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RESEARCH MEMORANDUM

CHORDWISE PRESSURES AND SECTION FORCE AND MOMENT
COEFFICIENTS AT HIGH SUBSONIC SPEEDS NEAR
MIDSPAN OF A TAPERED 35° SWEEPBACK
WING WITH A FLAP-TYPE CONTROL
AND AN ATTACHED TAB

By Alexander D. Hammond and Barbara M. Keffer

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NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS

WASHINGTON

March 29, 1954





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RESEARCH MEMORANDUM

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SUMMARY

An investigation has been made in the Langley high-speed 7- by 10-foot tunnel through a Mach number range from 0.60 to 0.93 in order to determine the effects on the chordwise pressures and on the section force and moment coefficients near midspan of deflecting a flap-type control with an attached tab on a swept wing. The semispan 35° swept-back wing had an NACA 65A006 airfoil section, an aspect ratio of 4, and a taper ratio of 0.6. The wing was equipped with a 20-percent-chord flap-type control extending from 25 to 75 percent of the semispan with a 6-percent-chord full flap-span attached tab.

The results of the investigation are presented in the form of tabulated pressure coefficients and curves of the variation of the section force and moment coefficients with flap deflection for various tab deflections, angles of attack, and Mach numbers.

INTRODUCTION

The use of flap-type controls on high-speed aircraft has presented the problem of large control forces normally associated with this type of control. The use of an attached tab to reduce the control force has been the subject of investigations at both low and high speeds (for example, ref. 1).

There is, however, very little information concerning the aerodynamic loads on swept wings equipped with flap-type controls with an

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attached tab. In order to obtain information on such loads and on the flow in the vicinity of flap-type controls with attached tabs on swept wings, chordwise-pressure measurements have been made in the Langley high-speed 7- by 10-foot tunnel at one spanwise location on the upper and lower surfaces of a 35° sweptback wing. The semispan wing was equipped with a 20-percent-chord sealed flap-type control extending from 25 to 75 percent semispan with a 6-percent-chord full flap-span attached tab. Pressure distributions over the wing and flap of this investigation without the attached tab have been reported in reference 2.

COEFFICIENTS AND SYMBOLS

c_{n_w} section normal-force coefficient of main airfoil with flap and tab,

$$\frac{1}{c} \int_0^{0.80c} (S_u - S_l) dx + \frac{\cos \delta_f}{c} \int_{0.80c}^{1.00c} (S_u - S_l) dx + \frac{\cos(\delta_f + \delta_t)}{c} \int_{1.00c}^{1.06c} (S_u - S_l) dx$$

c_{n_f} section normal-force coefficient of flap with tab,

$$\frac{1}{0.20c} \int_{0.80c}^{1.00c} (S_u - S_l) dx + \frac{\cos \delta_t}{0.20c} \int_{1.00c}^{1.06c} (S_u - S_l) dx$$

c_{n_t} section normal-force coefficient of tab,

$$\frac{1}{0.06c} \int_{1.00c}^{1.06c} (S_u - S_l) dx$$

$c_{m_c/4}$ section pitching-moment coefficient of main airfoil with flap and tab measured about quarter-chord point,

$$\frac{1}{c^2} \int_0^{0.80c} (S_u - S_l)(0.25c - x) dx + \frac{1}{c^2} \int_{0.80c}^{1.00c} (S_u - S_l)(0.80c - 0.55c \cos \delta_f - x) dx + \frac{1}{c^2} \int_{1.00c}^{1.06c} (S_u - S_l) [1.00c - 0.55c \cos(\delta_f + \delta_t) - 0.20c \cos \delta_t - x] dx$$

- c_{h_f} section hinge-moment coefficient of flap with tab about flap hinge line (0.80c),
- $$\frac{1}{0.04c^2} \int_{0.80c}^{1.00c} (S_u - S_l) (0.80c - x) dx +$$
- $$\frac{1}{0.04c^2} \int_{1.00c}^{1.06c} (S_u - S_l) (1.00c - 0.20c \cos \delta_t - x) dx$$
- c_{h_t} section hinge-moment coefficient of tab about tab hinge line (1.00c),
- $$\frac{1}{0.0036c^2} \int_{1.00c}^{1.06c} (S_u - S_l) (1.00c - x) dx$$
- S pressure coefficient, $\frac{H_0 - p}{q}$
- b wing span, ft
- c local chord, ft
- H_0 total free-stream pressure, lb/sq ft
- M Mach number
- p local static pressure, lb/sq ft
- q free-stream dynamic pressure, lb/sq ft
- x chordwise coordinate measured in planes parallel to plane of symmetry for zero δ_f and δ_t , ft; positive direction is toward trailing edge
- y spanwise distance from plane of symmetry, ft
- z vertical coordinate measured in planes perpendicular to wing chord for zero δ_f and δ_t , ft
- α angle of attack, deg
- δ control deflection, deg

4

Subscripts:

u wing upper surface
 l wing lower surface
 f flap
 t tab
 w wing

Section parameters:

$$(c_{n_w})_{\delta_t} = \left(\frac{\partial c_{n_w}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{n_f})_{\delta_t} = \left(\frac{\partial c_{n_f}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{n_t})_{\delta_t} = \left(\frac{\partial c_{n_t}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{m_c/4})_{\delta_t} = \left(\frac{\partial c_{m_c/4}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{h_f})_{\delta_t} = \left(\frac{\partial c_{h_f}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{h_t})_{\delta_t} = \left(\frac{\partial c_{h_t}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{n_w})_{\delta_f} = \left(\frac{\partial c_{n_w}}{\partial \delta_f} \right)_{\delta_t}$$

$$(c_{n_t})_{\delta_f} = \left(\frac{\partial c_{n_t}}{\partial \delta_f} \right)_{\delta_t}$$

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$$(c_{n_f})_{\delta_f} = \left(\frac{\partial c_{n_f}}{\partial \delta_f} \right)_{\delta_t}$$

$$(c_{m_c/4})_{\delta_f} = \left(\frac{\partial c_{m_c/4}}{\partial \delta_f} \right)_{\delta_t}$$

$$(c_{h_t})_{\delta_f} = \left(\frac{\partial c_{h_t}}{\partial \delta_f} \right)_{\delta_t}$$

$$(c_{h_f})_{\delta_f} = \left(\frac{\partial c_{h_f}}{\partial \delta_f} \right)_{\delta_t}$$

The subscripts δ_f and δ_t outside the parentheses indicate that the factor was held constant. All slopes were measured at 0° angle of attack and near 0° flap or tab deflection.

APPARATUS AND MODEL

The model used in this investigation was a semispan sweptback wing mounted vertically in the Langley high-speed 7- by 10-foot tunnel with the ceiling serving as a reflection plane.

The geometric characteristics and dimensions of the wing are shown in figure 1. The wing was made of steel and had 35° sweepback of the quarter-chord line, an aspect ratio of 4, a taper ratio of 0.6, and had no twist or dihedral. The wing had NACA 65A006 airfoil sections parallel to the free stream.

The pressure orifices were located on the upper and lower surfaces at the 46-percent-semispan station. The chordwise and vertical positions of the orifices are listed in table 1 for zero flap and tab deflection. There is a difference in the chordwise positions of the orifices between the positive and negative flap deflections resulting from the testing technique used in obtaining the data as noted in the tables.

TESTS

All the tests were made in the Langley high-speed 7- by 10-foot tunnel. The data presented in this report are representative of a flap-type control deflected from -30° to 30° with an attached tab deflected from -20° to 20° through a Mach number range from 0.60 to 0.93 at angles of attack from 0° to 20° . However, since the model was symmetrical, it was found convenient to fix the flap at a given positive flap deflection and test through the positive and negative angle-of-attack range and positive and negative tab-deflection range; this procedure explains the differences in the chordwise ordinates given in the tabulated data for the positive and negative flap deflections. The Reynolds number varied from about 3.1×10^6 at $M = 0.60$ to about 4.0×10^6 at $M = 0.93$ when based on the wing mean aerodynamic chord.

PRESENTATION OF DATA

In order to expedite the publication of these data, the pressure coefficients are presented in tabular form without any discussion of the results. Table 2 gives a summary of the flap and tab deflections for which the pressure coefficients are given in tables 3 to 35. Representative chordwise pressure distributions are presented in figure 2 at a Mach number of 0.90, an angle of attack of 0° , and for both positive and negative flap and tab deflection. The tabulated data have been mathematically integrated by using the trapezoidal rule. In the reduction of the data, the contributions of the chord forces, which may be important in some cases, have been neglected in the computation of the section moments and normal forces, since these contributions were found to be small. Curves of the variation of the section normal-force, section pitching-moment, and section hinge-moment coefficients with flap deflection are presented in figures 3 to 8 for the wing, the flap, and the tab for tab deflections from -10° to 10° and for angles of attack from 0° to 20° at Mach numbers of 0.60, 0.80, 0.90, and 0.93. The variation of the effectiveness parameters $c_{n_{w\delta}}$, $c_{n_{f\delta}}$, $c_{n_{t\delta}}$, $c_{m_c/4\delta}$, $c_{h_{f\delta}}$, and $c_{h_{t\delta}}$ with Mach number is given with respect to both flap and tab deflection in figure 9.

Langley Aeronautical Laboratory,
National Advisory Committee for Aeronautics,
Langley Field, Va., January 7, 1954.

REFERENCES

1. Lockwood, Vernard E., and Fikes, Joseph E.: Preliminary Investigation at Transonic Speeds of the Effect of Balancing Tabs on the Hinge-Moment and Other Aerodynamic Characteristics of a Full-Span Flap on a Tapered 45° Sweptback Wing of Aspect Ratio 3. NACA RM L52A23, 1952.
2. Hammond, Alexander D., and Keffer, Barbara M.: The Effect at High Subsonic Speeds of a Flap-Type Aileron on the Chordwise Pressure Distribution Near Midsemispan of a Tapered 35° Sweptback Wing of Aspect Ratio 4 Having NACA 65A006 Airfoil Section. NACA RM L53C23, 1953.

TABLE 1.- CHORDWISE AND VERTICAL COORDINATES FOR ORIFICES

$$\left[\delta_f = 0^\circ; \delta_d = 0^\circ \right]$$

x/c	z/c	x/c	z/c
0	0	0.7400	-0.01837
.0100	.00680	.7500	.01775
.0200	-.00876	.7700	-.01639
.0400	.01180	.7800	.01570
.0600	-.01425	.8100	.01384
.0800	.01638	.8200	-.01334
.1000	-.01824	.8300	.01284
.1500	.02194	.8533	-.01167
.2133	-.02531	.8733	.01067
.2533	.02728	.8833	-.01017
.3033	-.02849	.9033	.00916
.3533	.02948	.9133	-.00866
.4167	-.02995	.9333	.00766
.4567	.02983	.9433	-.00716
.5067	-.02907	.9633	.00616
.5567	.02767	.9733	-.00566
.5867	-.02653	.9833	.00515
.6300	.02460	.9933	-.00465
.6500	-.02364	1.0033	.00415
.6700	.02253	1.0133	.00365
.6800	-.02198	1.0233	-.00315
.6900	.02142	1.0333	.00265
.7100	-.02025	1.0433	-.00215
.7200	.01962	1.0533	.00165
.7300	.01900	1.0583	-.00140

TABLE 2.- INDEX TO TABULATED DATA

Table	δ_f	δ_t	Table	δ_f	δ_t
3	0	0	20	30	-10
4	0	10	21	30	-20
5	0	20	22	-10	0
6	0	-10	23	-10	10
7	0	-20	24	-10	20
8	10	0	25	-10	-10
9	10	10	26	-10	-20
10	10	20	27	-20	0
11	10	-10	28	-20	10
12	10	-20	29	-20	20
13	20	0	30	-20	-10
14	20	10	31	-20	-20
15	20	20	32	-30	0
16	20	-10	33	-30	10
17	20	-20	34	-30	20
18	30	0	35	-30	-20
19	30	20			

TABLE 3. — PRESSURE COEFFICIENTS AT 0.46 SEMISPAN

$(\beta_f = 0^\circ ; \delta_f = 0)$

M=060

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.469	.968	1.501	2.351	2.128	1.990
.0100	1.170	2.457	2.093	3.138	1.986	1.849
.0200	1.218	.735	2.550	.443	.395	1.371
.0400	1.213	1.726	2.035	2.020	1.974	1.853
.0600	1.218	.684	2.696	.563	1.478	.423
.0800	1.223	1.573	1.992	1.996	1.967	1.862
.1000	1.237	.967	2.797	.653	.565	.508
.1200	1.238	1.460	1.646	1.930	1.943	1.853
.1400	1.261	1.073	2.732	.806	.728	.671
.1600	1.265	1.427	1.970	1.838	1.908	1.855
.1800	1.285	1.108	2.896	.897	.818	.767
.2000	1.265	1.402	1.553	1.752	1.884	1.829
.2200	1.263	1.150	1.054	.963	.908	.870
.2400	1.290	1.377	1.494	1.627	1.671	1.631
.2600	1.261	1.156	1.081	1.009	.974	.944
.2800	1.223	1.212	1.739	1.590	1.858	1.806
.3000	1.248	1.164	1.101	1.053	1.023	1.003
.3200	1.232	1.288	1.370	1.073	1.842	.772
.3400	1.220	1.147	1.096	1.052	1.047	1.041
.3600	1.206	1.256	1.338	1.500	1.826	1.723
.3800	1.213	1.144	1.157	1.064	1.064	1.055
.4000	1.218	1.253	1.334	1.501	1.848	1.781
.4200	1.187	1.134	1.094	1.060	1.080	1.079
.4400	1.187	1.239	1.317	1.469	1.810	1.770
.4600	1.158	1.111	1.074	1.054	1.074	1.081
.4800	1.166	1.207	1.278	1.448	1.794	1.761
.5000	1.108	1.087	1.093	1.076	1.074	1.085
.5200	1.143	1.179	1.247	1.421	1.754	1.768
.5400	1.123	1.158	1.224	1.401	1.764	1.759
.5600	1.128	1.067	1.216	1.388	1.754	1.744
.5800	1.104	1.073	1.053	1.060	1.075	1.075
.6000	1.123	1.144	1.193	1.366	1.730	1.744
.6200	1.099	1.099	1.073	1.052	1.074	1.080
.6400	1.090	1.068	1.057	1.082	1.167	1.167
.6600	1.073	1.087	1.123	1.357	1.710	1.718
.6800	1.086	1.069	1.065	1.103	1.206	1.255
.7000	1.098	1.111	1.146	1.299	1.686	1.723
.7200	1.082	1.068	1.066	1.116	1.255	1.310
.7400	1.094	1.104	1.136	1.286	1.670	1.718
.7600	1.070	1.036	1.058	1.118	1.243	1.348
.7800	1.072	1.074	1.124	1.278	1.677	1.694
.8000	1.044	1.037	1.055	1.138	1.337	1.381
.8200	1.074	1.071	1.118	1.270	1.666	1.677
.8400	1.054	1.054	1.080	1.190	1.461	1.499
.8600	1.047	1.048	1.077	1.187	1.432	1.479
.8800	1.052	1.055	1.095	1.248	1.618	1.675

M=080

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.523	.803	1.252	1.609	1.895	2.061
.0100	1.204	2.387	2.947	2.901	2.902	1.937
.0200	1.342	.832	2.910	.502	.443	.420
.0400	1.275	1.330	2.624	2.195	2.017	1.954
.0600	1.314	.970	2.765	.635	.544	.488
.0800	1.296	1.680	2.659	2.185	2.020	1.951
.1000	1.335	1.059	2.856	.729	.631	.567
.1200	1.322	1.603	2.300	2.143	1.961	1.902
.1400	1.369	1.167	2.999	.843	.788	.724
.1600	1.346	1.550	1.768	2.074	1.942	1.893
.1800	1.379	1.211	1.071	.967	.884	.826
.2000	1.377	1.537	1.642	2.020	1.917	1.886
.2200	1.388	1.255	1.137	1.050	.976	.930
.2400	1.399	1.618	1.658	1.999	1.940	1.859
.2600	1.372	1.266	1.166	1.099	1.045	1.009
.2800	1.363	1.452	1.489	1.927	1.866	1.866
.3000	1.326	1.398	1.428	1.696	1.648	1.664
.3200	1.313	1.243	1.182	1.151	1.123	1.113
.3400	1.295	1.333	1.398	1.972	1.840	1.839
.3600	1.305	1.071	1.282	1.163	1.144	1.137
.3800	1.301	1.343	1.394	1.890	1.846	1.859
.4000	1.288	1.226	1.182	1.170	1.125	1.156
.4200	1.295	1.378	1.397	1.938	1.812	1.855
.4400	1.263	1.306	1.346	1.818	1.743	1.847
.4600	1.242	1.198	1.157	1.151	1.146	1.154
.4800	1.225	1.221	1.337	1.609	1.513	1.649
.5000	1.222	1.258	1.305	1.732	1.622	1.806
.5200	1.200	1.233	1.281	1.571	1.588	1.780
.5400	1.177	1.154	1.137	1.158	1.182	1.206
.5600	1.170	1.154	1.139	1.171	1.208	1.241
.5800	1.182	1.201	1.238	1.646	1.739	1.821
.6000	1.162	1.150	1.146	1.188	1.235	1.276
.6200	1.167	1.193	1.197	1.337	1.314	1.367
.6400	1.152	1.149	1.152	1.208	1.270	1.316
.6600	1.153	1.177	1.214	1.295	1.313	1.365
.6800	1.141	1.141	1.156	1.282	1.282	1.316
.7000	1.151	1.169	1.206	1.565	1.692	1.799
.7200	1.142	1.148	1.172	1.275	1.368	1.434
.7400	1.142	1.151	1.195	1.578	1.717	1.821
.7600	1.143	1.141	1.194	1.267	1.370	1.458
.7800	1.108	1.107	1.136	1.267	1.390	1.448
.8000	1.113	1.139	1.185	1.563	1.708	1.813
.8200	1.103	1.117	1.168	1.279	1.314	1.359
.8400	1.105	1.117	1.168	1.507	1.666	1.787
.8600	1.110	1.126	1.185	1.487	1.653	1.782

M=090

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.567	.726	1.049	1.334	1.530	1.634
.0100	1.386	2.959	2.042	2.530	2.572	1.930
.0200	1.524	2.169	2.486	2.456	2.456	1.930
.0400	1.343	1.796	2.404	2.560	2.560	1.930
.0600	1.416	1.121	.941	.800	.800	.800
.0800	1.378	1.684	2.009	2.224	2.224	1.930
.1000	1.381	1.241	1.849	2.085	2.085	1.930
.1200	1.416	1.668	2.230	2.175	2.175	1.930
.1400	1.496	1.289	1.558	1.043	1.043	1.043
.1600	1.473	1.681	1.893	2.105	2.105	1.930
.1800	1.524	1.349	1.230	1.134	1.134	1.134
.2000	1.511	1.722	1.925	2.045	2.045	1.930
.2200	1.508	1.269	1.272	1.194	1.194	1.194
.2400	1.474	1.739	1.907	1.974	1.974	1.930
.2600	1.472	1.374	1.299	1.238	1.238	1.238
.2800	1.419	1.545	1.843	1.942	1.942	1.930
.3000	1.408	1.343	1.294	1.260	1.260	1.260
.3200	1.375	1.436	1.718	1.922	1.922	1.930
.3400	1.389	1.338	1.289	1.275	1.275	1.275
.3600	1.366	1.325	1.288	1.256	1.256	1.256
.3800	1.349	1.383	1.568	1.894	1.894	1.894
.4000	1.336	1.269	1.340	1.877	1.877	1.877
.4200	1.381	1.241	1.258	1.698	1.698	1.698
.4400	1.319	1.350	1.495	1.873	1.873	1.873
.4600	1.264	1.248	1.228	1.249	1.249	1.249
.4800	1.258	1.190	1.190	1.809	1.809	1.809
.5000	1.237	1.223	1.209	1.242	1.242	1.242
.5200	1.266	1.283	1.265	1.800	1.800	1.800
.5400	1.253	1.266	1.231	1.757	1.757	1.757
.5600	1.227	1.225	1.220	1.285	1.285	1.285
.5800	1.219	1.245	1.220	1.746	1.746	1.746
.6000	1.219	1.219	1.220	1.306	1.306	1.306
.6200	1.220	1.230	1.264	1.724	1.724	1.724
.6400	1.215	1.217	1.223	1.282	1.282	1.282
.6600	1.216	1.211	1.221	1.318	1.318	1.318
.6800	1.204	1.208	1.221	1.356	1.356	1.356
.7000	1.212	1.211	1.234	1.669	1.669	1.669
.7200	1.204	1.204	1.221	1.317	1.317	1.317
.7400	1.191	1.195	1.223	1.705	1.705	1.705
.7600	1.193	1.197	1.218	1.684	1.684	1.684
.7800	1.151	1.160	1.186	1.391	1.391	1.391
.8000	1.181	1.189	1.209	1.477	1.477	1.477
.8200	1.155	1.173	1.206	1.496	1.496	1.496
.8400	1.157	1.161	1.192	1.642	1.642	1.642
.8600	1.163	1.173	1.211	1.629	1.629	1.629

M=093

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.585	.713	1.073	1.373	1.573	1.673
.0100	1.423	2.948	2.042	2.530	2.572	1.930
.0200	1.561	2.126	2.486	2.456	2.456	1.930
.0400	1.420	1.796	2.404	2.560	2.560	1.930
.0600	1.476	1.121	.941	.800	.800	.800
.0800	1.438	1.684	2.009	2.224	2.224	1.930
.1000	1.441	1.241	1.849	2.085	2.085	1.930
.1200	1.476	1.668	2.230	2.175	2.175	1.930
.1400	1.496	1.289	1.558	1.043	1.043	1.043
.1600	1.473	1.681	1.893	2.105	2.105	1.930
.1800	1.524	1.349	1.230	1.134	1.134	1.134
.2000	1.511	1.722	1.925	2.045	2.045	1.930
.2200	1.508	1.269	1.272	1.194	1.194	1.194
.2400	1.474	1.739	1.907	1.974	1.974	1.930
.2600	1.472	1.374	1.299	1.238	1.238	1.238
.2800	1.419	1.545	1.843	1.942	1.942	1.930
.3000	1.408	1.343	1.294	1.260	1.260	1.260</

TABLE 5. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\delta_f=0^\circ$; $\delta_r=20^\circ$)

$M=0.60$

$\frac{X}{C}$ (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.00000	1.450	1.055	1.265	2.375	2.218	1.933
.01000	1.425	1.050	1.256	2.339	2.038	1.963
.02000	1.414	1.049	1.251	2.318	2.039	1.971
.03000	1.421	1.051	1.251	2.318	2.039	1.971
.04000	1.428	1.053	1.252	2.320	2.040	1.972
.05000	1.435	1.055	1.253	2.322	2.041	1.973
.06000	1.442	1.057	1.254	2.324	2.042	1.974
.07000	1.449	1.059	1.255	2.326	2.043	1.975
.08000	1.456	1.061	1.256	2.328	2.044	1.976
.09000	1.463	1.063	1.257	2.330	2.045	1.977
.10000	1.470	1.065	1.258	2.332	2.046	1.978
.11000	1.477	1.067	1.259	2.334	2.047	1.979
.12000	1.484	1.069	1.260	2.336	2.048	1.980
.13000	1.491	1.071	1.261	2.338	2.049	1.981
.14000	1.498	1.073	1.262	2.340	2.050	1.982
.15000	1.505	1.075	1.263	2.342	2.051	1.983
.16000	1.512	1.077	1.264	2.344	2.052	1.984
.17000	1.519	1.079	1.265	2.346	2.053	1.985
.18000	1.526	1.081	1.266	2.348	2.054	1.986
.19000	1.533	1.083	1.267	2.350	2.055	1.987
.20000	1.540	1.085	1.268	2.352	2.056	1.988
.21000	1.547	1.087	1.269	2.354	2.057	1.989
.22000	1.554	1.089	1.270	2.356	2.058	1.990
.23000	1.561	1.091	1.271	2.358	2.059	1.991
.24000	1.568	1.093	1.272	2.360	2.060	1.992
.25000	1.575	1.095	1.273	2.362	2.061	1.993
.26000	1.582	1.097	1.274	2.364	2.062	1.994
.27000	1.589	1.099	1.275	2.366	2.063	1.995
.28000	1.596	1.101	1.276	2.368	2.064	1.996
.29000	1.603	1.103	1.277	2.370	2.065	1.997
.30000	1.610	1.105	1.278	2.372	2.066	1.998
.31000	1.617	1.107	1.279	2.374	2.067	1.999
.32000	1.624	1.109	1.280	2.376	2.068	2.000
.33000	1.631	1.111	1.281	2.378	2.069	2.001
.34000	1.638	1.113	1.282	2.380	2.070	2.002
.35000	1.645	1.115	1.283	2.382	2.071	2.003
.36000	1.652	1.117	1.284	2.384	2.072	2.004
.37000	1.659	1.119	1.285	2.386	2.073	2.005
.38000	1.666	1.121	1.286	2.388	2.074	2.006
.39000	1.673	1.123	1.287	2.390	2.075	2.007
.40000	1.680	1.125	1.288	2.392	2.076	2.008
.41000	1.687	1.127	1.289	2.394	2.077	2.009
.42000	1.694	1.129	1.290	2.396	2.078	2.010
.43000	1.701	1.131	1.291	2.398	2.079	2.011
.44000	1.708	1.133	1.292	2.400	2.080	2.012
.45000	1.715	1.135	1.293	2.402	2.081	2.013
.46000	1.722	1.137	1.294	2.404	2.082	2.014
.47000	1.729	1.139	1.295	2.406	2.083	2.015
.48000	1.736	1.141	1.296	2.408	2.084	2.016
.49000	1.743	1.143	1.297	2.410	2.085	2.017
.50000	1.750	1.145	1.298	2.412	2.086	2.018
.51000	1.757	1.147	1.299	2.414	2.087	2.019
.52000	1.764	1.149	1.300	2.416	2.088	2.020
.53000	1.771	1.151	1.301	2.418	2.089	2.021
.54000	1.778	1.153	1.302	2.420	2.090	2.022
.55000	1.785	1.155	1.303	2.422	2.091	2.023
.56000	1.792	1.157	1.304	2.424	2.092	2.024
.57000	1.799	1.159	1.305	2.426	2.093	2.025
.58000	1.806	1.161	1.306	2.428	2.094	2.026
.59000	1.813	1.163	1.307	2.430	2.095	2.027
.60000	1.820	1.165	1.308	2.432	2.096	2.028
.61000	1.827	1.167	1.309	2.434	2.097	2.029
.62000	1.834	1.169	1.310	2.436	2.098	2.030
.63000	1.841	1.171	1.311	2.438	2.099	2.031
.64000	1.848	1.173	1.312	2.440	2.100	2.032
.65000	1.855	1.175	1.313	2.442	2.101	2.033
.66000	1.862	1.177	1.314	2.444	2.102	2.034
.67000	1.869	1.179	1.315	2.446	2.103	2.035
.68000	1.876	1.181	1.316	2.448	2.104	2.036
.69000	1.883	1.183	1.317	2.450	2.105	2.037
.70000	1.890	1.185	1.318	2.452	2.106	2.038
.71000	1.897	1.187	1.319	2.454	2.107	2.039
.72000	1.904	1.189	1.320	2.456	2.108	2.040
.73000	1.911	1.191	1.321	2.458	2.109	2.041
.74000	1.918	1.193	1.322	2.460	2.110	2.042
.75000	1.925	1.195	1.323	2.462	2.111	2.043
.76000	1.932	1.197	1.324	2.464	2.112	2.044
.77000	1.939	1.199	1.325	2.466	2.113	2.045
.78000	1.946	1.201	1.326	2.468	2.114	2.046
.79000	1.953	1.203	1.327	2.470	2.115	2.047
.80000	1.960	1.205	1.328	2.472	2.116	2.048
.81000	1.967	1.207	1.329	2.474	2.117	2.049
.82000	1.974	1.209	1.330	2.476	2.118	2.050
.83000	1.981	1.211	1.331	2.478	2.119	2.051
.84000	1.988	1.213	1.332	2.480	2.120	2.052
.85000	1.995	1.215	1.333	2.482	2.121	2.053
.86000	2.002	1.217	1.334	2.484	2.122	2.054
.87000	2.009	1.219	1.335	2.486	2.123	2.055
.88000	2.016	1.221	1.336	2.488	2.124	2.056
.89000	2.023	1.223	1.337	2.490	2.125	2.057
.90000	2.030	1.225	1.338	2.492	2.126	2.058
.91000	2.037	1.227	1.339	2.494	2.127	2.059
.92000	2.044	1.229	1.340	2.496	2.128	2.060
.93000	2.051	1.231	1.341	2.498	2.129	2.061
.94000	2.058	1.233	1.342	2.500	2.130	2.062
.95000	2.065	1.235	1.343	2.502	2.131	2.063
.96000	2.072	1.237	1.344	2.504	2.132	2.064
.97000	2.079	1.239	1.345	2.506	2.133	2.065
.98000	2.086	1.241	1.346	2.508	2.134	2.066
.99000	2.093	1.243	1.347	2.510	2.135	2.067
1.00000	2.100	1.245	1.348	2.512	2.136	2.068

$M=0.80$

$\frac{X}{C}$ (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.00000	4.511	2.810	1.268	1.641	2.008	2.065
.01000	1.252	2.454	2.910	2.339	2.093	1.934
.02000	1.279	2.811	2.806	2.499	2.447	1.408
.03000	1.307	2.015	2.806	2.332	2.108	1.948
.04000	1.329	1.955	2.757	2.332	2.061	1.560
.05000	1.316	1.717	2.567	2.220	2.116	1.941
.06000	1.331	1.634	2.856	2.222	2.634	1.547
.07000	1.314	1.634	1.443	2.179	2.061	1.208
.08000	1.351	1.138	1.993	2.873	2.793	1.701
.09000	1.357	1.580	1.830	2.125	2.039	1.893
.10000	1.364	1.188	1.062	2.357	2.087	1.797
.11000	1.393	1.589	1.710	2.074	2.016	1.882
.12000	1.358	1.226	1.121	1.033	1.976	1.894
.13000	1.417	1.546	1.618	2.029	1.986	1.876
.14000	1.340	1.423	1.558	1.940	1.944	1.870
.15000	1.404	1.446	1.558	1.980	1.958	1.870
.16000	1.312	1.225	1.158	1.109	1.979	1.017
.17000	1.377	1.448	1.517	1.940	1.932	1.870
.18000	1.426	1.198	1.141	1.107	1.092	1.042
.19000	1.353	1.416	1.130	1.911	1.916	1.871
.20000	1.245	1.190	1.136	1.116	1.108	1.066
.21000	1.311	1.433	1.466	1.917	1.920	1.864
.22000	1.205	1.159	1.116	1.101	1.099	1.064
.23000	1.233	1.399	1.416	1.881	1.903	1.858
.24000	1.205	1.159	1.116	1.101	1.099	1.064
.25000	1.233	1.399	1.416	1.881	1.903	1.858
.26000	1.205	1.159	1.116	1.101	1.099	1.064
.27000	1.233	1.399	1.416	1.881	1.903	1.858
.28000	1.205	1.159	1.116	1.101	1.099	1.064
.29000	1.233	1.399	1.416	1.881	1.903	1.858
.30000	1.205	1.159	1.116	1.101	1.099	1.064
.31000	1.233	1.399	1.416	1.881	1.903	1.858
.32000	1.205	1.159	1.116	1.101	1.099	1.064
.33000	1.233	1.399	1.416	1.881	1.903	1.858
.34000	1.205	1.159	1.116	1.101	1.099	1.064
.35000	1.233	1.399	1.416	1.881	1.903	1.858
.36000	1.205	1.159	1.116	1.101	1.099	1.064
.37000	1.233	1.399	1.416	1.881	1.903	1.858
.38000	1.205	1.159	1.116	1.101	1.099	1.064
.39000	1.233	1.399	1.416	1.881	1.903	1.858
.40000	1.205	1.159	1.116	1.101	1.099	1.064
.41000	1.233	1.399	1.416	1.881	1.903	1.858
.42000	1.205	1.159	1.116	1.101	1.099	1.064
.43000	1.233	1.399	1.416	1.881	1.903	1.858
.44000	1.205	1.159	1.116	1.101	1.099	1.064
.45000	1.233	1.399	1.416	1.881	1.903	1.858
.46000	1.205	1.159	1.116	1.101	1.099	1.064
.47000	1.233	1.399	1.416	1.881	1.903	1.858
.48000	1.205	1.159	1.116	1.101	1.099	1.064
.49000	1.233	1.399	1.416	1.881	1.903	1.858
.50000	1.205	1.159	1.116	1.101	1.099	1.064
.51000	1.233	1.399	1.416	1.881	1.903	1.858
.52000	1.205	1.159	1.116	1.101	1.099	1.064
.53000	1.233	1.399	1.416	1.881	1.903	1.858
.54000	1.205	1.159	1.116	1.101	1.099	1.064
.55000	1.233	1.399	1.416	1.88		

TABLE 7. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\delta_1=0^\circ$; $\delta_2=-20^\circ$)

M = 0.60

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.475	1.908	1.706	2.269	2.262	2.167
.0100	1.111	2.322	2.567	3.226	2.005	1.803
.0200	1.126	1.761	2.458	3.386	1.847	1.722
.0400	1.170	1.669	2.718	1.910	1.993	1.791
.0600	1.245	1.911	1.768	1.582	1.989	1.438
.0800	1.183	1.523	1.867	1.823	1.984	1.791
.1000	1.263	1.994	1.804	1.677	1.570	1.512
.1500	1.205	1.435	1.756	1.781	1.956	1.788
.2000	1.188	1.107	1.749	1.832	1.742	1.676
.2500	1.242	1.374	1.644	1.719	1.921	1.778
.3000	1.297	1.146	1.601	1.913	1.833	1.057
.3500	1.227	1.136	1.545	1.661	1.989	1.890
.4000	1.305	1.058	1.488	1.544	1.902	1.755
.4500	1.231	1.334	1.454	1.607	1.889	1.755
.5000	1.306	1.208	1.120	1.041	1.000	1.967
.5500	1.117	1.277	1.373	1.544	1.266	1.739
.6000	1.100	1.222	1.144	1.092	1.061	1.049
.6500	1.153	1.214	1.306	1.497	1.845	1.722
.7000	1.285	1.215	1.148	1.108	1.098	1.093
.7500	1.198	1.222	1.144	1.092	1.822	1.722
.8000	1.289	1.211	1.157	1.125	1.122	1.122
.8500	1.098	1.140	1.244	1.458	1.148	1.155
.9000	1.280	1.211	1.160	1.137	1.822	1.722
.9500	1.082	1.141	1.237	1.430	1.811	1.718
1.0000	1.082	1.138	1.224	1.420	1.771	1.703
1.0500	1.258	1.192	1.240	1.407	1.791	1.705
1.1000	1.236	1.199	1.144	1.133	1.791	1.705
1.1500	1.019	1.068	1.171	1.131	1.771	1.689
1.2000	1.211	1.172	1.142	1.131	1.179	1.205
1.2500	1.001	1.040	1.140	1.331	1.742	1.688
1.3000	1.258	1.993	1.102	1.300	1.244	1.678
1.3500	1.264	1.216	1.083	1.232	1.300	1.780
1.4000	1.932	1.261	1.083	1.269	1.300	1.780
1.4500	1.886	1.932	1.057	1.250	1.686	1.666
1.5000	1.312	1.285	1.077	1.226	1.482	1.547
1.5500	1.748	1.837	1.068	1.157	1.677	1.742
1.6000	1.380	1.359	1.365	1.457	1.619	1.655
1.6500	1.748	1.837	1.554	1.157	1.619	1.655
1.7000	1.523	1.514	1.554	1.188	1.619	1.655
1.7500	1.790	1.851	1.991	1.196	1.655	1.655
1.8000	1.289	1.283	1.283	1.448	1.935	1.242
1.8500	1.282	1.183	1.176	1.304	1.762	1.855
1.9000	1.018	1.024	1.065	1.199	1.637	1.799
1.9500	1.183	1.157	1.145	1.232	1.672	1.694

M = 0.80

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.520	1.780	1.245	1.226	1.978	2.131
.0100	1.184	2.307	2.772	2.108	2.037	1.886
.0200	1.322	1.847	1.624	1.507	2.444	1.414
.0400	1.235	1.893	2.587	2.194	2.041	1.920
.0600	1.313	1.990	1.777	1.643	2.550	1.480
.0800	1.268	1.651	2.291	2.181	2.050	1.896
.1000	1.333	1.088	1.877	2.740	2.036	1.860
.1500	1.290	1.560	1.994	1.998	2.004	1.880
.2000	1.366	1.188	1.012	1.695	1.800	1.722
.2500	1.308	1.515	1.803	2.076	1.978	1.869
.3000	1.378	1.123	1.607	1.989	2.015	1.946
.3500	1.404	1.285	1.164	1.075	1.997	1.929
.4000	1.456	1.146	1.571	1.974	1.918	1.839
.4500	1.333	1.446	1.571	1.133	1.068	1.010
.5000	1.409	1.335	1.423	1.180	1.132	1.080
.5500	1.303	1.339	1.485	1.922	1.886	1.830
.6000	1.402	1.335	1.235	1.180	1.132	1.080
.6500	1.261	1.339	1.423	1.922	1.886	1.830
.7000	1.371	1.309	1.237	1.155	1.168	1.129
.7500	1.218	1.283	1.378	1.155	1.842	1.826
.8000	1.369	1.304	1.241	1.121	1.121	1.121
.8500	1.165	1.306	1.245	1.216	1.206	1.177
.9000	1.363	1.306	1.245	1.216	1.206	1.177
.9500	1.180	1.244	1.339	1.216	1.229	1.817
1.0000	1.332	1.244	1.339	1.216	1.229	1.817
1.0500	1.146	1.209	1.312	1.173	1.151	1.812
1.1000	1.324	1.283	1.229	1.212	1.202	1.179
1.1500	1.146	1.209	1.312	1.173	1.151	1.812
1.2000	1.095	1.128	1.265	1.170	1.190	1.806
1.2500	1.088	1.147	1.259	1.689	1.171	1.800
1.3000	1.276	1.243	1.207	1.604	1.171	1.800
1.3500	1.221	1.291	1.183	1.242	1.171	1.800
1.4000	1.303	1.272	1.241	1.242	1.266	1.259
1.4500	1.021	1.088	1.209	1.226	1.174	1.789
1.5000	1.298	1.277	1.183	1.242	1.174	1.789
1.5500	1.298	1.052	1.183	1.155	1.172	1.789
1.6000	1.336	1.315	1.292	1.155	1.155	1.365
1.6500	1.933	1.315	1.292	1.155	1.155	1.365
1.7000	1.933	1.944	1.101	1.559	1.232	1.775
1.7500	1.944	1.355	1.988	1.525	1.429	1.438
1.8000	1.419	1.411	1.740	1.465	1.537	1.530
1.8500	1.483	1.942	1.548	1.465	1.537	1.530
1.9000	1.534	1.539	1.548	1.558	1.558	1.770
1.9500	1.783	1.938	1.087	1.472	1.671	1.751
1.0000	1.013	1.946	1.087	1.488	1.689	1.760
1.0500	1.013	1.946	1.087	1.488	1.689	1.760
1.1000	1.033	1.948	1.146	1.507	1.705	1.779
1.1500	1.043	1.321	1.319	1.502	1.846	1.949
1.2000	1.053	1.303	1.319	1.502	1.846	1.949
1.2500	1.058	1.303	1.437	1.437	1.726	1.827

M = 0.90

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.562	1.720	1.701	1.359	1.359	1.359
.0100	1.234	2.193	2.552	2.614	2.614	2.614
.0200	1.388	2.918	2.712	2.580	2.580	2.580
.0400	1.337	2.124	2.452	2.574	2.574	2.574
.0600	1.340	1.911	2.452	2.574	2.574	2.574
.0800	1.340	1.789	2.371	2.556	2.556	2.556
.1000	1.439	1.142	1.955	2.810	2.810	2.810
.1500	1.315	1.610	1.955	2.810	2.810	2.810
.2000	1.487	1.260	1.094	1.967	1.967	1.967
.2500	1.398	1.622	2.079	2.288	2.288	2.288
.3000	1.475	1.317	1.733	2.054	2.054	2.054
.3500	1.445	1.633	1.872	2.114	2.114	2.114
.4000	1.562	1.385	1.254	1.148	1.148	1.148
.4500	1.482	1.661	1.890	1.976	1.976	1.976
.5000	1.261	1.333	1.356	1.289	1.289	1.289
.5500	1.440	1.660	1.812	1.913	1.913	1.913
.6000	1.614	1.433	1.348	1.266	1.266	1.266
.6500	1.373	1.501	1.766	1.880	1.880	1.880
.7000	1.403	1.385	1.671	1.845	1.845	1.845
.7500	1.466	1.398	1.357	1.289	1.289	1.289
.8000	1.261	1.333	1.356	1.289	1.289	1.289
.8500	1.441	1.392	1.359	1.311	1.311	1.311
.9000	1.264	1.319	1.549	1.822	1.822	1.822
.9500	1.250	1.301	1.524	1.844	1.844	1.844
1.0000	1.414	1.367	1.332	1.293	1.293	1.293
1.0500	1.231	1.279	1.482	1.794	1.794	1.794
1.1000	1.379	1.340	1.333	1.288	1.288	1.288
1.1500	1.172	1.288	1.396	1.704	1.704	1.704
1.2000	1.441	1.392	1.359	1.311	1.311	1.311
1.2500	1.160	1.206	1.368	1.724	1.724	1.724
1.3000	1.366	1.313	1.290	1.274	1.274	1.274
1.3500	1.189	1.342	1.370	1.704	1.704	1.704
1.4000	1.401	1.349	1.325	1.317	1.317	1.317
1.4500	1.091	1.147	1.301	1.652	1.652	1.652
1.5000	1.049	1.166	1.272	1.634	1.634	1.634
1.5500	1.441	1.385	1.361	1.382	1.382	1.382
1.6000	1.099	1.088	1.253	1.608	1.608	1.608
1.6500	1.475	1.419	1.426	1.608	1.608	1.608
1.7000	1.967	1.063	1.223	1.573	1.573	1.573
1.7500	1.529	1.473	1.437	1.500	1.500	1.500
1.8000	1.628	1.586	1.537	1.657	1.657	1.657
1.8500	1.904	1.028	1.201	1.543	1.543	1.543
1.9000	1.949	1.033	1.195	1.543	1.543	1.543
1.9500	1.999	1.411	1.382	1.700	1.700	1.700
1.0000	1.451	1.398	1.237	1.639	1.639	1.639
1.0500	1.458	1.394	1.344	1.615	1.615	1.615

M = 0.93

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000			1.972	1.270		
.0100			2.476	2.468		
.0200			2.727	2.601		
.0400			2.401	2.567		
.0600			1.875	2.741		
.0800			2.529	2.475		
.1000			2.240	2.414		
.1500			1.103	2.990		
.2000			2.174	2.567		
.2500			1.187	2.567		
.3000			1.858	2.278		
.3500			1.275	1.178		
.4000			1.901	2.328		
.4500			1.329	1.845		
.5000			1.667	2.051		
.5500			1.774	1.301		
.6000			1.833	1.998		
.650						

TABLE 8. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\delta_x=10^\circ$, $\delta_y=0^\circ$)

M=0.60

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	.463	1.073	1.565	2.141	2.169	1.959
.0100	1.319	2.587	2.325	3.215	2.003	1.879
.0200	1.169	2.582	2.515	3.378	2.378	1.371
.0300	1.322	1.837	2.233	2.174	2.005	1.873
.0400	1.192	1.845	2.659	2.540	1.460	1.418
.0500	1.331	1.646	2.150	2.030	1.978	1.880
.0600	1.216	1.932	2.983	2.633	1.541	1.497
.0700	1.331	1.548	2.039	1.944	1.954	1.870
.0800	1.213	1.103	1.883	1.781	1.912	1.647
.0900	1.344	1.482	2.150	2.030	1.978	1.880
.1000	1.331	1.068	1.709	1.846	1.911	1.823
.1100	1.243	1.408	1.970	1.892	1.892	1.651
.1200	1.380	1.068	1.709	1.846	1.911	1.823
.1300	1.413	1.440	1.970	1.892	1.892	1.651
.1400	1.303	1.068	1.709	1.846	1.911	1.823
.1500	1.457	1.466	1.606	1.765	1.880	1.832
.1600	1.199	1.066	1.592	1.933	1.892	1.872
.1700	1.422	1.444	1.535	1.700	1.862	1.835
.1800	1.587	1.049	1.899	1.933	1.892	1.872
.1900	1.422	1.444	1.535	1.700	1.862	1.835
.2000	1.414	1.049	1.899	1.933	1.892	1.872
.2100	1.420	1.438	1.493	1.654	1.858	1.817
.2200	1.081	1.002	1.947	1.921	1.914	1.914
.2300	1.413	1.440	1.970	1.892	1.892	1.892
.2400	1.053	1.979	1.934	1.914	1.915	1.917
.2500	1.457	1.445	1.448	1.626	1.851	1.813
.2600	1.081	1.002	1.947	1.921	1.914	1.914
.2700	1.451	1.455	1.450	1.590	1.818	1.904
.2800	1.456	1.446	1.446	1.582	1.806	1.802
.2900	1.456	1.446	1.446	1.582	1.806	1.802
.3000	1.125	1.446	1.446	1.582	1.806	1.802
.3100	1.587	1.818	1.778	1.786	1.803	1.812
.3200	1.693	1.555	1.446	1.544	1.778	1.799
.3300	1.810	1.922	1.403	1.483	1.758	1.796
.3400	1.496	1.800	1.778	1.768	1.786	1.806
.3500	1.902	1.444	1.406	1.508	1.748	1.778
.3600	1.922	1.922	1.922	1.922	1.922	1.922
.3700	1.941	1.322	1.334	1.471	1.728	1.764
.3800	1.883	1.941	1.922	1.888	1.803	1.888
.3900	1.933	1.922	1.922	1.922	1.922	1.922
.4000	1.913	1.928	1.908	1.932	1.981	1.017
.4100	1.933	1.922	1.922	1.922	1.922	1.922
.4200	1.943	1.922	1.922	1.922	1.922	1.922
.4300	1.963	1.908	1.922	1.922	1.922	1.922
.4400	1.973	1.908	1.922	1.922	1.922	1.922
.4500	1.983	1.908	1.922	1.922	1.922	1.922
.4600	1.993	1.908	1.922	1.922	1.922	1.922
.4700	1.993	1.908	1.922	1.922	1.922	1.922
.4800	1.993	1.908	1.922	1.922	1.922	1.922
.4900	1.993	1.908	1.922	1.922	1.922	1.922
.5000	1.993	1.908	1.922	1.922	1.922	1.922

M=0.80

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	.458	1.088	1.725	2.147	1.954	2.055
.0100	1.267	2.493	2.818	3.228	2.049	1.934
.0200	1.267	2.803	2.602	2.728	2.440	1.405
.0300	1.325	2.074	2.750	2.421	2.056	1.467
.0400	1.272	2.941	2.752	2.206	2.072	1.946
.0500	1.330	1.730	2.540	2.206	2.072	1.946
.0600	1.304	1.023	2.844	2.726	2.680	1.542
.0700	1.356	1.648	2.739	2.167	2.026	1.905
.0800	1.330	1.122	2.792	2.760	2.769	1.693
.0900	1.386	1.607	2.757	2.113	2.002	1.892
.1000	1.338	1.153	2.033	1.940	2.085	1.778
.1100	1.433	1.607	1.819	2.062	1.975	1.886
.1200	1.309	1.179	1.980	1.901	1.935	1.866
.1300	1.466	1.604	1.774	2.019	1.950	1.978
.1400	1.262	1.164	1.059	1.930	1.907	1.869
.1500	1.480	1.574	1.663	1.973	1.921	1.869
.1600	1.205	1.073	1.073	1.935	1.899	1.869
.1700	1.489	1.556	1.664	1.935	1.899	1.869
.1800	1.330	1.080	1.038	1.935	1.899	1.869
.1900	1.482	1.538	1.658	1.907	1.907	1.864
.2000	1.094	1.003	1.003	1.907	1.907	1.864
.2100	1.507	1.559	1.616	1.926	1.897	1.865
.2200	1.441	1.066	1.066	1.877	1.897	1.865
.2300	1.533	1.533	1.533	1.877	1.877	1.865
.2400	1.549	1.571	1.578	1.867	1.865	1.854
.2500	1.579	1.950	1.950	1.945	1.855	1.897
.2600	1.589	1.950	1.950	1.945	1.855	1.897
.2700	1.589	1.950	1.950	1.945	1.855	1.897
.2800	1.702	1.872	1.872	1.860	1.852	1.860
.2900	1.702	1.872	1.872	1.860	1.852	1.860
.3000	1.702	1.872	1.872	1.860	1.852	1.860
.3100	1.702	1.872	1.872	1.860	1.852	1.860
.3200	1.702	1.872	1.872	1.860	1.852	1.860
.3300	1.702	1.872	1.872	1.860	1.852	1.860
.3400	1.702	1.872	1.872	1.860	1.852	1.860
.3500	1.702	1.872	1.872	1.860	1.852	1.860
.3600	1.702	1.872	1.872	1.860	1.852	1.860
.3700	1.702	1.872	1.872	1.860	1.852	1.860
.3800	1.702	1.872	1.872	1.860	1.852	1.860
.3900	1.702	1.872	1.872	1.860	1.852	1.860
.4000	1.702	1.872	1.872	1.860	1.852	1.860
.4100	1.702	1.872	1.872	1.860	1.852	1.860
.4200	1.702	1.872	1.872	1.860	1.852	1.860
.4300	1.702	1.872	1.872	1.860	1.852	1.860
.4400	1.702	1.872	1.872	1.860	1.852	1.860
.4500	1.702	1.872	1.872	1.860	1.852	1.860
.4600	1.702	1.872	1.872	1.860	1.852	1.860
.4700	1.702	1.872	1.872	1.860	1.852	1.860
.4800	1.702	1.872	1.872	1.860	1.852	1.860
.4900	1.702	1.872	1.872	1.860	1.852	1.860
.5000	1.702	1.872	1.872	1.860	1.852	1.860

M=0.90

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	.552	1.771	1.701	1.384	1.384	1.384
.0100	1.252	2.252	2.573	2.505	2.505	2.505
.0200	1.364	2.171	2.511	2.500	2.500	2.500
.0300	1.359	1.934	2.484	2.496	2.496	2.496
.0400	1.404	1.115	1.943	2.496	2.496	2.496
.0500	1.397	1.689	2.339	2.314	2.314	2.314
.0600	1.439	1.678	2.261	2.198	2.198	2.198
.0700	1.465	1.259	1.142	1.018	1.018	1.018
.0800	1.501	1.699	1.913	2.110	2.110	2.110
.0900	1.453	1.292	1.194	1.084	1.084	1.084
.1000	1.563	1.729	1.946	2.070	2.070	2.070
.1100	1.453	1.292	1.194	1.084	1.084	1.084
.1200	1.563	1.729	1.946	2.070	2.070	2.070
.1300	1.453	1.292	1.194	1.084	1.084	1.084
.1400	1.563	1.729	1.946	2.070	2.070	2.070
.1500	1.453	1.292	1.194	1.084	1.084	1.084
.1600	1.563	1.729	1.946	2.070	2.070	2.070
.1700	1.453	1.292	1.194	1.084	1.084	1.084
.1800	1.563	1.729	1.946	2.070	2.070	2.070
.1900	1.453	1.292	1.194	1.084	1.084	1.084
.2000	1.563	1.729	1.946	2.070	2.070	2.070
.2100	1.453	1.292	1.194	1.084	1.084	1.084
.2200	1.563	1.729	1.946	2.070	2.070	2.070
.2300	1.453	1.292	1.194	1.084	1.084	1.084
.2400	1.563	1.729	1.946	2.070	2.070	2.070
.2500	1.453	1.292	1.194	1.084	1.084	1.084
.2600	1.563	1.729	1.946	2.070	2.070	2.070
.2700	1.453	1.292	1.194	1.084	1.084	1.084
.2800	1.563	1.729	1.946	2.070	2.070	2.070
.2900	1.453	1.292	1.194	1.084	1.084	1.084
.3000	1.563	1.729	1.946	2.070	2.070	2.070
.3100	1.453	1.292	1.194	1.084	1.084	1.084
.3200	1.563	1.729	1.946	2.070	2.070	2.070
.3300	1.453	1.292	1.194	1.084	1.084	1.084
.3400	1.563	1.729	1.946	2.070	2.070	2.070
.3500	1.453	1.292	1.194	1.084	1.084	1.084
.3600	1.563	1.729	1.946	2.070	2.070	2.070
.3700	1.453	1.292	1.194	1.084	1.084	1.084
.3800	1.563	1.729	1.946	2.070	2.070	2.070
.3900	1.453	1.292	1.194	1.084	1.084	1.084
.4000	1.563	1.729	1.946	2.070	2.070	2.070
.4100	1.453	1.292	1.194	1.084	1.084	1.084
.4200	1.563	1.729	1.946	2.070	2.070	2.070
.4300	1.453	1.292	1.194	1.084	1.084	1.084
.4400	1.563	1.729	1.946	2.070	2.070	2.070
.4500	1.453	1.292	1.194	1.084	1.084	1.084
.4600	1.563	1.729	1.946	2.070	2.070	2.070
.4700	1.453	1.292	1.194	1.084	1.084	1.084
.4800	1.563	1.729	1.946	2.070	2.070	2.070
.4900	1.453	1.292	1.194	1.084	1.084	1.084
.5000	1.563	1.729	1.946	2.070	2.070	2.070

M=0.93

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	.598	.692	.756	.756		

TABLE 9. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\delta_x=10^\circ$; $\delta_y=10^\circ$)

M=0.60

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.4445	1.1651	1.0706	2.2855	2.1998	1.9333
.0100	1.1337	2.6897	2.3360	2.6300	2.0199	1.8677
.0200	1.0811	1.6885	1.4966	1.4144	1.3777	1.3653
.0400	1.0314	1.9924	2.3383	2.3385	2.0188	1.8663
.0600	1.1138	1.842	1.642	1.525	1.459	1.406
.0800	1.1930	1.705	2.1294	2.101	1.998	1.8659
.1000	1.1148	1.959	1.737	1.613	1.557	1.477
.1500	1.1300	1.593	2.1172	2.032	1.971	1.852
.2133	1.1768	1.522	1.821	1.931	1.915	1.834
.2533	1.1321	1.528	1.997	1.955	1.933	1.845
.3033	1.1180	1.055	1.924	1.830	1.768	1.711
.3533	1.1028	1.622	1.821	1.931	1.915	1.834
.4167	1.1068	1.082	1.965	1.983	1.843	1.793
.4567	1.1379	1.519	1.668	1.798	1.909	1.824
.5067	1.1130	1.070	1.970	1.908	1.879	1.844
.5567	1.1399	1.508	1.659	1.785	1.891	1.808
.6000	1.1077	1.042	1.957	1.786	1.899	1.873
.6500	1.1418	1.444	1.4510	1.788	1.872	1.799
.6800	1.1022	1.935	1.924	1.83	1.887	1.867
.6900	1.1459	1.446	1.498	1.755	1.857	1.790
.7000	1.0996	1.912	1.908	1.884	1.888	1.872
.7100	1.1426	1.438	1.493	1.753	1.856	1.789
.7200	1.1068	1.912	1.908	1.884	1.888	1.872
.7300	1.1464	1.464	1.492	1.719	1.832	1.772
.7400	1.1471	1.468	1.486	1.702	1.822	1.772
.7500	1.1001	1.935	1.924	1.83	1.887	1.867
.7600	1.1498	1.491	1.493	1.692	1.819	1.771
.7700	1.0911	1.744	1.756	1.749	1.767	1.760
.7800	1.1618	1.590	1.528	1.663	1.798	1.763
.8100	1.1001	1.935	1.924	1.83	1.887	1.867
.8200	1.1426	1.438	1.493	1.753	1.744	1.739
.8300	1.1068	1.912	1.908	1.884	1.888	1.872
.8533	1.1550	1.506	1.484	1.627	1.777	1.753
.8733	1.1427	1.386	1.409	1.585	1.745	1.704
.8833	1.1845	1.796	1.614	1.827	1.866	1.868
.9033	1.1381	1.338	1.367	1.557	1.744	1.733
.9133	1.1001	1.935	1.924	1.83	1.887	1.867
.9333	1.1348	1.291	1.339	1.534	1.735	1.729
.9433	1.1853	1.815	1.843	1.870	1.929	1.941
.9633	1.1391	1.228	1.230	1.445	1.715	1.713
.9733	1.1001	1.935	1.924	1.83	1.887	1.867
.9833	1.1322	1.259	1.306	1.481	1.688	1.709
.9933	1.1794	1.765	1.791	1.842	1.914	1.924
1.0033	1.1391	1.228	1.230	1.445	1.715	1.713
1.0133	1.1269	1.198	1.278	1.486	1.721	1.717
1.0233	1.1860	1.830	1.861	1.938	1.951	1.958
1.0333	1.1434	1.466	1.420	1.455	1.728	1.769
1.0433	1.0970	1.904	1.974	1.100	1.262	1.269
1.0533	1.1120	1.105	1.153	1.399	1.665	1.679
1.0583	1.1076	1.066	1.103	1.301	1.539	1.571

M=0.80

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.5507	1.841	1.785	1.561	1.5998	1.5933
.0100	1.2316	2.821	2.952	2.342	2.093	1.885
.0200	1.1234	1.788	1.594	1.493	1.440	1.392
.0400	1.1350	2.165	2.895	2.241	2.105	1.889
.0600	1.1235	1.932	1.740	1.623	1.533	1.445
.0800	1.1345	1.757	2.722	2.240	2.111	1.894
.1000	1.1287	1.009	1.835	1.709	1.618	1.516
.1500	1.1366	1.661	2.564	2.201	2.056	1.876
.2133	1.1317	1.619	1.963	1.856	1.856	1.660
.2533	1.1403	1.624	1.888	2.125	2.036	1.864
.3033	1.1315	1.146	1.702	1.753	1.753	1.745
.3533	1.1451	1.653	1.667	1.922	1.922	1.925
.4167	1.1488	1.626	1.656	2.027	1.983	1.842
.4567	1.1244	1.147	1.706	1.713	1.713	1.710
.5067	1.1507	1.619	1.654	1.853	1.853	1.858
.5567	1.1180	1.115	1.054	1.015	1.015	1.015
.6000	1.1519	1.596	1.618	1.946	1.930	1.822
.6500	1.1404	1.059	1.018	1.017	1.017	1.017
.6800	1.1068	1.028	1.989	1.917	1.917	1.892
.6900	1.1494	1.567	1.595	1.917	1.917	1.923
.7000	1.1001	1.974	1.940	1.923	1.923	1.921
.7100	1.1574	1.625	1.633	1.893	1.906	1.818
.7200	1.1584	1.629	1.631	1.876	1.898	1.813
.7300	1.1001	1.935	1.924	1.83	1.887	1.867
.7400	1.1500	1.658	1.639	1.870	1.896	1.820
.7500	1.1620	1.658	1.639	1.870	1.896	1.820
.7600	1.1001	1.935	1.924	1.83	1.887	1.867
.7700	1.1620	1.658	1.639	1.870	1.896	1.820
.7800	1.1001	1.935	1.924	1.83	1.887	1.867
.8100	1.1401	1.442	1.442	1.442	1.442	1.442
.8200	1.1001	1.935	1.924	1.83	1.887	1.867
.8300	1.1001	1.935	1.924	1.83	1.887	1.867
.8533	1.1570	1.506	1.472	1.771	1.654	1.801
.8733	1.1001	1.935	1.924	1.83	1.887	1.867
.8833	1.1001	1.935	1.924	1.83	1.887	1.867
.9033	1.1499	1.442	1.442	1.442	1.442	1.442
.9133	1.1001	1.935	1.924	1.83	1.887	1.867
.9333	1.1446	1.400	1.396	1.732	1.632	1.795
.9433	1.1915	1.913	1.914	1.955	1.982	1.940
.9633	1.1443	1.316	1.316	1.709	1.619	1.787
.9733	1.1001	1.935	1.924	1.83	1.887	1.867
.9833	1.1393	1.340	1.344	1.676	1.786	1.774
.9933	1.1865	1.870	1.867	1.926	1.952	1.917
1.0033	1.1401	1.442	1.442	1.442	1.442	1.442
1.0133	1.1324	1.296	1.328	1.706	1.618	1.783
1.0233	1.1919	1.930	1.937	1.927	1.960	1.924
1.0333	1.1262	1.269	1.262	1.596	1.506	1.780
1.0433	1.1001	1.935	1.924	1.83	1.887	1.867
1.0533	1.1217	1.252	1.289	1.642	1.783	1.769
1.0583	1.1173	1.209	1.244	1.511	1.619	1.608

M=0.90

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.548	1.724	1.502	1.343	1.343	1.343
.0100	1.228	2.270	2.382	2.382	2.382	2.382
.0200	1.1340	1.893	1.556	1.556	1.556	1.556
.0400	1.1363	2.189	2.506	2.506	2.506	2.506
.0600	1.1356	1.026	1.837	2.703	2.703	2.703
.0800	1.1387	1.000	1.643	2.382	2.382	2.382
.1000	1.1387	1.104	1.926	2.795	2.795	2.795
.1500	1.1400	1.690	2.326	2.364	2.364	2.364
.2133	1.1442	1.272	2.054	2.162	2.162	2.162
.2533	1.1455	1.272	2.054	2.162	2.162	2.162
.3033	1.1455	1.254	1.127	1.019	1.019	1.019
.3533	1.1500	1.679	1.910	2.162	2.162	2.162
.4167	1.1434	1.283	1.177	1.085	1.085	1.085
.4567	1.1568	1.719	1.938	2.084	2.084	2.084
.5067	1.1360	1.255	1.177	1.106	1.106	1.106
.5567	1.1528	1.744	1.909	2.001	2.001	2.001
.6000	1.1556	1.210	1.153	1.05	1.05	1.05
.6500	1.1467	1.136	1.100	1.067	1.067	1.067
.6800	1.1533	1.737	1.887	1.950	1.950	1.950
.6900	1.1123	1.104	1.076	1.049	1.049	1.049
.7000	1.1494	1.683	1.822	1.937	1.937	1.937
.7100	1.1055	1.039	1.024	1.002	1.002	1.002
.7200	1.1580	1.756	1.871	1.937	1.937	1.937
.7300	1.1580	1.752	1.869	1.928	1.928	1.928
.7400	1.1001	1.935	1.924	1.83	1.887	1.867
.7500	1.1597	1.756	1.878	1.926	1.926	1.926
.7600	1.1001	1.935	1.924	1.83	1.887	1.867
.7700	1.1597	1.756	1.878	1.926	1.926	1.926
.7800	1.1001	1.935	1.924	1.83	1.887	1.867
.8100	1.1721	1.836	1.960	1.936	1.936	1.936
.8200	1.1001	1.935	1.924	1.83	1.887	1.867
.8300	1.1455	2.208	2.245	1.953	1.953	1.953
.8533	1.1915	2.912	2.916	1.953	1.953	1.953
.8733	1.1988	1.760	1.927	1.892	1.892	1.892
.8833	1.1944	1.942	1.947	1.954	1.954	1.954
.9033	1.1770	1.659	1.788	1.870	1.870	1.870
.9133	1.1956	1.967	1.967	1.967	1.967	1.967
.9333	1.1331	1.548	1.700	1.850	1.850	1.850
.9433	1.1963	1.967	1.983	1.000	1.000	1.000
.9633	1.1532	1.481	1.670	1.833	1.833	1.833
.9733	1.1977	1.990	1.977	1.977	1.977	1.977
.9833	1.1460	1.450	1.655	1.816	1.816	1.816
.9933	1.1926	1.923	1.940	1.963	1.963	1.963
1.0033	1.1418	1.437	1.636	1.862	1.862	1.862
1.0133	1.1402	1.431	1.614	1.834	1.834	1.834
1.0233	1.1977	1.990	1.015	1.054	1.054	1.054
1.0333	1.1361	1.431	1.614	1.834	1.834	1.834
1.0433	1.1152	1.418	1.616	1.834	1.834	1.834
1.0533	1.1557	1.427	1.637	1.789	1.789	1.789
1.0583	1.1295	1.340	1.428	1.575	1.575	1.575

M=0.93

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.565	1.708	1.972	1.972	1.972	1.97

TABLE 10. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN. ($\delta_1 = 10^\circ$; $\delta_2 = 20^\circ$)

M = 0.60

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.4555	1.1655	1.7555	2.0443	2.2266	1.9222
0.0100	1.3666	2.6557	2.1379	2.1533	2.0338	1.8653
0.0200	1.0589	2.6588	1.4933	2.4111	2.3811	1.3633
0.0400	1.1329	1.9188	2.1397	2.1127	2.0355	1.8667
0.0600	1.11008	1.7812	2.1638	2.1229	2.4556	1.4066
0.0800	1.1304	1.7012	2.3142	2.0802	2.0266	1.8733
0.1000	1.1136	1.6894	2.1732	2.1615	2.5400	1.4722
0.1500	1.1308	1.5583	2.1218	2.0443	2.0000	1.8660
0.2000	1.1465	1.1000	2.1260	2.7655	2.5922	1.6521
0.2500	1.1655	1.0227	2.0333	2.0066	1.9644	1.8499
0.3000	1.1366	1.5122	1.9318	2.5334	1.7688	1.9055
0.3500	1.1465	1.5122	1.8833	1.8922	1.9521	1.8333
0.4167	1.1390	1.5111	1.6668	1.9733	1.9444	1.8211
0.4567	1.1122	1.4034	1.9956	1.9066	1.8700	1.8255
0.5067	1.1410	1.4977	1.5666	1.9223	1.8733	1.8400
0.5567	1.1047	1.0006	1.9934	1.9090	1.8900	1.8544
0.6000	1.4239	1.5000	1.5529	1.8667	1.9011	1.7911
0.6500	1.4923	1.9533	1.9022	1.9811	1.8733	1.8400
0.7000	1.4430	1.4888	1.5509	1.8332	1.8882	1.7866
0.7500	1.4964	1.4933	1.8880	1.8711	1.8870	1.8455
0.8000	1.4266	1.4877	1.5503	1.8332	1.8801	1.7811
0.8500	1.4187	1.4855	1.8442	1.8332	1.8377	1.8044
0.9000	1.4487	1.5331	1.5224	1.7966	1.8666	1.7800
0.9500	1.4920	1.5534	1.5111	1.7833	1.8555	1.7699
1.0000	1.4800	1.5534	1.5111	1.7833	1.8555	1.7699
1.0500	1.5220	1.5560	1.5288	1.7677	1.8477	1.7722
1.1000	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.1500	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.2000	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.2500	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.3000	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.3500	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.4000	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.4500	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.5000	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.5500	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.6000	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.6500	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.7000	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.7500	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.8000	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.8500	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.9000	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
1.9500	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222
2.0000	1.4700	1.7559	1.5288	1.7333	1.7400	1.7222

M = 0.80

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.5001	2.8466	1.3007	1.6887	2.0155	2.0633
0.0100	1.2120	2.5500	2.2911	2.2322	2.1490	1.9544
0.0200	1.2120	2.7833	2.5899	2.4900	2.1432	1.4044
0.0400	1.3355	2.1580	2.8823	2.2300	2.1033	1.9666
0.0600	1.2338	1.9721	2.6688	2.6155	2.1022	1.4358
0.0800	1.3533	1.7449	2.6618	2.2211	2.1022	1.9558
0.1000	1.2339	1.0002	2.8822	2.7044	2.6007	1.5525
0.1500	1.3373	1.6655	2.2928	2.2928	2.0550	1.9271
0.2000	1.3000	1.1022	2.7833	2.8444	2.0550	1.9271
0.2500	1.4033	1.6320	1.9959	2.1277	2.0229	1.9144
0.3000	1.2339	1.1333	1.7007	2.1881	2.0550	1.7054
0.3500	1.4445	1.6222	1.8833	2.0822	2.0000	1.9304
0.4167	1.2733	1.1488	1.7007	2.0778	1.9004	1.8311
0.4567	1.4883	1.6222	1.7729	2.0411	1.9778	1.8397
0.5067	1.4748	1.6222	1.7729	2.0411	1.9778	1.8397
0.5567	1.4748	1.6222	1.7729	2.0411	1.9778	1.8397
0.6000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
0.6500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
0.7000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
0.7500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
0.8000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
0.8500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
0.9000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
0.9500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.0000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.0500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.1000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.1500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.2000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.2500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.3000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.3500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.4000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.4500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.5000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.5500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.6000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.6500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.7000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.7500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.8000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.8500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.9000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
1.9500	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889
2.0000	1.4502	1.6100	1.6966	1.9955	1.9448	1.8889

M = 0.90

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.5445	2.7055	1.0228	1.3677	2.4444	2.4444
0.0100	1.2377	2.2339	2.5449	2.4444	2.4444	2.4444
0.0200	1.2377	2.2339	2.5449	2.4444	2.4444	2.4444
0.0400	1.3351	2.1559	2.5118	2.5088	2.5088	2.5088
0.0600	1.3341	1.9889	2.4231	2.6888	2.6888	2.6888
0.0800	1.4118	1.9889	2.4231	2.6888	2.6888	2.6888
0.1000	1.3396	1.0766	2.9200	2.7777	2.7777	2.7777
0.1500	1.3376	1.6449	2.2255	2.9170	2.9170	2.9170
0.2000	1.4336	1.1844	2.0445	2.9170	2.9170	2.9170
0.2500	1.4118	1.6334	2.2338	2.1822	2.1822	2.1822
0.3000	1.4453	1.2119	1.5114	2.1822	2.1822	2.1822
0.3500	1.4466	1.6440	1.9166	2.1177	2.1177	2.1177
0.4167	1.4223	1.2339	1.1556	1.0555	1.0555	1.0555
0.4567	1.5330	1.6778	1.9333	2.0666	2.0666	2.0666
0.5067	1.3347	1.2122	1.1554	1.0722	1.0722	1.0722
0.5567	1.3347	1.2122	1.1554	1.0722	1.0722	1.0722
0.6000	1.2345	1.1559	1.1266	1.0666	1.0666	1.0666
0.6500	1.5116	1.6977	1.8988	1.9444	1.9444	1.9444
0.7000	1.5105	1.6555	1.8330	1.9233	1.9233	1.9233
0.7500	1.1098	1.0533	1.0442	1.0133	1.0133	1.0133
0.8000	1.4700	1.6177	1.8001	1.9100	1.9100	1.9100
0.8500	1.0222	0.9877	0.9877	0.9600	0.9600	0.9600
0.9000	1.3553	1.6933	1.8449	1.9022	1.9022	1.9022
0.9500	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.0000	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.0500	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.1000	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.1500	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.2000	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.2500	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.3000	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.3500	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.4000	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.4500	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.5000	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.5500	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.6000	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.6500	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.7000	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.7500	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.8000	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.8500	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.9000	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
1.9500	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933
2.0000	1.3545	1.6933	1.8442	1.8933	1.8933	1.8933

M = 0.93

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.5771	2.6997	2.9667	2.9667	2.9667	2.9667
0.0100	1.1822	2.3344	2.4324	2.7224	2.7224	2.7224
0.0200	1.1822	2.3344	2.4324	2.7224	2.722	

TABLE 11. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

$(\delta_f=10^\circ; \delta_r=-10^\circ)$

M=0.60

M=0.80

X/C (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	.471	.925	1.988	2.452	2.419	2.182
0.0100	1.253	2.099	2.796	2.519	2.004	1.819
0.0200	1.255	1.684	2.524	2.427	1.381	1.366
0.0400	1.265	1.368	2.368	2.542	2.005	1.612
0.0600	1.260	1.933	2.667	2.539	2.466	1.420
0.0800	1.478	2.086	2.086	2.246	2.001	1.523
0.1000	1.189	1.044	2.760	2.640	1.555	1.494
1.15000	1.285	1.140	1.912	2.052	1.373	1.518
1.21333	1.111	1.111	1.899	1.785	1.714	1.545
1.27333	1.283	1.392	1.566	1.961	1.534	1.801
1.33333	1.213	1.141	1.953	1.864	1.794	1.734
1.35333	1.319	1.398	1.637	1.941	1.915	1.800
1.41677	1.145	1.145	1.007	1.930	1.876	1.523
1.45677	1.333	1.392	1.566	1.915	1.827	1.789
1.50677	1.180	1.130	1.015	1.962	1.926	1.885
1.55677	1.345	1.398	1.511	1.862	1.898	1.774
1.58677	1.101	1.101	1.451	1.811	1.860	1.764
1.63000	1.095	1.066	1.988	1.955	1.951	1.931
1.67000	1.393	1.366	1.444	1.979	1.845	1.758
1.68000	1.065	1.065	1.400	1.955	1.850	1.937
1.69000	1.329	1.370	1.411	1.730	1.828	1.746
1.71000	1.023	1.999	1.950	1.722	1.944	1.931
1.72000	1.403	1.403	1.722	1.722	1.825	1.746
1.74000	1.348	1.372	1.999	1.703	1.813	1.739
1.74000	1.967	1.944	1.900	1.887	1.899	1.894
1.75000	1.395	1.392	1.812	1.622	1.810	1.840
1.77000	1.453	1.453	1.398	1.642	1.796	1.731
1.81000	1.514	1.514	1.339	1.661	1.810	1.727
1.82000	1.993	1.993	1.332	1.612	1.829	1.827
1.83000	1.359	1.355	1.332	1.582	1.761	1.714
1.85333	1.942	1.944	1.291	1.517	1.947	1.948
1.87733	1.282	1.282	1.282	1.525	1.740	1.695
1.88333	1.033	1.033	1.033	1.525	1.740	1.695
1.90333	1.142	1.158	1.225	1.502	1.718	1.692
1.91333	1.003	1.003	1.008	1.020	1.094	1.102
1.93333	1.088	1.088	1.088	1.088	1.192	1.199
1.94333	1.035	1.059	1.159	1.049	1.168	1.172
1.96333	1.148	1.148	1.143	1.148	1.304	1.330
1.97333	1.255	1.255	1.255	1.255	1.442	1.563
1.98333	1.003	1.003	1.003	1.003	1.389	1.680
1.99333	1.154	1.154	1.158	1.158	1.643	1.650
1.00333	1.003	1.003	1.003	1.003	1.389	1.680
1.01333	1.154	1.154	1.158	1.158	1.643	1.650
1.02333	1.003	1.003	1.003	1.003	1.389	1.680
1.03333	1.154	1.154	1.158	1.158	1.643	1.650
1.04333	1.003	1.003	1.003	1.003	1.389	1.680
1.05333	1.154	1.154	1.158	1.158	1.643	1.650
1.06333	1.003	1.003	1.003	1.003	1.389	1.680
1.07333	1.154	1.154	1.158	1.158	1.643	1.650
1.08333	1.003	1.003	1.003	1.003	1.389	1.680
1.09333	1.154	1.154	1.158	1.158	1.643	1.650
1.10333	1.003	1.003	1.003	1.003	1.389	1.680
1.11333	1.154	1.154	1.158	1.158	1.643	1.650
1.12333	1.003	1.003	1.003	1.003	1.389	1.680
1.13333	1.154	1.154	1.158	1.158	1.643	1.650
1.14333	1.003	1.003	1.003	1.003	1.389	1.680
1.15333	1.154	1.154	1.158	1.158	1.643	1.650
1.16333	1.003	1.003	1.003	1.003	1.389	1.680
1.17333	1.154	1.154	1.158	1.158	1.643	1.650
1.18333	1.003	1.003	1.003	1.003	1.389	1.680
1.19333	1.154	1.154	1.158	1.158	1.643	1.650
1.20333	1.003	1.003	1.003	1.003	1.389	1.680
1.21333	1.154	1.154	1.158	1.158	1.643	1.650
1.22333	1.003	1.003	1.003	1.003	1.389	1.680
1.23333	1.154	1.154	1.158	1.158	1.643	1.650
1.24333	1.003	1.003	1.003	1.003	1.389	1.680
1.25333	1.154	1.154	1.158	1.158	1.643	1.650
1.26333	1.003	1.003	1.003	1.003	1.389	1.680
1.27333	1.154	1.154	1.158	1.158	1.643	1.650
1.28333	1.003	1.003	1.003	1.003	1.389	1.680
1.29333	1.154	1.154	1.158	1.158	1.643	1.650
1.30333	1.003	1.003	1.003	1.003	1.389	1.680
1.31333	1.154	1.154	1.158	1.158	1.643	1.650
1.32333	1.003	1.003	1.003	1.003	1.389	1.680
1.33333	1.154	1.154	1.158	1.158	1.643	1.650
1.34333	1.003	1.003	1.003	1.003	1.389	1.680
1.35333	1.154	1.154	1.158	1.158	1.643	1.650
1.36333	1.003	1.003	1.003	1.003	1.389	1.680
1.37333	1.154	1.154	1.158	1.158	1.643	1.650
1.38333	1.003	1.003	1.003	1.003	1.389	1.680
1.39333	1.154	1.154	1.158	1.158	1.643	1.650
1.40333	1.003	1.003	1.003	1.003	1.389	1.680
1.41333	1.154	1.154	1.158	1.158	1.643	1.650
1.42333	1.003	1.003	1.003	1.003	1.389	1.680
1.43333	1.154	1.154	1.158	1.158	1.643	1.650
1.44333	1.003	1.003	1.003	1.003	1.389	1.680
1.45333	1.154	1.154	1.158	1.158	1.643	1.650
1.46333	1.003	1.003	1.003	1.003	1.389	1.680
1.47333	1.154	1.154	1.158	1.158	1.643	1.650
1.48333	1.003	1.003	1.003	1.003	1.389	1.680
1.49333	1.154	1.154	1.158	1.158	1.643	1.650
1.50333	1.003	1.003	1.003	1.003	1.389	1.680
1.51333	1.154	1.154	1.158	1.158	1.643	1.650
1.52333	1.003	1.003	1.003	1.003	1.389	1.680
1.53333	1.154	1.154	1.158	1.158	1.643	1.650
1.54333	1.003	1.003	1.003	1.003	1.389	1.680
1.55333	1.154	1.154	1.158	1.158	1.643	1.650
1.56333	1.003	1.003	1.003	1.003	1.389	1.680
1.57333	1.154	1.154	1.158	1.158	1.643	1.650
1.58333	1.003	1.003	1.003	1.003	1.389	1.680
1.59333	1.154	1.154	1.158	1.158	1.643	1.650
1.60333	1.003	1.003	1.003	1.003	1.389	1.680
1.61333	1.154	1.154	1.158	1.158	1.643	1.650
1.62333	1.003	1.003	1.003	1.003	1.389	1.680
1.63333	1.154	1.154	1.158	1.158	1.643	1.650
1.64333	1.003	1.003	1.003	1.003	1.389	1.680
1.65333	1.154	1.154	1.158	1.158	1.643	1.650
1.66333	1.003	1.003	1.003	1.003	1.389	1.680
1.67333	1.154	1.154	1.158	1.158	1.643	1.650
1.68333	1.003	1.003	1.003	1.003	1.389	1.680
1.69333	1.154	1.154	1.158	1.158	1.643	1.650
1.70333	1.003	1.003	1.003	1.003	1.389	1.680
1.71333	1.154	1.154	1.158	1.158	1.643	1.650
1.72333	1.003	1.003	1.003	1.003	1.389	1.680
1.73333	1.154	1.154	1.158	1.158	1.643	1.650
1.74333	1.003	1.003	1.003	1.003	1.389	1.680
1.75333	1.154	1.154	1.158	1.158	1.643	1.650
1.76333	1.003	1.003	1.003	1.003	1.389	1.680
1.77333	1.154	1.154	1.158	1.158	1.643	1.650
1.78333	1.003	1.003	1.003	1.003	1.389	1.680
1.79333	1.154	1.154	1.158	1.158	1.643	1.650
1.80333	1.003	1.003	1.003	1.003	1.389	1.680
1.81333	1.154	1.154	1.158	1.158	1.643	1.650
1.82333	1.003	1.003	1.003	1.003	1.389	1.680
1.83333	1.154	1.154	1.158	1.158	1.643	1.650
1.84333	1.003	1.003	1.003	1.003	1.389	1.680
1.85333	1.154	1.154	1.158	1.158	1.643	1.650
1.86333	1.003	1.003	1.003	1.003	1.389	1.680
1.87333	1.154	1.154	1.158	1.158	1.643	1.650
1.88333	1.003	1.003	1.003	1.003	1.389	1.680
1.89333	1.154	1.154	1.158	1.158	1.643	1.650
1.90333	1.003	1.003	1.003	1.003	1.389	1.680
1.91333	1.154	1.154	1.158	1.158	1.643	1.650
1.92333	1.003	1.003	1.003	1.003	1.389	1.680
1.93333	1.154	1.154	1.158	1.158	1.643	1.650
1.94333	1.003	1.003	1.003	1.003	1.389	1.680
1.95333	1.154	1.154	1.158	1.158	1.643	1.650
1.96333	1.003	1.003	1.003	1.003	1.389	1.680
1.97333	1.154	1.154	1.158	1.158	1.643	1.650
1.98333	1.003	1.003	1.003	1.003	1.389	1.680
1.99333	1.154	1.154	1.158	1.158	1.643	1.650
2.00333	1.003	1.003	1.003	1.003	1.389	1.680
2.01333	1.154	1.154	1.158	1.158	1.643	1.650
2.02333	1.003	1.003	1.003	1.003	1.389	1.680
2.03333	1.154	1.154	1.158	1.158	1.643	1.650
2.04333	1.003	1.003	1.003	1.003	1.389	1.680
2.05333	1.154	1.154	1.158	1.158	1.643	1.650
2.06333	1.003	1.003	1.003	1.003	1.389	1.680
2.07333	1.154	1.154	1.158	1.158	1.643	1.650
2.08333	1.003	1.003	1.003	1.003	1.389	1.680
2.09333	1.154	1.154	1.158	1.158	1.643	1.650
2.10333	1.003	1.003	1.003	1.003	1.389	1.680
2.11333	1.154	1.154	1.158	1.158	1.643	1.650
2.12333	1.003	1.003	1.003	1.003	1.389	1.680
2.13333	1.154	1.154	1.158	1.158	1.643	1.650</

TABLE 12. — PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\delta_1 = 10^\circ$; $\delta_2 = -20^\circ$)

M = 0.60

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	4.68	1.013	2.680	2.316	2.326	2.189
.0100	1.176	2.472	2.333	2.274	2.102	1.826
.0200	1.123	1.725	2.433	2.274	2.102	1.826
.0400	1.123	1.744	2.163	2.208	2.028	1.826
.0600	1.151	1.874	1.683	1.559	1.481	1.433
.0800	1.207	1.577	1.980	1.922	1.844	1.833
.1000	1.237	1.987	1.778	1.765	1.687	1.636
.1500	1.488	1.488	1.850	1.894	1.981	1.833
.2000	1.061	1.990	1.970	1.815	1.728	1.664
.2500	1.244	1.433	1.973	1.815	1.937	1.826
.3000	1.228	1.083	1.966	1.722	1.813	1.757
.3500	1.276	1.427	1.622	1.767	1.919	1.814
.4000	1.301	1.416	1.024	1.074	1.898	1.847
.4500	1.198	1.115	1.033	1.974	1.945	1.911
.5000	1.139	1.388	1.477	1.655	1.877	1.766
.5500	1.174	1.105	1.011	1.990	1.980	1.956
.6000	1.291	1.362	1.428	1.607	1.858	1.743
.6500	1.120	1.068	1.888	1.886	1.920	1.858
.7000	1.104	1.055	1.007	1.978	1.986	1.978
.7500	1.258	1.315	1.737	1.558	1.831	1.738
.8000	1.053	1.019	1.898	1.976	1.969	1.969
.8500	1.287	1.333	1.375	1.530	1.813	1.726
.9000	1.297	1.333	1.364	1.552	1.803	1.762
.9500	1.008	1.975	1.849	1.949	1.986	1.986
1.0000	1.232	1.349	1.349	1.564	1.799	1.725
1.0500	1.933	1.900	1.879	1.869	1.889	1.886
1.1000	1.330	1.374	1.333	1.447	1.766	1.714
1.1500	1.411	1.345	1.333	1.447	1.766	1.714
1.2000	1.901	1.880	1.880	1.880	1.880	1.880
1.2500	1.235	1.277	1.277	1.443	1.729	1.704
1.3000	1.933	1.933	1.933	1.933	1.933	1.933
1.3500	1.086	1.137	1.137	1.392	1.704	1.688
1.4000	1.051	1.093	1.093	1.034	1.094	1.111
1.4500	1.011	1.011	1.011	1.011	1.011	1.011
1.5000	1.011	1.011	1.011	1.011	1.011	1.011
1.5500	1.011	1.011	1.011	1.011	1.011	1.011
1.6000	1.011	1.011	1.011	1.011	1.011	1.011
1.6500	1.011	1.011	1.011	1.011	1.011	1.011
1.7000	1.011	1.011	1.011	1.011	1.011	1.011
1.7500	1.011	1.011	1.011	1.011	1.011	1.011
1.8000	1.011	1.011	1.011	1.011	1.011	1.011
1.8500	1.011	1.011	1.011	1.011	1.011	1.011
1.9000	1.011	1.011	1.011	1.011	1.011	1.011
1.9500	1.011	1.011	1.011	1.011	1.011	1.011
2.0000	1.011	1.011	1.011	1.011	1.011	1.011

M = 0.80

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.525	.615	1.647	1.689	2.018	2.070
.0100	1.207	2.389	3.758	2.210	2.049	1.911
.0200	1.299	1.824	3.773	2.502	2.49	4.09
.0400	1.278	1.962	3.432	2.410	2.065	1.921
.0600	1.296	1.964	3.571	2.630	2.540	1.474
.0800	1.296	1.964	3.571	2.630	2.540	1.474
.1000	1.308	1.041	1.084	2.721	2.801	1.922
.1500	1.316	1.611	1.726	2.168	2.021	1.897
.2000	1.335	1.146	1.247	2.871	2.777	1.700
.2500	1.338	1.569	2.323	2.109	2.001	1.884
.3000	1.342	1.184	1.336	2.952	2.865	1.793
.3500	1.383	1.170	2.188	2.058	1.975	1.872
.4000	1.331	1.214	1.407	1.023	1.949	1.880
.4500	1.422	1.156	3.009	1.948	1.859	1.859
.5000	1.295	1.205	1.421	1.057	1.994	1.940
.5500	1.252	1.353	2.434	1.073	1.917	1.845
.6000	1.242	1.140	1.946	1.905	1.893	1.836
.6500	1.288	1.440	1.880	1.056	1.874	1.831
.7000	1.260	1.119	1.653	1.049	1.026	1.889
.7500	1.380	1.449	1.877	1.862	1.869	1.830
.8000	1.108	1.076	1.837	1.021	1.002	1.973
.8500	1.434	1.483	1.883	1.845	1.864	1.828
.9000	1.438	1.477	1.893	1.830	1.854	1.828
.9500	1.438	1.481	1.856	1.822	1.852	1.820
1.0000	1.974	1.945	1.168	1.911	1.899	1.874
1.0500	1.487	1.508	1.830	1.774	1.833	1.815
1.1000	1.449	1.447	1.147	1.876	1.891	1.872
1.1500	1.457	1.457	1.457	1.747	1.837	1.825
1.2000	1.457	1.457	1.457	1.747	1.837	1.825
1.2500	1.457	1.457	1.457	1.747	1.837	1.825
1.3000	1.457	1.457	1.457	1.747	1.837	1.825
1.3500	1.457	1.457	1.457	1.747	1.837	1.825
1.4000	1.457	1.457	1.457	1.747	1.837	1.825
1.4500	1.457	1.457	1.457	1.747	1.837	1.825
1.5000	1.457	1.457	1.457	1.747	1.837	1.825
1.5500	1.457	1.457	1.457	1.747	1.837	1.825
1.6000	1.457	1.457	1.457	1.747	1.837	1.825
1.6500	1.457	1.457	1.457	1.747	1.837	1.825
1.7000	1.457	1.457	1.457	1.747	1.837	1.825
1.7500	1.457	1.457	1.457	1.747	1.837	1.825
1.8000	1.457	1.457	1.457	1.747	1.837	1.825
1.8500	1.457	1.457	1.457	1.747	1.837	1.825
1.9000	1.457	1.457	1.457	1.747	1.837	1.825
1.9500	1.457	1.457	1.457	1.747	1.837	1.825
2.0000	1.457	1.457	1.457	1.747	1.837	1.825

M = 0.90

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.571	.726	1.055	1.371	1.589	1.589
.0100	1.216	2.320	2.552	2.571	2.571	2.571
.0200	1.316	2.136	2.488	2.541	2.541	2.541
.0400	1.379	1.044	1.840	2.707	2.707	2.707
.0600	1.337	1.742	2.329	2.461	2.461	2.461
.0800	1.371	1.666	2.297	2.341	2.341	2.341
.1000	1.445	1.244	1.065	2.533	2.533	2.533
.1500	1.407	1.646	2.308	1.683	1.683	1.683
.2000	1.371	1.666	2.297	2.341	2.341	2.341
.2500	1.445	1.244	1.065	2.533	2.533	2.533
.3000	1.407	1.646	2.308	1.683	1.683	1.683
.3500	1.446	1.647	1.887	2.077	2.077	2.077
.4000	1.486	1.325	1.193	1.109	1.109	1.109
.4500	1.524	1.698	1.905	2.031	2.031	2.031
.5000	1.443	1.314	1.206	1.139	1.139	1.139
.5500	1.439	1.703	1.842	1.972	1.972	1.972
.6000	1.539	1.700	1.017	1.948	1.948	1.948
.6500	1.247	1.212	1.152	1.118	1.118	1.118
.7000	1.147	1.129	1.093	1.073	1.073	1.073
.7500	1.210	1.184	1.134	1.108	1.108	1.108
.8000	1.488	1.628	1.765	1.902	1.902	1.902
.8500	1.085	1.066	1.016	1.020	1.020	1.020
.9000	1.085	1.066	1.016	1.020	1.020	1.020
.9500	1.085	1.066	1.016	1.020	1.020	1.020
1.0000	1.085	1.066	1.016	1.020	1.020	1.020
1.0500	1.085	1.066	1.016	1.020	1.020	1.020
1.1000	1.085	1.066	1.016	1.020	1.020	1.020
1.1500	1.085	1.066	1.016	1.020	1.020	1.020
1.2000	1.085	1.066	1.016	1.020	1.020	1.020
1.2500	1.085	1.066	1.016	1.020	1.020	1.020
1.3000	1.085	1.066	1.016	1.020	1.020	1.020
1.3500	1.085	1.066	1.016	1.020	1.020	1.020
1.4000	1.085	1.066	1.016	1.020	1.020	1.020
1.4500	1.085	1.066	1.016	1.020	1.020	1.020
1.5000	1.085	1.066	1.016	1.020	1.020	1.020
1.5500	1.085	1.066	1.016	1.020	1.020	1.020
1.6000	1.085	1.066	1.016	1.020	1.020	1.020
1.6500	1.085	1.066	1.016	1.020	1.020	1.020
1.7000	1.085	1.066	1.016	1.020	1.020	1.020
1.7500	1.085	1.066	1.016	1.020	1.020	1.020
1.8000	1.085	1.066	1.016	1.020	1.020	1.020
1.8500	1.085	1.066	1.016	1.020	1.020	1.020
1.9000	1.085	1.066	1.016	1.020	1.020	1.020
1.9500	1.085	1.066	1.016	1.020	1.020	1.020
2.0000	1.085	1.066	1.016	1.020	1.020	1.020

M = 0.93

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.587	.715	1.084	1.384	1.584	1.584
.0100	1.231	2.150	2.580	2.580	2.580	2.580
.0200	1.335	2.053	2.380	2.380	2.380	2.380
.0400	1.407	1.073	1.884	2.286	2.286	2.286
.0600	1.359	1.817	2.316	2.144	2.144	2.144
.0800	1.440	1.159	1.980	2.193	2.193	2.193
.1000	1.390	1.664	2.314	2.114	2.114	2.114
.1500	1.500	1.278	1.144	2.286	2.286	2.286
.2000	1.432	1.660	2.189	2.189	2.189	2.189
.2500	1.519	1.324	1.189	2.189	2.189	2.189
.3000	1.458	1.673	1.857	2.189	2.189	2.189
.3500	1.555	1.379	1.266	2.189	2.189	2.189
.4000	1.560	1.706	1.896	2.189	2.189	2.189
.4500	1.583	1.369	1.274	2.189	2.189	2.189
.5000	1.603	1.725	1.891	2.189	2.189	2.189
.5500	1.413	1.323	1.262	2.189	2.189	2.189

TABLE 13. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN. ($\delta_1=20^\circ$; $\delta_2=0$)

M=0.60

Table with columns X/C (a) and S (alpha=0, 4, 8, 12, 16, 20 degrees) for M=0.60. Rows range from 0.0000 to 1.0583.

M=0.80

Table with columns X/C (a) and S (alpha=0, 4, 8, 12, 16, 20 degrees) for M=0.80. Rows range from 0.0000 to 1.0583.

M=0.90

Table with columns X/C (a) and S (alpha=0, 4, 8, 12, 16, 20 degrees) for M=0.90. Rows range from 0.0000 to 1.0583.

M=0.93

Table with columns X/C (a) and S (alpha=0, 4, 8, 12, 16, 20 degrees) for M=0.93. Rows range from 0.0000 to 1.0583.

a Lower surface orifice is denoted by -.

TABLE 14.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\beta_1=20^\circ$, $\beta_2=10^\circ$)

M=0.60							M=0.80						
X/C (a)	S						X/C (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$		$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.470	1.253	1.807	2.363	2.977	1.958	.0000	1.494	1.860	1.330	1.703	2.031	2.057
.0100	1.459	1.238	1.788	2.330	2.915	1.930	.0100	1.475	1.824	1.317	1.683	2.009	1.964
.0200	1.035	1.634	1.488	2.741	1.371	1.361	.0200	1.176	1.762	1.576	1.480	1.432	1.404
.0400	1.335	2.038	2.345	2.432	2.004	1.907	.0400	1.386	2.335	2.910	2.256	2.115	1.971
.0600	1.071	1.797	1.622	2.513	1.442	1.392	.0600	1.211	1.904	1.721	1.603	1.520	1.456
.0800	1.334	2.046	2.213	2.161	2.008	1.905	.0800	1.379	1.773	2.722	2.256	2.107	1.980
.1000	1.106	1.869	1.713	2.529	1.523	1.466	.1000	1.238	1.966	1.807	1.689	1.599	1.530
.1500	1.333	1.617	2.111	2.053	1.983	1.895	.1500	1.389	1.674	2.608	2.216	2.049	1.955
.2033	1.137	1.966	1.831	2.578	1.670	1.775	.2033	1.478	1.646	1.803	1.677	1.958	1.934
.2533	1.374	1.558	1.977	2.002	1.955	1.889	.2533	1.429	1.639	1.944	2.131	2.024	1.944
.3033	1.420	1.554	1.847	1.929	1.939	1.874	.3033	1.429	1.639	1.944	2.131	2.024	1.944
.3533	1.450	1.554	1.847	1.929	1.939	1.874	.3533	1.429	1.639	1.944	2.131	2.024	1.944
.4167	1.496	1.551	1.796	1.904	1.921	1.856	.4167	1.429	1.639	1.944	2.131	2.024	1.944
.4567	1.508	1.551	1.796	1.904	1.921	1.856	.4567	1.429	1.639	1.944	2.131	2.024	1.944
.5067	1.508	1.551	1.796	1.904	1.921	1.856	.5067	1.429	1.639	1.944	2.131	2.024	1.944
.5567	1.498	1.555	1.688	1.938	1.900	1.845	.5567	1.429	1.639	1.944	2.131	2.024	1.944
.5867	1.498	1.555	1.688	1.938	1.900	1.845	.5867	1.429	1.639	1.944	2.131	2.024	1.944
.6300	1.488	1.548	1.680	1.931	1.873	1.825	.6300	1.429	1.639	1.944	2.131	2.024	1.944
.6500	1.487	1.547	1.679	1.930	1.872	1.824	.6500	1.429	1.639	1.944	2.131	2.024	1.944
.6700	1.487	1.547	1.679	1.930	1.872	1.824	.6700	1.429	1.639	1.944	2.131	2.024	1.944
.6800	1.487	1.547	1.679	1.930	1.872	1.824	.6800	1.429	1.639	1.944	2.131	2.024	1.944
.6900	1.487	1.547	1.679	1.930	1.872	1.824	.6900	1.429	1.639	1.944	2.131	2.024	1.944
.7100	1.487	1.547	1.679	1.930	1.872	1.824	.7100	1.429	1.639	1.944	2.131	2.024	1.944
.7300	1.487	1.547	1.679	1.930	1.872	1.824	.7300	1.429	1.639	1.944	2.131	2.024	1.944
.7400	1.487	1.547	1.679	1.930	1.872	1.824	.7400	1.429	1.639	1.944	2.131	2.024	1.944
.7500	1.487	1.547	1.679	1.930	1.872	1.824	.7500	1.429	1.639	1.944	2.131	2.024	1.944
.7600	1.487	1.547	1.679	1.930	1.872	1.824	.7600	1.429	1.639	1.944	2.131	2.024	1.944
.7700	1.487	1.547	1.679	1.930	1.872	1.824	.7700	1.429	1.639	1.944	2.131	2.024	1.944
.7800	1.487	1.547	1.679	1.930	1.872	1.824	.7800	1.429	1.639	1.944	2.131	2.024	1.944
.8100	1.487	1.547	1.679	1.930	1.872	1.824	.8100	1.429	1.639	1.944	2.131	2.024	1.944
.8200	1.487	1.547	1.679	1.930	1.872	1.824	.8200	1.429	1.639	1.944	2.131	2.024	1.944
.8300	1.487	1.547	1.679	1.930	1.872	1.824	.8300	1.429	1.639	1.944	2.131	2.024	1.944
.8400	1.487	1.547	1.679	1.930	1.872	1.824	.8400	1.429	1.639	1.944	2.131	2.024	1.944
.8500	1.487	1.547	1.679	1.930	1.872	1.824	.8500	1.429	1.639	1.944	2.131	2.024	1.944
.8600	1.487	1.547	1.679	1.930	1.872	1.824	.8600	1.429	1.639	1.944	2.131	2.024	1.944
.8700	1.487	1.547	1.679	1.930	1.872	1.824	.8700	1.429	1.639	1.944	2.131	2.024	1.944
.8800	1.487	1.547	1.679	1.930	1.872	1.824	.8800	1.429	1.639	1.944	2.131	2.024	1.944
.8900	1.487	1.547	1.679	1.930	1.872	1.824	.8900	1.429	1.639	1.944	2.131	2.024	1.944
.9000	1.487	1.547	1.679	1.930	1.872	1.824	.9000	1.429	1.639	1.944	2.131	2.024	1.944
.9100	1.487	1.547	1.679	1.930	1.872	1.824	.9100	1.429	1.639	1.944	2.131	2.024	1.944
.9200	1.487	1.547	1.679	1.930	1.872	1.824	.9200	1.429	1.639	1.944	2.131	2.024	1.944
.9300	1.487	1.547	1.679	1.930	1.872	1.824	.9300	1.429	1.639	1.944	2.131	2.024	1.944
.9400	1.487	1.547	1.679	1.930	1.872	1.824	.9400	1.429	1.639	1.944	2.131	2.024	1.944
.9500	1.487	1.547	1.679	1.930	1.872	1.824	.9500	1.429	1.639	1.944	2.131	2.024	1.944
.9600	1.487	1.547	1.679	1.930	1.872	1.824	.9600	1.429	1.639	1.944	2.131	2.024	1.944
.9700	1.487	1.547	1.679	1.930	1.872	1.824	.9700	1.429	1.639	1.944	2.131	2.024	1.944
.9800	1.487	1.547	1.679	1.930	1.872	1.824	.9800	1.429	1.639	1.944	2.131	2.024	1.944
.9900	1.487	1.547	1.679	1.930	1.872	1.824	.9900	1.429	1.639	1.944	2.131	2.024	1.944
1.0000	1.487	1.547	1.679	1.930	1.872	1.824	1.0000	1.429	1.639	1.944	2.131	2.024	1.944

Lower surface orifice is denoted by -.

TABLE 15 - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN. ($\delta_1=20^\circ$; $\delta_2=20^\circ$)

M=0.60

Table with columns for X/C (a) and S (alpha=0, 4, 8, 12, 16, 20 degrees) for M=0.60. Rows range from 0.0000 to 1.0583.

M=0.80

Table with columns for X/C (a) and S (alpha=0, 4, 8, 12, 16, 20 degrees) for M=0.80. Rows range from 0.0000 to 1.0583.

M=0.90

Table with columns for X/C (a) and S (alpha=0, 4, 8, 12, 16, 20 degrees) for M=0.90. Rows range from 0.0000 to 1.0583.

M=0.93

Table with columns for X/C (a) and S (alpha=0, 4, 8, 12, 16, 20 degrees) for M=0.93. Rows range from 0.0000 to 1.0583.

Lower surface orifice is denoted by -.

TABLE 16. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\delta_f=20^\circ$; $\delta_t=10^\circ$)

M=0.60

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	.460	1.179	1.929	2.152	2.182	1.922
.0100	1.384	2.657	2.593	2.414	1.993	1.868
.0200	1.053	1.656	2.659	2.374	1.978	1.868
.0300	1.343	1.924	2.615	2.145	1.993	1.864
.0400	1.105	.810	.801	2.532	1.455	1.411
.0500	1.319	1.704	2.591	2.067	1.982	1.867
.0600	1.128	.891	.896	.615	.536	.480
.0700	1.331	1.550	2.362	.701	1.951	1.866
.0800	1.137	1.526	2.102	.941	1.902	1.833
.0900	1.328	1.527	2.175	1.971	1.919	1.850
.1000	1.153	1.017	1.077	.883	1.766	1.705
.1100	1.365	1.526	1.986	1.941	1.902	1.833
.1200	1.128	1.027	1.110	.883	1.824	1.783
.1300	1.377	1.536	1.832	1.917	1.899	1.824
.1400	1.153	1.003	1.170	.834	1.859	1.810
.1500	1.348	1.527	1.794	1.866	1.855	1.824
.1600	1.143	1.052	1.080	.887	1.860	1.835
.1700	1.354	1.539	1.558	1.811	1.853	1.824
.1800	1.143	1.052	.853	.850	1.793	1.793
.1900	1.354	1.536	1.534	1.777	1.841	1.810
.2000	1.143	1.052	1.083	.834	1.811	1.824
.2100	1.354	1.536	1.534	1.777	1.841	1.810
.2200	1.143	1.052	1.083	.834	1.811	1.824
.2300	1.354	1.536	1.534	1.777	1.841	1.810
.2400	1.143	1.052	1.083	.834	1.811	1.824
.2500	1.354	1.536	1.534	1.777	1.841	1.810
.2600	1.143	1.052	1.083	.834	1.811	1.824
.2700	1.354	1.536	1.534	1.777	1.841	1.810
.2800	1.143	1.052	1.083	.834	1.811	1.824
.2900	1.354	1.536	1.534	1.777	1.841	1.810
.3000	1.143	1.052	1.083	.834	1.811	1.824
.3100	1.354	1.536	1.534	1.777	1.841	1.810
.3200	1.143	1.052	1.083	.834	1.811	1.824
.3300	1.354	1.536	1.534	1.777	1.841	1.810
.3400	1.143	1.052	1.083	.834	1.811	1.824
.3500	1.354	1.536	1.534	1.777	1.841	1.810
.3600	1.143	1.052	1.083	.834	1.811	1.824
.3700	1.354	1.536	1.534	1.777	1.841	1.810
.3800	1.143	1.052	1.083	.834	1.811	1.824
.3900	1.354	1.536	1.534	1.777	1.841	1.810
.4000	1.143	1.052	1.083	.834	1.811	1.824
.4100	1.354	1.536	1.534	1.777	1.841	1.810
.4200	1.143	1.052	1.083	.834	1.811	1.824
.4300	1.354	1.536	1.534	1.777	1.841	1.810
.4400	1.143	1.052	1.083	.834	1.811	1.824
.4500	1.354	1.536	1.534	1.777	1.841	1.810
.4600	1.143	1.052	1.083	.834	1.811	1.824
.4700	1.354	1.536	1.534	1.777	1.841	1.810
.4800	1.143	1.052	1.083	.834	1.811	1.824
.4900	1.354	1.536	1.534	1.777	1.841	1.810
.5000	1.143	1.052	1.083	.834	1.811	1.824
.5100	1.354	1.536	1.534	1.777	1.841	1.810
.5200	1.143	1.052	1.083	.834	1.811	1.824
.5300	1.354	1.536	1.534	1.777	1.841	1.810
.5400	1.143	1.052	1.083	.834	1.811	1.824
.5500	1.354	1.536	1.534	1.777	1.841	1.810
.5600	1.143	1.052	1.083	.834	1.811	1.824
.5700	1.354	1.536	1.534	1.777	1.841	1.810
.5800	1.143	1.052	1.083	.834	1.811	1.824
.5900	1.354	1.536	1.534	1.777	1.841	1.810
.6000	1.143	1.052	1.083	.834	1.811	1.824
.6100	1.354	1.536	1.534	1.777	1.841	1.810
.6200	1.143	1.052	1.083	.834	1.811	1.824
.6300	1.354	1.536	1.534	1.777	1.841	1.810
.6400	1.143	1.052	1.083	.834	1.811	1.824
.6500	1.354	1.536	1.534	1.777	1.841	1.810
.6600	1.143	1.052	1.083	.834	1.811	1.824
.6700	1.354	1.536	1.534	1.777	1.841	1.810
.6800	1.143	1.052	1.083	.834	1.811	1.824
.6900	1.354	1.536	1.534	1.777	1.841	1.810
.7000	1.143	1.052	1.083	.834	1.811	1.824
.7100	1.354	1.536	1.534	1.777	1.841	1.810
.7200	1.143	1.052	1.083	.834	1.811	1.824
.7300	1.354	1.536	1.534	1.777	1.841	1.810
.7400	1.143	1.052	1.083	.834	1.811	1.824
.7500	1.354	1.536	1.534	1.777	1.841	1.810
.7600	1.143	1.052	1.083	.834	1.811	1.824
.7700	1.354	1.536	1.534	1.777	1.841	1.810
.7800	1.143	1.052	1.083	.834	1.811	1.824
.7900	1.354	1.536	1.534	1.777	1.841	1.810
.8000	1.143	1.052	1.083	.834	1.811	1.824
.8100	1.354	1.536	1.534	1.777	1.841	1.810
.8200	1.143	1.052	1.083	.834	1.811	1.824
.8300	1.354	1.536	1.534	1.777	1.841	1.810
.8400	1.143	1.052	1.083	.834	1.811	1.824
.8500	1.354	1.536	1.534	1.777	1.841	1.810
.8600	1.143	1.052	1.083	.834	1.811	1.824
.8700	1.354	1.536	1.534	1.777	1.841	1.810
.8800	1.143	1.052	1.083	.834	1.811	1.824
.8900	1.354	1.536	1.534	1.777	1.841	1.810
.9000	1.143	1.052	1.083	.834	1.811	1.824
.9100	1.354	1.536	1.534	1.777	1.841	1.810
.9200	1.143	1.052	1.083	.834	1.811	1.824
.9300	1.354	1.536	1.534	1.777	1.841	1.810
.9400	1.143	1.052	1.083	.834	1.811	1.824
.9500	1.354	1.536	1.534	1.777	1.841	1.810
.9600	1.143	1.052	1.083	.834	1.811	1.824
.9700	1.354	1.536	1.534	1.777	1.841	1.810
.9800	1.143	1.052	1.083	.834	1.811	1.824
.9900	1.354	1.536	1.534	1.777	1.841	1.810
1.0000	1.143	1.052	1.083	.834	1.811	1.824

M=0.80

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	.500	.847	1.202	1.672	1.985	1.985
.0100	1.304	2.562	2.678	2.180	2.057	2.433
.0200	1.130	.771	.584	.482	.433	.433
.0300	1.364	2.273	2.611	2.175	2.083	2.083
.0400	1.105	.810	.801	.608	.524	.524
.0500	1.362	1.754	2.463	2.167	2.083	2.083
.0600	1.128	.896	.891	.688	.597	.597
.0700	1.375	1.659	2.552	2.127	2.031	2.031
.0800	1.137	1.094	1.094	.948	.859	.859
.0900	1.407	1.628	2.048	2.078	2.006	2.006
.1000	1.150	.995	.995	.804	.729	.729
.1100	1.388	1.527	2.152	2.039	1.979	1.979
.1200	1.153	1.017	1.077	.904	.829	.829
.1300	1.393	1.526	1.932	2.039	1.979	1.979
.1400	1.153	1.017	1.110	.883	.819	.819
.1500	1.407	1.628	2.048	2.078	2.006	2.006
.1600	1.153	1.017	1.110	.883	.819	.819
.1700	1.407	1.628	2.048	2.078	2.006	2.006
.1800	1.153	1.017	1.110	.883	.819	.819
.1900	1.407	1.628	2.048	2.078	2.006	2.006
.2000	1.153	1.017	1.110	.883	.819	.819
.2100	1.407	1.628	2.048	2.078	2.006	2.006
.2200	1.153	1.017	1.110	.883	.819	.819
.2300	1.407	1.628	2.048	2.078	2.006	2.006
.2400	1.153	1.017	1.110	.883	.819	.819
.2500	1.407	1.628	2.048	2.078	2.006	2.006
.2600	1.153	1.017	1.110	.883	.819	.819
.2700	1.407	1.628	2.048	2.078	2.006	2.006
.2800	1.153	1.017	1.110	.883	.819	.819
.2900	1.407	1.628	2.048	2.078	2.006	2.006
.3000	1.153	1.017	1.110	.883	.819	.819
.3100	1.407	1.628	2.048	2.078	2.006	2.006
.3200	1.153	1.017	1.110	.883	.819	.819
.3300	1.407	1.628	2.048	2.078	2.006	2.006
.3400	1.153	1.017	1.110	.883	.819	.819
.3500	1.407	1.628	2.048	2.078	2.006	2.006
.3600	1.153	1.017	1.110	.883	.819	.819
.3700	1.407	1.628	2.048	2.078	2.006	2.006
.3800	1.153	1.017	1.110	.883	.819	.819
.3900	1.407	1.628	2.048	2.078	2.006	2.006
.4000	1.153	1.017	1.110	.883	.819	.819
.4100	1.407	1.628	2.048	2.078	2.006	2.006
.4200	1.153	1.017	1.110	.883	.819	.819
.4300	1.407	1.628	2.048	2.078	2.006	2.006
.4400	1.153	1.017	1.110	.883	.819	.819
.4500	1.407	1.628	2.048	2.078	2.006	2.006
.4600	1.153	1.017	1.110	.883	.819	.819
.4700	1.407	1.628	2.048	2.078	2.006	2.006
.4800	1.153	1.017	1.110	.883	.819	.819
.4900	1.407	1.628	2.048	2.078	2.006	2.006
.5000	1.153	1.017	1.110	.883	.819	.819
.5100	1.407	1.628	2.048	2.078	2.006	2.006
.5200	1.153	1.017	1.110	.883	.819	.819
.5300	1.407	1.628	2.048	2.078	2.006	2.006
.5400	1.153	1.017	1.110	.883	.819	.819
.5500	1.407	1.628	2.048	2.078	2.006	2.006
.5600	1.153	1.017	1.110	.883	.819	.819
.5700	1.407	1.628	2.048	2.078	2.006	2.006
.5800	1.153	1.017	1.110	.883	.819	.819
.5900	1.407	1.628	2.048	2.078	2.006	2.006
.6000	1.153	1.017	1.110	.883	.819	.819
.6100	1.407	1.628	2.048	2.078	2.006	2.006

TABLE 17. - PRESSURE COEFFICIENTS AT $\alpha=0.46$ SEMISPAN.

($\delta_f=20^\circ$; $\delta_r=20^\circ$)

M=0.60

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.448	1.120	1.770	2.017	2.333	2.027
.0100	1.278	2.682	2.244	2.124	2.053	1.876
.0200	1.118	2.516	2.516	2.419	1.987	1.770
.0300	1.274	1.827	2.703	2.107	2.081	1.872
.0400	1.138	1.838	2.662	2.441	1.966	1.820
.0500	1.266	1.639	2.110	2.072	2.088	1.875
.0600	1.160	1.918	1.754	1.636	1.557	1.489
.0700	1.280	1.538	1.998	2.034	2.056	1.877
.0800	1.180	1.014	1.887	1.774	1.709	1.641
.0900	1.301	1.485	1.846	1.970	2.016	1.851
.1000	1.182	1.041	1.931	1.841	1.786	1.723
.1100	1.378	1.476	1.823	1.921	1.986	1.855
.1200	1.159	1.656	1.969	1.891	1.851	1.801
.1300	1.377	1.484	1.628	1.891	1.951	1.839
.1400	1.129	1.033	1.869	1.906	1.880	1.849
.1500	1.402	1.477	1.872	1.888	1.914	1.814
.1600	1.049	1.002	1.947	1.906	1.890	1.869
.1700	1.414	1.467	1.833	1.801	1.883	1.786
.1800	1.075	1.940	1.898	1.871	1.870	1.853
.1900	1.414	1.450	1.803	1.766	1.859	1.776
.2000	1.041	1.907	1.875	1.863	1.858	1.853
.2100	1.391	1.428	1.829	1.828	1.854	1.779
.2200	1.082	1.847	1.829	1.820	1.815	1.810
.2300	1.484	1.503	1.811	1.702	1.837	1.771
.2400	1.092	1.505	1.805	1.689	1.830	1.764
.2500	1.382	1.499	1.828	1.830	1.830	1.830
.2600	1.023	1.525	1.814	1.678	1.825	1.769
.2700	1.397	1.716	1.828	1.687	1.694	1.698
.2800	1.072	1.654	1.854	1.646	1.808	1.775
.2900	1.372	1.484	1.844	1.689	1.786	1.761
.3000	1.067	1.701	1.879	1.669	1.680	1.675
.3100	1.460	1.405	1.826	1.583	1.766	1.748
.3200	1.033	1.831	1.845	1.620	1.794	1.801
.3300	1.370	1.334	1.822	1.531	1.731	1.735
.3400	1.083	1.876	1.861	1.662	1.905	1.912
.3500	1.247	1.850	1.870	1.620	1.722	1.722
.3600	1.033	1.951	1.896	1.620	1.033	1.033
.3700	1.180	1.268	1.832	1.462	1.708	1.726
.3800	1.060	1.059	1.854	1.073	1.458	1.413
.3900	1.111	1.272	1.819	1.420	1.678	1.715
.4000	1.004	1.210	1.816	1.244	1.376	1.424
.4100	1.058	1.263	1.889	1.357	1.634	1.695
.4200	1.046	1.209	1.820	1.200	1.781	1.815
.4300	1.038	1.246	1.854	1.401	1.659	1.699
.4400	1.023	1.317	1.858	1.538	1.772	1.846
.4500	1.023	1.317	1.858	1.538	1.772	1.846
.4600	1.043	1.199	1.832	1.458	1.710	1.772
.4700	1.053	1.126	1.814	1.328	1.632	1.691
.4800	1.058	1.112	1.814	1.348	1.655	1.746

M=0.80

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.504	1.828	1.319	1.684	2.033	2.080
.0100	1.261	2.488	2.196	2.244	2.102	1.942
.0200	1.121	1.803	1.596	2.492	2.438	1.406
.0300	1.338	2.020	2.030	2.443	2.127	1.934
.0400	1.133	1.716	1.676	2.243	2.127	1.462
.0500	1.333	1.716	1.835	2.715	2.622	1.535
.0600	1.100	1.016	1.835	2.139	2.073	1.823
.0700	1.344	1.641	1.957	2.139	2.073	1.939
.0800	1.133	1.106	1.855	2.139	2.073	1.680
.0900	1.333	1.603	1.784	2.139	2.073	1.917
.1000	1.133	1.014	1.851	2.139	2.073	1.763
.1100	1.333	1.741	1.741	2.065	2.015	1.904
.1200	1.133	1.154	1.705	1.977	1.913	1.843
.1300	1.457	1.634	1.666	1.977	1.913	1.883
.1400	1.129	1.433	1.645	1.977	1.913	1.873
.1500	1.416	1.605	1.645	1.977	1.913	1.873
.1600	1.129	1.072	1.645	1.977	1.913	1.873
.1700	1.402	1.598	1.645	1.977	1.913	1.873
.1800	1.049	1.005	1.964	1.977	1.913	1.873
.1900	1.414	1.576	1.823	1.895	1.897	1.855
.2000	1.075	1.966	1.915	1.915	1.894	1.861
.2100	1.391	1.966	1.882	1.892	1.892	1.860
.2200	1.082	1.898	1.882	1.884	1.884	1.858
.2300	1.484	1.924	1.898	1.854	1.854	1.858
.2400	1.092	1.645	1.839	1.877	1.888	1.851
.2500	1.382	1.836	1.836	1.836	1.836	1.836
.2600	1.023	1.836	1.836	1.836	1.836	1.836
.2700	1.397	1.630	1.836	1.836	1.836	1.836
.2800	1.072	1.770	1.836	1.836	1.836	1.836
.2900	1.372	1.754	1.836	1.836	1.836	1.836
.3000	1.067	1.754	1.836	1.836	1.836	1.836
.3100	1.372	1.754	1.836	1.836	1.836	1.836
.3200	1.067	1.754	1.836	1.836	1.836	1.836
.3300	1.372	1.754	1.836	1.836	1.836	1.836
.3400	1.067	1.754	1.836	1.836	1.836	1.836
.3500	1.372	1.754	1.836	1.836	1.836	1.836
.3600	1.067	1.754	1.836	1.836	1.836	1.836
.3700	1.372	1.754	1.836	1.836	1.836	1.836
.3800	1.067	1.754	1.836	1.836	1.836	1.836
.3900	1.372	1.754	1.836	1.836	1.836	1.836
.4000	1.067	1.754	1.836	1.836	1.836	1.836
.4100	1.372	1.754	1.836	1.836	1.836	1.836
.4200	1.067	1.754	1.836	1.836	1.836	1.836
.4300	1.372	1.754	1.836	1.836	1.836	1.836
.4400	1.067	1.754	1.836	1.836	1.836	1.836
.4500	1.372	1.754	1.836	1.836	1.836	1.836
.4600	1.067	1.754	1.836	1.836	1.836	1.836
.4700	1.372	1.754	1.836	1.836	1.836	1.836
.4800	1.067	1.754	1.836	1.836	1.836	1.836
.4900	1.372	1.754	1.836	1.836	1.836	1.836

M=0.90

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.555	2.718	1.037	1.392	2.532	2.532
.0100	1.233	2.240	2.506	2.694	2.565	2.565
.0200	1.138	2.903	2.694	2.694	2.702	2.702
.0300	1.373	1.035	1.839	2.371	2.494	2.494
.0400	1.133	1.828	2.371	2.371	2.494	2.494
.0500	1.449	1.111	1.931	2.266	2.378	2.378
.0600	1.150	1.884	1.675	2.266	2.378	2.378
.0700	1.454	1.217	1.051	2.190	2.309	2.309
.0800	1.140	1.665	2.190	2.190	2.309	2.309
.0900	1.421	1.247	1.115	2.002	2.178	2.178
.1000	1.148	1.666	1.877	2.002	2.178	2.178
.1100	1.421	1.261	1.151	1.051	1.051	1.051
.1200	1.153	1.700	1.922	2.048	2.048	2.048
.1300	1.453	1.212	1.133	1.059	1.059	1.059
.1400	1.156	1.721	1.880	2.059	2.059	2.059
.1500	1.453	1.443	1.086	1.027	1.027	1.027
.1600	1.159	1.721	1.880	2.059	2.059	2.059
.1700	1.453	1.443	1.086	1.027	1.027	1.027
.1800	1.159	1.721	1.880	2.059	2.059	2.059
.1900	1.453	1.443	1.086	1.027	1.027	1.027
.2000	1.159	1.721	1.880	2.059	2.059	2.059
.2100	1.453	1.443	1.086	1.027	1.027	1.027
.2200	1.159	1.721	1.880	2.059	2.059	2.059
.2300	1.453	1.443	1.086	1.027	1.027	1.027
.2400	1.159	1.721	1.880	2.059	2.059	2.059
.2500	1.453	1.443	1.086	1.027	1.027	1.027
.2600	1.159	1.721	1.880	2.059	2.059	2.059
.2700	1.453	1.443	1.086	1.027	1.027	1.027
.2800	1.159	1.721	1.880	2.059	2.059	2.059
.2900	1.453	1.443	1.086	1.027	1.027	1.027
.3000	1.159	1.721	1.880	2.059	2.059	2.059
.3100	1.453	1.443	1.086	1.027	1.027	1.027
.3200	1.159	1.721	1.880	2.059	2.059	2.059
.3300	1.453	1.443	1.086	1.027	1.027	1.027
.3400	1.159	1.721	1.880	2.059	2.059	2.059
.3500	1.453	1.443	1.086	1.027	1.027	1.027
.3600	1.159	1.721	1.880	2.059	2.059	2.059
.3700	1.453	1.443	1.086	1.027	1.027	1.027
.3800	1.159	1.721	1.880	2.059	2.059	2.059
.3900	1.453	1.443	1.086	1.027	1.027	1.027
.4000	1.159	1.721	1.880	2.059	2.059	2.059
.4100	1.453	1.443	1.086	1.027	1.027	1.027
.4200	1.159	1.721	1.880	2.059	2.059	2.059
.4300	1.453	1.443	1.086	1.027	1.027	1.027
.4400	1.159	1.721	1.880	2.059	2.059	2.059
.4500	1.453	1.443	1.086	1.027	1.027	1.027
.4600	1.159	1.721	1.880	2.059	2.059	2.059
.4700	1.453	1.443	1.086	1.027	1.027	1.027
.4800	1.159	1.721	1.880	2.059	2.059	2.059
.4900	1.453	1.443	1.086	1.027	1.027	1.027

M=0.93

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.571	2.705	1.037	1.392	2.532	2.532
.0100	1.243	2.181	2.446	2.694	2.565	2.565
.0200	1.141	2.948	2.117	2.140		

TABLE 18. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

($\delta_1=30^\circ$; $\delta_2=0^\circ$)

M=0.60

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
-0.0000	1.4655	1.2559	1.0474	0.8401	0.6342	0.4297
-0.0100	1.4559	1.2471	1.0399	0.8399	0.6342	0.4297
-0.0200	1.4463	1.2382	1.0396	0.8396	0.6340	0.4295
-0.0300	1.4367	1.2292	1.0392	0.8392	0.6338	0.4293
-0.0400	1.4271	1.2202	1.0388	0.8388	0.6336	0.4291
-0.0500	1.4175	1.2112	1.0384	0.8384	0.6334	0.4289
-0.0600	1.4079	1.2022	1.0380	0.8380	0.6332	0.4287
-0.0700	1.3983	1.1932	1.0376	0.8376	0.6330	0.4285
-0.0800	1.3887	1.1842	1.0372	0.8372	0.6328	0.4283
-0.0900	1.3791	1.1752	1.0368	0.8368	0.6326	0.4281
-0.1000	1.3695	1.1662	1.0364	0.8364	0.6324	0.4279
-0.1100	1.3599	1.1572	1.0360	0.8360	0.6322	0.4277
-0.1200	1.3503	1.1482	1.0356	0.8356	0.6320	0.4275
-0.1300	1.3407	1.1392	1.0352	0.8352	0.6318	0.4273
-0.1400	1.3311	1.1302	1.0348	0.8348	0.6316	0.4271
-0.1500	1.3215	1.1212	1.0344	0.8344	0.6314	0.4269
-0.1600	1.3119	1.1122	1.0340	0.8340	0.6312	0.4267
-0.1700	1.3023	1.1032	1.0336	0.8336	0.6310	0.4265
-0.1800	1.2927	1.0942	1.0332	0.8332	0.6308	0.4263
-0.1900	1.2831	1.0852	1.0328	0.8328	0.6306	0.4261
-0.2000	1.2735	1.0762	1.0324	0.8324	0.6304	0.4259
-0.2100	1.2639	1.0672	1.0320	0.8320	0.6302	0.4257
-0.2200	1.2543	1.0582	1.0316	0.8316	0.6300	0.4255
-0.2300	1.2447	1.0492	1.0312	0.8312	0.6298	0.4253
-0.2400	1.2351	1.0402	1.0308	0.8308	0.6296	0.4251
-0.2500	1.2255	1.0312	1.0304	0.8304	0.6294	0.4249
-0.2600	1.2159	1.0222	1.0300	0.8300	0.6292	0.4247
-0.2700	1.2063	1.0132	1.0296	0.8296	0.6290	0.4245
-0.2800	1.1967	1.0042	1.0292	0.8292	0.6288	0.4243
-0.2900	1.1871	0.9952	1.0288	0.8288	0.6286	0.4241
-0.3000	1.1775	0.9862	1.0284	0.8284	0.6284	0.4239
-0.3100	1.1679	0.9772	1.0280	0.8280	0.6282	0.4237
-0.3200	1.1583	0.9682	1.0276	0.8276	0.6280	0.4235
-0.3300	1.1487	0.9592	1.0272	0.8272	0.6278	0.4233
-0.3400	1.1391	0.9502	1.0268	0.8268	0.6276	0.4231
-0.3500	1.1295	0.9412	1.0264	0.8264	0.6274	0.4229
-0.3600	1.1199	0.9322	1.0260	0.8260	0.6272	0.4227
-0.3700	1.1103	0.9232	1.0256	0.8256	0.6270	0.4225
-0.3800	1.1007	0.9142	1.0252	0.8252	0.6268	0.4223
-0.3900	1.0911	0.9052	1.0248	0.8248	0.6266	0.4221
-0.4000	1.0815	0.8962	1.0244	0.8244	0.6264	0.4219
-0.4100	1.0719	0.8872	1.0240	0.8240	0.6262	0.4217
-0.4200	1.0623	0.8782	1.0236	0.8236	0.6260	0.4215
-0.4300	1.0527	0.8692	1.0232	0.8232	0.6258	0.4213
-0.4400	1.0431	0.8602	1.0228	0.8228	0.6256	0.4211
-0.4500	1.0335	0.8512	1.0224	0.8224	0.6254	0.4209
-0.4600	1.0239	0.8422	1.0220	0.8220	0.6252	0.4207
-0.4700	1.0143	0.8332	1.0216	0.8216	0.6250	0.4205
-0.4800	1.0047	0.8242	1.0212	0.8212	0.6248	0.4203
-0.4900	0.9951	0.8152	1.0208	0.8208	0.6246	0.4201
-0.5000	0.9855	0.8062	1.0204	0.8204	0.6244	0.4199
-0.5100	0.9759	0.7972	1.0200	0.8200	0.6242	0.4197
-0.5200	0.9663	0.7882	1.0196	0.8196	0.6240	0.4195
-0.5300	0.9567	0.7792	1.0192	0.8192	0.6238	0.4193
-0.5400	0.9471	0.7702	1.0188	0.8188	0.6236	0.4191
-0.5500	0.9375	0.7612	1.0184	0.8184	0.6234	0.4189
-0.5600	0.9279	0.7522	1.0180	0.8180	0.6232	0.4187
-0.5700	0.9183	0.7432	1.0176	0.8176	0.6230	0.4185
-0.5800	0.9087	0.7342	1.0172	0.8172	0.6228	0.4183
-0.5900	0.8991	0.7252	1.0168	0.8168	0.6226	0.4181
-0.6000	0.8895	0.7162	1.0164	0.8164	0.6224	0.4179
-0.6100	0.8799	0.7072	1.0160	0.8160	0.6222	0.4177
-0.6200	0.8703	0.6982	1.0156	0.8156	0.6220	0.4175
-0.6300	0.8607	0.6892	1.0152	0.8152	0.6218	0.4173
-0.6400	0.8511	0.6802	1.0148	0.8148	0.6216	0.4171
-0.6500	0.8415	0.6712	1.0144	0.8144	0.6214	0.4169
-0.6600	0.8319	0.6622	1.0140	0.8140	0.6212	0.4167
-0.6700	0.8223	0.6532	1.0136	0.8136	0.6210	0.4165
-0.6800	0.8127	0.6442	1.0132	0.8132	0.6208	0.4163
-0.6900	0.8031	0.6352	1.0128	0.8128	0.6206	0.4161
-0.7000	0.7935	0.6262	1.0124	0.8124	0.6204	0.4159
-0.7100	0.7839	0.6172	1.0120	0.8120	0.6202	0.4157
-0.7200	0.7743	0.6082	1.0116	0.8116	0.6200	0.4155
-0.7300	0.7647	0.5992	1.0112	0.8112	0.6198	0.4153
-0.7400	0.7551	0.5902	1.0108	0.8108	0.6196	0.4151
-0.7500	0.7455	0.5812	1.0104	0.8104	0.6194	0.4149
-0.7600	0.7359	0.5722	1.0100	0.8100	0.6192	0.4147
-0.7700	0.7263	0.5632	1.0096	0.8096	0.6190	0.4145
-0.7800	0.7167	0.5542	1.0092	0.8092	0.6188	0.4143
-0.7900	0.7071	0.5452	1.0088	0.8088	0.6186	0.4141
-0.8000	0.6975	0.5362	1.0084	0.8084	0.6184	0.4139
-0.8100	0.6879	0.5272	1.0080	0.8080	0.6182	0.4137
-0.8200	0.6783	0.5182	1.0076	0.8076	0.6180	0.4135
-0.8300	0.6687	0.5092	1.0072	0.8072	0.6178	0.4133
-0.8400	0.6591	0.5002	1.0068	0.8068	0.6176	0.4131
-0.8500	0.6495	0.4912	1.0064	0.8064	0.6174	0.4129
-0.8600	0.6399	0.4822	1.0060	0.8060	0.6172	0.4127
-0.8700	0.6303	0.4732	1.0056	0.8056	0.6170	0.4125
-0.8800	0.6207	0.4642	1.0052	0.8052	0.6168	0.4123
-0.8900	0.6111	0.4552	1.0048	0.8048	0.6166	0.4121
-0.9000	0.6015	0.4462	1.0044	0.8044	0.6164	0.4119
-0.9100	0.5919	0.4372	1.0040	0.8040	0.6162	0.4117
-0.9200	0.5823	0.4282	1.0036	0.8036	0.6160	0.4115
-0.9300	0.5727	0.4192	1.0032	0.8032	0.6158	0.4113
-0.9400	0.5631	0.4102	1.0028	0.8028	0.6156	0.4111
-0.9500	0.5535	0.4012	1.0024	0.8024	0.6154	0.4109
-0.9600	0.5439	0.3922	1.0020	0.8020	0.6152	0.4107
-0.9700	0.5343	0.3832	1.0016	0.8016	0.6150	0.4105
-0.9800	0.5247	0.3742	1.0012	0.8012	0.6148	0.4103
-0.9900	0.5151	0.3652	1.0008	0.8008	0.6146	0.4101
-1.0000	0.5055	0.3562	1.0004	0.8004	0.6144	0.4099

M=0.80

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
-0.0000	1.4994	1.2868	1.0730	0.8600	0.6470	0.4340
-0.0100	1.4898	1.2782	1.0644	0.8514	0.6384	0.4254
-0.0200	1.4802	1.2696	1.0558	0.8428	0.6298	0.4168
-0.0300	1.4706	1.2610	1.0472	0.8342	0.6212	0.4082
-0.0400	1.4610	1.2524	1.0386	0.8256	0.6126	0.3996
-0.0500	1.4514	1.2438	1.0300	0.8170	0.6040	0.3910
-0.0600	1.4418	1.2352	1.0214	0.8084	0.5954	0.3824
-0.0700	1.4322	1.2266	1.0128	0.7998	0.5868	0.3738
-0.0800	1.4226	1.2180	1.0042	0.7912	0.5782	0.3652
-0.0900	1.4130	1.2094	0.9956	0.7826	0.5696	0.3566
-0.1000	1.4034	1.2008	0.9870	0.7740	0.5610	0.3480
-0.1100	1.3938	1.1922	0.9784	0.7654	0.5524	0.3394
-0.1200	1.3842	1.1836	0.9698	0.7568	0.5438	0.3308
-0.1300	1.3746	1.1750	0.9612	0.7482	0.5352	0.3222
-0.1400	1.3650	1.1664	0.9526	0.7396	0.5266	0.3136
-0.1500	1.3554	1.1578	0.9440	0.7310	0.5180	0.3050
-0.1600	1.3458	1.1492	0.9354	0.7224	0.5094	0.2964
-0.1700	1.3362	1.1406	0.9268	0.7138	0.5008	0.2878
-0.1800	1.3266	1.1320	0.9182	0.7052	0.4922	0.2792
-0.1900	1.3170	1.1234	0.9096	0.6966	0.4836	0.2706
-0.2000	1.3074	1.1148	0.9010	0.6880	0.4750	0.2620
-0.2100	1.2978	1.1062	0.8924	0.6794	0.4664	0.2534
-0.2200	1.2882	1.0976	0.8838	0.6708	0.4578	0.2448
-0.2300	1.2786	1.0890	0.8752	0.6622	0.4492	0.2362
-0.2400	1.2690	1.0804	0.8666	0.6536	0.4406	0.2276
-0.2500	1.2594	1.0718	0.8580	0.6450	0.4320	0.2190
-0.2600	1.2498	1.0632	0.8494	0.6364	0.4234	0.2104
-0.2700	1.2402	1.0546	0.8408	0.6278	0.4148	0.2018
-0.2800	1.2306	1.0460	0.8322	0.6192	0.4062	0.1932
-0.2900	1.2210	1.0374	0.8236	0.6106	0.3976	0.1846
-0.3000	1.2114	1.0288	0.8150	0.6020	0.3890	0.1760
-0.3100	1.2018	1.0202	0.8064	0.5934	0.3804	0.1674
-0.3200	1.1922	1.0116	0.7978	0.5848	0.3718	0.1588
-0.3300	1.1826	1.0030	0.7892	0.5762	0.3632	0.1502
-0.3400	1.1730	0.9944	0.7806	0.5676	0.3546	0.1416
-0.3500	1.1634	0.9858	0.7720	0.5590	0.3460	0.1330
-0.3600	1.1538	0.9772	0.7634	0.5504	0.3374	0.1244
-0.3700	1.1442	0.9686	0.7548	0.5418	0.3288	0.1158
-0.3800	1.1346	0.9600	0.7462	0.5332	0.3202	0.1072
-0.3900	1.1250	0.9514	0.7376	0.5246	0.3116	0.0986
-0.4000	1.1154	0.9428	0.7290	0.5160	0.3030	0.0900
-0.4100	1.1058	0.9342	0.7204	0.5074	0.2944	0.08

TABLE 19. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\delta_f=30^\circ$; $\delta_r=20^\circ$)

M=0.60

X/C (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.00000	1.502	1.344	1.290	2.019	2.142	1.622
.00100	1.542	1.373	1.290	2.073	2.197	1.573
.00200	1.586	1.402	1.290	2.127	2.252	1.524
.00300	1.630	1.431	1.290	2.181	2.307	1.475
.00400	1.674	1.460	1.290	2.235	2.362	1.426
.00500	1.718	1.489	1.290	2.289	2.417	1.377
.00600	1.762	1.518	1.290	2.343	2.472	1.328
.00700	1.806	1.547	1.290	2.397	2.527	1.279
.00800	1.850	1.576	1.290	2.451	2.582	1.230
.00900	1.894	1.605	1.290	2.505	2.637	1.181
.01000	1.938	1.634	1.290	2.559	2.692	1.132
.01100	1.982	1.663	1.290	2.613	2.747	1.083
.01200	2.026	1.692	1.290	2.667	2.802	1.034
.01300	2.070	1.721	1.290	2.721	2.857	0.985
.01400	2.114	1.750	1.290	2.775	2.912	0.936
.01500	2.158	1.779	1.290	2.829	2.967	0.887
.01600	2.202	1.808	1.290	2.883	3.022	0.838
.01700	2.246	1.837	1.290	2.937	3.077	0.789
.01800	2.290	1.866	1.290	2.991	3.132	0.740
.01900	2.334	1.895	1.290	3.045	3.187	0.691
.02000	2.378	1.924	1.290	3.099	3.242	0.642
.02100	2.422	1.953	1.290	3.153	3.297	0.593
.02200	2.466	1.982	1.290	3.207	3.352	0.544
.02300	2.510	2.011	1.290	3.261	3.407	0.495
.02400	2.554	2.040	1.290	3.315	3.462	0.446
.02500	2.598	2.069	1.290	3.369	3.517	0.397
.02600	2.642	2.098	1.290	3.423	3.572	0.348
.02700	2.686	2.127	1.290	3.477	3.627	0.299
.02800	2.730	2.156	1.290	3.531	3.682	0.250
.02900	2.774	2.185	1.290	3.585	3.737	0.201
.03000	2.818	2.214	1.290	3.639	3.792	0.152
.03100	2.862	2.243	1.290	3.693	3.847	0.103
.03200	2.906	2.272	1.290	3.747	3.902	0.054
.03300	2.950	2.301	1.290	3.801	3.957	0.005
.03400	2.994	2.330	1.290	3.855	4.012	-0.044
.03500	3.038	2.359	1.290	3.909	4.067	-0.093
.03600	3.082	2.388	1.290	3.963	4.122	-0.142
.03700	3.126	2.417	1.290	4.017	4.177	-0.191
.03800	3.170	2.446	1.290	4.071	4.232	-0.240
.03900	3.214	2.475	1.290	4.125	4.287	-0.289
.04000	3.258	2.504	1.290	4.179	4.342	-0.338
.04100	3.302	2.533	1.290	4.233	4.397	-0.387
.04200	3.346	2.562	1.290	4.287	4.452	-0.436
.04300	3.390	2.591	1.290	4.341	4.507	-0.485
.04400	3.434	2.620	1.290	4.395	4.562	-0.534
.04500	3.478	2.649	1.290	4.449	4.617	-0.583
.04600	3.522	2.678	1.290	4.503	4.672	-0.632
.04700	3.566	2.707	1.290	4.557	4.727	-0.681
.04800	3.610	2.736	1.290	4.611	4.782	-0.730
.04900	3.654	2.765	1.290	4.665	4.837	-0.779
.05000	3.698	2.794	1.290	4.719	4.892	-0.828
.05100	3.742	2.823	1.290	4.773	4.947	-0.877
.05200	3.786	2.852	1.290	4.827	5.002	-0.926
.05300	3.830	2.881	1.290	4.881	5.057	-0.975
.05400	3.874	2.910	1.290	4.935	5.112	-1.024
.05500	3.918	2.939	1.290	4.989	5.167	-1.073
.05600	3.962	2.968	1.290	5.043	5.222	-1.122
.05700	4.006	2.997	1.290	5.097	5.277	-1.171
.05800	4.050	3.026	1.290	5.151	5.332	-1.220
.05900	4.094	3.055	1.290	5.205	5.387	-1.269
.06000	4.138	3.084	1.290	5.259	5.442	-1.318
.06100	4.182	3.113	1.290	5.313	5.497	-1.367
.06200	4.226	3.142	1.290	5.367	5.552	-1.416
.06300	4.270	3.171	1.290	5.421	5.607	-1.465
.06400	4.314	3.200	1.290	5.475	5.662	-1.514
.06500	4.358	3.229	1.290	5.529	5.717	-1.563
.06600	4.402	3.258	1.290	5.583	5.772	-1.612
.06700	4.446	3.287	1.290	5.637	5.827	-1.661
.06800	4.490	3.316	1.290	5.691	5.882	-1.710
.06900	4.534	3.345	1.290	5.745	5.937	-1.759
.07000	4.578	3.374	1.290	5.799	5.992	-1.808
.07100	4.622	3.403	1.290	5.853	6.047	-1.857
.07200	4.666	3.432	1.290	5.907	6.102	-1.906
.07300	4.710	3.461	1.290	5.961	6.157	-1.955
.07400	4.754	3.490	1.290	6.015	6.212	-2.004
.07500	4.798	3.519	1.290	6.069	6.267	-2.053
.07600	4.842	3.548	1.290	6.123	6.322	-2.102
.07700	4.886	3.577	1.290	6.177	6.377	-2.151
.07800	4.930	3.606	1.290	6.231	6.432	-2.200
.07900	4.974	3.635	1.290	6.285	6.487	-2.249
.08000	5.018	3.664	1.290	6.339	6.542	-2.298
.08100	5.062	3.693	1.290	6.393	6.597	-2.347
.08200	5.106	3.722	1.290	6.447	6.652	-2.396
.08300	5.150	3.751	1.290	6.501	6.707	-2.445
.08400	5.194	3.780	1.290	6.555	6.762	-2.494
.08500	5.238	3.809	1.290	6.609	6.817	-2.543
.08600	5.282	3.838	1.290	6.663	6.872	-2.592
.08700	5.326	3.867	1.290	6.717	6.927	-2.641
.08800	5.370	3.896	1.290	6.771	6.982	-2.690
.08900	5.414	3.925	1.290	6.825	7.037	-2.739
.09000	5.458	3.954	1.290	6.879	7.092	-2.788
.09100	5.502	3.983	1.290	6.933	7.147	-2.837
.09200	5.546	4.012	1.290	6.987	7.202	-2.886
.09300	5.590	4.041	1.290	7.041	7.257	-2.935
.09400	5.634	4.070	1.290	7.095	7.312	-2.984
.09500	5.678	4.099	1.290	7.149	7.367	-3.033
.09600	5.722	4.128	1.290	7.203	7.422	-3.082
.09700	5.766	4.157	1.290	7.257	7.477	-3.131
.09800	5.810	4.186	1.290	7.311	7.532	-3.180
.09900	5.854	4.215	1.290	7.365	7.587	-3.229
.10000	5.898	4.244	1.290	7.419	7.642	-3.278

M=0.80

X/C (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.00000	1.509	1.303	1.238	1.727	2.067	1.408
.00100	1.408	2.646	2.986	2.251	2.091	1.416
.00200	1.138	2.730	2.549	2.468	2.132	1.426
.00300	1.411	2.487	2.233	2.259	2.132	1.426
.00400	1.713	2.866	2.683	2.516	2.132	1.426
.00500	1.938	1.760	2.603	2.242	2.056	1.377
.00600	1.920	1.945	2.775	2.665	2.574	1.500
.00700	1.911	1.939	2.818	2.411	2.021	1.133
.00800	1.918	1.903	2.877	2.782	2.698	1.500
.00900	1.925	1.673	2.911	2.169	2.003	1.133
.01000	1.932	1.603	2.918	2.854	2.760	1.500
.01100	1.940	1.633	2.918	2.408	1.986	1.133
.01200	1.947	1.683	2.918	2.898	2.779	1.500
.01300	1.955	1.711	2.913	2.851	2.792	1.500
.01400	1.962	1.746	2.913	2.804	2.760	1.500
.01500	1.969	1.781	2.913	2.757	2.728	1.500
.01600	1.976	1.816	2.913	2.710	2.696	1.500
.01700	1.983	1.851	2.913	2.663	2.664	1.500
.01800	1.990	1.886	2.913	2.616	2.632	1.500
.01900	1.997	1.921	2.913	2.569	2.600	1.500
.02000	2.004	1.956	2.913	2.522	2.568	1.500
.02100	2.011	1.991	2.913	2.475	2.536	1.500
.02200	2.018	2.026	2.913	2.428	2.504	1.500
.02300	2.025	2.061	2.913	2.381	2.472	1.500
.02400	2.032	2.096	2.913	2.334	2.440	1.500
.02500	2.039	2.131	2.913	2.287	2.408	1.500
.02600	2.046	2.166	2.913	2.240	2.376	1.500
.02700	2.053	2.201	2.913	2.193	2.344	1.500
.02800	2.060	2.236	2.913	2.146	2.312	1.500
.02900	2.067	2.271	2.913	2.099	2.280	1.500
.03000	2.074	2.306	2.913	2.052	2.248	1.500
.03100	2.081	2.341	2.913	2.005	2.216	1.500
.03200	2.088	2.376	2.913	1.958	2.184	1.500
.03300	2.095	2.411	2.913	1.911	2.152	1.500
.03400	2.102	2.446	2.913	1.864	2.120	1.500
.03500	2.109	2.481	2.913	1.817	2.088	1.500
.03600	2.116	2.516	2.913	1.770	2.056	1.500
.03700	2.123	2.551	2.913	1.723	2.024	1.500
.03800	2.130	2.586	2.913	1.676	1.992	1.500
.03900	2.137	2.621	2.913	1.629	1.960	1.500
.04000	2.144	2.656	2.913	1.582	1.928	1.500
.04100	2.151	2.691	2.913	1.535	1.896	1.500
.04200	2.158	2.726	2.913	1.488	1.864	1.500
.04300	2.165	2.761	2.913	1.441	1.832	1.500
.04400	2.172	2.796	2.913	1.394	1.800	1.500
.04500	2.179	2.831	2.913	1.347	1.768	1.500
.04600	2.186	2.866	2.913	1.300	1.736	1.500
.04700	2.193	2.901	2.913	1.253	1.704	1.500
.04800	2.200	2.936	2.913	1.206	1.672	1.500
.04900	2.207	2.971	2.913	1.159	1.640	1.500
.05000	2.214	3.006	2.913	1.112	1.608	1.500
.05100	2.221	3.041	2.913	1.065	1.576	1.500
.05200	2.228	3.076	2.913	1.018	1.544	1.500
.05300	2.235	3.111	2.913	0.971	1.512	1.500
.05400	2.242	3.146	2.913	0.924	1.480	1.500
.05500	2.249					

TABLE 20.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
 $(\delta=30^\circ; \delta_f=-10^\circ)$

M=0.60

$\frac{X}{C}$ (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.7478	1.2279	1.1873	1.1990	2.1133	1.9217
.0100	1.8461	2.2743	2.4444	2.0259	2.1336	1.8884
.0200	1.9203	2.619	2.470	2.402	1.3666	1.3662
.0400	1.9333	2.0521	2.4461	2.3040	1.9948	1.8882
.0600	1.9359	1.7771	2.608	2.514	1.447	1.399
.0800	1.9379	1.7445	2.428	2.036	1.9446	1.8888
.1000	1.9376	1.8556	2.702	2.598	1.5224	1.4611
.1500	1.9321	1.6607	2.2363	2.3012	1.9282	1.877
.2000	1.9233	1.554	2.0190	1.9777	1.8893	1.8782
.2500	1.9108	1.4546	1.9259	1.936	1.872	1.854
.3000	1.8953	1.3559	1.8877	2.022	1.781	1.727
.3500	1.8768	1.2558	1.7751	1.9217	1.8557	1.8441
.4000	1.8557	1.1541	1.6654	1.8882	1.784	1.799
.4500	1.8320	1.0533	1.805	1.791	1.764	1.739
.5000	1.8057	1.0533	1.8526	1.7842	1.8225	1.815
.5500	1.7764	1.0533	1.8442	1.782	1.8225	1.815
.6000	1.7449	1.0533	1.805	1.791	1.764	1.739
.6500	1.7114	1.0533	1.8526	1.7842	1.8225	1.815
.7000	1.6759	1.0533	1.8442	1.782	1.8225	1.815
.7500	1.6384	1.0533	1.805	1.791	1.764	1.739
.8000	1.5989	1.0533	1.8526	1.7842	1.8225	1.815
.8500	1.5574	1.0533	1.8442	1.782	1.8225	1.815
.9000	1.5139	1.0533	1.805	1.791	1.764	1.739
.9500	1.4684	1.0533	1.8526	1.7842	1.8225	1.815
1.0000	1.4209	1.0533	1.8442	1.782	1.8225	1.815

M=0.80

$\frac{X}{C}$ (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.497	1.896	1.7347	1.726	2.012	2.026
.0100	1.878	2.626	2.1905	2.1255	2.059	1.945
.0200	1.8155	2.749	2.555	2.481	2.422	1.399
.0400	1.8388	2.432	2.7899	2.257	2.095	1.853
.0600	1.8191	1.888	2.711	2.855	2.095	1.853
.0800	1.8277	1.750	2.7786	2.254	2.070	1.853
.1000	1.8221	1.899	2.7969	1.774	2.083	1.853
.1500	1.8240	1.653	2.611	2.208	1.995	1.853
.2000	1.8118	1.663	1.9956	2.137	1.978	1.913
.2500	1.8223	1.607	1.9956	2.137	1.978	1.913
.3000	1.8473	1.667	1.728	2.072	1.958	1.906
.3500	1.8716	1.606	1.955	1.903	1.832	1.761
.4000	1.8913	1.677	1.778	2.026	1.934	1.829
.4500	1.9059	1.669	1.798	1.947	1.887	1.882
.5000	1.9133	1.670	1.773	1.905	1.806	1.768
.5500	1.9190	1.670	1.773	1.905	1.806	1.768
.6000	1.9230	1.670	1.773	1.905	1.806	1.768
.6500	1.9254	1.650	1.779	1.922	1.877	1.884
.7000	1.9281	1.674	1.784	1.936	1.947	1.882
.7500	1.9303	1.673	1.783	1.945	1.887	1.882
.8000	1.9322	1.673	1.783	1.945	1.887	1.882
.8500	1.9338	1.673	1.783	1.945	1.887	1.882
.9000	1.9351	1.673	1.783	1.945	1.887	1.882
.9500	1.9361	1.673	1.783	1.945	1.887	1.882
1.0000	1.9368	1.673	1.783	1.945	1.887	1.882

M=0.90

$\frac{X}{C}$ (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.541	1.749	1.7051	1.7438	2.1352	2.1352
.0100	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.0200	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.0400	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.0600	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.0800	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.1000	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.1500	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.2000	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.2500	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.3000	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.3500	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.4000	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.4500	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.5000	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.5500	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.6000	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.6500	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.7000	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.7500	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.8000	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.8500	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.9000	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
.9500	1.8309	2.304	2.8539	2.3528	2.1352	2.1352
1.0000	1.8309	2.304	2.8539	2.3528	2.1352	2.1352

M=0.93

$\frac{X}{C}$ (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.555	1.723	1.7000	1.7438	2.1352	2.1352
.0100	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.0200	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.0400	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.0600	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.0800	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.1000	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.1500	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.2000	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.2500	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.3000	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.3500	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.4000	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.4500	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.5000	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.5500	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.6000	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.6500	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.7000	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.7500	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.8000	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.8500	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.9000	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
.9500	1.8398	2.328	2.8539	2.3528	2.1352	2.1352
1.0000	1.8398	2.328	2.8539	2.3528	2.1352	2.1352

^a Lower surface orifice is denoted by -.

TABLE 21.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\delta_f=30^\circ$; $\delta_r=20^\circ$)

M=0.60

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.462	1.205	1.759	2.245	2.361	2.210
.0100	1.375	2.637	2.216	2.388	2.034	1.880
.0200	1.063	1.656	2.499	2.374	2.374	1.365
.0400	1.131	1.930	2.154	2.279	2.040	1.877
.0600	1.318	1.700	2.637	2.526	2.454	1.409
.0800	1.355	2.077	2.71	2.156	2.034	1.896
.1000	1.350	1.885	1.986	2.070	1.999	1.885
.1500	1.143	1.982	1.757	1.677	1.677	1.671
.2033	1.336	1.534	1.866	1.996	1.966	1.871
.2533	1.130	1.999	1.888	1.820	1.742	1.691
.3033	1.374	1.532	1.781	1.962	1.939	1.861
.4167	1.094	1.993	1.904	1.855	1.799	1.752
.4567	1.424	1.537	1.884	1.848	1.805	1.771
.5067	1.015	1.982	1.884	1.855	1.851	1.767
.5567	1.458	1.543	1.679	1.894	1.888	1.821
.5867	1.946	1.891	1.891	1.891	1.891	1.799
.6300	1.807	1.203	1.660	1.823	1.733	1.735
.6500	1.854	1.817	1.772	1.763	1.755	1.735
.6700	1.484	1.346	1.644	1.823	1.823	1.793
.6800	1.807	1.807	1.807	1.807	1.807	1.710
.6900	1.443	1.508	1.609	1.786	1.834	1.797
.7100	1.728	1.699	1.674	1.672	1.672	1.653
.7200	1.570	1.632	1.655	1.709	1.822	1.780
.7300	1.654	1.574	1.574	1.574	1.574	1.544
.7400	1.653	1.646	1.667	1.761	1.809	1.782
.7500	1.783	1.769	1.711	1.741	1.798	1.774
.8000	1.827	1.746	1.669	1.733	1.785	1.761
.8200	1.574	1.606	1.606	1.606	1.606	1.541
.8533	1.617	1.617	1.617	1.617	1.617	1.511
.8733	1.699	1.657	1.657	1.657	1.657	1.514
.8833	1.800	1.746	1.746	1.746	1.746	1.614
.9033	1.645	1.626	1.464	1.605	1.740	1.731
.9133	1.840	1.806	1.789	1.810	1.841	1.830
.9333	1.774	1.589	1.433	1.945	1.979	1.721
.9433	1.990	1.923	1.904	1.904	1.904	1.721
.9633	1.546	1.582	1.402	1.548	1.713	1.712
.9733	1.403	1.098	1.083	1.111	1.689	1.699
.9833	1.385	1.405	1.388	1.411	1.590	1.608
1.0033	1.403	1.434	1.372	1.485	1.650	1.689
1.0133	1.334	1.367	1.331	1.492	1.646	1.668
1.0333	1.439	1.505	1.283	1.543	1.718	1.712
1.0433	1.280	1.335	1.257	1.453	1.672	1.690
1.0533	1.777	1.371	1.277	1.479	1.713	1.736

M=0.80

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.510	1.852	1.348	1.747	2.094	2.075
.0100	1.322	2.496	2.200	2.281	2.085	1.957
.0200	1.331	2.784	2.581	2.483	2.432	1.396
.0400	1.245	1.919	2.727	2.603	2.523	1.452
.0600	1.355	1.745	2.684	2.293	2.103	1.925
.0800	1.350	1.885	2.029	2.248	2.058	1.940
.1000	1.350	1.654	1.654	1.654	1.654	1.654
.1500	1.239	1.078	1.078	1.078	1.078	1.078
.2033	1.398	1.619	1.649	2.143	2.025	1.923
.2533	1.280	1.103	1.075	1.684	1.629	1.584
.3033	1.446	1.625	1.751	2.076	1.998	1.908
.4167	1.224	1.094	1.091	1.938	1.859	1.784
.4567	1.424	1.543	1.543	1.543	1.543	1.543
.5067	1.127	1.038	1.038	1.038	1.038	1.038
.5567	1.530	1.641	1.683	1.884	1.937	1.870
.5867	1.023	1.261	1.261	1.261	1.261	1.261
.6300	1.549	1.639	1.717	1.951	1.909	1.857
.6500	1.911	1.868	1.868	1.868	1.868	1.749
.6700	1.545	1.623	1.727	1.929	1.892	1.825
.6800	1.807	1.807	1.807	1.807	1.807	1.724
.6900	1.501	1.590	1.698	1.909	1.859	1.852
.7100	1.767	1.742	1.719	1.707	1.697	1.665
.7200	1.633	1.639	1.631	1.893	1.933	1.846
.7300	1.638	1.639	1.614	1.880	1.876	1.837
.7400	1.725	1.701	1.675	1.656	1.644	1.614
.7500	1.671	1.719	1.834	1.876	1.875	1.840
.8000	1.624	1.609	1.609	1.609	1.609	1.539
.8200	1.604	1.596	1.596	1.596	1.596	1.522
.8533	1.683	1.668	1.655	1.647	1.645	1.621
.8733	1.676	1.758	1.731	1.714	1.737	1.714
.8833	1.624	1.599	1.708	1.774	1.825	1.813
.9033	1.877	1.847	1.836	1.844	1.853	1.833
.9133	1.652	1.591	1.762	1.760	1.813	1.764
.9333	1.008	1.980	1.965	1.970	1.963	1.933
.9433	1.680	1.620	1.697	1.740	1.803	1.799
.9633	1.493	1.472	1.451	1.455	1.455	1.422
.9733	1.454	1.616	1.659	1.723	1.790	1.786
.9833	1.485	1.482	1.467	1.484	1.503	1.471
1.0033	1.408	1.515	1.556	1.658	1.758	1.787
1.0133	1.334	1.367	1.331	1.492	1.646	1.668
1.0333	1.439	1.505	1.283	1.543	1.718	1.712
1.0433	1.280	1.335	1.257	1.453	1.672	1.690
1.0533	1.777	1.371	1.277	1.479	1.713	1.736

M=0.90

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.555	1.852	1.055	1.410	1.055	2.022
.0100	1.356	2.885	2.554	2.410	2.055	1.661
.0200	1.340	2.166	2.499	2.538	2.499	1.661
.0400	1.337	1.847	2.488	2.441	2.385	1.661
.0600	1.337	1.092	2.776	2.911	2.911	1.661
.1000	1.389	1.668	2.287	2.301	2.287	1.661
.1500	1.111	1.111	2.287	2.287	2.287	1.661
.2033	1.422	1.650	2.194	2.260	2.194	1.661
.2533	1.387	1.197	1.073	2.968	1.073	1.661
.3033	1.486	1.658	1.883	2.136	1.883	1.661
.4167	1.317	1.178	1.082	2.993	1.082	1.661
.4567	1.550	1.702	1.925	2.078	1.925	1.661
.5067	1.104	1.104	1.033	2.993	1.033	1.661
.5567	1.062	1.006	1.961	1.914	1.961	1.661
.6300	1.571	1.733	1.859	1.948	1.859	1.661
.6500	1.937	1.902	1.872	1.841	1.819	1.661
.6700	1.522	1.690	1.819	1.929	1.819	1.661
.6800	1.874	1.847	1.833	1.799	1.822	1.661
.6900	1.472	1.621	1.767	1.767	1.767	1.661
.7100	1.794	1.768	1.752	1.727	1.752	1.661
.7200	1.607	1.743	1.860	1.916	1.860	1.661
.7300	1.619	1.752	1.864	1.911	1.864	1.661
.7400	1.753	1.742	1.719	1.687	1.719	1.661
.7500	1.644	1.776	1.884	1.919	1.884	1.661
.7700	1.729	1.734	1.706	1.670	1.706	1.661
.7800	1.732	1.819	1.923	1.936	1.923	1.661
.8100	1.777	1.678	1.787	1.909	1.787	1.661
.8200	1.697	1.724	1.699	1.875	1.699	1.661
.8300	1.763	1.679	1.797	1.875	1.797	1.661
.8533	1.747	1.693	1.776	1.865	1.776	1.661
.8733	1.747	1.672	1.776	1.846	1.776	1.661
.8833	1.756	1.755	1.751	1.742	1.751	1.661
.9033	1.779	1.678	1.850	1.846	1.678	1.661
.9133	1.772	1.680	1.783	1.841	1.783	1.661
.9333	1.779	1.702	1.911	1.834	1.791	1.661
.9433	1.779	1.152	1.142	1.137	1.142	1.661
.9633	1.777	1.705	1.780	1.800	1.778	1.661
.9733	1.777	1.705	1.780	1.800	1.778	1.661
.9833	1.777	1.705	1.780	1.800	1.778	1.661
1.0033	1.777	1.705	1.780	1.800	1.778	1.661
1.0133	1.777	1.705	1.780	1.800	1.778	1.661
1.0233	1.777	1.705	1.780	1.800	1.778	1.661
1.0333	1.777	1.705	1.780	1.800	1.778	1.661
1.0433	1.777	1.705	1.780	1.800	1.778	1.661
1.0533	1.777	1.705	1.780	1.800	1.778	1.661

M=0.93

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.568	1.720	1.009	1.410	1.009	2.022
.0100	1.411	2.933	2.554	2.410	2.055	1.661
.0200	1.349	2.121	2.442	2.442	2.442	1.661
.0400	1.336	1.931	2.347	2.347	2.347	1.661
.0600	1.336	1.092	2.776	2.911	2.911	1.661
.1000	1.466	1.131	2.287	2.287	2.287	1.661
.1500	1.133	1.133	2.287	2.287	2.287	1.661
.2033	1.425	1.688	2.173	2.173	2.173	1.661
.2533	1.483	1.243	1.073	2.968	1.073	1.661
.3033	1.482	1.679	1.885	2.136	1.885	1.661
.4167	1.382	1.220	1.114	2.993	1.114	1.661
.4567	1.553	1.708	1.931	2.078	1.931	1.661
.5067	1.104	1.104	1.033	2.993	1.033	1.661
.5567	1.079	1.028	1.961	1.914	1.961	1.661
.6300	1.616	1.744	1.863	1.948	1.863	1.661
.6500	1.952	1.911	1.881	1.819	1.819	1.661
.6700	1.562	1.703	1.818	1.919	1.818	1.661
.6800	1.884	1.856	1.834	1.799	1.822	1.661
.6900	1.491	1.623	1.767	1.767	1.767	1.661
.7100	1.809	1.785	1.769	1.769	1.769	1.661
.7200	1.635	1.750	1.852	1.916	1.852	1.661
.7300	1.641	1.762	1.857			

TABLE 22.- PRESSURE COEFFICIENTS AT 0.46 SEMISPA.
($\delta_1 = 10^\circ$; $\delta_2 = 0^\circ$)

M=0.60

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.463	1.153	1.839	2.154	2.014	1.910
.0100	1.319	1.649	2.477	2.408	2.405	1.838
.0200	1.169	1.805	2.425	2.110	1.921	1.857
.0300	1.040	1.858	2.651	2.511	1.442	1.997
.0400	1.192	1.546	1.895	2.086	1.913	1.865
.0500	1.333	1.065	1.884	2.030	1.877	1.878
.0600	1.472	1.140	1.618	2.053	1.899	1.876
.0700	1.611	1.065	1.884	1.758	1.663	1.598
.0800	1.750	1.338	1.666	1.595	1.863	1.867
.0900	1.889	1.389	1.440	1.677	1.791	1.735
.1000	2.028	1.343	1.568	1.948	1.837	1.855
.1100	2.167	1.284	1.477	1.981	1.903	1.862
.1200	2.306	1.225	1.407	1.909	1.817	1.843
.1300	2.445	1.166	1.336	1.837	1.731	1.824
.1400	2.584	1.107	1.265	1.765	1.645	1.805
.1500	2.723	1.048	1.194	1.693	1.559	1.786
.1600	2.862	0.989	1.123	1.621	1.473	1.767
.1700	3.001	0.930	1.052	1.549	1.387	1.748
.1800	3.140	0.871	0.981	1.477	1.301	1.729
.1900	3.279	0.812	0.910	1.405	1.215	1.710
.2000	3.418	0.753	0.839	1.333	1.129	1.691
.2100	3.557	0.694	0.768	1.261	1.043	1.672
.2200	3.696	0.635	0.697	1.189	0.957	1.653
.2300	3.835	0.576	0.626	1.117	0.871	1.634
.2400	3.974	0.517	0.555	1.045	0.785	1.615
.2500	4.113	0.458	0.484	0.973	0.699	1.596
.2600	4.252	0.399	0.413	0.901	0.613	1.577
.2700	4.391	0.340	0.342	0.829	0.527	1.558
.2800	4.530	0.281	0.271	0.757	0.441	1.539
.2900	4.669	0.222	0.200	0.685	0.355	1.520
.3000	4.808	0.163	0.129	0.613	0.269	1.501
.3100	4.947	0.104	0.058	0.541	0.183	1.482
.3200	5.086	0.045	0.000	0.469	0.097	1.463
.3300	5.225	0.000	0.000	0.397	0.011	1.444
.3400	5.364	0.000	0.000	0.325	0.000	1.425
.3500	5.503	0.000	0.000	0.253	0.000	1.406
.3600	5.642	0.000	0.000	0.181	0.000	1.387
.3700	5.781	0.000	0.000	0.109	0.000	1.368
.3800	5.920	0.000	0.000	0.037	0.000	1.349
.3900	6.059	0.000	0.000	0.000	0.000	1.330
.4000	6.198	0.000	0.000	0.000	0.000	1.311
.4100	6.337	0.000	0.000	0.000	0.000	1.292
.4200	6.476	0.000	0.000	0.000	0.000	1.273
.4300	6.615	0.000	0.000	0.000	0.000	1.254
.4400	6.754	0.000	0.000	0.000	0.000	1.235
.4500	6.893	0.000	0.000	0.000	0.000	1.216
.4600	7.032	0.000	0.000	0.000	0.000	1.197
.4700	7.171	0.000	0.000	0.000	0.000	1.178
.4800	7.310	0.000	0.000	0.000	0.000	1.159
.4900	7.449	0.000	0.000	0.000	0.000	1.140
.5000	7.588	0.000	0.000	0.000	0.000	1.121
.5100	7.727	0.000	0.000	0.000	0.000	1.102
.5200	7.866	0.000	0.000	0.000	0.000	1.083
.5300	8.005	0.000	0.000	0.000	0.000	1.064
.5400	8.144	0.000	0.000	0.000	0.000	1.045
.5500	8.283	0.000	0.000	0.000	0.000	1.026
.5600	8.422	0.000	0.000	0.000	0.000	1.007
.5700	8.561	0.000	0.000	0.000	0.000	0.988
.5800	8.700	0.000	0.000	0.000	0.000	0.969
.5900	8.839	0.000	0.000	0.000	0.000	0.950
.6000	8.978	0.000	0.000	0.000	0.000	0.931
.6100	9.117	0.000	0.000	0.000	0.000	0.912
.6200	9.256	0.000	0.000	0.000	0.000	0.893
.6300	9.395	0.000	0.000	0.000	0.000	0.874
.6400	9.534	0.000	0.000	0.000	0.000	0.855
.6500	9.673	0.000	0.000	0.000	0.000	0.836
.6600	9.812	0.000	0.000	0.000	0.000	0.817
.6700	9.951	0.000	0.000	0.000	0.000	0.798
.6800	10.090	0.000	0.000	0.000	0.000	0.779
.6900	10.229	0.000	0.000	0.000	0.000	0.760
.7000	10.368	0.000	0.000	0.000	0.000	0.741
.7100	10.507	0.000	0.000	0.000	0.000	0.722
.7200	10.646	0.000	0.000	0.000	0.000	0.703
.7300	10.785	0.000	0.000	0.000	0.000	0.684
.7400	10.924	0.000	0.000	0.000	0.000	0.665
.7500	11.063	0.000	0.000	0.000	0.000	0.646
.7600	11.202	0.000	0.000	0.000	0.000	0.627
.7700	11.341	0.000	0.000	0.000	0.000	0.608
.7800	11.480	0.000	0.000	0.000	0.000	0.589
.7900	11.619	0.000	0.000	0.000	0.000	0.570
.8000	11.758	0.000	0.000	0.000	0.000	0.551
.8100	11.897	0.000	0.000	0.000	0.000	0.532
.8200	12.036	0.000	0.000	0.000	0.000	0.513
.8300	12.175	0.000	0.000	0.000	0.000	0.494
.8400	12.314	0.000	0.000	0.000	0.000	0.475
.8500	12.453	0.000	0.000	0.000	0.000	0.456
.8600	12.592	0.000	0.000	0.000	0.000	0.437
.8700	12.731	0.000	0.000	0.000	0.000	0.418
.8800	12.870	0.000	0.000	0.000	0.000	0.399
.8900	13.009	0.000	0.000	0.000	0.000	0.380
.9000	13.148	0.000	0.000	0.000	0.000	0.361
.9100	13.287	0.000	0.000	0.000	0.000	0.342
.9200	13.426	0.000	0.000	0.000	0.000	0.323
.9300	13.565	0.000	0.000	0.000	0.000	0.304
.9400	13.704	0.000	0.000	0.000	0.000	0.285
.9500	13.843	0.000	0.000	0.000	0.000	0.266
.9600	13.982	0.000	0.000	0.000	0.000	0.247
.9700	14.121	0.000	0.000	0.000	0.000	0.228
.9800	14.260	0.000	0.000	0.000	0.000	0.209
.9900	14.399	0.000	0.000	0.000	0.000	0.190
1.0000	14.538	0.000	0.000	0.000	0.000	0.171

M=0.80

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.508	1.000	1.500	1.873	2.094	1.953
.0100	1.267	1.706	1.526	1.455	1.442	1.448
.0200	1.267	2.408	2.499	2.134	1.989	1.921
.0300	1.325	2.913	2.709	2.588	1.507	1.444
.0400	1.272	1.732	2.785	2.128	1.981	1.921
.0500	1.304	1.660	2.634	2.120	1.968	1.913
.0600	1.330	1.038	2.821	2.698	1.604	1.526
.0700	1.356	1.111	2.938	2.821	1.691	1.604
.0800	1.382	1.555	1.704	2.944	1.933	1.893
.0900	1.408	1.522	1.617	1.987	1.920	1.884
.1000	1.434	1.494	1.617	1.678	1.987	1.884
.1100	1.460	1.267	1.428	1.047	1.970	1.895
.1200	1.486	1.458	1.553	1.936	1.894	1.884
.1300	1.512	1.309	1.428	1.523	1.936	1.884
.1400	1.538	1.350	1.440	1.902	1.878	1.878
.1500	1.564	1.309	1.329	1.829	1.817	1.878
.1600	1.590	1.350	1.329	1.829	1.817	1.878
.1700	1.616	1.384	1.306	1.829	1.817	1.878
.1800	1.642	1.384	1.306	1.829	1.817	1.878
.1900	1.668	1.417	1.327	1.833	1.847	1.859
.2000	1.694	1.417	1.327	1.833	1.847	1.859
.2100	1.720	1.442	1.327	1.833	1.847	1.859
.2200	1.746	1.442	1.327	1.833	1.847	1.859
.2300	1.772	1.442	1.327	1.833	1.847	1.859
.2400	1.798	1.442	1.327	1.833	1.847	1.859
.2500	1.824	1.442	1.327	1.833	1.847	1.859
.2600	1.850	1.442	1.327	1.833	1.847	1.859
.2700	1.876	1.442	1.327	1.833	1.847	1.859
.2800	1.902	1.442	1.327	1.833	1.847	1.859
.2900	1.928	1.442	1.327	1.833	1.847	1.859
.3000	1.954	1.442	1.327	1.833	1.847	1.859
.3100	1.980	1.442	1.327	1.833	1.847	1.859
.3200	2.006	1.442	1.327	1.833	1.847	1.859
.3300	2.032	1.442	1.327	1.833	1.847	1.859
.3400	2.058	1.442	1.327	1.833	1.847	1.859
.3500	2.084	1.442	1.327	1.833	1.847	1.859
.3600	2.110	1.442	1.327	1.833	1.847	1.859
.3700	2.136	1.442	1.327	1.833	1.847	1.859
.3800	2.162	1.442	1.327	1.833	1.847	1.859
.3900	2.188	1.442	1.327	1.833	1.847	1.859
.4000	2.214	1.442	1.327	1.833	1.847	1.859
.4100	2.240	1.442	1.327	1.833	1.847	1.859
.4200	2.266	1.442	1.327	1.833	1.847	1.859
.4300	2.292	1.442	1.327	1.833	1.847	1.859
.4400	2.318	1.442	1.327	1.833	1.847	1.859
.4500	2.344	1.442	1.327	1.833	1.847	1.859
.4600	2.370	1.442	1.327	1.833	1.847	1.859
.4700	2.396	1.442	1.327	1.833	1.847	1.859
.4800	2.422	1.442	1.327	1.833	1.847	1.859
.4900	2.448	1.442	1.327	1.833	1.847	1.859
.5000	2.474	1.442	1.327	1.833	1.847	1.859
.5100	2.500	1.442	1.327	1.833	1.847	1.859
.5200	2.526	1.442	1.327	1.833	1.847	1.859
.5300	2.552	1.442	1.327	1.833	1.847	1.859
.5400	2.578	1.442	1.327	1.833	1.847	1.859
.5500	2.604	1.442	1.327	1.833	1.847	1.859
.5600	2.630	1.442	1.327	1.833	1.847	1.859
.570						

TABLE 24.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\beta = -10^\circ$; $\delta = 20^\circ$)

M=0.60

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.468	1.284	1.1775	2.223	2.265	1.882
.0100	1.176	1.61	1.748	2.403	2.499	1.429
.0200	1.197	1.851	2.154	2.103	1.970	1.641
.0400	1.232	1.827	2.630	.500	.433	.388
.0600	1.191	1.595	1.988	2.106	1.953	1.640
.0800	1.237	1.940	2.750	.614	.529	.470
.1000	1.207	1.515	1.838	2.069	1.960	1.647
.1500	1.230	1.027	1.853	2.730	1.649	1.578
.2000	1.233	1.414	1.668	2.017	1.925	1.848
.2500	1.244	1.104	1.951	.855	.775	.709
.3000	1.228	1.376	1.605	1.988	1.904	1.833
.3500	1.276	1.165	1.039	1.949	1.886	1.826
.4167	1.218	1.334	1.514	1.953	1.887	1.844
.4567	1.301	1.208	1.099	1.027	.976	.922
.5067	1.198	1.280	1.444	1.136	.916	1.014
.5567	1.301	1.223	1.085	1.085	1.085	1.085
.6067	1.174	1.247	1.382	1.870	1.858	1.765
.6500	1.191	1.225	1.713	1.109	1.090	1.080
.6700	1.120	1.178	1.326	1.789	1.826	1.744
.6900	1.272	1.213	1.148	1.114	1.105	1.105
.7000	1.258	1.202	1.333	1.791	1.887	1.733
.7100	1.063	1.105	1.274	1.742	1.802	1.722
.7200	1.293	1.244	1.183	1.158	1.166	1.166
.7300	1.264	1.186	1.166	1.162	1.174	1.182
.7400	1.008	1.058	1.161	1.261	1.300	1.326
.7500	1.296	1.258	1.204	1.181	1.205	1.208
.7600	1.330	1.007	1.229	1.640	1.771	1.703
.7800	1.191	1.182	1.342	1.336	1.404	1.446
.8000	1.305	1.283	1.186	1.536	1.730	1.695
.8500	1.205	1.243	1.171	1.271	1.271	1.302
.8833	.986	1.037	1.194	1.499	1.714	1.692
.8933	1.086	1.111	1.078	1.081	1.170	1.197
.9033	1.260	1.186	1.255	1.864	1.700	1.733
.9133	1.019	1.042	1.008	1.018	1.111	1.144
.9233	1.111	1.144	1.200	1.431	1.679	1.685
.9333	1.260	1.180	1.217	1.384	1.061	1.091
.9433	1.176	1.211	1.194	1.394	1.422	1.454
.9533	1.144	1.232	1.207	1.909	1.009	1.028
.9633	1.284	1.212	1.287	1.368	1.628	1.670
.9733	1.089	1.107	1.106	1.373	1.616	1.670
.9833	.893	.878	.843	.855	.915	.907
.9933	1.084	1.087	1.055	1.864	.942	.954
1.0000	1.277	1.252	1.218	1.321	1.641	1.663
1.0100	1.115	1.201	1.189	1.934	1.083	1.089
1.0200	1.043	1.143	1.158	1.167	1.637	1.647
1.0300	1.054	1.104	1.100	1.061	1.314	1.367
1.0583	1.031	1.103	1.118	1.217	1.565	1.621

M=0.80

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.525	1.048	1.528	1.937	2.152	1.954
.0100	1.209	1.693	2.517	2.457	2.439	1.449
.0200	1.229	2.514	2.708	2.174	1.999	1.411
.0400	1.278	.901	1.696	.573	.496	.438
.0600	1.229	1.716	2.555	2.165	1.999	1.914
.0800	1.296	1.002	1.809	2.158	2.006	1.520
.1000	1.308	1.659	2.302	2.158	2.006	1.935
.1500	1.316	1.099	1.923	2.804	2.713	1.629
.2000	1.335	1.569	1.891	2.094	1.982	1.515
.2500	1.338	1.164	1.024	.921	.837	.757
.3000	1.342	1.521	1.708	2.045	1.960	1.897
.3500	1.335	1.244	1.280	1.891	1.849	1.871
.4167	1.432	1.337	1.449	1.955	1.912	1.881
.4567	1.422	1.301	1.185	1.112	1.052	.981
.5067	1.229	1.394	1.498	1.955	1.905	1.861
.5567	1.422	1.332	1.488	1.922	1.887	1.839
.6067	1.422	1.332	1.488	1.922	1.887	1.839
.6500	1.422	1.332	1.488	1.922	1.887	1.839
.6700	1.407	1.327	1.261	1.234	1.222	1.185
.6800	1.160	1.160	1.233	1.876	1.858	1.816
.6900	1.380	1.380	1.380	1.380	1.380	1.380
.7100	1.108	1.173	1.309	1.847	1.846	1.811
.7200	1.434	1.367	1.309	1.292	1.290	1.263
.7300	1.231	1.305	1.309	1.829	1.829	1.827
.7400	1.049	1.085	1.174	1.323	1.336	1.313
.7500	1.438	1.382	1.323	1.323	1.336	1.313
.7600	1.493	1.407	1.233	1.793	1.820	1.803
.7800	1.283	1.283	1.283	1.283	1.283	1.283
.8100	1.547	1.536	1.494	1.543	1.611	1.629
.8200	1.949	1.053	1.221	1.740	1.794	1.795
.8300	1.171	1.171	1.171	1.171	1.171	1.171
.8533	1.025	1.058	1.211	1.716	1.722	1.795
.8633	1.193	1.190	1.167	1.213	1.267	1.286
.8733	1.193	1.190	1.167	1.213	1.267	1.286
.8833	1.193	1.190	1.167	1.213	1.267	1.286
.8933	1.122	1.117	1.096	1.151	1.176	1.216
.9033	1.153	1.197	1.257	1.661	1.752	1.768
.9133	1.220	1.265	1.309	1.661	1.733	1.791
.9233	1.029	1.029	1.029	1.029	1.029	1.029
.9333	1.029	1.029	1.029	1.029	1.029	1.029
.9433	1.029	1.029	1.029	1.029	1.029	1.029
.9533	1.029	1.029	1.029	1.029	1.029	1.029
.9633	1.029	1.029	1.029	1.029	1.029	1.029
.9733	1.029	1.029	1.029	1.029	1.029	1.029
.9833	1.029	1.029	1.029	1.029	1.029	1.029
.9933	1.511	1.524	1.409	1.587	1.710	1.777
1.0000	1.013	.985	.947	.989	.993	.984
1.0100	1.399	1.440	1.440	1.440	1.440	1.440
1.0200	1.362	1.321	1.285	1.572	1.714	1.784
1.0300	1.029	.993	.972	1.072	1.119	1.126
1.0400	1.029	.993	.972	1.072	1.119	1.126
1.0500	1.029	.993	.972	1.072	1.119	1.126
1.0583	1.189	1.188	1.185	1.527	1.661	1.748

M=0.90

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.571	.924	1.234	1.620	1.595	1.595
.0100	1.219	.773	1.602	2.442	2.442	2.442
.0200	1.379	2.293	2.584	2.442	2.442	2.442
.0400	1.316	2.972	2.787	2.442	2.442	2.442
.0600	1.337	2.152	2.903	2.756	2.756	2.756
.1000	1.409	2.015	2.282	2.353	2.353	2.353
.1500	1.271	1.154	1.008	.871	.871	.871
.2000	1.457	1.722	2.161	2.285	2.285	2.285
.2500	1.407	1.242	1.121	.990	.990	.990
.3000	1.476	1.732	2.086	2.177	2.177	2.177
.3500	1.484	1.286	1.223	1.100	1.100	1.100
.4167	1.486	1.678	1.903	2.078	2.078	2.078
.4567	1.524	1.396	1.303	1.196	1.196	1.196
.5067	1.432	1.680	1.917	2.034	2.034	2.034
.5567	1.556	1.437	1.366	1.192	1.192	1.192
.6067	1.448	1.479	1.761	1.925	1.925	1.925
.6500	1.339	1.457	1.399	1.331	1.331	1.331
.6700	1.319	1.461	1.407	1.350	1.350	1.350
.6800	1.210	1.269	1.494	1.244	1.244	1.244
.6900	1.148	1.128	1.390	1.348	1.348	1.348
.7100	1.147	1.220	1.438	1.890	1.890	1.890
.7200	1.284	1.223	1.476	1.426	1.426	1.426
.7300	1.382	1.321	1.479	1.433	1.433	1.433
.7400	1.085	1.181	1.391	1.853	1.853	1.853
.7500	1.603	1.539	1.507	1.467	1.467	1.467
.7600	1.010	1.149	1.367	1.836	1.836	1.836
.7800	1.698	1.657	1.634	1.609	1.609	1.609
.8100	1.692	1.682	1.628	1.629	1.629	1.629
.8200	1.493	1.423	1.499	1.775	1.775	1.775
.8300	1.149	1.442	1.450	1.547	1.547	1.547
.8533	1.064	1.141	1.249	1.754	1.754	1.754
.8633	1.173	1.166	1.111	1.263	1.263	1.263
.8833	1.132	1.128	1.119	1.282	1.282	1.282
.9033	1.339	1.260	1.346	1.388	1.388	1.388
.9133	1.285	1.211	1.304	1.707	1.707	1.707
.9333	1.285	1.211	1.268	1.233	1.233	1.233
.9433	1.285	1.211	1.268	1.233	1.233	1.233
.9533	1.232	1.184	1.148	1.168	1.168	1.168
.9633	1.173	1.184	1.133	1.162	1.162	1.162
.9733	1.194	1.180	1.133	1.134	1.134	1.134
.9833	1.155	1.153	1.148	1.160	1.160	1.160
.9933	1.155	1.153	1.148	1.160	1.160	1.160
1.0000	1.153	1.144	1.095	1.107	1.107	1.107
1.0100	1.148	1.375	1.323	1.662	1.662	1.662
1.0200	1.148	1.375	1.323	1.662	1.662	1.662
1.0300	1.148	1.375	1.323	1.662	1.662	1.662
1.0400	1.148	1.375	1.323	1.662	1.662	1.662
1.0500	1.148	1.375	1.323	1.662	1.662	1.662
1.0583	1.327	1.259	1.229	1.596	1.596	1.596

M=0.93

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.587	.902	1.191	1.517	1.517	1.517
.0100	1.411	1.170	1.462	2.452	2.452	2.452
.0200	1.411	1.170	1.462	2.452	2.452	2.452
.0400	1.335	.997	1.809	2.367	2.367	2.367
.0600	1.359	2.018	2.36			

TABLE 25.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\delta_f = -10^\circ$; $\delta_r = -10^\circ$)

M=0.60

X/C (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.445	1.046	1.915	2.140	2.028	1.875
.0100-	1.337	1.080	1.483	1.406	1.404	1.421
.0200	1.081	1.716	2.456	2.098	1.908	1.843
.0400-	1.314	1.886	1.661	1.516	1.445	1.394
.0600	1.118	1.498	1.850	2.074	1.895	1.840
.0800-	1.290	1.989	1.776	1.639	1.549	1.480
.1000	1.148	1.444	1.775	2.051	1.894	1.845
.1200-	1.301	1.967	1.892	1.759	1.673	1.601
.1400	1.180	1.563	1.640	1.999	1.857	1.835
.1533-	1.321	1.148	1.001	1.989	1.806	1.738
.1600	1.180	1.322	1.544	1.956	1.836	1.829
.1733-	1.338	1.217	1.492	1.991	1.818	1.839
.1800	1.165	1.280	1.431	1.912	1.819	1.808
.1937-	1.379	1.260	1.159	1.074	1.020	1.969
.2000	1.418	1.322	1.247	1.190	1.165	1.779
.2133-	1.339	1.304	1.218	1.147	1.110	1.078
.2200	1.077	1.149	1.257	1.814	1.791	1.786
.2300-	1.418	1.322	1.247	1.190	1.165	1.156
.2400	1.222	1.373	1.201	1.151	1.116	1.076
.2567-	1.429	1.335	1.258	1.220	1.211	1.217
.2600	1.429	1.335	1.258	1.220	1.211	1.217
.2700-	1.429	1.335	1.258	1.220	1.211	1.217
.2800	1.429	1.335	1.258	1.220	1.211	1.217
.2933-	1.429	1.335	1.258	1.220	1.211	1.217
.3000	1.429	1.335	1.258	1.220	1.211	1.217
.3133-	1.429	1.335	1.258	1.220	1.211	1.217
.3200	1.429	1.335	1.258	1.220	1.211	1.217
.3300-	1.429	1.335	1.258	1.220	1.211	1.217
.3400	1.429	1.335	1.258	1.220	1.211	1.217
.3500-	1.429	1.335	1.258	1.220	1.211	1.217
.3600	1.429	1.335	1.258	1.220	1.211	1.217
.3733-	1.429	1.335	1.258	1.220	1.211	1.217
.3800	1.429	1.335	1.258	1.220	1.211	1.217
.3900-	1.429	1.335	1.258	1.220	1.211	1.217
.4000	1.429	1.335	1.258	1.220	1.211	1.217
.4133-	1.429	1.335	1.258	1.220	1.211	1.217
.4200	1.429	1.335	1.258	1.220	1.211	1.217
.4300-	1.429	1.335	1.258	1.220	1.211	1.217
.4400	1.429	1.335	1.258	1.220	1.211	1.217
.4500-	1.429	1.335	1.258	1.220	1.211	1.217
.4600	1.429	1.335	1.258	1.220	1.211	1.217
.4733-	1.429	1.335	1.258	1.220	1.211	1.217
.4800	1.429	1.335	1.258	1.220	1.211	1.217
.4900-	1.429	1.335	1.258	1.220	1.211	1.217
.5000	1.429	1.335	1.258	1.220	1.211	1.217
.5133-	1.429	1.335	1.258	1.220	1.211	1.217
.5200	1.429	1.335	1.258	1.220	1.211	1.217
.5300-	1.429	1.335	1.258	1.220	1.211	1.217
.5400	1.429	1.335	1.258	1.220	1.211	1.217
.5500-	1.429	1.335	1.258	1.220	1.211	1.217
.5600	1.429	1.335	1.258	1.220	1.211	1.217
.5733-	1.429	1.335	1.258	1.220	1.211	1.217
.5800	1.429	1.335	1.258	1.220	1.211	1.217
.5900-	1.429	1.335	1.258	1.220	1.211	1.217
.6000	1.429	1.335	1.258	1.220	1.211	1.217
.6133-	1.429	1.335	1.258	1.220	1.211	1.217
.6200	1.429	1.335	1.258	1.220	1.211	1.217
.6300-	1.429	1.335	1.258	1.220	1.211	1.217
.6400	1.429	1.335	1.258	1.220	1.211	1.217
.6500-	1.429	1.335	1.258	1.220	1.211	1.217
.6600	1.429	1.335	1.258	1.220	1.211	1.217
.6733-	1.429	1.335	1.258	1.220	1.211	1.217
.6800	1.429	1.335	1.258	1.220	1.211	1.217
.6900-	1.429	1.335	1.258	1.220	1.211	1.217
.7000	1.429	1.335	1.258	1.220	1.211	1.217
.7133-	1.429	1.335	1.258	1.220	1.211	1.217
.7200	1.429	1.335	1.258	1.220	1.211	1.217
.7300-	1.429	1.335	1.258	1.220	1.211	1.217
.7400	1.429	1.335	1.258	1.220	1.211	1.217
.7500-	1.429	1.335	1.258	1.220	1.211	1.217
.7600	1.429	1.335	1.258	1.220	1.211	1.217
.7733-	1.429	1.335	1.258	1.220	1.211	1.217
.7800	1.429	1.335	1.258	1.220	1.211	1.217
.7900-	1.429	1.335	1.258	1.220	1.211	1.217
.8000	1.429	1.335	1.258	1.220	1.211	1.217
.8133-	1.429	1.335	1.258	1.220	1.211	1.217
.8200	1.429	1.335	1.258	1.220	1.211	1.217
.8300-	1.429	1.335	1.258	1.220	1.211	1.217
.8400	1.429	1.335	1.258	1.220	1.211	1.217
.8500-	1.429	1.335	1.258	1.220	1.211	1.217
.8600	1.429	1.335	1.258	1.220	1.211	1.217
.8733-	1.429	1.335	1.258	1.220	1.211	1.217
.8800	1.429	1.335	1.258	1.220	1.211	1.217
.8900-	1.429	1.335	1.258	1.220	1.211	1.217
.9000	1.429	1.335	1.258	1.220	1.211	1.217
.9133-	1.429	1.335	1.258	1.220	1.211	1.217
.9200	1.429	1.335	1.258	1.220	1.211	1.217
.9300-	1.429	1.335	1.258	1.220	1.211	1.217
.9400	1.429	1.335	1.258	1.220	1.211	1.217
.9500-	1.429	1.335	1.258	1.220	1.211	1.217
.9600	1.429	1.335	1.258	1.220	1.211	1.217
.9733-	1.429	1.335	1.258	1.220	1.211	1.217
.9800	1.429	1.335	1.258	1.220	1.211	1.217
.9900-	1.429	1.335	1.258	1.220	1.211	1.217
1.0000	1.429	1.335	1.258	1.220	1.211	1.217

M=0.80

X/C (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	.507	.954	1.472	1.859	2.085	1.646
.0100-	1.316	.732	1.452	1.460	1.441	1.375
.0200	1.234	2.294	2.963	2.118	1.962	1.607
.0400-	1.350	.933	1.713	1.591	1.509	1.376
.0600	1.254	1.689	2.783	2.118	1.962	1.607
.0800-	1.345	1.038	1.824	1.705	1.606	1.447
.1000	1.287	1.620	2.606	2.118	1.960	1.618
.1200-	1.500	1.124	1.938	1.822	1.727	1.542
.1400	1.314	1.530	1.730	2.042	1.932	1.603
.1533-	1.403	1.215	1.049	1.950	1.860	1.658
.1600	1.315	1.475	1.525	1.987	1.916	1.591
.1733-	1.451	1.291	1.142	1.059	1.975	1.759
.1800	1.291	1.409	1.476	1.933	1.896	1.586
.1937-	1.488	1.344	1.211	1.150	1.077	1.852
.2000	1.844	1.317	1.324	1.036	1.078	1.574
.2133-	1.507	1.389	1.282	1.231	1.176	1.176
.2200	1.180	1.244	1.307	1.859	1.857	1.566
.2300-	1.519	1.414	1.313	1.282	1.244	1.007
.2400	1.104	1.157	1.226	1.824	1.841	1.561
.2567-	1.528	1.428	1.337	1.319	1.292	1.054
.2600	1.528	1.428	1.337	1.319	1.292	1.054
.2700-	1.528	1.428	1.337	1.319	1.292	1.054
.2800	1.528	1.428	1.337	1.319	1.292	1.054
.2933-	1.528	1.428	1.337	1.319	1.292	1.054
.3000	1.528	1.428	1.337	1.319	1.292	1.054
.3133-	1.528	1.428	1.337	1.319	1.292	1.054
.3200	1.528	1.428	1.337	1.319	1.292	1.054
.3300-	1.528	1.428	1.337	1.319	1.292	1.054
.3400	1.528	1.428	1.337	1.319	1.292	1.054
.3500-	1.528	1.428	1.337	1.319	1.292	1.054
.3600	1.528	1.428	1.337	1.319	1.292	1.054
.3733-	1.528	1.428	1.337	1.319	1.292	1.054
.3800	1.528	1.428	1.337	1.319	1.292	1.054
.3900-	1.528	1.428	1.337	1.319	1.292	1.054
.4000	1.528	1.428	1.337	1.319	1.292	1.054
.4133-	1.528	1.428	1.337	1.319	1.292	1.054
.4200	1.528	1.428	1.337	1.319	1.292	1.054
.4300-	1.528	1.428	1.337	1.319	1.292	1.054
.4400	1.528	1.428	1.337	1.319	1.292	1.054
.4500-	1.528	1.428	1.337	1.319	1.292	1.054
.4600	1.528	1.428	1.337	1.319	1.292	1.054
.4733-	1.528	1.428	1.337	1.319	1.292	1.054
.4800	1.528	1.428	1.337	1.319	1.292	1.054
.4900-	1.528	1.428	1.337	1.319	1.292	1.054
.5000	1.528	1.428	1.337	1.319	1.292	1.054
.5133-	1.528	1.428	1.337	1.319	1.292	1.054
.5200	1.528	1.428	1.337	1.319	1.292	1.054
.5300-	1.528	1.428	1.337	1.319	1.292	1.054
.5400	1.528	1.428	1.337	1.319	1.292	1.054
.5500-	1.528	1.428	1.337	1.319	1.292	1.054
.5600	1.528	1.428	1.337	1.319	1.292	1.054
.5733-	1.528	1.428	1.337	1.319	1.292	1.054
.5800	1.528	1.428	1.337	1.319	1.292	1.054
.5900-	1.528	1.428	1.337	1.319	1.292	1.054
.6000	1.528	1.428	1.337	1.319	1.292	1.054
.6133-	1.528	1.428	1.337	1.319	1.292	1.054
.6200	1.528	1.428	1.337	1.319	1.292	1.054
.6300-	1.528	1.428	1.337	1.319	1.292	1.054
.6400	1.528	1.428	1.337	1.319	1.292	1.054
.6500-	1.528	1.428	1.337	1.319	1.292	1.054
.6600	1.528	1.428	1.337	1.319	1.292	1.054
.6733-	1.528	1.428	1.337	1.319	1.292	1.054
.6800	1.528	1.428	1.337	1.319	1.292	1.054
.6900-	1.528	1.428	1.337	1.319	1.292	1.054

TABLE 26- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN

($\delta = -10^\circ$; $\delta_f = -20^\circ$)

M = 0.60

M = 0.80

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.455	1.021	1.868	2.132	2.015	1.891
.0100	1.366	.684	1.480	2.408	1.403	1.428
.0200	1.058	1.707	2.433	2.084	1.907	1.836
.0300	1.329	.894	.657	.516	.449	.402
.0400	1.108	1.499	1.877	2.063	1.901	1.856
.0500	1.304	.994	.774	.637	.548	.484
.1000	1.136	1.441	1.788	2.054	1.888	1.851
.1500	1.308	1.050	.891	.763	.667	.591
.2000	1.355	1.157	.997	.890	.810	.737
.2500	1.145	1.337	1.545	1.973	1.829	1.833
.3000	1.362	1.222	1.098	.951	.828	.753
.3500	1.148	1.264	1.431	1.937	1.815	1.816
.4000	1.390	1.262	1.154	1.075	1.019	.977
.4500	1.122	1.197	1.338	1.897	1.800	1.800
.5000	.992	1.050	1.188	1.765	1.770	1.769
.5500	1.047	1.189	1.250	1.830	1.785	1.788
.6000	1.439	1.332	1.247	1.202	1.174	1.165
.6500	1.426	1.334	1.161	1.279	1.230	1.241
.7000	1.430	1.341	1.264	1.219	1.209	1.217
.7500	1.487	1.406	1.311	1.280	1.289	1.286
.8000	1.451	1.432	1.341	1.296	1.300	1.300
.8500	1.451	1.432	1.341	1.296	1.300	1.300
.9000	1.451	1.432	1.341	1.296	1.300	1.300
.9500	1.451	1.432	1.341	1.296	1.300	1.300
1.0000	1.451	1.432	1.341	1.296	1.300	1.300

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.501	.947	1.473	1.850	2.124	1.943
.0100	1.320	.733	.529	.460	.438	.445
.0200	1.326	2.256	2.921	2.115	1.958	1.901
.0300	1.355	.937	.715	.586	.508	.441
.0400	1.233	1.685	2.776	2.110	1.957	1.909
.0500	1.353	1.042	.824	.703	.605	.524
.1000	1.269	1.616	2.598	2.117	1.957	1.906
.1500	1.373	1.125	.942	.821	.726	.637
.2000	1.300	1.220	1.688	2.026	1.935	1.884
.2500	1.403	1.210	1.049	.949	.855	.769
.3000	1.229	1.463	1.566	1.977	1.918	1.875
.3500	1.445	1.286	1.449	1.055	.968	.888
.4000	1.373	1.339	1.488	1.922	1.892	1.866
.4500	1.483	1.343	1.223	1.144	1.072	.999
.5000	1.284	1.715	1.530	1.655	1.678	1.661
.5500	1.482	1.338	1.286	1.144	1.072	.999
.6000	1.156	1.225	1.301	1.856	1.861	1.854
.6500	1.509	1.411	1.329	1.278	1.237	1.232
.7000	1.483	1.401	1.187	1.181	1.177	1.177
.7500	1.510	1.430	1.341	1.309	1.277	1.239
.8000	1.041	1.094	1.187	1.615	1.633	1.641
.8500	1.483	1.401	1.187	1.181	1.177	1.177
.9000	1.510	1.430	1.341	1.309	1.277	1.239
.9500	1.483	1.401	1.187	1.181	1.177	1.177
1.0000	1.483	1.401	1.187	1.181	1.177	1.177

M = 0.90

M = 0.93

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.545	.864	1.233	1.552	1.825	1.995
.0100	1.337	.761	2.580	2.159	2.013	1.930
.0200	1.351	2.261	2.955	2.163	2.013	1.930
.0300	1.351	1.050	.891	.741	.661	.591
.0400	1.396	1.853	2.404	2.161	2.013	1.930
.0500	1.396	1.154	1.000	.856	.741	.661
.1000	1.316	1.672	2.321	2.126	2.013	1.930
.1500	1.412	1.231	1.109	.980	.856	.741
.2000	1.453	1.660	2.207	2.081	1.930	1.856
.2500	1.423	1.302	1.205	1.081	.980	.856
.3000	1.423	1.628	1.952	2.010	1.930	1.856
.3500	1.437	1.363	1.284	1.171	1.081	.980
.4000	1.477	1.373	1.215	1.247	1.171	1.081
.4500	1.558	1.398	1.176	1.245	1.171	1.081
.5000	1.245	1.235	1.443	1.892	1.825	1.771
.5500	1.446	1.403	1.376	1.247	1.171	1.081
.6000	1.405	1.424	1.390	1.342	1.247	1.171
.6500	1.499	1.400	1.342	1.828	1.825	1.771
.7000	1.470	1.383	1.367	1.322	1.247	1.171
.7500	1.022	1.044	1.306	1.805	1.825	1.771
.8000	1.553	1.456	1.445	1.368	1.247	1.171
.8500	1.484	1.456	1.445	1.368	1.247	1.171
.9000	.958	1.005	1.267	1.779	1.825	1.771
.9500	1.578	1.499	1.501	1.450	1.368	1.247
1.0000	1.578	1.499	1.501	1.450	1.368	1.247

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.571	.862	1.167	1.467	1.718	1.888
.0100	1.328	.789	2.618	2.208	2.058	1.971
.0200	1.328	2.208	2.983	2.212	2.058	1.971
.0300	1.378	1.004	.848	.708	.628	.558
.0400	1.394	1.830	2.432	2.212	2.058	1.971
.0500	1.394	1.130	1.028	.888	.768	.688
.1000	1.425	1.990	2.348	2.212	2.058	1.971
.1500	1.423	1.194	1.021	.901	.781	.701
.2000	1.495	1.731	2.280	2.212	2.058	1.971
.2500	1.446	1.286	1.133	.988	.868	.788
.3000	1.551	1.765	2.211	2.212	2.058	1.971
.3500	1.446	1.372	1.234	1.113	1.021	.941
.4000	1.541	1.796	2.095	2.212	2.058	1.971
.4500	1.586	1.440	1.319	1.199	1.113	1.033
.5000	1.448	1.715	1.992	2.212	2.058	1.971
.5500	1.593	1.446	1.414	1.368	1.288	1.208
.6000	1.299	1.403	1.902	2.212	2.058	1.971
.6500	1.593	1.446	1.414	1.368	1.288	1.208
.7000	1.566	1.489	1.459	1.528	1.448	1.368
.7500	1.130	1.184	1.528	2.212	2.058	1.971
.8000	1.642	1.529	1.447	1.470	1.390	1.310
.8500	1.055	1.146	1.488	2.212	2.058	1.971
.9000	1.667	1.551	1.478	1.509	1.429	1.349
.9500	1.633	1.545	1.509	1.451	1.371	1.291
1.0000	1.633	1.545	1.509	1.451	1.371	1.291

Lower surface orifice is denoted by -.

TABLE 27- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

($\delta_1 = -20^\circ$, $\delta_2 = 0^\circ$)

M=0.60

M=0.80

X/C (a)	s					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.4600	.9881	1.6655	2.0733	2.0711	1.8499
.0100	1.4406	.9712	1.6405	2.0404	2.0303	1.8266
.0200	1.0471	1.6711	2.0449	2.0445	1.8988	1.8599
.0400	1.1355	1.9166	2.6774	2.5229	1.4554	1.9911
.0600	1.0767	1.4031	1.7990	2.6445	1.5577	1.4833
.0800	1.1008	1.4011	1.8894	2.0166	1.8777	1.8350
.1000	1.1336	1.1331	1.6668	1.9587	1.682	1.604
.1500	1.3288	1.1280	1.5009	1.8584	1.8433	1.8033
.2000	1.3288	1.2000	1.1018	1.894	1.815	1.739
.2500	1.1820	1.2288	1.5000	1.8993	1.8221	1.7997
.3000	1.1359	1.279	1.115	1.999	1.838	1.868
.3500	1.100	1.2004	1.1352	1.8228	1.799	1.783
.4000	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
.4500	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
.5000	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
.5500	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
.6000	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
.6500	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
.7000	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
.7500	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
.8000	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
.8500	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
.9000	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
.9500	1.1408	1.1323	1.1991	1.0990	1.041	1.9922
1.0000	1.1408	1.1323	1.1991	1.0990	1.041	1.9922

X/C (a)	s					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.503	.951	1.471	1.835	2.078	1.957
.0100	1.334	.734	.532	.462	.441	1.451
.0200	1.222	2.273	2.966	2.152	1.971	1.928
.0400	1.366	.941	.720	2.592	.508	1.746
.0600	1.238	1.668	2.804	2.120	2.001	1.942
.0800	1.355	1.046	.837	.706	.607	1.531
.1000	1.281	1.601	2.653	2.088	1.944	1.917
.1500	1.296	1.497	1.699	2.059	1.911	1.896
.2000	1.398	1.222	1.05	.954	.859	1.756
.2500	1.287	1.434	1.480	1.975	1.896	1.868
.3000	1.445	1.303	1.161	1.064	.979	.911
.3500	1.242	1.347	1.431	1.910	1.877	1.875
.4000	1.496	1.366	1.242	1.150	1.089	1.026
.4500	1.175	1.242	1.355	1.661	1.659	1.668
.5000	1.521	1.417	1.316	1.251	1.196	1.148
.5500	1.084	1.135	1.320	1.821	1.842	1.851
.6000	1.342	1.070	1.311	1.311	1.267	1.228
.6500	1.990	1.034	1.111	1.787	1.828	1.846
.7000	1.549	1.471	1.389	1.349	1.317	1.266
.7500	1.337	1.610	1.302	1.431	1.407	1.384
.8000	1.549	1.477	1.406	1.374	1.349	1.324
.8500	1.857	.934	1.049	1.752	1.813	1.838
.9000	1.604	1.541	1.482	1.435	1.407	1.387
.9500	1.777	1.553	1.482	1.452	1.428	1.404
.7400	.797	.889	1.014	1.735	1.797	1.824
.7500	1.649	1.807	1.958	1.493	1.473	1.457
.7600	1.774	1.749	1.698	1.676	1.674	1.665
.8100	1.021	2.031	2.138	2.369	2.686	2.708
.8400	1.774	1.749	1.698	1.676	1.674	1.665
.8500	1.930	1.938	1.939	2.015	2.244	2.480
.8533	.765	.842	.970	1.637	1.752	1.794
.8533	1.813	1.709	1.634	1.745	1.945	2.248
.8533	1.813	1.709	1.634	1.745	1.945	2.248
.9033	1.748	1.578	1.455	1.604	1.732	1.965
.9133	1.869	1.897	1.007	1.574	1.732	1.784
.9233	1.592	1.940	1.029	1.541	1.711	1.775
.9333	1.618	1.450	1.353	1.550	1.705	1.786
.9333	1.939	1.926	1.051	1.506	1.702	1.768
.9333	1.836	1.114	1.498	1.488	1.687	1.757
.9333	1.033	1.038	1.032	1.488	1.687	1.757
1.0033	1.532	1.371	1.339	1.480	1.676	1.748
1.0133	1.462	1.360	1.302	1.473	1.674	1.748
1.0233	1.040	1.074	1.100	1.471	1.676	1.781
1.0333	1.439	1.321	1.265	1.463	1.674	1.784
1.0433	1.137	1.353	1.243	1.447	1.685	1.781
1.0533	1.279	1.280	1.224	1.449	1.669	1.756
1.0583	1.279	1.280	1.224	1.449	1.669	1.756

M=0.90

M=0.93

X/C (a)	s					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.549	.894	1.231	1.660	2.073	2.071
.0100	1.277	.785	.597	.461	.441	1.451
.0200	1.350	2.277	2.610	2.152	1.971	1.928
.0400	1.355	2.132	2.473	2.120	2.001	1.942
.0600	1.367	1.089	.993	.706	.607	1.531
.0800	1.407	1.885	2.361	2.088	1.944	1.917
.1000	1.494	1.780	1.006	1.064	.979	.911
.1500	1.440	1.716	2.375	2.059	1.911	1.896
.2000	1.4430	1.271	1.113	1.150	1.089	1.026
.2500	1.436	1.710	2.051	1.193	1.166	1.148
.3000	1.491	1.358	1.214	1.147	1.111	1.075
.3500	1.378	1.582	1.951	1.147	1.111	1.075
.4000	1.565	1.418	1.289	1.147	1.111	1.075
.4500	1.565	1.418	1.289	1.147	1.111	1.075
.5000	1.565	1.418	1.289	1.147	1.111	1.075
.5500	1.565	1.418	1.289	1.147	1.111	1.075
.6000	1.565	1.418	1.289	1.147	1.111	1.075
.6500	1.565	1.418	1.289	1.147	1.111	1.075
.7000	1.565	1.418	1.289	1.147	1.111	1.075
.7500	1.565	1.418	1.289	1.147	1.111	1.075
.8000	1.565	1.418	1.289	1.147	1.111	1.075
.8500	1.565	1.418	1.289	1.147	1.111	1.075
.9000	1.565	1.418	1.289	1.147	1.111	1.075
.9500	1.565	1.418	1.289	1.147	1.111	1.075
1.0000	1.565	1.418	1.289	1.147	1.111	1.075

X/C (a)	s					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.567	.869	1.185	1.660	2.073	2.071
.0100	1.285	.809	.624	.461	.441	1.451
.0200	1.388	2.242	2.536	2.152	1.971	1.928
.0400	1.377	1.007	.815	.706	.607	1.531
.0600	1.394	2.109	2.411	2.088	1.944	1.917
.0800	1.396	1.104	.928	1.064	.979	.911
.1000	1.429	1.976	2.307	2.059	1.911	1.896
.1500	1.431	1.833	2.037	1.150	1.089	1.026
.2000	1.491	1.734	2.233	1.193	1.166	1.148
.2500	1.471	1.280	1.147	1.147	1.111	1.075
.3000	1.504	1.761	2.147	1.147	1.111	1.075
.3500	1.538	1.372	1.250	1.147	1.111	1.075
.4000	1.438	1.787	1.950	1.147	1.111	1.075
.4500	1.608	1.443	1.352	1.147	1.111	1.075
.5000	1.623	1.470	1.375	1.147	1.111	1.075
.5500	1.656	1.475	1.388	1.147	1.111	1.075
.6000	1.676	1.220	1.722	1.147	1.111	1.075
.6500	1.682	1.469	1.413	1.147	1.111	1.075
.7000	1.060	1.139	1.515	1.147	1.111	1.075
.7500	1.651	1.475	1.438	1.147	1.111	1.075
.8000	1.994	1.114	1.498	1.147	1.111	1.075
.8500	1.603	1.462	1.417	1.147	1.111	1.075
.9000	.916	1.091	1.504	1.147	1.111	1.075
.9500	1.638	1.507	1.467	1.147	1.111	1.075
.7300	1.618	1.513	1.464	1.147	1.111	1.075
.7400	.859	1.077	1.504	1.147	1.111	1.075
.7500	1.621	1.555	1.528	1.147	1.111	1.075
.7600	1.819	1.075	1.517	1.147	1.111	1.075
.7800	1.734	1.671	1.644	1.147	1.111	1.075
.8100	2.464	2.429	2.449	1.147	1.111	1.075
.8200	2.807	1.059	1.317	1.147	1.111	1.075
.8300	2.344	2.053	2.320	1.147	1.111	1.075
.8333	.818	1.005	1.273	1.147	1.111	1.075
.8333	2.899	1.917	2.013	1.147	1.111	1.075
.8333	1.966	1.966	1.966	1.147	1.111	1.075
.9033	1.966	1.868	1.864	1.147	1.111	1.075
.9133	1.927	.958	.952	1.147	1.111	1.075
.9233	1.966	1.034	1.039	1.147	1.111	1.075
.9333	.999	.982	.961	1.147	1.111	1.075
.9633	1.852	1.021	1.004	1.147	1.111	1.075
.9733	1.053	1.029	1.030	1.147	1.111	1.075
.9833	1.117	1.085	1.085	1.147	1.111	1.075
.9933	1.117	1.085	1.093	1.147	1.111	1.075
1.0033	1.813	1.770	1.784	1.147	1.111	1.075
1.0133	1.813	1.764	1.788	1.147	1.111	1.075
1.0233	1.050	1.142	1.138	1.147	1.111	1.075
1.0333	1.797	1.726	1.753	1.147	1.111	1.075
1.0433	1.785	1.271	1.268	1.147	1.111	1.075
1.0533	1.733	1.662	1.679	1.147	1.111	1.075
1.0583	1.573	1.531	1.521	1.147	1.111	1.075

a Lower surface orifice is denoted by -.

TABLE 28 - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
 $(\beta = -20^\circ; \delta = 10^\circ)$

M = 0.60

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.4660	1.0003	1.9011	2.1110	2.0883	1.8877
0.0100	1.3384	0.6995	1.4885	2.1400	2.4021	1.4233
0.0200	1.0533	1.6883	2.4666	2.0766	1.9255	1.8466
0.0400	1.1053	1.9000	1.6668	0.5222	1.4466	1.4022
0.0600	1.1319	1.4775	1.8444	2.0477	1.9188	1.8477
0.0800	1.1319	1.0004	1.7791	0.6399	1.5500	1.4822
0.1000	1.1288	1.4330	1.7666	2.0284	1.9077	1.8422
0.1500	1.3111	1.0800	1.8998	0.7655	0.6788	1.6044
0.2000	1.1557	1.3338	1.6009	1.9711	1.8633	1.8333
0.2500	1.1328	1.1688	1.4010	1.0991	1.8338	1.7500
0.3000	1.1407	1.2293	1.5224	1.9344	1.8338	1.8266
0.3500	1.1365	1.2836	1.6109	1.0033	1.9288	1.8711
0.4000	1.1288	1.3366	1.4011	1.0775	1.9288	1.8333
0.4500	1.1407	1.4011	1.5111	1.0322	1.9288	1.8333
0.5000	1.1092	1.3629	1.2998	0.9233	1.8000	1.7966
0.5500	1.14338	1.3333	1.2357	1.1733	1.1337	1.1211
0.55867	1.10220	1.0766	1.22866	1.7744	1.7855	1.7833
0.5667	1.1464	1.3381	1.2993	1.1868	1.1788	1.1777
0.6000	1.1441	1.3933	1.1577	1.6911	1.7677	1.7666
0.6500	1.1441	1.3877	1.2284	1.2188	1.2129	1.2355
0.6700	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.6800	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.6900	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.7000	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.7100	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.7200	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.7300	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.7400	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.7500	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.7600	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.7700	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.7800	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.7900	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.8000	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.8100	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.8200	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.8300	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.8400	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.8500	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.8600	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.8700	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.8800	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.8900	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.9000	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.9100	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.9200	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.9300	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.9400	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.9500	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.9600	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.9700	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.9800	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
0.9900	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
1.0000	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
1.0100	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
1.0200	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
1.0300	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
1.0400	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
1.0500	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522
1.0583	1.1441	1.3877	1.1160	1.1300	1.1441	1.1522

M = 0.80

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.5000	0.9660	1.4778	1.8554	2.1333	1.9337
0.0100	1.3334	0.7338	1.5331	2.4459	1.4335	1.4433
0.0200	1.2804	2.1933	2.4633	2.0759	1.9333	1.9077
0.0400	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.0600	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.0800	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.1000	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.1500	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.2000	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.2500	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.3000	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.3500	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.4000	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.4500	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.5000	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.5500	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.55867	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.5667	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.6000	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.6500	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.6700	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.6800	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.6900	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.7000	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.7100	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.7200	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.7300	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.7400	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.7500	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.7600	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.7700	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.7800	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.7900	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.8000	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.8100	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.8200	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.8300	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.8400	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.8500	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.8600	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.8700	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.8800	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.8900	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.9000	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.9100	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.9200	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.9300	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.9400	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.9500	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.9600	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.9700	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.9800	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
0.9900	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
1.0000	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
1.0100	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
1.0200	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
1.0300	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
1.0400	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
1.0500	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337
1.0583	1.3334	0.9660	1.4778	1.8554	2.1333	1.9337

M = 0.90

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.5511	0.9110	1.4235	1.8554	2.1333	1.9337
0.0100	1.3343	0.7777	1.4885	2.1400	2.4021	1.4233
0.0200	1.0533	2.0995	2.4666	2.0766	1.9255	1.8466
0.0400	1.1053	2.1622	2.0477	1.9188	1.8477	1.8477
0.0600	1.1319	1.0811	1.7791	0.6399	1.5500	1.4822
0.0800	1.1319	1.0811	1.7791	0.6399	1.5500	1.4822
0.1000	1.1319	1.0811	1.7791	0.6399	1.5500	1.4822
0.1500	1.3111	1.0800	1.8998	0.7655	0.6788	1.6044
0.2000	1.1557	1.3338	1.6009	1.9711	1.8633	1.8333
0.2500	1.1328	1.1688	1.4010	1.0991	1.8338	1.7500
0.3000	1.1407	1.2293	1.5224	1.9344	1.8338	1.8266
0.3500	1.1365	1.2836	1.6109	1.0033	1.9288	1.8711
0.4000	1.1288	1.3366	1.4011	1.0775	1.9288	1.8333
0.4500	1.1407	1.4011	1.5111	1.0322	1.9288	1.8333
0.5000	1.1092	1.3629	1.2998	0.9233	1.8000	1.7966
0.5500	1.14338	1.3333	1.2357	1.1733	1.1337	1.1211
0.55867	1.10220	1.0766	1.22866	1.7744	1.7855	1.7833
0.5667	1.1464	1.3381	1.2993	1.1868	1.1788	1.1777
0.6000	1.1441	1.3933	1.1577	1.6911	1.7677	1.7666
0.6500	1.1441	1.3877	1.2284	1.2188	1.2129	1.2355
0.6700	1.1441	1.3877	1.1160	1.1300	1.14	

TABLE 29.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
(δ₁ = -20°, δ₂ = 20°)

Table for M=0.60 showing pressure coefficients for various angles alpha (0 to 20 degrees) across different X/C ratios (0.0000 to 1.0583).

Table for M=0.80 showing pressure coefficients for various angles alpha (0 to 20 degrees) across different X/C ratios (0.0000 to 1.0583).

Table for M=0.90 showing pressure coefficients for various angles alpha (0 to 20 degrees) across different X/C ratios (0.0000 to 1.0583).

Table for M=0.93 showing pressure coefficients for various angles alpha (0 to 20 degrees) across different X/C ratios (0.0000 to 1.0583).

Lower surface orifice is denoted by -.

TABLE 30. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.
($\delta_f = -20^\circ$; $\delta_s = -10^\circ$)

M = 0.60

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.470	.904	1.813	2.043	2.149	1.874
0.0100	1.459	.732	1.499	1.408	1.403	1.427
0.0200	1.015	1.636	2.491	2.034	1.905	1.849
0.0400	1.385	.933	1.686	1.520	1.455	1.410
0.0600	1.072	1.427	1.796	2.007	1.893	1.844
0.0800	1.349	1.027	1.803	1.649	1.571	1.535
0.1000	1.106	1.382	1.723	1.984	1.884	1.845
0.1500	1.353	1.112	1.916	1.775	1.687	1.613
0.2000	1.106	1.382	1.723	1.984	1.884	1.845
0.2533	1.126	1.252	1.479	1.880	1.825	1.824
0.3033	1.420	1.271	1.131	1.018	1.046	1.091
0.3533	1.020	1.190	1.347	1.537	1.508	1.513
0.4167	1.456	1.329	1.214	1.115	1.061	1.017
0.4567	1.403	1.106	1.233	1.793	1.793	1.800
0.5067	1.498	1.398	1.233	1.793	1.793	1.800
0.5567	1.966	1.019	1.159	1.744	1.777	1.788
0.6300	1.553	1.440	1.346	1.273	1.251	1.245
0.6500	1.867	1.221	1.227	1.577	1.750	1.766
0.6700	1.556	1.470	1.389	1.315	1.311	1.310
0.6800	1.848	1.076	1.069	1.655	1.753	1.755
0.6900	1.542	1.451	1.340	1.212	1.219	1.224
0.7100	1.771	1.610	1.441	1.418	1.429	1.450
0.7200	1.647	1.576	1.486	1.418	1.429	1.450
0.7400	1.665	1.739	1.506	1.439	1.453	1.478
0.7500	1.723	1.649	1.566	1.495	1.523	1.561
0.7700	1.618	1.747	1.973	1.487	1.693	1.700
0.7800	2.781	1.871	1.979	1.234	1.848	2.003
0.8100	2.286	2.231	1.129	2.041	2.218	2.472
0.8200	1.593	1.728	1.950	1.432	1.682	1.698
0.8300	1.833	1.610	1.265	1.374	1.668	1.678
0.8533	1.650	1.721	1.939	1.374	1.667	1.698
0.8733	1.611	1.581	1.506	1.461	1.649	1.776
0.8833	1.939	1.739	1.233	1.326	1.659	1.693
0.9033	1.412	1.476	1.351	1.308	1.599	1.724
0.9133	1.306	1.755	1.932	1.285	1.649	1.687
0.9333	1.421	1.407	1.351	1.308	1.591	1.725
0.9433	1.358	1.354	1.300	1.259	1.634	1.783
0.9633	1.759	1.785	1.930	1.162	1.612	1.665
0.9733	1.933	1.314	1.265	1.133	1.594	1.656
0.9933	1.736	1.775	1.919	1.133	1.594	1.656
1.0033	1.288	1.283	1.247	1.222	1.976	2.285
1.0133	1.258	1.245	1.198	1.164	1.758	1.953
1.0233	1.809	1.289	1.448	1.218	1.605	1.867
1.0333	1.219	1.191	1.155	1.129	1.660	1.812
1.0433	1.950	1.946	1.010	1.103	1.600	1.680
1.0533	1.130	1.167	1.131	1.144	1.717	1.717
1.0583	1.134	1.127	1.099	1.102	1.591	1.678

M = 0.80

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	.494	.922	1.449	1.800	2.109	
0.0100	1.375	2.135	2.877	2.755	2.461	1.439
0.0200	1.386	.955	.723	2.568	2.568	1.510
0.0400	1.211	1.641	2.801	2.092	1.940	
0.0600	1.379	1.043	1.839	1.992	1.917	
0.0800	1.238	1.567	2.656	2.083	1.643	
0.1000	1.389	1.154	2.952	2.825	1.731	
0.1500	1.286	1.476	1.579	1.992	1.864	
0.2000	1.238	1.567	2.656	2.083	1.643	
0.2533	1.255	1.410	1.404	1.936	1.905	
0.3033	1.478	1.332	1.165	1.063	1.098	
0.3533	1.020	1.327	1.405	1.878	1.883	
0.4167	1.519	1.391	1.249	1.162	1.098	
0.4567	1.156	1.220	1.295	1.835	1.868	
0.5067	1.441	1.441	1.187	1.251	1.201	
0.5567	1.055	1.110	1.187	1.794	1.852	
0.6300	1.557	1.467	1.372	1.315	1.272	
0.6500	1.938	1.401	1.039	1.759	1.831	
0.6700	1.558	1.481	1.397	1.349	1.315	
0.6800	1.913	1.934	1.066	1.750	1.827	
0.6900	1.538	1.454	1.372	1.328	1.305	
0.7100	1.826	1.896	1.066	1.727	1.815	
0.7200	1.632	1.573	1.487	1.439	1.430	
0.7400	1.639	1.599	1.497	1.453	1.441	
0.7500	1.723	1.610	1.534	1.491	1.470	
0.7700	1.656	1.837	1.979	1.655	1.786	
0.7800	1.837	1.788	1.711	1.655	1.659	
0.8100	2.205	2.156	2.250	2.511	2.694	
0.8200	2.674	2.836	2.964	2.616	2.767	
0.8300	1.833	1.833	2.052	1.833	1.833	
0.8533	1.703	1.806	1.992	1.833	1.833	
0.8733	1.956	1.886	1.733	1.830	1.999	
0.8833	1.833	1.833	1.962	1.833	1.748	
0.9033	1.891	1.834	1.833	1.833	1.928	
0.9133	1.788	1.835	1.973	1.540	1.739	
0.9333	1.896	1.794	1.545	1.630	1.659	
0.9433	1.833	1.833	1.932	1.630	1.659	
0.9633	1.752	1.653	1.490	1.575	1.817	
0.9733	1.895	1.871	1.991	1.463	1.697	
0.9833	1.833	1.833	1.991	1.463	1.697	
0.9933	1.804	1.862	1.988	1.437	1.673	
1.0033	1.657	1.534	1.397	1.532	1.896	
1.0133	1.685	1.556	1.374	1.500	1.783	
1.0233	1.977	1.608	1.085	1.500	1.783	
1.0333	1.553	1.462	1.332	1.476	1.729	
1.0433	1.059	1.078	1.133	1.442	1.705	
1.0533	1.144	1.144	1.300	1.456	1.733	
1.0583	1.350	1.327	1.247	1.431	1.688	

M = 0.90

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	5.41	.878	1.214	1.584		
0.0100	1.306	2.795	2.603	2.509		
0.0200	1.380	.991	2.787	2.553		
0.0400	1.387	1.089	2.467	2.350		
0.0600	1.387	1.709	2.339	2.305		
0.0800	1.410	1.174	1.007	1.882		
0.1000	1.301	1.709	2.267	2.321		
0.1500	1.453	1.266	1.121	1.009		
0.2000	1.396	1.684	2.062	2.152		
0.2533	1.517	1.353	1.219	1.116		
0.3033	1.339	1.481	1.943	2.071		
0.3533	1.584	1.415	1.303	1.209		
0.4167	1.282	1.273	1.194	1.294		
0.4567	1.125	1.143	1.396	1.937		
0.5067	1.601	1.466	1.398	1.336		
0.5567	1.011	1.037	1.345	1.879		
0.5867	1.125	1.143	1.396	1.937		
0.6300	1.952	1.999	1.324	1.667		
0.6500	1.498	1.483	1.367	1.329		
0.6700	1.866	1.967	1.306	1.635		
0.6800	1.580	1.528	1.483	1.444		
0.6900	1.587	1.534	1.490	1.452		
0.7100	1.811	1.951	1.282	1.176		
0.7200	1.610	1.562	1.517	1.478		
0.7400	1.770	1.840	1.245	1.514		
0.7500	1.718	1.889	1.245	1.514		
0.7700	2.510	2.471	2.492	2.491		
0.7800	2.750	2.934	1.152	1.726		
0.8100	2.370	2.358	2.370	2.365		
0.8200	2.759	2.901	1.012	1.691		
0.8300	2.100	1.920	1.881	2.254		
0.8533	1.795	1.885	1.915	1.660		
0.8733	1.979	1.863	1.791	1.963		
0.8833	1.837	1.892	1.872	1.629		
0.9033	1.871	1.799	1.757	1.622		
0.9133	1.871	1.906	1.688	1.551		
0.9333	1.862	1.749	1.788	1.851		
0.9433	1.883	1.929	1.905	1.852		
0.9633	1.866	1.930	1.908	1.926		
0.9733	1.785	1.748	1.780	1.802		
0.9833	1.713	1.757	1.761	1.629		
0.9933	1.952	1.007	1.976	1.569		
1.0033	1.742	1.727	1.713	1.760		
1.0133	1.697	1.713	1.713	1.769		
1.0233	1.697	1.690	1.634	1.714		
1.0333	1.515	1.509	1.436	1.598		

M = 0.93

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	.547	.842	1.153			
0.0100	1.280	2.194	2.806	2.617		
0.0200	1.366	.992	2.802	2.370		
0.0400	1.350	2.066	2.350	2.350		
0.0600	1.357	1.051	2.910	2.350		
0.0800	1.387	1.932	2.284	2.284		
0.1000	1.400	1.177	1.014	1.014		
0.1500	1.444	1.716	2.212	2.212		
0.2000	1.444	1.269	1.127	1.127		
0.2533	1.449	1.743	2.128	2.128		
0.3033	1.507	1.357	1.229	1.229		
0.3533	1.393	1.479	1.919	1.919		
0.4167	1.574	1.431	1.310	1.310		
0.4567	1.250	1.350	1.932	1.932		
0.5067	1.134	1.175	1.542	1.542		
0.5567	1.652	1.460	1.397	1.397		
0.6300	1.021	1.095	1.455	1.455		
0.6500	1.621	1.447	1.401	1.401		
0.6700	1.962	1.059	1.448	1.448		
0.6800	1.838	1.399	1.333	1.333		
0.6900	1.877	1.045	1.476	1.476		
0.7100	1.637	1.505	1.465	1.465		
0.7200	1.					

TABLE 31.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

($\delta_f = -20^\circ$; $\delta_r = -20^\circ$)

M=0.60

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.482	.893	1.774	2.042	2.032	1.864
.0100-	1.483	.744	1.493	2.407	1.403	1.422
.0200	1.999	1.627	2.478	1.858	1.478	1.822
.0400-	1.397	.943	1.687	1.529	1.458	1.407
.0600	1.059	1.423	1.820	2.080	1.877	1.822
.0800	1.355	1.036	1.813	1.669	1.555	1.531
.1000	1.097	1.329	1.741	1.998	1.863	1.811
.1500	1.359	1.155	1.923	1.780	1.679	1.616
.2133	1.124	1.299	1.571	1.931	1.824	1.711
.2533	1.378	1.201	1.035	1.911	1.814	1.753
.3033	1.121	1.232	1.455	1.885	1.800	1.805
.3533	1.430	1.271	1.135	1.018	1.922	1.885
.4167	1.087	1.179	1.324	1.820	1.777	1.711
.4567	1.476	1.345	1.222	1.118	1.824	1.775
.5067	1.028	1.091	1.207	1.776	1.755	1.711
.5567	1.538	1.437	1.301	1.212	1.155	1.144
.6067	1.290	1.495	1.361	1.172	1.339	1.248
.6500	1.853	.903	1.053	1.645	1.727	1.747
.6700	1.565	1.487	1.391	1.310	1.282	1.309
.6800	1.819	1.488	1.388	1.288	1.284	1.309
.6900	1.552	1.475	1.388	1.324	1.305	1.334
.7100	1.742	1.787	1.399	1.572	1.470	1.448
.7200-	1.691	1.611	1.429	1.441	1.433	1.448
.7300	1.669	1.627	1.527	1.446	1.438	1.448
.7400	1.669	.753	1.506	1.506	1.433	1.448
.7500-	1.757	1.689	1.599	1.511	1.491	1.477
.7700	1.770	1.689	1.599	1.511	1.491	1.477
.7800	2.077	2.036	1.911	1.822	1.847	1.947
.8100	2.480	2.439	2.255	2.222	2.222	2.222
.8200	2.567	2.439	2.255	2.222	2.222	2.222
.8300-	1.913	1.960	1.826	1.730	1.858	1.060
.8533	1.611	1.698	1.889	1.330	1.663	1.686
.8733	1.691	1.660	1.565	1.488	1.633	1.679
.8833	1.903	1.853	1.463	1.290	1.633	1.679
.9033	1.571	1.555	1.473	1.339	1.616	1.678
.9133	1.677	1.705	1.492	1.324	1.614	1.674
.9333	1.485	1.472	1.411	1.324	1.614	1.674
.9433	1.485	1.472	1.411	1.168	1.600	1.672
.9533	1.485	1.472	1.411	1.168	1.600	1.672
.9633	1.485	1.472	1.411	1.168	1.600	1.672
.9733	1.485	1.472	1.411	1.168	1.600	1.672
.9833	1.485	1.472	1.411	1.168	1.600	1.672
.9933	1.485	1.472	1.411	1.168	1.600	1.672
1.0033	1.345	1.333	1.255	1.190	1.174	1.228
1.0133	1.307	1.288	1.229	1.188	1.174	1.228
1.0233	1.701	1.735	1.894	1.089	1.581	1.679
1.0333	1.299	1.257	1.221	1.150	1.628	1.898
1.0433	1.890	1.890	1.890	1.100	1.648	1.898
1.0533	1.267	1.215	1.158	1.158	1.572	1.764
1.0583	1.172	1.168	1.138	1.113	1.580	1.170

M=0.80

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.504	.929	1.465	1.823	2.069	1.966
.0100-	1.377	.748	1.539	2.097	1.459	1.453
.0200	1.170	2.118	2.597	2.070	1.943	1.915
.0400-	1.139	1.949	1.725	2.590	1.508	1.508
.0600	1.206	1.628	2.749	2.039	1.845	1.845
.0800	1.381	1.049	1.839	2.702	1.994	1.994
.1000	1.238	1.571	2.565	2.084	1.952	1.922
.1500	1.397	1.138	1.953	1.831	1.730	1.656
.2133	1.261	1.463	1.537	1.966	1.878	1.878
.2533	1.423	1.304	1.066	1.953	1.859	1.905
.3033	1.243	1.389	1.524	1.918	1.895	1.901
.3533	1.477	1.304	1.170	1.826	1.878	1.878
.4167	1.199	1.304	1.406	1.859	1.894	1.894
.4567	1.517	1.374	1.253	1.165	1.086	1.035
.5067	1.119	1.193	1.280	1.826	1.849	1.878
.5567	1.534	1.430	1.319	1.259	1.194	1.156
.6067	1.077	1.178	1.178	1.796	1.834	1.869
.6300	1.561	1.461	1.377	1.119	1.126	1.241
.6500	1.933	1.962	1.090	1.751	1.802	1.855
.6700	1.551	1.462	1.319	1.759	1.802	1.855
.6800	1.883	.918	1.058	1.459	1.821	1.857
.6900	1.506	1.436	1.374	1.335	1.301	1.322
.7100	1.703	1.722	1.423	1.623	1.679	1.722
.7200-	1.633	1.557	1.491	1.449	1.410	1.405
.7300	1.638	1.564	1.499	1.459	1.424	1.411
.7400	1.650	1.597	1.531	1.471	1.434	1.421
.7500-	1.681	1.609	1.581	1.461	1.422	1.411
.7700	1.681	1.609	1.581	1.461	1.422	1.411
.7800	1.681	1.609	1.581	1.461	1.422	1.411
.8100	2.161	2.177	2.134	2.134	2.134	2.134
.8200	2.659	2.659	2.659	2.659	2.659	2.659
.8300-	2.321	2.065	1.791	1.577	1.731	1.811
.8533	1.946	1.946	1.946	1.571	1.571	1.571
.8733	2.005	1.937	1.890	1.895	2.015	2.356
.8833	1.701	1.776	1.947	1.547	1.718	1.804
.9033	1.937	1.882	1.946	1.548	1.705	1.796
.9133	1.891	1.825	1.632	1.645	1.876	1.981
.9333	1.731	1.789	1.947	1.474	1.653	1.751
.9433	1.508	1.756	1.941	1.426	1.556	1.655
.9533	1.742	1.709	1.774	1.503	1.784	1.925
.9633	1.657	1.655	1.655	1.402	1.533	1.623
.9733	1.731	1.655	1.402	1.478	1.887	1.996
.9833	1.698	1.631	1.384	1.457	1.773	1.900
.9933	1.759	1.837	1.866	1.456	1.652	1.790
1.0033	1.626	1.612	1.566	1.442	1.765	1.888
1.0133	1.626	1.612	1.566	1.442	1.765	1.888
1.0233	1.626	1.612	1.566	1.442	1.765	1.888
1.0333	1.626	1.612	1.566	1.442	1.765	1.888
1.0433	1.626	1.612	1.566	1.442	1.765	1.888
1.0533	1.588	1.561	1.360	1.437	1.690	1.831
1.0583	1.339	1.338	1.260	1.430	1.660	1.791

M=0.90

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.547	.875	1.215	1.515	1.765	1.965
.0100-	1.314	.790	2.565	2.035	1.405	1.405
.0200	1.366	.982	2.789	2.035	1.405	1.405
.0400-	1.330	2.118	2.478	2.035	1.405	1.405
.0600	1.330	2.118	2.478	2.035	1.405	1.405
.0800	1.330	2.118	2.478	2.035	1.405	1.405
.1000	1.330	2.118	2.478	2.035	1.405	1.405
.1500	1.394	1.165	1.400	1.400	1.400	1.400
.2133	1.374	1.168	1.400	1.400	1.400	1.400
.2533	1.425	1.262	1.117	1.117	1.117	1.117
.3033	1.395	1.646	2.139	1.139	1.139	1.139
.3533	1.480	1.350	1.217	1.217	1.217	1.217
.4167	1.328	1.471	1.906	1.906	1.906	1.906
.4567	1.552	1.411	1.300	1.300	1.300	1.300
.5067	1.209	1.227	1.477	1.477	1.477	1.477
.5567	1.597	1.451	1.363	1.363	1.363	1.363
.6067	1.096	1.107	1.369	1.369	1.369	1.369
.6300	1.590	1.482	1.332	1.332	1.332	1.332
.6500	1.984	1.004	1.088	1.088	1.088	1.088
.6700	1.523	1.446	1.393	1.393	1.393	1.393
.6800	1.921	.966	1.286	1.286	1.286	1.286
.6900	1.467	1.404	1.359	1.359	1.359	1.359
.7100	1.833	.936	1.266	1.266	1.266	1.266
.7200-	1.581	1.517	1.473	1.473	1.473	1.473
.7300	1.586	1.520	1.473	1.473	1.473	1.473
.7400	1.586	1.520	1.473	1.473	1.473	1.473
.7500-	1.608	1.548	1.512	1.512	1.512	1.512
.7700	1.746	.917	1.194	1.194	1.194	1.194
.7800	1.705	1.676	1.637	1.637	1.637	1.637
.8100	2.504	2.387	2.468	2.468	2.468	2.468
.8200	2.732	.901	1.113	1.113	1.113	1.113
.8300	2.395	2.301	2.358	2.358	2.358	2.358
.8533	1.734	.867	1.992	1.992	1.992	1.992
.8733	2.152	1.970	1.992	1.992	1.992	1.992
.8833	1.793	.845	.911	.911	.911	.911
.9033	1.931	1.931	1.869	1.869	1.869	1.869
.9133	1.777	.848	.866	.866	.866	.866
.9333	1.916	1.894	1.848	1.848	1.848	1.848
.9433	1.797	.856	.853	.853	.853	.853
.9633	1.864	1.858	.880	.880	.880	.880
.9733	1.780	.827	.861	.861	.861	.861
.9833	1.826	1.828	.878	.878	.878	.878
.9933	1.826	1.828	.878	.878	.878	.878
1.0033	1.857	1.816	1.793	1.793	1.793	1.793
1.0133	1.829	1.794	1.783	1.783	1.783	1.783
1.0233	1.806	.884	.906	.906	.906	.906
1.0333	1.836	1.779	1.787	1.787	1.787	1.787
1.0433	1.028	1.060	1.077	1.077	1.077	1.077
1.0533	1.768	1.729	1.696	1.696	1.696	1.696
1.0583	1.469	1.451	1.433	1.433	1.433	1.433

M=0.93

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.565	.873	1.186	1.486	1.786	1.986
.0100-	1.279	.806	2.537	2.037	1.407	1.407
.0200						

TABLE 32.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

($\beta = -30^\circ$, $\delta = 0^\circ$)

M = 0.60

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.465	.862	1.481	2.020	2.038	1.872
.0100-	1.459	.743	1.508	2.404	1.399	1.431
.0200	1.988	1.608	1.878	2.007	1.853	1.839
.0400-	1.390	.941	1.691	1.529	1.452	1.408
.0600	1.1043	1.394	1.771	1.921	1.846	1.837
.0800-	1.332	1.1032	1.813	1.651	1.552	1.498
.1000	1.0668	1.352	1.892	1.959	1.837	1.830
.1500-	1.071	1.216	1.422	1.854	1.781	1.810
.2000	1.089	1.271	1.546	1.906	1.804	1.815
.2500-	1.345	1.200	1.404	1.913	1.818	1.760
.3000	1.391	1.172	1.378	1.854	1.738	1.810
.3500-	1.031	1.277	1.143	1.024	1.024	1.024
.4167	1.031	1.129	1.122	1.122	1.035	1.021
.4567-	1.946	1.029	1.172	1.122	1.035	1.021
.5067	1.482	1.408	1.306	1.220	1.163	1.153
.5567-	1.870	1.946	1.093	1.724	1.722	1.750
.6000	1.531	1.472	1.378	1.287	1.271	1.244
.6500-	1.770	1.610	1.047	1.655	1.707	1.738
.7000	1.546	1.490	1.404	1.322	1.313	1.331
.7500-	1.729	1.631	1.170	1.707	1.728	1.728
.8000	1.544	1.504	1.428	1.354	1.354	1.354
.8500-	1.641	1.736	.995	1.585	1.691	1.716
.9000	1.635	1.630	1.513	1.443	1.443	1.443
.9500-	1.578	1.822	.965	1.428	1.661	1.697
.0000	1.682	1.683	1.592	1.512	1.544	1.596
.0500-	1.903	1.949	1.888	1.911	1.911	1.992
.1000	1.866	1.958	1.862	1.775	1.801	1.872
.1500-	1.829	1.892	1.846	1.372	1.399	1.429
.2000	1.830	1.911	1.816	1.601	1.601	1.688
.2500-	1.538	1.682	.894	1.337	1.400	1.488
.3000	1.675	1.855	1.765	1.799	1.799	1.886
.3500-	1.725	1.773	1.698	1.619	1.669	1.822
.4000-	1.675	1.702	1.602	1.242	1.242	1.278
.4500-	1.933	1.932	1.892	1.559	1.559	1.678
.5000-	1.738	1.763	1.619	1.175	1.175	1.258
.5500-	1.597	1.623	1.578	1.479	1.613	1.655
.6000-	1.338	1.339	1.467	1.119	1.358	1.457
.6500-	1.504	1.578	1.539	1.149	1.558	1.644
.7000-	1.866	1.906	1.984	1.090	1.534	1.655
.7500-	1.590	1.581	1.477	1.362	1.601	1.622
.8000-	1.013	1.309	1.467	1.362	1.601	1.622
.8500-	.970	.972	1.028	1.071	1.573	1.682
.9000-	1.547	1.461	1.409	1.297	1.612	1.721
.9500-	1.043	1.102	1.102	1.076	1.571	1.684
.0000	1.410	1.402	1.310	1.284	1.585	1.684
.0500-	1.291	1.321	1.271	1.263	1.543	1.675

M = 0.80

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.494	.923	1.429	1.814	2.059	1.951
.0100-	1.370	.746	1.535	.460	.438	.447
.0200	1.158	2.094	2.362	2.068	1.954	1.902
.0400-	1.387	.949	1.734	1.594	1.508	1.446
.0600	1.193	1.614	2.304	2.063	1.955	1.896
.0800-	1.373	1.056	.847	.708	.610	.531
.1000	1.166	1.537	2.055	2.053	1.956	1.921
.1500-	1.211	1.353	1.748	1.925	1.904	1.868
.2000	1.236	1.432	1.939	1.997	1.927	1.893
.2500-	1.419	1.336	1.883	1.952	1.863	1.786
.3000	1.451	1.353	1.748	1.925	1.877	1.809
.3500-	1.468	1.318	1.837	1.975	1.984	1.909
.4167	1.531	1.246	1.821	1.864	1.877	1.877
.4567-	1.535	1.381	1.266	1.169	1.090	1.025
.5067	1.059	1.119	1.338	1.833	1.862	1.867
.5567-	1.542	1.439	1.341	1.313	1.194	1.140
.6000	1.555	1.985	1.888	1.807	1.845	1.849
.6500-	1.669	1.460	1.885	1.322	1.251	1.219
.7000	1.669	1.775	1.071	1.760	1.821	1.837
.7500-	1.549	1.468	1.402	1.349	1.239	1.263
.8000	1.781	1.651	1.479	1.479	1.817	1.831
.8500-	1.519	1.456	1.359	1.359	1.316	1.286
.9000	1.705	.807	.885	1.751	1.808	1.821
.9500-	1.658	1.575	1.513	1.468	1.424	1.397
.0000	1.590	1.790	1.513	1.490	1.522	1.499
.0500-	1.659	.948	1.681	1.778	1.810	1.810
.1000	1.706	1.644	1.580	1.542	1.532	1.495
.1500-	1.710	1.717	1.656	1.656	1.752	1.800
.2000	1.772	1.763	1.728	1.730	1.687	1.683
.2500-	1.794	1.784	1.777	1.935	2.030	2.158
.3000-	1.802	1.822	1.822	1.822	1.822	1.822
.3500-	1.774	1.763	1.758	1.927	2.102	2.178
.4000-	1.600	1.763	1.841	1.557	1.722	1.781
.4500-	1.744	1.733	1.721	1.793	1.771	1.923
.5000-	1.659	1.762	1.704	1.704	1.809	1.894
.5500-	1.733	1.720	1.704	1.704	1.809	1.894
.6000-	1.737	1.789	1.857	1.809	1.716	1.778
.6500-	1.820	1.845	1.883	1.883	1.883	1.903
.7000-	1.718	1.718	1.694	1.690	1.882	1.895
.7500-	1.905	1.721	1.700	1.700	1.712	1.753
.8000-	1.683	1.721	1.700	1.704	1.859	1.890
.8500-	1.990	1.005	1.019	1.392	1.643	1.740
.9000-	1.748	1.713	1.692	1.716	1.803	1.875
1.0000	1.724	1.713	1.692	1.716	1.803	1.875
1.0100	1.076	1.095	1.086	1.456	1.708	1.753
1.0200	1.728	1.699	1.686	1.732	1.895	1.861
1.0300	1.748	1.713	1.692	1.716	1.803	1.875
1.0400	1.651	1.663	1.637	1.848	1.894	1.864
1.0500	1.539	1.559	1.519	1.517	1.676	1.766

M = 0.90

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.537	.872	1.225			
.0100-	1.296	.795	1.599			
.0200	1.301	2.322	2.544			
.0400-	1.316	2.106	2.767			
.0600	1.378	1.100	.898			
.0800-	1.340	1.584	2.282			
.1000	1.366	1.591	2.009			
.1500-	1.366	1.635	2.236			
.2000	1.446	1.282	1.235			
.2500-	1.338	1.339	2.020			
.3000	1.513	1.364	1.222			
.3500-	1.254	1.304	1.528			
.4167	1.279	1.421	1.303			
.4567-	1.234	1.457	1.362			
.5067	1.299	1.015	1.188			
.5567-	1.409	1.465	1.397			
.6000	1.529	1.427	1.371			
.6500-	1.611	1.390	1.055			
.7000	1.473	1.275	1.334			
.7500-	1.738	.874	1.085			
.8000	1.552	1.482	1.445			
.8500-	1.560	1.513	1.477			
.9000	1.709	.864	1.082			
.9500-	1.634	1.610	1.579			
.0000	1.678	.867	1.070			
.0500-	1.749	1.737	1.698			
.1000	1.844	1.792	1.859			
.1500-	1.878	1.867	1.934			
.2000	1.836	1.788	1.834			
.2500-	1.633	.824	.962			
.3000	1.811	1.770	1.810			
.3500-	1.806	1.762	1.803			
.4000-	1.757	1.609	1.923			
.4500-	1.852	.858	.953			
.5000-	1.809	1.760	1.787			
.5500-	1.806	1.766	1.778			
.6000	1.041	1.020	1.080			
.6500-	1.822	1.765	1.769			
.7000	1.817	1.763	1.763			
.7500-	1.094	1.110	1.157			
.8000	1.811	1.755	1.740			
.8500-	1.811	1.755	1.740			
.9000	1.789	1.739	1.711			
.9500-	1.623	1.610	1.591			

M = 0.93

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.550	.860	1.167			
.0100-	1.297	.814	2.627			
.0200	1.384	1.007	.815			
.0400-	1.350	2.112	2.373			
.0600	1.393	1.905	2.227			
.1000	1.413	1.196	1.042			
.1500-	1.445	1.714	2.150			
.2000	1.453	1.289	1.500			
.2500-	1.399	1.721	2.078			
.3000	1.510	1.372	1.262			
.3500-	1.294	1.387	1.833			
.4000	1.580	1.443	1.340			
.4567	1.249	1.253	1.457			
.5067	1.623	1.485	1.399			
.5567	1.017	1.020	1.361			
.6000	1.662	1.482	1.415			
.6500-	1.888	1.942	1.325			
.7000	1.615	1.448	1.394			
.7500-	1.835	.823	1.341			
.8000	1.520	1.380	1.345			
.8500-	1.744	1.933	1.362			
.9000	1.630	1.476	1.451			
.9500-	1.628	1.489	1.469			
.0000	1.744	1.911	1.355			
.0500-	1.642	1.513	1.555			
.1000	1.720	.934	1.289			
.1500-	1.750	1.705	1.620			
.2000	1.937	1.841	1.977			
.2500	.695	.920	1.189			
.3000	1.893	1.834	1.962			
.3500	1.656	1.883	1.056			
.4000	1.867	1.824	1.923			
.4500	1.694	1.827				

TABLE 34.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

($\delta_f = 30^\circ$; $\delta_r = 20^\circ$)

M=0.60

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.462	1.050	1.884	2.095	2.194	1.843
.0100	1.375	.694	1.489	2.406	2.408	1.482
.0200	1.063	1.691	2.490	2.059	1.913	1.816
.0400	1.335	1.904	1.677	2.525	2.453	1.403
.0600	1.101	1.473	1.816	2.094	1.898	1.603
.0800	1.318	1.008	1.792	2.646	2.554	1.485
.1000	1.125	1.414	1.781	1.962	1.893	1.809
.1500	1.315	1.096	1.905	2.772	2.692	1.603
.2133	1.143	1.320	1.951	1.903	1.848	1.802
.2533	1.336	1.180	1.922	1.905	1.818	1.741
.3033	1.130	1.269	1.884	1.856	1.829	1.790
.3533	1.374	1.342	1.816	1.011	1.936	1.869
.4167	1.094	1.185	1.752	1.806	1.807	1.771
.4567	1.124	1.309	1.800	1.106	1.053	1.998
.5067	1.015	1.096	1.257	1.770	1.789	1.783
.5567	1.458	1.361	1.873	1.195	1.164	1.183
.5867	1.946	1.989	1.982	1.734	1.776	1.732
.6300	1.485	1.402	1.324	1.248	1.242	1.711
.6500	1.854	1.868	1.724	1.653	1.755	1.711
.6700	1.484	1.408	1.337	1.283	1.288	1.287
.6800	1.441	1.342	1.347	1.665	1.748	1.762
.7100	1.728	.796	1.053	1.613	1.730	1.684
.7200	1.570	1.510	1.447	1.397	1.423	1.433
.7300	1.613	1.374	1.317	1.874	1.444	1.463
.7400	1.654	.776	1.032	1.525	1.706	1.676
.7500	1.613	1.561	1.497	1.457	1.508	1.539
.7700	1.459	1.456	1.382	1.353	1.442	1.457
.7800	1.823	1.756	1.704	1.674	1.806	1.891
.8100	1.987	1.806	1.785	1.800	2.199	2.485
.8200	1.574	1.762	1.969	1.382	1.648	2.654
.8300	1.617	1.774	1.741	1.850	1.963	1.964
.8533	1.617	.734	1.968	1.361	1.648	1.661
.8733	1.699	1.666	1.622	1.551	1.664	1.767
.8933	1.699	1.666	1.622	1.551	1.664	1.767
.9033	1.645	1.624	1.572	1.543	1.637	1.691
.9133	1.610	.626	1.994	1.281	1.639	1.658
.9333	1.590	1.587	1.539	1.593	1.696	1.682
.9433	1.531	1.344	1.551	1.593	1.696	1.682
.9633	1.546	1.554	1.497	1.460	1.569	1.590
.9733	1.493	1.412	1.497	1.498	1.635	1.644
.9833	1.493	1.412	1.497	1.498	1.635	1.644
.9933	1.385	1.381	1.217	1.202	1.620	1.649
1.0033	1.403	1.488	1.349	1.302	1.458	1.507
1.0133	1.434	1.413	1.352	1.352	1.547	1.547
1.0233	1.434	1.313	1.180	1.168	1.604	1.638
1.0333	1.439	1.419	1.345	1.301	1.514	1.554
1.0433	1.280	1.269	1.173	1.153	1.584	1.643
1.0533	1.280	1.269	1.173	1.153	1.584	1.643
1.0583	1.277	1.304	1.227	1.186	1.564	1.652

M=0.90

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.555	.926	1.268	1.653	1.653	1.653
.0100	1.249	.773	1.292	1.977	1.977	1.977
.0200	1.356	2.260	2.597	2.371	2.371	2.371
.0400	1.340	.970	1.778	2.639	2.639	2.639
.0600	1.357	2.152	2.480	2.755	2.755	2.755
.0800	1.357	1.080	1.885	2.925	2.925	2.925
.1000	1.386	1.968	2.395	2.327	2.327	2.327
.1500	1.389	1.666	2.265	2.870	2.870	2.870
.2133	1.404	1.404	2.265	2.870	2.870	2.870
.2533	1.422	1.260	1.106	2.987	2.987	2.987
.3033	1.387	1.660	2.157	2.167	2.167	2.167
.3533	1.486	1.356	1.206	1.097	1.097	1.097
.4167	1.317	1.375	1.847	2.040	2.040	2.040
.4567	1.550	1.409	1.288	1.192	1.192	1.192
.5067	1.188	1.199	1.449	1.960	1.960	1.960
.5567	1.591	1.450	1.356	1.276	1.276	1.276
.5867	1.062	1.066	1.333	1.902	1.902	1.902
.6300	1.571	1.464	1.394	1.330	1.330	1.330
.6500	1.527	.988	1.066	1.843	1.843	1.843
.6700	1.522	1.457	1.401	1.345	1.345	1.345
.6800	1.574	.961	1.234	1.839	1.839	1.839
.7100	1.472	1.413	1.361	1.324	1.324	1.324
.7200	1.607	1.552	1.497	1.454	1.454	1.454
.7300	1.519	1.470	1.508	1.467	1.467	1.467
.7400	1.553	1.342	1.169	1.759	1.759	1.759
.7500	1.644	1.591	1.540	1.500	1.500	1.500
.7700	1.729	1.559	1.333	1.737	1.737	1.737
.7800	1.732	1.707	1.662	1.637	1.637	1.637
.8100	1.777	1.688	1.724	1.818	1.818	1.818
.8200	1.697	1.948	1.985	1.676	1.676	1.676
.8300	1.674	.572	1.708	1.847	1.847	1.847
.8533	1.674	.909	.947	1.847	1.847	1.847
.8733	1.747	1.656	1.691	1.841	1.841	1.841
.8833	1.756	1.699	1.695	1.820	1.820	1.820
.9033	1.755	1.707	1.695	1.820	1.820	1.820
.9133	1.867	.927	.930	1.595	1.595	1.595
.9333	1.792	1.602	1.733	1.925	1.925	1.925
.9433	1.779	1.694	1.742	1.906	1.906	1.906
.9633	1.163	1.177	1.203	1.561	1.561	1.561
.9733	1.171	1.195	1.226	1.589	1.589	1.589
.9833	1.413	1.445	1.458	1.597	1.597	1.597
1.0033	1.717	1.544	1.707	1.865	1.865	1.865
1.0133	1.741	1.675	1.742	1.906	1.906	1.906
1.0233	1.709	1.119	1.421	1.826	1.826	1.826
1.0333	1.761	1.676	1.721	1.906	1.906	1.906
1.0433	1.144	2.048	1.666	1.622	1.622	1.622
1.0533	1.144	2.048	1.666	1.622	1.622	1.622
1.0583	1.175	1.731	1.741	1.737	1.737	1.737

^a Lower surface orifice is denoted by -.

M=0.80

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.510	.996	1.512	1.899	2.067	2.002
.0100	1.322	.724	2.526	1.461	1.439	1.453
.0200	1.233	2.894	2.839	2.103	1.960	1.941
.0400	1.556	2.950	2.511	2.589	2.589	2.589
.0600	1.245	1.665	2.687	2.094	1.962	1.955
.0800	1.355	1.040	2.826	2.705	2.605	2.532
.1000	1.288	1.580	2.542	2.889	1.966	1.945
.1500	1.268	1.133	1.905	1.918	1.263	1.245
.2133	1.294	1.475	1.702	2.025	1.936	1.917
.2533	1.339	1.215	1.954	1.948	1.856	1.837
.3033	1.288	1.402	1.826	1.981	1.911	1.911
.3533	1.446	1.399	1.155	1.061	.972	.904
.4167	1.224	1.302	1.411	1.927	1.886	1.889
.4567	1.127	1.180	1.193	1.897	1.866	1.858
.5067	1.530	1.414	1.315	1.285	1.191	1.141
.5567	1.502	1.062	1.359	1.181	1.049	1.041
.6300	1.549	1.492	1.116	1.027	1.839	1.825
.6500	.911	.957	1.116	1.027	1.839	1.825
.6700	1.545	1.449	1.376	1.342	1.301	1.289
.6800	1.851	1.553	1.067	1.166	1.328	1.319
.6900	1.501	1.417	1.348	1.329	1.398	1.272
.7100	1.767	1.876	1.058	1.780	1.810	1.814
.7200	1.633	1.566	1.496	1.454	1.421	1.397
.7300	1.648	1.565	1.496	1.474	1.439	1.416
.7400	.725	.858	1.041	1.740	1.787	1.814
.7500	1.671	1.597	1.527	1.517	1.488	1.472
.7600	1.761	1.849	1.067	1.829	1.864	1.807
.7800	1.769	1.720	1.655	1.699	1.680	1.684
.8100	1.624	1.610	1.653	1.882	2.082	2.186
.8200	1.822	1.800	1.653	1.882	2.082	2.186
.8300	1.604	1.585	1.617	1.677	2.223	2.219
.8533	1.683	.816	.995	1.650	1.725	1.788
.8733	1.600	1.580	1.600	1.782	1.851	1.979
.8833	1.600	1.580	1.600	1.782	1.851	1.979
.9033	1.624	1.598	1.601	1.796	1.912	1.970
.9133	1.877	1.909	1.047	1.897	1.709	1.765
.9333	1.659	1.333	1.109	1.555	1.695	1.777
.9433	1.008	1.019	1.109	1.555	1.695	1.777
.9633	1.680	1.650	1.643	1.919	2.007	2.026
.9733	1.680	1.650	1.643	1.919	2.007	2.026
.9833	1.654	1.654	1.639	1.869	1.955	1.957
.9933	1.485	1.506	1.399	1.704	1.678	1.771
1.0033	1.608	1.552	1.517	1.725	1.828	1.869
1.0133	1.613	1.552	1.517	1.725	1.828	1.869
1.0233	1.833	1.599	1.424	1.473	1.690	1.786
1.0333	1.674	1.621	1.604	1.966	1.933	1.912
1.0433	1.682	1.582	1.470	1.823	1.849	1.863
1.0533	1.621	1.582	1.470	1.823	1.849	1.863
1.0583	1.621	1.604	1.580	1.866	1.868	1.783

M=0.93

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.568	.906	1.197	1.653	1.653	1.653
.0100	1.241	.797	1.292	1.977	1.977	1.977
.0200	1.349	2.260	2.597	2.371	2.371	2.371
.0400	1.340	.970	1.778	2.639	2.639	2.639
.0600	1.357	2.152	2.480	2.755	2.755	2.75

TABLE 35- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

$(\beta_f = -30^\circ; \delta_f = -20^\circ)$

M = 0.60

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.502	.795	1.703	2.006	2.027	1.865
.0100	1.544	1.790	2.513	2.405	2.395	1.458
.0200	1.936	2.282	3.224	2.907	1.675	1.458
.0400	1.398	1.969	2.708	2.531	1.452	1.408
.0600	1.102	1.362	1.726	1.264	1.877	1.826
.0800	1.080	1.069	1.831	1.557	1.589	1.497
.1000	1.060	1.313	1.656	1.960	1.857	1.818
.1500	1.075	1.151	1.942	1.783	1.645	1.616
.2000	1.033	1.085	1.508	1.902	1.824	1.806
.2500	1.397	1.229	1.061	1.517	1.831	1.762
.3000	1.977	1.180	1.384	1.864	1.798	1.800
.3500	1.449	1.310	1.164	1.028	1.955	1.892
.4000	1.027	1.039	1.233	1.817	1.773	1.786
.4500	1.495	1.377	1.235	1.056	1.666	1.658
.5000	1.927	1.986	1.128	1.227	1.137	1.759
.5500	1.537	1.440	1.340	1.277	1.137	1.529
.6000	1.840	1.488	1.139	1.724	1.174	1.749
.6500	1.569	1.488	1.139	1.724	1.174	1.749
.7000	1.739	1.748	1.967	1.146	1.719	1.739
.7500	1.577	1.511	1.422	1.339	1.339	1.339
.8000	1.694	1.482	1.244	1.292	1.777	1.750
.8500	1.574	1.505	1.422	1.339	1.339	1.339
.9000	1.606	1.608	1.233	1.562	1.700	1.712
.9500	1.662	1.635	1.544	1.438	1.473	1.488
1.0000	1.739	1.635	1.557	1.438	1.473	1.507
1.0500	1.551	1.677	1.892	1.468	1.651	1.657
1.1000	1.744	1.700	1.621	1.590	1.550	1.599
1.1500	1.824	1.668	1.474	1.522	1.573	1.655
1.2000	2.030	2.011	1.950	1.839	1.839	1.987
1.2500	1.971	2.028	1.964	1.839	1.839	1.559
1.3000	1.820	1.668	1.809	1.828	1.837	1.398
1.3500	1.833	1.633	1.827	1.839	1.839	1.644
1.4000	1.861	1.906	1.666	1.716	1.811	2.036
1.4500	1.885	1.885	1.839	1.839	1.839	1.839
1.5000	1.818	1.865	1.788	1.839	1.839	1.962
1.5500	1.598	1.592	1.720	1.179	1.879	1.659
1.6000	1.794	1.824	1.755	1.628	1.800	1.818
1.6500	1.634	1.611	1.705	1.555	1.771	1.897
1.7000	1.756	1.776	1.820	1.522	1.730	1.866
1.7500	1.633	1.633	1.820	1.522	1.730	1.866
1.8000	1.932	1.733	1.671	1.522	1.730	1.866
1.8500	1.593	1.607	1.801	1.475	1.704	1.616
1.9000	1.743	1.722	1.633	1.475	1.704	1.944
1.9500	1.627	1.626	1.801	1.475	1.704	1.616
2.0000	1.823	1.810	1.895	1.475	1.704	1.656
2.0500	1.659	1.613	1.519	1.355	1.703	1.826
2.1000	1.938	1.917	1.526	1.355	1.703	1.711
2.1500	1.833	1.833	1.833	1.355	1.703	1.734
2.2000	1.375	1.337	1.301	1.146	1.608	1.688

M = 0.80

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.509	.905	1.420	1.829	2.151	2.440
.0100	1.408	1.776	2.544	2.457	2.457	1.440
.0200	1.811	2.282	3.224	2.907	1.675	1.458
.0400	1.398	1.969	2.708	2.531	1.452	1.408
.0600	1.173	1.548	2.743	2.088	1.959	1.959
.0800	1.389	1.085	2.844	2.088	1.705	1.698
.1000	1.207	1.493	2.383	2.082	1.960	1.960
.1500	1.396	1.175	1.958	1.827	1.834	1.834
.2000	1.218	1.387	1.505	2.003	1.939	1.939
.2500	1.425	1.262	1.073	1.948	1.857	1.857
.3000	1.190	1.314	1.430	1.957	1.927	1.927
.3500	1.475	1.350	1.175	1.053	1.980	1.980
.4000	1.135	1.205	1.077	1.906	1.897	1.897
.4500	1.910	1.933	1.059	1.842	1.864	1.864
.5000	1.011	1.069	1.173	1.877	1.882	1.882
.5500	1.548	1.467	1.335	1.253	1.199	1.199
.6000	1.910	1.490	1.077	1.306	1.270	1.270
.6500	1.798	1.823	1.973	1.799	1.846	1.846
.7000	1.596	1.510	1.406	1.347	1.347	1.347
.7500	1.883	1.618	1.508	1.424	1.424	1.424
.8000	1.559	1.489	1.387	1.346	1.336	1.336
.8500	1.651	1.766	1.929	1.761	1.828	1.828
.9000	1.618	1.611	1.503	1.448	1.424	1.424
.9500	1.662	1.618	1.510	1.454	1.434	1.434
1.0000	1.600	1.758	1.915	1.707	1.806	1.806
1.0500	1.880	1.681	1.516	1.651	1.651	1.651
1.1000	1.832	1.849	1.728	1.690	1.691	1.691
1.1500	1.898	1.934	1.880	1.740	2.230	2.230
1.2000	1.823	1.772	1.806	1.800	1.800	1.800
1.2500	1.862	1.878	1.815	1.740	2.265	2.265
1.3000	1.853	1.783	1.804	1.645	1.763	1.763
1.3500	1.873	1.837	1.890	1.710	1.863	1.863
1.4000	1.833	1.824	1.774	1.702	1.895	1.895
1.4500	1.913	1.874	1.884	1.557	1.759	1.759
1.5000	1.835	1.876	1.776	1.688	1.919	1.919
1.5500	1.943	1.683	1.894	1.507	1.744	1.744
1.6000	1.825	1.836	1.763	1.688	1.930	1.930
1.6500	1.671	1.886	1.905	1.448	1.756	1.756
1.7000	1.821	1.846	1.837	1.658	1.907	1.907
1.7500	1.628	1.676	1.897	1.395	1.693	1.693
1.8000	1.892	1.878	1.778	1.649	1.939	1.939
1.8500	1.613	1.819	1.731	1.610	1.914	1.914
1.9000	1.744	1.768	1.960	1.434	1.724	1.724
1.9500	1.787	1.764	1.680	1.628	1.909	1.909
2.0000	1.977	1.988	1.109	1.458	1.758	1.758
2.0500	1.733	1.737	1.637	1.591	1.896	1.896
2.1000	1.450	1.463	1.430	1.479	1.748	1.748

M = 0.90

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.533	.884	1.212	1.578	2.040	2.440
.0100	1.337	1.793	2.460	2.447	2.447	1.440
.0200	1.813	2.282	3.224	2.907	1.675	1.458
.0400	1.398	1.991	2.708	2.531	1.452	1.408
.0600	1.280	2.104	2.437	2.427	2.427	1.408
.0800	1.395	1.086	2.900	2.764	2.764	1.408
.1000	1.100	1.626	2.198	2.538	2.538	1.408
.1500	1.416	1.174	1.007	2.865	2.865	1.408
.2000	1.330	1.623	2.244	2.664	2.664	1.408
.2500	1.456	1.285	2.119	2.000	2.000	1.408
.3000	1.297	1.430	2.079	2.180	2.180	1.408
.3500	1.521	1.345	1.220	1.116	1.116	1.408
.4000	1.205	1.267	1.493	2.000	2.000	1.408
.4500	1.585	1.413	1.301	1.875	1.875	1.408
.5000	1.070	1.103	1.331	1.935	1.935	1.408
.5500	1.631	1.453	1.363	1.288	1.288	1.408
.6000	1.947	1.950	1.218	1.875	1.875	1.408
.6500	1.578	1.447	1.383	1.328	1.328	1.408
.7000	1.818	1.864	1.176	1.804	1.804	1.408
.7500	1.531	1.474	1.411	1.364	1.364	1.408
.8000	1.756	1.847	1.183	1.814	1.814	1.408
.8500	1.455	1.443	1.385	1.347	1.347	1.408
.9000	1.694	1.836	1.180	1.779	1.779	1.408
.9500	1.632	1.565	1.497	1.452	1.452	1.408
1.0000	1.620	1.553	1.490	1.452	1.452	1.408
1.0500	1.650	1.840	1.158	1.716	1.716	1.408
1.1000	1.634	1.568	1.528	1.480	1.480	1.408
1.1500	1.647	1.878	1.064	1.596	1.596	1.408
1.2000	1.730	1.699	1.653	1.625	1.625	1.408
1.2500	1.973	1.929	1.944	2.183	2.183	1.408
1.3000	1.623	1.867	1.064	1.596	1.596	1.408
1.3500	1.939	1.895	1.914	2.177	2.177	1.408
1.4000	1.563	1.823	1.007	1.554	1.554	1.408
1.4500	1.895	1.842	1.885	1.888	1.888	1.408
1.5000	1.833	1.770	1.885	1.888	1.888	1.408
1.5500	1.882	1.824	1.832	1.846	1.846	1.408
1.6000	1.639	1.732	1.929	1.466	1.466	1.408
1.6500	1.681	1.813	1.838	1.422	1.422	1.408
1.7000	1.681	1.720	1.914	1.422	1.422	1.408
1.7500	1.881	1.815	1.831	1.793	1.793	1.408
1.8000	1.680	1.718	1.905	1.374	1.374	1.408
1.8500	1.834	1.834	1.834	1.444	1.444	1.408
1.9000	1.638	1.709	1.892	1.330	1.330	1.408
1.9500	1.926	1.841	1.863	1.743	1.743	1.408
2.0000	1.951	1.825	1.851	1.731	1.731	1.408
2.0500	1.743	1.743	1.743	1.444	1.444	1.408
2.1000	1.622	1.804	1.814	1.705	1.705	1.408
2.1500	1.973	1.973	1.111	1.433	1.433	1.408
2.2000	1.537	1.798	1.782	1.433	1.433	1.408
2.2500	1.445	1.429	1.480	1.548	1.548	1.408

M = 0.93

X/C (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.552	.869	1.174	1.574	2.040	2.440
.0100	1.310	1.814	2.460	2.447	2.447	1.440
.0200	1.815	2.282	3.224	2.907	1.675	1.458
.0400	1.398	1.991	2.708	2.531	1.452	1.408
.0600	1.					

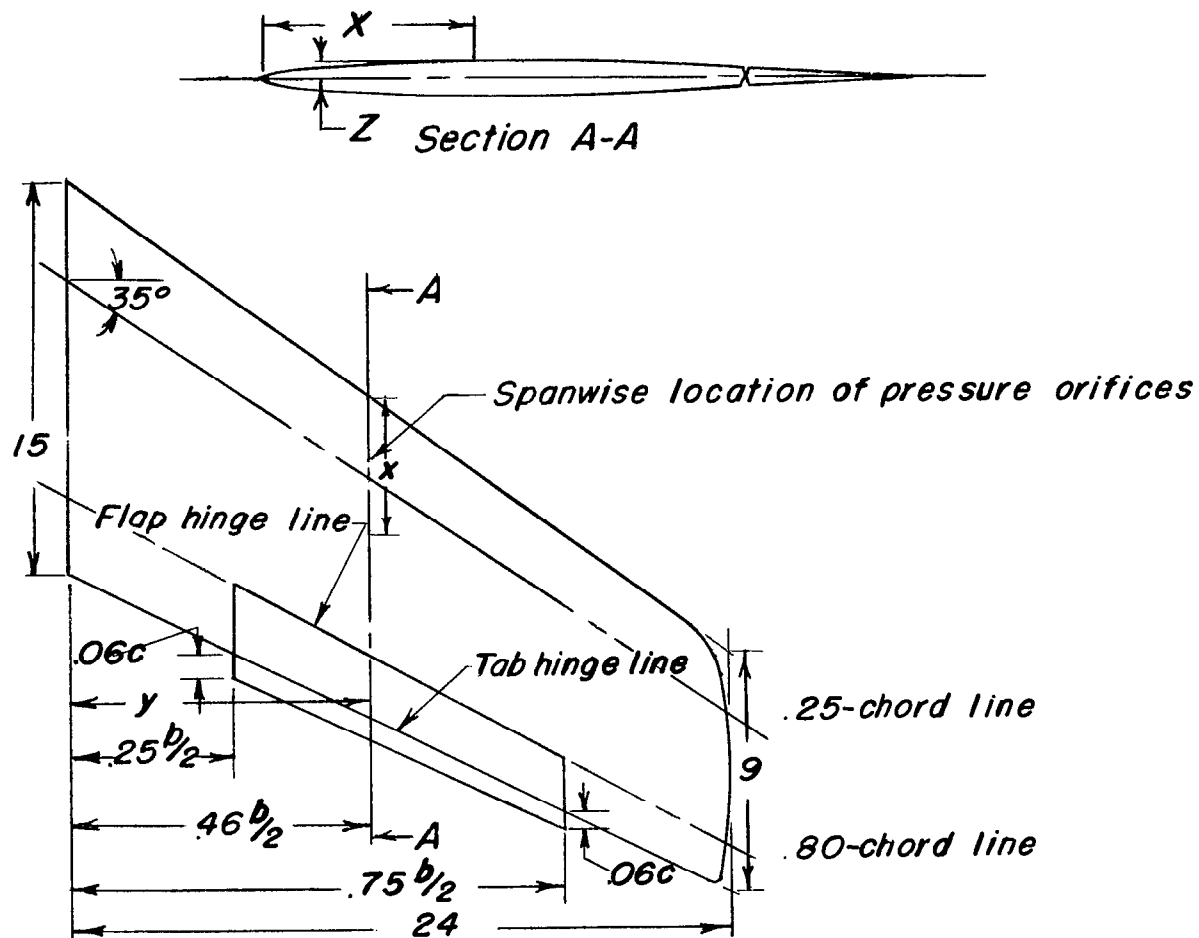


Figure 1.- Geometric characteristics of 35° sweptback wing equipped with flap-type control with attached tab. All dimensions are in inches unless otherwise noted.

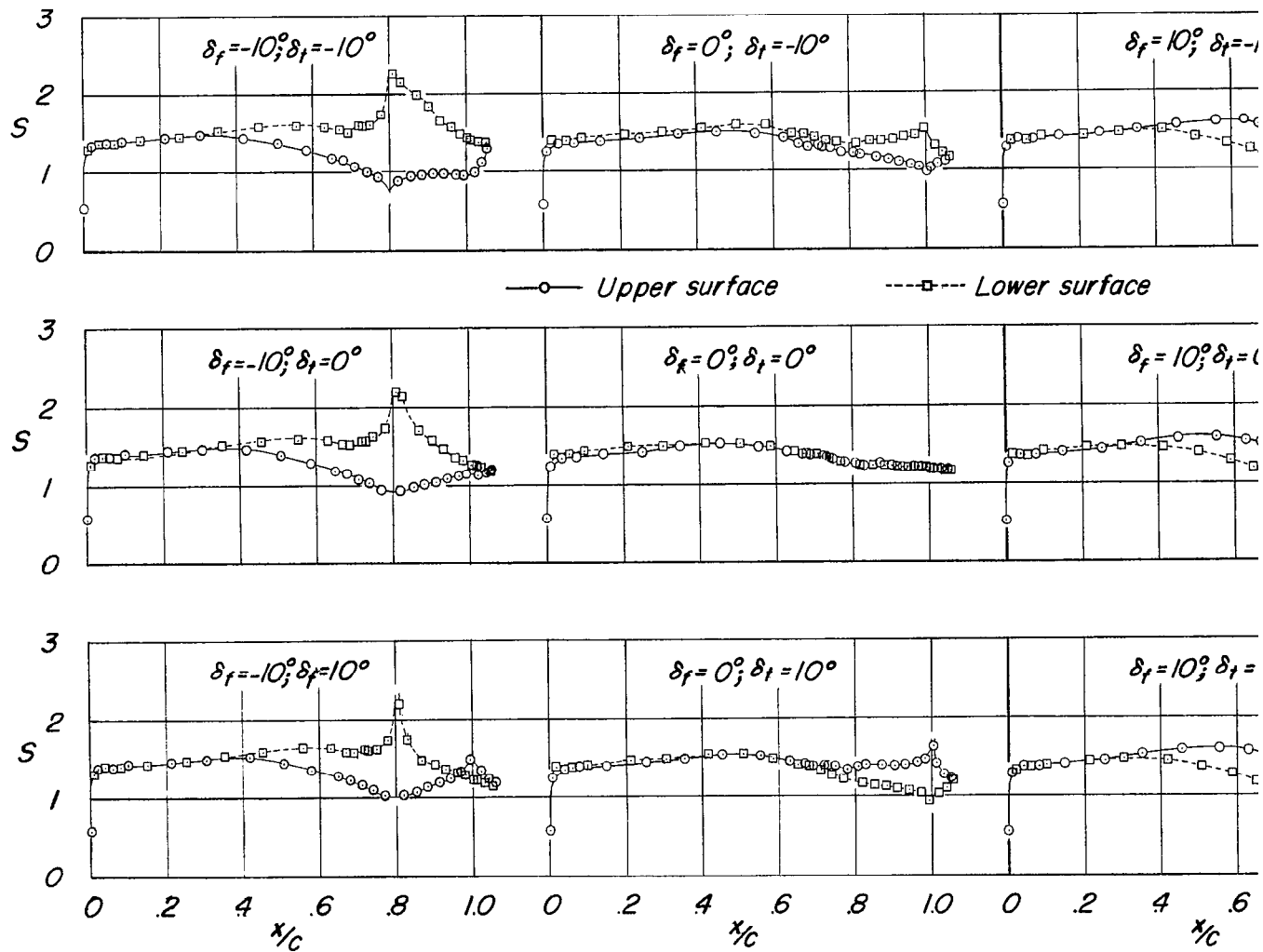


Figure 2.- Representative chordwise pressure distributions at 46-percent semispan station of 35° sweptback wing equipped with 20-percent-chord flap-type control and 6-percent-chord attached tab. $\alpha = 0^\circ$; $M = 0.9$

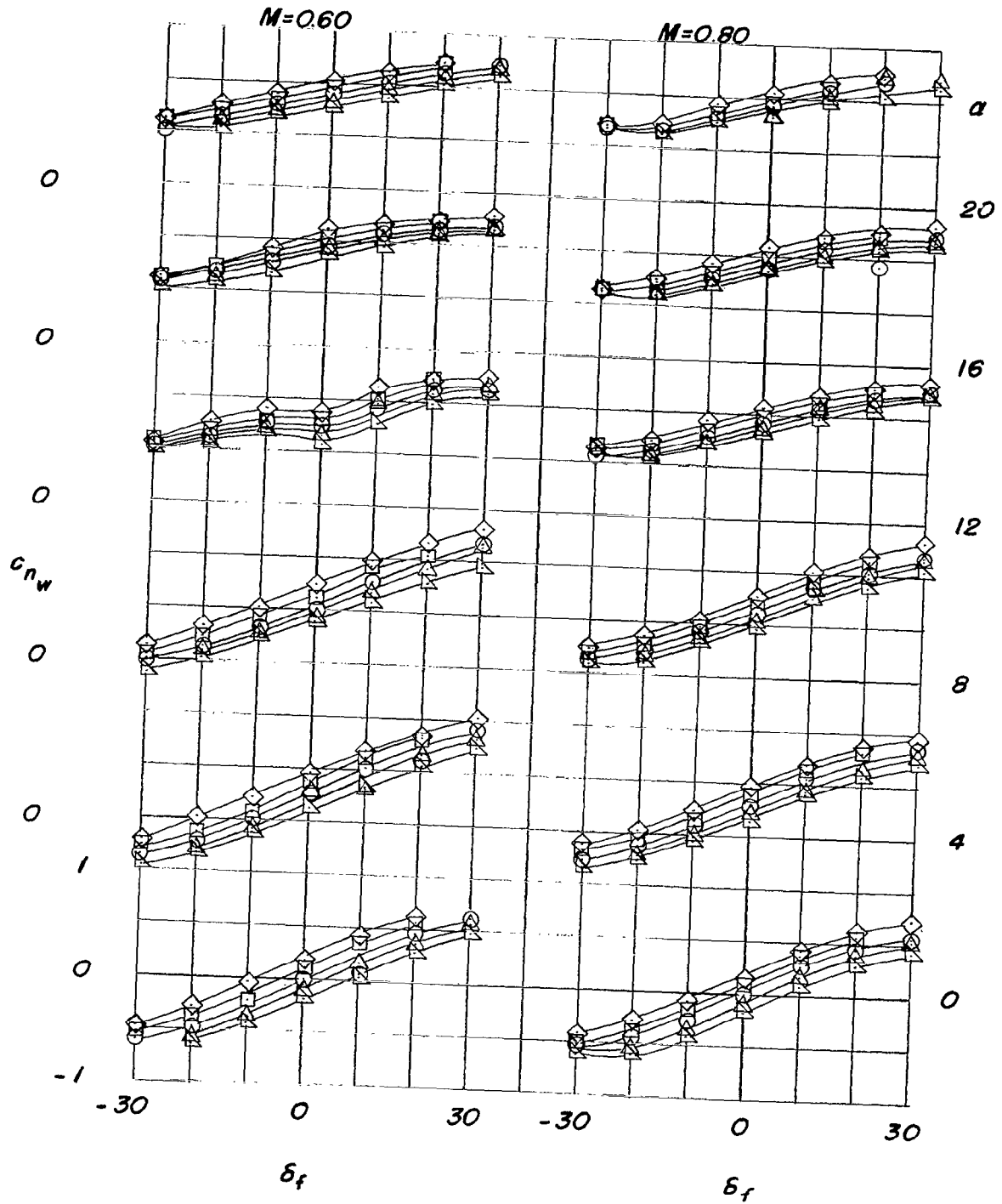


Figure 3.- Variation of section normal-force coefficient of wing with flap deflection for various tab deflections and angles of attack.

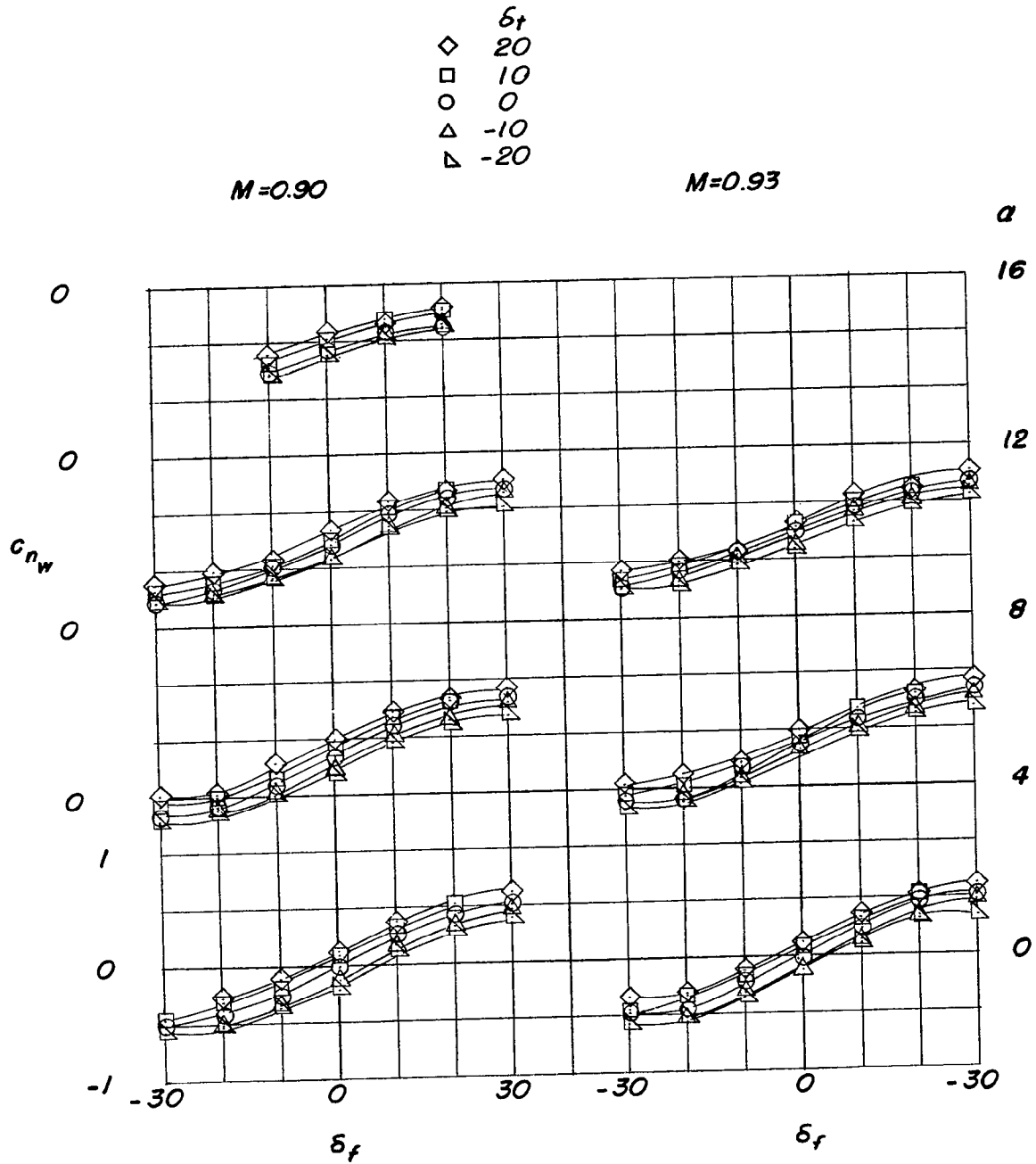


Figure 3.- Concluded.

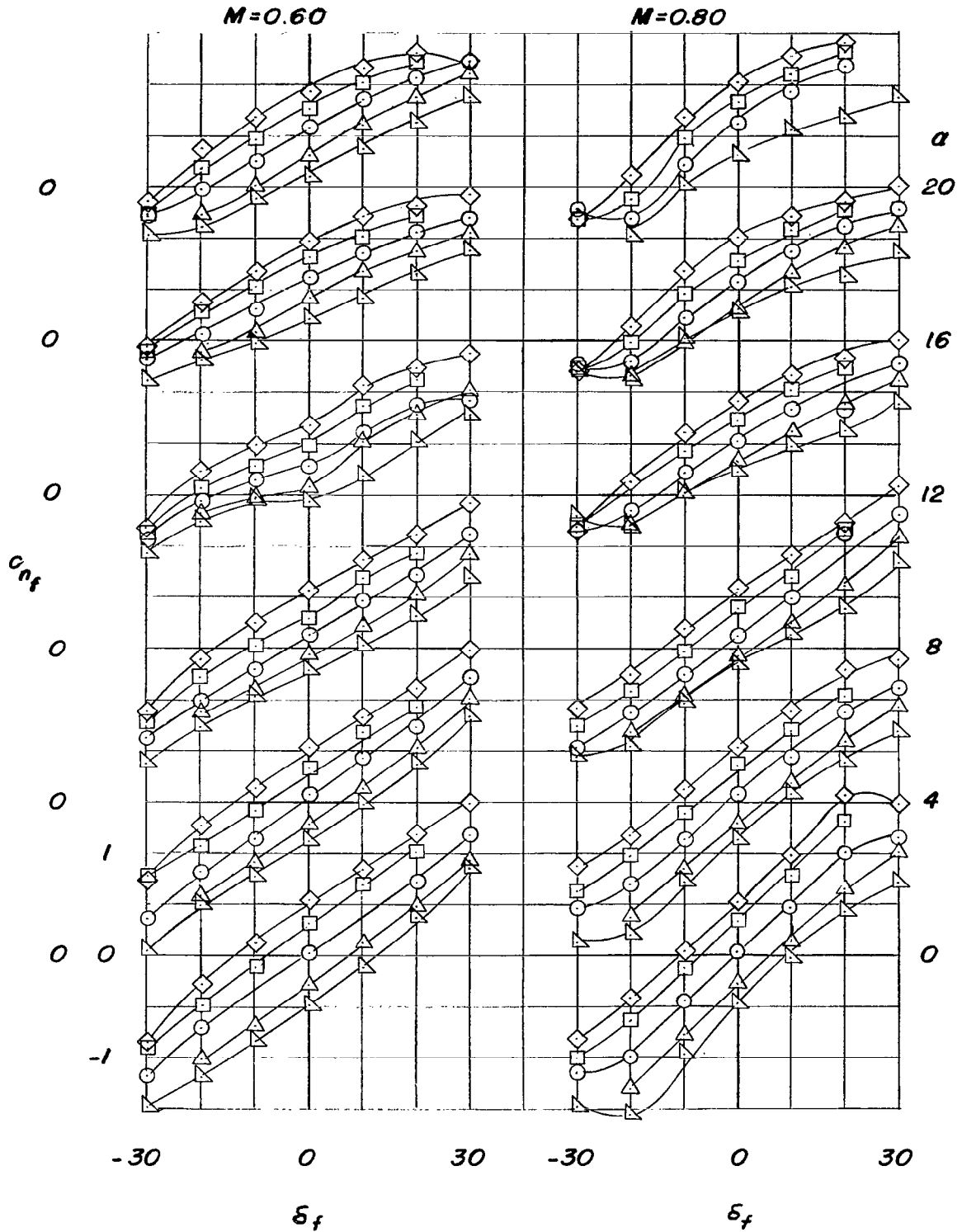


Figure 4.- Variation of section normal-force coefficient of flap with flap deflection for various tab deflections and angles of attack.

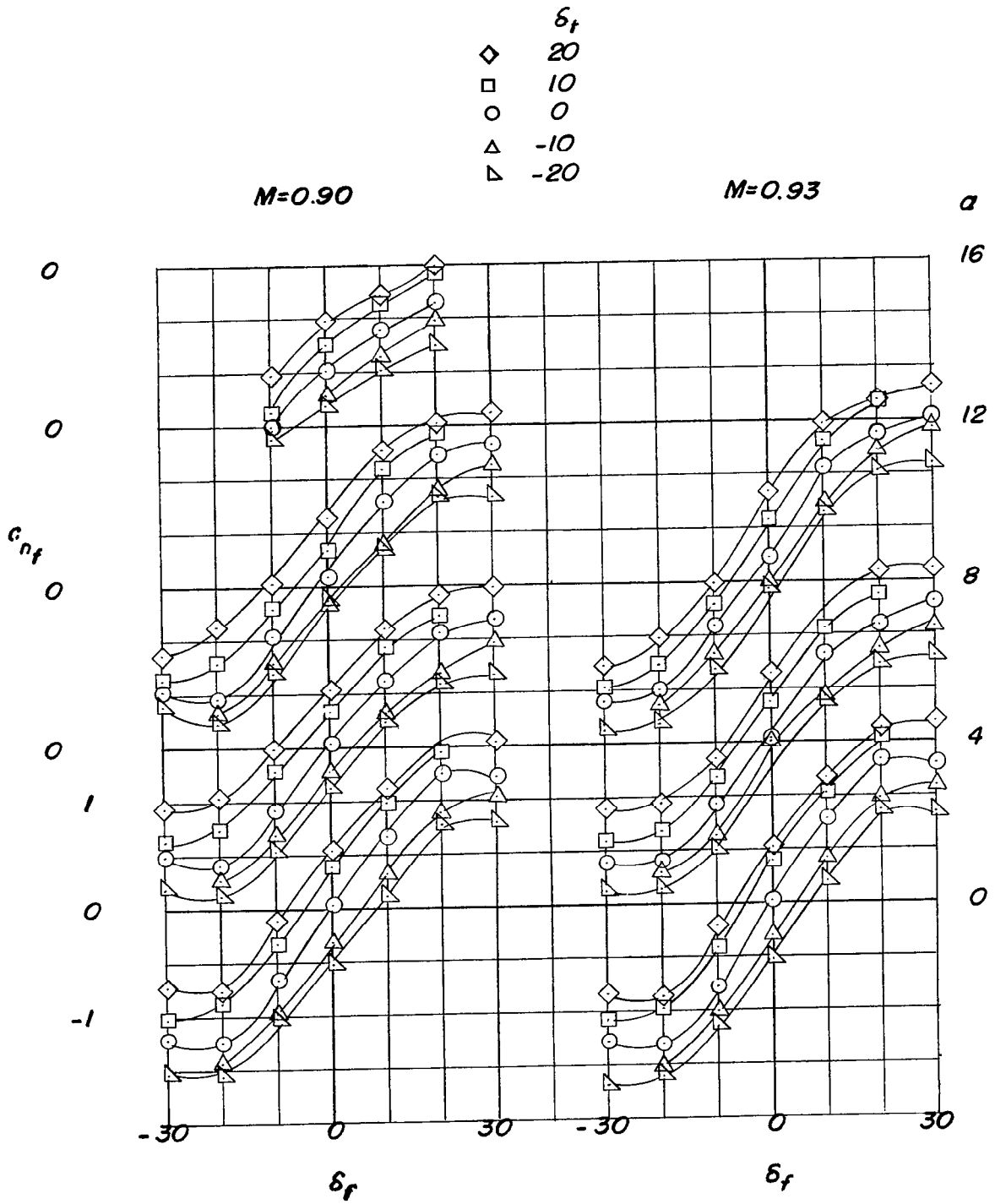


Figure 4.- Concluded.

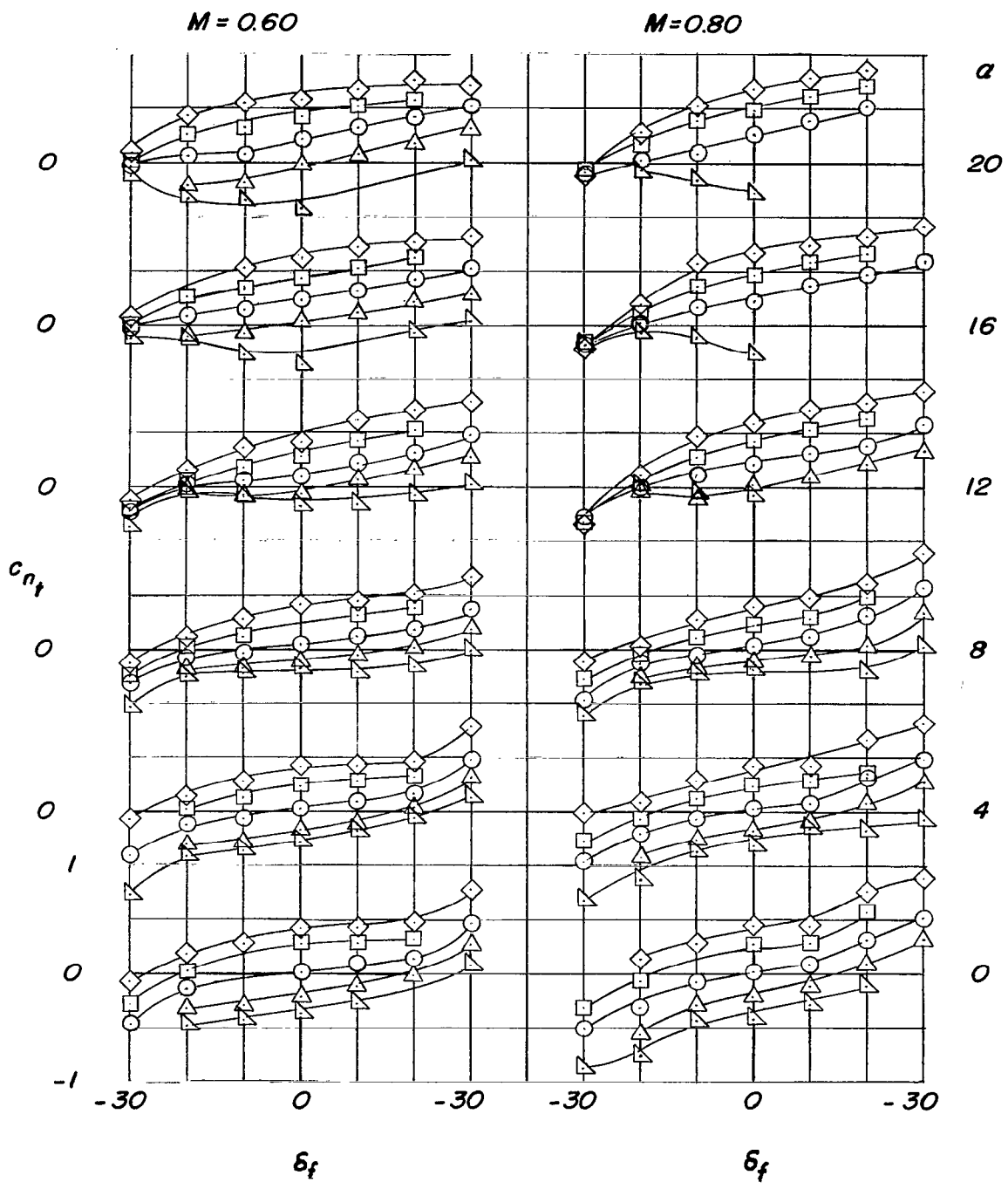


Figure 5.- Variation of section normal force of tab with flap deflection for various tab deflections and angles of attack.

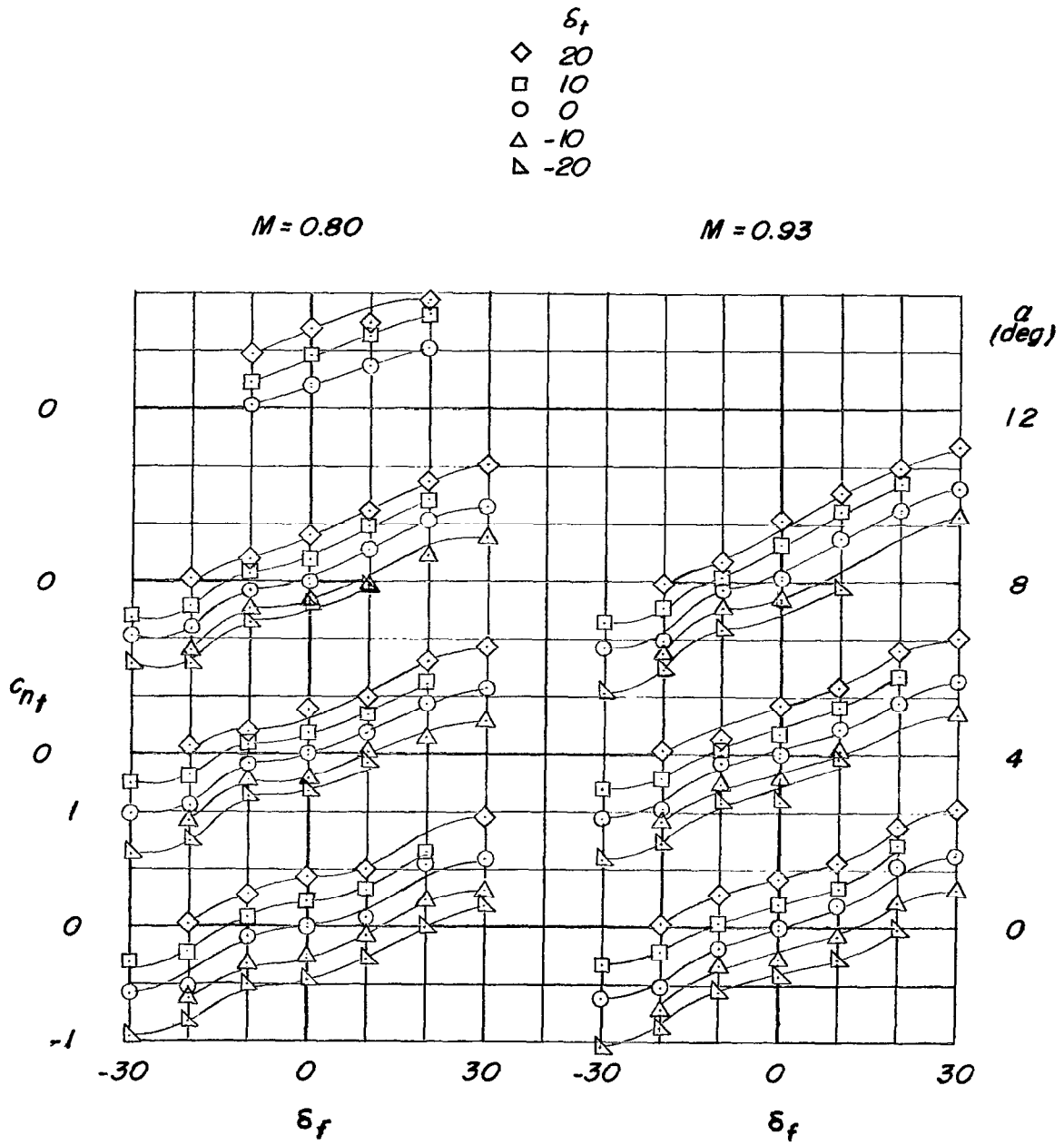


Figure 5.- Concluded.

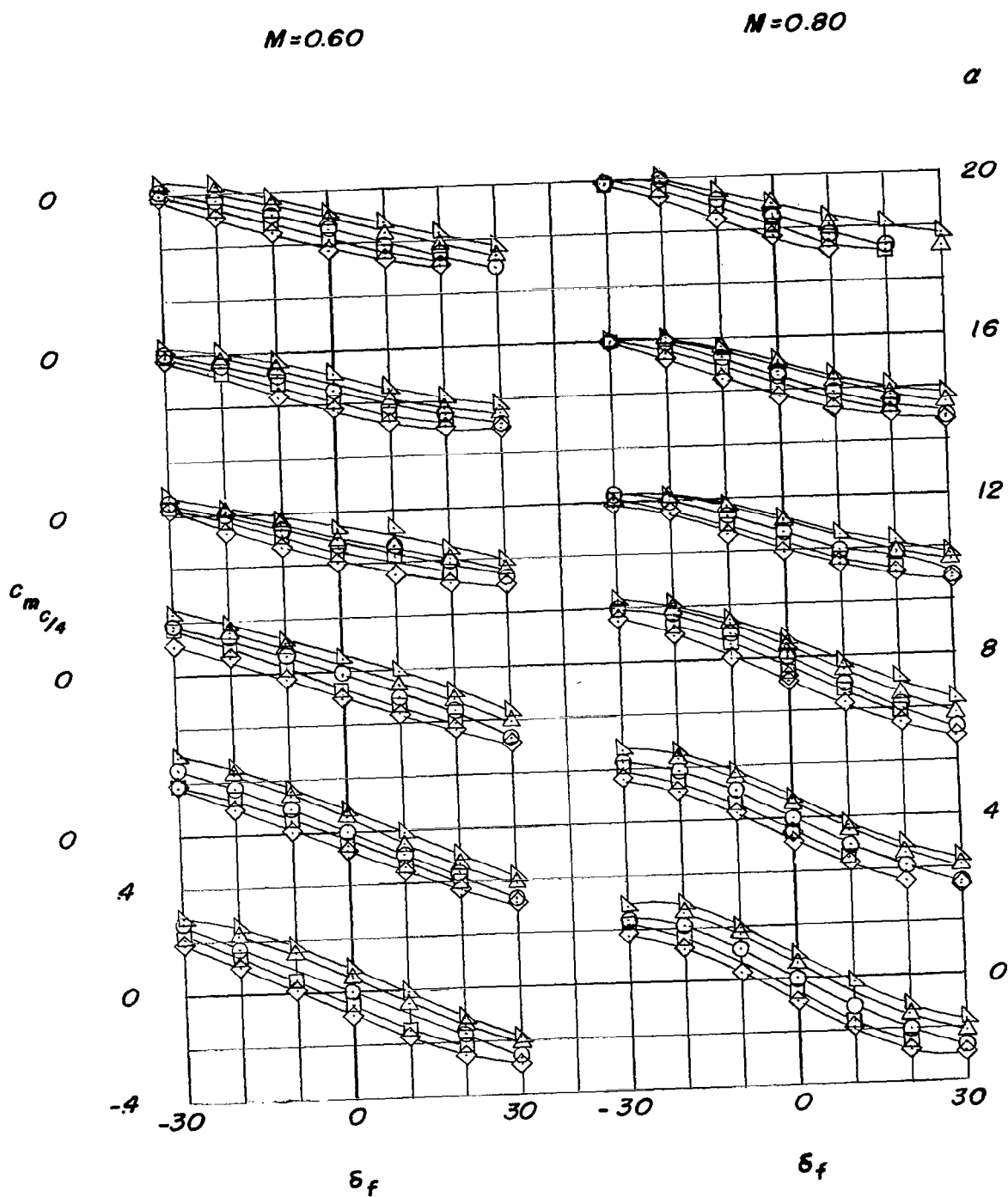


Figure 6.- Variation of section pitching-moment coefficient about wing quarter chord with flap deflection for various tab deflections and angles of attack.

- \diamond 20
- \square 10
- \circ 0
- \triangle -10
- ∇ -20

$M=0.90$

$M=0.93$

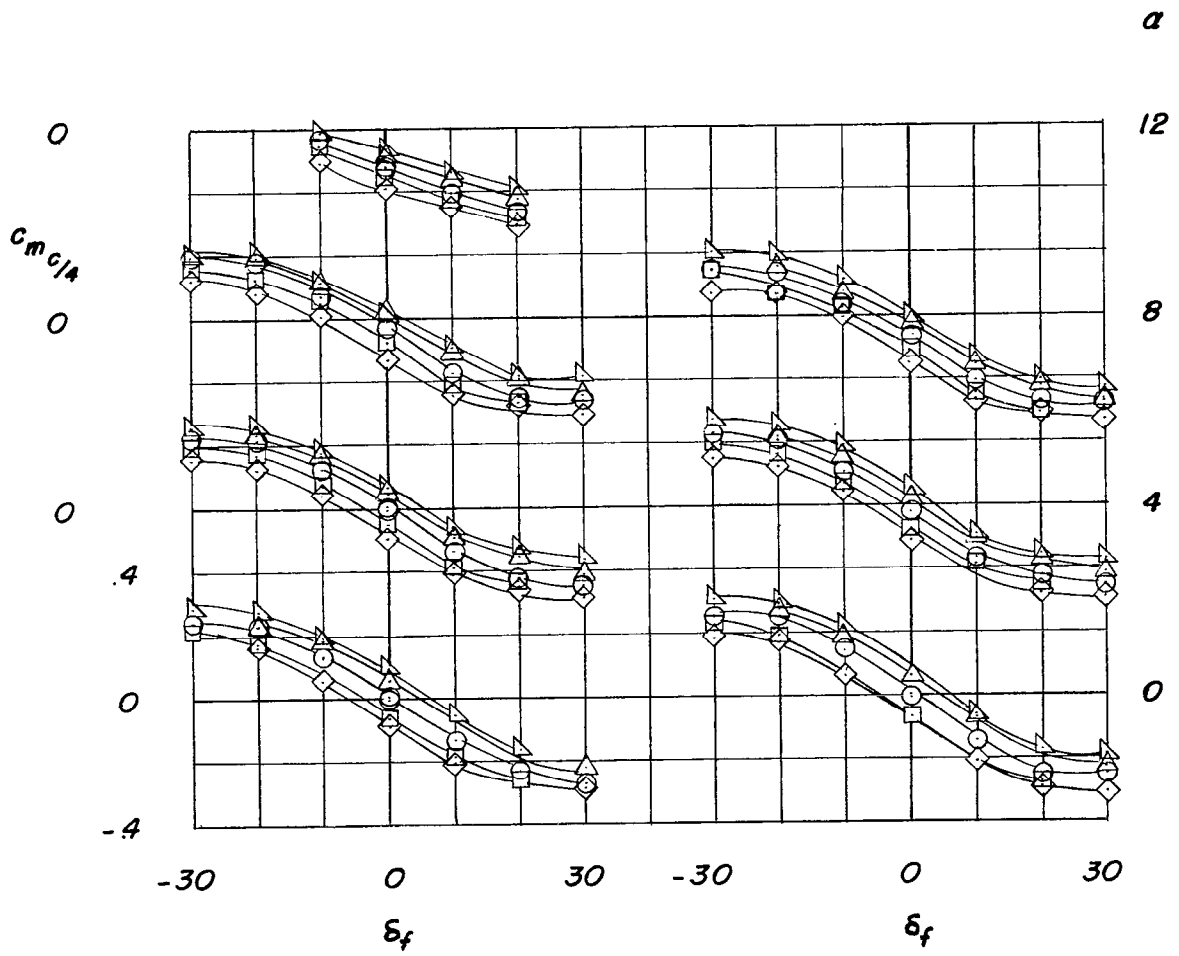


Figure 6.- Concluded.

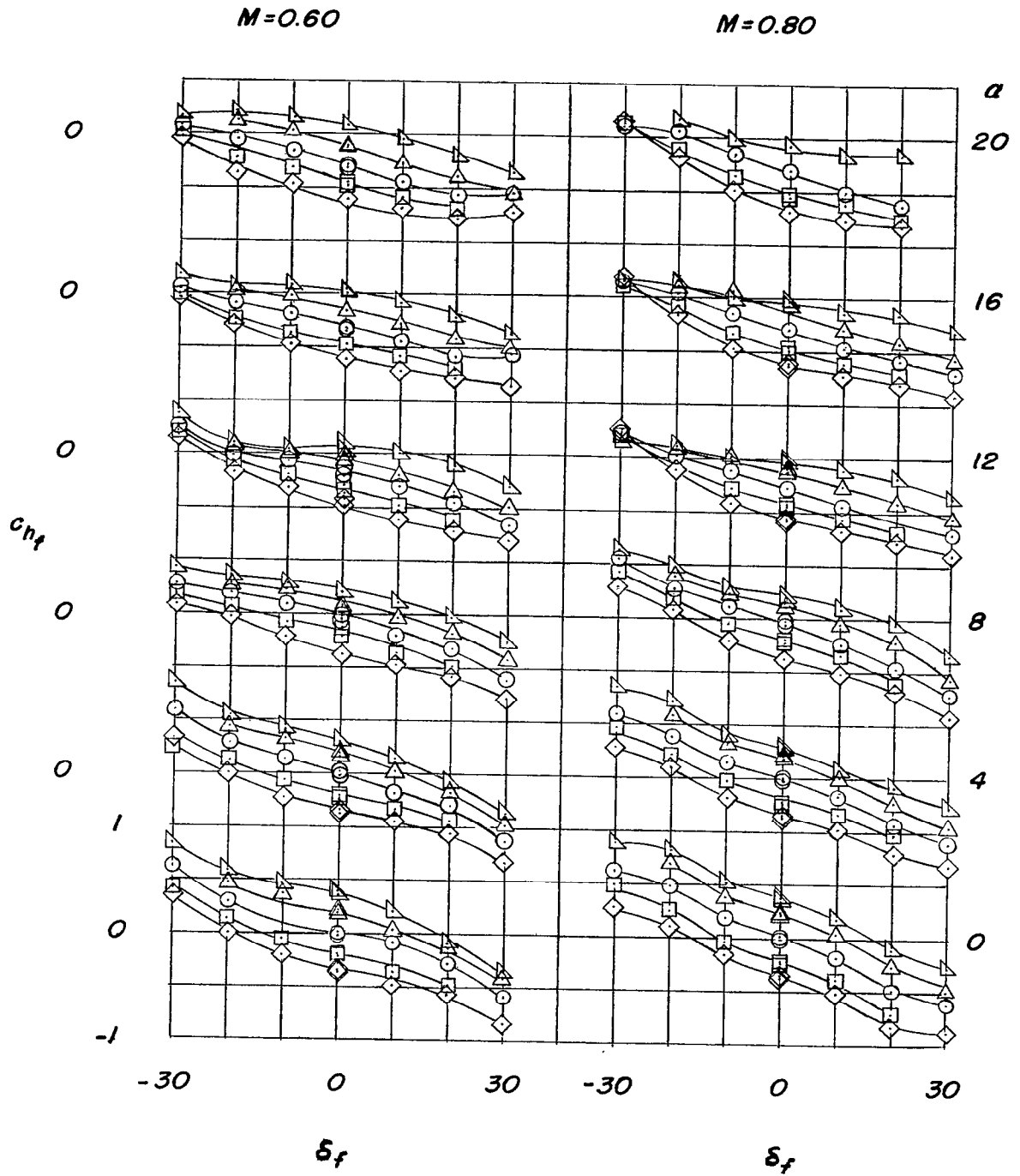


Figure 7.- Variation of section hinge-moment coefficient of flap with flap deflection for various tab deflections and angles of attack.

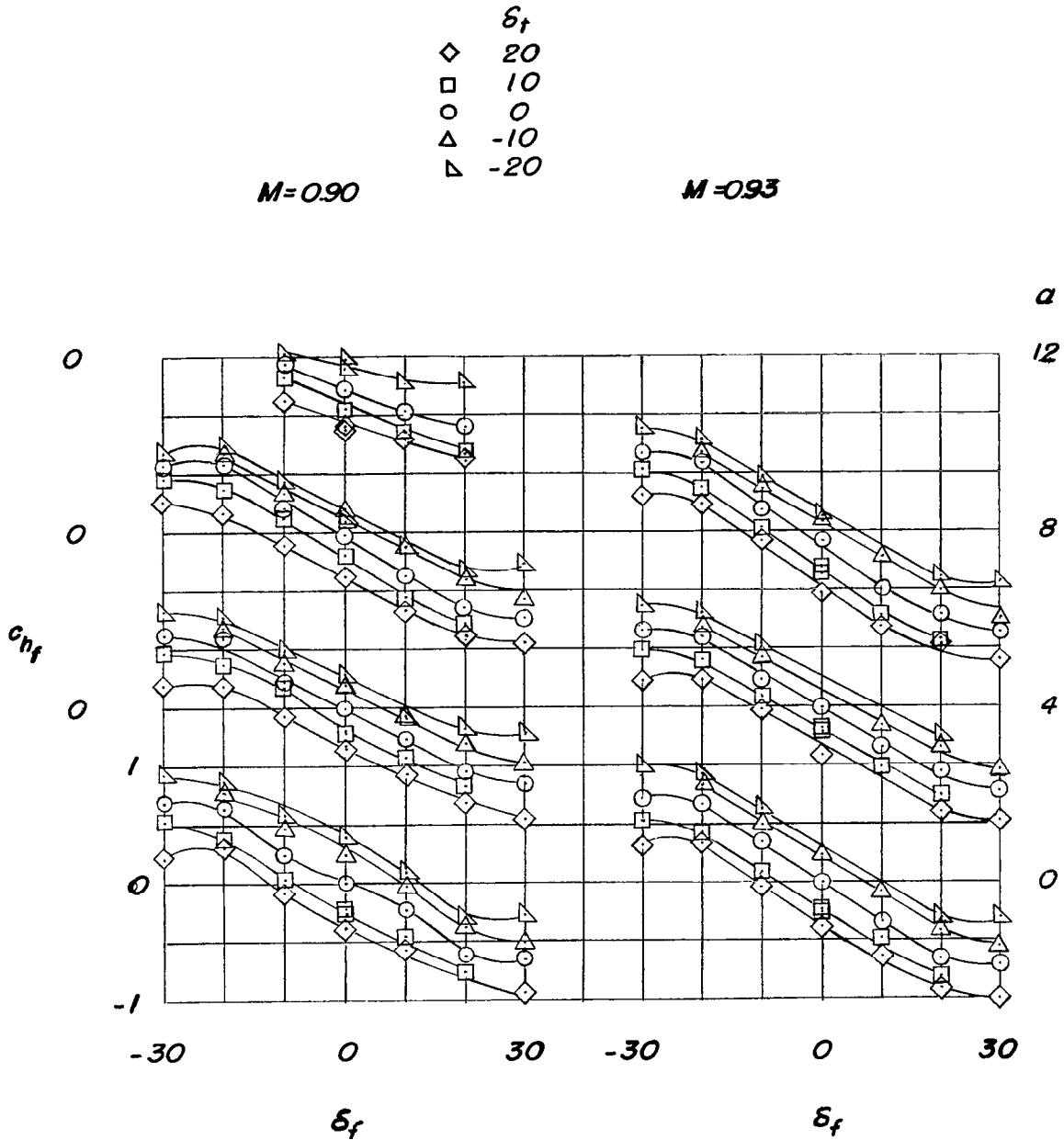


Figure 7.- Concluded.

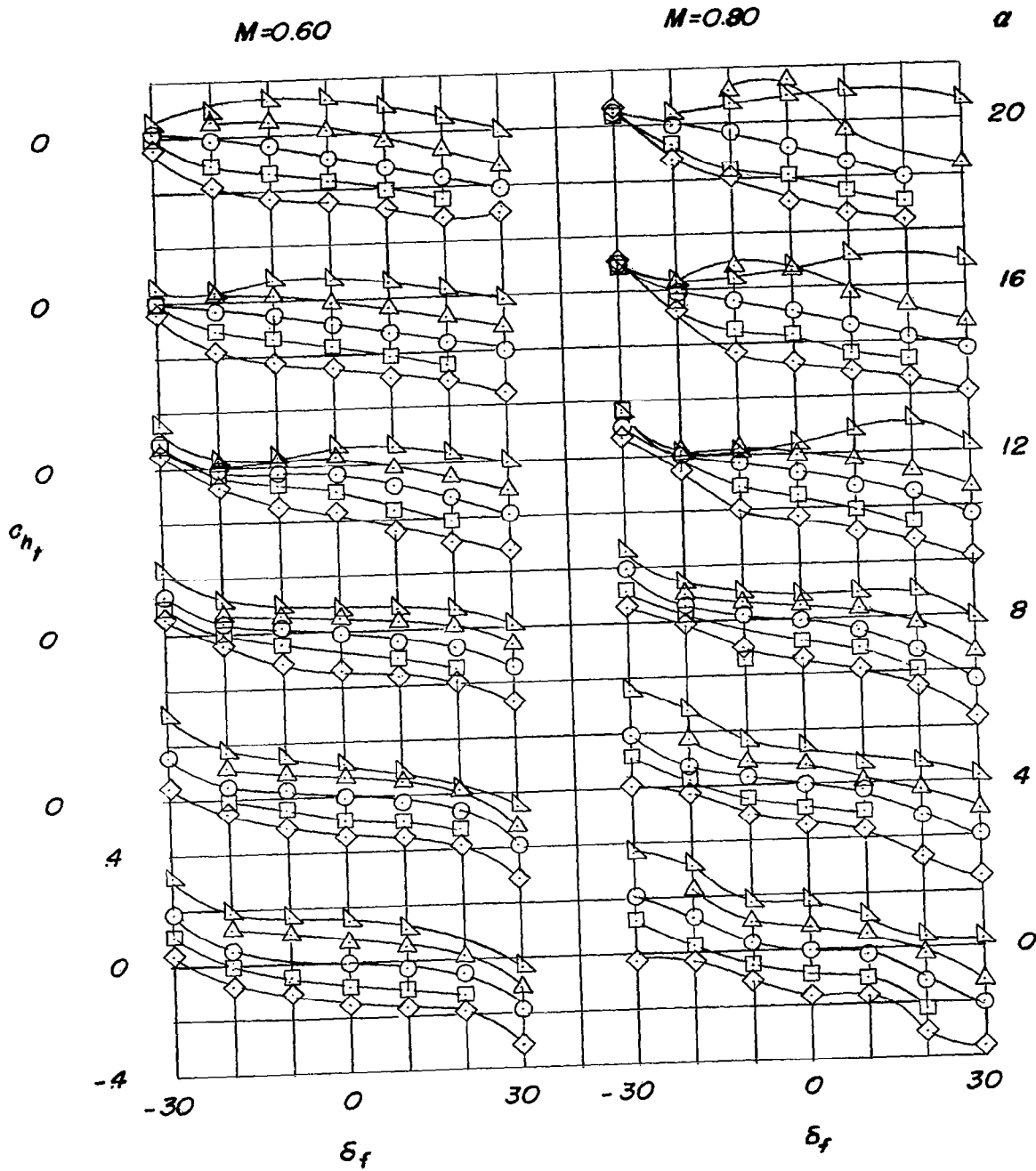


Figure 8.- Variation of section hinge-moment coefficient of tab with flap deflection for various tab deflections and angles of attack.

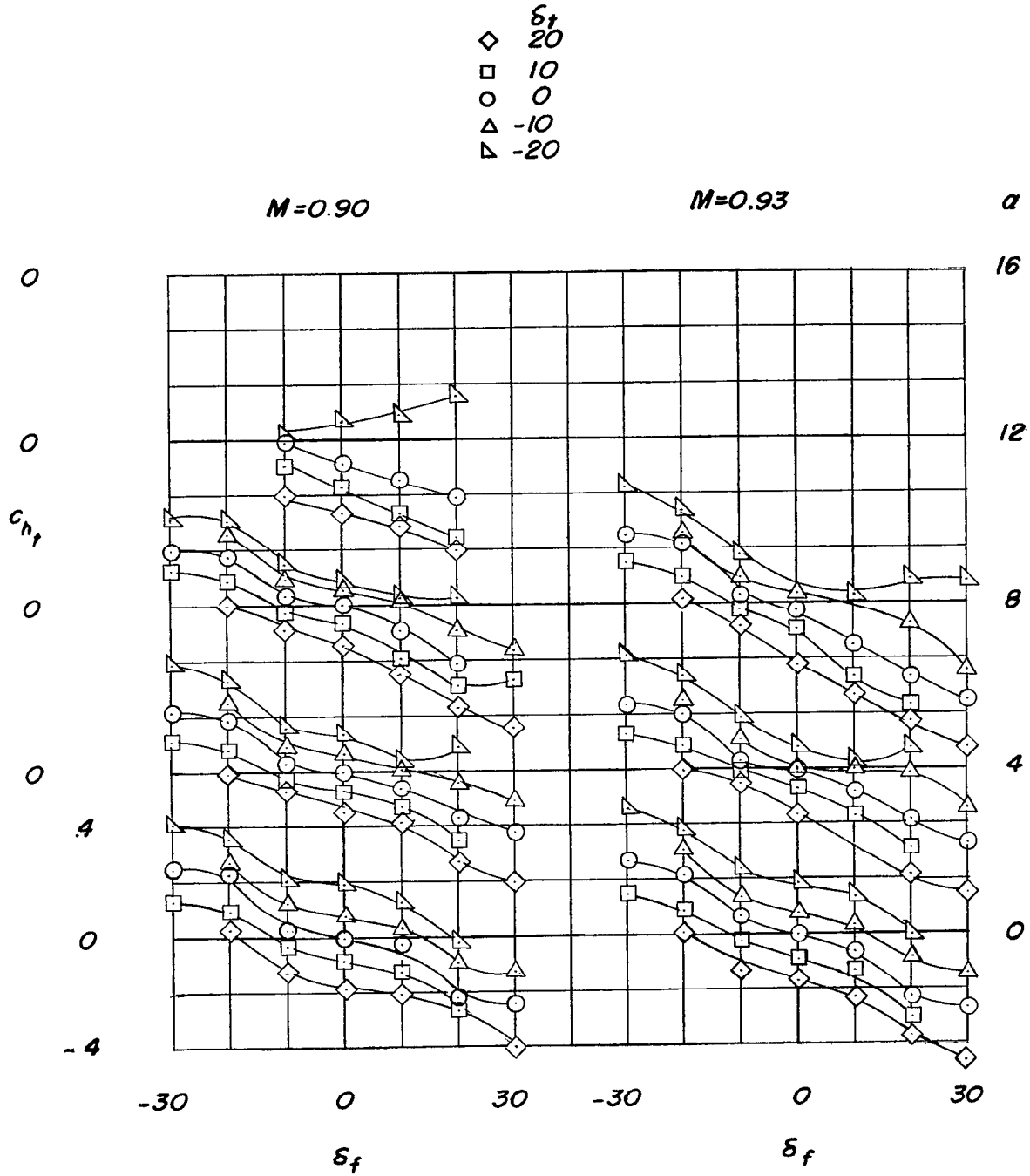


Figure 8.- Concluded.

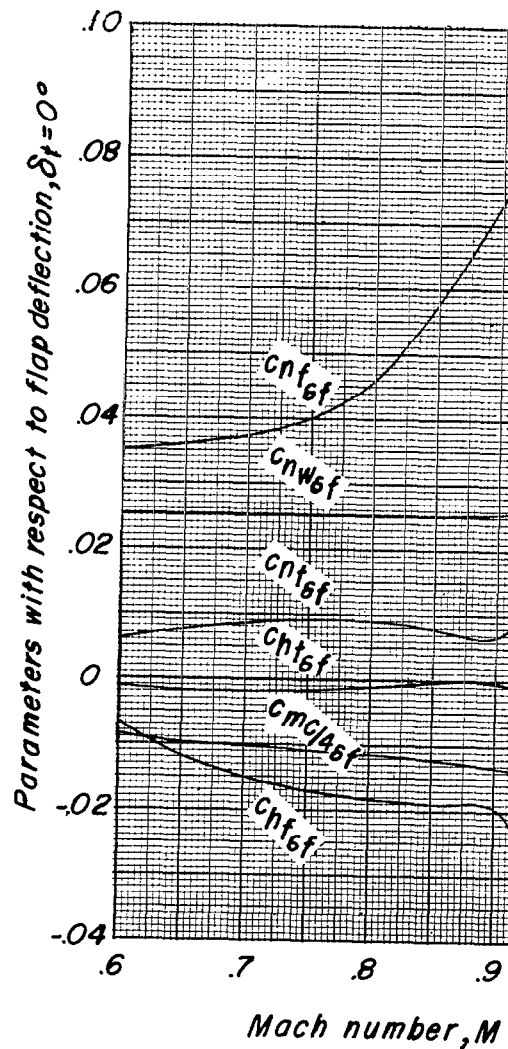
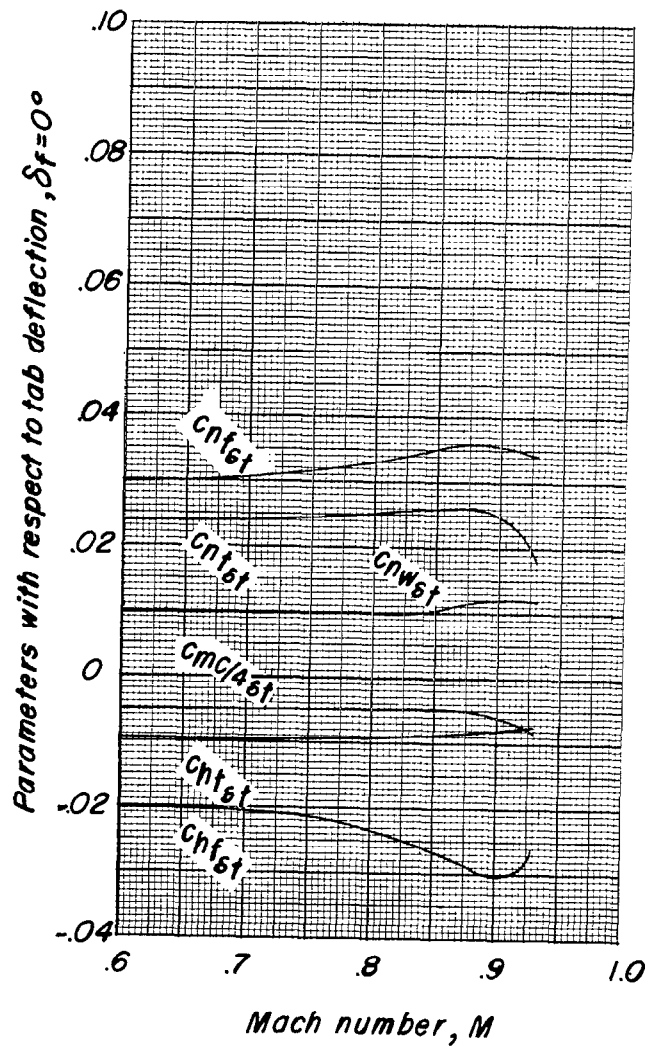


Figure 9.- Variation of section effectiveness and hinge-moment parameters with Mach number.

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