.07	-.16	-.78	-.43	-.32	-.23	-.14
	10.0	.08	.02	-.05	-.12	-.20	-.59	-.38	-.29	-.20	-.14
	15.0	0	-.06	-.12	-.19	-.26	-.44	-.31	-.24	-.17	-.12
	20.0	-.06	-.12	-.18	-.24	-.31	-.34	-.27	-.21	-.16	-.12
	25.0	-.10	-.15	-.21	-.26	-.34	-.30	-.25	-.20	-.15	-.12
	30.0	-.14	-.19	-.24	-.29	-.37	-.28	-.23	-.19	-.14	-.11
	35.0	-.19	-.23	-.28	-.33	-.39	-.25	-.21	-.18	-.14	-.11
	40.0	-.22	-.26	-.31	-.36	-.41	-.23	-.20	-.17	-.13	-.11
	45.0	-.24	-.28	-.33	-.37	-.43	-.20	-.18	-.15	-.12	-.10
	50.0	-.26	-.30	-.34	-.38	-.42	-.17	-.15	-.13	-.11	-.08
	60.0	-.24	-.27	-.30	-.32	-.35	-.09	-.08	-.06	-.04	-.02
	70.0	-.20	-.22	-.23	-.24	-.26	-.01	-.01	0	.01	.03
	80.0	-.13	-.14	-.14	-.14	-.15	.05	.05	.06	.07	.08
	90.0	0	0	0	.01	.01	.09	.09	.10	.10	.11
	95.0	.07	.07	.07	.07	.08	.11	.11	.11	.12	.12

NACA

TABLE IX.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.707 b/2	0	-0.06	0.05	0.19	0.35	0.45	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.34	.26	.17	.05	-0.85	-0.92	-0.76	-0.50	-0.25
	4.0	.26	.20	.13	.04	-.08	-.84	-.80	-.59	-.38	-.20
	7.0	.16	.10	.03	-.05	-.16	-.83	-.66	-.38	-.25	-.18
	10.0	.11	.05	-.02	-.10	-.19	-.76	-.45	-.32	-.23	-.16
	15.0	.02	-.04	-.10	-.17	-.25	-.68	-.34	-.26	-.19	-.14
	20.0	-.04	-.10	-.16	-.22	-.30	-.53	-.29	-.23	-.17	-.13
	25.0	-.09	-.14	-.20	-.25	-.33	-.39	-.26	-.21	-.17	-.12
	30.0	-.14	-.19	-.23	-.29	-.35	-.28	-.23	-.20	-.16	-.11
	35.0	-.17	-.22	-.27	-.31	-.38	-.22	-.21	-.18	-.15	-.11
	40.0	-.21	-.25	-.29	-.34	-.40	-.19	-.19	-.17	-.13	-.11
	45.0	-.24	-.28	-.32	-.36	-.41	-.16	-.16	-.14	-.12	-.09
	50.0	-.26	-.30	-.33	-.36	-.41	-.13	-.13	-.11	-.10	-.08
	60.0	-.24	-.27	-.29	-.30	-.32	-.05	-.05	-.05	-.03	-.02
	70.0	-.20	-.21	-.21	-.22	-.23	.02	.02	.03	.04	.04
	80.0	-.12	-.12	-.12	-.12	-.13	.08	.08	.09	.09	.09
	90.0	.02	.01	.02	.02	.02	.11	.11	.12	.12	.12
	95.0	.08	.08	.08	.09	.09	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	.05	.14	.26	.38	.46	- - -	- - -	- - -	- - -	- - -
	1.5	.39	.35	.29	.20	.09	-.74	-.89	-.84	-.57	-.29
	4.0	.27	.21	.15	.05	-.05	-.64	-.76	-.59	-.44	-.24
	7.0	.17	.11	.04	-.04	-.13	-.66	-.76	-.42	-.26	-.19
	10.0	.11	.06	-.01	-.08	-.16	-.58	-.53	-.35	-.26	-.16
	15.0	.02	-.02	-.08	-.15	-.23	-.58	-.41	-.29	-.22	-.15
	20.0	-.04	-.09	-.15	-.22	-.28	-.45	-.32	-.25	-.20	-.13
	25.0	-.08	-.13	-.19	-.25	-.31	-.45	-.27	-.23	-.19	-.13
	30.0	-.14	-.19	-.24	-.29	-.35	-.34	-.23	-.20	-.17	-.12
	35.0	-.19	-.23	-.28	-.32	-.38	-.30	-.19	-.17	-.15	-.11
	40.0	-.23	-.27	-.31	-.35	-.39	-.21	-.15	-.14	-.13	-.10
	45.0	-.25	-.29	-.33	-.36	-.39	-.17	-.12	-.12	-.11	-.09
	50.0	-.27	-.29	-.32	-.35	-.35	-.13	-.09	-.08	-.08	-.06
	60.0	-.23	-.24	-.25	-.26	-.27	-.05	-.02	-.02	-.01	0
	70.0	-.17	-.17	-.18	-.19	-.19	.01	.04	.04	.04	.05
	80.0	-.09	-.09	-.10	-.10	-.11	.07	.10	.10	.09	.11
	90.0	.03	.03	.04	.04	.04	.11	.12	.13	.13	.13
	95.0	.09	.09	.10	.10	.10	.12	.13	.14	.15	.15
0.924 b/2	0	-.68	-.51	-.31	-.05	.20	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.35	.29	.21	.10	-1.03	-.93	-.90	-.68	-.38
	4.0	.26	.20	.14	.06	-.04	- - -	- - -	- - -	- - -	- - -
	7.0	.16	.11	.05	-.03	-.11	-1.03	-.84	-.58	-.31	-.24
	10.0	.08	.03	-.03	-.10	-.18	-.88	-.64	-.40	-.31	-.22
	15.0	-.02	-.07	-.13	-.20	-.26	-.88	-.51	-.31	-.25	-.19
	20.0	-.12	-.17	-.22	-.27	-.32	-.53	-.30	-.22	-.19	-.16
	25.0	-.16	-.21	-.25	-.29	-.32	-.13	-.20	-.17	-.15	-.12
	30.0	-.20	-.23	-.26	-.29	-.32	-.11	-.16	-.15	-.13	-.12
	35.0	-.21	-.24	-.27	-.29	-.32	-.10	-.12	-.13	-.12	-.10
	40.0	-.22	-.24	-.26	-.28	-.30	-.09	-.11	-.11	-.10	-.09
	45.0	-.22	-.24	-.26	-.28	-.30	-.06	-.08	-.09	-.08	-.07
	50.0	-.20	-.22	-.24	-.25	-.26	-.04	-.06	-.06	-.05	-.05
	60.0	-.17	-.18	-.19	-.20	-.20	-.01	0	0	0	0
	70.0	-.10	-.11	-.12	-.12	-.13	.02	.05	.05	.05	.05
	80.0	-.05	-.05	-.05	-.06	-.06	.06	.10	.11	.11	.11
	90.0	.04	.05	.05	.05	-.05	.09	.12	.13	.13	.13
	95.0	.08	.11	.11	.11	.11	.11	.14	.15	.15	.15

NACA

TABLE IX.- CONTINUED

(b) α_u, 3°, 4°, 5°, 6°, 7°

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.086 b/2	0	0.55	0.55	0.54	0.51	0.47	- - -	- - -	- - -	- - -	- - -
	1.5	.11	.05	-.03	-.10	-.18	0.05	0.11	0.19	0.29	0.32
	4.0	0	-.06	-.11	-.16	-.21	.05	.10	.14	.19	.25
	7.0	-.05	-.10	-.13	-.18	-.22	.03	.07	.10	.15	.20
	10.0	-.08	-.12	-.16	-.20	-.23	.01	.05	.09	.12	.16
	15.0	-.11	-.16	-.20	-.23	-.26	.01	.05	.08	.11	.16
	20.0	-.16	-.20	-.23	-.27	-.30	0	.02	.06	.09	.12
	25.0	-.19	-.22	-.25	-.29	-.31	-.03	.01	.04	.07	.11
	30.0	-.22	-.26	-.29	-.32	-.34	-.04	-.01	.03	.06	.09
	35.0	-.26	-.30	-.32	-.35	-.38	-.04	-.02	.01	.04	.08
	40.0	-.31	-.34	-.38	-.41	-.43	-.07	-.04	-.01	.02	.06
	45.0	-.36	-.39	-.42	-.45	-.48	-.07	-.05	-.01	.01	.05
	50.0	-.38	-.42	-.45	-.49	-.52	-.08	-.05	-.02	0	.04
	60.0	-.44	-.50	-.51	-.55	-.57	-.04	-.02	0	.03	.05
	70.0	-.43	-.50	-.54	-.59	-.61	0	.01	.04	.05	.08
	80.0	-.30	-.33	-.35	-.39	-.40	.06	.06	.08	.10	.11
	90.0	-.08	-.09	-.09	-.11	-.11	.06	.06	.08	.09	.10
	95.0	-.01	-.01	-.01	-.04	-.04	.06	.06	.07	.07	.08
0.195 b/2	0	.48	.48	.45	.39	.31	- - -	- - -	- - -	- - -	- - -
	1.5	.02	-.07	-.17	-.28	-.39	.01	.09	.19	.25	.32
	4.0	-.07	-.14	-.20	-.29	-.36	.01	.07	.13	.18	.24
	7.0	-.12	-.18	-.24	-.30	-.37	-.01	.04	.09	.14	.19
	10.0	-.15	-.20	-.25	-.31	-.36	-.03	.02	.07	.11	.15
	15.0	-.20	-.24	-.28	-.34	-.38	-.03	.01	.05	.09	.13
	20.0	-.25	-.29	-.33	-.38	-.42	-.04	0	.04	.06	.11
	25.0	-.27	-.31	-.35	-.39	-.42	-.05	-.02	.02	.05	.09
	30.0	-.31	-.35	-.38	-.43	-.46	-.06	-.03	.01	.04	.08
	35.0	-.34	-.38	-.42	-.46	-.50	-.07	-.04	0	.02	.06
	40.0	-.39	-.43	-.47	-.51	-.55	-.08	-.05	-.02	.01	.05
	45.0	-.43	-.47	-.51	-.55	-.58	-.08	-.05	-.02	.01	.04
	50.0	-.46	-.50	-.54	-.58	-.60	-.08	-.05	-.02	0	.03
	60.0	-.48	-.54	-.58	-.63	-.66	-.04	-.01	.01	.04	.06
	70.0	-.42	-.48	-.53	-.59	-.63	.03	.05	.06	.07	.08
	80.0	-.19	-.20	-.19	-.20	-.17	.07	.08	.10	.10	.11
	90.0	-.03	-.03	-.02	-.02	-.02	.09	.09	.10	.10	.11
	95.0	.05	.05	.05	.05	.05	.10	.10	.11	.10	.10
0.382 b/2	0	.45	.44	.40	.31	.21	- - -	- - -	- - -	- - -	- - -
	1.5	-.04	-.16	-.29	-.44	-.62	-.04	.08	.19	.26	.34
	4.0	-.15	-.25	-.35	-.46	-.57	-.03	.05	.12	.19	.25
	7.0	-.21	-.30	-.38	-.47	-.57	-.05	.01	.08	.13	.19
	10.0	-.24	-.30	-.37	-.45	-.53	-.05	0	.06	.10	.15
	15.0	-.29	-.36	-.41	-.48	-.54	-.05	-.01	.04	.07	.12
	20.0	-.34	-.40	-.46	-.52	-.57	-.06	-.02	.02	.06	.10
	25.0	-.36	-.42	-.48	-.54	-.57	-.07	-.03	.01	.04	.08
	30.0	-.40	-.45	-.50	-.56	-.60	-.07	-.04	0	.04	.07
	35.0	-.44	-.50	-.54	-.59	-.63	-.07	-.04	-.01	.03	.06
	40.0	-.48	-.54	-.58	-.64	-.70	-.08	-.05	-.01	.01	.05
	45.0	-.52	-.59	-.63	-.68	-.72	-.08	-.05	-.01	.01	.04
	50.0	-.52	-.60	-.66	-.72	-.75	-.07	-.04	-.01	.01	.03
	60.0	-.46	-.53	-.60	-.68	-.78	-.03	-.01	.04	.04	.06
	70.0	-.26	-.25	-.22	-.27	-.30	.04	.06	.07	.07	.09
	80.0	-.19	-.19	-.18	-.16	-.15	.10	.10	.12	.11	.12
	90.0	-.01	-.01	0	0	-.01	.11	.12	.13	.13	.12
	95.0	.07	.07	.07	.07	.05	.13	.13	.15	.15	.12
0.555 b/2	0	.44	.40	.34	.22	.09	- - -	- - -	- - -	- - -	- - -
	1.5	-.12	-.28	-.43	-.62	-.83	-.02	.09	.21	.29	.36
	4.0	-.19	-.32	-.43	-.56	-.71	-.04	.04	.13	.20	.26
	7.0	-.25	-.35	-.45	-.57	-.68	-.06	0	.08	.14	.20
	10.0	-.28	-.38	-.45	-.56	-.65	-.06	-.02	.05	.11	.16
	15.0	-.32	-.42	-.48	-.56	-.62	-.06	-.03	.04	.08	.13
	20.0	-.39	-.48	-.54	-.62	-.67	-.06	-.04	.03	.06	.10
	25.0	-.41	-.50	-.54	-.62	-.67	-.07	-.04	.01	.05	.08
	30.0	-.44	-.52	-.57	-.64	-.68	-.06	-.04	.01	.04	.07
	35.0	-.48	-.57	-.61	-.68	-.72	-.07	-.05	0	.03	.06
	40.0	-.49	-.59	-.65	-.71	-.75	-.07	-.06	-.01	.02	.04
	45.0	-.50	-.59	-.67	-.75	-.81	-.06	-.05	-.01	.01	.03
	50.0	-.46	-.55	-.62	-.71	-.85	-.05	-.05	0	.01	.03
	60.0	-.37	-.40	-.40	-.63	-.39	-.01	-.01	.04	.05	.06
	70.0	-.26	-.29	-.25	-.20	-.22	.05	.05	.07	.08	.08
	80.0	-.15	-.18	-.16	-.13	-.11	.10	.10	.12	.12	.11
	90.0	.01	-.01	.01	.02	.01	.12	.11	.13	.13	.11
	95.0	.09	.07	.09	.09	.06	.14	.13	.15	.15	.12

TABLE IX.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.707 b/2	0	0.46	0.43	0.32	0.18	0.02	- - -	- - -	- - -	- - -	- - -
	1.5	-.10	-.29	-.47	-.69	-1.02	-0.06	0.09	0.22	0.30	0.36
	4.0	-.20	-.35	-.49	-.66	-.91	-.07	.02	.13	.20	.26
	7.0	-.27	-.40	-.52	-.66	-.81	-.07	-.01	.08	.14	.19
	10.0	-.29	-.41	-.51	-.64	-.70	-.08	-.02	.06	.11	.15
	15.0	-.34	-.45	-.53	-.63	-.69	-.07	-.03	.04	.08	.12
	20.0	-.38	-.50	-.58	-.68	-.76	-.07	-.04	.02	.06	.10
	25.0	-.40	-.51	-.59	-.68	-.75	-.07	-.04	.01	.04	.07
	30.0	-.42	-.53	-.61	-.70	-.75	-.07	-.05	0	.03	.05
	35.0	-.44	-.54	-.64	-.74	-.80	-.07	-.06	-.01	.02	.04
	40.0	-.45	-.53	-.60	-.74	-.84	-.08	-.06	-.02	.01	.02
	45.0	-.47	-.53	-.57	-.70	-.85	-.07	-.06	-.02	0	.02
	50.0	-.45	-.50	-.53	-.66	-.43	-.05	-.05	-.02	0	.01
	60.0	-.34	-.36	-.29	-.22	-.26	-.01	-.02	.01	.03	.03
	70.0	-.23	-.25	-.24	-.24	-.19	.06	.05	.06	.06	.05
	80.0	-.13	-.15	-.14	-.15	-.09	.11	.09	.10	.10	.08
	90.0	.02	.01	.02	.02	.02	.13	.12	.13	.12	.10
	95.0	.09	.08	.09	.08	.05	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	.48	.45	.34	.19	.05	- - -	- - -	- - -	- - -	- - -
	1.5	-.08	-.25	-.48	-.74	-1.03	-.08	.09	.22	.30	.36
	4.0	-.19	-.33	-.50	-.67	-.95	-.10	.02	.11	.18	.24
	7.0	-.25	-.37	-.52	-.67	-.86	-.09	0	.07	.13	.18
	10.0	-.28	-.38	-.52	-.65	-.71	-.09	-.01	.04	.09	.14
	15.0	-.32	-.42	-.54	-.65	-.72	-.09	-.03	.02	.06	.10
	20.0	-.37	-.45	-.58	-.69	-.77	-.09	-.04	0	.03	.07
	25.0	-.38	-.45	-.59	-.70	-.78	-.10	-.04	-.01	.01	.04
	30.0	-.42	-.48	-.60	-.71	-.77	-.10	-.06	-.03	-.01	.01
	35.0	-.45	-.50	-.58	-.73	-.81	-.10	-.06	-.04	-.02	-.01
	40.0	-.45	-.48	-.53	-.65	-.59	-.09	-.07	-.05	-.04	-.03
	45.0	-.42	-.45	-.44	-.41	-.31	-.08	-.06	-.05	-.04	-.03
	50.0	-.39	-.39	-.35	-.30	-.31	-.06	-.04	-.04	-.04	-.03
	60.0	-.29	-.29	-.32	-.32	-.28	0	-.02	-.01	0	0
	70.0	-.20	-.20	-.21	-.23	-.19	.05	.06	.05	.03	.02
	80.0	-.11	-.11	-.12	-.13	-.09	.11	.11	.10	.08	.06
	90.0	.03	.04	.02	0	.02	.12	.12	.11	.10	.08
	95.0	.09	.10	.09	.07	.06	.14	.14	.12	.11	.09
0.924 b/2	0	.36	.42	.41	.36	.27	- - -	- - -	- - -	- - -	- - -
	1.5	-.05	-.23	-.47	-.73	-1.06	-.14	.05	.19	.27	.34
	4.0	-.17	-.30	-.49	-.66	-.97	- - -	- - -	- - -	- - -	- - -
	7.0	-.24	-.35	-.51	-.67	-.89	-.14	-.04	.03	.09	.13
	10.0	-.29	-.39	-.53	-.67	-.75	-.15	-.07	-.01	.04	.07
	15.0	-.36	-.44	-.57	-.68	-.75	-.14	-.09	-.05	-.01	.01
	20.0	-.39	-.44	-.54	-.70	-.83	-.14	-.10	-.09	-.07	-.06
	25.0	-.38	-.41	-.49	-.74	-.70	-.12	-.10	-.09	-.08	-.07
	30.0	-.36	-.38	-.40	-.34	-.34	-.11	-.09	-.09	-.09	-.09
	35.0	-.36	-.38	-.37	-.32	-.32	-.10	-.08	-.08	-.08	-.09
	40.0	-.34	-.36	-.36	-.39	-.39	-.09	-.08	-.08	-.08	-.09
	45.0	-.33	-.35	-.38	-.41	-.40	-.08	-.06	-.07	-.08	-.08
	50.0	-.29	-.30	-.34	-.38	-.37	-.05	-.05	-.06	-.06	-.08
	60.0	-.22	-.23	-.25	-.28	-.28	-.01	.01	-.03	-.04	-.05
	70.0	-.14	-.15	-.18	-.21	-.21	.04	.03	.02	0	-.02
	80.0	-.08	-.09	-.11	-.15	-.16	.09	.08	.06	.04	.03
	90.0	.03	.01	-.02	-.07	-.06	.11	.10	.08	.06	.04
	95.0	.09	.08	.05	.01	0	.13	.11	.10	.07	.05

TABLE IX.- CONTINUED

(c) α_u, 8°, 9°, 10°, 11°, 12°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	9°	10°	11°	12°	Lower surface, Angle of attack 8°	9°	10°	11°	12°
0.086 b/2	0	0.42	0.36	0.30	0.20	0.11	- - -	- - -	- - -	- - -	- - -
	1.5	-.26	-.34	-.44	-.55	-.69	0.36	0.42	0.47	0.50	0.54
	4.0	-.27	-.33	-.38	-.45	-.50	.29	.34	.39	.39	.45
	7.0	-.26	-.31	-.34	-.40	-.45	.23	.28	.33	.35	.38
	10.0	-.28	-.31	-.34	-.39	-.44	.20	.25	.29	.30	.35
	15.0	-.29	-.33	-.34	-.41	-.44	.18	.22	.27	.27	.30
	20.0	-.33	-.35	-.39	-.43	-.47	.16	.20	.24	.25	.28
	25.0	-.35	-.37	-.40	-.45	-.47	.13	.17	.21	.21	.25
	30.0	-.37	-.40	-.42	-.48	-.51	.12	.16	.20	.20	.23
	35.0	-.41	-.44	-.46	-.51	-.53	.10	.13	.18	.18	.21
	40.0	-.44	-.49	-.51	-.57	-.59	.08	.11	.15	.14	.19
	45.0	-.50	-.54	-.56	-.61	-.65	.07	.10	.14	.14	.17
	50.0	-.55	-.58	-.62	-.66	-.69	.06	.09	.12	.12	.14
	60.0	-.61	-.63	-.65	-.71	-.74	.07	.10	.13	.13	.14
	70.0	-.66	-.68	-.70	-.76	-.79	.09	.11	.14	.13	.14
	80.0	-.43	-.48	-.52	-.61	-.58	.11	.14	.16	.15	.17
	90.0	-.15	-.17	-.20	-.28	-.28	.10	.11	.11	.11	.11
	95.0	-.06	-.09	-.12	-.18	-.18	.06	.07	.09	.09	.07
0.195 b/2	0	.21	.11	0	-.11	-.22	- - -	- - -	- - -	- - -	- - -
	1.5	-.52	-.65	-.83	-.98	-1.11	.38	.43	.46	.49	.53
	4.0	-.45	-.55	-.60	-.80	-1.10	.29	.34	.38	.40	.45
	7.0	-.43	-.51	-.55	-.62	-.67	.23	.28	.31	.35	.39
	10.0	-.42	-.42	-.52	-.57	-.62	.20	.24	.27	.30	.35
	15.0	-.43	-.45	-.52	-.57	-.60	.16	.20	.24	.26	.30
	20.0	-.47	-.50	-.54	-.60	-.62	.14	.18	.21	.23	.27
	25.0	-.44	-.50	-.54	-.59	-.61	.12	.16	.18	.20	.24
	30.0	-.48	-.53	-.56	-.61	-.64	.10	.14	.16	.18	.21
	35.0	-.52	-.56	-.60	-.64	-.67	.09	.12	.14	.16	.19
	40.0	-.57	-.61	-.65	-.66	-.71	.07	.10	.12	.14	.17
	45.0	-.62	-.65	-.70	-.75	-.77	.06	.09	.11	.13	.16
	50.0	-.65	-.68	-.72	-.77	-.80	.05	.08	.10	.11	.14
	60.0	-.70	-.72	-.77	-.80	-.83	.07	.10	.11	.12	.15
	70.0	-.69	-.73	-.78	-.84	-.82	.10	.11	.12	.13	.15
	80.0	-.23	-.25	-.30	-.36	-.35	.12	.13	.13	.13	.15
	90.0	-.07	-.11	-.17	-.23	-.22	.11	.13	.11	.10	.11
	95.0	-.02	-.05	-.10	-.17	-.16	.08	.08	.08	.06	.07
0.382 b/2	0	.08	-.02	-.14	-.25	-.35	- - -	- - -	- - -	- - -	- - -
	1.5	-.86	-1.05	-1.22	-1.33	-1.43	.38	.43	.46	.48	.50
	4.0	-.74	-1.02	-1.23	-1.31	-1.40	.30	.35	.38	.40	.46
	7.0	-.64	-.71	-.89	-1.22	-1.35	.23	.28	.31	.34	.37
	10.0	-.59	-.67	-.69	-1.05	-1.26	.20	.24	.28	.30	.34
	15.0	-.60	-.65	-.71	-.74	-.90	.16	.20	.23	.25	.29
	20.0	-.63	-.69	-.74	-.79	-.82	.14	.18	.21	.22	.26
	25.0	-.63	-.68	-.74	-.79	-.81	.11	.15	.17	.19	.22
	30.0	-.65	-.70	-.74	-.79	-.81	.10	.13	.15	.17	.20
	35.0	-.69	-.73	-.78	-.82	-.85	.08	.11	.14	.15	.18
	40.0	-.72	-.76	-.81	-.85	-.88	.06	.09	.11	.12	.15
	45.0	-.78	-.82	-.86	-.91	-.93	.06	.08	.10	.11	.14
	50.0	-.80	-.84	-.89	-.95	-.97	.05	.07	.09	.10	.12
	60.0	-.81	-.81	-.82	-.91	-.73	.07	.09	.10	.10	.12
	70.0	-.30	-.32	-.34	-.39	-.34	.09	.10	.10	.10	.11
	80.0	-.16	-.20	-.24	-.28	-.24	.12	.12	.12	.11	.12
	90.0	-.05	-.11	-.17	-.22	-.20	.11	.10	.10	.08	.07
	95.0	-.01	-.06	-.13	-.19	-.19	.09	.08	.08	.05	.03
0.555 b/2	0	-.04	-.16	-.27	-.39	-.50	- - -	- - -	- - -	- - -	- - -
	1.5	-1.08	-1.29	-1.42	-1.49	-1.55	.40	.43	.46	.47	.48
	4.0	-1.02	-1.21	-1.32	-1.44	-1.53	.30	.35	.37	.39	.42
	7.0	-.80	-1.16	-1.30	-1.39	-1.47	.24	.28	.31	.33	.36
	10.0	-.69	-1.05	-1.29	-1.35	-1.45	.20	.24	.27	.29	.31
	15.0	-.69	-.72	-.88	-1.27	-1.42	.16	.19	.23	.25	.27
	20.0	-.76	-.81	-.81	-1.14	-1.37	.13	.16	.19	.21	.23
	25.0	-.74	-.82	-.85	-.89	-1.21	.11	.14	.17	.18	.20
	30.0	-.75	-.81	-.85	-.87	-.93	.09	.12	.15	.16	.18
	35.0	-.79	-.84	-.88	-.92	-.84	.07	.09	.12	.13	.15
	40.0	-.82	-.88	-.91	-.96	-.82	.06	.08	.10	.10	.12
	45.0	-.87	-.92	-.97	-1.01	-.85	.05	.06	.09	.09	.10
	50.0	-.91	-.83	-.69	-.73	-.78	.04	.05	.07	.07	.09
	60.0	-.36	-.36	-.38	-.38	-.38	.06	.07	.08	.07	.08
	70.0	-.23	-.26	-.26	-.29	-.48	.07	.07	.08	.07	.06
	80.0	-.13	-.19	-.21	-.25	-.37	.10	.07	.09	.07	.06
	90.0	-.05	-.13	-.17	-.22	-.30	.09	.07	.06	.04	.01
	95.0	-.01	-.10	-.15	-.20	-.26	.08	.06	.04	.01	-.03

TABLE IX.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	9°	10°	11°	12°	Lower surface, Angle of attack 8°	9°	10°	11°	12°
0.707 b/2	0	-0.11	-0.23	-0.35	-0.47	-0.60	- - -	- - -	- - -	- - -	- - -
	1.5	-1.27	-1.39	-1.47	-1.53	-1.46	0.40	0.42	0.45	0.45	0.46
	4.0	-1.15	-1.33	-1.43	-1.51	-1.16	.30	.33	.37	.38	.40
	7.0	-1.10	-1.25	-1.38	-1.46	-1.15	.23	.27	.30	.31	.32
	10.0	-1.01	-1.22	-1.34	-1.44	-1.14	.19	.22	.26	.27	.30
	15.0	-.68	-1.18	-1.29	-1.39	-1.11	.15	.18	.21	.22	.25
	20.0	-.81	-1.02	-1.29	-1.38	-1.05	.12	.15	.17	.18	.20
	25.0	-.85	-.83	-1.25	-1.36	-1.01	.10	.11	.14	.15	.17
	30.0	-.84	-.88	-1.19	-1.34	-.95	.07	.09	.11	.12	.14
	35.0	-.86	-.91	-.87	-1.30	-.90	.06	.07	.09	.09	.11
	40.0	-.90	-.90	-.88	-1.09	-.84	.03	.05	.06	.07	.07
	45.0	-.63	-.43	-.38	-.85	-.81	.02	.03	.05	.05	.05
	50.0	-.35	-.30	-.26	-.40	-.76	.01	.02	.03	.03	.03
	60.0	-.22	-.20	-.17	-.15	-.68	.02	.02	.02	.02	.01
	70.0	-.15	-.13	-.11	-.11	-.58	.04	.03	.02	.01	-.01
	80.0	-.08	-.08	-.07	-.09	-.51	.06	.05	.04	.02	-.01
	90.0	-.02	-.04	-.04	-.06	-.43	.06	.04	.03	.02	-.06
	95.0	0	-.03	-.03	-.05	-.38	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.08	-.24	-.34	-.46	-.55	- - -	- - -	- - -	- - -	- - -
	1.5	-1.28	-1.39	-1.47	-1.50	-1.21	.39	.41	.48	.43	.43
	4.0	-1.21	-1.34	-1.43	-1.49	-1.00	.28	.31	.34	.35	.37
	7.0	-1.13	-1.28	-1.39	-1.45	-1.00	.22	.25	.28	.29	.32
	10.0	-1.07	-1.25	-1.36	-1.42	-.95	.17	.20	.22	.25	.27
	15.0	-.91	-1.18	-1.31	-1.39	-.93	.13	.15	.18	.19	.21
	20.0	-.74	-1.14	-1.29	-1.34	-.89	.09	.11	.12	.14	.16
	25.0	-.85	-1.10	-1.25	-1.31	-.84	.06	.08	.10	.10	.12
	30.0	-.87	-.87	-1.19	-1.15	-.77	.03	.04	.06	.07	.08
	35.0	-.88	-.86	-.89	-.94	-.71	.01	.02	.03	.04	.05
	40.0	-.35	-.24	-.65	-.79	-.64	-.02	-.01	-.01	-.01	.01
	45.0	-.25	-.20	-.50	-.72	-.61	-.03	-.03	-.03	-.03	-.02
	50.0	-.27	-.22	-.36	-.64	-.56	-.04	-.04	-.05	-.05	-.04
	60.0	-.24	-.19	-.18	-.46	-.50	-.02	-.03	-.04	-.04	-.05
	70.0	-.16	-.12	-.14	-.30	-.44	.01	-.01	-.02	-.03	-.06
	80.0	-.06	-.06	-.09	-.18	-.40	.05	.03	.01	.01	-.05
	90.0	.01	-.01	-.04	-.10	-.36	.05	.03	.03	.02	-.10
	95.0	.03	0	0	-.04	-.34	.05	.03	.03	.04	-.13
0.924 b/2	0	.19	.12	0	-.09	-.13	- - -	- - -	- - -	- - -	- - -
	1.5	-1.27	-1.37	-1.45	-1.47	-1.19	.36	.38	.39	.39	.40
	4.0	-1.21	-1.32	-1.42	-1.45	-.97	- - -	- - -	- - -	- - -	- - -
	7.0	-1.15	-1.28	-1.38	-1.41	-.96	.17	.19	.21	.24	.26
	10.0	-1.10	-1.25	-1.34	-1.33	-.89	.11	.13	.15	.16	.19
	15.0	-1.03	-1.18	-1.29	-1.25	-.86	.03	.05	.07	.09	.11
	20.0	-.95	-1.12	-1.06	-1.08	-.78	-.04	-.04	-.02	-.01	.02
	25.0	-.72	-.81	-.86	-.96	-.72	-.07	-.07	-.07	-.05	-.02
	30.0	-.20	-.52	-.71	-.86	-.63	-.10	-.11	-.12	-.11	-.08
	35.0	-.26	-.36	-.61	-.78	-.57	-.10	-.11	-.12	-.12	-.10
	40.0	-.36	-.28	-.50	-.69	-.52	-.10	-.12	-.14	-.15	-.12
	45.0	-.39	-.27	-.42	-.64	-.49	-.09	-.11	-.13	-.13	-.12
	50.0	-.36	-.31	-.38	-.59	-.45	-.08	-.10	-.12	-.13	-.13
	60.0	-.28	-.28	-.32	- - -	- - -	-.06	-.07	-.09	-.10	-.12
	70.0	-.21	-.25	-.32	- - -	- - -	-.03	-.05	-.06	-.08	-.12
	80.0	-.17	-.20	-.28	-.44	-.37	.01	0	-.01	-.03	-.09
	90.0	-.08	-.16	-.27	-.43	-.36	.03	.02	-.01	-.04	-.11
	95.0	-.02	-.08	-.19	-.35	-.35	.04	.02	-.01	-.06	-.15

TABLE X.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.88; R, 4,000,000

(a) α_u, -2°, -1°, 0°, 1°, 2°

Spanwise station	Percent chord	Upper Surface, Angle of attack -2°	-1°	0°	1°	2°	Lower Surface, Angle of attack -2°	-1°	0°	1°	2°
0.086 b/2	0	0.39	0.44	0.49	0.52	0.55	---	---	---	---	---
	1.5	.38	.35	.30	.25	.19	-0.42	-0.30	-0.20	-0.12	-0.02
	4.0	.24	.20	.26	.11	.06	-.21	-.15	-.11	-.05	0
	7.0	.17	.13	.10	.06	.02	-.19	-.14	-.09	-.05	0
	10.0	.12	.09	.06	.01	-.02	-.19	-.14	-.10	-.06	-.02
	15.0	.07	.03	.01	-.03	-.07	-.16	-.13	-.08	-.05	-.01
	20.0	.02	-.01	-.04	-.08	-.11	-.18	-.14	-.10	-.07	-.03
	25.0	-.02	-.04	-.07	-.11	-.14	-.20	-.16	-.12	-.09	-.05
	30.0	-.05	-.09	-.11	-.15	-.18	-.21	-.17	-.13	-.10	-.06
	35.0	-.09	-.12	-.15	-.19	-.21	-.22	-.18	-.14	-.11	-.07
	40.0	-.14	-.17	-.20	-.24	-.26	-.24	-.20	-.16	-.13	-.10
	45.0	-.18	-.21	-.24	-.28	-.30	-.25	-.21	-.17	-.14	-.10
	50.0	-.21	-.25	-.27	-.31	-.34	-.25	-.21	-.18	-.15	-.11
	60.0	-.26	-.29	-.33	-.37	-.40	-.19	-.15	-.12	-.10	-.06
	70.0	-.26	-.29	-.33	-.37	-.42	-.11	-.09	-.05	-.05	-.02
	80.0	-.22	-.24	-.25	-.28	-.30	-.03	-.01	.01	.02	.04
	90.0	-.07	-.07	-.06	-.08	-.07	.02	.03	.04	.04	.06
	95.0	.01	.01	.01	0	.01	.04	.05	.05	.05	.06
0.195 b/2	0	.24	.31	.39	.44	.47	---	---	---	---	---
	1.5	.36	.30	.26	.19	.11	-.70	-.49	-.33	-.22	-.10
	4.0	.23	.17	.13	.06	.01	-.34	-.26	-.24	-.15	-.06
	7.0	.15	.09	.05	-.01	-.06	-.29	-.24	-.17	-.14	-.07
	10.0	.09	.04	.01	-.05	-.09	-.29	-.24	-.17	-.14	-.08
	15.0	.03	-.02	-.05	-.10	-.14	-.25	-.21	-.15	-.12	-.07
	20.0	-.02	-.07	-.11	-.16	-.20	-.25	-.21	-.16	-.13	-.08
	25.0	-.06	-.11	-.14	-.19	-.22	-.25	-.22	-.17	-.13	-.10
	30.0	-.11	-.15	-.18	-.23	-.26	-.26	-.22	-.17	-.14	-.10
	35.0	-.15	-.20	-.21	-.26	-.30	-.26	-.23	-.18	-.15	-.11
	40.0	-.19	-.24	-.26	-.31	-.35	-.27	-.23	-.18	-.16	-.12
	45.0	-.24	-.28	-.31	-.36	-.39	-.25	-.22	-.18	-.15	-.12
	50.0	-.26	-.31	-.35	-.39	-.43	-.23	-.21	-.17	-.15	-.11
	60.0	-.29	-.33	-.36	-.42	-.47	-.15	-.13	-.10	-.08	-.06
	70.0	-.26	-.29	-.31	-.35	-.42	-.07	-.06	-.03	-.02	.01
	80.0	-.18	-.19	-.19	-.22	-.21	.01	.01	.03	.04	.05
	90.0	-.02	-.03	-.02	-.04	-.03	.05	.04	.06	.06	.08
	95.0	.04	.04	.04	.04	.05	.07	.06	.08	.07	.09
0.382 b/2	0	.10	.19	.29	.37	.43	---	---	---	---	---
	1.5	.35	.29	.24	.16	.07	-.92	-.75	-.55	-.36	-.20
	4.0	.22	.15	.10	.02	-.05	-.70	-.46	-.31	-.25	-.14
	7.0	.11	.05	.01	-.07	-.14	-.58	-.37	-.28	-.22	-.14
	10.0	.07	.01	-.04	-.10	-.16	-.40	-.35	-.26	-.20	-.13
	15.0	-.01	-.07	-.11	-.18	-.24	-.38	-.30	-.24	-.18	-.12
	20.0	-.06	-.13	-.16	-.23	-.28	-.34	-.28	-.21	-.17	-.12
	25.0	-.11	-.17	-.21	-.26	-.31	-.31	-.26	-.21	-.17	-.12
	30.0	-.15	-.21	-.24	-.30	-.35	-.29	-.24	-.19	-.17	-.12
	35.0	-.20	-.25	-.29	-.34	-.40	-.27	-.24	-.19	-.16	-.12
	40.0	-.24	-.29	-.33	-.39	-.44	-.25	-.22	-.19	-.16	-.12
	45.0	-.27	-.33	-.36	-.43	-.48	-.23	-.20	-.17	-.15	-.12
	50.0	-.29	-.34	-.37	-.46	-.51	-.21	-.19	-.15	-.13	-.11
	60.0	-.28	-.31	-.34	-.36	-.44	-.11	-.10	-.07	-.06	-.03
	70.0	-.22	-.25	-.26	-.29	-.28	-.04	-.05	-.01	-.01	.02
	80.0	-.14	-.16	-.16	-.18	-.18	.03	.04	.05	.05	.07
	90.0	0	-.01	-.01	-.01	-.01	.08	.07	.08	.07	.10
	95.0	.06	.05	.06	.05	.06	.10	.09	.10	.09	.11
0.555 b/2	0	.06	.15	.27	.35	.42	---	---	---	---	---
	1.5	.34	.29	.22	.13	.02	-.93	-.88	-.67	-.42	-.21
	4.0	.23	.16	.11	.02	-.08	-.86	-.66	-.38	-.31	-.17
	7.0	.13	.07	.01	-.07	-.15	-.81	-.52	-.31	-.25	-.16
	10.0	.07	.01	-.04	-.12	-.20	-.64	-.39	-.30	-.22	-.15
	15.0	0	-.05	-.11	-.19	-.25	-.49	-.33	-.25	-.19	-.13
	20.0	-.07	-.12	-.18	-.25	-.32	-.37	-.28	-.21	-.17	-.12
	25.0	-.11	-.15	-.21	-.29	-.35	-.32	-.26	-.20	-.17	-.12
	30.0	-.15	-.20	-.25	-.31	-.39	-.28	-.24	-.19	-.15	-.12
	35.0	-.20	-.24	-.28	-.35	-.42	-.26	-.23	-.18	-.15	-.12
	40.0	-.23	-.27	-.32	-.38	-.47	-.24	-.20	-.17	-.14	-.11
	45.0	-.26	-.29	-.33	-.39	-.49	-.21	-.18	-.15	-.13	-.10
	50.0	-.28	-.30	-.34	-.40	-.48	-.18	-.15	-.13	-.11	-.08
	60.0	-.25	-.27	-.30	-.34	-.35	-.09	-.07	-.05	-.05	-.02
	70.0	-.21	-.21	-.23	-.25	-.28	-.01	0	.01	.01	.03
	80.0	-.13	-.14	-.14	-.15	-.16	.05	.06	.07	.07	.09
	90.0	0	0	.01	.01	.02	.09	.10	.10	.10	.11
	95.0	.07	.08	.07	.07	.08	.11	.12	.12	.12	.13

NACA

[redacted]

TABLE X.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper Surface, Angle of attack -2°	-1°	0°	1°	2°	Lower Surface, Angle of attack -2°	-1°	0°	1°	2°
0.707 b/2	0	-0.05	0.06	0.20	0.35	0.44	---	---	---	---	---
	1.5	.38	.33	.27	.17	.05	-0.86	-0.90	-0.79	-0.53	-0.28
	4.0	.26	.20	.14	.03	-.07	-.85	-.81	-.65	-.42	-.22
	7.0	.16	.10	.04	-.06	-.16	-.84	-.72	-.39	-.26	-.19
	10.0	.10	.05	-.02	-.11	-.20	-.78	-.49	-.34	-.25	-.18
	15.0	.02	-.03	-.09	-.17	-.26	-.71	-.38	-.27	-.20	-.14
	20.0	-.04	-.09	-.15	-.23	-.31	-.58	-.31	-.24	-.19	-.13
	25.0	-.09	-.14	-.19	-.26	-.35	-.44	-.28	-.21	-.18	-.13
	30.0	-.14	-.19	-.23	-.30	-.37	-.32	-.25	-.20	-.17	-.12
	35.0	-.18	-.22	-.27	-.33	-.38	-.24	-.22	-.19	-.16	-.11
	40.0	-.21	-.25	-.30	-.36	-.39	-.20	-.20	-.17	-.15	-.11
	45.0	-.25	-.29	-.32	-.36	-.44	-.16	-.17	-.14	-.13	-.10
	50.0	-.27	-.30	-.34	-.36	-.45	-.13	-.13	-.11	-.10	-.08
	60.0	-.25	-.28	-.30	-.33	-.34	-.05	-.05	-.04	-.04	-.03
	70.0	-.20	-.20	-.20	-.22	-.22	.02	.03	.03	.02	.04
	80.0	-.11	-.11	-.11	-.12	-.12	.08	.08	.10	.09	.09
	90.0	.02	.03	.03	.02	.03	.12	.12	.12	.12	.12
	95.0	.08	.08	.09	.09	.09	---	---	---	---	---
0.831 b/2	0	.06	.14	.27	.39	.46	---	---	---	---	---
	1.5	.38	.35	.29	.19	.09	-.75	-.86	-.83	-.60	-.33
	4.0	.26	.21	.15	.06	-.05	-.66	-.76	-.65	-.49	-.25
	7.0	.16	.11	.05	-.04	-.14	-.67	-.80	-.50	-.26	-.20
	10.0	.11	.06	0	-.09	-.19	-.60	-.57	-.37	-.27	-.17
	15.0	.02	-.03	-.08	-.16	-.23	-.60	-.46	-.30	-.24	-.16
	20.0	-.04	-.10	-.14	-.22	-.29	-.48	-.36	-.27	-.20	-.15
	25.0	-.09	-.14	-.18	-.26	-.31	-.48	-.30	-.24	-.19	-.14
	30.0	-.14	-.20	-.23	-.30	-.35	-.36	-.26	-.21	-.18	-.13
	35.0	-.19	-.24	-.28	-.34	-.41	-.32	-.21	-.18	-.17	-.12
	40.0	-.25	-.29	-.32	-.38	-.44	-.25	-.17	-.15	-.14	-.11
	45.0	-.28	-.32	-.35	-.39	-.44	-.19	-.13	-.11	-.11	-.09
	50.0	-.29	-.32	-.33	-.36	-.36	-.13	-.11	-.08	-.08	-.06
	60.0	-.24	-.25	-.25	-.26	-.27	-.05	-.02	-.01	-.02	-.01
	70.0	-.16	-.18	-.18	-.19	-.19	.01	.03	.05	.03	.05
	80.0	-.10	-.09	-.09	-.09	-.10	.07	.09	.10	.10	.10
	90.0	.03	.04	.05	.04	.05	.10	.12	.13	.13	.14
	95.0	.09	.09	.10	.10	.11	.12	.13	.15	.15	.14
0.924 b/2	0	-.67	-.50	-.30	-.06	.19	---	---	---	---	---
	1.5	.38	.34	.29	.21	.11	-1.02	-.96	-.90	-.73	-.42
	4.0	.25	.20	.15	.06	-.04	---	---	---	---	---
	7.0	.16	.11	.05	-.04	-.13	-1.05	-.90	-.69	-.34	-.25
	10.0	.09	.03	-.03	-.11	-.19	-.95	-.74	-.44	-.33	-.24
	15.0	-.02	-.08	-.13	-.20	-.27	-.94	-.64	-.35	-.29	-.21
	20.0	-.13	-.20	-.23	-.30	-.35	-.64	-.38	-.24	-.19	-.17
	25.0	-.18	-.23	-.26	-.31	-.36	-.13	-.21	-.17	-.17	-.13
	30.0	-.22	-.26	-.27	-.31	-.35	-.09	-.16	-.16	-.14	-.13
	35.0	-.24	-.27	-.28	-.31	-.34	-.10	-.12	-.13	-.13	-.11
	40.0	-.24	-.25	-.26	-.30	-.31	-.09	-.11	-.12	-.12	-.10
	45.0	-.24	-.25	-.26	-.29	-.30	-.07	-.08	-.09	-.10	-.08
	50.0	-.21	-.24	-.24	-.26	-.26	-.04	-.06	-.06	-.06	-.05
	60.0	---	---	---	---	---	-.02	0	0	-.01	0
	70.0	---	---	---	---	---	.01	.05	.06	.05	.05
	80.0	-.05	-.05	-.04	-.06	-.06	.05	.09	.10	.09	.11
	90.0	.05	.06	.06	.05	.05	.08	.11	.14	.13	.12
	95.0	.08	.09	.11	.11	.11	.09	.13	.15	.14	.14

NACA

TABLE X.- CONTINUED

(b) α_u, 3°, 4°, 5°, 6°, 7°

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.086 b/2	0	0.55	0.56	0.55	0.53	0.49	---	---	---	---	---
	1.5	.13	.07	0	-.07	-.16	0.05	0.12	0.19	0.26	0.32
	4.0	.02	-.03	-.08	-.14	-.20	.05	.11	.16	.20	.25
	7.0	-.03	-.06	-.11	-.15	-.20	.03	.08	.12	.16	.20
	10.0	-.06	-.10	-.15	-.18	-.22	.02	.06	.10	.14	.17
	15.0	-.10	-.13	-.17	-.20	-.25	.02	.06	.09	.12	.15
	20.0	-.15	-.18	-.21	-.25	-.28	0	.04	.07	.10	.13
	25.0	-.18	-.20	-.24	-.27	-.30	-.02	.01	.05	.07	.11
	30.0	-.21	-.24	-.27	-.30	-.33	-.03	0	.03	.06	.09
	35.0	-.25	-.28	-.30	-.34	-.37	-.05	-.01	.01	.05	.07
	40.0	-.30	-.32	-.36	-.39	-.42	-.07	-.03	0	.03	.05
	45.0	-.34	-.37	-.40	-.44	-.47	-.07	-.04	-.01	.02	.04
	50.0	-.38	-.40	-.44	-.47	-.51	-.08	-.05	-.03	0	.03
	60.0	-.44	-.47	-.50	-.53	-.56	-.04	-.01	.01	.03	.05
	70.0	-.48	-.51	-.55	-.58	-.62	0	.02	.04	.06	.07
	80.0	-.36	-.39	-.45	-.52	-.56	.05	.07	.08	.10	.11
	90.0	-.09	-.10	-.12	-.15	-.17	.06	.07	.08	.08	.09
	95.0	-.01	-.01	-.03	-.06	-.09	.06	.07	.07	.06	.06
0.195 b/2	0	.50	.49	.46	.42	.33	---	---	---	---	---
	1.5	.04	-.04	-.15	-.25	-.37	0	.09	.18	.26	.31
	4.0	-.05	-.11	-.19	-.26	-.35	0	.07	.13	.19	.24
	7.0	-.11	-.17	-.23	-.29	-.35	-.01	.04	.09	.15	.19
	10.0	-.14	-.19	-.24	-.29	-.35	-.03	.02	.07	.11	.15
	15.0	-.19	-.23	-.27	-.31	-.37	-.03	.01	.06	.09	.12
	20.0	-.24	-.27	-.32	-.36	-.41	-.04	0	.03	.07	.10
	25.0	-.26	-.29	-.34	-.36	-.41	-.06	-.02	.02	.06	.08
	30.0	-.30	-.33	-.37	-.41	-.46	-.06	-.03	.01	.04	.07
	35.0	-.34	-.37	-.41	-.44	-.49	-.08	-.05	-.01	.03	.06
	40.0	-.39	-.42	-.46	-.49	-.54	-.09	-.05	-.02	.01	.04
	45.0	-.43	-.46	-.51	-.53	-.58	-.09	-.05	-.03	.01	.03
	50.0	-.46	-.50	-.54	-.56	-.60	-.09	-.05	-.03	.01	.02
	60.0	-.51	-.54	-.59	-.62	-.66	-.04	-.02	.01	.05	.05
	70.0	-.48	-.52	-.59	-.64	-.69	.03	.05	.06	.07	.08
	80.0	-.20	-.24	-.36	-.48	-.54	.07	.08	.09	.10	.10
	90.0	-.02	-.02	-.02	-.01	-.03	.08	.10	.09	.10	.10
	95.0	.05	.06	.05	.06	.03	.10	.10	.09	.10	.09
0.382 b/2	0	.42	.45	.41	.35	.24	---	---	---	---	---
	1.5	-.03	-.13	-.27	-.40	-.59	-.05	.06	.17	.26	.31
	4.0	-.14	-.22	-.33	-.42	-.55	-.04	.04	.12	.19	.24
	7.0	-.21	-.28	-.36	-.44	-.55	-.06	0	.07	.13	.17
	10.0	-.23	-.28	-.35	-.42	-.53	-.07	-.01	.05	.10	.15
	15.0	-.28	-.34	-.40	-.46	-.53	-.07	-.02	.03	.07	.11
	20.0	-.34	-.39	-.46	-.50	-.57	-.08	-.03	.01	.06	.09
	25.0	-.36	-.41	-.47	-.51	-.58	-.08	-.04	0	.04	.07
	30.0	-.40	-.44	-.50	-.54	-.60	-.08	-.04	-.01	.03	.07
	35.0	-.44	-.48	-.53	-.58	-.64	-.09	-.04	-.02	.02	.05
	40.0	-.49	-.53	-.58	-.61	-.67	-.09	-.05	-.03	.02	.03
	45.0	-.54	-.58	-.63	-.67	-.73	-.10	-.05	-.03	.01	.03
	50.0	-.58	-.62	-.67	-.70	-.76	-.08	-.04	-.03	.01	.02
	60.0	-.57	-.59	-.65	-.71	-.81	-.04	-.01	.02	.05	.05
	70.0	-.23	-.44	-.61	-.68	-.71	.02	.05	.06	.07	.08
	80.0	-.18	-.14	-.12	-.11	-.13	.09	.10	.11	.12	.11
	90.0	-.01	.01	.01	.04	.02	.11	.12	.13	.14	.12
	95.0	.07	.08	.09	.09	.06	.12	.14	.15	.15	.12
0.555 b/2	0	.45	.42	.36	.27	.13	---	---	---	---	---
	1.5	-.10	-.24	-.40	-.57	-.80	-.04	.08	.20	.29	.35
	4.0	-.18	-.29	-.40	-.52	-.69	-.05	.03	.12	.19	.25
	7.0	-.25	-.34	-.43	-.54	-.67	-.07	0	.07	.13	.18
	10.0	-.28	-.35	-.44	-.53	-.64	-.08	-.02	.05	.10	.15
	15.0	-.32	-.40	-.46	-.53	-.63	-.07	-.02	.03	.08	.12
	20.0	-.39	-.46	-.52	-.59	-.67	-.07	-.03	.02	.06	.10
	25.0	-.41	-.48	-.54	-.60	-.67	-.08	-.04	.01	.05	.08
	30.0	-.45	-.51	-.56	-.61	-.68	-.07	-.04	0	.04	.07
	35.0	-.50	-.56	-.61	-.66	-.72	-.08	-.05	-.01	.03	.05
	40.0	-.55	-.61	-.65	-.70	-.75	-.08	-.05	-.02	.02	.04
	45.0	-.60	-.66	-.70	-.75	-.81	-.07	-.04	-.02	.01	.03
	50.0	-.60	-.66	-.72	-.77	-.85	-.06	-.04	-.01	.01	.03
	60.0	-.33	-.59	-.67	-.73	-.87	-.02	0	.02	.05	.06
	70.0	-.25	-.21	-.18	-.33	-.34	.05	.06	.07	.08	.08
	80.0	-.15	-.14	-.10	-.08	-.17	.10	.11	.11	.12	.12
	90.0	.01	.01	.03	.05	0	.12	.13	.13	.14	.13
	95.0	.02	.08	.10	.11	.08	.15	.15	.15	.15	.14

TABLE X.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.707 b/2	0	0.46	0.44	0.35	0.22	0.07	---	---	---	---	---
	1.5	-.09	-.25	-.43	-.64	-.98	-0.07	0.08	0.20	0.29	0.35
	4.0	-.20	-.32	-.46	-.62	-.85	-.09	.02	.11	.19	.25
	7.0	-.27	-.38	-.50	-.63	-.79	-.09	-.01	.07	.13	.18
	10.0	-.30	-.40	-.50	-.61	-.75	-.09	-.02	.05	.10	.15
	15.0	-.35	-.44	-.52	-.61	-.67	-.08	-.03	.03	.07	.11
	20.0	-.41	-.50	-.58	-.66	-.75	-.08	-.04	.01	.06	.09
	25.0	-.44	-.52	-.59	-.67	-.77	-.08	-.04	0	.04	.06
	30.0	-.48	-.56	-.62	-.69	-.76	-.08	-.04	-.01	.02	.05
	35.0	-.53	-.60	-.67	-.73	-.79	-.08	-.05	-.02	.01	.04
	40.0	-.53	-.64	-.70	-.76	-.84	-.08	-.06	-.03	0	.02
	45.0	-.50	-.62	-.68	-.73	-.89	-.08	-.05	-.03	0	.01
	50.0	-.42	-.57	-.65	-.71	-.78	-.06	-.04	-.03	0	0
	60.0	-.36	-.24	-.35	-.48	-.35	-.02	-.02	0	.02	.02
	70.0	-.23	-.23	-.17	-.15	-.24	.05	.06	.06	.06	.05
	80.0	-.13	-.13	-.10	-.07	-.15	.10	.10	.11	.10	.08
	90.0	.03	.02	.03	.03	-.05	.13	.13	.13	.12	.09
	95.0	.10	.09	.10	.09	-.01	---	---	---	---	---
0.831 b/2	0	.42	.45	.37	.24	.10	---	---	---	---	---
	1.5	-.07	-.24	-.44	-.70	-1.02	-.11	.07	.20	.29	.35
	4.0	-.20	-.32	-.47	-.65	-.91	-.11	.01	.10	.17	.23
	7.0	-.26	-.38	-.50	-.65	-.83	-.10	-.01	.06	.12	.17
	10.0	-.29	-.39	-.51	-.64	-.78	-.10	-.03	.04	.09	.13
	15.0	-.36	-.44	-.53	-.64	-.69	-.10	-.04	.01	.04	.09
	20.0	-.40	-.49	-.58	-.69	-.76	-.10	-.04	-.01	.02	.05
	25.0	-.43	-.51	-.61	-.70	-.80	-.10	-.05	-.03	.01	.03
	30.0	-.46	-.56	-.63	-.72	-.81	-.10	-.07	-.04	-.02	.01
	35.0	-.47	-.60	-.68	-.76	-.82	-.10	-.08	-.04	-.03	-.01
	40.0	-.46	-.57	-.67	-.76	-.87	-.10	-.08	-.06	-.05	-.05
	45.0	-.44	-.51	-.65	-.74	-.54	-.09	-.07	-.05	-.05	-.05
	50.0	-.39	-.30	-.40	-.56	-.32	-.07	-.06	-.04	-.05	-.05
	60.0	-.29	-.29	-.22	-.18	-.23	-.01	-.04	-.01	-.01	-.01
	70.0	-.20	-.20	-.19	-.18	-.15	.05	.05	.05	.02	.01
	80.0	-.10	-.11	-.10	-.10	-.08	.09	.10	.10	.08	.05
	90.0	.05	.03	.04	.02	-.01	.12	.12	.12	.10	.05
	95.0	.10	.09	.09	.08	0	.14	.14	.13	.11	.04
0.924 b/2	0	.36	.41	.41	.36	.28	---	---	---	---	---
	1.5	-.05	-.24	-.45	-.71	-1.05	-.16	.02	.18	.27	.32
	4.0	-.18	-.32	-.48	-.65	-.94	---	---	---	---	---
	7.0	-.25	-.37	-.51	-.66	-.87	-.15	-.05	.02	.07	.12
	10.0	-.30	-.40	-.54	-.66	-.81	-.16	-.10	-.02	.02	.05
	15.0	-.38	-.47	-.58	-.69	-.74	-.17	-.11	-.06	-.04	0
	20.0	-.44	-.55	-.65	-.76	-.82	-.15	-.13	-.10	-.10	-.08
	25.0	-.41	-.52	-.62	-.74	-.85	-.13	-.12	-.10	-.10	-.10
	30.0	-.36	-.42	-.54	-.67	-.75	-.12	-.11	-.10	-.11	-.12
	35.0	-.36	-.38	-.48	-.62	-.65	-.11	-.10	-.09	-.10	-.11
	40.0	-.35	-.29	-.25	-.29	-.25	-.10	-.10	-.09	-.10	-.11
	45.0	-.34	-.33	-.29	-.27	-.29	-.08	-.09	-.08	-.09	-.10
	50.0	-.29	-.33	-.33	-.32	-.34	-.06	-.06	-.06	-.08	-.10
	60.0	---	---	---	---	---	-.01	0	-.02	-.05	-.06
	70.0	---	---	---	---	---	.04	.03	.02	-.01	-.04
	80.0	-.08	-.09	-.11	-.15	-.13	.09	.08	.07	.04	.01
	90.0	.03	.01	-.02	-.07	-.05	.11	.10	.07	.06	.01
	95.0	.09	.08	.05	.02	-.01	.12	.11	.10	.07	.03

TABLE X.- CONTINUED

(c) α_u, 8°, 10°, 12°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°			Lower surface, Angle of attack 8°	10°	12°		
0.086 b/2	0	0.45	0.31	0.14			---	---	---		
	1.5	-.24	-.43	-.69			0.37	0.45	0.55		
	4.0	-.25	-.38	-.48			.29	.36	.46		
	7.0	-.24	-.34	-.43			.24	.30	.39		
	10.0	-.26	-.34	-.42			.21	.27	.35		
	15.0	-.28	-.34	-.42			.19	.25	.32		
	20.0	-.31	-.38	-.46			.16	.22	.29		
	25.0	-.33	-.40	-.46			.14	.19	.26		
	30.0	-.36	-.44	-.49			.12	.17	.24		
	35.0	-.39	-.45	-.52			.10	.15	.21		
	40.0	-.45	-.52	-.57			.08	.12	.19		
	45.0	-.50	-.57	-.63			.07	.11	.18		
	50.0	-.52	-.61	-.67			.05	.09	.16		
	60.0	-.58	-.66	-.72			.07	.10	.16		
	70.0	-.64	-.71	-.76			.08	.10	.16		
	80.0	-.57	-.69	-.66			.11	.13	.17		
	90.0	-.19	-.30	-.31			.09	.09	.12		
	95.0	-.11	-.21	-.22			.06	.04	.07		
0.195 b/2	0	.25	.05	-.20			---	---	---		
	1.5	-.48	-.79	-1.10			.36	.46	.54		
	4.0	-.42	-.64	-1.11			.29	.38	.45		
	7.0	-.41	-.52	-.66			.23	.31	.39		
	10.0	-.40	-.51	-.61			.20	.27	.34		
	15.0	-.41	-.50	-.59			.17	.24	.31		
	20.0	-.44	-.53	-.61			.14	.20	.27		
	25.0	-.45	-.52	-.60			.11	.18	.25		
	30.0	-.47	-.55	-.62			.10	.16	.22		
	35.0	-.50	-.58	-.66			.09	.13	.20		
	40.0	-.55	-.64	-.71			.07	.11	.17		
	45.0	-.60	-.69	-.76			.06	.10	.16		
	50.0	-.61	-.71	-.79			.05	.09	.14		
	60.0	-.68	-.75	-.82			.07	.10	.15		
	70.0	-.73	-.81	-.85			.09	.10	.15		
	80.0	-.30	-.41	-.39			.11	.12	.15		
	90.0	-.12	-.26	-.27			.10	.08	.11		
	95.0	-.05	-.20	-.20			.07	.05	.07		
0.382 b/2	0	.13	-.08	-.32			---	---	---		
	1.5	-.80	-1.18	-1.42			.38	.45	.51		
	4.0	-.72	-1.17	-1.38			.29	.37	.44		
	7.0	-.63	-.94	-1.34			.22	.30	.38		
	10.0	-.56	-.64	-1.29			.19	.26	.34		
	15.0	-.58	-.70	-.91			.15	.22	.29		
	20.0	-.61	-.72	-.81			.12	.19	.27		
	25.0	-.61	-.71	-.80			.11	.16	.22		
	30.0	-.63	-.72	-.80			.09	.13	.20		
	35.0	-.67	-.76	-.84			.08	.12	.19		
	40.0	-.70	-.79	-.88			.06	.10	.15		
	45.0	-.75	-.85	-.92			.05	.09	.14		
	50.0	-.78	-.88	-.96			.04	.06	.12		
	60.0	-.84	-.90	-.92			.06	.08	.12		
	70.0	-.36	-.42	-.39			.08	.07	.11		
	80.0	-.25	-.34	-.28			.10	.10	.12		
	90.0	-.14	-.29	-.24			.10	.06	.06		
	95.0	-.07	-.26	-.23			.08	.03	.02		
0.555 b/2	0	.01	-.20	-.46			---	---	---		
	1.5	-1.05	-1.36	-1.53			.40	.45	.49		
	4.0	-.93	-1.25	-1.50			.29	.36	.43		
	7.0	-.81	-1.20	-1.44			.23	.30	.37		
	10.0	-.66	-1.24	-1.42			.19	.26	.32		
	15.0	-.67	-.92	-1.40			.15	.21	.28		
	20.0	-.75	-.79	-1.38			.12	.18	.24		
	25.0	-.74	-.82	-1.25			.11	.15	.21		
	30.0	-.73	-.83	-.94			.09	.13	.18		
	35.0	-.76	-.85	-.86			.07	.11	.15		
	40.0	-.81	-.90	-.85			.05	.08	.13		
	45.0	-.85	-.94	-.88			.04	.07	.11		
	50.0	-.91	-.95	-.75			.03	.06	.09		
	60.0	-.39	-.39	-.51			.05	.06	.08		
	70.0	-.32	-.34	-.44			.06	.06	.07		
	80.0	-.25	-.33	-.38			.09	.07	.06		
	90.0	-.16	-.30	-.33			.07	.03	.01		
	95.0	-.11	-.28	-.30			.06	-.01	-.04		

TABLE X.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°			Lower surface, Angle of attack 8°	10°	12°		
0.707 b/2	0	-0.04	-0.27	-0.55			---	---	---		
	1.5	-1.20	-1.40	-1.45			0.39	0.43	0.46		
	4.0	-1.09	-1.35	-1.22			.29	.35	.40		
	7.0	-1.02	-1.32	-1.22			.22	.28	.35		
	10.0	-.96	-1.29	-1.19			.18	.24	.30		
	15.0	-.67	-1.23	-1.14			.14	.19	.25		
	20.0	-.78	-1.21	-1.04			.11	.15	.20		
	25.0	-.84	-1.20	-.99			.08	.12	.17		
	30.0	-.84	-1.16	-.94			.06	.10	.13		
	35.0	-.84	-.90	-.89			.05	.07	.10		
	40.0	-.88	-.85	-.83			.02	.04	.07		
	45.0	-.47	-.37	-.80			.01	.03	.06		
	50.0	-.32	-.28	-.77			0	.01	.03		
	60.0	-.25	-.20	-.68			0	0	.01		
	70.0	-.18	-.14	-.59			.01	-.01	-.01		
	80.0	-.14	-.12	-.51			.04	0	-.01		
	90.0	-.11	-.11	-.44			.02	-.02	-.06		
	95.0	-.11	-.12	-.40			---	---	---		
0.831 b/2	0	0	-.26	-.53			---	---	---		
	1.5	-1.22	-1.40	-1.19			.38	.41	.44		
	4.0	-1.14	-1.36	-.93			.26	.32	.38		
	7.0	-1.06	-1.33	-.93			.20	.26	.31		
	10.0	-1.02	-1.30	-.90			.16	.20	.27		
	15.0	-.91	-1.26	-.88			.11	.15	.21		
	20.0	-.75	-1.24	-.85			.07	.11	.15		
	25.0	-.83	-1.22	-.82			.05	.07	.12		
	30.0	-.88	-1.19	-.74			.01	.03	.08		
	35.0	-.89	-1.13	-.72			0	.01	.05		
	40.0	-.39	-.87	-.66			-.04	-.04	.01		
	45.0	-.28	-.69	-.61			-.05	-.06	-.02		
	50.0	-.21	-.39	-.57			-.06	-.09	-.05		
	60.0	-.17	-.12	-.52			-.04	-.08	-.06		
	70.0	-.11	-.11	-.47			-.02	-.07	-.07		
	80.0	-.07	-.11	-.44			.02	-.03	-.06		
	90.0	-.04	-.08	-.40			.01	-.01	-.11		
	95.0	-.04	-.06	-.38			.01	-.01	-.17		
0.924 b/2	0	.21	.04	-.11			---	---	---		
	1.5	-1.22	-1.40	-1.09			.35	.37	.40		
	4.0	-1.16	-1.35	-.84			---	---	---		
	7.0	-1.11	-1.33	-.83			.15	.18	.26		
	10.0	-1.06	-1.30	-.78			.09	.12	.19		
	15.0	-1.00	-1.26	-.75			.02	.05	.11		
	20.0	-.96	-1.20	-.70			-.06	-.05	.01		
	25.0	-.85	-1.02	-.67			-.11	-.10	-.03		
	30.0	-.31	-.76	-.61			-.14	-.16	-.09		
	35.0	-.17	-.66	-.57			-.13	-.18	-.11		
	40.0	-.27	-.55	-.51			-.13	-.19	-.14		
	45.0	-.30	-.50	-.49			-.12	-.19	-.14		
	50.0	-.31	-.43	-.45			-.10	-.19	-.14		
	60.0	---	---	---			-.08	-.14	-.14		
	70.0	---	---	---			-.05	-.10	-.14		
	80.0	-.11	-.33	-.39			-.01	-.04	-.11		
	90.0	-.07	-.31	-.36			.01	-.01	-.14		
	95.0	-.05	-.23	-.37			.01	-.02	-.19		

NACA

TABLE XI.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.90; R, 4,000,000

(a) α_u, -2°, -1°, 0°, 1°, 2°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.086b/2	0	.40	.46	.50	.53	.56	- - -	- - -	- - -	- - -	- - -
	1.5	.39	.35	.30	.26	.20	-.40	-.29	-.20	-.11	-.02
	4.0	.25	.21	.16	.12	.08	-.20	-.15	-.11	-.05	.01
	7.0	.18	.15	.10	.07	.03	-.18	-.13	-.09	-.04	0
	10.0	.13	.10	.06	.03	-.01	-.18	-.13	-.10	-.05	-.01
	15.0	.08	.05	.01	-.02	-.06	-.15	-.12	-.08	-.04	-.01
	20.0	.03	-.01	-.04	-.07	-.10	-.17	-.13	-.10	-.06	-.03
	25.0	-.01	-.04	-.07	-.10	-.13	-.19	-.15	-.12	-.08	-.05
	30.0	-.04	-.08	-.11	-.14	-.17	-.20	-.17	-.13	-.09	-.06
	35.0	-.09	-.11	-.15	-.18	-.20	-.22	-.18	-.15	-.11	-.08
	40.0	-.14	-.16	-.20	-.23	-.25	-.25	-.20	-.17	-.13	-.10
	45.0	-.18	-.20	-.24	-.27	-.30	-.26	-.21	-.18	-.14	-.11
	50.0	-.21	-.25	-.27	-.30	-.33	-.27	-.23	-.19	-.15	-.11
	60.0	-.26	-.30	-.34	-.36	-.40	-.20	-.16	-.13	-.10	-.07
	70.0	-.28	-.31	-.36	-.40	-.44	-.12	-.09	-.07	-.05	-.03
	80.0	-.23	-.26	-.29	-.33	-.39	-.03	-.02	0	.02	.04
	90.0	-.06	-.07	-.08	-.08	-.09	.01	.03	.03	.05	.06
	95.0	0	0	0	0	0	.04	.04	.05	.05	.06
0.195b/2	0	.25	.32	.39	.44	.47	- - -	- - -	- - -	- - -	- - -
	1.5	.35	.30	.25	.19	.11	-.69	-.49	-.33	-.22	-.11
	4.0	.22	.18	.13	.07	.01	-.34	-.25	-.24	-.15	-.07
	7.0	.16	.09	.05	-.01	-.05	-.29	-.24	-.18	-.13	-.08
	10.0	.09	.05	.01	-.04	-.09	-.30	-.24	-.18	-.14	-.09
	15.0	.02	-.02	-.05	-.10	-.14	-.25	-.21	-.16	-.12	-.08
	20.0	-.03	-.07	-.11	-.15	-.20	-.26	-.21	-.17	-.13	-.10
	25.0	-.07	-.11	-.14	-.18	-.22	-.27	-.22	-.18	-.13	-.11
	30.0	-.12	-.15	-.18	-.22	-.26	-.27	-.23	-.19	-.14	-.11
	35.0	-.16	-.19	-.22	-.26	-.30	-.29	-.24	-.19	-.15	-.12
	40.0	-.20	-.24	-.26	-.31	-.35	-.29	-.25	-.20	-.17	-.14
	45.0	-.25	-.28	-.31	-.34	-.39	-.29	-.24	-.20	-.16	-.14
	50.0	-.28	-.32	-.35	-.38	-.43	-.27	-.22	-.19	-.16	-.13
	60.0	-.31	-.35	-.40	-.44	-.49	-.17	-.14	-.11	-.09	-.08
	70.0	-.29	-.32	-.38	-.44	-.50	-.09	-.07	-.04	-.03	0
	80.0	-.19	-.20	-.20	-.21	-.23	-.01	0	.02	.03	.05
	90.0	-.04	-.04	-.04	-.04	-.04	.04	.05	.05	.06	.07
	95.0	.03	.03	.04	.03	.04	.06	.06	.07	.07	.08
0.382b/2	0	.10	.19	.29	.36	.42	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.29	.24	.16	.08	-.94	-.75	-.54	-.37	-.21
	4.0	.20	.15	.09	.03	-.05	-.74	-.51	-.32	-.27	-.15
	7.0	.11	.06	.01	-.06	-.13	-.60	-.40	-.29	-.22	-.15
	10.0	.06	.01	-.04	-.10	-.16	-.43	-.35	-.27	-.20	-.14
	15.0	-.02	-.06	-.11	-.17	-.22	-.38	-.33	-.24	-.19	-.14
	20.0	-.08	-.12	-.17	-.22	-.28	-.37	-.29	-.22	-.18	-.14
	25.0	-.12	-.17	-.20	-.25	-.31	-.35	-.28	-.22	-.18	-.14
	30.0	-.17	-.21	-.25	-.29	-.35	-.33	-.26	-.21	-.17	-.13
	35.0	-.21	-.25	-.29	-.34	-.39	-.29	-.25	-.20	-.17	-.14
	40.0	-.25	-.30	-.34	-.39	-.44	-.28	-.24	-.20	-.17	-.14
	45.0	-.30	-.34	-.39	-.44	-.49	-.25	-.22	-.18	-.16	-.13
	50.0	-.31	-.37	-.42	-.48	-.53	-.22	-.20	-.16	-.14	-.12
	60.0	-.30	-.32	-.39	-.50	-.57	-.13	-.11	-.09	-.07	-.03
	70.0	-.25	-.26	-.26	-.25	-.28	-.06	-.04	-.03	-.02	.01
	80.0	-.16	-.17	-.17	-.17	-.16	.01	.03	.05	.05	.07
	90.0	-.01	-.02	-.01	-.02	-.01	.06	.06	.08	.08	.09
	95.0	.05	.05	.05	.05	.06	.08	.08	.09	.09	.10
0.555b/2	0	.08	.16	.26	.35	.42	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.29	.22	.14	.04	-.95	-.89	-.68	-.44	-.23
	4.0	.23	.17	.11	.03	-.06	-.88	-.73	-.44	-.33	-.18
	7.0	.13	.07	.01	-.06	-.14	-.80	-.59	-.32	-.25	-.17
	10.0	.07	.02	-.04	-.12	-.19	-.60	-.40	-.32	-.23	-.16
	15.0	0	-.06	-.11	-.18	-.24	-.50	-.34	-.26	-.20	-.14
	20.0	-.07	-.12	-.18	-.25	-.31	-.38	-.30	-.23	-.18	-.13
	25.0	-.11	-.17	-.22	-.28	-.34	-.34	-.28	-.22	-.17	-.13
	30.0	-.16	-.21	-.26	-.32	-.38	-.30	-.25	-.20	-.16	-.12
	35.0	-.20	-.25	-.31	-.37	-.43	-.27	-.23	-.19	-.15	-.11
	40.0	-.24	-.29	-.35	-.42	-.48	-.25	-.21	-.18	-.15	-.11
	45.0	-.26	-.30	-.38	-.47	-.53	-.22	-.19	-.16	-.14	-.10
	50.0	-.28	-.32	-.34	-.47	-.57	-.18	-.16	-.15	-.11	-.08
	60.0	-.25	-.29	-.32	-.30	-.34	-.09	-.08	-.06	-.05	-.02
	70.0	-.21	-.23	-.24	-.26	-.23	-.02	-.01	0	.01	.03
	80.0	-.13	-.14	-.15	-.15	-.14	.06	.06	.07	.07	.09
	90.0	.01	.01	.01	.01	.02	.10	.10	.10	.10	.11
	95.0	.07	.07	.08	.08	.09	.12	.12	.12	.12	.13

TABLE XI.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.707b/2	0	-0.04	0.07	0.20	0.33	0.43	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.32	.16	.17	.07	-0.88	-0.89	-0.80	-0.54	-0.29
	4.0	.26	.20	.13	.04	-.06	-.88	-.83	-.68	-.44	-.23
	7.0	.16	.10	.03	-.06	-.15	-.86	-.75	-.44	-.25	-.20
	10.0	.10	.04	-.02	-.11	-.19	-.80	-.55	-.35	-.25	-.18
	15.0	.02	-.04	-.10	-.18	-.26	-.72	-.42	-.28	-.21	-.15
	20.0	-.04	-.11	-.17	-.25	-.32	-.58	-.32	-.25	-.19	-.13
	25.0	-.09	-.15	-.20	-.28	-.36	-.44	-.29	-.23	-.18	-.12
	30.0	-.14	-.19	-.24	-.32	-.41	-.33	-.26	-.21	-.17	-.11
	35.0	-.18	-.23	-.27	-.34	-.46	-.25	-.23	-.20	-.16	-.11
	40.0	-.21	-.26	-.31	-.33	-.49	-.21	-.21	-.18	-.15	-.11
	45.0	-.25	-.30	-.34	-.36	-.51	-.17	-.17	-.15	-.13	-.10
	50.0	-.28	-.32	-.35	-.41	-.36	-.14	-.14	-.12	-.10	-.08
	60.0	-.27	-.30	-.32	-.36	-.35	-.05	-.05	-.04	-.04	-.02
	70.0	-.20	-.21	-.20	-.20	-.21	.02	.02	.03	.04	.04
	80.0	-.11	-.11	-.11	-.11	-.11	.08	.08	.09	.09	.10
	90.0	.03	.03	.03	.04	.04	.12	.12	.12	.13	.13
	95.0	.09	.09	.09	.10	.10	- - -	- - -	- - -	- - -	- - -
0.831b/2	0	.07	.15	.27	.39	.46	- - -	- - -	- - -	- - -	- - -
	1.5	.39	.34	.29	.20	.08	-.79	-.86	-.84	-.61	-.33
	4.0	.27	.21	.15	.06	-.05	-.70	-.76	-.70	-.51	-.26
	7.0	.17	.11	.04	-.04	-.14	-.71	-.78	-.57	-.26	-.21
	10.0	.11	.06	0	-.09	-.19	-.64	-.60	-.35	-.27	-.19
	15.0	.03	-.02	-.08	-.17	-.26	-.62	-.51	-.31	-.25	-.16
	20.0	-.04	-.09	-.15	-.23	-.32	-.49	-.37	-.29	-.21	-.15
	25.0	-.09	-.14	-.20	-.25	-.36	-.48	-.32	-.25	-.20	-.14
	30.0	-.15	-.19	-.25	-.29	-.40	-.36	-.26	-.22	-.18	-.14
	35.0	-.20	-.24	-.29	-.34	-.44	-.32	-.21	-.19	-.17	-.13
	40.0	-.26	-.30	-.34	-.40	-.44	-.24	-.17	-.14	-.14	-.12
	45.0	-.29	-.34	-.38	-.45	-.41	-.18	-.12	-.11	-.11	-.10
	50.0	-.30	-.34	-.36	-.40	-.39	-.13	-.09	-.08	-.08	-.07
	60.0	-.25	-.25	-.25	-.25	-.26	-.04	-.02	-.01	-.01	-.01
	70.0	-.16	-.16	-.17	-.17	-.18	.02	.04	.05	.05	.05
	80.0	-.08	-.09	-.08	-.08	-.09	.08	.11	.11	.11	.11
	90.0	.04	.05	.06	.05	.05	.11	.13	.14	.14	.14
	95.0	.09	.09	.11	.11	.11	.12	.13	.15	.14	.15
0.924b/2	0	-.06	-.47	-.27	-.06	.19	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.35	.30	.21	.09	-1.01	-.96	-.89	-.72	-.41
	4.0	.26	.21	.15	.07	-.04	- - -	- - -	- - -	- - -	- - -
	7.0	.16	.11	.03	-.03	-.13	-1.04	-.78	-.72	-.38	-.25
	10.0	.07	.04	-.03	-.10	-.20	-.97	-.78	-.45	-.32	-.24
	15.0	-.02	-.07	-.13	-.20	-.29	-.94	-.70	-.37	-.30	-.22
	20.0	-.14	-.19	-.25	-.32	-.40	-.73	-.44	-.26	-.18	-.18
	25.0	-.20	-.25	-.31	-.35	-.41	-.18	-.20	-.17	-.16	-.14
	30.0	-.24	-.29	-.31	-.35	-.35	-.08	-.13	-.15	-.14	-.13
	35.0	-.25	-.29	-.30	-.35	-.34	-.09	-.10	-.12	-.12	-.11
	40.0	-.25	-.26	-.27	-.29	-.31	-.09	-.09	-.11	-.11	-.10
	45.0	-.26	-.25	-.26	-.28	-.31	-.06	-.07	-.09	-.09	-.08
	50.0	-.21	-.22	-.24	-.25	-.26	-.04	-.05	-.06	-.07	-.05
	60.0	- - -	- - -	- - -	- - -	- - -	-.01	.01	0	0	0
	70.0	- - -	- - -	- - -	- - -	- - -	.02	.05	.05	.06	.05
	80.0	-.04	-.04	-.04	-.05	-.05	.06	.11	.11	.11	.11
	90.0	.05	.06	.07	.07	.06	.09	.13	.14	.13	.13
	95.0	.09	.11	.13	.12	.12	.10	.15	.16	.15	.15

NACA

TABLE XI.- CONTINUED

(b) α_u, 3°, 4°, 5°, 6°, 7°

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.086b/2	0	0.57	0.57	0.55	0.54	0.50	- - -	- - -	- - -	- - -	- - -
	1.5	.15	.08	.01	-.05	-.13	0.06	0.13	0.19	0.26	0.31
	4.0	.03	-.01	-.07	-.12	-.17	.06	.11	.15	.20	.25
	7.0	-.01	-.05	-.10	-.14	-.18	.04	.08	.12	.16	.20
	10.0	-.05	-.09	-.13	-.16	-.20	.02	.06	.10	.14	.17
	15.0	-.09	-.12	-.16	-.20	-.23	.02	.06	.09	.12	.15
	20.0	-.14	-.17	-.21	-.23	-.26	0	.04	.07	.10	.13
	25.0	-.17	-.19	-.22	-.25	-.28	-.02	.01	.04	.08	.11
	30.0	-.20	-.22	-.26	-.28	-.31	-.03	0	.03	.06	.09
	35.0	-.23	-.26	-.30	-.32	-.34	-.04	-.01	.01	.05	.07
	40.0	-.29	-.31	-.34	-.37	-.40	-.07	-.04	-.01	.02	.05
	45.0	-.33	-.36	-.40	-.42	-.45	-.08	-.05	-.02	.01	.04
	50.0	-.36	-.40	-.43	-.45	-.49	-.09	-.06	-.03	0	.02
	60.0	-.43	-.46	-.50	-.52	-.54	-.04	-.02	0	.03	.05
	70.0	-.48	-.51	-.55	-.58	-.59	0	.01	.03	.05	.07
	80.0	-.45	-.51	-.55	-.59	-.64	.05	.06	.08	.09	.10
	90.0	-.11	-.14	-.16	-.19	-.23	.06	.06	.07	.07	.07
	95.0	-.02	-.04	-.07	-.09	-.13	.06	.06	.05	.05	.04
0.195b/2	0	.49	.49	.46	.42	.36	- - -	- - -	- - -	- - -	- - -
	1.5	.04	-.04	-.14	-.24	-.33	-.01	.09	.16	.24	.30
	4.0	-.05	-.11	-.19	-.25	-.32	0	.06	.12	.17	.23
	7.0	-.10	-.15	-.22	-.27	-.33	-.02	.03	.08	.13	.18
	10.0	-.14	-.18	-.24	-.28	-.33	-.04	.01	.05	.10	.15
	15.0	-.18	-.22	-.27	-.31	-.34	-.04	.01	.04	.08	.12
	20.0	-.23	-.27	-.31	-.35	-.38	-.05	-.01	.02	.06	.10
	25.0	-.25	-.29	-.33	-.36	-.39	-.07	-.03	0	.04	.07
	30.0	-.30	-.32	-.36	-.40	-.43	-.08	-.04	-.01	.02	.06
	35.0	-.34	-.36	-.41	-.43	-.46	-.09	-.05	-.02	.01	.05
	40.0	-.38	-.41	-.46	-.49	-.51	-.10	-.07	-.04	-.01	.03
	45.0	-.43	-.46	-.50	-.53	-.56	-.10	-.07	-.04	-.01	.02
	50.0	-.45	-.49	-.53	-.55	-.58	-.10	-.07	-.05	-.02	.01
	60.0	-.52	-.55	-.59	-.61	-.64	-.05	-.03	-.01	.02	.04
	70.0	-.55	-.58	-.62	-.66	-.69	.01	.02	.05	.05	.06
	80.0	-.46	-.53	-.57	-.62	-.65	.06	.07	.07	.08	.09
	90.0	-.02	-.02	-.03	-.04	-.06	.08	.08	.08	.08	.08
	95.0	.05	.04	.04	.03	0	.09	.09	.08	.07	.06
0.382b/2	0	.45	.45	.41	.35	.27	- - -	- - -	- - -	- - -	- - -
	1.5	-.02	-.11	-.25	-.37	-.53	-.07	.05	.15	.23	.30
	4.0	-.13	-.21	-.31	-.41	-.51	-.06	.03	.09	.16	.22
	7.0	-.20	-.26	-.35	-.43	-.52	-.08	-.01	.05	.11	.16
	10.0	-.22	-.27	-.35	-.42	-.49	-.09	-.02	.03	.08	.13
	15.0	-.28	-.33	-.40	-.45	-.50	-.09	-.03	.01	.06	.10
	20.0	-.33	-.38	-.44	-.49	-.54	-.09	-.04	0	.04	.08
	25.0	-.35	-.40	-.46	-.51	-.55	-.10	-.05	-.02	.02	.06
	30.0	-.39	-.43	-.50	-.54	-.57	-.10	-.05	-.02	.01	.05
	35.0	-.44	-.48	-.53	-.57	-.61	-.10	-.06	-.04	0	.04
	40.0	-.48	-.52	-.57	-.61	-.64	-.10	-.07	-.04	0	.02
	45.0	-.54	-.57	-.62	-.67	-.70	-.10	-.07	-.05	-.01	.01
	50.0	-.58	-.61	-.66	-.70	-.73	-.10	-.06	-.04	-.01	.01
	60.0	-.62	-.65	-.70	-.74	-.76	-.05	-.02	0	.02	.04
	70.0	-.56	-.61	-.67	-.75	-.77	.03	.05	.05	.06	.06
	80.0	-.13	-.11	-.16	-.27	-.38	.08	.10	.09	.10	.11
	90.0	.01	.03	.02	0	-.11	.11	.11	.11	.12	.11
	95.0	.07	.09	.08	.06	0	.12	.13	.12	.13	.12
0.555b/2	0	.45	.43	.37	.28	.18	- - -	- - -	- - -	- - -	- - -
	1.5	-.08	-.21	-.38	-.53	-.70	-.05	.07	.18	.27	.34
	4.0	-.16	-.26	-.39	-.50	-.63	-.06	.03	.10	.18	.24
	7.0	-.22	-.31	-.42	-.52	-.63	-.08	-.01	.05	.11	.17
	10.0	-.26	-.33	-.42	-.51	-.60	-.09	-.02	.03	.09	.14
	15.0	-.31	-.37	-.45	-.52	-.59	-.08	-.03	.02	.07	.11
	20.0	-.37	-.44	-.52	-.58	-.64	-.08	-.04	0	.05	.09
	25.0	-.40	-.46	-.53	-.58	-.65	-.08	-.04	-.01	.03	.07
	30.0	-.44	-.49	-.55	-.60	-.65	-.08	-.04	-.01	.03	.06
	35.0	-.49	-.54	-.60	-.64	-.69	-.08	-.05	-.02	.01	.04
	40.0	-.54	-.58	-.64	-.68	-.72	-.08	-.05	-.03	.01	.03
	45.0	-.60	-.64	-.70	-.74	-.78	-.08	-.05	-.03	0	.02
	50.0	-.64	-.67	-.75	-.77	-.83	-.06	-.04	-.02	0	.02
	60.0	-.63	-.67	-.70	-.73	-.85	-.02	-.01	.01	.04	.05
	70.0	-.16	-.32	-.56	-.58	-.42	.05	.06	.06	.07	.07
	80.0	-.12	-.09	-.06	-.17	-.26	.11	.11	.11	.11	.11
	90.0	.02	.04	.05	.03	-.06	.13	.13	.12	.13	.12
	95.0	.10	.10	.11	.09	.05	.16	.16	.15	.15	.13

TABLE XI.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface Angle of attack 3°	4°	5°	6°	7°	Lower surface Angle of attack 3°	4°	5°	6°	7°
0.707b/2	0	0.46	0.45	0.36	0.25	0.13	- - -	- - -	- - -	- - -	- - -
	1.5	-.07	-.21	-.39	-.58	-.85	-0.09	0.06	0.17	0.26	0.33
	4.0	-.18	-.29	-.44	-.58	-.74	-.10	.01	.09	.17	.23
	7.0	-.25	-.35	-.48	-.60	-.71	-.10	-.02	.05	.11	.16
	10.0	-.28	-.37	-.48	-.58	-.70	-.10	-.03	.03	.09	.13
	15.0	-.34	-.42	-.51	-.58	-.66	-.09	-.03	.01	.06	.10
	20.0	-.40	-.48	-.57	-.64	-.70	-.08	-.04	0	.04	.07
	25.0	-.43	-.50	-.58	-.65	-.73	-.08	-.04	-.02	.02	.05
	30.0	-.48	-.54	-.61	-.67	-.73	-.08	-.05	-.03	.01	.03
	35.0	-.53	-.59	-.66	-.71	-.75	-.08	-.05	-.03	0	.02
	40.0	-.58	-.64	-.71	-.75	-.81	-.09	-.06	-.04	-.01	.01
	45.0	-.64	-.69	-.73	-.73	-.85	-.08	-.06	-.04	-.01	0
	50.0	-.65	-.72	-.68	-.71	-.90	-.06	-.06	-.04	-.01	-.01
	60.0	-.25	-.62	-.63	-.57	-.38	-.02	-.02	-.01	.01	.01
	70.0	-.18	-.10	-.19	-.25	-.33	.06	.06	.05	.04	.03
	80.0	-.11	-.07	-.06	-.09	-.27	.11	.11	.09	.09	.07
	90.0	.04	.05	.04	.02	-.18	.15	.14	.11	.10	.07
	95.0	.11	.11	.09	.05	-.11	- - -	- - -	- - -	- - -	- - -
0.831b/2	0	.48	.46	.39	.28	.15	- - -	- - -	- - -	- - -	- - -
	1.5	-.06	-.20	-.40	-.61	-.89	-.11	.05	.18	.27	.32
	4.0	-.18	-.30	-.45	-.60	-.78	-.11	-.01	.08	.15	.20
	7.0	-.25	-.35	-.49	-.61	-.75	-.10	-.03	.04	.11	.14
	10.0	-.28	-.38	-.50	-.59	-.73	-.10	-.04	.02	.07	.10
	15.0	-.34	-.42	-.52	-.61	-.70	-.10	-.04	0	.05	.07
	20.0	-.40	-.48	-.57	-.65	-.72	-.10	-.05	-.02	.02	.04
	25.0	-.44	-.51	-.60	-.68	-.76	-.10	-.06	-.04	0	.01
	30.0	-.50	-.55	-.63	-.70	-.78	-.11	-.08	-.05	-.03	-.01
	35.0	-.55	-.61	-.68	-.74	-.80	-.11	-.08	-.07	-.04	-.04
	40.0	-.60	-.66	-.74	-.79	-.84	-.10	-.09	-.08	-.05	-.06
	45.0	-.64	-.70	-.74	-.75	-.68	-.09	-.08	-.08	-.06	-.07
	50.0	-.41	-.64	-.69	-.71	-.33	-.07	-.06	-.05	-.05	-.08
	60.0	-.20	-.13	-.20	-.26	-.28	.02	-.03	-.04	-.02	-.05
	70.0	-.18	-.15	-.12	-.09	-.19	.05	.06	.04	.02	-.02
	80.0	-.09	-.09	-.07	-.05	-.13	.11	.11	.09	.07	.03
	90.0	.05	.05	.04	.04	-.08	.14	.13	.11	.09	.01
	95.0	.11	.10	.09	.08	-.08	.15	.15	.12	.10	-.01
0.924b/2	0	.35	.41	.41	.38	.31	- - -	- - -	- - -	- - -	- - -
	1.5	-.05	-.20	-.41	-.63	-.92	-.16	.02	.15	.24	.29
	4.0	-.18	-.30	-.45	-.60	-.82	- - -	- - -	- - -	- - -	- - -
	7.0	-.25	-.36	-.50	-.62	-.77	-.16	-.06	0	.06	.10
	10.0	-.30	-.39	-.51	-.63	-.76	-.17	-.09	-.04	-.01	.04
	15.0	-.38	-.46	-.57	-.65	-.74	-.17	-.12	-.08	-.04	-.02
	20.0	-.49	-.56	-.66	-.73	-.80	-.17	-.14	-.13	-.11	-.10
	25.0	-.52	-.58	-.66	-.74	-.83	-.15	-.13	-.13	-.11	-.13
	30.0	-.49	-.56	-.62	-.68	-.77	-.12	-.12	-.13	-.13	-.15
	35.0	-.46	-.56	-.64	-.67	-.77	-.11	-.11	-.12	-.12	-.15
	40.0	-.28	-.47	-.56	-.62	-.49	-.10	-.10	-.11	-.12	-.15
	45.0	-.20	-.26	-.34	-.41	-.26	-.08	-.08	-.10	-.11	-.14
	50.0	-.28	-.23	-.24	-.22	-.25	-.05	-.06	-.08	-.10	-.13
	60.0	- - -	- - -	- - -	- - -	- - -	-.01	0	-.01	-.05	-.10
	70.0	- - -	- - -	- - -	- - -	- - -	.04	.04	.01	-.01	-.06
	80.0	-.07	-.08	-.10	-.12	-.10	.09	.09	.06	.05	-.02
	90.0	.03	.02	-.02	-.04	-.08	.12	.10	.08	.06	-.01
	95.0	.10	.09	.05	.03	-.07	.13	.12	.09	.08	0

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[redacted]

TABLE XI.- CONTINUED
(c) α_u, 8°, 10°

Spanwise station	Percent chord	Upper surface Angle of attack 8°	Upper surface Angle of attack 10°				Lower surface Angle of attack 8°	Lower surface Angle of attack 10°			
0.086b/2	0	0.46	0.34				- - -	- - -			
	1.5	-.21	-.39				.36	.46			
	4.0	-.23	-.35				.29	.37			
	7.0	-.23	-.32				.24	.31			
	10.0	-.24	-.32				.21	.28			
	15.0	-.26	-.32				.19	.25			
	20.0	-.30	-.36				.16	.23			
	25.0	-.31	-.37				.13	.20			
	30.0	-.35	-.40				.12	.18			
	35.0	-.37	-.43				.10	.15			
	40.0	-.43	-.49				.07	.13			
	45.0	-.48	-.54				.06	.11			
	50.0	-.52	-.59				.04	.09			
	60.0	-.56	-.63				.06	.10			
	70.0	-.62	-.68				.08	.11			
	80.0	-.65	-.73				.10	.13			
	90.0	-.26	-.35				.07	.08			
	95.0	-.16	-.25				.03	.03			
0.195b/2	0	.27	.07				- - -	- - -			
	1.5	-.45	-.74				.32	.45			
	4.0	-.41	-.64				.27	.36			
	7.0	-.39	-.50				.21	.29			
	10.0	-.38	-.48				.18	.26			
	15.0	-.39	-.48				.15	.22			
	20.0	-.43	-.51				.12	.19			
	25.0	-.43	-.51				.10	.16			
	30.0	-.47	-.53				.08	.15			
	35.0	-.50	-.56				.07	.12			
	40.0	-.54	-.61				.05	.10			
	45.0	-.59	-.67				.04	.09			
	50.0	-.61	-.69				.03	.07			
	60.0	-.66	-.73				.05	.08			
	70.0	-.71	-.78				.07	.09			
	80.0	-.53	-.57				.09	.10			
	90.0	-.20	-.32				.06	.06			
	95.0	-.13	-.26				.04	.01			
0.382b/2	0	.16	-.04				- - -	- - -			
	1.5	-.72	-1.07				.36	.44			
	4.0	-.64	-1.08				.27	.36			
	7.0	-.62	-.94				.20	.29			
	10.0	-.54	-.63				.17	.25			
	15.0	-.55	-.68				.13	.21			
	20.0	-.60	-.71				.11	.18			
	25.0	-.60	-.69				.09	.15			
	30.0	-.61	-.70				.07	.13			
	35.0	-.65	-.74				.05	.11			
	40.0	-.68	-.77				.03	.08			
	45.0	-.74	-.82				.02	.07			
	50.0	-.77	-.86				.01	.05			
	60.0	-.81	-.89				.04	.06			
	70.0	-.50	-.50				.05	.06			
	80.0	-.32	-.39				.08	.07			
	90.0	-.25	-.35				.06	.04			
	95.0	-.19	-.33				.04	-.01			
0.555b/2	0	.06	-.15				- - -	- - -			
	1.5	-.94	-1.24				.39	.45			
	4.0	-.82	-1.18				.28	.36			
	7.0	-.75	-1.11				.22	.29			
	10.0	-.69	-1.14				.18	.25			
	15.0	-.63	-.90				.14	.21			
	20.0	-.71	-.75				.11	.16			
	25.0	-.71	-.80				.09	.15			
	30.0	-.70	-.80				.08	.12			
	35.0	-.74	-.83				.05	.10			
	40.0	-.78	-.86				.04	.07			
	45.0	-.82	-.91				.03	.06			
	50.0	-.87	-.95				.02	.04			
	60.0	-.45	-.44				.04	.05			
	70.0	-.37	-.38				.05	.05			
	80.0	-.33	-.38				.07	.05			
	90.0	-.28	-.36				.05	.01			
	95.0	-.23	-.33				.03	-.03			

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TABLE XI.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	Upper surface, Angle of attack 10°				Lower surface, Angle of attack 8°	Lower surface, Angle of attack 10°			
0.707 b/2	0	0.02	-0.20				- - -	- - -			
	1.5	-1.06	-1.28				0.38	0.43			
	4.0	-.99	-1.25				.27	.34			
	7.0	-.91	-1.22				.20	.27			
	10.0	-.88	-1.20				.16	.23			
	15.0	-.71	-1.15				.12	.18			
	20.0	-.73	-1.13				.10	.14			
	25.0	-.80	-1.11				.07	.11			
	30.0	-.81	-1.10				.05	.09			
	35.0	-.82	-.89				.03	.06			
	40.0	-.85	-.87				.01	.03			
	45.0	-.53	-.45				0	.01			
	50.0	-.31	-.29				-.02	-.01			
	60.0	-.27	-.22				-.02	-.02			
	70.0	-.23	-.18				-.01	-.04			
	80.0	-.22	-.18				.01	-.03			
	90.0	-.21	-.18				-.01	-.05			
	95.0	-.20	-.18				- - -	- - -			
0.831 b/2	0	.05	-.19				- - -	- - -			
	1.5	-1.07	-1.27				.36	.40			
	4.0	-1.02	-1.27				.25	.30			
	7.0	-.97	-1.23				.18	.24			
	10.0	-.91	-1.21				.14	.19			
	15.0	-.85	-1.18				.10	.13			
	20.0	-.76	-1.16				.06	.09			
	25.0	-.80	-1.16				.03	.05			
	30.0	-.84	-1.11				0	.02			
	35.0	-.86	-1.10				-.03	-.01			
	40.0	-.32	-.93				-.06	-.06			
	45.0	-.28	-.81				-.08	-.09			
	50.0	-.23	-.56				-.10	-.12			
	60.0	-.20	-.16				-.08	-.12			
	70.0	-.14	-.15				-.05	-.11			
	80.0	-.12	-.15				-.02	-.07			
	90.0	-.11	-.12				-.03	-.05			
	95.0	-.11	-.10				-.05	-.05			
0.924 b/2	0	.25	.09				- - -	- - -			
	1.5	-1.07	-1.26				.33	.35			
	4.0	-1.02	-1.25				- - -	- - -			
	7.0	-.98	-1.23				.13	.18			
	10.0	-.95	-1.21				.06	.10			
	15.0	-.90	-1.19				0	.03			
	20.0	-.90	-1.15				-.10	-.07			
	25.0	-.86	-1.14				-.14	-.11			
	30.0	-.63	-.90				-.18	-.19			
	35.0	-.22	-.73				-.18	-.20			
	40.0	-.19	-.59				-.18	-.22			
	45.0	-.20	-.51				-.16	-.22			
	50.0	-.22	-.41				-.14	-.23			
	60.0	- - -	- - -				-.10	-.19			
	70.0	- - -	- - -				-.08	-.12			
	80.0	-.13	-.38				-.05	-.06			
	90.0	-.14	-.34				-.03	-.02			
	95.0	-.12	-.25				-.03	-.04			

TABLE XII.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.92; R, 4,000,000

(a) α_u, -2°, -1°, 0°, 1°, 2°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.086 b/2	0	0.42	0.46	0.50	0.54	0.56	- - -	- - -	- - -	- - -	- - -
	1.5	.40	.36	.31	.37	.20	-0.38	-0.28	-0.18	-0.10	-0.01
	4.0	.26	.22	.18	.14	.09	-.18	-.14	-.10	-.04	.01
	7.0	.19	.15	.11	.08	.03	-.17	-.12	-.08	-.04	0
	10.0	.14	.11	.07	.04	0	-.17	-.13	-.09	-.04	-.01
	15.0	.08	.05	.02	-.01	-.04	-.14	-.11	-.07	-.04	-.01
	20.0	.03	0	-.03	-.05	-.10	-.16	-.13	-.09	-.05	-.03
	25.0	0	-.03	-.05	-.08	-.12	-.19	-.15	-.11	-.08	-.05
	30.0	-.04	-.07	-.10	-.12	-.16	-.20	-.17	-.13	-.09	-.06
	35.0	-.08	-.11	-.13	-.16	-.20	-.22	-.19	-.15	-.11	-.08
	40.0	-.13	-.16	-.19	-.21	-.25	-.25	-.21	-.18	-.13	-.11
	45.0	-.17	-.20	-.23	-.26	-.30	-.27	-.23	-.19	-.15	-.12
	50.0	-.21	-.24	-.26	-.29	-.33	-.30	-.26	-.21	-.16	-.13
	60.0	-.28	-.31	-.33	-.35	-.40	-.25	-.20	-.15	-.11	-.09
	70.0	-.31	-.35	-.38	-.41	-.44	-.15	-.11	-.08	-.05	-.04
	80.0	-.29	-.33	-.38	-.43	-.47	-.02	-.03	0	.01	.03
	90.0	-.08	-.08	-.09	-.11	-.14	.01	.02	.03	.04	.04
	95.0	0	0	-.01	-.02	-.03	.03	.04	.04	.04	.04
0.195 b/2	0	.28	.35	.40	.44	.49	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.31	.26	.21	.13	-.65	-.45	-.33	-.21	-.10
	4.0	.23	.19	.14	.10	.03	-.33	-.22	-.24	-.14	-.06
	7.0	.15	.10	.05	.02	-.04	-.28	-.23	-.17	-.12	-.06
	10.0	.10	.06	.02	-.02	-.07	-.28	-.22	-.18	-.13	-.08
	15.0	.04	0	-.04	-.08	-.12	-.24	-.20	-.16	-.11	-.07
	20.0	-.02	-.05	-.10	-.13	-.18	-.25	-.20	-.17	-.11	-.09
	25.0	-.06	-.09	-.13	-.16	-.21	-.26	-.21	-.19	-.13	-.10
	30.0	-.11	-.13	-.17	-.20	-.24	-.27	-.23	-.19	-.14	-.11
	35.0	-.15	-.17	-.21	-.24	-.29	-.29	-.24	-.21	-.16	-.12
	40.0	-.20	-.22	-.27	-.28	-.34	-.32	-.26	-.23	-.18	-.14
	45.0	-.24	-.27	-.31	-.33	-.38	-.32	-.28	-.22	-.18	-.14
	50.0	-.28	-.31	-.34	-.36	-.40	-.33	-.26	-.21	-.17	-.13
	60.0	-.33	-.36	-.40	-.43	-.47	-.21	-.15	-.13	-.10	-.08
	70.0	-.35	-.39	-.44	-.48	-.50	-.09	-.08	-.05	-.04	0
	80.0	-.20	-.21	-.25	-.32	-.45	-.01	0	.01	.03	.05
	90.0	-.03	-.03	-.04	-.04	-.04	.04	.05	.05	.06	.07
	95.0	.03	.04	.03	.03	.05	.06	.06	.06	.07	.07
0.382 b/2	0.	.13	.21	.29	.37	.43	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.30	.25	.18	.09	-.92	-.73	-.54	-.37	-.21
	4.0	.21	.16	.11	.04	-.03	-.74	-.51	-.36	-.28	-.15
	7.0	.11	.07	.02	-.04	-.11	-.56	-.40	-.31	-.22	-.15
	10.0	.06	.02	-.03	-.07	-.14	-.43	-.34	-.29	-.20	-.15
	15.0	-.01	-.05	-.10	-.14	-.21	-.39	-.32	-.28	-.19	-.14
	20.0	-.07	-.11	-.16	-.20	-.26	-.36	-.32	-.25	-.19	-.14
	25.0	-.12	-.16	-.20	-.23	-.31	-.37	-.31	-.25	-.19	-.14
	30.0	-.16	-.20	-.25	-.27	-.34	-.38	-.30	-.24	-.18	-.14
	35.0	-.21	-.25	-.29	-.32	-.37	-.37	-.28	-.22	-.17	-.14
	40.0	-.26	-.30	-.34	-.37	-.42	-.35	-.25	-.23	-.18	-.14
	45.0	-.31	-.35	-.40	-.43	-.47	-.29	-.23	-.20	-.16	-.14
	50.0	-.35	-.39	-.43	-.47	-.51	-.22	-.20	-.18	-.15	-.12
	60.0	-.37	-.43	-.48	-.51	-.56	-.12	-.11	-.10	-.07	-.04
	70.0	-.24	-.24	-.30	-.45	-.59	-.05	-.04	-.04	-.01	0
	80.0	-.17	-.16	-.14	-.14	-.16	.02	.03	.04	.05	.06
	90.0	-.01	-.01	0	.01	0	.06	.06	.06	.08	.09
	95.0	.05	.06	.06	.06	.06	.09	.09	.09	.09	.10
0.555 b/2	0	.10	.16	.24	.34	.41	- - -	- - -	- - -	- - -	- - -
	1.5	.32	.28	.23	.15	.05	-1.05	-.94	-.74	-.49	-.25
	4.0	.21	.16	.11	.05	-.05	-1.01	-.82	-.55	-.38	-.20
	7.0	.12	.06	.01	-.05	-.13	-.81	-.64	-.36	-.25	-.18
	10.0	.06	.01	-.04	-.10	-.18	-.59	-.45	-.34	-.25	-.18
	15.0	-.01	-.06	-.11	-.17	-.22	-.53	-.39	-.29	-.22	-.15
	20.0	-.09	-.13	-.18	-.24	-.30	-.46	-.32	-.26	-.19	-.14
	25.0	-.13	-.17	-.22	-.27	-.33	-.42	-.30	-.25	-.19	-.14
	30.0	-.18	-.22	-.27	-.31	-.37	-.33	-.27	-.22	-.17	-.12
	35.0	-.22	-.27	-.32	-.37	-.42	-.27	-.25	-.21	-.17	-.12
	40.0	-.28	-.33	-.38	-.42	-.46	-.25	-.23	-.20	-.16	-.12
	45.0	-.31	-.38	-.43	-.49	-.52	-.22	-.21	-.18	-.15	-.11
	50.0	-.30	-.40	-.48	-.52	-.57	-.20	-.18	-.16	-.13	-.09
	60.0	-.28	-.26	-.35	-.55	-.61	-.11	-.09	-.08	-.06	-.03
	70.0	-.24	-.24	-.21	-.19	-.21	-.04	-.01	0	0	.02
	80.0	-.14	-.15	-.15	-.12	-.09	.04	.06	.06	.06	.08
	90.0	0	0	0	.02	.03	.08	.10	.10	.10	.11
	95.0	.07	.07	.08	.08	.09	.11	.11	.12	.12	.13

TABLE XII.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface Angle of attack -2°	-1°	0°	1°	2°	Lower surface Angle of attack -2°	-1°	0°	1°	2°
0.707 b/2	0	-0.04	0.08	0.19	0.32	0.42	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.31	.26	.18	.08	-1.02	-0.91	-0.82	-0.59	-0.33
	4.0	.24	.19	.12	.05	-.05	-.99	-.86	-.74	-.51	-.26
	7.0	.14	.08	.02	-.05	-.14	-.99	-.79	-.56	-.31	-.21
	10.0	.09	.02	-.03	-.10	-.19	-.91	-.60	-.38	-.29	-.20
	15.0	0	-.05	-.12	-.18	-.25	-.80	-.50	-.30	-.23	-.16
	20.0	-.05	-.12	-.18	-.25	-.31	-.68	-.36	-.27	-.21	-.14
	25.0	-.11	-.18	-.23	-.29	-.35	-.50	-.31	-.26	-.20	-.14
	30.0	-.15	-.21	-.28	-.34	-.41	-.35	-.27	-.23	-.19	-.13
	35.0	-.19	-.25	-.34	-.40	-.46	-.23	-.25	-.21	-.18	-.13
	40.0	-.24	-.26	-.36	-.45	-.50	-.19	-.22	-.20	-.16	-.13
	45.0	-.28	-.30	-.37	-.51	-.56	-.16	-.18	-.17	-.15	-.11
	50.0	-.30	-.35	-.31	-.52	-.60	-.13	-.15	-.13	-.12	-.10
	60.0	-.30	-.33	-.34	-.29	-.38	-.05	-.05	-.04	-.04	-.04
	70.0	-.25	-.25	-.26	-.21	-.15	.03	.02	.03	.04	.04
	80.0	-.11	-.10	-.10	-.09	-.07	.09	.09	.09	.09	.10
	90.0	.03	.04	.04	.04	.05	.13	.12	.13	.13	.14
	95.0	.09	.09	.10	.10	.11	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	.09	.17	.27	.37	.45	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.33	.28	.21	.10	-.78	-.90	-.83	-.63	-.35
	4.0	.26	.20	.13	.06	-.04	-.69	-.81	-.72	-.56	-.29
	7.0	.17	.10	.03	-.04	-.13	-.70	-.80	-.65	-.31	-.22
	10.0	.11	.05	-.02	-.09	-.18	-.63	-.61	-.42	-.27	-.20
	15.0	.02	-.04	-.11	-.17	-.25	-.61	-.57	-.34	-.25	-.17
	20.0	-.04	-.10	-.17	-.24	-.31	-.51	-.41	-.29	-.22	-.15
	25.0	-.09	-.14	-.21	-.28	-.36	-.50	-.35	-.27	-.20	-.15
	30.0	-.15	-.20	-.26	-.34	-.41	-.39	-.29	-.25	-.19	-.15
	35.0	-.20	-.25	-.29	-.39	-.47	-.35	-.24	-.22	-.18	-.15
	40.0	-.27	-.31	-.33	-.45	-.52	-.25	-.18	-.16	-.15	-.14
	45.0	-.32	-.37	-.38	-.47	-.60	-.21	-.12	-.11	-.10	-.10
	50.0	-.38	-.43	-.45	-.43	-.63	-.14	-.09	-.08	-.07	-.07
	60.0	-.28	-.27	-.27	-.19	-.10	-.05	-.01	-.01	0	0
	70.0	-.14	-.14	-.14	-.14	-.13	.01	.05	.05	.06	.05
	80.0	-.07	-.07	-.07	-.06	-.07	.07	.10	.11	.12	.11
	90.0	.05	.05	.06	.07	.07	.11	.13	.14	.15	.15
	95.0	.11	.11	.11	.12	.12	.13	.14	.15	.16	.16
0.924 b/2	0	-.57	-.45	-.26	-.05	.18	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.34	.29	.22	.10	-.99	-.99	-.85	-.72	-.42
	4.0	.26	.21	.14	.07	-.04	- - -	- - -	- - -	- - -	- - -
	7.0	.16	.11	.04	-.03	-.12	-.99	-.92	-.71	-.44	-.27
	10.0	.08	.03	-.04	-.10	-.19	-.85	-.80	-.52	-.30	-.24
	15.0	-.02	-.07	-.14	-.20	-.28	-.89	-.76	-.48	-.29	-.23
	20.0	-.14	-.20	-.25	-.32	-.40	-.65	-.53	-.35	-.32	-.27
	25.0	-.21	-.26	-.31	-.39	-.46	-.44	-.24	-.20	-.15	-.13
	30.0	-.30	-.35	-.38	-.44	-.50	-.22	-.13	-.14	-.12	-.13
	35.0	-.34	-.38	-.38	-.42	-.51	-.11	-.09	-.11	-.11	-.12
	40.0	-.34	-.35	-.34	-.27	-.42	-.10	-.08	-.11	-.10	-.10
	45.0	-.28	-.28	-.30	-.20	-.22	-.06	-.06	-.09	-.07	-.08
	50.0	-.18	-.20	-.19	-.21	-.16	-.04	-.04	-.06	-.04	-.05
	60.0	- - -	- - -	- - -	- - -	- - -	-.01	.01	0	.01	.01
	70.0	- - -	- - -	- - -	- - -	- - -	.02	.06	.06	.07	.06
	80.0	.04	-.04	-.03	-.03	-.04	.06	.11	.11	.12	.12
	90.0	.05	.07	.07	.08	.07	.09	.13	.14	.15	.14
	95.0	.09	.12	.13	.14	.12	.10	.15	.15	.17	.16

TABLE XII.- CONTINUED

(b) α_u, 3°, 4°, 5°, 6°, 7°

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.086 b/2	0	0.57	0.58	0.56	0.55	0.52	- - -	- - -	- - -	- - -	- - -
	1.5	.15	.10	.04	-.03	-.10	0.06	0.13	0.19	0.25	0.31
	4.0	.05	0	-.05	-.10	-.15	.07	.11	.16	.20	.25
	7.0	0	-.04	-.08	-.12	-.16	.05	.09	.12	.16	.20
	10.0	-.03	-.07	-.11	-.14	-.19	.03	.07	.10	.13	.17
	15.0	-.08	-.11	-.14	-.17	-.21	.03	.06	.09	.12	.15
	20.0	-.12	-.15	-.19	-.21	-.25	.01	.04	.07	.10	.13
	25.0	-.15	-.18	-.21	-.24	-.28	-.01	.02	.04	.07	.10
	30.0	-.18	-.21	-.24	-.26	-.30	-.03	0	.03	.06	.09
	35.0	-.22	-.25	-.28	-.30	-.33	-.04	-.02	.01	.04	.07
	40.0	-.27	-.30	-.33	-.35	-.38	-.06	-.04	-.01	.02	.05
	45.0	-.32	-.35	-.38	-.40	-.43	-.08	-.05	-.03	0	.03
	50.0	-.35	-.38	-.42	-.44	-.47	-.09	-.06	-.04	.01	.01
	60.0	-.42	-.44	-.47	-.50	-.52	-.05	-.04	-.01	.01	.04
	70.0	-.47	-.50	-.52	-.55	-.57	-.01	0	.02	.04	.06
	80.0	-.51	-.54	-.58	-.60	-.64	.04	.05	.06	.07	.08
	90.0	-.18	-.22	-.26	-.28	-.32	.05	.05	.05	.05	.06
	95.0	-.05	-.09	-.12	-.15	-.19	.04	.03	.02	.02	.01
0.195 b/2	0	.51	.50	.48	.45	.38	- - -	- - -	- - -	- - -	- - -
	1.5	.06	-.10	-.10	-.20	-.30	0	.09	.17	.24	.30
	4.0	-.02	-.08	-.15	-.22	-.30	0	.07	.12	.18	.23
	7.0	-.08	-.13	-.19	-.25	-.30	-.01	.04	.09	.13	.18
	10.0	-.11	-.15	-.20	-.25	-.30	-.02	.02	.06	.10	.15
	15.0	-.15	-.20	-.24	-.28	-.32	-.02	.01	.05	.08	.12
	20.0	-.21	-.25	-.28	-.32	-.36	-.04	-.01	.03	.06	.10
	25.0	-.24	-.26	-.30	-.33	-.37	-.06	-.03	.01	.04	.08
	30.0	-.27	-.30	-.34	-.37	-.40	-.07	-.04	-.01	.03	.06
	35.0	-.31	-.34	-.37	-.40	-.44	-.08	-.05	-.02	.01	.05
	40.0	-.36	-.39	-.43	-.46	-.49	-.10	-.07	-.04	-.01	.02
	45.0	-.40	-.44	-.48	-.50	-.55	-.10	-.08	-.05	-.02	.01
	50.0	-.43	-.46	-.50	-.52	-.56	-.10	-.08	-.05	-.02	0
	60.0	-.50	-.52	-.55	-.58	-.61	-.06	-.04	-.01	.01	.03
	70.0	-.54	-.57	-.60	-.63	-.66	.01	.01	.02	.05	.05
	80.0	-.51	-.55	-.59	-.62	-.66	.05	.06	.06	.07	.07
	90.0	-.03	-.09	-.14	-.17	-.22	.07	.06	.06	.06	.06
	95.0	.05	.03	0	-.01	-.04	.08	.06	.06	.05	.03
0.382 b/2	0	.46	.45	.43	.39	.31	- - -	- - -	- - -	- - -	- - -
	1.5	0	-.08	-.19	-.31	-.46	-.07	.04	.13	.22	.29
	4.0	-.10	-.19	-.27	-.37	-.47	-.05	.02	.08	.15	.21
	7.0	-.17	-.24	-.31	-.39	-.48	-.07	-.01	.05	.10	.15
	10.0	-.19	-.25	-.31	-.38	-.45	-.08	-.02	.03	.08	.12
	15.0	-.26	-.31	-.36	-.42	-.48	-.08	-.04	.01	.05	.10
	20.0	-.31	-.36	-.41	-.45	-.51	-.08	-.04	0	.03	.08
	25.0	-.34	-.38	-.43	-.48	-.52	-.09	-.05	-.02	.02	.06
	30.0	-.37	-.41	-.46	-.51	-.54	-.09	-.06	-.03	.01	.05
	35.0	-.41	-.45	-.50	-.54	-.58	-.10	-.07	-.04	-.01	.03
	40.0	-.46	-.50	-.53	-.57	-.61	-.10	-.08	-.05	-.02	.01
	45.0	-.51	-.55	-.59	-.64	-.67	-.10	-.08	-.05	-.02	0
	50.0	-.55	-.59	-.62	-.67	-.70	-.10	-.07	-.05	-.03	-.01
	60.0	-.61	-.64	-.68	-.71	-.75	-.05	-.05	-.02	0	.02
	70.0	-.64	-.65	-.66	-.69	-.72	.02	.04	.04	.04	.04
	80.0	-.24	-.51	-.44	-.48	-.65	.09	.09	.09	.09	.08
	90.0	.03	-.01	-.10	-.19	-.35	.11	.10	.10	.09	.08
	95.0	.10	.06	-.01	-.10	-.17	.12	.11	.10	.09	.08
0.555 b/2	0	.44	.44	.40	.32	.22	- - -	- - -	- - -	- - -	- - -
	1.5	-.05	-.18	-.30	-.47	-.63	-.09	.04	.15	.24	.31
	4.0	-.14	-.24	-.34	-.45	-.58	-.09	0	.08	.15	.21
	7.0	-.21	-.29	-.38	-.48	-.58	-.10	-.03	.04	.10	.15
	10.0	-.24	-.31	-.38	-.47	-.56	-.10	-.04	.01	.07	.12
	15.0	-.29	-.35	-.41	-.49	-.56	-.10	-.04	0	.04	.09
	20.0	-.36	-.42	-.48	-.54	-.60	-.10	-.05	-.01	.02	.06
	25.0	-.40	-.44	-.50	-.56	-.62	-.10	-.06	-.03	.01	.04
	30.0	-.42	-.47	-.52	-.58	-.63	-.10	-.06	-.03	0	.02
	35.0	-.48	-.52	-.56	-.62	-.67	-.10	-.07	-.04	-.01	.01
	40.0	-.52	-.56	-.61	-.66	-.71	-.10	-.07	-.05	-.02	0
	45.0	-.58	-.62	-.67	-.71	-.76	-.09	-.07	-.05	-.03	-.01
	50.0	-.63	-.67	-.71	-.76	-.80	-.08	-.06	-.04	-.03	-.01
	60.0	-.68	-.73	-.74	-.75	-.84	-.04	-.03	-.01	.01	.02
	70.0	-.59	-.70	-.70	-.74	-.80	.04	.05	.06	.04	.04
	80.0	-.08	-.21	-.35	-.46	-.48	.10	.10	.10	.08	.06
	90.0	.05	.06	-.07	-.19	-.12	.13	.13	.11	.11	.06
	95.0	.12	.13	.05	.01	.04	.15	.16	.15	.13	.07

NACA

TABLE XII.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.707 b/2	0	0.46	0.46	0.40	0.30	0.19	- - -	- - -	- - -	- - -	- - -
	1.5	-.04	-.17	-.31	-.49	-.74	-0.13	0.01	0.13	0.23	0.30
	4.0	-.16	-.26	-.38	-.52	-.65	-.13	-.03	.05	.12	.19
	7.0	-.23	-.33	-.43	-.55	-.67	-.12	-.05	.02	.08	.14
	10.0	-.26	-.35	-.44	-.54	-.66	-.12	-.06	0	.05	.10
	15.0	-.32	-.39	-.47	-.55	-.63	-.11	-.06	-.01	.03	.07
	20.0	-.39	-.45	-.53	-.61	-.68	-.10	-.06	-.02	.01	.04
	25.0	-.42	-.49	-.55	-.63	-.71	-.10	-.07	-.04	-.01	.02
	30.0	-.47	-.52	-.58	-.64	-.71	-.10	-.07	-.04	-.02	.01
	35.0	-.52	-.58	-.62	-.68	-.74	-.10	-.08	-.05	-.03	0
	40.0	-.57	-.63	-.68	-.73	-.78	-.10	-.08	-.06	-.05	-.02
	45.0	-.63	-.68	-.72	-.76	-.83	-.09	-.07	-.06	-.05	-.03
	50.0	-.69	-.73	-.76	-.72	-.84	-.08	-.07	-.06	-.05	-.04
	60.0	-.75	-.77	-.74	-.65	-.82	-.03	-.04	-.04	-.03	-.04
	70.0	-.09	-.44	-.44	-.37	-.51	.05	.05	.04	.01	0
	80.0	-.03	0	-.09	-.23	-.25	.11	.10	.08	.05	.04
	90.0	.07	.10	.03	-.10	-.08	.14	.14	.10	.05	.05
	95.0	.12	.14	.07	-.06	-.04	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	.47	.47	.41	.33	.22	- - -	- - -	- - -	- - -	- - -
	1.5	-.03	-.15	-.30	-.50	-.77	-.15	0	.12	.23	.29
	4.0	-.15	-.26	-.39	-.53	-.67	-.14	-.04	.04	.12	.17
	7.0	-.23	-.32	-.43	-.55	-.70	-.13	-.05	.01	.07	.12
	10.0	-.26	-.34	-.44	-.54	-.68	-.12	-.06	-.01	.05	.08
	15.0	-.33	-.40	-.48	-.56	-.65	-.12	-.07	-.03	.01	.05
	20.0	-.39	-.45	-.53	-.62	-.69	-.12	-.08	-.04	-.01	.01
	25.0	-.43	-.49	-.56	-.64	-.73	-.12	-.08	-.06	-.03	-.01
	30.0	-.48	-.53	-.59	-.66	-.75	-.12	-.10	-.08	-.05	-.04
	35.0	-.54	-.58	-.64	-.70	-.77	-.12	-.10	-.09	-.07	-.07
	40.0	-.59	-.64	-.69	-.74	-.81	-.12	-.11	-.11	-.10	-.10
	45.0	-.66	-.70	-.75	-.80	-.85	-.11	-.10	-.11	-.10	-.11
	50.0	-.73	-.76	-.74	-.74	-.81	-.08	-.08	-.10	-.10	-.11
	60.0	-.33	-.62	-.65	-.56	-.64	0	-.04	-.06	-.07	-.07
	70.0	-.04	-.11	-.21	-.09	-.29	.05	.05	.02	-.02	-.04
	80.0	-.04	.02	-.01	-.03	-.13	.12	.11	.08	.04	.02
	90.0	.06	.08	.06	.02	-.04	.15	.14	.11	.06	.03
	95.0	.12	.12	.10	.04	-.02	.16	.15	.12	.07	.03
0.924 b/2	0	.33	.40	.41	.40	.35	- - -	- - -	- - -	- - -	- - -
	1.5	-.03	-.15	-.32	-.52	-.78	-.20	-.04	.09	.20	.26
	4.0	-.15	-.26	-.38	-.52	-.69	- - -	- - -	- - -	- - -	- - -
	7.0	-.22	-.32	-.43	-.55	-.71	-.17	-.09	-.03	.03	.07
	10.0	-.28	-.36	-.46	-.57	-.70	-.18	-.12	-.06	-.01	.02
	15.0	-.36	-.42	-.51	-.60	-.69	-.19	-.14	-.10	-.06	-.04
	20.0	-.48	-.54	-.61	-.69	-.75	-.21	-.20	-.18	-.15	-.13
	25.0	-.52	-.58	-.64	-.72	-.79	-.16	-.16	-.17	-.16	-.16
	30.0	-.55	-.59	-.64	-.69	-.77	-.14	-.14	-.16	-.17	-.19
	35.0	-.57	-.62	-.67	-.71	-.79	-.12	-.13	-.15	-.16	-.18
	40.0	-.57	-.63	-.67	-.68	-.79	-.11	-.13	-.15	-.16	-.19
	45.0	-.54	-.62	-.64	-.65	-.80	-.08	-.11	-.13	-.15	-.18
	50.0	-.14	-.54	-.56	-.50	-.78	-.06	-.10	-.12	-.14	-.17
	60.0	- - -	- - -	- - -	- - -	- - -	-.01	-.01	-.03	-.10	-.12
	70.0	- - -	- - -	- - -	- - -	- - -	.05	.03	0	-.03	-.08
	80.0	-.05	-.05	-.05	-.08	-.10	.10	.09	.06	.04	-.01
	90.0	.05	.03	0	-.03	-.08	.12	.10	.08	.06	.02
	95.0	.11	.09	.05	.01	-.04	.14	.12	.10	.07	.02

TABLE XII.- CONTINUED

(c) α_u, 8°, 10°

Spanwise station	Percent chord	Upper surface Angle of attack 8°	Upper surface Angle of attack 10°				Lower surface Angle of attack 8°	Lower surface Angle of attack 10°			
0.086 b/2	0	0.48	0.36				- - -	- - -			
	1.5	-.19	-.36				0.38	0.46			
	4.0	-.20	-.33				.30	.38			
	7.0	-.20	-.30				.25	.31			
	10.0	-.22	-.30				.21	.28			
	15.0	-.24	-.31				.19	.26			
	20.0	-.27	-.34				.16	.23			
	25.0	-.29	-.35				.14	.20			
	30.0	-.32	-.39				.12	.18			
	35.0	-.35	-.41				.10	.15			
	40.0	-.40	-.47				.08	.13			
	45.0	-.45	-.52				.07	.11			
	50.0	-.50	-.57				.05	.09			
	60.0	-.54	-.61				.06	.10			
	70.0	-.59	-.67				.08	.11			
	80.0	-.65	-.73				.10	.12			
	90.0	-.33	-.40				.06	.07			
	95.0	-.20	-.28				.02	.01			
0.195 b/2	0	.31	.11				- - -	- - -			
	1.5	-.41	-.70				.37	.46			
	4.0	-.37	-.59				.28	.37			
	7.0	-.36	-.48				.23	.31			
	10.0	-.35	-.44				.19	.26			
	15.0	-.36	-.44				.16	.22			
	20.0	-.40	-.49				.13	.20			
	25.0	-.41	-.49				.11	.18			
	30.0	-.44	-.51				.10	.14			
	35.0	-.46	-.53				.08	.13			
	40.0	-.51	-.58				.06	.11			
	45.0	-.56	-.64				.05	.10			
	50.0	-.58	-.67				.03	.08			
	60.0	-.64	-.70				.05	.08			
	70.0	-.67	-.74				.06	.08			
	80.0	-.71	-.75				.08	.09			
	90.0	-.25	-.35				.05	.04			
	95.0	-.19	-.30				.01	0			
0.382 b/2	0	.20	0				- - -	- - -			
	1.5	-.68	-1.06				.36	.42			
	4.0	-.58	-1.02				.28	.36			
	7.0	-.58	-.91				.21	.30			
	10.0	-.51	-.58				.18	.26			
	15.0	-.52	-.64				.14	.21			
	20.0	-.55	-.68				.10	.18			
	25.0	-.56	-.67				.09	.15			
	30.0	-.58	-.67				.07	.13			
	35.0	-.61	-.70				.06	.11			
	40.0	-.64	-.74				.04	.09			
	45.0	-.70	-.80				.03	.07			
	50.0	-.74	-.83				.01	.06			
	60.0	-.76	-.87				.03	.06			
	70.0	-.81	-.75				.04	.06			
	80.0	-.36	-.41				.06	.07			
	90.0	-.31	-.39				.04	.02			
	95.0	-.28	-.38				.01	-.04			
0.555 b/2	0	.10	-.10				- - -	- - -			
	1.5	-.91	-1.20				.37	.44			
	4.0	-.75	-1.13				.27	.35			
	7.0	-.70	-1.05				.20	.29			
	10.0	-.66	-1.07				.16	.25			
	15.0	-.64	-.88				.12	.20			
	20.0	-.67	-.72				.10	.17			
	25.0	-.68	-.77				.08	.14			
	30.0	-.67	-.77				.06	.11			
	35.0	-.71	-.80				.04	.09			
	40.0	-.75	-.83				.02	.06			
	45.0	-.79	-.87				0	.05			
	50.0	-.84	-.92				-.01	.03			
	60.0	-.85	-.61				.01	.03			
	70.0	-.41	-.41				.02	.03			
	80.0	-.40	-.41				.03	.03			
	90.0	-.37	-.41				.01	-.02			
	95.0	-.34	-.39				-.03	-.06			

TABLE XII.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface Angle of attack 8°	Upper surface Angle of attack 10°					Lower surface Angle of attack 8°	Lower surface Angle of attack 10°			
0.707 b/2	0	0.07	-0.15					- - -	- - -			
	1.5	-1.03	-1.23					0.36	0.42			
	4.0	-.94	-1.20					.25	.33			
	7.0	-.85	-1.17					.18	.26			
	10.0	-.81	-1.14					.14	.21			
	15.0	-.74	-1.10					.11	.17			
	20.0	-.69	-1.07					.07	.13			
	25.0	-.75	-1.05					.05	.10			
	30.0	-.79	-1.05					.02	.07			
	35.0	-.80	-.89					.01	.05			
	40.0	-.82	-.85					-.02	.01			
	45.0	-.85	-.82					-.03	0			
	50.0	-.42	-.36					-.05	-.02			
	60.0	-.32	-.26					-.05	-.04			
	70.0	-.28	-.22					-.05	-.06			
	80.0	-.29	-.22					-.04	-.05			
	90.0	-.27	-.22					-.05	-.09			
	95.0	-.26	-.21					- - -	- - -			
0.831 b/2	0	11	-.11					- - -	- - -			
	1.5	-1.04	-1.23					.35	.40			
	4.0	-.95	-1.20					.23	.30			
	7.0	-.90	-1.17					.17	.22			
	10.0	-.84	-1.15					.12	.19			
	15.0	-.79	-1.12					.08	.13			
	20.0	-.75	-1.12					.05	.09			
	25.0	-.74	-1.12					.02	.06			
	30.0	-.78	-1.08					-.02	.01			
	35.0	-.83	-1.05					-.04	-.01			
	40.0	-.41	-1.00					-.09	-.06			
	45.0	-.28	-.85					-.11	-.09			
	50.0	-.24	-.73					-.13	-.13			
	60.0	-.21	-.20					-.11	-.14			
	70.0	-.18	-.19					-.09	-.14			
	80.0	-.18	-.19					-.04	-.10			
	90.0	-.17	-.16					-.05	-.09			
	95.0	-.17	-.14					-.08	-.09			
0.924 b/2	0	.28	.14					- - -	- - -			
	1.5	-1.04	-1.21					.32	.36			
	4.0	-.96	-1.19					- - -	- - -			
	7.0	-.92	-1.17					.12	.18			
	10.0	-.89	-1.15					.06	.11			
	15.0	-.84	-1.14					0	.04			
	20.0	-.84	-1.12					-.10	-.06			
	25.0	-.82	-1.09					-.14	-.12			
	30.0	-.75	-1.06					-.20	-.20			
	35.0	-.46	-.90					-.21	-.21			
	40.0	-.30	-.68					-.22	-.24			
	45.0	-.24	-.58					-.21	-.24			
	50.0	-.20	-.42					-.20	-.26			
	60.0	- - -	- - -					-.15	-.23			
	70.0	- - -	- - -					-.09	-.19			
	80.0	-.16	-.38					-.05	-.08			
	90.0	-.17	-.34					-.04	-.02			
	95.0	-.17	-.25					-.05	-.02			

TABLE XIII.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.93; R, 4,000,000

(a) α_u, -2°, -1°, 0°, 1°, 2°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.086 b/2	0	0.43	0.48	0.51	0.55	0.57	- - -	- - -	- - -	- - -	- - -
	1.5	.41	.37	.32	.28	.22	-0.39	-0.25	-0.16	-0.08	0
	4.0	.27	.23	.19	.15	.10	-.17	-.11	-.08	-.02	.02
	7.0	.20	.16	.12	.09	.05	-.16	-.10	-.06	-.02	.01
	10.0	.15	.12	.08	.05	.01	-.16	-.11	-.07	-.03	0
	15.0	.09	.07	.03	0	-.03	-.14	-.09	-.05	-.02	0
	20.0	.04	.02	-.02	-.04	-.08	-.15	-.11	-.08	-.04	-.02
	25.0	.01	-.02	-.05	-.07	-.11	-.18	-.14	-.10	-.07	-.04
	30.0	-.03	-.05	-.09	-.11	-.14	-.19	-.15	-.12	-.08	-.05
	35.0	-.07	-.09	-.12	-.15	-.18	-.21	-.17	-.14	-.10	-.08
	40.0	-.12	-.14	-.17	-.20	-.23	-.25	-.20	-.16	-.13	-.10
	45.0	-.16	-.19	-.21	-.24	-.28	-.27	-.21	-.18	-.14	-.11
	50.0	-.20	-.22	-.25	-.28	-.31	-.30	-.25	-.20	-.16	-.13
	60.0	-.26	-.29	-.32	-.34	-.38	-.26	-.20	-.15	-.11	-.09
	70.0	-.30	-.33	-.36	-.40	-.43	-.17	-.10	-.08	-.05	-.04
	80.0	-.29	-.33	-.37	-.43	-.47	-.05	-.02	0	.01	.03
	90.0	-.07	-.08	-.10	-.12	-.16	.01	.03	.03	.04	.04
	95.0	0	.01	0	-.02	-.04	.04	.05	.05	.04	.04
0.195 b/2	0	.28	.36	.41	.46	.49	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.32	.28	.22	.14	-.66	-.44	-.30	-.19	-.10
	4.0	.25	.20	.15	.10	.05	-.32	-.20	-.21	-.12	-.05
	7.0	.15	.12	.08	.03	-.02	-.27	-.22	-.16	-.11	-.06
	10.0	.11	.07	.03	-.01	-.05	-.27	-.22	-.16	-.11	-.07
	15.0	.05	.01	-.03	-.06	-.11	-.24	-.20	-.15	-.10	-.07
	20.0	-.01	-.04	-.08	-.12	-.16	-.24	-.20	-.15	-.11	-.09
	25.0	-.05	-.08	-.11	-.15	-.19	-.25	-.20	-.16	-.12	-.10
	30.0	-.10	-.12	-.15	-.19	-.23	-.26	-.21	-.18	-.13	-.11
	35.0	-.13	-.17	-.20	-.22	-.26	-.28	-.23	-.19	-.15	-.13
	40.0	-.19	-.21	-.24	-.27	-.32	-.31	-.26	-.21	-.17	-.14
	45.0	-.24	-.25	-.29	-.31	-.36	-.32	-.27	-.22	-.17	-.14
	50.0	-.27	-.30	-.32	-.35	-.40	-.33	-.27	-.20	-.17	-.14
	60.0	-.32	-.35	-.39	-.42	-.45	-.23	-.16	-.12	-.10	-.09
	70.0	-.35	-.39	-.42	-.46	-.50	-.09	-.06	-.04	-.03	-.01
	80.0	-.20	-.22	-.29	-.40	-.51	-.01	.01	.02	.02	.04
	90.0	-.02	-.02	-.02	-.04	-.05	.05	.05	.06	.05	.06
	95.0	.04	.05	.04	.03	.03	.07	.07	.07	.07	.07
0.382 b/2	0	.14	.22	.30	.37	.43	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.30	.26	.17	.11	-.91	-.72	-.51	-.36	-.15
	4.0	.22	.17	.12	.05	-.01	-.75	-.51	-.35	-.26	-.15
	7.0	.12	.08	.03	-.04	-.09	-.59	-.40	-.27	-.21	-.14
	10.0	.08	.03	-.01	-.08	-.12	-.43	-.34	-.26	-.20	-.14
	15.0	0	-.04	-.08	-.14	-.19	-.40	-.31	-.24	-.19	-.14
	20.0	-.06	-.10	-.14	-.19	-.25	-.36	-.31	-.24	-.18	-.14
	25.0	-.11	-.15	-.18	-.22	-.27	-.36	-.31	-.24	-.18	-.15
	30.0	-.15	-.19	-.22	-.26	-.32	-.38	-.31	-.22	-.18	-.15
	35.0	-.21	-.24	-.27	-.31	-.36	-.38	-.29	-.21	-.18	-.15
	40.0	-.25	-.29	-.32	-.36	-.40	-.38	-.26	-.20	-.18	-.15
	45.0	-.30	-.35	-.37	-.42	-.46	-.33	-.22	-.19	-.17	-.15
	50.0	-.34	-.39	-.41	-.46	-.50	-.24	-.20	-.17	-.15	-.13
	60.0	-.38	-.43	-.46	-.51	-.55	-.12	-.11	-.09	-.08	-.04
	70.0	-.22	-.25	-.36	-.53	-.19	-.05	-.04	-.02	-.02	0
	80.0	-.15	-.13	-.12	-.13	-.01	.03	.04	.05	.04	.06
	90.0	0	0	.01	.01	.05	.07	.07	.09	.08	.09
	95.0	.06	.07	.07	.06	-.21	.09	.10	.11	.09	.10
0.555 b/2	0	- - -	.17	.26	.34	.41	- - -	- - -	- - -	- - -	- - -
	1.5	- - -	.29	.24	.16	.08	- - -	-.91	-.70	-.48	-.27
	4.0	- - -	.17	.12	.05	-.03	- - -	-.82	-.48	-.38	-.22
	7.0	- - -	.07	.02	-.05	-.11	- - -	-.65	-.35	-.25	-.19
	10.0	- - -	.02	-.03	-.10	-.15	- - -	-.45	-.32	-.25	-.19
	15.0	- - -	-.06	-.10	-.16	-.21	- - -	-.41	-.28	-.22	-.16
	20.0	- - -	-.13	-.17	-.24	-.29	- - -	-.35	-.25	-.20	-.15
	25.0	- - -	-.17	-.21	-.26	-.31	- - -	-.31	-.24	-.20	-.14
	30.0	- - -	-.22	-.26	-.31	-.35	- - -	-.26	-.21	-.18	-.13
	35.0	- - -	-.27	-.31	-.36	-.39	- - -	-.25	-.20	-.18	-.13
	40.0	- - -	-.32	-.36	-.41	-.45	- - -	-.23	-.19	-.17	-.12
	45.0	- - -	-.38	-.41	-.48	-.51	- - -	-.21	-.17	-.16	-.11
	50.0	- - -	-.42	-.45	-.52	-.55	- - -	-.18	-.15	-.13	-.10
	60.0	- - -	-.28	-.43	-.57	-.60	- - -	-.09	-.06	-.06	-.04
	70.0	- - -	-.22	-.18	-.20	-.34	- - -	-.01	.01	0	.02
	80.0	- - -	-.15	-.12	-.10	-.08	- - -	.06	.07	.06	.08
	90.0	- - -	.01	.02	.02	.04	- - -	.09	.11	.10	.11
	95.0	- - -	.08	.09	.09	.08	- - -	.12	.13	.11	.12

TABLE XIII.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.707 b/2	0	- - -	0.08	0.20	0.31	0.42	- - -	- - -	- - -	- - -	- - -
	1.5	- - -	.32	.27	.19	.10	- - -	-0.92	-0.80	-0.58	-0.37
	4.0	- - -	.19	.13	.05	-.03	- - -	-.90	-.72	-.51	-.28
	7.0	- - -	.09	.03	-.05	-.12	- - -	-.80	-.53	-.31	-.23
	10.0	- - -	.03	-.02	-.10	-.16	- - -	-.62	-.36	-.28	-.21
	15.0	- - -	-.05	-.11	-.18	-.24	- - -	-.51	-.30	-.24	-.16
	20.0	- - -	-.12	-.17	-.24	-.30	- - -	-.37	-.26	-.21	-.15
	25.0	- - -	-.18	-.22	-.29	-.34	- - -	-.31	-.24	-.20	-.15
	30.0	- - -	-.23	-.28	-.34	-.39	- - -	-.27	-.22	-.18	-.14
	35.0	- - -	-.27	-.33	-.39	-.44	- - -	-.25	-.20	-.18	-.14
	40.0	- - -	-.29	-.37	-.44	-.49	- - -	-.22	-.19	-.17	-.14
	45.0	- - -	-.29	-.41	-.51	-.55	- - -	-.18	-.15	-.15	-.12
	50.0	- - -	-.30	-.39	-.55	-.60	- - -	-.15	-.13	-.12	-.10
	60.0	- - -	-.33	-.28	-.32	-.64	- - -	-.05	-.04	-.04	-.04
	70.0	- - -	-.28	-.25	-.19	-.14	- - -	.03	.05	.03	.04
	80.0	- - -	-.09	-.07	-.06	-.02	- - -	.09	.10	.10	.10
	90.0	- - -	.05	.05	.06	.08	- - -	.13	.14	.13	.13
	95.0	- - -	.10	.11	.11	.12	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	- - -	.18	.29	- - -	.44	- - -	- - -	- - -	- - -	- - -
	1.5	- - -	.35	.29	- - -	.12	- - -	-.88	-.80	- - -	-.43
	4.0	- - -	.21	.15	- - -	-.03	- - -	-.79	-.70	- - -	-.33
	7.0	- - -	.11	.05	- - -	-.12	- - -	-.78	-.61	- - -	-.25
	10.0	- - -	.05	0	- - -	-.17	- - -	-.60	-.38	- - -	-.21
	15.0	- - -	-.03	-.09	- - -	-.24	- - -	-.58	-.32	- - -	-.18
	20.0	- - -	-.10	-.15	- - -	-.31	- - -	-.41	-.27	- - -	-.17
	25.0	- - -	-.14	-.20	- - -	-.35	- - -	-.35	-.24	- - -	-.17
	30.0	- - -	-.19	-.25	- - -	-.40	- - -	-.29	-.23	- - -	-.16
	35.0	- - -	-.22	-.30	- - -	-.46	- - -	-.23	-.20	- - -	-.17
	40.0	- - -	-.28	-.34	- - -	-.52	- - -	-.18	-.15	- - -	-.18
	45.0	- - -	-.34	-.36	- - -	-.59	- - -	-.12	-.10	- - -	-.12
	50.0	- - -	-.42	-.40	- - -	-.66	- - -	-.07	-.05	- - -	-.08
	60.0	- - -	-.33	-.28	- - -	-.21	- - -	0	.01	- - -	-.01
	70.0	- - -	-.11	-.11	- - -	-.06	- - -	.06	.07	- - -	.05
	80.0	- - -	-.05	-.05	- - -	-.03	- - -	.12	.13	- - -	.11
	90.0	- - -	.07	.08	- - -	.08	- - -	.15	.16	- - -	.15
	95.0	- - -	.12	.13	- - -	.13	- - -	.16	.17	- - -	.14
0.924 b/2	0	- - -	-.41	-.23	- - -	.15	- - -	- - -	- - -	- - -	- - -
	1.5	- - -	.35	.31	- - -	.12	- - -	-.92	-.82	- - -	-.51
	4.0	- - -	.21	.16	- - -	-.02	- - -	- - -	- - -	- - -	- - -
	7.0	- - -	.11	.06	- - -	-.11	- - -	-.88	-.67	- - -	-.32
	10.0	- - -	.05	-.01	- - -	-.18	- - -	-.77	-.47	- - -	-.24
	15.0	- - -	-.05	-.12	- - -	-.27	- - -	-.74	-.43	- - -	-.25
	20.0	- - -	-.18	-.23	- - -	-.39	- - -	-.52	-.33	- - -	-.31
	25.0	- - -	-.24	-.30	- - -	-.45	- - -	-.25	-.19	- - -	-.22
	30.0	- - -	-.33	-.36	- - -	-.51	- - -	-.12	-.12	- - -	-.13
	35.0	- - -	-.36	-.36	- - -	-.55	- - -	-.08	-.09	- - -	-.12
	40.0	- - -	-.37	-.30	- - -	-.53	- - -	-.07	-.08	- - -	-.11
	45.0	- - -	-.34	-.25	- - -	-.49	- - -	-.05	-.05	- - -	-.09
	50.0	- - -	-.15	-.17	- - -	-.11	- - -	-.02	-.03	- - -	-.05
	60.0	- - -	- - -	- - -	- - -	- - -	- - -	.03	.03	- - -	.01
	70.0	- - -	- - -	- - -	- - -	- - -	- - -	.08	.09	- - -	.07
	80.0	- - -	-.02	-.01	- - -	-.02	- - -	.12	.14	- - -	.12
	90.0	- - -	.08	.10	- - -	.08	- - -	.14	.17	- - -	.15
	95.0	- - -	.13	.15	- - -	.13	- - -	.15	.18	- - -	.16

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TABLE XIII.- CONTINUED

(b) α_u, 3°, 4°, 5°, 6°, 7°

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.086 b/2	0	0.58	0.58	0.58	0.56	0.54	- - -	- - -	- - -	- - -	- - -
	1.5	.17	.11	.06	-.01	-.08	0.07	0.14	0.20	0.26	0.32
	4.0	.06	.01	-.03	-.08	-.13	.08	.12	.17	.21	.26
	7.0	.01	-.03	-.06	-.10	-.14	.06	.10	.13	.16	.21
	10.0	-.02	-.06	-.09	-.13	-.17	.04	.07	.11	.15	.18
	15.0	-.06	-.10	-.12	-.16	-.19	.04	.07	.10	.13	.16
	20.0	-.11	-.14	-.16	-.20	-.23	.01	.05	.08	.11	.14
	25.0	-.13	-.16	-.19	-.22	-.25	-.01	.02	.05	.08	.11
	30.0	-.17	-.20	-.22	-.25	-.28	-.02	.01	.04	.06	.10
	35.0	-.21	-.23	-.25	-.28	-.31	-.04	-.01	.01	.05	.08
	40.0	-.25	-.28	-.30	-.34	-.36	-.06	-.03	-.01	.02	.05
	45.0	-.30	-.33	-.35	-.39	-.41	-.08	-.05	-.02	0	.04
	50.0	-.34	-.37	-.40	-.42	-.45	-.10	-.06	-.04	-.01	.02
	60.0	-.40	-.43	-.45	-.48	-.50	-.05	-.03	-.01	.01	.04
	70.0	-.46	-.49	-.50	-.53	-.55	-.02	0	.02	.04	.06
	80.0	-.51	-.53	-.56	-.59	-.62	.04	.05	.06	.07	.09
	90.0	-.20	-.23	-.26	-.30	-.34	.05	.05	.05	.05	.06
	95.0	-.07	-.10	-.11	-.15	-.18	.03	.03	.02	.02	.01
0.195 b/2	0	.52	.40	.30	.44	.40	- - -	- - -	- - -	- - -	- - -
	1.5	.08	0	-.07	-.18	-.29	.01	.10	.18	.25	.30
	4.0	-.01	-.07	-.13	-.20	-.29	.01	.08	.13	.17	.23
	7.0	-.06	-.12	-.17	-.24	-.29	0	.04	.10	.14	.19
	10.0	-.09	-.15	-.19	-.24	-.29	-.01	.02	.06	.11	.13
	15.0	-.15	-.18	-.22	-.27	-.31	-.02	.01	.05	.09	.12
	20.0	-.20	-.23	-.27	-.31	-.35	-.04	0	.03	.07	.10
	25.0	-.21	-.25	-.28	-.32	-.36	-.05	-.02	.01	.04	.07
	30.0	-.26	-.29	-.32	-.35	-.39	-.07	-.03	0	.02	.06
	35.0	-.30	-.33	-.36	-.40	-.42	-.08	-.05	-.02	.01	.03
	40.0	-.35	-.38	-.41	-.45	-.49	-.10	-.07	-.04	-.01	.02
	45.0	-.40	-.43	-.46	-.50	-.52	-.10	-.07	-.04	-.02	.01
	50.0	-.42	-.45	-.48	-.51	-.56	-.10	-.07	-.05	-.03	0
	60.0	-.49	-.51	-.54	-.56	-.60	-.05	-.04	-.01	.01	.03
	70.0	-.53	-.57	-.59	-.62	-.65	0	.01	.03	.03	.04
	80.0	-.51	-.55	-.58	-.63	-.67	.06	.06	.07	.06	.06
	90.0	-.06	-.11	-.18	-.25	-.32	.07	.07	.06	.06	.05
	95.0	.04	.02	.01	-.02	-.05	.08	.07	.06	.04	.01
0.382 b/2	0	.46	.47	.45	.39	.31	- - -	- - -	- - -	- - -	- - -
	1.5	.03	-.07	-.15	-.28	-.43	-.07	.04	.14	.22	.29
	4.0	-.09	-.17	-.25	-.35	-.45	-.05	.02	.08	.15	.21
	7.0	-.16	-.23	-.30	-.37	-.46	-.07	-.01	.05	.09	.15
	10.0	-.17	-.23	-.30	-.36	-.44	-.08	-.02	.03	.07	.11
	15.0	-.24	-.29	-.34	-.41	-.45	-.08	-.03	.01	.05	.09
	20.0	-.29	-.34	-.39	-.44	-.50	-.08	-.04	0	.03	.07
	25.0	-.32	-.36	-.41	-.46	-.51	-.09	-.05	-.02	.01	.05
	30.0	-.35	-.41	-.44	-.49	-.53	-.09	-.06	-.03	0	.04
	35.0	-.40	-.44	-.48	-.53	-.57	-.10	-.07	-.04	-.01	.02
	40.0	-.44	-.49	-.51	-.56	-.60	-.11	-.08	-.05	-.02	0
	45.0	-.50	-.54	-.57	-.61	-.65	-.10	-.08	-.05	-.03	-.01
	50.0	-.54	-.59	-.60	-.65	-.70	-.10	-.07	-.05	-.04	-.02
	60.0	-.59	-.63	-.66	-.70	-.74	-.05	-.04	-.02	0	.01
	70.0	-.62	-.64	-.65	-.68	-.71	.03	.04	.05	.03	.02
	80.0	-.36	-.54	-.48	-.56	-.68	.09	.09	.09	.06	.07
	90.0	.01	-.01	-.12	-.23	-.40	.11	.11	.10	.09	.08
	95.0	.08	.06	-.03	-.15	-.22	.12	.11	.10	.08	.07
0.555 b/2	0	.45	.45	.41	.34	.25	- - -	- - -	- - -	- - -	- - -
	1.5	-.03	-.15	-.26	-.42	-.58	-.10	.05	.14	.23	.31
	4.0	-.11	-.21	-.31	-.42	-.54	-.10	.01	.08	.15	.21
	7.0	-.19	-.26	-.35	-.45	-.55	-.11	-.02	.04	.09	.15
	10.0	-.22	-.29	-.36	-.45	-.53	-.11	-.04	.02	.07	.12
	15.0	-.28	-.33	-.40	-.47	-.54	-.10	-.04	0	.05	.09
	20.0	-.35	-.40	-.46	-.53	-.59	-.10	-.04	-.01	.02	.07
	25.0	-.37	-.42	-.48	-.54	-.60	-.10	-.05	-.02	.01	.04
	30.0	-.41	-.45	-.51	-.56	-.61	-.10	-.05	-.03	0	.03
	35.0	-.46	-.50	-.55	-.60	-.64	-.10	-.06	-.04	-.02	.01
	40.0	-.50	-.54	-.59	-.64	-.68	-.10	-.07	-.05	-.03	-.01
	45.0	-.57	-.60	-.65	-.69	-.73	-.10	-.06	-.05	-.03	-.01
	50.0	-.60	-.65	-.69	-.74	-.78	-.08	-.05	-.05	-.03	-.02
	60.0	-.66	-.70	-.73	-.76	-.81	-.04	-.02	-.01	0	.01
	70.0	-.69	-.70	-.69	-.73	-.79	.04	.06	.06	.03	.03
	80.0	-.10	-.31	-.42	-.53	-.53	.10	.11	.09	.07	.05
	90.0	.05	.07	-.13	-.24	-.13	.12	.14	.12	.10	.04
	95.0	.11	.15	.04	-.03	0	.15	.16	.14	.11	.04

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TABLE XIII.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.797 b/2	0	0.46	0.46	0.42	0.33	0.22	- - -	- - -	- - -	- - -	- - -
	1.5	-.01	-.14	-.27	-.44	-.66	-0.16	0.01	0.11	0.21	0.29
	4.0	-.13	-.24	-.35	-.49	-.61	-.14	-.03	.05	.12	.19
	7.0	-.21	-.31	-.40	-.52	-.63	-.13	-.04	.02	.08	.13
	10.0	-.25	-.32	-.41	-.51	-.62	-.13	-.05	0	.05	.10
	15.0	-.30	-.37	-.45	-.52	-.60	-.11	-.05	-.01	.02	.06
	20.0	-.37	-.43	-.51	-.59	-.65	-.11	-.06	-.02	.01	.04
	25.0	-.41	-.46	-.53	-.61	-.68	-.11	-.06	-.04	-.01	.02
	30.0	-.45	-.50	-.56	-.63	-.70	-.11	-.07	-.04	-.03	0
	35.0	-.50	-.55	-.61	-.66	-.71	-.11	-.07	-.05	-.04	-.01
	40.0	-.55	-.60	-.66	-.71	-.75	-.11	-.08	-.06	-.05	-.03
	45.0	-.61	-.65	-.70	-.75	-.80	-.10	-.07	-.06	-.05	-.04
	50.0	-.66	-.70	-.75	-.73	-.80	-.09	-.06	-.06	-.06	-.05
	60.0	-.73	-.77	-.74	-.69	-.78	-.02	-.04	-.03	-.04	-.05
	70.0	-.23	-.52	-.51	-.40	-.48	.05	.06	.04	0	-.02
	80.0	-.01	-.04	-.11	-.25	-.32	.11	.11	.08	.04	.03
	90.0	.10	.12	.05	-.14	-.21	.15	.15	.10	.04	.02
	95.0	.14	.15	.08	-.10	-.18	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	.48	.48	.44	.35	.25	- - -	- - -	- - -	- - -	- - -
	1.5	.01	-.13	-.25	-.43	-.66	-.19	-.01	.10	.21	.28
	4.0	-.13	-.24	-.34	-.49	-.61	-.16	-.04	.04	.11	.17
	7.0	-.20	-.30	-.39	-.52	-.65	-.14	-.05	0	.07	.11
	10.0	-.24	-.33	-.41	-.51	-.64	-.13	-.06	-.01	.04	.08
	15.0	-.31	-.38	-.45	-.54	-.62	-.12	-.07	-.03	.01	.04
	20.0	-.37	-.44	-.50	-.59	-.66	-.11	-.07	-.04	-.01	.01
	25.0	-.41	-.47	-.53	-.62	-.70	-.11	-.08	-.05	-.03	-.01
	30.0	-.45	-.51	-.56	-.64	-.72	-.12	-.09	-.07	-.05	-.04
	35.0	-.51	-.57	-.62	-.68	-.75	-.12	-.10	-.09	-.07	-.06
	40.0	-.56	-.62	-.66	-.72	-.78	-.13	-.11	-.11	-.11	-.10
	45.0	-.63	-.68	-.76	-.78	-.82	-.11	-.10	-.11	-.12	-.12
	50.0	-.71	-.75	-.74	-.75	-.80	-.07	-.08	-.09	-.11	-.13
	60.0	-.59	-.69	-.68	-.68	-.71	0	-.03	-.05	-.08	-.09
	70.0	-.03	-.19	-.25	-.15	-.31	.06	.06	.03	-.03	-.05
	80.0	.02	.02	-.04	-.04	-.12	.12	.12	.09	.02	-.01
	90.0	.09	.10	.07	.01	-.05	.16	.14	.12	.05	0
	95.0	.14	.13	.10	.02	-.05	.17	.16	.13	.06	.01
0.924 b/2	0	.31	.40	.42	.40	.36	- - -	- - -	- - -	- - -	- - -
	1.5	.01	-.13	-.25	-.44	-.66	-.25	-.05	.06	.17	.25
	4.0	-.12	-.24	-.34	-.48	-.62	- - -	- - -	- - -	- - -	- - -
	7.0	-.20	-.30	-.39	-.52	-.66	-.18	-.09	-.03	.02	.07
	10.0	-.25	-.34	-.42	-.53	-.65	-.18	-.11	-.06	-.02	.02
	15.0	-.33	-.41	-.47	-.57	-.65	-.19	-.14	-.10	-.07	-.04
	20.0	-.45	-.51	-.57	-.65	-.72	-.24	-.20	-.18	-.16	-.14
	25.0	-.50	-.56	-.61	-.69	-.76	-.19	-.18	-.18	-.18	-.18
	30.0	-.54	-.58	-.61	-.68	-.74	-.13	-.14	-.15	-.18	-.20
	35.0	-.57	-.61	-.64	-.70	-.76	-.12	-.13	-.15	-.17	-.20
	40.0	-.58	-.62	-.65	-.69	-.76	-.10	-.13	-.14	-.18	-.20
	45.0	-.60	-.64	-.63	-.66	-.76	-.09	-.11	-.13	-.16	-.19
	50.0	-.46	-.59	-.59	-.59	-.74	-.06	-.09	-.11	-.16	-.18
	60.0	- - -	- - -	- - -	- - -	- - -	0	-.01	-.02	-.12	-.15
	70.0	- - -	- - -	- - -	- - -	- - -	.06	.04	.01	-.05	-.10
	80.0	-.02	-.02	-.03	-.07	-.10	.12	.10	.08	.06	-.03
	90.0	.07	.05	.02	-.03	-.08	.14	.11	.09	.07	.02
	95.0	.12	.10	.06	.01	-.05	.16	.13	.11	.07	.02

TABLE XIII.- CONTINUED

(c) α_u, 8°, 9°

Spanwise station	Percent chord	Upper surface Angle of attack 8°	Upper surface Angle of attack 9°					Lower surface Angle of attack 8°	Lower surface Angle of attack 9°			
0.086 b/2	0	0.49	0.44					- - -	- - -			
	1.5	-.16	-.25					0.38	0.42			
	4.0	-.19	-.25					.30	.34			
	7.0	-.19	-.24					.25	.29			
	10.0	-.20	-.25					.21	.25			
	15.0	-.22	-.26					.20	.23			
	20.0	-.26	-.29					.17	.20			
	25.0	-.28	-.31					.14	.17			
	30.0	-.31	-.33					.12	.15			
	35.0	-.34	-.36					.11	.13			
	40.0	-.39	-.42					.08	.11			
	45.0	-.44	-.47					.06	.09			
	50.0	-.49	-.51					.05	.07			
	60.0	-.53	-.56					.06	.08			
	70.0	-.58	-.61					.07	.09			
	80.0	-.64	-.68					.10	.11			
	90.0	-.37	-.40					.06	.06			
	95.0	-.21	-.25					.01	0			
0.195 b/2	0	.32	.23					- - -	- - -			
	1.5	-.40	-.32					.36	.42			
	4.0	-.36	-.45					.29	.32			
	7.0	-.36	-.41					.23	.27			
	10.0	-.34	-.40					.19	.23			
	15.0	-.35	-.40					.16	.20			
	20.0	-.40	-.41					.14	.16			
	25.0	-.40	-.42					.10	.15			
	30.0	-.42	-.46					.10	.13			
	35.0	-.45	-.48					.08	.11			
	40.0	-.51	-.53					.05	.08			
	45.0	-.55	-.59					.04	.07			
	50.0	-.58	-.61					.03	.05			
	60.0	-.62	-.65					.05	.06			
	70.0	-.67	-.72					.06	.07			
	80.0	-.71	-.75					.08	.08			
	90.0	-.26	-.32					.04	.04			
	95.0	-.19	-.28					0	-.01			
0.382 b/2	0	.22	.12					- - -	- - -			
	1.5	-.65	-.84					.36	.41			
	4.0	-.55	-.80					.28	.31			
	7.0	-.56	-.61					.21	.25			
	10.0	-.49	-.55					.18	.21			
	15.0	-.51	-.56					.14	.18			
	20.0	-.54	-.59					.11	.14			
	25.0	-.54	-.60					.09	.12			
	30.0	-.56	-.61					.08	.10			
	35.0	-.60	-.65					.06	.08			
	40.0	-.63	-.69					.03	.05			
	45.0	-.69	-.75					.02	.04			
	50.0	-.72	-.78					.01	.03			
	60.0	-.75	-.80					.03	.04			
	70.0	-.81	-.85					.03	.04			
	80.0	-.40	-.42					.05	.05			
	90.0	-.34	-.39					.02	0			
	95.0	-.30	-.37					-.01	-.05			
0.555 b/2	0	.12	.03					- - -	- - -			
	1.5	-.86	-1.03					.36	.41			
	4.0	-.72	-.92					.26	.31			
	7.0	-.68	-.88					.19	.24			
	10.0	-.64	-.82					.15	.20			
	15.0	-.63	-.62					.11	.16			
	20.0	-.65	-.71					.09	.13			
	25.0	-.66	-.72					.07	.10			
	30.0	-.66	-.72					.05	.08			
	35.0	-.70	-.74					.02	.06			
	40.0	-.74	-.78					0	.03			
	45.0	-.78	-.82					-.01	.01			
	50.0	-.82	-.87					-.02	0			
	60.0	-.89	-.90					-.01	0			
	70.0	-.45	-.45					0	0			
	80.0	-.41	-.43					.01	.01			
	90.0	-.40	-.43					-.02	-.04			
	95.0	-.39	-.42					-.06	-.08			

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TABLE XIII.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface Angle of attack 8°	9°					Lower surface Angle of attack 8°	9°			
0.707 b/2	0	0.09	-0.01					- - -	- - -			
	1.5	-.98	-1.09					0.35	0.38			
	4.0	-.89	-1.04					.24	.28			
	7.0	-.81	-.99					.17	.21			
	10.0	-.78	-.97					.12	.17			
	15.0	-.73	-.91					.09	.13			
	20.0	-.71	-.86					.06	.09			
	25.0	-.74	-.74					.04	.06			
	30.0	-.77	-.80					.01	.04			
	35.0	-.78	-.84					-.01	.01			
	40.0	-.80	-.86					-.04	-.02			
	45.0	-.85	-.88					-.05	-.04			
	50.0	-.73	-.54					-.07	-.05			
	60.0	-.36	-.33					-.08	-.07			
	70.0	-.32	-.29					-.08	-.09			
	80.0	-.32	-.28					-.06	-.08			
	90.0	-.30	-.28					-.08	-.10			
	95.0	-.28	-.27					- - -	- - -			
0.831 b/2	0	.15	.05					- - -	- - -			
	1.5	-.98	-1.09					.35	.38			
	4.0	-.90	-1.03					.22	.26			
	7.0	-.84	-1.00					.16	.20			
	10.0	-.80	-.98					.12	.15			
	15.0	-.75	-.94					.07	.10			
	20.0	-.74	-.91					.04	.06			
	25.0	-.73	-.89					.01	.03			
	30.0	-.76	-.86					-.02	-.01			
	35.0	-.80	-.83					-.05	-.04			
	40.0	-.60	-.76					-.10	-.09			
	45.0	-.38	-.40					-.12	-.11			
	50.0	-.28	-.30					-.16	-.15			
	60.0	-.24	-.24					-.14	-.15			
	70.0	-.20	-.21					-.12	-.15			
	80.0	-.20	-.21					-.08	-.11			
	90.0	-.19	-.21					-.08	-.11			
	95.0	-.19	-.20					-.10	-.13			
0.924 b/2	0	.31	.25					- - -	- - -			
	1.5	-.96	-1.06					.31	.34			
	4.0	-.90	-1.02					- - -	- - -			
	7.0	-.87	-1.00					.11	.15			
	10.0	-.84	-.98					.06	.09			
	15.0	-.80	-.96					-.01	.01			
	20.0	-.81	-.97					-.11	-.09			
	25.0	-.81	-.95					-.15	-.14			
	30.0	-.76	-.91					-.22	-.21			
	35.0	-.68	-.88					-.23	-.23			
	40.0	-.50	-.63					-.24	-.25			
	45.0	-.38	-.46					-.24	-.26			
	50.0	-.29	-.31					-.24	-.25			
	60.0	- - -	- - -					-.20	-.23			
	70.0	- - -	- - -					-.15	-.21			
	80.0	-.19	-.23					-.07	-.11			
	90.0	-.19	-.22					-.04	-.05			
	95.0	-.17	-.19					-.04	-.05			

TABLE XIV.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.94; R, 4,000,000

(a) α_u, -2°, -1°, 0°, 1°, 2°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.086b/2	0	0.44	0.47	0.52	0.55	0.54	- - -	- - -	- - -	- - -	- - -
	1.5	.40	.36	.31	.27	.21	-0.36	-0.27	-0.18	-0.09	-0.01
	4.0	.25	.22	.18	.13	.10	-.17	-.13	-.09	-.03	.01
	7.0	.18	.15	.12	.09	.04	-.15	-.11	-.07	-.03	.01
	10.0	.15	.11	.08	.05	0	-.16	-.12	-.08	-.04	-.01
	15.0	.09	.06	.03	-.01	-.04	-.14	-.11	-.06	-.03	-.01
	20.0	.04	0	-.02	-.05	-.09	-.15	-.13	-.09	-.05	-.03
	25.0	0	-.03	-.05	-.08	-.11	-.18	-.15	-.12	-.09	-.05
	30.0	-.03	-.06	-.09	-.12	-.16	-.20	-.17	-.13	-.09	-.07
	35.0	-.08	-.11	-.13	-.15	-.20	-.21	-.19	-.15	-.11	-.09
	40.0	-.12	-.15	-.18	-.20	-.24	-.25	-.22	-.19	-.14	-.12
	45.0	-.17	-.20	-.24	-.25	-.30	-.27	-.24	-.20	-.16	-.14
	50.0	-.20	-.24	-.26	-.29	-.32	-.31	-.28	-.23	-.19	-.15
	60.0	-.28	-.30	-.33	-.35	-.39	-.30	-.25	-.20	-.15	-.11
	70.0	-.33	-.35	-.39	-.40	-.44	-.23	-.16	-.11	-.08	-.06
	80.0	-.35	-.40	-.42	-.46	-.49	-.10	-.05	-.03	-.01	0
	90.0	-.11	-.12	-.15	-.19	-.21	-.02	0	.01	.01	.02
	95.0	-.02	-.03	-.04	-.06	-.09	.01	.02	.01	.01	.01
0.195b/2	0	.29	.35	.41	.46	.49	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.32	.27	.21	.15	-.62	-.44	-.30	-.20	-.10
	4.0	.25	.20	.15	.10	.04	-.30	-.22	-.21	-.13	-.06
	7.0	.16	.12	.08	.03	-.02	-.26	-.23	-.15	-.11	-.06
	10.0	.11	.07	.03	-.01	-.05	-.26	-.23	-.16	-.12	-.08
	15.0	.05	.01	-.02	-.06	-.11	-.23	-.19	-.14	-.10	-.08
	20.0	-.01	-.05	-.08	-.12	-.17	-.23	-.20	-.15	-.12	-.09
	25.0	-.04	-.08	-.11	-.15	-.19	-.24	-.21	-.17	-.12	-.11
	30.0	-.09	-.13	-.15	-.19	-.24	-.25	-.22	-.18	-.14	-.12
	35.0	-.14	-.17	-.19	-.23	-.27	-.27	-.24	-.20	-.16	-.14
	40.0	-.19	-.22	-.24	-.27	-.32	-.31	-.27	-.23	-.18	-.16
	45.0	-.23	-.26	-.29	-.32	-.36	-.33	-.28	-.24	-.20	-.16
	50.0	-.27	-.30	-.33	-.35	-.40	-.35	-.30	-.24	-.20	-.15
	60.0	-.33	-.36	-.39	-.42	-.46	-.29	-.21	-.14	-.11	-.11
	70.0	-.36	-.40	-.43	-.46	-.50	-.14	-.09	-.06	-.05	-.02
	80.0	-.28	-.34	-.41	-.49	-.54	-.03	-.01	.01	0	.03
	90.0	-.03	-.04	-.05	-.08	-.09	.04	.04	.04	.04	.05
	95.0	.03	.03	.02	0	0	.06	.06	.06	.05	.04
0.382b/2	0	.16	.23	.30	.37	.42	- - -	- - -	- - -	- - -	- - -
	1.5	.35	.30	.25	.19	.21	-.84	-.71	-.52	-.37	-.22
	4.0	.22	.17	.12	.06	-.02	-.69	-.51	-.37	-.27	-.16
	7.0	.13	.08	.03	-.03	-.10	-.58	-.39	-.28	-.23	-.16
	10.0	.08	.03	-.01	-.06	-.13	-.41	-.33	-.26	-.20	-.16
	15.0	0	-.05	-.09	-.14	-.20	-.38	-.31	-.26	-.20	-.15
	20.0	-.06	-.10	-.15	-.19	-.25	-.36	-.31	-.25	-.20	-.16
	25.0	-.11	-.15	-.19	-.22	-.28	-.35	-.32	-.26	-.21	-.16
	30.0	-.15	-.20	-.23	-.26	-.32	-.37	-.32	-.26	-.20	-.16
	35.0	-.20	-.24	-.27	-.31	-.36	-.38	-.33	-.26	-.20	-.16
	40.0	-.25	-.30	-.32	-.36	-.40	-.41	-.33	-.24	-.20	-.17
	45.0	-.30	-.35	-.38	-.41	-.45	-.41	-.31	-.21	-.19	-.17
	50.0	-.34	-.39	-.42	-.46	-.50	-.36	-.24	-.19	-.18	-.15
	60.0	-.40	-.44	-.48	-.51	-.56	-.16	-.12	-.11	-.10	-.06
	70.0	-.35	-.44	-.51	-.55	-.59	-.06	-.05	-.04	-.04	-.02
	80.0	-.14	-.14	-.15	-.20	-.26	.02	.02	.03	.03	.05
	90.0	0	0	0	-.02	-.05	.07	.07	.07	.06	.06
	95.0	.06	.06	.06	.03	.01	.09	.09	.08	.06	.07
0.555b/2	0	.12	.17	.25	.34	.40	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.28	.22	.16	.07	-.97	-.89	-.73	-.50	-.29
	4.0	.23	.17	.10	.05	-.03	-.94	-.83	-.55	-.40	-.23
	7.0	.12	.03	.01	-.04	-.11	-.78	-.63	-.39	-.28	-.21
	10.0	.07	.01	-.04	-.09	-.17	-.58	-.46	-.38	-.26	-.20
	15.0	0	-.07	-.12	-.15	-.23	-.52	-.42	-.33	-.23	-.18
	20.0	-.07	-.14	-.18	-.24	-.30	-.46	-.39	-.30	-.21	-.17
	25.0	-.12	-.17	-.22	-.26	-.33	-.46	-.38	-.29	-.21	-.16
	30.0	-.17	-.23	-.27	-.30	-.36	-.45	-.34	-.24	-.20	-.14
	35.0	-.22	-.28	-.33	-.35	-.40	-.43	-.29	-.23	-.20	-.15
	40.0	-.27	-.33	-.38	-.40	-.46	-.35	-.24	-.22	-.19	-.14
	45.0	-.33	-.38	-.44	-.47	-.52	-.26	-.20	-.22	-.17	-.14
	50.0	-.37	-.43	-.49	-.51	-.57	-.19	-.18	-.18	-.14	-.13
	60.0	-.34	-.46	-.54	-.57	-.62	-.09	-.09	-.09	-.07	-.06
	70.0	-.18	-.18	-.24	-.40	-.57	-.01	-.01	-.02	-.01	0
	80.0	-.13	-.13	-.10	-.09	-.12	.06	.06	.05	.06	.06
	90.0	.01	.01	.01	.02	-.01	.10	.10	.09	.09	.09
	95.0	.08	.07	.07	.07	.04	.12	.11	.11	.11	.10

NACA

TABLE XIV.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.707 b/2	0	0	0.07	0.17	0.30	0.41	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.29	.25	.20	.10	-1.11	-1.02	-0.86	-0.64	-0.40
	4.0	.24	.18	.12	.06	-.03	-1.14	-1.06	-.80	-.55	-.31
	7.0	.14	.08	.02	-.04	-.13	-1.00	-.85	-.63	-.34	-.27
	10.0	.08	.02	-.04	-.09	-.17	-.96	-.67	-.41	-.30	-.24
	15.0	0	-.06	-.12	-.17	-.25	-.69	-.53	-.34	-.26	-.17
	20.0	-.07	-.13	-.19	-.23	-.31	-.56	-.38	-.30	-.23	-.17
	25.0	-.12	-.19	-.24	-.28	-.35	-.50	-.33	-.28	-.22	-.17
	30.0	-.18	-.24	-.30	-.33	-.40	-.36	-.27	-.26	-.20	-.17
	35.0	-.22	-.29	-.35	-.39	-.45	-.29	-.25	-.24	-.19	-.16
	40.0	-.26	-.34	-.40	-.44	-.50	-.21	-.23	-.23	-.19	-.16
	45.0	-.28	-.39	-.47	-.50	-.57	-.16	-.20	-.19	-.17	-.14
	50.0	-.27	-.39	-.52	-.55	-.61	-.12	-.15	-.16	-.14	-.13
	60.0	-.27	-.27	-.37	-.59	-.71	-.04	-.06	-.06	-.06	-.06
	70.0	-.28	-.29	-.25	-.18	-.20	.03	.02	.02	.03	.02
	80.0	-.10	-.09	-.08	-.03	-.04	.10	.09	.09	.10	.09
	90.0	.05	.05	.05	.07	.06	.13	.12	.12	.13	.12
	95.0	.11	.11	.10	.11	.10	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	.08	.17	.26	.34	.42	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.32	.28	.20	.11	-1.23	-1.11	-.84	-.71	-.43
	4.0	.25	.19	.14	.06	-.03	-1.22	-1.04	-.74	-.65	-.35
	7.0	.15	.09	.04	-.04	-.12	-1.18	-.95	-.68	-.41	-.28
	10.0	.09	.03	-.02	-.09	-.17	-1.14	-.74	-.47	-.32	-.24
	15.0	0	-.05	-.11	-.17	-.24	-.96	-.60	-.41	-.28	-.20
	20.0	-.07	-.13	-.18	-.24	-.31	-.74	-.43	-.32	-.26	-.20
	25.0	-.11	-.17	-.23	-.29	-.35	-.49	-.38	-.29	-.25	-.19
	30.0	-.16	-.24	-.29	-.35	-.40	-.31	-.31	-.26	-.24	-.18
	35.0	-.21	-.28	-.35	-.40	-.46	-.18	-.25	-.24	-.22	-.18
	40.0	-.26	-.34	-.42	-.47	-.51	-.12	-.21	-.21	-.22	-.21
	45.0	-.31	-.36	-.49	-.55	-.59	-.10	-.14	-.14	-.19	-.19
	50.0	-.38	-.40	-.53	-.63	-.67	-.07	-.09	-.07	-.09	-.10
	60.0	-.40	-.40	-.32	-.41	-.45	-.01	0	0	-.02	-.03
	70.0	-.11	-.10	-.09	-.06	-.06	.05	.06	.06	.04	.03
	80.0	-.06	-.05	-.04	-.01	0	.10	.11	.12	.11	.10
	90.0	.05	.06	.08	.08	.08	.13	.14	.15	.14	.14
	95.0	.11	.11	.12	.13	.12	.15	.15	.16	.15	.15
0.924 b/2	0	-.56	-.42	-.25	-.08	.11	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.33	.28	.22	.11	-1.10	-1.05	-.88	-.78	-.50
	4.0	.25	.20	.14	.07	-.02	- - -	- - -	- - -	- - -	- - -
	7.0	.16	.09	.05	-.03	-.11	-1.01	-.98	-.73	-.54	-.36
	10.0	.08	.02	-.03	-.10	-.17	-.90	-.88	-.54	-.36	-.26
	15.0	-.02	-.08	-.14	-.20	-.27	-.82	-.79	-.53	-.34	-.26
	20.0	-.14	-.21	-.26	-.32	-.39	-.72	-.62	-.42	-.36	-.31
	25.0	-.21	-.28	-.34	-.39	-.45	-.65	-.41	-.31	-.31	-.30
	30.0	-.30	-.36	-.44	-.49	-.52	-.54	-.19	-.17	-.17	-.18
	35.0	-.34	-.40	-.48	-.53	-.56	-.44	-.10	-.11	-.13	-.14
	40.0	-.38	-.41	-.50	-.55	-.58	-.33	-.08	-.10	-.12	-.13
	45.0	-.41	-.41	-.42	-.61	-.62	-.22	-.05	-.06	-.09	-.11
	50.0	-.33	-.23	-.12	-.26	-.44	-.15	-.03	-.04	-.06	-.08
	60.0	-.10	-.11	-.11	-.06	-.02	-.01	.02	.02	.01	0
	70.0	- - -	- - -	- - -	- - -	- - -	.04	.07	.08	.07	.06
	80.0	-.03	-.02	-.01	-.01	-.01	.10	.12	.13	.12	.11
	90.0	.07	.08	.09	.09	.09	.12	.14	.15	.15	.14
	95.0	.12	.12	.14	.14	.13	.15	.15	.17	.16	.16

TABLE XIV.- CONTINUED

(b) α_u, 3°, 4°, 5°

Spanwise station	Percent chord	Upper surface Angle of attack 3°	4°	5°			Lower surface Angle of attack 3°	4°	5°		
0.086 b/2	0	0.58	0.58	0.57			- - -	- - -	- - -		
	1.5	.15	.10	.04			0.07	0.13	0.20		
	4.0	.05	.01	-.04			.07	.12	.16		
	7.0	0	-.04	-.08			.05	.09	.12		
	10.0	-.04	-.07	-.10			.03	.07	.10		
	15.0	-.08	-.11	-.15			.03	.06	.09		
	20.0	-.12	-.15	-.18			.01	.04	.07		
	25.0	-.15	-.17	-.21			-.02	.01	.04		
	30.0	-.19	-.21	-.23			-.03	0	.03		
	35.0	-.21	-.25	-.26			-.05	-.02	0		
	40.0	-.27	-.29	-.31			-.09	-.04	-.02		
	45.0	-.31	-.34	-.36			-.09	-.06	-.04		
	50.0	-.36	-.37	-.41			-.11	-.08	-.05		
	60.0	-.41	-.43	-.46			-.07	-.05	-.02		
	70.0	-.47	-.49	-.52			-.04	-.01	.01		
	80.0	-.52	-.54	-.57			.02	.04	.05		
	90.0	-.24	-.26	-.31			.03	.03	.02		
	95.0	-.10	-.12	-.15			.01	.01	0		
0.195 b/2	0	.51	.51	.49			- - -	- - -	- - -		
	1.5	.08	0	-.08			.01	.10	.17		
	4.0	-.01	-.06	-.14			.01	.08	.12		
	7.0	-.07	-.11	-.17			0	.05	.09		
	10.0	-.10	-.14	-.19			-.02	.03	.06		
	15.0	-.15	-.18	-.22			-.02	.02	.05		
	20.0	-.20	-.23	-.27			-.04	0	.02		
	25.0	-.22	-.25	-.28			-.06	-.02	0		
	30.0	-.26	-.29	-.32			-.07	-.04	-.01		
	35.0	-.30	-.32	-.36			-.09	-.05	-.03		
	40.0	-.34	-.37	-.41			-.11	-.07	-.05		
	45.0	-.39	-.42	-.45			-.11	-.08	-.05		
	50.0	-.42	-.44	-.48			-.11	-.08	-.06		
	60.0	-.48	-.51	-.53			-.06	-.04	-.03		
	70.0	-.52	-.55	-.59			-.01	0	.01		
	80.0	-.52	-.55	-.60			.05	.06	.05		
	90.0	-.12	-.19	-.29			.05	.06	.05		
	95.0	.01	.01	-.02			.06	.06	.03		
0.382 b/2	0	.46	.47	.46			- - -	- - -	- - -		
	1.5	.02	-.06	-.18			-.07	.04	.13		
	4.0	-.09	-.16	-.25			-.06	.02	.08		
	7.0	-.16	-.22	-.29			-.08	-.01	.04		
	10.0	-.18	-.23	-.30			-.08	-.03	.02		
	15.0	-.24	-.28	-.34			-.08	-.03	0		
	20.0	-.29	-.34	-.39			-.09	-.04	-.01		
	25.0	-.32	-.36	-.41			-.10	-.06	-.03		
	30.0	-.35	-.39	-.44			-.10	-.06	-.04		
	35.0	-.40	-.43	-.48			-.11	-.07	-.05		
	40.0	-.44	-.48	-.52			-.12	-.09	-.06		
	45.0	-.49	-.53	-.57			-.12	-.09	-.07		
	50.0	-.53	-.56	-.60			-.11	-.08	-.07		
	60.0	-.59	-.62	-.66			-.07	-.04	-.03		
	70.0	-.62	-.65	-.65			.01	.03	.02		
	80.0	-.55	-.60	-.56			.07	.08	.07		
	90.0	-.03	-.04	-.20			.08	.10	.08		
	95.0	.05	.06	-.13			.10	.10	.07		
0.555 b/2	0	.44	.44	.41			- - -	- - -	- - -		
	1.5	-.04	-.15	-.27			-.10	.02	.14		
	4.0	-.12	-.21	-.30			-.10	-.01	.07		
	7.0	-.19	-.27	-.34			-.11	-.04	.02		
	10.0	-.23	-.30	-.37			-.12	-.05	.01		
	15.0	-.28	-.34	-.39			-.11	-.05	0		
	20.0	-.35	-.41	-.45			-.11	-.07	-.02		
	25.0	-.37	-.44	-.47			-.11	-.08	-.03		
	30.0	-.41	-.46	-.51			-.11	-.08	-.04		
	35.0	-.46	-.52	-.54			-.12	-.09	-.06		
	40.0	-.50	-.55	-.58			-.12	-.09	-.06		
	45.0	-.58	-.62	-.64			-.11	-.09	-.06		
	50.0	-.61	-.65	-.68			-.10	-.08	-.06		
	60.0	-.66	-.73	-.73			-.06	-.04	-.03		
	70.0	-.70	-.74	-.70			.02	.04	.04		
	80.0	-.17	-.49	-.57			.08	.09	.07		
	90.0	.01	.03	-.18			.11	.12	.10		
	95.0	.07	.14	.01			.12	.15	.12		

TABLE XIV.- CONCLUDED
(b) Concluded

Spanwise station	Percent chord	Upper surface Angle of attack 3°	4°	5°			Lower surface Angle of attack 3°	4°	5°		
0.707 b/2	0	0.45	0.45	0.42			- - -	- - -	- - -		
	1.5	-.02	-.14	-.26			-0.17	-0.02	0.11		
	4.0	-.13	-.24	-.33			-.16	-.05	.04		
	7.0	-.21	-.31	-.39			-.15	-.07	.01		
	10.0	-.25	-.33	-.40			-.15	-.08	-.01		
	15.0	-.31	-.38	-.43			-.13	-.08	-.03		
	20.0	-.37	-.44	-.50			-.12	-.08	-.04		
	25.0	-.41	-.47	-.52			-.12	-.09	-.05		
	30.0	-.45	-.51	-.54			-.13	-.09	-.06		
	35.0	-.50	-.56	-.60			-.13	-.10	-.07		
	40.0	-.55	-.61	-.64			-.13	-.10	-.08		
	45.0	-.62	-.66	-.69			-.11	-.09	-.08		
	50.0	-.66	-.71	-.73			-.10	-.08	-.08		
	60.0	-.72	-.79	-.80			-.05	-.05	-.05		
	70.0	-.37	-.73	-.69			.04	.04	.02		
	80.0	-.08	-.17	-.34			.10	.10	.07		
	90.0	.06	.09	-.03			.13	.13	.11		
	95.0	.11	.15	.09			- - -	- - -	- - -		
0.831 b/2	0	.47	.47	.44			- - -	- - -	- - -		
	1.5	0	-.13	-.26			-.19	-.04	.09		
	4.0	-.12	-.23	-.35			-.18	-.07	.01		
	7.0	-.20	-.30	-.40			-.15	-.08	-.01		
	10.0	-.25	-.33	-.42			-.15	-.08	-.03		
	15.0	-.30	-.38	-.46			-.14	-.09	-.05		
	20.0	-.36	-.44	-.51			-.13	-.10	-.06		
	25.0	-.41	-.47	-.53			-.13	-.10	-.08		
	30.0	-.45	-.51	-.57			-.13	-.11	-.10		
	35.0	-.51	-.57	-.61			-.14	-.12	-.11		
	40.0	-.56	-.62	-.67			-.16	-.14	-.14		
	45.0	-.63	-.68	-.73			-.15	-.13	-.14		
	50.0	-.71	-.76	-.77			-.09	-.10	-.12		
	60.0	-.73	-.78	-.73			-.01	-.04	-.09		
	70.0	-.13	-.29	-.38			.04	.04	.01		
	80.0	.04	-.05	-.20			.11	.10	.07		
	90.0	.10	.09	-.04			.15	.13	.09		
	95.0	.14	.12	.02			.16	.14	.09		
0.924 b/2	0	.29	.38	.41			- - -	- - -	- - -		
	1.5	.01	-.13	-.27			-.24	-.08	.05		
	4.0	-.12	-.23	-.34			- - -	- - -	- - -		
	7.0	-.20	-.30	-.40			-.19	-.11	-.05		
	10.0	-.25	-.34	-.43			-.19	-.14	-.09		
	15.0	-.33	-.40	-.48			-.20	-.15	-.12		
	20.0	-.44	-.52	-.58			-.26	-.23	-.20		
	25.0	-.50	-.56	-.62			-.24	-.21	-.22		
	30.0	-.54	-.59	-.63			-.17	-.17	-.20		
	35.0	-.59	-.62	-.66			-.14	-.15	-.18		
	40.0	-.60	-.64	-.68			-.12	-.15	-.17		
	45.0	- - -	- - -	- - -			-.11	-.13	-.16		
	50.0	-.63	-.65	-.64			-.09	-.10	-.15		
	60.0	-.05	-.25	-.35			-.01	-.04	-.05		
	70.0	- - -	- - -	- - -			.06	.02	-.03		
	80.0	0	-.01	-.06			.11	.09	.04		
	90.0	.07	.05	-.01			.14	.11	.07		
	95.0	.12	.09	.02			.15	.12	.08		

TABLE XV.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.95; R, 4,000,000

(a) α_u, -2°, -1°, 0°, 1°, 2°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.086 b/2	0	0.44	0.49	0.52	0.55	0.57	- - -	- - -	- - -	- - -	- - -
	1.5	.42	.36	.34	.29	.24	-0.39	-0.25	-0.15	-0.08	0
	4.0	.28	.23	.20	.15	.12	-.16	-.11	-.07	-.03	.03
	7.0	.21	.16	.14	.10	.06	-.15	-.10	-.05	-.03	.02
	10.0	.16	.12	.10	.06	.02	-.16	-.11	-.06	-.04	.01
	15.0	.10	.07	.05	.01	-.02	-.14	-.09	-.07	-.03	.01
	20.0	.05	.02	0	-.04	-.06	-.14	-.12	-.07	-.04	-.01
	25.0	.02	-.01	-.03	-.08	-.10	-.18	-.14	-.10	-.08	-.04
	30.0	-.02	-.05	-.08	-.10	-.13	-.19	-.16	-.11	-.09	-.05
	35.0	-.06	-.09	-.11	-.14	-.17	-.21	-.17	-.13	-.11	-.08
	40.0	-.11	-.14	-.16	-.19	-.21	-.24	-.21	-.17	-.14	-.11
	45.0	-.15	-.19	-.20	-.24	-.26	-.26	-.23	-.19	-.16	-.13
	50.0	-.20	-.23	-.24	-.27	-.30	-.31	-.27	-.23	-.19	-.15
	60.0	-.26	-.29	-.31	-.34	-.36	-.30	-.25	-.20	-.15	-.11
	70.0	-.30	-.34	-.36	-.39	-.41	-.26	-.20	-.13	-.09	-.06
	80.0	-.35	-.40	-.42	-.44	-.47	-.14	-.08	-.03	-.01	0
	90.0	-.14	-.15	-.18	-.20	-.23	-.04	-.01	0	0	.01
	95.0	-.04	-.04	-.04	-.06	-.08	-.01	.01	.01	.01	.01
0.195 b/2	0	.29	.35	.44	.46	.49	- - -	- - -	- - -	- - -	- - -
	1.5	.39	.33	.30	.22	.15	-.64	-.42	-.28	-.20	-.09
	4.0	.25	.20	.18	.10	.05	-.30	-.22	-.21	-.12	-.06
	7.0	.18	.12	.10	.05	-.02	-.25	-.22	-.13	-.10	-.06
	10.0	.13	.08	.06	0	-.04	-.25	-.20	-.14	-.10	-.07
	15.0	.07	.02	0	-.05	-.09	-.22	-.18	-.12	-.10	-.07
	20.0	0	-.04	-.05	-.12	-.15	-.22	-.19	-.13	-.10	-.09
	25.0	-.03	-.07	-.09	-.13	-.18	-.23	-.20	-.15	-.11	-.10
	30.0	-.07	-.12	-.13	-.18	-.23	-.24	-.21	-.18	-.14	-.11
	35.0	-.12	-.16	-.17	-.21	-.25	-.27	-.24	-.19	-.15	-.13
	40.0	-.18	-.20	-.22	-.25	-.30	-.30	-.28	-.21	-.20	-.16
	45.0	-.21	-.25	-.27	-.31	-.35	-.32	-.28	-.23	-.20	-.16
	50.0	-.26	-.31	-.30	-.34	-.38	-.35	-.31	-.26	-.20	-.16
	60.0	-.32	-.35	-.37	-.42	-.44	-.31	-.26	-.18	-.11	-.11
	70.0	-.36	-.41	-.42	-.44	-.48	-.19	-.11	-.07	-.05	-.03
	80.0	-.36	-.41	-.45	-.49	-.54	-.05	-.02	0	.01	.02
	90.0	-.04	-.06	-.07	-.10	-.13	.01	.03	.05	.04	.02
	95.0	.02	.02	.01	0	-.02	.05	.04	.04	.05	.02
0.382 b/2	0	.16	.22	.32	.36	.42	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.31	.27	.20	.12	-.84	-.72	-.51	-.38	-.24
	4.0	.24	.16	.14	.08	0	-.71	-.50	-.35	-.27	-.16
	7.0	.15	.09	.05	-.01	-.08	-.61	-.39	-.27	-.22	-.16
	10.0	.10	.03	0	-.05	-.11	-.46	-.32	-.25	-.20	-.15
	15.0	.02	-.03	-.07	-.12	-.18	-.40	-.30	-.24	-.20	-.15
	20.0	-.04	-.09	-.12	-.18	-.24	-.38	-.30	-.24	-.20	-.16
	25.0	-.10	-.15	-.16	-.20	-.26	-.37	-.31	-.25	-.20	-.16
	30.0	-.14	-.20	-.20	-.25	-.30	-.37	-.32	-.25	-.20	-.17
	35.0	-.19	-.24	-.26	-.30	-.34	-.38	-.34	-.26	-.20	-.17
	40.0	-.24	-.29	-.31	-.34	-.39	-.41	-.35	-.28	-.19	-.17
	45.0	-.29	-.35	-.36	-.39	-.44	-.42	-.35	-.25	-.18	-.17
	50.0	-.33	-.40	-.40	-.44	-.50	-.43	-.30	-.21	-.17	-.15
	60.0	-.39	-.44	-.45	-.50	-.54	-.25	-.14	-.11	-.09	-.07
	70.0	-.42	-.48	-.50	-.53	-.58	-.09	-.05	-.09	-.04	-.03
	80.0	-.15	-.18	-.21	-.22	-.36	0	.07	.03	.04	.03
	90.0	-.01	.01	-.01	-.02	-.10	.06	.07	.07	.07	.05
	95.0	.06	.05	.06	.04	-.02	.09	.08	.09	.09	.06
0.555 b/2	0	.11	.18	.26	.33	.40	- - -	- - -	- - -	- - -	- - -
	1.5	.35	.29	.24	.17	.09	-.98	-.90	-.74	-.54	-.03
	4.0	.23	.18	.12	.06	-.01	-.98	-.84	-.56	-.42	-.24
	7.0	.14	.08	.03	-.03	-.09	-.82	-.63	-.38	-.28	-.21
	10.0	.08	.02	-.03	-.09	-.14	-.64	-.45	-.37	-.28	-.20
	15.0	0	-.05	-.10	-.15	-.20	-.58	-.42	-.33	-.25	-.18
	20.0	-.07	-.12	-.17	-.22	-.28	-.49	-.40	-.32	-.23	-.18
	25.0	-.12	-.16	-.20	-.25	-.30	-.49	-.40	-.32	-.22	-.17
	30.0	-.17	-.22	-.25	-.30	-.33	-.48	-.39	-.30	-.21	-.15
	35.0	-.22	-.27	-.31	-.35	-.38	-.48	-.38	-.25	-.20	-.16
	40.0	-.28	-.32	-.36	-.40	-.43	-.48	-.31	-.22	-.20	-.16
	45.0	-.33	-.38	-.42	-.46	-.50	-.42	-.24	-.20	-.19	-.14
	50.0	-.38	-.43	-.47	-.51	-.54	-.30	-.19	-.17	-.16	-.14
	60.0	-.42	-.48	-.52	-.56	-.60	-.14	-.09	-.09	-.09	-.08
	70.0	-.20	-.26	-.43	-.50	-.63	-.02	-.01	-.02	-.02	-.02
	80.0	-.12	-.10	-.09	-.10	-.15	.06	.06	.05	.05	.04
	90.0	.01	.02	.02	0	-.06	.10	.10	.09	.08	.06
	95.0	.07	.08	.07	.05	-.02	.12	.12	.11	.10	.06

NACA

TABLE XV.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.707 b/2	0	-0.01	0.08	0.18	0.29	0.39	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.31	.27	.20	.12	-1.14	-1.04	-0.91	-0.71	-0.44
	4.0	.24	.19	.14	.06	-.01	-1.18	-1.09	-.90	-.61	-.33
	7.0	.14	.09	.04	-.04	-.11	-1.05	-.88	-.66	-.38	-.27
	10.0	.08	.03	-.02	-.09	-.15	-1.04	-.70	-.45	-.33	-.24
	15.0	0	-.06	-.10	-.17	-.22	-.76	-.56	-.39	-.28	-.19
	20.0	-.07	-.12	-.17	-.23	-.28	-.63	-.46	-.30	-.25	-.18
	25.0	-.12	-.18	-.21	-.28	-.32	-.61	-.42	-.27	-.24	-.18
	30.0	-.19	-.24	-.28	-.33	-.37	-.54	-.31	-.24	-.23	-.18
	35.0	-.24	-.29	-.33	-.39	-.42	-.48	-.26	-.23	-.21	-.17
	40.0	-.29	-.34	-.38	-.44	-.47	-.30	-.22	-.22	-.20	-.18
	45.0	-.35	-.40	-.44	-.50	-.54	-.21	-.19	-.19	-.19	-.15
	50.0	-.39	-.45	-.50	-.55	-.58	-.14	-.15	-.16	-.15	-.14
	60.0	-.26	-.34	-.54	-.61	-.66	-.05	-.05	-.07	-.08	-.09
	70.0	-.28	-.25	-.21	-.21	-.22	.02	.03	.04	.02	0
	80.0	-.15	-.09	-.04	-.04	-.09	.09	.10	.10	.07	.07
	90.0	.05	.06	.08	.07	0	.13	.14	.14	.12	.10
	95.0	.10	.12	.12	.10	.03	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	.08	.18	.25	.34	.40	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.33	.28	.23	.14	-1.19	-1.15	-.95	-.73	-.51
	4.0	.24	.19	.13	.07	0	-1.22	-1.13	-.86	-.58	-.40
	7.0	.14	.10	.04	-.02	-.10	-1.19	-1.03	-.76	-.40	-.31
	10.0	.08	.04	-.02	-.08	-.15	-1.16	-.93	-.52	-.34	-.25
	15.0	-.01	-.05	-.11	-.16	-.22	-1.07	-.61	-.44	-.30	-.22
	20.0	-.07	-.12	-.18	-.23	-.29	-.89	-.40	-.34	-.26	-.22
	25.0	-.13	-.17	-.22	-.27	-.33	-.55	-.35	-.30	-.25	-.20
	30.0	-.19	-.24	-.28	-.33	-.38	-.37	-.27	-.28	-.24	-.20
	35.0	-.25	-.29	-.34	-.39	-.44	-.30	-.22	-.25	-.22	-.19
	40.0	-.30	-.36	-.41	-.45	-.49	-.24	-.19	-.24	-.22	-.21
	45.0	-.34	-.42	-.48	-.53	-.57	-.20	-.12	-.20	-.20	-.22
	50.0	-.38	-.47	-.57	-.60	-.64	-.14	-.08	-.09	-.09	-.14
	60.0	-.38	-.37	-.50	-.50	-.51	-.04	0	-.01	-.01	-.04
	70.0	-.18	-.08	-.07	-.07	-.13	.04	.07	.06	.05	.02
	80.0	-.05	-.02	0	0	-.05	.10	.13	.11	.11	.09
	90.0	.06	.08	.09	.09	.04	.13	.16	.15	.15	.12
	95.0	.11	.13	.13	.13	.07	.14	.16	.16	.16	.12
0.924 b/2	0	-.58	-.41	-.27	-.10	.09	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.34	.29	.23	.15	-1.10	-1.10	-.94	-.78	-.59
	4.0	.25	.20	.15	.08	0	- - -	- - -	- - -	- - -	- - -
	7.0	.15	.11	.05	-.01	-.09	-.99	-1.03	-.78	-.58	-.42
	10.0	.07	.03	-.02	-.08	-.15	-.94	-.95	-.60	-.39	-.28
	15.0	-.03	-.07	-.13	-.18	-.24	-.87	-.78	-.59	-.36	-.27
	20.0	-.14	-.20	-.25	-.30	-.36	-.76	-.64	-.46	-.36	-.32
	25.0	-.22	-.27	-.33	-.36	-.42	-.69	-.42	-.38	-.33	-.31
	30.0	-.32	-.37	-.43	-.47	-.51	-.58	-.21	-.24	-.20	-.25
	35.0	-.36	-.42	-.48	-.51	-.54	-.49	-.08	-.14	-.14	-.20
	40.0	-.40	-.45	-.53	-.54	-.57	-.39	-.06	-.11	-.11	-.15
	45.0	-.41	-.45	-.58	-.58	-.62	-.27	-.04	-.07	-.09	-.13
	50.0	-.40	-.26	-.34	-.35	-.55	-.19	-.01	-.04	-.06	-.10
	60.0	-.13	-.07	-.04	-.04	-.04	-.04	.05	.03	.02	-.02
	70.0	- - -	- - -	- - -	- - -	- - -	.04	.10	.08	.08	.06
	80.0	-.02	0	0	.01	.02	.10	.15	.14	.13	.10
	90.0	.08	.09	.10	.10	.09	.11	.16	.16	.16	.13
	95.0	.12	.14	.15	.15	.12	.14	.17	.17	.17	.14

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TABLE XV.- CONTINUED

(b) α_u, 3°, 4°, 5°, 6°, 7°

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.086 b/2	0	0.58	0.59	0.58	0.57	0.54	- - -	- - -	- - -	- - -	- - -
	1.5	.17	.14	.07	.01	-.06	0.08	0.17	0.21	0.28	0.32
	4.0	.07	.04	-.02	-.05	-.11	.08	.13	.17	.22	.26
	7.0	.02	0	-.05	-.08	-.13	.06	.12	.14	.19	.22
	10.0	-.01	-.04	-.08	-.10	-.15	.04	.10	.11	.16	.19
	15.0	-.05	-.07	-.11	-.14	-.17	.04	.09	.10	.15	.17
	20.0	-.10	-.12	-.16	-.18	-.21	.02	.06	.07	.12	.15
	25.0	-.13	-.14	-.18	-.20	-.23	-.01	.04	.05	.09	.11
	30.0	-.16	-.17	-.21	-.23	-.26	-.03	.02	.03	.07	.09
	35.0	-.20	-.20	-.24	-.26	-.30	-.04	0	.01	.05	.07
	40.0	-.25	-.25	-.30	-.31	-.34	-.08	-.02	-.01	.02	.05
	45.0	-.30	-.31	-.34	-.36	-.39	-.09	-.04	-.03	.01	.03
	50.0	-.33	-.34	-.39	-.40	-.43	-.11	-.06	-.05	-.01	.01
	60.0	-.39	-.40	-.44	-.45	-.49	-.08	-.04	-.03	0	.03
	70.0	-.45	-.45	-.49	-.50	-.53	-.04	0	0	.02	.04
	80.0	-.50	-.51	-.55	-.58	-.60	.02	.04	.04	.06	.07
	90.0	-.27	-.30	-.34	-.38	-.40	.02	.03	.02	.03	.03
	95.0	-.11	-.14	-.17	-.19	-.21	0	0	-.01	-.01	-.01
0.195 b/2	0	.50	.52	.50	.46	.41	- - -	- - -	- - -	- - -	- - -
	1.5	.07	.01	-.08	-.16	-.25	0	.10	.08	.23	.30
	4.0	0	-.05	-.12	-.20	-.26	0	.08	.11	.19	.24
	7.0	-.05	-.12	-.16	-.21	-.27	0	.05	.10	.12	.18
	10.0	-.11	-.12	-.18	-.22	-.27	-.01	.03	.07	.11	.15
	15.0	-.14	-.18	-.21	-.25	-.29	-.02	.02	.05	.08	.12
	20.0	-.19	-.22	-.25	-.29	-.33	-.04	0	.03	.06	.10
	25.0	-.21	-.24	-.29	-.30	-.34	-.06	-.02	.01	.04	.07
	30.0	-.25	-.28	-.31	-.34	-.36	-.08	-.04	-.01	.02	.05
	35.0	-.29	-.31	-.34	-.37	-.40	-.10	-.06	-.03	0	.03
	40.0	-.35	-.36	-.41	-.44	-.46	-.12	-.08	-.05	-.02	.01
	45.0	-.39	-.49	-.44	-.48	-.51	-.12	-.09	-.06	-.03	0
	50.0	-.41	-.45	-.47	-.50	-.53	-.12	-.10	-.07	-.04	-.01
	60.0	-.48	-.49	-.53	-.56	-.58	-.08	-.05	-.04	-.01	0
	70.0	-.52	-.54	-.58	-.60	-.63	-.03	-.01	-.01	.02	.02
	80.0	-.53	-.58	-.60	-.65	-.67	.03	.02	.04	.04	.04
	90.0	-.25	-.39	-.43	-.50	-.50	.04	.03	.02	0	.01
	95.0	-.01	-.03	-.06	-.08	-.10	.04	.03	.01	-.01	-.03
0.382 b/2	0	.47	.48	.45	.42	.35	- - -	- - -	- - -	- - -	- - -
	1.5	.05	-.05	-.15	-.27	-.40	-.08	.03	.13	.21	.28
	4.0	-.09	-.15	-.24	-.32	-.43	-.06	.01	.09	.15	.20
	7.0	-.14	-.22	-.28	-.36	-.45	-.08	-.02	.03	.10	.14
	10.0	-.18	-.22	-.28	-.35	-.42	-.08	-.03	.02	.07	.11
	15.0	-.23	-.28	-.32	-.38	-.45	-.09	-.04	0	.05	.09
	20.0	-.29	-.32	-.34	-.42	-.48	-.10	-.05	-.01	.02	.06
	25.0	-.31	-.36	-.39	-.44	-.49	-.10	-.07	-.03	0	.03
	30.0	-.35	-.39	-.43	-.48	-.51	-.11	-.08	-.04	-.01	.02
	35.0	-.39	-.43	-.46	-.50	-.55	-.12	-.09	-.06	-.03	.01
	40.0	-.43	-.46	-.51	-.54	-.58	-.13	-.10	-.08	-.04	-.01
	45.0	-.49	-.53	-.56	-.60	-.64	-.13	-.10	-.09	-.05	-.02
	50.0	-.52	-.56	-.60	-.64	-.69	-.12	-.10	-.09	-.06	-.03
	60.0	-.58	-.61	-.65	-.67	-.71	-.09	-.07	-.05	-.02	-.01
	70.0	-.61	-.65	-.65	-.68	-.72	0	-.02	-.03	-.01	0
	80.0	-.66	-.62	-.65	-.67	-.71	.06	.04	.03	.02	.03
	90.0	-.07	-.26	-.33	-.45	-.51	.06	.04	.03	.01	.01
	95.0	.01	-.04	-.25	-.34	-.38	.07	.04	.02	-.02	-.02
0.555 b/2	0	.45	.45	.42	.36	.27	- - -	- - -	- - -	- - -	- - -
	1.5	-.01	-.12	-.24	-.39	-.54	-.12	.01	.13	.21	.29
	4.0	-.09	-.19	-.28	-.39	-.51	-.12	-.03	.06	.13	.19
	7.0	-.17	-.24	-.33	-.42	-.52	-.12	-.05	.02	.08	.13
	10.0	-.20	-.27	-.34	-.42	-.50	-.12	-.06	0	.05	.10
	15.0	-.25	-.31	-.37	-.44	-.51	-.12	-.07	-.02	.03	.07
	20.0	-.32	-.38	-.43	-.50	-.57	-.12	-.08	-.03	.01	.04
	25.0	-.35	-.40	-.45	-.51	-.58	-.12	-.09	-.05	-.01	.02
	30.0	-.39	-.43	-.48	-.52	-.59	-.12	-.10	-.06	-.03	0
	35.0	-.43	-.48	-.53	-.57	-.62	-.13	-.10	-.07	-.04	-.01
	40.0	-.48	-.52	-.56	-.60	-.66	-.13	-.11	-.09	-.06	-.04
	45.0	-.45	-.59	-.62	-.65	-.70	-.13	-.11	-.09	-.07	-.05
	50.0	-.58	-.63	-.67	-.70	-.75	-.12	-.11	-.09	-.08	-.06
	60.0	-.64	-.69	-.72	-.76	-.81	-.08	-.07	-.06	-.05	-.04
	70.0	-.69	-.73	-.72	-.75	-.79	.01	0	-.04	-.04	-.03
	80.0	-.27	-.70	-.69	-.74	-.74	.07	.05	.02	-.02	-.02
	90.0	-.09	-.28	-.39	-.52	-.55	.09	.06	.03	-.05	-.07
	95.0	-.02	.02	-.10	-.34	-.38	.10	.08	.05	-.04	-.09

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TABLE XV.- CONCLUDED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°	6°	7°	Lower surface, Angle of attack 3°	4°	5°	6°	7°
0.707 b/2	0	0.44	0.44	0.44	0.36	0.26	- - -	- - -	- - -	- - -	- - -
	1.5	.01	-.10	-.24	-.38	-.58	-0.20	-0.06	0.08	0.18	0.26
	4.0	-.10	-.20	-.31	-.44	-.57	-.19	-.09	.01	.09	.15
	7.0	-.19	-.28	-.37	-.48	-.60	-.17	-.10	-.02	.04	.09
	10.0	-.23	-.30	-.39	-.48	-.59	-.17	-.11	-.04	.01	.06
	15.0	-.29	-.35	-.42	-.49	-.58	-.15	-.10	-.05	-.01	.03
	20.0	-.35	-.41	-.49	-.55	-.63	-.14	-.11	-.07	-.03	0
	25.0	-.39	-.44	-.51	-.58	-.65	-.14	-.12	-.08	-.05	-.02
	30.0	-.43	-.48	-.54	-.59	-.67	-.14	-.13	-.09	-.07	-.04
	35.0	-.48	-.53	-.58	-.63	-.69	-.14	-.13	-.10	-.09	-.06
	40.0	-.53	-.58	-.63	-.67	-.73	-.15	-.14	-.12	-.11	-.08
	45.0	-.59	-.63	-.68	-.72	-.78	-.14	-.13	-.12	-.12	-.09
	50.0	-.64	-.68	-.73	-.76	-.82	-.13	-.13	-.12	-.13	-.11
	60.0	-.70	-.75	-.80	-.83	-.84	-.08	-.11	-.11	-.13	-.12
	70.0	-.46	-.81	-.81	-.84	-.82	.01	-.03	-.10	-.14	-.15
	80.0	-.18	-.51	-.57	-.68	-.59	.07	.06	0	-.10	-.12
	90.0	-.07	-.14	-.29	-.51	-.44	.10	.09	.03	-.12	-.14
	95.0	-.02	-.03	-.02	-.29	-.45	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	.46	.46	.44	.38	.29	- - -	- - -	- - -	- - -	- - -
	1.5	.03	-.09	-.22	-.38	-.56	-.23	-.10	.05	.16	.24
	4.0	-.10	-.20	-.32	-.44	-.56	-.22	-.12	-.02	.05	.12
	7.0	-.19	-.28	-.37	-.49	-.60	-.19	-.12	-.04	.02	.07
	10.0	-.23	-.31	-.39	-.49	-.58	-.18	-.13	-.06	-.01	.03
	15.0	-.29	-.36	-.43	-.51	-.58	-.16	-.13	-.08	-.04	0
	20.0	-.35	-.42	-.49	-.56	-.62	-.16	-.14	-.09	-.06	-.03
	25.0	-.39	-.45	-.51	-.59	-.67	-.16	-.14	-.11	-.09	-.05
	30.0	-.44	-.49	-.55	-.61	-.69	-.16	-.15	-.12	-.11	-.08
	35.0	-.50	-.54	-.60	-.64	-.72	-.16	-.16	-.14	-.13	-.11
	40.0	-.54	-.59	-.64	-.68	-.75	-.18	-.19	-.18	-.17	-.15
	45.0	-.61	-.65	-.70	-.74	-.79	-.20	-.20	-.20	-.20	-.19
	50.0	-.69	-.73	-.77	-.80	-.85	-.16	-.19	-.22	-.25	-.23
	60.0	-.77	-.81	-.80	-.87	-.89	-.04	-.15	-.16	-.22	-.22
	70.0	-.18	-.55	-.61	-.82	-.81	.01	0	-.04	-.19	-.20
	80.0	-.03	-.26	-.40	-.72	-.61	.07	.05	.01	-.12	-.15
	90.0	.05	-.12	-.20	-.50	-.42	.10	.06	.03	-.16	-.20
	95.0	.07	-.06	-.13	-.29	-.30	.11	.04	.02	-.14	-.21
0.924 b/2	0	.26	.35	.40	.40	.38	- - -	- - -	- - -	- - -	- - -
	1.5	.03	-.09	-.22	-.38	-.55	-.29	-.15	0	.12	.19
	4.0	-.09	-.19	-.30	-.42	-.56	- - -	- - -	- - -	- - -	- - -
	7.0	-.18	-.27	-.36	-.47	-.60	-.23	-.16	-.08	-.03	.03
	10.0	-.23	-.31	-.40	-.50	-.59	-.22	-.18	-.11	-.06	-.01
	15.0	-.31	-.38	-.45	-.53	-.60	-.22	-.19	-.14	-.10	-.07
	20.0	-.42	-.49	-.55	-.60	-.67	-.28	-.26	-.23	-.20	-.17
	25.0	-.48	-.53	-.59	-.65	-.72	-.28	-.28	-.26	-.24	-.22
	30.0	-.54	-.58	-.61	-.65	-.72	-.25	-.27	-.27	-.28	-.27
	35.0	-.58	-.61	-.65	-.68	-.74	-.21	-.25	-.27	-.29	-.28
	40.0	-.60	-.64	-.67	-.69	-.75	-.14	-.23	-.26	-.31	-.30
	45.0	-.65	-.69	-.71	-.74	-.78	-.13	-.21	-.24	-.31	-.31
	50.0	-.64	-.70	-.72	-.77	-.80	-.12	-.20	-.22	-.30	-.31
	60.0	-.24	-.60	-.61	-.82	-.83	-.06	-.09	-.14	-.26	-.27
	70.0	- - -	- - -	- - -	- - -	- - -	.02	-.07	-.09	-.24	-.26
	80.0	.02	-.10	-.17	-.44	-.39	.09	0	-.04	-.19	-.22
	90.0	.08	-.02	-.09	-.35	-.30	.12	.05	0	-.18	-.22
	95.0	.10	.01	-.05	-.31	-.27	.13	.06	.02	-.17	-.21

TABLE XVI.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.96; R, 4,000,000

(a) α_u, -2°, -1°, 0°, 1°, 2°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.086 b/2	0	0.45	0.48	0.52	0.55	0.58	- - -	- - -	- - -	- - -	- - -
	1.5	.42	.39	.34	.29	.24	-0.38	-0.29	-0.19	-0.07	0.01
	4.0	.38	.25	.21	.16	.12	-.15	-.11	-.08	-.02	.04
	7.0	.21	.19	.15	.10	.07	-.15	-.10	-.07	-.02	.02
	10.0	.17	.14	.10	.06	.03	-.15	-.11	-.08	-.03	.01
	15.0	.11	.08	.05	.01	-.01	-.13	-.10	-.07	-.02	.01
	20.0	.06	.03	0	-.04	-.06	-.14	-.11	-.08	-.04	-.01
	25.0	.02	0	-.03	-.07	-.09	-.16	-.13	-.11	-.07	-.04
	30.0	-.01	-.04	-.06	-.10	-.13	-.18	-.15	-.13	-.08	-.05
	35.0	-.05	-.08	-.11	-.14	-.16	-.20	-.18	-.15	-.10	-.08
	40.0	-.10	-.13	-.15	-.19	-.21	-.24	-.20	-.18	-.14	-.11
	45.0	-.15	-.17	-.20	-.24	-.26	-.25	-.23	-.20	-.16	-.13
	50.0	-.19	-.20	-.23	-.27	-.29	-.30	-.27	-.25	-.19	-.15
	60.0	-.25	-.27	-.30	-.34	-.36	-.29	-.26	-.23	-.16	-.12
	70.0	-.30	-.32	-.35	-.39	-.42	-.28	-.24	-.18	-.10	-.07
	80.0	-.36	-.38	-.41	-.44	-.48	-.18	-.13	-.08	-.02	0
	90.0	-.21	-.22	-.22	-.22	-.26	-.10	-.07	-.04	0	.01
	95.0	-.10	-.09	-.09	-.08	-.10	-.06	-.04	-.03	0	0
0.195 b/2	0	.31	.36	.42	.47	.51	- - -	- - -	- - -	- - -	- - -
	1.5	.40	.35	.32	.24	.19	-.63	-.47	-.32	-.18	-.05
	4.0	.27	.22	.20	.12	.09	-.31	-.23	-.21	-.11	-.04
	7.0	.20	.15	.12	.06	.01	-.23	-.19	-.14	-.10	-.04
	10.0	.15	.11	.08	.01	-.02	-.24	-.19	-.14	-.11	-.04
	15.0	.07	.04	.02	-.04	-.06	-.20	-.18	-.12	-.09	-.04
	20.0	.02	-.02	-.04	-.10	-.12	-.20	-.19	-.13	-.11	-.05
	25.0	-.01	-.05	-.07	-.14	-.15	-.22	-.20	-.15	-.11	-.07
	30.0	-.06	-.10	-.11	-.17	-.18	-.23	-.21	-.17	-.13	-.09
	35.0	-.10	-.14	-.14	-.21	-.22	-.25	-.23	-.19	-.15	-.10
	40.0	-.15	-.19	-.20	-.25	-.27	-.29	-.27	-.22	-.19	-.14
	45.0	-.20	-.24	-.25	-.30	-.32	-.31	-.29	-.25	-.20	-.15
	50.0	-.24	-.27	-.29	-.34	-.34	-.34	-.31	-.26	-.21	-.15
	60.0	-.30	-.34	-.34	-.40	-.41	-.31	-.28	-.21	-.13	-.10
	70.0	-.34	-.38	-.39	-.45	-.45	-.23	-.19	-.11	-.05	-.02
	80.0	-.39	-.43	-.44	-.50	-.50	-.11	-.09	-.04	.01	.03
	90.0	-.12	-.11	-.10	-.10	-.12	-.04	-.03	.01	.02	.04
	95.0	-.04	-.04	-.02	-.02	-.02	-.02	-.02	.02	.03	.04
0.382 b/2	0	.17	.23	.29	.38	.43	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.34	.29	.20	.15	-.81	-.74	-.40	-.37	-.20
	4.0	.25	.20	.16	.07	.03	-.68	-.58	-.46	-.27	-.15
	7.0	.16	.11	.08	-.01	-.04	-.59	-.45	-.34	-.22	-.14
	10.0	.11	.07	.04	-.04	-.08	-.44	-.36	-.29	-.19	-.14
	15.0	.03	-.02	-.04	-.12	-.15	-.40	-.34	-.27	-.19	-.14
	20.0	-.03	-.08	-.10	-.18	-.21	-.36	-.32	-.26	-.20	-.15
	25.0	-.08	-.12	-.14	-.21	-.23	-.35	-.32	-.27	-.22	-.15
	30.0	-.13	-.17	-.19	-.25	-.27	-.36	-.33	-.29	-.22	-.16
	35.0	-.18	-.22	-.25	-.30	-.31	-.37	-.34	-.29	-.23	-.16
	40.0	-.23	-.26	-.28	-.34	-.35	-.40	-.38	-.32	-.22	-.16
	45.0	-.28	-.32	-.34	-.40	-.40	-.41	-.38	-.33	-.21	-.16
	50.0	-.33	-.36	-.39	-.44	-.45	-.43	-.39	-.31	-.18	-.15
	60.0	-.38	-.42	-.43	-.50	-.51	-.33	-.26	-.18	-.11	-.10
	70.0	-.43	-.46	-.48	-.54	-.54	-.18	-.14	-.08	-.05	-.03
	80.0	-.37	-.38	-.35	-.31	-.49	-.09	-.06	-.01	0	.03
	90.0	-.12	-.10	-.05	-.05	-.11	-.05	-.02	.02	.04	.05
	95.0	-.05	-.03	0	0	-.04	-.03	.01	.04	.06	.05
0.555 b/2	0	.12	.18	.25	.34	.39	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.31	.26	.17	.09	-.95	-.90	-.83	-.52	-.32
	4.0	.22	.19	.14	.06	-.01	-.98	-.89	-.70	-.42	-.25
	7.0	.13	.10	.05	-.03	-.09	-.80	-.69	-.47	-.28	-.22
	10.0	.07	.04	-.01	-.08	-.14	-.63	-.50	-.41	-.28	-.22
	15.0	-.01	-.03	-.08	-.14	-.20	-.58	-.45	-.37	-.25	-.20
	20.0	-.08	-.10	-.15	-.21	-.27	-.49	-.42	-.35	-.24	-.19
	25.0	-.12	-.14	-.19	-.24	-.30	-.49	-.42	-.35	-.23	-.18
	30.0	-.18	-.20	-.24	-.29	-.33	-.48	-.42	-.35	-.21	-.17
	35.0	-.22	-.26	-.30	-.34	-.38	-.48	-.43	-.35	-.20	-.18
	40.0	-.28	-.31	-.35	-.39	-.43	-.49	-.44	-.32	-.20	-.19
	45.0	-.33	-.36	-.40	-.45	-.49	-.49	-.43	-.27	-.19	-.17
	50.0	-.38	-.41	-.45	-.50	-.54	-.45	-.35	-.24	-.17	-.15
	60.0	-.44	-.47	-.51	-.55	-.59	-.29	-.21	-.14	-.10	-.10
	70.0	-.49	-.51	-.55	-.58	-.63	-.19	-.11	-.05	-.03	-.04
	80.0	-.30	-.23	-.15	-.12	-.21	-.10	-.03	.02	.04	.01
	90.0	-.12	-.04	-.01	-.01	-.11	-.04	.02	.06	.07	.03
	95.0	-.05	.01	.03	.02	-.08	-.02	.05	.07	.08	.03

NACA

TABLE XVI.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	-1°	0°	1°	2°	Lower surface, Angle of attack -2°	-1°	0°	1°	2°
0.707 b/2	0	-0.01	0.07	0.12	0.29	0.38	- - -	- - -	- - -	- - -	- - -
	1.5	.35	.32	.28	.20	.12	-1.08	-1.06	-1.01	-0.26	-0.48
	4.0	.22	.20	.15	.07	0	-1.12	-1.10	-1.01	-.62	-.37
	7.0	.13	.10	.05	-.03	-.10	-1.03	-.95	-.80	-.39	-.30
	10.0	.05	.05	-.01	-.08	-.14	-1.00	-.85	-.59	-.32	-.26
	15.0	-.01	-.04	-.09	-.15	-.22	-.74	-.63	-.49	-.28	-.22
	20.0	-.08	-.10	-.15	-.22	-.28	-.61	-.53	-.43	-.25	-.20
	25.0	-.13	-.17	-.21	-.26	-.32	-.60	-.53	-.42	-.24	-.20
	30.0	-.20	-.23	-.28	-.32	-.37	-.57	-.51	-.36	-.24	-.21
	35.0	-.25	-.29	-.33	-.37	-.42	-.57	-.51	-.33	-.23	-.20
	40.0	-.31	-.34	-.38	-.43	-.47	-.56	-.45	-.30	-.21	-.21
	45.0	-.37	-.40	-.44	-.49	-.53	-.51	-.38	-.25	-.19	-.19
	50.0	-.42	-.45	-.49	-.54	-.58	-.40	-.29	-.20	-.16	-.17
	60.0	-.47	-.51	-.55	-.60	-.56	-.29	-.18	-.12	-.09	-.12
	70.0	-.52	-.50	-.41	-.25	-.37	-.17	-.05	0	.01	-.05
	80.0	-.36	-.22	-.10	-.05	-.16	-.04	.04	.07	.08	.03
	90.0	-.17	-.02	.04	.05	-.08	-.01	.08	.11	.11	.06
	95.0	-.08	.03	.07	.07	-.06	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	.09	.15	.22	.34	.40	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.33	.30	.22	.15	-1.08	-1.10	-1.08	-.84	-.58
	4.0	.24	.20	.15	.08	.01	-1.16	-1.15	-1.10	-.74	-.45
	7.0	.14	.10	.06	-.02	-.09	-1.10	-1.09	-1.00	-.51	-.35
	10.0	.08	.04	0	-.08	-.14	-1.07	-1.06	-.89	-.36	-.26
	15.0	-.01	-.04	-.09	-.16	-.21	-1.01	-.86	-.68	-.33	-.24
	20.0	-.08	-.12	-.15	-.23	-.28	-.94	-.71	-.53	-.29	-.23
	25.0	-.13	-.17	-.20	-.27	-.31	-.65	-.58	-.46	-.28	-.23
	30.0	-.20	-.23	-.26	-.33	-.36	-.60	-.54	-.41	-.26	-.23
	35.0	-.26	-.29	-.33	-.39	-.43	-.57	-.50	-.37	-.25	-.22
	40.0	-.32	-.35	-.39	-.45	-.47	-.54	-.41	-.32	-.24	-.23
	45.0	-.39	-.42	-.45	-.53	-.55	-.45	-.34	-.28	-.23	-.24
	50.0	-.48	-.51	-.54	-.60	-.63	-.37	-.24	-.18	-.14	-.21
	60.0	-.56	-.59	-.63	-.68	-.65	-.16	-.08	-.04	-.04	-.09
	70.0	-.59	-.48	-.27	-.13	-.19	-.08	0	.02	.04	-.01
	80.0	-.39	-.16	-.06	-.01	-.12	-.04	.05	.09	.10	.05
	90.0	-.12	0	.05	.07	-.04	-.02	.08	.12	.13	.08
	95.0	-.04	.06	.10	.12	-.01	-.01	.07	.11	.14	.08
0.924 b/2	0	-.55	-.47	-.37	-.12	.07	- - -	- - -	- - -	- - -	- - -
	1.5	.35	.33	.30	.23	.16	-1.10	-1.12	-1.11	-.91	-.67
	4.0	.23	.20	.16	.08	.02	- - -	- - -	- - -	- - -	- - -
	7.0	.15	.11	.07	-.01	-.08	-1.13	-1.13	-1.07	-.67	-.61
	10.0	.07	.03	0	-.08	-.14	-1.12	-1.12	-1.03	-.44	-.30
	15.0	-.04	-.07	-.10	-.18	-.23	-1.07	-1.07	-.87	-.39	-.29
	20.0	-.15	-.19	-.22	-.30	-.34	-1.03	-1.00	-.73	-.39	-.34
	25.0	-.24	-.26	-.30	-.38	-.40	-.99	-.76	-.58	-.35	-.33
	30.0	-.35	-.38	-.40	-.48	-.51	-.86	-.56	-.40	-.27	-.28
	35.0	-.40	-.43	-.45	-.51	-.54	-.54	-.33	-.26	-.21	-.26
	40.0	-.48	-.50	-.52	-.56	-.57	-.44	-.24	-.19	-.15	-.23
	45.0	-.53	-.55	-.58	-.61	-.61	-.31	-.17	-.14	-.12	-.19
	50.0	-.59	-.61	-.61	-.59	-.60	-.25	-.13	-.10	-.09	-.14
	60.0	-.61	-.50	-.28	-.08	-.14	-.17	-.07	-.02	0	-.07
	70.0	-.53	-.24	-.10	-.01	-.03	-.12	.01	.06	.07	.02
	80.0	-.17	-.04	.01	.03	0	-.04	.07	.11	.13	.08
	90.0	-.04	.05	.08	.10	.06	.01	.10	.14	.15	.10
	95.0	-.02	.06	.11	.14	.07	.03	.11	.15	.16	.11

NACA

TABLE XVI.- CONTINUED

(b) α_u, 3°, 4°, 5°

Spanwise station	Percent chord	Upper surface, Angle of attack 3°	4°	5°			Lower surface, Angle of attack 3°	4°	5°		
0.086 b/2	0	0.59	0.59	0.59			- - -	- - -	- - -		
	1.5	.18	.13	.07			0.08	0.14	0.21		
	4.0	.07	.02	-.01			.08	.12	.18		
	7.0	.02	-.01	-.04			.06	.10	.15		
	10.0	-.01	-.04	-.08			.05	.08	.12		
	15.0	-.04	-.08	-.11			.04	.07	.11		
	20.0	-.09	-.13	-.15			.02	.05	.08		
	25.0	-.12	-.15	-.18			-.01	.02	.06		
	30.0	-.15	-.18	-.20			-.03	0	.04		
	35.0	-.19	-.21	-.24			-.04	-.02	.01		
	40.0	-.24	-.27	-.29			-.08	-.05	-.01		
	45.0	-.29	-.31	-.34			-.10	-.07	-.03		
	50.0	-.33	-.35	-.38			-.12	-.09	-.05		
	60.0	-.39	-.41	-.43			-.09	-.07	-.03		
	70.0	-.44	-.47	-.48			-.05	-.03	0		
	80.0	-.51	-.53	-.54			0	.01	.04		
	90.0	-.32	-.37	-.38			0	0	.02		
	95.0	-.14	-.17	-.18			-.02	-.02	-.01		
0.195 b/2	0	.52	.53	.51			- - -	- - -	- - -		
	1.5	.11	.05	-.04			.03	.12	.19		
	4.0	.01	-.03	-.09			.03	.08	.14		
	7.0	-.04	-.08	-.14			.02	.07	.11		
	10.0	-.06	-.10	-.16			0	.05	.08		
	15.0	-.11	-.14	-.19			-.01	.04	.07		
	20.0	-.16	-.20	-.23			-.03	.01	.04		
	25.0	-.19	-.21	-.25			-.04	-.01	.02		
	30.0	-.23	-.25	-.28			-.06	-.03	0		
	35.0	-.26	-.29	-.33			-.09	-.04	-.02		
	40.0	-.32	-.35	-.38			-.11	-.07	-.04		
	45.0	-.36	-.38	-.42			-.12	-.08	-.05		
	50.0	-.39	-.41	-.44			-.12	-.09	-.06		
	60.0	-.45	-.46	-.50			-.08	-.05	-.03		
	70.0	-.50	-.52	-.55			-.03	-.01	0		
	80.0	-.53	-.55	-.59			.02	.04	.05		
	90.0	-.36	-.43	-.46			.02	.03	.02		
	95.0	0	-.02	-.04			.02	.02	.01		
0.382 b/2	0	.47	.48	.46			- - -	- - -	- - -		
	1.5	.07	-.01	-.12			-.08	.04	.13		
	4.0	-.05	-.11	-.21			-.06	.01	.09		
	7.0	-.12	-.18	-.25			-.08	-.01	.04		
	10.0	-.14	-.19	-.26			-.08	-.03	.02		
	15.0	-.21	-.24	-.30			-.09	-.04	.01		
	20.0	-.26	-.30	-.35			-.10	-.05	-.01		
	25.0	-.29	-.32	-.37			-.11	-.06	-.03		
	30.0	-.33	-.35	-.40			-.12	-.08	-.04		
	35.0	-.37	-.40	-.44			-.13	-.09	-.05		
	40.0	-.41	-.44	-.48			-.14	-.10	-.07		
	45.0	-.47	-.49	-.54			-.14	-.11	-.08		
	50.0	-.50	-.52	-.57			-.14	-.11	-.08		
	60.0	-.56	-.59	-.63			-.10	-.08	-.04		
	70.0	-.59	-.63	-.64			-.01	-.04	-.03		
	80.0	-.64	-.62	-.62			.03	.03	.04		
	90.0	-.17	-.35	-.35			.02	.02	.02		
	95.0	-.09	-.08	-.29			.01	0	0		
0.555 b/2	0	.43	.45	.43			- - -	- - -	- - -		
	1.5	0	-.10	-.22			-.14	0	.12		
	4.0	-.09	-.17	-.26			-.12	-.03	.06		
	7.0	-.16	-.23	-.31			-.13	-.05	.02		
	10.0	-.20	-.26	-.32			-.14	-.08	0		
	15.0	-.25	-.29	-.35			-.13	-.08	-.02		
	20.0	-.32	-.36	-.42			-.13	-.09	-.03		
	25.0	-.34	-.39	-.44			-.14	-.10	-.05		
	30.0	-.38	-.42	-.46			-.14	-.11	-.06		
	35.0	-.43	-.46	-.51			-.15	-.12	-.08		
	40.0	-.47	-.50	-.54			-.16	-.13	-.09		
	45.0	-.53	-.57	-.60			-.16	-.13	-.10		
	50.0	-.57	-.60	-.65			-.15	-.13	-.10		
	60.0	-.63	-.66	-.70			-.11	-.09	-.07		
	70.0	-.67	-.71	-.74			-.03	-.05	-.05		
	80.0	-.49	-.73	-.70			.01	-.01	-.01		
	90.0	-.21	-.35	-.51			.01	-.01	-.02		
	95.0	-.15	-.15	-.20			.01	0	-.01		

NACA

TABLE XVI.- CONCLUDED
(b) Concluded

Spanwise station	Percent chord	Upper surface Angle of attack 3°	4°	5°			Lower surface Angle of attack 3°	4°	5°		
0.707 b/2	0	0.46	0.45	0.44			- - -	- - -	- - -		
	1.5	.03	-.08	-.21			-0.25	-0.08	0.07		
	4.0	-.09	-.18	-.28			-.22	-.10	0		
	7.0	-.18	-.26	-.34			-.20	-.11	-.03		
	10.0	-.21	-.29	-.36			-.19	-.12	-.04		
	15.0	-.28	-.33	-.40			-.18	-.12	-.05		
	20.0	-.34	-.40	-.46			-.17	-.13	-.07		
	25.0	-.38	-.43	-.49			-.17	-.14	-.09		
	30.0	-.42	-.46	-.51			-.18	-.14	-.10		
	35.0	-.47	-.51	-.56			-.18	-.15	-.11		
	40.0	-.51	-.55	-.60			-.19	-.17	-.13		
	45.0	-.57	-.60	-.65			-.18	-.16	-.13		
	50.0	-.62	-.65	-.70			-.17	-.16	-.14		
	60.0	-.69	-.73	-.78			-.14	-.14	-.13		
	70.0	-.69	-.78	-.83			-.10	-.14	-.14		
	80.0	-.27	-.84	-.82			-.01	-.05	-.06		
	90.0	-.21	-.37	-.47			.01	-.04	-.08		
	95.0	-.19	-.32	-.25			- - -	- - -	- - -		
0.831 b/2	0	.45	.46	.45			- - -	- - -	- - -		
	1.5	.05	-.06	-.21			-.34	-.14	.01		
	4.0	-.09	-.19	-.30			-.27	-.15	-.04		
	7.0	-.18	-.26	-.36			-.24	-.15	-.06		
	10.0	-.22	-.30	-.38			-.22	-.16	-.08		
	15.0	-.28	-.35	-.43			-.20	-.16	-.10		
	20.0	-.34	-.41	-.48			-.20	-.17	-.12		
	25.0	-.39	-.43	-.51			-.20	-.18	-.13		
	30.0	-.43	-.48	-.54			-.21	-.19	-.14		
	35.0	-.49	-.53	-.59			-.21	-.19	-.16		
	40.0	-.54	-.58	-.64			-.23	-.22	-.20		
	45.0	-.60	-.64	-.69			-.24	-.24	-.22		
	50.0	-.68	-.71	-.76			-.26	-.27	-.26		
	60.0	-.76	-.81	-.85			-.15	-.22	-.22		
	70.0	-.31	-.79	-.82			-.08	-.14	-.21		
	80.0	-.18	-.52	-.69			-.02	-.07	-.08		
	90.0	-.12	-.29	-.43			0	-.11	-.08		
	95.0	-.11	-.30	-.33			0	-.13	-.11		
0.924 b/2	0	.22	.32	.39			- - -	- - -	- - -		
	1.5	.06	-.05	-.20			-.43	-.22	-.03		
	4.0	-.08	-.17	-.29			- - -	- - -	- - -		
	7.0	-.16	-.25	-.35			-.30	-.20	-.10		
	10.0	-.22	-.29	-.38			-.27	-.20	-.13		
	15.0	-.30	-.36	-.44			-.26	-.22	-.15		
	20.0	-.41	-.46	-.54			-.31	-.28	-.24		
	25.0	-.47	-.52	-.58			-.32	-.30	-.27		
	30.0	-.54	-.57	-.61			-.30	-.30	-.28		
	35.0	-.58	-.61	-.64			-.29	-.30	-.29		
	40.0	-.60	-.65	-.67			-.29	-.31	-.31		
	45.0	-.65	-.68	-.71			-.26	-.30	-.30		
	50.0	-.68	-.71	-.75			-.21	-.29	-.29		
	60.0	-.51	-.76	-.81			-.16	-.26	-.25		
	70.0	-.14	-.74	-.81			-.10	-.18	-.18		
	80.0	-.05	-.29	-.42			-.01	-.14	-.14		
	90.0	-.01	-.23	-.36			.03	-.17	-.17		
	95.0	0	-.19	-.27			.05	-.15	-.15		

TABLE XVII.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_0, 0.25; R, 6,000,000

(a) α_u, -2°, 0°, 2°, 4°, 6°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.086 b/2	0	0.19	0.37	0.46	0.44	0.34	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.20	.08	-.09	-.26	-0.48	-0.23	-0.05	0.11	0.25
	4.0	.19	.08	-.02	-.14	-.26	-.27	-.13	-.02	.08	.08
	7.0	.13	.03	-.05	-.15	-.25	-.22	-.12	-.03	.05	.14
	10.0	.09	0	-.08	-.15	-.25	-.20	-.11	-.03	.04	.12
	15.0	.03	-.05	-.10	-.19	-.25	-.16	-.09	-.02	.04	.11
	20.0	-.01	-.08	-.13	-.20	-.26	-.15	-.09	-.03	.03	.09
	25.0	-.03	-.10	-.15	-.20	-.26	-.15	-.10	-.04	.01	.07
	30.0	-.07	-.14	-.19	-.24	-.30	-.14	-.09	-.04	.01	.06
	35.0	-.10	-.16	-.21	-.26	-.31	-.14	-.10	-.05	0	.05
	40.0	-.13	-.18	-.23	-.28	-.32	-.14	-.10	-.05	-.01	.04
	45.0	-.15	-.20	-.24	-.29	-.33	-.14	-.10	-.05	-.01	.03
	50.0	-.16	-.21	-.25	-.30	-.33	-.13	-.10	-.05	-.02	.02
	60.0	-.17	-.21	-.24	-.28	-.31	-.09	-.06	-.03	.01	.05
	70.0	-.15	-.18	-.21	-.24	-.26	-.04	-.02	.01	.03	.06
	80.0	-.12	-.14	-.15	-.17	-.19	.01	.03	.05	.06	.09
	90.0	-.02	-.04	-.04	-.05	-.05	.04	.05	.06	.06	.09
	95.0	.02	.01	.01	.01	.02	.05	.06	.07	.06	.10
0.195 b/2	0	.03	.30	.42	.39	.17	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.19	.02	-.18	-.42	-.64	-.30	-.06	.13	.28
	4.0	.20	.07	-.05	-.20	-.36	-.34	-.17	-.04	.09	.20
	7.0	.12	0	-.10	-.22	-.36	-.27	-.15	-.05	.05	.15
	10.0	.07	-.03	-.13	-.23	-.33	-.25	-.15	-.06	.03	.12
	15.0	0	-.07	-.16	-.25	-.32	-.20	-.12	-.05	.02	.10
	20.0	-.03	-.10	-.17	-.25	-.32	-.18	-.11	-.05	.01	.08
	25.0	-.05	-.13	-.18	-.25	-.32	-.18	-.11	-.06	0	.06
	30.0	-.10	-.15	-.20	-.27	-.32	-.16	-.11	-.06	0	.05
	35.0	-.12	-.17	-.22	-.28	-.33	-.15	-.10	-.05	-.01	.05
	40.0	-.13	-.19	-.24	-.28	-.32	-.15	-.10	-.06	-.01	.03
	45.0	-.15	-.21	-.25	-.29	-.32	-.14	-.10	-.05	-.01	.03
	50.0	-.18	-.23	-.27	-.32	-.35	-.12	-.09	-.05	-.02	.02
	60.0	-.18	-.22	-.25	-.30	-.31	-.07	-.09	-.01	.01	.05
	70.0	-.16	-.18	-.20	-.23	-.24	-.02	0	.02	.05	.07
	80.0	-.11	-.13	-.14	-.16	-.16	.03	.04	.06	.07	.10
	90.0	-.01	-.04	-.02	-.03	-.03	.05	.06	.08	.08	.10
	95.0	.04	.04	.04	.03	.03	.07	.07	.08	.08	.09
0.382 b/2	0	-.17	.25	.41	.37	.06	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.19	0	-.24	-.55	-.86	-.41	-.11	.13	.31
	4.0	.20	.06	-.08	-.27	-.48	-.44	-.24	-.06	.09	.22
	7.0	.10	-.02	-.15	-.29	-.45	-.36	-.20	-.07	.05	.16
	10.0	.07	-.04	-.15	-.28	-.40	-.30	-.18	-.07	.03	.13
	15.0	.02	-.10	-.18	-.28	-.37	-.24	-.15	-.06	.02	.10
	20.0	-.03	-.12	-.21	-.30	-.37	-.21	-.13	-.06	.01	.09
	25.0	-.07	-.14	-.22	-.29	-.36	-.19	-.12	-.06	0	.07
	30.0	-.10	-.15	-.22	-.29	-.35	-.17	-.11	-.06	0	.05
	35.0	-.12	-.18	-.25	-.30	-.35	-.16	-.11	-.05	0	.05
	40.0	-.15	-.21	-.25	-.32	-.35	-.15	-.11	-.06	-.02	.03
	45.0	-.17	-.22	-.27	-.32	-.35	-.14	-.10	-.05	-.01	.03
	50.0	-.18	-.23	-.27	-.32	-.36	-.12	-.09	-.05	-.02	.02
	60.0	-.17	-.22	-.24	-.28	-.30	-.06	-.04	-.01	.02	.05
	70.0	-.15	-.17	-.19	-.22	-.24	-.02	0	.03	.04	.07
	80.0	-.10	-.12	-.13	-.15	-.15	.04	.05	.07	.08	.10
	90.0	0	-.01	-.02	.09	-.02	.07	.09	.09	.09	.10
	95.0	.04	.04	.04	.04	.04	.08	.08	.09	.10	.10
0.555 b/2	0	-.29	.22	.41	.34	-.04	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.19	-.03	-.34	-.68	-.73	-.49	-.11	.15	.33
	4.0	.24	.08	-.08	-.29	-.53	-.51	-.28	-.08	.08	.22
	7.0	.15	0	-.12	-.29	-.46	-.40	-.23	-.09	.04	.16
	10.0	.10	-.03	-.15	-.29	-.41	-.34	-.21	-.09	.03	.13
	15.0	.04	-.08	-.16	-.29	-.40	-.26	-.17	-.07	.01	.10
	20.0	-.01	-.12	-.20	-.30	-.40	-.23	-.14	-.07	0	.08
	25.0	-.05	-.14	-.20	-.30	-.37	-.21	-.14	-.07	0	.06
	30.0	-.09	-.15	-.22	-.32	-.37	-.18	-.12	-.06	0	.05
	35.0	-.12	-.19	-.25	-.32	-.37	-.17	-.11	-.06	-.01	.04
	40.0	-.14	-.21	-.25	-.32	-.36	-.16	-.11	-.06	-.02	.03
	45.0	-.15	-.22	-.27	-.32	-.36	-.14	-.10	-.06	-.02	.02
	50.0	-.17	-.22	-.27	-.30	-.35	-.12	-.09	-.05	-.02	.02
	60.0	-.15	-.19	-.21	-.25	-.27	-.06	-.04	-.01	.01	.04
	70.0	-.14	-.17	-.19	-.22	-.23	-.01	0	.03	.04	.06
	80.0	-.09	-.11	-.13	-.15	-.15	.04	.05	.07	.08	.09
	90.0	-.01	-.01	-.02	-.02	-.02	.07	.08	.09	.09	.10
	95.0	.05	.05	.05	.04	.04	.09	.10	.10	.10	.11

TABLE XVII.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.707 b/2	0	-0.14	0.10	0.42	0.41	-0.02	- - -	- - -	- - -	- - -	- - -
	1.5	.41	.27	.07	-.23	-.60	-1.06	-0.60	-0.20	0.10	0.31
	4.0	.29	.15	-.03	-.25	-.50	-.64	-.34	-.14	.05	.21
	7.0	.18	.05	-.10	-.27	-.45	-.47	-.27	-.12	.02	.15
	10.0	.13	0	-.13	-.28	-.42	-.39	-.23	-.10	.01	.12
	15.0	.05	-.07	-.16	-.29	-.40	-.30	-.18	-.08	0	.09
	20.0	0	-.10	-.20	-.30	-.38	-.24	-.16	-.07	-.01	.07
	25.0	-.05	-.14	-.21	-.30	-.38	-.22	-.14	-.08	-.02	.05
	30.0	-.09	-.15	-.22	-.32	-.37	-.20	-.13	-.07	-.03	.04
	35.0	-.10	-.17	-.24	-.32	-.36	-.18	-.12	-.07	-.03	.03
	40.0	-.13	-.18	-.24	-.30	-.35	-.16	-.11	-.07	-.04	.01
	45.0	-.15	-.21	-.26	-.32	-.38	-.05	-.10	-.06	-.03	.01
	50.0	-.17	-.22	-.26	-.32	-.36	-.11	-.08	-.05	-.03	.01
	60.0	-.17	-.20	-.23	-.27	-.30	-.05	-.03	-.01	.01	.03
	70.0	-.14	-.16	-.18	-.21	-.23	0	.02	.03	.04	.05
	80.0	-.09	-.11	-.12	-.14	-.15	.05	.06	.07	.07	.08
	90.0	0	-.01	-.01	-.02	-.02	.08	.09	.09	.09	.09
	95.0	.05	.05	.05	.04	.04	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.54	.30	.56	.48	.12	- - -	- - -	- - -	- - -	- - -
	1.5	.41	.30	.10	-.17	-.54	-1.10	-.70	-.27	.05	.29
	4.0	.28	.13	-.03	-.23	-.47	-.66	-.39	-.17	.01	.18
	7.0	.17	.05	-.10	-.25	-.45	-.51	-.29	-.15	-.01	.13
	10.0	.10	0	-.12	-.27	-.41	-.41	-.24	-.12	-.02	.09
	15.0	.05	-.08	-.15	-.28	-.40	-.32	-.20	-.11	-.03	.06
	20.0	0	-.10	-.21	-.29	-.38	-.25	-.17	-.09	-.03	.04
	25.0	-.05	-.14	-.21	-.29	-.37	-.23	-.16	-.09	-.04	.02
	30.0	-.09	-.15	-.22	-.29	-.36	-.19	-.14	-.08	-.04	.01
	35.0	-.10	-.15	-.24	-.30	-.35	-.18	-.13	-.08	-.05	0
	40.0	-.14	-.18	-.24	-.31	-.36	-.14	-.11	-.07	-.05	-.01
	45.0	-.15	-.20	-.23	-.31	-.35	-.13	-.10	-.07	-.05	-.02
	50.0	-.17	-.21	-.25	-.30	-.34	-.10	-.07	-.05	-.04	-.01
	60.0	-.15	-.19	-.22	-.25	-.28	-.04	-.03	-.01	0	.01
	70.0	-.13	-.15	-.17	-.19	-.21	.01	.02	.03	.03	.03
	80.0	-.09	-.10	-.11	-.13	-.14	.07	.07	.08	.07	.07
	90.0	0	0	-.01	-.01	-.02	.09	.09	.09	.09	.08
	95.0	.05	.05	.05	.05	.04	- - -	- - -	- - -	- - -	- - -
0.924 b/2	0	-1.72	-.56	.10	.37	.36	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.27	.10	-.14	-.47	-1.22	-.82	-.35	0	.26
	4.0	.25	.13	-.01	-.20	-.40	- - -	- - -	- - -	- - -	- - -
	7.0	.15	.05	-.08	-.24	-.38	-.51	-.32	-.18	-.05	.07
	10.0	.11	0	-.11	-.25	-.37	-.41	-.27	-.15	-.06	.04
	15.0	0	-.09	-.15	-.25	-.35	-.30	-.20	-.13	-.06	.01
	20.0	-.03	-.10	-.17	-.25	-.30	-.22	-.16	-.11	-.06	-.02
	25.0	-.05	-.14	-.18	-.25	-.30	-.19	-.13	-.09	-.06	-.03
	30.0	-.10	-.15	-.20	-.25	-.30	-.15	-.12	-.08	-.06	-.04
	35.0	-.12	-.15	-.20	-.25	-.28	-.14	-.10	-.08	-.06	-.04
	40.0	-.14	-.18	-.21	-.27	-.30	-.12	-.09	-.07	-.06	-.05
	45.0	-.15	-.19	-.22	-.26	-.30	-.10	-.08	-.06	-.06	-.05
	50.0	-.15	-.18	-.20	-.24	-.28	-.07	-.06	-.05	-.05	-.04
	60.0	-.14	-.16	-.18	-.21	-.23	-.03	-.02	-.01	-.02	-.02
	70.0	-.11	-.12	-.13	-.15	-.18	.02	.03	.03	.01	-.01
	80.0	-.07	-.08	-.08	-.11	-.13	.06	.08	.07	.06	.04
	90.0	0	.01	.01	-.02	-.05	.09	.10	.09	.07	.05
	95.0	.06	.06	.06	.04	.01	.10	.11	.11	.08	.06

TABLE XVII.- CONTINUED

(b) α_u, 8°, 10°, 12°, 14°, 16°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.086 b/2	0	0.10	-0.26	-0.73	-1.22	-2.03	- - -	- - -	- - -	- - -	- - -
	1.5	-.48	-.72	-.89	-1.19	-1.49	0.36	0.44	0.49	0.52	0.52
	4.0	-.41	-.55	-.70	-.85	-1.02	.27	.36	.41	.48	.52
	7.0	-.35	-.45	-.54	-.67	-.79	.22	.29	.35	.42	.47
	10.0	-.33	-.43	-.51	-.61	-.70	.19	.26	.32	.38	.43
	15.0	-.33	-.40	-.47	-.53	-.61	.17	.23	.28	.34	.39
	20.0	-.33	-.40	-.46	-.51	-.57	.15	.20	.25	.31	.36
	25.0	-.33	-.37	-.42	-.48	-.52	.12	.18	.23	.28	.33
	30.0	-.36	-.41	-.46	-.51	-.56	.11	.17	.21	.27	.31
	35.0	-.37	-.41	-.46	-.50	-.54	.10	.15	.19	.24	.28
	40.0	-.38	-.42	-.46	-.50	-.54	.08	.13	.18	.22	.27
	45.0	-.38	-.42	-.46	-.48	-.52	.07	.12	.16	.21	.25
	50.0	-.37	-.41	-.44	-.47	-.50	.07	.11	.15	.19	.23
	60.0	-.34	-.37	-.39	-.41	-.43	.08	.12	.15	.19	.22
	70.0	-.28	-.30	-.32	-.33	-.34	.09	.12	.15	.19	.22
	80.0	-.20	-.21	-.22	-.22	-.23	.11	.14	.17	.19	.22
	90.0	-.06	-.06	-.07	-.06	-.06	.10	.12	.14	.17	.19
	95.0	0	.01	.01	.02	.02	.09	.11	.12	.14	.16
0.195 b/2	0	-.25	-.86	-1.65	-2.64	-3.80	- - -	- - -	- - -	- - -	- - -
	1.5	-.73	-.91	-1.31	-1.71	-2.12	.39	.46	.49	.48	.43
	4.0	-.54	-.75	-.97	-1.18	-1.41	.30	.38	.45	.50	.53
	7.0	-.48	-.63	-.78	-.93	-1.08	.24	.32	.39	.45	.49
	10.0	-.46	-.57	-.69	-.81	-.93	.20	.27	.34	.40	.45
	15.0	-.42	-.50	-.61	-.68	-.79	.17	.23	.29	.39	.42
	20.0	-.41	-.48	-.56	-.63	-.71	.14	.20	.26	.32	.37
	25.0	-.39	-.45	-.51	-.57	-.63	.12	.17	.23	.29	.33
	30.0	-.38	-.43	-.49	-.56	-.59	.11	.16	.21	.27	.31
	35.0	-.38	-.42	-.46	-.51	-.56	.09	.14	.19	.24	.29
	40.0	-.37	-.42	-.46	-.49	-.51	.08	.13	.17	.22	.27
	45.0	-.35	-.40	-.43	-.46	-.49	.07	.12	.16	.21	.25
	50.0	-.39	-.42	-.45	-.48	-.52	.07	.11	.15	.19	.23
	60.0	-.34	-.36	-.38	-.29	-.42	.08	.12	.15	.19	.22
	70.0	-.26	-.28	-.29	-.30	-.31	.10	.13	.16	.19	.22
	80.0	-.17	-.18	-.18	-.18	-.19	.12	.14	.16	.19	.21
	90.0	-.03	-.03	-.03	-.03	-.04	.11	.12	.15	.16	.18
	95.0	.03	.03	.03	.03	.03	.10	.11	.12	.15	.15
0.382 b/2	0	-.54	-1.39	-2.49	-3.88	-4.50	- - -	- - -	- - -	- - -	- - -
	1.5	-.73	-1.18	-1.68	-2.18	-3.71	.40	.44	.40	.32	.17
	4.0	-.73	-.97	-1.27	-1.56	-1.42	.33	.40	.45	.47	.47
	7.0	-.63	-.81	-1.02	-1.22	-1.87	.25	.33	.40	.45	.48
	10.0	-.56	-.70	-.86	-1.01	-1.18	.22	.29	.37	.41	.46
	15.0	-.51	-.60	-.73	-.85	-.97	.18	.24	.32	.36	.41
	20.0	-.48	-.58	-.66	-.76	-.86	.15	.21	.28	.32	.37
	25.0	-.46	-.52	-.61	-.68	-.76	.13	.18	.25	.29	.34
	30.0	-.43	-.49	-.56	-.62	-.69	.11	.16	.22	.26	.31
	35.0	-.42	-.48	-.52	-.58	-.62	.10	.14	.20	.24	.29
	40.0	-.41	-.46	-.51	-.56	-.59	.08	.12	.18	.21	.27
	45.0	-.41	-.44	-.47	-.51	-.54	.07	.11	.17	.20	.25
	50.0	-.40	-.44	-.47	-.50	-.52	.06	.10	.15	.19	.23
	60.0	-.33	-.36	-.38	-.39	-.41	.07	.11	.15	.19	.22
	70.0	-.25	-.26	-.27	-.27	-.28	.09	.11	.15	.17	.20
	80.0	-.16	-.16	-.15	-.15	-.15	.12	.13	.16	.18	.20
	90.0	-.02	-.02	-.02	-.02	-.04	.11	.12	.14	.15	.16
	95.0	.04	.04	.03	.02	-.01	.10	.11	.12	.12	.13
0.555 b/2	0	-.79	-1.84	-3.27	-4.92	-5.84	- - -	- - -	- - -	- - -	- - -
	1.5	-1.17	-1.78	-2.38	-2.97	-3.51	.42	.43	.37	.23	.03
	4.0	-.80	-1.09	-1.42	-1.75	-2.09	.33	.40	.45	.47	.45
	7.0	-.68	-.89	-1.12	-1.35	-1.59	.26	.34	.42	.45	.48
	10.0	-.61	-.77	-.95	-1.13	-1.34	.22	.30	.37	.42	.46
	15.0	-.53	-.65	-.80	-.93	-1.09	.18	.24	.32	.37	.41
	20.0	-.51	-.62	-.73	-.81	-.93	.15	.21	.28	.33	.38
	25.0	-.47	-.55	-.64	-.72	-.81	.12	.18	.24	.29	.34
	30.0	-.46	-.53	-.61	-.67	-.75	.11	.16	.22	.27	.31
	35.0	-.44	-.50	-.56	-.61	-.66	.09	.14	.19	.24	.28
	40.0	-.43	-.49	-.52	-.57	-.61	.07	.11	.17	.21	.25
	45.0	-.41	-.45	-.49	-.53	-.56	.06	.10	.16	.19	.23
	50.0	-.39	-.42	-.46	-.46	-.49	.05	.09	.15	.17	.20
	60.0	-.30	-.32	-.34	-.34	-.34	.07	.10	.14	.16	.19
	70.0	-.25	-.26	-.25	-.24	-.14	.08	.10	.14	.15	.17
	80.0	-.16	-.15	-.13	-.12	-.13	.08	.12	.15	.15	.16
	90.0	-.02	-.02	-.01	-.02	-.05	.10	.10	.13	.12	.12
	95.0	.04	.03	.03	.01	-.03	.10	.11	.13	.11	.10

TABLE XVII.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.707 b/2	0	-0.86	-2.07	-3.66	-5.64	-7.87	- - -	- - -	- - -	- - -	- - -
	1.5	-.93	-1.52	-2.07	-1.69	-3.29	0.41	0.43	0.36	0.18	-0.05
	4.0	-.80	-1.11	-1.45	-1.81	-2.19	.32	.40	.44	.44	.41
	7.0	-.69	-.91	-1.17	-1.41	-1.68	.25	.34	.42	.44	.46
	10.0	-.61	-.79	-.97	-1.17	-1.40	.21	.29	.35	.40	.44
	15.0	-.56	-.68	-.81	-.96	-1.12	.16	.24	.29	.35	.39
	20.0	-.51	-.60	-.74	-.84	-.94	.14	.20	.25	.30	.34
	25.0	-.48	-.57	-.66	-.76	-.83	.11	.16	.21	.26	.30
	30.0	-.46	-.54	-.61	-.68	-.75	.08	.13	.18	.22	.27
	35.0	-.44	-.52	-.56	-.62	-.66	.07	.12	.15	.20	.23
	40.0	-.41	-.45	-.51	-.56	-.59	.05	.09	.13	.17	.20
	45.0	-.43	-.48	-.52	-.55	-.57	.04	.08	.11	.15	.18
	50.0	-.41	-.44	-.48	-.50	-.50	.04	.07	.10	.13	.15
	60.0	-.33	-.35	-.37	-.37	-.35	.04	.07	.09	.11	.13
	70.0	-.25	-.25	-.26	-.24	-.22	.06	.07	.08	.09	.11
	80.0	-.15	-.15	-.14	-.12	-.21	.08	.09	.09	.09	.09
	90.0	-.02	-.02	-.02	-.03	-.07	.09	.09	.08	.07	.06
	95.0	.04	.03	.02	-.01	-.05	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.76	-2.01	-3.63	-5.64	-7.89	- - -	- - -	- - -	- - -	- - -
	1.5	-.91	-1.38	-1.96	-2.59	-3.19	.41	.41	.36	.17	-.05
	4.0	-.76	-1.06	-1.40	-1.75	-2.09	.30	.38	.42	.43	.40
	7.0	-.66	-.88	-1.12	-1.37	-1.59	.23	.31	.37	.41	.43
	10.0	-.61	-.77	-.97	-1.15	-1.34	.19	.27	.33	.38	.41
	15.0	-.52	-.65	-.80	-.93	-1.07	.14	.20	.26	.31	.35
	20.0	-.51	-.60	-.71	-.81	-.91	.10	.16	.21	.26	.30
	25.0	-.46	-.55	-.64	-.72	-.80	.08	.13	.17	.22	.25
	30.0	-.43	-.60	-.58	-.66	-.71	.05	.09	.13	.17	.20
	35.0	-.42	-.49	-.54	-.59	-.62	.03	.07	.10	.14	.17
	40.0	-.42	-.48	-.52	-.56	-.59	.02	.05	.08	.11	.13
	45.0	-.41	-.45	-.49	-.52	-.53	.01	.03	.06	.09	.11
	50.0	-.38	-.36	-.45	-.47	-.46	.01	.03	.05	.07	.08
	60.0	-.31	-.33	-.35	-.35	-.34	.01	.03	.04	.05	.06
	70.0	-.23	-.25	-.25	-.24	-.22	.03	.04	.04	.04	.04
	80.0	-.15	-.16	-.15	-.14	-.14	.06	.06	.05	.05	.04
	90.0	-.03	-.03	-.04	-.06	-.11	.06	.06	.04	.03	.01
	95.0	.03	.02	0	-.04	-.10	- - -	- - -	- - -	- - -	- - -
0.924 b/2	0	-.03	-.81	-1.93	-3.37	-4.99	- - -	- - -	- - -	- - -	- - -
	1.5	-1.04	-1.26	-1.83	-2.36	-2.98	.38	.41	.36	.21	0
	4.0	-.66	-.93	-1.24	-1.97	-1.85	- - -	- - -	- - -	- - -	- - -
	7.0	-.58	-.77	-.99	-1.20	-1.42	.16	.25	.31	.38	.38
	10.0	-.51	-.65	-.84	-1.01	-1.17	.11	.19	.24	.29	.32
	15.0	-.46	-.58	-.69	-.81	-.91	.06	.12	.16	.20	.24
	20.0	-.41	-.50	-.58	-.66	-.76	.02	.06	.09	.12	.14
	25.0	-.39	-.45	-.53	-.61	-.66	.01	.03	.06	.08	.11
	30.0	-.38	-.43	-.51	-.56	-.61	-.02	0	.01	.03	.04
	35.0	-.35	-.40	-.46	-.51	-.56	-.03	-.01	0	.01	.02
	40.0	-.37	-.42	-.48	-.53	-.57	-.03	-.04	-.03	-.03	-.02
	45.0	-.36	-.41	-.46	-.50	-.53	-.03	-.04	-.04	-.03	-.03
	50.0	-.33	-.38	-.43	-.47	-.49	-.05	-.05	-.05	-.06	-.06
	60.0	-.27	-.32	-.36	-.39	-.39	-.03	-.04	-.05	-.06	-.06
	70.0	-.22	-.26	-.31	-.33	-.26	-.03	-.04	-.06	-.07	-.08
	80.0	-.16	-.21	-.24	-.25	-.28	.01	-.04	-.03	-.05	-.08
	90.0	-.10	-.14	-.18	-.23	-.37	.01	-.01	-.03	-.06	-.08
	95.0	-.03	-.07	-.11	-.19	-.34	.03	0	-.03	-.07	-.11

TABLE XVII.- CONTINUED

(c) α_u, 18°, 20°, 22°, 24°, 26°

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	26°	Lower surface, Angle of attack 18°	20°	22°	24°	26°
0.086 b/2	0	-2.95	-3.95	-5.02	-6.13	-7.04	- - -	- - -	- - -	- - -	- - -
	1.5	-1.85	-1.22	-2.56	-2.87	-3.09	0.49	0.45	0.37	0.31	0.25
	4.0	-1.22	-1.42	-1.61	-2.28	-1.86	.55	.57	.60	.63	.64
	7.0	-.93	-1.08	-1.18	-1.32	-1.37	.52	.55	.60	.64	.67
	10.0	-.81	-.92	-1.03	-1.13	-1.21	.48	.52	.51	.62	.66
	15.0	-.71	-.89	-.86	-.96	-1.10	.44	.48	.53	.58	.61
	20.0	-.66	-.73	-.80	-.95	-1.11	.41	.46	.50	.55	.58
	25.0	-.59	-.67	-.74	-.88	-1.01	.38	.41	.46	.51	.54
	30.0	-.62	-.68	-.75	-.92	-1.04	.36	.40	.44	.48	.51
	35.0	-.60	-.66	-.73	-.89	-1.00	.33	.37	.41	.45	.48
	40.0	-.59	-.65	-.73	-.89	-.98	.31	.35	.39	.42	.45
	45.0	-.58	-.63	-.72	-.86	-.96	.29	.33	.36	.40	.42
	50.0	-.55	-.60	-.70	-.84	-.93	.28	.30	.34	.37	.40
	60.0	-.48	-.54	-.64	-.87	-.87	.26	.29	.32	.34	.36
	70.0	-.38	-.44	-.54	-.66	-.77	.25	.27	.29	.31	.32
	80.0	-.25	-.31	-.40	-.50	-.63	.25	.26	.27	.29	.29
	90.0	-.09	-.13	-.20	-.29	-.40	.20	.20	.21	.21	.19
	95.0	.01	-.03	-.09	-.15	-.26	.17	.17	.16	.15	.12
0.195 b/2	0	-5.19	-6.97	-8.19	-8.33	-3.21	- - -	- - -	- - -	- - -	- - -
	1.5	-2.66	-3.21	-3.66	-3.32	-2.38	.33	.10	.08	.12	.28
	4.0	-1.69	-1.97	-2.23	-2.87	-2.28	.60	.54	.54	.64	.66
	7.0	-1.28	-1.49	-1.67	-2.51	-2.11	.59	.57	.61	.67	.70
	10.0	-1.10	-1.27	-1.39	-2.23	-1.95	.51	.55	.60	.65	.68
	15.0	-.91	-1.04	-1.15	-1.80	-1.79	.46	.51	.56	.61	.63
	20.0	-.81	-.92	-1.03	-1.54	-1.60	.43	.48	.53	.56	.59
	25.0	-.71	-.82	-.93	-1.26	-1.45	.39	.44	.49	.52	.55
	30.0	-.67	-.77	-.91	-1.16	-1.35	.36	.41	.46	.48	.51
	35.0	-.63	-.72	-.86	-1.01	-1.23	.34	.38	.43	.45	.48
	40.0	-.61	-.69	-.82	-.95	-1.16	.31	.35	.39	.41	.44
	45.0	-.56	-.65	-.79	-.86	-1.06	.30	.33	.37	.39	.41
	50.0	-.57	-.67	-.80	-.86	-1.06	.28	.31	.34	.35	.37
	60.0	-.47	-.57	-.69	-.75	-.92	.26	.28	.31	.32	.33
	70.0	-.36	-.44	-.55	-.63	-.81	.25	.26	.28	.28	.29
	80.0	-.22	-.30	-.39	-.48	-.65	.24	.24	.25	.25	.24
	90.0	-.06	-.13	-.20	-.30	-.48	.19	.18	.18	.16	.13
	95.0	0	-.05	-.12	-.22	-.38	.15	.14	.12	.08	.03
0.382 b/2	0	-6.63	-9.56	-5.73	-1.77	-1.44	- - -	- - -	- - -	- - -	- - -
	1.5	-3.34	-3.84	-2.05	-1.55	-1.35	-.05	-.23	-.05	.21	.21
	4.0	-2.25	-2.56	-1.98	-1.47	-1.30	.45	.45	.51	.55	.55
	7.0	-1.71	-2.03	-1.98	-1.47	-1.30	.51	.55	.59	.60	.60
	10.0	-1.44	-1.84	-1.85	-1.42	-1.26	.50	.56	.59	.59	.60
	15.0	-1.17	-1.50	-1.80	-1.42	-1.26	.46	.52	.55	.55	.57
	20.0	-1.01	-1.25	-1.69	-1.34	-1.25	.43	.47	.50	.51	.53
	25.0	-.89	-1.10	-1.58	-1.34	-1.25	.39	.44	.46	.47	.49
	30.0	-.80	-1.00	-1.44	-1.26	-1.16	.36	.40	.42	.43	.45
	35.0	-.72	-.92	-1.35	-1.25	-1.15	.33	.37	.39	.40	.42
	40.0	-.67	-.86	-1.28	-1.21	-1.13	.30	.33	.35	.36	.37
	45.0	-.61	-.77	-1.18	-1.16	-1.11	.28	.30	.32	.33	.35
	50.0	-.59	-.75	-1.13	-1.15	-1.10	.25	.27	.29	.30	.31
	60.0	-.47	-.61	-.93	-1.04	-1.04	.24	.25	.26	.25	.26
	70.0	-.34	-.46	-.76	-.93	-.96	.21	.31	.21	.20	.19
	80.0	-.22	-.32	-.56	-.79	-.86	.20	.29	.18	.16	.13
	90.0	-.11	-.21	-.40	-.65	-.75	.14	.12	.20	.03	-.01
	95.0	-.08	-.18	-.32	-.58	-.70	.10	.07	.02	-.08	-.15
0.555 b/2	0	-6.90	-3.53	-1.97	-1.30	-1.19	- - -	- - -	- - -	- - -	- - -
	1.5	-3.86	-2.05	-1.46	-1.15	-1.10	-.09	.12	.20	.22	.20
	4.0	-2.86	-2.56	-1.26	-1.09	-1.04	.44	.52	.52	.51	.51
	7.0	-2.62	-2.54	-1.26	-1.06	-1.03	.50	.55	.55	.55	.55
	10.0	-2.27	-1.49	-1.22	-1.04	-.99	.49	.52	.53	.54	.55
	15.0	-1.73	-1.46	-1.18	-1.01	-.96	.46	.48	.49	.50	.51
	20.0	-1.37	-1.38	-1.16	-.99	-.94	.42	.43	.45	.46	.47
	25.0	-1.01	-1.37	-1.16	-.99	-.94	.38	.39	.41	.42	.44
	30.0	-.89	-1.31	-1.13	-.96	-.93	.35	.35	.37	.38	.40
	35.0	-.73	-1.24	-1.15	-.99	-.95	.31	.32	.33	.34	.36
	40.0	-.69	-1.18	-1.08	-.95	-.91	.28	.28	.32	.30	.32
	45.0	-.61	-1.11	-1.08	-.95	-.91	.25	.25	.26	.27	.28
	50.0	-.59	-1.02	-1.03	-.93	-.89	.22	.22	.23	.23	.24
	60.0	-.43	-.87	-.95	-.91	-.87	.20	.19	.19	.18	.18
	70.0	-.36	-.77	-.89	-.86	-.84	.17	.15	.13	.12	.11
	80.0	-.22	-.60	-.77	-.79	-.78	.15	.12	.09	.06	.05
	90.0	-.12	-.48	-.66	-.70	-.71	.10	.03	-.03	-.08	-.09
	95.0	-.07	-.40	-.59	-.67	-.67	.07	-.02	-.13	-.19	-.20

NACA

TABLE XVII.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	26°	Lower surface, Angle of attack 18°	20°	22°	24°	26°
0.707 b/2	0	-3.10	-1.21	-1.06	-0.94	-0.88	- - -	- - -	- - -	- - -	- - -
	1.5	-1.66	-1.13	-.98	-.86	-.81	0.16	0.27	0.27	0.27	0.21
	4.0	-1.56	-1.11	-.90	-.78	-.76	.51	.48	.48	.49	.48
	7.0	-1.52	-1.02	-.90	-.79	-.76	.52	.49	.50	.51	.51
	10.0	-1.44	-.97	-.88	-.77	-.74	.48	.46	.47	.48	.49
	15.0	-1.37	-.97	-.88	-.77	-.76	.43	.42	.43	.44	.46
	20.0	-1.27	-.92	-.82	-.73	-.71	.37	.37	.38	.39	.41
	25.0	-1.22	-.91	-.82	-.73	-.71	.33	.33	.34	.35	.37
	30.0	-1.14	-.87	-.80	-.71	-.68	.40	.28	.29	.31	.32
	35.0	-1.10	-.87	-.81	-.72	-.68	.25	.25	.25	.27	.28
	40.0	-1.01	-.86	-.80	-.71	-.68	.22	.21	.21	.22	.24
	45.0	-1.00	-.88	-.83	-.73	-.71	.19	.18	.18	.19	.20
	50.0	-.92	-.86	-.81	-.72	-.71	.16	.14	.14	.15	.16
	60.0	-.76	-.81	-.79	-.72	-.71	.13	.10	.10	.09	.11
	70.0	-.61	-.73	-.74	-.69	-.68	.10	.06	.04	.04	.05
	80.0	-.46	-.65	-.68	-.64	-.64	.10	.01	-.01	-.01	-.01
	90.0	-.34	-.56	-.59	-.58	-.58	.02	-.08	-.11	-.11	-.12
	95.0	-.23	-.52	-.56	-.55	-.56	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-1.27	-.87	-.77	-.71	-.66	- - -	- - -	- - -	- - -	- - -
	1.5	-1.15	-.82	-.75	-.66	-.64	.28	.30	.30	.31	.28
	4.0	-1.10	-.82	-.72	-.66	-.63	.47	.46	.46	.46	.46
	7.0	-1.13	-.85	-.76	-.68	-.66	.46	.45	.45	.46	.47
	10.0	-1.05	-.78	-.71	-.64	-.61	.42	.41	.42	.46	.45
	15.0	-1.05	-.77	-.70	-.62	-.61	.36	.36	.37	.38	.40
	20.0	-.99	-.75	-.67	-.61	-.59	.30	.30	.31	.33	.34
	25.0	-.99	-.75	-.67	-.61	-.59	.26	.26	.27	.28	.30
	30.0	-.96	-.72	-.64	-.58	-.58	.21	.21	.22	.23	.25
	35.0	-.90	-.72	-.66	-.58	-.58	.18	.17	.18	.19	.21
	40.0	-.87	-.71	-.65	-.58	-.57	.14	.13	.14	.15	.16
	45.0	-.84	-.70	-.66	-.59	-.58	.12	.10	.10	.11	.12
	50.0	-.77	-.68	-.65	-.59	-.58	.09	.07	.07	.08	.09
	60.0	-.67	-.64	-.65	-.60	-.59	.06	.03	.03	.04	.04
	70.0	-.56	-.60	-.63	-.58	-.57	.03	-.01	-.02	-.01	-.01
	80.0	-.49	-.57	-.61	-.55	-.57	.02	-.03	-.05	-.04	-.03
	90.0	-.43	-.51	-.54	-.51	-.55	-.06	-.12	-.14	-.13	-.13
	95.0	-.40	-.49	-.51	-.48	-.50	.01	0	0	0	-.01
0.924 b/2	0	-1.04	-.82	-.77	-.74	-.73	- - -	- - -	- - -	- - -	- - -
	1.5	-.89	-.67	-.59	-.53	-.52	.28	.29	.20	.31	.28
	4.0	-.91	-.70	-.53	-.57	-.56	- - -	- - -	- - -	- - -	- - -
	7.0	-.91	-.72	-.62	-.56	-.53	.34	.35	.36	.38	.38
	10.0	-.91	-.72	-.60	-.50	-.50	.29	.30	.31	.33	.34
	15.0	-.90	-.70	-.59	-.50	-.50	.23	.23	.24	.26	.27
	20.0	-.86	-.67	-.55	-.49	-.48	.15	.15	.16	.18	.19
	25.0	-.83	-.63	-.54	-.50	-.50	.12	.12	.13	.15	.16
	30.0	-.76	-.59	-.53	-.50	-.50	.06	.16	.07	.08	.10
	35.0	-.68	-.54	-.52	-.55	-.45	.05	.04	.05	.06	.07
	40.0	-.66	-.51	-.50	-.46	-.48	.01	.01	.01	.02	.02
	45.0	-.63	-.49	-.50	-.47	-.49	0	-.01	-.01	.01	.01
	50.0	-.58	-.46	-.49	-.45	-.48	-.02	-.03	-.04	-.03	-.02
	60.0	-.54	-.46	-.50	-.46	-.48	-.03	-.05	-.06	-.05	-.04
	70.0	-.52	-.45	-.49	-.45	-.47	-.06	-.08	-.09	-.08	-.08
	80.0	-.51	-.46	-.49	-.44	-.45	-.06	-.08	-.09	-.08	-.08
	90.0	-.48	-.44	-.46	-.42	-.42	-.11	-.13	-.14	-.12	-.13
	95.0	-.47	-.43	-.45	-.41	-.41	-.17	-.19	-.20	-.18	-.17

TABLE XVIII.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.60; R, 6,000,000

(a) α_u, -2°, 0°, 2°, 4°, 6°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.086 b/2	0	0.26	0.41	0.48	0.49	0.39	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.22	.09	-.07	.24	-0.48	-0.23	-0.05	0.11	0.25
	4.0	.19	.09	-.01	-.14	-.26	-.26	-.13	-.02	.09	.19
	7.0	.12	.06	-.06	-.16	-.26	-.22	-.12	-.03	.06	.14
	10.0	.08	0	-.09	-.17	-.26	-.21	-.12	-.04	.04	.12
	15.0	.02	-.05	-.13	-.21	-.28	-.17	-.10	-.03	.04	.11
	20.0	-.02	-.09	-.16	-.24	-.30	-.17	-.10	-.04	.03	.09
	25.0	-.05	-.11	-.19	-.25	-.31	-.18	-.11	-.05	.01	.07
	30.0	-.08	-.14	-.20	-.26	-.33	-.17	-.11	-.05	.01	.06
	35.0	-.11	-.17	-.23	-.29	-.34	-.17	-.11	-.06	0	.05
	40.0	-.14	-.20	-.25	-.31	-.36	-.18	-.12	-.07	-.02	.03
	45.0	-.18	-.23	-.28	-.33	-.38	-.17	-.11	-.08	-.02	.02
	50.0	-.19	-.24	-.29	-.34	-.39	-.16	-.11	-.08	-.03	.02
	60.0	-.20	-.25	-.29	-.33	-.37	-.11	-.08	-.04	.01	.04
	70.0	-.19	-.22	-.25	-.28	-.31	-.06	-.03	0	.03	.06
	80.0	-.15	-.17	-.19	-.21	-.23	0	.02	.05	.07	.09
	90.0	-.04	-.04	-.06	-.07	-.07	.03	.05	.06	.07	.09
	95.0	.01	.01	.01	.01	.01	.05	.05	.06	.07	.08
0.195 b/2	0	.09	.33	.44	.41	.23	- - -	- - -	- - -	- - -	- - -
	1.5	.32	.19	.02	-.19	-.44	-.74	-.32	-.09	.11	.27
	4.0	.19	.06	-.07	-.22	-.39	-.36	-.19	-.06	.08	.19
	7.0	.11	0	-.12	-.25	-.38	-.30	-.16	-.07	.04	.14
	10.0	.06	-.04	-.15	-.26	-.37	-.27	-.16	-.07	.02	.11
	15.0	0	-.09	-.19	-.28	-.37	-.23	-.13	-.06	.01	.10
	20.0	-.05	-.13	-.22	-.30	-.38	-.21	-.13	-.07	.01	.08
	25.0	-.08	-.17	-.24	-.31	-.38	-.20	-.13	-.08	-.01	.05
	30.0	-.12	-.19	-.27	-.33	-.39	-.19	-.12	-.07	-.01	.05
	35.0	-.14	-.21	-.29	-.34	-.40	-.18	-.12	-.07	-.02	.04
	40.0	-.17	-.24	-.31	-.36	-.41	-.18	-.12	-.08	-.03	.02
	45.0	-.20	-.26	-.32	-.37	-.42	-.16	-.12	-.07	-.03	.02
	50.0	-.21	-.26	-.31	-.36	-.41	-.15	-.11	-.07	-.03	.01
	60.0	-.21	-.25	-.29	-.34	-.38	-.10	-.06	-.03	.01	.04
	70.0	-.19	-.20	-.25	-.27	-.29	-.04	-.01	.01	.04	.06
	80.0	-.13	-.15	-.17	-.19	-.20	.02	.04	.06	.07	.10
	90.0	-.02	-.03	-.04	-.04	-.04	.05	.06	.07	.09	.10
	95.0	.04	.03	.03	.03	.03	.07	.07	.08	.08	.09
0.382 b/2	0	-.10	.26	.43	.40	.14	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.20	0	-.26	-.58	-1.08	-.45	-.13	.11	.30
	4.0	.20	.06	-.11	-.30	-.53	.49	-.27	-.09	.08	.21
	7.0	.10	-.03	-.17	-.33	-.50	-.40	-.23	-.10	.03	.15
	10.0	.05	-.06	-.19	-.32	-.46	-.33	-.20	-.09	.02	.12
	15.0	-.01	-.11	-.23	-.34	-.45	-.27	-.17	-.08	.01	.10
	20.0	-.06	-.16	-.27	-.36	-.46	-.23	-.14	-.07	0	.08
	25.0	-.10	-.19	-.27	-.36	-.44	-.22	-.14	-.08	-.01	.06
	30.0	-.12	-.21	-.29	-.36	-.44	-.20	-.13	-.08	-.01	.05
	35.0	-.15	-.23	-.31	-.37	-.44	-.19	-.12	-.07	-.01	.04
	40.0	-.19	-.25	-.32	-.38	-.44	-.18	-.13	-.08	-.02	.02
	45.0	-.21	-.27	-.34	-.39	-.44	-.16	-.11	-.08	-.03	.02
	50.0	-.22	-.26	-.32	-.37	-.42	-.15	-.10	-.07	-.03	.01
	60.0	-.20	-.24	-.29	-.32	-.35	-.08	-.05	-.02	.01	.04
	70.0	-.17	-.20	-.23	-.25	-.27	-.02	0	.02	.04	.06
	80.0	-.12	-.13	-.16	-.17	-.17	.04	.05	.07	.09	.10
	90.0	-.01	-.01	-.02	-.02	-.02	.07	.08	.07	.10	.10
	95.0	.05	.04	.05	.05	.04	.09	.09	.09	.10	.10
0.555 b/2	0	-.19	.23	.41	.36	.03	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.18	-.05	-.36	-.73	-1.22	-.54	-.14	.15	.32
	4.0	.23	.08	-.10	-.33	-.59	-.55	-.30	-.10	.06	.22
	7.0	.13	0	-.16	-.34	-.54	-.45	-.26	-.11	.03	.16
	10.0	.07	-.05	-.20	-.34	-.50	-.38	-.23	-.11	.01	.12
	15.0	.01	-.10	-.23	-.35	-.48	-.30	-.19	-.09	0	.05
	20.0	-.05	-.15	-.27	-.38	-.48	-.26	-.16	-.09	-.01	.08
	25.0	-.08	-.18	-.27	-.37	-.46	-.23	-.15	-.09	-.02	.06
	30.0	-.11	-.20	-.29	-.38	-.46	-.21	-.14	-.08	-.02	.05
	35.0	-.14	-.23	-.31	-.39	-.46	-.20	-.13	-.08	-.03	.02
	40.0	-.18	-.25	-.32	-.40	-.45	-.18	-.12	-.08	-.03	.02
	45.0	-.20	-.27	-.33	-.39	-.44	-.16	-.11	-.07	-.03	.02
	50.0	-.21	-.27	-.33	-.39	-.42	-.14	-.10	-.07	-.03	.01
	60.0	-.20	-.24	-.29	-.32	-.35	-.08	-.04	-.02	.01	.04
	70.0	-.16	-.19	-.22	-.24	-.26	-.01	.01	.02	.04	.06
	80.0	-.11	-.13	-.14	-.16	-.16	.04	.06	.07	.09	.09
	90.0	-.01	-.01	-.02	-.02	-.02	.08	.08	.09	.10	.09
	95.0	.05	.05	.05	.05	.05	.10	.10	.10	.11	.11

TABLE XVIII.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.707 b/2	0	-0.46	0.12	0.43	0.42	-0.03	- - -	- - -	- - -	- - -	- - -
	1.5	.38	.26	.03	-.28	-.68	-1.51	-0.69	-0.24	0.11	0.31
	4.0	.26	.12	-.07	-.30	-.58	-.68	-.40	-.16	.05	.20
	7.0	.16	.03	-.14	-.33	-.54	-.51	-.31	-.14	.01	.14
	10.0	.11	-.02	-.17	-.33	-.59	-.42	-.26	-.13	0	.11
	15.0	.03	-.08	-.22	-.34	-.49	-.33	-.20	-.10	-.01	.08
	20.0	-.03	-.13	-.25	-.36	-.48	-.27	-.18	-.09	-.02	.06
	25.0	-.07	-.17	-.27	-.36	-.46	-.24	-.17	-.09	-.03	.05
	30.0	-.12	-.20	-.29	-.37	-.46	-.22	-.15	-.09	-.04	.02
	35.0	-.14	-.23	-.30	-.38	-.45	-.20	-.14	-.09	-.04	.01
	40.0	-.17	-.24	-.31	-.37	-.44	-.18	-.14	-.09	-.04	0
	45.0	-.19	-.25	-.31	-.38	-.43	-.15	-.12	-.08	-.04	0
	50.0	-.20	-.25	-.31	-.36	-.41	-.12	-.10	-.06	-.04	0
	60.0	-.19	-.23	-.27	-.31	-.34	-.06	-.04	-.02	.01	.01
	70.0	-.16	-.18	-.21	-.24	-.25	0	.01	.03	.04	.04
	80.0	-.10	-.12	-.14	-.16	-.16	.06	.07	.07	.08	.07
	90.0	0	-.01	-.02	-.02	-.02	.08	.10	.10	.10	.09
	95.0	.05	.05	.05	.05	.04	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.23	.32	.56	.53	.24	- - -	- - -	- - -	- - -	- - -
	1.5	.39	.28	.08	-.33	-.66	-1.28	-.72	-.29	.08	.39
	4.0	.26	.24	-.05	-.28	-.55	-.82	-.44	-.20	.01	.18
	7.0	.16	.04	-.12	-.31	-.52	-.66	-.34	-.16	0	.11
	10.0	.11	-.01	-.15	-.32	-.49	-.49	-.28	-.14	-.02	.09
	15.0	.02	-.08	-.21	-.33	-.46	-.37	-.23	-.12	-.03	.05
	20.0	-.03	-.12	-.24	-.35	-.46	-.30	-.19	-.11	-.04	.03
	25.0	-.07	-.16	-.25	-.35	-.44	-.25	-.18	-.10	-.05	.01
	30.0	-.11	-.20	-.28	-.36	-.44	-.21	-.16	-.10	-.05	0
	35.0	-.14	-.22	-.29	-.36	-.43	-.19	-.14	-.09	-.05	-.01
	40.0	-.17	-.23	-.29	-.35	-.41	-.16	-.12	-.09	-.06	-.03
	45.0	-.19	-.24	-.29	-.35	-.40	-.13	-.11	-.08	-.06	-.03
	50.0	-.20	-.24	-.29	-.34	-.39	-.10	-.08	-.06	-.05	-.02
	60.0	-.18	-.21	-.25	-.28	-.31	-.04	-.03	-.02	0	0
	70.0	-.15	-.17	-.19	-.21	-.23	.02	.02	.02	.03	.02
	80.0	-.10	-.11	-.12	-.14	-.15	.06	.08	.08	.08	.06
	90.0	0	0	-.01	0	-.02	.10	.11	.10	.09	.08
	95.0	.06	.06	.06	.05	.05	- - -	- - -	- - -	- - -	- - -
0.924 b/2	0	-1.02	-.54	.14	.40	.35	- - -	- - -	- - -	- - -	- - -
	1.5	.37	.28	.09	-.20	-.57	-1.14	-.93	-.38	.02	.25
	4.0	.24	.13	-.04	-.24	-.49	- - -	- - -	- - -	- - -	- - -
	7.0	.15	.04	-.11	-.28	-.47	-.77	-.36	-.20	-.05	.07
	10.0	.07	-.03	-.15	-.29	-.44	-.51	-.30	-.18	-.07	.03
	15.0	-.01	-.10	-.21	-.31	-.42	-.38	-.24	-.15	-.08	-.01
	20.0	-.07	-.15	-.24	-.31	-.39	-.27	-.18	-.12	-.08	-.04
	25.0	-.10	-.17	-.24	-.32	-.38	-.21	-.15	-.11	-.08	-.04
	30.0	-.14	-.20	-.25	-.31	-.37	-.18	-.13	-.10	-.08	-.06
	35.0	-.15	-.21	-.25	-.32	-.36	-.14	-.11	-.09	-.07	-.06
	40.0	-.16	-.20	-.24	-.30	-.34	-.13	-.10	-.08	-.07	-.07
	45.0	-.17	-.21	-.25	-.30	-.34	-.11	-.09	-.07	-.07	-.06
	50.0	-.17	-.20	-.24	-.27	-.32	-.08	-.07	-.05	-.05	-.06
	60.0	-.15	-.18	-.20	-.23	-.26	-.03	-.02	-.02	-.03	-.04
	70.0	-.11	-.13	-.14	-.17	-.20	.01	.03	.02	0	-.01
	80.0	-.06	-.08	-.09	-.12	-.14	.06	.08	.07	.06	.03
	90.0	.02	.01	.01	-.02	-.05	.09	.10	.09	.07	.05
	95.0	.07	.07	.06	.04	0	.10	.12	.11	.09	.06

TABLE XVIII.- CONTINUED

(b) α_u, 8°, 10°, 12°, 14°, 16°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.086 b/2	0	0.21	-0.05	-0.41	-0.86	-1.28	- - -	- - -	- - -	- - -	- - -
	1.5	-.46	-.70	-.94	-1.14	-1.88	0.36	0.44	0.52	0.56	0.60
	4.0	-.40	-.54	-.71	-.91	-1.09	.28	.35	.43	.49	.55
	7.0	-.36	-.47	-.61	-.75	-.90	.22	.29	.37	.43	.49
	10.0	-.35	-.46	-.57	-.69	-.81	.19	.26	.33	.39	.45
	15.0	-.36	-.44	-.54	-.64	-.75	.17	.23	.30	.35	.40
	20.0	-.38	-.45	-.54	-.64	-.73	.15	.20	.27	.32	.37
	25.0	-.38	-.44	-.53	-.61	-.71	.12	.18	.25	.29	.34
	30.0	-.39	-.45	-.52	-.60	-.68	.11	.16	.22	.27	.32
	35.0	-.40	-.46	-.52	-.59	-.67	.09	.15	.21	.25	.30
	40.0	-.42	-.48	-.54	-.60	-.68	.08	.13	.18	.23	.27
	45.0	-.43	-.49	-.54	-.60	-.67	.07	.12	.17	.21	.25
	50.0	-.43	-.48	-.52	-.58	-.64	.06	.11	.16	.20	.25
	60.0	-.40	-.44	-.48	-.52	-.58	.08	.11	.16	.20	.23
	70.0	-.34	-.35	-.38	-.42	-.46	.09	.12	.16	.19	.22
	80.0	-.24	-.25	-.27	-.29	-.33	.12	.14	.17	.20	.22
	90.0	-.07	-.08	-.09	-.10	-.13	.11	.18	.15	.16	.17
	95.0	0	0	0	-.01	-.04	.09	.10	.12	.13	.13
0.195 b/2	0	-.10	-.55	-1.13	-1.71	-2.25	- - -	- - -	- - -	- - -	- - -
	1.5	-.73	-1.22	-1.46	-2.04	-1.97	.37	.46	.51	.51	.54
	4.0	-.58	-.78	-1.01	-1.43	-1.64	.29	.37	.45	.51	.55
	7.0	-.53	-.67	-.86	-1.14	-1.54	.23	.31	.39	.45	.50
	10.0	-.50	-.61	-.77	-.98	-1.25	.19	.27	.34	.41	.46
	15.0	-.48	-.57	-.70	-.84	-1.03	.16	.23	.30	.36	.41
	20.0	-.48	-.56	-.66	-.79	-.93	.14	.20	.26	.32	.37
	25.0	-.47	-.53	-.63	-.72	-.84	.11	.17	.23	.29	.34
	30.0	-.47	-.53	-.61	-.70	-.80	.10	.15	.21	.27	.31
	35.0	-.47	-.52	-.60	-.68	-.77	.09	.14	.19	.24	.29
	40.0	-.48	-.52	-.59	-.67	-.75	.07	.12	.17	.22	.26
	45.0	-.47	-.51	-.57	-.64	-.71	.06	.11	.16	.20	.25
	50.0	-.46	-.50	-.54	-.59	-.66	.05	.10	.14	.19	.22
	60.0	-.40	-.43	-.45	-.50	-.55	.07	.11	.15	.18	.21
	70.0	-.31	-.33	-.34	-.38	-.41	.09	.12	.15	.18	.21
	80.0	-.20	-.20	-.21	-.24	-.26	.11	.13	.16	.15	.20
	90.0	-.04	-.05	-.05	-.08	-.09	.10	.12	.13	.11	.15
	95.0	.04	.02	.01	-.01	-.03	.09	.10	.11	.11	.11
0.382 b/2	0	-.33	-.89	-1.36	-1.70	-2.22	- - -	- - -	- - -	- - -	- - -
	1.5	-1.20	-1.73	-1.63	-1.51	-1.73	.40	.45	.47	.46	.44
	4.0	-.78	-1.05	-1.39	-1.42	-1.64	.30	.39	.44	.48	.52
	7.0	-.70	-.90	-1.31	-1.37	-1.61	.24	.32	.39	.44	.49
	10.0	-.62	-.78	-1.09	-1.22	-1.53	.20	.28	.35	.40	.45
	15.0	-.58	-.71	-.92	-1.15	-1.54	.17	.24	.29	.36	.41
	20.0	-.57	-.66	-.83	-1.01	-1.39	.14	.21	.26	.31	.37
	25.0	-.54	-.63	-.75	-.93	-1.29	.11	.17	.23	.28	.33
	30.0	-.52	-.59	-.70	-.84	-1.09	.10	.15	.21	.26	.30
	35.0	-.52	-.57	-.66	-.78	-.97	.09	.14	.19	.23	.28
	40.0	-.51	-.56	-.63	-.63	-.84	.07	.11	.16	.21	.25
	45.0	-.50	-.53	-.60	-.67	-.75	.06	.11	.15	.19	.22
	50.0	-.46	-.50	-.54	-.60	-.66	.05	.09	.13	.17	.20
	60.0	-.39	-.40	-.43	-.48	-.51	.07	.10	.13	.16	.19
	70.0	-.28	-.29	-.30	-.34	-.39	.08	.10	.13	.15	.17
	80.0	-.17	-.18	-.18	-.22	-.26	.10	.12	.14	.15	.16
	90.0	-.03	-.03	-.04	-.10	-.12	.10	.11	.11	.12	.12
	95.0	.03	.02	0	-.05	-.05	.10	.10	.10	.09	.09
0.555 b/2	0	-.55	-1.14	-1.41	-1.81	-2.00	- - -	- - -	- - -	- - -	- - -
	1.5	-1.44	-1.91	-1.42	-1.51	-1.62	.41	.45	.45	.42	.41
	4.0	-.88	-1.26	-1.34	-1.43	-1.54	.31	.30	.44	.47	.50
	7.0	-.76	-1.03	-1.29	-1.37	-1.54	.25	.32	.39	.44	.48
	10.0	-.70	-.89	-1.16	-1.25	-1.48	.20	.29	.35	.40	.44
	15.0	-.62	-.78	-1.05	-1.20	-1.42	.17	.24	.29	.35	.39
	20.0	-.60	-.71	-.91	-1.08	-1.33	.14	.20	.26	.31	.35
	25.0	-.57	-.65	-.82	-1.00	-1.29	.11	.17	.22	.27	.31
	30.0	-.55	-.62	-.75	-.88	-1.21	.10	.15	.20	.24	.28
	35.0	-.54	-.59	-.69	-.79	-1.16	.08	.13	.18	.21	.25
	40.0	-.52	-.56	-.64	-.70	-1.07	.06	.11	.15	.19	.21
	45.0	-.50	-.53	-.59	-.63	-1.00	.06	.10	.13	.17	.19
	50.0	-.47	-.49	-.53	-.57	-.91	.05	.08	.12	.15	.16
	60.0	-.38	-.37	-.42	-.45	-.75	.06	.09	.12	.14	.15
	70.0	-.27	-.27	-.29	-.32	-.59	.07	.09	.11	.12	.12
	80.0	-.16	-.14	-.18	-.21	-.44	.10	.11	.12	.12	.11
	90.0	-.02	-.03	-.08	-.13	-.33	.09	.09	.10	.08	.05
	95.0	.03	.01	-.03	-.09	-.26	.10	.09	.09	.06	0

TABLE XVIII.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.707 b/2	0	-0.62	-1.21	-1.43	-1.65	-1.46	- - -	- - -	- - -	- - -	- - -
	1.5	-1.48	-1.77	-1.28	-1.38	-1.16	0.40	0.44	0.42	0.39	0.39
	4.0	-.89	-1.34	-1.30	-1.32	-1.03	.32	.39	.42	.45	.48
	7.0	-.79	-1.17	-1.23	-1.28	-1.04	.25	.32	.37	.41	.44
	10.0	-.70	-.94	-1.11	-1.17	-1.00	.21	.28	.33	.37	.39
	15.0	-.64	-.80	-1.02	-1.10	-.98	.17	.23	.28	.32	.34
	20.0	-.60	-.71	-.89	-.98	-.93	.14	.19	.24	.28	.30
	25.0	-.58	-.66	-.81	-.92	-.91	.10	.16	.20	.25	.26
	30.0	-.55	-.61	-.73	-.82	-.86	.09	.12	.16	.20	.21
	35.0	-.53	-.58	-.67	-.75	-.84	.06	.10	.14	.17	.18
	40.0	-.50	-.53	-.60	-.66	-.79	.05	.08	.11	.14	.15
	45.0	-.48	-.51	-.54	-.59	-.76	.04	.07	.10	.12	.12
	50.0	-.44	-.48	-.48	-.51	-.73	.03	.05	.08	.10	.09
	60.0	-.35	-.36	-.36	-.41	-.67	.04	.05	.07	.08	.06
	70.0	-.26	-.25	-.27	-.30	-.59	.06	.06	.07	.07	.03
	80.0	-.15	-.13	-.17	-.23	-.54	.07	.07	.07	.07	.01
	90.0	-.01	-.03	-.09	-.17	-.48	.09	.07	.06	.03	-.08
	95.0	.04	.01	-.05	-.14	-.44	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.47	-1.12	-1.57	-1.91	-1.10	- - -	- - -	- - -	- - -	- - -
	1.5	-1.45	-1.65	-1.50	-1.66	-.97	.40	.42	.40	.37	.39
	4.0	-.85	-1.30	-1.33	-1.49	-.95	.29	.37	.40	.43	.44
	7.0	-.75	-1.18	-1.30	-1.52	-.96	.23	.30	.36	.38	.40
	10.0	-.68	-.94	-1.13	-1.31	-.92	.19	.25	.30	.33	.35
	15.0	-.62	-.75	-1.05	-1.28	-.80	.13	.19	.25	.29	.29
	20.0	-.58	-.68	-.87	-1.05	-.75	.11	.15	.19	.24	.24
	25.0	-.55	-.62	-.76	-.93	-.73	.08	.12	.15	.19	.20
	30.0	-.52	-.57	-.66	-.75	-.69	.05	.09	.11	.14	.15
	35.0	-.50	-.53	-.59	-.65	-.66	.03	.06	.10	.12	.11
	40.0	-.46	-.51	-.52	-.55	-.63	.01	.04	.06	.09	.08
	45.0	-.44	-.47	-.47	-.49	-.60	.01	.02	.05	.07	.05
	50.0	-.41	-.44	-.42	-.45	-.58	0	.01	.03	.04	.02
	60.0	-.32	-.33	-.31	-.36	-.53	.01	.01	.02	.03	0
	70.0	-.23	-.23	-.23	-.28	-.48	.03	.02	.02	.01	-.04
	80.0	-.14	-.14	-.18	-.24	-.45	.05	.05	.04	.02	-.04
	90.0	-.02	-.04	-.10	-.19	-.42	.05	.03	.02	-.01	-.11
	95.0	.04	-.01	-.08	-.18	-.40	- - -	- - -	- - -	- - -	- - -
0.924 b/2	0	0	-0.45	-0.74	-1.00	-0.55	- - -	- - -	- - -	- - -	- - -
	1.5	-1.24	-1.68	-1.44	-1.45	-.72	.36	.40	.37	.34	.36
	4.0	-.77	-1.36	-1.26	-1.32	-.71	- - -	- - -	- - -	- - -	- - -
	7.0	-.68	-.94	-1.20	-1.30	-.72	.18	.24	.29	.31	.34
	10.0	-.60	-.78	-1.03	-1.14	-.70	.12	.18	.22	.26	.25
	15.0	-.54	-.65	-.91	-1.06	-.69	.06	.10	.13	.18	.18
	20.0	-.48	-.56	-.72	-.88	-.65	.01	.14	.06	.10	.10
	25.0	-.46	-.53	-.62	-.80	-.62	0	.01	.04	.06	.06
	30.0	-.44	-.49	-.56	-.67	-.57	-.03	-.02	-.01	.01	.01
	35.0	-.42	-.46	-.51	-.61	-.53	-.04	-.04	-.01	0	-.01
	40.0	-.40	-.45	-.48	-.55	-.48	-.05	-.05	-.05	-.04	-.05
	45.0	-.39	-.42	-.43	-.51	-.46	-.05	-.05	-.05	-.04	-.05
	50.0	-.36	-.39	-.40	-.50	-.42	-.05	-.06	-.06	-.05	-.08
	60.0	-.29	-.32	-.33	-.44	-.40	-.04	-.05	-.05	-.05	-.08
	70.0	-.23	-.26	-.29	-.44	-.37	-.03	-.05	-.05	-.05	-.09
	80.0	-.17	-.20	-.24	-.39	-.36	.01	-.01	-.02	-.03	-.08
	90.0	-.10	-.14	-.25	-.39	-.35	.02	-.01	-.03	-.05	-.12
	95.0	-.02	-.08	-.19	-.32	-.35	.03	-.01	-.05	-.10	-.17

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TABLE XVIII.- CONTINUED

(c) α_u, 18°, 20°, 22°, 24°

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	Lower surface, Angle of attack 18°	20°	22°	24°
0.086 b/2	0	-1.67	-2.08	-2.41	-2.60	- - -	- - -	- - -	- - -
	1.5	-2.18	-2.14	-2.09	-2.09	0.61	0.62	0.63	0.64
	4.0	-1.52	-1.69	-1.79	-1.91	.60	.64	.68	.71
	7.0	-1.03	-1.38	-1.65	-1.88	.54	.59	.63	.67
	10.0	-.89	-1.06	-1.30	-1.70	.50	.55	.59	.64
	15.0	-.81	-.88	-.97	-1.21	.46	.50	.54	.58
	20.0	-.78	-.82	-.85	-.98	.42	.46	.50	.55
	25.0	-.75	-.77	-.77	-.81	.39	.42	.46	.50
	30.0	-.74	-.76	-.77	-.82	.36	.40	.44	.47
	35.0	-.72	-.74	-.75	-.80	.34	.37	.40	.44
	40.0	-.70	-.73	-.78	-.82	.31	.35	.37	.41
	45.0	-.69	-.72	-.79	-.82	.30	.32	.35	.38
	50.0	-.67	-.70	-.79	-.81	.27	.30	.32	.35
	60.0	-.61	-.67	-.76	-.80	.26	.27	.30	.32
	70.0	-.50	-.60	-.71	-.78	.24	.25	.26	.28
	80.0	-.38	-.48	-.62	-.73	.23	.23	.24	.25
	90.0	-.18	-.26	-.38	-.52	.17	.16	.15	.13
	95.0	-.08	-.15	-.25	-.39	.13	.10	.07	.04
0.195 b/2	0	-2.56	-2.55	-2.01	-1.52	- - -	- - -	- - -	- - -
	1.5	-1.97	-2.20	-1.91	-1.47	.54	.54	.55	.56
	4.0	-1.70	-1.92	-1.76	-1.36	.59	.62	.65	.68
	7.0	-1.62	-1.86	-1.74	-1.34	.55	.59	.64	.67
	10.0	-1.39	-1.73	-1.65	-1.27	.51	.55	.60	.64
	15.0	-1.20	-1.63	-1.59	-1.27	.46	.51	.55	.59
	20.0	-1.02	-1.39	-1.44	-1.21	.42	.46	.50	.55
	25.0	-.90	-1.13	-1.31	-1.18	.39	.42	.47	.50
	30.0	-.84	-.97	-1.20	-1.11	.36	.40	.42	.46
	35.0	-.79	-.80	-1.09	-1.07	.33	.36	.40	.43
	40.0	-.77	-.76	-1.03	-1.02	.30	.33	.36	.39
	45.0	-.73	-.72	-.95	-.97	.28	.30	.33	.36
	50.0	-.69	-.71	-.92	-.95	.25	.28	.29	.32
	60.0	-.59	-.66	-.84	-.91	.24	.25	.27	.29
	70.0	-.49	-.60	-.78	-.88	.21	.22	.23	.24
	80.0	-.34	-.48	-.68	-.80	.20	.20	.19	.19
	90.0	-.18	-.30	-.54	-.70	.14	.12	.09	.06
	95.0	-.10	-.21	-.43	-.62	.09	.05	-.01	-.07
0.382 b/2	0	-2.20	-1.65	-1.24	-1.10	- - -	- - -	- - -	- - -
	1.5	-1.79	-1.43	-1.13	-1.02	.42	.43	.43	.42
	4.0	-1.68	-1.33	-1.09	-.99	.55	.57	.58	.59
	7.0	-1.66	-1.33	-1.09	-.99	.53	.56	.58	.59
	10.0	-1.60	-1.26	-1.06	-.98	.50	.52	.54	.57
	15.0	-1.62	-1.22	-1.05	-.97	.45	.48	.50	.53
	20.0	-1.54	-1.15	-1.01	-.94	.40	.43	.45	.49
	25.0	-1.48	-1.14	-1.00	-.93	.36	.39	.41	.44
	30.0	-1.34	-1.08	-.96	-.91	.33	.35	.38	.40
	35.0	-1.22	-1.05	-.95	-.91	.30	.32	.35	.37
	40.0	-1.12	-1.01	-.93	-.90	.27	.29	.30	.32
	45.0	-1.02	-.98	-.93	-.89	.25	.26	.27	.29
	50.0	-.95	-.95	-.92	-.90	.21	.22	.24	.25
	60.0	-.78	-.90	-.89	-.88	.19	.19	.19	.20
	70.0	-.66	-.85	-.85	-.85	.16	.15	.14	.14
	80.0	-.50	-.75	-.81	-.82	.14	.11	.09	.08
	90.0	-.36	-.66	-.75	-.78	.07	0	-.05	-.08
	95.0	-.27	-.60	-.72	-.75	.01	-.11	-.18	-.21
0.555 b/2	0	-1.30	-1.04	-.96	-.94	- - -	- - -	- - -	- - -
	1.5	-1.19	-.97	-.91	-.89	.42	.41	.39	.37
	4.0	-1.13	-.95	-.89	-.88	.52	.53	.53	.54
	7.0	-1.12	-.95	-.89	-.88	.51	.52	.53	.55
	10.0	-1.09	-.92	-.88	-.86	.46	.48	.50	.51
	15.0	-1.05	-.91	-.87	-.86	.42	.43	.44	.48
	20.0	-1.01	-.87	-.86	-.85	.37	.39	.41	.43
	25.0	-.99	-.87	-.85	-.84	.33	.35	.36	.39
	30.0	-.96	-.85	-.84	-.83	.29	.31	.32	.34
	35.0	-.95	-.84	-.83	-.82	.26	.27	.29	.30
	40.0	-.91	-.82	-.82	-.81	.22	.23	.25	.27
	45.0	-.91	-.82	-.81	-.81	.20	.20	.21	.23
	50.0	-.88	-.80	-.80	-.79	.17	.17	.17	.19
	60.0	-.83	-.78	-.78	-.78	.14	.12	.12	.13
	70.0	-.78	-.75	-.76	-.76	.10	.07	.06	.07
	80.0	-.70	-.72	-.73	-.73	.06	.02	.01	.01
	90.0	-.64	-.66	-.67	-.68	-.05	-.10	-.12	-.12
	95.0	-.59	-.63	-.64	-.66	-.14	-.21	-.22	-.23

TABLE XVIII.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°		Lower surface, Angle of attack 18°	20°	22°	24°	
0.707 b/2	0	-1.07	-0.85	-0.80	-0.79		- - -	- - -	- - -	- - -	
	1.5	-.88	-.78	-.77	-.76		0.40	0.38	0.36	0.33	
	4.0	-.83	-.76	-.74	-.74		.47	.48	.49	.49	
	7.0	-.83	-.76	-.75	-.74		.45	.45	.47	.49	
	10.0	-.81	-.76	-.74	-.72		.41	.42	.44	.46	
	15.0	-.81	-.75	-.73	-.72		.36	.36	.39	.42	
	20.0	-.78	-.73	-.70	-.70		.31	.31	.34	.37	
	25.0	-.77	-.72	-.70	-.69		.27	.27	.28	.31	
	30.0	-.74	-.70	-.68	-.68		.21	.22	.25	.27	
	35.0	-.73	-.70	-.68	-.68		.19	.20	.20	.24	
	40.0	-.71	-.67	-.66	-.66		.15	.15	.17	.19	
	45.0	-.70	-.67	-.66	-.66		.11	.12	.12	.16	
	50.0	-.68	-.65	-.64	-.65		.09	.08	.09	.12	
	60.0	-.68	-.65	-.64	-.65		.04	.04	.04	.06	
	70.0	-.63	-.61	-.63	-.65		0	-.01	-.01	0	
	80.0	-.58	-.59	-.61	-.61		-.04	-.05	-.05	-.05	
	90.0	-.53	-.54	-.55	-.56		-.12	-.14	-.15	-.15	
	95.0	-.51	-.51	-.54	-.57		- - -	- - -	- - -	- - -	
0.831 b/2	0	-.87	-.72	-.67	-.66		- - -	- - -	- - -	- - -	
	1.5	-.73	-.69	-.65	-.65		.39	.37	.36	.33	
	4.0	-.74	-.67	-.64	-.64		.45	.44	.45	.45	
	7.0	-.73	-.68	-.65	-.64		.40	.42	.43	.45	
	10.0	-.70	-.64	-.62	-.62		.35	.37	.39	.41	
	15.0	-.69	-.64	-.61	-.62		.30	.32	.33	.35	
	20.0	-.67	-.61	-.59	-.60		.25	.25	.27	.30	
	25.0	-.65	-.61	-.59	-.60		.20	.21	.24	.27	
	30.0	-.63	-.58	-.57	-.59		.15	.16	.18	.21	
	35.0	-.62	-.58	-.57	-.59		.12	.12	.14	.16	
	40.0	-.60	-.56	-.56	-.59		.08	.08	.08	.11	
	45.0	-.58	-.56	-.56	-.59		.04	.05	.06	.08	
	50.0	-.56	-.54	-.55	-.57		.01	.01	.01	.04	
	60.0	-.54	-.53	-.56	-.57		-.02	-.02	-.03	-.01	
	70.0	-.49	-.52	-.53	-.54		-.05	-.06	-.06	-.06	
	80.0	-.49	-.50	-.51	-.52		-.07	-.08	-.09	-.08	
	90.0	-.45	-.45	-.48	-.49		-.13	-.14	-.16	-.16	
	95.0	-.44	-.44	-.46	-.48		- - -	- - -	- - -	- - -	
0.924 b/2	0	-.51	-.53	-.57	-.65		- - -	- - -	- - -	- - -	
	1.5	-.58	-.54	-.53	-.56		.35	.34	.33	.30	
	4.0	-.59	-.57	-.56	-.56		- - -	- - -	- - -	- - -	
	7.0	-.60	-.57	-.55	-.56		.32	.34	.35	.36	
	10.0	-.60	-.57	-.52	-.54		.26	.28	.29	.31	
	15.0	-.60	-.56	-.52	-.54		.19	.20	.21	.25	
	20.0	-.59	-.52	-.50	-.54		.10	.11	.12	.15	
	25.0	-.57	-.50	-.50	-.54		.07	.08	.09	.11	
	30.0	-.53	-.48	-.48	-.54		.01	.02	.04	.04	
	35.0	-.49	-.46	-.48	-.52		0	0	0	.01	
	40.0	-.45	-.44	-.48	-.52		-.04	-.04	-.04	0	
	45.0	-.42	-.43	-.48	-.53		-.05	-.05	-.06	-.04	
	50.0	-.40	-.43	-.47	-.51		-.08	-.08	-.09	-.09	
	60.0	-.38	-.41	-.46	-.51		-.09	-.09	-.10	-.10	
	70.0	-.35	-.39	-.45	-.48		-.10	-.11	-.13	-.13	
	80.0	-.36	-.39	-.43	-.46		-.09	-.10	-.12	-.12	
	90.0	-.36	-.37	-.40	-.42		-.12	-.15	-.16	-.16	
	95.0	-.36	-.37	-.38	-.40		-.18	-.19	-.21	-.21	

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TABLE XIX.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.25; R, 8,000,000

(a) α_u, -2°, 0°, 2°, 4°, 6°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.086 b/2	0	0.17	0.37	0.45	0.44	0.31	- - -	- - -	- - -	- - -	- - -
	1.5	.31	.21	.06	-.12	-.31	-0.47	-0.24	-0.04	0.13	0.26
	4.0	.17	.07	-.05	-.17	-.29	-.25	-.13	-.01	.10	.20
	7.0	.11	.03	-.07	-.17	-.28	-.22	-.12	-.02	.07	.15
	10.0	.06	-.01	-.09	-.19	-.28	-.20	-.11	-.03	.05	.12
	15.0	.02	-.05	-.13	-.21	-.28	-.16	-.09	-.02	.05	.11
	20.0	-.02	-.09	-.17	-.25	-.30	-.16	-.09	-.03	.04	.10
	25.0	-.06	-.11	-.17	-.25	-.29	-.16	-.10	-.04	.02	.07
	30.0	-.08	-.13	-.19	-.25	-.30	-.16	-.10	-.04	.01	.07
	35.0	-.11	-.15	-.21	-.26	-.31	-.16	-.10	-.05	.01	.06
	40.0	-.14	-.19	-.23	-.29	-.33	-.14	-.10	-.05	0	.04
	45.0	-.16	-.20	-.25	-.30	-.34	-.14	-.10	-.05	-.01	.04
	50.0	-.17	-.21	-.26	-.30	-.34	-.13	-.10	-.05	-.01	.03
	60.0	-.18	-.21	-.25	-.29	-.31	-.09	-.06	-.02	.02	.05
	70.0	-.16	-.19	-.21	-.24	-.27	-.04	-.01	.01	.04	.07
	80.0	-.08	-.14	-.16	-.18	-.19	.01	.03	.05	.07	.10
	90.0	-.03	-.03	-.04	-.04	-.05	.04	.05	.06	.07	.09
	95.0	.02	.02	.01	.01	.01	.05	.06	.07	.07	.09
0.195 b/2	0	.02	.31	.43	.37	.14	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.18	.01	-.23	-.47	-.52	-.31	-.06	.14	.29
	4.0	.17	.07	-.07	-.25	-.39	-.34	-.18	-.04	.10	.21
	7.0	.09	-.01	-.13	-.25	-.37	-.27	-.16	-.05	.06	.16
	10.0	.06	-.03	-.14	-.25	-.36	-.24	-.14	-.05	.04	.14
	15.0	-.01	-.09	-.17	-.28	-.35	-.20	-.12	-.04	.03	.11
	20.0	-.06	-.12	-.19	-.29	-.35	-.19	-.11	-.04	.02	.10
	25.0	-.08	-.14	-.21	-.29	-.35	-.17	-.11	-.04	.01	.07
	30.0	-.10	-.16	-.22	-.30	-.35	-.16	-.10	-.04	.01	.06
	35.0	-.14	-.16	-.24	-.31	-.35	-.15	-.10	-.04	0	.05
	40.0	-.15	-.20	-.24	-.31	-.36	-.15	-.10	-.05	-.01	.03
	45.0	-.18	-.20	-.26	-.32	-.36	-.13	-.10	-.05	-.01	.03
	50.0	-.18	-.23	-.27	-.31	-.35	-.13	-.10	-.05	-.01	.03
	60.0	-.18	-.21	-.25	-.29	-.31	-.08	-.04	-.01	.02	.05
	70.0	-.15	-.18	-.20	-.23	-.24	-.01	0	.02	.05	.08
	80.0	-.10	-.13	-.14	-.15	-.16	.03	.05	.07	.09	.10
	90.0	0	-.01	-.02	-.02	-.02	.06	.07	.08	.10	.10
	95.0	.05	.04	.04	.04	.03	.07	.08	.09	.10	.10
0.382 b/2	0	-.18	.26	.41	.37	.05	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.20	0	-.28	-.59	-.69	-.42	-.10	.15	.31
	4.0	.21	.07	-.09	-.29	-.50	-.43	-.24	-.06	.10	.23
	7.0	.11	-.01	-.16	-.33	-.46	-.36	-.21	-.07	.06	.17
	10.0	.06	-.04	-.17	-.29	-.42	-.30	-.18	-.06	.04	.15
	15.0	.02	-.07	-.21	-.31	-.41	-.24	-.15	-.05	.03	.11
	20.0	.15	-.12	-.21	-.33	-.41	-.21	-.13	-.05	.02	.09
	25.0	-.07	-.14	-.22	-.33	-.39	-.19	-.12	-.05	.01	.07
	30.0	-.10	-.16	-.22	-.33	-.38	-.17	-.11	-.05	.01	.06
	35.0	-.14	-.17	-.24	-.33	-.38	-.15	-.11	-.04	.01	.06
	40.0	-.15	-.20	-.26	-.33	-.38	-.15	-.11	-.06	-.01	.04
	45.0	-.18	-.22	-.28	-.34	-.38	-.13	-.10	-.05	-.01	.03
	50.0	-.18	-.23	-.27	-.32	-.36	-.12	-.09	-.05	-.01	.03
	60.0	-.17	-.21	-.24	-.28	-.31	-.06	-.04	0	.02	.05
	70.0	-.14	-.17	-.20	-.22	-.24	-.01	0	.03	.05	.07
	80.0	-.10	-.12	-.14	-.15	-.15	.05	.05	.07	.09	.10
	90.0	.01	0	-.01	-.02	-.02	.07	.08	.10	.10	.11
	95.0	.05	.05	.05	.05	.05	.09	.09	.10	.11	.11
0.555 b/2	0	-.29	.22	.42	.35	-.05	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.18	-.05	-.37	-.73	-.75	-.48	-.10	.17	.35
	4.0	.25	.10	-.09	-.31	-.52	-.50	-.27	-.08	.10	.24
	7.0	.13	.03	-.13	-.31	-.47	-.40	-.23	-.08	.06	.18
	10.0	.09	-.01	-.16	-.31	-.44	-.34	-.20	-.08	.03	.14
	15.0	.03	-.05	-.17	-.31	-.41	-.26	-.17	-.06	.02	.11
	20.0	-.02	-.09	-.21	-.33	-.41	-.22	-.14	-.05	.02	.10
	25.0	-.05	-.12	-.21	-.31	-.39	-.20	-.14	-.06	0	.07
	30.0	-.09	-.15	-.23	-.33	-.39	-.18	-.12	-.05	0	.07
	35.0	-.13	-.16	-.24	-.33	-.39	-.16	-.11	-.06	0	.05
	40.0	-.14	-.20	-.24	-.33	-.38	-.15	-.11	-.06	-.01	.06
	45.0	-.16	-.20	-.26	-.33	-.37	-.14	-.10	-.05	-.01	.03
	50.0	-.18	-.20	-.25	-.33	-.36	-.11	-.09	-.04	-.01	.03
	60.0	-.15	-.18	-.22	-.26	-.28	-.05	-.03	0	.02	.06
	70.0	-.14	-.17	-.19	-.21	-.23	0	.01	.03	.05	.08
	80.0	-.10	-.12	-.13	-.15	-.15	.05	.06	.08	.09	.10
	90.0	0	-.01	-.01	-.02	-.02	.08	.08	.10	.10	.11
	95.0	.06	.04	.05	.05	.05	.11	.10	.11	.12	.12

TABLE XIX.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.707 b/2	0	-0.64	0.10	0.43	0.41	-0.01	---	---	---	---	---
	1.5	.40	.28	.06	-.25	-.62	-0.99	-0.60	-0.18	0.14	0.33
	4.0	.29	.14	-.01	-.27	-.51	-.61	-.34	-.12	.07	.22
	7.0	.17	.07	-.09	-.29	-.47	-.45	-.28	-.11	.04	.15
	10.0	.13	.03	-.12	-.28	-.43	-.38	-.24	-.10	.02	.12
	15.0	.06	-.05	-.16	-.29	-.41	-.29	-.18	-.08	.01	.10
	20.0	.01	-.09	-.18	-.30	-.39	-.23	-.16	-.07	.01	.08
	25.0	-.04	-.12	-.21	-.31	-.38	-.21	-.15	-.08	0	.06
	30.0	-.06	-.14	-.22	-.33	-.38	-.19	-.13	-.08	-.01	.04
	35.0	-.10	-.16	-.24	-.33	-.38	-.18	-.12	-.08	-.02	.03
	40.0	-.13	-.16	-.24	-.31	-.36	-.15	-.11	-.08	-.02	.02
	45.0	-.16	-.21	-.27	-.32	-.38	-.14	-.10	-.06	-.02	.01
	50.0	-.17	-.22	-.27	-.31	-.35	-.10	-.08	-.05	-.01	.01
	60.0	-.16	-.20	-.24	-.26	-.31	-.05	-.03	-.01	.02	.03
	70.0	-.13	-.16	-.19	-.21	-.23	.01	.02	.03	.05	.06
	80.0	-.09	-.10	-.13	-.14	-.14	.06	.07	.07	.09	.09
	90.0	.01	0	-.01	-.01	-.02	.10	.10	.10	.11	.10
	95.0	.05	.06	.05	.05	.04	---	---	---	---	---
0.831 b/2	0	-.54	.30	.52	.48	.14	---	---	---	---	---
	1.5	.44	.31	.11	-.20	-.56	-1.18	-.70	-.24	.08	.29
	4.0	.29	.16	-.01	-.25	-.46	-.67	-.40	-.16	.04	.19
	7.0	.18	.08	-.07	-.26	-.43	-.49	-.31	-.14	.02	.13
	10.0	.13	.03	-.11	-.27	-.41	-.40	-.25	-.11	0	.10
	15.0	.06	-.03	-.15	-.28	-.39	-.31	-.21	-.10	-.01	.07
	20.0	0	-.07	-.17	-.29	-.38	-.25	-.17	-.08	-.02	.05
	25.0	-.02	-.10	-.19	-.29	-.36	-.21	-.15	-.08	-.03	.03
	30.0	-.06	-.12	-.21	-.29	-.36	-.19	-.13	-.08	-.03	.02
	35.0	-.10	-.15	-.22	-.29	-.36	-.17	-.12	-.08	-.04	.01
	40.0	-.14	-.19	-.24	-.30	-.36	-.14	-.10	-.07	-.04	0
	45.0	-.16	-.21	-.25	-.30	-.35	-.12	-.10	-.07	-.04	-.01
	50.0	-.17	-.21	-.25	-.30	-.34	-.09	-.07	-.05	-.01	0
	60.0	-.15	-.19	-.21	-.25	-.28	-.04	-.02	-.01	.01	.01
	70.0	-.13	-.15	-.17	-.19	-.20	.02	.03	.03	.04	.04
	80.0	-.09	-.09	-.11	-.12	-.14	.07	.09	.08	.09	.07
	90.0	.01	.01	0	-.01	-.01	.11	.10	.10	.10	.08
	95.0	.06	.05	.06	.05	.05	---	---	---	---	---
0.924 b/2	0	-1.69	-.54	.14	.41	.39	---	---	---	---	---
	1.5	.40	.31	.12	-.15	-.47	-1.24	-.77	-.32	.02	.29
	4.0	.28	.17	.01	-.19	-.39	---	---	---	---	---
	7.0	.17	.08	-.05	-.21	-.39	-.49	-.32	-.14	-.04	.08
	10.0	.11	.03	-.09	-.24	-.36	-.39	-.27	-.12	-.04	.05
	15.0	.03	-.03	-.13	-.25	-.33	-.29	-.20	-.11	-.05	.01
	20.0	-.02	-.06	-.13	-.24	-.31	-.21	-.16	-.10	-.04	-.01
	25.0	-.06	-.11	-.17	-.25	-.31	-.18	-.13	-.09	-.05	-.02
	30.0	-.08	-.12	-.18	-.25	-.29	-.15	-.11	-.08	-.04	-.03
	35.0	-.10	-.12	-.18	-.25	-.29	-.12	-.10	-.06	-.04	-.03
	40.0	-.14	-.18	-.20	-.25	-.30	-.10	-.09	-.07	-.05	-.04
	45.0	-.15	-.18	-.21	-.25	-.30	-.09	-.07	-.05	-.06	-.04
	50.0	-.14	-.17	-.20	-.23	-.28	-.07	-.05	-.05	-.03	-.04
	60.0	-.13	-.15	-.17	-.20	-.23	-.02	-.01	0	-.01	-.02
	70.0	-.10	-.11	-.12	-.15	-.18	.03	.04	.04	.02	0
	80.0	-.06	-.07	-.08	-.09	-.13	.09	.08	.09	.07	.04
	90.0	.01	.02	.02	0	-.14	.11	.10	.10	.08	.05
	95.0	.06	.06	.07	.05	.02	.11	.12	.12	.10	.06

TABLE XIX.- CONTINUED

(b) α_u, 8°, 10°, 12°, 14°, 16°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.086 b/2	0	0.25	-0.31	-0.79	-1.43	-2.14	---	---	---	---	---
	1.5	-.52	-.75	-.97	-1.29	-1.59	0.37	---	0.50	---	0.52
	4.0	-.43	-.61	-.74	-.92	-1.09	.28	---	.42	---	.53
	7.0	-.42	-.49	-.59	-.73	-.83	.22	---	.36	---	.47
	10.0	-.35	-.46	-.54	-.64	-.76	.20	---	.32	---	.44
	15.0	-.35	-.43	-.51	-.60	-.65	.18	---	.29	---	.40
	20.0	-.36	-.43	-.48	-.56	-.61	.15	---	.26	---	.37
	25.0	-.35	-.41	-.46	-.52	-.56	.13	---	.23	---	.34
	30.0	-.36	---	-.47	---	-.55	.11	---	.22	---	.32
	35.0	-.37	---	-.46	---	-.54	.10	---	.20	---	.30
	40.0	-.38	---	-.47	---	-.54	.09	---	.19	---	.28
	45.0	-.39	---	-.46	---	-.52	.08	---	.17	---	.26
	50.0	-.38	---	-.45	---	-.50	.07	---	.15	---	.25
	60.0	-.35	---	-.40	---	-.44	.08	---	.16	---	.24
	70.0	-.29	---	-.33	---	-.34	.10	---	.16	---	.23
	80.0	-.21	---	-.23	---	-.23	.12	---	.17	---	.23
	90.0	-.06	---	-.07	---	-.06	.11	---	.14	---	.20
	95.0	.01	---	.01	---	.03	.10	---	.12	---	.17
0.195 b/2	0	-.30	-.91	-1.72	-2.76	-3.94	---	---	---	---	---
	1.5	-.76	-1.02	-1.61	-1.85	-2.09	.40	0.47	.49	0.49	.43
	4.0	-.58	-.78	-1.00	-1.76	-1.49	.30	.39	.45	.50	.53
	7.0	-.51	-.66	-.82	-.99	-1.15	.25	.32	.39	.45	.50
	10.0	-.47	-.59	-.72	-.86	-.99	.21	.28	.34	.41	.46
	15.0	-.44	-.55	-.63	-.74	-.83	.18	.24	.30	.36	.41
	20.0	-.43	-.51	-.59	-.68	-.75	.15	.21	.27	.32	.38
	25.0	-.42	-.47	-.54	-.62	-.68	.13	.19	.24	.29	.35
	30.0	-.40	-.46	-.51	-.59	-.64	.11	.17	.22	.27	.32
	35.0	-.39	-.45	-.50	-.56	-.60	.10	.15	.20	.25	.30
	40.0	-.39	-.45	-.47	-.53	-.56	.09	.13	.18	.23	.27
	45.0	-.39	-.43	-.46	-.51	-.53	.08	.12	.17	.21	.26
	50.0	-.39	-.43	-.45	-.48	-.51	.07	.11	.15	.20	.24
	60.0	-.34	-.37	-.38	-.40	-.42	.09	.12	.16	.20	.23
	70.0	-.26	-.28	-.29	-.30	-.31	.11	.13	.16	.20	.22
	80.0	-.17	-.18	-.18	-.18	-.19	.12	.14	.17	.20	.22
	90.0	-.02	-.03	-.03	-.03	-.03	.12	.13	.15	.17	.19
	95.0	.04	.04	.04	.04	.04	.11	.11	.12	.14	.16
0.382 b/2	0	-.54	-1.43	-2.56	-4.03	-5.70	---	---	---	---	---
	1.5	-.76	-1.28	-1.74	-2.30	-2.84	.41	.44	.41	.31	.17
	4.0	-.75	-1.01	-1.29	-1.63	-1.95	.33	.40	.44	.47	.47
	7.0	-.65	-.84	-1.04	-1.28	-1.49	.26	.34	.40	.45	.49
	10.0	-.57	-.73	-.88	-1.06	-1.23	.23	.29	.36	.42	.46
	15.0	-.51	-.63	-.75	-.91	-1.02	.19	.24	.31	.36	.41
	20.0	-.49	-.60	-.69	-.80	-.90	.15	.21	.27	.32	.37
	25.0	-.47	-.55	-.63	-.72	-.79	.13	.19	.24	.30	.35
	30.0	-.44	-.51	-.58	-.66	-.72	.11	.17	.22	.27	.31
	35.0	-.43	-.49	-.55	-.61	-.66	.10	.15	.20	.25	.29
	40.0	-.43	-.47	-.52	-.59	-.62	.08	.13	.17	.22	.26
	45.0	-.42	-.46	-.49	-.55	-.57	.08	.12	.16	.20	.25
	50.0	-.40	-.44	-.47	-.50	-.53	.07	.10	.14	.19	.22
	60.0	-.34	-.36	-.38	-.40	-.41	.08	.11	.14	.18	.21
	70.0	-.25	-.27	-.27	-.28	-.28	.10	.12	.14	.17	.20
	80.0	-.16	-.16	-.16	-.15	-.15	.12	.14	.16	.18	.20
	90.0	-.09	-.02	-.01	-.01	-.03	.11	.12	.13	.15	.15
	95.0	.04	.04	.04	.03	.01	.11	.12	.12	.12	.13
0.555 b/2	0	-.80	-2.88	-3.28	-5.08	-7.17	---	---	---	---	---
	1.5	-1.27	-1.86	-2.46	-3.15	-3.76	.43	.43	.36	.25	.02
	4.0	-.81	-1.12	-1.43	-1.82	-2.17	.34	.41	.45	.46	.45
	7.0	-.68	-.90	-1.14	-1.41	-1.64	.27	.35	.40	.46	.48
	10.0	-.61	-.88	-.97	-1.18	-1.37	.23	.30	.36	.41	.46
	15.0	-.54	-.66	-.81	-.97	-1.11	.19	.25	.31	.37	.41
	20.0	-.51	-.63	-.74	-.86	-.97	.16	.22	.27	.32	.38
	25.0	-.47	-.57	-.65	-.77	-.84	.13	.19	.24	.29	.33
	30.0	-.47	-.54	-.61	-.70	-.77	.12	.16	.21	.26	.30
	35.0	-.46	-.51	-.58	-.65	-.70	.10	.14	.19	.24	.27
	40.0	-.45	-.49	-.55	-.60	-.64	.08	.12	.17	.21	.25
	45.0	-.42	-.47	-.51	-.56	-.58	.07	.11	.15	.20	.22
	50.0	-.39	-.43	-.46	-.50	-.52	.06	.10	.14	.18	.21
	60.0	-.31	-.34	-.36	-.38	-.37	.08	.11	.13	.16	.19
	70.0	-.25	-.27	-.27	-.27	-.27	.09	.11	.13	.15	.17
	80.0	-.15	-.16	-.14	-.13	-.14	.12	.12	.14	.15	.16
	90.0	-.02	-.02	-.01	-.02	-.05	.11	.11	.12	.12	.12
	95.0	.05	.04	.04	.01	-.03	.12	.11	.11	.11	.10

TABLE XIX.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.707 b/2	0	-0.84	-2.10	-3.73	-5.85	-7.93	- - -	- - -	- - -	- - -	- - -
	1.5	-.94	-1.58	-2.16	-2.84	-3.51	0.42	0.45	0.37	0.17	-0.03
	4.0	-.81	-1.14	-1.29	-1.90	-2.49	.34	.40	.44	.44	.42
	7.0	-.68	-.93	-1.18	-1.47	-1.68	.26	.34	.40	.44	.45
	10.0	-.61	-.80	-.99	-1.22	-1.34	.22	.29	.36	.40	.44
	15.0	-.56	-.70	-.84	-1.01	-1.07	.18	.24	.30	.35	.39
	20.0	-.51	-.63	-.74	-.87	-.95	.15	.20	.26	.31	.35
	25.0	-.47	-.59	-.66	-.79	-.83	.12	.17	.22	.27	.31
	30.0	-.46	-.55	-.61	-.72	-.75	.10	.14	.19	.24	.27
	35.0	-.45	-.51	-.58	-.68	-.68	.08	.12	.16	.21	.24
	40.0	-.44	-.48	-.52	-.59	-.60	.06	.10	.14	.18	.20
	45.0	-.42	-.48	-.52	-.56	-.58	.06	.09	.12	.15	.18
	50.0	-.40	-.44	-.48	-.50	-.51	.05	.08	.11	.14	.16
	60.0	-.32	-.35	-.37	-.38	-.38	.06	.08	.10	.12	.13
	70.0	-.24	-.26	-.26	-.25	-.24	.08	.09	.10	.11	.12
	80.0	-.14	-.15	-.15	-.13	-.11	.10	.10	.11	.11	.11
	90.0	-.02	-.02	-.02	-.02	-.04	.11	.10	.10	.10	.09
	95.0	.05	.04	.03	.01	-.01	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.76	-2.04	-3.70	-5.89	-8.13	- - -	- - -	- - -	- - -	- - -
	1.5	-.85	-1.46	-2.04	-2.73	-3.25	.41	.45	.37	.17	-.06
	4.0	-.75	-1.07	-1.41	-1.81	-2.09	.31	.39	.43	.43	.40
	7.0	-.66	-.89	-1.12	-1.41	-1.60	.24	.32	.38	.42	.43
	10.0	-.58	-.78	-.96	-1.18	-1.36	.20	.28	.34	.38	.41
	15.0	-.51	-.65	-.80	-.96	-1.10	.15	.21	.27	.32	.36
	20.0	-.49	-.61	-.70	-.83	-.94	.12	.17	.22	.27	.30
	25.0	-.46	-.55	-.63	-.74	-.81	.10	.14	.19	.23	.26
	30.0	-.44	-.51	-.59	-.67	-.72	.07	.11	.15	.19	.21
	35.0	-.42	-.48	-.54	-.61	-.64	.06	.09	.12	.16	.18
	40.0	-.41	-.48	-.53	-.57	-.60	.04	.06	.10	.13	.15
	45.0	-.40	-.45	-.49	-.52	-.54	.02	.05	.08	.11	.12
	50.0	-.37	-.42	-.46	-.48	-.49	.02	.04	.06	.09	.10
	60.0	-.30	-.33	-.35	-.36	-.36	.03	.04	.06	.07	.07
	70.0	-.22	-.25	-.26	-.26	-.25	.05	.05	.05	.06	.05
	80.0	-.14	-.16	-.16	-.15	-.17	.08	.08	.07	.07	.06
	90.0	-.01	-.03	-.04	-.05	-.10	.09	.08	.06	.05	.03
	95.0	.04	.03	.01	-.02	-.08	- - -	- - -	- - -	- - -	- - -
0.924 b/2	0	-.01	-.82	-1.97	-3.49	-5.20	- - -	- - -	- - -	- - -	- - -
	1.5	-.95	-1.34	-1.89	-2.55	-3.13	.42	.45	.38	.20	-.02
	4.0	-.65	-.93	-1.24	-1.59	-1.91	- - -	- - -	- - -	- - -	- - -
	7.0	-.56	-.78	-.98	-1.24	-1.45	.19	.27	.32	.36	.38
	10.0	-.51	-.66	-.82	-1.02	-1.19	.13	.21	.26	.30	.33
	15.0	-.43	-.57	-.69	-.82	-.94	.09	.13	.17	.22	.25
	20.0	-.39	-.50	-.57	-.70	-.77	.04	.08	.11	.13	.15
	25.0	-.36	-.45	-.52	-.63	-.69	.02	.06	.08	.10	.12
	30.0	-.35	-.42	-.49	-.56	-.62	0	.01	.03	.04	.05
	35.0	-.33	-.41	-.45	-.53	-.57	0	.01	.01	.03	.04
	40.0	-.35	-.41	-.48	-.54	-.59	-.02	-.02	-.02	-.01	-.01
	45.0	-.34	-.40	-.47	-.51	-.55	-.02	-.02	-.02	-.01	-.01
	50.0	-.32	-.38	-.43	-.48	-.51	-.03	-.04	-.04	-.04	-.05
	60.0	-.27	-.31	-.36	-.40	-.42	-.02	-.03	-.04	-.04	-.05
	70.0	-.20	-.27	-.31	-.35	-.36	-.01	-.03	-.04	-.06	-.07
	80.0	-.15	-.21	-.25	-.28	-.29	.03	0	-.02	-.03	-.05
	90.0	-.08	-.14	-.19	-.24	-.35	.03	0	-.03	-.04	-.07
	95.0	-.01	-.06	-.10	-.18	-.31	.05	.01	-.03	-.06	-.10

TABLE XIX.- CONTINUED

(c) α_u, 18°, 20°, 22°, 24°, 26°

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	26°	Lower surface, Angle of attack 18°	20°	22°	24°	26°
0.086 b/2	0	-3.04	-4.08	-5.19	-6.42	-7.32	- - -	- - -	- - -	- - -	- - -
	1.5	-1.95	-2.32	-2.67	-3.07	-3.26	0.49	0.44	0.39	0.30	0.24
	4.0	-1.26	-1.48	-1.68	-1.87	-1.97	.56	.59	.61	.62	.64
	7.0	-.99	-1.11	-1.24	-1.40	-1.43	.52	.57	.61	.64	.68
	10.0	-.84	-.97	-1.06	-1.20	-1.28	.49	.54	.59	.62	.66
	15.0	-.74	-.83	-.91	-1.03	-1.12	.45	.49	.54	.57	.61
	20.0	-.68	-.77	-.83	-.98	-1.10	.42	.46	.51	.55	.58
	25.0	-.63	-.70	-.77	-.93	-1.01	.38	.43	.47	.50	.54
	30.0	-.61	-.68	-.74	-.89	-1.02	.36	.41	.45	.48	.51
	35.0	-.59	-.65	-.72	-.86	-.98	.34	.38	.42	.45	.48
	40.0	-.59	-.64	-.71	-.86	-.97	.32	.36	.40	.42	.45
	45.0	-.57	-.63	-.70	-.85	-.95	.30	.34	.38	.40	.43
	50.0	-.54	-.60	-.68	-.83	-.92	.29	.32	.36	.37	.40
	60.0	-.47	-.53	-.61	-.76	-.86	.27	.30	.34	.35	.37
	70.0	-.36	-.43	-.51	-.65	-.76	.26	.29	.31	.31	.33
	80.0	-.25	-.30	-.38	-.51	-.62	.26	.27	.29	.29	.29
	90.0	-.07	-.11	-.17	-.28	-.39	.21	.22	.22	.20	.21
	95.0	.02	-.01	-.06	-.15	-.25	.19	.18	.19	.15	.13
0.193 b/2	0	-5.41	-7.13	-8.94	-9.72	-6.20	- - -	- - -	- - -	- - -	- - -
	1.5	-2.79	-3.31	-3.79	-3.68	-2.50	.34	.22	.09	.05	.16
	4.0	-1.76	-2.05	-2.32	-3.21	-2.40	.54	.55	.54	.59	.64
	7.0	-1.33	-1.54	-1.72	-2.63	-2.34	.54	.58	.61	.66	.70
	10.0	-1.14	-1.29	-1.44	-2.35	-2.16	.51	.56	.60	.65	.68
	15.0	-.95	-1.06	-1.18	-1.81	-1.93	.47	.52	.57	.61	.65
	20.0	-.83	-.95	-1.06	-1.59	-1.70	.43	.49	.53	.57	.60
	25.0	-.75	-.83	-.97	-1.27	-1.52	.40	.45	.50	.53	.56
	30.0	-.70	-.78	-.94	-1.18	-1.39	.37	.42	.46	.50	.52
	35.0	-.65	-.74	-.87	-1.04	-1.28	.35	.40	.43	.46	.49
	40.0	-.62	-.70	-.84	-1.00	-1.18	.32	.36	.40	.42	.44
	45.0	-.57	-.66	-.79	-.92	-1.09	.30	.34	.38	.40	.41
	50.0	-.56	-.63	-.76	-.86	-1.05	.28	.32	.35	.37	.38
	60.0	-.45	-.53	-.64	-.74	-.91	.27	.30	.31	.34	.34
	70.0	-.34	-.41	-.51	-.62	-.79	.26	.27	.29	.29	.29
	80.0	-.20	-.27	-.36	-.47	-.63	.25	.26	.26	.26	.25
	90.0	-.04	-.10	-.18	-.29	-.45	.21	.21	.20	.18	.14
	95.0	.03	-.02	-.09	-.21	-.35	.17	.16	.14	.10	.05
0.382 b/2	0	-7.78	-10.06	-6.82	-4.82	-2.04	- - -	- - -	- - -	- - -	- - -
	1.5	-3.45	-4.05	-2.26	-1.56	-1.42	-.04	-.25	-.06	.03	.17
	4.0	-2.30	-2.67	-2.20	-1.56	-1.38	.45	.44	.51	.52	.54
	7.0	-1.75	-2.03	-2.18	-1.54	-1.37	.51	.55	.59	.60	.60
	10.0	-1.44	-1.72	-2.03	-1.51	-1.33	.50	.55	.59	.60	.60
	15.0	-1.18	-1.41	-1.99	-1.48	-1.32	.46	.52	.55	.57	.57
	20.0	-1.01	-1.24	-1.83	-1.44	-1.27	.42	.48	.58	.52	.53
	25.0	-.90	-1.10	-1.71	-1.44	-1.24	.39	.45	.47	.49	.50
	30.0	-.79	-.99	-1.56	-1.36	-1.20	.36	.41	.43	.45	.45
	35.0	-.73	-.91	-1.42	-1.33	-1.19	.34	.38	.40	.41	.43
	40.0	-.68	-.85	-1.31	-1.28	-1.17	.31	.35	.36	.38	.39
	45.0	-.63	-.79	-1.20	-1.24	-1.15	.29	.32	.33	.35	.35
	50.0	-.58	-.72	-1.10	-1.15	-1.11	.26	.29	.30	.30	.31
	60.0	-.45	-.57	-.88	-1.05	-1.05	.25	.26	.27	.27	.26
	70.0	-.31	-.42	-.70	-.94	-.96	.22	.23	.23	.21	.20
	80.0	-.18	-.29	-.49	-.79	-.86	.21	.21	.20	.17	.14
	90.0	-.07	-.18	-.34	-.64	-.75	.16	.15	.11	.05	-.01
	95.0	-.03	-.14	-.27	-.56	-.70	.12	.10	.05	-.06	-.14
0.555 b/2	0	-9.59	-4.79	-3.72	-2.06	-1.49	- - -	- - -	- - -	- - -	- - -
	1.5	-4.19	-1.83	-1.34	-1.31	-1.14	-.25	.01	.10	.18	.17
	4.0	-2.49	-1.88	-1.33	-1.20	-1.11	.40	.50	.51	.52	.51
	7.0	-2.01	-1.82	-1.33	-1.17	-1.08	.49	.55	.56	.57	.56
	10.0	-1.72	-1.72	-1.29	-1.13	-1.05	.49	.54	.56	.55	.56
	15.0	-1.37	-1.69	-1.26	-1.11	-1.01	.45	.50	.51	.51	.52
	20.0	-1.14	-1.56	-1.21	-1.08	-1.00	.42	.45	.47	.47	.48
	25.0	-.97	-1.52	-1.20	-1.06	-.97	.38	.48	.43	.43	.44
	30.0	-.87	-1.41	-1.17	-1.05	-.96	.36	.38	.39	.39	.40
	35.0	-.79	-1.34	-1.17	-1.05	-.97	.32	.34	.35	.35	.36
	40.0	-.73	-1.26	-1.11	-1.01	-.94	.29	.31	.31	.31	.32
	45.0	-.64	-1.18	-1.10	-1.01	-.94	.26	.28	.28	.28	.29
	50.0	-.58	-1.09	-1.06	-.99	-.92	.24	.25	.25	.24	.25
	60.0	-.41	-.91	-.96	-.96	-.90	.21	.22	.21	.20	.20
	70.0	-.31	-.73	-.87	-.87	-.85	.19	.18	.16	.12	.12
	80.0	-.19	-.54	-.75	-.79	-.79	.17	.15	.11	.07	.06
	90.0	-.11	-.41	-.64	-.70	-.71	.11	.06	-.01	-.08	-.10
	95.0	-.10	-.34	-.58	-.66	-.68	.08	.01	-.11	-.19	-.21

NACA

TABLE XIX.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	26°	Lower surface, Angle of attack 18°	20°	22°	24°	26°
0.707 b/2	0	-10.83	-3.65	-1.21	-1.14	-1.05	- - -	- - -	- - -	- - -	- - -
	1.5	-4.20	-1.18	-1.05	-.99	-.90	-0.33	0.17	0.25	0.24	0.23
	4.0	-2.84	-1.07	-1.07	-.89	-.81	.40	.52	.49	.48	.48
	7.0	-2.07	-1.09	-.97	-.87	-.80	.50	.52	.51	.50	.51
	10.0	-1.67	-1.08	-.91	-.84	-.78	.50	.49	.49	.49	.50
	15.0	-1.29	-1.06	-.90	-.83	-.77	.45	.45	.45	.45	.46
	20.0	-1.14	-1.02	-.86	-.80	-.75	.40	.40	.40	.40	.42
	25.0	-1.01	-.99	-.84	-.79	-.73	.36	.35	.35	.36	.36
	30.0	-.95	-.95	-.83	-.78	-.71	.32	.31	.31	.31	.33
	35.0	-.84	-.95	-.82	-.78	-.72	.29	.27	.27	.28	.29
	40.0	-.77	-.91	-.79	-.76	-.71	.25	.23	.23	.23	.24
	45.0	-.70	-.92	-.80	-.74	-.71	.22	.20	.20	.20	.21
	50.0	-.60	-.88	-.79	-.73	-.71	.19	.17	.17	.16	.17
	60.0	-.41	-.82	-.76	-.72	-.71	.15	.13	.12	.11	.12
	70.0	-.26	-.73	-.72	-.69	-.68	.13	.09	.07	.06	.06
	80.0	-.17	-.65	-.65	-.64	-.64	.11	.04	.02	0	0
	90.0	-.12	-.56	-.58	-.58	-.58	.06	-.05	-.09	-.10	-.11
	95.0	-.12	-.51	-.54	-.55	-.56	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-3.49	-1.06	-.91	-.84	-.76	- - -	- - -	- - -	- - -	- - -
	1.5	-2.12	-.92	-.79	-.76	-.67	.07	.31	.31	.30	.28
	4.0	-1.93	-.91	-.77	-.74	-.68	.49	.47	.47	.47	.47
	7.0	-1.92	-.91	-.78	-.74	-.67	.50	.47	.47	.47	.48
	10.0	-1.78	-.87	-.73	-.68	-.62	.46	.44	.44	.44	.45
	15.0	-1.65	-.83	-.72	-.66	-.61	.40	.38	.39	.40	.40
	20.0	-1.49	-.80	-.69	-.66	-.60	.34	.33	.33	.36	.36
	25.0	-1.37	-.79	-.67	-.64	-.59	.30	.29	.29	.30	.31
	30.0	-1.22	-.77	-.65	-.62	-.57	.25	.24	.24	.25	.26
	35.0	-1.06	-.75	-.64	-.64	-.58	.21	.20	.21	.21	.22
	40.0	-.94	-.73	-.63	-.58	-.58	.17	.16	.16	.16	.18
	45.0	-.81	-.72	-.63	-.59	-.58	.15	.13	.13	.13	.14
	50.0	-.69	-.69	-.62	-.59	-.58	.12	.10	.10	.10	.11
	60.0	-.50	-.65	-.62	-.59	-.59	.09	.06	.05	.05	.06
	70.0	-.38	-.60	-.60	-.58	-.57	.06	.02	.01	0	.01
	80.0	-.29	-.58	-.57	-.55	-.55	.06	-.01	-.02	-.02	-.02
	90.0	-.26	-.52	-.51	-.50	-.50	0	-.10	-.11	-.11	-.11
	95.0	-.23	-.50	-.49	-.49	-.49	- - -	- - -	- - -	- - -	- - -
0.924 b/2	0	-1.65	-1.01	-.91	-.87	-.83	- - -	- - -	- - -	- - -	- - -
	1.5	-1.31	-.77	-.64	-.60	-.56	.22	.30	.33	.30	.28
	4.0	-1.37	-.78	-.67	-.62	-.57	- - -	- - -	- - -	- - -	- - -
	7.0	-1.37	-.79	-.66	-.61	-.56	.38	.38	.39	.39	.40
	10.0	-1.33	-.75	-.62	-.56	-.52	.33	.33	.34	.34	.36
	15.0	-1.27	-.74	-.60	-.54	-.52	.26	.26	.27	.28	.29
	20.0	-1.10	-.68	-.52	-.51	-.48	.17	.19	.19	.20	.20
	25.0	-1.01	-.64	-.52	-.51	-.48	.14	.15	.16	.17	.19
	30.0	-.87	-.57	-.48	-.48	-.48	.09	.10	.10	.10	.12
	35.0	-.79	-.56	-.48	-.48	-.48	.06	.08	.08	.09	.10
	40.0	-.77	-.50	-.46	-.45	-.48	.02	.04	.04	.04	.05
	45.0	-.72	-.50	-.47	-.46	-.48	.02	.02	.02	.02	.03
	50.0	-.72	-.47	-.45	-.45	-.47	0	0	0	0	-.01
	60.0	-.67	-.48	-.47	-.46	-.47	-.01	-.02	-.03	-.03	-.03
	70.0	-.69	-.46	-.46	-.45	-.46	-.03	-.06	-.06	-.06	-.06
	80.0	-.62	-.48	-.46	-.44	-.45	-.03	-.06	-.06	-.06	-.06
	90.0	-.57	-.44	-.42	-.40	-.40	-.08	-.10	-.11	-.11	-.11
	95.0	-.53	-.44	-.41	-.40	-.40	-.15	-.18	-.18	-.18	-.18

TABLE XX.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.60; R, 8,000,000

(a) α_u, -2°, 0°, 2°, 4°, 6°

Spanwise station	Percent chord	Upper Surface, Angle of attack -2°	0°	2°	4°	6°	Lower Surface, Angle of attack -2°	0°	2°	4°	6°
0.086 b/2	0	0.27	0.41	0.49	0.49	0.40	---	---	---	---	---
	1.5	.33	.22	.09	-.04	-.24	-0.49	-0.24	-0.05	0.10	0.26
	4.0	.19	.09	-.02	-.13	-.25	-.26	-.14	-.02	.07	.19
	7.0	.12	.03	-.06	-.15	-.25	-.23	-.13	-.03	.05	.15
	10.0	.08	0	-.09	-.17	-.25	-.21	-.12	-.04	.03	.12
	15.0	.02	-.05	-.13	-.20	-.27	-.18	-.10	-.03	.03	.11
	20.0	-.02	-.09	-.16	-.22	-.30	-.17	-.10	-.04	.02	.10
	25.0	-.05	-.11	-.18	-.24	-.31	-.18	-.11	-.05	0	.07
	30.0	-.08	-.14	-.20	-.26	-.32	-.17	-.11	-.05	0	.06
	35.0	-.11	-.18	-.23	-.29	-.34	-.18	-.13	-.06	-.01	.05
	40.0	-.15	-.20	-.26	-.31	-.36	-.18	-.12	-.07	-.02	.04
	45.0	-.18	-.23	-.28	-.33	-.38	-.17	-.12	-.07	-.03	.03
	50.0	-.19	-.24	-.29	-.34	-.38	-.16	-.12	-.07	-.03	.02
	60.0	-.21	-.25	-.29	-.33	-.36	-.11	-.08	-.04	0	.05
	70.0	-.19	-.23	-.25	-.29	-.30	-.06	-.03	0	.03	.07
	80.0	-.15	-.17	-.20	-.21	-.22	0	.02	.04	.06	.10
	90.0	-.04	-.04	-.05	-.06	-.06	.03	.04	.06	.07	.10
	95.0	.01	.01	.01	0	.01	.05	.05	.06	.07	.09
0.195 b/2	0	.09	.33	.45	.42	.24	---	---	---	---	---
	1.5	.32	.19	.02	-.15	-.42	-.68	-.34	-.09	.10	.27
	4.0	.19	.07	-.07	-.21	-.38	-.37	-.19	-.06	.07	.19
	7.0	.11	0	-.12	-.23	-.37	-.30	-.17	-.07	.03	.14
	10.0	.06	-.03	-.15	-.24	-.36	-.27	-.16	-.07	.02	.12
	15.0	0	-.09	-.18	-.26	-.36	-.23	-.14	-.06	.01	.09
	20.0	-.05	-.13	-.21	-.29	-.38	-.21	-.13	-.06	0	.08
	25.0	-.08	-.16	-.23	-.30	-.38	-.21	-.13	-.07	-.01	.06
	30.0	-.11	-.19	-.25	-.32	-.38	-.19	-.12	-.07	-.01	.05
	35.0	-.15	-.21	-.27	-.33	-.39	-.19	-.12	-.07	-.02	.04
	40.0	-.17	-.23	-.30	-.35	-.40	-.18	-.13	-.08	-.03	.02
	45.0	-.19	-.25	-.31	-.36	-.41	-.17	-.12	-.07	-.03	.02
	50.0	-.21	-.26	-.31	-.36	-.41	-.16	-.11	-.07	-.03	.01
	60.0	-.21	-.25	-.30	-.33	-.37	-.09	-.06	-.03	0	.05
	70.0	-.19	-.21	-.24	-.27	-.30	-.04	0	.01	.04	.06
	80.0	-.13	-.15	-.17	-.18	-.20	.02	.04	.06	.07	.09
	90.0	-.01	-.02	-.04	-.04	-.04	.05	.06	.06	.07	.09
	95.0	.04	.05	.03	.03	.03	.07	.07	.07	.07	.09
0.382 b/2	0	-.10	.25	.43	.41	.16	---	---	---	---	---
	1.5	.33	.20	0	-.21	-.55	-.89	-.47	-.14	.10	.29
	4.0	.20	.07	-.10	-.28	-.51	-.50	-.27	-.09	.07	.21
	7.0	.11	-.02	-.16	-.31	-.48	-.41	-.24	-.10	.02	.14
	10.0	.06	-.05	-.18	-.29	-.45	-.35	-.20	-.09	.02	.12
	15.0	0	-.10	-.21	-.32	-.44	-.28	-.17	-.08	.01	.09
	20.0	-.06	-.15	-.25	-.34	-.45	-.24	-.15	-.08	.01	.08
	25.0	-.10	-.18	-.27	-.35	-.44	-.23	-.15	-.08	-.01	.05
	30.0	-.12	-.20	-.28	-.35	-.43	-.21	-.14	-.08	-.02	.04
	35.0	-.15	-.23	-.30	-.36	-.43	-.19	-.13	-.08	-.02	.03
	40.0	-.18	-.25	-.32	-.37	-.42	-.19	-.13	-.08	-.03	.02
	45.0	-.21	-.27	-.33	-.38	-.42	-.17	-.12	-.08	-.03	.02
	50.0	-.21	-.27	-.32	-.37	-.42	-.15	-.11	-.08	-.03	.01
	60.0	-.20	-.25	-.29	-.32	-.36	-.09	-.05	-.02	.01	.04
	70.0	-.17	-.20	-.23	-.25	-.26	-.03	-.01	.02	.04	.06
	80.0	-.12	-.13	-.15	-.18	-.18	.03	.05	.07	.07	.09
	90.0	-.01	-.01	-.02	-.02	-.03	.06	.08	.08	.09	.10
	95.0	.05	.05	.04	.05	.04	.09	.09	.09	.10	.10
0.555 b/2	0	-.19	.23	.42	.38	.05	---	---	---	---	---
	1.5	.31	.18	-.06	-.30	-.70	-.93	-.58	-.14	.11	.31
	4.0	.23	.08	-.10	-.29	-.56	-.58	-.31	-.12	.06	.21
	7.0	.14	0	-.15	-.32	-.52	-.46	-.27	-.12	.02	.14
	10.0	.08	-.04	-.19	-.32	-.48	-.40	-.24	-.10	.01	.11
	15.0	.01	-.09	-.21	-.33	-.46	-.31	-.19	-.09	0	.09
	20.0	-.04	-.14	-.25	-.35	-.47	-.27	-.17	-.08	0	.07
	25.0	-.08	-.17	-.26	-.35	-.46	-.25	-.16	-.09	-.02	.05
	30.0	-.11	-.20	-.28	-.36	-.45	-.22	-.15	-.08	-.02	.04
	35.0	-.15	-.22	-.31	-.37	-.45	-.21	-.15	-.08	-.03	.02
	40.0	-.18	-.24	-.32	-.37	-.45	-.19	-.14	-.08	-.04	.01
	45.0	-.19	-.26	-.32	-.37	-.43	-.17	-.12	-.08	-.04	.01
	50.0	-.21	-.27	-.32	-.36	-.41	-.15	-.10	-.07	-.03	.01
	60.0	-.19	-.23	-.28	-.31	-.34	-.08	-.04	-.02	.01	.03
	70.0	-.17	-.20	-.22	-.25	-.27	-.02	0	.02	.04	.05
	80.0	-.12	-.13	-.14	-.17	-.17	.05	.06	.07	.07	.09
	90.0	-.01	-.01	-.02	-.03	-.03	.07	.08	.07	.09	.09
	95.0	.05	.05	.05	.05	.05	.10	.10	.10	.11	.10

NACA

TABLE XX.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper Surface, Angle of attack -2°	0°	2°	4°	6°	Lower Surface, Angle of attack -2°	0°	2°	4°	6°
0.707 b/2	0	-0.48	0.11	0.45	0.43	0.07	---	---	---	---	---
	1.5	.37	.26	.04	-.20	-.63	-1.25	-0.74	-0.23	0.04	0.29
	4.0	.26	.13	-.06	-.27	-.56	-.70	-.41	-.17	0	.14
	7.0	.16	.03	-.13	-.30	-.53	-.52	-.32	-.15	-.01	.13
	10.0	.11	-.01	-.16	-.30	-.48	-.44	-.29	-.13	-.02	.10
	15.0	.03	-.08	-.20	-.32	-.47	-.35	-.22	-.10	-.02	.08
	20.0	-.02	-.12	-.23	-.33	-.46	-.28	-.20	-.09	-.03	.07
	25.0	-.07	-.16	-.26	-.35	-.45	-.25	-.18	-.09	-.04	.03
	30.0	-.11	-.19	-.28	-.36	-.45	-.23	-.16	-.09	-.04	.02
	35.0	-.14	-.21	-.30	-.36	-.44	-.21	-.15	-.09	-.04	.01
	40.0	-.16	-.23	-.30	-.36	-.43	-.19	-.14	-.09	-.05	0
	45.0	-.19	-.25	-.31	-.37	-.42	-.17	-.13	-.08	-.04	0
	50.0	-.20	-.25	-.31	-.35	-.42	-.15	-.12	-.07	-.03	0
	60.0	-.18	-.23	-.28	-.30	-.32	-.06	-.04	-.03	0	.02
	70.0	-.17	-.20	-.21	-.24	-.26	0	0	.02	.03	.04
	80.0	-.11	-.13	-.16	-.16	-.16	.05	.04	.07	.07	.08
	90.0	0	-.02	-.02	-.02	-.02	.08	.09	.09	.09	.09
	95.0	.04	.04	.04	.05	.04	---	---	---	---	---
0.831 b/2	0	-.32	.30	.55	.53	.26	---	---	---	---	---
	1.5	.39	.29	.08	-.15	-.59	-1.42	-.88	-.29	-.01	.27
	4.0	.27	.14	-.04	-.24	-.52	-.80	-.46	-.20	-.03	.16
	7.0	.16	.05	-.12	-.28	-.49	-.58	-.36	-.17	-.04	.11
	10.0	.11	0	-.15	-.29	-.47	-.47	-.30	-.15	-.04	.08
	15.0	.04	-.07	-.20	-.30	-.45	-.36	-.25	-.13	-.04	.05
	20.0	-.03	-.12	-.22	-.33	-.45	-.30	-.21	-.12	-.05	.04
	25.0	-.07	-.16	-.24	-.33	-.43	-.27	-.21	-.11	-.06	0
	30.0	-.11	-.19	-.27	-.34	-.42	-.23	-.16	-.10	-.06	0
	35.0	-.15	-.21	-.28	-.34	-.41	-.19	-.15	-.10	-.06	-.01
	40.0	-.17	-.23	-.29	-.35	-.40	-.17	-.13	-.09	-.06	-.02
	45.0	-.19	-.24	-.30	-.35	-.40	-.15	-.11	-.08	-.06	-.03
	50.0	-.21	-.25	-.30	-.34	-.39	-.11	-.10	-.08	-.05	-.03
	60.0	-.19	-.22	-.26	-.29	-.32	-.05	-.04	-.02	-.01	-.02
	70.0	-.15	-.18	-.20	-.21	-.24	0	.01	.02	.01	.01
	80.0	-.11	-.12	-.15	-.15	-.16	.06	.07	.07	.07	.06
	90.0	0	0	0	-.01	-.01	.09	.10	.09	.09	.08
	95.0	.06	.06	.06	.05	.05	---	---	---	---	---
0.924 b/2	0	-1.14	-.56	.15	.39	.37	---	---	---	---	---
	1.5	.37	.29	.10	-.10	-.51	-1.27	-1.16	-.38	-.08	.24
	4.0	.24	.14	-.03	-.21	-.46	---	---	---	---	---
	7.0	.15	.04	-.10	-.24	-.45	-.73	-.39	-.20	-.08	.06
	10.0	.08	-.02	-.13	-.26	-.42	-.52	-.32	-.19	-.08	.02
	15.0	-.01	-.08	-.19	-.28	-.40	-.36	-.24	-.15	-.09	-.01
	20.0	-.07	-.14	-.21	-.28	-.37	-.27	-.21	-.13	-.09	-.04
	25.0	-.10	-.16	-.23	-.29	-.36	-.21	-.17	-.11	-.08	-.05
	30.0	-.14	-.19	-.24	-.29	-.35	-.19	-.14	-.10	-.08	-.06
	35.0	-.15	-.19	-.24	-.29	-.35	-.17	-.13	-.10	-.08	-.06
	40.0	-.17	-.21	-.25	-.29	-.35	-.15	-.11	-.09	-.08	-.06
	45.0	-.18	-.22	-.26	-.29	-.35	-.13	-.09	-.08	-.07	-.06
	50.0	-.18	-.21	-.24	-.27	-.31	-.10	-.06	-.05	-.05	-.06
	60.0	-.16	-.19	-.20	-.23	-.27	-.05	-.02	-.02	-.03	-.04
	70.0	-.12	-.13	-.14	-.16	-.20	0	.03	.02	.01	-.01
	80.0	-.09	-.08	-.09	-.12	-.16	.06	.07	.07	.06	.03
	90.0	.01	.01	.01	-.02	-.05	.07	.09	.09	.07	.05
	95.0	.04	.06	.06	.05	0	.09	.10	.10	.09	.06

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TABLE XX.- CONTINUED

(b) α_u, 8°, 10°, 12°, 14°

Spanwise station	Percent chord	Upper Surface Angle of attack 8°	10°	12°	14°	Lower Surface Angle of attack 8°	10°	12°	14°
0.086 b/2	0	0.22	-0.04	-0.41	-0.84	---	---	---	---
	1.5	-.44	-.67	-.87	-1.14	0.36	0.46	0.52	0.56
	4.0	-.40	-.52	-.71	-.90	.28	.37	.43	.50
	7.0	-.36	-.46	-.60	-.75	.22	.31	.37	.43
	10.0	-.35	-.43	-.57	-.69	.19	.28	.33	.39
	15.0	-.34	-.42	-.53	-.64	.17	.25	.30	.35
	20.0	-.37	-.43	-.53	-.63	.15	.23	.27	.32
	25.0	-.38	-.42	-.51	-.60	.12	.20	.24	.29
	30.0	-.40	-.43	-.52	-.60	.11	.18	.22	.27
	35.0	-.41	-.44	-.53	-.60	.09	.17	.20	.25
	40.0	-.43	-.45	-.54	-.61	.08	.15	.19	.23
	45.0	-.44	-.46	-.54	-.61	.07	.14	.17	.21
	50.0	-.44	-.45	-.53	-.59	.06	.12	.16	.20
	60.0	-.41	-.42	-.48	-.53	.07	.13	.16	.19
	70.0	-.34	-.34	-.39	-.43	.09	.15	.16	.19
	80.0	-.24	-.23	-.27	-.30	.12	.16	.18	.19
	90.0	-.07	-.06	-.08	-.10	.11	.15	.15	.16
	95.0	-.01	.02	0	-.01	.09	.13	.12	.13
0.195 b/2	0	---	-.53	-1.10	-1.68	---	---	---	---
	1.5	---	-1.01	-1.24	-2.01	---	.48	.53	.54
	4.0	---	-.75	-1.01	-1.40	---	.39	.46	.51
	7.0	---	-.65	-.95	-1.09	---	.32	.40	.46
	10.0	---	-.59	-.76	-.96	---	.29	.36	.42
	15.0	---	-.55	-.68	-.83	---	.25	.31	.37
	20.0	---	-.54	-.66	-.77	---	.22	.27	.34
	25.0	---	-.51	-.62	-.71	---	.19	.25	.30
	30.0	---	-.51	-.61	-.69	---	.17	.22	.28
	35.0	---	-.50	-.59	-.67	---	.15	.21	.26
	40.0	---	-.50	-.58	-.66	---	.14	.18	.23
	45.0	---	-.49	-.57	-.63	---	.13	.17	.21
	50.0	---	-.47	-.54	-.59	---	.11	.15	.18
	60.0	---	-.41	-.46	-.50	---	.12	.15	.18
	70.0	---	-.31	-.34	-.37	---	.14	.16	.18
	80.0	---	-.20	-.21	-.23	---	.15	.17	.18
	90.0	---	-.02	-.04	-.06	---	.14	.15	.16
	95.0	---	.03	.02	-.01	---	.12	.12	.12
0.382 b/2	0	---	-.85	-1.35	-1.75	---	---	---	---
	1.5	---	-1.36	-1.68	-1.51	---	.47	.48	.46
	4.0	---	-.99	-1.40	-1.40	---	.41	.46	.48
	7.0	---	-.86	-1.29	-1.32	---	.34	.40	.45
	10.0	---	-.75	-1.07	-1.19	---	.30	.36	.42
	15.0	---	-.67	-.90	-1.12	---	.25	.31	.37
	20.0	---	-.64	-.82	-.98	---	.22	.27	.32
	25.0	---	-.60	-.75	-.91	---	.20	.24	.29
	30.0	---	-.57	-.69	-.83	---	.16	.22	.27
	35.0	---	-.55	-.65	-.78	---	.16	.20	.25
	40.0	---	-.54	-.62	-.73	---	.14	.17	.21
	45.0	---	-.51	-.59	-.68	---	.12	.16	.19
	50.0	---	-.48	-.54	-.61	---	.11	.14	.17
	60.0	---	-.39	-.44	-.48	---	.12	.14	.17
	70.0	---	-.28	-.30	-.34	---	.12	.14	.16
	80.0	---	-.15	-.18	-.22	---	.15	.15	.16
	90.0	---	-.01	-.03	-.10	---	.13	.13	.12
	95.0	---	.05	0	-.04	---	.12	.11	.11
0.555 b/2	0	---	-1.09	-1.39	-1.74	---	---	---	---
	1.5	---	-1.82	-1.45	-1.42	---	.46	.46	.44
	4.0	---	-1.19	-1.35	-1.33	---	.41	.45	.49
	7.0	---	-.96	-1.29	-1.29	---	.36	.41	.44
	10.0	---	-.84	-1.16	-1.22	---	.30	.36	.40
	15.0	---	-.73	-1.04	-1.17	---	.26	.31	.35
	20.0	---	-.68	-.90	-1.05	---	.22	.26	.31
	25.0	---	-.63	-.81	-.97	---	.19	.23	.28
	30.0	---	-.59	-.75	-.86	---	.17	.21	.25
	35.0	---	-.57	-.68	-.78	---	.15	.18	.21
	40.0	---	-.54	-.63	-.70	---	.12	.16	.20
	45.0	---	-.51	-.58	-.64	---	.11	.14	.17
	50.0	---	-.46	-.53	-.58	---	.10	.12	.15
	60.0	---	-.35	-.41	-.46	---	.11	.12	.15
	70.0	---	-.25	-.29	-.32	---	.11	.12	.12
	80.0	---	-.12	-.18	-.21	---	.13	.13	.12
	90.0	---	-.01	-.07	-.14	---	.11	.11	.09
	95.0	---	.04	-.02	-.10	---	.11	.09	.07

TABLE XX.- CONCLUDED
(b) Concluded

Spanwise station	Percent chord	Upper Surface Angle of attack 8°	10°	12°	14°	Lower Surface Angle of attack 8°	10°	12°	14°
0.707 b/2	0	-0.58	-1.17	-1.41	-1.68	---	---	---	---
	1.5	-1.24	-1.68	-1.38	-1.35	0.40	0.45	0.43	0.40
	4.0	-.88	-1.28	-1.30	-1.27	.32	.41	.44	.45
	7.0	-.78	-1.08	-1.22	-1.23	.24	.35	.37	.39
	10.0	-.69	-.89	-1.11	-1.15	.20	.31	.34	.37
	15.0	-.62	-.76	-1.02	-1.09	.15	.26	.29	.30
	20.0	-.59	-.68	-.89	-1.00	.13	.22	.25	.27
	25.0	-.56	-.63	-.81	-.92	.10	.17	.21	.23
	30.0	-.54	-.59	-.73	-.80	.07	.14	.18	.19
	35.0	-.51	-.56	-.66	-.73	.06	.12	.15	.15
	40.0	-.50	-.51	-.60	-.64	.04	.11	.13	.14
	45.0	-.48	-.48	-.54	-.58	.03	.10	.11	.11
	50.0	-.46	-.42	-.47	-.50	.03	.09	.09	.09
	60.0	-.36	-.31	-.35	-.39	.04	.08	.07	.08
	70.0	-.27	-.22	-.25	-.31	.06	.10	.07	.04
	80.0	-.16	-.10	-.18	-.23	.06	.11	.07	.04
	90.0	-.02	.01	-.09	-.18	.08	.11	.07	.03
	95.0	.04	.05	-.05	-.15	---	---	---	---
0.831 b/2	0	-.43	-1.07	-1.67	-2.14	---	---	---	---
	1.5	-1.37	-1.62	-1.51	-1.54	.40	.44	.41	.38
	4.0	-.84	-1.25	-1.33	-1.34	.30	.39	.41	.42
	7.0	-.74	-1.12	-1.26	-1.36	.22	.34	.34	.38
	10.0	-.66	-.89	-1.13	-1.24	.18	.29	.31	.34
	15.0	-.60	-.72	-1.03	-1.21	.14	.21	.24	.28
	20.0	-.57	-.66	-.85	-.99	.09	.18	.19	.22
	25.0	-.54	-.60	-.75	-.87	.06	.15	.17	.18
	30.0	-.51	-.55	-.66	-.72	.05	.12	.13	.14
	35.0	-.49	-.51	-.59	-.63	.02	.10	.10	.10
	40.0	-.47	-.46	-.53	-.54	.01	.07	.07	.07
	45.0	-.45	-.43	-.46	-.49	0	.06	.05	.05
	50.0	-.42	-.40	-.41	-.45	-.01	.05	.03	.02
	60.0	-.33	-.29	-.32	-.37	0	.05	.03	.02
	70.0	-.26	-.20	-.23	-.30	.02	.06	.03	0
	80.0	-.16	-.10	-.17	-.26	.05	.08	.03	0
	90.0	-.03	0	-.11	-.21	.07	.08	.02	-.04
	95.0	.02	.04	-.08	-.20	---	---	---	---
0.924 b/2	0	.02	-.44	-.84	-.99	---	---	---	---
	1.5	-1.17	-1.63	-1.76	-1.42	.36	.41	.38	.35
	4.0	-.76	-1.02	-1.42	-1.28	---	---	---	---
	7.0	-.66	-.83	-1.07	-1.23	.16	.27	.30	.31
	10.0	-.59	-.71	-.94	-1.11	.10	.20	.23	.24
	15.0	-.53	-.61	-.81	-1.01	.06	.13	.16	.17
	20.0	-.47	-.52	-.66	-.78	0	.07	.08	.08
	25.0	-.44	-.49	-.61	-.68	-.01	.03	.04	.03
	30.0	-.43	-.45	-.59	-.58	-.04	0	0	0
	35.0	-.41	-.43	-.49	-.53	-.04	0	-.01	-.01
	40.0	-.40	-.40	-.44	-.50	-.05	-.03	-.05	-.04
	45.0	-.39	-.38	-.42	-.48	-.05	-.03	-.05	-.07
	50.0	-.37	-.36	-.39	-.44	-.05	-.04	-.06	-.07
	60.0	-.30	-.29	-.33	-.40	-.04	-.03	-.05	-.07
	70.0	-.23	-.23	-.28	-.38	-.03	-.03	-.05	-.07
	80.0	-.19	-.15	-.23	-.35	0	.01	-.02	-.06
	90.0	-.13	-.09	-.23	-.35	0	.01	-.03	-.06
	95.0	-.04	-.04	-.19	-.34	.01	.01	-.05	-.12

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TABLE XXI.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.25; R, 12,000,000

(a) α_u, -2°, 0°, 2°, 4°, 6°

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.086 b/2	0	0.20	0.39	0.47	0.48	0.25	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.22	.08	-.11	-.29	-0.43	-0.23	-0.04	0.12	0.26
	4.0	.20	.09	-.03	-.16	-.28	-.25	-.14	-.01	.10	.20
	7.0	.15	.04	-.06	-.17	-.26	-.21	-.12	-.02	.06	.15
	10.0	.08	0	-.08	-.18	-.26	-.19	-.11	-.03	.05	.12
	15.0	.02	-.05	-.11	-.20	-.27	-.15	-.09	-.02	.05	.11
	20.0	-.01	-.08	-.14	-.22	-.28	-.15	-.09	-.02	.04	.09
	25.0	-.03	-.10	-.16	-.23	-.29	-.15	-.09	-.04	.02	.07
	30.0	-.08	-.13	-.19	-.25	-.31	-.14	-.09	-.04	.01	.06
	35.0	-.10	-.16	-.20	-.26	-.32	-.14	-.10	-.04	.01	.05
	40.0	-.13	-.18	-.23	-.28	-.34	-.14	-.10	-.04	0	.04
	45.0	-.16	-.20	-.25	-.30	-.34	-.13	-.10	-.04	-.01	.04
	50.0	-.17	-.21	-.25	-.30	-.34	-.13	-.09	-.04	-.01	.03
	60.0	-.18	-.21	-.25	-.29	-.32	-.08	-.05	-.01	.01	.05
	70.0	-.16	-.19	-.21	-.24	-.27	-.03	-.01	.02	.04	.06
	80.0	-.12	-.14	-.16	-.18	-.20	.01	.03	.06	.07	.09
	90.0	-.02	-.05	-.04	-.06	-.05	.04	.05	.07	.08	.09
	95.0	.02	.02	.02	.01	.01	.06	.06	.07	.08	.09
0.195 b/2	0	.04	.33	.43	.39	.15	- - -	- - -	- - -	- - -	- - -
	1.5	.35	.22	.03	-.22	-.47	-.56	-.29	-.07	.13	.28
	4.0	.20	.08	-.06	-.23	-.39	-.34	-.18	-.04	.09	.20
	7.0	.12	.01	-.10	-.25	-.37	-.28	-.15	-.05	.05	.16
	10.0	.06	-.03	-.12	-.26	-.35	-.24	-.14	-.05	.05	.12
	15.0	.02	-.07	-.16	-.26	-.35	-.20	-.12	-.05	.04	.10
	20.0	-.03	-.11	-.19	-.28	-.35	-.18	-.11	-.05	.02	.08
	25.0	-.06	-.14	-.20	-.28	-.35	-.17	-.11	-.06	.01	.06
	30.0	-.09	-.15	-.21	-.29	-.35	-.16	-.10	-.05	.01	.06
	35.0	-.11	-.17	-.23	-.29	-.35	-.15	-.10	-.05	0	.05
	40.0	-.14	-.19	-.24	-.31	-.35	-.15	-.10	-.06	-.01	.04
	45.0	-.16	-.21	-.25	-.31	-.36	-.13	-.09	-.06	-.01	.04
	50.0	-.18	-.22	-.26	-.32	-.36	-.12	-.09	-.06	-.01	.03
	60.0	-.18	-.21	-.26	-.29	-.32	-.07	-.05	-.01	.02	.05
	70.0	-.15	-.18	-.20	-.23	-.25	-.02	.01	.02	.04	.07
	80.0	-.10	-.12	-.15	-.16	-.17	.04	.05	.06	.08	.10
	90.0	0	-.01	-.03	-.03	-.03	.06	.06	.07	.09	.10
	95.0	.05	.05	.02	.03	.03	.07	.08	.07	.09	.09
0.382 b/2	0	-.16	.27	.44	.39	.07	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.22	.02	-.28	-.59	-.84	-.44	-.13	.12	.30
	4.0	.22	.08	-.08	-.28	-.49	-.44	-.24	-.06	.09	.22
	7.0	.13	.01	-.13	-.29	-.46	-.35	-.20	-.08	.06	.16
	10.0	.08	-.02	-.14	-.28	-.42	-.30	-.18	-.07	.04	.13
	15.0	.02	-.07	-.17	-.29	-.40	-.24	-.14	-.06	.03	.10
	20.0	-.03	-.12	-.20	-.31	-.40	-.21	-.14	-.06	.01	.08
	25.0	-.06	-.14	-.21	-.31	-.39	-.19	-.12	-.06	.01	.07
	30.0	-.09	-.15	-.22	-.31	-.38	-.17	-.11	-.06	0	.06
	35.0	-.11	-.17	-.23	-.31	-.38	-.15	-.10	-.05	0	.05
	40.0	-.14	-.20	-.26	-.32	-.39	-.15	-.10	-.06	-.01	.04
	45.0	-.15	-.21	-.26	-.33	-.38	-.14	-.09	-.06	-.01	.04
	50.0	-.18	-.22	-.27	-.32	-.36	-.12	-.08	-.05	-.01	.02
	60.0	-.17	-.20	-.25	-.28	-.31	-.06	-.03	-.01	.02	.05
	70.0	-.14	-.17	-.20	-.22	-.24	-.01	.01	.02	.05	.07
	80.0	-.10	-.11	-.14	-.15	-.16	.04	.06	.07	.09	.10
	90.0	.01	0	-.02	-.02	-.02	.07	.08	.08	.10	.10
	95.0	.05	.05	.03	.04	.05	.09	.10	.10	.11	.11
0.555 b/2	0	-.27	.22	.43	.37	-.03	- - -	- - -	- - -	- - -	- - -
	1.5	.33	.17	-.06	-.39	-.75	-.89	-.46	-.12	.16	.33
	4.0	.25	.11	-.07	-.29	-.52	-.51	-.27	-.08	.09	.23
	7.0	.15	.04	-.11	-.29	-.48	-.40	-.23	-.08	.06	.17
	10.0	.10	-.01	-.14	-.29	-.47	-.34	-.20	-.09	.03	.13
	15.0	.04	-.06	-.16	-.29	-.42	-.27	-.16	-.07	.03	.11
	20.0	-.01	-.10	-.20	-.31	-.41	-.22	-.14	-.06	.03	.09
	25.0	-.04	-.12	-.20	-.30	-.39	-.20	-.13	-.07	0	.06
	30.0	-.07	-.15	-.22	-.30	-.39	-.18	-.11	-.06	0	.06
	35.0	-.10	-.17	-.24	-.32	-.39	-.17	-.11	-.06	-.01	.04
	40.0	-.12	-.19	-.25	-.32	-.39	-.15	-.10	-.07	-.02	.03
	45.0	-.14	-.20	-.25	-.32	-.38	-.14	-.09	-.06	-.01	.03
	50.0	-.15	-.20	-.25	-.31	-.36	-.12	-.08	-.05	-.01	.03
	60.0	-.14	-.18	-.21	-.26	-.32	-.05	-.03	-.01	.02	.05
	70.0	-.13	-.16	-.19	-.22	-.24	0	.02	.02	.05	.07
	80.0	-.09	-.11	-.13	-.14	-.16	.05	.07	.07	.09	.10
	90.0	0	0	-.02	-.03	-.03	.08	.09	.09	.10	.10
	95.0	.06	.05	.05	.05	.04	.11	.11	.11	.11	.11

TABLE XXI.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.707 b/2	0	-0.65	0.10	0.44	0.42	0.01	- - -	- - -	- - -	- - -	- - -
	1.5	.41	.27	.06	-.24	-.62	-1.05	-0.60	-0.21	0.12	0.33
	4.0	.29	.15	-.02	-.26	-.51	-.61	-.35	-.13	.05	.21
	7.0	.19	.06	-.09	-.28	-.48	-.45	-.27	-.12	.03	.16
	10.0	.14	.02	-.10	-.28	-.44	-.37	-.22	-.10	.02	.13
	15.0	.06	-.03	-.15	-.28	-.41	-.28	-.17	-.08	.01	.11
	20.0	.02	-.08	-.18	-.29	-.40	-.23	-.14	-.07	.01	.08
	25.0	-.03	-.11	-.19	-.30	-.39	-.20	-.13	-.07	0	.06
	30.0	-.06	-.14	-.21	-.31	-.39	-.18	-.12	-.07	-.01	.05
	35.0	-.09	-.16	-.22	-.31	-.38	-.17	-.11	-.07	-.02	.02
	40.0	-.10	-.17	-.22	-.30	-.37	-.14	-.10	-.07	-.02	.02
	45.0	-.15	-.20	-.26	-.31	-.37	-.13	-.09	-.06	-.02	.02
	50.0	-.16	-.20	-.26	-.30	-.35	-.10	-.07	-.05	-.01	.02
	60.0	-.16	-.19	-.23	-.26	-.29	-.05	-.02	-.01	.02	.04
	70.0	-.13	-.14	-.18	-.20	-.22	.02	.03	.03	.05	.06
	80.0	-.09	-.09	-.12	-.14	-.14	.07	.07	.07	.09	.09
	90.0	.01	.01	-.01	-.02	-.02	.10	.11	.09	.11	.10
	95.0	.06	.05	.05	.06	.05	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.57	.26	.54	.50	.13	- - -	- - -	- - -	- - -	- - -
	1.5	.43	.32	.11	-.19	-.57	-1.18	-.67	-.25	.09	.31
	4.0	.31	.17	-.01	-.23	-.46	-.67	-.39	-.17	.02	.18
	7.0	.20	.09	-.07	-.25	-.44	-.48	-.29	-.14	.02	.13
	10.0	.15	.04	-.09	-.25	-.41	-.39	-.24	-.11	.01	.11
	15.0	.07	-.03	-.13	-.26	-.39	-.30	-.19	-.10	-.01	.08
	20.0	.02	-.07	-.16	-.28	-.39	-.24	-.15	-.09	-.01	.06
	25.0	-.02	-.09	-.18	-.28	-.36	-.20	-.14	-.08	-.02	.04
	30.0	-.06	-.13	-.20	-.28	-.36	-.18	-.12	-.08	-.02	.02
	35.0	-.09	-.14	-.21	-.29	-.35	-.14	-.10	-.08	-.03	.01
	40.0	-.13	-.18	-.24	-.29	-.35	-.13	-.09	-.07	-.03	.01
	45.0	-.14	-.19	-.24	-.29	-.34	-.11	-.08	-.06	-.03	0
	50.0	-.16	-.20	-.24	-.29	-.33	-.08	-.05	-.04	-.02	.01
	60.0	-.14	-.18	-.21	-.24	-.27	-.02	-.01	-.01	.01	.02
	70.0	-.11	-.14	-.17	-.18	-.20	.03	.04	.03	.04	.05
	80.0	-.07	-.08	-.10	-.12	-.13	.08	.09	.08	.08	.08
	90.0	.02	.02	.01	0	-.01	.11	.11	.10	.10	.09
	95.0	.07	.06	.06	.06	.05	- - -	- - -	- - -	- - -	- - -
0.924 b/2	0	-1.66	-.53	.15	.42	.39	- - -	- - -	- - -	- - -	- - -
	1.5	.42	.31	.13	-.15	-.49	-1.32	-.78	-.32	.03	.28
	4.0	.29	.17	.02	-.18	-.40	- - -	- - -	- - -	- - -	- - -
	7.0	.20	.10	-.05	-.21	-.39	-.49	-.31	-.17	-.02	.08
	10.0	.12	.06	-.08	-.22	-.36	-.39	-.25	-.14	-.04	.06
	15.0	.06	-.03	-.12	-.23	-.31	-.28	-.19	-.12	-.04	.02
	20.0	-.01	-.07	-.14	-.22	-.30	-.20	-.14	-.10	-.05	0
	25.0	-.06	-.09	-.16	-.24	-.30	-.17	-.12	-.09	-.04	-.01
	30.0	-.07	-.12	-.17	-.24	-.30	-.14	-.10	-.08	-.04	-.03
	35.0	-.09	-.14	-.18	-.23	-.30	-.11	-.08	-.07	-.04	-.03
	40.0	-.13	-.16	-.20	-.25	-.29	-.09	-.07	-.06	-.04	-.04
	45.0	-.14	-.17	-.21	-.25	-.29	-.08	-.05	-.04	-.04	-.03
	50.0	-.14	-.17	-.20	-.24	-.28	-.05	-.04	-.04	-.03	-.03
	60.0	-.12	-.14	-.18	-.20	-.23	0	.01	0	0	-.01
	70.0	-.09	-.10	-.12	-.14	-.18	.04	.06	.03	.02	0
	80.0	-.05	-.05	-.08	-.09	-.12	.09	.10	.08	.07	.05
	90.0	.03	.03	.01	0	-.04	.11	.12	.10	.08	.05
	95.0	.07	.08	.07	.05	.02	.12	.13	.11	.09	.07

TABLE XXI.- CONTINUED

(b) α_u, 8°, 10°, 12°, 14°, 16°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.086 b/2	0	0.07	-0.29	-0.72	-1.40	-2.13	---	---	---	---	---
	1.5	-.52	-.76	-1.01	-1.34	-1.61	0.37	0.46	0.51	0.53	0.53
	4.0	-.45	-.59	-.74	-.92	-1.07	.28	.36	.43	.49	.53
	7.0	-.38	-.50	-.62	-.74	-.84	.22	.30	.37	.43	.48
	10.0	-.36	-.48	-.54	-.66	-.75	.20	.27	.33	.39	.44
	15.0	-.35	-.45	-.51	-.60	-.66	.18	.24	.29	.35	.40
	20.0	-.37	-.45	-.50	-.57	-.62	.16	.21	.27	.32	.37
	25.0	-.33	-.42	-.47	-.54	-.57	.13	.19	.24	.29	.34
	30.0	-.36	-.41	-.47	-.51	-.57	.12	.17	.22	.27	.32
	35.0	-.36	-.41	-.46	-.50	-.54	.10	.16	.21	.25	.30
	40.0	-.38	-.42	-.46	-.50	-.54	.09	.14	.19	.23	.27
	45.0	-.38	-.42	-.46	-.50	-.53	.08	.13	.17	.22	.26
	50.0	-.38	-.41	-.44	-.48	-.51	.07	.12	.16	.21	.25
	60.0	-.35	-.37	-.40	-.42	-.44	.09	.12	.16	.21	.24
	70.0	-.29	-.30	-.32	-.33	-.35	.10	.13	.16	.20	.23
	80.0	-.20	-.21	-.22	-.23	-.24	.12	.15	.17	.20	.23
	90.0	-.05	-.05	-.06	-.07	-.06	.11	.13	.15	.17	.20
	95.0	.01	.01	.01	.02	.03	.10	.12	.13	.15	.17
0.195 b/2	0	-.29	-.89	-1.72	-2.76	-3.90	---	---	---	---	---
	1.5	-.77	-1.12	-1.48	-1.91	-2.32	.40	.47	.49	.48	.43
	4.0	-.59	-.81	-1.02	-1.28	-1.49	.31	.39	.45	.50	.52
	7.0	-.52	-.68	-.82	-1.01	-1.15	.25	.32	.39	.45	.50
	10.0	-.48	-.61	-.73	-.88	-.98	.21	.28	.35	.41	.46
	15.0	-.45	-.55	-.65	-.75	-.82	.18	.24	.30	.36	.41
	20.0	-.44	-.53	-.60	-.69	-.75	.15	.21	.27	.32	.37
	25.0	-.43	-.50	-.56	-.64	-.68	.12	.19	.24	.29	.35
	30.0	-.41	-.49	-.54	-.60	-.64	.11	.17	.22	.27	.32
	35.0	-.41	-.48	-.51	-.56	-.60	.10	.15	.20	.25	.30
	40.0	-.41	-.47	-.50	-.55	-.57	.09	.13	.18	.23	.27
	45.0	-.40	-.46	-.48	-.53	-.54	.08	.12	.17	.21	.26
	50.0	-.39	-.42	-.46	-.49	-.51	.07	.11	.15	.20	.24
	60.0	-.34	-.36	-.39	-.40	-.43	.09	.12	.20	.20	.23
	70.0	-.26	-.28	-.30	-.30	-.31	.10	.13	.16	.20	.22
	80.0	-.17	-.18	-.19	-.19	-.19	.12	.15	.17	.20	.22
	90.0	-.03	-.03	-.03	-.03	-.04	.11	.13	.15	.17	.20
	95.0	.04	.04	.04	.05	.04	.11	.12	.13	.14	.16
0.382 b/2	0	-.54	-1.43	-2.59	-4.06	-5.65	---	---	---	---	---
	1.5	-.90	-1.34	-1.79	-2.36	-2.86	.41	.45	.41	.32	.18
	4.0	-.74	-1.03	-1.32	-1.65	-1.94	.33	.40	.45	.47	.47
	7.0	-.65	-.87	-1.06	-1.30	-1.49	.26	.34	.40	.45	.48
	10.0	-.57	-.74	-.90	-1.08	-1.24	.23	.30	.36	.42	.46
	15.0	-.53	-.66	-.77	-.91	-1.01	.12	.25	.31	.37	.42
	20.0	-.50	-.62	-.69	-.82	-.90	.15	.21	.27	.32	.37
	25.0	-.48	-.57	-.64	-.73	-.80	.13	.20	.24	.30	.34
	30.0	-.45	-.53	-.60	-.67	-.72	.11	.17	.22	.27	.31
	35.0	-.45	-.51	-.57	-.64	-.66	.11	.16	.20	.25	.30
	40.0	-.44	-.50	-.54	-.60	-.63	.08	.13	.17	.22	.26
	45.0	-.43	-.48	-.51	-.56	-.58	.08	.12	.16	.21	.25
	50.0	-.40	-.44	-.48	-.51	-.54	.06	.11	.14	.19	.23
	60.0	-.34	-.36	-.39	-.40	-.41	.08	.12	.14	.18	.21
	70.0	-.25	-.27	-.28	-.28	-.29	.10	.12	.14	.17	.20
	80.0	-.16	-.16	-.16	-.15	-.15	.12	.14	.16	.18	.20
	90.0	-.02	-.02	-.01	-.01	-.02	.12	.13	.14	.15	.16
	95.0	.05	.05	.05	.04	.03	.12	.12	.12	.13	.14
0.555 b/2	0	-.80	-1.88	-3.33	-5.06	-7.11	---	---	---	---	---
	1.5	-1.33	-1.91	-2.53	-3.24	-3.83	.43	.44	.36	.22	.02
	4.0	-.81	-1.14	-1.47	-1.86	-2.18	.34	.41	.45	.46	.47
	7.0	-.68	-.95	-1.16	-1.43	-1.65	.27	.36	.41	.46	.47
	10.0	-.61	-.81	-.99	-1.20	-1.36	.22	.31	.36	.42	.45
	15.0	-.54	-.70	-.83	-.99	-1.11	.19	.26	.31	.37	.41
	20.0	-.52	-.65	-.75	-.88	-.97	.16	.22	.27	.33	.38
	25.0	-.48	-.59	-.67	-.78	-.84	.12	.19	.24	.29	.34
	30.0	-.47	-.55	-.63	-.72	-.77	.11	.17	.21	.26	.31
	35.0	-.47	-.54	-.60	-.67	-.71	.10	.15	.19	.24	.28
	40.0	-.45	-.52	-.56	-.63	-.65	.08	.12	.16	.21	.25
	45.0	-.43	-.49	-.52	-.58	-.59	.07	.11	.15	.19	.22
	50.0	-.41	-.46	-.48	-.53	-.53	.06	.10	.13	.17	.21
	60.0	-.32	-.36	-.37	-.39	-.39	.07	.11	.13	.16	.20
	70.0	-.25	-.27	-.28	-.28	-.27	.08	.11	.13	.15	.17
	80.0	-.16	-.16	-.16	-.15	-.14	.11	.13	.14	.15	.17
	90.0	-.03	-.02	-.02	-.02	-.03	.11	.12	.11	.12	.13
	95.0	.05	.05	.04	.03	.01	.12	.13	.12	.12	.11

NACA

TABLE XXI.- CONTINUED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.707 b/2	0	-0.86	-2.10	-3.79	-5.96	-8.25	---	---	---	---	---
	1.5	-1.06	-1.62	-2.22	-2.91	-3.51	0.43	0.44	0.44	0.16	-0.10
	4.0	-.81	-1.17	-1.52	-1.94	-2.28	.34	.41	.45	.44	.41
	7.0	-.70	-.96	-1.21	-1.51	-1.74	.26	.35	.40	.44	.46
	10.0	-.61	-.81	-1.02	-1.25	-1.45	.22	.30	.36	.41	.43
	15.0	-.55	-.72	-.86	-1.02	-1.15	.18	.25	.30	.36	.39
	20.0	-.52	-.65	-.76	-.90	-.98	.16	.21	.27	.31	.35
	25.0	-.48	-.61	-.69	-.81	-.87	.11	.17	.23	.27	.31
	30.0	-.47	-.57	-.64	-.73	-.78	.10	.15	.20	.25	.27
	35.0	-.46	-.54	-.60	-.67	-.71	.08	.12	.17	.21	.24
	40.0	-.43	-.51	-.54	-.62	-.64	.06	.11	.14	.17	.21
	45.0	-.43	-.47	-.52	-.56	-.60	.06	.09	.12	.16	.18
	50.0	-.40	-.44	-.48	-.51	-.54	.05	.08	.11	.14	.16
	60.0	-.33	-.36	-.38	-.39	-.40	.06	.08	.11	.12	.14
	70.0	-.24	-.25	-.26	-.26	-.26	.07	.09	.11	.11	.12
	80.0	-.15	-.15	-.15	-.14	-.13	.10	.11	.12	.11	.11
	90.0	-.02	-.03	-.02	-.02	-.04	.11	.11	.11	.10	.09
	95.0	.05	.05	.05	.02	-.02	---	---	---	---	---
0.831 b/2	0	-.76	-2.07	-3.79	-6.02	-8.39	---	---	---	---	---
	1.5	-.96	-1.52	-2.11	-2.82	-3.44	.42	.43	.45	.15	.10
	4.0	-.76	-1.10	-1.45	-1.85	-2.20	.32	.39	.43	.44	.40
	7.0	-.65	-.92	-1.16	-1.44	-1.66	.25	.32	.39	.42	.43
	10.0	-.60	-.80	-.99	-1.21	-1.38	.21	.28	.35	.39	.42
	15.0	-.53	-.68	-.82	-.98	-1.11	.15	.22	.28	.32	.36
	20.0	-.50	-.63	-.74	-.87	-.95	.11	.18	.23	.27	.31
	25.0	-.47	-.57	-.66	-.76	-.82	.10	.15	.19	.24	.27
	30.0	-.45	-.53	-.60	-.68	-.74	.07	.11	.16	.19	.21
	35.0	-.43	-.50	-.56	-.63	-.67	.06	.10	.13	.16	.19
	40.0	-.41	-.47	-.53	-.58	-.63	.04	.07	.11	.13	.15
	45.0	-.40	-.45	-.50	-.54	-.57	.03	.06	.08	.11	.12
	50.0	-.38	-.41	-.45	-.50	-.52	.02	.05	.07	.09	.10
	60.0	-.30	-.33	-.35	-.38	-.38	.04	.05	.06	.07	.07
	70.0	-.23	-.24	-.26	-.28	-.26	.05	.06	.06	.06	.07
	80.0	-.15	-.15	-.16	-.16	-.14	.08	.08	.06	.07	.07
	90.0	-.03	-.03	-.04	-.04	-.08	.09	.07	.07	.06	.04
	95.0	.05	.04	.02	.01	-.04	---	---	---	---	---
0.924 b/2	0	-.02	-.84	-2.03	-3.62	-5.32	---	---	---	---	---
	1.5	-.86	-1.39	-1.96	-2.62	-3.20	.42	.43	.46	.18	-.09
	4.0	-.65	-.96	-1.23	-1.64	-1.94	---	---	---	---	---
	7.0	-.56	-.80	-1.03	-1.14	-1.45	.20	.27	.33	.37	.38
	10.0	-.50	-.68	-.86	-1.04	-1.20	.14	.21	.26	.31	.33
	15.0	-.45	-.59	-.71	-.85	-.96	.08	.14	.19	.22	.26
	20.0	-.41	-.51	-.60	-.72	-.80	.04	.08	.11	.13	.15
	25.0	-.39	-.48	-.55	-.66	-.71	.03	.05	.08	.10	.12
	30.0	-.36	-.45	-.50	-.60	-.66	0	.02	.04	.05	.06
	35.0	-.35	-.42	-.49	-.55	-.62	0	.01	.02	.04	.04
	40.0	-.35	-.40	-.48	-.54	-.61	-.03	-.01	-.01	-.01	-.01
	45.0	-.34	-.40	-.46	-.52	-.58	-.03	-.01	-.01	-.01	-.01
	50.0	-.32	-.38	-.44	-.50	-.56	-.03	-.03	-.03	-.03	-.04
	60.0	-.26	-.30	-.36	-.42	-.46	-.01	-.02	-.03	-.03	-.04
	70.0	-.21	-.26	-.32	-.37	-.41	-.01	-.02	-.04	-.05	-.07
	80.0	-.15	-.20	-.26	-.30	-.32	.03	.01	0	-.02	-.04
	90.0	-.08	-.14	-.19	-.24	-.33	.04	.01	-.01	-.03	-.06
	95.0	-.01	-.05	-.10	-.16	-.27	.06	.02	-.01	-.05	-.08

TABLE XXI.- CONTINUED

(c) α_u, 18°, 20°, 22°, 24°, 26°

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	26°	Lower surface, Angle of attack 18°	20°	22°	24°	26°
0.086 b/2	0	-3.04	-3.99	-5.13	-6.25	-7.17	---	---	---	---	---
	1.5	-1.96	-2.31	-2.61	-3.02	-3.26	0.50	0.46	0.38	0.31	0.25
	4.0	-1.26	-1.46	-1.66	-1.84	-1.91	.56	.59	.61	.62	.65
	7.0	-.98	-1.12	-1.25	-1.36	-1.44	.52	.57	.61	.65	.68
	10.0	-.85	-.96	-1.07	-1.17	-1.29	.49	.54	.58	.63	.67
	15.0	-.75	-.82	-.91	-1.01	-1.14	.44	.49	.54	.59	.62
	20.0	-.68	-.76	-.84	-.96	-1.12	.42	.46	.51	.55	.59
	25.0	-.63	-.70	-.77	-.89	-1.04	.39	.43	.47	.51	.54
	30.0	-.62	-.68	-.75	-.89	-1.02	.36	.41	.45	.49	.52
	35.0	-.60	-.65	-.74	-.86	-.99	.35	.39	.42	.46	.48
	40.0	-.59	-.64	-.74	-.86	-.98	.32	.36	.40	.42	.46
	45.0	-.58	-.63	-.72	-.85	-.96	.30	.35	.37	.41	.43
	50.0	-.54	-.59	-.70	-.83	-.93	.28	.32	.36	.37	.40
	60.0	-.46	-.52	-.63	-.75	-.87	.27	.31	.33	.36	.37
	70.0	-.37	-.42	-.52	-.65	-.78	.26	.29	.31	.32	.33
	80.0	-.25	-.30	-.39	-.49	-.63	.26	.27	.28	.30	.29
	90.0	-.07	-.11	-.18	-.25	-.38	.22	.23	.23	.22	.21
	95.0	.02	-.01	-.06	-.13	-.24	.19	.19	.17	.16	.14
0.195 b/2	0	-5.39	-6.99	-8.85	-9.54	-6.50	---	---	---	---	---
	1.5	-2.81	-3.38	-4.02	-3.74	-2.22	.33	.22	.08	.04	.13
	4.0	-1.76	-2.04	-2.33	-3.24	-2.10	.54	.54	.54	.58	.61
	7.0	-1.33	-1.52	-1.73	-2.55	-2.08	.54	.57	.61	.66	.69
	10.0	-1.13	-1.29	-1.44	-2.30	-1.97	.50	.55	.60	.65	.67
	15.0	-.93	-1.05	-1.19	-1.72	-1.88	.46	.52	.57	.60	.64
	20.0	-.84	-.94	-1.08	-1.51	-1.73	.43	.48	.53	.56	.60
	25.0	-.75	-.84	-.99	-1.21	-1.60	.40	.45	.50	.53	.56
	30.0	-.70	-.78	-.95	-1.11	-1.47	.37	.42	.47	.50	.52
	35.0	-.65	-.74	-.90	-.98	-1.35	.35	.39	.43	.46	.49
	40.0	-.62	-.73	-.86	-.95	-1.27	.32	.37	.40	.42	.45
	45.0	-.59	-.66	-.81	-.89	-1.17	.30	.34	.38	.40	.42
	50.0	-.56	-.63	-.76	-.85	-1.13	.28	.32	.35	.37	.39
	60.0	-.45	-.52	-.64	-.74	-.97	.27	.30	.32	.34	.35
	70.0	-.34	-.40	-.50	-.60	-.83	.26	.28	.29	.30	.30
	80.0	-.20	-.26	-.35	-.44	-.65	.25	.26	.27	.27	.26
	90.0	-.04	-.09	-.17	-.26	-.44	.21	.21	.21	.19	.15
	95.0	.03	-.01	-.08	-.18	-.34	.17	.17	.15	.11	.06
0.382 b/2	0	-7.75	-9.94	-5.83	-4.56	-4.14	---	---	---	---	---
	1.5	-3.48	-4.10	-2.81	-1.58	-1.36	-.04	-.25	-.04	.02	.01
	4.0	-2.30	-2.65	-2.16	-1.57	-1.33	.44	.42	.51	.51	.51
	7.0	-1.75	-2.00	-2.14	-1.55	-1.32	.50	.54	.59	.60	.60
	10.0	-1.44	-1.65	-2.03	-1.49	-1.29	.50	.55	.58	.59	.60
	15.0	-1.16	-1.34	-2.01	-1.49	-1.26	.46	.51	.55	.56	.58
	20.0	-1.01	-1.20	-1.85	-1.45	-1.26	.41	.47	.50	.51	.53
	25.0	-.89	-1.07	-1.73	-1.43	-1.25	.39	.45	.47	.49	.51
	30.0	-.80	-1.00	-1.59	-1.38	-1.24	.36	.41	.43	.45	.46
	35.0	-.73	-.93	-1.46	-1.38	-1.24	.34	.39	.40	.42	.44
	40.0	-.68	-.88	-1.35	-1.30	-1.18	.31	.35	.36	.37	.39
	45.0	-.63	-.80	-1.22	-1.26	-1.17	.29	.32	.34	.35	.36
	50.0	-.58	-.74	-1.13	-1.21	-1.14	.28	.29	.30	.31	.32
	60.0	-.45	-.58	-.89	-1.10	-1.09	.25	.26	.27	.27	.27
	70.0	-.30	-.43	-.69	-.96	-1.00	.23	.23	.23	.22	.21
	80.0	-.17	-.28	-.47	-.80	-.90	.22	.22	.21	.18	.15
	90.0	-.05	-.17	-.32	-.63	-.77	.17	.15	.12	.05	.01
	95.0	-.01	-.13	-.24	-.54	-.71	.13	.10	.06	-.04	-.14
0.555 b/2	0	-9.79	-5.40	-3.71	-3.39	-3.26	---	---	---	---	---
	1.5	-4.51	-2.10	-1.37	-1.22	-1.12	-.27	-.03	.08	.06	.04
	4.0	-2.57	-1.98	-1.31	-1.13	-1.06	.40	.49	.50	.49	.49
	7.0	-1.96	-1.96	-1.31	-1.13	-1.06	.48	.56	.55	.55	.56
	10.0	-1.62	-1.88	-1.29	-1.11	-1.05	.48	.54	.54	.55	.56
	15.0	-1.30	-1.83	-1.26	-1.10	-1.04	.45	.50	.50	.51	.54
	20.0	-1.11	-1.68	-1.20	-1.06	-1.01	.42	.46	.46	.48	.50
	25.0	-.97	-1.60	-1.20	-1.05	-.99	.38	.42	.42	.43	.45
	30.0	-.87	-1.48	-1.16	-1.03	-.97	.35	.38	.39	.39	.41
	35.0	-.80	-1.39	-1.16	-1.02	-.96	.32	.35	.35	.36	.38
	40.0	-.73	-1.29	-1.12	-1.00	-.95	.29	.30	.31	.32	.34
	45.0	-.66	-1.17	-1.11	-1.00	-.95	.27	.28	.28	.29	.30
	50.0	-.58	-1.07	-1.07	-.98	-.92	.25	.25	.25	.25	.26
	60.0	-.42	-.85	-1.01	-.97	-.91	.22	.22	.21	.21	.20
	70.0	-.30	-.69	-.91	-.90	-.87	.19	.18	.15	.13	.13
	80.0	-.17	-.47	-.79	-.82	-.81	.17	.15	.10	.07	.06
	90.0	-.10	-.35	-.67	-.74	-.73	.12	.07	-.02	-.07	-.09
	95.0	-.07	-.29	-.60	-.69	-.70	.10	.03	-.11	-.19	-.20

NACA

TABLE XXI.- CONCLUDED
(c) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 18°	20°	22°	24°	26°	Lower surface, Angle of attack 18°	20°	22°	24°	26°
0.707 b/2	0	-10.79	-3.27	-2.92	-2.53	-1.68	- - -	- - -	- - -	- - -	- - -
	1.5	-4.34	-1.13	-.99	-.89	-.85	-0.64	0.13	0.15	0.14	0.15
	4.0	-3.69	-1.17	-.91	-.81	-.80	.39	.48	.49	.48	.47
	7.0	-2.17	-1.15	-.90	-.81	-.78	.48	.50	.51	.58	.51
	10.0	-1.77	-1.15	-.89	-.81	-.78	.48	.48	.49	.50	.51
	15.0	-1.24	-1.08	-.88	-.81	-.77	.45	.44	.45	.45	.47
	20.0	-1.09	-1.03	-.85	-.78	-.75	.41	.40	.41	.41	.42
	25.0	-.93	-1.03	-.84	-.77	-.73	.37	.36	.36	.36	.38
	30.0	-.85	-.99	-.82	-.75	-.71	.32	.30	.32	.31	.33
	35.0	-.76	-.99	-.82	-.75	-.71	.28	.26	.28	.28	.29
	40.0	-.69	-.97	-.79	-.73	-.70	.26	.23	.23	.23	.25
	45.0	-.64	-.97	-.80	-.74	-.73	.22	.21	.20	.20	.21
	50.0	-.56	-.93	-.79	-.74	-.73	.20	.17	.16	.15	.17
	60.0	-.40	-.88	-.78	-.74	-.73	.16	.12	.11	.10	.12
	70.0	-.25	-.78	-.73	-.71	-.69	.14	.09	.06	.06	.06
	80.0	-.11	-.69	-.68	-.67	-.65	.12	.05	.01	0	0
	90.0	-.07	-.59	-.61	-.59	-.59	.09	-.05	-.10	-.10	-.11
	95.0	-.04	-.54	-.57	-.56	-.56	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-6.87	-2.58	-2.31	-1.76	-1.03	- - -	- - -	- - -	- - -	- - -
	1.5	-2.92	-.95	-.78	-.70	-.67	-.21	.19	.19	.20	.21
	4.0	-2.67	-.88	-.74	-.68	-.63	.42	.46	.47	.46	.46
	7.0	-2.62	-.90	-.74	-.68	-.63	.48	.47	.47	.47	.49
	10.0	-2.34	-.89	-.73	-.66	-.61	.46	.44	.44	.44	.45
	15.0	-2.03	-.86	-.72	-.65	-.61	.41	.39	.40	.40	.41
	20.0	-1.74	-.81	-.68	-.61	-.60	.36	.34	.34	.35	.36
	25.0	-1.40	-.79	-.66	-.61	-.60	.31	.29	.30	.30	.31
	30.0	-1.21	-.76	-.64	-.59	-.57	.26	.25	.26	.25	.26
	35.0	-.95	-.75	-.64	-.59	-.57	.22	.20	.21	.20	.22
	40.0	-.85	-.74	-.62	-.59	-.59	.18	.16	.16	.17	.18
	45.0	-.69	-.74	-.62	-.60	-.59	.16	.13	.12	.12	.15
	50.0	-.60	-.71	-.61	-.60	-.59	.12	.10	.10	.10	.11
	60.0	-.40	-.69	-.62	-.60	-.60	.11	.06	.06	.05	.06
	70.0	-.27	-.64	-.60	-.59	-.58	.08	.02	.01	0	.01
	80.0	-.16	-.62	-.59	-.56	-.54	.07	-.01	-.02	-.03	-.02
	90.0	-.09	-.55	-.52	-.51	-.50	.05	-.12	-.11	-.11	-.11
	95.0	-.07	-.53	-.50	-.49	-.48	- - -	- - -	- - -	- - -	- - -
0.924 b/2	0	-3.52	-1.65	-1.31	-1.19	-1.15	- - -	- - -	- - -	- - -	- - -
	1.5	-1.68	-.70	-.61	-.56	-.54	0	.22	.25	.26	.23
	4.0	-1.61	-.67	-.57	-.53	-.51	- - -	- - -	- - -	- - -	- - -
	7.0	-1.60	-.69	-.59	-.53	-.51	.41	.40	.40	.40	.41
	10.0	-1.48	-.69	-.56	-.52	-.49	.36	.34	.34	.35	.36
	15.0	-1.42	-.68	-.56	-.52	-.50	.28	.27	.28	.28	.30
	20.0	-1.29	-.63	-.53	-.49	-.49	.19	.19	.19	.20	.21
	25.0	-1.24	-.61	-.53	-.49	-.48	.15	.15	.16	.16	.18
	30.0	-1.16	-.57	-.49	-.48	-.47	.09	.10	.11	.11	.12
	35.0	-1.10	-.54	-.50	-.47	-.47	.07	.08	.09	.09	.10
	40.0	-1.11	-.51	-.46	-.46	-.49	.03	.04	.04	.04	.05
	45.0	-1.05	-.53	-.47	-.47	-.49	.03	.02	.02	.02	.03
	50.0	-1.08	-.49	-.45	-.46	-.48	0	0	0	-.01	0
	60.0	-.93	-.50	-.47	-.48	-.49	0	-.04	-.03	-.04	-.03
	70.0	-.96	-.49	-.45	-.46	-.46	-.04	-.06	-.05	-.08	-.07
	80.0	-.76	-.50	-.45	-.45	-.45	0	-.06	-.05	-.08	-.07
	90.0	-.67	-.46	-.42	-.42	-.42	-.04	-.11	-.10	-.11	-.11
	95.0	-.54	-.45	-.41	-.41	-.40	-.11	-.19	-.17	-.19	-.18

TABLE XXII.- PRESSURE COEFFICIENTS AT SEVEN SPANWISE STATIONS OF THE WING. M_o, 0.25; R, 18,000,000

(a) α_u, -2°, 0°, 2°, 4°, 6°

Spanwise station	Percent chord	Upper Surface, Angle of attack -2°	0°	2°	4°	6°	Lower Surface, Angle of attack -2°	0°	2°	4°	6°
0.086 b/2	0	0.20	0.38	0.47	0.42	0.35	- - -	- - -	- - -	- - -	- - -
	1.5	.32	.23	.08	-.08	-.26	-0.44	-0.22	-0.03	0.13	0.26
	4.0	.19	.08	-.02	-.14	-.27	-.27	-.14	-.01	.10	.20
	7.0	.12	.03	-.06	-.15	-.26	-.22	-.12	-.02	.06	.15
	10.0	.07	0	-.08	-.16	-.25	-.20	-.11	-.03	.05	.12
	15.0	.02	-.05	-.13	-.19	-.26	-.16	-.09	-.02	.05	.11
	20.0	-.02	-.08	-.15	-.21	-.28	-.15	-.09	-.03	.04	.09
	25.0	-.04	-.10	-.16	-.22	-.28	-.15	-.10	-.04	.01	.07
	30.0	-.07	-.13	-.19	-.25	-.30	-.15	-.10	-.04	.01	.06
	35.0	-.10	-.15	-.21	-.26	-.31	-.15	-.10	-.04	.01	.05
	40.0	-.13	-.18	-.23	-.28	-.33	-.15	-.10	-.05	0	.04
	45.0	-.16	-.21	-.25	-.30	-.34	-.14	-.10	-.05	0	.04
	50.0	-.17	-.22	-.25	-.30	-.34	-.13	-.09	-.05	-.01	.03
	60.0	-.18	-.22	-.25	-.29	-.32	-.08	-.05	-.02	.01	.05
	70.0	-.16	-.19	-.22	-.24	-.26	-.04	-.01	.02	.04	.07
	80.0	-.12	-.15	-.16	-.18	-.20	.01	.03	.05	.07	.09
	90.0	-.02	-.03	-.04	-.04	-.05	.04	.05	.07	.08	.09
	95.0	.02	.02	.01	.01	.01	.06	.06	.07	.08	.09
0.195 b/2	0	.04	.32	.43	.39	.18	- - -	- - -	- - -	- - -	- - -
	1.5	.34	.21	.02	-.19	-.43	-.57	-.30	-.05	.14	.29
	4.0	.19	.08	-.06	-.21	-.37	-.35	-.18	-.04	.10	.21
	7.0	.11	.01	-.11	-.22	-.36	-.28	-.15	-.04	.07	.16
	10.0	.05	-.03	-.13	-.23	-.34	-.25	-.15	-.05	.04	.12
	15.0	0	-.08	-.16	-.25	-.33	-.20	-.12	-.04	.03	.10
	20.0	-.04	-.11	-.19	-.26	-.34	-.18	-.11	-.04	.02	.09
	25.0	-.07	-.14	-.21	-.27	-.34	-.18	-.11	-.05	.01	.07
	30.0	-.11	-.16	-.22	-.27	-.34	-.16	-.10	-.05	.01	.06
	35.0	-.12	-.18	-.24	-.29	-.34	-.15	-.10	-.05	0	.05
	40.0	-.14	-.19	-.25	-.29	-.35	-.15	-.10	-.06	-.01	.04
	45.0	-.17	-.22	-.27	-.30	-.35	-.13	-.09	-.05	-.01	.04
	50.0	-.18	-.23	-.27	-.32	-.35	-.12	-.09	-.05	-.01	.03
	60.0	-.18	-.21	-.25	-.28	-.31	-.07	-.04	-.01	.02	.05
	70.0	-.15	-.18	-.20	-.23	-.25	-.02	0	.02	.05	.07
	80.0	-.10	-.12	-.14	-.15	-.16	.02	.05	.06	.08	.10
	90.0	0	-.01	-.02	-.02	-.02	.06	.07	.08	.09	.10
	95.0	.05	.04	.04	.04	.04	.07	.08	.08	.09	.10
0.382 b/2	0	-.17	.27	.44	.40	.09	- - -	- - -	- - -	- - -	- - -
	1.5	.36	.23	.03	-.21	-.51	-.86	-.47	-.14	.12	.30
	4.0	.21	.08	-.08	-.26	-.48	-.45	-.25	-.06	.10	.22
	7.0	.12	.01	-.14	-.28	-.45	-.36	-.21	-.07	.06	.16
	10.0	.07	-.03	-.15	-.27	-.40	-.30	-.18	-.07	.04	.13
	15.0	.01	-.08	-.18	-.27	-.39	-.24	-.15	-.06	.03	.10
	20.0	-.04	-.13	-.21	-.29	-.39	-.21	-.14	-.06	.01	.08
	25.0	-.07	-.14	-.23	-.29	-.38	-.19	-.12	-.06	.01	.07
	30.0	-.09	-.16	-.23	-.29	-.36	-.17	-.11	-.06	0	.05
	35.0	-.12	-.18	-.25	-.30	-.36	-.15	-.10	-.05	0	.05
	40.0	-.15	-.20	-.26	-.31	-.36	-.15	-.10	-.06	-.01	.04
	45.0	-.17	-.22	-.27	-.31	-.36	-.13	-.09	-.05	-.01	.03
	50.0	-.18	-.23	-.27	-.31	-.36	-.12	-.08	-.05	-.01	.03
	60.0	-.17	-.21	-.25	-.28	-.30	-.06	-.03	-.01	.02	.05
	70.0	-.14	-.17	-.20	-.21	-.24	-.01	.01	.02	.05	.07
	80.0	-.10	-.11	-.14	-.14	-.15	.04	.06	.07	.09	.10
	90.0	0	0	-.01	-.02	-.02	.07	.08	.09	.10	.11
	95.0	.05	.05	.05	.04	.05	.09	.10	.10	.11	.11
0.555 b/2	0	-.29	.23	.43	.38	0	- - -	- - -	- - -	- - -	- - -
	1.5	.31	.16	-.08	-.40	-.80	-.92	-.48	-.12	.16	.34
	4.0	.24	.11	-.07	-.27	-.51	-.52	-.28	-.08	.10	.23
	7.0	.15	.02	-.13	-.28	-.46	-.40	-.23	-.08	.06	.17
	10.0	.09	-.02	-.15	-.28	-.43	-.34	-.21	-.08	.03	.13
	15.0	.03	-.06	-.18	-.28	-.40	-.27	-.16	-.07	.02	.11
	20.0	-.01	-.11	-.20	-.29	-.40	-.22	-.14	-.06	.02	.09
	25.0	-.05	-.13	-.21	-.29	-.38	-.21	-.13	-.07	0	.06
	30.0	-.08	-.15	-.23	-.30	-.37	-.18	-.12	-.06	0	.06
	35.0	-.11	-.18	-.25	-.31	-.37	-.17	-.11	-.06	0	.05
	40.0	-.13	-.19	-.26	-.31	-.37	-.15	-.11	-.06	-.01	.03
	45.0	-.15	-.21	-.26	-.31	-.36	-.14	-.10	-.05	-.01	.03
	50.0	-.16	-.21	-.26	-.30	-.35	-.12	-.08	-.05	-.01	.03
	60.0	-.15	-.19	-.23	-.25	-.28	-.05	-.03	-.01	.02	.05
	70.0	-.13	-.16	-.19	-.21	-.24	0	.01	.03	.05	.07
	80.0	-.09	-.11	-.13	-.14	-.15	.05	.06	.07	.09	.10
	90.0	0	0	-.02	-.02	-.02	.08	.09	.09	.10	.10
	95.0	.06	.05	.04	.05	.05	.10	.11	.11	.11	.11

NACA

TABLE XXII.- CONTINUED
(a) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack -2°	0°	2°	4°	6°	Lower surface, Angle of attack -2°	0°	2°	4°	6°
0.707 b/2	0	-0.65	0.10	0.44	0.42	0.03	- - -	- - -	- - -	- - -	- - -
	1.5	.39	.27	.06	-.23	-.59	-1.08	-0.57	-0.16	0.12	0.34
	4.0	.28	.14	-.04	-.25	-.50	-.63	-.36	-.13	.05	.21
	7.0	.18	.05	-.10	-.27	-.46	-.46	-.28	-.12	.04	.15
	10.0	.13	.02	-.12	-.26	-.41	-.38	-.23	-.11	.02	.12
	15.0	.05	-.05	-.16	-.27	-.40	-.29	-.18	-.09	.01	.10
	20.0	0	-.09	-.19	-.29	-.39	-.23	-.15	-.08	.01	.08
	25.0	-.04	-.12	-.21	-.29	-.38	-.21	-.14	-.08	-.01	.05
	30.0	-.07	-.15	-.23	-.29	-.37	-.19	-.13	-.08	-.01	.04
	35.0	-.10	-.17	-.24	-.30	-.37	-.17	-.12	-.08	-.02	.02
	40.0	-.12	-.18	-.24	-.30	-.36	-.15	-.11	-.07	-.02	.01
	45.0	-.15	-.20	-.26	-.31	-.37	-.14	-.10	-.07	-.02	.01
	50.0	-.16	-.21	-.26	-.30	-.36	-.11	-.07	-.05	-.02	.01
	60.0	-.16	-.19	-.24	-.27	-.31	-.05	-.04	-.01	0	.03
	70.0	-.12	-.15	-.19	-.20	-.23	.01	.01	.03	.05	.05
	80.0	-.08	-.11	-.13	-.14	-.15	.07	.07	.07	.08	.08
	90.0	0	-.01	-.02	-.02	-.04	.09	.10	.09	.09	.10
	95.0	.05	.06	.05	.04	.03	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.57	.24	.53	.50	.16	- - -	- - -	- - -	- - -	- - -
	1.5	.42	.31	.11	-.17	-.51	-1.19	-.64	-.21	.08	.32
	4.0	.29	.17	-.01	-.21	-.45	-.68	-.41	-.17	.02	.18
	7.0	.20	.07	-.07	-.22	-.42	-.50	-.30	-.14	.01	.13
	10.0	.13	.02	-.10	-.24	-.40	-.40	-.25	-.12	0	.10
	15.0	.06	-.03	-.15	-.25	-.37	-.31	-.20	-.11	-.01	.07
	20.0	0	-.08	-.18	-.27	-.37	-.25	-.16	-.09	-.02	.05
	25.0	-.03	-.11	-.20	-.27	-.35	-.21	-.14	-.09	-.03	.03
	30.0	-.07	-.14	-.21	-.27	-.35	-.18	-.13	-.08	-.03	.02
	35.0	-.10	-.16	-.22	-.27	-.34	-.16	-.11	-.08	-.03	.01
	40.0	-.13	-.19	-.25	-.30	-.36	-.13	-.10	-.07	-.03	0
	45.0	-.15	-.20	-.25	-.29	-.35	-.11	-.08	-.06	-.03	-.01
	50.0	-.16	-.21	-.25	-.29	-.34	-.09	-.06	-.05	-.03	0
	60.0	-.15	-.18	-.21	-.25	-.28	-.04	-.01	-.01	.01	.01
	70.0	-.12	-.15	-.17	-.19	-.21	.02	.04	.03	.04	.04
	80.0	-.09	-.10	-.11	-.12	-.14	.08	.09	.08	.08	.08
	90.0	.01	.01	-.01	0	-.01	.10	.10	.09	.10	.08
	95.0	.06	.06	.05	.05	.04	- - -	- - -	- - -	- - -	- - -
0.924 b/2	0	-1.67	-.54	.14	.42	.39	- - -	- - -	- - -	- - -	- - -
	1.5	.39	.30	.12	-.13	-.42	-1.37	-.78	-.33	.03	.26
	4.0	.28	.16	.01	-.15	-.38	- - -	- - -	- - -	- - -	- - -
	7.0	.19	.07	-.05	-.19	-.36	-.50	-.32	-.17	-.03	.08
	10.0	.11	.02	-.10	-.20	-.34	-.39	-.26	-.15	-.04	.04
	15.0	.04	-.04	-.14	-.22	-.33	-.29	-.20	-.13	-.05	.01
	20.0	-.02	-.08	-.16	-.22	-.30	-.22	-.16	-.10	-.05	-.01
	25.0	-.05	-.11	-.17	-.22	-.30	-.18	-.13	-.09	-.05	-.02
	30.0	-.08	-.13	-.18	-.22	-.29	-.14	-.10	-.09	-.05	-.04
	35.0	-.10	-.14	-.18	-.22	-.29	-.12	-.09	-.07	-.05	-.04
	40.0	-.14	-.17	-.21	-.25	-.30	-.11	-.08	-.07	-.05	-.04
	45.0	-.14	-.18	-.22	-.25	-.30	-.09	-.06	-.05	-.04	-.05
	50.0	-.15	-.18	-.21	-.24	-.29	-.07	-.05	-.04	-.04	-.05
	60.0	-.13	-.15	-.17	-.20	-.23	-.01	0	-.01	-.01	-.02
	70.0	-.10	-.11	-.12	-.14	-.19	.03	.04	.03	.02	0
	80.0	-.06	-.07	-.08	-.09	-.12	.08	.09	.08	.07	.04
	90.0	.02	.02	.01	0	-.04	.10	.11	.10	.08	.05
	95.0	.07	.07	.07	.05	.01	.12	.12	.11	.09	.06

TABLE XXII.- CONTINUED

(b) α_u, 8°, 10°, 12°, 14°, 16°

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.086 b/2	0	0.10	-0.24	-0.74	-1.33	-2.07	- - -	- - -	- - -	- - -	- - -
	1.5	-.48	-.71	-.99	-1.28	-1.58	0.38	0.45	0.51	0.53	0.53
	4.0	-.41	-.55	-.72	-.88	-1.05	.29	.36	.43	.49	.53
	7.0	-.36	-.48	-.59	-.71	-.81	.23	.30	.37	.42	.48
	10.0	-.34	-.43	-.53	-.63	-.72	.20	.26	.33	.39	.44
	15.0	-.34	-.42	-.49	-.57	-.63	.17	.23	.30	.35	.40
	20.0	-.34	-.42	-.48	-.54	-.59	.15	.21	.27	.32	.37
	25.0	-.34	-.40	-.45	-.51	-.56	.12	.18	.24	.29	.34
	30.0	-.36	-.41	-.46	-.51	-.56	.11	.17	.22	.27	.32
	35.0	-.37	-.42	-.46	-.50	-.55	.10	.15	.20	.25	.30
	40.0	-.38	-.43	-.46	-.50	-.54	.09	.13	.19	.23	.28
	45.0	-.39	-.43	-.46	-.50	-.54	.08	.12	.17	.21	.26
	50.0	-.38	-.42	-.44	-.48	-.51	.07	.11	.16	.20	.25
	60.0	-.35	-.38	-.40	-.42	-.44	.08	.12	.16	.20	.24
	70.0	-.29	-.31	-.32	-.34	-.35	.10	.13	.16	.19	.23
	80.0	-.21	-.22	-.22	-.24	-.24	.12	.14	.17	.20	.23
	90.0	-.06	-.06	-.06	-.05	-.05	.11	.13	.15	.17	.20
	95.0	.01	.01	.02	.02	.03	.10	.11	.13	.15	.17
0.195 b/2	0	-.25	-.83	-1.66	-2.61	-3.80	- - -	- - -	- - -	- - -	- - -
	1.5	-.74	-1.07	-1.45	-1.83	-2.26	.40	.47	.50	.49	.43
	4.0	-.56	-.76	-.99	-1.22	-1.45	.31	.39	.45	.50	.53
	7.0	-.50	-.65	-.81	-.96	-1.12	.25	.33	.40	.45	.50
	10.0	-.46	-.58	-.70	-.83	-.95	.21	.28	.35	.41	.46
	15.0	-.43	-.53	-.62	-.71	-.81	.17	.24	.30	.36	.41
	20.0	-.42	-.50	-.57	-.65	-.73	.15	.21	.27	.33	.37
	25.0	-.40	-.47	-.54	-.61	-.66	.12	.18	.24	.30	.35
	30.0	-.40	-.46	-.51	-.58	-.61	.11	.16	.22	.27	.32
	35.0	-.39	-.45	-.49	-.54	-.58	.10	.15	.20	.25	.30
	40.0	-.39	-.44	-.49	-.53	-.55	.08	.13	.18	.23	.27
	45.0	-.39	-.43	-.47	-.51	-.53	.08	.12	.17	.21	.26
	50.0	-.39	-.42	-.46	-.49	-.52	.07	.11	.15	.19	.24
	60.0	-.34	-.36	-.39	-.41	-.42	.09	.12	.15	.19	.23
	70.0	-.26	-.28	-.29	-.30	-.31	.10	.13	.16	.19	.22
	80.0	-.17	-.18	-.18	-.19	-.19	.12	.15	.17	.20	.22
	90.0	-.03	-.03	-.03	-.03	-.03	.12	.13	.15	.17	.19
	95.0	.04	.04	.05	.05	.04	.11	.12	.13	.15	.16
0.382 b/2	0	-.50	-1.34	-2.47	-3.84	-5.49	- - -	- - -	- - -	- - -	- - -
	1.5	-.87	-1.29	-1.76	-2.26	-2.82	.40	.44	.41	.33	.18
	4.0	-.72	-.99	-1.28	-1.58	-1.89	.33	.40	.45	.48	.47
	7.0	-.63	-.83	-1.02	-1.24	-1.45	.26	.36	.40	.45	.49
	10.0	-.55	-.70	-.86	-1.03	-1.20	.22	.30	.36	.42	.46
	15.0	-.50	-.62	-.74	-.86	-.98	.18	.25	.31	.37	.41
	20.0	-.48	-.58	-.68	-.78	-.87	.14	.20	.27	.32	.36
	25.0	-.46	-.55	-.62	-.70	-.77	.13	.19	.25	.30	.34
	30.0	-.44	-.51	-.57	-.64	-.70	.11	.17	.22	.27	.31
	35.0	-.43	-.49	-.55	-.61	-.65	.10	.15	.21	.26	.29
	40.0	-.42	-.47	-.52	-.57	-.61	.08	.13	.18	.22	.26
	45.0	-.41	-.46	-.49	-.53	-.56	.08	.12	.16	.21	.24
	50.0	-.40	-.44	-.47	-.51	-.54	.07	.11	.15	.19	.22
	60.0	-.34	-.36	-.38	-.40	-.42	.09	.12	.15	.19	.21
	70.0	-.25	-.27	-.28	-.28	-.29	.10	.12	.15	.18	.20
	80.0	-.16	-.16	-.16	-.15	-.15	.12	.14	.16	.19	.20
	90.0	-.02	-.02	-.01	0	-.01	.12	.13	.14	.15	.16
	95.0	.05	.05	.05	.05	.03	.12	.13	.13	.14	.14
0.555 b/2	0	-.73	-1.79	-3.18	-4.88	-6.94	- - -	- - -	- - -	- - -	- - -
	1.5	-1.28	-1.82	-2.42	-3.08	-3.78	.43	.44	.37	.23	.02
	4.0	-.78	-1.09	-1.42	-1.77	-2.13	.34	.41	.45	.46	.44
	7.0	-.66	-.88	-1.02	-1.36	-1.61	.28	.36	.40	.46	.48
	10.0	-.60	-.77	-.95	-1.15	-1.33	.22	.30	.37	.42	.45
	15.0	-.53	-.67	-.80	-.95	-1.08	.18	.26	.31	.37	.41
	20.0	-.50	-.62	-.73	-.84	-.95	.15	.22	.28	.33	.38
	25.0	-.47	-.56	-.65	-.75	-.81	.12	.19	.24	.29	.33
	30.0	-.45	-.53	-.61	-.69	-.75	.11	.16	.22	.27	.30
	35.0	-.44	-.52	-.58	-.64	-.69	.10	.15	.19	.24	.28
	40.0	-.43	-.49	-.55	-.60	-.63	.08	.12	.16	.21	.25
	45.0	-.41	-.47	-.51	-.55	-.58	.07	.11	.15	.19	.23
	50.0	-.39	-.43	-.46	-.50	-.52	.06	.10	.14	.18	.21
	60.0	-.31	-.34	-.36	-.38	-.38	.08	.11	.14	.17	.19
	70.0	-.26	-.27	-.28	-.29	-.27	.09	.11	.13	.16	.16
	80.0	-.16	-.16	-.15	-.14	-.13	.11	.13	.14	.16	.17
	90.0	-.03	-.02	-.01	-.01	-.02	.11	.12	.13	.13	.13
	95.0	.04	.05	.05	.04	.01	.12	.13	.13	.13	.12

TABLE XXII.- CONCLUDED
(b) Concluded

Spanwise station	Percent chord	Upper surface, Angle of attack 8°	10°	12°	14°	16°	Lower surface, Angle of attack 8°	10°	12°	14°	16°
0.707 b/2	0	-0.80	-2.02	-3.60	-5.64	-8.05	- - -	- - -	- - -	- - -	- - -
	1.5	-1.04	-1.56	-2.15	-2.79	-4.46	0.44	0.45	0.43	0.16	-0.08
	4.0	-.80	-1.12	-1.47	-1.85	-2.24	.33	.41	.45	.43	.42
	7.0	-.68	-.92	-1.17	-1.44	-1.71	.27	.33	.40	.43	.45
	10.0	-.60	-.78	-.97	-1.19	-1.40	.23	.29	.35	.40	.44
	15.0	-.54	-.68	-.82	-.98	-1.12	.18	.24	.31	.35	.40
	20.0	-.50	-.62	-.74	-.86	-.96	.15	.21	.27	.31	.35
	25.0	-.47	-.57	-.67	-.77	-.85	.12	.16	.22	.26	.31
	30.0	-.46	-.54	-.62	-.69	-.76	.10	.14	.19	.23	.28
	35.0	-.44	-.51	-.58	-.64	-.69	.08	.11	.16	.20	.24
	40.0	-.42	-.48	-.54	-.59	-.63	.06	.09	.14	.18	.21
	45.0	-.42	-.48	-.52	-.58	-.61	.05	.08	.12	.15	.18
	50.0	-.40	-.45	-.48	-.52	-.54	.05	.07	.11	.13	.15
	60.0	-.32	-.36	-.38	-.40	-.41	.06	.07	.10	.12	.14
	70.0	-.26	-.27	-.27	-.28	-.26	.08	.08	.10	.11	.12
	80.0	-.15	-.17	-.16	-.16	-.13	.10	.10	.11	.11	.12
	90.0	-.02	-.04	-.02	-.02	-.03	.10	.10	.11	.10	.10
	95.0	.04	.04	.04	.03	0	- - -	- - -	- - -	- - -	- - -
0.831 b/2	0	-.74	-2.00	-3.64	-5.75	-8.14	- - -	- - -	- - -	- - -	- - -
	1.5	-.96	-1.48	-2.06	-2.71	-3.40	.43	.45	.36	.16	-.09
	4.0	-.73	-1.06	-1.40	-1.77	-2.16	.30	.39	.43	.43	.40
	7.0	-.63	-.87	-1.11	-1.37	-1.63	.25	.31	.37	.42	.44
	10.0	-.57	-.76	-.95	-1.16	-1.35	.20	.27	.34	.37	.41
	15.0	-.51	-.65	-.78	-.94	-1.08	.14	.21	.28	.32	.35
	20.0	-.48	-.60	-.70	-.83	-.93	.11	.16	.23	.27	.31
	25.0	-.45	-.54	-.64	-.73	-.81	.09	.13	.19	.23	.27
	30.0	-.43	-.50	-.58	-.66	-.72	.07	.10	.15	.19	.22
	35.0	-.41	-.48	-.54	-.61	-.66	.05	.08	.12	.15	.19
	40.0	-.41	-.48	-.53	-.59	-.64	.03	.05	.10	.12	.15
	45.0	-.40	-.45	-.50	-.55	-.58	.02	.05	.08	.10	.12
	50.0	-.37	-.43	-.45	-.50	-.52	.02	.03	.06	.08	.10
	60.0	-.30	-.34	-.36	-.39	-.40	.03	.04	.06	.07	.08
	70.0	-.23	-.26	-.27	-.29	-.29	.03	.04	.06	.06	.06
	80.0	-.15	-.17	-.17	-.18	-.16	.08	.07	.07	.07	.07
	90.0	-.02	-.06	-.05	-.05	-.05	.09	.06	.06	.05	.04
	95.0	.04	.02	.01	0	-.03	- - -	- - -	- - -	- - -	- - -
0.924 b/2	0	-.01	-.77	-1.92	-3.42	-5.18	- - -	- - -	- - -	- - -	- - -
	1.5	-.87	-1.35	-1.90	-2.53	-3.17	.40	.44	.36	.17	-.06
	4.0	-.64	-.92	-1.23	-1.57	-1.90	- - -	- - -	- - -	- - -	- - -
	7.0	-.55	-.76	-.97	-1.21	-1.37	.19	.27	.33	.37	.39
	10.0	-.50	-.65	-.82	-.98	-1.18	.13	.20	.26	.30	.31
	15.0	-.44	-.56	-.69	-.81	-.94	.08	.12	.18	.21	.25
	20.0	-.39	-.48	-.59	-.69	-.78	.03	.06	.10	.12	.15
	25.0	-.37	-.45	-.54	-.62	-.69	.02	.05	.07	.10	.12
	30.0	-.35	-.42	-.49	-.58	-.64	-.01	.01	.03	.04	.05
	35.0	-.34	-.40	-.47	-.54	-.61	-.01	0	.02	.03	.04
	40.0	-.35	-.41	-.48	-.55	-.62	-.03	-.03	-.02	-.01	-.01
	45.0	-.34	-.40	-.46	-.53	-.59	-.04	-.03	-.02	-.01	-.01
	50.0	-.32	-.38	-.44	-.51	-.57	-.04	-.04	-.04	-.04	-.05
	60.0	-.27	-.31	-.37	-.43	-.49	-.02	-.03	-.04	-.04	-.05
	70.0	-.21	-.28	-.33	-.39	-.44	-.02	-.03	-.05	-.06	-.07
	80.0	-.16	-.22	-.27	-.32	-.35	.02	0	-.01	-.03	-.04
	90.0	-.10	-.16	-.21	-.27	-.33	.03	0	-.02	-.04	-.05
	95.0	-.02	-.08	-.11	-.16	-.25	.04	.01	-.02	-.04	-.08

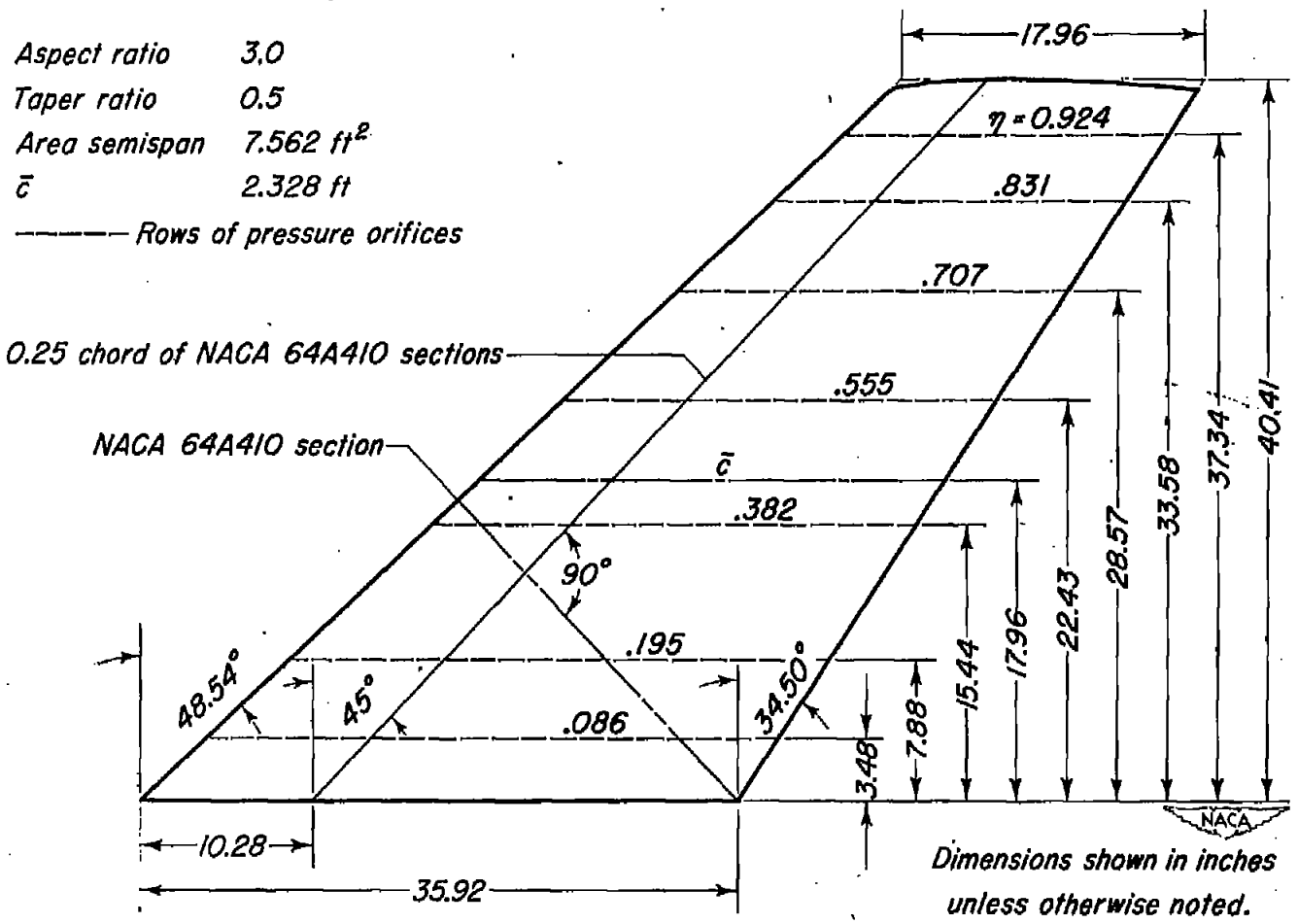


Figure 1.-Projected plan form of the cambered and twisted wing on the plane of the leading edge and the root chord.

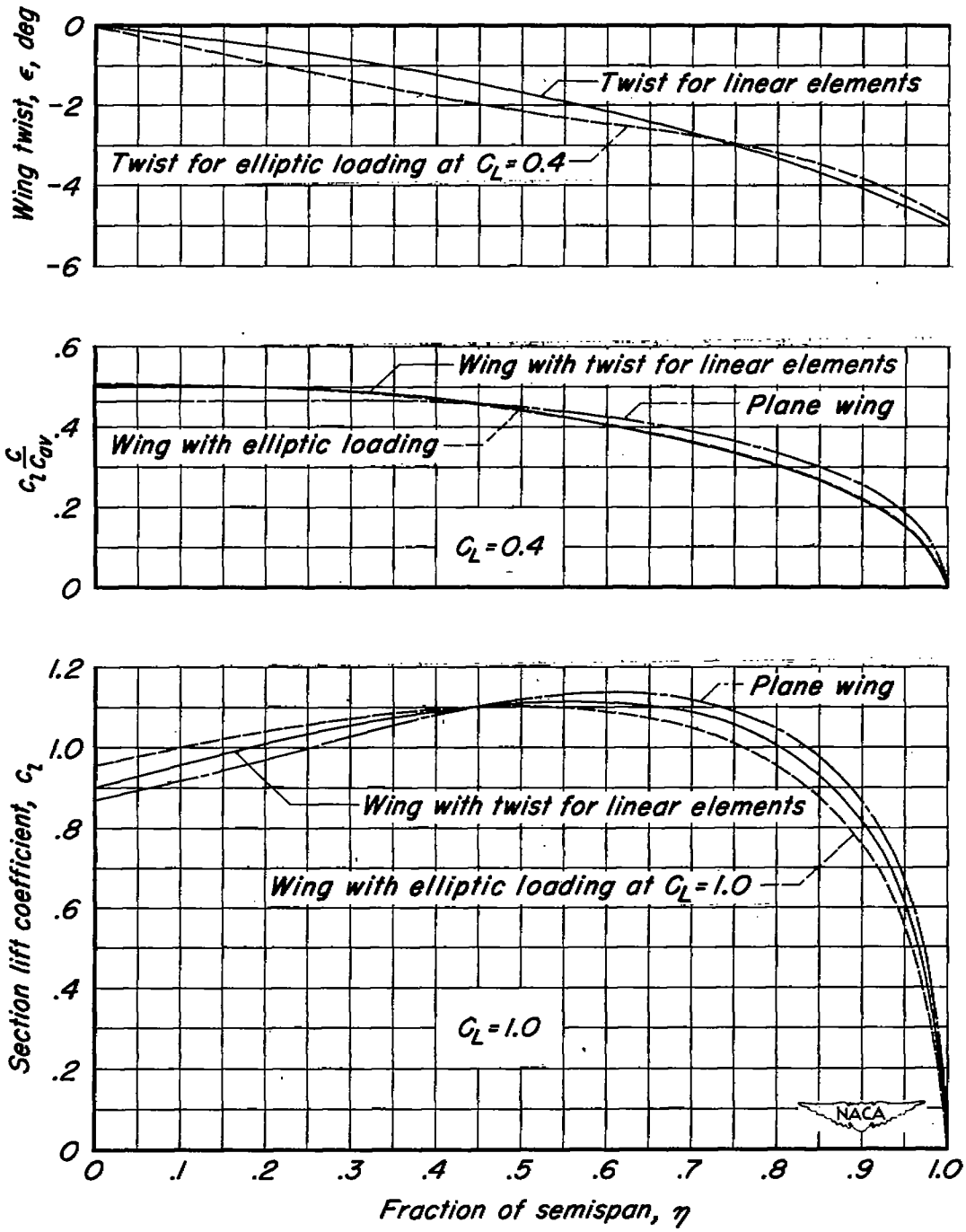
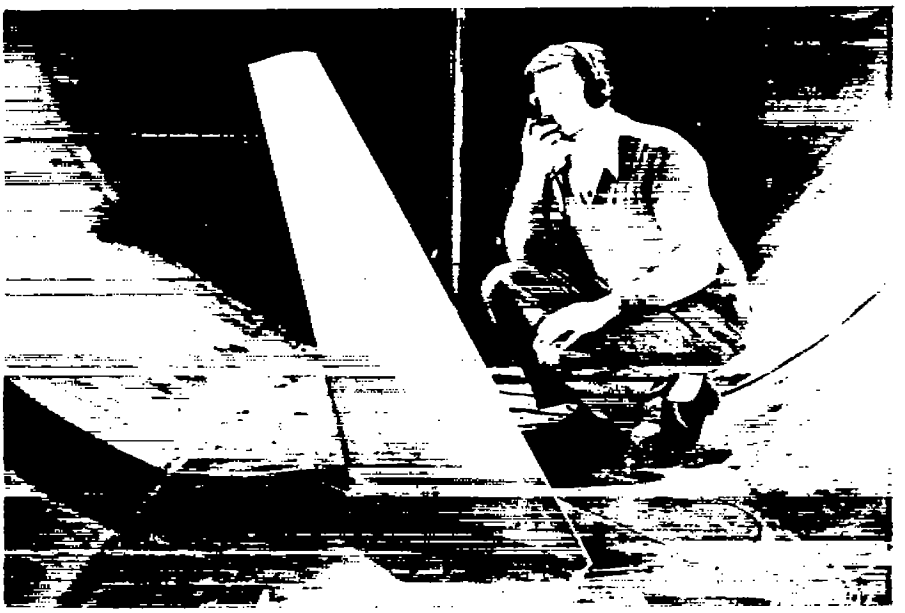


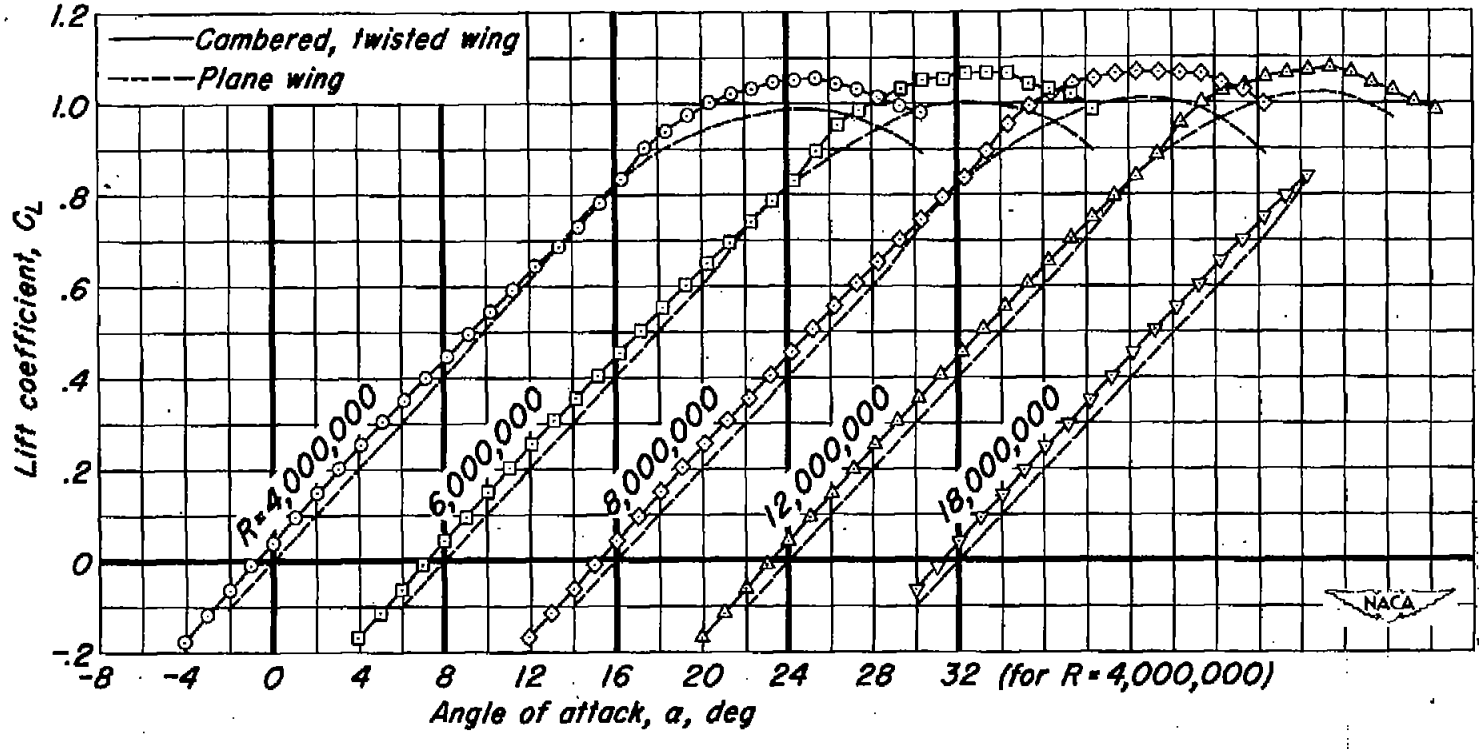
Figure 2.—Comparisons of theoretical spanwise distributions of wing twist, $c_l \frac{c}{c_{av}}$, and c_l.



(a) Model in test section.

(b) Roughness strip at 0.10 chord.

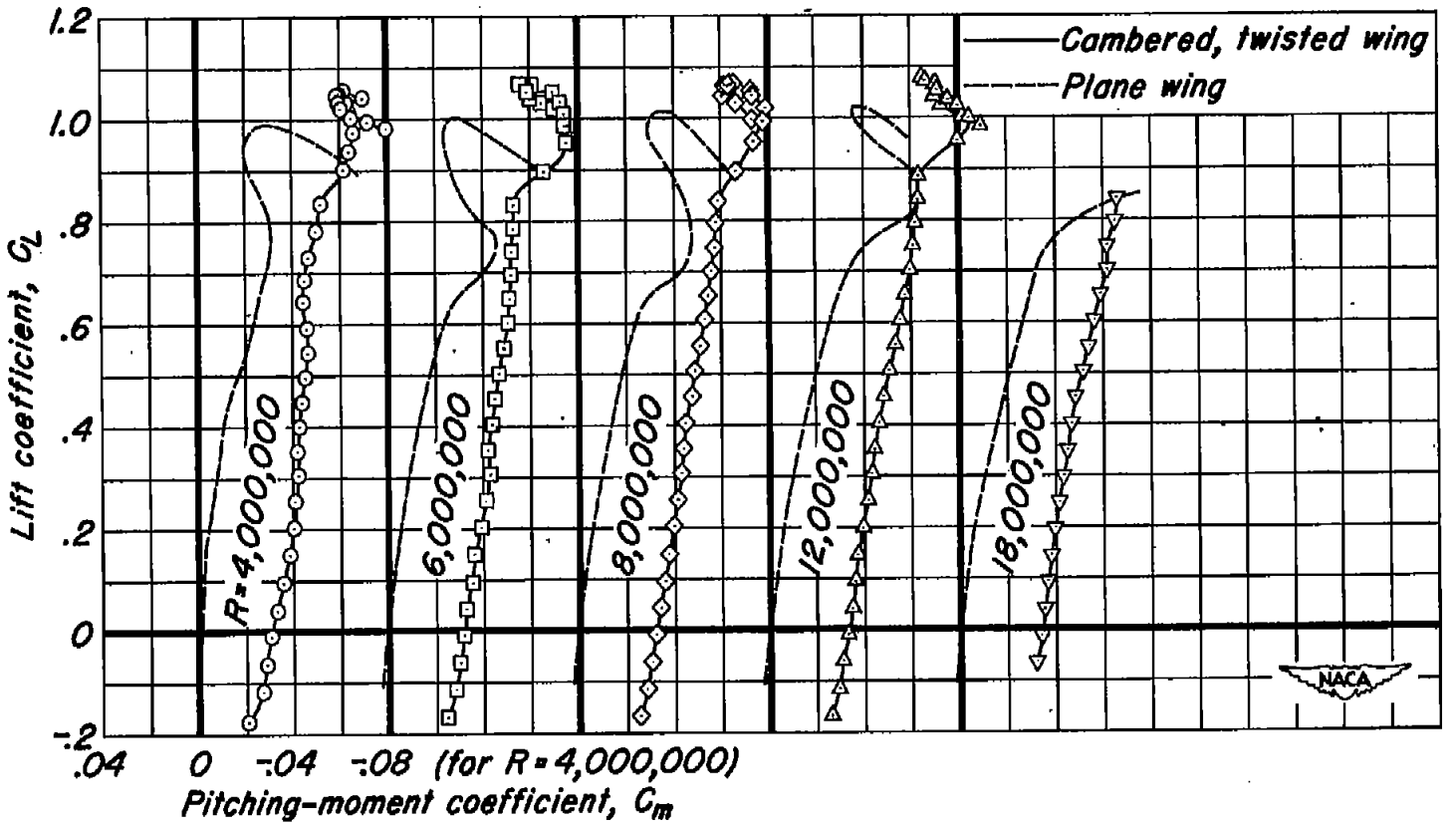
Figure 3.— The model mounted in the Ames 12-foot pressure wind tunnel and a sample of the surface roughness applied to the wing.



(a) C_L vs α

Figure 4.–The effect of Reynolds number on the low-speed aerodynamic characteristics. M_o, 0.25.

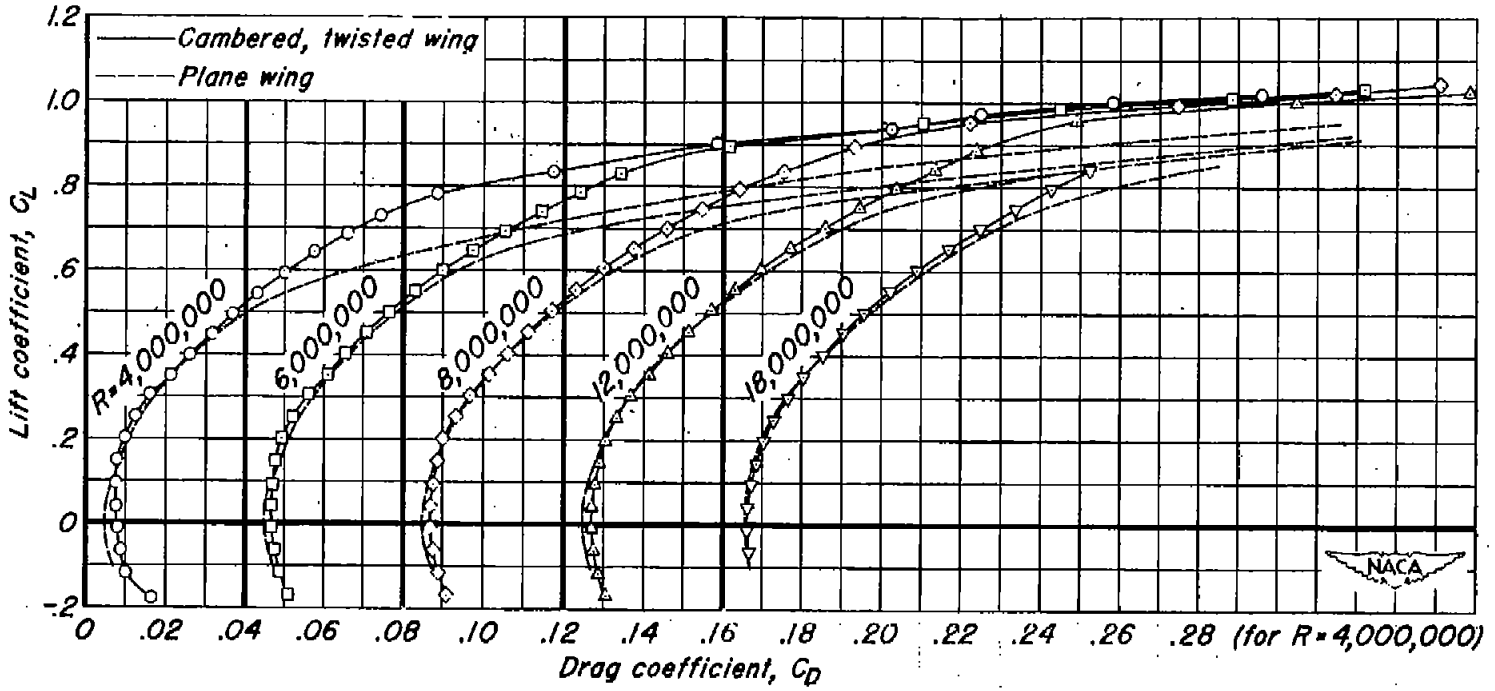
[redacted]



(b) C_L vs C_m

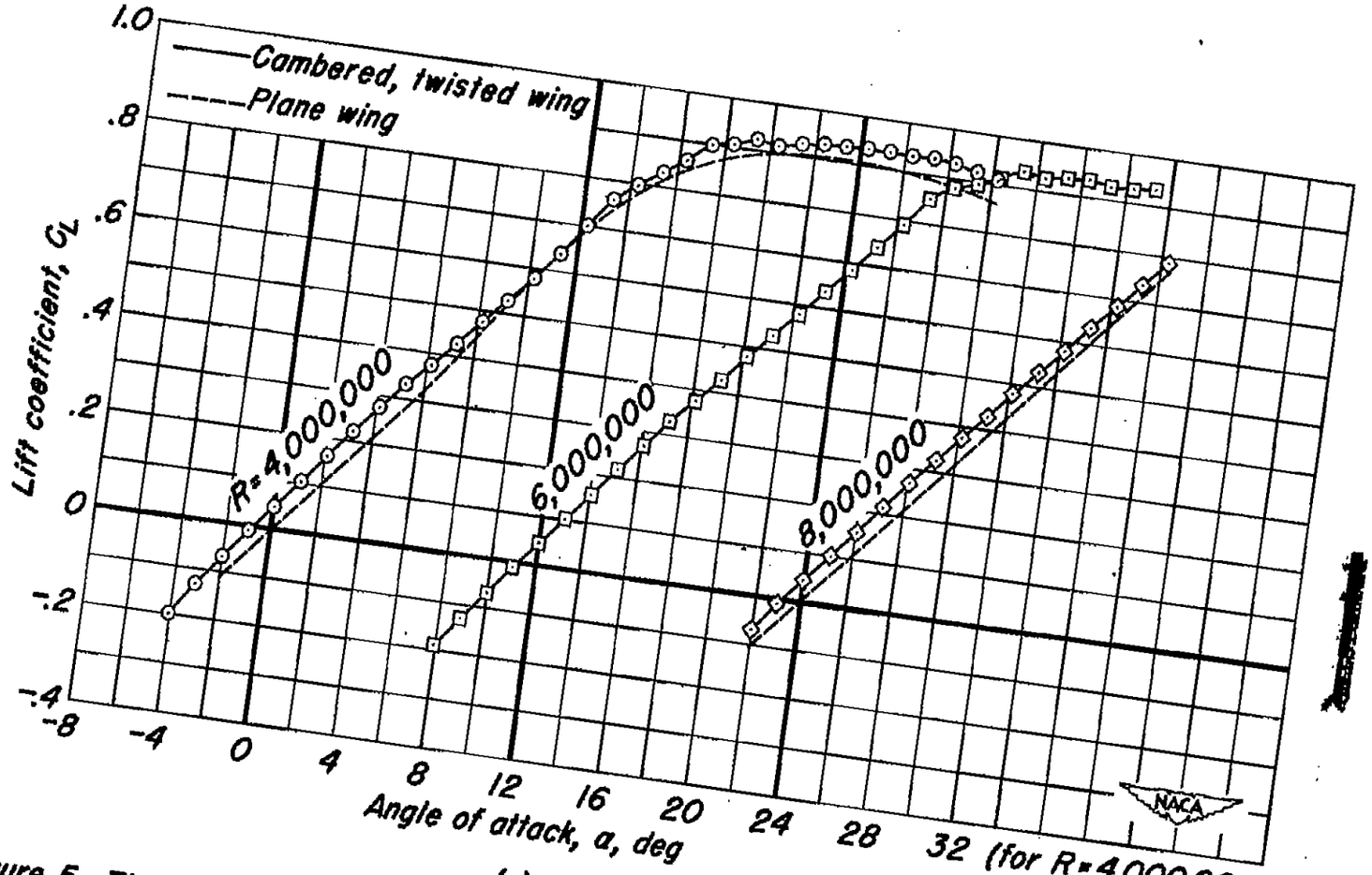
Figure 4.–Continued.

[redacted]



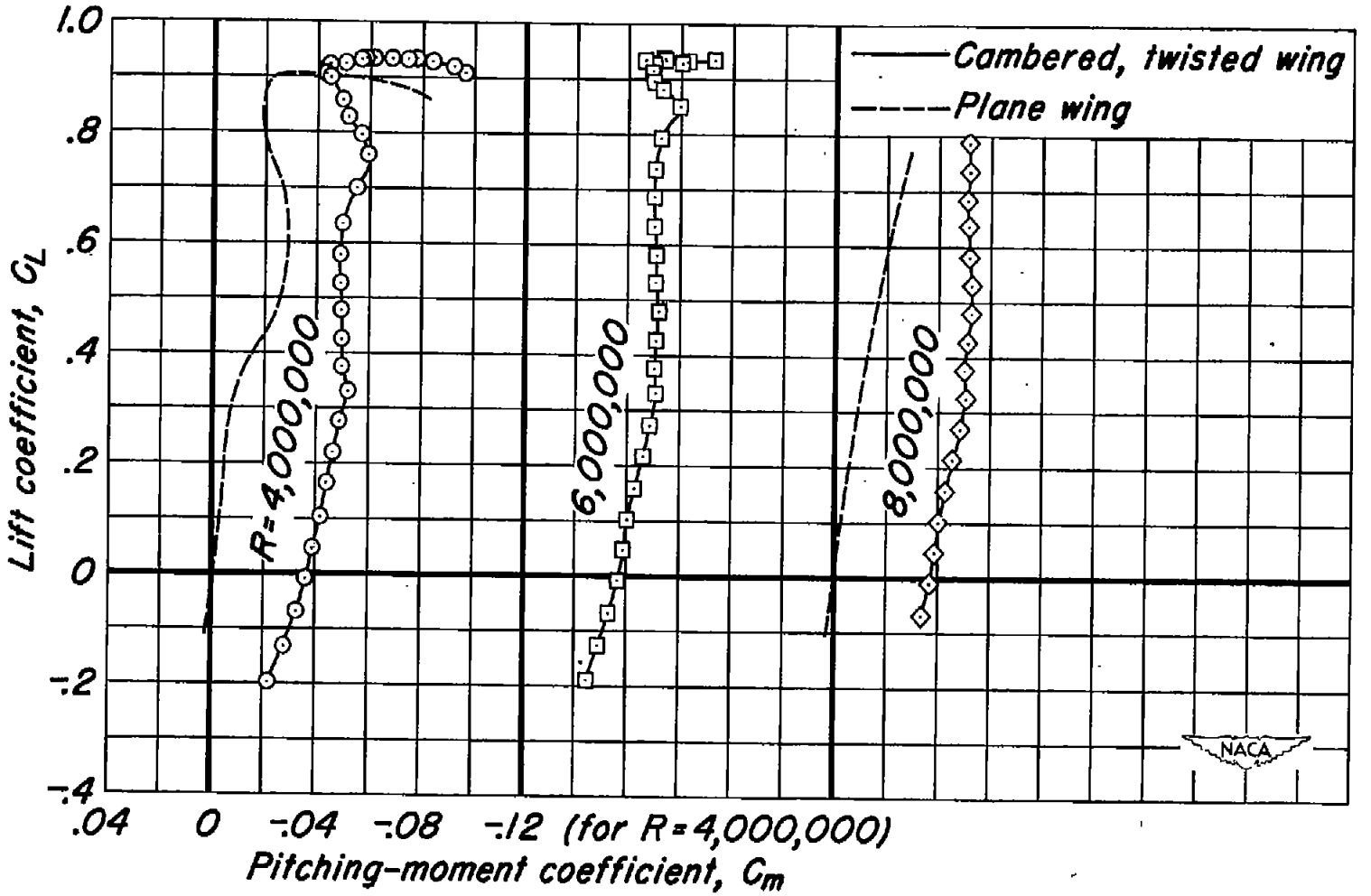
(c) C_L vs C_D

Figure 4.-Concluded.



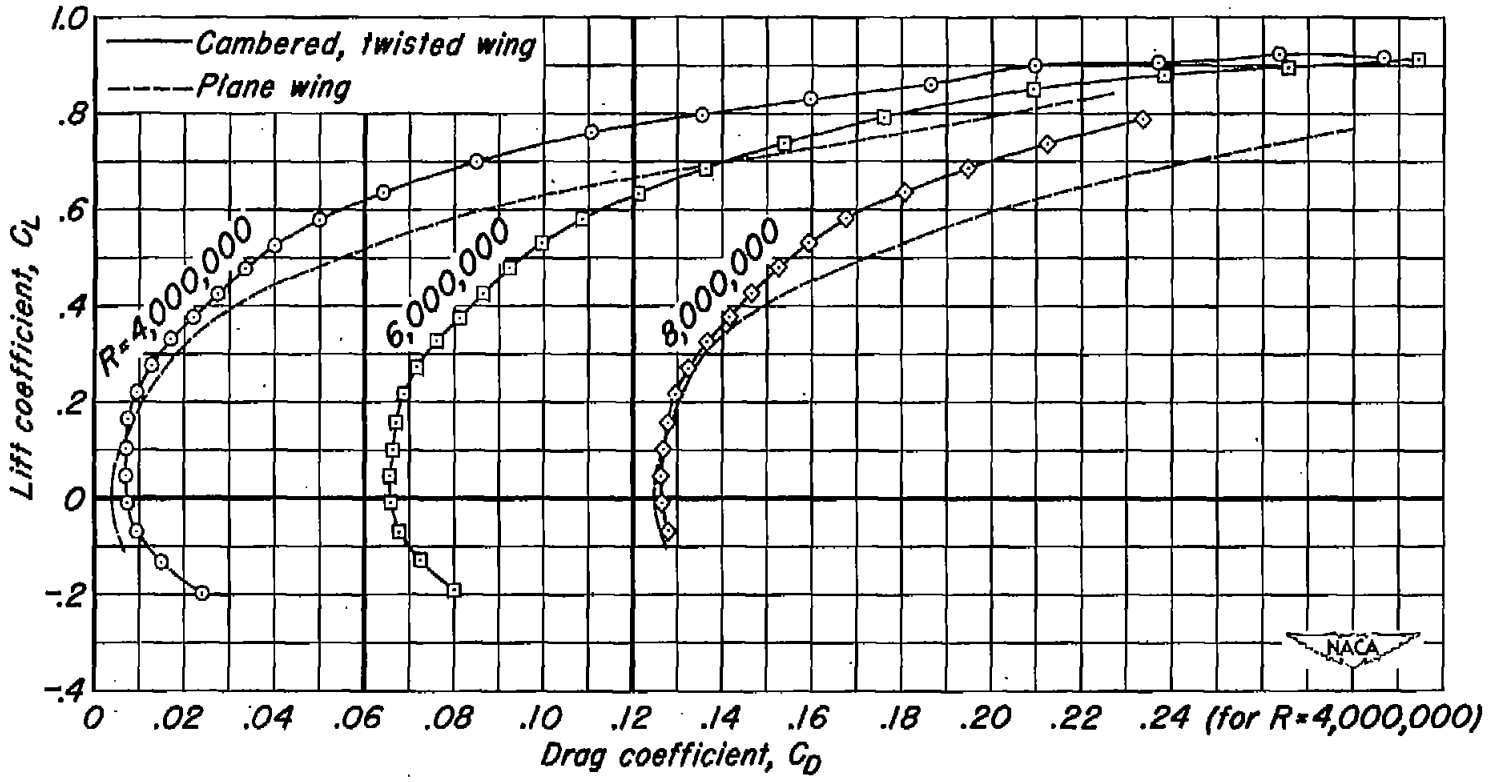
(a) C_L vs α

Figure 5.–The aerodynamic characteristics at Reynolds numbers of 4,000,000, 6,000,000, and 8,000,000. M_o, 0.60.



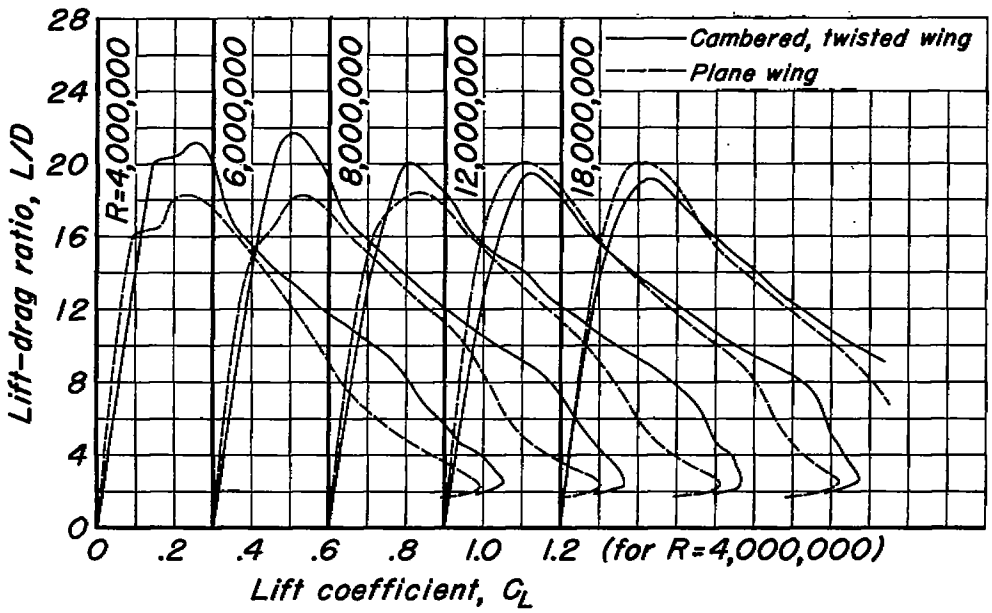
(b) C_L vs C_m

Figure 5.-Continued.

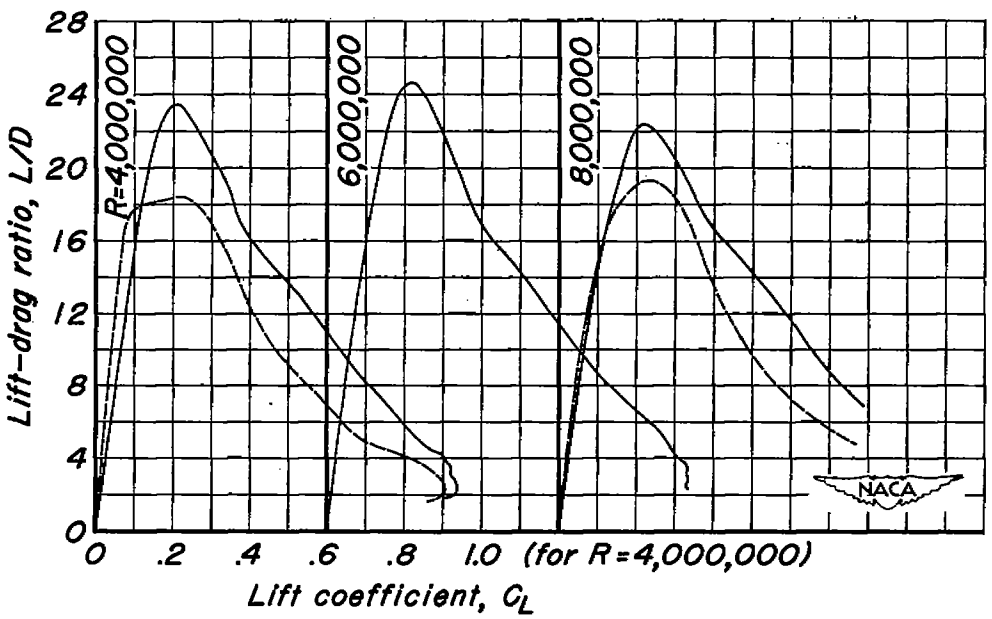


(c) C_L vs C_D

Figure 5.–Concluded.

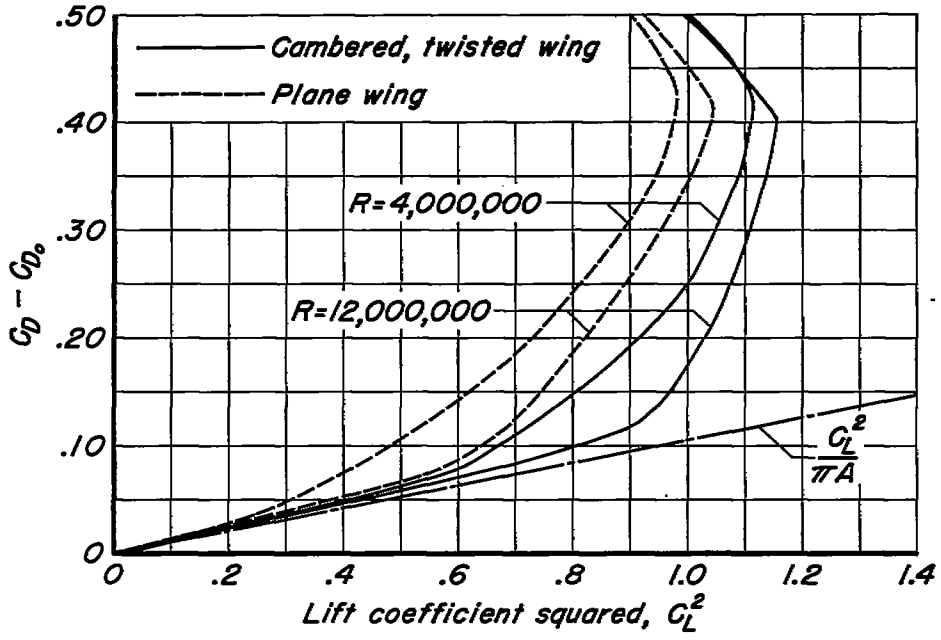


(a) M_o, 0.25

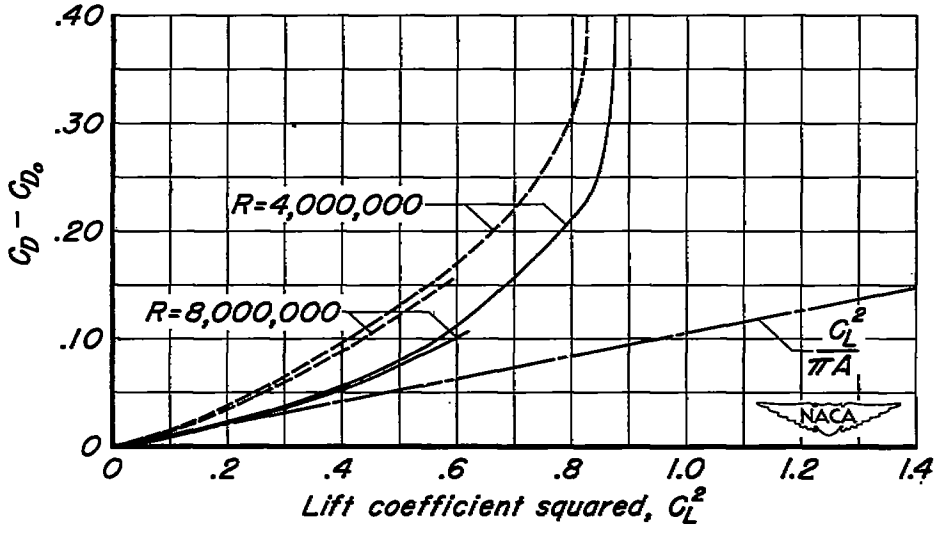


(b) M_o, 0.60

Figure 6.–The effect of Reynolds number on the lift-drag ratios at Mach numbers of 0.25 and 0.60.



(a) M_o, 0.25



(b) M_o, 0.60

Figure 7.—The variation of the drag due to lift with lift coefficient squared for several Reynolds numbers at Mach numbers of 0.25 and 0.60.

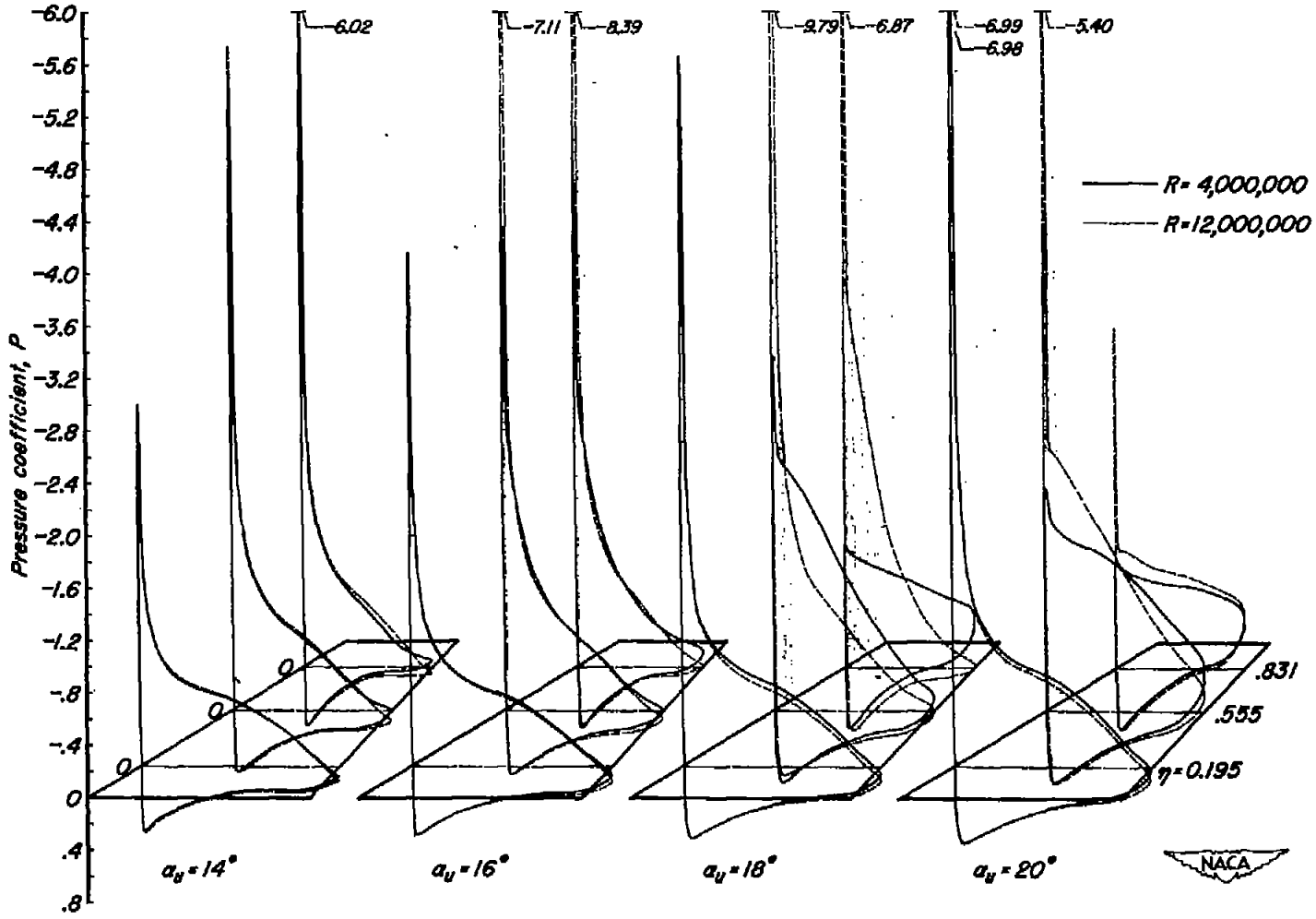
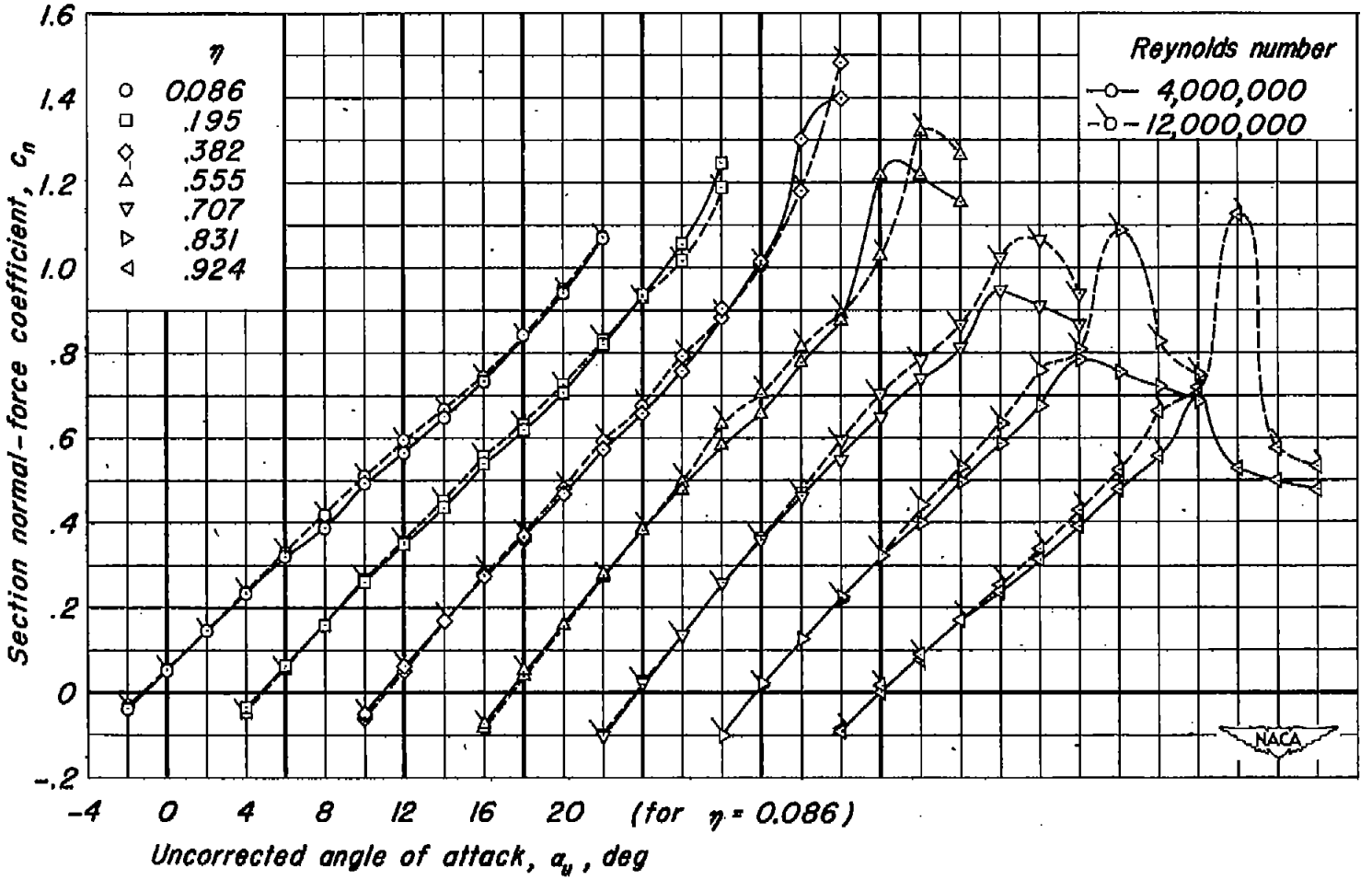


Figure 8.– Chordwise pressure distributions at three spanwise stations of the cambered and twisted wing for Reynolds numbers of 4,000,000 and 12,000,000. M_∞, 0.25.

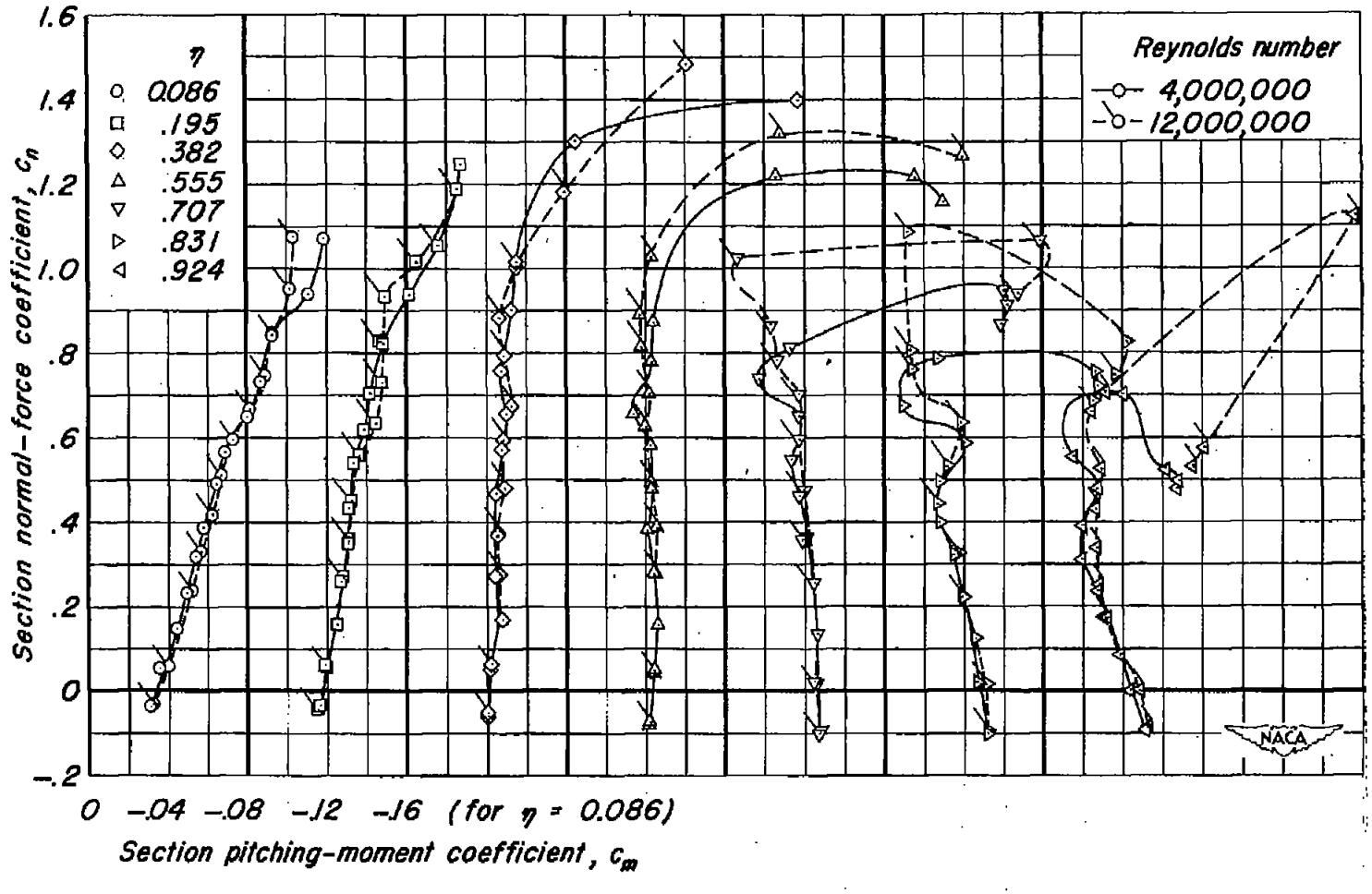
[redacted]



(a) c_n vs α_u

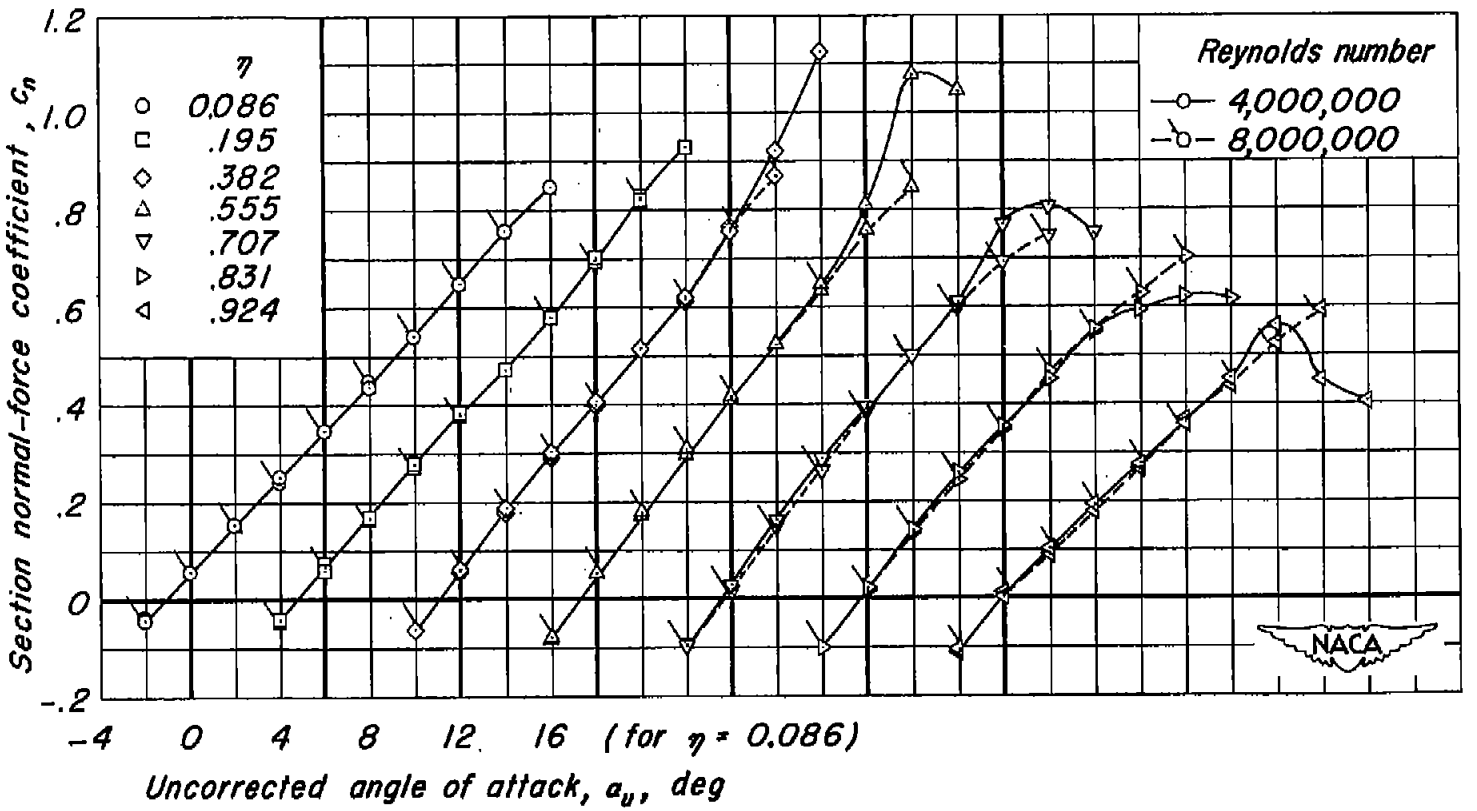
Figure 9.—The effect of Reynolds number on the section normal-force and section pitching-moment coefficients at seven spanwise stations of the cambered and twisted wing. M_o, 0.25.

[redacted]



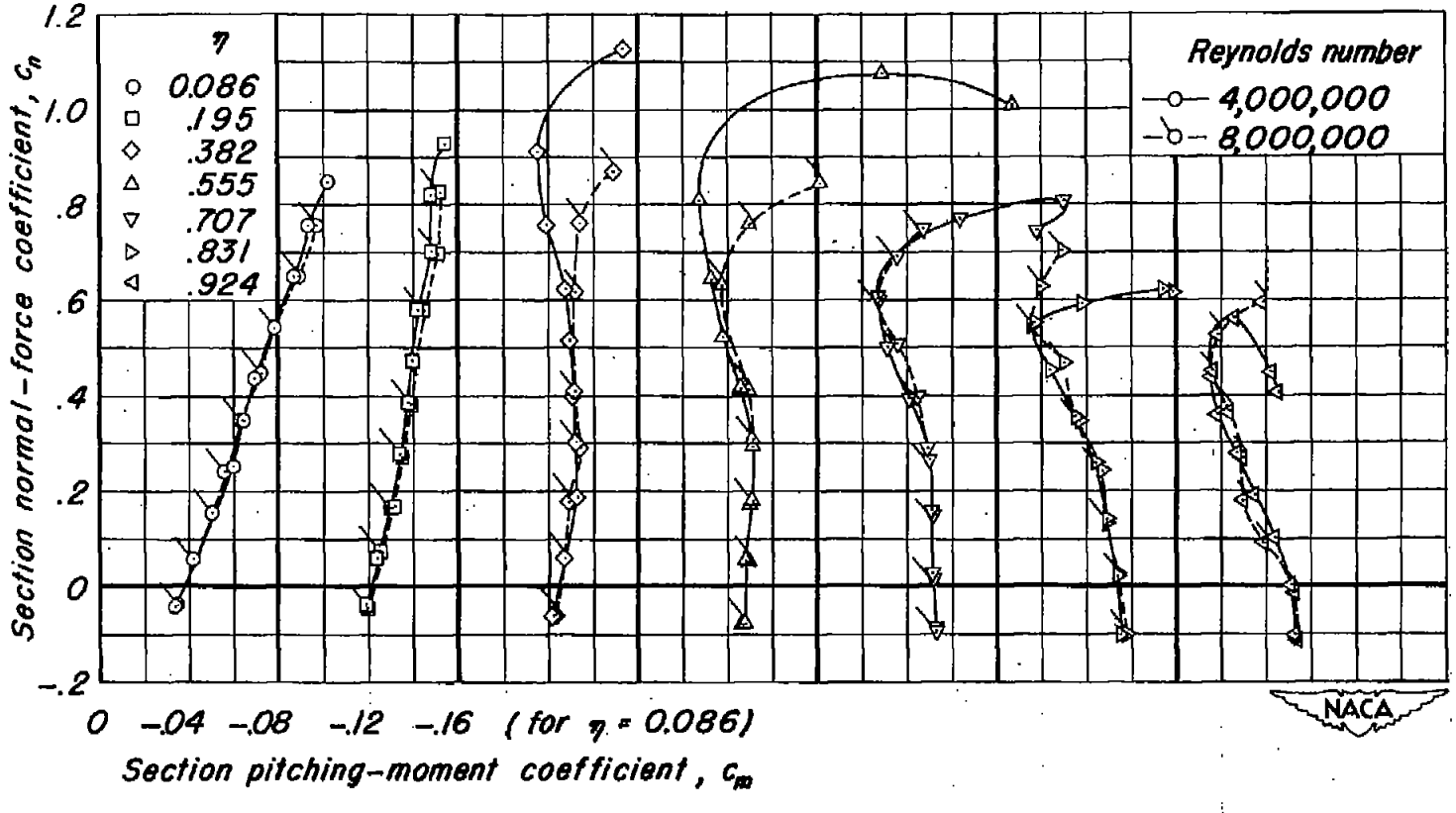
(b) c_n vs c_m

Figure 9.–Concluded.



(a) c_n vs α_u

Figure 10.–The effect of Reynolds number on the section normal-force and section pitching-moment coefficients at seven spanwise stations of the cambered and twisted wing. M_o, 0.60.



(b) c_n vs c_m

Figure 10.-Concluded.

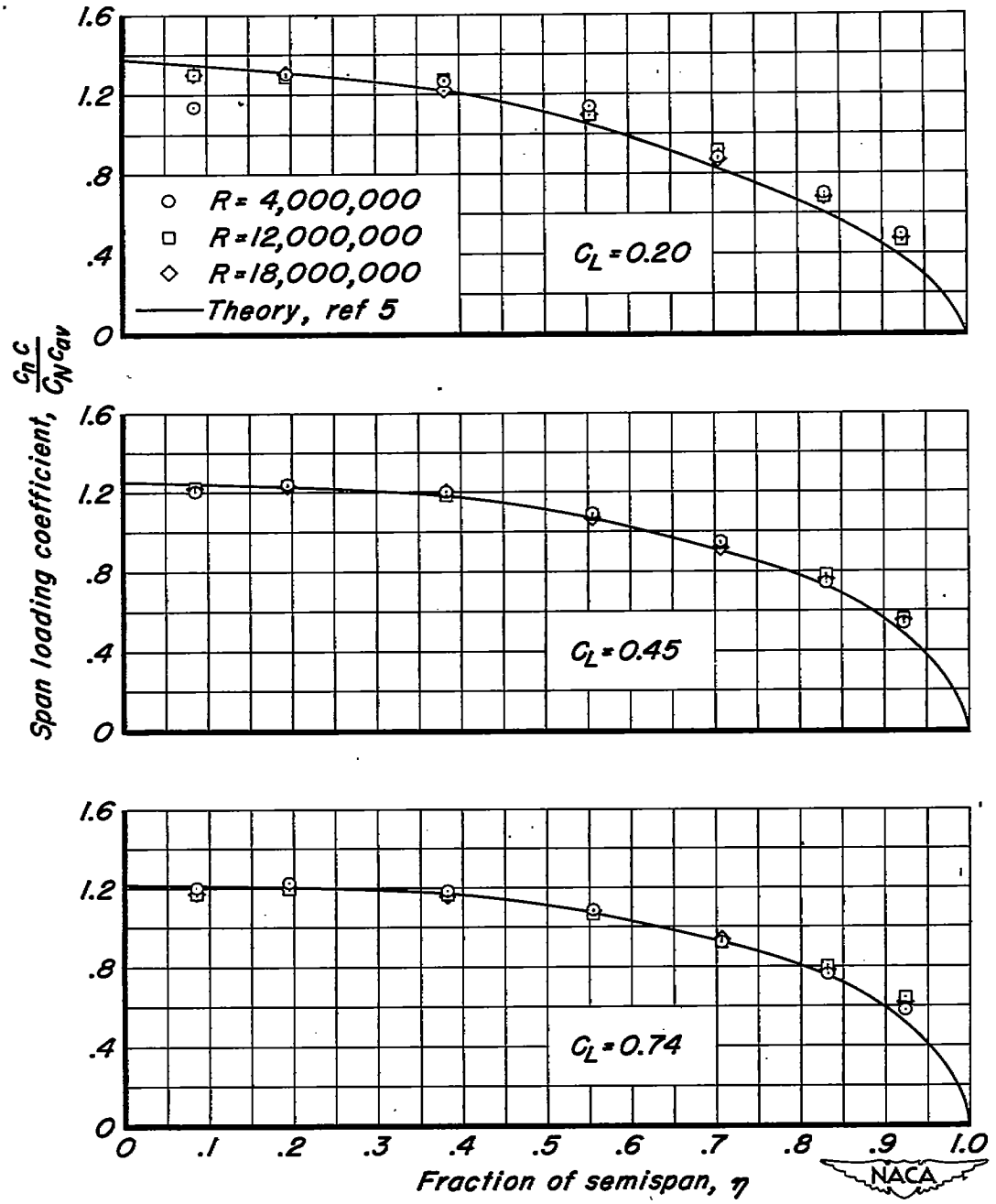
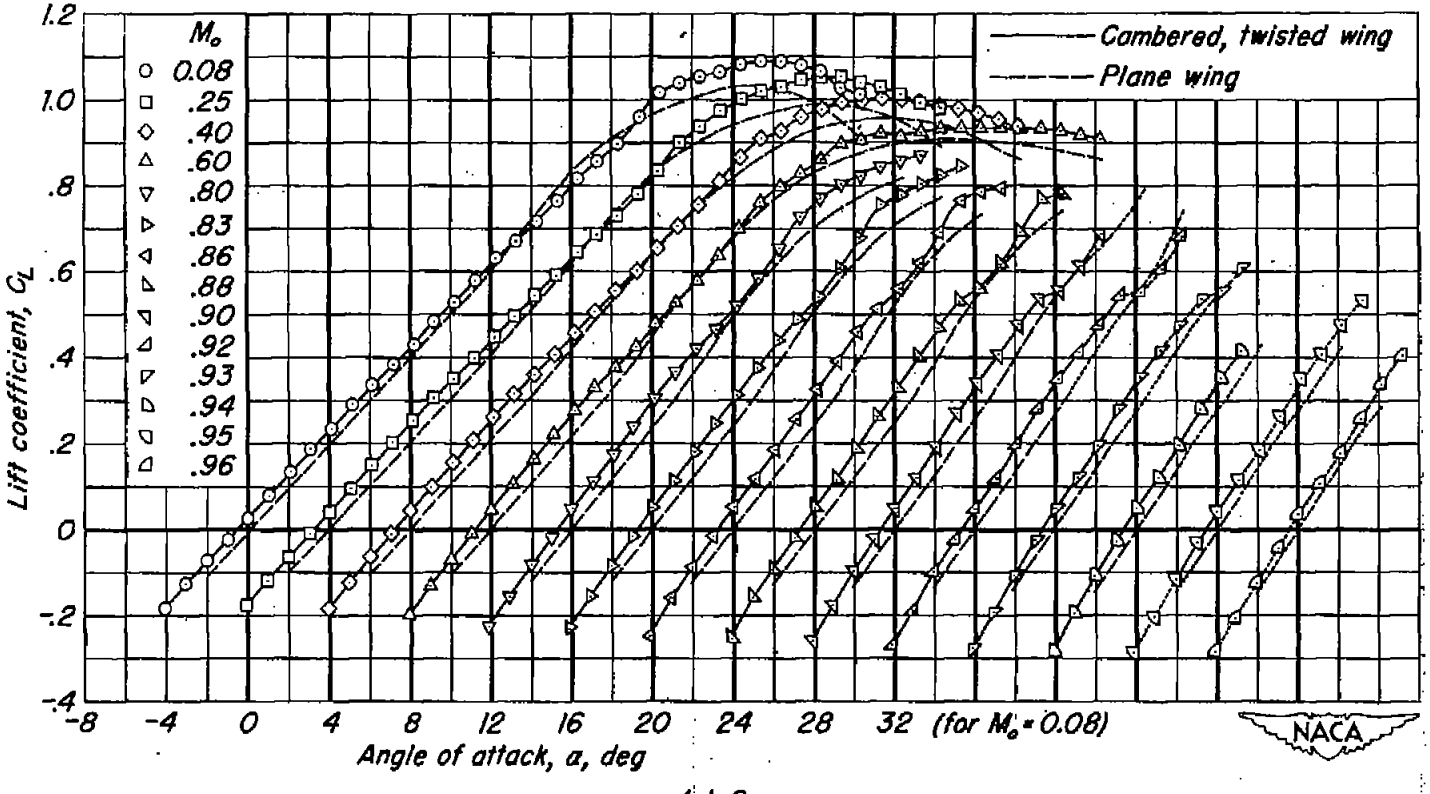
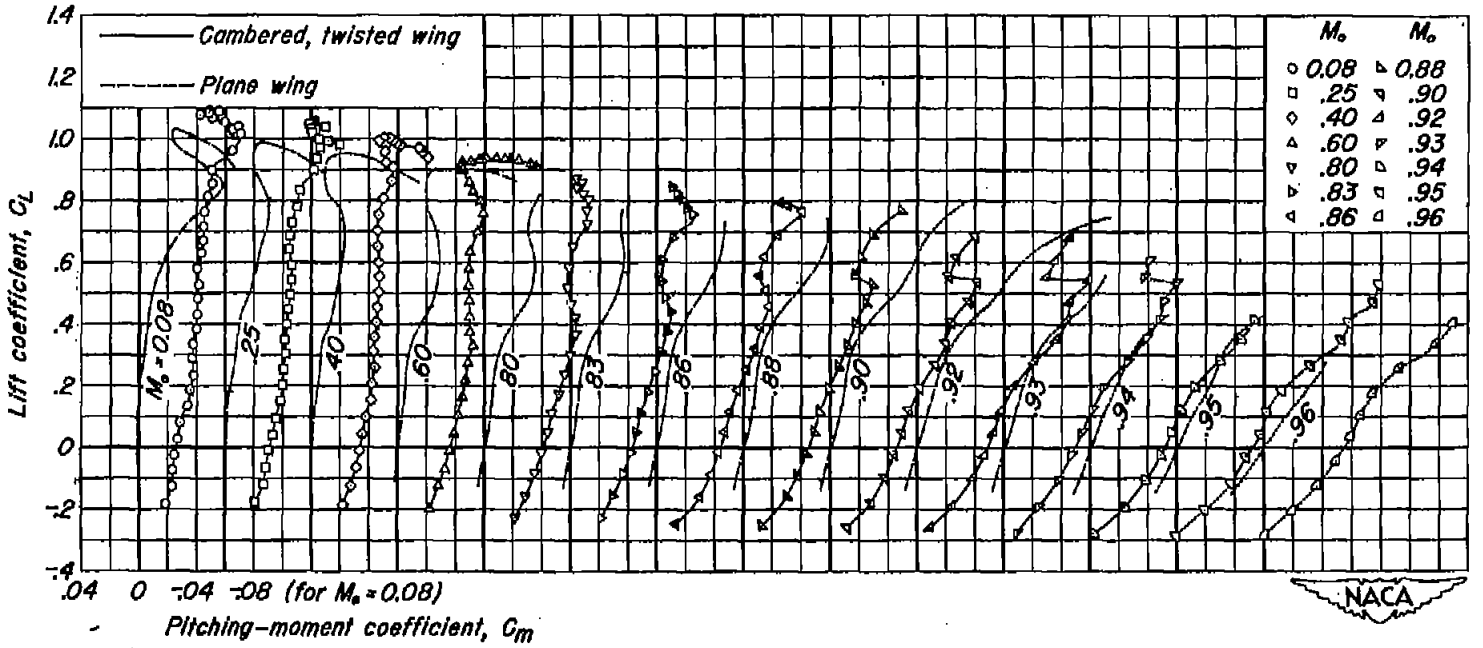


Figure 11.–The spanwise distribution of loading coefficient on the cambered and twisted wing at several Reynolds numbers for three lift coefficients. M_o, 0.25.



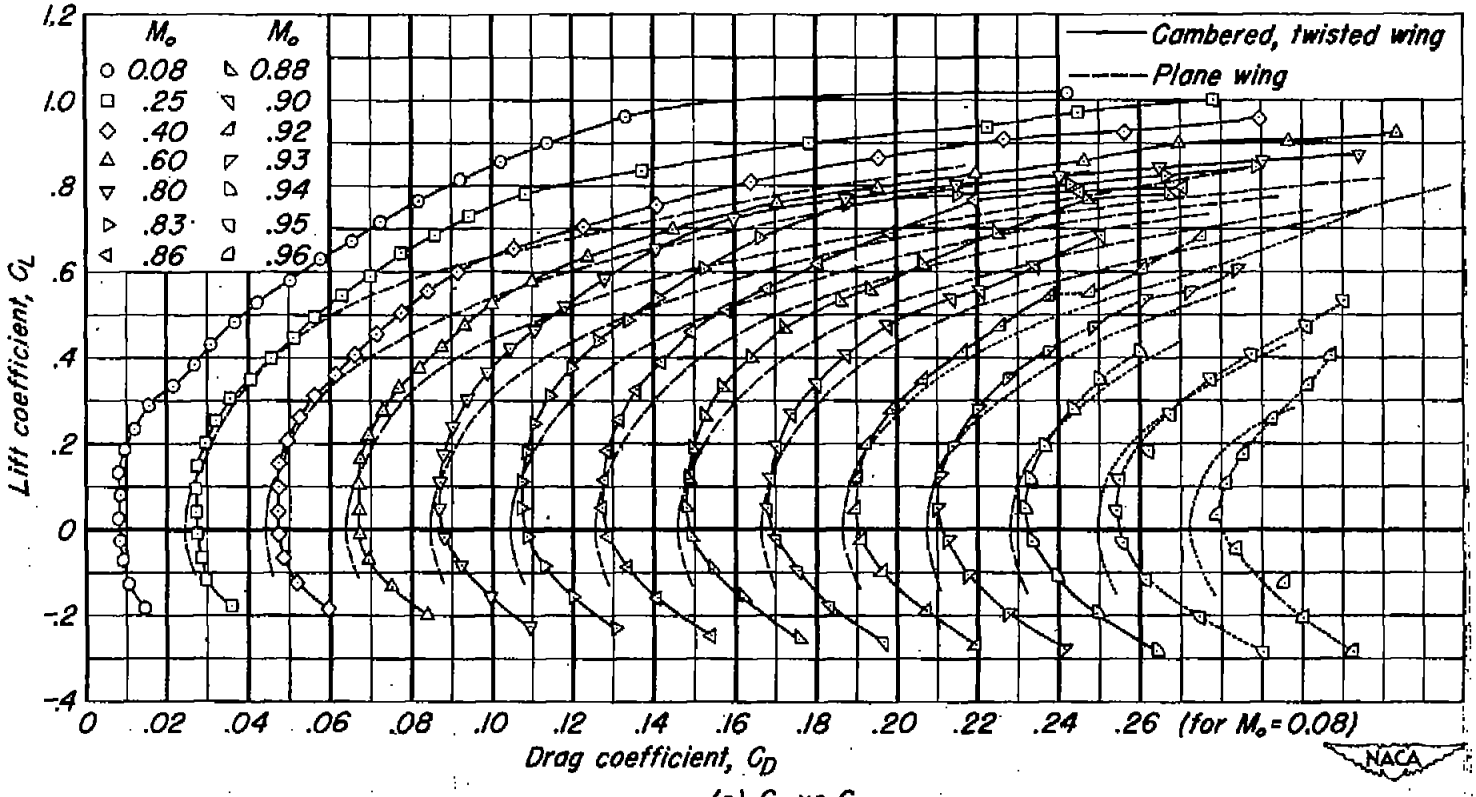
(a) C_L vs α

Figure 12.–The effect of Mach number on the aerodynamic characteristics. R, 4,000,000.



(b) C_L vs C_m

Figure 12.-Continued.



(c) C_L vs C_D

Figure 12.–Concluded.

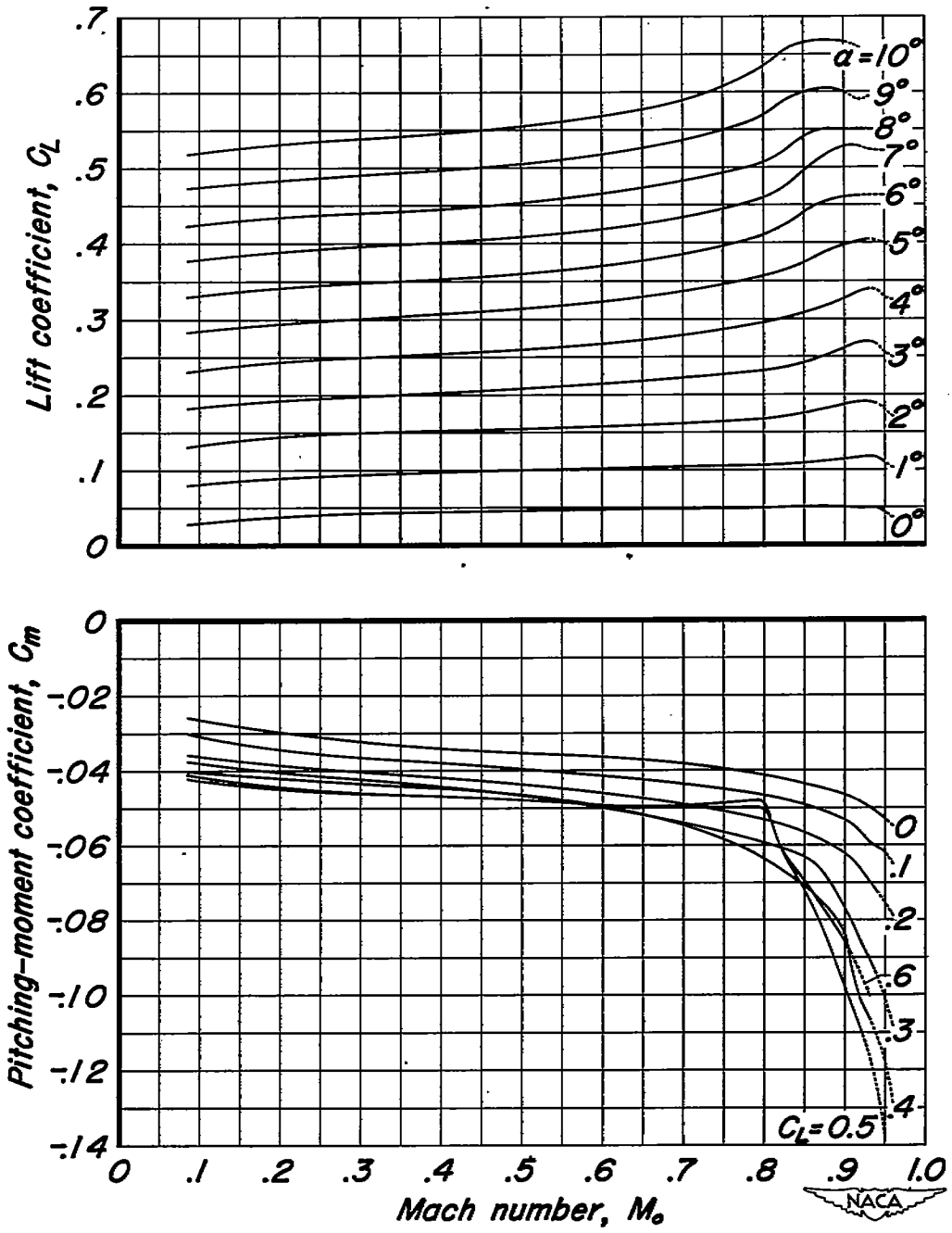


Figure 13.—The variation of the lift and pitching-moment coefficients of the cambered and twisted wing with Mach number. R, 4,000,000.

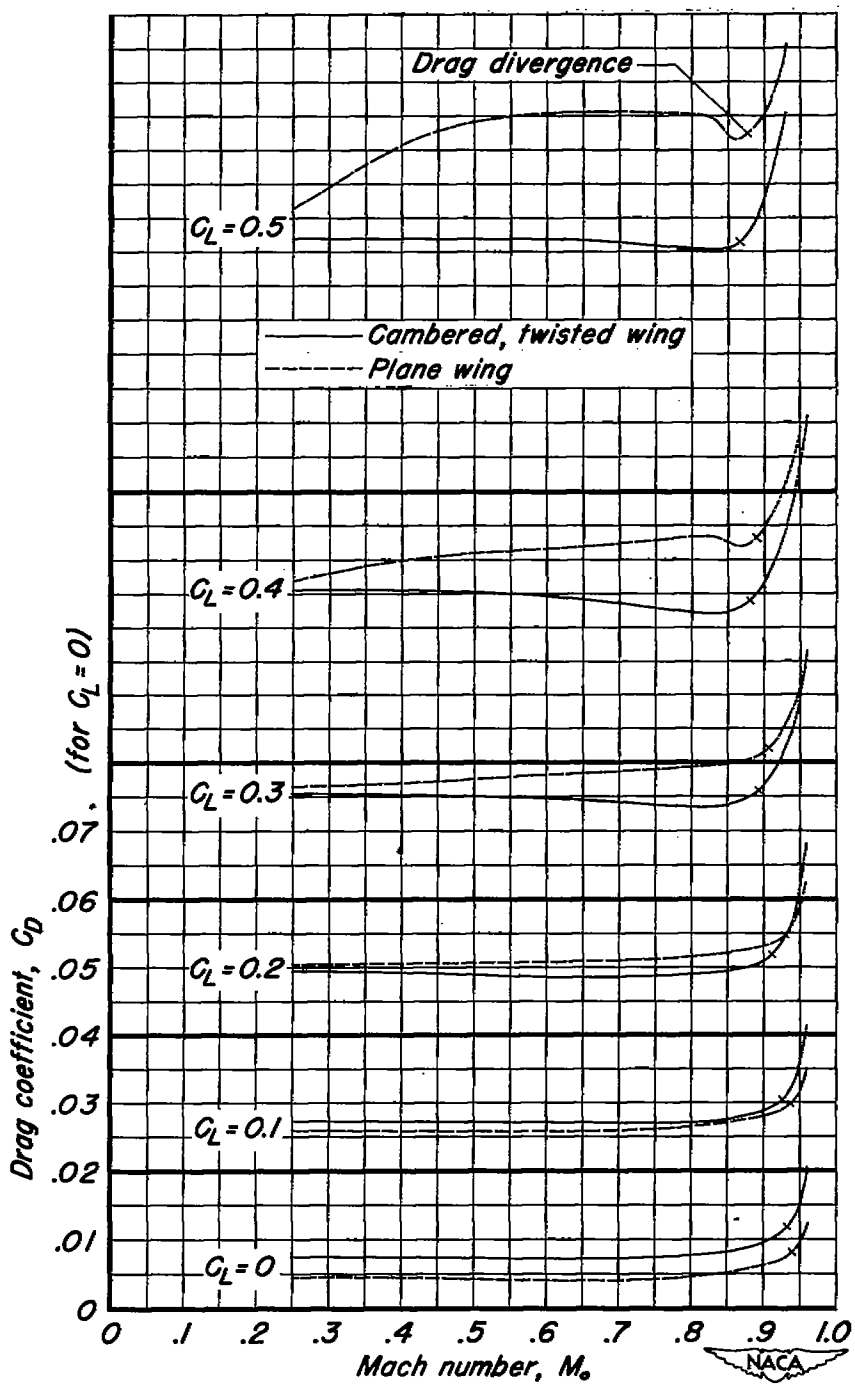


Figure 14.—The variation of the drag coefficient with Mach number. R, 4,000,000.

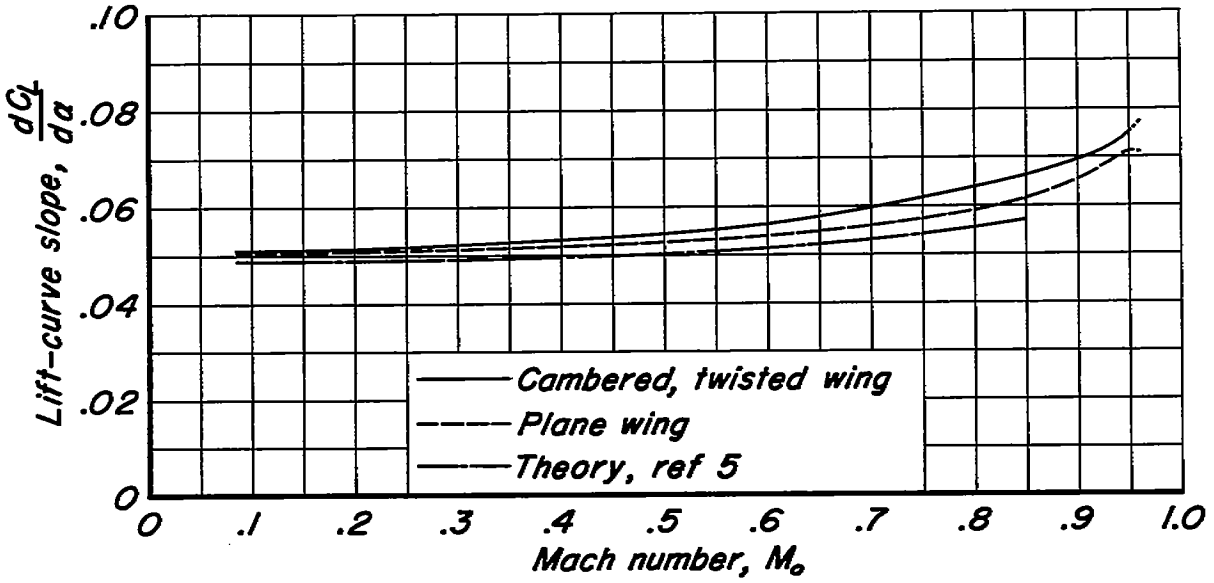


Figure 15.–The variation of the lift-curve slope at zero lift with Mach number. R, 4,000,000.

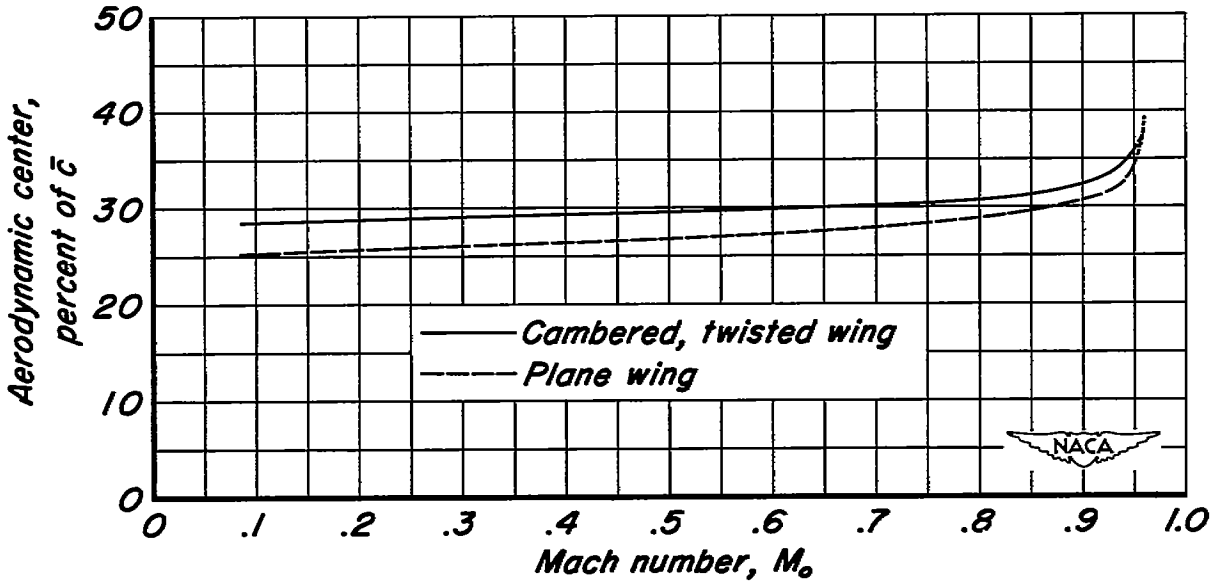


Figure 16.–The variation of the position of the aerodynamic center at zero lift with Mach number. R, 4,000,000.

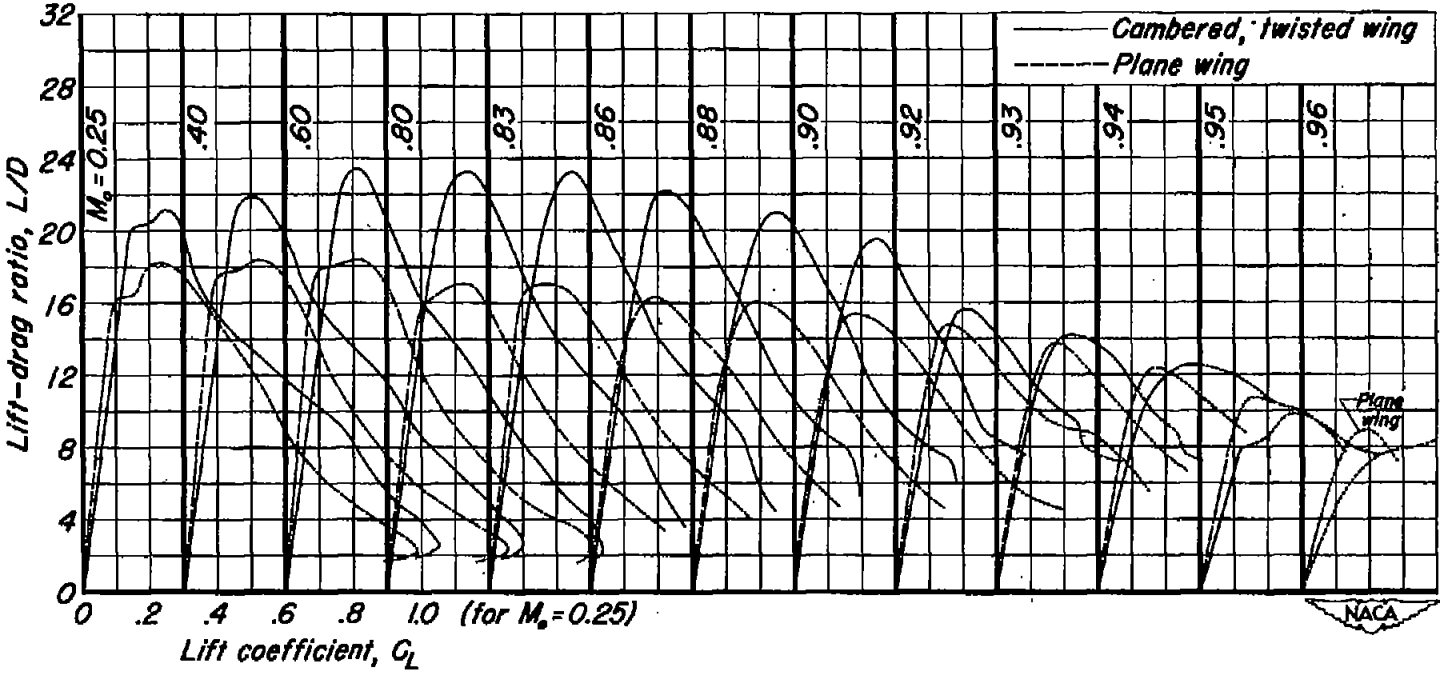
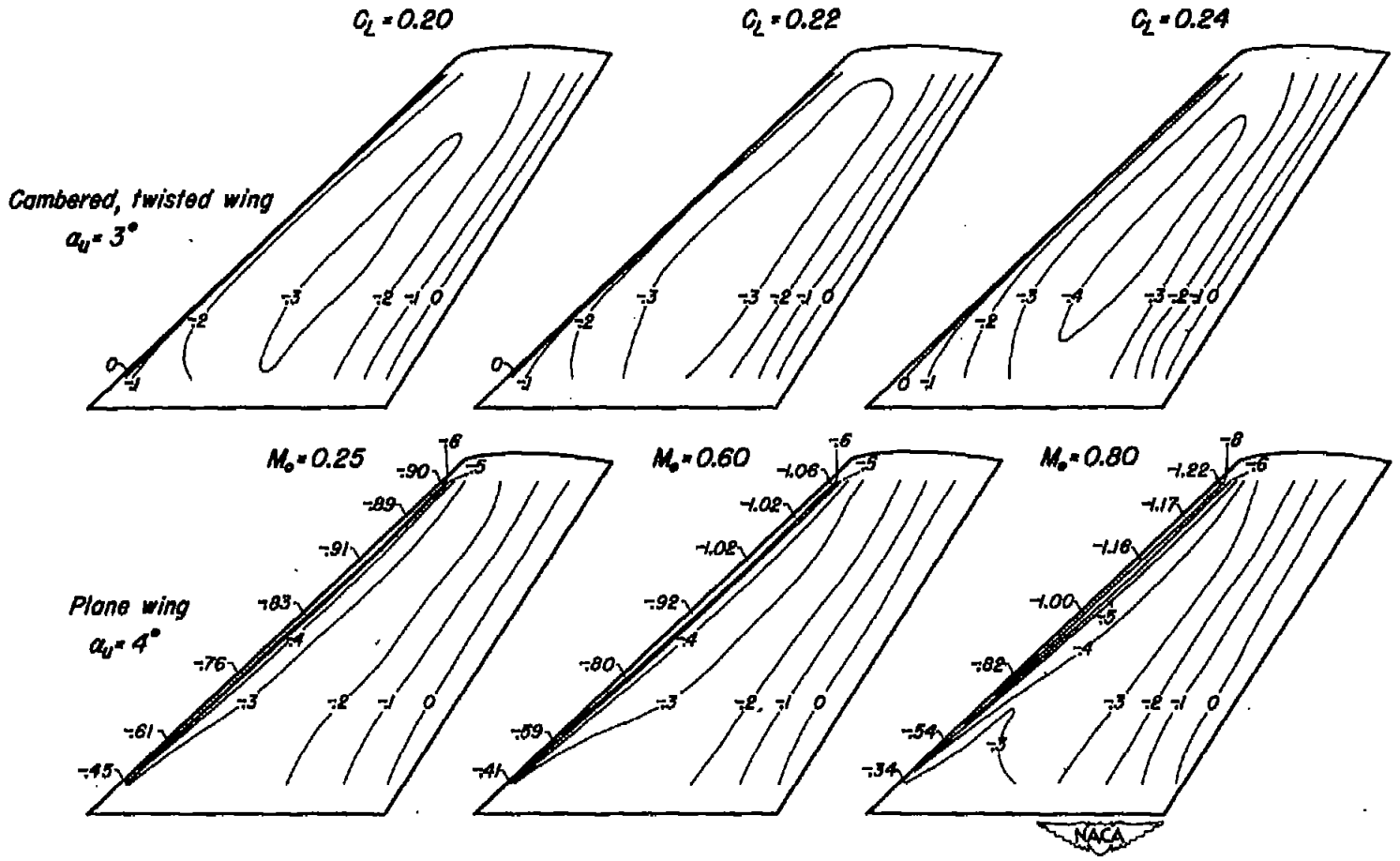


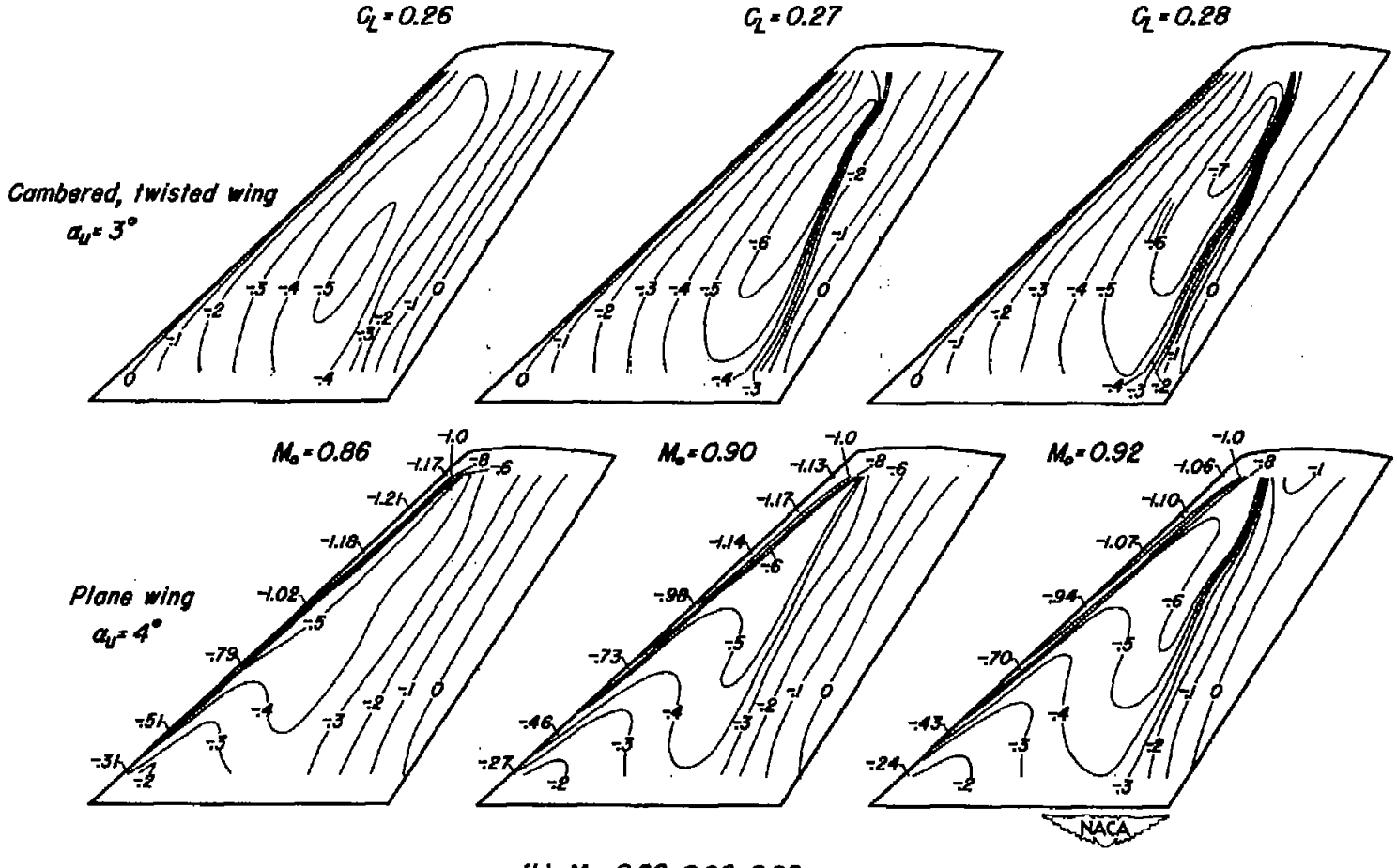
Figure 17.—The effect of Mach number on the lift-drag ratios. R, 4,000,000.

RESTRICTED



(a) M_o, 0.25, 0.60, 0.80

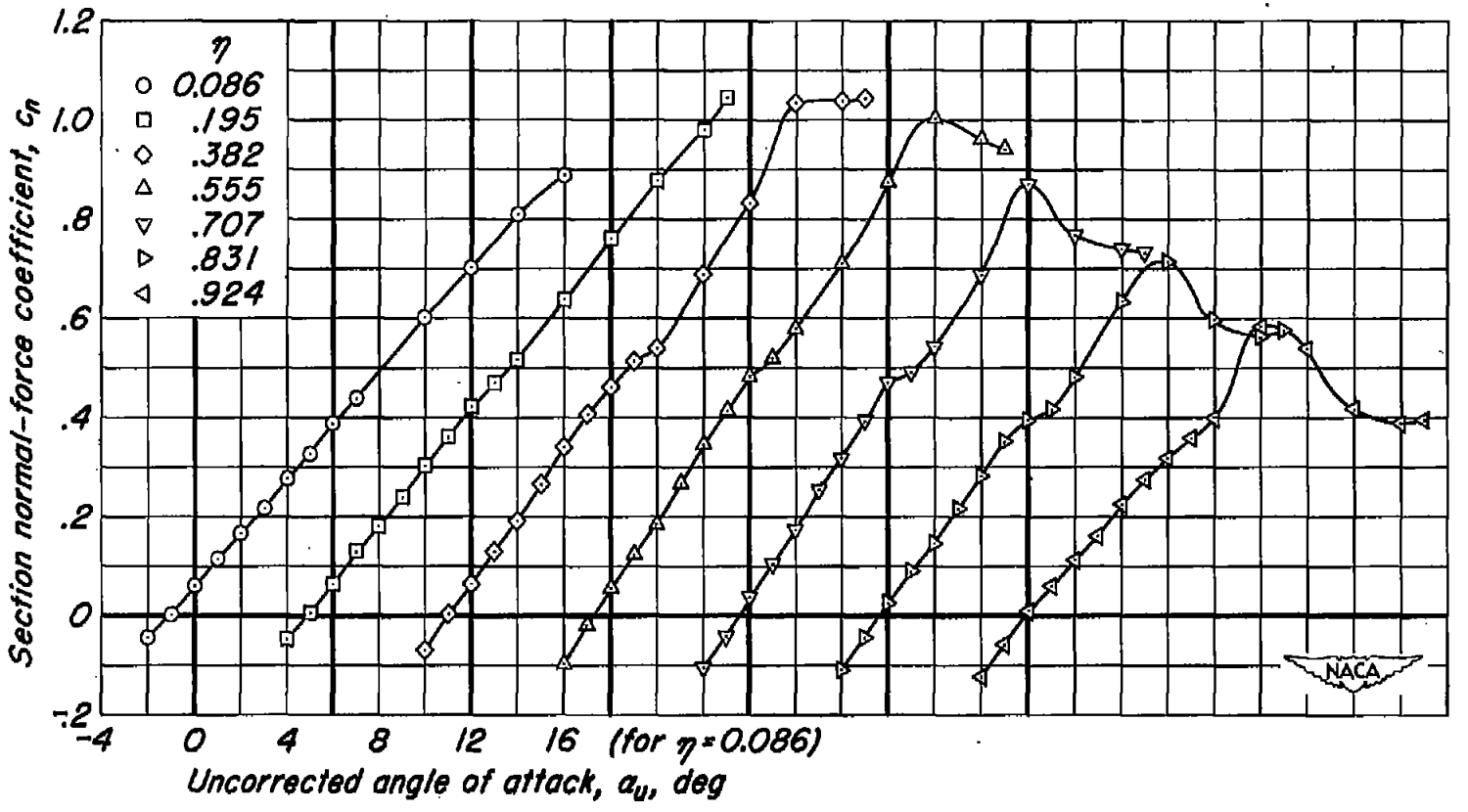
Figure 18.—The lines of constant pressure coefficient on the upper surface of the cambered and twisted wing and the plane wing at the same lift coefficients for several Mach numbers. R, 4,000,000.



(b) M_o, 0.86, 0.90, 0.92

Figure 18.—Concluded.

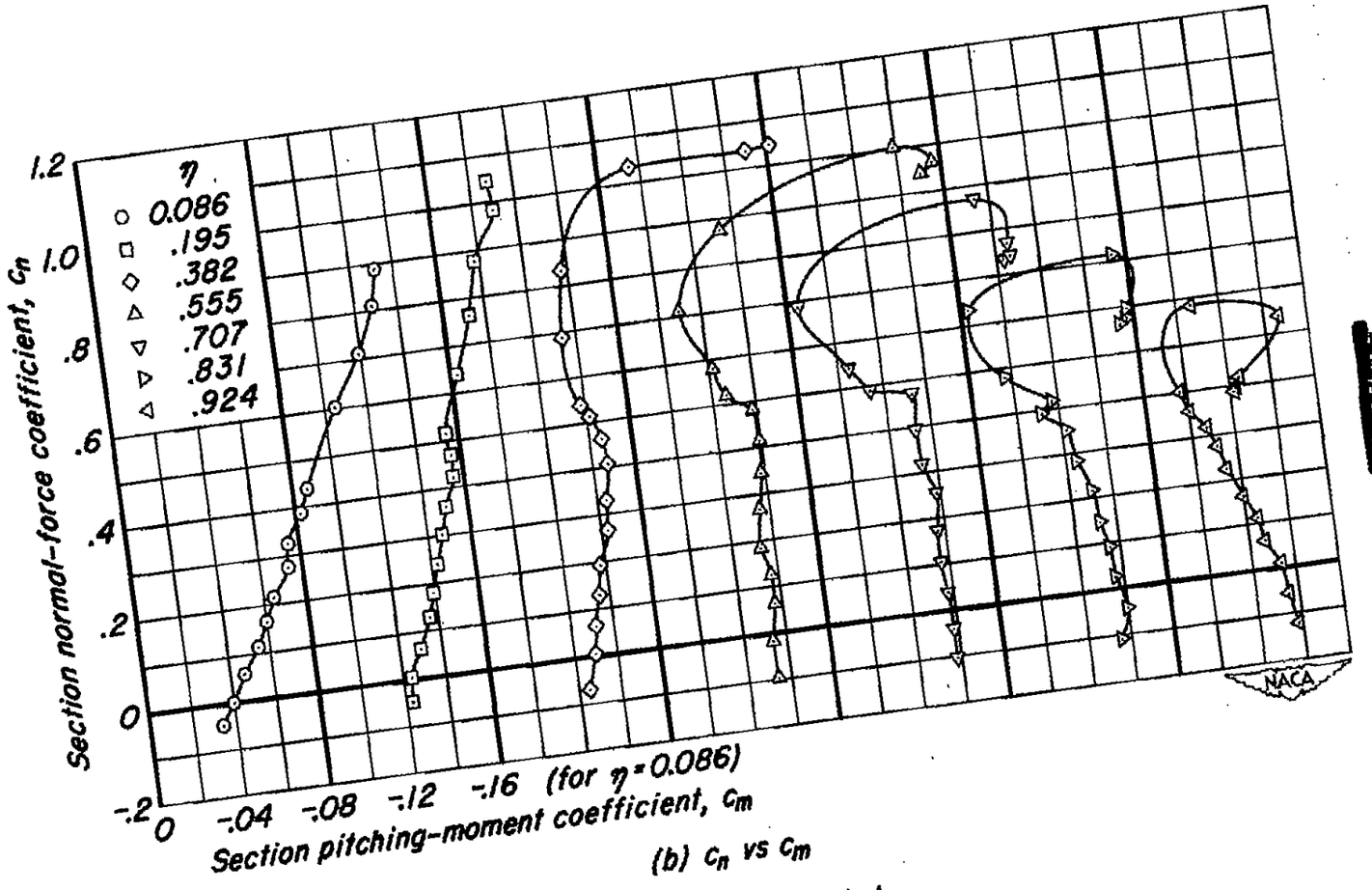
[redacted]



(a) c_n vs α_u

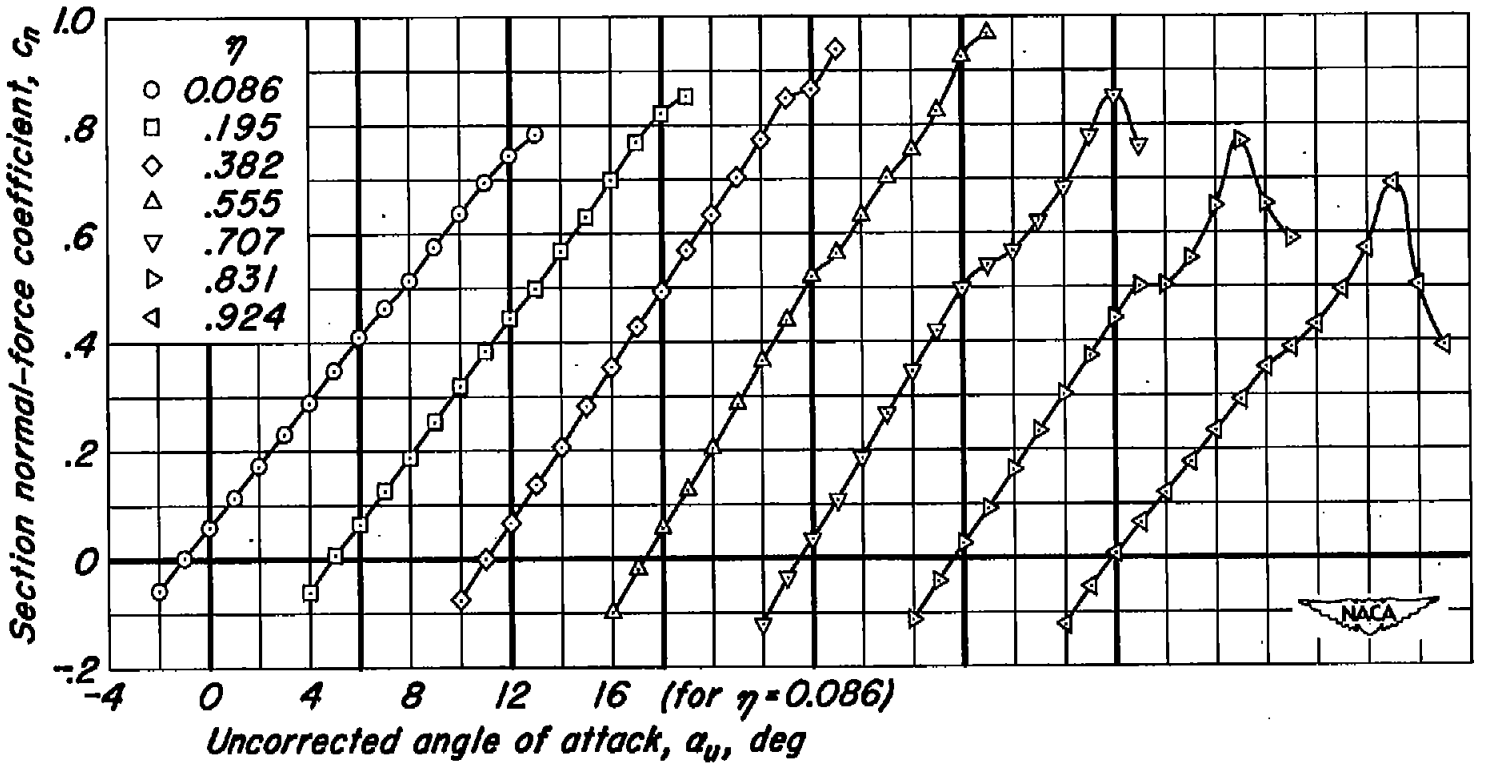
Figure 19.–The section normal-force and section pitching-moment coefficients at seven spanwise stations of the cambered and twisted wing. M_o, 0.80; R, 4,000,000.

[redacted]



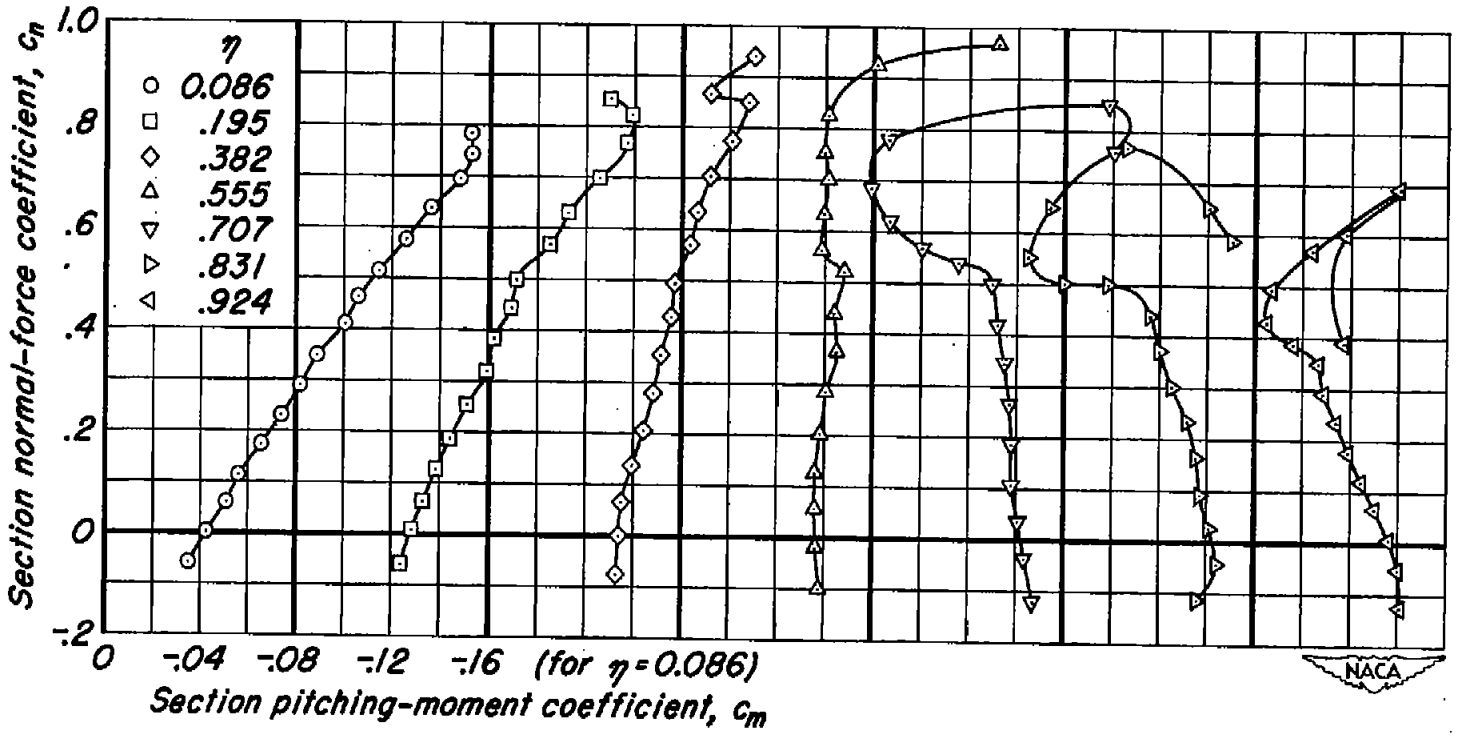
(b) c_n vs c_m

Figure 19.-Concluded.



(a) c_n vs α_u

Figure 20.–The section normal-force and section pitching-moment coefficients at seven spanwise stations of the cambered and twisted wing. M_o, 0.86; R, 4,000,000.



(b) c_n vs c_m

Figure 20.-Concluded.

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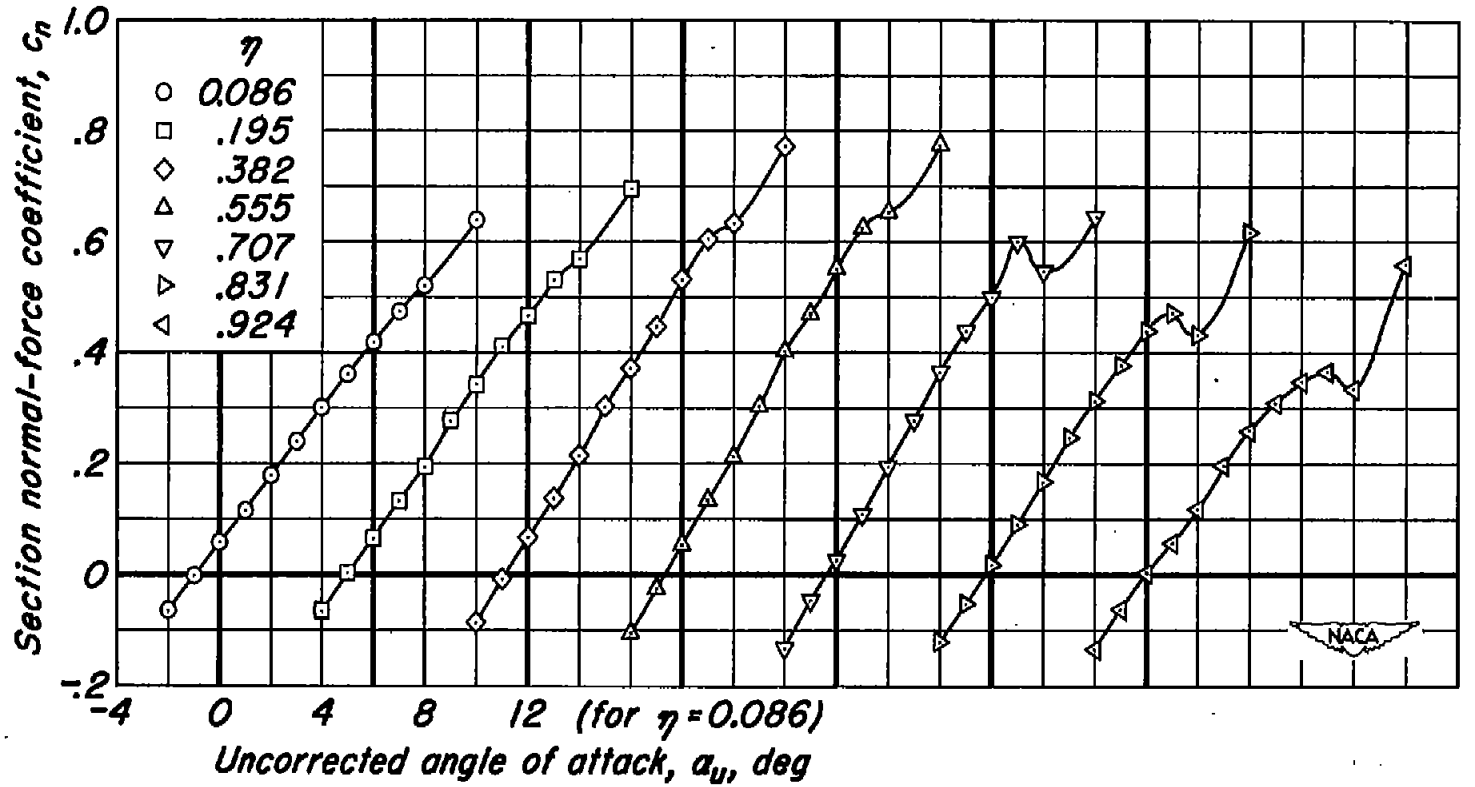
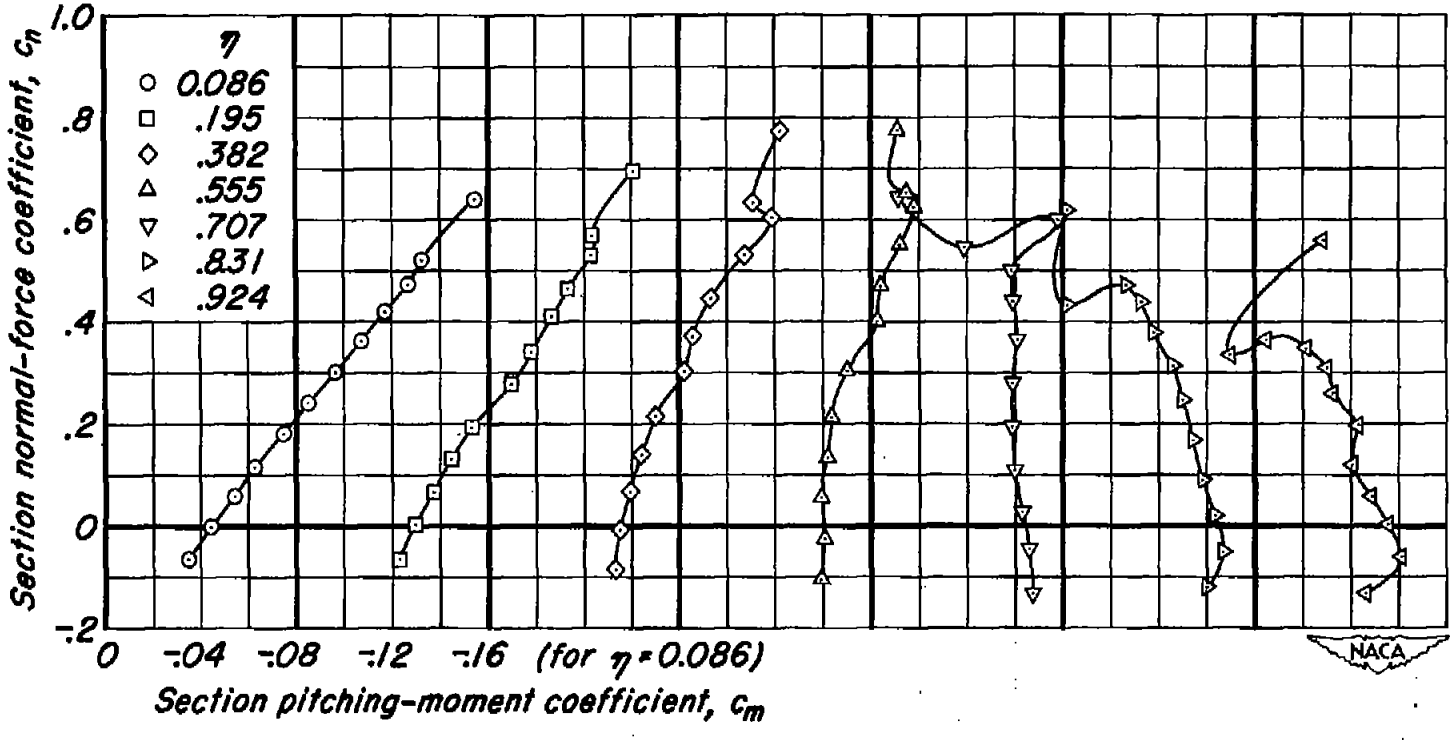


(a) c_n vs α_u

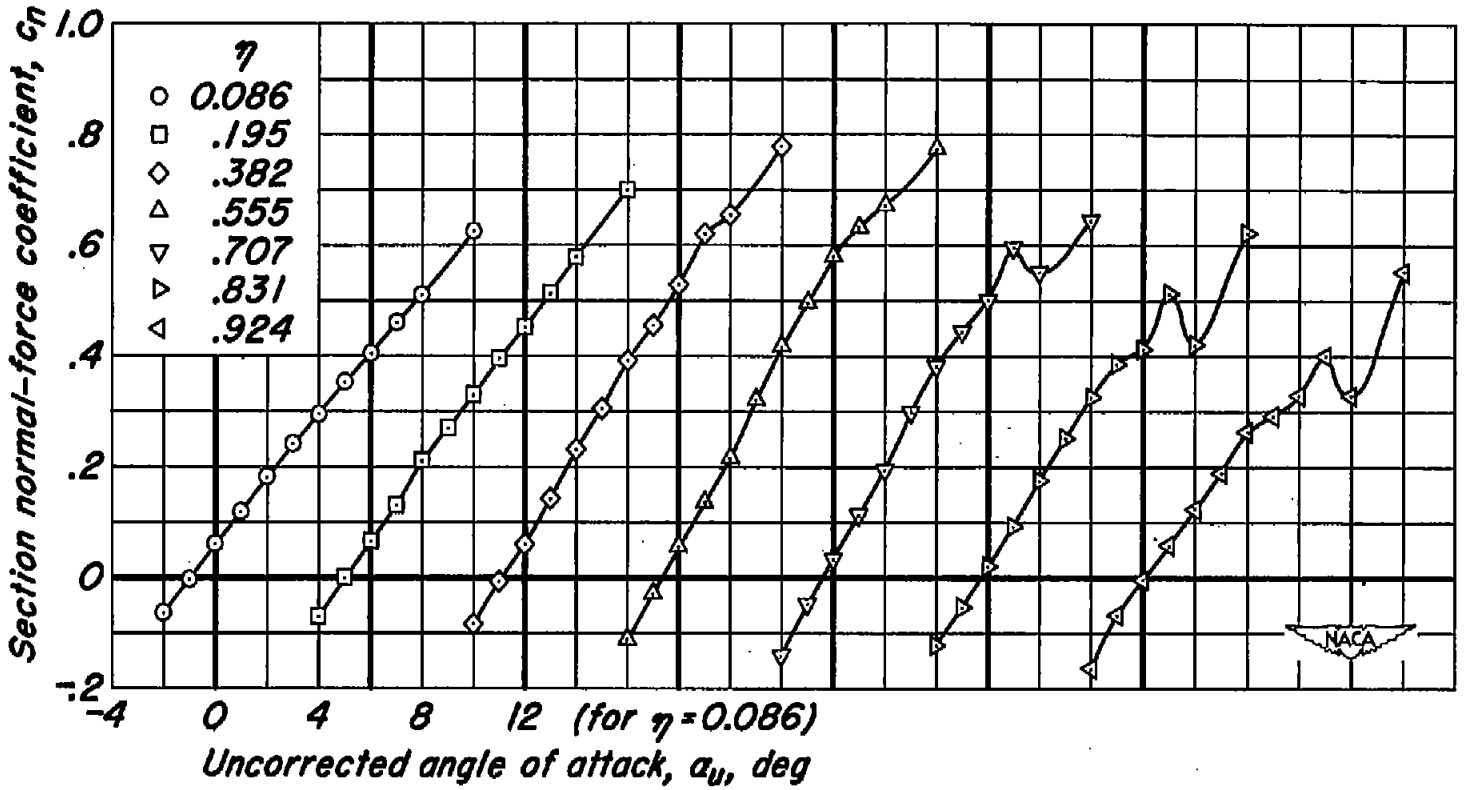
Figure 21.–The section normal-force and section pitching-moment coefficients at seven spanwise stations of the cambered and twisted wing. M_o, 0.90; R, 4,000,000.

RESTRICTED



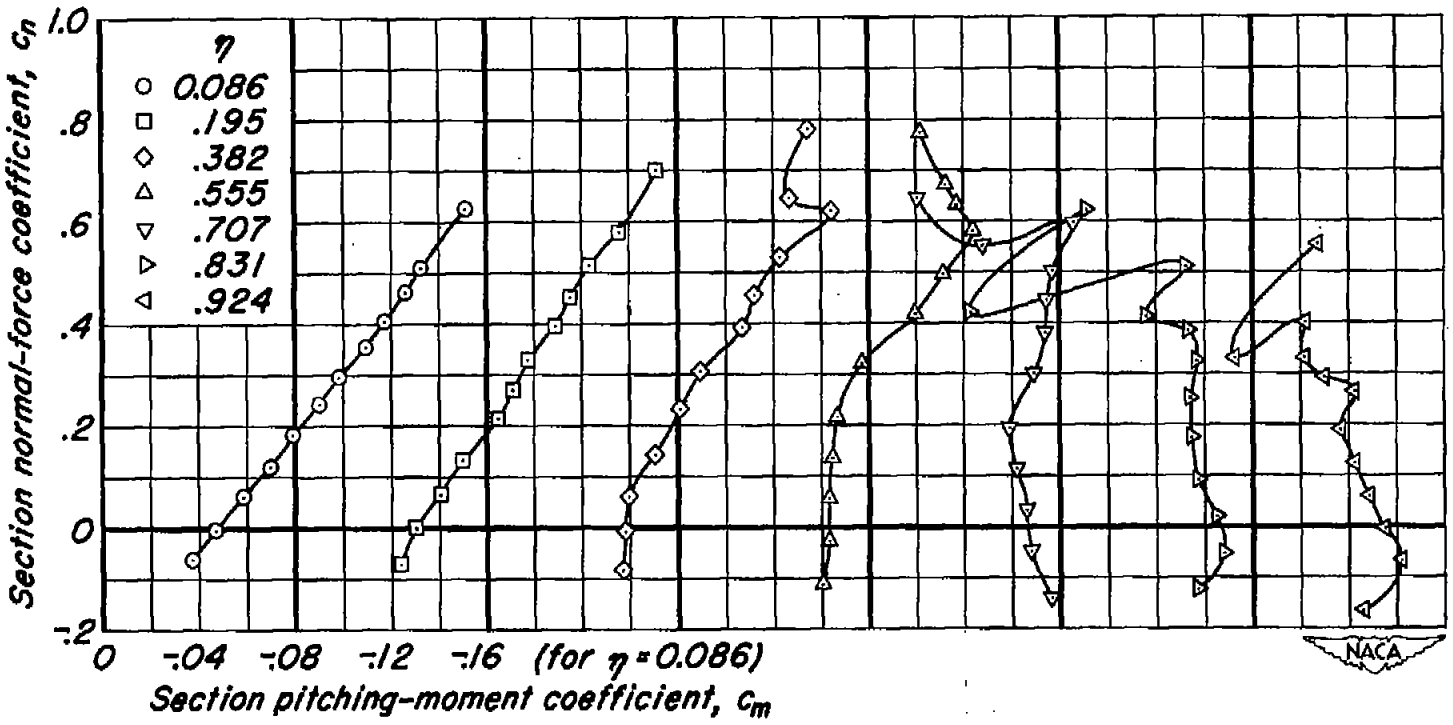
(b) c_n vs c_m

Figure 21.– Concluded.



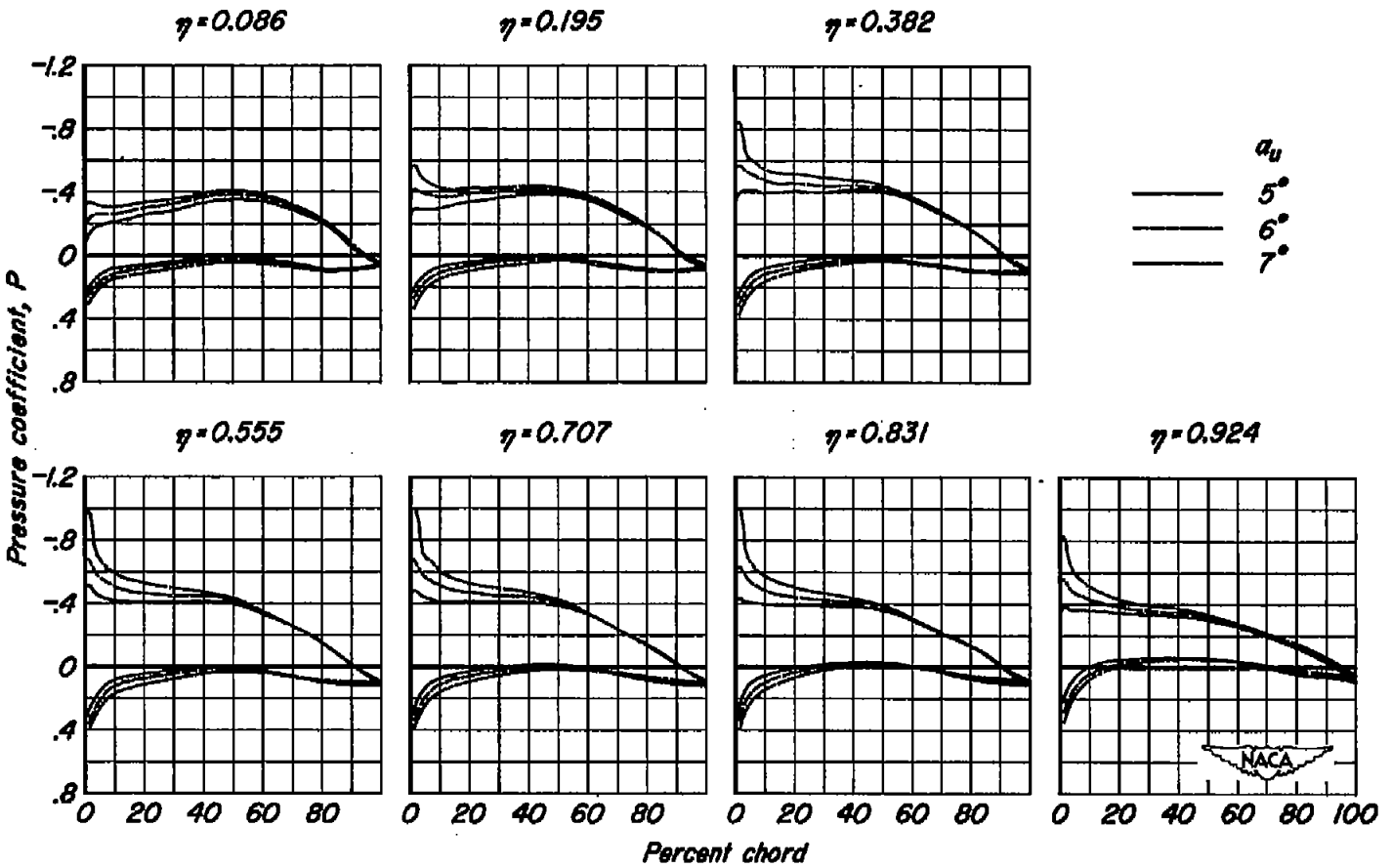
(a) c_n vs α_u

Figure 22.-The section normal-force and section pitching-moment coefficients at seven spanwise stations of the cambered and twisted wing. M_o, 0.92; R, 4,000,000.



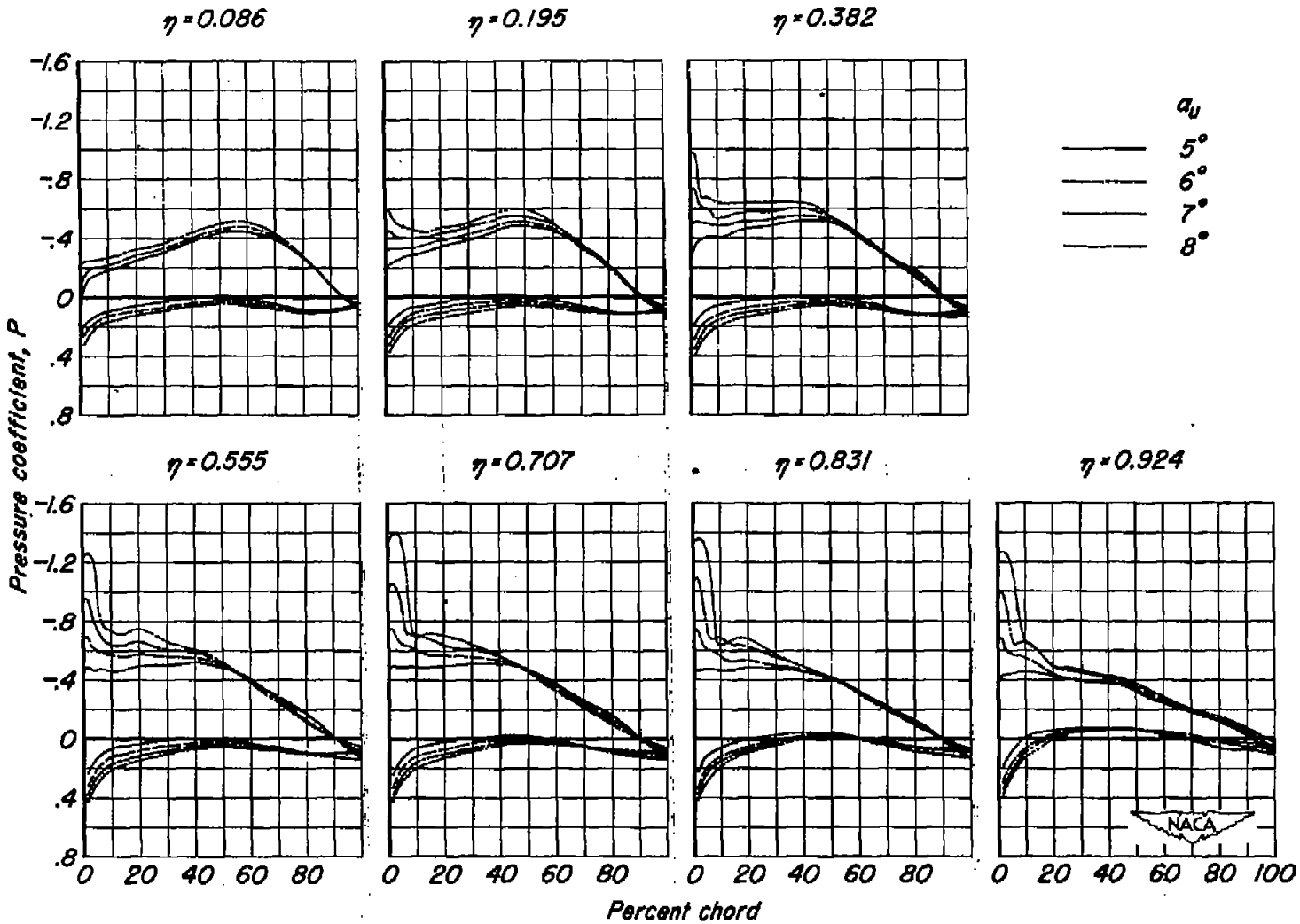
(b) c_n vs c_m

Figure 22.–Concluded.



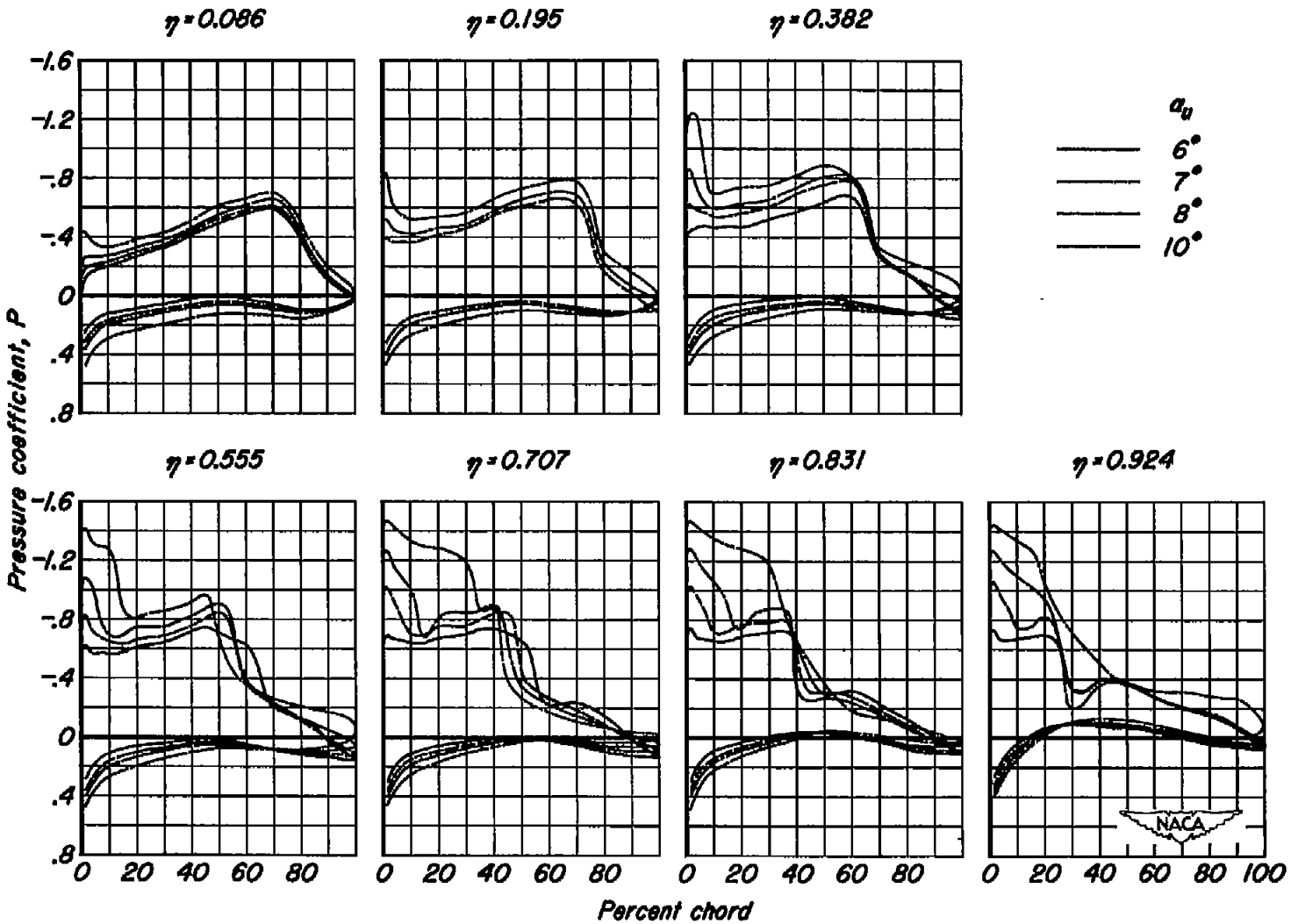
(a) M_o, 0.60

Figure 23.-The chordwise distribution of pressure coefficient at seven spanwise stations of the cambered and twisted wing for several angles of attack. R, 4,000,000.



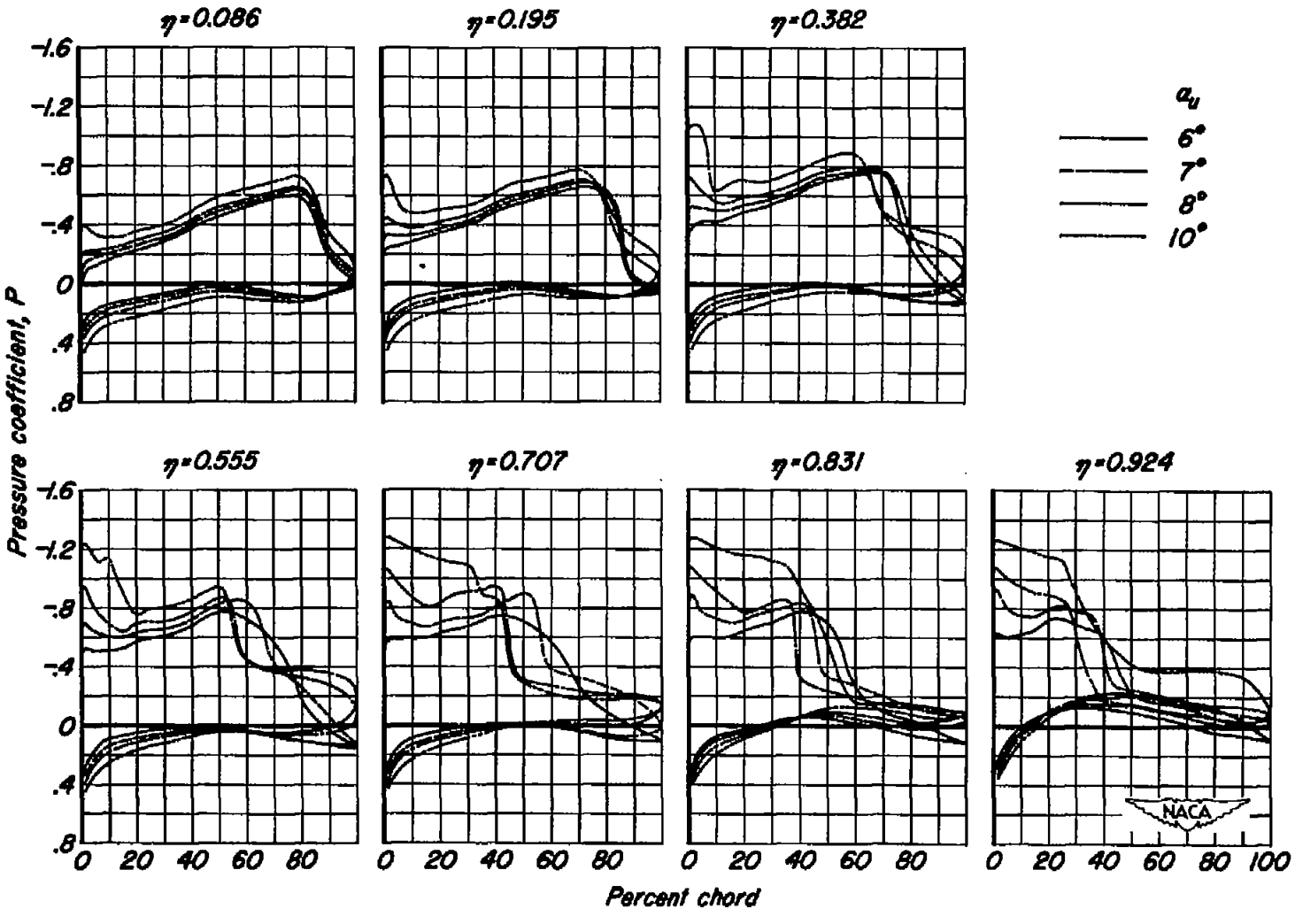
(b) M_o, 0.80

Figure 23.–Continued.



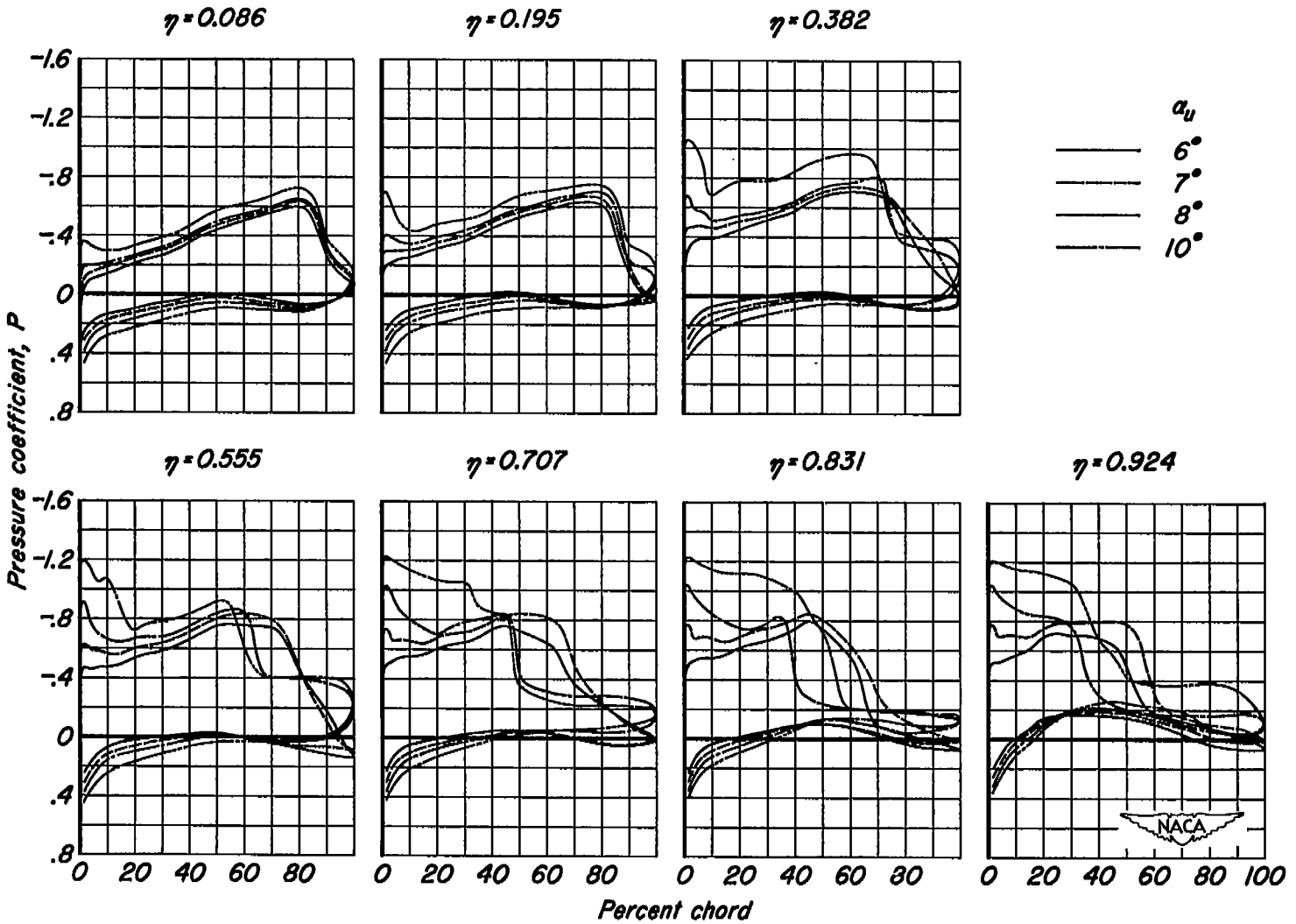
(c) M_∞, 0.86

Figure 23.—Continued.



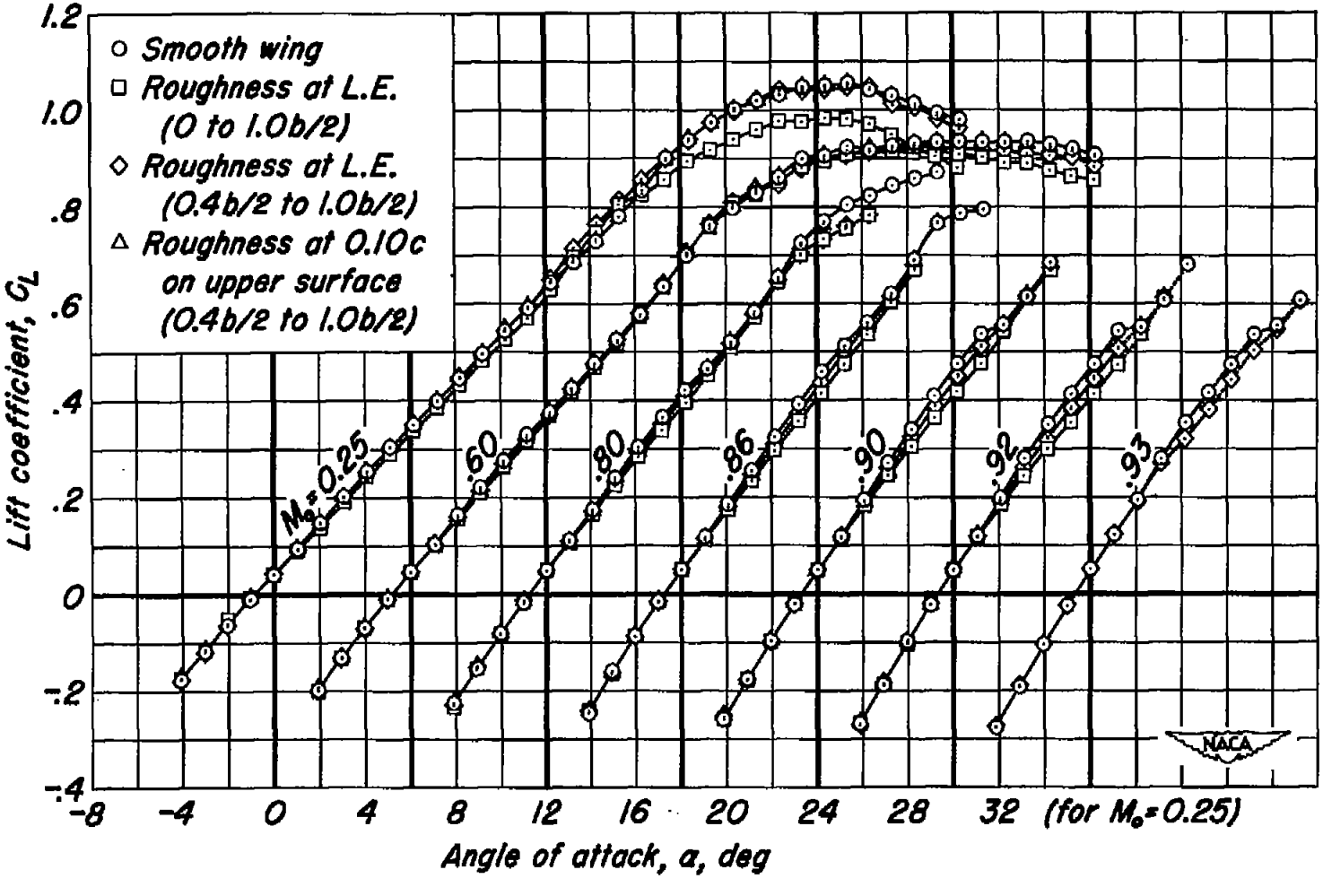
(d) M_∞, 0.90

Figure 23.–Continued.



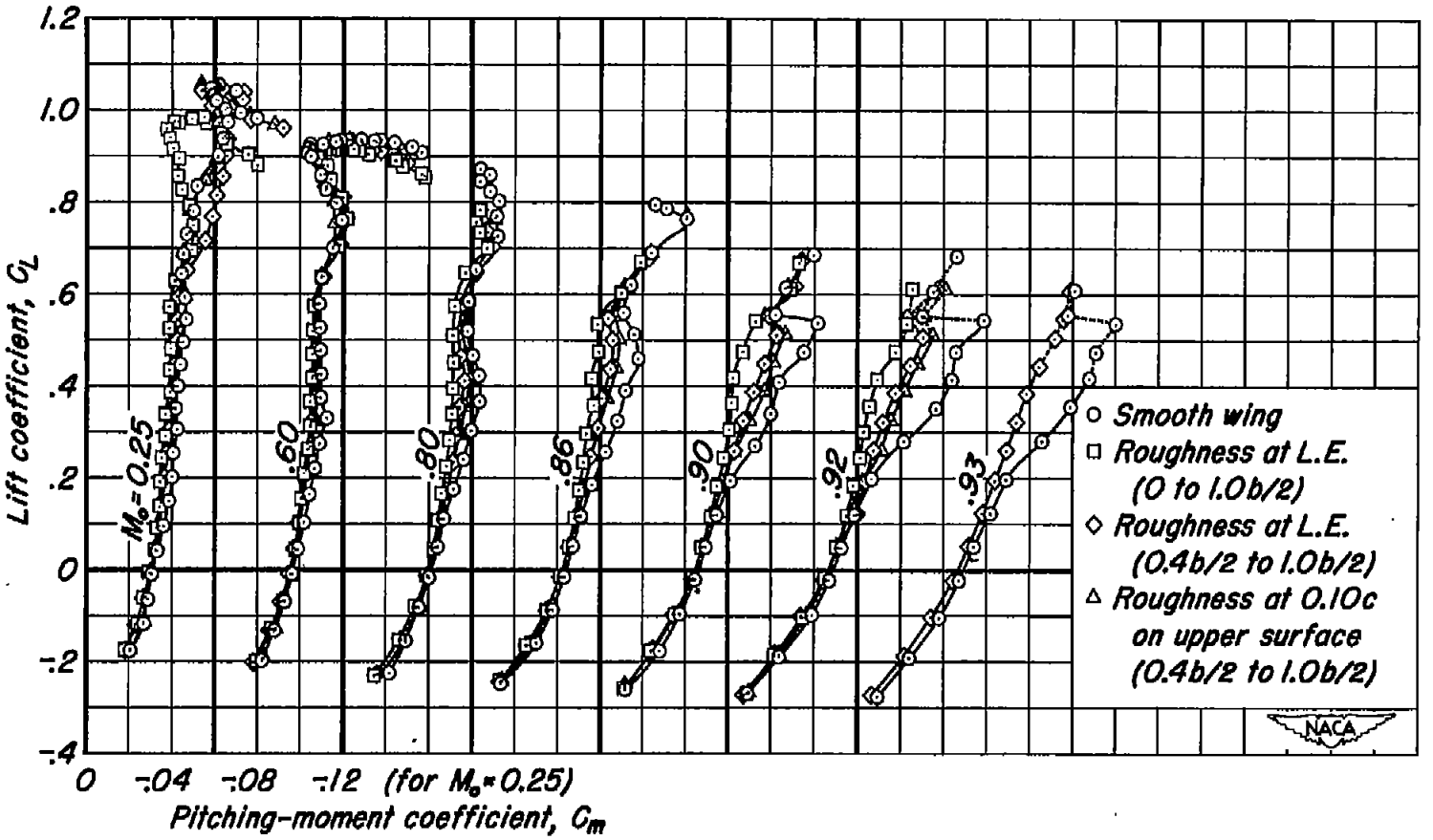
(e) M_o, 0.92

Figure 23.–Concluded.



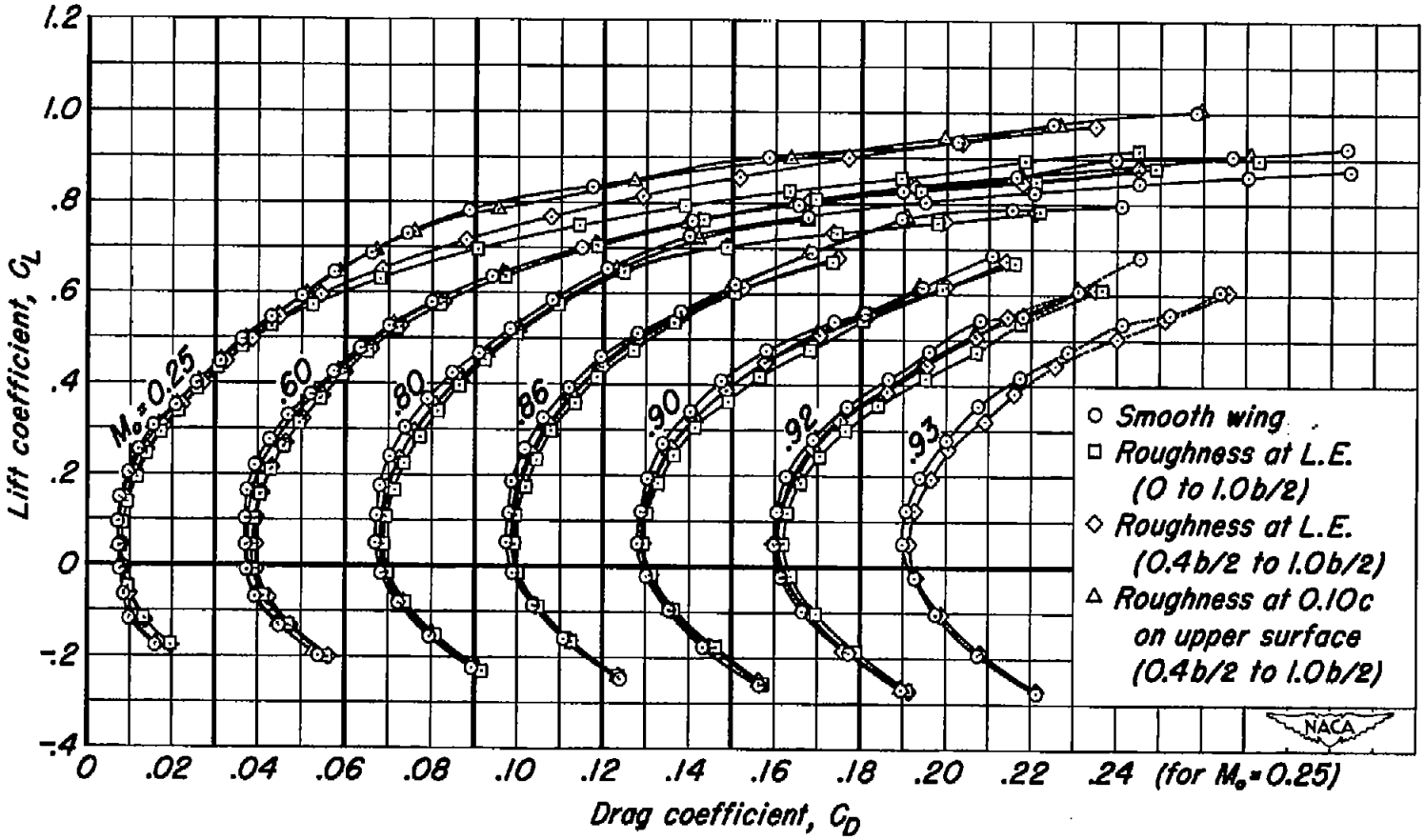
(a) C_L vs α

Figure 24.–The effect of surface roughness on the aerodynamic characteristics of the cambered and twisted wing at several Mach numbers. R, 4,000,000.



(b) C_L vs C_m

Figure 24.-Continued.



(c) C_L vs C_D

Figure 24.–Concluded.