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RESEARCH MEMORANDUM

A COMPILATION OF THE PRESSURES MEASURED ON A WING AND AILERON WITH VARIOUS AMOUNTS OF SWEEP IN THE LANGLEY 8-FOOT HIGH-SPEED TUNNEL

By

Richard T. Whitcomb

Langley Memorial Aeronautical Laboratory
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RESEARCH MEMORANDUM

A COMPILATION OF THE PRESSURES MEASURED ON A WING AND AILERON WITH VARIOUS AMOUNTS OF SWEEP IN THE LANGLEY 8-FOOT HIGH-SPEED TUNNEL

By Richard T. Whitcomb

SUMMARY

A compilation is made in tabular form of all the pressures measured on a thin high-aspect-ratio wing and aileron with no sweep and with 30° and 45° of sweepback and sweepforward at high subsonic Mach numbers in the Langley 8-foot high-speed tunnel.

INTRODUCTION

Very little detailed information as to the aerodynamic loads on swept wings at high subsonic speeds has been available until very recently. In order to obtain some information on such loads, as well as to develop a more complete understanding of the flow around swept wings in this speed range, extensive pressure measurements have been made on the surface of a thin high-aspect-ratio wing with no sweep and with 30° and 45° of sweepback and sweepforward and several aileron deflections in conjunction with a slender midwing fuselage in the Langley 8-foot high-speed tunnel.

From the pressure data obtained, normal-force, pitching-moment, bending-moment, and twisting-moment coefficients, spanwise variations of load and twisting moment, and ratios of the normal-force coefficients for the fuselage to those for the wing have been determined. These results are presented in references 1 and 2. The analyses presented in the references, being limited in extent, did not require reference to the large amount of detailed pressure data obtained during the investigation and none of these data are included in those reports. However, such data is useful in the prediction of the local aerodynamic loads on configurations similar to those investigated at high subsonic Mach numbers. Therefore, the pressure data that were measured on the wing during this investigation at all conditions for which over-all characteristics are given in references 1 and 2 are presented in tabular form herein. As in the case of the over-all characteristics, the data have not been corrected for the small tunnel-wall interference effects and only the results relatively free of wind-tunnel choking effects have been included. No attempt has been made to analyze any of the data presented.

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SYMBOLS

The symbols used are defined as follows:

Λ sweep angle between line perpendicular to plane of symmetry and quarter-chord line of unswept wing, positive for sweepback, negative for sweepforward

δ_{a_n} nominal aileron deflection, measured in plane perpendicular to aileron hinge axis; positive for down deflection

α geometric angle of attack

P pressure coefficient $\left(\frac{p - p_o}{\frac{1}{2}\rho V^2}\right)$

p local static pressure

p_o static pressure in stream

ρ mass density of stream

V velocity of stream

APPARATUS

For the unswept condition the wing model has an NACA 65-210 airfoil section, no twist or dihedral, and exclusive of the fuselage, an aspect ratio of 9.0, and a taper ratio (root chord/tip chord) of 2.5. The 20-percent-chord straight-sided, plain aileron extends from the 60-percent-semispan station to the end of the straight part of the trailing edge as shown in figure 1. Approximately 20 static pressure orifices were placed at each of 8 stations along the semispan in lines perpendicular to the quarter-chord line of the unswept wing as shown in figure 1.

The model was supported in the tunnel by means of a vertical steel plate as described in reference 1. Swept configurations were obtained by rotating the model with respect to the support plate. Revised tips were added for each sweep. Plan forms of the wing outboard of the fuselage with the various amounts of sweep are presented in figure 1. The aspect ratios of the wings outboard of the fuselage are 8.5, 7.0, 4.7, 6.3, and 4.1 for 0°, 30°, 45°, -30°, and -45° of sweep, respectively. Other

dimensions for the various wing configurations and the dimensions of the fuselage are presented in reference 1.

RESULTS

All the pressures measured on the wing for the geometric conditions tabulated in the index preceding the table are presented in pressure coefficient form in tables 1 to 78. Each table presents the pressure coefficients obtained for the upper and lower surfaces of the wing with a given sweep, aileron deflection, and angle of attack at the various test Mach numbers. The data obtained at each of the eight chordwise measurement stations are placed in separate horizontal groups in each table. The designations of the chordwise stations at which the data in a given group were obtained is indicated in the upper left corner of each group in the tables. The spanwise locations of the designated stations from the plane of symmetry along the swept semispan in percent of the swept semispan for each of the sweep angles are indicated in figure 1 and the following table:

Station designation	$\Lambda = 0^\circ$	$\Lambda = 30^\circ$	$\Lambda = 45^\circ$	$\Lambda = -30^\circ$	$\Lambda = -45^\circ$
A	11.0	12.7	14.4	7.6	5.2
B	20.0	21.3	22.9	16.3	14.0
C	30.0	30.9	32.4	26.0	23.7
D	43.0	43.4	44.7	38.6	36.4
E	56.0	55.8	57.0	51.1	49.1
F	64.0	63.5	64.7	58.9	56.9
G	80.0	78.8	79.8	74.4	72.5
H	95.0	93.2	94.0	88.9	87.1

The chordwise locations of the orifice tubes at each of the measurement stations in percent of the local chord are indicated in tables 1 to 78.

In most cases the nominal aileron angles listed are the same as the aileron angles actually present during the tests. For the conditions at which they differ, the actual angles may be obtained from reference 2.

Langley Memorial Aeronautical Laboratory
National Advisory Committee for Aeronautics
Langley Field, Va.

REFERENCES

1. Whitcomb, Richard T.: An Investigation of the Effects of Sweep on the Characteristics of a High-Aspect-Ratio Wing in the Langley 8-Foot High-Speed Tunnel. NACA RM No. L6J01a, 1946.

2. Luoma, Arvo A., Bielat, Ralph P., and Whitcomb, Richard T.: High-Speed Wind-Tunnel Investigation of the Lateral-Control Characteristics of Plain Ailerons on a Wing with Various Amounts of Sweep. NACA RM No. L7I15, 1947.

[redacted]

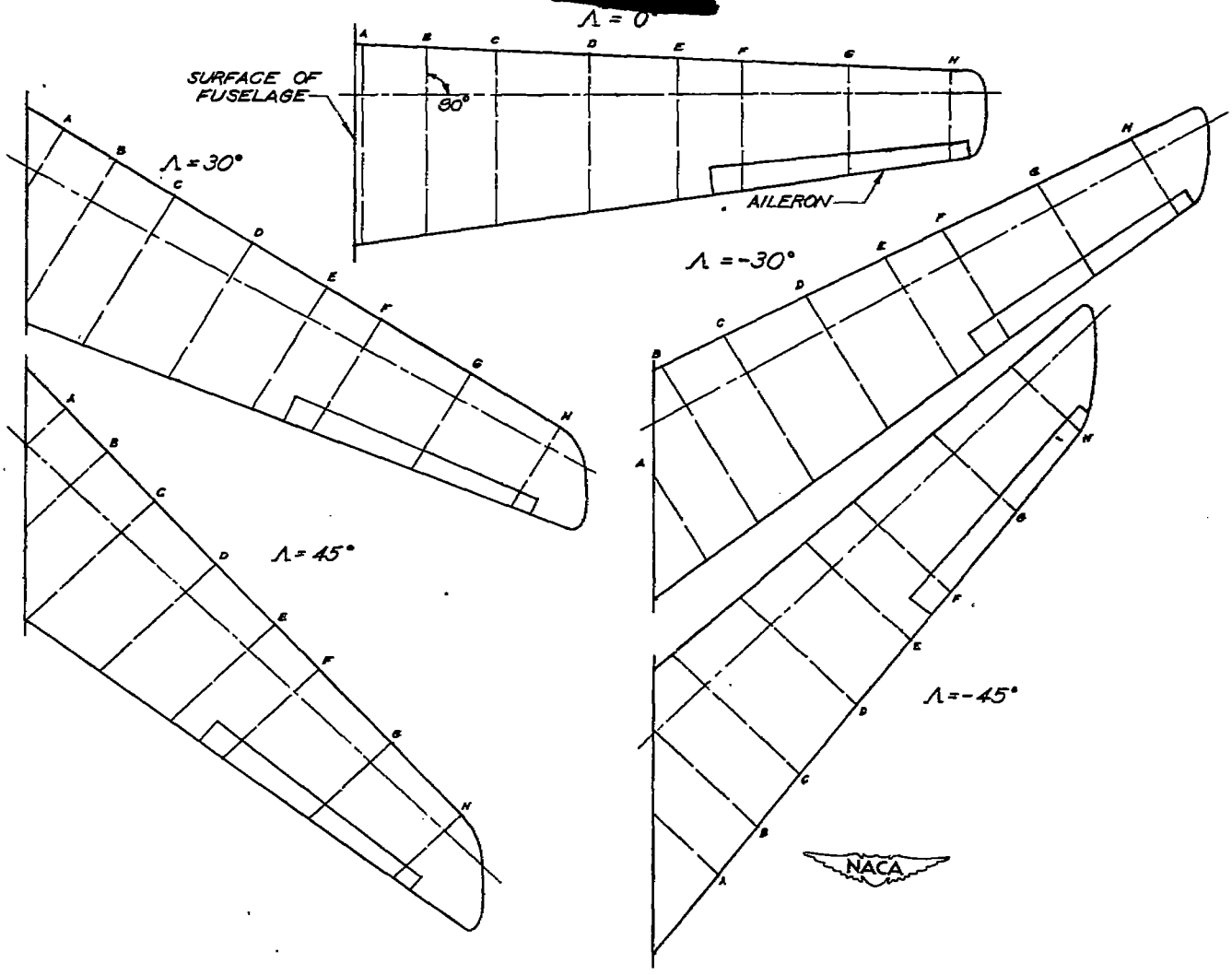

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FIGURE 1.- LOCATION OF ORIFICE STATIONS.

[redacted]

INDEX

[All values are in degrees]

Table	Λ	δ_{a_n}	α	Table	Λ	δ_{a_n}	α
1	0	0	-2	40	30	5.0	4
2	0	0	0	41	30	5.0	7
3	0	0	2	42	30	10.0	-2
4	0	0	4	43	30	10.0	0
5	0	0	7	44	30	10.0	2
6	0	0	10	45	30	10.0	4
7	30	0	-2	46	30	10.0	7
8	30	0	0	47	45	-9.4	-2
9	30	0	2	48	45	-9.4	2
10	30	0	4	49	45	-9.4	7
11	30	0	7	50	45	10.0	-2
12	30	0	10	51	45	10.0	2
13	45	0	-2	52	45	10.0	7
14	45	0	2	53	-30	-10.0	-2
15	45	0	7	54	-30	-10.0	0
16	45	0	10	55	-30	-10.0	2
17	-30	0	-2	56	-30	-10.0	4
18	-30	0	0	57	-30	-10.0	7
19	-30	0	2	58	-30	-5.0	-2
20	-30	0	4	59	-30	-5.0	0
21	-30	0	7	60	-30	-5.0	2
22	-30	0	10	61	-30	-5.0	4
23	-45	0	-2	62	-30	-5.0	7
24	-45	0	2	63	-30	5.0	-2
25	-45	0	7	64	-30	5.0	0
26	-45	0	10	65	-30	5.0	2
27	30	-10.0	-2	66	-30	5.0	4
28	30	-10.0	0	67	-30	5.0	7
29	30	-10.0	2	68	-30	10.0	-2
30	30	-10.0	4	69	-30	10.0	0
31	30	-10.0	7	70	-30	10.0	2
32	30	-5.1	-2	71	-30	10.0	4
33	30	-5.1	0	72	-30	10.0	7
34	30	-5.1	2	73	-45	-10.0	-2
35	30	-5.1	4	74	-45	-10.0	2
36	30	-5.1	7	75	-45	-10.0	7
37	30	5.0	-2	76	-45	9.8	-2
38	30	5.0	0	77	-45	9.8	2
39	30	5.0	2	78	-45	9.8	7

[redacted]

TABLE 1

[$\Lambda = 0^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = -2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.75	0.80			
A 1	2.0	0.430	0.475	0.492			
2	6.0	.125	.160	.178			
3	15.0	-.091	-.088	-.080			
4	27.5	-.208	-.237	-.247			
5	40.0	-.298	-.365	-.420			
6	50.0	-.298	-.366	-.430			
7	59.0	-.250	-.307	-.347			
8	67.5	--	--	--			
9	77.5	-.068	-.080	-.064			
10	87.5	.008	.020	-.027			
11	96.0	.050	.070	-.080			
B12	2.0	.450	.500	-.520			
13	6.0	.120	.162	-.182			
14	15.0	-.109	-.107	-.091			
15	27.5	-.260	-.297	-.308			
16	40.0	-.350	-.431	-.498			
17	50.0	-.355	-.440	-.520			
18	59.0	-.308	-.370	-.438			
19	67.5	-.248	-.330	-.357			
20	77.5	-.080	-.072	-.069			
21	88.0	.058	.074	.082			
22	95.3	.140	.167	.180			
C23	2.0	.454	.510	.530			
24	6.0	.120	.167	.190			
25	15.0	-.117	-.110	-.093			
26	27.5	-.270	-.310	-.320			
27	40.0	-.365	-.464	-.532			
28	50.0	-.358	-.460	-.579			
29	59.0	-.322	-.400	-.493			
30	67.5	-.260	-.350	-.350			
31	77.5	-.087	-.078	-.072			
32	88.0	.041	.060	.078			
33	95.3	.137	.152	.168			
D34	2.0	.390	.448	.565			
35	15.0	-.120	-.110	-.095			
36	27.5	-.272	-.310	-.311			
37	40.0	-.370	-.480	-.548			
38	50.0	-.374	-.486	-.630			
39	59.0	-.290	-.382	-.520			
40	67.5	-.260	-.338	-.321			
41	77.5	-.084	-.078	-.074			
42	87.5	.039	.056	.072			
43	94.2	.126	.150	.169			
E44	2.0	.438	.484	.502			
45	6.0	.109	.147	.172			
46	15.0	-.128	-.126	-.108			
47	27.5	-.272	-.320	-.329			
48	40.0	-.368	-.480	-.541			
49	50.0	-.362	-.477	-.611			
50	59.0	-.315	-.400	-.522			
51	67.5	-.253	-.351	-.438			
52	77.5	-.052	-.030	-.034			
53	88.5	.096	.110	.129			
54	95.5	.150	.178	.199			
F55	2.0	.439	.490	.510			
56	6.0	.110	.142	.167			
57	15.0	-.128	-.128	-.110			
58	27.5	--	--	--			
59	49.0	-.367	-.481	-.543			
60	50.0	-.364	-.475	-.610			
61	59.0	-.306	-.393	-.520			
62	67.5	-.248	-.340	-.428			
63	86.5	.048	.072	.078			
64	94.6	.092	.118	.133			
G65	2.0	.450	.500	.530			
66	6.0	.110	.143	.170			
67	15.0	-.120	-.120	-.106			
68	27.5	-.262	-.317	-.321			
69	40.0	-.349	-.470	-.531			
70	50.0	-.350	-.473	-.590			
71	59.0	-.297	-.382	-.504			
72	67.5	-.240	-.346	-.453			
73	77.5	-.070	-.004	-.006			
74	87.2	.048	.062	.070			
75	96.8	.120	.143	.152			
H76	2.0	.385	.436	.450			
77	6.0	.050	.058	.090			
78	15.0	-.120	-.132	-.130			
79	27.5	--	--	--			
80	40.0	-.322	-.418	-.479			
81	50.0	-.325	-.412	-.482			
82	59.0	-.260	-.330	-.398			
83	67.5	-.217	-.311	-.400			
84	88.3	.038	.048	.050			
85	94.2	.296	.245	.216			

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.75	0.80			
86	3.0	-0.703	-0.800	--			
87	10.0	--	--	--			
88	25.0	-.320	-.410	-.465			
89	41.0	-.300	-.375	-.440			
90	52.5	-.209	-.260	-.279			
91	62.5	-.141	-.163	-.161			
92	72.5	-.079	-.080	-.069			
93	84.0	.045	.056	.065			
94	94.0	.080	.097	.108			
95	3.0	-.652	-.800	-.795			
96	10.0	-.408	-.576	-.760			
97	25.0	-.368	-.460	-.540			
98	41.0	-.343	-.440	-.545			
99	52.5	-.268	-.326	-.333			
100	62.5	-.170	-.191	-.182			
101	72.5	-.050	-.047	-.030			
102	86.3	.090	.110	.131			
103	94.5	.165	.188	.209			
104	3.0	-.639	.000	-.777			
105	10.0	-.425	-.570	-.787			
106	25.0	-.393	-.521	-.641			
107	41.0	-.364	-.480	-.625			
108	52.5	-.295	-.360	-.361			
109	62.5	-.190	-.212	-.193			
110	72.5	-.050	-.042	-.021			
111	85.1	.090	.112	.135			
112	94.6	.187	.211	.238			
113	3.0	-.637	-.800	-.770			
114	10.0	-.430	-.578	-.730			
115	25.0	-.404	-.544	-.685			
116	41.0	-.370	-.500	-.668			
117	52.5	-.298	-.377	-.568			
118	62.5	-.184	-.210	-.152			
119	72.5	-.047	-.041	-.010			
120	87.4	.110	.131	.153			
121	94.2	.164	.191	.220			
122	3.0	-.578	-.714	-.758			
123	10.0	-.420	-.542	-.620			
124	25.0	-.383	-.540	-.660			
125	41.0	-.358	-.474	-.621			
126	52.5	-.270	-.365	-.435			
127	62.5	-.180	-.193	-.260			
128	72.5	-.051	-.045	-.020			
129	78.0	.010	.030	.055			
130	85.5	.102	.132	.155			
131	94.1	.281	.211	.230			
132	3.0	-.610	-.778	-.756			
133	10.0	-.420	-.550	-.632			
134	25.0	-.383	-.529	-.650			
135	41.0	-.350	-.471	-.640			
136	52.5	-.290	-.380	-.420			
137	62.5	-.160	-.173	-.141			
138	72.5	-.030	-.026	.000			
139	83.4	.079	.100	.125			
140	94.0	.127	.154	.272			
141	3.0	-.562	-.692	-.710			
142	10.0	-.421	-.540	-.674			
143	25.0	-.380	-.518	-.632			
144	41.0	-.341	-.454	-.580			
145	52.5	-.278	-.374	-.493			
146	62.5	-.135	-.132	-.101			
147	72.5	-.018	-.012	.009			
148	84.0	.108	.130	.248			
149	92.0	.113	.139	.252			
150	3.0	-.361	-.560	-.590			
151	10.0	-.335	-.426	-.475			
152	25.0	-.328	-.420	-.500			
153	41.0	-.297	-.389	-.460			
154	52.5	-.231	-.300	-.344			
155	62.5	-.130	-.162	-.175			
156	72.5	-.019	-.020	-.010			
157	84.9	.130	.148	.160			

[redacted]

TABLE 2

[$\Lambda = 0^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = 0^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.75	0.80	0.85	0.89	0.925
A 1	2.0	-0.086	0.032	0.088	0.202	0.248	0.270
2	6.0	-.190	-.171	-.140	-.045	.007	.043
3	15.0	-.280	-.311	-.300	-.229	-.178	-.130
4	27.5	-.331	-.398	-.418	-.375	-.348	-.312
5	40.0	-.387	-.494	-.591	-.550	-.501	-.450
6	50.0	-.360	-.459	-.590	-.638	-.590	-.534
7	59.0	.298	-.363	-.416	-.631	-.630	-.650
8	67.5	--	--	--	--	--	--
9	77.5	-.090	-.090	-.081	-.082	.140	.631
10	87.5	-.010	.000	.012	.020	.010	.402
11	96.0	.039	.056	.070	.078	.055	.226
B12	2.0	.030	.111	.176	.280	.328	.360
13	6.0	-.185	-.157	-.110	-.012	.039	.078
14	15.0	-.310	.342	-.318	-.240	-.181	-.131
15	27.5	-.401	-.484	-.494	-.450	-.398	-.350
16	40.0	-.450	-.584	-.660	-.599	-.553	-.502
17	50.0	-.432	-.540	-.702	-.680	-.631	-.608
18	59.0	-.370	-.470	-.641	-.630	-.588	-.703
19	67.5	-.312	-.330	-.213	-.549	-.545	-.696
20	77.5	-.110	-.103	-.080	-.168	-.280	-.652
21	88.0	.045	.065	.086	.048	-.100	-.473
22	95.3	.140	.168	.180	.130	.000	-.361
C23	2.0	.040	.130	.200	.304	.352	.384
24	6.0	-.179	-.141	-.081	.010	.061	.106
25	15.0	-.324	-.351	-.316	-.232	-.171	-.122
26	27.5	-.420	-.514	-.509	-.441	-.390	-.336
27	40.0	-.478	-.643	-.682	-.611	-.558	-.501
28	50.0	-.440	-.577	-.737	-.672	-.619	-.632
29	59.0	-.392	-.514	-.701	-.640	-.593	-.734
30	67.5	-.332	-.329	-.367	-.520	-.491	-.720
31	77.5	-.120	-.110	-.060	-.245	-.308	-.704
32	88.0	.029	.050	.080	-.052	-.179	-.580
33	95.3	.125	.149	.178	.070	-.072	-.402
D34	2.0	-.034	.046	.140	.242	.290	.327
35	15.0	-.330	-.353	-.309	-.222	-.155	-.111
36	27.5	-.412	-.511	-.492	-.420	-.368	-.311
37	40.0	-.485	-.681	-.690	-.611	-.550	-.488
38	50.0	-.460	-.622	-.840	-.735	-.682	-.630
39	59.0	-.368	-.506	-.695	-.660	-.602	-.725
40	67.5	-.280	-.302	-.382	-.483	-.520	-.790
41	77.5	-.128	-.118	-.091	-.245	-.330	-.782
42	87.5	.020	.043	.072	-.080	-.202	-.682
43	94.2	.110	.140	.160	.019	-.128	-.566
E44	2.0	.006	.080	.162	.284	.338	.373
45	6.0	-.206	-.180	-.110	-.007	.050	.091
46	15.0	-.342	-.376	-.331	-.238	-.175	-.125
47	27.5	-.430	-.532	-.513	-.432	-.363	-.322
48	40.0	-.487	-.680	-.699	-.613	-.547	-.490
49	50.0	-.455	-.610	-.756	-.620	-.550	-.633
50	59.0	-.390	-.540	-.710	-.610	-.542	-.681
51	67.5	-.340	-.390	-.618	-.532	-.491	-.701
52	77.5	-.082	-.082	-.060	-.272	-.291	-.669
53	88.5	.076	.099	.113	-.097	-.182	-.582
54	95.5	.140	.169	.182	.000	-.113	-.500
F55	2.0	.000	.080	.168	.280	.330	.368
56	6.0	-.210	-.180	-.114	-.008	.048	.090
57	15.0	-.342	-.380	-.332	-.240	-.180	-.132
58	27.5	--	--	--	--	--	--
59	40.0	-.487	-.672	-.702	-.617	-.550	-.492
60	50.0	-.451	-.603	-.741	-.607	-.540	-.638
61	59.0	-.380	-.534	-.703	-.600	-.535	-.690
62	67.5	-.327	-.383	-.628	-.547	-.498	-.711
63	88.5	.025	.047	.080	-.120	-.203	-.641
64	94.8	.088	.120	.149	-.005	-.120	-.528
G65	2.0	.030	.110	.195	.310	.353	.390
66	6.0	-.197	-.172	-.110	-.008	.043	.085
67	15.0	-.321	-.358	-.317	-.228	-.173	-.126
68	27.5	-.408	-.509	-.500	-.428	-.370	-.320
69	40.0	-.470	-.632	-.678	-.599	-.550	-.482
70	50.0	-.440	-.569	-.693	-.567	-.500	-.630
71	59.0	-.363	-.502	-.661	-.562	-.503	-.672
72	67.5	-.332	-.475	-.647	-.525	-.466	-.680
73	77.5	-.050	-.040	-.031	-.278	-.312	-.682
74	87.2	.032	.050	.086	-.104	-.208	-.541
75	96.8	.113	.142	.165	.028	-.101	-.432
H76	2.0	.049	.100	.162	.258	.298	.332
77	6.0	-.188	-.191	-.158	-.081	-.040	.000
78	15.0	-.268	-.308	-.300	-.247	-.208	-.164
79	27.5	--	--	--	--	--	--
80	40.0	-.391	-.500	-.577	-.588	-.561	-.521
81	50.0	-.378	-.474	-.591	-.593	-.519	-.650
82	59.0	-.309	-.401	-.500	-.558	-.510	-.665
83	67.5	-.247	-.301	-.271	-.550	-.530	-.634
84	88.3	.030	.040	.053	.027	-.170	-.534
85	94.2	.267	.216	.198	.204	-.046	-.376

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.75	0.80	0.85	0.89	0.925
86	3.0	-0.141	-0.163	-0.175	-0.230	-0.181	-0.110
87	10.0	--	--	--	--	--	--
88	25.0	-.202	-.252	-.293	-.372	-.356	-.300
89	41.0	-.230	-.285	-.335	.520	-.508	-.440
90	52.5	-.160	-.200	-.230	-.492	-.552	-.491
91	62.5	-.108	-.125	-.134	-.183	-.662	-.602
92	72.5	-.059	-.059	-.051	-.070	-.380	-.620
93	84.0	.070	.084	.190	.071	-.065	-.513
94	94.0	.100	.119	.127	.119	-.036	-.259
95	3.0	-.151	-.172	-.184	-.220	-.160	-.085
96	10.0	-.165	-.197	-.210	-.237	-.202	-.142
97	25.0	-.249	-.310	-.350	-.451	-.420	-.353
98	41.0	-.265	-.335	-.400	-.558	-.529	-.475
99	52.5	-.215	-.268	-.306	-.660	-.658	-.585
100	62.5	-.138	-.152	-.159	-.231	-.750	-.675
101	72.5	-.020	-.019	-.014	-.020	-.571	-.660
102	86.3	.113	.140	.157	.135	-.091	-.640
103	94.5	.189	.215	.225	.200	.062	-.330
104	3.0	-.143	-.163	-.180	-.202	-.145	-.079
105	10.0	-.192	-.236	-.264	-.290	-.240	-.175
106	25.0	-.259	-.329	-.385	-.481	-.430	-.358
107	41.0	-.281	-.360	-.441	-.604	-.580	-.511
108	52.5	-.240	-.300	-.350	-.660	-.691	-.626
109	62.5	-.159	-.182	-.192	-.452	-.700	-.705
110	72.5	-.013	-.010	-.008	-.055	-.650	-.705
111	85.1	.110	.139	.156	.120	-.319	-.654
112	94.6	.210	.240	.248	.202	-.038	-.473
113	3.0	-.150	-.179	-.200	-.221	-.160	-.090
114	10.0	-.180	-.220	-.250	-.268	-.211	-.150
115	25.0	-.262	-.341	-.410	-.500	-.440	-.370
116	41.0	-.281	-.369	-.451	-.620	-.580	-.510
117	52.5	-.231	-.299	-.359	-.571	-.690	-.618
118	62.5	-.172	-.240	-.290	-.570	-.701	-.720
119	72.5	.020	.025	.022	-.212	-.680	-.711
120	87.4	.130	.160	.179	-.079	-.441	-.652
121	94.2	.180	.213	.220	.140	-.189	-.590
122	3.0	-.195	-.110	-.026	-.168	-.119	-.050
123	10.0	-.170	-.202	-.228	-.255	-.210	-.150
124	25.0	-.248	-.320	-.374	-.467	-.418	-.350
125	41.0	-.265	-.341	-.412	-.602	-.560	-.500
126	52.5	-.207	-.262	-.320	-.590	-.661	-.591
127	62.5	-.150	-.190	-.220	-.559	-.730	-.680
128	72.5	-.020	-.010	-.010	-.091	-.703	-.709
129	78.0	.041	.059	.060	.011	-.680	-.666
130	85.3	.130	.158	.160	.100	-.483	-.640
131	94.1	.195	.229	.230	.155	-.130	-.546
132	3.0	-.120	-.138	-.154	-.201	-.143	-.080
133	10.0	-.168	-.200	-.225	-.254	-.207	-.147
134	25.0	-.242	-.312	-.374	-.461	-.409	-.341
135	41.0	-.260	-.333	-.405	-.599	-.560	-.494
136	52.5	-.218	-.270	-.321	-.550	-.682	-.618
137	62.5	-.152	-.211	-.274	-.540	-.724	-.702
138	72.5	.031	.059	.055	-.171	-.690	-.685
139	83.4	.110	.131	.140	.071	-.595	-.628
140	94.0	.138	.161	.161	.090	-.190	-.570
141	3.0	-.100	-.101	-.121	-.161	-.104	-.041
142	10.0	-.187	-.220	-.248	-.282	-.233	-.180
143	25.0	-.250	-.320	-.385	-.464	-.410	-.341
144	41.0	-.261	-.337	-.408	-.608	-.570	-.505
145	52.5	-.210	-.261	-.322	-.543	-.694	-.629
146	62.5	-.149	-.205	-.263	-.518	-.679	-.698
147	72.5	.040	.049	.048	-.140	-.661	-.689
148	84.0	.130	.155	.159	.085	-.590	-.620
149	92.0	.122	.147	.147	.071	-.261	-.555
150	3.0	-.105	-.100	-.110	-.146	-.102	-.052
151	10.0	-.174	-.200	-.221	-.250	-.210	-.160
152	25.0	-.240	-.299	-.348	-.448	-.420	-.362
153	41.0	-.259	-.320	-.378	-.538	-.533	-.515
154	52.5	-.212	-.269	-.311	-.524	-.621	-.580
155	62.5	-.140	-.181	-.212	-.341	-.619	-.600
156	72.5	-.008	.001	-.010	-.093	-.528	-.585
157	84.9	.117	.133	.139	.130	.005	-.265

[redacted]

TABLE 3

[$\Lambda = 0^\circ$, $\delta_{e_n} = 0^\circ$, $\alpha = 2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Per-cent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	
A 1	2.0	-0.657	-0.461	-0.231	-0.128	-0.061	
2	6.0	-.560	-.534	-.369	-.280	-.213	
3	15.0	-.485	-.528	-.412	-.331	-.250	
4	27.5	-.452	-.548	-.583	-.419	-.450	
5	40.0	-.468	-.740	-.682	-.616	-.545	
6	50.0	-.421	-.731	-.728	-.671	-.620	
7	59.0	-.335	-.431	-.650	-.645	-.721	
8	67.5	--	--	--	--	--	
9	77.5	-.111	-.037	-.130	-.182	-.679	
10	87.5	-.022	-.002	-.021	-.063	-.441	
11	96.0	.030	.050	.040	.000	-.290	
B12	2.0	-.543	-.270	-.081	.027	.090	
13	6.0	-.558	-.477	-.306	-.118	-.150	
14	15.0	-.549	-.550	-.422	-.342	-.279	
15	27.5	-.558	-.740	-.630	-.550	-.468	
16	40.0	-.560	-.842	-.760	-.690	-.622	
17	50.0	-.510	-.775	-.690	-.630	-.710	
18	59.0	-.450	-.751	-.688	-.628	-.760	
19	67.5	-.258	-.301	-.448	-.444	-.749	
20	77.5	-.140	-.088	-.256	-.318	-.687	
21	88.0	.030	.068	-.102	-.220	-.533	
22	95.3	.131	.150	-.020	-.150	-.445	
C23	2.0	-.530	-.218	-.019	.070	.140	
24	6.0	-.541	-.406	-.244	-.161	-.092	
25	15.0	-.557	-.540	-.406	-.328	-.253	
26	27.5	-.580	-.739	-.618	-.540	-.464	
27	40.0	-.591	-.871	-.752	-.678	-.612	
28	50.0	-.530	-.795	-.688	-.619	-.722	
29	59.0	-.474	-.792	-.661	-.610	-.790	
30	67.5	-.260	-.434	-.447	-.430	-.773	
31	77.5	-.152	-.162	-.319	-.335	-.738	
32	88.0	.009	.006	-.198	-.260	-.632	
33	95.3	.116	.098	-.094	-.180	-.522	
D34	2.0	-.611	-.296	-.090	.000	.073	
35	15.0	-.552	-.530	-.392	-.315	-.242	
36	27.5	-.577	-.717	-.592	-.517	-.440	
37	40.0	-.605	-.876	-.753	-.675	-.598	
38	50.0	-.555	-.831	-.714	-.670	-.730	
39	59.0	-.441	-.732	-.320	-.619	-.804	
40	67.5	-.305	-.438	-.432	-.463	-.842	
41	77.5	-.151	-.212	-.318	-.360	-.820	
42	87.5	.004	-.044	-.217	-.290	-.711	
43	94.2	.099	.037	-.154	-.240	-.628	
E44	2.0	-.616	-.261	-.042	.060	.137	
45	6.0	-.600	-.450	-.280	-.180	-.108	
46	15.0	-.589	-.560	-.418	-.335	-.261	
47	27.5	-.600	-.740	-.605	-.520	.447	
48	40.0	-.610	-.831	-.714	-.648	-.600	
49	50.0	-.550	-.771	-.662	-.590	-.708	
50	59.0	-.484	-.752	-.647	-.595	-.720	
51	67.5	-.320	-.480	-.480	-.456	-.700	
52	77.5	-.130	-.245	-.352	-.350	-.687	
53	88.5	.056	-.073	-.250	-.280	-.610	
54	95.5	.140	.016	-.176	-.230	-.548	
F55	2.0	-.617	-.260	-.048	.049	.120	
56	6.0	-.599	-.450	-.268	-.180	-.108	
57	15.0	-.586	-.567	-.420	-.340	-.268	
58	27.5	--	--	--	--	--	
59	49.0	-.602	-.810	-.693	-.631	-.600	
60	50.0	-.542	-.756	-.650	-.580	-.712	
61	59.0	-.472	-.748	-.621	-.574	-.731	
62	67.5	-.300	-.478	-.457	-.443	-.731	
63	86.5	.005	-.098	-.262	-.300	-.668	
64	94.6	.141	.009	-.180	-.245	-.580	
G65	2.0	-.550	-.228	-.012	.077	.149	
66	6.0	-.570	-.451	-.281	-.190	-.117	
67	15.0	-.550	-.549	-.409	-.330	-.260	
68	27.5	-.557	-.720	-.600	-.521	-.450	
69	40.0	-.572	-.790	-.651	-.601	-.593	
70	50.0	-.520	-.720	-.617	-.562	-.696	
71	59.0	-.450	-.741	-.596	-.555	-.705	
72	67.5	-.332	-.508	-.453	-.446	-.710	
73	77.5	-.094	-.202	-.340	-.360	-.690	
74	87.2	.015	-.026	-.231	-.293	-.583	
75	96.8	.111	.080	-.111	-.202	-.497	
H76	2.0	-.392	-.210	-.032	.043	.110	
77	6.0	-.463	-.470	-.332	-.262	-.195	
78	15.0	-.420	-.494	-.413	-.360	-.307	
79	27.5	--	--	--	--	--	
80	40.0	-.456	-.686	-.671	-.640	-.596	
81	50.0	-.424	-.695	-.611	-.581	-.702	
82	59.0	-.355	-.600	-.605	-.590	-.698	
83	67.5	-.218	-.227	-.600	-.606	-.672	
84	88.3	.018	.018	-.016	-.195	-.568	
85	94.2	.236	.175	.180	.009	-.391	

LOWER SURFACE							
Tube	Per-cent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	
86	3.0	0.260	0.227	0.155	0.162	0.204	
87	10.0	--	--	--	--	--	
88	25.0	-.080	-.145	-.210	-.201	-.152	
89	41.0	-.151	-.240	-.390	-.409	-.347	
90	52.5	-.102	-.179	-.324	-.460	-.409	
91	62.5	-.070	-.110	-.180	-.372	-.520	
92	72.5	-.033	-.049	-.093	-.432	-.550	
93	84.0	.100	.106	.070	-.052	-.479	
94	94.0	.118	.130	.109	.035	-.250	
95	3.0	.248	.207	.240	.153	.198	
96	10.0	.060	.030	-.019	.005	.050	
97	25.0	-.110	-.185	-.251	-.240	-.192	
98	41.0	-.180	-.289	-.440	-.430	-.369	
99	52.5	-.160	-.250	-.459	-.571	-.509	
100	62.5	-.100	-.159	-.313	-.645	-.599	
101	72.5	.029	.025	-.025	-.357	-.580	
102	86.3	.139	.150	.108	-.095	-.552	
103	94.5	.207	.222	.156	.095	-.270	
104	3.0	.351	.200	.139	.157	.195	
105	10.0	.045	-.001	-.048	-.021	.022	
106	25.0	-.119	-.205	-.271	-.255	-.210	
107	41.0	-.184	-.311	-.470	-.449	-.368	
108	52.5	-.165	-.259	-.493	-.585	-.519	
109	62.5	-.105	-.200	-.450	-.660	-.615	
110	72.5	.017	.050	.008	-.613	-.622	
111	85.1	.135	.139	.092	-.371	-.565	
112	94.6	.235	.247	.160	.030	-.360	
113	3.0	.249	.180	.115	.140	.178	
114	10.0	.059	.000	-.042	-.011	.030	
115	25.0	-.119	-.220	-.290	-.264	-.220	
116	41.0	-.181	-.329	-.481	-.445	-.390	
117	52.5	-.157	-.271	-.525	-.580	-.515	
118	62.5	-.100	-.209	-.475	-.680	-.623	
119	72.5	-.010	.019	-.103	-.632	-.618	
120	87.4	.159	.155	.110	-.541	-.561	
121	94.2	.195	.180	.100	-.202	-.461	
122	3.0	.302	.238	.165	.180	.210	
123	10.0	.070	.018	-.032	-.011	.030	
124	25.0	-.098	-.191	-.269	-.251	-.210	
125	41.0	-.162	-.299	-.460	-.436	-.382	
126	52.5	-.130	-.240	-.483	-.547	-.488	
127	62.5	-.090	-.194	-.409	-.650	-.588	
128	72.5	-.005	-.053	-.060	-.635	-.620	
129	78.0	.071	.040	-.002	-.609	-.605	
130	85.3	.159	.131	.079	-.471	-.560	
131	94.1	.212	.185	.100	-.122	-.352	
132	3.0	.287	.216	.140	.157	.190	
133	10.0	.074	.020	-.030	-.010	.031	
134	25.0	-.094	-.190	-.265	-.250	-.210	
135	41.0	-.154	-.291	-.450	-.430	-.375	
136	52.5	-.140	-.255	-.476	-.572	-.522	
137	62.5	-.075	-.189	-.421	-.660	-.612	
138	72.5	-.013	-.050	-.050	-.610	-.592	
139	83.4	.045	.119	.075	-.541	-.530	
140	94.0	.050	.091	.005	-.201	-.480	
141	3.0	.290	.235	.161	.181	.218	
142	10.0	.049	-.005	-.055	-.030	.008	
143	25.0	-.101	-.210	-.284	-.265	-.223	
144	41.0	-.168	-.310	-.470	-.445	-.391	
145	52.5	-.135	-.256	-.485	-.591	-.532	
146	62.5	-.080	-.190	-.440	-.658	-.612	
147	72.5	-.005	.040	-.010	-.607	-.610	
148	84.0	.165	.140	.082	-.437	-.531	
149	92.0	.140	.100	.008	-.152	-.440	
150	3.0	.210	.193	.137	.150	.180	
151	10.0	.004	-.030	-.070	-.050	-.013	
152	25.0	-.142	-.231	-.304	-.311	-.275	
153	41.0	-.198	-.312	-.445	-.450	-.421	
154	52.5	-.170	-.270	-.430	-.560	-.520	
155	62.5	-.110	-.211	-.360	-.540	-.551	
156	72.5	-.040	-.033	-.010	-.478	-.535	
157	84.9	.109	.105	.087	.025	-.296	

NACA

[redacted]

TABLE 4

$[\Lambda = 0^\circ, \delta_{a_n} = 0^\circ, \alpha = 4^\circ]$

[redacted]

UPPER SURFACE

Tube	Percent chord	Mach Number 0.60	0.75	0.80	0.85	0.89	0.925
A 1	2.0	-1.655	-1.408	-1.040	-0.731	-0.961	-0.443
2	6.0	-.866	-1.365	-1.083	-.815	-.658	-.540
3	15.0	-.684	-1.043	-.896	-.690	-.569	-.470
4	27.5	-.572	-.761	-.936	-.802	-.698	-.611
5	40.0	-.548	-.732	-.908	-.821	-.730	-.650
6	50.0	-.469	-.560	-.718	-.828	-.770	-.705
7	59.0	-.362	-.390	-.382	-.603	-.721	-.804
8	67.5	--	--	--	--	--	--
9	77.5	-.128	-.109	-.130	-.181	-.280	-.800
10	87.5	-.038	-.020	-.036	-.081	-.171	-.570
11	96.0	.012	.021	.012	-.020	-.110	-.421
B12	2.0	-1.322	-1.016	-.711	-.440	-.293	-.190
13	6.0	-1.008	-1.160	-.891	-.650	-.511	-.405
14	15.0	-.756	-1.155	-.940	-.731	-.610	-.510
15	27.5	-.688	-1.122	-1.042	-.863	-.748	-.648
16	40.0	-.645	-.905	-.960	-.802	-.742	-.725
17	50.0	-.569	-.605	-.856	-.771	-.719	-.810
18	59.0	-.450	-.453	-.530	-.562	-.648	-.858
19	67.5	-.310	-.290	-.342	-.460	-.498	-.861
20	77.5	-.155	-.128	-.198	-.376	-.424	-.801
21	88.0	.010	.050	-.060	-.280	-.362	-.710
22	95.3	.095	.140	.018	-.200	-.312	-.617
C23	2.0	-1.287	-.938	-.640	-.375	-.240	-.130
24	6.0	-.981	-1.110	-.832	-.580	-.442	-.338
25	15.0	-.800	-1.075	-.853	-.651	-.538	-.441
26	27.5	-.730	-1.165	-.991	-.817	-.708	-.611
27	40.0	-.690	-1.080	-.920	-.764	-.711	-.743
28	50.0	-.600	-.995	-.802	-.720	-.696	-.808
29	59.0	-.500	-.425	-.590	-.552	-.600	-.912
30	67.5	-.328	-.253	-.450	-.460	-.491	-.871
31	77.5	-.176	-.115	-.320	-.404	-.440	-.850
32	88.0	-.003	.036	-.190	-.340	-.392	-.780
33	95.3	.102	.100	-.130	-.293	-.358	-.617
D34	2.0	-1.330	-1.020	-.748	-.481	-.340	-.222
35	15.0	-.804	-1.060	-.832	-.627	-.511	-.413
36	27.5	-.732	-1.120	-.950	-.770	-.668	-.560
37	40.0	-.712	-1.138	-.940	-.800	-.756	-.712
38	50.0	-.620	-1.068	-.855	-.747	-.723	-.830
39	59.0	-.479	-.582	-.591	-.571	-.639	-.825
40	67.5	-.330	-.312	-.470	-.475	-.536	-.921
41	77.5	-.169	-.118	-.332	-.408	-.467	-.918
42	87.5	-.006	.030	-.212	-.350	-.412	-.858
43	94.2	.082	.110	-.150	-.308	-.379	-.805
E44	2.0	-1.420	-1.018	-.692	-.402	-.235	-.141
45	6.0	-1.088	-1.160	-.890	-.638	-.498	-.381
46	15.0	-.820	-1.140	-.919	-.692	-.570	-.466
47	27.5	-.749	-1.160	-.971	-.796	-.690	-.591
48	40.0	-.710	-1.078	-.892	-.736	-.662	-.723
49	50.0	-.629	-1.070	-.825	-.732	-.667	-.800
50	59.0	-.488	-.618	-.584	-.580	-.609	-.830
51	67.5	-.337	-.308	-.468	-.486	-.501	-.850
52	77.5	-.152	-.103	-.352	-.422	-.442	-.798
53	88.5	.020	.032	-.250	-.374	-.418	-.750
54	95.5	.100	.100	-.182	-.340	-.398	-.713
F55	2.0	-1.422	-1.020	-.716	-.430	-.283	-.170
56	6.0	-1.068	-1.161	-.890	-.630	-.490	-.373
57	15.0	-.822	-1.125	-.910	-.689	-.570	-.466
58	27.5	--	--	--	--	--	--
59	49.0	-.706	-1.078	-.887	-.740	-.660	-.726
60	50.0	-.604	-1.060	-.812	-.731	-.662	-.808
61	59.0	-.475	-.620	-.593	-.602	-.613	-.840
62	67.5	-.320	-.278	-.472	-.503	-.510	-.860
63	86.5	-.011	.035	-.270	-.389	-.423	-.782
64	94.6	.077	.116	-.182	-.332	-.399	-.728
G65	2.0	-1.308	-.947	-.676	-.391	-.250	-.138
66	6.0	-1.009	-1.111	-.876	-.613	-.481	-.370
67	15.0	-.790	-1.080	-.901	-.688	-.572	-.470
68	27.5	-.702	-1.100	-.942	-.780	-.691	-.592
69	40.0	-.678	-1.000	-.860	-.712	-.643	-.717
70	50.0	-.593	-1.000	-.824	-.690	-.648	-.782
71	59.0	-.453	-.482	-.591	-.578	-.600	-.798
72	67.5	-.310	-.208	-.459	-.491	-.520	-.808
73	77.5	-.130	-.055	-.332	-.423	-.460	-.780
74	87.2	.003	.080	-.220	-.368	-.426	-.690
75	96.8	.114	.170	-.130	-.290	-.374	-.607
H76	2.0	-.938	-.891	-.667	-.403	-.274	-.163
77	6.0	-.772	-.990	-.828	-.615	-.500	-.398
78	15.0	-.580	-.832	-.830	-.674	-.582	-.490
79	27.5	--	--	--	--	--	--
80	40.0	-.520	-.740	-.813	-.741	-.724	-.690
81	50.0	-.478	-.661	-.791	-.690	-.669	-.778
82	59.0	-.361	-.432	-.575	-.697	-.679	-.789
83	67.5	-.217	-.250	-.251	-.640	-.690	-.767
84	88.3	-.011	-.021	-.036	-.100	-.300	-.620
85	94.2	.212	.111	.067	.141	-.184	-.259

LOWER SURFACE

Tube	Percent chord	Mach Number 0.60	0.75	0.80	0.85	0.89	0.925
86	3.0	0.560	0.568	0.509	0.440	0.440	0.451
87	10.0	--	--	--	--	--	--
88	25.0	.032	.045	-.019	-.069	-.075	-.030
89	41.0	-.080	-.096	-.160	-.255	-.310	-.170
90	52.5	-.052	-.070	-.130	-.232	-.357	-.329
91	62.5	-.038	-.039	-.089	-.169	-.451	-.441
92	72.5	-.012	-.004	-.042	-.110	-.290	-.490
93	84.0	.110	.140	.105	.055	-.025	-.370
94	94.0	.117	.142	.120	.091	.021	-.191
95	3.0	.544	.545	.480	.418	.410	.433
96	10.0	.256	.270	.220	.175	.180	.215
97	25.0	.010	.009	-.049	-.101	-.103	-.065
98	41.0	-.098	-.120	-.192	-.300	-.329	-.284
99	52.5	-.102	-.125	-.199	-.330	-.470	-.430
100	62.5	-.056	-.069	-.130	-.234	-.530	-.520
101	72.5	.019	.031	-.010	-.055	-.392	-.495
102	86.3	.144	.168	.130	.070	.020	-.447
103	94.5	.195	.229	.179	.090	.069	-.130
104	3.0	.548	.540	.470	.409	.405	.430
105	10.0	.240	.250	.196	.150	.159	.190
106	25.0	.010	.000	-.060	-.119	-.111	-.070
107	41.0	-.098	-.130	-.210	-.330	-.341	-.295
108	52.5	-.100	-.131	-.215	-.370	-.489	-.440
109	62.5	-.043	-.070	-.145	-.290	-.551	-.541
110	72.5	.008	-.009	-.075	-.161	-.495	-.540
111	85.1	.148	.168	.109	.049	-.111	-.471
112	94.6	.230	.260	.180	.109	.098	-.181
113	3.0	.538	.520	.450	.480	.381	.411
114	10.0	.250	.251	.198	.152	.160	.199
115	25.0	.012	-.004	-.070	-.130	-.120	-.080
116	41.0	-.091	-.131	-.225	-.250	-.345	-.295
117	52.5	-.092	-.130	-.225	-.403	-.481	-.431
118	62.5	-.048	-.070	-.155	-.320	-.574	-.546
119	72.5	.007	-.030	-.120	-.170	-.519	-.530
120	87.4	.174	.197	.130	.071	-.330	-.431
121	94.2	.193	.220	.120	.048	-.021	-.335
122	3.0	.580	.580	.507	.438	.431	.455
123	10.0	.264	.275	.219	.169	.175	-.205
124	25.0	.030	.030	-.048	-.101	.100	-.053
125	41.0	-.073	-.100	-.198	-.314	-.322	-.280
126	52.5	-.064	-.085	-.189	-.329	-.430	-.391
127	62.5	-.051	-.055	-.155	-.271	-.520	-.501
128	72.5	.022	.010	-.100	-.220	-.470	-.530
129	78.0	.070	.089	.062	-.110	-.451	-.485
130	85.3	.162	.182	.125	.070	-.282	-.460
131	94.1	.188	.236	.115	.050	.000	-.280
132	3.0	.570	.561	.490	.420	.418	.439
133	10.0	.266	.278	.220	.170	.180	.210
134	25.0	.032	.037	-.045	-.103	-.095	-.060
135	41.0	-.080	-.095	-.192	-.308	-.310	-.270
136	52.5	-.089	-.105	-.211	-.365	-.470	-.422
137	62.5	-.088	-.040	-.140	-.279	-.531	-.550
138	72.5	.088	.000	-.100	-.228	-.470	-.562
139	83.4	.169	.180	.100	.039	-.325	-.432
140	94.0	.140	.149	.010	-.076	-.122	-.390
141	3.0	.565	.567	.500	.430	.448	.450
142	10.0	.239	.250	.191	.142	.152	.180
143	25.0	.018	.005	-.062	-.121	-.115	-.080
144	41.0	-.088	-.120	-.218	-.340	-.335	-.295
145	52.5	-.080	-.110	-.210	-.365	-.490	-.449
146	62.5	-.031	-.048	-.135	-.260	-.521	-.510
147	72.5	.031	.010	-.089	-.189	-.472	-.520
148	84.0	.200	.215	.142	.065	-.328	-.415
149	92.0	.142	.157	.030	-.060	-.100	-.341
150	3.0	.470	.490	.440	.380	.385	.400
151	10.0	.160	.170	.131	.091	.110	.135
152	25.0	-.043	-.080	-.130	-.181	-.181	-.160
153	41.0	-.153	-.191	-.360	-.363	-.376	-.349
154	52.5	-.138	-.183	-.350	-.365	-.502	-.470
155	62.5	-.078	-.120	-.180	-.295	-.485	-.505
156	72.5	-.030	-.080	-.141	-.230	-.419	-.509
157	84.9	.090	.084	.070	.039	-.015	-.305

NACA

[redacted]

TABLE 5

$[\Lambda = 0^\circ, \delta_{a_n} = 0^\circ, \alpha = 7^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.75	0.80	0.85	0.89	0.925
A 1	2.0	-1.560	-1.803	-1.487	-1.231	-1.040	-0.880
2	6.0	-1.561	-1.768	-1.470	-1.222	-1.060	-.917
3	15.0	-1.419	-1.569	-1.314	-1.090	-.931	-.801
4	27.5	-.894	-1.220	-1.196	-1.050	-.927	-.811
5	40.0	-.529	-.610	-.720	-.932	-.898	-.804
6	50.0	-.400	-.489	-.492	-.613	-.889	-.845
7	59.0	-.311	-.381	-.430	-.481	-.749	-.912
8	67.5	--	--	--	--	--	--
9	77.5	-.140	-.167	-.261	-.369	-.460	-.930
10	87.5	-.067	-.088	-.183	-.322	-.412	-.846
11	96.0	-.025	-.042	-.132	-.271	-.351	-.669
B12	2.0	-2.350	-1.510	-1.159	-.861	-.672	-.528
13	6.0	-2.248	-1.521	-1.221	-.972	-.813	-.684
14	15.0	-1.091	-1.450	-1.211	-1.020	-.870	-.730
15	27.5	-.869	-1.331	-1.122	-1.000	-.950	-.882
16	40.0	-.688	-.825	-.738	-.726	-.900	-.950
17	50.0	-.548	-.620	-.639	-.620	-.736	-.924
18	59.0	-.410	-.473	-.571	-.576	-.651	-1.000
19	67.5	-.283	-.364	-.520	-.558	-.621	-1.010
20	77.5	-.166	-.261	-.450	-.540	-.600	-1.015
21	88.0	-.070	-.163	-.363	-.580	-.564	-.956
22	95.3	-.030	-.112	-.303	-.461	-.540	-.912
C23	2.0	-2.440	-1.401	-1.020	-.726	-.564	-.440
24	6.0	-2.323	-1.450	-1.150	-.917	-.770	-.630
25	15.0	-1.002	-1.390	-1.156	-.955	-.810	-.683
26	27.5	-.880	-1.280	-1.076	-.927	-.890	-.802
27	40.0	-.763	-.819	-.760	-.861	-.838	-.888
28	50.0	-.638	-.670	-.645	-.671	-.759	-.916
29	59.0	-.482	-.540	-.572	-.607	-.673	-1.030
30	67.5	-.318	-.435	-.514	-.568	-.620	-1.032
31	77.5	-.163	-.340	-.470	-.562	-.610	-1.020
32	88.0	-.040	-.245	-.402	-.512	-.580	-.984
33	95.3	.011	-.173	-.300	-.420	-.484	-.908
D34	2.0	-2.412	-1.375	-1.020	-.759	-.610	-.491
35	15.0	-1.045	-1.391	-1.150	-.932	-.786	-.661
36	27.5	-.880	-1.295	-1.100	-1.014	-.880	-.760
37	40.0	-.790	-.910	-.991	-1.000	-.950	-.870
38	50.0	-.662	-.686	-.730	-.869	-.834	-.970
39	59.0	-.503	-.569	-.620	-.688	-.730	-.938
40	67.5	-.330	-.458	-.562	-.680	-.720	-1.018
41	77.5	-.170	-.350	-.485	-.640	-.706	-1.060
42	87.5	-.040	-.251	-.400	-.550	-.669	-1.018
43	94.2	.020	-.197	-.342	-.488	-.632	-.987
E44	2.0	-2.433	-1.426	-1.075	-.798	-.624	-.470
45	6.0	-2.362	-1.490	-1.200	-.950	-.785	-.642
46	15.0	-1.200	-1.393	-1.178	-.982	-.834	-.703
47	27.5	-.888	-1.300	-1.091	-.930	-.893	-.788
48	40.0	-.764	-.845	-.820	-.910	-.840	-.880
49	50.0	-.630	-.660	-.650	-.724	-.832	-.972
50	59.0	-.472	-.550	-.582	-.635	-.759	-.998
51	67.5	-.318	-.460	-.537	-.593	-.690	-1.036
52	77.5	-.157	-.361	-.481	-.560	-.642	-.993
53	88.5	-.032	-.284	-.430	-.540	-.623	-.982
54	95.5	.020	-.230	-.392	-.512	-.606	-.978
F55	2.0	-2.344	-1.484	-1.120	-.810	-.627	-.470
56	6.0	-2.328	-1.499	-1.195	-.940	-.780	-.640
57	15.0	-1.231	-1.366	-1.154	-.971	-.823	-.693
58	27.5	--	--	--	--	--	--
59	49.0	-.756	-.810	-.791	-.904	-.848	-.880
60	50.0	-.616	-.650	-.636	-.742	-.838	-.962
61	59.0	-.462	-.550	-.571	-.651	-.782	-.990
62	67.5	-.310	-.460	-.525	-.609	-.714	-1.010
63	86.5	-.048	-.311	-.442	-.548	-.641	-.973
64	94.5	.016	-.250	-.401	-.512	-.610	-.931
G65	2.0	-2.235	-1.458	-1.086	-.770	-.590	-.438
66	6.0	-2.213	-1.482	-1.180	-.930	-.769	-.622
67	15.0	-1.102	-1.369	-1.138	-.963	-.818	-.680
68	27.5	-.827	-1.301	-1.060	-.890	-.857	-.760
69	40.0	-.731	-.887	-.822	-.851	-.814	-.860
70	50.0	-.602	-.680	-.660	-.694	-.793	-.927
71	59.0	-.442	-.548	-.581	-.611	-.725	-.940
72	67.5	-.300	-.440	-.530	-.580	-.672	-.954
73	77.5	-.141	-.331	-.471	-.551	-.634	-.924
74	87.2	-.039	-.234	-.402	-.510	-.580	-.890
75	96.8	.023	-.152	-.320	-.440	-.519	-.811
H76	2.0	-1.852	-1.370	-1.042	-.773	-.608	-.450
77	6.0	-1.710	-1.401	-1.133	-.900	-.745	-.601
78	15.0	-.761	-1.319	-1.132	-.946	-.810	-.690
79	27.5	--	--	--	--	--	--
80	40.0	-.600	-.718	-.956	-.880	-.850	-.810
81	50.0	-.523	-.609	-.795	-.875	-.820	-.880
82	59.0	-.392	-.454	-.494	-.808	-.820	-.898
83	67.5	-.264	-.308	-.374	-.684	-.810	-.873
84	88.3	-.068	-.084	-.151	-.353	-.531	-.685
85	94.2	-.058	-.057	.076	-.206	-.401	-.406

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.75	0.80	0.85	0.89	0.925
86	3.0	0.800	0.860	0.733	0.695	--	--
87	10.0	--	--	--	--	--	--
88	25.0	.163	.190	.101	.075	0.079	0.098
89	41.0	.011	-.018	-.085	-.142	-.169	-.151
90	52.5	.013	-.060	-.100	-.168	-.225	-.220
91	62.5	.004	-.085	-.093	-.150	-.230	-.325
92	72.5	.003	-.130	-.085	-.145	-.165	-.364
93	84.0	.111	-.030	-.052	.000	-.005	-.099
94	94.0	.100	-.110	-.051	-.011	-.012	-.040
95	3.0	.798	.842	.705	.670	.660	.665
96	10.0	.463	.525	.400	.373	.378	.390
97	25.0	.160	.187	.081	.052	.057	.079
98	41.0	.008	-.028	-.110	-.170	-.190	-.165
99	52.5	-.030	-.105	-.157	-.241	-.312	-.301
100	62.5	-.006	-.109	-.130	-.201	-.309	-.407
101	72.5	.048	-.070	-.050	-.105	-.132	-.341
102	86.3	.128	-.030	.054	.025	.041	-.100
103	94.5	.160	-.075	.050	.020	.045	.089
104	3.0	.803	.850	.695	.660	.649	.650
105	10.0	.459	.512	.387	.350	.350	.368
106	25.0	.169	.190	.075	.049	.049	.072
107	41.0	.015	-.022	-.121	-.189	-.202	-.175
108	52.5	-.024	-.104	-.178	-.270	-.350	-.320
109	62.5	-.001	-.105	-.140	-.215	-.320	-.422
110	72.5	.050	-.043	-.070	-.153	-.280	-.370
111	85.1	.148	.005	.055	.037	.060	-.274
112	94.6	.217	.050	.098	.075	.100	.139
113	3.0	.800	.840	.674	.631	.620	.738
114	10.0	.470	.520	.379	.351	.350	.369
115	25.0	.173	.191	.069	.031	.039	.068
116	41.0	.020	-.018	-.130	-.199	-.211	-.180
117	52.5	-.010	-.090	-.180	-.279	-.345	-.310
118	62.5	.009	-.090	-.145	-.224	-.360	-.430
119	72.5	.069	-.030	-.079	-.170	-.311	-.380
120	87.4	.163	.041	.080	.071	.060	-.335
121	94.2	.180	.040	.050	.030	.059	.020
122	3.0	.820	.869	.715	.674	.665	.660
123	10.0	.480	.530	.385	.360	.360	.370
124	25.0	.188	.210	.085	.057	.059	.079
125	41.0	.040	.005	-.109	-.170	-.184	-.161
126	52.5	.019	-.052	-.149	-.221	-.271	-.262
127	62.5	.011	-.090	-.160	-.227	-.290	-.388
128	72.5	.065	-.045	-.089	-.150	-.221	-.350
129	78.0	.090	-.030	-.060	-.120	-.195	-.314
130	85.3	.120	.000	-.040	-.052	.100	-.279
131	94.1	.198	.000	.049	.041	.071	.085
132	3.0	.818	.860	.700	.660	.650	.649
133	10.0	.480	.535	.389	.360	.361	.370
134	25.0	.188	.210	.085	.056	.059	.079
135	41.0	.043	.010	-.107	-.165	-.179	-.150
136	52.5	.000	-.075	-.175	-.259	-.329	-.310
137	62.5	.028	-.075	-.140	-.209	-.275	-.410
138	72.5	.080	-.030	-.075	-.145	-.230	-.342
139	83.4	.160	.050	.030	.025	.080	-.282
140	94.0	.110	-.100	-.100	-.118	-.081	-.130
141	3.0	.810	.858	.704	.664	.655	.655
142	10.0	.450	.505	.360	.331	.338	.350
143	25.0	.170	.191	.065	.030	.038	.059
144	41.0	.020	-.019	-.138	-.205	-.215	-.181
145	52.5	.010	-.083	-.180	-.280	-.370	-.341
146	62.5	.030	-.070	-.130	-.220	-.355	-.435
147	72.5	.078	-.033	-.072	-.150	-.258	-.385
148	84.0	.121	.015	-.018	-.015	.105	-.294
149	92.0	.120	-.090	-.055	-.084	-.060	-.165
150	3.0	.730	.804	.645	.603	.595	.594
151	10.0	.350	.420	.280	.259	.262	.280
152	25.0	.070	.090	-.030	-.061	-.060	-.039
153	41.0	-.068	-.101	-.205	-.280	-.291	-.260
154	52.5	-.090	-.150	-.233	-.340	-.430	-.403
155	62.5	-.050	-.120	-.180	-.280	-.405	-.435
156	72.5	.004	-.080	-.119	-.220	-.350	-.445
157	84.9	.050	-.050	.000	-.085	-.151	-.220

NACA

[redacted]

TABLE 6

[$\Lambda = 0^{\circ}$, $\delta_{a_n} = 0^{\circ}$, $\alpha = 10^{\circ}$]

[redacted]

UPPER SURFACE								LOWER SURFACE							
Tube	Percent chord	Mach Number						Tube	Percent chord	Mach Number					
		0.60	0.75	0.80						0.60	0.75	0.80			
A 1	2.0	-0.582	-0.555	-0.580				86	3.0	0.830	0.780	0.840			
2	6.0	-.579	-.553	-.579				87	10.0	--	--	--			
3	15.0	-.579	-.542	-.565				88	25.0	.162	.150	.180			
4	27.5	-.594	-.550	-.566				89	41.0	.003	-.028	-.033			
5	40.0	-.620	-.565	-.580				90	52.5	-.020	-.034	-.070			
6	50.0	-.638	-.581	-.597				91	62.5	-.052	-.029	-.104			
7	59.0	-.638	-.600	-.611				92	72.5	-.092	-.020	-.132			
8	67.5	--	--	--				93	84.0	-.012	.100	-.030			
9	77.5	-.569	-.600	-.621				94	94.0	-.086	.090	-.075			
10	87.5	-.497	-.572	-.600											
11	96.0	-.439	-.542	-.567											
B12	2.0	-1.003	-.599	-.900				95	3.0	.833	.756	.820			
13	6.0	-.736	-.543	-.832				96	10.0	.508	.440	.510			
14	15.0	-.620	-.542	-.592				97	25.0	.189	.130	.171			
15	27.5	-.620	-.550	-.570				98	41.0	.000	-.045	-.048			
16	40.0	-.640	-.570	-.580				99	52.5	-.066	-.075	-.130			
17	50.0	-.650	-.591	-.598				100	62.5	-.070	-.059	-.130			
18	59.0	-.660	-.620	-.621				101	72.5	-.042	.013	-.080			
19	67.5	-.665	-.641	-.644				102	86.3	-.020	.115	-.022			
20	77.5	-.648	-.660	-.669				103	94.5	-.080	.230	-.040			
21	88.0	-.588	-.642	-.660											
22	95.3	-.532	-.611	-.647											
C23	2.0	-1.898	-1.640	-1.346				104	3.0	.860	.750	.815			
24	6.0	-1.734	-1.567	-1.368				105	10.0	.518	.422	.491			
25	15.0	-1.292	-1.446	-1.267				106	25.0	.200	.130	.172			
26	27.5	-.826	-.906	-1.128				107	41.0	.013	-.048	-.050			
27	40.0	-.660	-.660	-.722				108	52.5	-.051	-.090	-.137			
28	50.0	-.602	-.629	-.640				109	62.5	-.058	-.060	-.131			
29	59.0	-.550	-.618	-.610				110	72.5	-.012	.009	-.069			
30	67.5	-.483	-.591	-.578				111	85.1	.028	.110	-.019			
31	77.5	-.455	-.609	-.588				112	94.8	.044	.160	.061			
32	88.0	-.382	-.571	-.546											
33	95.3	-.280	-.467	-.450											
D34	2.0	-1.988	-1.614	-1.330				113	3.0	.865	.738	.800			
35	15.0	-1.462	-1.435	-1.272				114	10.0	.532	.430	.491			
36	27.5	-1.000	-1.159	-1.142				115	25.0	.210	.129	.179			
37	40.0	-.720	-.836	-.829				116	41.0	.030	-.048	-.050			
38	50.0	-.569	-.681	-.733				117	52.5	-.030	-.090	-.130			
39	59.0	-.461	-.570	-.663				118	62.5	-.036	-.060	-.130			
40	67.5	-.365	-.488	-.624				119	72.5	.012	.005	-.062			
41	77.5	-.284	-.410	-.560				120	87.4	.078	.130	.009			
42	87.5	-.220	-.338	-.485				121	94.2	.060	.115	.010			
43	94.2	-.190	-.291	-.440											
E44	2.0	-1.800	-1.535	-1.374				122	3.0	.880	.765	.843			
45	6.0	-1.614	-1.365	-1.360				123	10.0	.538	.435	.505			
46	15.0	-1.398	-1.160	-1.230				124	25.0	.220	.140	.190			
47	27.5	-1.020	-.905	-.978				125	41.0	.040	-.032	-.025			
48	40.0	-.727	-.789	-.776				126	52.5	-.010	-.061	-.090			
49	50.0	-.570	-.730	-.708				127	62.5	-.040	-.070	-.130			
50	59.0	-.469	-.681	-.669				128	72.5	.000	-.010	-.079			
51	67.5	-.400	-.632	-.630				129	78.0	.010	.019	-.060			
52	77.5	-.330	-.564	-.590				130	85.3	.040	.059	-.029			
53	88.5	-.275	-.490	-.547				131	94.1	.034	.109	-.020			
54	95.5	-.242	-.433	-.512											
F55	2.0	-1.640	-1.360	-1.397				132	3.0	.873	.758	.820			
56	6.0	-1.540	-1.485	-1.350				133	10.0	.535	.449	.505			
57	15.0	-1.362	-1.302	-1.231				134	25.0	.220	.141	.189			
58	27.5	--	--	--				135	41.0	.048	-.030	-.020			
59	49.0	-.741	-.809	-.800				136	52.5	-.020	-.180	-.113			
60	50.0	-.590	-.717	-.728				137	62.5	-.020	-.052	-.109			
61	59.0	-.489	-.650	-.680				138	72.5	.014	.009	-.060			
62	67.5	-.412	-.589	-.640				139	83.4	.071	.100	.030			
63	86.5	-.297	-.460	-.550				140	94.0	-.048	-.004	-.139			
64	94.5	-.256	-.400	-.502											
G65	2.0	-1.588	-1.281	-1.327				141	3.0	.872	.760	.825			
66	6.0	-1.560	-1.223	-1.241				142	10.0	.518	.415	.480			
67	15.0	-1.352	-.997	-1.121				143	25.0	.210	.125	.169			
68	27.5	-1.060	-.849	-.870				144	41.0	.032	-.050	-.055			
69	40.0	-.777	-.772	-.743				145	52.5	-.016	-.082	-.130			
70	50.0	-.608	-.723	-.692				146	62.5	.000	-.033	-.110			
71	59.0	-.490	-.679	-.660				147	72.5	.028	.018	-.069			
72	67.5	-.405	-.639	-.634				148	84.0	.065	.078	-.020			
73	77.5	-.320	-.582	-.600				149	92.0	-.013	.049	-.110			
74	87.2	-.242	-.509	-.547											
75	96.8	-.180	-.408	-.460											
H76	2.0	-1.950	-1.608	-1.337				150	3.0	.029	.700	.765			
77	6.0	-1.961	-1.521	-1.360				151	10.0	.434	.330	.395			
78	15.0	-1.121	-1.410	-1.228				152	25.0	.119	.030	.060			
79	27.5	--	--	--				153	41.0	-.042	-.121	-.150			
80	40.0	-.628	-.688	-.851				154	52.5	-.081	-.145	-.210			
81	50.0	-.546	-.610	-.727				155	62.5	-.058	-.095	-.182			
82	59.0	-.430	-.518	-.641				156	72.5	-.017	-.033	-.142			
83	67.5	-.315	-.402	-.551				157	84.9	.004	.050	-.125			
84	88.3	-.128	-.218	-.350											
85	94.2	-.023	-.023	.084											

[redacted]

TABLE 7

[$\Lambda = 30^\circ$, $\delta_{e_n} = 0^\circ$, $\alpha = -2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
A 1	2.0	0.310	0.352	0.385			
2	6.0	.104	.140	.160			
3	15.0	-.028	-.005	.015			
4	27.5	-.105	-.103	-.090			
5	40.0	--	--	--			
6	50.0	--	--	--			
7	59.0	--	--	--			
8	67.5	--	--	--			
9	77.5	--	--	--			
10	87.5	--	--	--			
11	96.0	--	--	--			
B12	2.0	.308	.348	.370			
13	6.0	.080	.107	.125			
14	15.0	-.078	-.070	-.051			
15	27.5	-.182	-.198	-.191			
16	40.0	-.253	-.303	-.318			
17	50.0	-.272	-.345	-.368			
18	59.0	-.251	-.330	-.385			
19	67.5	-.201	-.270	-.320			
20	77.5	-.140	-.190	-.218			
21	88.0	-.023	-.032	-.050			
22	95.3	--	--	--			
C23	2.0	.310	.348	.360			
24	6.0	.071	.090	.110			
25	15.0	-.100	-.105	-.091			
26	27.5	-.206	-.244	-.243			
27	40.0	-.280	-.360	-.389			
28	50.0	-.290	-.389	-.440			
29	59.0	-.262	-.341	-.395			
30	67.5	-.208	--	--			
31	77.5	-.100	-.140	-.140			
32	88.0	.010	-.004	.000			
33	95.3	.090	.081	.100			
D34	2.0	-.265	.303	.314			
35	15.0	-.104	-.120	-.119			
36	27.5	-.210	-.262	-.279			
37	40.0	-.281	-.374	-.420			
38	50.0	-.288	-.381	-.441			
39	59.0	-.247	-.325	-.370			
40	67.5	-.200	-.290	-.341			
41	77.5	-.105	-.055	-.060			
42	87.5	.030	.030	.048			
43	94.2	.096	.110	.118			
E44	2.0	.354	.379	.387	.390		
45	6.0	.082	.095	.100	.100		
46	15.0	-.088	-.102	-.108	-.108		
47	27.5	-.192	-.238	-.258	-.268		
48	40.0	-.264	-.338	-.388	-.431		
49	50.0	-.270	-.342	-.400	-.518		
50	59.0	-.234	-.295	-.343	-.450		
51	67.5	-.188	-.244	-.263	-.218		
52	77.5	-.040	-.033	-.041	-.030		
53	88.5	.160	.158	.160	.170		
54	95.5	.127	.148	.153	.170		
F55	2.0	.330	.358	.365	.362		
56	6.0	.090	.098	.102	.110		
57	15.0	-.083	-.100	-.105	-.110		
58	27.5	-.190	-.232	-.253	-.270		
59	49.0	-.261	-.335	-.383	-.438		
60	50.0	-.261	-.336	-.389	-.479		
61	59.0	-.228	-.283	-.322	-.421		
62	67.5	-.158	-.202	-.221	-.180		
63	86.5	--	--	--	--		
64	94.5	--	--	--	--		
G65	2.0	.350	.378	.383	.380		
66	6.0	.098	.108	.110	.114		
67	15.0	-.071	-.082	-.091	-.097		
68	27.5	-.174	-.218	-.240	-.252		
69	40.0	-.250	-.318	-.360	-.402		
70	50.0	-.253	-.323	-.372	-.430		
71	59.0	-.209	-.260	-.304	-.362		
72	67.5	-.160	-.224	-.270	-.280		
73	77.5	-.138	-.088	-.002	.011		
74	87.2	--	--	--	--		
75	96.8	.118	.135	.130	.152		
H76	2.0	.290	.310	.319	.329		
77	6.0	.045	.040	.042	.049		
78	15.0	-.097	-.131	-.148	-.151		
79	27.5	-.194	-.252	-.292	-.330		
80	40.0	-.250	-.320	-.370	-.451		
81	50.0	-.253	-.311	-.347	-.390		
82	59.0	-.200	-.247	-.282	-.361		
83	67.5	-.140	-.189	-.201	-.100		
84	88.3	.050	.070	.080	.111		
85	94.2	.089	.111	.128	.152		

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
86	3.0	-0.395	-0.364	-0.410			
87	10.0	--	--	--			
88	25.0	-.230	-.250	-.283			
89	41.0	--	--	--			
90	52.5	--	--	--			
91	62.5	--	--	--			
92	72.5	--	--	--			
93	84.0	--	--	--			
94	94.0	--	--	--			
95	3.0	-.455	-.508	-.519			
96	10.0	-.293	-.340	-.372			
97	25.0	-.272	-.342	-.371			
98	41.0	-.273	-.365	-.444			
99	52.5	-.230	-.322	-.431			
100	62.5	-.168	-.235	-.300			
101	72.5	-.090	-.130	-.161			
102	86.3	.009	-.011	-.029			
103	94.5	--	--	--			
104	3.0	-.484	-.571	-.605			
105	10.0	-.342	-.413	-.445			
106	25.0	-.302	-.390	-.435			
107	41.0	-.290	-.393	-.523			
108	52.5	-.243	-.322	-.405			
109	62.5	-.169	-.211	-.230			
110	72.5	-.062	-.075	-.081			
111	85.1	.049	.050	.049			
112	94.6	.130	.150	.140			
113	3.0	-.495	-.620	-.694			
114	10.0	-.331	-.489	-.485			
115	25.0	-.310	-.411	-.500			
116	41.0	--	--	--			
117	52.5	-.240	-.303	-.329			
118	62.5	-.150	-.180	-.183			
119	72.5	-.041	-.049	-.042			
120	87.4	.080	.085	.098			
121	94.2	.128	.139	.141			
122	3.0	-.491	-.610	-.705	-.719		
123	10.0	-.350	-.430	-.500	-.512		
124	25.0	-.300	-.382	-.470	-.555		
125	41.0	-.268	-.338	-.400	-.582		
126	52.5	-.204	-.244	-.253	-.479		
127	62.5	-.142	-.162	-.171	-.121		
128	72.5	-.039	-.031	-.030	.020		
129	78.0	.019	.035	.040	.075		
130	85.3	.097	.120	.128	.152		
131	94.1	.151	.180	.188	.205		
132	3.0	.517	.644	-.753	-.725		
133	10.0	-.348	-.441	-.530	-.565		
134	25.0	-.298	-.378	-.442	-.575		
135	41.0	-.262	-.332	-.382	-.575		
136	52.5	-.210	-.255	-.276	-.407		
137	62.5	-.122	-.134	-.138	-.080		
138	72.5	-.019	-.010	-.004	.028		
139	83.4	.060	.080	.084	.185		
140	94.0	.110	.136	.141	.160		
141	3.0	-.510	-.640	-.751	-.755		
142	10.0	-.361	-.460	-.554	-.652		
143	25.0	-.297	-.380	-.458	-.590		
144	41.0	-.260	-.325	-.362	-.533		
145	52.5	-.200	-.232	-.238	-.249		
146	62.5	-.084	-.090	-.114	-.048		
147	72.5	-.008	.005	.012	.048		
148	84.0	.116	.138	.146	.180		
149	92.0	.104	.135	.148	.170		
150	3.0	-.480	-.631	-.768	-.839		
151	10.0	-.320	-.389	-.500	-.679		
152	25.0	-.270	-.340	-.380	-.560		
153	41.0	-.229	-.270	-.281	-.248		
154	52.5	-.161	-.172	-.170	-.099		
155	62.5	-.068	-.060	-.050	-.009		
156	72.5	.008	.030	.040	.071		
157	84.9	.122	.160	.169	.185		

NACA

[redacted]

TABLE 8

$[\Lambda = 30^\circ, \delta_{a_n} = 0^\circ, \alpha = 0^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	0.035	0.110	0.135	0.145	0.190	0.238
2	6.0	-.095	-.049	-.090	-.018	.030	.080
3	15.0	-.165	-.141	-.128	-.113	-.068	-.011
4	27.5	-.205	-.210	-.200	-.190	-.144	-.082
5	40.0	--	--	--	--	--	--
6	50.0	--	--	--	--	--	--
7	59.0	--	--	--	--	--	--
8	67.5	--	--	--	--	--	--
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	.018	.082	.110	.123	.171	.210
13	6.0	-.130	-.098	-.076	-.061	-.013	.040
14	15.0	-.215	-.214	-.201	-.191	-.143	-.076
15	27.5	-.281	-.315	-.310	-.300	-.250	-.175
16	40.0	-.335	-.408	-.422	-.421	-.362	-.300
17	50.0	-.335	-.432	-.488	-.499	-.440	-.362
18	59.0	-.300	-.410	-.508	-.530	-.472	-.423
19	67.5	-.240	-.322	-.430	-.540	-.490	-.409
20	77.5	-.167	-.221	-.270	-.482	-.489	-.410
21	88.0	-.056	-.035	-.095	-.200	-.340	-.342
22	95.3	--	--	--	--	--	--
C23	2.0	.002	.070	.099	.114	.160	.202
24	6.0	-.150	-.121	-.101	-.089	-.038	.010
25	15.0	-.250	-.261	-.253	-.242	-.192	-.139
26	27.5	-.322	-.371	-.380	-.370	-.313	-.254
27	40.0	-.370	-.471	-.510	-.508	-.450	-.380
28	50.0	-.352	-.470	-.580	-.598	-.539	-.470
29	59.0	-.318	-.414	-.552	-.658	-.623	-.543
30	67.5	--	--	--	--	--	--
31	77.5	-.119	-.155	-.154	-.352	-.559	-.520
32	88.0	-.004	-.010	-.008	-.041	-.160	-.340
33	95.3	.080	.080	.185	.062	.009	-.030
D34	2.0	-.060	.003	.019	.038	.082	.130
35	15.0	-.264	-.295	-.295	-.282	-.231	-.174
36	27.5	-.322	-.412	-.422	-.415	-.361	-.296
37	40.0	-.370	-.495	-.580	-.570	-.510	-.440
38	50.0	-.355	-.470	-.590	-.647	-.615	-.542
39	59.0	-.301	-.390	-.525	-.587	-.583	-.581
40	67.5	-.270	-.389	-.478	-.560	-.572	-.582
41	77.5	-.068	-.060	-.052	-.312	-.400	-.551
42	87.5	-.008	.027	.041	-.018	-.233	-.371
43	94.2	.088	.110	.115	.052	-.110	-.176
E44	2.0	.018	.065	.096	.148	.188	.208
45	6.0	-.152	-.155	-.138	-.100	-.060	-.029
46	15.0	-.250	-.290	-.298	-.268	-.231	-.196
47	27.5	-.310	-.389	-.421	-.400	-.360	-.321
48	40.0	-.351	-.470	-.560	-.549	-.502	-.458
49	50.0	-.332	-.441	-.551	-.675	-.631	-.580
50	59.0	-.284	-.371	-.481	-.621	-.641	-.618
51	67.5	-.240	-.300	-.221	-.396	-.512	-.530
52	77.5	-.051	-.064	-.054	-.102	-.295	-.362
53	88.5	.150	.129	.160	.040	-.024	-.161
54	95.5	.128	.146	.160	.090	.036	-.085
F55	2.0	-.010	.030	.059	.110	.150	.171
56	6.0	-.150	-.158	-.141	-.100	-.060	-.030
57	15.0	-.250	-.298	-.308	-.281	-.248	-.212
58	27.5	-.303	-.392	-.426	-.411	-.374	-.335
59	40.0	-.350	-.470	-.560	-.564	-.522	-.484
60	50.0	-.328	-.435	-.518	-.651	-.648	-.600
61	59.0	-.280	-.370	-.471	-.600	-.610	-.623
62	67.5	-.191	-.242	-.200	-.462	-.613	-.607
63	86.5	--	--	--	--	--	--
64	94.6	--	--	--	--	--	--
G65	2.0	.002	.040	.062	.110	.160	.173
66	6.0	-.151	-.168	-.154	-.121	-.080	-.056
67	15.0	-.242	-.288	-.300	-.281	-.250	-.220
68	27.5	-.290	-.376	-.412	-.420	-.390	-.353
69	40.0	-.336	-.444	-.508	-.560	-.500	-.467
70	50.0	-.320	-.420	-.475	-.538	-.451	-.452
71	59.0	-.258	-.352	-.420	-.505	-.430	-.423
72	67.5	-.222	-.330	-.314	-.330	-.351	-.330
73	77.5	-.008	-.002	-.007	-.054	-.198	-.242
74	87.2	--	--	--	--	--	--
75	96.8	.111	.130	.150	.147	.028	-.133
H76	2.0	-.020	-.009	.012	.051	.110	.128
77	6.0	-.176	-.214	-.216	-.190	-.148	-.120
78	15.0	-.230	-.302	-.330	-.330	-.290	-.258
79	27.5	-.280	-.371	-.435	-.472	-.443	-.400
80	40.0	-.310	-.407	-.452	-.551	-.541	-.376
81	50.0	-.293	-.361	-.391	-.490	-.484	-.380
82	59.0	-.240	-.309	-.358	-.452	-.465	-.340
83	67.5	-.171	-.200	-.100	-.064	-.136	-.282
84	88.3	.048	.078	.097	.114	.027	-.120
85	94.2	.090	.115	.140	.150	.060	-.070

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	-0.072	-0.081	-0.070	-0.055	-0.021	0.028
87	10.0	--	--	--	--	--	--
88	25.0	-.121	-.158	-.160	-.151	-.121	-.072
89	41.0	--	--	--	--	--	--
90	52.5	--	--	--	--	--	--
91	62.5	--	--	--	--	--	--
92	72.5	--	--	--	--	--	--
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	-.100	-.131	-.120	-.119	-.083	-.031
96	10.0	-.129	-.160	-.158	-.145	-.109	-.054
97	25.0	-.175	-.229	-.241	-.241	-.211	-.153
98	41.0	-.199	-.270	-.309	-.338	-.309	-.255
99	52.5	-.170	-.249	-.303	-.371	-.369	-.302
100	62.5	-.124	-.181	-.219	-.320	-.413	-.368
101	72.5	-.051	-.092	-.111	-.153	-.341	-.320
102	86.3	.039	.018	.009	-.015	-.140	-.230
103	94.5	--	--	--	--	--	--
104	3.0	-.105	-.150	-.160	-.160	-.121	-.058
105	10.0	-.148	-.201	-.213	-.218	-.181	-.120
106	25.0	-.185	-.259	-.289	-.305	-.272	-.221
107	41.0	-.210	-.291	-.341	-.421	-.409	-.343
108	52.5	-.180	-.255	-.300	-.433	-.480	-.421
109	62.5	-.121	-.170	-.191	-.245	-.505	-.471
110	72.5	-.024	-.049	-.055	-.060	-.311	-.403
111	85.1	.071	.070	.071	.069	.020	-.126
112	94.6	.166	.270	.175	.179	.161	.072
113	3.0	-.100	-.161	-.185	-.205	-.171	-.114
114	10.0	-.125	-.175	-.210	-.229	-.197	-.141
115	25.0	-.190	-.268	-.309	-.351	-.330	-.272
116	41.0	--	--	--	--	--	--
117	52.5	-.171	-.234	-.269	-.378	-.537	-.495
118	62.5	-.110	-.160	-.179	-.150	-.500	-.490
119	72.5	-.009	-.020	-.019	-.019	-.151	-.485
120	87.4	.111	.115	.121	.121	.070	-.119
121	94.2	.154	.160	.169	.160	.120	.107
122	3.0	-.100	-.150	-.163	-.202	-.200	-.155
123	10.0	-.151	-.210	-.230	-.272	-.250	-.212
124	25.0	-.187	-.252	-.280	-.340	-.362	-.331
125	41.0	-.195	-.259	-.284	-.340	-.459	-.445
126	52.5	-.150	-.201	-.222	-.276	-.402	-.471
127	62.5	-.111	-.160	-.180	-.188	-.362	-.445
128	72.5	-.034	.018	.029	.010	-.019	-.393
129	78.0	.059	.060	.070	.061	.059	-.290
130	85.3	.122	.140	.155	.148	.133	-.149
131	94.1	.170	.193	.209	.188	.160	.025
132	3.0	-.118	-.169	-.180	-.229	-.239	-.194
133	10.0	-.142	-.198	-.219	-.262	-.260	-.218
134	25.0	-.183	-.250	-.271	-.325	-.373	-.349
135	41.0	-.191	-.256	-.281	-.340	-.465	-.455
136	52.5	-.164	-.215	-.234	-.278	-.430	-.542
137	62.5	-.092	-.120	-.125	-.132	-.204	-.505
138	72.5	.009	.009	.019	.012	-.018	-.329
139	83.4	.075	.088	.099	.095	.079	-.125
140	94.0	.119	.131	.149	.145	.138	.045
141	3.0	-.096	-.137	-.142	-.188	-.213	-.179
142	10.0	-.159	-.211	-.235	-.278	-.299	-.261
143	25.0	-.185	-.250	-.275	-.330	-.417	-.408
144	41.0	-.189	-.249	-.269	-.322	-.429	-.495
145	52.5	-.146	-.191	-.209	-.260	-.383	-.509
146	62.5	-.100	-.162	-.160	-.205	-.295	-.506
147	72.5	.052	.070	.080	.062	-.010	-.412
148	84.0	.142	.162	.180	.170	.131	-.209
149	92.0	.119	.198	.154	.132	.085	-.092
150	3.0	-.116	-.167	-.174	-.221	-.279	-.249
151	10.0	-.154	-.219	-.238	-.270	-.290	-.265
152	25.0	-.190	-.260	-.290	-.382	-.479	-.460
153	41.0	-.180	-.228	-.240	-.289	-.420	-.529
154	52.5	-.128	-.162	-.173	-.230	-.389	-.512
155	62.5	-.080	-.141	-.125	-.012	-.071	-.455
156	72.5	.050	.062	.060	.060	.065	-.309
157	84.9	.120	.148	.182	.158	.121	-.010

NACA

[redacted]

TABLE 9

[$\Lambda = 30^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = 2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-0.300	-0.223	-0.175	-0.105	-0.060	0
2	6.0	-.310	-.260	-.248	-.204	-.155	-.036
3	15.0	-.285	-.290	-.269	-.233	-.188	-.130
4	27.5	-.291	-.325	-.310	-.280	-.232	-.172
5	40.0	--	--	--	--	--	--
6	50.0	--	--	--	--	--	--
7	59.0	--	--	--	--	--	--
8	67.5	--	--	--	--	--	--
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.351	-.281	-.222	-.151	-.098	-.040
13	6.0	-.363	-.350	-.310	-.260	-.214	-.150
14	15.0	-.363	-.385	-.360	-.316	-.270	-.210
15	27.5	-.385	-.449	-.430	-.390	-.348	-.288
16	40.0	-.410	-.530	-.532	-.485	-.440	-.372
17	50.0	-.395	-.543	-.600	-.560	-.516	-.452
18	59.0	-.346	-.510	-.619	-.590	-.545	-.500
19	67.5	-.270	-.490	-.604	-.602	-.562	-.490
20	77.5	-.189	-.252	-.363	-.577	-.599	-.488
21	88.0	-.075	-.056	-.147	-.280	-.435	-.420
22	95.3	--	--	--	--	--	--
C23	2.0	-.400	-.330	-.254	-.175	-.112	-.054
24	6.0	-.400	-.399	-.350	-.290	-.239	-.180
25	15.0	-.410	-.456	-.432	-.380	-.332	-.270
26	27.5	-.429	-.530	-.520	-.475	-.430	-.369
27	40.0	-.448	-.615	-.636	-.582	-.540	-.463
28	50.0	-.414	-.578	-.700	-.662	-.612	-.547
29	59.0	-.370	-.540	-.692	-.720	-.700	-.631
30	67.5	--	--	--	--	--	--
31	77.5	-.140	-.179	-.162	-.625	-.646	-.600
32	88.0	-.014	-.020	-.026	-.099	-.272	-.444
33	95.3	.072	.080	.070	.031	-.070	-.080
D34	2.0	-.483	-.428	-.340	-.239	-.170	-.110
35	15.0	-.435	-.518	-.485	-.425	-.378	-.318
36	27.5	-.441	-.580	-.582	-.532	-.490	-.420
37	40.0	-.461	-.655	-.705	-.650	-.603	-.532
38	50.0	-.425	-.591	-.661	-.638	-.675	-.624
39	59.0	-.360	-.512	-.634	-.612	-.620	-.651
40	67.5	-.249	-.329	-.572	-.565	-.630	-.625
41	77.5	-.125	-.110	-.216	-.390	-.510	-.621
42	87.5	-.005	.020	-.014	-.249	-.375	-.485
43	94.2	.080	.110	.072	-.131	-.284	-.370
E44	2.0	-.478	-.412	-.320	-.213	-.111	-.060
45	6.0	-.452	-.481	-.432	-.361	-.279	-.231
46	15.0	-.435	-.521	-.502	-.441	-.378	-.331
47	27.5	-.440	-.570	-.592	-.551	-.491	-.450
48	40.0	-.450	-.617	-.706	-.660	-.600	-.552
49	50.0	-.411	-.552	-.719	-.678	-.665	-.650
50	59.0	-.350	-.511	-.590	-.514	-.563	-.653
51	67.5	-.249	-.236	-.329	-.401	-.440	-.574
52	77.5	-.098	-.082	-.103	-.278	-.324	-.470
53	88.5	.128	.150	.080	-.145	-.240	-.274
54	95.5	.120	.143	.125	-.074	-.195	-.209
F55	2.0	-.510	-.458	-.371	-.258	-.147	-.090
56	6.0	-.460	-.491	-.450	-.370	-.281	-.231
57	15.0	-.440	-.540	-.528	-.468	-.393	-.350
58	27.5	-.440	-.576	-.618	-.577	-.511	-.459
59	49.0	-.450	-.610	-.730	-.690	-.624	-.580
60	50.0	-.402	-.540	-.682	-.698	-.706	-.675
61	59.0	-.348	-.497	-.682	-.684	-.668	-.662
62	67.5	-.230	-.213	-.181	-.593	-.661	-.668
63	86.5	--	--	--	--	--	--
64	94.6	--	--	--	--	--	--
G65	2.0	-.511	-.478	-.400	-.273	-.146	-.084
66	6.0	-.471	-.540	-.514	-.430	-.324	-.272
67	15.0	-.430	-.539	-.540	-.483	-.408	-.361
68	27.5	-.425	-.560	-.622	-.600	-.531	-.490
69	40.0	-.432	-.566	-.651	-.550	-.551	-.565
70	50.0	-.396	-.502	-.600	-.542	-.542	-.578
71	59.0	-.338	-.471	-.592	-.482	-.490	-.560
72	67.5	-.280	-.228	-.224	-.342	-.411	-.506
73	77.5	-.070	-.049	-.020	-.211	-.318	-.423
74	87.2	--	--	--	--	--	--
75	96.8	.110	.140	.160	.038	-.061	-.130
H76	2.0	-.465	-.502	-.452	-.330	-.202	-.132
77	6.0	-.451	-.580	-.568	-.502	-.393	-.330
78	15.0	-.382	-.507	-.591	-.531	-.462	-.410
79	27.5	-.380	-.490	-.632	-.637	-.573	-.450
80	40.0	-.361	-.472	-.560	-.570	-.554	-.423
81	50.0	-.349	-.411	-.500	-.550	-.538	-.308
82	59.0	-.290	-.380	-.272	-.206	-.252	-.296
83	67.5	-.171	-.083	-.070	-.092	-.170	-.253
84	88.3	.035	.077	.093	.023	-.090	-.176
85	94.2	.080	.120	.138	.056	-.070	-.157

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	-0.164	0.179	0.179	0.179	0.195	0.225
87	10.0	--	--	--	--	--	--
88	25.0	-.046	-.051	-.051	-.050	-.031	.002
89	41.0	--	--	--	--	--	--
90	52.5	--	--	--	--	--	--
91	62.5	--	--	--	--	--	--
92	72.5	--	--	--	--	--	--
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.152	.152	.149	.139	.150	.184
96	10.0	.010	.009	.003	.004	.020	.058
97	25.0	-.090	-.111	-.121	-.130	-.119	-.079
98	41.0	-.140	-.179	-.201	-.230	-.230	-.191
99	52.5	-.130	-.179	-.211	-.271	-.289	-.248
100	62.5	-.092	-.129	-.160	-.209	-.329	-.310
101	72.5	-.032	-.051	-.079	-.110	-.225	-.260
102	86.3	.050	.040	.030	.001	-.050	-.158
103	94.5	--	--	--	--	--	--
104	3.0	.170	.150	.141	.115	.125	.157
105	10.0	.016	-.007	-.020	-.031	-.021	.018
106	25.0	-.097	-.130	-.151	-.176	-.171	-.135
107	41.0	-.148	-.119	-.232	-.290	-.319	-.272
108	52.5	-.140	-.182	-.220	-.278	-.390	-.359
109	62.5	-.091	-.125	-.150	-.200	-.370	-.409
110	72.5	-.010	-.020	-.035	-.061	-.149	-.310
111	85.1	.077	.181	.081	.078	.029	-.021
112	94.6	.165	.279	.180	.166	.141	.096
113	3.0	.183	.256	.129	.091	.081	.120
114	10.0	.038	.010	-.010	-.038	-.040	-.003
115	25.0	-.090	-.130	-.160	-.202	-.221	-.166
116	41.0	--	--	--	--	--	--
117	52.5	-.128	-.168	-.200	-.254	-.410	-.425
118	62.5	-.080	-.106	-.131	-.181	-.351	-.430
119	72.5	.009	.009	-.004	-.030	-.070	-.370
120	87.4	.120	.130	.129	.100	.069	.032
121	94.2	.150	.170	.160	.115	.059	.077
122	3.0	.208	.181	.160	.122	.065	.098
123	10.0	.033	.010	-.032	-.045	-.072	-.065
124	25.0	-.073	-.110	-.133	-.171	-.220	-.210
125	41.0	-.117	-.151	-.179	-.274	-.335	-.364
126	52.5	-.090	-.120	-.140	-.180	-.261	-.395
127	62.5	-.060	-.080	-.100	-.148	-.240	-.350
128	72.5	-.020	-.050	-.070	-.113	-.105	-.293
129	78.0	.058	.120	.115	.075	.023	-.140
130	85.3	.150	.172	.170	.130	.069	.045
131	94.1	.180	.211	.203	.138	.085	.070
132	3.0	.203	.180	.155	.110	.065	.068
133	10.0	.044	.022	-.002	-.039	-.079	-.075
134	25.0	-.070	-.100	-.128	-.170	-.221	-.220
135	41.0	-.111	-.150	-.178	-.230	-.328	-.370
136	52.5	-.102	-.134	-.160	-.220	-.322	-.453
137	62.5	-.051	-.070	-.089	-.139	-.230	-.417
138	72.5	.035	.045	.038	-.002	-.040	-.181
139	83.4	.092	.110	.103	.065	.030	-.020
140	94.0	.125	.152	.140	.085	.040	.009
141	3.0	.226	.210	.192	.145	.090	.080
142	10.0	.036	.012	-.008	-.053	-.107	-.104
143	25.0	-.070	-.100	-.126	-.179	-.240	-.260
144	41.0	-.111	-.150	-.179	-.245	-.355	-.403
145	52.5	-.090	-.112	-.139	-.220	-.302	-.439
146	62.5	-.045	-.070	-.109	-.160	-.263	-.429
147	72.5	-.010	-.030	-.029	-.008	-.070	-.331
148	84.0	.174	.195	.190	.152	.121	-.050
149	92.0	.129	.156	.145	.075	.035	-.024
150	3.0	.180	.172	.155	.103	.049	.035
151	10.0	.000	-.020	-.043	-.089	-.120	-.119
152	25.0	-.101	-.141	-.183	-.255	-.325	-.344
153	41.0	-.125	-.161	-.199	-.274	-.432	-.490
154	52.5	-.098	-.110	-.134	-.195	-.359	-.523
155	62.5	-.040	-.062	-.079	-.145	-.269	-.499
156	72.5	.038	.078	.048	.021	.018	-.300
157	84.9	.120	.150	.165	.092	.015	-.065

NACA

[redacted]

TABLE 10

[$\Lambda = 30^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = 4^\circ$]

[redacted]

Tube	Percent chord	Upper surface, Mach number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-0.750	-0.640	-0.571	-0.458	-0.371	-0.288
2	6.0	-.578	-.550	-.510	-.430	-.367	-.292
3	15.0	-.435	-.450	-.422	-.370	-.325	-.251
4	27.5	-.400	-.458	-.420	-.360	-.310	-.258
5	40.0	--	--	--	--	--	--
6	50.0	--	--	--	--	--	--
7	59.0	--	--	--	--	--	--
8	67.5	--	--	--	--	--	--
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.843	-.770	-.670	-.533	-.430	-.340
13	6.0	-.654	-.660	-.622	-.540	-.465	-.381
14	15.0	-.525	-.571	-.535	-.470	-.420	-.339
15	27.5	-.492	-.591	-.569	-.505	-.450	-.383
16	40.0	-.490	-.670	-.640	-.585	-.535	-.458
17	50.0	-.453	-.709	-.703	-.649	-.592	-.521
18	59.0	-.391	-.658	-.725	-.671	-.622	-.562
19	67.5	-.310	-.457	-.730	-.681	-.630	-.557
20	77.5	-.220	-.290	-.405	-.660	-.625	-.550
21	88.0	-.100	-.151	-.250	-.391	-.515	-.502
22	95.3	--	--	--	--	--	--
C23	2.0	-.930	-.830	-.690	-.542	-.433	-.342
24	6.0	-.718	-.760	-.720	-.612	-.526	-.438
25	15.0	-.582	-.660	-.610	-.540	-.472	-.402
26	27.5	-.542	-.700	-.771	-.610	-.542	-.480
27	40.0	-.533	-.788	-.760	-.690	-.626	-.540
28	50.0	-.471	-.802	-.815	-.770	-.710	-.605
29	59.0	-.403	-.720	-.825	-.799	-.773	-.700
30	67.5	--	--	--	--	--	--
31	77.5	-.170	-.180	-.264	-.731	-.727	-.680
32	88.0	-.035	-.040	-.096	-.231	-.382	-.522
33	95.3	.050	.011	.000	-.100	-.200	-.140
D34	2.0	-1.040	-.939	-.760	-.590	-.460	-.370
35	15.0	-.610	-.760	-.700	-.610	-.538	-.460
36	27.5	-.560	-.790	-.760	-.694	-.627	-.547
37	40.0	-.547	-.870	-.829	-.760	-.704	-.630
38	50.0	-.487	-.821	-.782	-.721	-.743	-.707
39	59.0	-.391	-.671	-.730	-.660	-.729	-.712
40	67.5	-.277	-.252	-.685	-.600	-.703	-.701
41	77.5	-.150	-.130	-.270	-.479	-.611	-.700
42	87.5	-.018	.015	-.132	-.369	-.489	-.587
43	94.2	.053	.000	-.040	-.295	-.416	-.481
E44	2.0	-1.100	-1.011	-.787	-.603	-.460	-.364
45	6.0	-.800	-1.038	-.880	-.731	-.609	-.520
46	15.0	-.601	-.826	-.778	-.688	-.582	-.513
47	27.5	-.550	-.798	-.780	-.712	-.640	-.572
48	40.0	-.523	-.840	-.802	-.709	-.690	-.661
49	50.0	-.460	-.690	-.772	-.688	-.673	-.700
50	59.0	-.370	-.380	-.631	-.561	-.610	-.662
51	67.5	-.252	-.245	-.397	-.430	-.512	-.480
52	77.5	-.110	-.091	-.208	-.338	-.413	-.500
53	88.5	.050	.097	-.061	-.257	-.344	-.430
54	95.5	.090	.128	-.011	-.218	-.303	-.402
F55	2.0	-1.117	-1.053	-.824	-.644	-.500	-.400
56	6.0	-.840	-1.077	-.902	-.745	-.611	-.518
57	15.0	-.610	-.878	-.840	-.721	-.609	-.531
58	27.5	-.560	-.818	-.803	-.732	-.653	-.590
59	40.0	-.522	-.838	-.870	-.821	-.753	-.684
60	50.0	-.450	-.651	-.811	-.781	-.790	-.765
61	59.0	-.352	-.328	-.792	-.712	-.751	-.751
62	67.5	-.233	-.220	-.202	-.310	-.491	-.727
63	86.6	--	--	--	--	--	--
64	94.6	--	--	--	--	--	--
G65	2.0	-1.152	-1.081	-.828	-.642	-.492	-.380
66	6.0	-.828	-1.122	-.931	-.774	-.624	-.520
67	15.0	-.596	-1.002	-.900	-.780	-.650	-.557
68	27.5	-.534	-.860	-.849	-.721	-.660	-.610
69	40.0	-.504	-.719	-.802	-.604	-.630	-.602
70	50.0	-.435	-.442	-.716	-.564	-.568	-.595
71	59.0	-.330	-.324	-.437	-.420	-.481	-.553
72	67.5	-.221	-.208	-.283	-.357	-.423	-.510
73	77.5	-.091	-.058	-.142	-.296	-.372	-.453
74	87.2	--	--	--	--	--	--
75	96.8	.019	.126	.077	-.111	-.229	-.310
H76	2.0	-.985	-1.117	-.870	-.670	-.510	-.396
77	6.0	-.740	-1.110	-.948	-.783	-.651	-.544
78	15.0	-.510	-.938	-.928	-.813	-.700	-.604
79	27.5	-.460	-.886	-.793	-.700	-.615	-.552
80	40.0	-.431	-.402	-.658	-.602	-.512	-.545
81	50.0	-.371	-.394	-.348	-.383	-.418	-.472
82	59.0	-.270	-.268	-.192	-.279	-.334	-.392
83	67.5	-.156	-.138	-.110	-.217	-.290	-.350
84	88.3	.035	.069	.040	-.091	-.192	-.292
85	94.2	.079	.117	.070	-.066	-.169	-.281

Tube	Percent chord	Lower surface, Mach number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.378	0.379	0.380	0.370	0.400	0.402
87	10.0	--	--	--	--	--	--
88	25.0	.045	.049	.050	.047	.055	.092
89	41.0	--	--	--	--	--	--
90	52.5	--	--	--	--	--	--
91	62.5	--	--	--	--	--	--
92	72.5	--	--	--	--	--	--
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.362	.360	.352	.336	.358	.361
96	10.0	.150	.150	.149	.140	.150	.177
97	25.0	.005	-.005	-.011	-.024	-.030	.019
98	41.0	-.070	-.091	-.111	-.138	-.163	-.108
99	52.5	-.080	-.110	-.135	-.180	-.237	-.169
100	62.5	-.053	-.079	-.102	-.148	-.227	-.211
101	72.5	.000	-.015	-.039	-.080	-.150	-.148
102	86.3	.070	.069	.042	.009	-.037	-.060
103	94.5	--	--	--	--	--	--
104	3.0	.381	.365	.347	.321	.332	.341
105	10.0	.160	.150	.137	.119	.120	.150
106	25.0	.002	-.020	-.035	-.060	-.079	-.034
107	41.0	-.078	-.110	-.140	-.182	-.238	-.181
108	52.5	-.085	-.120	-.149	-.204	-.302	-.288
109	62.5	-.052	-.079	-.103	-.157	-.257	-.292
110	72.5	.011	.010	-.011	-.055	-.119	-.135
111	85.1	.082	.100	.082	.040	.019	.047
112	94.6	.157	.181	.169	.132	.100	.119
113	3.0	.400	.375	.348	.310	.307	.310
114	10.0	.185	.180	.150	.119	.102	.130
115	25.0	.010	-.011	-.040	-.080	-.120	-.080
116	41.0	--	--	--	--	--	--
117	52.5	-.071	-.101	-.138	-.200	-.311	-.325
118	62.5	-.040	-.050	-.083	-.146	-.240	-.271
119	72.5	.030	.039	.010	-.040	-.090	-.046
120	87.4	.125	.144	.122	.072	.040	.090
121	94.2	.138	.170	.130	.046	.000	.060
122	3.0	.430	.403	.370	.331	.300	.293
123	10.0	.189	.179	.145	.114	.087	.080
124	25.0	.030	.004	-.019	-.059	-.094	-.100
125	41.0	-.045	-.069	-.101	-.155	-.210	-.250
126	52.5	-.040	-.054	-.089	-.149	-.195	-.249
127	62.5	-.028	-.030	-.065	-.129	-.188	-.220
128	72.5	.024	.015	-.021	-.080	-.135	-.172
129	78.0	.043	.043	.009	-.055	-.101	-.072
130	85.3	.140	.195	.160	.088	.061	.050
131	94.1	.175	.212	.159	.075	.050	.038
132	3.0	.430	.409	.370	.326	.288	.272
133	10.0	.200	.188	.155	.120	.088	.078
134	25.0	.030	.015	-.015	-.060	-.095	-.109
135	41.0	-.040	-.065	-.103	-.161	-.215	-.247
136	52.5	-.050	-.072	-.112	-.182	-.238	-.299
137	62.5	-.020	-.022	-.062	-.133	-.208	-.264
138	72.5	.045	.065	.030	-.039	-.079	-.103
139	83.4	.106	1.122	.085	.085	-.015	-.039
140	94.0	.110	.143	.085	-.010	-.069	-.115
141	3.0	.448	.432	.390	.347	.299	.290
142	10.0	.190	.180	.145	.098	.059	.049
143	25.0	.030	.018	-.023	-.078	-.122	-.131
144	41.0	-.048	-.070	-.112	-.185	-.265	-.300
145	52.5	-.045	-.059	-.104	-.179	-.260	-.373
146	62.5	-.006	.010	-.050	-.120	-.196	-.305
147	72.5	.039	.125	-.020	-.090	-.173	-.275
148	84.0	.190	.235	.210	.160	.115	.079
149	92.0	.116	.155	.112	.028	-.021	-.069
150	3.0	.390	.383	.341	.290	.249	.231
151	10.0	.132	.123	.081	.038	.009	.003
152	25.0	-.025	-.055	-.105	-.175	-.220	-.227
153	41.0	-.080	-.116	-.171	-.268	-.380	-.405
154	52.5	-.068	-.090	-.132	-.220	-.370	-.410
155	62.5	-.020	-.029	-.069	-.151	-.305	-.460
156	72.5	.020	.041	.012	-.045	-.085	-.295
157	84.9	.098	.145	.089	-.008	-.070	-.203

NACA

[redacted]

TABLE 11

[$\Lambda = 30^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = 7^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-1.990	-1.400	-1.150	-0.965	-0.835	-0.720
2	6.0	-.329	-1.252	-1.049	-.905	-.608	-.670
3	15.0	-.664	-.725	-.649	-.560	-.503	-.441
4	27.5	-.558	-.640	-.570	-.520	-.458	-.398
5	40.0	--	--	--	--	--	--
6	50.0	--	--	--	--	--	--
7	59.0	--	--	--	--	--	--
8	67.5	--	--	--	--	--	--
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-1.942	-1.450	-1.182	-1.000	-.860	-.731
13	6.0	-1.146	-1.345	-1.155	-1.001	-.880	-.768
14	15.0	-.762	-1.090	-1.010	-.891	-.772	-.655
15	27.5	-.690	-.775	-.720	-.675	-.610	-.527
16	40.0	-.602	-.830	-.783	-.719	-.652	-.580
17	50.0	-.539	-.875	-.823	-.760	-.691	-.609
18	59.0	-.453	-.850	-.860	-.801	-.740	-.648
19	67.5	-.360	-.531	-.850	-.785	-.724	-.651
20	77.5	-.251	-.331	-.618	-.780	-.723	-.638
21	88.0	-.151	-.170	-.380	-.545	-.632	-.599
22	95.3	--	--	--	--	--	--
C23	2.0	-2.092	-1.460	-1.179	-.984	-.830	-.692
24	6.0	-1.331	-1.410	-1.180	-1.020	-.890	-.773
25	15.0	-.838	-1.270	-1.090	-.970	-.864	-.560
26	27.5	-.702	-.869	-1.002	-.900	-.802	-.700
27	40.0	-.636	-.950	-.865	-.770	-.725	-.668
28	50.0	-.560	-.993	-.935	-.863	-.765	-.704
29	59.0	-.441	-.628	-1.020	-.939	-.860	-.767
30	67.5	--	--	--	--	--	--
31	77.5	-.185	-.215	-.400	-.645	-.855	-.772
32	88.0	-.070	-.097	-.300	-.390	-.477	-.431
33	95.3	-.017	-.025	-.170	-.280	-.312	-.267
D34	2.0	-1.927	-1.489	-1.200	-.998	-.836	-.700
35	15.0	-.930	-1.335	-1.150	-1.010	-.890	-.778
36	27.5	-.708	-1.280	-1.140	-1.030	-.924	-.811
37	40.0	-.629	-1.189	-1.088	-.970	-.950	-.844
38	50.0	-.530	-.960	-1.062	-.960	-.923	-.827
39	59.0	-.434	-.380	-.560	-.870	-.868	-.828
40	67.5	-.292	-.220	-.321	-.691	-.900	-.850
41	77.5	-.156	-.125	-.269	-.429	-.852	-.820
42	87.5	-.047	-.060	-.261	-.355	-.559	-.697
43	94.2	.006	-.033	-.252	-.350	-.400	-.413
E44	2.0	-1.830	-1.520	-1.250	-1.023	-.865	-.720
45	6.0	-1.639	-1.452	-1.221	-1.040	-.900	-.772
46	15.0	-1.000	-1.335	-1.160	-1.002	-.890	-.782
47	27.5	-.678	-1.258	-1.088	-.949	-.904	-.822
48	40.0	-.582	-.998	-.960	-.882	-.870	-.868
49	50.0	-.487	-.651	-.681	-.660	-.838	-.896
50	59.0	-.371	-.469	-.583	-.562	-.744	-.882
51	67.5	-.260	-.300	-.504	-.510	-.653	-.850
52	77.5	-.130	-.135	-.410	-.461	-.590	-.821
53	88.5	.000	.055	-.250	-.399	-.520	-.691
54	95.5	.030	.079	-.168	-.370	-.481	-.531
F55	2.0	-1.754	-1.534	-1.262	-1.030	-.858	-.704
56	6.0	-1.638	-1.468	-1.228	-1.047	-.900	-.771
57	15.0	-1.052	-1.340	-1.163	-1.011	-.898	-.782
58	27.5	-.686	-1.262	-1.088	-1.011	-.919	-.828
59	49.0	-.570	-.912	-.993	-.958	-.891	-.878
60	50.0	-.470	-.664	-.802	-.878	-.878	-.910
61	59.0	-.368	-.410	-.480	-.520	-.817	-.918
62	67.5	-.240	-.244	-.360	-.395	-.640	-.910
63	88.5	--	--	--	--	--	--
64	94.6	--	--	--	--	--	--
G65	2.0	-1.595	-1.543	-1.278	-1.039	-.852	-.673
66	6.0	-1.482	-1.423	-1.226	-1.060	-.904	-.769
67	15.0	-1.071	-1.324	-1.114	-.963	-.880	-.782
68	27.5	-.690	-.997	-.983	-.908	-.814	-.814
69	40.0	-.530	-.664	-.700	-.710	-.761	-.832
70	50.0	-.420	-.518	-.588	-.582	-.640	-.845
71	59.0	-.311	-.412	-.501	-.523	-.570	-.841
72	67.5	-.212	-.324	-.420	-.490	-.541	-.830
73	77.5	-.120	-.212	-.320	-.438	-.508	-.798
74	87.2	--	--	--	--	--	--
75	96.8	.038	-.030	-.118	-.277	-.371	-.600
H76	2.0	-1.460	-.910	-.900	-.870	-.850	-.685
77	6.0	-1.260	-.846	-.852	-.859	-.848	-.768
78	15.0	-.802	-.728	-.706	-.711	-.782	-.801
79	27.5	-.550	-.601	-.554	-.523	-.665	-.762
80	40.0	-.429	-.510	-.490	-.452	-.520	-.798
81	50.0	-.335	-.438	-.438	-.413	-.460	-.778
82	59.0	-.242	-.372	-.390	-.384	-.430	-.760
83	67.5	-.158	-.319	-.338	-.353	-.402	-.724
84	88.3	-.030	-.218	-.266	-.312	-.380	-.703
85	94.2	-.008	-.188	-.245	-.301	-.370	-.670

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.572	0.585	0.568	0.062		0.600
87	10.0	--	--	--	--		--
88	25.0	.165	.176	.168	.169		.215
89	41.0	--	--	--	--		--
90	52.5	--	--	--	--		--
91	62.5	--	--	--	--		--
92	72.5	--	--	--	--		--
93	84.0	--	--	--	--		--
94	94.0	--	--	--	--		--
95	3.0	.565	.556	.530	.523		.553
96	10.0	.320	.319	.300	.294		.338
97	25.0	.130	.128	.108	.100		.140
98	41.0	.025	.010	-.011	-.028		.006
99	52.5	-.005	.021	-.052	-.090		-.055
100	62.5	-.010	.010	-.042	-.072		-.062
101	72.5	-.041	.034	.000	-.030		-.039
102	86.3	-.101	.100	.065	.032		.048
103	94.5	--	--	--	--		--
104	3.0	.582	.545	.522	.510		.588
105	10.0	.330	.315	.290	.278		.306
106	25.0	.130	.110	.088	.070		.097
107	41.0	.018	-.010	-.041	-.070		-.060
108	52.5	-.010	-.041	-.078	-.113		-.123
109	62.5	.007	-.021	-.061	-.099		-.110
110	72.5	.050	.040	.003	-.032		-.031
111	85.1	.100	.100	.065	.030		.063
112	94.6	.150	.160	.116	.072		.089
113	3.0	.595	.558	.518	.493		.498
114	10.0	.355	.329	.291	.272		.288
115	25.0	.139	.110	.078	.050		.060
116	41.0	--	--	--	--		--
117	52.5	.000	-.040	-.089	-.094		-.160
118	62.5	.015	-.013	-.069	-.072		-.136
119	72.5	.065	.050	-.002	-.017		-.124
120	87.4	.130	.125	.072	.048		.072
121	94.2	.130	.112	.031	.011		.030
122	3.0	.610	.569	.540	.510	0.485	.465
123	10.0	.350	.330	.290	.260	.238	.225
124	25.0	.150	.125	.095	.050	.040	.029
125	41.0	.040	.015	-.025	-.069	-.100	-.119
126	52.5	.023	-.002	-.048	-.100	-.130	-.136
127	62.5	.017	-.009	-.059	-.123	-.164	-.185
128	72.5	.060	.050	-.001	-.063	-.099	-.115
129	78.0	.080	.092	.040	-.029	-.060	-.075
130	85.3	.135	.151	.101	.039	.030	.040
131	94.1	.150	.179	.109	.020	.019	.040
132	3.0	.614	.569	.538	.500	.475	.449
133	10.0	.363	.330	.300	.265	.240	.221
134	25.0	.150	.125	.090	.053	.030	.018
135	41.0	.048	.013	-.030	-.081	-.118	-.130
136	52.5	.017	-.019	-.069	-.135	-.180	-.215
137	62.5	.024	.003	-.051	-.115	-.159	-.189
138	72.5	.070	.069	.015	-.045	-.070	-.069
139	83.4	.101	.089	.021	-.030	-.050	-.052
140	94.0	.090	.078	-.031	-.110	-.138	-.134
141	3.0	.610	.570	.539	.500	.468	.438
142	10.0	.344	.309	.275	.235	.205	.180
143	25.0	.142	.109	.070	.024	-.005	-.028
144	41.0	.030	-.019	-.065	-.125	-.175	-.203
145	52.5	.008	-.041	-.095	-.161	-.223	-.265
146	62.5	.028	.013	-.060	-.123	-.189	-.241
147	72.5	.059	.021	-.029	-.081	-.135	-.179
148	84.0	.169	.151	.120	.081	.039	.025
149	92.0	.082	.041	-.015	-.063	-.099	-.099
150	3.0	.544	.498	.470	.430	.403	.375
151	10.0	.266	.220	.190	.150	.129	.110
152	25.0	.060	.003	-.041	-.099	-.129	-.141
153	41.0	-.028	-.105	-.160	-.245	-.309	-.328
154	52.5	-.038	-.119	-.169	-.257	-.380	-.430
155	62.5	-.004	-.080	-.121	-.199	-.303	-.399
156	72.5	.014	-.060	-.089	-.143	-.209	-.301
157	84.9	.031	-.093	-.140	-.195	-.259	-.270

NACA

[redacted]

TABLE 12

$[\Lambda = 30^\circ, \delta_{a_n} = 0^\circ, \alpha = 10^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80				
A 1	2.0	-2.177	-1.675				
2	6.0	-1.902	-1.590				
3	15.0	-.717	-1.040				
4	27.5	-.670	-.845				
5	40.0	--	--				
6	50.0	--	--				
7	59.0	--	--				
8	67.5	--	--				
9	77.5	--	--				
10	87.5	--	--				
11	96.0	--	--				
B12	2.0	-1.454	-1.670				
13	6.0	-1.421	-1.615				
14	15.0	-1.428	-1.562				
15	27.5	-.981	-1.095				
16	40.0	-.630	-.966				
17	50.0	-.600	-.980				
18	59.0	-.524	-.701				
19	67.5	-.411	-.450				
20	77.5	-.300	-.320				
21	88.0	-.190	-.183				
22	95.3	--	--				
C23	2.0	-1.128	-1.670				
24	6.0	-1.119	-1.622				
25	15.0	-1.110	-1.500				
26	27.5	-1.060	-1.400				
27	40.0	-.920	-1.000				
28	50.0	-.756	-.748				
29	59.0	-.608	-.510				
30	67.5	--	--				
31	77.5	-.318	-.260				
32	88.0	-.147	-.145				
33	95.3	-.050	-.090				
D34	2.0	-.964	-1.490				
35	15.0	-.948	-1.230				
36	27.5	-.880	-.998				
37	40.0	-.780	-.845				
38	50.0	-.700	-.728				
39	59.0	-.624	-.615				
40	67.5	-.560	-.560				
41	77.5	-.476	-.490				
42	87.5	-.380	-.410				
43	94.2	-.318	-.755				
E44	2.0	-.772	-.838				
45	6.0	-.754	-.821				
46	15.0	-.754	-.823				
47	27.5	-.711	-.805				
48	40.0	-.642	-.766				
49	50.0	-.589	-.718				
50	59.0	-.544	-.668				
51	67.5	-.504	-.608				
52	77.5	-.460	-.541				
53	88.5	-.405	-.470				
54	95.5	-.380	-.439				
F55	2.0	-.691	-.960				
56	6.0	-.680	-.921				
57	15.0	-.665	-.852				
58	27.5	-.628	-.702				
59	49.0	-.570	-.614				
60	50.0	-.522	-.578				
61	59.0	-.492	-.523				
62	67.5	-.470	-.517				
63	86.5	--	--				
64	94.6	--	--				
G65	2.0	-.626	-.756				
66	6.0	-.600	-.720				
67	15.0	-.568	-.678				
68	27.5	-.530	-.621				
69	40.0	-.485	-.559				
70	50.0	-.450	-.512				
71	59.0	-.428	-.498				
72	67.5	-.411	-.473				
73	77.5	-.396	-.451				
74	87.2	--	--				
75	96.8	-.274	-.313				
H76	2.0	-.596	-.537				
77	6.0	-.560	-.523				
78	15.0	-.510	-.483				
79	27.5	-.461	-.450				
80	40.0	-.420	-.444				
81	50.0	-.388	-.430				
82	59.0	-.361	-.416				
83	67.5	-.332	-.400				
84	88.3	-.298	-.353				
85	94.2	-.281	-.339				

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80				
86	3.0	0.690	0.702				
87	10.0	--	--				
88	25.0	.260	.260				
89	41.0	--	--				
90	52.5	--	--				
91	62.5	--	--				
92	72.5	--	--				
93	84.0	--	--				
94	94.0	--	--				
95	3.0	.663	.660				
96	10.0	.420	.427				
97	25.0	.213	.219				
98	41.0	.090	.087				
99	52.5	.048	.038				
100	62.5	.040	.033				
101	72.5	.070	.067				
102	86.3	.110	.112				
103	94.5	--	--				
104	3.0	.650	.652				
105	10.0	.411	.420				
106	25.0	.200	.200				
107	41.0	.065	.060				
108	52.5	.020	.010				
109	62.5	.020	.009				
110	72.5	.055	.050				
111	85.1	.090	.098				
112	94.6	.140	.130				
113	3.0	.631	.643				
114	10.0	.409	.420				
115	25.0	.180	.184				
116	41.0	--	--				
117	52.5	-.002	-.015				
118	62.5	-.009	-.016				
119	72.5	.021	.023				
120	87.4	.050	.060				
121	94.2	.005	.018				
122	3.0	.636	.650				
123	10.0	.392	.405				
124	25.0	.174	.183				
125	41.0	.040	.040				
126	52.5	-.010	-.013				
127	62.5	-.046	-.059				
128	72.5	-.026	-.031				
129	78.0	-.022	-.021				
130	85.3	.003	.009				
131	94.1	.041	-.043				
132	3.0	.623	.640				
133	10.0	.387	.401				
134	25.0	.160	.170				
135	41.0	.022	.020				
136	52.5	-.034	-.049				
137	62.5	-.051	-.064				
138	72.5	-.029	-.032				
139	83.4	-.040	-.058				
140	94.0	-.149	-.165				
141	3.0	.596	.617				
142	10.0	.340	.355				
143	25.0	.125	.130				
144	41.0	-.018	-.095				
145	52.5	-.061	-.091				
146	62.5	-.045	-.079				
147	72.5	-.051	-.079				
148	84.0	.031	.019				
149	92.0	-.104	-.125				
150	3.0	.520	.520				
151	10.0	.255	.248				
152	25.0	-.040	.003				
153	41.0	-.070	-.131				
154	52.5	-.110	-.169				
155	62.5	-.082	-.143				
156	72.5	-.085	-.135				
157	84.9	-.167	-.235				

[redacted]

TABLE 13

$[\Lambda = 45^\circ, \delta_{a_n} = 0^\circ, \alpha = -2^\circ]$

[redacted]

UPPER SURFACE							
Tube	Per-cent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	0.230	0.251	0.259	0.270	0.275	
2	6.0	.085	.115	.120	.135	.135	
3	15.0	.000	.021	.030	.045	.045	
4	27.5	-.025	-.005	.000	.015	.019	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	-.031	-.021	-.025	-.015	-.018	
15	27.5	-.105	-.100	-.100	-.090	-.090	
16	40.0	-.150	-.153	-.165	-.161	-.160	
17	50.0	-.160	-.171	-.192	-.199	-.200	
18	59.0	-.148	-.151	-.171	-.170	-.071	
19	67.5	--	--	--	--	--	
20	77.5	--	--	--	--	--	
21	88.0	--	--	--	--	--	
22	95.3	--	--	--	--	--	
C23	2.0	.228	.240	.235	.239	.221	
24	6.0	.060	.070	.066	.069	.069	
25	15.0	-.055	-.051	-.067	-.061	-.071	
26	27.5	-.130	-.139	-.151	-.155	-.161	
27	40.0	-.179	-.200	-.226	-.240	-.245	
28	50.0	-.150	-.201	-.249	-.295	-.310	
29	59.0	-.189	-.220	-.266	-.310	-.322	
30	67.5	-.150	-.169	-.213	-.269	-.304	
31	77.5	-.105	-.123	-.153	-.212	-.282	
32	88.0	-.025	-.041	-.060	-.102	-.200	
33	95.3	.084	.045	.009	-.039	-.131	
D34	2.0	.197	.205	.196	.185	.160	
35	15.0	-.060	-.062	-.090	-.109	-.121	
36	27.5	-.130	-.149	-.181	-.205	-.221	
37	40.0	-.181	-.210	-.252	-.305	-.336	
38	50.0	-.190	-.215	-.261	-.330	-.393	
39	59.0	-.090	-.151	-.209	-.270	-.405	
40	67.5	-.124	-.142	-.171	-.180	-.340	
41	77.5	-.073	-.087	-.102	-.110	-.202	
42	87.5	-.003	-.009	-.019	-.014	-.070	
43	94.2	.048	.049	.041	.060	-.003	
E44	2.0	.245	.250	.250	.242	.230	
45	6.0	.058	.054	.050	.040	.028	
46	15.0	-.098	-.072	-.087	-.102	-.121	
47	27.5	-.128	-.150	-.168	-.188	-.222	
48	40.0	-.175	-.205	-.233	-.248	-.320	
49	50.0	-.180	-.210	-.238	-.245	-.338	
50	59.0	-.162	-.190	-.208	-.216	-.274	
51	67.5	-.126	-.130	-.150	-.160	-.163	
52	77.5	-.070	-.054	-.064	-.063	-.053	
53	88.5	.135	.123	.111	.110	.120	
54	95.5	.079	.078	.070	.078	.080	
F55	2.0	.228	.235	.228	.242	.210	
56	6.0	.065	.064	.060	.060	.030	
57	15.0	-.052	-.068	-.080	-.084	-.122	
58	27.5	-.120	-.140	-.162	-.170	-.213	
59	49.0	-.170	-.200	-.230	-.240	-.289	
60	50.0	-.165	-.198	-.227	-.241	-.280	
61	59.0	-.145	-.172	-.190	-.197	-.213	
62	67.5	-.112	-.121	-.132	-.140	-.137	
63	86.5	--	--	--	--	--	
64	94.6	--	--	--	--	--	
G65	2.0	.250	.260	.265	.269	.258	
66	6.0	.080	.080	.080	.080	.074	
67	15.0	-.032	-.042	-.050	-.053	-.068	
68	27.5	-.100	-.120	-.130	-.140	-.150	
69	40.0	-.150	-.172	-.191	-.202	-.210	
70	50.0	-.154	-.180	-.202	-.212	-.212	
71	59.0	-.125	-.150	-.170	-.180	-.174	
72	67.5	-.085	-.117	-.125	-.120	-.110	
73	77.5	-.075	-.042	-.028	-.030	-.028	
74	87.2	--	--	--	--	--	
75	96.8	.086	.090	.089	.098	.100	
H76	2.0	.155	.158	.160	.167	.173	
77	6.0	.010	.000	-.010	-.010	-.006	
78	15.0	-.070	-.094	-.112	-.121	-.116	
79	27.5	-.122	-.153	-.180	-.197	-.203	
80	40.0	-.160	-.192	-.222	-.248	-.252	
81	50.0	-.158	-.181	-.202	-.217	-.238	
82	59.0	-.112	-.133	-.155	-.170	-.190	
83	67.5	-.082	-.110	-.140	-.145	-.148	
84	88.5	.068	.080	.096	.110	.130	
85	94.2	.085	.095	.114	.126	.148	

LOWER SURFACE							
Tube	Per-cent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	-0.301	-0.300	-0.271	-0.241	-0.195	
87	10.0	-.105	-.105	-.080	-.064	-.038	
88	25.0	-.156	-.167	-.158	-.142	-.108	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	-.360	-.400	-.368	-.340	-.290	
96	10.0	-.239	-.258	-.209	-.156	-.139	
97	25.0	-.202	-.232	-.241	-.241	-.205	
98	41.0	-.202	-.240	-.266	-.258	-.233	
99	52.5	-.188	-.233	-.289	-.294	-.270	
100	62.5	--	--	--	--	--	
101	72.5	--	--	--	--	--	
102	86.3	--	--	--	--	--	
103	94.5	--	--	--	--	--	
104	3.0	-.401	-.554	-.448	-.425	-.371	
105	10.0	-.261	-.294	-.306	-.299	-.270	
106	25.0	-.225	-.269	-.305	-.307	-.281	
107	41.0	-.215	-.265	-.333	-.365	-.338	
108	52.5	-.191	-.240	-.300	-.384	-.368	
109	62.5	-.145	-.183	-.230	-.347	-.364	
110	72.5	-.086	-.114	-.146	-.336	-.315	
111	85.1	-.010	-.029	-.046	-.085	-.182	
112	94.6	.040	.031	.018	-.009	-.080	
113	3.0	-.408	-.502	-.542	-.528	-.473	
114	10.0	-.249	-.285	-.301	-.330	-.327	
115	25.0	-.225	-.273	-.313	-.365	-.347	
116	41.0	-.211	-.256	-.302	-.433	-.433	
117	52.5	-.176	-.214	-.245	-.339	-.459	
118	62.5	-.122	-.146	-.161	-.173	-.381	
119	72.5	-.047	-.063	-.071	-.067	-.166	
120	87.4	.051	.035	.036	.039	-.008	
121	94.2	.058	.054	.053	.057	.021	
122	3.0	-.353	-.419	-.487	-.525	-.502	
123	10.0	-.248	-.288	-.303	-.355	-.360	
124	25.0	-.203	-.242	-.273	-.337	-.397	
125	41.0	-.181	-.216	-.241	-.242	-.420	
126	52.5	-.135	-.162	-.184	-.167	-.273	
127	62.5	-.105	-.125	-.144	-.144	-.142	
128	72.5	-.033	-.043	-.052	-.051	-.041	
129	78.0	.007	-.001	-.005	-.002	.008	
130	85.3	.061	.056	.053	.054	.061	
131	94.1	.093	.092	.089	.090	.097	
132	3.0	-.370	-.435	-.496	-.542	-.544	
133	10.0	-.244	-.285	-.307	-.324	-.397	
134	25.0	-.199	-.238	-.255	-.270	-.401	
135	41.0	-.181	-.214	-.244	-.251	-.336	
136	52.5	-.146	-.173	-.194	-.202	-.205	
137	62.5	-.086	-.102	-.115	-.120	-.091	
138	72.5	-.020	-.029	-.035	-.038	-.015	
139	83.4	--	--	--	--	--	
140	94.0	.074	.072	.071	.070	-.081	
141	3.0	-.387	-.473	-.510	-.536	-.584	
142	10.0	-.258	-.303	-.311	-.308	-.347	
143	25.0	-.192	-.231	-.254	-.316	-.323	
144	41.0	-.168	-.198	-.218	-.231	-.253	
145	52.5	-.126	-.146	-.158	-.154	-.146	
146	62.5	-.057	-.056	-.090	-.060	-.049	
147	72.5	-.006	-.006	-.005	.000	.015	
148	84.0	.080	.087	.090	.097	.110	
149	92.0	--	--	--	--	--	
150	3.0	-.341	-.437	-.496	-.533	-.568	
151	10.0	-.215	-.254	-.239	-.258	-.294	
152	25.0	-.183	-.212	-.235	-.273	-.273	
153	41.0	--	--	--	--	--	
154	52.5	-.102	-.104	-.099	-.086	-.061	
155	62.5	-.032	-.027	-.014	.000	.024	
156	72.5	.018	.030	.045	.058	.079	
157	84.9	.097	.116	.131	.148	.168	

NACA

[redacted]

TABLE 14

$[\Lambda = 45^\circ, \delta_{a_n} = 0^\circ, \alpha = 2^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number					
		0.60	0.80	0.89	0.925	0.96	
A 1	2.0	-0.180	-0.130	-0.103	-0.068	0.105	
2	6.0	-.190	-.170	-.141	-.111	.060	
3	15.0	-.183	-.170	-.150	-.125	.400	
4	27.5	-.169	-.162	-.145	-.120	.484	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	-.240	-.238	-.221	-.200	.009	
15	27.5	-.253	-.262	-.255	-.230	-.034	
16	40.0	-.270	-.295	-.305	-.280	-.061	
17	50.0	-.260	-.300	-.321	-.304	-.109	
18	59.0	-.231	-.275	-.315	-.301	-.135	
19	67.5	--	--	--	--	--	
20	77.5	--	--	--	--	--	
21	88.0	--	--	--	--	--	
22	95.3	--	--	--	--	--	
C23	2.0	-.280	-.250	-.210	-.164	.010	
24	6.0	-.275	-.271	-.251	-.220	-.051	
25	15.0	-.280	-.298	-.299	-.265	-.100	
26	27.5	-.291	-.327	-.345	-.320	-.150	
27	40.0	-.310	-.360	-.403	-.385	-.219	
28	50.0	-.290	-.341	-.410	-.411	-.251	
29	59.0	-.270	-.322	-.425	-.450	-.289	
30	67.5	-.231	-.278	-.371	-.414	-.258	
31	77.5	-.150	-.190	-.285	-.390	-.250	
32	88.0	-.063	-.081	-.120	-.220	-.152	
33	95.3	.010	-.002	-.029	-.080	-.050	
D34	2.0	-.347	-.341	-.311	-.250	-.071	
35	15.0	-.301	-.337	-.365	-.341	-.173	
36	27.5	-.301	-.350	-.410	-.390	-.223	
37	40.0	-.320	-.371	-.481	-.490	-.325	
38	50.0	-.300	-.350	-.439	-.535	-.380	
39	59.0	-.235	-.285	-.359	-.433	-.359	
40	67.5	-.191	-.290	-.371	-.451	-.341	
41	77.5	-.103	-.100	-.080	-.345	-.320	
42	87.5	-.021	-.020	-.004	-.005	-.015	
43	94.2	.040	.049	.054	.059	.068	
E44	2.0	-.382	-.408	-.410	-.350	-.270	
45	6.0	-.340	-.378	-.400	-.363	-.308	
46	15.0	-.310	-.360	-.418	-.402	-.350	
47	27.5	-.302	-.360	-.440	-.463	-.420	
48	40.0	-.308	-.368	-.440	-.557	-.520	
49	50.0	-.280	-.338	-.402	-.540	-.580	
50	59.0	-.242	-.293	-.341	-.503	-.573	
51	67.5	-.194	-.210	-.188	-.281	-.513	
52	77.5	-.068	-.088	-.081	-.102	-.210	
53	88.5	.110	.100	.100	.050	-.050	
54	95.5	.075	.078	.079	.080	.038	
F55	2.0	-.408	-.432	-.452	-.408	-.311	
56	6.0	-.342	-.383	-.420	-.410	-.340	
57	15.0	-.310	-.363	-.420	-.440	-.390	
58	27.5	-.298	-.358	-.420	-.498	-.452	
59	40.0	-.302	-.366	-.428	-.557	-.550	
60	50.0	-.268	-.328	-.380	-.516	-.603	
61	59.0	-.225	-.270	-.285	-.368	-.543	
62	67.5	-.150	-.168	-.178	-.191	-.404	
63	86.5	--	--	--	--	--	
64	94.5	--	--	--	--	--	
G65	2.0	-.420	-.453	-.495	-.503	-.404	
66	6.0	-.351	-.401	-.452	-.500	-.442	
67	15.0	-.300	-.350	-.400	-.462	-.443	
68	27.5	-.282	-.331	-.382	-.444	-.498	
69	40.0	-.283	-.330	-.373	-.405	-.513	
70	50.0	-.255	-.295	-.340	-.361	-.489	
71	59.0	-.214	-.256	-.295	-.210	-.389	
72	67.5	-.140	-.153	-.151	-.126	-.125	
73	77.5	-.050	-.058	-.050	-.041	-.060	
74	87.2	--	--	--	--	--	
75	98.8	.082	.095	.110	.113	.123	
H76	2.0	-.402	-.483	-.552	-.562	-.537	
77	6.0	-.320	-.387	-.481	-.523	-.548	
78	15.0	-.266	-.320	-.392	-.438	-.490	
79	27.5	-.251	-.301	-.348	-.400	-.409	
80	40.0	-.250	-.291	-.325	-.360	-.376	
81	50.0	-.224	-.258	-.290	-.327	-.254	
82	59.0	-.188	-.228	-.230	-.171	-.093	
83	67.5	-.130	-.093	-.035	-.013	-.006	
84	88.3	.058	.072	.100	.120	.104	
85	94.2	.085	.104	.128	.145	.122	

LOWER SURFACE							
Tube	Percent chord	Mach Number					
		0.60	0.80	0.89	0.925	0.96	
86	3.0	0.089	0.106	0.117	0.123	0.144	
87	10.0	.003	.021	.031	.040	.058	
88	25.0	-.029	-.015	-.009	.000	.022	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.083	.089	.090	.091	.109	
96	10.0	-.023	-.019	-.019	-.014	.007	
97	25.0	-.072	-.071	-.076	-.076	-.057	
98	41.0	-.106	-.113	-.126	-.130	-.114	
99	52.5	-.106	-.117	-.138	-.150	-.144	
100	62.5	--	--	--	--	--	
101	72.5	--	--	--	--	--	
102	86.3	--	--	--	--	--	
103	94.5	--	--	--	--	--	
104	3.0	.089	.083	.070	.059	.068	
105	10.0	-.020	-.024	-.040	-.049	-.036	
106	25.0	-.086	-.094	-.114	-.126	-.118	
107	41.0	-.118	-.132	-.159	-.182	-.192	
108	52.5	-.118	-.134	-.162	-.190	-.213	
109	62.5	-.090	-.101	-.126	-.153	-.195	
110	72.5	-.047	-.055	-.075	-.100	-.141	
111	85.1	.008	.011	-.003	-.024	-.058	
112	94.6	.063	.056	.043	.015	-.021	
113	3.0	.106	.098	.071	.041	.028	
114	10.0	.003	-.002	-.024	-.045	-.050	
115	25.0	-.079	-.089	-.114	-.139	-.154	
116	41.0	-.115	-.128	-.154	-.181	-.225	
117	52.5	-.108	-.121	-.143	-.166	-.214	
118	62.5	-.075	-.082	-.096	-.112	-.164	
119	72.5	-.015	.006	.003	-.006	-.025	
120	87.4	.017	.070	.071	.129	.058	
121	94.2	.011	.081	.083	.083	.063	
122	3.0	.165	.151	.132	.105	.078	
123	10.0	.031	.013	-.007	-.031	-.053	
124	25.0	-.040	-.060	-.078	-.098	-.125	
125	41.0	-.069	-.089	-.107	-.120	-.147	
126	52.5	-.052	-.069	-.083	-.091	-.104	
127	62.5	-.046	-.061	-.075	-.082	-.098	
128	72.5	.004	.009	.004	.000	-.020	
129	78.0	.051	.042	.036	.035	.021	
130	85.3	.097	.093	.093	.095	.083	
131	94.1	.114	.117	.118	.125	.114	
132	3.0	.167	.165	.141	.115	.076	
133	10.0	.043	.027	.012	-.010	-.041	
134	25.0	-.033	-.050	-.065	-.079	-.101	
135	41.0	-.065	-.084	-.100	-.113	-.137	
136	52.5	-.062	-.079	-.094	-.103	-.126	
137	62.5	-.029	-.045	-.056	-.066	-.082	
138	72.5	.020	.020	.019	.017	.007	
139	83.4	--	--	--	--	--	
140	94.0	.086	.088	.085	.085	.072	
141	3.0	.180	.186	.186	.176	.139	
142	10.0	.038	.027	.018	.007	-.026	
143	25.0	-.028	-.043	-.053	-.062	-.091	
144	41.0	-.060	-.074	-.085	-.091	-.109	
145	52.5	-.049	-.058	-.066	-.068	-.080	
146	62.5	-.019	-.029	-.037	-.039	-.049	
147	72.5	.010	.032	.036	.042	.054	
148	84.0	.120	.120	.131	.134	.146	
149	92.0	--	--	--	--	--	
150	3.0	.149	.191	.152	.159	.155	
151	10.0	.001	-.011	-.020	-.020	-.022	
152	25.0	-.068	-.089	-.106	-.120	-.139	
153	41.0	--	--	--	--	--	
154	52.5	-.053	-.062	-.066	-.066	-.080	
155	62.5	-.016	-.026	-.032	-.038	-.057	
156	72.5	.000	.036	.071	.089	.095	
157	84.9	.097	.115	.129	.148	.136	

[redacted]

TABLE 15

[$\Lambda = 45^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = 7^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number					
		0.60	0.80	0.89	0.925	0.96	
A 1	2.0	-1.155	-1.189	-1.000	-1.150	-0.761	
2	6.0	-1.623	-.602	-.540	-.899	-.472	
3	15.0	-.440	-.430	-.400	-.525	-.310	
4	27.5	-.355	-.371	-.331	-.430	-.256	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	-.515	-.539	-.495	-.741	-.402	
15	27.5	-.450	-.490	-.465	-.535	-.383	
16	40.0	-.411	-.488	-.465	-.528	-.390	
17	50.0	-.390	-.480	-.482	-.541	-.410	
18	59.0	-.340	-.437	-.478	-.532	-.403	
19	67.5	--	--	--	--	--	
20	77.5	--	--	--	--	--	
21	88.0	--	--	--	--	--	
22	95.3	--	--	--	--	--	
C23	2.0	-1.392	-1.421	-1.161	-1.309	-.950	
24	6.0	-1.120	-1.148	-1.100	-1.215	-.890	
25	15.0	-.592	-.654	-.569	-1.102	-.450	
26	27.5	-.495	-.595	-.572	-.714	-.471	
27	40.0	-.455	-.568	-.602	-.660	-.515	
28	50.0	-.418	-.509	-.592	-.661	-.528	
29	59.0	-.355	-.435	-.641	-.680	-.551	
30	67.5	-.270	-.330	-.592	-.640	-.513	
31	77.5	-.210	-.244	-.510	-.650	-.515	
32	88.0	-.120	-.145	-.302	-.552	-.422	
33	95.3	-.052	-.029	-.125	-.329	-.252	
D34	2.0	-1.300	-1.490	-1.254	-1.339	-1.009	
35	15.0	-.799	-.772	-.821	-1.182	-.811	
36	27.5	-.490	-.638	-.670	-1.077	-.565	
37	40.0	-.442	-.545	-.740	-.760	-.632	
38	50.0	-.391	-.449	-.781	-.809	-.675	
39	59.0	-.330	-.330	-.623	-.798	-.681	
40	67.5	-.230	-.260	-.389	-.749	-.675	
41	77.5	-.140	-.165	-.221	-.455	-.430	
42	87.5	-.055	-.060	-.135	-.292	-.259	
43	94.2	-.020	-.020	-.100	-.240	-.203	
E44	2.0	-1.141	-1.275	-1.325	-1.200	-1.072	
45	6.0	-1.128	-1.210	-1.274	-1.166	-1.051	
46	15.0	-1.003	-1.103	-1.150	-1.051	-.943	
47	27.5	-.572	-.639	-.878	-.899	-.861	
48	40.0	-.398	-.450	-.773	-.725	-.658	
49	50.0	-.340	-.380	-.673	-.802	-.742	
50	59.0	-.273	-.300	-.310	-.646	-.780	
51	67.5	-.194	-.216	-.228	-.334	-.603	
52	77.5	-.102	-.120	-.180	-.270	-.348	
53	88.5	.025	-.008	-.118	-.220	-.287	
54	95.5	.022	.000	-.080	-.167	-.247	
F55	2.0	-1.120	-1.350	-1.370	-1.242	-1.103	
56	6.0	-1.110	-1.340	-1.302	-1.183	-1.052	
57	15.0	-.959	-1.154	-1.181	-1.084	-.975	
58	27.5	-.620	-.562	-1.095	-1.000	-.911	
59	49.0	-.435	-.488	-.778	-.847	-.850	
60	50.0	-.332	-.382	-.202	-.621	-.743	
61	59.0	-.250	-.268	-.215	-.311	-.730	
62	67.5	-.170	-.162	-.150	-.243	-.390	
63	86.5	--	--	--	--	--	
64	94.5	--	--	--	--	--	
G65	2.0	-.900	-.932	-1.343	-1.242	-1.098	
66	6.0	-.892	-.921	-1.260	-1.158	-1.034	
67	15.0	-.860	-.900	-1.200	-1.094	-.962	
68	27.5	-.695	-.731	-.812	-.907	-.824	
69	40.0	-.464	-.600	-.534	-.573	-.671	
70	50.0	-.330	-.491	-.472	-.560	-.575	
71	59.0	-.232	-.331	-.192	-.336	-.534	
72	67.5	-.164	-.155	-.152	-.240	-.496	
73	77.5	-.105	-.100	-.130	-.245	-.360	
74	87.2	--	--	--	--	--	
75	96.8	.031	-.020	.007	-.068	-.180	
H76	2.0	-.570	-.498	-.490	-.430	-.430	
77	6.0	-.554	-.490	-.485	-.425	-.428	
78	15.0	-.535	-.470	-.490	-.421	-.418	
79	27.5	-.490	-.431	-.463	-.397	-.392	
80	40.0	-.420	-.422	-.451	-.382	-.388	
81	50.0	-.350	-.408	-.447	-.380	-.365	
82	59.0	-.264	-.380	-.431	-.379	-.348	
83	67.5	-.200	-.340	-.390	-.365	-.328	
84	88.3	-.090	-.198	-.243	-.281	-.300	
85	94.2	-.050	-.152	-.161	-.237	-.250	

LOWER SURFACE							
Tube	Percent chord	Mach Number					
		0.60	0.80	0.89	0.925	0.96	
86	3.0	0.408	0.410	0.412	0.416	0.428	
87	10.0	.170	.181	.185	.192	.203	
88	25.0	.156	.163	.167	.175	.189	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.403	.393	.385	.387	.394	
96	10.0	.225	.217	.210	.213	.222	
97	25.0	.116	.110	.106	.107	.117	
98	41.0	.044	.039	.033	.033	.043	
99	52.5	.023	.017	.008	.003	.009	
100	62.5	--	--	--	--	--	
101	72.5	--	--	--	--	--	
102	86.3	--	--	--	--	--	
103	94.5	--	--	--	--	--	
104	3.0	.408	.390	.376	.367	.368	
105	10.0	.238	.221	.206	.200	.202	
106	25.0	.103	.092	.077	.071	.073	
107	41.0	.031	.016	-.001	-.012	-.013	
108	52.5	.007	-.009	-.028	-.044	-.047	
109	62.5	.010	-.004	-.024	-.041	-.043	
110	72.5	.031	.021	.001	-.019	-.023	
111	85.1	.068	.065	.040	.017	.013	
112	94.6	.097	.092	.053	.016	.009	
113	3.0	.417	.399	.374	.358	.350	
114	10.0	.256	.240	.217	.201	.196	
115	25.0	.113	.097	.074	.056	.050	
116	41.0	.034	.019	-.006	-.030	-.039	
117	52.5	.010	-.008	-.034	-.064	-.074	
118	62.5	.013	-.001	-.023	-.052	-.062	
119	72.5	.043	.034	.014	-.019	-.028	
120	87.4	.081	.080	.060	.026	.017	
121	94.2	.066	.058	.029	-.019	-.033	
122	3.0	.438	.426	.396	.385	.368	
123	10.0	.267	.256	.224	.209	.193	
124	25.0	.132	.119	.092	.078	.060	
125	41.0	.057	.044	.021	.000	-.022	
126	52.5	.041	.027	.003	-.020	-.047	
127	62.5	.021	.005	-.024	-.051	-.092	
128	72.5	.048	.034	.009	-.017	-.061	
129	78.0	.064	.052	.028	.002	-.039	
130	85.3	.096	.087	.065	.040	-.004	
131	94.1	.094	.085	.057	.028	-.022	
132	3.0	.439	.430	.397	.382	.357	
133	10.0	.276	.265	.232	.214	.188	
134	25.0	.135	.125	.098	.079	.051	
135	41.0	.057	.049	.022	-.001	-.035	
136	52.5	.030	.015	-.013	-.035	-.074	
137	62.5	.033	.019	-.007	-.030	-.072	
138	72.5	.056	.044	.020	.001	-.043	
139	83.4	--	--	--	--	--	
140	94.0	.061	.043	.004	-.028	-.112	
141	3.0	.438	.435	.409	.392	.353	
142	10.0	.261	.256	.228	.207	.161	
143	25.0	.128	.121	.100	.078	.027	
144	41.0	.047	.038	.017	-.004	-.063	
145	52.5	.024	.020	.003	-.019	-.079	
146	62.5	.030	.027	.031	-.005	-.039	
147	72.5	.050	.044	.030	.006	-.053	
148	84.0	.099	.104	.100	.077	.025	
149	92.0	--	--	--	--	--	
150	3.0	.310	.311	.316	.311	.285	
151	10.0	.156	.149	.151	.139	.106	
152	25.0	.028	.015	.006	-.014	-.055	
153	41.0	--	--	--	--	--	
154	52.5	-.029	-.049	-.060	-.085	-.149	
155	62.5	-.009	-.030	-.037	-.061	-.105	
156	72.5	.007	-.014	-.019	-.051	-.094	
157	84.9	-.006	-.058	-.051	-.117	-.211	

NACA

[redacted]

TABLE 16

[$\Lambda = 45^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = 10^\circ$]

[redacted]

UPPER SURFACE						
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96
A 1	2.0	-1.701	-1.482	-1.271		-1.041
2	6.0	-1.740	-1.330	-.960		-.829
3	15.0	-.560	-.609	-.561		-.475
4	27.5	-.485	-.515	-.460		-.380
5	40.0	--	--	--		--
6	50.0	--	--	--		--
7	59.0	--	--	--		--
8	67.5	--	--	--		--
9	77.5	--	--	--		--
10	87.5	--	--	--		--
11	96.0	--	--	--		--
B12	2.0	--	--	--		--
13	6.0	--	--	--		--
14	15.0	-1.410	-1.175	-.802		-.661
15	27.5	-.453	-.566	-.570		-.480
16	40.0	-.480	-.603	-.565		-.476
17	50.0	-.450	-.605	-.579		-.485
18	59.0	-.395	-.550	-.564		-.490
19	67.5	--	--	--		--
20	77.5	--	--	--		--
21	88.0	--	--	--		--
22	95.3	--	--	--		--
C23	2.0	-1.285	-1.315	-1.374		-1.182
24	6.0	-1.300	-1.331	-1.339		-1.103
25	15.0	-1.380	-1.302	-1.012		-1.031
26	27.5	-1.000	-1.102	-.831		-.622
27	40.0	-.379	-.641	-.695		-.595
28	50.0	-.420	-.570	-.680		-.591
29	59.0	-.385	-.473	-.720		-.629
30	67.5	-.292	-.355	-.680		-.580
31	77.5	-.220	-.270	-.660		-.591
32	88.0	-.141	-.169	-.440		-.519
33	95.3	-.060	-.073	-.233		-.302
D34	2.0	-.995	-1.180	-1.479		-1.200
35	15.0	-1.011	-1.205	-1.329		-1.065
36	27.5	-1.095	-1.180	-.940		-.990
37	40.0	-.940	-.940	-.867		-.702
38	50.0	-.530	-.721	-.859		-.738
39	59.0	-.279	-.375	-.711		-.733
40	67.5	-.215	-.254	-.500		-.740
41	77.5	-.152	-.160	-.300		-.551
42	87.5	-.062	-.060	-.170		-.341
43	94.2	.000	-.020	-.112		-.290
E44	2.0	-.840	-.830	-1.065	-1.188	-1.232
45	6.0	-.825	-.800	-.940	-.942	-1.204
46	15.0	-.830	-.808	-.943	-.938	-1.128
47	27.5	-.850	-.800	-.912	-.903	-1.082
48	40.0	-.902	-.797	-.853	-.861	-1.046
49	50.0	-.910	-.794	-.802	-.790	-.997
50	59.0	-.825	-.783	-.750	-.710	-.844
51	67.5	-.621	-.728	-.663	-.621	-.741
52	77.5	-.263	-.535	-.505	-.499	-.391
53	88.5	.070	-.180	-.310	-.351	-.281
54	95.5	.098	-.090	-.222	-.297	-.283
F55	2.0	-.695	-.632	-.790	-.878	-1.224
56	6.0	-.682	-.630	-.795	-.890	-1.179
57	15.0	-.688	-.640	-.780	-.864	-1.110
58	27.5	-.672	-.645	-.768	-.814	-1.041
59	49.0	-.670	-.650	-.740	-.782	-.980
60	50.0	-.685	-.642	-.708	-.760	-.887
61	59.0	-.693	-.632	-.678	-.731	-.808
62	67.5	-.680	-.622	-.630	-.607	-.711
63	86.5	--	--	--	--	--
64	94.6	--	--	--	--	--
G65	2.0	-.374	-.352	-.362	-.430	-.750
66	6.0	-.369	-.342	-.360	-.427	-.751
67	15.0	-.372	-.350	-.370	-.432	-.718
68	27.5	-.378	-.358	-.380	-.442	-.687
69	40.0	-.396	-.370	-.402	-.451	-.652
70	50.0	-.404	-.384	-.430	-.467	-.625
71	59.0	-.410	-.395	-.450	-.480	-.603
72	67.5	-.415	-.402	-.462	-.488	-.590
73	77.5	-.420	-.412	-.470	-.483	-.571
74	87.2	--	--	--	--	--
75	96.8	-.330	-.338	-.380	-.397	-.416
H76	2.0	-.209	-.238	-.284	-.320	-.429
77	6.0	-.200	-.235	-.284	-.321	-.430
78	15.0	-.201	-.240	-.288	-.320	-.424
79	27.5	-.209	-.240	-.283	-.310	-.403
80	40.0	-.219	-.252	-.300	-.323	-.419
81	50.0	-.224	-.258	-.301	-.328	-.413
82	59.0	-.228	-.260	-.303	-.330	-.410
83	67.5	-.230	-.263	-.308	-.331	-.402
84	88.3	-.231	-.258	-.300	-.320	-.400
85	94.2	-.232	-.258	-.300	-.320	-.398

LOWER SURFACE						
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96
86	3.0	0.507	0.551	0.519	0.527	0.535
87	10.0	.256	.263	.268	.291	.282
88	25.0	.252	.257	.262	.270	.280
89	41.0	--	--	--	--	--
90	52.5	--	--	--	--	--
91	62.5	--	--	--	--	--
92	72.5	--	--	--	--	--
93	84.0	--	--	--	--	--
94	94.0	--	--	--	--	--
95	3.0	.483	.477	.477	.482	.485
96	10.0	.327	.317	.311	.314	.318
97	25.0	.203	.199	.196	.198	.205
98	41.0	.120	.115	.112	.112	.117
99	52.5	.089	.083	.084	.072	.076
100	62.5	--	--	--	--	--
101	72.5	--	--	--	--	--
102	86.3	--	--	--	--	--
103	94.5	--	--	--	--	--
104	3.0	.477	.468	.459	.457	.455
105	10.0	.331	.315	.302	.298	.295
106	25.0	.192	.182	.169	.164	.162
107	41.0	.099	.089	.073	.066	.066
108	52.5	.066	.053	.037	.026	.024
109	62.5	.059	.047	.030	.019	.018
110	72.5	.073	.064	.046	.032	.032
111	85.1	.094	.094	.074	.063	.065
112	94.6	.109	.107	.072	.057	.068
113	3.0	.474	.465	.447	.439	.429
114	10.0	.338	.328	.305	.293	.283
115	25.0	.186	.177	.155	.140	.132
116	41.0	.096	.082	.060	.041	.032
117	52.5	.057	.044	.018	-.007	-.016
118	62.5	.053	.041	.014	-.014	-.021
119	72.5	.073	.062	.037	.003	-.003
120	87.4	.104	.097	.066	.030	.019
121	94.2	.090	.071	.026	-.033	-.052
122	3.0	.487	.474	.460	.449	.428
123	10.0	.348	.327	.309	.292	.263
124	25.0	.202	.184	.166	.149	.123
125	41.0	.117	.094	.073	.057	.031
126	52.5	.090	.063	.037	.020	-.008
127	62.5	.060	.027	-.006	-.026	-.063
128	72.5	.060	.042	.006	-.013	-.047
129	78.0	.091	.051	.015	-.005	-.036
130	86.3	.123	.077	.037	.017	-.010
131	94.1	.126	.063	.005	-.020	-.039
132	3.0	.479	.467	.456	.441	.413
133	10.0	.338	.321	.309	.290	.257
134	25.0	.190	.173	.161	.143	.112
135	41.0	.097	.078	.064	.044	.013
136	52.5	.054	.025	.007	-.012	-.040
137	62.5	.043	.005	-.009	-.031	-.052
138	72.5	.050	.006	-.004	-.025	-.037
139	83.4	--	--	--	--	--
140	94.0	.010	-.110	-.108	-.143	-.123
141	3.0	.448	.437	.441	.429	.394
142	10.0	.285	.270	.271	.256	.216
143	25.0	.139	.122	.123	.108	.072
144	41.0	.033	.010	.008	-.007	-.031
145	52.5	-.013	-.034	-.036	-.051	-.068
146	62.5	-.017	-.042	-.035	-.058	-.069
147	72.5	-.042	-.068	-.074	-.087	-.101
148	84.0	-.036	-.051	-.048	-.057	-.066
149	92.0	--	--	--	--	--
150	3.0	.302	.291	.297	.298	.286
151	10.0	.156	.138	.140	.139	.128
152	25.0	.021	-.010	-.021	-.031	-.046
153	41.0	--	--	--	--	--
154	52.5	-.078	-.112	-.140	-.154	-.213
155	62.5	-.072	-.107	-.134	-.137	-.161
156	72.5	-.076	-.108	-.147	-.154	-.175
157	84.9	-.171	-.202	-.244	-.284	-.347

NACA

[redacted]

TABLE 17

[$\Lambda = -30^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = -2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
A 1	2.0	--	--	--	--		
2	6.0	--	--	--	--		
3	15.0	--	--	--	--		
4	27.5	--	--	--	--		
5	40.0	--	--	--	--		
6	50.0	-0.190	-0.220	-0.240	-0.220		
7	59.0	-.162	-.180	-.181	-.141		
8	67.5	-.103	-.087	-.090	-.075		
9	77.5	--	--	--	--		
10	87.5	--	--	--	--		
11	96.0	--	--	--	--		
B12	2.0	.420	.445	.435	.430		
13	6.0	.108	.120	.120	.128		
14	15.0	-.101	-.136	-.162	-.154		
15	27.5	-.202	-.270	-.330	-.370		
16	40.0	-.252	-.325	-.391	-.500		
17	50.0	-.250	-.310	-.361	-.461		
18	59.0	-.210	-.251	-.282	-.391		
19	67.5	-.143	-.160	-.171	-.112		
20	77.5	-.070	-.072	-.060	-.041		
21	88.0	.037	.046	.040	.059		
22	95.3	--	--	--	--		
C23	2.0	.398	.450	.440	.430		
24	6.0	.125	.160	.170	.186		
25	15.0	-.068	-.061	-.061	-.050		
26	27.5	-.185	-.222	-.241	-.244		
27	40.0	-.252	-.320	-.376	-.412		
28	50.0	-.230	-.292	-.382	-.472		
29	59.0	-.222	-.271	-.318	-.416		
30	67.5	-.165	-.215	-.260	-.331		
31	77.5	-.076	-.078	-.081	-.079		
32	88.0	.034	.040	.032	.047		
33	95.3	--	--	--	--		
D34	2.0	.340	.389	.396	.414		
35	15.0	-.068	-.058	-.054	-.047		
36	27.5	-.170	-.196	-.210	-.211		
37	40.0	-.244	-.302	-.343	-.369		
38	50.0	-.252	-.310	-.354	-.402		
39	59.0	-.180	-.228	-.310	-.352		
40	67.5	--	--	--	--		
41	77.5	-.118	-.070	-.060	-.091		
42	87.5	.010	.005	-.008	-.020		
43	94.2	.068	.070	.059	.052		
E44	2.0	.350	.398	.420			
45	6.0	.090	.120	.152			
46	15.0	-.086	-.090	-.080			
47	27.5	-.188	-.224	-.230			
48	40.0	-.250	-.313	-.340			
49	50.0	-.250	-.311	-.340			
50	59.0	-.218	-.268	-.294			
51	67.5	-.170	-.225	-.255			
52	77.5	-.123	-.115	-.082			
53	88.5	.129	.129	.129			
54	95.5	.078	.062	-.062			
F55	2.0	.350	.400	.423			
56	6.0	.090	.120	.140			
57	15.0	-.080	-.085	-.071			
58	27.5	-.180	-.215	-.224			
59	40.0	-.245	-.310	-.331			
60	50.0	-.240	-.308	-.331			
61	59.0	-.208	-.260	-.281			
62	67.5	-.167	-.220	-.242			
63	86.5	.020	.010	.008			
64	94.6	.048	.040	.038			
G65	2.0	.358	.408	.430			
66	6.0	.098	.125	.150			
67	15.0	-.068	-.070	-.059			
68	27.5	-.170	-.203	-.210			
69	40.0	-.240	-.300	-.320			
70	50.0	-.236	-.301	-.329			
71	59.0	-.196	-.245	-.254			
72	67.5	-.150	-.209	-.230			
73	77.5	-.122	-.180	-.184			
74	87.2	.050	.045	.040			
75	96.8	.060	.050	.060			
H76	2.0	.897	--	.370			
77	6.0	.070	.095	.120			
78	15.0	-.063	-.060	-.048			
79	27.5	-.169	-.195	-.195			
80	40.0	-.222	-.274	-.290			
81	50.0	-.240	-.299	-.320			
82	59.0	-.190	-.241	-.254			
83	67.5	-.140	-.172	-.185			
84	88.3	-.006	-.035	-.040			
85	94.2	--	--	--			

[redacted]

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
86	3.0	--	--	--	--		
87	10.0	--	--	--	--		
88	25.0	--	--	--	--		
89	41.0	--	--	--	--		
90	52.5	-0.122	-0.104	-0.095	-0.075		
91	62.5	-.081	-.061	-.052	-.015		
92	72.5	-.030	-.005	.000	.031		
93	84.0	--	--	--	--		
94	94.0	--	--	--	--		
95	3.0	-.961	-.711	1.020	-.920		
96	10.0	-.431	-.711	-1.000	-.983		
97	25.0	-.308	-.390	-.740	-.912		
98	41.0	-.259	-.281	-.230	-.688		
99	52.5	-.192	-.198	-.180	-.144		
100	62.5	-.130	-.118	-.105	-.018		
101	72.5	-.041	-.022	-.020	.034		
102	86.3	.046	.069	.072	.109		
103	94.5	.102	.128	.128	.163		
104	3.0	-.618	-.711	-.831	-.719		
105	10.0	-.392	-.580	-.705	-.709		
106	25.0	-.322	-.450	-.559	-.625		
107	41.0	-.262	-.330	-.490	-.594		
108	52.5	-.230	-.263	-.274	-.580		
109	62.5	-.160	-.171	-.163	-.255		
110	72.5	-.054	-.050	-.043	-.024		
111	85.1	.030	.045	.040	.075		
112	94.6	.092	.109	.105	.126		
113	3.0	-.560	-.711	-.793	-.690		
114	10.0	-.359	-.478	-.600	-.633		
115	25.0	-.312	-.415	-.490	-.587		
116	41.0	-.281	-.362	-.448	-.579		
117	52.5	-.226	-.282	-.335	-.383		
118	62.5	-.150	-.176	-.217	-.233		
119	72.5	-.060	-.070	-.090	-.119		
120	87.4	.049	.050	.039	.012		
121	94.2	.072	.080	.069	.053		
122	3.0	-.450	-.551	-.625			
123	10.0	-.319	-.399	-.435			
124	25.0	-.293	-.381	-.449			
125	41.0	-.261	-.340	-.390			
126	52.5	-.204	-.261	-.301			
127	62.5	-.144	-.170	-.181			
128	72.5	-.060	-.080	-.099			
129	78.0	-.018	-.029	-.039			
130	85.3	.040	.031	.028			
131	94.1	.080	.080	.071			
132	3.0	-.461	-.565	-.628			
133	10.0	-.311	-.389	-.430			
134	25.0	-.280	-.360	-.420			
135	41.0	-.252	-.329	-.385			
136	52.5	-.210	-.270	-.319			
137	62.5	-.141	-.160	-.164			
138	72.5	-.040	-.052	-.069			
139	85.4	.040	.037	.029			
140	94.0	.058	.060	.056			
141	3.0	-.411	-.482	-.518			
142	10.0	-.309	-.380	-.420			
143	25.0	-.272	-.350	-.400			
144	41.0	-.240	-.309	-.350			
145	52.5	-.191	-.251	-.289			
146	62.5	-.111	-.150	-.155			
147	72.5	-.048	-.069	-.080			
148	84.0	.038	.031	.025			
149	92.0	.056	.055	.050			
150	3.0	-.484	-.618	-.660			
151	10.0	-.217	-.250	-.260			
152	25.0	-.218	-.260	-.283			
153	41.0	-.230	-.300	-.350			
154	52.5	-.194	-.253	-.298			
155	62.5	-.113	-.159	-.181			
156	72.5	-.030	-.052	-.062			
157	84.9	.056	.042	.040			

NACA

TABLE 18

[$\Lambda = -30^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = 0^\circ$]

[redacted]

UPPER SURFACE								
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.211	-0.238	-0.230	-0.210	-0.582	-0.706
7	59.0	-.178	-.181	-.179	-.180	-.301	-.620
8	67.5	-.112	-.106	-.100	-.050	-.148	-.432
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.128	-.090	-.048	.035	.098	.150
13	6.0	-.251	-.300	-.288	-.221	-.161	-.102
14	15.0	-.291	-.411	-.480	-.438	-.388	-.331
15	27.5	-.320	-.421	-.560	-.570	-.531	-.478
16	40.0	-.322	-.410	-.507	-.688	-.661	-.600
17	50.0	-.293	-.360	-.383	-.626	-.724	-.703
18	59.0	-.231	-.262	-.230	-.490	-.702	-.751
19	67.5	-.163	-.174	-.160	-.090	-.436	-.714
20	77.5	-.080	-.078	-.070	-.023	-.141	-.382
21	88.0	.028	.032	.042	.071	.077	-.122
22	95.3	--	--	--	--	--	--
C23	2.0	-.010	.060	.093	.148	.200	.248
24	6.0	-.161	-.151	-.130	-.081	-.034	.017
25	15.0	-.261	-.302	-.302	-.266	-.221	-.170
26	27.5	-.316	-.410	-.451	-.431	-.391	-.342
27	40.0	-.340	-.448	-.571	-.587	-.549	-.496
28	50.0	-.300	-.390	-.476	-.630	-.680	-.630
29	59.0	-.264	-.348	-.461	-.610	-.721	-.725
30	67.5	-.212	-.222	-.132	-.335	-.630	-.641
31	77.5	-.090	-.097	-.090	-.082	-.211	-.318
32	88.0	.020	.022	.035	.040	-.017	-.142
33	95.3	--	--	--	--	--	--
D34	2.0	-.007	.053	.088	.133	.179	.220
35	15.0	-.245	-.271	-.272	-.250	-.211	-.165
36	27.5	-.295	-.365	-.391	-.390	-.360	-.311
37	40.0	-.330	-.433	-.500	-.540	-.516	-.459
38	50.0	-.320	-.408	-.472	-.558	-.630	-.588
39	59.0	-.240	-.327	-.378	-.452	-.560	-.551
40	67.5	--	--	--	--	--	--
41	77.5	-.065	-.088	-.102	-.139	-.171	-.348
42	87.5	-.002	-.014	-.013	-.034	-.067	-.073
43	94.2	.060	.060	.058	.040	.010	.017
E44	2.0	-.039	.020	.055	.078	.150	.203
45	6.0	-.181	-.170	-.150	-.140	-.075	-.021
46	15.0	-.270	-.304	-.310	-.312	-.255	-.200
47	27.5	-.314	-.385	-.412	-.440	-.390	-.337
48	40.0	-.347	-.438	-.496	-.568	-.527	-.471
49	50.0	-.320	-.400	-.450	-.550	-.604	-.572
50	59.0	-.270	-.340	-.400	-.500	-.548	-.511
51	67.5	-.229	-.315	-.362	-.400	-.510	-.500
52	77.5	-.061	-.067	-.085	-.117	-.099	-.291
53	88.5	.100	.100	.099	.072	.094	-.010
54	95.5	.055	.070	.055	.030	.042	.025
F55	2.0	-.040	.025	.065	.080	.152	.210
56	6.0	-.190	-.263	-.145	-.138	-.073	-.012
57	15.0	-.277	-.289	-.291	-.298	-.241	-.187
58	27.5	-.332	-.370	-.400	-.427	-.379	-.324
59	49.0	-.355	-.425	-.475	-.550	-.513	-.461
60	50.0	-.310	-.385	-.430	-.520	-.563	-.558
61	59.0	-.260	-.331	-.381	-.475	-.520	-.500
62	67.5	-.228	-.315	-.365	-.428	-.509	-.496
63	86.5	-.009	-.010	-.018	-.040	-.022	-.090
64	94.6	.040	.040	.035	.012	.032	.032
G65	2.0	-.006	.060	.099	.110	.171	.230
66	6.0	-.165	-.140	-.118	-.112	-.054	.000
67	15.0	-.250	-.255	-.252	-.262	-.213	-.160
68	27.5	-.300	-.340	-.360	-.389	-.342	-.290
69	40.0	-.342	-.400	-.440	-.505	-.480	-.421
70	50.0	-.298	-.364	-.400	-.468	-.518	-.542
71	59.0	-.242	-.308	-.349	-.424	-.470	-.481
72	67.5	-.210	-.291	-.338	-.415	-.475	-.471
73	77.5	-.029	-.007	-.011	-.043	-.039	-.204
74	87.2	.021	.020	.015	-.010	.018	--
75	98.8	.055	.050	.050	.032	.054	.072
H76	2.0	-.001	.055	.090	.100	.160	.228
77	6.0	-.140	-.128	-.105	-.103	-.048	.010
78	15.0	-.195	-.210	-.201	-.210	-.160	-.110
79	27.5	-.265	-.298	-.308	-.330	-.295	-.254
80	40.0	-.300	-.340	-.361	-.390	-.380	-.345
81	50.0	-.275	-.331	-.371	-.430	-.405	-.410
82	59.0	-.218	-.260	-.285	-.340	-.370	-.370
83	67.5	-.152	-.175	-.200	-.235	-.255	-.280
84	88.3	-.013	-.325	-.040	-.063	-.050	-.054
85	94.2	--	--	--	--	--	--

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.100	-0.120	-0.119	-0.118	-0.085	-0.449
91	62.5	-.067	-.062	-.055	-.052	-.014	-.175
92	72.5	-.019	-.013	-.002	.005	.038	-.031
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	-.180	-.280	-.309	-.340	-.313	-.278
96	10.0	-.170	-.250	-.299	-.417	-.431	-.408
97	25.0	-.200	-.271	-.315	-.432	-.482	-.480
98	41.0	-.200	-.250	-.269	-.341	-.528	-.570
99	52.5	-.166	-.200	-.210	-.135	-.450	-.620
100	62.5	-.102	-.118	-.105	-.095	-.058	-.550
101	72.5	-.020	-.020	-.011	-.007	.048	-.165
102	86.3	.059	.070	.080	.089	.118	.012
103	94.5	.118	.130	.139	.148	.165	.085
104	3.0	-.120	-.156	-.159	-.173	-.152	-.129
105	10.0	-.160	-.220	-.239	-.272	-.255	-.220
106	25.0	-.200	-.270	-.308	-.358	-.364	-.355
107	41.0	-.192	-.258	-.290	-.392	-.448	-.440
108	52.5	-.180	-.230	-.250	-.330	-.460	-.550
109	62.5	-.030	-.171	-.190	-.200	-.409	-.508
110	72.5	.000	-.022	-.013	-.008	-.052	-.209
111	85.1	.048	.049	.060	.062	.060	-.091
112	94.6	.120	.117	.125	.129	.112	-.029
113	3.0	-.118	-.161	-.163	-.182	-.175	-.159
114	10.0	-.132	-.180	-.189	-.210	-.195	-.172
115	25.0	-.192	-.260	-.285	-.325	-.340	-.339
116	41.0	-.202	-.271	-.304	-.370	-.432	-.451
117	52.5	-.173	-.230	-.251	-.310	-.375	-.474
118	62.5	-.119	-.160	-.171	-.119	-.271	-.361
119	72.5	-.030	-.050	-.050	-.070	-.100	-.087
120	87.4	.060	.048	-.061	.039	.020	.000
121	94.2	.087	.083	.093	.075	.045	.031
122	3.0	-.020	-.038	-.031	-.045	-.041	-.033
123	10.0	-.089	-.120	-.130	-.140	-.132	-.118
124	25.0	-.155	-.210	-.235	-.261	-.280	-.282
125	41.0	-.171	-.230	-.255	-.290	-.335	-.393
126	52.5	-.130	-.179	-.200	-.221	-.258	-.324
127	62.5	-.093	-.135	-.155	-.187	-.224	-.298
128	72.5	-.040	-.041	-.041	-.045	-.040	-.039
129	78.0	.029	.011	.008	.000	-.010	-.011
130	85.3	.075	.069	.068	.059	.052	.049
131	94.1	.110	.105	.100	.093	.087	.070
132	3.0	-.040	-.060	-.069	-.063	-.060	-.050
133	10.0	-.089	-.120	-.130	-.131	-.127	-.104
134	25.0	-.150	-.203	-.225	-.247	-.264	-.279
135	41.0	-.161	-.221	-.250	-.281	-.313	-.370
136	52.5	-.140	-.182	-.205	-.232	-.260	-.320
137	62.5	-.090	-.140	-.161	-.191	-.221	-.280
138	72.5	-.022	-.011	-.005	-.010	-.011	.000
139	83.4	.078	.069	.069	.064	.063	.058
140	94.0	.083	.074	.070	.060	.058	-.047
141	3.0	-.020	-.033	-.032	-.028	-.010	-.009
142	10.0	-.098	-.130	-.141	-.145	-.132	-.113
143	25.0	-.151	-.202	-.229	-.263	-.263	-.250
144	41.0	-.160	-.219	-.240	-.270	-.310	-.362
145	52.5	-.135	-.180	-.202	-.225	-.249	-.301
146	62.5	-.080	-.121	-.141	-.159	-.169	-.287
147	72.5	-.018	-.040	-.048	-.060	-.059	-.007
148	84.0	.070	.057	.050	.040	.045	.075
149	92.0	.077	.068	.067	.059	.060	.073
150	3.0	-.035	-.050	-.050	-.040	-.014	-.031
151	10.0	-.070	-.090	-.088	-.081	-.054	-.050
152	25.0	-.120	-.152	-.160	-.162	-.146	-.144
153	41.0	-.171	-.232	-.261	-.300	-.283	-.268
154	52.5	-.155	-.213	-.242	-.292	-.360	-.351
155	62.5	-.080	-.130	-.150	-.173	-.235	-.308
156	72.5	-.011	-.040	-.043	-.009	-.060	-.096
157	84.9	.060	.040	.036	.027	.030	.003

NACA

[redacted]

TABLE 19

$[\Lambda = -30^\circ,\ \delta_{a_n} = 0^\circ,\ \alpha = 2^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.240	-0.240	-0.181	-0.250	-0.491	-0.772
7	59.0	-.200	-.184	-.141	-.162	-.327	-.583
8	67.5	-.130	-.111	-.079	-.090	-.230	-.420
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-1.080	-.911	-.728	-.547	-.366	-.265
13	6.0	-.748	-.962	-.830	-.680	-.521	-.431
14	15.0	-.508	-1.020	-.900	-.807	-.680	-.558
15	27.5	-.435	-.762	-.950	-.911	-.795	-.712
16	40.0	-.396	-.352	-.842	-.828	-.815	-.770
17	50.0	-.350	-.355	-.441	-.711	-.794	-.804
18	59.0	-.272	-.270	-.160	-.500	-.731	-.810
19	67.5	-.190	-.180	-.102	-.304	-.502	-.751
20	77.5	-.096	-.080	-.030	-.161	-.318	-.456
21	88.0	.010	.030	.054	.050	-.082	-.320
22	95.3	--	--	--	--	--	--
C23	2.0	-.620	-.536	-.421	-.296	-.161	-.074
24	6.0	-.530	-.584	-.521	-.427	-.311	-.238
25	15.0	-.490	-.620	-.587	-.509	-.420	-.352
26	27.5	-.461	-.678	-.711	-.660	-.574	-.511
27	40.0	-.441	-.639	-.790	-.768	-.691	-.623
28	50.0	-.380	-.551	-.670	-.792	-.778	-.712
29	59.0	-.342	-.250	-.651	-.794	-.840	-.830
30	67.5	-.190	-.200	-.171	-.672	-.764	-.740
31	77.5	-.113	-.106	-.074	-.091	-.241	-.460
32	88.0	.004	.013	.030	-.017	-.138	-.226
33	95.3	--	--	--	--	--	--
D34	2.0	-.548	-.489	-.391	-.289	-.168	-.080
35	15.0	-.450	-.550	-.540	-.479	-.400	-.338
36	27.5	-.438	-.578	-.622	-.598	-.528	-.469
37	40.0	-.432	-.598	-.716	-.711	-.650	-.591
38	50.0	-.400	-.531	-.651	-.731	-.700	-.691
39	59.0	-.315	-.452	-.509	-.622	-.626	-.610
40	67.5	--	--	--	--	--	--
41	77.5	-.112	-.139	-.155	-.178	-.470	-.556
42	87.5	-.022	-.023	-.038	-.063	-.105	-.275
43	94.2	.051	.051	.045	.020	.027	.000
E44	2.0	-.564	-.560	-.443	-.317	-.210	-.100
45	6.0	-.502	-.590	-.540	-.442	-.360	-.270
46	15.0	-.460	-.600	-.582	-.513	-.450	-.371
47	27.5	-.441	-.600	-.657	-.624	-.571	-.500
48	40.0	-.440	-.590	-.700	-.705	-.673	-.606
49	50.0	-.390	-.525	-.630	-.690	-.652	-.573
50	59.0	-.340	-.489	-.603	-.664	-.626	-.553
51	67.5	-.226	-.221	-.218	-.475	-.618	-.540
52	77.5	-.119	-.139	-.140	-.123	-.266	-.348
53	88.5	.070	.070	.069	.050	-.049	-.193
54	95.5	.045	.045	.040	.020	-.045	-.170
F55	2.0	-.550	-.540	-.426	-.304	-.201	-.098
56	6.0	-.489	-.576	-.530	-.440	-.360	-.266
57	15.0	-.445	-.560	-.550	-.490	-.430	-.351
58	27.5	-.430	-.570	-.622	-.595	-.550	-.480
59	40.0	-.429	-.561	-.653	-.690	-.652	-.590
60	50.0	-.380	-.500	-.590	-.639	-.610	-.550
61	59.0	-.335	-.470	-.570	-.606	-.590	-.542
62	67.5	-.233	-.223	-.265	-.483	-.553	-.516
63	86.5	-.025	-.031	-.040	-.049	-.175	-.290
64	94.6	.030	.030	.023	.010	-.040	-.170
G65	2.0	-.480	-.455	-.364	-.255	-.169	-.071
66	6.0	-.445	-.510	-.485	-.404	-.238	-.250
67	15.0	-.405	-.491	-.504	-.442	-.392	-.320
68	27.5	-.400	-.509	-.560	-.528	-.490	-.425
69	40.0	-.409	-.514	-.595	-.619	-.605	-.541
70	50.0	-.360	-.452	-.514	-.570	-.628	-.613
71	59.0	-.305	-.420	-.488	-.552	-.590	-.548
72	67.5	-.250	-.330	-.423	-.513	-.588	-.550
73	77.5	-.071	-.073	-.070	-.056	-.095	-.392
74	87.2	.000	-.002	-.010	-.005	-.010	--
75	96.8	.050	.050	.050	.049	.040	.069
H76	2.0	-.379	-.352	-.289	-.210	-.043	-.051
77	6.0	-.380	-.420	-.393	-.340	-.290	-.220
78	15.0	-.335	-.379	-.385	-.352	-.313	-.253
79	27.5	-.347	-.418	-.436	-.442	-.420	-.365
80	40.0	-.340	-.421	-.448	-.467	-.485	-.451
81	50.0	-.315	-.390	-.444	-.450	-.495	-.490
82	59.0	-.245	-.300	-.331	-.370	-.404	-.430
83	67.5	-.160	-.200	-.224	-.245	-.289	-.309
84	88.3	-.032	-.053	-.065	-.083	-.093	-.081
85	94.2	.010	--	--	--	--	--

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.071	-0.093	-0.103	-0.119	-0.135	-0.429
91	62.5	-.046	-.044	-.045	-.049	-.050	-.179
92	72.5	-.005	.005	.003	.003	-.004	-.075
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.310	0.280	.250	.208	.149	.138
96	10.0	.079	.051	.031	-.003	-.041	-.041
97	25.0	-.080	-.128	-.155	-.205	-.259	-.250
98	41.0	-.131	-.175	-.200	-.250	-.389	-.429
99	52.5	-.119	-.149	-.165	-.199	-.330	-.459
100	62.5	-.071	-.080	-.092	-.105	-.133	-.384
101	72.5	.000	.004	.002	-.003	-.005	-.161
102	86.3	.068	.082	.090	.089	.075	-.030
103	94.5	.120	.140	.150	.150	.130	.065
104	3.0	.270	.270	.255	.233	.202	.195
105	10.0	.069	.062	.053	.033	.009	.010
106	25.0	-.066	-.090	-.115	-.143	-.175	-.172
107	41.0	-.113	-.150	-.180	-.225	-.285	-.310
108	52.5	-.120	-.158	-.178	-.218	-.315	-.368
109	62.5	-.080	-.108	-.119	-.158	-.249	-.299
110	72.5	-.030	.000	-.079	-.070	-.145	-.183
111	85.1	.070	.070	.079	.070	.030	-.092
112	94.6	.128	.139	.145	.129	.061	-.055
113	3.0	.238	.238	.225	.205	.175	.169
114	10.0	.071	.070	.061	.050	.030	.032
115	25.0	-.064	-.090	-.109	-.129	-.158	-.160
116	41.0	-.120	-.156	-.180	-.219	-.265	-.295
117	52.5	-.111	-.145	-.170	-.203	-.250	-.276
118	62.5	-.073	-.100	-.123	-.150	-.200	-.221
119	72.5	-.002	-.010	-.024	-.045	-.085	-.095
120	87.4	.079	.085	.075	.062	.043	.031
121	94.2	.094	.100	.095	.080	.062	.055
122	3.0	.268	.315	.300	.380	.275	.255
123	10.0	.093	.110	.100	.086	.175	.078
124	25.0	-.048	-.059	-.071	-.092	-.110	-.122
125	41.0	-.100	-.128	-.149	-.174	-.203	-.238
126	52.5	-.080	-.100	-.120	-.140	-.169	-.200
127	62.5	-.058	-.074	-.090	-.110	-.131	-.165
128	72.5	-.020	-.040	-.055	-.079	-.108	-.148
129	78.0	.013	.011	.000	-.002	-.021	-.082
130	85.3	.091	.090	.082	.071	.050	.000
131	94.1	.112	.111	.109	.093	.060	.006
132	3.0	.272	.299	.286	.277	.253	.240
133	10.0	.091	.108	.100	.089	.080	.079
134	25.0	-.044	-.054	-.070	-.089	-.110	-.111
135	41.0	-.093	-.121	-.141	-.167	-.195	-.226
136	52.5	-.091	-.111	-.120	-.152	-.178	-.204
137	62.5	-.050	-.069	-.082	-.101	-.121	-.143
138	72.5	-.018	-.043	-.061	-.088	-.119	-.130
139	83.4	.094	.099	.096	.091	.090	.070
140	94.0	.082	.079	.070	.060	.041	-.018
141	3.0	.270	.300	.291	.280	.276	.270
142	10.0	.072	.086	.079	.071	.067	.068
143	25.0	-.050	-.061	-.080	-.098	-.090	-.121
144	41.0	-.100	-.130	-.150	-.171	-.190	-.231
145	52.5	-.090	-.115	-.139	-.155	-.175	-.193
146	62.5	-.050	-.079	-.090	-.110	-.121	-.144
147	72.5	-.005	-.011	-.023	-.031	-.040	-.064
148	84.0	.096	.075	.068	.060	.059	.087
149	92.0	.078	.070	.065	.057	.059	.069
150	3.0	.242	.271	.271	.268	.270	.241
151	10.0	.060	.079	.080	.080	.095	.103
152	25.0	-.041	-.050	-.051	-.056	-.049	-.051
153	41.0	-.128	-.162	-.185	-.210	-.219	-.207
154	52.5	-.123	-.170	-.199	-.233	-.288	-.302
155	62.5	-.067	-.104	-.124	-.150	-.177	-.273
156	72.5	-.007	-.025	-.036	-.045	-.045	-.047
157	84.9	.046	.021	.016	.009	.010	.008

NACA

[redacted]

TABLE 20

[$\Lambda = -30^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = 4^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.230	-0.430	-0.545	-0.541	-0.404	-0.614
7	59.0	-.200	-.321	-.500	-.534	-.378	-.498
8	67.5	-.134	-.220	-.432	-.500	-.346	-.430
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-1.616	-1.268	-1.171	-.962	-.761	-.632
13	6.0	-1.190	-1.202	-1.020	-.919	-.867	-.749
14	15.0	-.848	-.764	-.610	-.662	-.921	-.821
15	27.5	-.571	-.578	-.550	-.545	-.940	-.860
16	40.0	-.451	-.611	-.493	-.543	-.889	-.881
17	50.0	-.378	-.512	-.485	-.469	-.760	-.853
18	59.0	-.290	-.382	-.430	-.421	-.611	-.820
19	67.5	-.200	-.270	-.338	-.353	-.544	-.734
20	77.5	-.100	-.198	-.235	-.268	-.450	-.585
21	88.0	.009	-.030	-.132	-.205	-.313	-.478
22	95.3	--	--	--	--	--	--
C23	2.0	-1.405	-1.042	-.800	-.620	-.470	-.370
24	6.0	-.947	-1.118	-.925	-.770	-.638	-.533
25	15.0	-.701	-1.071	-.928	-.799	-.680	-.580
26	27.5	-.600	-.952	-.932	-.861	-.753	-.662
27	40.0	-.521	-.493	-.866	-.814	-.845	-.753
28	50.0	-.423	-.445	-.591	-.711	-.890	-.802
29	59.0	-.348	-.388	-.438	-.630	-.881	-.899
30	67.5	-.230	-.256	-.211	-.517	-.815	-.781
31	77.5	-.130	-.144	-.097	-.187	-.321	-.525
32	88.0	-.011	-.017	-.020	-.060	-.230	-.290
33	95.3	--	--	--	--	--	--
D34	2.0	-1.170	-.960	-.757	-.598	-.561	-.370
35	15.0	-.643	-.971	-.862	-.745	-.631	-.540
36	27.5	-.560	-.840	-.887	-.800	-.701	-.620
37	40.0	-.520	-.740	-.934	-.848	-.812	-.730
38	50.0	-.448	-.529	-.877	-.904	-.840	-.800
39	59.0	-.333	-.440	-.555	-.766	-.780	-.718
40	67.5	--	--	--	--	--	--
41	77.5	-.135	-.143	-.134	-.221	-.560	-.617
42	87.5	-.031	-.029	-.016	-.063	-.271	-.430
43	94.2	.030	.028	.050	.031	.000	-.045
E44	2.0	-1.303	-1.068	-.865	-.674	-.532	-.395
45	6.0	-.988	-1.135	-.970	-.805	-.678	-.557
46	15.0	-.644	-1.050	-.950	-.810	-.695	-.580
47	27.5	-.570	-.895	-.970	-.858	-.760	-.660
48	40.0	-.520	-.678	-.980	-.920	-.823	-.668
49	50.0	-.440	-.530	-.850	-.824	-.750	-.642
50	53.0	-.356	-.415	-.642	-.751	-.694	-.633
51	67.5	-.259	-.298	-.300	-.559	-.591	-.550
52	77.5	-.139	-.147	-.133	-.235	-.382	-.404
53	88.5	.000	.020	-.180	-.071	-.180	-.352
54	95.5	.018	.025	-.180	-.080	-.206	-.340
F55	2.0	-1.202	-1.050	-.860	-.680	-.542	-.402
56	6.0	-.900	-1.100	-.945	-.790	-.664	-.532
57	15.0	-.620	-.992	-.930	-.800	-.690	-.576
58	27.5	-.552	-.830	-.944	-.840	-.748	-.643
59	49.0	-.510	-.688	-.884	-.808	-.715	-.660
60	50.0	-.437	-.522	-.880	-.803	-.745	-.634
61	59.0	-.349	-.408	-.570	-.629	-.592	-.609
62	67.5	-.248	-.297	-.325	-.575	-.563	-.568
63	86.8	-.044	-.050	-.050	-.170	-.427	-.453
64	94.6	.014	.010	.015	-.035	-.230	-.345
G65	2.0	-1.082	-.970	-.779	-.631	-.522	-.368
66	6.0	-.794	-1.040	-.909	-.761	-.642	-.512
67	15.0	-.580	-.828	-.876	-.761	-.660	-.542
68	27.5	-.503	-.705	-.790	-.763	-.694	-.590
69	40.0	-.494	-.650	-.770	-.771	-.721	-.635
70	50.0	-.418	-.549	-.712	-.720	-.711	-.682
71	59.0	-.317	-.380	-.628	-.715	-.693	-.650
72	67.5	-.230	-.273	-.260	-.643	-.703	-.652
73	77.5	-.105	-.126	-.122	-.110	-.277	-.512
74	87.2	-.022	-.041	-.045	-.041	-.042	--
75	96.8	.040	.010	.020	.022	.026	.060
H76	2.0	-.850	-.860	-.738	-.590	-.472	-.332
77	6.0	-.653	-.809	-.797	-.680	-.575	-.451
78	15.0	-.488	-.609	-.630	-.592	-.538	-.451
79	27.5	-.440	-.550	-.603	-.580	-.524	-.455
80	40.0	-.400	-.515	-.558	-.590	-.578	-.530
81	50.0	-.358	-.460	-.533	-.550	-.580	-.550
82	59.0	-.272	-.350	-.409	-.459	-.468	-.475
83	67.5	-.186	-.242	-.280	-.310	-.343	-.352
84	88.3	-.059	-.100	-.124	-.140	-.148	-.126
85	94.2	--	--	--	--	--	--

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.040	-0.079	-0.120	-0.158	-0.194	-0.371
91	62.5	-.029	-.043	-.073	-.100	-.095	-.245
92	72.5	.009	-.002	-.040	-.071	-.062	-.099
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.590	.553	.519	.489	.452	.442
96	10.0	.264	.245	.215	.193	.170	.170
97	25.0	.024	-.011	-.043	-.075	-.109	-.111
98	41.0	-.069	-.109	-.149	-.191	-.261	-.281
99	52.5	-.072	-.111	-.149	-.189	-.269	-.348
100	62.5	-.040	-.065	-.095	-.121	-.184	-.305
101	72.5	.020	.005	-.021	-.041	-.064	-.165
102	86.3	.070	.075	.041	.020	.015	-.100
103	94.5	.120	.125	.079	.040	.051	-.025
104	3.0	.539	.520	.499	.479	.451	.450
105	10.0	.258	.250	.239	.221	.203	.210
106	25.0	.050	.035	.019	.000	-.021	-.019
107	41.0	-.040	-.073	-.099	-.130	-.171	-.179
108	52.5	-.064	-.100	-.128	-.165	-.225	-.255
109	62.5	-.040	-.063	-.085	-.119	-.178	-.221
110	72.5	.011	-.009	-.034	-.068	-.125	-.165
111	85.1	.070	.091	.081	.065	.015	-.039
112	94.6	.130	.135	.129	.119	.039	-.025
113	3.0	.491	.482	.460	.449	.420	.415
114	10.0	.248	.250	.238	.229	.215	.215
115	25.0	.050	.040	.029	.011	-.008	-.005
116	41.0	-.040	-.065	-.085	-.109	-.139	-.147
117	52.5	-.051	-.079	-.100	-.130	-.169	-.175
118	62.5	-.030	-.050	-.070	-.099	-.139	-.159
119	72.5	.014	-.005	-.001	-.020	-.059	-.071
120	87.4	.071	.130	.100	.080	.045	.030
121	94.2	.110	.105	.100	.083	.048	.041
122	3.0	.512	.530	.523	.504	.494	.477
123	10.0	.255	.272	.275	.261	.269	.250
124	25.0	.060	.061	.060	.043	.028	.038
125	41.0	-.028	-.041	-.050	-.071	-.108	-.110
126	52.5	-.030	-.040	-.049	-.070	-.108	-.108
127	62.5	-.022	-.030	-.040	-.062	-.105	-.110
128	72.5	.010	.010	.000	-.025	-.070	-.091
129	78.0	.035	.030	.027	.000	-.045	-.071
130	86.3	.065	.069	.073	.042	-.010	-.043
131	94.1	.110	.125	.120	.078	.014	-.002
132	3.0	.501	.519	.518	.498	.518	.469
133	10.0	.250	.270	.278	.260	.260	.251
134	25.0	.060	.070	.060	.049	.034	.037
135	41.0	-.025	-.039	-.042	-.062	-.091	-.092
136	52.5	-.040	-.055	-.066	-.083	-.119	-.112
137	62.5	-.015	-.022	-.029	-.044	-.071	-.064
138	72.5	.029	.020	.016	-.003	-.030	-.031
139	83.4	.083	.120	.130	.129	.130	.098
140	94.0	.070	.081	.078	.056	.024	-.028
141	3.0	.490	.518	.520	.502	.530	.484
142	10.0	.229	.250	.258	.250	.259	.240
143	25.0	.050	.053	.051	.041	.031	.029
144	41.0	-.032	-.049	-.052	-.070	-.098	-.095
145	52.5	-.040	-.060	-.070	-.085	-.124	-.109
146	62.5	-.015	-.031	-.031	-.040	-.062	-.066
147	72.5	.020	.005	-.002	-.010	-.020	-.023
148	84.0	.060	.090	.093	.100	.087	.122
149	92.0	.065	.071	.070	.069	.060	.090
150	3.0	.500	.525	.539	.527	.558	.465
151	10.0	.198	.221	.240	.240	.259	.268
152	25.0	.040	.050	.059	.059	.062	.060
153	41.0	-.070	-.091	-.100	-.110	-.132	-.122
154	52.5	-.085	-.121	-.141	-.168	-.220	-.217
155	62.5	-.039	-.061	-.091	-.109	-.145	-.153
156	72.5	.008	-.010	-.022	-.030	-.042	-.009
157	84.9	.026	.010	-.004	-.009	-.018	-.005

NACA

[redacted]

TABLE 21

$[\Lambda = -30^\circ,\ \delta_{a_n} = 0^\circ,\ \alpha = 7^\circ]$

[redacted]

Tube	Percent chord	Upper surface, Mach number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-.504	-0.594	-0.571	-0.573	-0.586	-0.710
7	59.0	-.432	-.597	-.582	-.596	-.600	-.709
8	67.5	-.358	-.571	-.568	-.587	-.601	-.690
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	-.171
B12	2.0	-.660	-.528	-1.285	-1.161	-1.080	-1.015
13	6.0	-.678	-.542	-1.140	-1.090	-.980	-.938
14	15.0	-.691	-.540	-.521	-.513	-.665	-.838
15	27.5	-.738	-.561	-.531	-.540	-.558	-.751
16	40.0	-.690	-.580	-.532	-.543	-.575	-.752
17	50.0	-.613	-.590	-.533	-.541	-.574	-.741
18	59.0	-.542	-.599	-.532	-.541	-.540	-.630
19	67.5	-.458	-.584	-.492	-.511	-.510	-.520
20	77.5	-.346	-.540	-.410	-.441	-.426	-.422
21	88.0	-.207	-.403	-.269	-.300	-.308	-.480
22	95.3	--	--	--	--	-.295	-.525
C23	2.0	-1.424	-1.369	-1.267	-1.050	-.881	-.761
24	6.0	-1.311	-1.350	-1.239	-1.068	-.934	-.824
25	15.0	-.880	-1.002	-1.130	-1.039	-.987	-.832
26	27.5	-.611	-.678	-.929	-.978	-.930	-.870
27	40.0	-.560	-.530	-.650	-.797	-.881	-.872
28	50.0	-.492	-.452	-.544	-.648	-.781	-.838
29	59.0	-.428	-.400	-.452	-.546	-.650	-.811
30	67.5	-.311	-.331	-.390	-.460	-.563	-.748
31	77.5	-.218	-.290	-.373	-.440	-.558	-.722
32	88.0	-.110	-.207	-.260	-.335	-.451	-.592
33	95.3	--	--	--	--	--	--
D34	2.0	-1.991	-1.422	-1.173	-.961	-.804	-.692
35	15.0	-.848	-1.302	-1.158	-1.002	-.890	-.792
36	27.5	-.660	-1.212	-1.024	-1.024	-.921	-.831
37	40.0	-.561	-.761	-1.071	-.990	-.960	-.882
38	50.0	-.468	-.550	-.856	-.980	-.922	-.853
39	59.0	-.350	-.374	-.660	-.851	-.858	-.820
40	67.5	--	--	--	--	--	--
41	77.5	-.158	-.120	-.130	-.251	-.498	-.743
42	87.5	-.080	-.060	-.132	-.196	-.231	-.340
43	94.2	-.050	-.021	-.120	-.188	-.228	-.242
E44	2.0	-1.911	-1.520	-1.253	-1.058	-.916	-.759
45	6.0	-1.662	-1.500	-1.279	-1.218	-.975	-.836
46	15.0	-1.080	-1.407	-1.213	-1.071	-.952	-.829
47	27.5	-.690	-1.328	-1.150	-1.051	-.960	-.856
48	40.0	-.561	-.895	-.956	-.940	-.857	-.810
49	50.0	-.459	-.710	-.805	-.809	-.708	-.804
50	59.0	-.357	-.530	-.730	-.745	-.663	-.768
51	67.5	-.260	-.310	-.519	-.631	-.626	-.682
52	77.5	-.160	-.153	-.310	-.380	-.500	-.530
53	88.5	-.060	-.070	-.241	-.370	-.500	-.396
54	95.5	-.047	-.061	-.230	-.370	-.461	-.407
F55	2.0	-1.948	-1.535	-1.268	-1.075	-.921	-.762
56	6.0	-1.780	-1.489	-1.268	-1.098	-.958	-.811
57	15.0	-.950	-1.410	-1.204	-1.070	-.950	-.820
58	27.5	-.680	-1.303	-1.139	-1.042	-.931	-.850
59	49.0	-.569	-1.020	-1.048	-1.000	-.904	-.820
60	50.0	-.460	-.630	-.710	-.735	-.808	-.814
61	59.0	-.359	-.315	-.645	-.630	-.667	-.632
62	67.5	-.266	-.370	-.590	-.610	-.652	-.600
63	86.5	-.090	-.085	-.393	-.598	-.660	-.595
64	94.5	.048	-.012	-.231	-.475	-.583	-.554
G65	2.0	-1.991	-1.503	-1.240	-1.050	-.896	-.741
66	6.0	-1.618	-1.470	-1.248	-1.074	-.939	-.792
67	15.0	-.867	-1.365	-1.190	-1.048	-.930	-.800
68	27.5	-.653	-1.264	-1.140	-1.060	-.949	-.830
69	40.0	-.570	-1.080	-1.082	-1.004	-.970	-.868
70	50.0	-.460	-.550	-1.063	-.900	-.920	-.821
71	59.0	-.350	-.375	-.890	-.985	-.917	-.818
72	67.5	-.251	-.270	-.748	-.874	-.900	-.802
73	77.5	-.142	-.144	-.125	-.215	-.676	-.624
74	87.2	-.079	-.070	-.050	-.050	-.040	--
75	96.8	-.035	-.020	.000	.009	-.003	-.004
H76	2.0	-1.468	-1.400	-1.150	-.975	-.837	-.688
77	6.0	-.960	-1.360	-1.140	-.980	-.856	-.743
78	15.0	-.700	-1.190	-1.080	-.955	-.860	-.736
79	27.5	-.583	-.752	-.910	-.882	-.823	-.713
80	40.0	-.500	-.651	-.742	-.721	-.698	-.642
81	50.0	-.430	-.583	-.650	-.700	-.676	-.640
82	59.0	-.336	-.445	-.540	-.580	-.598	-.572
83	67.5	-.250	-.325	-.375	-.420	-.450	-.444
84	88.3	-.111	-.183	-.209	-.233	-.247	-.229
85	94.2	--	--	--	--	--	--

Tube	Percent chord	Lower surface, Mach number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.036	-0.104	-0.130	-0.175	-0.229	-0.289
91	62.5	-.038	-.099	-.109	-.134	-.153	-.179
92	72.5	-.021	-.088	-.095	-.119	-.130	-.108
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.720	.735	.735	.714	.690	.690
96	10.0	.390	.395	.394	.375	.360	.370
97	25.0	.109	.084	.075	.050	.033	.045
98	41.0	-.080	-.069	-.087	-.123	-.160	-.155
99	52.5	-.050	-.105	-.128	-.169	-.225	-.238
100	62.5	-.070	-.089	-.101	-.138	-.177	-.229
101	72.5	.000	-.049	-.052	-.075	-.095	-.129
102	86.3	.026	-.029	-.025	-.040	-.050	-.060
103	94.5	.029	-.040	-.030	-.045	-.055	-.050
104	3.0	.716	.709	.700	.682	.670	.675
105	10.0	.420	.420	.419	.402	.395	.403
106	25.0	.166	.159	.153	.138	.128	.142
107	41.0	.028	.001	-.015	-.041	-.065	-.051
108	52.5	-.020	-.058	-.079	-.119	-.155	-.151
109	62.5	-.018	-.055	-.072	-.110	-.152	-.162
110	72.5	.020	-.009	-.021	-.054	-.089	-.100
111	85.1	.056	.033	.029	.008	-.009	-.040
112	94.6	.080	.045	.062	.049	.045	.010
113	3.0	.698	.675	.670	.650	.638	.640
114	10.0	.422	.420	.419	.403	.395	.405
115	25.0	.178	.173	.169	.151	.145	.158
116	41.0	.048	.031	.018	-.009	-.025	-.010
117	52.5	.010	-.011	-.034	-.064	-.088	-.075
118	62.5	.009	-.009	-.039	-.072	-.100	-.090
119	72.5	.040	.031	.009	-.031	-.055	-.069
120	87.4	.090	.125	.079	.045	.019	.025
121	94.2	.070	.185	.042	.003	-.029	-.019
122	3.0	.710	.720	.701	.698		.690
123	10.0	.436	.451	.440	.437		.440
124	25.0	.191	.202	.190	.187		.186
125	41.0	.069	.066	.049	.039		.029
126	52.5	.040	.039	.021	.006		-.009
127	62.5	.027	.019	.000	-.021		-.041
128	72.5	.045	.041	.014	-.011		-.049
129	78.0	.057	.056	.025	-.007		-.042
130	85.3	.089	.096	.058	.020		-.017
131	94.1	.090	.106	.042	-.004		.002
132	3.0	.710	.720	.703	.698		.690
133	10.0	.430	.450	.442	.440		.442
134	25.0	.195	.202	.198	.190		.198
135	41.0	.075	.071	.062	.054		.042
136	52.5	.051	.024	.011	.002		-.018
137	62.5	.038	.031	.021	.010		-.002
138	72.5	.065	.064	.059	.050		.032
139	83.4	.107	.121	.129	.124		.100
140	94.0	.045	.059	.042	.019		-.066
141	3.0	.700	.720	.710	.704		.704
142	10.0	.415	.440	.432	.430		.440
143	25.0	.190	.200	.198	.196		.198
144	41.0	.069	.062	.053	.050		.040
145	52.5	.032	.021	.017	.009		-.002
146	62.5	.040	.040	.024	.020		.015
147	72.5	.060	.050	.036	.040		.032
148	84.0	.100	.100	.106	.110		.154
149	92.0	.060	.051	.059	.067		.087
150	3.0	.757	.785	.763	.769		.750
151	10.0	.399	.418	.413	.417		.440
152	25.0	.170	.191	.192	.197		.208
153	41.0	.028	.018	.010	.006		.009
154	52.5	-.014	-.045	-.058	-.070		-.008
155	62.5	.015	-.020	-.032	-.042		-.050
156	72.5	.041	.018	.010	.000		.018
157	84.9	.030	-.011	-.027	-.034		-.030

[redacted]

TABLE 22

[$\Lambda = -30^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = 10^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80				
A 1	2.0	--	--				
2	6.0	--	--				
3	15.0	--	--				
4	27.5	--	--				
5	40.0	--	--				
6	50.0	-0.368	-0.414				
7	59.0	-.343	-.380				
8	67.5	-.334	-.360				
9	77.5	--	--				
10	87.5	--	--				
11	96.0	--	--				
B12	2.0	-.518	-.530				
13	6.0	-.555	-.562				
14	15.0	-.588	-.585				
15	27.5	-.612	-.622				
16	40.0	-.580	-.620				
17	50.0	-.528	-.560				
18	59.0	-.480	-.510				
19	67.5	-.451	-.465				
20	77.5	-.427	-.431				
21	88.0	-.370	-.402				
22	95.3	--	--				
C23	2.0	-.788	-.852				
24	6.0	-.780	-.851				
25	15.0	-.768	-.809				
26	27.5	-.700	-.737				
27	40.0	-.645	-.670				
28	50.0	-.590	-.580				
29	59.0	-.590	-.558				
30	67.5	-.542	-.492				
31	77.5	-.517	-.470				
32	88.0	-.411	-.428				
33	95.3	--	--				
D34	2.0	-.962	-1.231				
35	15.0	-.890	-1.039				
36	27.5	-.862	-.830				
37	40.0	-.840	-.628				
38	50.0	-.781	-.534				
39	59.0	-.620	-.470				
40	67.5	--	--				
41	77.5	-.398	-.542				
42	87.5	-.400	-.518				
43	94.2	-.301	-.470				
E44	2.0	-.970	-1.240				
45	6.0	-.982	-1.259				
46	15.0	-.970	-1.098				
47	27.5	-.973	-.961				
48	40.0	-.966	-.848				
49	50.0	-.930	-.780				
50	59.0	-.869	-.730				
51	67.5	-.790	-.680				
52	77.5	-.640	-.628				
53	88.5	-.409	-.509				
54	95.5	-.240	-.450				
F55	2.0	-1.106	-1.495				
56	6.0	-1.132	-1.510				
57	15.0	-1.120	-1.340				
58	27.5	-1.125	-1.058				
59	49.0	-1.100	-.869				
60	50.0	-1.014	-.800				
61	59.0	-.890	-.735				
62	67.5	-.720	-.710				
63	86.5	-.189	-.529				
64	94.5	-.047	-.385				
G65	2.0	-1.472	-1.720				
66	6.0	-1.519	-1.628				
67	15.0	-1.500	-1.523				
68	27.5	-1.400	-1.460				
69	40.0	-1.049	-1.110				
70	50.0	-.617	-.930				
71	59.0	-.350	-.720				
72	67.5	-.251	-.540				
73	77.5	-.147	-.288				
74	87.2	-.070	-.060				
75	96.8	-.026	-.015				
H76	2.0	-2.300	-1.663				
77	6.0	-2.238	-1.600				
78	15.0	-.954	-1.480				
79	27.5	-.740	-1.340				
80	40.0	-.598	-.849				
81	50.0	-.510	-.756				
82	59.0	-.402	-.545				
83	67.5	-.319	-.410				
84	88.3	-.174	-.245				
85	94.2	--	--				

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80				
86	3.0	--	--				
87	10.0	--	--				
88	25.0	--	--				
89	41.0	--	--				
90	52.5	-0.060	-0.119				
91	62.5	-.072	-.113				
92	72.5	-.072	-.114				
93	84.0	--	--				
94	94.0	--	--				
95	3.0	.809	.850				
96	10.0	.471	.502				
97	25.0	.161	.159				
98	41.0	.003	-.030				
99	52.5	-.050	-.097				
100	62.5	-.060	-.108				
101	72.5	-.038	-.074				
102	86.3	-.042	-.069				
103	94.5	-.072	-.090				
104	3.0	.780	.815				
105	10.0	.501	.533				
106	25.0	.230	.245				
107	41.0	.060	.045				
108	52.5	-.003	-.039				
109	62.5	-.022	-.068				
110	72.5	-.002	-.048				
111	85.1	.000	-.045				
112	94.6	-.028	-.063				
113	3.0	.770	.795				
114	10.0	.513	.539				
115	25.0	.257	.269				
116	41.0	.102	.091				
117	52.5	.060	.020				
118	62.5	.030	-.015				
119	72.5	.048	.000				
120	87.4	.080	.029				
121	94.2	.020	-.069				
122	3.0	.780	.822				
123	10.0	.518	.560				
124	25.0	.265	.297				
125	41.0	.123	.130				
126	52.5	.080	.078				
127	62.5	.055	.035				
128	72.5	.060	.028				
129	78.0	.061	.022				
130	85.3	.090	.038				
131	94.1	.070	-.021				
132	3.0	.790	.828				
133	10.0	.530	.568				
134	25.0	.280	.303				
135	41.0	.141	.150				
136	52.5	.085	.080				
137	62.5	.075	.068				
138	72.5	.095	.076				
139	83.4	.139	.128				
140	94.0	.075	-.002				
141	3.0	.806	.834				
142	10.0	.538	.568				
143	25.0	.290	.312				
144	41.0	.141	.150				
145	52.5	.095	.098				
146	62.5	.085	.110				
147	72.5	.090	.092				
148	84.0	.129	.158				
149	92.0	.065	.072				
150	3.0	.880	.900				
151	10.0	.540	.562				
152	25.0	.279	.309				
153	41.0	.101	.110				
154	52.5	.048	.038				
155	62.5	.050	.040				
156	72.5	.060	.053				
157	84.9	.010	-.028				

[redacted]

TABLE 23

$\left[\Lambda = -45^{\circ},\ \delta_{a_n} = 0^{\circ},\ \alpha = -2^{\circ}\right]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	--	--	--	--	--	
2	6.0	--	--	--	--	--	
3	15.0	--	--	--	--	--	
4	27.5	--	--	--	--	--	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	-0.092	-0.100	-0.100	-0.094	-0.238	
8	67.5	-.064	-.065	-.068	-.050	-.120	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	--	--	--	--	--	
15	27.5	-.156	-.193	-.250	-.330	-.333	
16	40.0	-.171	-.205	-.249	-.352	-.394	
17	50.0	-.164	-.190	-.222	-.304	-.405	
18	59.0	-.140	-.163	-.174	-.209	-.392	
19	67.5	-.100	-.112	-.124	-.120	-.330	
20	77.5	-.053	-.062	-.070	-.060	-.244	
21	88.0	.018	.018	.010	.018	-.094	
22	95.3	--	--	--	--	--	
C23	2.0	.353	.395	.410	.420	.440	
24	6.0	.120	.152	.167	.176	.190	
25	15.0	-.044	-.043	-.045	-.041	-.021	
26	27.5	-.130	-.158	-.190	-.200	-.185	
27	40.0	-.170	-.203	-.260	-.291	-.283	
28	50.0	-.160	-.188	-.261	-.340	-.340	
29	59.0	-.152	-.180	-.225	-.314	-.322	
30	67.5	-.106	-.126	-.158	-.241	-.274	
31	77.5	-.060	-.080	-.102	-.164	-.248	
32	88.0	.026	.008	-.013	-.043	-.160	
33	95.3	--	--	--	--	--	
D34	2.0	.268	.295	.296	.298	.294	
35	15.0	-.038	-.034	-.038	-.043	-.050	
36	27.5	-.107	-.118	-.128	-.138	-.142	
37	40.0	-.158	-.178	-.200	-.210	-.217	
38	50.0	-.160	-.186	-.210	-.228	-.217	
39	59.0	-.117	-.152	-.192	-.220	-.220	
40	67.5	--	--	--	--	--	
41	77.5	-.090	-.080	-.100	-.124	-.120	
42	87.5	.000	-.020	-.048	-.080	-.078	
43	94.2	.038	.018	-.009	-.040	-.038	
E44	2.0	.271	.291	.295	.294	.260	
45	6.0	.090	.105	.100	.100	.070	
46	15.0	-.037	-.040	-.052	-.059	-.100	
47	27.5	-.107	-.118	-.135	-.145	-.185	
48	40.0	-.151	-.170	-.198	-.210	-.250	
49	50.0	-.151	-.170	-.198	-.211	-.260	
50	59.0	-.136	-.151	-.180	-.191	-.239	
51	67.5	-.110	-.121	-.148	-.160	-.200	
52	77.5	-.061	-.069	-.069	-.065	-.082	
53	88.5	.098	-.010	.079	.073	.059	
54	95.5	.010	-.009	-.003	-.009	-.025	
F55	2.0	--	--	--	--	--	
56	6.0	.091	.109	.105	.105	.070	
57	15.0	-.035	-.030	-.041	-.050	-.085	
58	27.5	-.105	-.112	-.130	-.140	-.181	
59	49.0	-.148	-.161	-.180	-.200	-.245	
60	50.0	-.149	-.165	-.185	-.201	-.249	
61	59.0	-.131	-.145	-.161	-.180	-.220	
62	67.5	-.103	-.118	-.140	-.151	-.196	
63	86.5	-.005	-.011	-.025	-.031	-.051	
64	94.5	.005	.002	.010	-.015	-.045	
G65	2.0	.302	.330	.335	.350	.315	
66	6.0	.115	.135	.132	.139	.112	
67	15.0	-.010	-.005	-.012	-.011	-.040	
68	27.5	-.081	-.089	-.101	-.107	-.140	
69	40.0	-.130	-.140	-.160	-.170	-.202	
70	50.0	-.134	-.149	-.171	-.180	-.212	
71	59.0	-.110	-.120	-.141	-.150	-.189	
72	67.5	-.081	-.091	-.112	-.123	-.161	
73	77.5	-.055	-.069	-.081	-.083	-.120	
74	87.2	.035	.030	.019	.009	-.024	
75	96.8	.061	.040	.022	.010	-.020	
H76	2.0	.258	.291	.310	.310	.295	
77	6.0	.090	.119	.120	.142	.120	
78	15.0	-.010	.000	.000	.010	-.010	
79	27.5	-.075	-.071	-.080	-.072	-.090	
80	40.0	-.119	-.121	-.140	-.140	-.160	
81	50.0	-.129	-.141	-.162	-.170	-.209	
82	59.0	-.110	-.122	-.145	-.151	-.180	
83	67.5	-.080	-.095	-.115	-.124	-.175	
84	88.3	-.012	-.020	-.030	-.030	-.055	
85	94.2	.012	-.011	.003	.008	-.020	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	--	--	--	--	--	
87	10.0	--	--	--	--	--	
88	25.0	--	--	--	--	--	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	-0.046	-0.043	-0.029	-0.020	-0.059	
92	72.5	-.015	-.009	-.006	.003	-.026	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	--	--	--	--	--	
96	10.0	--	--	--	--	--	
97	25.0	-.161	-.132	-.286	-.375	-.476	
98	41.0	-.155	-.150	-.143	-.161	-.344	
99	52.5	-.116	-.118	-.103	-.080	-.259	
100	62.5	-.083	-.083	-.074	-.052	-.147	
101	72.5	-.030	-.029	-.024	-.010	-.072	
102	86.3	.016	.016	.019	.027	-.030	
103	94.5	.056	.055	.054	.060	.000	
104	3.0	-.627	-.853	-.829	-.826	-.811	
105	10.0	-.374	-.485	-.439	-.490	-.644	
106	25.0	-.259	-.365	-.455	-.457	-.454	
107	41.0	--	--	--	--	--	
108	52.5	--	--	--	--	--	
109	62.5	-.116	-.133	-.144	-.344	-.383	
110	72.5	-.049	-.061	-.068	-.152	-.315	
111	85.1	-.002	-.007	-.017	-.029	-.213	
112	94.6	.046	.034	.025	.010	-.149	
113	3.0	-.455	-.567	-.632	-.670	-.689	
114	10.0	-.285	-.330	-.364	-.466	-.505	
115	25.0	-.229	-.285	-.301	-.321	-.383	
116	41.0	-.198	-.246	-.281	-.289	-.303	
117	52.5	-.163	-.202	-.241	-.244	-.237	
118	62.5	--	--	--	--	--	
119	72.5	-.056	-.079	-.118	-.138	-.121	
120	87.4	.014	.005	-.051	-.050	-.038	
121	94.2	.028	.011	-.017	-.052	-.041	
122	3.0	-.374	-.444	-.489	-.518	-.514	
123	10.0	-.246	-.287	-.301	-.328	-.351	
124	25.0	-.211	-.248	-.272	-.295	-.347	
125	41.0	-.181	-.214	-.240	-.261	-.297	
126	52.5	-.129	-.155	-.171	-.112	-.190	
127	62.5	-.103	-.126	-.142	-.149	-.151	
128	72.5	-.059	-.078	-.093	-.102	-.112	
129	78.0	-.025	-.040	-.051	-.058	-.059	
130	85.3	.008	-.004	-.016	-.020	-.021	
131	94.1	.021	.010	.000	-.007	-.009	
132	3.0	--	--	--	--	--	
133	10.0	-.229	-.271	-.286	-.303	-.326	
134	25.0	-.195	-.229	-.250	-.287	-.325	
135	41.0	-.169	-.200	-.225	-.242	-.284	
136	52.5	-.139	-.164	-.184	-.192	-.242	
137	62.5	-.089	-.109	-.129	-.134	-.151	
138	72.5	-.043	-.058	-.068	-.076	-.090	
139	83.4	.010	-.001	-.009	-.012	-.019	
140	94.0	.027	.016	.008	.002	-.009	
141	3.0	-.328	-.371	-.379	-.375	-.371	
142	10.0	-.228	-.262	-.279	-.278	-.278	
143	25.0	-.185	-.215	-.236	-.263	-.267	
144	41.0	-.156	-.181	-.196	-.200	-.225	
145	52.5	-.125	-.145	-.161	-.169	-.181	
146	62.5	-.060	-.066	-.092	-.099	-.110	
147	72.5	-.042	-.057	-.068	-.076	-.098	
148	84.0	.016	.004	-.002	-.006	-.016	
149	92.0	.033	.026	.024	.022	.012	
150	3.0	-.299	-.334	-.338	-.337	-.336	
151	10.0	-.176	-.186	-.177	-.162	-.147	
152	25.0	.322	.224	.168	.117	.080	
153	41.0	-.159	-.184	-.208	-.231	-.221	
154	52.5	-.130	-.153	-.173	-.196	-.256	
155	62.5	.078	-.092	-.104	-.109	-.148	
156	72.5	-.022	-.025	-.027	-.025	-.027	
157	84.9	.027	.026	.029	.029	.032	

NACA

[redacted]

TABLE 24

$[\Lambda = -45^\circ, \delta_{a_n} = 0^\circ, \alpha = 2^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	--	--	--	--	--	
2	6.0	--	--	--	--	--	
3	15.0	--	--	--	--	--	
4	27.5	--	--	--	--	--	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	-0.103	-0.100	-0.080	-0.053	-0.123	
8	67.5	-.074	-.070	-.052	-.030	-.065	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	95.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	--	--	--	--	--	
15	27.5	-.258	-.231	-.290	-.591	-.644	
16	40.0	-.232	-.241	-.152	-.500	-.597	
17	50.0	-.208	-.219	-.145	-.269	-.560	
18	59.0	-.170	-.172	-.125	-.062	-.421	
19	67.5	-.110	-.124	-.093	-.024	-.282	
20	77.5	-.066	-.068	-.098	-.003	-.128	
21	88.0	.008	.010	.020	.034	-.060	
22	95.3	--	--	--	--	--	
C23	2.0	-.680	-.703	-.583	-.510	-.430	
24	6.0	-.510	-.592	-.540	-.510	-.460	
25	15.0	-.411	-.578	-.548	-.530	-.490	
26	27.5	-.338	-.463	-.580	-.561	-.541	
27	40.0	-.300	-.368	-.600	-.575	-.570	
28	50.0	-.240	-.262	-.525	-.530	-.514	
29	59.0	-.210	-.230	-.411	-.532	-.494	
30	67.5	-.147	-.160	-.172	-.440	-.390	
31	77.5	-.090	-.100	-.070	-.332	-.370	
32	88.0	.000	-.004	.017	-.094	-.251	
33	95.3	--	--	--	--	--	
D34	2.0	-.450	-.481	-.432	-.388	-.332	
35	15.0	-.338	-.398	-.422	-.428	-.410	
36	27.5	-.310	-.372	-.410	-.440	-.430	
37	40.0	-.300	-.370	-.410	-.438	-.451	
38	50.0	-.262	-.328	-.375	-.397	-.407	
39	59.0	-.200	-.240	-.304	-.325	-.333	
40	67.5	--	--	--	--	--	
41	77.5	-.093	-.120	-.164	-.170	-.171	
42	87.5	-.030	-.041	-.083	-.102	-.093	
43	94.2	.015	.000	-.040	-.060	-.050	
E44	2.0	-.421	-.451	-.435	-.385	-.210	
45	6.0	-.352	-.400	-.410	-.390	-.241	
46	15.0	-.320	-.371	-.400	-.400	-.269	
47	27.5	-.302	-.350	-.393	-.400	-.295	
48	40.0	-.291	-.348	-.380	-.400	-.300	
49	50.0	-.260	-.300	-.339	-.355	-.251	
50	59.0	-.219	-.252	-.300	-.311	-.211	
51	67.5	-.151	-.173	-.183	-.200	-.100	
52	77.5	-.080	-.093	-.100	-.110	.000	
53	88.5	.055	.045	.035	-.030	.160	
54	95.5	.000	.005	-.015	-.020	.105	
F55	2.0	--	--	--	--	--	
56	6.0	-.331	-.370	-.390	-.360	-.205	
57	15.0	-.302	-.341	-.375	-.371	-.230	
58	27.5	-.286	-.329	-.365	-.373	-.250	
59	49.0	-.279	-.319	-.358	-.365	-.260	
60	50.0	-.250	-.281	-.320	-.328	-.264	
61	59.0	-.219	-.252	-.295	-.310	-.198	
62	67.5	-.160	-.165	-.200	-.229	-.162	
63	86.5	-.030	-.035	-.050	-.055	.041	
64	94.5	.000	-.001	-.011	-.015	.062	
G65	2.0	-.268	-.300	-.179	-.231	-.060	
66	6.0	-.271	-.300	-.302	-.281	-.130	
67	15.0	-.250	-.280	-.300	-.295	-.158	
68	27.5	-.248	-.275	-.295	-.295	-.171	
69	40.0	-.241	-.275	-.300	-.302	-.181	
70	50.0	-.221	-.245	-.270	-.275	-.170	
71	59.0	-.190	-.215	-.240	-.250	-.142	
72	67.5	-.160	-.183	-.225	-.242	-.125	
73	77.5	-.039	-.040	-.046	-.040	-.115	
74	87.2	.000	-.002	-.010	-.012	.029	
75	96.8	.025	.021	.018	.012	.105	
H76	2.0	-.223	-.223	-.205	-.170	.110	
77	6.0	-.231	-.249	-.245	-.229	-.008	
78	15.0	-.200	-.220	-.220	-.210	-.075	
79	27.5	-.193	-.211	-.215	-.200	-.071	
80	40.0	-.200	-.215	-.231	-.225	-.059	
81	50.0	-.181	-.203	-.221	-.225	-.070	
82	59.0	-.148	-.161	-.180	-.181	-.100	
83	67.5	-.110	-.121	-.141	-.140	-.055	
84	88.3	-.030	-.040	-.049	-.045	-.039	
85	94.2	-.003	-.010	-.018	-.010	-.081	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	--	--	--	--	--	
87	10.0	--	--	--	--	--	
88	25.0	--	--	--	--	--	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	-0.028	-0.032	-0.036	-0.035	-0.098	
92	72.5	-.003	-.005	-.005	-.005	-.049	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	--	--	--	--	--	
96	10.0	--	--	--	--	--	
97	25.0	-.065	-.097	-.136	-.187	-.239	
98	41.0	-.088	-.110	-.139	-.172	-.268	
99	52.5	-.069	-.085	-.106	-.139	-.235	
100	62.5	-.055	-.067	-.079	-.093	-.214	
101	72.5	-.013	.003	.003	-.003	-.151	
102	86.3	.036	.032	.031	.032	-.065	
103	94.5	.077	.075	.078	.062	.005	
104	3.0	.262	.270	.260	.243	.241	
105	10.0	.069	.065	.051	.036	.038	
106	25.0	-.042	-.064	-.095	-.120	-.121	
107	41.0	--	--	--	--	--	
108	52.5	--	--	--	--	--	
109	62.5	-.059	-.083	-.114	-.165	-.210	
110	72.5	-.015	-.019	-.037	-.075	-.155	
111	85.1	.023	.015	.003	-.035	-.113	
112	94.6	.061	.055	.049	.010	-.091	
113	3.0	.185	.181	.168	.150	.140	
114	10.0	.060	.053	.043	.031	.026	
115	25.0	-.032	-.045	-.062	-.075	-.079	
116	41.0	-.068	-.085	-.106	-.120	-.120	
117	52.5	-.068	-.087	-.108	-.125	-.132	
118	62.5	--	--	--	--	--	
119	72.5	-.022	-.035	-.057	-.077	-.081	
120	87.4	.050	.034	.014	-.007	-.004	
121	94.2	.047	.030	.005	-.020	-.025	
122	3.0	.123	.219	.211	.193	.172	
123	10.0	.053	.068	.060	.048	.030	
124	25.0	-.042	-.037	-.049	-.062	-.060	
125	41.0	-.075	-.065	-.088	-.099	-.117	
126	52.5	-.063	-.059	-.071	-.081	-.098	
127	62.5	-.052	-.049	-.062	-.071	-.086	
128	72.5	-.032	-.028	-.040	-.049	-.064	
129	78.0	-.012	-.009	-.015	-.019	-.024	
130	85.3	.028	.037	.031	.026	.019	
131	94.1	.026	.030	.022	.017	.010	
132	3.0	--	--	--	--	--	
133	10.0	.051	.066	.059	.045	.028	
134	25.0	-.037	-.033	-.044	-.055	-.073	
135	41.0	-.070	-.071	-.084	-.105	-.115	
136	52.5	-.070	-.070	-.081	-.090	-.106	
137	62.5	-.043	-.041	-.049	-.057	-.071	
138	72.5	-.020	-.019	-.030	-.041	-.058	
139	83.4	.031	.046	.042	.040	.028	
140	94.0	.031	.034	.025	.021	.008	
141	3.0	.177	.206	.210	.201	.194	
142	10.0	.036	.054	.052	.040	.037	
143	25.0	-.043	-.036	-.042	-.049	-.058	
144	41.0	-.072	-.068	-.076	-.082	-.092	
145	52.5	-.068	-.066	-.075	-.081	-.090	
146	62.5	-.046	-.044	-.055	-.059	-.070	
147	72.5	-.026	-.022	-.031	-.037	-.050	
148	84.0	.023	.040	.034	.031	.018	
149	92.0	.030	.037	.033	.031	.021	
150	3.0	.153	.188	.200	.202	.207	
151	10.0	.038	.069	.083	.089	.097	
152	25.0	.226	.163	.130	.087	.093	
153	41.0	-.098	-.101	-.116	-.127	-.136	
154	52.5	-.095	-.102	-.120	-.134	-.178	
155	62.5	-.057	-.060	-.072	-.078	-.086	
156	72.5	-.017	-.007	-.008	-.006	-.006	
157	84.9	.006	.018	.018	.090	.019	

NACA

[redacted]

TABLE 25

$\left[\Lambda = -45^\circ,\ \delta_{a_n} = 0^\circ,\ \alpha = 7^\circ\right]$

[redacted]

Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96
UPPER SURFACE						
A 1	2.0	--	--	--	--	--
2	6.0	--	--	--	--	--
3	15.0	--	--	--	--	--
4	27.5	--	--	--	--	--
5	40.0	--	--	--	--	--
6	50.0	--	--	--	--	--
7	59.0	-0.151	-0.339	-0.400	-0.438	-0.528
8	67.5	-.120	-.299	-.388	-.438	-.540
9	77.5	--	--	--	--	--
10	87.5	--	--	--	--	--
11	96.0	--	--	--	--	--
B12	2.0	--	--	--	--	--
13	6.0	--	--	--	--	--
14	15.0	--	--	--	--	--
15	27.5	-.672	-.632	-.650	-.662	-.730
16	40.0	-.580	-.544	-.658	-.672	-.735
17	50.0	-.460	-.602	-.622	-.695	-.710
18	59.0	-.352	-.540	-.582	-.613	-.700
19	67.5	-.258	-.462	-.520	-.562	-.648
20	77.5	-.163	-.369	-.443	-.482	-.565
21	88.0	-.088	-.232	-.285	-.322	-.356
22	95.3	--	--	--	--	--
C23	2.0	-.800	-.635	-.798	-.783	-.800
24	6.0	-.810	-.748	-.812	-.780	-.810
25	15.0	-.758	-.621	-.740	-.738	-.762
26	27.5	-.700	-.608	-.690	-.717	-.750
27	40.0	-.580	-.540	-.621	-.698	-.731
28	50.0	-.418	-.521	-.538	-.620	-.647
29	59.0	-.343	-.458	-.530	-.561	-.564
30	67.5	-.260	-.350	-.430	-.478	-.485
31	77.5	-.195	-.270	-.310	-.330	-.330
32	88.0	-.110	-.192	-.205	-.231	-.254
33	95.3	--	--	--	--	--
D34	2.0	-1.465	-1.255	-1.217	-1.172	-1.060
35	15.0	-.628	-.943	-1.052	-1.058	-.981
36	27.5	-.482	-.560	-.804	-.988	-.953
37	40.0	-.436	-.446	-.497	-.812	-.902
38	50.0	-.351	-.367	-.340	-.311	-.500
39	59.0	-.252	-.331	-.338	-.268	-.437
40	67.5	--	--	--	--	--
41	77.5	-.155	-.191	-.173	-.133	-.170
42	87.5	-.104	-.146	-.130	-.100	-.100
43	94.2	-.082	-.113	-.121	-.101	-.093
E44	2.0	-1.421	-1.539	-1.315	-1.341	-1.050
45	6.0	-1.379	-1.478	-1.270	-1.300	-1.019
46	15.0	-.922	-1.041	-1.159	-1.210	-.952
47	27.5	-.478	-.552	-.989	-1.113	-.906
48	40.0	-.400	-.419	-.565	-.975	-.871
49	50.0	-.338	-.351	-.348	-.753	-.704
50	59.0	-.265	-.281	-.237	-.415	-.300
51	67.5	-.205	-.225	-.185	-.500	-.240
52	77.5	-.130	-.150	-.120	-.357	-.160
53	88.5	-.081	-.094	-.081	-.210	-.102
54	95.5	-.088	-.090	-.081	-.149	-.108
F55	2.0	--	--	--	--	--
56	6.0	-1.374	-1.478	-1.250	-1.290	-.999
57	15.0	-.680	-1.000	-1.135	-1.210	-.941
58	27.5	-.505	-.611	-.993	-1.142	-.897
59	49.0	-.400	-.447	-.515	-.761	-.760
60	50.0	-.330	-.359	-.371	-.860	-.500
61	59.0	-.260	-.280	-.293	-.719	-.322
62	67.5	-.200	-.220	-.220	-.334	-.245
63	86.5	-.100	-.103	-.119	-.139	-.140
64	94.5	-.075	-.070	-.084	-.108	-.110
G65	2.0	-1.548	-1.304	-1.261	-1.300	-1.009
66	6.0	-1.070	-1.280	-1.125	-1.250	-.969
67	15.0	-.600	-.882	-1.125	-1.148	-.858
68	27.5	-.445	-.540	-.580	-1.099	-.781
69	40.0	-.381	-.413	-.451	-.890	-.482
70	50.0	-.315	-.340	-.371	-1.509	-.427
71	59.0	-.246	-.265	-.280	-.351	-.305
72	67.5	-.190	-.199	-.220	-.319	-.235
73	77.5	-.110	-.112	-.122	-.183	-.135
74	87.2	-.079	-.072	-.072	-.130	-.090
75	96.8	-.042	-.030	-.040	-.113	-.060
H76	2.0	-1.434	-1.295	-1.170	-1.257	-.925
77	6.0	-.660	-1.245	-1.021	-1.289	-.769
78	15.0	-.475	-.502	-.630	-1.050	-.690
79	27.5	-.371	-.408	-.395	-.542	-.383
80	40.0	-.320	-.355	-.351	-.541	-.380
81	50.0	-.280	-.312	-.327	-.450	-.330
82	59.0	-.230	-.260	-.277	-.360	-.270
83	67.5	-.190	-.220	-.235	-.330	-.231
84	88.3	-.135	-.162	-.185	-.350	-.192
85	94.2	-.098	-.120	-.130	-.245	-.124

Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96
LOWER SURFACE						
86	[illegible].0	--	--	--	--	--
87	1[illegible].3	--	--	--	--	--
88	25.0	--	--	--	--	--
89	41.0	--	--	--	--	--
90	52.5	--	--	--	--	--
91	62.5	-0.022	-0.060	-0.101	-0.130	-0.159
92	72.5	-.008	-.048	-.088	-.121	-.164
93	84.0	--	--	--	--	--
94	94.0	--	--	--	--	--
95	3.0	--	--	--	--	--
96	10.0	--	--	--	--	--
97	25.0	-.038	.000	-.033	-.044	-.036
98	41.0	-.022	-.063	-.102	-.115	-.109
99	52.5	-.028	-.072	-.117	-.141	-.144
100	62.5	-.032	-.075	-.115	-.139	-.129
101	72.5	.003	-.043	-.080	-.102	-.099
102	86.3	.010	-.036	-.073	-.101	-.125
103	94.5	.020	-.037	-.071	-.096	-.117
104	3.0	.649	.676	.686	.689	.694
105	10.0	-.046	.403	.411	.415	.425
106	25.0	.148	.146	.143	.145	.158
107	41.0	--	--	--	--	--
108	52.5	--	--	--	--	--
109	62.5	-.015	-.051	-.081	-.089	-.082
110	72.5	.013	-.022	-.049	-.055	-.044
111	85.1	.013	-.017	-.044	-.062	-.051
112	94.6	.020	-.022	-.049	-.062	-.056
113	3.0	.566	.561	.556	.559	.565
114	10.0	.365	.370	.370	.373	.383
115	25.0	.176	.182	.183	.187	.200
116	41.0	.076	.074	.075	.079	.091
117	52.5	.031	.026	.023	.025	.038
118	62.5	--	--	--	--	--
119	72.5	.037	.023	.015	.018	.025
120	87.4	.050	.050	.054	.043	.057
121	94.2	.017	.004	-.012	-.003	.002
122	3.0	.489	.572	.566	.563	.556
123	10.0	.281	.368	.364	.361	.356
124	25.0	.175	.186	.184	.182	.177
125	41.0	.086	.091	.087	.084	.079
126	52.5	.061	.078	.063	.061	.057
127	62.5	.036	.036	.031	.027	.023
128	72.5	.037	.033	.025	.022	.013
129	78.0	.048	.044	.040	.037	.031
130	85.3	.053	.052	.051	.048	.044
131	94.1	.028	.024	.023	.020	.013
132	3.0	--	--	--	--	--
133	10.0	.332	.367	.364	.363	.359
134	25.0	.173	.187	.187	.185	.183
135	41.0	.084	.091	.087	.085	.081
136	52.5	.047	.050	.045	.044	.039
137	62.5	.033	.045	.041	.038	.035
138	72.5	.050	.053	.049	.047	.045
139	83.4	.064	.066	.064	.063	.061
140	94.0	.020	.014	.003	-.004	-.011
141	3.0	.549	.565	.568	.570	.569
142	10.0	.331	.352	.357	.358	.360
143	25.0	.166	.182	.186	.188	.189
144	41.0	.077	.087	.089	.091	.093
145	52.5	.047	.053	.054	.054	.056
146	62.5	.043	.048	.045	.045	.045
147	72.5	.041	.044	.042	.041	.039
148	84.0	.074	.073	.073	.075	.076
149	92.0	.046	.041	.037	.039	.040
150	3.0	.539	.563	.574	.580	.585
151	10.0	.314	.344	.359	.367	.375
152	25.0	-.368	.188	.227	.233	.249
153	41.0	.037	.044	.046	.049	.053
154	52.5	.000	.001	-.001	-.002	-.005
155	62.5	.017	.016	.031	.012	.011
156	72.5	.043	.048	.053	.059	.065
157	84.9	-.009	-.001	-.001	.003	.011

NACA

[redacted]

TABLE 26

[$\Lambda = -45^\circ$, $\delta_{a_n} = 0^\circ$, $\alpha = 10^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	--	--	--	--	--	
2	6.0	--	--	--	--	--	
3	15.0	--	--	--	--	--	
4	27.5	--	--	--	--	--	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	-0.190	-0.310	-0.252	-0.220	-0.353	
8	67.5	-.229	-.380	-.356	-.332	-.431	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	--	--	--	--	--	
15	27.5	-.485	-.383	-.488	-.620	-.783	
16	40.0	-.502	-.451	-.550	-.635	-.800	
17	50.0	-.500	-.512	-.581	-.648	-.780	
18	59.0	-.472	-.525	-.575	-.622	-.739	
19	67.5	-.434	-.520	-.560	-.592	-.692	
20	77.5	-.388	-.490	-.527	-.549	-.624	
21	88.0	-.270	-.398	-.430	-.442	-.490	
22	95.3	--	--	--	--	--	
C23	2.0	-.780	-.580	-.698	-.785	-.999	
24	6.0	-.800	-.591	-.708	-.788	-.980	
25	15.0	-.791	-.591	-.723	-.782	-.942	
26	27.5	-.790	-.611	-.730	-.782	-.885	
27	40.0	-.725	-.658	-.702	-.756	-.861	
28	50.0	-.580	-.640	-.668	-.698	-.755	
29	59.0	-.546	-.638	-.662	-.700	-.750	
30	67.5	-.500	-.580	-.600	-.633	-.602	
31	77.5	-.412	-.526	-.552	-.594	-.491	
32	88.0	-.172	-.282	-.388	-.454	-.412	
33	95.3	--	--	--	--	--	
D34	2.0	-1.149	-.825	-1.131	-1.100	-1.208	
35	15.0	-1.063	-.871	-1.072	-1.021	-1.110	
36	27.5	-.800	-.950	-.950	-.951	-1.041	
37	40.0	-.815	-.925	-.828	-.802	-.913	
38	50.0	-.826	-.931	-.773	-.719	-.464	
39	59.0	-.580	-.753	-.622	-.519	-.421	
40	67.5	--	--	--	--	--	
41	77.5	-.172	-.203	-.490	-.390	-.480	
42	87.5	-.063	.039	-.250	-.389	-.333	
43	94.2	-.028	.048	-.115	-.230	-.269	
E44	2.0	-1.160	-1.020	-1.482		-1.210	
45	6.0	-1.195	-1.032	-1.399		-1.175	
46	15.0	-1.200	-1.053	-1.360		-1.112	
47	27.5	-1.110	-1.090	-.981		-1.045	
48	40.0	-.750	-1.080	-.880		-.990	
49	50.0	-.644	-1.019	-.644		-.830	
50	59.0	-.542	-.921	-.502		-.451	
51	67.5	-.330	-.600	-.464		-.449	
52	77.5	-.149	-.041	-.280		-.531	
53	88.5	-.030	.050	-.111		-.230	
54	95.5	-.060	-.009	-.118		-.119	
F55	2.0	--	--	--		--	
56	6.0	-1.240	-1.135	-1.437		-1.165	
57	15.0	-1.160	-1.148	-1.320		-1.105	
58	27.5	-1.012	-1.124	-1.200		-1.049	
59	49.0	-1.034	-1.100	-.731		-.790	
60	50.0	-.661	-1.010	-.631		-.783	
61	59.0	-.260	-.750	-.610		-.698	
62	67.5	-.173	-.200	-.294		-.588	
63	86.5	-.090	-.055	-.160		-.130	
64	94.6	-.052	-.040	-.111		-.105	
G65	2.0	-1.298	-1.305	-1.434		-1.179	
66	6.0	-1.321	-1.329	-1.345		-1.141	
67	15.0	-1.361	-1.302	-1.295		-1.060	
68	27.5	-1.210	-1.160	-1.161		-.981	
69	40.0	-.290	-.822	-.710		-.950	
70	50.0	-.285	-.320	-.440		-.630	
71	59.0	-.265	-.262	-.330		-.345	
72	67.5	-.200	-.220	-.310		-.271	
73	77.5	-.115	-.160	-.170		-.190	
74	87.2	-.090	-.115	-.120		-.115	
75	96.8	-.064	-.090	-.102		-.090	
H76	2.0	-1.880	--	-1.380		-1.132	
77	6.0	-1.820	-1.580	-1.300		-1.072	
78	15.0	-.625	-.852	-1.130		-.959	
79	27.5	-.491	-.579	-.605		-.512	
80	40.0	-.411	-.570	-.538		-.490	
81	50.0	-.359	-.400	-.489		-.410	
82	59.0	-.320	-.354	-.381		-.370	
83	67.5	-.275	-.318	-.330		-.312	
84	88.3	-.249	-.290	-.341		-.338	
85	94.2	-.179	-.210	-.225		-.231	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	--	--	--	--	--	
87	10.0	--	--	--	--	--	
88	25.0	--	--	--	--	--	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	-0.023	-0.088	-0.111	-0.131	-0.155	
92	72.5	-.022	-.096	-.120	-.139	-.167	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	--	--	--	--	--	
96	10.0	--	--	--	--	--	
97	25.0	.097	.063	.049	.041	.046	
98	41.0	.020	-.021	-.042	-.054	-.052	
99	52.5	.005	-.042	-.069	-.092	-.101	
100	62.5	-.006	-.060	-.083	-.107	-.111	
101	72.5	.015	-.044	-.063	-.085	-.095	
102	86.3	.004	-.065	-.082	-.105	-.136	
103	94.5	-.009	-.103	-.112	-.126	-.147	
104	3.0	.751	.769	.806	.810	.813	
105	10.0	.506	.513	.541	.545	.550	
106	25.0	.241	.235	.248	.253	.263	
107	41.0	--	--	--	--	--	
108	52.5	--	--	--	--	--	
109	62.5	.030	.004	-.020	-.036	-.036	
110	72.5	.050	.025	.001	-.018	-.022	
111	85.1	.047	.019	-.003	-.041	-.057	
112	94.6	.053	.025	-.009	-.058	-.070	
113	3.0	.651	.658	.675	.681	.685	
114	10.0	.480	.487	.501	.506	.511	
115	25.0	.279	.286	.296	.303	.314	
116	41.0	.159	.161	.168	.171	.184	
117	52.5	.104	.101	.099	.100	.112	
118	62.5	--	--	--	--	--	
119	72.5	.086	.084	.066	.063	.071	
120	87.4	.094	.098	.086	.065	.069	
121	94.2	.061	.074	.029	.010	.001	
122	3.0	.649	.670	.514	.679	.676	
123	10.0	.470	.487	.487	.491	.488	
124	25.0	.278	.293	.292	.295	.294	
125	41.0	.166	.177	.175	.178	.177	
126	52.5	.132	.141	.135	.137	.136	
127	62.5	.093	.100	.086	.085	.084	
128	72.5	.087	.091	.069	.067	.063	
129	78.0	.090	.097	.071	.072	.070	
130	85.3	.093	.104	.075	.076	.077	
131	94.1	.064	.079	.035	.035	.036	
132	3.0	--	--	--	--	--	
133	10.0	.468	.487	.489	.494	.492	
134	25.0	.281	.296	.297	.302	.302	
135	41.0	.167	.179	.178	.181	.181	
136	52.5	.117	.126	.122	.125	.124	
137	62.5	.102	.106	.098	.100	.102	
138	72.5	.100	.102	.091	.093	.094	
139	83.4	.100	.104	.090	.093	.095	
140	94.0	.048	.039	.006	.003	.002	
141	3.0	.648	.672	.681	.692	.694	
142	10.0	.457	.478	.483	.494	.498	
143	25.0	.272	.291	.300	.309	.313	
144	41.0	.160	.175	.181	.190	.194	
145	52.5	.114	.127	.131	.138	.143	
146	62.5	.094	.109	.106	.120	.117	
147	72.5	.081	.089	.089	.095	.097	
148	84.0	.096	.102	.103	.109	.113	
149	92.0	.050	.048	.044	.048	.051	
150	3.0	.659	.685	.703	.717	.722	
151	10.0	.447	.472	.491	.506	.513	
152	25.0	-.149	.204	.232	.241	.250	
153	41.0	.120	.134	.146	.158	.166	
154	52.5	.067	.072	.076	.085	.090	
155	62.5	.067	.068	.071	.078	.083	
156	72.5	.079	.087	.094	.104	.112	
157	84.9	-.020	-.007	-.010	-.005	.002	

NACA

[redacted]

TABLE 27

$\left[\Lambda = 30^{\circ},\ \delta_{a_n} = -10.0^{\circ},\ \alpha = -2^{\circ}\right]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
A 1	2.0	0.266	0.372	0.378	0.390		
2	6.0	.134	.157	.166	.181		
3	15.0	-.020	.007	.007	.032		
4	27.5	-.099	-.089	-.079	-.065		
5	40.0	--	--	--	--		
6	50.0	--	--	--	--		
7	59.0	--	--	--	--		
8	67.5	--	--	--	--		
9	77.5	--	--	--	--		
10	87.5	--	--	--	--		
11	96.0	--	--	--	--		
B12	2.0	.320	.360	.368	.371		
13	6.0	.093	.122	.130	.142		
14	15.0	-.062	-.054	-.046	-.032		
15	27.5	-.166	-.183	-.178	-.166		
16	40.0	-.239	-.290	-.300	-.294		
17	50.0	-.256	-.328	-.360	-.370		
18	59.0	-.238	-.312	-.359	-.402		
19	67.5	-.192	-.260	-.303	-.372		
20	77.5	-.189	-.180	-.210	-.263		
21	88.0	-.047	-.076	-.096	-.122		
22	95.3	--	--	--	--		
C23	2.0	.328	.360	.359	.365		
24	6.0	.084	.098	.104	.115		
25	15.0	-.082	-.091	-.088	-.077		
26	27.5	-.186	.224	-.230	-.223		
27	40.0	-.262	-.337	-.368	-.370		
28	50.0	-.266	-.361	-.422	-.464		
29	59.0	-.246	-.324	-.375	-.472		
30	67.5	--	--	--	--		
31	77.5	-.083	-.103	-.111	-.139		
32	88.0	.023	.027	.019	.041		
33	95.3	.110	.115	.111	.123		
D34	2.0	.277	.315	.314	.312		
35	15.0	-.082	-.104	-.109	-.105		
36	27.5	-.185	-.248	-.267	-.269		
37	40.0	-.259	-.349	-.398	-.435		
38	50.0	-.264	-.355	-.411	-.517		
39	59.0	-.206	-.292	-.350	-.454		
40	67.5	-.179	-.264	-.322	-.400		
41	77.5	-.130	-.090	-.039	-.032		
42	87.5	.041	.043	.046	.068		
43	94.2	.103	.122	.125	.141		
E44	2.0	.393	.387	.382	.368		
45	6.0	.127	.111	.108	.089		
46	15.0	-.045	-.083	-.100	-.117		
47	27.5	-.145	-.207	-.240	-.274		
48	40.0	-.210	-.294	-.349	-.435		
49	50.0	-.204	-.283	-.332	-.450		
50	59.0	-.167	-.231	-.270	-.393		
51	67.5	-.122	-.177	-.166	-.098		
52	77.5	.041	.037	.033	.052		
53	88.5	.212	.226	.229	.233		
54	95.5	.152	.175	.183	.194		
F55	2.0	.393	.376	.366	.345		
56	6.0	.149	.127	.116	.094		
57	15.0	-.026	-.069	-.090	-.119		
58	27.5	-.119	-.184	-.220	-.269		
59	49.0	-.174	-.254	-.301	-.408		
60	50.0	-.154	-.218	-.256	-.339		
61	59.0	-.102	-.162	-.198	-.199		
62	67.5	.017	.009	.016	.047		
63	86.5	--	--	--	--		
64	94.5	--	--	--	--		
G65	2.0	.442	.424	.409	.378		
66	6.0	.186	.165	.148	.119		
67	15.0	.017	-.016	-.039	-.075		
68	27.5	-.078	-.123	-.154	-.194		
69	40.0	-.130	-.185	-.219	-.253		
70	50.0	-.118	-.164	-.193	-.200		
71	59.0	-.061	-.099	-.127	-.162		
72	67.5	.028	.041	.041	.000		
73	77.5	.229	.243	.243	.272		
74	87.2	--	--	--	--		
75	96.8	.129	.155	.126	.161		
H76	2.0	.392	.383	.368	.434		
77	6.0	.129	.110	.091	.066		
78	15.0	-.023	-.067	-.088	-.121		
79	27.5	-.118	-.174	-.206	-.260		
80	40.0	-.160	-.214	-.241	-.285		
81	50.0	-.142	-.176	-.191	-.214		
82	59.0	-.082	-.123	-.151	-.188		
83	67.5	-.066	-.109	-.146	-.087		
84	88.3	.142	.157	.169	.191		
85	94.2	.115	.124	.137	.163		

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
86	3.0	-0.421	-0.448	-0.424	-0.384		
87	10.0	--	--	--	--		
88	25.0	-.318	-.279	-.259	-.256		
89	41.0	--	--	--	--		
90	52.5	--	--	--	--		
91	62.5	--	--	--	--		
92	72.5	--	--	--	--		
93	84.0	--	--	--	--		
94	94.0	--	--	--	--		
95	3.0	-.475	-.538	-.520	-.478		
96	10.0	-.298	-.336	-.335	-.316		
97	25.0	-.285	-.357	-.368	-.356		
98	41.0	-.279	-.381	-.442	-.433		
99	52.5	-.239	-.340	-.490	-.481		
100	62.5	-.176	-.244	-.294	-.497		
101	72.5	-.092	-.132	-.157	-.248		
102	86.3	.006	.037	.064	-.055		
103	94.5	--	--	--	--		
104	3.0	-.501	-.598	-.602	-.570		
105	10.0	-.354	-.441	-.455	-.421		
106	25.0	-.305	-.402	-.436	-.437		
107	41.0	-.294	-.404	-.520	-.532		
108	52.5	-.248	-.334	-.403	-.601		
109	62.5	-.168	-.218	-.227	-.437		
110	72.5	-.063	-.081	-.083	-.095		
111	85.1	.056	.060	.059	.060		
112	94.6	.136	.149	.139	.150		
113	3.0	-.517	-.650	-.690	-.651		
114	10.0	-.347	-.445	-.478	-.462		
115	25.0	-.318	-.429	-.494	-.501		
116	41.0	--	--	--	--		
117	52.5	-.245	-.318	-.336	-.611		
118	62.5	-.156	-.189	-.185	-.301		
119	72.5	-.045	-.050	-.045	-.006		
120	87.4	.086	.094	.092	.106		
121	94.2	.129	.144	.148	.157		
122	3.0		-.639	-.682	-.660		
123	10.0		-.453	-.503	-.474		
124	25.0		-.420	-.501	-.552		
125	41.0		-.391	-.465	-.601		
126	52.5		-.306	-.336	-.545		
127	62.5		-.228	-.240	-.365		
128	72.5		-.098	-.103	-.053		
129	78.0		-.037	-.041	.002		
130	85.3		.053	.053	.078		
131	94.1		.133	.134	.149		
132	3.0		-.685	-.744	-.674		
133	10.0		-.481	-.535	-.530		
134	25.0		-.433	-.501	-.571		
135	41.0		-.420	-.474	-.626		
136	52.5		-.375	-.425	-.605		
137	62.5		-.287	-.315	-.331		
138	72.5		-.231	-.249	-.226		
139	83.4		-.057	-.058	-.044		
140	94.0		-.001	.001	.019		
141	3.0		-.769	-.804	-.709		
142	10.0		-.514	-.598	-.595		
143	25.0		-.477	-.575	-.597		
144	41.0		-.474	-.597	-.689		
145	52.5		-.397	-.530	-.638		
146	62.5		-.245	-.327	-.497		
147	72.5		-.214	-.203	-.287		
148	84.0		-.103	-.103	-.073		
149	92.0		-.006	.001	.033		
150	3.0		-.862	-.949	-.836		
151	10.0		-.400	-.675	-.666		
152	25.0		-.425	-.582	-.624		
153	41.0		-.372	-.369	-.632		
154	52.5		-.279	-.270	-.542		
155	62.5		-.171	-.164	-.176		
156	72.5		-.114	-.109	-.056		
157	84.9		.069	.076	.119		

NACA

[redacted]

TABLE 28

$[\Lambda = 30^\circ, \delta_{a_n} = -10.0^\circ, \alpha = 0^\circ]$

[redacted]

UPPER SURFACE								LOWER SURFACE							
Tube	Percent chord	Mach Number						Tube	Percent chord	Mach Number					
		0.60	0.80	0.85	0.89	0.925	0.96			0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	0.073	0.127	0.153	0.185	0.116	0.250	86	3.0	-0.106	-0.096	-0.086	-0.074	-0.050	0.005
2	6.0	-.066	-.032	-.010	.019	-.048	.094	87	10.0	--	--	--	--	--	--
3	15.0	-.143	-.129	-.112	-.089	-.152	-.002	88	25.0	-.146	-.160	-.163	-.153	-.131	-.077
4	27.5	-.189	-.191	-.182	-.157	-.224	--	89	41.0	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--	90	52.5	--	--	--	--	--	--
6	50.0	--	--	--	--	--	--	91	62.5	--	--	--	--	--	--
7	59.0	--	--	--	--	--	--	92	72.5	--	--	--	--	--	--
8	67.5	--	--	--	--	--	--	93	84.0	--	--	--	--	--	--
9	77.5	--	--	--	--	--	--	94	94.0	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--								
11	96.0	--	--	--	--	--	--								
B12	2.0	.048	.099	.126	.161	.096	.231	95	3.0	-.131	-.140	-.139	-.132	-.111	-.059
13	6.0	-.104	-.080	-.058	-.026	-.091	.055	96	10.0	-.134	-.143	-.142	-.132	-.118	-.061
14	15.0	-.196	-.198	-.183	-.157	-.218	-.073	97	25.0	-.191	-.229	-.243	-.241	-.219	-.161
15	27.5	-.267	-.299	-.294	-.267	-.330	-.177	98	41.0	-.210	-.273	-.311	-.333	-.323	-.257
16	40.0	-.316	-.390	-.410	-.392	-.451	-.289	99	52.5	-.186	-.253	--	-.357	-.370	-.308
17	50.0	-.320	-.415	-.471	-.455	-.520	-.363	100	62.5	-.136	-.186	-.220	-.292	-.407	-.364
18	59.0	-.290	-.385	-.484	-.516	-.585	-.424	101	72.5	-.060	-.093	-.113	-.137	-.286	-.317
19	67.5	-.230	-.319	-.411	-.489	-.572	-.406	102	88.3	.027	.011	-.004	-.027	-.130	-.231
20	77.5	-.153	-.214	-.271	-.433	-.573	-.413	103	94.5	--	--	--	--	--	--
21	88.0	-.059	-.085	-.106	-.167	-.441	-.384								
22	95.3	--	--	--	--	--	--								
C23	2.0	.034	.081	.112	.148	.084	.219	104	3.0	-.130	-.157	-.165	-.164	-.148	-.091
24	6.0	-.124	-.113	-.091	-.058	-.121	.030	105	10.0	-.167	-.203	-.219	-.218	-.195	-.130
25	15.0	-.227	-.252	-.241	-.212	-.274	-.124	106	25.0	-.206	-.307	-.291	-.301	-.281	-.232
26	27.5	-.234	-.353	-.361	-.337	-.398	-.241	107	41.0	-.223	-.294	-.350	-.412	-.413	-.347
27	40.0	-.344	-.448	-.491	-.474	-.533	-.367	108	52.5	-.196	-.260	-.326	-.413	-.484	-.425
28	50.0	-.333	-.444	-.543	-.550	-.604	-.463	109	62.5	-.134	-.171	-.194	-.222	-.490	-.466
29	59.0	-.296	-.395	-.516	-.605	-.701	-.534	110	72.5	-.036	-.050	-.056	-.054	-.191	-.377
30	67.5	--	--	--	--	--	--	111	85.1	.074	.084	.086	.093	.051	-.211
31	77.5	-.091	-.117	-.124	-.320	-.634	-.513	112	94.6	.160	.179	.188	.197	.184	.056
32	88.0	.011	.014	.110	.020	-.334	-.387								
33	95.3	.093	.106	.111	.119	-.049	-.083								
D34	2.0	-.030	-.005	.027	.098	.001	.154	113	3.0	-.130	-.166	-.172	-.204	-.196	-.141
35	15.0	-.236	-.279	-.280	-.251	-.314	-.162	114	10.0	-.149	-.188	-.211	-.223	-.208	-.152
36	27.5	-.294	-.385	-.411	-.381	-.444	-.284	115	25.0	-.209	-.271	-.313	-.347	-.337	-.284
37	40.0	-.344	-.465	-.563	-.540	-.596	-.426	116	41.0	--	--	--	--	--	--
38	50.0	-.330	-.436	-.551	-.601	-.637	-.532	117	52.5	-.189	-.238	-.273	-.347	-.468	-.498
39	59.0	-.269	-.361	-.464	-.532	-.660	-.606	118	62.5	-.137	-.190	-.229	-.208	-.443	-.510
40	67.5	-.241	-.356	-.422	-.524	-.644	-.605	119	72.5	.008	.015	.011	.008	-.188	-.532
41	77.5	-.047	-.047	-.040	-.222	-.464	-.563	120	87.4	.108	.125	.127	.137	.102	-.136
42	87.5	.026	.036	.051	.014	-.289	-.433	121	94.2	.144	.163	.171	.172	.137	.096
43	94.2	.098	.118	.127	.106	-.069	-.188								
E44	2.0	.080	-.021	.086	.118	.164	.190	122	3.0	-.151	-.148	-.159	-.173	-.180	-.161
45	6.0	-.104	-.138	-.142	-.117	-.075	-.046	123	10.0	-.193	-.242	-.282	-.265	-.255	-.214
46	15.0	-.203	-.269	-.296	-.282	-.244	-.211	124	25.0	-.223	-.272	-.306	-.340	-.367	-.344
47	27.5	-.259	-.355	-.414	-.409	-.374	-.338	125	41.0	-.239	-.293	-.329	-.376	-.487	-.455
48	40.0	-.296	-.422	-.532	-.556	-.511	-.471	126	52.5	-.200	-.245	-.279	-.312	-.488	-.526
49	50.0	-.270	-.369	-.472	-.583	-.619	-.594	127	62.5	-.167	-.205	-.236	-.269	-.460	-.580
50	59.0	-.221	-.310	-.391	-.526	-.552	-.671	128	72.5	-.115	-.102	-.068	-.043	-.335	-.524
51	67.5	-.170	-.139	-.107	-.251	-.408	-.694	129	78.0	.004	.005	.001	-.006	-.143	-.490
52	77.5	.013	.012	.024	-.027	-.216	-.635	130	85.3	.073	.080	.078	.077	-.020	-.430
53	88.5	.195	.219	.221	.117	-.089	-.378	131	94.1	.135	.150	.149	.140	.043	.003
54	95.5	.150	.178	.187	.142	-.036	-.166								
F55	2.0	.081	.057	.057	.082	.129	.155	132	3.0	-.194	-.178	-.180	-.197	-.216	-.177
56	6.0	-.078	-.123	-.135	-.120	-.079	-.049	133	10.0	-.200	-.217	-.233	-.253	-.252	-.225
57	15.0	-.184	-.260	-.302	-.299	-.262	-.229	134	25.0	-.243	-.286	-.310	-.335	-.376	-.364
58	27.5	-.231	-.329	-.404	-.423	-.388	-.352	135	41.0	-.269	-.326	-.363	-.392	-.406	-.466
59	49.0	-.256	-.362	-.457	-.564	-.532	-.493	136	52.5	-.262	-.316	-.350	-.376	-.586	-.573
60	50.0	-.214	-.294	-.375	-.510	-.573	-.611	137	62.5	-.220	-.266	-.291	-.297	-.531	-.615
61	59.0	-.157	-.245	-.208	-.493	-.571	-.688	138	72.5	-.194	-.220	-.230	-.215	-.362	-.601
62	67.5	-.005	-.001	.021	.024	-.386	-.686	139	83.4	-.065	-.069	-.070	-.076	-.114	-.348
63	86.5	--	--	--	--	--	--	140	94.0	-.009	-.004	.001	.001	-.051	-.371
64	94.6	--	--	--	--	--	--								
G65	2.0	.160	.118	.096	.089	.129	.161	141	3.0	-.240	-.203	-.192	-.165	-.190	-.184
66	6.0	-.032	-.084	-.113	-.135	-.103	-.070	142	10.0	-.254	-.279	-.282	-.279	-.233	-.267
67	15.0	-.128	-.196	-.237	-.289	-.266	-.230	143	25.0	-.280	-.338	-.365	-.373	-.429	-.420
68	27.5	-.177	-.250	-.298	-.406	-.397	-.365	144	41.0	-.306	-.388	-.452	-.477	-.532	-.515
69	40.0	-.201	-.276	-.320	-.386	-.476	-.499	145	52.5	-.290	-.361	-.416	-.496	-.534	-.591
70	50.0	-.170	-.227	-.260	-.325	-.438	-.620	146	62.5	-.240	-.292	-.353	-.460	-.482	-.515
71	59.0	-.095	-.143	-.160	-.230	-.424	-.665	147	72.5	-.214	-.265	-.325	-.407	-.463	-.556
72	67.5	.034	.043	.048	.085	-.247	-.623	148	84.0	-.197	-.205	-.172	-.137	-.181	-.466
73	77.5	.224	.245	.252	.250	.005	-.606	149	92.0	-.030	-.019	-.003	-.013	-.087	-.455
74	87.2	--	--	--	--	--	--								
75	98.8	.149	.171	.171	.192	.133	-.074								
H76	2.0	.143	.120	.104	.077	.096	.120	150	3.0	-.267	-.278	-.279	-.244	-.258	-.260
77	6.0	-.059	-.106	-.132	-.169	-.163	-.130	151	10.0	-.244	-.297	-.321	-.296	-.287	-.276
78	15.0	-.140	-.209	-.250	-.295	-.307	-.275	152	25.0	-.264	-.345	-.424	-.486	-.477	-.461
79	27.5	-.193	-.263	-.310	-.393	-.456	-.428	153	41.0	-.266	-.334	-.386	-.504	-.563	-.612
80	40.0	-.208	-.266	-.294	-.328	-.394	-.559	154	52.5	-.227	-.270	-.313	-.448	-.517	-.635
81	50.0	-.171	-.209	-.231	-.281	-.393	-.615	155	62.5	-.173	-.223	-.267	-.251	-.456	-.652
82	59.0	-.121	-.177	-.210	-.257	-.304	-.584	156	72.5	-.131	-.109	-.091	-.027	-.189	-.641
83	67.5	-.114	-.082	-.048	.089	-.128	-.516	157	84.9	.077	.103	.110	.146	.093	-.373
84	88.3	.158	.184	.198	.213	.131	-.429								
85	94.2	.140	.163	.274	.189	.153	-.343								

NACA

[redacted]

TABLE 29

[$\Lambda = 30^\circ$, $\delta_{a_n} = -10.0^\circ$, $\alpha = 2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-0.270	-0.189	-0.135	-0.082	-0.030	0.025
2	6.0	-.290	-.255	-.218	-.175	-.130	-.073
3	15.0	-.283	-.275	-.250	-.213	-.171	-.112
4	27.5	-.290	-.304	-.289	-.253	-.212	-.159
5	40.0	--	--	--	--	--	--
6	50.0	--	--	--	--	--	--
7	59.0	--	--	--	--	--	--
8	67.5	--	--	--	--	--	--
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.327	-.249	-.186	-.124	-.066	-.008
13	6.0	-.346	-.324	-.282	-.235	-.184	-.121
14	15.0	-.350	-.361	-.339	-.291	-.248	-.186
15	27.5	-.376	-.429	-.412	-.372	-.327	-.266
16	40.0	-.400	-.508	-.520	-.463	-.420	-.356
17	50.0	-.386	-.522	-.575	-.541	-.498	-.430
18	59.0	-.347	-.483	-.619	-.600	-.550	-.481
19	67.5	-.269	-.385	-.562	-.580	-.542	-.468
20	77.5	-.177	-.243	-.346	-.560	-.534	-.471
21	88.0	-.071	-.095	-.170	-.245	-.428	-.429
22	95.3	--	--	--	--	--	--
C23	2.0	-.374	-.300	-.225	-.151	-.086	-.024
24	6.0	-.381	-.376	-.330	-.273	-.217	-.151
25	15.0	-.393	-.437	-.412	-.362	-.311	-.250
26	27.5	-.410	-.506	-.497	-.453	-.407	-.345
27	40.0	-.433	-.583	-.619	-.566	-.508	-.444
28	50.0	-.400	-.544	-.676	-.630	-.589	-.514
29	59.0	-.356	-.502	-.663	-.667	-.677	-.609
30	67.5	--	--	--	--	--	--
31	77.5	-.120	-.140	-.187	-.583	-.628	-.594
32	88.0	-.002	.006	.005	-.070	-.345	-.417
33	95.3	.086	.103	.104	.284	-.045	-.111
D34	2.0	-.464	-.412	-.325	-.234	-.160	-.075
35	15.0	-.411	-.494	-.469	-.412	-.356	-.293
36	27.5	-.417	-.555	-.568	-.514	-.627	-.395
37	40.0	-.437	-.604	-.691	-.636	-.579	-.507
38	50.0	-.401	-.548	-.644	-.611	-.644	-.603
39	59.0	-.333	-.476	-.608	-.573	-.583	-.640
40	67.5	-.308	-.310	-.537	-.531	-.591	-.633
41	77.5	-.103	-.090	-.150	-.357	-.480	-.619
42	87.5	.011	.089	.027	-.189	-.334	-.515
43	94.2	.091	.021	.106	-.160	-.252	-.276
E44	2.0	-.382	-.409	-.335	-.237	-.189	-.054
45	6.0	-.386	-.476	-.443	-.373	-.293	-.226
46	15.0	-.379	-.511	-.505	-.453	-.388	-.389
47	27.5	-.379	-.540	-.595	-.559	-.508	-.451
48	40.0	-.384	-.591	-.689	-.623	-.613	-.554
49	50.0	-.341	-.483	-.634	-.598	-.710	-.698
50	59.0	-.279	-.407	-.524	-.469	-.679	-.730
51	67.5	-.145	-.132	-.195	-.343	-.638	-.788
52	77.5	-.029	-.011	-.004	-.206	-.437	-.666
53	88.5	.172	.200	.146	-.076	-.026	-.441
54	95.5	.145	.173	.154	-.025	-.024	-.207
F55	2.0	-.376	-.445	-.385	-.282	-.164	-.083
56	6.0	-.363	-.476	-.460	-.387	-.300	-.229
57	15.0	-.361	-.515	-.530	-.478	-.409	-.349
58	27.5	-.352	-.516	-.617	-.586	-.530	-.470
59	49.0	-.342	-.483	-.631	-.611	-.626	-.580
60	50.0	-.283	-.416	-.592	-.582	-.608	-.676
61	59.0	-.207	-.218	-.326	-.543	-.616	-.722
62	67.5	-.030	-.022	.026	-.185	-.500	-.711
63	86.5	--	--	--	--	--	--
64	94.5	--	--	--	--	--	--
G65	2.0	-.287	-.397	-.384	-.283	-.165	-.077
66	6.0	-.316	-.455	-.504	-.434	-.345	-.256
67	15.0	-.305	-.441	-.526	-.481	-.421	-.356
68	27.5	-.295	-.418	-.566	-.578	-.547	-.483
69	40.0	-.285	-.385	-.472	-.507	-.584	-.597
70	50.0	-.236	-.320	-.397	-.504	-.566	-.683
71	59.0	-.135	-.151	-.102	-.238	-.532	-.694
72	67.5	.005	.018	.033	-.059	-.408	-.661
73	77.5	.205	.228	.228	.142	-.187	-.621
74	87.2	--	--	--	--	--	--
75	96.8	.158	.183	.191	.200	.115	-.173
H76	2.0	-.237	-.339	-.369	-.305	-.210	-.111
77	6.0	-.302	-.439	-.519	-.484	-.408	-.317
78	15.0	-.276	-.396	-.491	-.537	-.484	-.410
79	27.5	-.279	-.374	-.433	-.533	-.496	-.525
80	40.0	-.267	-.338	-.376	-.493	-.449	-.553
81	50.0	-.204	-.284	-.329	-.411	-.339	-.560
82	59.0	-.178	-.258	-.149	-.034	-.246	-.543
83	67.5	.040	.064	.058	.069	-.179	-.522
84	88.3	.153	.185	.200	.204	-.022	-.392
85	94.2	.143	.168	.182	.194	.012	-.327

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.157	0.167	0.166	0.171	0.185	0.218
87	10.0	--	--	--	--	--	--
88	25.0	-.053	-.053	-.054	-.049	-.034	.007
89	41.0	--	--	--	--	--	--
90	52.5	--	--	--	--	--	--
91	62.5	--	--	--	--	--	--
92	72.5	--	--	--	--	--	--
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.148	.145	.134	.133	.141	.172
96	10.0	.007	.108	-.002	.002	.014	.054
97	25.0	-.091	-.110	-.122	-.124	-.098	-.073
98	41.0	-.139	-.176	-.201	-.224	-.228	-.186
99	52.5	-.130	-.175	-.209	-.259	-.278	-.237
100	62.5	-.093	-.128	-.157	-.193	-.312	-.294
101	72.5	-.026	-.048	-.066	-.094	-.203	-.247
102	86.3	.050	.038	.023	-.003	-.078	-.161
103	94.5	--	--	--	--	--	--
104	3.0	.163	-.034	.005	.114	.117	.144
105	10.0	.011	-.005	-.021	-.028	-.023	.014
106	25.0	-.099	-.131	-.152	-.170	-.171	-.131
107	41.0	-.149	-.194	-.230	-.276	-.310	-.267
108	52.5	-.140	-.182	-.213	-.261	-.382	-.348
109	62.5	-.091	-.122	-.146	-.185	-.360	-.395
110	72.5	-.009	-.018	-.028	-.048	-.135	-.309
111	85.1	.091	.105	.105	.096	.063	-.043
112	94.6	.171	.194	.199	.196	.157	.091
113	3.0	.174	.156	.126	.097	.084	.105
114	10.0	.030	.011	-.011	-.031	-.039	-.006
115	25.0	-.097	-.132	-.159	-.194	-.219	-.179
116	41.0	--	--	--	--	--	--
117	52.5	-.130	-.163	-.189	-.233	-.369	-.419
118	62.5	-.096	-.110	-.134	-.181	-.328	-.425
119	72.5	-.026	-.022	.014	-.020	-.089	-.381
120	87.4	.127	.147	.146	.132	.106	.032
121	94.2	.154	.179	.176	.136	.078	.068
122	3.0	.170	.185	.161	.133	.089	.084
123	10.0	-.005	-.023	-.049	-.058	-.095	-.097
124	25.0	-.107	-.127	-.149	-.180	-.234	-.221
125	41.0	-.157	-.189	-.214	-.258	-.383	-.375
126	52.5	-.138	-.165	-.185	-.228	-.358	-.443
127	62.5	-.117	-.135	-.152	-.197	-.316	-.451
128	72.5	-.071	-.099	-.122	-.154	-.210	-.414
129	78.0	-.036	-.001	.016	-.050	-.036	-.372
130	85.3	.102	.115	.112	.073	.030	-.137
131	94.1	.143	.163	.157	.090	.053	.027
132	3.0	.145	.173	.154	.121	.067	.055
133	10.0	-.005	.002	-.013	-.038	-.087	-.088
134	25.0	-.124	-.138	-.156	-.184	-.242	-.232
135	41.0	-.184	-.214	-.239	-.279	-.379	-.384
136	52.5	-.197	-.232	-.256	-.304	-.422	-.495
137	62.5	-.177	-.201	-.220	-.263	-.365	-.547
138	72.5	-.160	-.178	-.190	-.221	-.228	-.501
139	83.4	-.068	-.064	-.066	-.119	-.288	-.376
140	94.0	-.002	.008	.009	-.033	-.150	-.294
141	3.0	.116	.170	.166	.140	.087	.061
142	10.0	-.051	-.036	-.045	-.068	-.112	-.123
143	25.0	-.155	-.177	-.196	-.222	-.265	-.280
144	41.0	-.221	-.271	-.308	-.367	-.416	-.422
145	52.5	-.226	-.277	-.314	-.387	-.519	-.531
146	62.5	-.203	-.245	-.285	-.363	-.470	-.517
147	72.5	-.178	-.205	-.227	-.281	-.426	-.486
148	84.0	-.178	-.195	-.202	-.222	-.266	-.376
149	92.0	-.022	-.011	-.006	-.029	-.181	-.363
150	3.0	.064	.103	.105	.084	.043	.012
151	10.0	-.074	-.082	-.093	-.115	-.131	-.133
152	25.0	-.170	-.219	-.261	-.319	-.362	-.367
153	41.0	-.204	-.263	-.307	-.412	-.517	-.525
154	52.5	-.184	-.226	-.252	-.328	-.580	-.620
155	62.5	-.135	-.165	-.194	-.280	-.523	-.603
156	72.5	-.112	-.115	-.107	-.065	-.449	-.585
157	84.9	.080	.110	.121	.138	.020	-.311

NACA

[redacted]

TABLE 30

[$\Lambda = 30^\circ$, $\delta_{a_n} = -10.0^\circ$, $\alpha = 4^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-0.690	-0.611	-0.544	-0.485	-0.364	-0.254
2	6.0	-.543	-.527	-.489	-.420	-.360	-.267
3	15.0	-.423	-.438	-.411	-.359	-.311	-.231
4	27.5	-.385	-.427	-.402	-.357	-.308	-.240
5	40.0	--	--	--	--	--	--
6	50.0	--	--	--	--	--	--
7	59.0	--	--	--	--	--	--
8	67.5	--	--	--	--	--	--
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.800	-.740	-.644	-.522	-.426	-.303
13	6.0	-.622	-.635	-.507	-.524	-.457	-.345
14	15.0	-.509	-.546	-.523	-.476	-.407	-.316
16	27.5	-.479	-.569	-.544	-.493	-.442	-.361
16	40.0	-.476	-.646	-.616	-.565	-.518	-.438
17	50.0	-.443	-.666	-.644	-.642	-.586	-.498
18	59.0	-.380	-.617	-.733	-.680	-.624	-.540
19	67.5	-.296	-.430	-.696	-.663	-.616	-.529
20	77.5	-.197	-.264	-.466	-.648	-.607	-.528
21	88.0	-.089	-.120	-.217	-.336	-.523	-.486
22	95.3	--	--	--	--	--	--
C23	2.0	-.890	-.811	-.676	-.539	-.435	-.311
24	6.0	-.679	-.735	-.695	-.608	-.529	-.397
25	15.0	-.560	-.643	-.596	-.527	-.466	-.375
26	27.5	-.517	-.676	-.653	-.596	-.538	-.452
27	40.0	-.510	-.757	-.735	-.676	-.615	-.523
28	50.0	-.466	-.724	-.763	-.765	-.700	-.587
29	59.0	-.389	-.676	-.767	-.717	-.751	-.675
30	67.5	--	--	--	--	--	--
31	77.5	-.153	-.159	-.360	-.680	-.696	-.664
32	88.0	-.023	-.004	-.057	-.293	-.539	-.448
33	95.3	.064	.047	.058	-.024	-.271	-.177
D34	2.0	-1.012	-.927	-.754	-.595	-.478	-.333
35	15.0	-.582	-.739	-.687	-.601	-.534	-.433
36	27.5	-.524	-.763	-.750	-.681	-.617	-.522
37	40.0	-.518	-.833	-.800	-.726	-.697	-.603
38	50.0	-.456	-.767	-.748	-.688	-.713	-.680
39	59.0	-.363	-.579	-.671	-.566	-.697	-.691
40	67.5	-.257	-.216	-.521	-.514	-.671	-.676
41	77.5	-.134	-.109	-.313	-.423	-.574	-.676
42	87.5	-.003	.025	-.139	-.302	-.470	-.571
43	94.2	.066	.159	-.042	-.246	-.402	-.402
E44	2.0	-1.007	-1.024	-.787	-.605	-.465	-.345
45	6.0	-.728	-1.035	-.875	-.733	-.616	-.507
46	15.0	-.555	-.822	-.782	-.694	-.597	-.506
47	27.5	-.495	-.766	-.775	-.714	-.642	-.575
48	40.0	-.468	-.742	-.763	-.799	-.735	-.670
49	50.0	-.393	-.447	-.740	-.762	-.750	-.757
50	59.0	-.302	-.315	-.547	-.741	-.732	-.813
51	67.5	-.186	-.178	-.330	-.535	-.679	-.807
52	77.5	-.057	-.026	-.129	-.278	-.549	-.754
53	88.5	.093	.145	.142	.003	-.154	-.606
54	95.5	.113	.148	.105	-.052	-.145	-.315
F55	2.0	-.987	-1.049	-.816	-.644	-.505	-.378
56	6.0	-.726	-1.068	-.895	-.747	-.621	-.503
57	15.0	-.535	-.857	-.840	-.728	-.623	-.522
58	27.5	-.472	-.759	-.798	-.739	-.666	-.590
59	40.0	-.426	-.567	-.750	-.702	-.722	-.689
60	50.0	-.340	-.369	-.732	-.708	-.708	-.774
61	59.0	-.216	-.222	-.437	-.596	-.707	-.818
62	67.5	-.069	-.042	-.097	-.375	-.547	-.772
63	86.5	--	--	--	--	--	--
64	94.6	--	--	--	--	--	--
G65	2.0	-.895	-1.028	-.808	-.638	-.480	-.350
66	6.0	-.668	-1.072	-.913	-.762	-.614	-.494
67	15.0	-.405	-.869	-.888	-.771	-.640	-.537
68	27.5	-.410	-.449	-.788	-.720	-.626	-.608
69	40.0	-.365	-.436	-.763	-.702	-.594	-.673
70	50.0	-.282	-.322	-.370	-.600	-.521	-.722
71	59.0	-.160	-.164	-.146	-.438	-.422	-.716
72	67.5	-.023	-.006	-.024	-.318	-.360	-.698
73	77.5	.147	.167	.117	.015	-.258	-.666
74	87.2	--	--	--	--	--	--
75	96.8	.160	.125	.176	.112	.003	-.220
H76	2.0	-.748	-.989	-.819	-.650	-.495	-.367
77	6.0	-.592	-.876	-.908	-.771	-.631	-.518
78	15.0	-.429	-.757	-.825	-.800	-.705	-.594
79	27.5	-.373	-.371	-.759	-.688	-.624	-.632
80	40.0	-.333	-.382	-.331	-.496	-.514	-.659
81	50.0	-.266	-.286	-.157	-.225	-.333	-.670
82	59.0	-.149	-.142	-.069	-.168	-.267	-.617
83	67.5	-.014	-.003	.023	-.107	-.209	-.552
84	88.3	.151	.181	.171	.018	-.121	-.521
85	94.2	.146	.172	.174	.049	-.085	-.475

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.367	0.378	0.380	0.377	0.382	0.391
87	10.0	--	--	--	--	--	--
88	25.0	.040	.050	.055	--	.132	.089
89	41.0	--	--	--	--	--	--
90	52.5	--	--	--	--	--	--
91	62.5	--	--	--	--	--	--
92	72.5	--	--	--	--	--	--
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.364	.360	.224	.345	.346	.350
96	10.0	.150	.153	.020	.146	.154	.171
97	25.0	.004	.020	-.004	-.013	-.008	.015
98	41.0	-.069	-.087	-.102	-.126	-.131	-.107
99	52.5	-.074	-.102	-.126	-.167	-.199	-.166
100	62.5	-.053	-.075	-.096	-.132	-.183	-.221
101	72.5	.004	-.010	-.029	-.062	-.107	-.160
102	86.3	.073	.068	.050	.013	-.020	-.063
103	94.5	--	--	--	--	--	--
104	3.0	.383	.366	.353	.335	.327	.326
105	10.0	.161	.154	.144	.130	.129	.142
106	25.0	.001	-.014	-.026	-.049	-.053	-.036
107	41.0	-.077	-.106	-.131	-.165	-.200	-.183
108	52.5	-.086	-.112	-.140	-.191	-.250	-.275
109	62.5	-.050	-.068	-.092	-.140	-.201	-.302
110	72.5	.018	.015	-.001	-.040	-.083	-.162
111	85.1	.101	.117	.110	.092	.051	.037
112	94.6	.167	.195	.192	.170	.132	.115
113	3.0	.401	.378	.355	.323	.305	.294
114	10.0	.181	.172	.156	.130	.120	.123
115	25.0	.067	-.012	-.032	-.068	-.088	-.082
116	41.0	--	--	--	--	--	--
117	52.5	-.077	-.099	-.132	-.190	-.257	-.335
118	62.5	-.040	-.051	-.084	-.139	-.194	-.301
119	72.5	.023	.040	.016	-.035	-.068	-.108
120	87.4	.131	.150	.130	.098	.057	.065
121	94.2	.147	.181	.133	.095	.015	.047
122	3.0	.407	.403	.372	.331	.304	.273
123	10.0	.163	.175	.140	.110	.079	.065
124	25.0	.001	-.006	-.119	-.070	-.097	-.120
125	41.0	-.080	-.094	-.122	-.178	-.227	-.285
126	52.5	-.083	-.093	-.119	-.179	-.216	-.330
127	62.5	-.077	-.082	-.109	-.179	-.231	-.287
128	72.5	-.026	-.032	-.058	-.122	-.168	-.243
129	78.0	-.003	-.002	-.025	-.090	-.136	-.025
130	85.3	.083	.135	.116	.048	.007	.014
131	94.1	.143	.170	.148	.070	.018	-.005
132	3.0	.396	.399	.367	.322	.291	.250
133	10.0	.161	.170	.145	.109	.085	.054
134	25.0	-.014	-.014	-.037	-.077	-.101	-.132
135	41.0	-.105	-.117	-.145	-.198	-.231	-.289
136	52.5	-.136	-.152	-.181	-.247	-.301	-.383
137	62.5	-.130	-.137	-.164	-.224	-.275	-.338
138	72.5	-.127	-.130	-.150	-.196	-.214	-.282
139	83.4	-.083	-.063	-.091	-.211	-.325	-.401
140	94.0	-.004	.021	-.010	-.100	-.219	-.354
141	3.0	.382	.406	.376	.328	.301	.253
142	10.0	.126	.143	.117	.077	.055	.020
143	25.0	-.040	-.044	-.072	-.116	-.133	-.157
144	41.0	-.140	-.166	-.205	-.277	-.310	-.328
145	52.5	-.165	-.195	-.235	-.335	-.406	-.440
146	62.5	-.149	-.156	-.196	-.273	-.375	-.443
147	72.5	-.145	-.161	-.190	-.276	-.344	-.407
148	84.0	-.160	-.160	-.189	-.303	-.647	--
149	92.0	-.020	.006	-.012	-.112	-.295	-.559
150	3.0	.320	.348	.318	.267	.245	.207
151	10.0	.078	.084	.055	.012	.001	-.011
152	25.0	-.080	-.106	-.155	-.224	-.241	-.251
153	41.0	-.146	-.189	-.245	-.379	-.429	-.427
154	52.5	-.143	-.177	-.220	-.351	-.539	-.548
155	62.5	-.105	-.122	-.156	-.294	-.491	-.587
156	72.5	-.093	-.094	-.116	-.155	-.445	-.556
157	84.9	.087	.129	.115	.045	-.079	-.507

NACA

[redacted]

TABLE 31

[$\Lambda = 30^\circ$, $\delta_{a_n} = -10.0^\circ$, $\alpha = 7^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-1.890	-1.354	-1.120	-0.957	-0.812	-0.677
2	6.0	-.882	-1.225	-.997	-.858	-.745	-.628
3	15.0	-.646	-.683	-.628	-.569	-.501	-.411
4	27.5	-.534	-.615	-.563	-.512	-.452	-.374
5	40.0	--	--	--	--	--	--
6	50.0	--	--	--	--	--	--
7	59.0	--	--	--	--	--	--
8	67.5	--	--	--	--	--	--
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-1.951	-1.418	-1.164	-.993	-.838	-.688
13	6.0	-1.052	-1.287	-1.121	-.991	-.861	-.789
14	15.0	-.737	-.898	-1.045	-.879	-.736	-.691
15	27.5	-.629	-.746	-.699	-.653	-.584	-.504
16	40.0	-.581	-.798	-.758	-.697	-.625	-.550
17	50.0	-.517	-.856	-.810	-.744	-.672	-.581
18	59.0	-.434	-.835	-.845	-.783	-.714	-.624
19	67.5	-.339	-.486	-.830	-.773	-.707	-.624
20	77.5	-.232	-.300	-.582	-.763	-.699	-.614
21	88.0	-.111	-.159	-.345	-.515	-.639	-.573
22	95.3	--	--	--	--	--	--
C23	2.0	-2.065	-1.433	-1.166	-.986	-.819	-.653
24	6.0	1.240	-1.396	-1.172	-1.018	-.879	-.740
25	15.0	-.801	-1.231	-1.074	-.963	-.847	-.725
26	27.5	-.670	-.805	-1.007	-.885	-.776	-.661
27	40.0	-.602	-.917	-.831	-.744	-.711	-.641
28	50.0	-.531	-.968	-.906	-.838	-.763	-.670
29	59.0	-.418	-.568	-1.004	-.924	-.840	-.746
30	67.5	--	--	--	--	--	--
31	77.5	-.167	-.187	-.365	-.540	-.842	-.750
32	88.0	-.050	-.071	-.271	-.353	-.442	-.418
33	95.3	.003	-.011	-.131	-.218	-.308	-.247
D34	2.0	-1.916	-1.472	-1.195	-1.006	-.834	-.663
35	15.0	-.878	-1.339	-1.142	-1.008	-.879	-.749
36	27.5	-.663	-1.248	-1.118	-1.010	-.905	-.781
37	40.0	-.596	-1.128	-1.064	-.954	-.814	-.815
38	50.0	-.498	-.869	-1.030	-.945	-.889	-.802
39	59.0	-.396	-.362	-.511	-.797	-.819	-.788
40	67.5	-.266	-.197	-.303	-.597	-.856	-.807
41	77.5	-.137	-.099	-.246	-.370	-.774	-.790
42	87.5	-.027	-.030	-.226	-.309	-.501	-.683
43	94.2	.020	.000	-.216	-.300	-.385	-.432
E44	2.0	-1.739	-1.509	-1.238	-1.032	-.874	-.701
45	6.0	-1.411	-1.444	-1.212	-1.047	-.907	-.761
46	15.0	-.909	-1.331	-1.140	-1.004	-.896	-.776
47	27.5	-.628	-1.241	-1.058	-.932	-.905	-.820
48	40.0	-.530	-.808	-.793	-.811	-.870	-.874
49	50.0	-.424	-.554	-.603	-.602	-.823	-.912
50	59.0	-.312	-.384	-.530	-.528	-.729	-.877
51	67.5	-.194	-.236	-.458	-.482	-.648	-.856
52	77.5	-.081	-.094	-.366	-.432	-.585	-.841
53	88.5	.041	.071	-.232	-.368	-.515	-.759
54	95.5	.059	.093	-.172	-.342	-.475	-.655
F55	2.0	-1.762	-1.513	-1.245	-1.030	-.864	-.682
56	6.0	-1.553	-1.439	-1.197	-1.047	-.907	-.761
57	15.0	-.872	-1.302	-1.082	-.990	-.905	-.777
58	27.5	-.592	-1.048	-.925	-.927	-.926	-.826
59	49.0	-.486	-.659	-.619	-.784	-.901	-.881
60	50.0	-.363	-.484	-.509	-.620	-.878	-.923
61	59.0	-.237	-.337	-.433	-.468	-.831	-.955
62	67.5	-.102	-.218	-.376	-.400	-.603	-.917
63	86.5	--	--	--	--	--	--
64	94.6	--	--	--	--	--	--
G65	2.0	-1.640	-1.360	-1.244	-1.029	-.840	-.654
66	6.0	-1.327	-1.281	-1.214	-1.050	-.887	-.754
67	15.0	-.787	-1.095	-1.082	-.972	-.843	-.774
68	27.5	-.519	-.737	-.978	-.898	-.782	-.824
69	40.0	-.394	-.532	-.647	-.790	-.689	-.880
70	50.0	-.277	-.396	-.486	-.656	-.568	-.927
71	59.0	-.150	-.291	-.307	-.509	-.510	-.955
72	67.5	-.046	-.211	-.234	-.348	-.489	-.916
73	77.5	.040	-.118	-.201	-.252	-.462	-.907
74	87.2	--	--	--	--	--	--
75	96.8	.137	.039	-.045	-.059	-.232	-.548
H76	2.0	-1.641	-.929	-.886	-.820	-.806	-.665
77	6.0	-1.005	-.887	-.850	-.810	-.791	-.751
78	15.0	-.589	-.697	-.691	-.662	-.754	-.802
79	27.5	-.457	-.520	-.544	-.501	-.617	-.837
80	40.0	-.358	-.395	-.449	-.428	-.492	-.912
81	50.0	-.252	-.318	-.378	-.385	-.442	-.954
82	59.0	-.138	-.258	-.316	-.345	-.412	-.952
83	67.5	-.036	-.196	-.254	-.297	-.380	-.889
84	88.3	.064	-.100	-.161	-.253	-.376	-.837
85	94.2	.099	-.064	-.118	-.222	-.359	-.775

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.585	0.581	0.574	0.572	0.574	0.584
87	10.0	--	--	--	--	--	--
88	25.0	.167	.178	.173	.175	.183	.205
89	41.0	--	--	--	--	--	--
90	52.5	--	--	--	--	--	--
91	62.5	--	--	--	--	--	--
92	72.5	--	--	--	--	--	--
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.576	.554	.540	.533	.531	.537
96	10.0	.326	.321	.308	.306	.309	.323
97	25.0	.132	.127	.116	.111	.115	.135
98	41.0	.028	.015	-.003	-.016	-.019	.000
99	52.5	.006	-.015	-.042	-.066	-.080	-.070
100	62.5	.007	-.013	-.041	-.065	-.083	-.078
101	72.5	.051	.039	.009	-.017	-.035	-.030
102	86.3	.108	.105	.077	.043	.029	.042
103	94.5	--	--	--	--	--	--
104	3.0	.591	.553	.532	.519	.511	.512
105	10.0	.337	.316	.298	.287	.284	.310
106	25.0	.132	.115	.094	.082	.078	.091
107	41.0	.021	-.005	-.035	-.059	-.071	-.062
108	52.5	-.010	-.036	-.072	-.104	-.128	-.129
109	62.5	.007	-.015	-.053	-.087	-.112	-.111
110	72.5	.054	.045	.010	-.024	-.044	-.031
111	85.1	.117	.120	.086	.052	.038	.067
112	94.6	.159	.165	.122	.076	.062	.094
113	3.0	.599	.555	.526	.508	.492	.484
114	10.0	.353	.326	.301	.285	.275	.276
115	25.0	.137	.112	.083	.063	.051	.055
116	41.0	--	--	--	--	--	--
117	52.5	-.007	-.036	-.085	-.122	-.155	-.160
118	62.5	.007	-.013	-.064	-.102	-.132	-.127
119	72.5	.053	.054	.004	-.029	-.050	-.028
120	87.4	.135	.141	.082	.053	.028	.087
121	94.2	.132	.131	.089	.008	-.002	.035
122	3.0	.604	.570	.538	.510	.491	.446
123	10.0	.315	.308	.285	.247	.225	.199
124	25.0	.130	.116	.083	.055	.039	.007
125	41.0	.017	-.003	-.046	-.081	-.105	-.145
126	52.5	-.010	-.027	-.076	-.116	-.138	-.152
127	62.5	-.028	-.045	-.103	-.153	-.183	-.211
128	72.5	.013	.006	-.051	-.098	-.118	-.141
129	78.0	.036	.045	-.019	-.074	-.089	-.103
130	85.3	.094	.108	.039	-.011	-.007	.010
131	94.1	.126	.146	.048	-.033	-.023	.003
132	3.0	.603	.564	.528	.499	.477	.427
133	10.0	.340	.319	.285	.250	.243	.203
134	25.0	.117	.104	.069	.043	.029	-.002
135	41.0	-.006	-.027	-.072	-.106	-.125	-.149
136	52.5	-.061	-.085	-.139	-.178	-.203	-.242
137	62.5	-.076	-.099	-.157	-.190	-.204	-.244
138	72.5	-.092	-.114	-.178	-.186	-.169	-.167
139	83.4	-.086	-.132	-.276	-.398	-.428	-.437
140	94.0	-.020	-.065	-.212	-.308	-.373	-.399
141	3.0	.587	.556	.518	.489	.468	.417
142	10.0	.307	.284	.245	.218	.203	.161
143	25.0	.092	.060	-.006	-.006	-.015	-.044
144	41.0	-.046	-.093	-.153	-.191	-.200	-.229
145	52.5	-.094	-.152	-.228	-.277	-.292	-.324
146	62.5	-.108	-.155	-.227	-.279	-.318	-.335
147	72.5	-.118	-.192	-.280	-.303	-.291	-.282
148	84.0	-.132	-.233	-.412	--	-.707	-.657
149	92.0	-.042	-.124	-.223	-.338	-.557	-.582
150	3.0	.589	.481	.447	.414	.400	.357
151	10.0	.238	.197	.161	.131	.123	.098
152	25.0	.021	-.039	-.091	-.137	-.145	-.160
153	41.0	-.078	-.164	-.239	-.324	-.338	-.356
154	52.5	-.099	-.190	-.269	-.419	-.448	-.468
155	62.5	-.079	-.165	-.223	-.366	-.456	-.499
156	72.5	-.092	-.190	-.238	-.321	-.405	-.443
157	84.9	.050	-.057	-.097	-.200	-.375	--

NACA

[redacted]

TABLE 32

[$\Lambda = 30^\circ$, $\delta_{a_n} = -5.1^\circ$, $\alpha = -2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
A 1	2.0	0.327	0.362	0.376	0.405		
2	6.0	.110	.146	.162	.180		
3	15.0	-.026	.001	.013	.036		
4	27.5	-.103	-.092	-.083	-.066		
5	40.0	--	--	--	--		
6	50.0	--	--	--	--		
7	59.0	--	--	--	--		
8	67.5	--	--	--	--		
9	77.5	--	--	--	--		
10	87.5	--	--	--	--		
11	96.0	--	--	--	--		
B12	2.0	.168	.344	.356	.367		
13	6.0	.086	.114	.125	-.140		
14	15.0	-.072	-.057	-.051	-.035		
15	27.5	-.174	-.186	-.184	-.167		
16	40.0	-.247	-.289	-.308	-.300		
17	50.0	-.261	-.320	-.364	-.373		
18	59.0	-.243	-.311	-.362	-.407		
19	67.5	-.191	-.252	-.304	-.365		
20	77.5	-.130	-.178	-.209	-.264		
21	88.0	-.042	-.055	-.083	-.122		
22	95.3	--	--	--	--		
C23	2.0	.171	.345	.352	.362		
24	6.0	.078	.098	.103	.117		
25	15.0	-.091	-.092	-.090	-.077		
26	27.5	-.199	-.228	-.237	-.227		
27	40.0	-.271	-.337	-.361	-.377		
28	50.0	-.267	-.319	-.420	-.473		
29	59.0	-.254	-.327	-.389	-.496		
30	67.5	--	--	--	--		
31	77.5	-.090	-.105	-.113	-.156		
32	88.0	.024	.033	.025	.032		
33	95.3	.108	.153	.115	.109		
D34	2.0	.274	.303	.308	.315		
35	15.0	-.093	-.107	-.112	-.106		
36	27.5	-.197	-.240	-.264	-.260		
37	40.0	-.270	-.351	-.411	-.429		
38	50.0	-.274	-.361	-.431	-.531		
39	59.0	-.213	-.235	-.351	-.480		
40	67.5	-.184	-.256	-.303	-.416		
41	77.5	-.067	-.064	-.073	-.036		
42	87.5	.028	.038	.040	.066		
43	94.2	.093	.110	.115	.140		
E44	2.0	.376	.383	.381	.380		
45	6.0	.110	.100	.097	.100		
46	15.0	-.062	-.091	-.104	-.108		
47	27.5	-.164	-.221	-.248	-.265		
48	40.0	-.232	-.314	-.369	-.427		
49	50.0	-.230	-.312	-.364	-.478		
50	59.0	-.193	-.260	-.303	-.412		
51	67.5	-.151	-.210	-.208	-.150		
52	77.5	.007	.008	-.001	.020		
53	88.5	.189	.201	.203	.215		
54	95.5	.142	.166	.177	.194		
F55	2.0	.368	.367	.364	.359		
56	6.0	.123	.116	.111	.106		
57	15.0	-.052	-.083	-.099	-.110		
58	27.5	-.150	-.207	-.238	-.264		
59	49.0	-.212	-.291	-.343	-.422		
60	50.0	-.203	-.275	-.315	-.391		
61	59.0	-.157	-.216	-.253	-.342		
62	67.5	-.069	-.092	-.090	-.046		
63	86.5	--	--	--	--		
64	94.5	--	--	--	--		
G65	2.0	.401	.399	.392	.384		
66	6.0	.143	.136	.128	.121		
67	15.0	-.031	-.052	-.067	-.080		
68	27.5	-.124	-.169	-.196	-.220		
69	40.0	-.283	-.248	-.284	-.317		
70	50.0	-.180	-.239	-.271	-.287		
71	59.0	-.130	-.177	-.206	-.227		
72	67.5	-.056	-.075	-.076	-.114		
73	77.5	.106	.116	.120	.151		
74	87.2	--	--	--	--		
75	96.8	.119	.154	.151	.197		
H76	2.0	.350	.349	.346	.344		
77	6.0	.092	.077	.070	.066		
78	15.0	-.055	-.093	-.112	-.130		
79	27.5	-.150	-.207	-.240	-.287		
80	40.0	-.197	-.260	-.294	-.338		
81	50.0	-.189	-.235	-.253	-.271		
82	59.0	-.130	-.175	-.202	-.236		
83	67.5	-.102	-.151	-.175	-.173		
84	88.3	.119	.138	.152	.178		
85	94.2	.115	.134	.150	.177		

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
86	3.0	-0.408	-0.433	-0.424	-0.383		
87	10.0	--	--	--	--		
88	25.0	-.231	-.268	-.276	-.202		
89	41.0	--	--	--	--		
90	52.5	--	--	--	--		
91	62.5	--	--	--	--		
92	72.5	--	--	--	--		
93	84.0	--	--	--	--		
94	94.0	--	--	--	--		
95	3.0	-.466	-.520	-.520	-.472		
96	10.0	-.298	-.330	-.346	-.312		
97	25.0	-.284	-.351	-.373	-.356		
98	41.0	-.280	-.373	-.446	-.433		
99	52.5	-.241	-.336	-.438	-.481		
100	62.5	-.176	-.240	-.303	-.509		
101	72.5	-.093	-.133	-.160	-.274		
102	86.3	.001	-.013	-.027	-.059		
103	94.5	--	--	--	--		
104	3.0	-.487	-.581	-.603	-.572		
105	10.0	-.350	-.428	-.456	-.420		
106	25.0	-.307	-.397	-.438	-.437		
107	41.0	-.294	-.397	-.528	-.537		
108	52.5	-.251	-.329	-.417	-.603		
109	62.5	-.170	-.214	-.228	-.472		
110	72.5	-.066	-.081	-.085	-.100		
111	85.1	.048	.060	.054	.048		
112	94.6	.134	.145	.146	.145		
113	3.0	-.497	-.627	-.692	-.654		
114	10.0	-.340	-.431	-.481	-.467		
115	25.0	-.316	-.420	-.500	-.499		
116	41.0	--	--	--	--		
117	52.5	-.246	-.309	-.335	-.623		
118	62.5	-.156	-.183	-.180	-.312		
119	72.5	-.043	-.047	-.042	-.004		
120	87.4	.086	.103	.086	.090		
121	94.2	.126	.140	.143	.151		
122	3.0	-.525	-.627	-.670	-.690		
123	10.0	-.363	-.442	-.483	-.486		
124	25.0	-.315	-.403	-.483	-.558		
125	41.0	-.286	-.365	-.434	-.591		
126	52.5	-.225	-.276	-.288	-.528		
127	62.5	-.169	-.195	-.199	-.214		
128	72.5	-.064	-.067	-.062	-.024		
129	78.0	-.008	-.001	.005	-.032		
130	85.3	.073	.088	.098	.111		
131	94.1	.138	.157	.169	.174		
132	3.0	-.570	-.664	-.727	-.703		
133	10.0	-.374	-.463	-.518	-.548		
134	25.0	-.327	-.406	-.472	-.577		
135	41.0	-.298	-.378	-.429	-.609		
136	52.5	-.258	-.316	-.352	-.537		
137	62.5	-.181	-.209	-.217	-.185		
138	72.5	-.110	-.116	-.116	-.097		
139	83.4	-.038	.002	.004	.011		
140	94.0	.061	.080	.088	.092		
141	3.0	-.639	-.700	-.757	-.734		
142	10.0	-.406	-.492	-.563	-.620		
143	25.0	-.338	-.431	-.526	-.598		
144	41.0	-.311	-.398	-.490	-.626		
145	52.5	-.261	-.319	-.346	-.563		
146	62.5	-.166	-.167	-.181	-.195		
147	72.5	-.111	-.113	-.103	-.071		
148	84.0	-.022	-.004	.009	.037		
149	92.0	.048	.069	.083	.098		
150	3.0	-.598	-.732	-.854	-.839		
151	10.0	-.357	-.398	-.582	-.671		
152	25.0	-.304	-.382	-.461	-.613		
153	41.0	-.269	-.324	-.335	-.543		
154	52.5	-.203	-.228	-.223	-.172		
155	62.5	-.118	-.116	-.105	-.042		
156	72.5	-.052	-.037	-.026	.011		
157	84.9	.102	.128	.140	.155		

NACA

[redacted]

TABLE 33

$[\Lambda = 30^\circ, \delta_{a_n} = -5.1^\circ, \alpha = 0^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	0.061	0.111	0.139	0.177	0.206	
2	6.0	-.078	-.046	-.023	.010	-.041	
3	15.0	-.147	-.135	-.119	-.088	-.056	
4	27.5	-.193	-.199	-.189	-.161	-.128	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	.031	.081	.024	.150	.180	
13	6.0	-.114	-.091	-.070	-.035	-.002	
14	15.0	-.205	-.204	-.193	-.159	-.126	
15	27.5	-.274	-.308	-.302	-.270	-.235	
16	40.0	-.325	-.401	-.421	-.397	-.355	
17	50.0	-.324	-.421	-.482	-.454	-.426	
18	59.0	-.294	-.397	-.507	-.525	-.489	
19	67.5	-.230	-.316	-.408	-.487	-.461	
20	77.5	-.155	-.214	-.269	-.421	-.460	
21	88.0	-.056	-.080	-.103	-.166	-.286	
22	95.3	--	--	--	--	--	
C23	2.0	.017	.062	.093	.138	.168	
24	6.0	-.134	-.124	-.104	-.061	-.028	
25	15.0	-.237	-.238	-.248	-.216	-.180	
26	27.5	-.304	-.365	-.373	-.342	-.303	
27	40.0	-.352	-.459	-.504	-.478	-.440	
28	50.0	-.332	-.430	-.555	-.538	-.510	
29	59.0	-.302	-.406	-.537	-.620	-.604	
30	67.5	--	--	--	--	--	
31	77.5	-.103	-.118	-.130	-.321	-.540	
32	88.0	.013	.019	.021	.010	-.241	
33	95.3	.094	.119	.111	.118	.038	
D34	2.0	-.040	-.007	.015	.063	.093	
35	15.0	-.248	-.290	-.290	-.254	-.220	
36	27.5	-.307	-.390	-.412	-.379	-.329	
37	40.0	-.356	-.483	-.572	-.540	-.497	
38	50.0	-.341	-.422	-.601	-.611	-.603	
39	59.0	-.267	-.338	-.493	-.525	-.587	
40	67.5	-.242	-.358	-.360	-.523	-.558	
41	77.5	-.073	-.078	-.066	-.258	-.379	
42	87.5	.021	.033	.046	-.008	-.206	
43	94.2	.093	.112	.122	.090	-.083	
E44	2.0	.043	.068	.088	.135	.171	0.201
45	6.0	-.132	-.148	-.139	-.102	-.067	-.033
46	15.0	-.227	-.276	-.295	-.269	-.236	-.198
47	27.5	-.281	-.368	-.414	-.398	-.365	-.324
48	40.0	-.321	-.435	-.543	-.546	-.503	-.456
49	50.0	-.300	-.400	-.507	-.626	-.623	-.577
50	59.0	-.247	-.338	-.437	-.549	-.587	-.641
51	67.5	-.205	-.217	-.156	-.320	-.450	-.588
52	77.5	-.017	-.025	-.012	-.068	-.225	-.470
53	88.5	.173	.194	.196	.085	.020	-.054
54	95.5	.142	.169	.177	.124	.028	-.022
F55	2.0	.031	.046	.058	.106	.139	.169
56	6.0	-.118	-.136	-.138	-.103	-.068	-.035
57	15.0	-.215	-.275	-.302	-.284	-.253	-.215
58	27.5	-.267	-.354	-.413	-.410	-.378	-.337
59	49.0	-.300	-.409	-.515	-.561	-.524	-.476
60	50.0	-.268	-.354	-.441	-.552	-.594	-.595
61	59.0	-.214	-.298	-.361	-.555	-.570	-.616
62	67.5	-.099	-.107	-.077	-.116	-.485	-.603
63	86.5	--	--	--	--	--	--
64	94.5	--	--	--	--	--	--
G65	2.0	.076	.078	.076	.107	.139	.167
66	6.0	-.098	-.121	-.136	-.119	-.091	-.059
67	15.0	-.187	-.237	-.271	-.278	-.257	-.218
68	27.5	-.232	-.305	-.357	-.405	-.393	-.352
69	40.0	-.264	-.349	-.405	-.481	-.417	-.451
70	50.0	-.238	-.305	-.347	-.412	-.389	-.439
71	59.0	-.178	-.246	-.297	-.394	-.362	-.434
72	67.5	-.071	-.067	-.047	-.043	-.207	-.382
73	77.5	.100	.114	.121	.117	-.079	-.299
74	87.2	--	--	--	--	--	--
75	96.8	.134	.162	.170	.194	.151	.000
H76	2.0	.057	.060	.058	.071	.098	.126
77	6.0	-.118	-.152	-.172	-.169	-.152	-.120
78	15.0	-.184	-.244	-.285	-.312	-.293	-.260
79	27.5	-.232	-.306	-.360	-.441	-.442	-.409
80	40.0	-.254	-.321	-.357	-.405	-.396	-.389
81	50.0	-.225	-.270	-.296	-.372	-.394	-.389
82	59.0	-.168	-.228	-.268	-.349	-.330	-.343
83	67.5	-.151	-.205	-.156	-.018	-.094	-.269
84	88.3	.123	.154	.169	.189	.160	-.108
85	94.2	.129	.157	.172	.192	.185	-.036

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	-0.093	-0.084	-0.074	-0.064	-0.036	
87	10.0	--	--	--	--	--	
88	25.0	-.145	-.156	-.159	-.148	-.125	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	-.120	-.126	-.126	-.121	-.094	
96	10.0	-.130	-.137	-.139	-.122	-.106	
97	25.0	-.190	-.226	-.240	-.238	-.212	
98	41.0	-.210	-.270	-.310	-.330	-.319	
99	52.5	-.187	-.253	-.313	-.359	-.370	
100	62.5	-.137	-.186	-.222	-.311	-.412	
101	72.5	-.061	-.084	-.116	-.148	-.334	
102	86.3	.026	.012	.004	-.028	-.138	
103	94.5	--	--	--	--	--	
104	3.0	-.121	-.147	-.154	-.159	-.131	
105	10.0	-.163	-.197	-.212	-.214	-.185	
106	25.0	-.204	-.255	-.288	-.380	-.274	
107	41.0	-.237	-.276	-.350	-.416	-.408	
108	52.5	-.211	-.258	-.307	-.423	-.481	
109	62.5	-.137	-.171	-.196	-.234	-.509	
110	72.5	-.037	-.051	-.059	-.057	-.253	
111	85.1	.070	.077	.080	.083	.027	
112	94.6	.158	.196	.183	.192	.174	
113	3.0	-.118	-.154	-.180	-.202	-.181	
114	10.0	-.141	-.179	-.205	-.221	-.197	
115	25.0	-.205	-.264	-.309	-.346	-.330	
116	41.0	--	--	--	--	--	
117	52.5	-.185	-.234	-.270	-.357	-.493	
118	62.5	-.134	-.185	-.228	-.215	-.458	
119	72.5	.011	.019	.013	.010	-.318	
120	87.4	.105	.118	.126	.128	.090	
121	94.2	.140	.157	.166	.167	.126	
122	3.0	-.115	-.140	-.155	-.194	-.170	-0.134
123	10.0	-.167	-.222	-.252	-.292	-.222	-.191
124	25.0	-.200	-.255	-.288	-.346	-.346	-.314
125	41.0	-.211	-.269	-.301	-.368	-.457	-.428
126	52.5	-.171	-.217	-.244	-.304	-.408	-.478
127	62.5	-.135	-.177	-.204	-.237	-.382	-.445
128	72.5	-.073	-.027	-.009	-.026	-.074	-.419
129	78.0	.037	.038	.039	.021	.014	-.357
130	85.3	.103	.117	.121	.106	.093	-.199
131	94.1	.157	.177	.184	.159	.128	.041
132	3.0	-.142	-.163	-.175	-.219	-.205	-.171
133	10.0	-.164	-.201	-.220	-.265	-.241	-.198
134	25.0	-.208	-.260	-.288	-.337	-.354	-.331
135	41.0	-.224	-.285	-.319	-.380	-.461	-.438
136	52.5	-.207	-.256	-.287	-.340	-.472	-.540
137	62.5	-.151	-.186	-.202	-.228	-.329	-.532
138	72.5	-.086	-.096	-.099	-.115	-.131	-.402
139	83.4	-.002	.000	.004	-.012	-.027	-.181
140	94.0	.067	.083	.089	.081	.083	-.050
141	3.0	-.154	-.161	-.155	-.184	-.176	-.153
142	10.0	-.195	-.238	-.252	-.287	-.275	-.242
143	25.0	-.227	-.287	-.315	-.369	-.395	-.365
144	41.0	-.241	-.311	-.350	-.426	-.491	-.483
145	52.5	-.215	-.268	-.299	-.367	-.449	-.507
146	62.5	-.165	-.211	-.241	-.306	-.343	-.441
147	72.5	-.126	-.162	-.125	-.087	-.213	-.458
148	84.0	.004	.021	.028	.030	.026	-.250
149	92.0	.059	.077	.087	.082	.064	-.141
150	3.0	-.177	-.212	-.217	-.243	-.238	-.224
151	10.0	-.192	-.250	-.274	-.292	-.266	-.244
152	25.0	-.221	-.293	-.342	-.463	-.459	-.438
153	41.0	-.218	-.275	-.306	-.365	-.462	-.554
154	52.5	-.177	-.210	-.234	-.337	-.444	-.532
155	62.5	-.119	-.168	-.198	-.059	-.269	-.510
156	72.5	-.042	-.020	-.002	.011	.011	-.362
157	84.9	.112	.139	.150	.162	.189	.009

NACA

[redacted]

TABLE 34

[$\Lambda = 30^\circ$, $\delta_{a_n} = -3.1^\circ$, $\alpha = 2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-0.266	-0.206	-0.155	-0.093	-0.046	
2	6.0	-.302	-.268	-.231	-.189	-.143	
3	15.0	-.286	-.279	-.253	-.215	-.176	
4	27.5	-.289	-.313	-.292	-.255	-.216	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	-.347	-.271	-.209	-.140	-.088	
13	6.0	-.359	-.337	-.298	-.246	-.200	
14	15.0	-.359	-.374	-.348	-.298	-.258	
15	27.5	-.383	-.440	-.420	-.377	-.334	
16	40.0	-.407	-.523	-.526	-.475	-.428	
17	50.0	-.393	-.540	-.580	-.546	-.507	
18	59.0	-.342	-.491	-.634	-.608	-.560	
19	67.5	-.268	-.380	-.564	-.576	-.538	
20	77.5	-.179	-.247	-.340	-.554	-.538	
21	88.0	-.071	-.101	-.156	-.240	-.392	
22	95.3	--	--	--	--	--	
C23	2.0	-.397	-.321	-.249	-.169	-.107	
24	6.0	-.394	-.388	-.342	-.194	-.229	
25	15.0	-.403	-.449	-.419	-.368	-.319	
26	27.5	-.421	-.521	-.507	-.461	-.416	
27	40.0	-.441	-.601	-.628	-.573	-.521	
28	50.0	-.404	-.555	-.680	-.637	-.596	
29	59.0	-.362	-.525	-.680	-.687	-.689	
30	67.5	--	--	--	--	--	
31	77.5	-.130	-.146	-.204	-.511	-.631	
32	88.0	-.001	.006	-.007	-.103	-.401	
33	95.3	.083	.106	.110	.108	-.028	
D34	2.0	-.481	-.416	-.332	-.235	-.165	
35	15.0	-.426	-.540	-.476	-.418	-.366	
36	27.5	-.431	-.566	-.569	-.516	-.471	
37	40.0	-.450	-.647	-.696	-.639	-.587	
38	50.0	-.413	-.578	-.689	-.620	-.654	
39	59.0	-.339	-.487	-.631	-.582	-.603	
40	67.5	-.269	-.237	-.352	-.535	-.604	
41	77.5	-.111	-.110	-.130	-.363	-.480	
42	87.5	.007	.026	.046	-.202	-.343	
43	94.2	.085	.109	.107	-.087	-.258	
E44	2.0	-.439	-.413	-.334	-.225	-.125	-0.070
45	6.0	-.423	-.479	-.440	-.366	-.288	-.239
46	15.0	-.410	-.515	-.502	-.446	-.382	-.331
47	27.5	-.410	-.552	-.592	-.552	-.497	-.450
48	40.0	-.418	-.580	-.697	-.639	-.597	-.550
49	50.0	-.378	-.516	-.674	-.625	-.622	-.638
50	59.0	-.333	-.459	-.548	-.469	-.492	-.650
51	67.5	-.194	-.164	-.252	-.359	-.401	-.588
52	77.5	-.064	-.047	-.044	-.236	-.298	-.498
53	88.5	.149	.177	.124	-.108	-.201	-.206
54	95.5	.132	.165	.146	-.047	-.155	-.172
F55	2.0	-.446	-.449	-.380	-.266	-.158	-.098
56	6.0	-.417	-.484	-.457	-.377	-.292	-.239
57	15.0	-.403	-.527	-.527	-.469	-.401	-.349
58	27.5	-.397	-.546	-.614	-.577	-.518	-.468
59	49.0	-.393	-.544	-.696	-.675	-.629	-.577
60	50.0	-.345	-.470	-.628	-.624	-.635	-.648
61	59.0	-.280	-.386	-.582	-.624	-.635	-.638
62	67.5	-.130	-.107	-.057	-.325	-.557	-.635
63	86.5	--	--	--	--	--	--
64	94.6	--	--	--	--	--	--
G65	2.0	-.404	-.440	-.398	-.279	-.163	-.095
66	6.0	-.398	-.495	-.511	-.429	-.337	-.275
67	15.0	-.369	-.486	-.534	-.481	-.411	-.357
68	27.5	-.361	-.481	-.611	-.590	-.530	-.481
69	40.0	-.356	-.461	-.562	-.529	-.544	-.572
70	50.0	-.310	-.398	-.524	-.526	-.522	-.566
71	59.0	-.257	-.360	-.221	-.420	-.464	-.556
72	67.5	-.078	-.052	-.040	-.218	-.355	-.501
73	77.5	.082	.107	.104	-.028	-.165	-.381
74	87.2	--	--	--	--	--	--
75	96.8	.135	.172	.186	.154	.102	-.006
H76	2.0	-.352	-.421	-.419	-.319	-.203	-.134
77	6.0	-.378	-.500	-.560	-.490	-.398	-.331
78	15.0	-.329	-.442	-.551	-.534	-.470	-.413
79	27.5	-.328	-.422	-.500	-.565	-.486	-.476
80	40.0	-.322	-.395	-.448	-.513	-.453	-.433
81	50.0	-.279	-.340	-.400	-.481	-.359	-.359
82	59.0	-.231	-.313	-.215	-.162	-.241	-.291
83	67.5	-.119	.002	.001	-.030	-.156	-.252
84	88.3	.115	.150	.169	.146	.021	-.150
85	94.2	.126	.159	.176	.164	.053	-.117

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.166	0.174	0.177	0.179	0.195	
87	10.0	--	--	--	--	--	
88	25.0	-.048	-.051	-.050	-.045	-.028	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.158	.149	.146	.140	.152	
96	10.0	.016	.008	.006	.008	.023	
97	25.0	-.088	-.109	-.117	-.120	-.110	
98	41.0	-.136	-.177	-.200	-.220	-.222	
99	52.5	-.131	-.178	-.211	-.256	-.274	
100	62.5	-.094	-.082	-.136	-.193	-.309	
101	72.5	-.027	-.052	-.069	-.094	-.199	
102	86.3	.051	.039	.024	-.002	-.061	
103	94.5	--	--	--	--	--	
104	3.0	.171	.152	.136	.122	.126	
105	10.0	.016	-.003	-.015	-.023	-.016	
106	25.0	-.094	-.129	-.149	-.166	-.165	
107	41.0	-.148	-.196	-.229	-.273	-.307	
108	52.5	-.138	-.183	-.214	-.261	-.373	
109	62.5	-.091	-.125	-.149	-.187	-.342	
110	72.5	-.008	-.021	-.033	-.047	-.121	
111	85.1	.085	.097	.115	.091	.056	
112	94.6	.168	.190	.203	.191	.162	
113	3.0	.186	.160	--	.104	.092	
114	10.0	.044	.016	-.003	-.025	-.031	
115	25.0	-.091	-.129	-.157	-.190	-.213	
116	41.0	--	--	--	--	--	
117	52.5	-.127	-.163	-.188	-.314	-.360	
118	62.5	-.078	-.108	-.135	-.176	-.315	
119	72.5	-.028	-.051	-.020	.015	-.041	
120	87.4	.127	.147	.149	.123	.099	
121	94.2	.152	.173	.174	.130	.079	
122	3.0	.194	.186	.164	.127	.104	0.112
123	10.0	.000	-.022	-.044	-.055	-.075	-.065
124	25.0	-.086	-.116	-.136	-.176	-.208	-.197
125	41.0	-.132	-.170	-.194	-.247	-.327	-.353
126	52.5	-.110	-.140	-.160	-.211	-.282	-.397
127	62.5	-.086	-.105	-.122	-.176	-.245	-.361
128	72.5	-.039	-.073	-.095	-.146	-.162	-.322
129	78.0	.012	.072	.082	.016	-.012	-.189
130	85.3	.134	.146	.142	.094	.053	.016
131	94.1	.168	.189	.181	.106	.057	.043
132	3.0	.183	.181	.160	.117	.084	.087
133	10.0	.026	.014	-.002	-.037	-.064	-.060
134	25.0	-.093	-.119	-.136	-.177	-.211	-.206
135	41.0	-.145	-.182	-.207	-.263	-.323	-.357
136	52.5	-.146	-.182	-.205	-.269	-.347	-.455
137	62.5	-.109	-.132	-.151	-.213	-.288	-.455
138	72.5	-.060	-.069	-.075	-.129	-.171	-.324
139	83.4	.008	-.013	.007	-.060	-.128	-.215
140	94.0	.076	.089	.087	.032	-.014	-.085
141	3.0	.181	.193	.183	.140	.107	.099
142	10.0	-.002	-.009	-.023	-.062	-.088	-.090
143	25.0	-.107	-.139	-.158	-.205	-.233	-.244
144	41.0	-.163	-.209	-.238	-.312	-.379	-.390
145	52.5	-.156	-.196	-.220	-.290	-.422	-.500
146	62.5	-.153	-.157	-.183	-.251	-.356	-.485
147	72.5	-.077	-.105	-.130	-.200	-.330	-.460
148	84.0	-.045	-.023	.011	.008	-.017	-.339
149	92.0	.070	.088	.088	.049	.021	-.161
150	3.0	.131	.141	.136	.092	.062	.054
151	10.0	-.031	-.050	-.063	-.102	-.113	-.103
152	25.0	-.135	-.180	-.213	-.289	-.332	-.332
153	41.0	-.163	-.214	-.245	-.330	-.472	-.481
154	52.5	-.139	-.172	-.189	-.252	-.424	-.566
155	62.5	-.086	-.111	-.132	-.204	-.405	-.521
156	72.5	-.038	-.028	-.015	-.017	-.055	-.492
157	84.9	.108	.139	.149	.134	.085	-.102

NACA

[redacted]

TABLE 35

[$\Lambda = 30^\circ$, $\delta_{a_n} = -5.1^\circ$, $\alpha = 4^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-0.722	-0.619	-0.549	-0.444	-0.351	
2	6.0	-.559	-.529	-.494	-.421	-.351	
3	15.0	-.430	-.432	-.405	-.354	-.306	
4	27.5	-.392	-.434	-.404	-.350	-.294	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	-.831	-.747	-.694	-.526	-.413	
13	6.0	-.643	-.641	-.603	-.524	-.446	
14	15.0	-.516	-.555	-.515	-.451	-.390	
15	27.5	-.488	-.575	-.550	-.494	-.435	
16	40.0	-.486	-.654	-.619	-.567	-.514	
17	50.0	-.446	-.675	-.693	-.637	-.577	
18	59.0	-.382	-.619	-.738	-.683	-.623	
19	67.5	-.298	-.431	-.699	-.661	-.607	
20	77.5	-.202	-.268	-.462	-.642	-.605	
21	88.0	-.087	-.116	-.260	-.342	-.505	
22	95.3	--	--	--	--	--	
C23	2.0	-.924	-.818	-.683	-.543	-.424	
24	6.0	-.705	-.740	-.701	-.602	-.505	
25	15.0	-.569	-.648	-.598	-.527	-.457	
26	27.5	-.531	-.683	-.658	-.597	-.531	
27	40.0	-.523	-.766	-.739	-.676	-.610	
28	50.0	-.463	-.720	-.791	-.723	-.661	
29	59.0	-.395	-.672	-.774	-.722	-.748	
30	67.5	--	--	--	--	--	
31	77.5	-.160	-.164	-.367	-.689	-.675	
32	88.0	-.026	-.005	-.021	-.326	-.577	
33	95.3	.064	.098	.086	.075	-.153	
D34	2.0	-1.080	-.926	-.752	-.590	-.455	
35	15.0	-.596	-.743	-.689	-.602	-.523	
36	27.5	-.543	-.764	-.750	-.678	-.607	
37	40.0	-.529	-.843	-.813	-.732	-.689	
38	50.0	-.471	-.791	-.784	-.693	-.713	
39	59.0	-.373	-.478	-.717	-.636	-.655	
40	67.5	-.263	-.235	-.594	-.542	-.666	
41	77.5	-.137	-.115	-.259	-.421	-.575	
42	87.5	-.009	.020	-.107	-.315	-.460	
43	94.2	.108	.092	-.023	-.250	-.395	
E44	2.0	-1.054	-1.015	-.779	-.590	-.469	-0.355
45	6.0	-.758	-1.035	-.870	-.721	-.619	-.514
46	15.0	-.575	-.822	-.772	-.673	-.598	-.509
47	27.5	-.521	-.785	-.773	-.704	-.642	-.571
48	40.0	-.491	-.814	-.779	-.682	-.665	-.660
49	50.0	-.425	-.550	-.752	-.671	-.648	-.708
50	59.0	-.331	-.335	-.580	-.542	-.591	-.706
51	67.5	-.218	-.209	-.340	-.400	-.479	-.642
52	77.5	-.084	-.057	-.150	-.294	-.379	-.586
53	88.5	.072	.124	-.012	-.202	-.307	-.388
54	95.5	.105	.141	.029	-.159	-.268	-.339
F55	2.0	-1.054	-1.045	-.811	-.631	-.509	-.392
56	6.0	-.781	-1.069	-.891	-.735	-.624	-.514
57	15.0	-.569	-.868	-.832	-.710	-.624	-.528
58	27.5	-.504	-.799	-.795	-.725	-.664	-.587
59	49.0	-.473	-.740	-.795	-.797	-.755	-.683
60	50.0	-.392	-.441	-.769	-.741	-.736	-.749
61	59.0	-.285	-.282	-.642	-.663	-.715	-.742
62	67.5	-.153	-.135	-.121	-.257	-.398	-.722
63	86.5	--	--	--	--	--	--
64	94.6	--	--	--	--	--	--
G65	2.0	-1.021	-1.054	-.800	-.629	-.499	-.383
66	6.0	-.755	-1.105	-.903	-.732	-.630	-.521
67	15.0	-.537	-.935	-.875	-.756	-.655	-.559
68	27.5	-.467	-.778	-.793	-.686	-.625	-.606
69	40.0	-.429	-.449	-.772	-.663	-.600	-.600
70	50.0	-.355	-.395	-.556	-.461	-.481	-.590
71	59.0	-.241	-.257	-.353	-.329	-.377	-.549
72	67.5	-.118	-.107	-.125	-.270	-.330	-.505
73	77.5	.041	.072	.021	-.203	-.288	-.457
74	87.2	--	--	--	--	--	--
75	96.8	.138	.098	.177	.012	-.103	-.247
H76	2.0	-.867	-1.058	-.821	-.644	-.514	-.401
77	6.0	-.660	-.995	-.908	-.765	-.650	-.545
78	15.0	-.475	-.868	-.880	-.794	-.705	-.607
79	27.5	-.411	-.313	-.778	-.685	-.625	-.564
80	40.0	-.378	-.422	-.511	-.549	-.513	-.538
81	50.0	-.317	-.343	-.225	-.307	-.334	-.464
82	59.0	-.211	-.205	-.115	-.198	-.264	-.390
83	67.5	-.093	-.073	-.035	-.130	-.213	-.342
84	88.3	.110	.141	.126	.009	-.117	-.294
85	94.2	.128	.157	.145	.039	-.086	-.267

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.376	0.377	0.382	0.373	0.375	
87	10.0	--	--	--	--	--	
88	25.0	.046	.052	.057	.054	.062	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.376	.361	.357	.343	.338	
96	10.0	.160	.154	.155	.146	.149	
97	25.0	.010	.000	-.004	-.014	.067	
98	41.0	-.065	-.088	-.101	-.126	-.136	
99	52.5	-.072	-.104	-.125	-.166	-.205	
100	62.5	-.052	-.074	-.094	-.132	-.193	
101	72.5	.007	-.010	-.028	-.062	-.117	
102	86.3	.074	.071	.051	.016	-.024	
103	94.5	--	--	--	--	--	
104	3.0	.393	.366	.356	.330	.318	
105	10.0	.167	.153	.146	.129	.123	
106	25.0	.007	-.014	-.026	-.049	-.060	
107	41.0	-.076	-.106	-.128	-.168	-.206	
108	52.5	-.083	-.111	-.138	-.188	-.245	
109	62.5	-.049	-.068	-.092	-.138	-.215	
110	72.5	.018	.025	-.001	-.038	-.089	
111	85.1	.097	.114	.104	.081	.063	
112	94.6	.164	.190	.185	.165	.130	
113	3.0	.412	.282	.357	.320	.293	
114	10.0	.190	.173	.158	.129	.111	
115	25.0	.013	-.010	-.030	-.067	-.096	
116	41.0	--	--	--	--	--	
117	52.5	-.073	-.097	-.127	-.183	-.253	
118	62.5	-.036	-.051	-.076	-.130	-.184	
119	72.5	.026	.048	.028	-.028	-.055	
120	87.4	.130	.157	.136	.088	.062	
121	94.2	.146	.176	.140	.057	.019	
122	3.0	.420	.401	.369	.328	.312	0.297
123	10.0	.187	.167	.139	.110	.093	.079
124	25.0	.018	.003	-.024	-.065	-.086	-.097
125	41.0	-.059	-.080	-.112	-.168	-.211	-.252
126	52.5	-.058	-.072	-.105	-.166	-.202	-.259
127	62.5	-.049	-.055	-.088	-.160	-.214	-.233
128	72.5	.004	-.006	-.040	-.105	-.153	-.184
129	78.0	.024	.022	-.008	-.077	-.121	-.078
130	85.3	.110	.169	.137	.059	.012	.028
131	94.1	.162	.193	.147	.059	.015	.012
132	3.0	.418	.401	.366	.320	.298	.277
133	10.0	.184	.176	.149	.110	.093	.080
134	25.0	.013	.001	-.027	-.070	-.092	-.105
135	41.0	-.070	-.090	-.124	-.185	-.219	-.252
136	52.5	-.091	-.111	-.148	-.223	-.283	-.310
137	62.5	-.065	-.079	-.115	-.190	-.254	-.289
138	72.5	-.034	-.034	-.067	-.140	-.189	-.195
139	83.4	-.003	.017	-.030	-.134	-.229	-.265
140	94.0	.072	.095	.052	-.048	-.164	-.236
141	3.0	.420	.415	.381	.330	.307	.284
142	10.0	.162	.159	.129	.083	.062	.051
143	25.0	-.002	-.016	-.047	-.101	-.125	-.128
144	41.0	-.090	-.118	-.159	-.238	-.295	-.297
145	52.5	-.103	-.130	-.170	-.259	-.371	-.403
146	62.5	-.051	-.117	-.121	-.201	-.317	-.412
147	72.5	-.045	-.053	-.087	-.168	-.283	-.357
148	84.0	-.044	-.040	-.067	-.159	-.255	-.455
149	93.0	.070	.098	.076	-.013	-.120	-.342
150	3.0	.361	.363	.327	.276	.252	.236
151	10.0	.109	.103	.069	.023	.007	.010
152	25.0	.046	-.083	-.128	-.200	-.230	-.226
153	41.0	-.111	-.153	-.204	-.321	-.413	-.406
154	52.5	-.103	-.136	-.193	-.272	-.486	-.524
155	62.5	-.057	-.078	-.112	-.210	-.430	-.556
156	72.5	-.023	-.022	-.042	-.088	-.281	-.500
157	84.9	.129	.121	.114	.050	-.036	-.319

NACA

[redacted]

TABLE 36

[$\Lambda = 30^\circ$, $\delta_{a_D} = -5.1^\circ$, $\alpha = 7^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.802	0.85	0.89	0.925	0.96
A 1	2.0	-2.002	-1.361	-1.133	-0.961	-0.827	
2	6.0	-.907	-1.197	-1.011	-.877	-.603	
3	15.0	-.662	-.691	-.628	-.566	-.498	
4	27.5	-.619	-.610	-.561	-.512	-.455	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	-2.040	-1.388	-1.167	-.991	-.843	
13	6.0	-1.107	-1.293	-1.129	-.991	-.865	
14	15.0	-.758	-1.033	-.982	-.863	-.745	
15	27.5	-.641	-.746	-.704	-.659	-.597	
16	40.0	-.592	-.799	-.760	-.700	-.633	
17	50.0	-.526	-.855	-.804	-.746	-.677	
18	59.0	-.438	-.845	-.847	-.785	-.719	
19	67.5	-.346	-.503	-.825	-.771	-.710	
20	77.5	-.236	-.309	-.593	-.762	-.703	
21	88.0	-.120	-.161	-.343	-.514	-.633	
22	95.3	--	--	--	--	--	
C23	2.0	-2.109	-1.409	-1.168	-.980	-.817	
24	6.0	-1.323	-1.363	-1.160	-1.010	-.876	
25	15.0	-.826	-1.209	-1.068	-.955	-.848	
26	27.5	-.686	-.843	-.982	-.877	-.778	
27	40.0	-.619	-.919	-.837	-.760	-.710	
28	50.0	-.542	-.972	-.892	-.835	-.762	
29	59.0	-.428	-.573	-1.002	-.922	-.843	
30	67.5	--	--	--	--	--	
31	77.5	-.173	-.182	-.380	-.577	-.847	
32	88.0	-.054	-.026	-.268	-.358	-.448	
33	95.3	-.003	-.026	-.083	-.196	-.279	
D34	2.0	-1.896	-1.447	-1.189	-.996	-.829	
35	15.0	-.928	-1.306	-1.125	-.992	-.879	
36	27.5	-.686	-1.229	-1.116	-1.002	-.903	
37	40.0	-.606	-1.183	-1.064	-.954	-.923	
38	50.0	-.513	-.888	-1.037	-.937	-.896	
39	59.0	-.415	-.348	-.537	-.818	-.825	
40	67.5	-.278	-.197	-.298	-.597	-.872	
41	77.5	-.143	-.115	-.248	-.375	-.808	
42	87.5	-.038	-.098	-.241	-.328	-.480	
43	94.2	-.016	-.089	-.234	-.326	-.365	
E44	2.0	-1.716	-1.515	-1.232	-1.028	-.874	-0.730
45	6.0	-1.457	-1.450	-1.207	-1.044	-.907	-.779
46	15.0	-.992	-1.346	-1.144	-1.003	-.894	-.766
47	27.5	-.648	-1.249	-1.061	-.936	-.895	-.824
48	40.0	-.552	-.905	-.904	-.845	-.853	-.866
49	50.0	-.450	-.596	-.648	-.623	-.786	-.882
50	59.0	-.335	-.412	-.560	-.540	-.671	-.869
51	67.5	-.221	-.252	-.482	-.491	-.594	-.834
52	77.5	-.104	-.104	-.382	-.444	-.539	-.794
53	88.5	.024	.067	-.229	-.382	-.488	-.682
54	95.5	.047	.093	-.148	-.351	-.454	-.518
F55	2.0	-1.767	-1.523	-1.242	-1.029	-.867	-.712
56	6.0	-1.615	-1.452	-1.208	-1.045	-.909	-.779
57	15.0	-.966	-1.308	-1.085	-1.005	-.903	-.788
58	27.5	-.626	-1.158	-.996	-.967	-.925	-.829
59	40.0	-.521	-.711	-.647	-.889	-.902	-.877
60	50.0	-.409	-.540	-.535	-.742	-.880	-.901
61	59.0	-.295	-.383	-.465	-.474	-.791	-.909
62	67.5	-.175	-.262	-.409	-.387	-.540	-.891
63	86.5	--	--	--	--	--	--
64	94.6	--	--	--	--	--	--
G65	2.0	-1.542	-1.489	-1.251	-1.031	-.863	-.690
66	6.0	-1.387	-1.366	-1.227	-1.050	-.908	-.772
67	15.0	-.972	-1.264	-1.097	-.954	-.863	-.785
68	27.5	-.610	-.839	-1.026	-.889	-.804	-.808
69	40.0	-.455	-.583	-.701	-.702	-.705	-.824
70	50.0	-.346	-.438	-.560	-.584	-.581	-.828
71	59.0	-.231	-.334	-.376	-.502	-.522	-.812
72	67.5	-.130	-.243	-.270	-.427	-.500	-.802
73	77.5	-.036	-.145	-.236	-.355	-.474	-.758
74	87.2	--	--	--	--	--	--
75	98.8	.090	-.001	-.141	-.159	-.311	-.502
H76	2.0	-1.585	-.886	-.921	-.849	-.828	-.695
77	6.0	-1.196	-.836	-.881	-.899	-.798	-.770
78	15.0	-.672	-.692	-.717	-.688	-.733	-.798
79	27.5	-.486	-.557	-.570	-.511	-.577	-.768
80	40.0	-.385	-.448	-.482	-.435	-.461	-.772
81	50.0	-.287	-.373	-.414	-.395	-.418	-.735
82	59.0	-.185	-.312	-.355	-.361	-.393	-.695
83	67.5	-.096	-.254	-.302	-.319	-.370	-.644
84	88.3	.024	-.162	-.194	-.278	-.355	-.649
85	94.2	.043	-.127	-.157	-.256	-.339	-.627

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.924	0.96
86	3.0	0.590	0.582	0.573	0.568	0.572	
87	10.0	--	--	--	--	--	
88	25.0	.169	.179	.174	.173	.182	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.583	.554	.540	.529	.528	
96	10.0	.327	.322	.311	.304	.307	
97	25.0	.134	.128	.117	.108	.111	
98	41.0	.028	.016	-.003	-.019	-.022	
99	52.5	.006	-.015	-.043	-.070	-.084	
100	62.5	.006	-.011	-.042	-.070	-.090	
101	72.5	.043	.041	.010	-.021	-.018	
102	86.3	.107	.105	.078	.043	.027	
103	94.5	--	--	--	--	--	
104	3.0	.595	.554	.531	.514	.508	
105	10.0	.342	.317	.298	.284	.282	
106	25.0	.133	.115	.094	.077	.073	
107	41.0	.020	.016	-.035	-.062	-.077	
108	52.5	-.010	-.036	-.073	-.108	-.134	
109	62.5	-.009	-.015	-.051	-.090	-.118	
110	72.5	.053	.044	.012	-.024	-.047	
111	85.1	.111	.117	.172	.049	.036	
112	94.6	.156	.161	.210	.077	.063	
113	3.0	.603	.554	.526	.501	.486	
114	10.0	.359	.327	.302	.281	.271	
115	25.0	.140	.113	.083	.058	.045	
116	41.0	--	--	--	--	--	
117	52.8	-.006	-.036	-.083	-.126	-.166	
118	62.5	.010	-.013	-.064	-.107	-.217	
119	72.5	.067	.056	.009	-.024	-.049	
120	87.4	.130	.130	.082	.052	.040	
121	94.2	.130	.117	.037	.004	-.006	
122	3.0	.610	.570	.533	.510	.493	-.044
123	10.0	.330	.332	.286	.251	.243	.046
124	25.0	.146	.121	.084	.058	.045	.036
125	41.0	.034	.006	-.039	-.077	-.097	-.110
126	52.5	.010	-.014	-.066	-.110	-.129	-.129
127	62.5	-.005	-.026	-.087	-.141	-.172	-.184
128	72.5	.037	.027	-.032	-.087	-.106	-.113
129	78.0	.061	.069	.009	-.057	-.078	-.078
130	88.3	.117	.131	.068	.005	.003	.024
131	94.1	.137	.163	.079	-.013	-.010	.017
132	3.0	.613	.567	.526	.499	.481	-.084
133	10.0	.356	.324	.285	.251	.247	.039
134	25.0	.139	.115	.075	.048	.035	.026
135	41.0	.023	-.006	-.059	-.098	-.116	-.122
136	52.5	-.020	-.052	-.115	-.165	-.191	-.204
137	62.5	-.022	-.047	-.116	-.170	-.189	-.198
138	72.5	-.007	-.025	-.099	-.150	-.150	-.136
139	83.4	-.007	-.050	-.169	-.251	-.287	-.295
140	94.0	.036	.019	-.120	-.220	-.273	-.267
141	3.0	.603	.564	.520	.491	.472	-.194
142	10.0	.330	.297	.252	.223	.209	.009
143	25.0	.120	.085	.036	.003	-.008	-.017
144	41.0	-.006	-.055	-.120	-.170	-.191	-.198
145	52.5	-.042	-.100	-.176	-.241	-.261	-.265
146	62.5	-.033	-.052	-.165	-.223	-.285	-.299
147	72.5	-.026	-.086	-.171	-.230	-.276	-.260
148	84.0	-.052	-.111	-.186	-.272	-.452	-.472
149	92.0	-.043	-.026	-.120	-.155	-.272	-.374
150	3.0	.539	.490	.452	.419	.403	-.167
151	10.0	.252	.210	.169	.138	.129	.036
152	25.0	.043	-.017	-.073	-.123	-.135	-.135
153	41.0	-.052	-.133	-.203	-.297	-.328	-.329
154	52.5	-.068	-.152	-.219	-.349	-.435	-.437
155	62.5	-.042	-.121	-.173	-.279	-.433	-.464
156	72.5	-.029	-.116	-.158	-.236	-.366	-.397
157	84.9	.040	-.075	-.102	-.184	-.407	-.522

NACA

[redacted]

TABLE 37

[$\Lambda = 30^\circ$, $\delta_{a_n} = 5.0^\circ$, $\alpha = -2^\circ$]

[redacted]

UPPER SURFACE								LOWER SURFACE							
Tube	Percent chord	Mach Number						Tube	Percent chord	Mach Number					
		0.60	0.80	0.85	0.89					0.60	0.80	0.85	0.89		
A 1	2.0	0.316	0.349	0.363	0.376			86	3.0	-0.389	-0.408	-0.396	-0.359		
2	6.0	.104	.135	.151	.165			87	10.0	--	--	--	--		
3	15.0	-.029	-.002	.011	.027			88	25.0	-.233	-.271	-.278	-.258		
4	27.5	-.106	-.101	-.092	-.075			89	41.0	--	--	--	--		
5	40.0	--	--	--	--			90	52.5	--	--	--	--		
6	50.0	--	--	--	--			91	62.5	--	--	--	--		
7	59.0	--	--	--	--			92	72.5	--	--	--	--		
8	67.5	--	--	--	--			93	84.0	--	--	--	--		
9	77.5	--	--	--	--			94	94.0	--	--	--	--		
10	87.5	--	--	--	--										
11	96.0	--	--	--	--										
B12	2.0	.300	.334	.345	.355			95	3.0	-.442	-.496	-.494	-.454		
13	6.0	.080	.105	.118	.131			96	10.0	-.295	-.345	-.356	-.333		
14	15.0	-.075	-.068	-.057	-.042			97	25.0	-.278	-.344	-.363	-.352		
15	27.5	-.177	-.193	-.189	-.175			98	41.0	-.270	-.365	-.435	-.431		
16	40.0	-.249	-.299	-.311	-.301			99	52.5	-.233	-.328	-.422	-.478		
17	50.0	-.265	-.337	-.365	-.367			100	62.5	-.169	-.237	-.288	-.517		
18	59.0	-.249	-.328	-.387	-.404			101	72.5	-.087	-.128	-.153	-.293		
19	67.5	-.193	-.272	-.323	-.421			102	86.3	.007	-.009	-.021	-.066		
20	77.5	-.135	-.187	-.222	-.295			103	94.5	--	--	--	--		
21	88.0	-.026	-.049	-.085	-.147										
22	95.3	--	--	--	--										
C23	2.0	.302	.336	.345	.352			104	3.0	-.466	-.563	-.576	-.556		
24	6.0	.070	.089	.099	.109			105	10.0	-.333	-.417	-.437	-.408		
25	15.0	-.097	-.103	-.096	-.084			106	25.0	-.298	-.390	-.433	-.437		
26	27.5	-.203	-.238	-.243	-.232			107	41.0	-.283	-.350	-.507	-.533		
27	40.0	-.276	-.353	-.384	-.380			108	52.5	-.229	-.321	-.394	-.603		
28	50.0	-.278	-.372	-.453	-.476			109	62.5	-.162	-.207	-.221	-.521		
29	59.0	-.259	-.334	-.410	-.534			110	72.5	-.057	-.072	-.077	-.106		
30	67.5	--	--	--	--			111	85.1	.052	.058	.062	.054		
31	77.5	-.087	-.105	-.110	-.186			112	94.6	.140	.149	.153	.147		
32	88.0	.020	.019	.018	.031										
33	95.3	.107	.110	.111	.117										
D34	2.0	.259	.296	.295	.306			113	3.0	-.468	-.612	-.668	-.644		
35	15.0	-.105	-.116	-.119	-.111			114	10.0	-.319	-.420	-.467	-.460		
36	27.5	-.206	-.253	-.271	-.266			115	25.0	-.298	-.406	-.485	-.504		
37	40.0	-.285	-.369	-.425	-.443			116	41.0	--	--	--	--		
38	50.0	-.285	-.380	-.450	-.543			117	52.5	-.243	-.296	-.322	-.609		
39	59.0	-.227	-.305	-.391	-.518			118	62.5	-.143	-.170	-.167	-.343		
40	67.5	-.196	-.286	-.334	-.475			119	72.5	-.032	-.037	-.029	.005		
41	77.5	-.105	-.055	-.070	-.066			120	87.4	.094	.100	.115	.118		
42	87.5	.033	.031	.037	.066			121	94.2	.134	.147	.155	.162		
43	94.2	.101	.111	.119	.138										
E44	2.0	.338	.377	.387	.389			122	3.0	-.464	-.616	-.689	-.727		
45	6.0	.073	.095	.103	.108			123	10.0	-.389	-.488	-.491	-.525		
46	15.0	-.098	-.102	-.103	-.103			124	25.0	-.282	-.380	-.445	-.564		
47	27.5	-.204	-.240	-.256	-.266			125	41.0	-.246	-.318	-.359	-.561		
48	40.0	-.279	-.355	-.397	-.449			126	52.5	-.177	-.215	-.217	-.447		
49	50.0	-.285	-.365	-.421	-.555			127	62.5	-.112	-.133	-.135	-.067		
50	59.0	-.257	-.332	-.376	-.529			128	72.5	-.005	.001	-.008	.056		
51	67.5	-.206	-.256	-.266	-.280			129	78.0	.048	.066	.075	.111		
52	77.5	-.065	-.074	-.077	-.064			130	85.5	.125	.146	.158	.184		
53	88.5	.145	.133	.140	.146			131	94.1	.171	.186	.203	.221		
54	95.5	.119	.136	.142	.152										
F55	2.0	.313	.354	.363	.369			132	3.0	-.473	-.634	-.741	-.733		
56	6.0	.074	.101	.113	.116			133	10.0	-.320	-.429	-.518	-.576		
57	15.0	-.104	-.109	-.105	-.109			134	25.0	-.267	-.353	-.404	-.577		
58	27.5	-.207	-.244	-.259	-.271			135	41.0	-.224	-.289	-.321	-.529		
59	49.0	-.287	-.361	-.403	-.444			136	52.5	-.165	-.200	-.209	-.237		
60	50.0	-.300	-.383	-.445	-.564			137	62.5	-.048	-.055	-.054	.002		
61	59.0	-.280	-.347	-.385	-.514			138	72.5	.083	.093	.102	.133		
62	67.5	-.231	-.285	-.313	-.346			139	83.4	.193	.211	.219	.245		
63	86.5	-.039	-.041	-.036	-.019			140	94.0	.145	.168	.176	.195		
64	94.8	--	--	--	--										
G65	2.0	.303	.358	.377	.383			141	3.0	-.414	-.577	-.690	-.756		
66	6.0	.057	.090	.195	.114			142	10.0	-.308	-.419	-.506	-.663		
67	15.0	-.107	-.109	-.105	-.093			143	25.0	-.246	-.326	-.368	-.567		
68	27.5	-.216	-.253	-.263	-.272			144	41.0	-.198	-.250	-.267	-.325		
69	40.0	-.300	-.378	-.415	-.441			145	52.5	-.134	-.144	-.145	-.089		
70	50.0	-.320	-.413	-.477	-.592			146	62.5	-.018	-.001	.003	.035		
71	59.0	-.290	-.369	-.424	-.531			147	72.5	.107	.123	.000	.156		
72	67.5	-.253	-.319	-.373	-.492			148	84.0	.241	.260	.262	.291		
73	77.5	-.216	-.282	-.334	-.263			149	92.0	.175	.203	.214	.226		
74	87.2	-.132	-.048	-.010	.006										
75	96.8	.117	.124	.136	.139										
H76	2.0	.239	.284	.304	.323			150	3.0	-.384	-.535	-.648	-.813		
77	6.0	.004	.014	.023	.038			151	10.0	-.270	-.360	-.399	-.638		
78	15.0	-.137	-.160	-.169	-.165			152	25.0	-.230	-.295	-.320	-.413		
79	27.5	-.220	-.274	-.297	-.294			153	41.0	-.183	-.214	-.223	-.178		
80	40.0	-.286	-.376	-.447	-.505			154	52.5	-.118	-.109	-.104	-.083		
81	50.0	-.300	-.374	-.426	-.482			155	62.5	-.004	.012	.037	.037		
82	59.0	-.246	-.305	-.364	-.461			156	72.5	.103	.117	.128	.143		
83	67.5	-.190	-.270	-.338	-.420			157	84.9	.137	.174	.186	.176		
84	88.3	-.008	.032	.054	.072										
85	94.2	.076	1.01	.122	.122										

[redacted]

TABLE 38

[$\Lambda = 30^\circ$, $\delta_{a_n} = 5.0^\circ$, $\alpha = 0^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	0.056	0.106	0.135	0.165	0.012	
2	6.0	-.085	-.049	-.028	.002	-.012	
3	15.0	-.155	-.137	-.120	-.094	-.083	
4	27.5	-.199	-.203	-.192	-.168	-.157	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	.021	.077	.107	.140	.011	
13	6.0	-.122	-.095	-.070	-.040	-.030	
14	15.0	-.211	-.210	-.195	-.169	-.158	
15	27.5	-.278	-.309	-.303	-.276	-.263	
16	40.0	-.328	-.401	-.417	-.395	-.365	
17	50.0	-.329	-.429	-.476	-.468	-.378	
18	59.0	-.299	-.408	-.499	-.483	-.444	
19	67.5	-.235	-.326	-.453	-.550	-.589	
20	77.5	-.159	-.219	-.283	-.446	-.517	
21	88.0	-.050	-.059	-.111	-.201	-.345	
22	95.3	--	--	--	--	--	
C23	2.0	.006	.061	.095	.133	.021	
24	6.0	-.142	-.124	-.100	-.066	-.055	
25	15.0	-.244	-.262	-.249	-.219	-.208	
26	27.5	-.311	-.369	-.371	-.344	-.325	
27	40.0	-.361	-.468	-.503	-.481	-.458	
28	50.0	-.345	-.468	-.566	-.562	-.511	
29	59.0	-.311	-.419	-.560	-.628	-.588	
30	67.5	--	--	--	--	--	
31	77.5	-.105	-.125	-.129	-.403	-.547	
32	88.0	.007	.008	.013	-.039	-.379	
33	95.3	.093	.102	.105	.106	-.037	
D34	2.0	-.063	-.017	.016	.063	.066	
35	15.0	-.259	-.293	-.285	-.255	-.243	
36	27.5	-.321	-.396	-.410	-.383	-.369	
37	40.0	-.371	-.495	-.574	-.543	-.516	
38	50.0	-.354	-.478	-.609	-.634	-.615	
39	59.0	-.285	-.389	-.520	-.564	-.621	
40	67.5	-.262	-.386	-.493	-.557	-.597	
41	77.5	-.201	-.065	-.052	-.318	-.511	
42	87.5	.018	.029	.042	-.054	-.211	
43	94.2	.097	.113	.122	.082	-.094	
E44	2.0	-.002	.066	.106	.156	.007	0.210
45	6.0	-.170	-.152	-.127	-.086	-.048	-.021
46	15.0	-.262	-.289	-.288	-.258	-.222	-.189
47	27.5	-.325	-.382	-.415	-.390	-.354	-.315
48	40.0	-.371	-.487	-.568	-.544	-.499	-.451
49	50.0	-.360	-.472	-.603	-.674	-.628	-.573
50	59.0	-.315	-.409	-.522	-.675	-.658	-.640
51	67.5	-.240	-.289	-.276	-.394	-.446	-.582
52	77.5	-.095	-.098	-.090	-.148	-.235	-.363
53	88.5	.126	.132	.122	.027	-.087	-.217
54	95.5	.113	.137	.140	.066	-.039	-.144
F55	2.0	-.043	.024	.066	.124	.166	.181
56	6.0	-.176	-.143	-.127	-.083	-.044	-.022
57	15.0	-.273	-.304	-.301	-.273	-.237	-.206
58	27.5	-.331	-.401	-.426	-.404	-.367	-.330
59	40.0	-.384	-.501	-.573	-.556	-.514	-.469
60	50.0	-.377	-.488	-.610	-.690	-.645	-.592
61	59.0	-.340	-.428	-.548	-.653	-.658	-.654
62	67.5	-.276	-.340	-.324	-.623	-.627	-.636
63	86.5	-.052	-.094	-.037	-.052	-.128	-.317
64	94.6	--	--	--	--	--	--
G65	2.0	-.074	.007	.056	.117	.170	.180
66	6.0	-.209	-.186	-.159	-.111	-.063	-.047
67	15.0	-.282	-.313	-.309	-.279	-.239	-.213
68	27.5	-.342	-.413	-.436	-.416	-.379	-.347
69	40.0	-.397	-.518	-.577	-.560	-.507	-.469
70	50.0	-.397	-.516	-.623	-.560	-.459	-.454
71	59.0	-.351	-.449	-.559	-.537	-.462	-.449
72	67.5	-.307	-.413	-.541	-.530	-.398	-.415
73	77.5	-.273	-.301	-.193	-.281	-.268	-.324
74	87.2	-.046	-.012	.009	-.043	-.164	-.243
75	96.8	.100	.130	.144	.050	-.118	-.188
H76	2.0	-.102	-.055	-.020	.046	.118	-.111
77	6.0	-.232	-.237	-.242	-.196	-.135	-.112
78	15.0	-.276	-.339	-.358	-.327	-.280	-.249
79	27.5	-.314	-.392	-.430	-.396	-.347	-.311
80	40.0	-.358	-.465	-.586	-.496	-.417	-.416
81	50.0	-.348	-.428	-.515	-.465	-.414	-.408
82	59.0	-.291	-.370	-.488	-.462	-.385	-.395
83	67.5	-.252	-.351	-.321	-.297	-.288	-.335
84	88.3	-.003	-.032	.059	.003	-.099	-.206
85	94.2	.004	.107	.120	.025	-.046	-.152

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	-0.082	-0.073	-0.068	-0.053	-0.022	
87	10.0	--	--	--	--	--	
88	25.0	-.143	-.157	-.161	-.153	-.125	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	-.112	-.122	-.125	-.116	-.083	
96	10.0	-.139	-.154	-.153	-.141	-.106	
97	25.0	-.185	-.221	-.239	-.239	-.210	
98	41.0	-.205	-.267	-.306	-.335	-.318	
99	52.5	-.181	-.259	-.306	-.364	-.362	
100	62.5	-.132	-.181	-.218	-.329	-.420	
101	72.5	-.057	-.089	-.106	-.152	-.361	
102	86.3	.026	.014	.002	-.022	-.185	
103	94.5	.349	--	--	--	--	
104	3.0	-.108	-.140	-.155	-.068	-.120	
105	10.0	-.153	-.193	-.212	-.213	-.178	
106	25.0	-.196	-.253	-.285	-.301	-.273	
107	41.0	-.215	-.286	-.342	-.418	-.406	
108	52.5	-.191	-.253	-.299	-.432	-.482	
109	62.5	-.130	-.165	-.190	-.247	-.501	
110	72.5	-.030	-.043	-.052	-.054	-.471	
111	85.1	.068	.087	.053	.079	-.026	
112	94.6	.164	.177	.185	.192	.164	
113	3.0	-.100	-.151	-.183	-.203	-.255	
114	10.0	-.129	-.176	-.207	-.225	-.280	
115	25.0	-.190	-.257	-.304	-.348	-.346	
116	41.0	.619	--	--	--	--	
117	52.5	-.171	-.221	-.258	-.358	-.513	
118	62.5	-.120	-.176	-.214	-.203	-.470	
119	72.5	.023	.029	.024	.018	-.358	
120	87.4	.114	.131	.137	.141	.066	
121	94.2	.147	.167	.173	.174	.115	
122	3.0	-.075	-.128	-.148	-.204	-.207	-0.153
123	10.0	-.127	-.184	-.223	-.263	-.258	-.209
124	25.0	-.169	-.227	-.268	-.331	-.368	-.331
125	41.0	-.169	-.225	-.258	-.327	-.453	-.442
126	52.5	-.123	-.165	-.196	-.256	-.392	-.486
127	62.5	-.084	-.123	-.149	-.134	-.327	-.456
128	72.5	.024	.058	.054	.040	.008	-.429
129	78.0	.089	.100	.100	.094	.078	-.365
130	85.3	.153	.179	.186	.176	.143	-.230
131	94.1	.192	.220	.227	.202	.150	.005
132	3.0	-.074	-.137	-.179	-.233	-.250	-.195
133	10.0	-.112	-.169	-.209	-.261	-.264	-.215
134	25.0	-.151	-.210	-.250	-.310	-.377	-.349
135	41.0	-.146	-.200	-.233	-.286	-.422	-.431
136	52.5	-.105	-.146	-.173	-.224	-.365	-.488
137	62.5	-.052	-.098	-.102	-.065	-.344	-.447
138	72.5	.130	.143	.149	.144	.117	-.405
139	83.4	.224	.251	.261	.260	.235	-.124
140	94.0	.158	.177	.184	.177	.163	.080
141	3.0	-.018	.117	-.114	-.173	-.225	-.180
142	10.0	-.100	-.158	-.196	-.256	-.301	-.260
143	25.0	-.128	-.185	-.218	-.278	-.408	-.406
144	41.0	-.120	-.163	-.188	-.239	-.345	-.481
145	52.5	-.071	-.105	-.130	-.185	-.317	-.488
146	62.5	-.028	-.070	-.057	-.059	-.147	-.386
147	72.5	.196	.172	.177	.154	.113	-.373
148	84.0	.266	.298	.273	.282	.244	-.136
149	92.0	.186	.225	.223	.165	.114	.008
150	3.0	-.029	-.073	-.115	-.182	-.261	-.245
151	10.0	-.104	-.156	-.189	-.245	-.279	-.269
152	25.0	-.144	-.197	-.234	-.311	-.450	-.458
153	41.0	-.127	-.160	-.180	-.229	-.341	-.488
154	52.5	-.075	-.100	-.121	-.179	-.302	-.477
155	62.5	-.042	-.076	.064	-.043	.044	-.425
156	72.5	.145	.160	.166	.146	.132	-.333
157	84.9	.142	.168	.166	.102	.068	-.043

NACA

[redacted]

TABLE 39

[$\Lambda = 30^\circ$, $\delta_{a_n} = 5.0^\circ$, $\alpha = 2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-0.297	-0.231	-0.168	-0.107	-0.049	
2	6.0	-.309	-.284	-.243	-.195	-.145	
3	15.0	-.294	-.292	-.262	-.221	-.178	
4	27.5	-.297	-.322	-.299	-.262	-.224	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	-.360	-.292	-.221	-.151	-.193	
13	6.0	-.367	-.351	-.306	-.252	-.200	
14	15.0	-.367	-.385	-.352	-.308	-.261	
15	27.5	-.390	-.447	-.425	-.384	-.338	
16	40.0	-.411	-.530	-.525	-.475	-.426	
17	50.0	-.400	-.546	-.588	-.547	-.441	
18	59.0	-.348	-.516	-.604	-.557	-.473	
19	67.5	-.271	-.400	-.624	-.636	-.648	
20	77.5	-.185	-.253	-.374	-.554	-.575	
21	88.0	-.070	-.090	-.144	-.282	-.425	
22	95.3	--	--	--	--	--	
C23	2.0	-.411	-.340	-.256	-.174	-.105	
24	6.0	-.402	-.400	-.346	-.285	-.227	
25	15.0	-.411	-.459	-.424	-.373	-.321	
26	27.5	-.428	-.529	-.507	-.467	-.418	
27	40.0	-.450	-.616	-.627	-.574	-.528	
28	50.0	-.420	-.599	-.677	-.650	-.591	
29	59.0	-.371	-.544	-.717	-.739	-.637	
30	67.5	--	--	--	--	--	
31	77.5	-.135	-.160	-.219	-.559	-.588	
32	88.0	-.010	-.004	-.001	-.187	-.529	
33	95.3	.080	.097	.029	.086	-.113	
D34	2.0	-.503	-.429	-.334	-.237	-.156	
35	15.0	-.437	-.515	-.476	-.419	-.365	
36	27.5	-.443	-.577	-.571	-.523	-.472	
37	40.0	-.463	-.671	-.698	-.642	-.586	
38	50.0	-.427	-.604	-.665	-.665	-.678	
39	59.0	-.331	-.538	-.616	-.620	-.659	
40	67.5	-.321	-.302	-.569	-.603	-.656	
41	77.5	-.116	-.112	-.259	-.415	-.602	
42	87.5	.001	.019	-.018	-.261	-.379	
43	94.2	.087	.105	.091	-.112	-.192	
E44	2.0	-.493	-.418	-.316	-.199	-.088	-0.035
45	6.0	-.466	-.486	-.432	-.345	-.258	-.207
46	15.0	-.446	-.530	-.504	-.433	-.363	-.313
47	27.5	-.452	-.582	-.598	-.542	-.480	-.433
48	40.0	-.466	-.658	-.710	-.655	-.591	-.539
49	50.0	-.432	-.608	-.794	-.736	-.692	-.641
50	59.0	-.367	-.495	-.703	-.621	-.657	-.677
51	67.5	-.268	-.396	-.351	-.391	-.431	-.566
52	77.5	-.122	-.119	-.145	-.244	-.299	-.397
53	88.5	.104	.114	.022	-.164	-.239	-.327
54	95.5	.107	.131	.072	-.121	-.208	-.296
F55	2.0	-.548	-.478	-.373	-.238	-.115	-.059
56	6.0	-.482	-.502	-.447	-.352	-.258	-.206
57	15.0	-.462	-.559	-.530	-.456	-.382	-.330
58	27.5	-.462	-.600	-.621	-.564	-.500	-.449
59	49.0	-.480	-.667	-.739	-.678	-.613	-.560
60	50.0	-.449	-.610	-.743	-.752	-.717	-.665
61	59.0	-.399	-.560	-.723	-.712	-.686	-.707
62	67.5	-.310	-.468	-.563	-.683	-.684	-.688
63	86.5	-.059	-.041	-.034	-.092	-.264	-.466
64	94.6	--	--	--	--	--	--
G65	2.0	-.598	-.531	-.413	-.266	-.121	-.050
66	6.0	-.526	-.577	-.523	-.415	-.299	-.238
67	15.0	-.469	-.566	-.543	-.476	-.388	-.337
68	27.5	-.466	-.622	-.644	-.589	-.511	-.464
69	40.0	-.489	-.671	-.726	-.565	-.580	-.571
70	50.0	-.465	-.618	-.669	-.557	-.581	-.612
71	59.0	-.406	-.579	-.664	-.509	-.560	-.595
72	67.5	-.366	-.596	-.603	-.397	-.505	-.582
73	77.5	-.231	-.210	-.228	-.298	-.409	-.514
74	87.2	-.043	-.016	-.019	-.182	-.201	-.353
75	96.8	.103	.131	.088	-.131	-.142	-.242
H76	2.0	-.558	-.599	-.492	-.338	-.183	-.094
77	6.0	-.503	-.659	-.616	-.498	-.374	-.294
78	15.0	-.426	-.567	-.614	-.537	-.451	-.384
79	27.5	-.410	-.509	-.584	-.473	-.408	-.378
80	40.0	-.427	-.554	-.627	-.532	-.468	-.438
81	50.0	-.402	-.500	-.607	-.512	-.434	-.434
82	59.0	-.343	-.463	-.478	-.363	-.327	-.371
83	67.5	-.306	-.287	-.187	-.246	-.268	-.318
84	88.3	-.019	.038	.020	-.084	-.160	-.244
85	94.2	.063	.099	.063	-.061	-.146	-.240

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.174	0.190	0.187	0.185	0.192	
87	10.0	--	--	--	--	--	
88	25.0	-.050	-.046	-.048	-.049	-.037	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.163	.164	.152	.143	.147	
96	10.0	.017	.019	.012	.008	.019	
97	25.0	-.086	-.101	-.079	-.124	-.118	
98	41.0	-.133	-.170	-.196	-.225	-.224	
99	52.5	-.126	-.172	-.209	-.267	-.285	
100	62.5	-.089	-.125	-.154	-.201	-.339	
101	72.5	-.022	-.049	-.055	-.101	-.249	
102	88.3	.051	.039	.024	-.005	-.116	
103	94.5	--	--	--	--	--	
104	3.0	.177	.163	.141	.121	.118	
105	10.0	.021	.005	-.012	-.026	-.041	
106	25.0	-.105	-.122	-.146	-.170	-.175	
107	41.0	-.141	-.189	-.226	-.280	-.319	
108	52.5	-.132	-.177	-.210	-.269	-.393	
109	62.5	-.086	-.118	-.146	-.195	-.399	
110	72.5	-.005	-.013	-.028	-.055	-.196	
111	85.1	.086	.094	.091	.076	.018	
112	94.6	.172	.187	.191	.181	.129	
113	3.0	.197	.170	.135	.100	.080	
114	10.0	.046	.022	-.003	-.032	-.045	
115	25.0	-.080	-.119	-.151	-.195	-.224	
116	41.0	--	--	--	--	--	
117	52.5	-.115	-.151	-.180	-.213	-.415	
118	62.5	-.209	-.095	-.126	-.179	-.370	
119	72.5	-.014	.032	.030	.022	-.223	
120	87.4	.130	.148	.145	.128	.086	
121	94.2	.154	.175	.173	.138	.073	
122	3.0	.231	.196	-.161	.120	.078	0.087
123	10.0	.048	.022	-.015	-.045	-.089	-.068
124	25.0	-.053	-.093	-.124	-.172	-.222	-.212
125	41.0	-.091	-.131	-.163	-.227	-.323	-.365
126	52.5	-.063	-.092	-.118	-.176	-.260	-.402
127	62.5	-.032	-.050	-.075	-.132	-.210	-.353
128	72.5	.010	-.017	-.030	-.086	-.026	-.315
129	78.0	.110	.146	.138	.101	.068	-.188
130	85.3	.177	.201	.195	.153	.189	.034
131	94.1	.202	.230	.216	.147	.114	.080
132	3.0	.236	.201	.159	.109	.053	.054
133	10.0	.071	.039	.008	-.037	-.064	-.083
134	25.0	-.038	-.074	-.107	-.161	-.221	-.222
135	41.0	-.069	-.078	-.140	-.206	-.297	-.371
136	52.5	-.046	-.071	-.096	-.156	-.236	-.391
137	62.5	.011	-.019	.048	-.112	-.194	-.352
138	72.5	.149	.194	.192	.172	.151	-.205
139	83.4	.242	.272	.271	.248	.234	.135
140	94.0	.165	.188	.178	.127	.094	.064
141	3.0	.279	.250	.122	.151	.083	.061
142	10.0	.081	.051	.019	-.035	-.095	-.116
143	25.0	-.019	-.053	-.086	-.147	-.214	-.259
144	41.0	-.050	-.078	-.112	-.182	-.251	-.388
145	52.5	-.016	-.031	-.060	-.126	-.188	-.350
146	62.5	.020	.003	-.034	-.093	-.133	-.330
147	72.5	.183	.226	.212	.170	.142	-.141
148	84.0	.278	.313	.299	.252	.244	.068
149	92.0	.193	.223	.190	.098	.069	.028
150	3.0	.245	.230	.190	.128	.064	.025
151	10.0	.046	.021	-.015	-.069	-.110	-.125
152	25.0	-.065	-.102	-.144	-.221	-.288	-.342
153	41.0	-.081	-.109	-.144	-.215	-.303	-.468
154	52.5	-.039	-.052	-.080	-.147	-.239	-.442
155	62.5	.003	-.031	-.067	-.141	-.194	-.371
156	72.5	.159	.188	.177	.129	.093	-.199
157	84.9	.136	.160	.127	.098	-.023	-.096

NACA

[redacted]

TABLE 40

[$\Lambda = 30^\circ$, $\delta_{a_n} = 5.0^\circ$, $\alpha = 4^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-0.741	-0.631	-0.535	-0.441	-0.353	
2	6.0	-.570	-.541	-.484	-.424	-.356	
3	15.0	-.431	-.439	-.401	-.361	-.313	
4	27.5	-.399	-.437	-.403	-.362	-.315	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	-.853	-.759	-.633	-.519	-.415	
13	6.0	-.652	-.647	-.586	-.523	-.450	
14	15.0	-.519	-.552	-.507	-.456	-.395	
15	27.5	-.490	-.573	-.543	-.494	-.441	
16	40.0	-.486	-.608	-.609	-.575	-.522	
17	50.0	-.451	-.576	-.590	-.570	-.527	
18	59.0	-.388	-.678	-.647	-.590	-.526	
19	67.5	-.302	-.498	-.795	-.772	-.711	
20	77.5	-.205	-.329	-.510	-.677	-.645	
21	88.0	-.080	-.136	-.212	-.385	-.502	
22	95.3	--	--	--	--	--	
C23	2.0	-.942	-.818	-.657	-.530	-.419	
24	6.0	-.716	-.744	-.674	-.593	-.506	
25	15.0	-.575	-.645	-.588	-.526	-.458	
26	27.5	-.535	-.677	-.648	-.596	-.537	
27	40.0	-.530	-.736	-.731	-.677	-.611	
28	50.0	-.473	-.746	-.746	-.731	-.680	
29	59.0	-.396	-.707	-.745	-.741	-.729	
30	67.5	--	--	--	--	--	
31	77.5	-.163	-.174	-.507	-.677	-.660	
32	88.0	-.029	-.021	-.035	-.462	-.622	
33	95.3	.061	.009	.063	-.026	-.247	
D34	2.0	-1.062	-.916	-.721	-.567	-.442	
35	15.0	-.606	-.740	-.668	-.594	-.519	
36	27.5	-.555	-.763	-.740	-.680	-.611	
37	40.0	-.543	-.844	-.803	-.743	-.689	
38	50.0	-.425	-.815	-.751	-.701	-.752	
39	59.0	-.385	-.673	-.682	-.654	-.725	
40	67.5	-.241	-.263	-.589	-.595	-.725	
41	77.5	-.141	-.120	-.361	-.466	-.670	
42	87.5	-.011	.015	-.151	-.352	-.543	
43	94.2	.060	.100	-.037	-.279	-.379	
E44	2.0	-1.117	-1.009	-.771	-.584	-.449	-0.336
45	6.0	-1.001	-1.031	-.866	-.726	-.600	-.496
46	15.0	-.613	-.823	-.864	-.665	-.577	-.494
47	27.5	-.559	-.802	-.774	-.702	-.631	-.565
48	40.0	-.543	-.859	-.807	-.737	-.712	-.659
49	50.0	-.475	-.804	-.774	-.708	-.694	-.692
50	59.0	-.392	-.433	-.680	-.662	-.683	-.659
51	67.5	-.280	-.283	-.459	-.511	-.613	-.651
52	77.5	-.140	-.117	-.243	-.348	-.441	-.615
53	88.5	.031	.065	-.105	-.274	-.364	-.515
54	95.5	.063	.110	-.047	-.234	-.339	-.469
F55	2.0	-1.305	-1.055	-.813	-.626	-.485	-.369
56	6.0	-.868	-1.075	-.888	-.724	-.600	-.490
57	15.0	-.636	-.874	-.824	-.699	-.598	-.507
58	27.5	-.575	-.826	-.794	-.719	-.648	-.577
59	40.0	-.553	-.879	-.861	-.756	-.726	-.675
60	50.0	-.493	-.800	-.827	-.772	-.705	-.721
61	59.0	-.409	-.432	-.781	-.724	-.701	-.703
62	67.5	-.316	-.305	-.360	-.456	-.623	-.700
63	86.5	-.047	-.025	-.139	-.276	-.416	-.529
64	94.5	--	--	--	--	--	--
G65	2.0	-1.266	-1.112	-.830	-.635	-.484	-.351
66	6.0	-.857	-1.137	-.929	-.750	-.613	-.491
67	15.0	-.642	-1.020	-.897	-.755	-.640	-.536
68	27.5	-.573	-.895	-.865	-.738	-.667	-.616
69	40.0	-.555	-.861	-.799	-.698	-.628	-.651
70	50.0	-.498	-.765	-.759	-.631	-.603	-.661
71	59.0	-.409	-.389	-.536	-.502	-.521	-.659
72	67.5	-.316	-.285	-.394	-.427	-.457	-.637
73	77.5	-.222	-.217	-.269	-.363	-.400	-.586
74	87.2	-.096	-.009	-.121	-.249	-.302	-.421
75	96.8	.058	.010	-.053	-.220	-.305	-.425
H76	2.0	-1.116	-1.170	-.889	-.674	-.515	-.373
77	6.0	-.819	-1.165	-.954	-.783	-.649	-.524
78	15.0	-.546	-.997	-.946	-.812	-.695	-.578
79	27.5	-.479	-.744	-.840	-.596	-.526	-.499
80	40.0	-.471	-.371	-.736	-.642	-.590	-.581
81	50.0	-.430	-.406	-.462	-.461	-.468	-.568
82	59.0	-.325	-.326	-.287	-.348	-.381	-.518
83	67.5	-.215	-.214	-.193	-.288	-.349	-.470
84	88.3	-.016	.004	-.049	-.166	-.253	-.413
85	94.2	.027	.074	-.021	-.143	-.238	-.404

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.384	0.383	0.376	0.369	0.375	
87	10.0	--	--	--	--	--	
88	25.0	.044	.049	.047	.114	.055	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.379	.363	.348	.339	.334	
96	10.0	.161	.155	.146	.140	.145	
97	25.0	.011	.000	-.012	-.024	-.021	
98	41.0	-.063	-.091	-.110	-.136	-.144	
99	52.5	-.070	-.105	-.135	-.179	-.212	
100	62.5	-.051	-.087	-.103	-.146	-.206	
101	72.5	.008	-.023	-.039	-.095	-.134	
102	86.3	.160	.060	.041	-.005	-.045	
103	94.5	--	--	--	--	--	
104	3.0	.399	.367	.344	.322	.312	
105	10.0	.171	.151	.134	.117	.115	
106	25.0	.008	-.016	-.036	-.061	-.069	
107	41.0	-.071	-.106	-.137	-.181	-.200	
108	52.5	-.080	-.114	-.149	-.196	-.279	
109	62.5	-.046	-.072	-.103	-.155	-.238	
110	72.5	.020	-.008	-.012	-.056	-.188	
111	85.1	.088	.110	.086	-.054	.019	
112	94.6	.165	.177	.172	.143	.106	
113	3.0	.418	.377	.343	.306	.284	
114	10.0	.197	.180	.145	.133	.101	
115	25.0	.021	-.008	-.039	-.071	-.123	
116	41.0	--	--	--	--	--	
117	52.5	-.064	-.092	-.131	-.195	-.280	
118	62.5	-.029	-.045	-.080	-.140	-.218	
119	72.5	.031	.047	.022	-.051	-.069	
120	87.4	.133	.158	.136	.082	.058	
121	94.2	.144	.181	.138	.047	.028	
122	3.0	.443	.410	.372	.329	.302	0.278
123	10.0	.203	.186	.153	.114	.091	.082
124	25.0	.044	.022	-.013	-.059	-.099	-.111
125	41.0	-.023	-.047	-.088	-.149	-.206	-.268
126	52.5	-.016	-.030	-.071	-.131	-.183	-.273
127	62.5	.001	.000	-.041	-.102	-.153	-.223
128	72.5	.050	.041	-.001	-.061	-.112	-.176
129	78.0	.068	.103	.037	-.043	-.072	.026
130	85.3	.184	.222	.192	.154	.134	.110
131	94.1	.194	.233	.176	.112	.086	.079
132	3.0	.450	.417	.372	.321	.286	.261
133	10.0	.219	.198	.162	.117	.087	.061
134	25.0	.057	.038	-.001	-.052	-.090	-.120
135	41.0	-.006	-.026	-.073	-.139	-.098	-.267
136	52.5	-.003	-.016	-.062	-.127	-.190	-.276
137	62.5	.047	.041	-.005	-.065	-.121	-.211
138	72.5	.111	.182	.148	.096	-.052	.058
139	83.4	.244	.276	.250	.222	.210	.211
140	94.0	.141	.177	.120	.058	.021	.030
141	3.0	.479	.452	.404	.348	.303	.259
142	10.0	.223	.206	.163	.111	.070	.032
143	25.0	.068	.054	.008	-.047	-.097	-.142
144	41.0	.003	-.008	-.059	-.126	-.193	-.287
145	52.5	.017	.018	-.032	-.094	-.156	-.235
146	62.5	.066	.074	.023	-.042	-.097	-.157
147	72.5	.087	.112	.055	-.005	-.016	.077
148	84.0	.273	.322	.282	.251	.231	.242
149	92.0	.160	.214	.140	.077	.038	.036
150	3.0	.430	.412	.362	.308	.268	.208
151	10.0	.164	.148	.103	.106	.023	-.001
152	25.0	.003	-.022	-.080	-.146	-.193	-.293
153	41.0	.043	-.068	-.126	-.205	-.309	-.386
154	52.5	-.023	-.030	-.082	-.150	-.242	-.365
155	62.5	.026	.012	-.042	-.112	-.200	-.317
156	72.5	.040	.146	.105	.054	.009	-.115
157	84.9	.087	.139	.057	-.021	-.094	-.143

NACA

[redacted]

TABLE 41

[$\Lambda = 30^\circ$, $\delta_{a_n} = 5.0^\circ$, $\alpha = 7^\circ$]

[redacted]

UPPER SURFACE								
Tube	Per-cent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-1.999	-1.378	-1.127	-0.957	-0.811	
2	6.0	-.909	-1.230	-1.007	-.876	-.765	
3	15.0	-.664	-.693	-.632	-.567	-.500	
4	27.5	-.551	-.634	-.582	-.532	-.473	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	-1.976	-1.423	-1.158	-.981	-.830	
13	6.0	-1.122	-1.296	-1.117	-.982	-.858	
14	15.0	-.751	-.952	-1.045	-.869	-.730	
15	27.5	-.644	-.753	-.699	-.648	-.582	
16	40.0	-.591	-.800	-.766	-.701	-.632	
17	50.0	-.525	-.709	-.735	-.697	-.640	
18	59.0	-.446	-.776	-.757	-.689	-.621	
19	67.5	-.321	-.606	-.931	-.868	-.796	
20	77.5	-.243	-.401	-.689	-.810	-.747	
21	88.0	-.106	-.179	-.323	-.566	-.628	
22	95.3	--	--	--	--	--	
C23	2.0	-2.119	-1.431	-1.152	-.962	-.804	
24	6.0	-1.338	-1.390	-1.158	-.998	-.867	
25	15.0	-.828	-1.236	-1.070	-.953	-.842	
26	27.5	-.693	-.831	-1.004	-.877	-.776	
27	40.0	-.624	-.916	-.835	-.758	-.725	
28	50.0	-.534	-.933	-.907	-.841	-.760	
29	59.0	-.434	-.698	-.972	-.910	-.839	
30	67.5	--	--	--	--	--	
31	77.5	-.174	-.208	-.360	-.674	-.858	
32	88.0	-.054	-.112	-.299	-.385	-.461	
33	95.3	.023	-.050	-.172	-.251	-.321	
D34	2.0	-1.926	-1.460	-1.170	-.972	-.810	
35	15.0	-.937	-1.331	-1.131	-.989	-.870	
36	27.5	-.695	-1.251	-1.123	-1.007	-.900	
37	40.0	-.620	-1.152	-1.070	-.963	-.929	
38	50.0	-.524	-1.018	-1.048	-.948	-.908	
39	59.0	-.406	-.401	-.608	-.863	-.845	
40	67.5	-.281	-.221	-.326	-.771	-.883	
41	77.5	-.150	-.121	-.274	-.448	-.861	
42	87.5	-.037	-.054	-.269	-.348	-.603	
43	94.2	.011	-.026	-.260	-.341	-.391	
E44	2.0	-1.861	-1.481	-1.199	-.976	-.817	-0.653
45	6.0	-1.668	-1.443	-1.208	-1.030	-.885	-.738
46	15.0	-1.052	-1.348	-1.134	-.998	-.880	-.753
47	27.5	-.693	-1.254	-1.083	-.947	-.897	-.800
48	40.0	-.607	-1.143	-1.032	-.915	-.873	-.859
49	50.0	-.518	-.738	-.800	-.745	-.853	-.900
50	59.0	-.400	-.526	-.699	-.627	-.795	-.886
51	67.5	-.278	-.332	-.565	-.567	-.714	-.853
52	77.5	-.138	-.133	-.433	-.500	-.626	-.820
53	88.5	-.013	.062	-.259	-.441	-.557	-.689
54	95.5	.017	.080	-.139	-.402	-.514	-.552
F55	2.0	-1.742	-1.526	-1.237	-1.011	-.836	-.650
56	6.0	-1.668	-1.460	-1.211	-1.033	-.885	-.736
57	15.0	-1.153	-1.328	-1.128	-.992	-.884	-.752
58	27.5	-.725	-1.254	-1.056	-.917	-.870	-.801
59	49.0	-.593	-.900	-.808	-.817	-.843	-.786
60	50.0	-.507	-.686	-.635	-.631	-.789	-.905
61	59.0	-.407	-.513	-.547	-.538	-.694	-.901
62	67.5	-.302	-.383	-.485	-.492	-.622	-.876
63	86.5	-.072	-.172	-.364	-.436	-.542	-.845
64	94.6	--	--	--	--	--	--
G65	2.0	-1.505	-1.553	-1.264	-1.029	-.840	-.618
66	6.0	-1.460	-1.450	-1.238	-1.054	-.894	-.728
67	15.0	-1.171	-1.330	-1.130	-1.017	-.890	-.750
68	27.5	-.819	-1.075	-1.061	-.945	-.847	-.803
69	40.0	-.596	-.696	-.845	-.926	-.829	-.861
70	50.0	-.478	-.559	-.687	-.850	-.783	-.903
71	59.0	-.380	-.467	-.554	-.728	-.710	-.923
72	67.5	-.289	-.383	-.386	-.506	-.660	-.931
73	77.5	-.199	-.278	-.302	-.357	-.544	-.918
74	87.2	-.085	-.155	-.200	-.261	-.369	-.707
75	96.8	-.020	-.133	-.201	-.300	-.394	-.735
H76	2.0	-1.330	-.963	-1.079	-.979	-.858	-.644
77	6.0	-1.201	-.906	-1.028	-.928	-.890	-.729
78	15.0	-.886	-.790	-.704	-.832	-.827	-.776
79	27.5	-.593	-.556	-.522	-.516	-.634	-.672
80	40.0	-.461	-.558	-.550	-.516	-.598	-.879
81	50.0	-.371	-.473	-.491	-.476	-.515	-.917
82	59.0	-.284	-.405	-.438	-.449	-.478	-.931
83	67.5	-.225	-.349	-.379	-.422	-.450	-.875
84	88.3	-.095	-.238	-.283	-.353	-.405	-1.004
85	94.2	-.073	-.216	-.261	-.338	-.401	-.882

LOWER SURFACE							
Tube	Per-cent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.592	0.470	0.570	0.652	0.567	
87	10.0	--	--	--	--	--	
88	25.0	.164	.173	--	.166	.174	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.582	.553	.403	.525	.523	
96	10.0	.327	.409	.300	.294	.297	
97	25.0	.134	.123	.108	.100	.104	
98	41.0	.028	.010	-.011	-.026	-.029	
99	52.5	.007	-.021	-.052	-.078	-.097	
100	62.5	.007	-.016	-.047	-.074	-.096	
101	72.5	.053	.031	-.003	-.030	-.034	
102	86.3	.104	.091	.056	.024	.010	
103	94.5	--	--	--	--	--	
104	3.0	.594	.551	.524	.508	.500	
105	10.0	.341	.311	.288	.275	.272	
106	25.0	.134	.110	.085	.069	.066	
107	41.0	.023	-.010	-.044	-.053	-.088	
108	52.5	-.007	-.042	-.083	-.118	-.147	
109	62.5	.007	-.021	-.063	-.101	-.133	
110	72.5	.056	.036	-.003	-.037	-.061	
111	85.1	.104	.094	.058	.026	.013	
112	94.6	.160	.143	.097	.060	.053	
113	3.0	.604	.552	.517	.492	.477	
114	10.0	.361	.323	.293	.312	.260	
115	25.0	.145	.120	.076	.057	.036	
116	41.0	--	--	--	--	--	
117	52.5	.001	-.035	-.090	-.135	-.250	
118	62.5	.016	-.015	-.070	-.113	-.233	
119	72.5	.058	.062	-.001	-.028	-.057	
120	87.4	.137	.135	.079	.056	.032	
121	94.2	.128	.121	.037	.001	-.013	
122	3.0	.625	.574	.538	.503	.484	0.443
123	10.0	.371	.335	.288	.262	.242	.212
124	25.0	.163	.134	.095	.059	.039	.009
125	41.0	.063	.029	-.018	-.065	-.095	-.138
126	52.5	.046	.016	-.033	-.086	-.118	-.142
127	62.5	.040	.017	-.037	-.096	-.131	-.175
128	72.5	.081	.078	.026	-.035	-.064	-.098
129	78.0	.111	.125	.081	.010	-.008	-.029
130	85.5	.162	.183	.134	.087	-.091	.100
131	94.1	.163	.199	.147	.055	.059	.077
132	3.0	.628	.574	.533	.494	.468	.421
133	10.0	.379	.338	.298	.261	.240	.201
134	25.0	.176	.141	.099	.059	.035	.002
135	41.0	.077	.042	-.011	-.064	-.098	-.142
136	52.5	.067	.021	-.034	-.094	-.132	-.197
137	62.5	.081	.063	.007	-.047	-.074	-.120
138	72.5	.163	.167	.118	.088	.075	.082
139	83.4	.239	.248	.201	.178	.183	.189
140	94.0	.121	.125	.023	-.023	-.013	.004
141	3.0	.628	.582	.540	.499	.471	.415
142	10.0	.369	.326	.283	.243	.216	.166
143	25.0	.173	.135	.088	.046	.018	-.027
144	41.0	.074	.028	-.025	-.075	-.111	-.161
145	52.5	.061	.018	-.036	-.086	-.119	-.159
146	62.5	.099	.071	.010	-.034	-.066	-.102
147	72.5	.140	.101	.052	.013	-.002	.020
148	84.0	.290	.273	.249	.225	.220	.214
149	92.0	.136	.091	.044	.020	.022	.021
150	3.0	.559	.517	.480	.442	.416	.369
151	10.0	.280	.238	.200	.162	.143	.110
152	25.0	.077	.022	-.025	-.074	-.102	-.130
153	41.0	-.003	-.069	-.120	-.188	-.251	-.296
154	52.5	-.005	-.071	-.114	-.176	-.237	-.325
155	62.5	.034	-.025	-.060	-.114	-.172	-.251
156	72.5	.061	.014	-.010	-.042	-.074	-.119
157	84.9	.017	-.077	-.107	-.157	-.184	-.172

NACA

[redacted]

TABLE 42

[$\Lambda = 30^\circ$, $\delta_{a_n} = 10.0^\circ$, $\alpha = -2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
A 1	2.0	0.304	0.346	0.362	0.376		
2	6.0	.099	.133	.151	.169		
3	15.0	-.033	-.006	.010	.028		
4	27.5	-.109	-.101	-.089	-.072		
5	40.0	--	--	--	--		
6	50.0	--	--	--	--		
7	59.0	--	--	--	--		
8	67.5	--	--	--	--		
9	77.5	--	--	--	--		
10	87.5	--	--	--	--		
11	96.0	--	--	--	--		
B12	2.0	.294	.331	.345	.357		
13	6.0	.073	.102	.118	.133		
14	15.0	-.065	-.068	-.055	-.039		
15	27.5	-.181	-.189	-.183	-.168		
16	40.0	-.251	-.286	-.289	-.277		
17	50.0	-.273	-.327	-.337	-.317		
18	59.0	-.260	-.351	-.422	-.416		
19	67.5	-.214	-.290	-.342	-.467		
20	77.5	-.159	-.217	-.252	-.321		
21	88.0	-.036	-.060	-.080	-.127		
22	95.3	--	--	--	--		
C23	2.0	.295	.331	.342	.354		
24	6.0	.061	.087	.101	.115		
25	15.0	-.103	-.103	-.093	-.078		
26	27.5	-.210	-.240	-.239	-.225		
27	40.0	-.286	-.354	-.379	-.362		
28	50.0	-.298	-.369	-.456	-.471		
29	59.0	-.265	-.344	-.410	-.537		
30	67.5	--	--	--	--		
31	77.5	-.098	-.120	-.121	-.204		
32	88.0	.015	.018	.018	.028		
33	95.3	.091	.115	.103	.113		
D34	2.0	.246	.288	.302	.311		
35	15.0	-.115	-.121	-.118	-.107		
36	27.5	-.218	-.258	-.276	-.262		
37	40.0	-.294	-.375	-.428	-.438		
38	50.0	-.297	-.386	-.455	-.542		
39	59.0	-.257	-.301	-.390	-.529		
40	67.5	-.210	-.288	-.355	-.485		
41	77.5	-.106	-.057	-.063	-.081		
42	87.5	.024	.029	.037	.068		
43	94.2	.094	.110	.119	.135		
E44	2.0	.304	.372	.392	.396		
45	6.0	.042	.091	.109	.116		
46	15.0	-.124	-.110	-.102	-.098		
47	27.5	-.231	-.250	-.261	-.262		
48	40.0	-.310	-.366	-.402	-.434		
49	50.0	-.317	-.384	-.434	-.542		
50	59.0	-.291	-.346	-.385	-.492		
51	67.5	-.238	-.290	-.287	-.395		
52	77.5	-.179	-.139	-.058	-.052		
53	88.5	.129	-.111	.113	.123		
54	95.5	.100	.116	.120	.128		
F55	2.0	.261	.340	.371	.373		
56	6.0	.035	.094	.114	.123		
57	15.0	-.137	-.117	-.105	-.101		
58	27.5	-.249	-.262	-.262	-.266		
59	49.0	-.336	-.386	-.417	-.441		
60	50.0	-.356	-.424	-.468	-.560		
61	59.0	-.348	-.405	-.440	-.537		
62	67.5	-.321	-.370	-.394	-.423		
63	86.5	-.129	-.124	-.126	-.129		
64	94.6	--	--	--	--		
G65	2.0	.239	.339	.371	.387		
66	6.0	.004	.072	.101	.118		
67	15.0	-.154	-.126	-.110	-.098		
68	27.5	-.267	-.280	-.276	-.269		
69	40.0	-.361	-.421	-.441	-.439		
70	50.0	-.389	-.471	-.549	-.581		
71	59.0	-.369	-.434	-.512	-.606		
72	67.5	-.346	-.387	-.457	-.545		
73	77.5	-.354	-.363	-.425	-.496		
74	87.2	-.185	-.234	-.113	-.071		
75	96.8	.064	.058	.063	.073		
H76	2.0	.270	--	.302	.326		
77	6.0	-.051	-.011	.012	.042		
78	15.0	-.170	-.181	-.179	-.160		
79	27.5	-.271	-.320	-.315	-.275		
80	40.0	-.334	-.418	-.499	-.503		
81	50.0	-.351	-.424	-.519	-.495		
82	59.0	-.310	-.356	-.455	-.472		
83	67.5	-.261	-.319	-.428	-.457		
84	88.3	-.104	-.063	.023	-.006		
85	94.2	.024	.067	.108	.024		

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
86	3.0	-0.380	-0.397	-0.387	-0.352		
87	10.0	--	--	--	--		
88	25.0	-.225	-.260	-.268	-.249		
89	41.0	--	--	--	--		
90	52.5	--	--	--	--		
91	62.5	--	--	--	--		
92	72.5	--	--	--	--		
93	84.0	--	--	--	--		
94	94.0	--	--	--	--		
95	3.0	-.432	-.480	-.483	-.446		
96	10.0	-.294	-.339	-.349	-.300		
97	25.0	-.274	-.338	-.360	-.349		
98	41.0	-.268	-.358	-.426	-.426		
99	52.5	-.231	-.323	-.414	-.474		
100	62.5	-.168	-.231	-.282	-.504		
101	72.5	-.086	-.126	-.149	-.276		
102	86.3	.007	-.009	-.021	-.063		
103	94.5	--	--	--	--		
104	3.0	-.453	-.546	-.569	-.546		
105	10.0	-.321	-.409	-.437	-.407		
106	25.0	-.293	-.382	-.428	-.432		
107	41.0	-.280	-.381	-.494	-.588		
108	52.5	-.237	-.315	-.390	-.597		
109	62.5	-.159	-.204	-.219	-.496		
110	72.5	-.056	-.069	-.077	-.100		
111	83.1	.054	-.038	.060	.057		
112	94.6	.140	.053	.151	.149		
113	3.0	-.452	-.593	-.658	-.640		
114	10.0	-.308	-.407	-.460	-.455		
115	25.0	-.291	-.397	-.478	-.501		
116	41.0	--	--	--	--		
117	52.5	-.224	-.288	-.315	-.578		
118	62.5	-.138	-.160	-.158	-.320		
119	72.5	-.026	-.029	-.023	.018		
120	87.4	.096	.109	.113	.127		
121	94.2	.134	.150	.158	.168		
122	3.0	-.406	-.602	-.705	-.747		
123	10.0	-.314	-.420	-.505	-.530		
124	25.0	-.275	-.360	-.431	-.566		
125	41.0	-.229	-.296	-.327	-.545		
126	52.5	-.164	-.191	-.199	-.298		
127	62.5	-.081	-.103	-.104	-.031		
128	72.5	.007	.021	.035	.073		
129	78.0	.064	.091	.102	.131		
130	85.3	.145	.171	.179	.207		
131	94.1	.179	.204	.211	.231		
132	3.0	-.430	-.613	-.731	-.793		
133	10.0	-.290	-.410	-.521	-.592		
134	25.0	-.242	-.328	-.375	-.576		
135	41.0	-.192	-.250	-.275	-.448		
136	52.5	-.123	-.145	-.152	-.092		
137	62.5	.012	.012	.017	.056		
138	72.5	.163	.182	.187	.221		
139	83.4	.283	.301	.301	.329		
140	94.0	.188	.203	.212	.223		
141	3.0	-.343	-.617	-.658	-.771		
142	10.0	-.258	-.383	-.478	-.665		
143	25.0	-.206	-.287	-.324	-.465		
144	41.0	-.152	-.199	-.212	-.173		
145	52.5	-.090	-.081	-.084	-.066		
146	62.5	.076	.062	.040	.083		
147	72.5	.191	.202	.207	.227		
148	84.0	.314	.329	.309	.339		
149	92.0	.203	.210	.227	.232		
150	3.0	-.311	-.470	-.591	-.784		
151	10.0	-.235	-.335	-.380	-.555		
152	25.0	-.215	-.262	-.295	-.310		
153	41.0	-.150	-.178	-.186	-.192		
154	52.5	-.091	-.072	-.063	-.068		
155	62.5	.058	.064	.069	.066		
156	72.5	.178	.193	.195	.191		
157	84.9	.120	.162	.183	.128		

NACA

[redacted]

TABLE 43

$[\Lambda = 30^\circ, \delta_{a_n} = 10.0^\circ, \alpha = 0^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	0.031	0.102	0.129	0.160	0.194	
2	6.0	-.094	-.055	-.031	-.003	.034	
3	15.0	-.161	-.141	-.124	-.097	-.062	
4	27.5	-.203	-.205	-.194	-.171	-.135	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	.006	.073	.102	.135	.172	
13	6.0	-.134	-.098	-.076	-.045	-.009	
14	15.0	-.221	-.213	-.201	-.170	-.136	
15	27.5	-.283	-.307	-.302	-.276	-.242	
16	40.0	-.330	-.386	-.393	-.381	-.346	
17	50.0	-.334	-.417	-.420	-.393	-.359	
18	59.0	-.316	-.455	-.525	-.482	-.425	
19	67.5	-.254	-.353	-.510	-.618	-.565	
20	77.5	-.190	-.250	-.309	-.449	-.489	
21	88.0	-.049	-.077	-.108	-.187	-.305	
22	95.3	--	--	--	--	--	
C23	2.0	-.014	.056	.087	.128	.161	
24	6.0	-.157	-.127	-.102	-.067	-.031	
25	15.0	-.254	-.264	-.250	-.220	-.184	
26	27.5	-.320	-.373	-.369	-.344	-.305	
27	40.0	-.371	-.474	-.490	-.466	-.434	
28	50.0	-.356	-.473	-.571	-.525	-.493	
29	59.0	-.317	-.427	-.560	-.597	-.567	
30	67.5	--	--	--	--	--	
31	77.5	-.111	-.139	-.140	-.533	-.520	
32	88.0	.003	.004	.015	-.035	-.348	
33	95.3	.084	.012	.102	.118	.052	
D34	2.0	.073	-.026	.012	.055	.092	
35	15.0	-.274	-.298	-.289	-.255	-.219	
36	27.5	-.334	-.406	-.412	-.383	-.348	
37	40.0	-.384	-.507	-.576	-.538	-.493	
38	50.0	-.368	-.484	-.623	-.620	-.595	
39	59.0	-.303	-.396	-.545	-.554	-.622	
40	67.5	-.263	-.400	-.521	-.550	-.580	
41	77.5	-.110	-.074	-.055	-.325	-.496	
42	87.5	.006	.022	.044	-.070	-.143	
43	94.2	.084	.108	.117	.039	-.053	
E44	2.0	-.045	.052	.108	.162	.197	0.218
45	6.0	-.207	-.162	-.123	-.079	-.044	-.015
46	15.0	-.296	-.301	-.267	-.254	-.220	-.183
47	27.5	-.358	-.408	-.416	-.390	-.352	-.311
48	40.0	-.409	-.507	-.568	-.542	-.497	-.447
49	50.0	-.397	-.493	-.587	-.672	-.625	-.568
50	59.0	-.353	-.432	-.527	-.617	-.602	-.615
51	67.5	-.306	-.395	-.462	-.588	-.570	-.576
52	77.5	-.094	-.094	-.068	-.122	-.206	-.315
53	88.5	.112	.075	.105	-.006	-.094	-.204
54	95.5	.097	.076	.118	.034	-.061	-.146
F55	2.0	-.107	.011	.071	.132	.167	.185
56	6.0	-.221	-.170	-.126	-.077	-.040	-.015
57	15.0	-.315	-.316	-.300	-.268	-.233	-.200
58	27.5	-.379	-.423	-.418	-.401	-.365	-.324
59	49.0	-.440	-.535	-.578	-.556	-.514	-.465
60	50.0	-.438	-.549	-.653	-.691	-.643	-.589
61	59.0	-.415	-.492	-.560	-.707	-.674	-.642
62	67.5	-.371	-.424	-.465	-.656	-.630	-.534
63	86.5	-.142	-.132	-.128	-.171	-.235	-.338
64	94.6	--	--	--	--	--	--
G65	2.0	-.158	-.031	.044	.122	.176	.190
66	6.0	-.274	-.217	-.166	-.106	-.058	-.036
67	15.0	-.336	-.341	-.314	-.274	-.234	-.204
68	27.5	-.399	-.454	-.442	-.413	-.375	-.340
69	40.0	-.465	-.580	-.590	-.560	-.517	-.475
70	50.0	-.470	-.616	-.721	-.637	-.530	-.555
71	59.0	-.431	-.530	-.676	-.599	-.521	-.546
72	67.5	-.394	-.502	-.646	-.583	-.495	-.534
73	77.5	-.382	-.473	-.420	-.483	-.382	-.482
74	87.2	-.251	-.116	-.046	-.207	-.252	-.363
75	96.8	.072	.092	-.043	-.058	-.169	-.233
H76	2.0	-.190	-.122	-.260	-.047	.120	.152
77	6.0	-.297	-.303	-.368	-.194	-.130	-.094
78	15.0	-.319	-.377	-.434	-.327	-.276	-.238
79	27.5	-.377	-.476	-.620	-.355	-.287	-.241
80	40.0	-.415	-.539	-.601	-.496	-.438	-.397
81	50.0	-.413	-.508	-.574	-.469	-.429	-.389
82	59.0	-.360	-.448	-.480	-.471	-.418	-.371
83	67.5	-.311	-.423	.009	-.356	-.324	-.300
84	88.3	-.107	-.017	.062	-.120	-.169	-.210
85	94.2	.025	.081	.066	-.099	-.140	-.200

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	-0.071	-0.068	-0.056	-0.045	-0.020	
87	10.0	--	--	--	--	--	
88	25.0	-.134	-.150	-.149	-.141	-.116	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	-.096	-.114	-.111	-.105	-.080	
96	10.0	-.129	-.147	-.145	-.131	-.103	
97	25.0	-.177	-.218	-.229	-.232	-.209	
98	41.0	-.200	-.262	-.296	-.326	-.315	
99	52.5	-.179	-.246	-.294	-.356	-.360	
100	62.5	-.131	-.180	-.211	-.305	-.407	
101	72.5	-.060	-.091	-.106	-.149	-.334	
102	86.3	.028	.003	-.011	-.034	-.161	
103	94.5	--	--	--	--	--	
104	3.0	-.094	-.135	-.141	--	-.120	
105	10.0	-.143	-.188	-.200	-.144	-.179	
106	25.0	-.189	-.248	-.275	-.205	-.270	
107	41.0	-.211	-.283	-.330	-.295	-.404	
108	52.5	-.186	-.243	-.291	-.409	-.478	
109	62.5	-.131	-.166	-.190	-.416	-.510	
110	72.5	-.026	-.044	-.050	-.238	-.284	
111	85.1	.067	.074	.078	-.059	.016	
112	94.6	.163	.175	.184	.076	.158	
113	3.0	-.080	-.143	-.168	-.196	-.177	
114	10.0	-.114	-.170	-.195	-.219	-.198	
115	25.0	-.180	-.250	-.291	-.343	-.329	
116	41.0	--	--	--	--	--	
117	52.5	-.166	-.215	-.243	-.341	-.479	
118	62.5	-.114	-.164	-.202	-.205	-.449	
119	72.5	.000	.014	.027	.019	-.237	
120	87.4	.111	.131	.141	.135	.105	
121	94.2	.145	.167	.173	.158	.125	
122	3.0	-.061	-.120	-.163	-.219	-.215	-0.158
123	10.0	-.117	-.174	-.216	-.270	-.258	-.204
124	25.0	-.157	-.218	-.256	-.338	-.370	-.330
125	41.0	-.157	-.206	-.237	-.306	-.440	-.440
126	52.5	-.107	-.145	-.174	-.247	-.381	-.466
127	62.5	-.094	-.101	-.113	-.069	-.270	-.426
128	72.5	.050	.072	.072	.059	.043	-.393
129	78.0	.101	.120	.128	.116	.106	-.296
130	85.3	.173	.204	.214	.201	.171	-.146
131	94.1	.200	.231	.241	.209	.162	.004
132	3.0	-.051	-.121	-.174	-.247	-.261	-.204
133	10.0	-.095	-.154	-.197	-.267	-.268	-.217
134	25.0	-.132	-.188	-.225	-.301	-.379	-.349
135	41.0	-.119	-.165	-.193	-.255	-.380	-.444
136	52.5	-.069	-.106	-.132	-.194	-.341	-.431
137	62.5	-.013	.027	.067	.073	-.003	-.395
138	72.5	.204	.227	.235	.230	.202	-.293
139	83.4	.317	.354	.364	.361	.325	.033
140	94.0	.188	.211	.214	.197	.180	.120
141	3.0	.025	-.039	-.087	-.169	-.230	-.192
142	10.0	-.063	-.124	-.166	-.245	-.300	-.265
143	25.0	-.098	-.146	-.178	-.247	-.376	-.409
144	41.0	-.080	-.109	-.132	-.189	-.292	-.437
145	52.5	-.026	-.054	-.075	-.140	-.192	-.410
146	62.5	.015	.080	.114	.105	.075	-.236
147	72.5	.225	.253	.257	.230	.205	-.193
148	84.0	.336	.371	.378	.350	.324	.109
149	92.0	.211	.240	.241	.184	.148	.126
150	3.0	.018	-.040	-.090	-.176	-.257	-.268
151	10.0	-.075	-.121	-.163	-.233	-.267	-.272
152	25.0	-.120	-.163	-.199	-.279	-.393	-.456
153	41.0	-.101	-.121	-.140	-.197	-.279	-.485
154	52.5	-.044	-.061	-.085	-.150	-.228	-.437
155	62.5	-.017	.008	-.062	.053	.105	-.272
156	72.5	.205	.230	.232	.171	.201	-.178
157	84.8	.129	.165	.140	.051	.031	-.040

NACA

[redacted]

TABLE 44

[$\Lambda = 30^\circ$, $\delta_{a_n} = 10.0^\circ$, $\alpha = 2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-0.318	--	-0.170	-0.105	-0.045	
2	6.0	-.317	--	-.244	-.194	-.141	
3	15.0	-.297	--	-.263	-.222	-.176	
4	27.5	-.295	--	-.302	-.265	-.221	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	-.375	-0.297	-.222	-.148	-.079	
13	6.0	-.375	-.355	-.306	-.252	-.195	
14	15.0	-.371	-.386	-.354	-.310	-.258	
15	27.5	-.384	-.441	-.423	-.383	-.334	
16	40.0	-.404	-.499	-.506	-.472	-.424	
17	50.0	-.395	-.509	-.497	-.476	-.440	
18	59.0	-.358	-.592	-.587	-.536	-.475	
19	67.5	-.287	-.418	-.695	-.696	-.645	
20	77.5	-.214	-.290	-.408	-.568	-.569	
21	88.0	-.066	-.104	-.155	-.291	-.412	
22	95.3	--	--	--	--	--	
C23	2.0	-.430	-.348	-.257	-.172	-.096	
24	6.0	-.414	-.402	-.346	-.282	-.221	
25	15.0	-.418	-.459	-.424	-.373	-.316	
26	27.5	-.434	-.525	-.506	-.467	-.413	
27	40.0	-.454	-.614	-.612	-.572	-.523	
28	50.0	-.421	-.618	-.645	-.629	-.581	
29	59.0	-.371	-.565	-.674	-.647	-.634	
30	67.5	--	--	--	--	--	
31	77.5	-.142	-.171	-.297	-.574	-.577	
32	88.0	-.015	-.013	-.005	-.320	-.500	
33	95.3	.067	.071	.072	.079	-.135	
D34	2.0	-.528	-.440	-.337	-.232	-.145	
35	15.0	-.448	-.518	-.477	-.417	-.357	
36	27.5	-.455	-.583	-.571	-.524	-.467	
37	40.0	-.473	-.685	-.694	-.641	-.583	
38	50.0	-.437	-.615	-.659	-.659	-.673	
39	59.0	-.371	-.551	-.618	-.619	-.655	
40	67.5	-.315	-.345	-.588	-.626	-.651	
41	77.5	-.125	-.112	-.262	-.396	-.595	
42	87.5	-.005	.013	-.047	-.202	-.348	
43	94.2	.083	.103	.048	-.114	-.172	
E44	2.0	-.561	-.422	-.300	-.202	-.090	-0.028
45	6.0	-.512	-.491	-.416	-.346	-.259	-.202
46	15.0	-.481	-.535	-.489	-.433	-.364	-.311
47	27.5	-.482	-.594	-.582	-.518	-.482	-.431
48	40.0	-.501	-.670	-.701	-.648	-.592	-.537
49	50.0	-.466	-.617	-.701	-.610	-.600	-.614
50	59.0	-.417	-.572	-.676	-.603	-.587	-.583
51	67.5	-.338	-.404	-.601	-.506	-.541	-.575
52	77.5	-.141	-.115	-.111	-.266	-.288	-.341
53	88.5	.081	.098	.036	-.214	-.299	-.379
54	95.5	.088	.109	.069	-.163	-.263	-.334
F55	2.0	-.637	-.486	-.353	-.242	-.121	-.052
56	6.0	-.540	-.511	-.433	-.353	-.260	-.200
57	15.0	-.507	-.565	-.514	-.455	-.382	-.327
58	27.5	-.506	-.615	-.606	-.566	-.500	-.447
59	49.0	-.532	-.702	-.727	-.661	-.616	-.559
60	50.0	-.508	-.674	-.786	-.747	-.722	-.665
61	59.0	-.468	-.617	-.741	-.696	-.709	-.715
62	67.5	-.403	-.527	-.624	-.475	-.589	-.674
63	86.5	-.141	-.113	-.130	-.246	-.305	-.398
64	94.6	--	--	--	--	--	--
G65	2.0	-.734	-.568	-.413	-.275	-.126	-.040
66	6.0	-.612	-.599	-.505	-.419	-.304	-.228
67	15.0	-.532	-.590	-.538	-.474	-.393	-.331
68	27.5	-.530	-.645	-.630	-.589	-.517	-.460
69	40.0	-.561	-.741	-.718	-.621	-.609	-.574
70	50.0	-.545	-.729	-.674	-.592	-.589	-.639
71	59.0	-.492	-.680	-.659	-.582	-.589	-.620
72	67.5	-.455	-.661	-.615	-.489	-.538	-.606
73	77.5	-.440	-.350	-.348	-.375	-.423	-.517
74	87.2	-.147	-.049	-.133	-.277	-.336	-.437
75	96.8	.087	.122	-.005	-.189	-.264	-.360
H76	2.0	-.693	-.657	-.494	-.352	-.201	-.078
77	6.0	-.590	-.703	-.610	-.505	-.383	-.260
78	15.0	-.481	-.610	-.608	-.543	-.454	-.373
79	27.5	-.478	-.558	-.546	-.420	-.349	-.308
80	40.0	-.489	-.639	-.617	-.544	-.482	-.466
81	50.0	-.471	-.585	-.605	-.530	-.473	-.466
82	59.0	-.423	-.544	-.502	-.406	-.372	-.445
83	67.5	-.369	-.419	-.275	-.306	-.309	-.391
84	88.3	-.075	-.027	-.061	-.159	-.212	-.301
85	94.2	.024	.069	-.035	-.141	-.202	-.303

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.184	--	0.191	0.187	0.195	
87	10.0	--	--	--	--	--	
88	25.0	-.042	--	-.044	-.045	-.032	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.173	.171	.157	.145	.148	
96	10.0	.026	.029	.015	.011	.021	
97	25.0	-.079	-.097	-.112	-.121	-.114	
98	41.0	-.128	-.164	-.192	-.221	-.225	
99	52.5	-.122	-.167	-.204	-.262	-.277	
100	62.5	-.088	-.124	-.153	-.199	-.317	
101	72.5	-.027	-.046	-.066	-.102	-.220	
102	86.3	.050	.029	.012	-.017	-.101	
103	94.5	--	--	--	--	--	
104	3.0	.190	.171	.146	.123	.120	
105	10.0	.028	.011	-.008	-.025	-.023	
106	25.0	-.083	-.116	-.142	-.169	-.171	
107	41.0	-.138	-.184	-.221	-.278	-.313	
108	52.5	-.129	-.173	-.207	-.267	-.384	
109	62.5	-.085	-.116	-.146	-.197	-.372	
110	72.5	-.005	-.017	-.030	-.057	-.162	
111	85.1	.081	.089	.087	.073	.030	
112	94.6	.163	.177	.179	.179	.142	
113	3.0	.212	.177	.135	.097	.069	
114	10.0	.057	.029	.002	-.030	-.043	
115	25.0	-.072	-.112	-.147	-.195	-.222	
116	41.0	--	--	--	--	--	
117	52.5	-.109	-.145	-.179	-.231	-.389	
118	64.5	-.065	-.093	-.122	-.178	-.345	
119	72.5	.014	.022	.009	.002	-.073	
120	87.4	.129	.143	.135	.109	.096	
121	94.2	.156	.175	.157	.106	.081	
122	3.0	.274	.213	.161	.121	.075	0.076
123	10.0	.053	.030	-.009	-.047	-.082	-.074
124	25.0	-.041	-.082	-.115	-.166	-.222	-.318
125	41.0	-.074	-.112	-.146	-.209	-.304	-.386
126	52.5	-.041	-.069	-.097	-.153	-.235	-.368
127	62.5	-.009	-.027	-.053	-.109	-.190	-.311
128	72.5	.031	.033	.041	-.014	.043	-.243
129	78.0	.134	.162	.153	.117	.093	-.070
130	85.5	.195	.225	.220	.180	.162	.076
131	94.1	.208	.243	.228	.160	.133	.092
132	3.0	.250	.213	.162	.11[illegible]	.051	.040
133	10.0	.093	.053	.016	-.031	-.084	-.092
134	25.0	-.014	-.054	-.090	-.146	-.213	-.285
135	41.0	-.038	-.073	-.109	-.173	-.234	-.365
136	52.5	-.003	-.026	-.056	-.114	-.185	-.320
137	62.5	.048	.020	-.014	-.076	-.094	-.261
138	72.5	.239	.262	.255	.236	.226	-.006
139	83.4	.329	.371	.366	.342	[illegible]	.250
140	94.0	.249	.222	.198	.123	.110	.122
141	3.0	.317	.279	.227	.169	.09[illegible]	.047
142	10.0	.120	.060	.038	-.016	-.079	-.124
143	25.0	.015	-.017	-.059	-.116	-.176	-.271
144	41.0	-.003	-.027	-.068	-.126	-.177	-.301
145	52.5	.024	.036	-.012	-.067	-.147	-.256
146	62.5	.064	.062	.027	-.027	-.069	-.167
147	72.5	.266	.287	.264	.238	.225	.083
148	84.0	.347	.385	.357	.331	.328	.214
149	92.0	.328	.253	.197	.139	.120	.101
150	3.0	.268	.255	.197	.138	.074	.005
151	10.0	.053	.050	.004	-.048	-.092	-.129
152	25.0	-.035	-.070	-.121	-.187	-.247	-.332
153	41.0	-.048	-.070	-.113	-.170	-.230	-.378
154	52.5	-.002	-.011	-.051	-.107	-.181	-.353
155	62.5	.030	-.002	-.046	-.112	-.128	-.137
156	72.5	.231	.242	.226	.197	.167	.006
157	84.9	.124	.135	.080	.009	-.034	-.067

[redacted]

NACA

TABLE 45

$\left[\Lambda = 30^\circ,\ \delta_{e_n} = 10.0^\circ,\ \alpha = 4^\circ\right]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-0.735	-0.652	-0.535	-0.440	-0.345	
2	6.0	-.567	-.552	-.485	-.421	-.350	
3	15.0	-.430	-.446	-.404	-.358	-.309	
4	27.5	-.392	-.442	-.404	-.362	-.311	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	-.846	-.778	-.629	-.515	-.403	
13	6.0	-.650	-.662	-.587	-.520	-.440	
14	15.0	-.518	-.564	-.510	-.455	-.391	
15	27.5	-.483	-.578	-.544	-.493	-.437	
16	40.0	-.477	-.617	-.612	-.576	-.517	
17	50.0	-.444	-.587	-.602	-.577	-.528	
18	59.0	-.400	-.684	-.648	-.591	-.524	
19	67.5	-.327	-.507	-.795	-.767	-.703	
20	77.5	-.236	-.333	-.514	-.674	-.640	
21	88.0	-.082	-.137	-.224	-.389	-.495	
22	95.3	--	--	--	--	--	
C23	2.0	-.942	-.833	-.651	-.524	-.406	
24	6.0	-.716	-.762	-.669	-.585	-.491	
25	15.0	-.574	-.653	-.587	-.522	-.451	
26	27.5	-.537	-.684	-.648	-.594	-.530	
27	40.0	-.528	-.747	-.736	-.676	-.605	
28	50.0	-.477	-.778	-.761	-.737	-.668	
29	59.0	-.400	-.783	-.754	-.745	-.789	
30	67.5	--	--	--	--	--	
31	77.5	-.162	-.176	-.517	-.679	-.653	
32	88.0	-.030	-.028	-.051	-.464	-.604	
33	95.3	.047	.007	.051	.007	-.224	
D34	2.0	-1.065	-.933	-.713	-.562	-.427	
35	15.0	-.609	-.750	-.666	-.591	-.508	
36	27.5	-.560	-.772	-.741	-.679	-.604	
37	40.0	-.548	-.853	-.803	-.746	-.683	
38	50.0	-.487	-.843	-.749	-.701	-.748	
39	59.0	-.394	-.690	-.693	-.666	-.697	
40	67.5	-.277	-.886	-.603	-.612	-.711	
41	77.5	-.143	-.128	-.380	-.479	-.662	
42	87.5	-.015	.006	-.181	-.368	-.522	
43	94.2	.057	.092	-.063	-.292	-.385	
E44	2.0	-1.175	-1.013	-.777	-.588	-.460	-0.335
45	6.0	-.908	-1.030	-.869	-.717	-.611	-.497
46	15.0	-.644	-.820	-.768	-.678	-.597	-.502
47	27.5	-.584	-.807	-.765	-.702	-.648	-.573
48	40.0	-.568	-.867	-.838	-.744	-.736	-.665
49	50.0	-.502	-.855	-.810	-.715	-.757	-.718
50	59.0	-.421	-.510	-.766	-.678	-.729	-.683
51	67.5	-.310	-.305	-.559	-.545	-.680	-.670
52	77.5	-.152	-.105	-.178	-.316	-.387	-.542
53	88.5	.007	.035	-.110	-.297	-.345	-.495
54	95.5	.058	.024	-.061	-.255	-.322	-.437
F55	2.0	-1.255	-1.063	-.819	-.630	-.500	-.367
56	6.0	-.845	-1.079	-.892	-.724	-.609	-.485
57	15.0	-.670	-.875	-.824	-.701	--	-.507
58	27.5	-.611	-.833	-.792	-.727	-.665	-.582
59	49.0	-.590	-.897	-.881	-.781	-.747	-.677
60	50.0	-.538	-.882	-.863	-.760	-.731	-.718
61	59.0	-.481	-.885	-.842	-.744	-.733	-.696
62	67.5	-.386	-.384	-.495	-.586	-.691	-.678
63	86.5	-.104	-.093	-.227	-.327	-.493	-.604
64	94.6	--	--	--	--	--	--
G65	2.0	-1.467	-1.141	-.844	-.642	-.501	-.343
66	6.0	-.825	-1.152	-.936	-.755	-.626	-.480
67	15.0	-.686	-1.035	-.901	--	-.648	-.525
68	27.5	-.618	-.918	-.894	-.788	-.686	-.605
69	40.0	-.607	-.925	-.824	-.772	-.654	-.641
70	50.0	-.550	-.872	-.815	-.750	-.636	-.642
71	59.0	-.455	-.703	-.681	-.697	-.562	-.641
72	67.5	-.372	-.333	-.535	-.597	-.491	-.623
73	77.5	-.297	-.326	-.420	-.508	-.432	-.567
74	87.2	-.078	-.062	-.248	-.323	-.388	-.488
75	96.8	-.019	.032	-.047	-.177	-.336	-.448
H76	2.0	-1.229	-1.203	-.915	-.689	-.541	-.374
77	6.0	-.855	-1.197	-.969	-.790	-.665	-.519
78	15.0	-.587	-1.063	-.960	-.804	-.706	-.571
79	27.5	-.535	-1.016	-.542	-.450	-.397	-.354
80	40.0	-.511	-.550	-.785	-.653	-.623	-.582
81	50.0	-.462	-.400	-.543	-.488	-.521	-.572
82	59.0	-.369	-.356	-.370	-.387	-.429	-.523
83	67.5	-.264	-.263	-.270	-.338	-.386	-.471
84	88.3	-.058	-.043	-.131	-.231	-.301	-.419
85	94.2	-.041	-.021	-.109	-.212	-.288	-.420

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.353	0.391	0.376	0.372	0.370	
87	10.0	--	--	--	--	--	
88	25.0	.046	.056	.050	.048	.055	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.381	.370	.348	.337	.330	
96	10.0	.163	.161	.146	.141	.142	
97	25.0	.011	.004	-.013	-.021	-.022	
98	41.0	-.060	-.084	-.109	-.132	-.143	
99	52.5	-.070	-.100	-.136	-.174	-.211	
100	62.5	-.047	-.072	-.105	-.142	-.202	
101	72.5	.003	-.017	-.043	-.077	-.131	
102	85.3	.070	.051	.021	-.011	-.056	
103	94.5	--	--	--	--	--	
104	3.0	.401	.375	.342	.321	.306	
105	10.0	.172	.159	.133	.118	.111	
106	25.0	.011	-.009	-.038	-.058	-.071	
107	41.0	-.069	-.101	-.139	-.181	-.217	
108	52.5	-.078	-.110	-.148	-.199	-.278	
109	62.5	-.046	-.069	-.103	-.149	-.236	
110	72.5	.020	.012	-.013	-.051	-.108	
111	85.1	.089	.098	.089	.060	.026	
112	94.6	.160	.172	.170	.142	.107	
113	3.0	.421	.384	.338	.304	.274	
114	10.0	.200	.178	.144	.118	.095	
115	25.0	.023	-.003	-.040	-.077	-.110	
116	41.0	--	--	--	--	--	
117	52.5	-.060	-.086	-.130	-.188	-.278	
118	62.5	-.029	-.044	-.079	-.131	-.215	
119	72.5	.041	.046	.015	-.048	-.066	
120	87.4	.131	.150	.132	.085	.065	
121	94.2	.143	.176	.130	.049	.031	
122	3.0	.447	.413	.375	.332	.307	0.282
123	10.0	.093	.183	.069	.119	.098	.085
124	25.0	.053	.031	-.004	-.049	-.079	-.105
125	41.0	-.013	-.033	-.072	-.131	-.179	-.257
126	52.5	-.002	-.010	-.048	-.105	-.146	-.233
127	62.5	.021	.021	-.014	-.070	-.106	-.179
128	72.5	.065	.062	.023	-.032	-.071	-.056
129	78.0	.085	.173	.141	.048	.061	.119
130	85.3	.202	.242	.215	.183	.177	.171
131	94.1	.196	.244	.193	.135	.128	.126
132	3.0	.458	.424	.379	.327	.294	.256
133	10.0	.230	.206	.171	.126	.098	.067
134	25.0	.074	.054	.017	-.035	-.078	-.111
135	41.0	.018	.000	-.041	-.103	-.150	-.240
136	52.5	.028	.024	-.014	-.073	-.111	-.184
137	62.5	.084	.081	.045	-.013	-.056	-.126
138	72.5	.232	.262	.246	.220	.230	.237
139	83.4	.319	.370	.359	.336	.339	.345
140	94.0	.157	.206	.173	.104	.098	.108
141	3.0	.493	.464	.420	.364	.325	.271
142	10.0	.246	.225	.184	.133	.098	.050
143	25.0	.090	.080	.037	-.015	-.053	-.104
144	41.0	.035	.032	-.011	-.070	-.112	-.159
145	52.5	.055	.069	.029	-.024	-.059	-.098
146	62.5	.104	.096	.081	.024	-.020	-.043
147	72.5	.164	.311	.287	.253	.235	.223
148	84.0	.322	.383	.359	.335	.319	.326
149	92.0	.161	.235	.189	.141	.105	.115
150	3.0	.447	.417	.371	.318	.283	.240
151	10.0	.183	.164	.121	.075	.048	.024
152	25.0	.022	-.003	-.054	-.110	-.153	-.176
153	41.0	-.022	-.038	-.093	-.157	-.220	-.293
154	52.5	.004	.008	-.043	-.101	-.158	-.222
155	62.5	.051	.037	-.018	-.075	-.132	-.189
156	72.5	.169	.236	.196	.149	.111	-.012
157	84.9	.060	.115	.035	-.045	-.082	-.088

NACA

[redacted]

TABLE 46

$\left[\Lambda = 30^\circ,\ \delta_{a_n} = 10.0^\circ,\ \alpha = 7^\circ\right]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	-1.944	-1.380	-1.133	-0.973	-0.806	
2	6.0	-.931	-1.227	-1.012	-.889	-.760	
3	15.0	-.663	-.691	-.633	-.580	-.498	
4	27.5	-.546	-.632	-.580	-.535	-.470	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	-2.004	-1.423	-1.159	-.991	-.820	
13	6.0	-1.135	-1.304	-1.132	-.993	-.850	
14	15.0	-.753	-1.092	-.982	-.855	-.729	
15	27.5	-.639	-.748	-.699	-.658	-.587	
16	40.0	-.581	-.800	-.762	-.697	-.623	
17	50.0	-.514	-.718	-.745	-.705	-.643	
18	59.0	-.455	-.781	-.760	-.693	-.619	
19	67.5	-.368	-.598	-.927	-.866	-.788	
20	77.5	-.274	-.402	-.682	-.811	-.740	
21	88.0	-.105	-.183	-.329	-.564	-.629	
22	95.5	--	--	--	--	--	
C23	2.0	-2.110	-1.434	-1.155	-.974	-.786	
24	6.0	-1.367	-1.399	-1.160	-1.005	-.855	
25	15.0	-.835	-1.238	-1.071	-.959	-.833	
26	27.5	-.692	-.833	-.995	-.884	-.767	
27	40.0	-.623	-.922	-.833	-.750	-.717	
28	50.0	-.533	-.951	-.917	-.837	-.756	
29	59.0	-.433	-.723	-.978	-.913	-.837	
30	67.5	--	--	--	--	--	
31	77.5	-.175	-.202	-.352	-.686	-.850	
32	88.0	-.057	-.112	-.300	-.383	-.443	
33	95.3	.011	-.073	-.189	-.240	-.314	
D34	2.0	-1.890	-1.465	-1.171	-.979	-.791	
35	15.0	-.971	-1.340	-1.134	-.994	-.857	
36	27.5	-.700	-1.255	-1.128	-1.013	-.891	
37	40.0	-.624	-1.144	-1.079	-.975	-.923	
38	50.0	-.528	-1.035	-1.057	-.959	-.905	
39	59.0	-.410	-.451	-.646	-.864	-.841	
40	67.5	-.287	-.239	-.388	-.824	-.880	
41	77.5	-.152	-.125	-.271	-.495	-.873	
42	87.5	-.042	-.048	-.270	-.346	-.609	
43	94.2	.008	-.016	-.260	-.342	-.397	
E44	2.0	-1.840	-1.482	-1.198	-.979	-.814	-0.643
45	6.0	-1.706	-1.441	-1.198	-1.032	-.884	-.729
46	15.0	-1.119	-1.342	-1.137	-.984	-.873	-.742
47	27.5	-.723	-1.253	-1.063	-.947	-.895	-.787
48	40.0	-.621	-1.165	-.962	-.902	-.874	-.838
49	50.0	-.522	-.771	-.688	-.725	-.856	-.859
50	59.0	-.417	-.590	-.593	-.623	-.803	-.819
51	67.5	-.309	-.426	-.535	-.563	-.721	-.806
52	77.5	-.165	-.182	-.385	-.429	-.534	-.668
53	88.5	-.035	-.019	-.372	-.472	-.586	-.714
54	95.5	-.004	-.051	-.322	-.445	-.561	-.650
F55	2.0	-1.742	-1.527	-1.246	-1.018	-.838	-.645
56	6.0	-1.696	-1.463	-1.206	-1.031	-.884	-.728
57	15.0	-1.223	-1.345	-1.124	-.993	-.880	-.742
58	27.5	-.776	-1.253	-1.051	-.926	-.887	-.790
59	40.0	-.631	-1.022	-.811	-.876	-.855	-.845
60	50.0	-.548	-.731	-.626	-.690	-.831	-.882
61	59.0	-.469	-.562	-.526	-.567	-.757	-.856
62	67.5	-.370	-.435	-.474	-.512	-.658	-.816
63	86.5	-.126	-.248	-.406	-.455	-.567	-.810
64	94.5	--	--	--	--	--	--
G65	2.0	-1.454	-1.564	-1.277	-1.044	-.849	-.622
66	6.0	-1.425	-1.484	-1.240	-1.056	-.897	-.725
67	15.0	-1.240	-1.345	-1.157	-1.001	-.887	-.743
68	27.5	-.920	-1.130	-1.070	-.931	-.837	-.795
69	40.0	-.668	-.755	-.952	-.899	-.815	-.842
70	50.0	-.537	-.614	-.774	-.795	-.748	-.879
71	59.0	-.433	-.515	-.661	-.716	-.662	-.905
72	67.5	-.347	-.432	-.440	-.625	-.618	-.913
73	77.5	-.264	-.334	-.336	-.448	-.566	-.894
74	87.2	-.135	-.242	-.284	-.352	-.486	-.794
75	96.8	-.073	-.190	-.220	-.280	-.427	-.731
H76	2.0	-1.188	-1.002	-1.049	-1.012	-.871	-.657
77	6.0	-1.121	-.883	-1.006	-.965	-.913	-.735
78	15.0	-.916	-.799	-.861	-.882	-.877	-.757
79	27.5	-.698	-.476	-.436	-.425	-.482	-.465
80	40.0	-.520	-.602	-.588	-.549	-.676	-.857
81	50.0	-.417	-.522	.534	-.496	-.556	-.889
82	59.0	-.335	-.453	-.483	-.461	-.505	-.909
83	67.5	-.272	-.394	-.425	-.423	-.471	-.864
84	88.3	-.158	-.277	-.324	-.365	-.425	-1.008
85	94.2	-.139	-.255	-.301	-.355	-.421	-.882

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	0.595	0.587	0.573	0.572	0.568	
87	10.0	--	--	--	--	--	
88	25.0	.170	.176	.170	.171	.174	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.585	.555	.536	.529	.520	
96	10.0	.332	.320	.304	.301	.298	
97	25.0	.139	.128	.111	.106	.102	
98	41.0	.034	.015	-.008	-.021	-.031	
99	52.5	.008	-.016	-.049	-.072	-.096	
100	62.5	.013	-.007	-.043	-.067	-.094	
101	72.5	.053	.035	-.001	-.026	-.050	
102	86.3	.104	.091	.053	.018	-.005	
103	94.5	--	--	--	--	--	
104	3.0	.598	.555	.526	.512	.496	
105	10.0	.345	.316	.290	.279	.268	
106	25.0	.139	.114	.087	.073	.062	
107	41.0	.027	-.001	-.041	-.065	-.088	
108	52.5	-.005	-.037	-.079	-.113	-.148	
109	62.5	.008	-.017	-.058	-.096	-.132	
110	72.5	.056	.041	.002	-.033	-.062	
111	85.1	.101	.107	.065	.035	.020	
112	94.6	.149	.147	.034	.059	.048	
113	3.0	.610	.556	.518	.495	.469	
114	10.0	.368	.328	.295	.274	.254	
115	25.0	.150	.117	.078	.054	.030	
116	41.0	--	--	--	--	--	
117	52.5	.008	-.025	-.081	-.126	-.175	
118	62.5	.021	-.005	-.061	-.107	-.148	
119	72.5	.071	.062	.014	-.018	-.051	
120	87.4	.136	.153	.082	.054	.038	
121	94.2	.130	.130	.041	.004	-.007	
122	3.0	.621	.578	.540	.507	.481	0.445
123	10.0	.097	.338	.295	.257	.238	.216
124	25.0	.168	.143	.104	.069	.043	.016
125	41.0	.068	.046	-.001	-.047	-.083	-.121
126	52.5	.054	.041	-.012	-.061	-.096	-.123
127	62.5	.057	.046	-.011	-.061	-.092	-.114
128	72.5	.097	.112	.048	.002	-.026	-.048
129	78.0	.125	.161	.097	.056	.034	.046
130	85.3	.177	.216	.148	.124	.138	.158
131	94.1	.166	.218	.106	.077	.093	.119
132	3.0	.625	.581	.537	.500	.470	.425
133	10.0	.384	.349	.305	.271	.244	.207
134	25.0	.185	.158	.113	.076	.048	.013
135	41.0	.094	.069	.014	-.030	-.069	-.113
136	52.5	.081	.062	.003	-.041	-.073	-.106
137	62.5	.123	.117	.062	.021	-.005	-.036
138	72.5	.240	.244	.200	.190	.191	.208
139	83.4	.322	.344	.309	.307	.320	.335
140	94.0	.073	.147	.059	.049	.069	.097
141	3.0	.629	.591	.548	.512	.482	.432
142	10.0	.381	.342	.298	.264	.233	.190
143	25.0	.187	.157	.112	.077	.048	.014
144	41.0	.099	.066	.017	-.022	-.052	-.081
145	52.5	.099	.067	.023	-.010	-.036	-.051
146	62.5	.141	.115	.075	.039	.008	-.011
147	72.5	.165	.175	.157	.138	.170	.180
148	84.0	.328	.326	.313	.307	.310	.320
149	92.0	.154	.128	.096	.084	.088	.106
150	3.0	.551	.520	.482	.450	.406	.383
151	10.0	.280	.253	.214	.182	.159	.132
152	25.0	.084	.042	-.001	-.042	-.074	-.097
153	41.0	.011	-.042	-.086	-.139	-.190	-.236
154	52.5	.015	-.032	-.067	-.114	-.155	-.193
155	62.5	.066	.022	-.011	-.053	-.096	-.146
156	72.5	.084	.129	.128	.107	.100	.065
157	84.9	-.002	-.068	-.089	-.127	-.135	-.111

NACA

[redacted]

TABLE 47

$[\Lambda = 45^\circ, \delta_{a_R} = -9.4^\circ, \alpha = -2^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	0.226	0.248	0.255	0.267	0.284	
2	6.0	.096	.110	.120	.134	.154	
3	15.0	.008	.020	.031	.045	.066	
4	27.5	-.019	-.008	.003	.018	.040	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	-.029	-.025	-.024	-.014	-.084	
15	27.5	-.097	-.099	-.098	-.087	-.066	
16	40.0	-.141	-.153	-.163	-.158	-.137	
17	50.0	-.152	-.168	-.189	-.191	-.178	
18	59.0	-.119	-.136	-.152	-.150	-.134	
19	67.5	--	--	--	--	--	
20	77.5	--	--	--	--	--	
21	88.0	--	--	--	--	--	
22	95.3	--	--	--	--	--	
C23	2.0	.231	.232	.225	.228	.236	
24	6.0	.067	.066	.059	.064	.075	
25	15.0	-.048	-.057	-.068	-.064	-.050	
26	27.5	-.121	-.140	-.155	-.154	-.141	
27	40.0	-.174	-.198	-.230	-.234	-.219	
28	50.0	-.177	-.199	-.257	-.297	-.277	
29	59.0	-.178	-.215	-.265	-.298	-.299	
30	67.5	-.141	-.167	-.213	-.250	-.271	
31	77.5	-.101	-.125	-.158	-.196	-.253	
32	88.0	-.033	-.053	-.084	-.111	-.181	
33	95.3	.033	.023	-.026	-.064	-.124	
D34	2.0	.215	.201	.186	.182	.180	
35	15.0	.028	-.068	-.092	-.103	-.101	
36	27.5	-.121	-.145	-.180	-.203	-.200	
37	40.0	-.174	-.209	-.252	-.293	-.313	
38	50.0	-.183	-.215	-.259	-.309	-.365	
39	59.0	-.135	-.151	-.204	-.275	-.373	
40	67.5	-.127	-.135	-.165	-.175	-.319	
41	77.5	-.065	-.083	-.098	-.098	-.187	
42	87.5	.001	-.004	-.013	-.010	-.070	
43	94.2	.051	.047	.043	.048	.017	
E44	2.0	.268	.251	.241	.233	.216	
45	6.0	.066	.061	.048	.037	.019	
46	15.0	-.032	-.063	-.084	-.100	-.126	
47	27.5	-.096	-.135	-.163	-.181	-.224	
48	40.0	-.141	-.184	-.220	-.237	-.312	
49	50.0	-.139	-.179	-.212	-.226	-.311	
50	59.0	-.118	-.149	-.174	-.186	-.229	
51	67.5	-.081	-.084	-.105	-.108	-.101	
52	77.5	.004	-.017	-.019	-.014	.009	
53	88.5	.172	.161	.155	.157	.182	
54	95.5	.099	.101	.104	.110	.129	
F55	2.0	.266	.244	.235	.232	.201	
56	6.0	.104	.078	.064	.059	.027	
57	15.0	-.015	-.046	-.070	-.079	-.122	
58	27.5	-.075	-.112	-.139	-.153	-.201	
59	49.0	-.111	-.152	-.182	-.200	-.249	
60	50.0	-.095	-.129	-.153	-.156	-.178	
61	59.0	-.050	-.073	-.084	-.081	-.065	
62	67.5	-.046	.017	.014	.017	.039	
63	86.5	--	--	--	--	--	
64	94.6	--	--	--	--	--	
G65	2.0	.305	.289	.280	.278	.273	
66	6.0	.137	.118	.107	.105	.103	
67	15.0	.023	.001	-.012	-.017	-.018	
68	27.5	-.039	-.062	-.077	-.081	-.080	
69	40.0	-.072	-.098	-.113	-.118	-.116	
70	50.0	-.065	-.088	-.102	-.105	-.103	
71	59.0	-.022	-.047	-.061	-.063	-.054	
72	67.5	-.002	-.004	.018	.022	.033	
73	77.5	.169	.165	.169	.174	.175	
74	87.2	--	--	--	--	--	
75	96.8	.090	.088	.083	.089	.098	
H76	2.0	.218	.201	.194	.194	.199	
77	6.0	.059	.038	.024	.020	.021	
78	15.0	-.026	-.051	-.070	-.077	-.080	
79	27.5	-.079	-.105	-.124	-.133	-.137	
80	40.0	-.106	-.132	-.150	-.161	-.170	
81	50.0	-.096	-.114	-.123	-.122	-.130	
82	59.0	-.056	-.077	-.087	-.090	-.097	
83	67.5	-.032	-.013	-.015	-.003	-.018	
84	88.3	.106	.115	.130	.144	.162	
85	94.2	.095	.101	.116	.129	.146	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	-0.303	-0.292	-0.261	-0.236	-0.191	
87	10.0	-.105	-.096	-.078	-.060	-.035	
88	25.0	-.158	-.164	-.156	-.138	-.105	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	-.366	-.386	-.353	-.327	-.282	
96	10.0	-.243	-.246	-.201	-.166	-.149	
97	25.0	-.205	-.229	-.238	-.231	-.200	
98	41.0	-.205	-.238	-.265	-.257	-.231	
99	52.5	-.191	-.235	-.290	-.290	-.267	
100	62.5	--	--	--	--	--	
101	72.5	--	--	--	--	--	
102	86.3	--	--	--	--	--	
103	94.5	--	--	--	--	--	
104	3.0	-.409	-.437	-.431	-.412	-.361	
105	10.0	-.263	-.294	-.311	-.297	-.268	
106	25.0	-.228	-.266	-.300	-.303	-.276	
107	41.0	-.221	-.265	-.334	-.359	-.333	
108	52.5	-.195	-.239	-.304	-.378	-.365	
109	62.5	-.151	-.186	-.234	-.339	-.361	
110	72.5	-.091	-.118	-.151	-.231	-.212	
111	85.1	-.020	-.032	-.086	-.086	-.186	
112	94.5	.034	.025	.009	-.011	-.088	
113	3.0	-.424	-.479	-.512	-.507	-.449	
114	10.0	-.256	-.280	-.314	-.355	-.323	
115	25.0	-.233	-.274	-.310	-.360	-.344	
116	41.0	-.220	-.259	-.307	-.425	-.430	
117	52.5	-.185	-.217	-.249	-.326	-.448	
118	62.5	-.128	-.149	-.164	-.170	-.386	
119	72.5	-.056	-.066	-.075	-.068	-.173	
120	87.4	.033	.036	.026	.033	.012	
121	94.2	.053	.054	.050	.060	.019	
122	3.0	-.403	-.425	-.462	-.494	-.470	
123	10.0	-.274	-.299	-.308	-.347	-.350	
124	25.0	-.228	-.256	-.276	-.323	-.388	
125	41.0	-.214	-.238	-.251	-.238	-.400	
126	52.5	-.187	-.203	-.212	-.186	-.259	
127	62.5	-.154	-.168	-.179	-.170	-.147	
128	72.5	-.075	-.084	-.088	-.079	-.054	
129	78.0	-.038	-.042	-.043	-.034	-.010	
130	85.3	.015	.013	.011	.020	.038	
131	94.1	.064	.063	.060	.066	.082	
132	3.0	-.429	-.461	-.475	-.501	-.507	
133	10.0	-.284	-.306	-.317	-.324	-.377	
134	25.0	-.243	-.267	-.265	-.264	-.381	
135	41.0	-.231	-.258	-.279	-.266	-.321	
136	52.5	-.212	-.240	-.256	-.250	-.233	
137	62.5	-.181	-.206	-.230	-.221	-.167	
138	72.5	-.158	-.181	-.214	-.227	-.172	
139	83.4	--	--	--	--	--	
140	94.0	--	--	--	--	--	
141	3.0	-.511	-.638	-.592	-.549	-.552	
142	10.0	-.329	-.362	-.338	-.329	-.335	
143	25.0	-.267	-.302	-.368	-.381	-.358	
144	41.0	-.244	-.282	-.320	-.402	-.360	
145	52.5	-.220	-.249	-.265	-.329	-.366	
146	62.5	-.165	-.185	-.199	-.173	-.235	
147	72.5	-.142	-.150	-.152	-.138	-.161	
148	84.0	-.071	-.065	-.055	-.039	-.037	
149	92.0	--	--	--	--	--	
150	3.0	-.531	-.601	-.630	-.664	-.666	
151	10.0	-.283	-.313	-.308	-.356	-.389	
152	25.0	-.232	-.270	-.301	-.332	-.409	
153	41.0	--	--	--	--	--	
154	52.5	-.158	-.167	-.162	-.136	-.111	
155	62.5	-.102	-.102	-.089	-.066	-.023	
156	72.5	-.073	-.066	-.049	-.029	.008	
157	84.9	.060	.068	.082	.104	.124	

NACA

[redacted]

TABLE 48

[$\Lambda = 45^\circ$, $\delta_{e_n} = -9.4^\circ$, $\alpha = 2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	-0.177	-0.138	-0.108	-0.067	-0.031	
2	6.0	-.184	-.164	-.142	-.066	-.075	
3	15.0	-.175	-.166	-.150	-.123	-.092	
4	27.5	-.161	-.158	-.145	-.119	-.093	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	98.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	-.230	-.233	-.225	-.196	-.207	
15	27.5	-.244	-.261	-.255	-.225	-.192	
16	40.0	-.258	-.290	-.307	-.281	-.240	
17	50.0	-.247	-.291	-.322	-.300	-.270	
18	59.0	-.212	-.265	-.306	-.291	-.259	
19	67.5	--	--	--	--	--	
20	77.5	--	--	--	--	--	
21	88.0	--	--	--	--	--	
22	95.3	--	--	--	--	--	
C23	2.0	-.230	-.255	-.225	-.179	-.129	
24	6.0	-.265	-.273	-.263	-.225	-.188	
25	15.0	-.270	-.294	-.301	-.269	-.248	
26	27.5	-.281	-.321	-.346	-.322	-.284	
27	40.0	-.297	-.345	-.404	-.387	-.354	
28	50.0	-.276	-.334	-.421	-.403	-.381	
29	59.0	-.257	-.311	-.421	-.453	-.427	
30	67.5	-.220	-.275	-.369	-.415	-.390	
31	77.5	-.138	-.183	-.277	-.385	-.386	
32	88.0	-.062	-.084	-.128	-.217	-.280	
33	95.3	-.005	-.019	-.053	-.101	-.157	
D34	2.0	-.336	-.344	-.329	-.268	-.215	
35	15.0	-.290	-.353	-.371	-.346	-.311	
36	27.5	-.290	-.344	-.414	-.388	-.384	
37	40.0	-.304	-.365	-.484	-.491	-.460	
38	50.0	-.298	-.340	-.438	-.533	-.521	
39	59.0	-.230	-.283	-.377	-.425	-.486	
40	67.5	-.220	-.283	-.367	-.461	-.479	
41	77.5	-.089	-.092	-.075	-.322	-.453	
42	87.5	-.012	-.013	-.004	-.004	-.094	
43	94.2	.048	.052	.057	.054	-.009	
E44	2.0	-.342	-.398	-.444	-.384	-.307	
45	6.0	-.307	-.365	-.415	-.365	-.331	
46	15.0	-.283	-.343	-.421	-.409	-.363	
47	27.5	-.271	-.334	-.432	-.470	-.429	
48	40.0	-.271	-.333	-.418	-.532	-.525	
49	50.0	-.240	-.297	-.379	-.483	-.539	
50	59.0	-.204	-.262	-.322	-.461	-.512	
51	67.5	-.139	-.147	-.113	-.168	-.434	
52	77.5	-.034	-.035	-.022	-.027	-.142	
53	88.5	.152	.165	.168	.112	.004	
54	95.5	.102	.113	.119	.114	.077	
F55	2.0	-.341	-.411	-.482	-.447	-.357	
56	6.0	-.292	-.358	-.432	-.429	-.369	
57	15.0	-.269	-.333	-.415	-.418	-.405	
58	27.5	-.251	-.313	-.399	-.495	-.467	
59	49.0	-.243	-.300	-.380	-.495	-.554	
60	50.0	-.192	-.237	-.264	-.361	-.533	
61	59.0	-.119	-.141	-.137	-.137	-.302	
62	67.5	-.022	-.026	-.015	-.006	-.157	
63	86.5	--	--	--	--	--	
64	94.6	--	--	--	--	--	
G65	2.0	-.280	-.359	-.455	-.513	-.460	
66	6.0	-.258	-.324	-.400	-.473	-.481	
67	15.0	-.225	-.278	-.336	-.382	-.460	
68	27.5	-.207	-.251	-.291	-.310	-.428	
69	40.0	-.191	-.227	-.261	-.228	-.371	
70	50.0	-.156	-.189	-.219	-.175	-.212	
71	59.0	-.107	-.124	-.090	-.075	-.035	
72	67.5	.001	.006	.007	.020	.045	
73	77.5	.135	.142	.143	.144	.088	
74	87.2	--	--	--	--	--	
75	96.8	.115	.122	.127	.139	.167	
H76	2.0	-.257	-.338	-.425	-.445	-.475	
77	6.0	-.233	-.294	-.368	-.409	-.447	
78	15.0	-.202	-.248	-.302	-.337	-.365	
79	27.5	-.189	-.221	-.252	-.272	-.281	
80	40.0	-.182	-.204	-.226	-.240	-.216	
81	50.0	-.147	-.165	-.192	-.189	-.127	
82	59.0	-.119	-.144	-.098	-.035	-.009	
83	67.5	.034	.054	.066	.075	.083	
84	88.3	.122	.143	.166	.185	.191	
85	94.2	.120	.138	.173	--	.187	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	0.103	0.111	0.123	0.128	0.146	
87	10.0	.014	.023	.033	.041	.056	
88	25.0	-.015	-.013	-.004	.003	.021	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.094	.094	.097	.097	.110	
96	10.0	-.012	-.018	-.014	-.011	.006	
97	25.0	-.060	-.067	-.072	-.072	-.058	
98	41.0	-.096	-.112	-.121	-.126	-.116	
99	52.5	-.095	-.115	-.135	-.148	-.144	
100	62.5	--	--	--	--	--	
101	72.5	--	--	--	--	--	
102	86.3	--	--	--	--	--	
103	94.5	--	--	--	--	--	
104	3.0	.099	.088	.114	.065	.071	
105	10.0	-.009	-.021	-.034	-.044	-.035	
106	25.0	-.075	-.093	-.108	-.122	-.119	
107	41.0	-.108	-.130	-.156	-.179	-.192	
108	52.5	-.105	-.131	-.159	-.188	-.213	
109	62.5	-.081	-.101	-.125	-.153	-.194	
110	72.5	-.038	-.055	-.075	-.101	-.141	
111	85.1	.017	.012	-.005	-.026	-.060	
112	94.6	.060	.056	.041	.013	-.019	
113	3.0	.117	.105	.083	.053	.036	
114	10.0	.014	.001	-.015	-.037	-.047	
115	25.0	-.069	-.068	-.109	-.135	-.153	
116	41.0	-.106	-.129	-.151	-.179	-.224	
117	52.5	-.098	-.128	-.140	-.165	-.213	
118	62.5	-.066	-.078	-.090	-.106	-.157	
119	72.5	-.009	-.011	-.017	-.018	-.037	
120	87.4	.063	.068	.069	.067	.056	
121	94.2	.074	.079	.082	.084	.065	
122	3.0	.141	.150	.141	.121	.099	
123	10.0	.011	.011	-.003	-.018	-.036	
124	25.0	-.064	-.067	-.079	-.090	-.108	
125	41.0	-.098	-.104	-.113	-.118	-.133	
126	52.5	-.107	-.104	-.109	-.107	-.103	
127	62.5	-.088	-.092	-.103	-.101	-.104	
128	72.5	-.047	-.035	-.028	-.024	-.024	
129	78.0	.000	.002	.002	.010	.009	
130	85.3	.053	.054	.055	.065	.068	
131	94.1	.086	.093	.092	.102	.103	
132	3.0	.131	.146	.148	.130	.103	
133	10.0	.008	.015	.010	-.001	-.021	
134	25.0	-.073	-.073	-.076	-.081	-.089	
135	41.0	-.116	-.121	-.126	-.126	-.135	
136	52.5	-.132	-.140	-.149	-.145	-.146	
137	62.5	-.123	-.132	-.146	-.143	-.135	
138	72.5	-.120	-.134	-.153	-.155	-.146	
139	83.4	--	--	--	--	--	
140	94.0	--	--	--	--	--	
141	3.0	.116	.143	.162	.168	.144	
142	10.0	-.021	-.014	-.012	-.012	-.034	
143	25.0	-.090	-.096	-.104	-.106	-.130	
144	41.0	-.136	-.150	-.165	-.167	-.192	
145	52.5	-.143	-.156	-.172	-.170	-.184	
146	62.5	-.124	-.140	-.151	-.148	-.159	
147	72.5	-.116	-.124	-.134	-.131	-.118	
148	84.0	-.122	-.103	-.090	-.076	-.051	
149	92.0	--	--	--	--	--	
150	3.0	.087	.102	.113	.127	.143	
151	10.0	-.049	-.055	-.062	-.056	-.042	
152	25.0	-.111	-.133	-.158	-.170	-.177	
153	41.0	--	--	--	--	--	
154	52.5	-.114	-.127	-.141	-.148	-.161	
155	62.5	-.078	-.085	-.097	-.102	-.116	
156	72.5	-.067	-.062	-.064	-.048	-.020	
157	84.9	.077	.093	.112	.131	.148	

NACA

[redacted]

TABLE 49

[$\Lambda = 45^\circ$, $\delta_{a_R} = -9.4^\circ$, $\alpha = 7^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	-1.121	-1.152	-0.998	-0.877	-0.785	
2	6.0	-.605	-.600	-.540	-.515	-.481	
3	15.0	-.426	-.432	-.394	-.357	-.319	
4	27.5	-.349	-.365	-.311	-.299	-.266	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	-.511	-.533	-.487	-.453	-.413	
15	27.5	-.436	-.481	-.461	-.425	-.390	
16	40.0	-.402	-.481	-.463	-.428	-.393	
17	50.0	-.387	-.471	-.478	-.448	-.418	
18	59.0	-.326	-.430	-.476	-.439	-.410	
19	67.5	--	--	--	--	--	
20	77.5	--	--	--	--	--	
21	88.0	--	--	--	--	--	
22	95.3	--	--	--	--	--	
C23	2.0	-1.402	-1.420	-1.158	-1.051	-.972	
24	6.0	-1.074	-1.135	-1.125	-1.007	-.901	
25	15.0	-.571	-.644	-.562	-.506	-.456	
26	27.5	-.480	-.582	-.570	-.527	-.486	
27	40.0	-.446	-.562	-.599	-.564	-.523	
28	50.0	-.473	-.483	-.566	-.573	-.536	
29	59.0	-.339	-.427	-.641	-.600	-.560	
30	67.5	-.260	-.320	-.580	-.550	-.516	
31	77.5	-.195	-.236	-.510	-.548	-.517	
32	88.0	-.118	-.139	-.279	-.419	-.427	
33	95.3	-.158	-.012	-.085	-.209	-.230	
D34	2.0	-1.298	-1.451	-1.267	-1.135	-1.027	
35	15.0	-.747	-.800	-.904	-.917	-.855	
36	27.5	-.476	-.621	-.667	-.613	-.571	
37	40.0	-.430	-.325	-.734	-.684	-.636	
38	50.0	-.373	-.433	-.774	-.723	-.682	
39	59.0	-.422	-.301	-.506	-.698	-.684	
40	67.5	-.201	-.249	-.360	-.685	-.686	
41	77.5	-.129	-.155	-.217	-.364	-.437	
42	87.5	-.046	-.053	-.121	-.231	-.261	
43	94.2	-.006	-.014	-.088	-.186	-.211	
E44	2.0	-1.104	-1.227	--	-1.198	-1.077	
45	6.0	-1.070	-1.160	-1.287	-1.166	-1.055	
46	15.0	-.946	-1.066	-1.164	-1.051	-.957	
47	27.5	-.521	-.594	-.902	-.933	-.880	
48	40.0	-.361	-.413	-.778	-.723	-.667	
49	50.0	-.303	-.339	-.520	-.801	-.751	
50	59.0	-.236	-.259	-.261	-.555	-.793	
51	67.5	-.157	-.176	-.193	-.303	-.574	
52	77.5	-.071	-.087	-.145	-.245	-.326	
53	88.5	.053	.020	-.094	-.200	-.284	
54	95.5	.044	.023	-.066	-.163	-.250	
F55	2.0	-1.103	-1.284	--	-1.246	-1.126	
56	6.0	-1.074	-1.263	--	-1.186	-1.073	
57	15.0	-.826	-1.055	-1.191	-1.084	-.987	
58	27.5	-.546	-.535	-1.098	-1.004	-.928	
59	49.0	-.385	-.437	-.674	-.892	-.878	
60	50.0	-.273	-.315	-.205	-.406	-.744	
61	59.0	-.177	-.194	-.161	-.246	-.640	
62	67.5	-.085	-.089	-.111	-.205	-.355	
63	86.5	--	--	--	--	--	
64	94.5	--	--	--	--	--	
G65	2.0	-.854	-.988	-1.199	-1.240	-1.117	
66	6.0	-.831	-.960	-1.169	-1.152	-1.055	
67	15.0	-.754	-.931	-1.039	-1.098	-.989	
68	27.5	-.534	-.501	-.739	-.855	-.861	
69	40.0	-.349	-.375	-.518	-.560	-.669	
70	50.0	-.244	-.318	-.393	-.528	-.590	
71	59.0	-.163	-.208	-.192	-.230	-.528	
72	67.5	-.098	-.126	-.132	-.173	-.450	
73	77.5	-.033	-.038	-.081	-.179	-.335	
74	87.2	--	--	--	--	--	
75	96.8	.066	.042	.085	.065	-.017	
H76	2.0	-.603	-.492	-.429	-.399	-.421	
77	6.0	-.559	-.479	-.423	-.388	-.413	
78	15.0	-.519	-.452	-.410	-.385	-.396	
79	27.5	-.411	-.411	-.357	-.333	-.342	
80	40.0	-.305	-.438	-.381	-.360	-.370	
81	50.0	-.221	-.404	-.394	-.368	-.353	
82	59.0	-.158	-.336	-.391	-.373	-.340	
83	67.5	-.105	-.234	-.368	-.364	-.330	
84	88.3	-.019	-.002	-.217	-.243	-.298	
85	94.2	.008	-.020	-.126	-.169	-.267	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	0.407	0.409	0.414	0.422	0.434	
87	10.0	.166	.178	.185	.194	.205	
88	25.0	.153	.161	.187	.179	.194	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	72.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.400	.393	.382	.391	.400	
96	10.0	.220	.215	.212	.216	.226	
97	25.0	.113	.112	.108	.113	.132	
98	41.0	.041	.038	.035	.048	.047	
99	52.5	.020	.017	.009	.006	.013	
100	62.5	--	--	--	--	--	
101	72.5	--	--	--	--	--	
102	86.3	--	--	--	--	--	
103	94.5	--	--	--	--	--	
104	3.0	.407	.391	.378	.373	.375	
105	10.0	.232	.220	.207	.204	.207	
106	25.0	.100	.091	.079	.075	.078	
107	41.0	.030	.015	.001	-.010	-.007	
108	52.5	.003	-.010	-.030	-.042	-.042	
109	62.5	.005	-.004	-.025	-.038	-.039	
110	72.5	.028	.021	-.001	-.017	-.018	
111	85.1	.073	.063	.045	.020	.021	
112	94.6	.094	.091	.052	.019	.021	
113	3.0	.414	.398	.376	.363	.357	
114	10.0	.252	.240	.219	.207	.203	
115	25.0	.106	.095	.074	.060	.056	
116	41.0	.028	.016	-.008	-.027	-.034	
117	52.5	.003	-.011	-.036	-.062	-.069	
118	62.5	.007	-.002	-.025	-.052	-.058	
119	72.5	.038	.031	.011	-.019	-.026	
120	87.4	.097	.079	.073	.026	.023	
121	94.2	.063	.057	.028	-.021	-.033	
122	3.0	.427	.420	.396	.385		
123	10.0	.257	.246	.208	.208		
124	25.0	.116	.110	.090	.073		
125	41.0	.036	.029	.013	-.008		
126	52.5	.003	.003	-.014	-.036		
127	62.5	-.018	-.024	-.044	-.073		
128	72.5	.015	.010	-.008	-.035		
129	78.0	.028	.023	.005	-.022		
130	85.3	.063	.057	.037	.011		
131	94.1	.076	.067	.036	.001		
132	3.0	.427	.420	.394	.377		
133	10.0	.257	.251	.227	.208		
134	25.0	.109	.105	.088	.068		
135	41.0	.024	.017	.000	-.022		
136	52.5	-.018	-.031	-.048	-.072		
137	62.5	-.042	-.054	-.074	-.101		
138	72.5	-.061	-.077	-.100	-.132		
139	83.4	--	--	--	--		
140	94.0	--	--	--	--		
141	3.0	.417	.418	.398	.376		
142	10.0	.232	.231	.246	.184		
143	25.0	.089	.085	.070	.042		
144	41.0	-.005	-.014	-.029	-.058		
145	52.5	-.042	-.051	-.064	-.093		
146	62.5	-.046	-.064	-.059	-.087		
147	72.5	-.066	-.081	-.096	-.131		
148	84.0	-.053	-.071	-.068	-.095		
149	92.0	--	--	--	--		
150	3.0	.305	.305	.310	.302		
151	10.0	.137	.133	.134	.121		
152	25.0	.010	-.010	-.024	-.044		
153	41.0	--	--	--	--		
154	52.5	-.065	-.092	-.123	-.153		
155	62.5	-.052	-.078	-.108	-.131		
156	72.5	-.072	-.090	-.124	-.144		
157	84.9	.005	.022	-.037	-.075		

NACA

[redacted]

TABLE 50

$\left[\Lambda = 45^{\circ},\ \delta_{a_n} = 10.0^{\circ},\ \alpha = -2^{\circ}\right]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0		0.245	0.253	0.263	0.279	
2	6.0		.107	.116	.132	.150	
3	15.0		.019	.031	.044	.065	
4	27.5		-.009	.002	.017	.039	
5	40.0		--	--	--	--	
6	50.0		--	--	--	--	
7	59.0		--	--	--	--	
8	67.5		--	--	--	--	
9	77.5		--	--	--	--	
10	87.5		--	--	--	--	
11	96.0		--	--	--	--	
B12	2.0		--	--	--	--	
13	6.0		--	--	--	--	
14	15.0		-.026	-.023	-.013	.002	
15	27.5		-.100	-.097	-.086	-.065	
16	40.0		-.156	-.165	-.158	-.140	
17	50.0		-.174	-.190	-.186	-.175	
18	59.0		-.160	-.171	-.168	-.145	
19	67.5		--	--	--	--	
20	77.5		--	--	--	--	
21	88.0		--	--	--	--	
22	95.3		--	--	--	--	
C23	2.0		.231	.226	.230	.238	
24	6.0		.066	.063	.066	.078	
25	15.0		-.058	-.067	-.063	-.049	
26	27.5		-.139	-.154	-.152	-.136	
27	40.0		-.202	-.231	-.233	-.219	
28	50.0		-.211	-.260	-.282	-.288	
29	59.0		-.219	-.266	-.300	-.295	
30	67.5		-.169	-.212	-.253	-.268	
31	77.5		-.125	-.160	-.202	-.248	
32	88.0		-.047	-.077	-.103	-.172	
33	95.3		.021	-.018	-.042	-.109	
D34	2.0		.194	.190	.183	.181	
35	15.0		-.069	-.086	-.098	-.095	
36	27.5		-.148	-.178	-.199	-.196	
37	40.0		-.213	-.253	-.293	-.307	
38	50.0		-.225	-.261	-.317	-.360	
39	59.0		-.168	-.213	-.257	-.373	
40	67.5		-.146	-.173	-.173	-.300	
41	77.5		-.088	-.102	-.097	-.164	
42	87.5		-.008	-.015	-.008	-.035	
43	94.2		.047	.044	.053	.030	
E44	2.0	0.224	.251	.260	.256	.243	
45	6.0	.033	.056	.061	.057	.042	
46	15.0	-.074	-.073	-.077	-.087	-.107	
47	27.5	-.147	-.156	-.167	-.176	-.211	
48	40.0	-.202	-.220	-.237	-.241	-.309	
49	50.0	-.212	-.230	-.247	-.243	-.323	
50	59.0	-.199	-.220	-.227	-.222	-.259	
51	67.5	-.169	-.176	-.176	-.174	-.164	
52	77.5	-.126	-.097	-.099	-.090	-.065	
53	88.5	.103	.083	.075	.082	.109	
54	95.5	.059	.051	.049	.056	.073	
F55	2.0	.198	.232	.248	.255	.228	
56	6.0	.036	.048	.069	.075	.050	
57	15.0	-.084	-.079	-.077	-.076	-.108	
58	27.5	-.159	-.166	-.169	-.167	-.202	
59	49.0	-.221	-.239	-.249	-.247	-.277	
60	50.0	-.231	-.254	-.264	-.263	-.278	
61	59.0	-.234	-.259	-.264	-.243	-.240	
62	67.5	-.233	-.260	-.277	-.252	-.214	
63	86.5	--	--	--	--	--	
64	94.6	--	--	--	--	--	
G65	2.0	.178	.221	.246	.263	.269	
66	6.0	.017	.041	.056	.070	.079	
67	15.0	-.090	-.086	-.084	-.078	-.070	
68	27.5	-.166	-.175	-.185	-.186	-.173	
69	40.0	-.231	-.254	-.274	-.296	-.278	
70	50.0	-.256	-.286	-.313	-.341	-.346	
71	59.0	-.247	-.276	-.304	-.318	-.353	
72	67.5	-.240	-.265	-.287	-.269	-.324	
73	77.5	-.263	-.284	-.297	-.257	-.243	
74	87.2	--	--	--	--	--	
75	95.8	.080	.084	.083	.074	.059	
H76	2.0	.083	.102	.117	.134	.157	
77	6.0	.098	-.049	-.052	-.045	-.027	
78	15.0	-.120	-.139	-.163	-.162	-.150	
79	27.5	-.179	-.210	-.251	-.265	-.267	
80	40.0	-.221	-.257	-.308	-.347	-.366	
81	50.0	-.228	-.257	-.297	-.326	-.364	
82	59.0	-.199	-.212	-.249	-.283	-.321	
83	67.5	-.162	-.173	-.213	-.245	-.245	
84	88.3	-.096	-.067	.019	.052	.083	
85	94.2	.018	.010	.075	.097	.111	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0		-0.287	-0.259	-0.224	-0.181	
87	10.0		-.096	-.079	-.059	-.035	
88	25.0		-.162	-.155	-.135	-.104	
89	41.0		--	--	--	--	
90	52.5		--	--	--	--	
91	62.5		--	--	--	--	
92	72.5		--	--	--	--	
93	84.0		--	--	--	--	
94	94.0		--	--	--	--	
95	3.0		-.376	-.351	-.327	-.277	
96	10.0		-.242	-.202	-.165	-.150	
97	25.0		-.226	-.237	-.229	-.200	
98	41.0		-.236	-.264	-.255	-.229	
99	52.5		-.228	-.288	-.269	-.266	
100	62.5		--	--	--	--	
101	72.5		--	--	--	--	
102	86.3		--	--	--	--	
103	94.5		--	--	--	--	
104	3.0		-.435	-.440	-.410	-.360	
105	10.0		-.289	-.310	-.294	-.266	
106	25.0		-.263	-.303	-.302	-.274	
107	41.0		-.258	-.332	-.358	-.329	
108	52.5		-.233	-.301	-.376	-.365	
109	62.5		-.179	-.230	-.335	-.360	
110	72.5		-.112	-.146	-.224	-.305	
111	85.1		-.027	-.051	-.077	-.162	
112	94.6		.029	.012	-.009	-.076	
113	3.0		-.484	-.534	-.516	-.467	
114	10.0		-.278	-.306	-.330	-.320	
115	25.0		-.267	-.311	-.361	-.344	
116	41.0		-.250	-.301	-.421	-.430	
117	52.5		-.206	-.242	-.318	-.427	
118	62.5		-.138	-.158	-.163	-.360	
119	72.5		-.056	-.068	-.060	-.149	
120	87.4		.041	.035	.049	.020	
121	94.2		.060	.055	.064	.038	
122	3.0	-.320	-.425	-.526	-.566	-.538	
123	10.0	-.230	-.281	-.298	-.360	-.364	
124	25.0	-.178	-.225	-.265	-.327	-.400	
125	41.0	-.149	-.189	-.222	-.222	-.415	
126	52.5	-.098	-.129	-.153	-.148	-.236	
127	62.5	-.057	-.080	-.096	-.097	-.085	
128	72.5	.020	.008	.003	.005	.019	
129	78.0	.057	.055	.053	.056	.068	
130	85.3	.111	.110	.109	.110	.116	
131	94.1	.125	.122	.120	.123	.130	
132	3.0	-.312	-.417	-.536	-.589	-.581	
133	10.0	-.208	-.261	-.297	-.297	-.400	
134	25.0	-.158	-.200	-.234	-.245	-.396	
135	41.0	-.116	-.148	-.178	-.188	-.255	
136	52.5	-.067	-.087	-.100	-.101	-.079	
137	62.5	.020	.012	.009	.007	.034	
138	72.5	.131	.125	.124	.126	.124	
139	83.4	--	--	--	--	--	
140	94.0	.138	.137	.132	.130	.147	
141	3.0	-.247	-.341	-.443	-.508	-.586	
142	10.0	-.189	-.245	-.273	-.235	-.299	
143	25.0	-.133	-.158	-.186	-.210	-.231	
144	41.0	-.087	-.102	-.120	-.123	-.107	
145	52.5	-.031	-.034	-.041	-.041	-.031	
146	62.5	.066	.063	.060	.028	.068	
147	72.5	.138	.149	.146	.143	.148	
148	84.0	.229	.225	.217	.213	.219	
149	92.0	--	--	--	--	--	
150	3.0	.005	-.264	-.350	-.404	-.438	
151	10.0	-.163	-.202	-.218	-.284	-.215	
152	25.0	-.133	-.154	-.175	-.209	-.220	
153	41.0	--	--	--	--	--	
154	52.5	-.045	-.029	-.024	-.017	-.001	
155	62.5	.060	.058	.066	.070	.090	
156	72.5	.132	.133	.140	.145	.159	
157	84.9	.102	.110	.130	.134	.154	

[redacted]

TABLE 51

[$\Lambda = 45^\circ$, $\delta_{a_n} = 10.0^\circ$, $\alpha = 2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	-0.182	-0.150	-0.101	0.084	-0.040	
2	6.0	-.189	-.172	-.136	-.116	-.080	
3	15.0	-.179	-.171	-.146	-.128	-.095	
4	27.5	-.164	-.161	-.141	-.120	-.088	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	--	--	--	--	--	
8	67.5	--	--	--	--	--	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	-.232	-.239	-.219	-.199	-.165	
15	27.5	-.248	-.264	-.249	-.224	-.191	
16	40.0	-.264	-.296	-.306	-.281	-.238	
17	50.0	-.251	-.299	-.319	-.304	-.270	
18	59.0	-.234	-.286	-.325	-.316	-.268	
19	67.5	--	--	--	--	--	
20	77.5	--	--	--	--	--	
21	88.0	--	--	--	--	--	
22	95.3	--	--	--	--	--	
C23	2.0	-.261	-.261	-.201	-.173	-.126	
24	6.0	-.273	-.275	-.245	-.222	-.183	
25	15.0	-.276	-.299	-.293	-.266	-.228	
26	27.5	-.290	-.324	-.339	-.322	-.281	
27	40.0	-.303	-.356	-.402	-.387	-.353	
28	50.0	-.276	-.339	-.421	-.422	-.378	
29	59.0	-.264	-.318	-.421	-.449	-.424	
30	67.5	-.227	-.280	-.369	-.407	-.388	
31	77.5	-.142	-.189	-.286	-.384	-.384	
32	88.0	-.055	-.079	-.123	-.217	-.280	
33	95.3	.005	-.007	-.039	-.094	-.143	
D34	2.0	-.353	-.350	-.297	-.265	-.203	
35	15.0	-.301	-.337	-.356	-.340	-.305	
36	27.5	-.303	-.349	-.404	-.384	-.354	
37	40.0	-.319	-.376	-.489	-.490	-.454	
38	50.0	-.296	-.354	-.456	-.539	-.508	
39	59.0	-.235	-.290	-.376	-.443	-.475	
40	67.5	-.224	-.286	-.360	-.458	-.474	
41	77.5	-.095	-.091	-.063	-.311	-.463	
42	87.5	-.017	-.018	-.005	.001	-.101	
43	94.2	.046	.048	.056	.063	-.003	
E44	2.0	-.429	-.398	-.379	-.320	-.234	
45	6.0	-.371	-.371	-.379	-.342	-.285	
46	15.0	-.335	-.361	-.401	-.383	-.337	
47	27.5	-.329	-.367	-.426	-.450	-.409	
48	40.0	-.339	-.386	-.432	-.531	-.509	
49	50.0	-.318	-.362	-.402	-.487	-.543	
50	59.0	-.287	-.327	-.372	-.487	-.507	
51	67.5	-.256	-.303	-.265	-.365	-.491	
52	77.5	-.113	-.111	-.110	-.116	-.350	
53	88.5	.080	.083	.082	.103	.083	
54	95.5	.053	.050	.050	.072	.080	
F55	2.0	-.482	-.437	-.417	-.368	-.272	
56	6.0	-.394	-.391	-.395	-.379	-.315	
57	15.0	-.355	-.380	-.403	-.417	-.371	
58	27.5	-.349	-.386	-.413	-.473	-.438	
59	49.0	-.365	-.413	-.449	-.538	-.540	
60	50.0	-.345	-.401	-.434	-.518	-.608	
61	59.0	-.323	-.377	-.386	-.432	-.581	
62	67.5	-.306	-.358	-.347	-.311	-.508	
63	86.5	--	--	--	--	--	
64	94.6	--	--	--	--	--	
G65	2.0	-.581	-.549	-.508	-.485	-.383	
66	6.0	-.457	-.470	-.472	-.480	-.422	
67	15.0	-.378	-.414	-.432	-.449	-.427	
68	27.5	-.362	-.412	-.457	-.473	-.489	
69	40.0	-.377	-.439	-.513	-.511	-.573	
70	50.0	-.371	-.429	-.528	-.565	-.606	
71	59.0	-.333	-.386	-.478	-.495	-.573	
72	67.5	-.302	-.350	-.433	-.422	-.520	
73	77.5	-.306	-.330	-.314	-.286	-.258	
74	87.2	--	--	--	--	--	
75	96.8	.063	.068	.054	.056	.030	
H76	2.0	-.568	-.643	-.674	-.631	-.557	
77	6.0	-.427	-.483	-.601	-.593	-.560	
78	15.0	-.335	-.391	-.501	-.514	-.513	
79	27.5	-.319	-.375	-.487	-.523	-.436	
80	40.0	-.323	-.380	-.449	-.493	-.452	
81	50.0	-.306	-.357	-.419	-.473	-.419	
82	59.0	-.261	-.310	-.361	-.444	-.322	
83	67.5	-.202	-.238	-.150	-.215	-.192	
84	88.3	-.034	-.013	.019	.048	-.012	
85	94.2	.023	.054	.083	.098	.009	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	0.109	0.118	0.117	0.134	0.151	
87	10.0	.018	.027	.033	.046	.061	
88	25.0	-.012	-.009	-.008	.005	.034	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	--	--	--	--	--	
92	78.5	--	--	--	--	--	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	.102	.099	.089	.100	.112	
96	10.0	-.007	-.013	-.021	.007	.007	
97	25.0	-.056	-.065	-.078	-.071	-.058	
98	41.0	-.092	-.108	-.126	-.125	-.116	
99	52.5	-.089	-.110	-.136	-.142	-.141	
100	62.5	--	--	--	--	--	
101	72.5	--	--	--	--	--	
102	86.3	--	--	--	--	--	
103	94.5	--	--	--	--	--	
104	3.0	.107	.092	.064	.066	.068	
105	10.0	-.002	-.017	-.044	-.043	-.037	
106	25.0	-.069	-.088	-.116	-.122	-.120	
107	41.0	-.102	-.127	-.163	-.177	-.195	
108	52.5	-.099	-.125	-.163	-.184	-.214	
109	62.5	-.073	-.096	-.128	-.147	-.195	
110	72.5	-.033	-.051	-.078	-.098	-.141	
111	85.1	.018	.008	-.012	-.029	-.068	
112	94.6	.064	.054	.033	.010	-.031	
113	3.0	.127	.105	.061	.047	.023	
114	10.0	.024	.005	-.028	-.041	-.054	
115	25.0	-.056	-.082	-.116	-.134	-.158	
116	41.0	-.093	-.120	-.155	-.176	-.228	
117	52.5	-.086	-.110	-.141	-.161	-.217	
118	62.5	-.053	-.069	-.090	-.111	-.163	
119	72.5	.004	.002	-.007	.002	-.037	
120	87.4	.067	.072	.071	.071	.054	
121	94.2	.080	.083	.082	.085	.062	
122	3.0	.190	.157	.124	.101	.066	
123	10.0	.054	.022	-.009	-.028	-.057	
124	25.0	-.015	-.044	-.074	-.089	-.124	
125	41.0	-.039	-.065	-.091	-.103	-.136	
126	52.5	-.015	-.036	-.058	-.065	-.085	
127	62.5	.000	-.015	-.033	-.036	-.051	
128	72.5	.066	.062	.050	.053	.042	
129	78.0	.105	.096	.092	.097	.094	
130	85.3	.149	.152	.153	.162	.163	
131	94.1	.148	.159	.160	.172	.173	
132	3.0	.204	.172	.141	.116	.067	
133	10.0	.076	.048	.020	.002	-.037	
134	25.0	.008	-.016	-.041	-.054	-.081	
135	41.0	-.008	-.029	-.051	-.060	-.080	
136	52.5	.011	-.006	-.051	-.028	-.043	
137	62.5	.056	.062	.072	.066	.074	
138	72.5	.174	.183	.183	.189	.185	
139	83.4	--	--	--	--	--	
140	94.0	.152	.160	.154	.149	.133	
141	3.0	.253	.229	.208	.201	.163	
142	10.0	.098	.075	.054	.047	.014	
143	25.0	.033	.017	.001	-.002	-.024	
144	41.0	.018	.010	-.001	-.003	-.016	
145	52.5	.046	.042	.035	.033	.020	
146	62.5	.074	.063	.063	.063	.064	
147	72.5	.198	.203	.200	.202	.201	
148	84.0	.268	.287	.296	.302	300	
149	92.0	--	--	--	--	--	
150	3.0	.123	.146	.141	.151	.147	
151	10.0	.046	.033	.017	.017	.007	
152	25.0	-.025	-.038	-.057	-.065	-.065	
153	41.0	--	--	--	--	--	
154	52.5	.007	.007	.002	.000	-.021	
155	62.5	.031	.021	.012	.014	-.009	
156	72.5	.161	.172	.211	.193	.178	
157	84.9	.086	.110	.133	.137	.091	

NACA

[redacted]

TABLE 52

[A = 45°, δ_{e_n} = 10.0°, α = 7°]

[redacted]

UPPER SURFACE						
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96
A 1	2.0	-1.089	-1.172	-1.005	-0.883	-0.779
2	6.0	-.615	-.617	-.553	-.525	-.481
3	15.0	-.430	-.437	-.396	-.279	-.316
4	27.5	-.351	-.369	-.334	-.301	-.264
5	40.0	--	--	--	--	--
6	50.0	--	--	--	--	--
7	59.0	--	--	--	--	--
8	67.5	--	--	--	--	--
9	77.5	--	--	--	--	--
10	87.5	--	--	--	--	--
11	96.0	--	--	--	--	--
B12	2.0	--	--	--	--	--
13	6.0	--	--	--	--	--
14	15.0	-.508	-.528	-.487	-.451	-.408
15	27.5	-.434	-.480	-.437	-.424	-.381
16	40.0	-.406	-.488	-.464	-.426	-.382
17	50.0	-.387	-.466	-.486	-.456	-.416
18	59.0	-.330	-.435	-.469	-.429	-.393
19	67.5	--	--	--	--	--
20	77.5	--	--	--	--	--
21	88.0	--	--	--	--	--
22	95.3	--	--	--	--	--
C23	2.0	-1.381	-1.418	-1.158	-1.051	-.960
24	6.0	-.982	-1.121	-1.118	.996	-.885
25	15.0	-.581	-.654	-.564	-.507	-.452
26	27.5	-.481	-.689	-.568	-.525	-.479
27	40.0	-.446	-.559	-.602	-.561	-.512
28	50.0	-.464	-.447	-.590	-.575	-.528
29	59.0	-.344	-.433	-.641	-.600	-.553
30	67.5	-.263	-.326	-.583	-.547	-.505
31	77.5	-.196	-.242	-.532	-.549	-.509
32	88.0	-.113	-.131	-.308	-.426	-.419
33	95.3	-.161	.017	-.111	-.217	-.217
D34	2.0	-1.512	-1.519	-1.264	-1.124	-1.011
35	15.0	-.948	-.729	-.896	-.908	-.837
36	27.5	-.518	-.622	-.660	-.599	-.560
37	40.0	-.458	-.546	-.737	-.681	-.626
38	50.0	-.386	-.442	-.773	-.723	-.676
39	59.0	-.431	-.274	-.597	-.710	-.673
40	67.5	-.231	-.253	-.412	-.696	-.672
41	77.5	-.136	-.162	-.238	-.375	-.430
42	87.5	-.050	-.055	-.142	-.237	-.250
43	94.2	-.006	-.016	-.107	-.191	-.201
E44	2.0	-1.169	-1.389	-1.304	-1.175	-1.058
45	6.0	-1.149	-1.352	-1.253	-1.145	-1.035
46	15.0	-1.051	-1.142	-1.137	-1.024	-.924
47	27.5	-.592	-.632	-.784	-.841	-.816
48	40.0	-.428	-.480	-.758	-.715	-.655
49	50.0	-.377	-.412	-.741	-.795	-.743
50	59.0	-.320	-.332	-.342	-.729	-.782
51	67.5	-.247	-.256	-.265	-.392	-.550
52	77.5	-.153	-.168	-.207	-.318	-.353
53	88.3	-.006	-.042	-.144	-.256	-.294
54	95.5	.000	-.023	-.101	-.206	-.250
F55	2.0	-1.224	-1.199	-1.355	-1.221	-1.097
56	6.0	-1.222	-1.207	-1.291	-1.167	-1.049
57	15.0	-1.002	-1.138	-1.160	-1.059	-.960
58	27.5	-.652	-.863	-1.080	-.979	-.886
59	49.0	-.490	-.542	-.779	-.787	-.773
60	50.0	-.403	-.414	-.459	-.796	-.750
61	59.0	-.331	-.336	-.273	-.532	-.801
62	67.5	.275	-.273	-.223	-.343	-.591
63	86.5	--	--	--	--	--
64	94.6	--	--	--	--	--
G65	2.0	-1.011	-.858	-1.380	-1.254	-1.137
66	6.0	-.999	-.846	-1.293	-1.194	-1.089
67	15.0	-.998	-.839	-1.215	-1.090	-1.003
68	27.5	-.812	-.774	-1.065	-1.008	-.933
69	40.0	-.542	-.702	-.587	-.753	-.889
70	50.0	-.412	-.621	-.553	-.611	-.825
71	59.0	-.317	-.514	-.304	-.578	-.786
72	67.5	-.264	-.395	-.125	-.260	-.617
73	77.5	-.206	-.275	-.125	-.182	-.226
74	87.2	--	--	--	--	--
75	96.8	-.041	-.063	-.056	-.108	-.191
H76	2.0	-.647	-1.066	-.569	-.540	-.726
77	6.0	-.627	-.708	-.563	-.540	-.735
78	15.0	-.608	-.482	-.559	-.537	-.669
79	27.5	-.556	-.468	-.553	-.517	-.604
80	40.0	-.498	-.420	-.500	-.466	-.536
81	50.0	-.425	-.389	-.457	-.429	-.471
82	59.0	-.344	-.365	-.432	-.410	-.425
83	67.5	-.274	-.347	-.413	-.396	-.394
84	88.3	-.160	-.281	-.322	-.340	-.363
85	94.2	-.129	-.256	-.262	-.310	-.355

LOWER SURFACE						
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96
86	3.0	0.411	0.413	0.414	0.419	0.429
87	10.0	.171	.182	.188	.193	.203
88	25.0	.158	.164	.170	.176	.188
89	41.0	--	--	--	--	--
90	52.5	--	--	--	--	--
91	62.5	--	--	--	--	--
92	72.5	--	--	--	--	--
93	84.0	--	--	--	--	--
94	94.0	--	--	--	--	--
95	3.0	.404	.395	.389	.388	.393
96	10.0	.227	.217	.213	.213	.220
97	25.0	.118	.113	.108	.107	.117
98	41.0	.046	.042	.035	.031	.040
99	52.5	.026	.020	.009	.001	.006
100	62.5	--	--	--	--	--
101	72.5	--	--	--	--	--
102	86.3	--	--	--	--	--
103	94.5	--	--	--	--	--
104	3.0	.407	.393	.374	.368	.367
105	10.0	.238	.223	.205	.196	.199
106	25.0	.106	.093	.077	.068	.069
107	41.0	.031	.020	-.003	-.017	-.016
108	52.5	.010	-.007	-.031	-.048	-.049
109	62.5	.011	-.001	-.026	-.043	-.045
110	72.5	.034	.024	-.003	-.021	-.025
111	85.1	.067	.067	.038	.014	.016
112	94.6	.098	.090	.042	.003	.009
113	3.0	.422	.400	.372	.354	.345
114	10.0	.265	.244	.225	.200	.192
115	25.0	.117	.100	.073	.053	.046
116	41.0	.040	.023	-.008	-.034	-.042
117	52.5	.014	-.002	-.036	-.066	-.079
118	62.5	.020	.005	-.025	-.055	-.065
119	72.5	.047	.039	.011	-.022	-.031
120	87.4	.070	.093	.066	.020	.021
121	94.2	.067	.057	.021	-.027	-.038
122	3.0	.443	.433	.422	.386	.367
123	10.0	.279	.265	.249	.211	.190
124	25.0	.146	.134	.122	.082	.062
125	41.0	.080	.067	.057	.011	-.015
126	52.5	.070	.056	.045	-.002	-.032
127	62.5	.061	.043	.033	-.018	-.057
128	72.5	.093	.078	.077	.031	.001
129	78.0	.112	.105	.105	.061	.031
130	85.3	.145	.143	.148	.107	.083
131	94.1	.123	.121	.120	.076	.053
132	3.0	.450	.439	.427	.386	.361
133	10.0	.293	.283	.267	.225	.196
134	25.0	.162	.151	.143	.100	.071
135	41.0	.106	.096	.089	.045	.014
136	52.5	.092	.080	.079	.037	.006
137	62.5	.118	.109	.114	.079	.054
138	72.5	.188	.187	.198	.167	.147
139	83.4	--	--	--	--	--
140	94.0	.119	.112	.107	.063	.017
141	3.0	.454	.448	.446	.409	.378
142	10.0	.290	.280	.275	.233	.198
143	25.0	.168	.158	.160	.120	.085
144	41.0	.102	.094	.102	.057	.024
145	52.5	.095	.088	.102	.056	.024
146	62.5	.120	.107	.139	.103	.067
147	72.5	.174	.175	.190	.154	.128
148	84.0	.239	.250	.270	.240	.218
149	92.0	--	--	--	--	--
150	3.0	.247	.267	.322	.296	.277
151	10.0	.174	.150	.187	.153	.129
152	25.0	.056	.026	.052	.015	-.016
153	41.0	--	--	--	--	--
154	52.5	.017	-.016	.009	-.031	-.059
155	62.5	.046	.016	.044	.005	-.020
156	72.5	.102	.070	.104	.070	.053
157	84.9	.000	-.087	.043	-.092	-.126

NACA

[redacted]

TABLE 53

$\left[\Lambda = -30^{\circ},\ \delta_{a_n} = -10.0^{\circ},\ \alpha = -2^{\circ}\right]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
A 1	2.0	--	--	--	--		
2	6.0	--	--	--	--		
3	15.0	--	--	--	--		
4	27.5	--	--	--	--		
5	40.0	--	--	--	--		
6	50.0	-0.181	-0.221	-0.239	-0.239		
7	59.0	-.152	-.176	-.180	-.147		
8	67.5	-.099	-.084	.084	-.078		
9	77.5	--	--	--	--		
10	87.5	--	--	--	--		
11	96.0	--	--	--	--		
B12	2.0	.476	.509	.504	.487		
13	6.0	.156	.193	.173	.160		
14	15.0	-.063	-.083	-.109	-.130		
15	27.5	-.177	-.236	-.277	-.327		
16	40.0	-.229	-.299	-.360	-.464		
17	50.0	-.227	-.280	-.340	-.443		
18	59.0	-.197	-.244	-.277	-.389		
19	67.5	-.132	-.167	-.170	-.122		
20	77.5	-.049	-.064	-.068	-.047		
21	88.0	.054	.055	.040	.063		
22	95.3	--	--	--	--		
C23	2.0	.456	.503	.508	.501		
24	6.0	.172	.213	.221	.218		
25	15.0	-.028	-.017	-.016	-.018		
26	27.5	-.152	-.182	-.199	-.213		
27	40.0	-.221	-.279	-.331	-.378		
28	50.0	-.198	-.235	-.358	-.447		
29	59.0	-.201	-.232	-.292	-.385		
30	67.5	-.145	-.192	-.232	-.313		
31	77.5	-.068	-.078	-.082	-.085		
32	88.0	.043	.049	.033	.042		
33	95.3	--	--	--	--		
D34	2.0	.396	.454	.452	.452		
35	15.0	-.020	-.005	-.003	-.005		
36	27.5	-.132	-.148	-.158	-.170		
37	40.0	-.210	-.254	-.283	-.312		
38	50.0	-.219	-.271	-.306	-.358		
39	59.0	-.138	-.160	-.282	-.325		
40	67.5	--	--	--	--		
41	77.5	-.102	-.115	-.094	-.114		
42	87.5	.023	.019	.002	-.017		
43	94.2	.076	.073	.065	.047		
E44	2.0	.456	.513	.512	.516		
45	6.0	.187	.229	.235	.244		
46	15.0	-.007	.009	.015	.022		
47	27.5	-.113	-.124	-.126	-.125		
48	40.0	-.179	-.213	-.223	-.230		
49	50.0	-.182	-.218	-.230	-.239		
50	59.0	-.155	-.187	-.199	-.206		
51	67.5	-.116	-.152	-.168	-.177		
52	77.5	-.079	-.067	-.051	-.053		
53	88.5	.133	.136	.125	.126		
54	95.5	.071	.073	.070	.074		
F55	2.0	.474	.523	.520	.523		
56	6.0	.202	.239	.244	.250		
57	15.0	.010	.022	.027	.032		
58	27.5	-.109	-.107	-.110	-.111		
59	49.0	-.153	-.186	-.195	-.206		
60	50.0	-.142	-.173	-.131	-.191		
61	59.0	-.099	-.122	-.113	-.137		
62	67.5	-.069	-.102	-.101	-.120		
63	86.5	.117	.115	.115	.124		
64	94.6	.057	.046	.046	.055		
G65	2.0	.484	.526	.524	.529		
66	6.0	.209	.239	.246	.254		
67	15.0	.026	.034	.037	.042		
68	27.5	-.076	-.096	-.182	-.104		
69	40.0	-.129	-.167	-.182	-.199		
70	50.0	-.118	-.152	-.162	-.171		
71	59.0	-.063	-.093	-.105	-.116		
72	67.5	-.039	-.076	-.093	-.106		
73	77.5	.220	.238	-.241	.245		
74	87.2	--	--	--	--		
75	98.8	.073	.059	.053	.061		
H76	2.0	.408	.457	.463	.476		
77	6.0	.153	.186	.199	.215		
78	15.0	.003	.010	.017	.028		
79	27.5	-.100	-.123	-.127	-.126		
80	40.0	-.151	-.195	-.211	-.223		
81	50.0	-.153	-.206	-.228	-.252		
82	59.0	-.102	-.139	-.160	-.177		
83	67.5	-.020	-.030	-.049	-.052		
84	88.3	.087	.088	.084	.085		
85	94.2	--	--	--	--		

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
86	3.0		--	--	--		
87	10.0		--	--	--		
88	25.0		--	--	--		
89	41.0		--	--	--		
90	52.5		-0.096	-0.113	-0.100		
91	62.5		-.068	-.051	-.039		
92	72.5		-.015	-.002	.024		
93	84.0		--	--	--		
94	94.0		--	--	--		
95	3.0		-1.038	-.921	-.984		
96	10.0		-.799	-.751	-1.028		
97	25.0		-.541	-.629	-.976		
98	41.0		-.316	-.483	-.819		
99	52.5		-.212	-.270	-.351		
100	62.5		-.126	-.155	-.131		
101	72.5		-.033	-.049	-.025		
102	85.3		.057	.056	.089		
103	94.5		.112	.120	.170		
104	3.0		-1.044	-.932	-.770		
105	10.0		-.750	-.883	-.767		
106	25.0		-.506	-.701	-.707		
107	41.0		-.373	-.431	-.697		
108	52.5		-.294	-.276	-.619		
109	62.5		-.190	-.208	-.489		
110	72.5		-.067	-.074	-.032		
111	85.1		.035	.028	.060		
112	94.6		.093	.092	.107		
113	3.0		-.945	-.908	-.756		
114	10.0		-.689	-.754	-.708		
115	25.0		-.495	-.634	-.678		
116	41.0		-.420	-.528	-.723		
117	52.5		-.322	-.352	-.692		
118	62.5		-.198	-.226	-.266		
119	72.5		-.090	-.096	-.125		
120	87.4		.044	.012	.009		
121	94.2		.066	.055	.036		
122	3.0	-0.667	-.832	-.922	-.808		
123	10.0	-.397	-.500	-.686	-.671		
124	25.0	-.350	-.487	-.568	-.599		
125	41.0	-.312	-.430	-.534	-.671		
126	52.5	-.142	-.314	-.330	-.605		
127	62.5	-.185	-.234	-.244	-.302		
128	72.5	-.098	-.125	-.131	-.102		
129	78.0	-.043	-.060	-.062	-.044		
130	85.3	.018	.010	.009	.019		
131	94.1	.070	.067	.069	.075		
132	3.0	-.673	-.832	-.870	-.755		
133	10.0	-.401	-.545	-.671	-.662		
134	25.0	-.354	-.474	-.563	-.577		
135	41.0	-.322	-.439	-.538	-.645		
136	52.5	-.284	-.371	-.412	-.622		
137	62.5	-.219	-.271	-.293	-.385		
138	72.5	-.173	-.207	-.221	-.237		
139	83.4	-.103	-.110	-.115	-.129		
140	94.0	.028	.016	.016	.034		
141	3.0	-.682	-.779	-.780	-.703		
142	10.0	-.404	-.522	-.553	-.540		
143	25.0	-.351	-.459	-.522	-.525		
144	41.0	-.328	-.426	-.505	-.581		
145	52.5	-.288	-.366	-.398	-.524		
146	62.5	-.225	-.283	-.321	-.367		
147	72.5	-.202	-.240	-.258	-.270		
148	84.0	-.133	-.159	-.176	-.201		
149	92.0	-.019	-.037	-.043	-.048		
150	3.0	-.567	-.665	-.677	-.628		
151	10.0	-.325	-.372	-.442	-.483		
152	25.0	-.274	-.329	-.336	-.303		
153	41.0	-.289	-.366	-.407	-.395		
154	52.5	-.259	-.332	-.377	-.428		
155	62.5	-.193	-.249	-.277	-.310		
156	72.5	-.165	-.203	-.221	-.240		
157	84.9	-.009	-.038	-.050	-.066		

NACA

[redacted]

TABLE 34

[$\Lambda = -30^\circ$, $\delta_{a_n} = -10.0^\circ$, $\alpha = 0^\circ$]

[redacted]

UPPER SURFACE								LOWER SURFACE							
Tube	Percent chord	Mach Number						Tube	Percent chord	Mach Number					
		0.60	0.80	0.85	0.89	0.925	0.96			0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--	86	3.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--	87	10.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--	88	25.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--	89	41.0	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--	90	52.5	-0.114	-0.131	-0.134	-0.112	-0.241	-0.641
6	50.0	-0.210	-0.240	-0.236	-0.212	-0.639	-0.654	91	62.5	-.068	-.070	-.069	-.053	-.070	-.488
7	59.0	-.171	-.176	-.177	-.128	-.407	-.769	92	72.5	-.018	-.013	-.012	.004	.012	-.186
8	67.5	-.101	-.100	-.100	-.061	-.199	-.679	93	84.0	--	--	--	--	--	--
9	77.5	--	--	--	--	--	--	94	94.0	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--								
11	96.0	--	--	--	--	--	--								
B12	2.0	-.007	.054	.093	.131	.164	.186	95	3.0	-.282	-.446	-.495	-.466	-.393	-.313
13	6.0	-.178	-.195	-.180	-.143	-.107	-.077	96	10.0	-.214	-.327	-.490	-.576	-.534	-.455
14	15.0	-.244	-.318	-.364	-.377	-.334	-.310	97	25.0	-.223	-.307	-.380	-.562	-.560	-.519
15	27.5	-.289	-.361	-.502	-.522	-.491	-.454	98	41.0	-.214	-.271	-.293	-.450	-.641	-.594
16	40.0	-.299	-.379	-.458	-.641	-.628	-.589	99	52.5	-.177	-.220	-.205	-.100	-.614	-.680
17	50.0	-.276	-.333	-.385	-.590	-.693	-.684	100	62.5	-.108	-.117	-.124	-.082	-.343	-.667
18	59.0	-.234	-.279	-.245	-.438	-.715	-.758	101	72.5	-.023	-.025	-.026	-.004	-.074	-.311
19	67.5	-.150	-.166	-.155	-.087	-.614	-.746	102	86.3	.061	.069	.072	.089	.090	-.165
20	77.5	-.075	-.072	-.068	-.031	-.256	-.444	103	94.5	.129	.140	.139	.153	.175	.007
21	88.0	.040	.043	.045	.068	.083	-.169								
22	95.3	--	--	--	--	--	--								
C23	2.0	.089	.157	.192	.223	.250	.270	104	3.0	-.201	-.277	-.305	-.276	-.228	-.156
24	6.0	-.095	-.070	-.048	-.021	.009	.034	105	10.0	-.211	-.297	-.352	-.354	-.300	-.237
25	15.0	-.211	-.238	-.234	-.216	-.186	-.154	106	25.0	-.229	-.320	-.398	-.443	-.437	-.383
26	27.5	-.280	-.355	-.389	-.378	-.358	-.326	107	41.0	-.216	-.292	-.351	-.490	-.521	-.465
27	40.0	-.309	-.402	-.494	-.537	-.513	-.482	108	52.5	-.191	-.250	-.302	-.443	-.636	-.618
28	50.0	-.264	-.325	-.415	-.577	-.612	-.623	109	62.5	-.144	-.203	-.176	-.151	-.586	-.586
29	59.0	-.249	-.314	-.402	-.535	-.661	-.702	110	72.5	-.013	-.030	-.035	-.012	-.185	-.451
30	67.5	-.193	-.252	-.187	-.406	-.577	-.615	111	85.1	.047	.046	.045	.064	.002	-.112
31	77.5	-.079	-.084	-.086	-.085	-.294	-.297	112	94.6	.113	.114	.113	.124	.066	-.046
32	88.0	.031	.034	.033	.036	-.062	-.160								
33	95.3	--	--	--	--	--	--								
D34	2.0	.100	.162	.187	.201	.222	.240	113	3.0	-.214	-.285	-.311	-.298	-.253	-.190
35	15.0	-.188	-.202	-.201	-.193	-.176	-.151	114	10.0	-.191	-.259	-.289	-.283	-.251	-.200
36	27.5	-.250	-.300	-.319	-.331	-.326	-.302	115	25.0	-.229	-.316	-.377	-.414	-.407	-.360
37	40.0	-.299	-.375	-.422	-.453	-.477	-.454	116	41.0	-.231	-.316	-.381	-.511	-.521	-.475
38	50.0	-.285	-.359	-.415	-.470	-.551	-.571	117	52.5	-.197	-.264	-.312	-.429	-.603	-.566
39	59.0	-.198	-.241	-.316	-.393	-.456	-.531	118	62.5	-.134	-.177	-.195	-.183	-.495	-.518
40	67.5	--	--	--	--	--	--	119	72.5	-.042	-.061	-.073	-.086	-.111	-.113
41	77.5	-.049	-.058	-.074	-.124	-.188	-.154	120	87.4	.054	.045	.031	.021	-.016	-.017
42	87.5	.008	.001	-.008	-.037	-.092	-.080	121	94.2	.086	.081	.072	.068	.012	.022
43	94.2	.070	.067	.058	.038	-.017	-.009								
E44	2.0	.144	.210	.239	.263	.278	.275	122	3.0	-.191	-.235	-.251	-.245	-.208	-.121
45	6.0	-.047	-.019	.000	.020	.034	.042	123	10.0	-.192	-.244	-.265	-.263	-.241	-.166
46	15.0	-.164	-.175	-.172	-.164	-.157	-.151	124	25.0	-.230	-.309	-.360	-.387	-.384	-.331
47	27.5	-.224	-.262	-.275	-.278	-.284	-.293	125	41.0	-.240	-.321	-.377	-.466	-.501	-.455
48	40.0	-.260	-.314	-.339	-.354	-.379	-.430	126	52.5	-.194	-.256	-.303	-.383	-.476	-.533
49	50.0	-.241	-.288	-.313	-.329	-.348	-.448	127	62.5	-.151	-.202	-.251	-.331	-.447	-.481
50	59.0	-.199	-.240	-.264	-.281	-.302	-.405	128	72.5	-.080	-.084	-.058	-.021	-.144	-.467
51	67.5	-.166	-.215	-.245	-.262	-.260	-.191	129	78.0	-.013	-.021	-.017	-.010	.025	-.381
52	77.5	-.034	-.052	-.065	-.076	-.093	-.111	130	85.3	.047	.047	.052	.056	.075	-.036
53	88.5	.111	.106	.098	.095	.093	.053	131	94.1	.090	.094	.098	.100	.103	.089
54	95.5	.066	.062	.058	.058	.056	.037								
F55	2.0	.168	.222	.245	.265	.276	.276	132	3.0	-.234	-.267	-.275	-.268	-.225	-.135
56	6.0	-.024	-.004	.009	.025	.038	.044	133	10.0	-.206	-.248	-.260	-.251	-.220	-.151
57	15.0	-.143	-.155	-.156	-.150	-.146	-.141	134	25.0	-.244	-.312	-.350	-.375	-.379	-.328
58	27.5	-.197	-.235	-.251	-.259	-.273	-.284	135	41.0	-.257	-.337	-.391	-.451	-.475	-.431
59	49.0	-.226	-.276	-.301	-.317	-.348	-.420	136	52.5	-.241	-.308	-.354	-.416	-.501	-.536
60	50.0	-.197	-.234	-.253	-.264	-.286	-.382	137	62.5	-.197	-.254	-.298	-.357	-.443	-.503
61	59.0	-.149	-.191	-.215	-.232	-.259	-.370	138	72.5	-.170	-.222	-.257	-.299	-.407	-.485
62	67.5	-.129	-.154	-.156	.327	-.101	-.082	139	83.4	-.159	-.219	-.134	-.119	-.129	-.367
63	86.5	.107	.113	.105	.111	.114	.095	140	94.0	.047	.053	.054	.057	.056	.002
64	94.6	.070	.068	.064	.064	.061	.045								
G65	2.0	.201	.237	.255	.273	.289	.294	141	3.0	-.216	-.214	-.203	-.182	-.143	-.064
66	6.0	-.004	.005	.016	.030	.046	.056	142	10.0	-.220	-.249	-.256	-.250	-.222	-.158
67	15.0	-.113	-.132	-.136	-.135	-.128	-.117	143	25.0	-.250	-.305	-.332	-.346	-.333	-.284
68	27.5	-.173	-.215	-.234	-.247	-.261	-.257	144	41.0	-.267	-.330	-.366	-.405	-.443	-.401
69	40.0	-.197	-.250	-.275	-.297	-.337	-.389	145	52.5	-.251	-.308	-.347	-.375	-.425	-.489
70	50.0	-.166	-.205	-.222	-.236	-.268	-.332	146	62.5	-.216	-.262	-.304	-.337	-.417	-.442
71	59.0	-.111	-.162	-.187	-.206	-.243	-.328	147	72.5	-.199	-.237	-.271	-.306	-.365	-.422
72	67.5	-.097	-.150	-.176	-.189	-.134	-.227	148	84.0	-.169	-.200	-.227	-.219	-.212	-.289
73	77.5	.187	.197	.203	.207	.202	.111	149	92.0	-.003	-.007	-.024	-.024	-.024	-.117
74	87.2	--	--	--	--	--	--								
75	96.8	.090	.087	.089	.090	.084	.098								
H76	2.0	.147	.191	.217	.242	.269	.284	150	3.0	-.199	-.202	-.202	-.197	-.180	-.119
77	6.0	-.039	-.026	-.009	.013	.056	.060	151	10.0	-.169	-.173	-.169	-.159	-.139	-.090
78	15.0	-.117	-.131	-.130	-.119	-.102	-.078	152	25.0	-.194	-.217	-.223	-.216	-.198	-.150
79	27.5	-.181	-.221	-.236	-.242	-.238	-.230	153	41.0	-.241	-.291	-.317	-.332	-.314	-.288
80	40.0	-.206	-.261	-.290	-.310	-.324	-.326	154	52.5	-.229	-.279	-.314	-.361	-.377	-.359
81	50.0	-.190	-.246	-.281	-.319	-.366	-.394	155	62.5	-.180	-.160	-.235	-.248	-.309	-.339
82	59.0	-.123	-.161	-.273	-.198	-.246	-.359	156	72.5	-.151	-.178	-.193	-.204	-.215	-.272
83	67.5	-.032	-.053	-.064	-.071	-.079	-.202	157	84.9	.010	-.005	.022	-.023	-.035	-.065
84	88.3	.083	.079	.075	.075	.075	.055								
85	94.2	--	--	--	--	--	--								

NACA

[redacted]

TABLE 55

$\left[\Lambda = -30^\circ,\ \delta_{a_n} = -10.0^\circ,\ \alpha = 2^\circ\right]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.231	-0.243	-0.197	-0.258	-0.593	-0.738
7	59.0	-.185	-.184	-.152	-.137	-.367	-.828
8	67.5	-.119	-.108	-.064	-.048	-.252	-.686
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.839	-.773	-.586	-.448	-.288	-.190
13	6.0	-.625	-.838	-.707	-.600	-.463	-.374
14	15.0	-.454	-.823	-.832	-.723	-.618	-.510
15	27.5	-.401	-.593	-.857	-.850	-.753	-.669
16	40.0	-.365	-.383	-.769	-.823	-.803	-.725
17	50.0	-.322	-.355	-.403	-.769	-.794	-.777
18	59.0	-.256	-.270	-.141	-.514	-.794	-.844
19	67.5	-.164	-.174	-.107	-.215	-.546	-.795
20	77.5	-.089	-.079	-.041	-.052	-.309	-.517
21	88.0	.031	.037	.053	.103	-.043	-.308
22	95.3	--	--	--	--	--	--
C23	2.0	-.461	-.407	-.302	-.213	-.097	-.018
24	6.0	-.434	-.479	-.420	-.354	-.261	-.188
25	15.0	-.424	-.540	-.523	-.469	-.393	-.323
26	27.5	-.417	-.612	-.631	-.611	-.548	-.481
27	40.0	-.402	-.565	-.722	-.708	-.663	-.591
28	50.0	-.335	-.449	-.617	-.720	-.733	-.673
29	59.0	-.310	-.314	-.635	-.665	-.836	-.800
30	67.5	-.181	-.184	-.136	-.524	-.753	-.713
31	77.5	-.099	-.102	-.071	-.130	-.311	-.347
32	88.0	.017	.019	.027	.007	-.132	-.214
33	95.3	--	--	--	--	--	--
D34	2.0	-.379	-.330	-.263	-.193	-.096	-.019
35	15.0	-.382	-.462	-.467	-.434	-.371	-.308
36	27.5	-.382	-.499	-.543	-.543	-.500	-.438
37	40.0	-.392	-.527	-.601	-.649	-.624	-.564
38	50.0	-.355	-.472	-.558	-.635	-.721	-.663
39	59.0	-.266	-.358	-.439	-.498	-.588	-.565
40	67.5	--	--	--	--	--	--
41	77.5	-.098	-.118	-.141	-.182	-.215	-.416
42	87.5	-.007	-.017	-.037	-.070	-.116	-.078
43	94.2	.060	.056	.042	.012	-.031	.010
E44	2.0	-.326	-.275	-.211	-.146	-.080	-.003
45	6.0	-.337	-.372	-.348	-.304	-.252	-.184
46	15.0	-.354	-.424	-.437	-.418	-.380	-.319
47	27.5	-.353	-.442	-.477	-.501	-.496	-.447
48	40.0	-.354	-.444	-.489	-.521	-.590	-.559
49	50.0	-.313	-.388	-.428	-.458	-.528	-.547
50	59.0	-.267	-.350	-.396	-.435	-.503	-.534
51	67.5	-.191	-.173	-.187	-.179	-.178	-.297
52	77.5	-.080	-.104	-.122	-.134	-.136	-.143
53	88.5	.080	.071	.058	.050	.026	-.045
54	95.5	.054	.046	.036	.131	.011	-.055
F55	2.0	-.287	-.253	-.198	-.139	-.079	-.004
56	6.0	-.316	-.347	-.334	-.300	-.255	-.189
57	15.0	-.386	-.391	-.407	-.399	-.360	-.300
58	27.5	-.323	-.406	-.444	-.475	-.476	-.429
59	49.0	-.317	-.394	-.434	-.464	-.526	-.482
60	50.0	-.269	-.334	-.371	-.402	-.479	-.465
61	59.0	-.229	-.315	-.355	-.381	-.395	-.376
62	67.5	-.047	-.051	-.047	-.041	-.087	-.270
63	86.5	.087	.076	.073	.078	.070	-.065
64	94.5	.058	.053	.047	.049	.055	.012
G65	2.0	-.217	-.197	-.155	-.105	-.056	.014
66	6.0	-.276	-.311	-.301	-.274	-.237	-.177
67	15.0	-.281	-.343	-.365	-.361	-.328	-.271
68	27.5	-.286	-.361	-.401	-.431	-.429	-.381
69	40.0	-.279	-.350	-.383	-.418	-.465	-.459
70	50.0	-.229	-.287	-.320	-.355	-.417	-.402
71	59.0	-.186	-.264	-.304	-.343	-.415	-.402
72	67.5	.003	.005	-.015	-.014	-.113	-.346
73	77.5	.150	.156	.159	.162	.129	-.128
74	87.2	--	--	--	--	--	--
75	96.8	.088	.092	.085	.093	.098	.113
H76	2.0	-.203	-.173	-.130	-.080	-.035	.028
77	6.0	-.271	-.293	-.274	-.241	-.206	-.151
78	15.0	-.253	-.296	-.306	-.293	-.252	-.214
79	27.5	-.269	-.333	-.361	-.385	-.378	-.334
80	40.0	-.263	-.336	-.375	-.396	-.441	-.422
81	50.0	-.230	-.294	-.336	-.395	-.444	-.465
82	59.0	-.151	-.192	-.217	-.238	-.325	-.424
83	67.5	-.093	-.076	-.091	-.098	-.118	-.245
84	88.3	.070	.063	.057	.058	.055	.021
85	94.2	--	--	--	--	--	--

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.084	-0.113	-0.127	-0.130	-0.173	-0.594
91	62.5	-.049	-.052	-.052	-.052	-.051	-.367
92	72.5	-.003	-.001	.000	.002	.001	-.117
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.226	.203	.158	.124	.068	.075
96	10.0	.036	.004	-.031	-.062	-.103	-.087
97	25.0	-.102	-.155	-.199	-.257	-.310	-.287
98	41.0	-.145	-.195	-.230	-.282	-.488	-.478
99	52.5	-.128	-.166	-.189	-.217	-.439	-.570
100	62.5	-.076	-.096	-.107	-.111	-.194	-.523
101	72.5	-.002	-.005	-.006	-.005	.001	-.214
102	86.3	.073	.081	.085	.090	.083	-.134
103	94.5	.135	.146	.151	.161	.146	-.031
104	3.0	.205	.204	.181	.165	.140	.148
105	10.0	.024	.010	-.011	-.026	-.051	-.032
106	25.0	-.094	-.133	-.164	-.196	-.233	-.210
107	41.0	-.134	-.183	-.222	-.277	-.380	-.368
108	52.5	-.131	-.174	-.204	-.250	-.396	-.494
109	62.5	-.086	-.120	-.149	-.197	-.337	-.424
110	72.5	-.042	-.077	-.043	-.012	-.112	-.123
111	85.1	.070	.071	.068	.065	.008	-.096
112	94.6	.130	.138	.138	.133	.072	-.055
113	3.0	.162	.159	.143	.133	.110	.118
114	10.0	.023	.011	-.003	-.011	-.024	-.005
115	25.0	-.099	-.138	-.165	-.192	-.220	-.201
116	41.0	-.147	-.198	-.235	-.279	-.376	-.364
117	52.5	-.132	-.180	-.212	-.252	-.367	-.451
118	62.5	-.094	-.130	-.160	-.193	-.304	-.396
119	72.5	-.019	-.031	-.045	-.060	-.069	-.045
120	87.4	.073	.070	.061	.047	.005	.013
121	94.2	.096	.094	.086	.067	.026	.035
122	3.0	.173	.187	.176	.171	.174	.178
123	10.0	.017	.017	.005	-.002	.008	.019
124	25.0	-.107	-.136	-.162	-.182	-.193	-.183
125	41.0	-.157	-.202	-.237	-.277	-.335	-.344
126	52.5	-.131	-.170	-.200	-.230	-.306	-.423
127	62.5	-.104	-.135	-.159	-.185	-.248	-.384
128	72.5	-.056	-.092	-.120	-.145	-.177	-.364
129	78.0	-.024	-.028	-.017	.000	.028	-.129
130	85.3	.074	.029	.079	.077	.078	.056
131	94.1	.106	-.001	.110	.107	.098	.074
132	3.0	.137	.158	.151	.150	.159	.168
133	10.0	.001	-.006	-.001	.000	.009	.024
134	25.0	-.120	-.145	-.165	-.178	-.179	-.168
135	41.0	-.174	-.218	-.253	-.287	-.319	-.323
136	52.5	-.180	-.223	-.258	-.293	-.361	-.436
137	62.5	-.151	-.186	-.214	-.242	-.295	-.408
138	72.5	-.134	-.162	-.185	-.210	-.263	-.369
139	83.4	-.151	-.187	-.208	-.211	-.232	-.311
140	94.0	.043	.045	.042	.043	.047	-.008
141	3.0	.133	.169	.172	.180	.197	.211
142	10.0	-.024	-.012	-.015	-.010	.006	.025
143	25.0	-.134	-.152	-.168	-.176	-.172	-.153
144	41.0	-.193	-.229	-.254	-.273	-.306	-.302
145	52.5	-.199	-.235	-.261	-.289	-.314	-.398
146	62.5	-.176	-.207	-.232	-.264	-.279	-.372
147	72.5	-.169	-.195	-.213	-.227	-.251	-.312
148	84.0	-.159	-.192	-.227	-.234	-.260	-.278
149	92.0	.004	.000	-.030	-.042	-.048	-.075
150	3.0	.108	.141	.141	.150	.030	.189
151	10.0	-.007	.015	.019	.030	.052	.074
152	25.0	-.106	-.107	-.112	-.107	-.088	-.065
153	41.0	-.187	-.216	-.237	-.247	-.242	-.223
154	52.5	-.191	-.230	-.258	-.293	-.318	-.304
155	62.5	-.156	-.178	-.192	-.207	-.254	-.306
156	72.5	-.140	-.161	-.178	-.185	-.189	-.261
157	84.9	.020	.012	.008	-.003	-.011	-.045

NACA

[redacted]

TABLE 56

[$\Lambda = -30^\circ$, $\delta_{a_n} = -10.0^\circ$, $\alpha = 4^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.227	-0.252	-0.509	-0.481	-0.432	-0.803
7	59.0	-.192	-.173	-.435	-.452	-.398	-.793
8	67.5	-.132	-.112	-.351	-.404	-.367	-.511
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-1.769	-1.274	-1.109	-.881	-.700	-.570
13	6.0	-1.019	-1.175	-1.001	-.934	-.818	-.696
14	15.0	-.766	-.928	-.681	-.782	-.869	-.784
15	27.5	-.523	-.654	-.598	-.691	-.935	-.858
16	40.0	-.428	-.625	-.510	-.629	-.905	-.856
17	50.0	-.363	-.458	-.444	-.481	-.811	-.886
18	59.0	-.280	-.315	-.382	-.423	-.685	-.939
19	67.5	-.177	-.203	-.288	-.354	-.560	-.888
20	77.5	-.093	-.098	-.196	-.279	-.438	-.658
21	88.0	.017	.012	-.072	-.176	-.244	-.470
22	95.3	--	--	--	--	--	--
C23	2.0	-1.222	-.950	-.725	-.563	-.425	-.324
24	6.0	-.895	-1.051	-.862	-.721	-.590	-.485
25	15.0	-.641	-.942	-.866	-.751	-.634	-.537
26	27.5	-.556	-.856	-.893	-.819	-.720	-.632
27	40.0	-.493	-.701	-.808	-.835	-.808	-.731
28	50.0	-.405	-.430	-.599	-.714	-.794	-.789
29	59.0	-.332	-.368	-.409	-.733	-.882	-.827
30	67.5	-.220	-.239	-.157	-.584	-.814	-.761
31	77.5	-.120	-.184	-.098	-.081	-.331	-.387
32	88.0	-.004	-.014	-.005	-.027	-.227	-.308
33	95.3	--	--	--	--	--	--
D34	2.0	-1.025	-.880	-.680	-.537	-.413	-.319
35	15.0	-.591	-.779	-.787	-.692	-.586	-.496
36	27.5	-.513	-.705	-.810	-.755	-.667	-.589
37	40.0	-.483	-.676	-.820	-.838	-.780	-.702
38	50.0	-.416	-.569	-.760	-.842	-.782	-.740
39	59.0	-.312	-.471	-.412	-.640	-.681	-.665
40	67.5	--	--	--	--	--	--
41	77.5	-.130	-.149	-.147	-.259	-.475	-.591
42	87.5	-.029	-.034	-.025	-.066	-.101	-.270
43	94.2	.036	.025	.043	.007	-.007	.040
E44	2.0	-.984	-.889	-.732	-.582	-.457	-.302
45	6.0	-.725	-.969	-.863	-.730	-.616	-.466
46	15.0	-.558	-.760	-.833	-.731	-.633	-.501
47	27.5	-.480	-.643	-.823	-.787	-.710	-.597
48	40.0	-.443	-.559	-.743	-.761	-.748	-.660
49	50.0	-.373	-.451	-.560	-.741	-.707	-.605
50	53.0	-.297	-.353	-.340	-.494	-.651	-.609
51	67.5	-.213	-.254	-.281	-.241	-.295	-.484
52	77.5	-.113	-.138	-.154	-.142	-.168	-.317
53	88.5	.020	.014	.013	-.034	-.124	-.226
54	95.5	.031	.024	.019	-.035	-.144	-.159
F55	2.0	-.910	-.871	-.731	-.591	-.461	-.301
56	6.0	-.672	-.913	-.831	-.707	-.592	-.447
57	15.0	-.525	-.700	-.813	-.721	-.629	-.501
58	27.5	-.445	-.600	-.762	-.760	-.687	-.581
59	49.0	-.399	-.525	-.673	-.721	-.668	-.570
60	50.0	-.323	-.390	-.457	-.590	-.502	-.561
61	59.0	-.230	-.267	-.261	-.414	-.463	-.519
62	67.5	-.120	-.137	-.142	-.183	-.341	-.500
63	86.5	.057	.051	.045	.040	-.054	-.068
64	94.6	.048	.044	.029	.034	-.017	-.034
G65	2.0	-.785	-.794	-.682	-.552	-.334	-.287
66	6.0	-.602	-.807	-.800	-.687	-.577	-.442
67	15.0	-.465	-.628	-.729	-.681	-.597	-.479
68	27.5	-.405	-.536	-.660	-.666	-.625	-.534
69	40.0	-.360	-.476	-.574	-.594	-.546	-.526
70	50.0	-.297	-.390	-.516	-.581	-.537	-.495
71	59.0	-.163	-.182	-.182	-.432	-.527	-.511
72	67.5	-.063	-.074	-.077	-.085	-.360	-.436
73	77.5	.040	-.114	.103	.114	-.033	-.319
74	87.2	--	--	--	--	--	--
75	96.8	.083	.078	.063	.090	.098	.133
H76	2.0	-.653	-.674	-.614	-.503	-.396	-.261
77	6.0	-.539	-.645	-.689	-.607	-.514	-.397
78	15.0	-.400	-.495	-.522	-.507	-.474	-.387
79	27.5	-.357	-.438	-.555	-.531	-.488	-.422
80	40.0	-.322	-.419	-.476	-.551	-.545	-.503
81	50.0	-.272	-.331	-.429	-.487	-.555	-.531
82	59.0	-.180	-.230	-.270	-.307	-.434	-.472
83	67.5	-.077	-.107	-.133	-.135	-.186	-.331
84	88.3	.058	.047	.052	.030	.022	-.014
85	94.2	--	--	--	--	--	--

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.054	-0.081	-0.119	-0.159	-0.211	-0.427
91	62.5	-.030	-.041	-.069	-.094	-.098	-.314
92	72.5	.008	.007	-.025	-.055	-.058	-.131
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.556	.516	.482	.440	.396	.388
96	10.0	.241	.216	.188	.158	.130	.131
97	25.0	.010	-.032	-.066	-.111	-.155	-.154
98	41.0	-.077	-.124	-.165	-.225	-.319	-.327
99	52.5	-.082	-.120	-.157	-.208	-.331	-.378
100	62.5	-.046	-.070	-.099	-.133	-.232	-.339
101	72.5	.016	.007	-.016	-.039	-.069	-.184
102	86.3	.080	.082	.057	.036	.018	-.144
103	94.5	.133	.139	.104	.076	.063	-.077
104	3.0	.502	.487	.466	.436	.408	.404
105	10.0	.227	.220	.204	.181	.159	.165
106	25.0	.033	.010	-.012	-.041	-.068	-.062
107	41.0	-.057	-.090	-.125	-.169	-.222	-.237
108	52.5	-.075	-.114	-.147	-.198	-.261	-.277
109	62.5	-.046	-.072	-.099	-.140	-.225	-.240
110	72.5	.006	-.022	-.051	-.097	-.173	-.186
111	85.1	.087	.100	.080	.061	.000	-.049
112	94.6	.136	.137	.133	.112	.031	-.029
113	3.0	.447	.438	.421	.394	.368	.364
114	10.0	.210	.208	.198	.180	.162	.170
115	25.0	.024	.006	-.012	-.037	-.065	-.057
116	41.0	-.062	-.096	-.123	-.163	-.216	-.238
117	52.5	-.070	-.107	-.134	-.178	-.227	-.260
118	62.5	-.043	-.068	-.097	-.131	-.180	-.196
119	72.5	.004	-.009	-.015	-.043	-.076	-.044
120	87.4	.081	.123	.089	.071	.034	.049
121	94.2	.104	.102	.092	.071	.038	.059
122	3.0	.454	.466	.469	.455	.441	.402
123	10.0	.203	.216	.222	.221	.372	.185
124	25.0	.016	.008	.003	-.010	-.023	-.049
125	41.0	-.070	-.097	-.114	-.140	-.176	-.219
126	52.5	-.057	-.095	-.113	-.139	-.176	-.274
127	62.5	-.059	-.081	-.099	-.120	-.157	-.258
128	72.5	-.014	-.032	-.046	-.066	-.102	-.201
129	78.0	.014	-.001	-.014	-.037	-.071	-.170
130	85.3	.048	.042	.052	.055	.037	.055
131	94.1	.116	.125	.126	.117	.089	.100
132	3.0	.427	.446	.453	.443	.430	.394
133	10.0	.188	.209	.217	.213	.209	.187
134	25.0	.003	.000	-.003	-.010	-.018	-.038
135	41.0	-.089	-.113	-.127	-.147	-.170	-.208
136	52.5	-.116	-.148	-.167	-.195	-.232	-.286
137	62.5	-.104	-.133	-.152	-.171	-.212	-.286
138	72.5	-.099	-.124	-.142	-.163	-.195	-.268
139	83.4	-.153	-.078	-.177	-.193	-.228	-.340
140	94.0	.043	.041	.036	.024	-.002	-.066
141	3.0	.406	.442	.455	.453	.448	.423
142	10.0	.156	.185	.197	.200	.200	.186
143	25.0	-.020	-.017	-.014	-.015	-.019	-.030
144	41.0	-.114	-.132	-.141	-.152	-.167	-.202
145	52.5	-.139	-.163	-.177	-.193	-.211	-.286
146	62.5	-.130	-.170	-.142	-.141	-.176	-.242
147	72.5	-.140	-.163	-.178	-.186	-.204	-.205
148	84.0	-.140	-.180	-.207	-.227	-.261	-.311
149	92.0	.013	.005	-.002	-.011	-.020	-.034
150	3.0	.337	.406	.425	.429	.429	.407
151	10.0	.144	.183	.201	.212	.221	.218
152	25.0	-.013	.002	.020	.022	.028	.032
153	41.0	-.126	-.141	-.148	-.152	-.152	-.148
154	52.5	-.150	-.179	-.198	-.214	-.240	-.247
155	62.5	-.126	-.147	-.163	-.176	-.200	-.254
156	72.5	-.127	-.152	-.169	-.159	-.191	-.233
157	84.9	.026	.020	.008	.004	-.004	-.030

NACA

[redacted]

TABLE 57

$[A = -30°, \delta_{a_n} = -10.0°, \alpha = 7°]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.471	-0.561	-0.564	-0.572	-0.610	-0.636
7	59.0	-.392	-.560	-.575	-.585	-.620	-.559
8	67.5	-.313	-.532	-.565	-.582	-.617	-.495
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.681	-1.429	-1.279	-1.153	-1.097	-.998
13	6.0	-.691	-1.316	-1.152	-1.082	-.979	-.982
14	15.0	-.699	-.506	-.499	-.517	-.716	-.980
15	27.5	-.731	-.492	-.513	-.529	-.585	-1.058
16	40.0	-.664	-.504	-.517	-.538	-.606	-1.039
17	50.0	-.562	-.508	-.518	-.531	-.611	-.955
18	59.0	-.496	-.503	-.521	-.531	-.564	-.875
19	67.5	-.397	-.447	-.487	-.493	-.498	-.792
20	77.5	-.295	-.352	-.404	-.420	-.388	-.786
21	88.0	-.148	-.208	-.247	-.262	-.291	-.657
22	95.3	--	--	--	--	--	--
C23	2.0	-1.480	-1.471	-1.217	-1.009	-.841	-.710
24	6.0	-1.311	-1.410	-1.206	-1.049	-.908	-.792
25	15.0	-.830	-1.290	-1.106	-1.017	-.911	-.808
26	27.5	-.608	-.795	-.975	-.955	-.928	-.860
27	40.0	-.547	-.527	-.692	-.807	-.873	-.887
28	50.0	-.461	-.410	-.544	-.664	-.809	-.853
29	59.0	-.397	-.342	-.437	-.549	-.701	-.866
30	67.5	-.279	-.272	-.366	-.452	-.619	-.818
31	77.5	-.187	-.214	-.332	-.352	-.614	-.760
32	88.0	-.071	-.112	-.186	-.266	-.486	-.624
33	95.3	--	--	--	--	--	--
D34	2.0	-2.000	-1.377	-1.116	-.912	-.739	-.646
35	15.0	-.796	-1.299	-1.120	-.981	-.864	-.762
36	27.5	-.628	-1.191	-1.086	-1.002	-.903	-.811
37	40.0	-.544	-.773	-1.058	-.980	-.954	-.875
38	50.0	-.450	-.511	-.911	-.884	-.917	-.849
39	59.0	-.328	-.345	-.515	-.781	-.800	-.771
40	67.5	--	--	--	--	--	--
41	77.5	-.140	-.105	-.115	-.136	-.516	-.612
42	87.5	-.059	-.041	-.076	-.125	-.171	-.244
43	94.2	-.030	-.004	-.059	-.124	-.183	-.160
E44	2.0	-1.947	-1.424	-1.173	-1.003	-.839	-.663
45	6.0	-1.581	-1.438	-1.216	-1.061	-.914	-.739
46	15.0	-.823	-1.332	-1.164	-1.034	-.904	-.768
47	27.5	-.621	-1.255	-1.082	-1.008	-.931	-.812
48	40.0	-.518	-.753	-1.021	-.965	-.873	-.772
49	50.0	-.413	-.477	-.863	-.889	-.860	-.765
50	59.0	-.313	-.302	-.500	-.634	-.714	-.678
51	67.5	-.225	-.204	-.176	-.250	-.311	-.493
52	77.5	-.134	-.115	-.166	-.222	-.244	-.273
53	88.5	-.067	-.036	-.147	-.223	-.283	-.294
54	95.5	-.051	-.031	-.135	-.230	-.298	-.325
F55	2.0	-2.044	-1.425	-1.174	-1.003	-.840	-.663
56	6.0	-1.170	-1.410	-1.188	-1.033	-.887	-.736
57	15.0	-.781	-1.326	-1.153	-1.025	-.893	-.758
58	27.5	-.589	-1.205	-1.084	-.977	-.884	-.782
59	49.0	-.478	-.533	-.822	-.738	-.762	-.734
60	50.0	-.367	-.414	-.537	-.495	-.468	-.476
61	59.0	-.255	-.273	-.508	-.503	-.480	-.462
62	67.5	-.151	-.167	-.432	-.491	-.484	-.478
63	86.5	-.019	.013	-.028	-.378	-.496	-.490
64	94.5	.011	.034	.035	-.217	-.390	-.436
G65	2.0	-1.939	-1.391	-1.148	-.980	-.820	-.642
66	6.0	-.941	-1.380	-1.163	-1.008	-.869	-.724
67	15.0	-.697	-1.224	-1.115	-.990	-.868	-.738
68	27.5	-.541	-1.164	-1.023	-.902	-.836	-.770
69	40.0	-.441	-.594	-.955	-.889	-.798	-.707
70	50.0	-.334	-.357	-.687	-.835	-.798	-.703
71	59.0	-.205	-.226	-.378	-.700	-.744	-.718
72	67.5	-.100	-.104	-.129	-.472	-.686	-.653
73	77.5	.001	.032	.070	.159	-.187	-.548
74	87.2	--	--	--	--	--	--
75	96.8	.054	.066	.077	.088	.103	.128
H76	2.0	-1.326	-1.288	-1.062	-.904	-.763	-.608
77	6.0	-.851	-1.274	-1.083	-.942	-.810	-.672
78	15.0	-.594	-1.052	-1.002	-.901	-.796	-.680
79	27.5	-.485	-.650	-.735	-.786	-.743	-.656
80	40.0	-.401	-.542	-.673	-.690	-.658	-.610
81	50.0	-.363	-.437	-.579	-.656	-.646	-.617
82	59.0	-.219	-.285	-.349	-.481	-.559	-.551
83	67.5	-.118	-.162	-.194	-.235	-.314	-.411
84	88.3	.033	.007	-.009	-.022	-.042	-.080
85	94.2	--	--	--	--	--	--

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.041	-0.098	-0.138	-0.182	-0.234	-0.316
91	62.5	-.033	-.080	-.109	-.136	-.153	-.217
92	72.5	-.013	-.062	-.093	-.116	-.131	-.106
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.717	.738	.716	.686	.666	.665
96	10.0	.387	.396	.379	.355	.344	.351
97	25.0	.107	.084	.059	.030	.010	.026
98	41.0	-.019	-.064	-.098	-.141	-.184	-.175
99	52.5	-.048	-.097	-.134	-.179	-.246	-.258
100	62.5	-.035	-.077	-.109	-.143	-.186	-.248
101	72.5	.008	-.028	-.054	-.076	-.092	-.147
102	86.3	.041	.003	-.020	-.034	-.040	-.075
103	94.5	.057	.006	-.021	-.043	-.053	-.054
104	3.0	.712	.698	.684	.661	.647	.651
105	10.0	.410	.409	.397	.379	.369	.380
106	25.0	.198	.150	.135	.113	.102	.118
107	41.0	.017	-.007	-.032	-.066	-.092	-.077
108	52.5	-.023	-.058	-.092	-.135	-.179	-.172
109	62.5	-.019	-.049	-.081	-.120	-.168	-.179
110	72.5	.021	.000	-.026	-.057	-.097	-.115
111	85.1	.060	.050	.032	.021	.016	-.042
112	94.6	.090	.084	.075	.072	.079	-.001
113	3.0	.684	.659	.644	.623	.607	.609
114	10.0	.406	.401	.390	.373	.363	.374
115	25.0	.162	.155	.141	.121	.108	.123
116	41.0	.034	.015	-.009	-.039	-.063	-.049
117	52.5	-.003	-.027	-.055	-.092	-.123	-.108
118	62.5	-.003	-.024	-.052	-.093	-.130	-.115
119	72.5	.036	.027	-.001	-.037	-.067	-.054
120	87.4	.086	.097	.075	.052	.026	.034
121	94.2	.077	.094	.060	.014	-.018	-.012
122	3.0	.695	.684	.676	.669	.659	.636
123	10.0	.407	.412	.407	.405	.399	.384
124	25.0	.164	.163	.156	.150	.142	.127
125	41.0	.036	.021	.006	-.007	-.024	-.056
126	52.5	.010	-.009	-.027	-.043	-.063	-.103
127	62.5	-.006	-.023	-.043	-.064	-.089	-.140
128	72.5	.021	.009	-.009	-.032	-.055	-.117
129	78.0	.038	.034	.015	-.009	-.029	-.088
130	85.3	.077	.090	.077	.047	.026	.009
131	94.1	.100	.127	.106	.060	.047	.058
132	3.0	.682	.675	.667	.661	.652	.633
133	10.0	.397	.405	.403	.403	.399	.387
134	25.0	.151	-.044	.151	.150	.146	.135
135	41.0	.020	.008	-.003	-.012	-.023	-.042
136	52.5	-.036	-.055	-.072	-.087	-.106	-.141
137	62.5	-.048	-.068	-.087	-.100	-.119	-.172
138	72.5	-.064	-.084	-.104	-.116	-.135	-.172
139	83.4	-.145	-.158	-.180	-.194	-.240	-.370
140	94.0	.024	.073	.032	.017	-.031	-.096
141	3.0	.665	.671	.669	.667	.665	.650
142	10.0	.364	.387	.389	.390	.391	.382
143	25.0	.128	.143	.141	.143	.143	.136
144	41.0	-.009	-.013	-.020	-.025	-.029	-.044
145	52.5	-.057	-.072	-.084	-.092	-.100	-.123
146	62.5	-.067	-.196	-.098	-.110	-.115	-.117
147	72.5	-.101	-.123	-.138	-.111	-.151	-.142
148	84.0	-.121	-.266	-.186	-.296	-.257	-.390
149	92.0	-.004	-.003	-.010	.003	-.003	-.028
150	3.0	.635	.659	.660	.660	.661	.650
151	10.0	.337	.377	.384	.391	.399	.399
152	25.0	.112	.143	.149	.156	.167	.173
153	41.0	-.034	-.035	-.039	-.039	-.034	-.029
154	52.5	-.084	-.109	-.116	-.125	-.131	-.143
155	62.5	-.080	-.100	-.116	-.126	-.130	-.136
156	72.5	-.100	-.134	-.152	-.160	-.164	-.163
157	84.9	.023	.007	-.007	-.015	-.024	-.044

NACA

[redacted]

TABLE 58

$[\Lambda = -30^\circ,\ \delta_{a_n} = -5.0^\circ,\ \alpha = -2^\circ]$

[redacted]

UPPER SURFACE

Tube	Per-cent chord	Mach Number 0.60	0.80	0.85	0.89		
A 1	2.0	--	--	--	--		
2	6.0	--	--	--	--		
3	15.0	--	--	--	--		
4	27.5	--	--	--	--		
5	40.0	--	--	--	--		
6	50.0	-0.181	-0.221	-0.236	-0.228		
7	59.0	-.153	-.175	-.173	-.141		
8	67.5	-.100	-.083	-.082	-.071		
9	77.5	--	--	--	--		
10	87.5	--	--	--	--		
11	96.0	--	--	--	--		
B12	2.0	.457	.485	.477	.476		
13	6.0	.139	.152	.150	.151		
14	15.0	-.079	-.105	-.134	-.135		
15	27.5	-.184	-.250	-.293	-.334		
16	40.0	-.236	-.309	-.369	-.463		
17	50.0	-.236	-.292	-.334	-.420		
18	59.0	-.200	-.246	-.278	-.374		
19	67.5	-.144	-.157	-.159	-.105		
20	77.5	-.052	-.067	-.063	-.038		
21	88.0	.047	.046	.049	.077		
22	95.3	--	--	--	--		
C23	2.0	.435	.479	.484	.491		
24	6.0	.155	.191	.198	.208		
25	15.0	-.039	-.036	-.036	-.025		
26	27.5	-.163	-.198	-.216	-.219		
27	40.0	-.232	-.297	-.345	-.382		
28	50.0	-.238	-.257	-.346	-.426		
29	59.0	-.207	-.258	-.299	-.383		
30	67.5	-.150	-.199	-.241	-.306		
31	77.5	-.069	-.074	-.074	-.074		
32	88.0	.037	.044	.040	.061		
33	95.3	--	--	--	--		
D34	2.0	.373	.442	.448	.442		
35	15.0	-.038	-.030	-.025	-.017		
36	27.5	-.147	-.171	-.180	-.180		
37	40.0	-.222	-.275	-.303	-.326		
38	50.0	-.229	-.286	-.324	-.367		
39	59.0	-.186	-.186	-.273	-.303		
40	67.5	--	--	--	--		
41	77.5	-.105	-.102	-.079	-.092		
42	87.5	.018	.014	.005	-.003		
43	94.2	.074	.074	.068	.061		
E44	2.0	.398	.454	.463	.475		
45	6.0	.137	.178	.191	.202		
46	15.0	-.050	-.040	-.036	-.022		
47	27.5	-.149	-.169	-.176	-.175		
48	40.0	-.214	-.257	-.279	-.294		
49	50.0	-.213	-.259	-.285	-.302		
50	59.0	-.184	-.224	-.245	-.261		
51	67.5	-.141	-.183	-.209	-.226		
52	77.5	-.090	-.071	-.071	-.070		
53	88.5	.134	.136	.131	.123		
54	95.5	.068	.070	.075	.068		
F55	2.0	.410	.458	.471	.478		
56	6.0	.146	.182	.193	.203		
57	15.0	-.036	-.027	-.022	-.015		
58	27.5	-.137	-.156	-.163	-.166		
59	49.0	-.200	-.238	-.260	-.278		
60	50.0	-.191	-.232	-.258	-.272		
61	59.0	-.154	-.185	-.205	-.215		
62	67.5	-.113	-.153	-.175	-.190		
63	88.5	.067	.067	.057	.071		
64	94.5	.051	.046	.041	.043		
G65	2.0	.420	.466	.348	.489		
66	6.0	.154	.187	.199	.211		
67	15.0	-.020	-.012	-.009	-.001		
68	27.5	-.121	-.143	-.154	-.156		
69	40.0	-.180	-.225	-.250	-.269		
70	50.0	-.177	-.218	-.243	-.258		
71	59.0	-.124	-.157	-.181	-.195		
72	67.5	-.090	-.135	-.177	-.178		
73	77.5	.121	.140	.147	.141		
74	87.2	.087	.098	.086	.090		
75	96.8	.078	.089	.066	.065		
H76	2.0	.360	.408	.293	.441		
77	6.0	.111	.148	.164	.183		
78	15.0	-.030	-.021	-.014	-.001		
79	27.5	-.131	-.151	-.157	-.153		
80	40.0	-.186	-.228	-.250	-.256		
81	50.0	-.194	-.245	-.277	-.303		
82	59.0	-.151	-.195	-.225	-.247		
83	67.5	-.093	-.127	-.155	-.170		
84	88.3	.036	.076	.018	.017		
85	94.2	--	--	--	--		

LOWER SURFACE

Tube	Per-cent chord	Mach Number 0.60	0.80	0.85	0.89		
86	3.0	--	--	--	--		
87	10.0	--	--	--	--		
88	25.0	--	--	--	--		
89	41.0	--	--	--	--		
90	52.5	-0.124	-0.106	-0.071	-0.059		
91	62.5	-.082	-.068	-.040	-.014		
92	72.5	-.023	-.013	-.005	.036		
93	84.0	--	--	--	--		
94	94.0	--	--	--	--		
95	3.0	-1.028	-.911	-.959	-.957		
96	10.0	-.478	-.765	-.898	-1.006		
97	25.0	-.317	-.454	-.665	-.949		
98	41.0	-.263	-.296	-.343	-.734		
99	52.5	-.196	-.205	-.205	-.247		
100	62.5	-.127	-.123	-.116	-.042		
101	72.5	-.041	-.030	-.021	.029		
102	86.3	.047	.061	.072	.110		
103	94.5	.106	.117	.128	.169		
104	3.0	-.679	--	-.866	-.739		
105	10.0	-.411	-.643	-.798	-.737		
106	25.0	-.336	-.481	-.604	-.665		
107	41.0	-.272	-.354	-.468	-.644		
108	52.5	-.233	-.280	-.280	-.648		
109	62.5	-.161	-.180	-.179	-.266		
110	72.5	-.056	-.059	-.053	-.028		
111	85.1	.034	.038	-.041	.074		
112	94.9	.097	.098	.104	.123		
113	3.0	-.621	-.840	-.840	-.721		
114	10.0	-.384	-.568	-.690	-.666		
115	25.0	-.328	-.451	-.543	-.632		
116	41.0	-.294	-.392	-.475	-.671		
117	52.5	-.236	-.303	-.347	-.513		
118	62.5	-.153	-.187	-.213	-.209		
119	72.5	-.064	-.080	-.090	-.112		
120	87.4	.048	.050	.028	.028		
121	94.2	.076	.071	.069	.043		
122	3.0	-.535	-.703	-.801	-.709		
123	10.0	-.358	-.458	-.547	-.580		
124	25.0	-.320	-.430	-.512	-.563		
125	41.0	-.290	-.384	-.467	-.566		
126	52.5	-.221	-.280	-.315	-.482		
127	62.5	-.160	-.197	-.214	-.179		
128	72.5	-.081	-.103	-.116	-.111		
129	78.0	-.029	-.041	-.050	-.042		
130	85.3	.031	.024	.020	.022		
131	94.1	.000	.073	.071	.076		
132	3.0	-.557	.727	-.763	-.674		
133	10.0	-.363	.465	-.551	-.564		
134	25.0	-.316	-.414	-.502	-.550		
135	41.0	-.287	-.380	-.449	-.560		
136	52.5	-.247	-.312	-.363	-.465		
137	62.5	-.180	-.214	-.237	-.244		
138	72.5	-.111	-.137	-.132	-.152		
139	83.4	-.043	-.054	-.062	-.061		
140	94.0	.046	.044	.042	.048		
141	3.0	-.520	-.626	-.660	-.610		
142	10.0	-.363	-.452	-.490	-.475		
143	25.0	-.310	-.401	-.469	-.501		
144	41.0	-.287	-.366	-.419	-.494		
145	52.5	-.249	-.308	-.359	-.429		
146	62.5	-.170	-.191	-.249	-.268		
147	72.5	-.123	-.151	-.176	-.169		
148	84.0	-.050	-.071	-.083	-.089		
149	92.0	.018	.012	.007	.007		
150	3.0	-.477	-.567	-.618	-.663		
151	10.0	-.296	-.345	-.387	-.408		
152	25.0	-.249	-.297	-.321	-.301		
153	41.0	-.293	-.332	-.389	-.382		
154	52.5	-.229	-.290	-.340	-.416		
155	62.5	-.154	-.195	-.225	-.256		
156	72.5	-.097	-.118	-.135	-.145		
157	84.9	.037	.026	.015	-.070		

NACA

[redacted]

TABLE 39

[$\Lambda = -30^{\circ}$, $\delta_{e_n} = -5.0^{\circ}$, $\alpha = 0^{\circ}$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.212	-0.237	-0.230	-0.214	-0.529	-0.657
7	59.0	-.171	-.175	-.173	-.119	-.274	-.659
8	67.5	-.103	-.100	-.095	-.051	-.116	-.455
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.068	-.001	.032	.099	.135	.172
13	6.0	-.215	-.234	-.224	-.168	-.129	-.085
14	15.0	-.270	-.352	-.415	-.385	-.366	-.313
15	27.5	-.301	-.398	-.523	-.535	-.503	-.461
16	40.0	-.310	-.386	-.470	-.652	-.639	-.593
17	50.0	-.284	-.340	-.382	-.590	-.675	-.685
18	59.0	-.238	-.278	-.232	-.455	-.673	-.747
19	67.5	-.149	-.165	-.151	-.080	-.407	-.712
20	77.5	-.076	-.071	-.064	-.022	-.091	-.390
21	88.0	.037	.042	.049	.077	.111	-.102
22	95.3	--	--	--	--	--	--
C23	2.0	.040	.117	.148	.195	.226	.259
24	6.0	-.129	-.102	-.082	-.041	-.009	.028
25	15.0	-.235	-.263	-.262	-.232	-.201	-.160
26	27.5	-.296	-.373	-.410	-.395	-.370	-.332
27	40.0	-.323	-.420	-.523	-.546	-.529	-.485
28	50.0	-.288	-.347	-.433	-.564	-.653	-.622
29	59.0	-.255	-.324	-.424	-.555	-.658	-.709
30	67.5	-.201	-.233	-.144	-.392	-.581	-.625
31	77.5	-.083	-.086	-.083	-.080	-.220	-.295
32	88.0	.028	.033	.036	.049	.011	-.134
33	95.3	--	--	--	--	--	--
D34	2.0	.048	.121	.142	.178	.202	.232
35	15.0	-.214	-.229	-.231	-.211	-.189	-.155
36	27.5	-.271	-.325	-.349	-.352	-.337	-.305
37	40.0	-.316	-.397	-.449	-.488	-.489	-.457
38	50.0	-.298	-.373	-.432	-.489	-.576	-.577
39	59.0	-.230	-.269	-.332	-.381	-.497	-.545
40	67.5	--	--	--	--	--	--
41	77.5	-.058	-.076	-.081	-.125	-.165	-.198
42	87.5	.005	.000	-.006	-.029	-.060	-.076
43	94.2	.070	.068	.062	.045	.010	-.002
E44	2.0	.051	.106	.134	.184	.212	
45	6.0	-.116	-.101	-.083	-.047	-.021	
46	15.0	-.217	-.249	-.250	-.229	-.211	
47	27.5	-.267	-.327	-.351	-.349	-.346	
48	40.0	-.301	-.378	-.423	-.448	-.480	
49	50.0	-.278	-.345	-.386	-.411	-.476	
50	59.0	-.231	-.292	-.332	-.358	-.430	
51	67.5	-.195	-.265	-.309	-.332	-.272	
52	77.5	-.044	-.065	-.078	-.083	-.102	
53	88.5	.113	.108	.100	.093	.084	
54	95.5	.067	.062	.056	.055	.049	
F55	2.0	.064	.118	.146	.186	.213	
56	6.0	-.097	-.088	-.075	-.042	-.018	
57	15.0	-.200	-.228	-.232	-.215	-.199	
58	27.5	-.250	-.306	-.332	-.336	-.336	
59	49.0	-.280	-.351	-.393	-.419	-.465	
60	50.0	-.251	-.311	-.345	-.364	-.424	
61	59.0	-.204	-.273	-.302	-.326	-.398	
62	67.5	-.175	-.244	-.280	-.278	-.208	
63	86.5	.046	.055	.048	.054	.048	
64	94.6	.053	.053	.045	.044	.040	
G65	2.0	.104	.146	.170	.207	.234	
66	6.0	-.074	-.068	-.056	-.025	-.001	
67	15.0	-.167	-.193	-.200	-.185	-.168	
68	27.5	-.224	-.285	-.303	-.307	-.303	
69	40.0	-.254	-.320	-.360	-.387	-.435	
70	50.0	-.228	-.281	-.314	-.332	-.387	
71	59.0	-.171	-.230	-.269	-.294	-.365	
72	67.8	-.150	-.222	-.262	-.283	-.332	
73	77.5	.091	.098	.092	.099	.086	
74	87.2	.078	.083	.054	.085	.084	
75	95.8	.080	.082	.058	.077	.071	
H76	2.0	.083	.127	.152	.183	.223	
77	6.0	-.088	-.073	-.059	-.026	.001	
78	15.0	-.154	-.154	-.135	-.154	-.133	
79	27.5	-.215	-.258	-.273	-.270	-.268	
80	40.0	-.240	-.299	-.332	-.336	-.345	
81	50.0	-.230	-.297	-.333	-.367	-.384	
82	59.0	-.177	-.139	-.264	-.273	-.346	
83	67.5	-.096	-.131	-.150	-.173	-.236	
84	88.3	.031	.018	.010	.015	.009	
85	94.2	--	--	--	--	--	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.106	-0.123	-0.123	-0.106	-0.082	-0.505
91	62.5	-.063	-.062	-.060	-.047	-.012	-.224
92	72.5	-.013	-.006	-.002	.010	.048	-.066
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	-.221	-.362	-.406	-.409	-.354	-.288
96	10.0	-.184	-.283	-.370	-.501	-.476	-.419
97	25.0	-.207	-.285	-.340	-.491	-.525	-.490
98	41.0	-.202	-.256	-.280	-.386	-.559	-.572
99	52.5	-.168	-.205	-.213	-.101	-.482	-.637
100	62.5	-.101	-.109	-.106	-.086	-.073	-.588
101	72.5	-.017	-.016	-.014	.001	.037	-.201
102	86.3	.063	.074	.080	.094	.126	-.014
103	94.5	.132	.144	.148	.159	.187	.096
104	3.0	-.149	-.211	-.223	-.229	-.177	-.131
105	10.0	-.181	-.255	-.287	-.313	-.275	-.217
106	25.0	-.208	-.290	-.345	-.443	-.393	-.361
107	41.0	-.200	-.268	-.313	-.435	-.470	-.444
108	52.5	-.179	-.231	-.266	-.378	-.521	-.588
109	62.5	-.132	-.189	-.208	-.189	-.447	-.537
110	72.5	-.006	-.018	-.020	-.002	-.074	-.224
111	85.1	.051	.054	.057	.071	.078	-.084
112	94.6	.120	.120	.123	.131	.122	-.014
113	3.0	-.158	-.219	-.229	-.242	-.207	-.164
114	10.0	-.158	-.216	-.232	-.243	-.216	-.174
115	25.0	-.207	-.261	-.322	-.369	-.370	-.340
116	41.0	-.212	-.288	-.335	-.426	-.479	-.453
117	52.5	-.181	-.240	-.276	-.349	-.459	-.536
118	62.5	-.121	-.162	-.186	-.201	-.247	-.461
119	72.5	-.032	-.049	-.056	-.072	-.086	-.075
120	87.4	.060	.057	.047	.037	.043	.012
121	94.2	.090	.090	.087	.068	.057	.039
122	3.0	-.103	-.106	-.125	-.137	-.122	
123	10.0	-.143	-.178	-.189	-.202	-.189	
124	25.0	-.198	-.256	-.293	-.325	-.337	
125	41.0	-.210	-.261	-.310	-.354	-.433	
126	52.5	-.168	-.214	-.246	-.281	-.358	
127	62.5	-.128	-.169	-.202	-.233	-.331	
128	72.5	-.077	-.069	-.061	-.045	-.026	
129	78.0	.006	-.001	-.005	-.006	-.002	
130	86.3	.060	.059	.057	.059	.058	
131	94.1	.097	.100	.098	.099	.093	
132	3.0	-.134	-.145	-.151	-.158	-.141	
133	10.0	-.148	-.175	-.187	-.190	-.174	
134	25.0	-.203	-.252	-.293	-.307	-.329	
135	41.0	-.231	-.276	-.317	-.358	-.412	
136	52.5	-.195	-.244	-.277	-.307	-.367	
137	62.5	-.148	-.195	-.224	-.262	-.326	
138	72.5	-.114	-.157	-.154	-.165	-.171	
139	83.4	-.020	-.026	-.032	-.029	-.039	
140	94.0	.058	.058	.055	.050	.054	
141	3.0	-.117	-.113	-.108	-.107	-.080	
142	10.0	-.163	-.185	-.195	-.199	-.182	
143	25.0	-.205	-.252	-.277	-.299	-.304	
144	41.0	-.220	-.271	-.302	-.325	-.391	
145	52.5	-.197	-.242	-.270	-.291	-.332	
146	62.5	-.157	-.200	-.229	-.255	-.340	
147	72.5	-.124	-.171	-.199	-.210	-.142	
148	84.0	-.037	-.047	-.051	-.052	-.065	
149	92.0	.034	.029	.025	.036	.020	
150	3.0	-.131	-.129	-.131	-.132	-.116	
151	10.0	-.131	-.134	-.133	-.126	-.107	
152	25.0	-.167	-.193	-.202	-.198	-.181	
153	41.0	-.215	-.264	-.295	-.315	-.301	
154	52.5	-.195	-.247	-.284	-.332	-.370	
155	62.5	-.131	-.167	-.188	-.203	-.285	
156	72.5	-.087	-.104	-.117	-.122	-.135	
157	84.9	.046	-.087	.036	.038	.021	

NACA

[redacted]

TABLE 60

[$\Lambda = -30^\circ$, $\delta_{a_n} = -5.0^\circ$, $\alpha = 2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.237	-0.241	-0.185	-0.257	-0.479	-0.719
7	59.0	-.191	-.281	-.144	-.143	-.308	-.594
8	67.5	-.124	-.106	-.077	-.055	-.195	-.421
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.945	-.836	-.652	-.486	-.332	-.226
13	6.0	-.682	-.890	-.763	-.628	-.495	-.398
14	15.0	-.485	-.906	-.871	-.770	-.648	-.547
15	27.5	-.418	-.587	-.911	-.872	-.771	-.687
16	40.0	-.381	-.384	-.798	-.838	-.807	-.745
17	50.0	-.335	-.354	-.367	-.775	-.791	-.784
18	59.0	-.263	-.267	-.141	-.502	-.729	-.800
19	67.5	-.171	-.173	-.100	-.232	-.441	-.739
20	77.5	-.094	-.077	-.034	-.081	-.278	-.444
21	88.0	.023	.039	.058	.087	-.015	-.253
22	95.3	--	--	--	--	--	--
C23	2.0	-.535	-.460	-.359	-.248	-.133	-.049
24	6.0	-.482	-.521	-.462	-.382	-.286	-.210
25	15.0	-.456	-.571	-.553	-.484	-.405	-.337
26	27.5	-.439	-.636	-.664	-.629	-.559	-.493
27	40.0	-.421	-.588	-.748	-.735	-.671	-.605
28	50.0	-.361	-.479	-.637	-.760	-.745	-.686
29	59.0	-.329	-.270	-.634	-.769	-.815	-.808
30	67.5	-.184	-.191	-.143	-.544	-.748	-.719
31	77.5	-.107	-.099	-.066	-.115	-.242	-.356
32	88.0	.010	.021	.032	.002	-.089	-.201
33	95.3	--	--	--	--	--	--
D34	2.0	-.463	-.391	-.323	-.233	-.130	-.049
35	15.0	-.416	-.495	-.500	-.452	-.383	-.319
36	27.5	-.410	-.529	-.577	-.566	-.509	-.451
37	40.0	-.416	-.548	-.641	-.679	-.631	-.575
38	50.0	-.375	-.486	-.581	-.701	-.702	-.666
39	59.0	-.297	-.383	-.467	-.573	-.589	-.579
40	67.5	--	--	--	--	--	--
41	77.5	-.110	-.123	-.143	-.176	-.255	-.464
42	87.5	-.015	-.017	-.031	-.072	-.086	-.115
43	94.2	.054	.060	.049	.013	.004	.023
E44	2.0	-.449	-.422	-.328	-.233	-.148	
45	6.0	-.424	-.481	-.441	-.374	-.307	
46	15.0	-.410	-.518	-.517	-.473	-.415	
47	27.5	-.397	-.522	-.574	-.571	-.537	
48	40.0	-.396	-.520	-.590	-.650	-.640	
49	50.0	-.352	-.457	-.523	-.582	-.618	
50	59.0	-.302	-.421	-.493	-.559	-.605	
51	67.5	-.206	-.190	-.195	-.195	-.344	
52	77.5	-.094	-.122	-.138	-.135	-.135	
53	88.5	.083	.071	.059	.050	-.005	
54	95.5	-.056	.046	.054	.032	-.004	
F55	2.0	-.417	-.392	-.311	-.223	-.141	
56	6.0	-.399	-.461	-.434	-.371	-.308	
57	15.0	-.384	-.479	-.488	-.446	-.393	
58	27.5	-.374	-.490	-.540	-.543	-.513	
59	49.0	-.369	-.480	-.537	-.597	-.600	
60	50.0	-.325	-.418	-.476	-.530	-.552	
61	59.0	-.279	-.394	-.457	-.499	-.494	
62	67.5	-.127	-.125	-.131	-.141	-.324	
63	86.5	.021	.027	.020	.024	-.014	
64	94.6	.046	.038	.030	.034	.026	
G65	2.0	-.336	-.319	-.253	-.180	-.110	
66	6.0	-.353	-.406	-.386	-.336	-.283	
67	15.0	-.339	-.419	-.435	-.399	-.357	
68	27.5	-.339	-.435	-.482	-.477	-.456	
69	40.0	-.335	-.430	-.480	-.526	-.560	
70	50.0	-.292	-.388	-.412	-.455	-.492	
71	59.0	-.242	-.339	-.395	-.445	-.488	
72	67.5	-.114	-.131	-.180	-.204	-.425	
73	77.5	.044	.045	.046	.053	.033	
74	87.2	.060	.061	.050	.069	.077	
75	96.8	.074	.079	.060	.081	.080	
H76	2.0	-.276	-.254	-.203	-.139	-.083	
77	6.0	-.320	-.353	-.331	-.287	-.246	
78	15.0	-.289	-.342	-.347	-.324	-.287	
79	27.5	-.302	-.374	-.397	-.415	-.398	
80	40.0	-.298	-.381	-.415	-.421	-.456	
81	50.0	-.271	-.349	-.399	-.438	-.467	
82	59.0	-.199	-.260	-.302	-.308	-.390	
83	67.5	-.104	-.137	-.155	-.174	-.217	
84	88.3	.046	.004	-.004	-.005	-.015	
85	94.2	--	--	--	--	--	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.083	-0.104	-0.110	-0.119	-0.120	-0.464
91	62.5	-.045	-.047	-.045	-.043	-.041	-.198
92	72.5	.001	.005	.009	.008	.009	-.038
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.271	.242	.207	.164	.116	.104
96	10.0	.062	.030	.006	-.027	-.061	-.060
97	25.0	-.088	-.137	-.169	-.223	-.271	-.264
98	41.0	-.135	-.181	-.211	-.257	-.401	-.454
99	52.5	-.120	-.155	-.173	-.202	-.332	-.505
100	62.5	-.071	-.089	-.095	-.104	-.103	-.413
101	72.5	.002	.000	.003	.002	.010	-.167
102	86.3	.076	.085	.092	.097	.092	-.038
103	94.5	.136	.149	.158	.168	.162	.068
104	3.0	.242	.238	.224	.203	.179	.176
105	10.0	.049	.036	.025	.007	-.013	-.009
106	25.0	-.077	-.111	-.134	-.164	-.193	-.191
107	41.0	-.124	-.167	-.195	-.245	-.310	-.342
108	52.5	-.122	-.161	-.184	-.225	-.319	-.407
109	62.5	-.078	-.107	-.128	-.170	-.256	-.347
110	72.5	-.032	-.074	-.070	-.043	-.096	-.143
111	85.1	.064	.076	.079	.070	.049	-.086
112	94.6	.134	.141	.148	.139	.099	-.034
113	3.0	.204	.196	.188	.170	.151	.145
114	10.0	.051	.040	.033	.022	.010	.015
115	25.0	-.078	-.113	-.131	-.155	-.179	-.180
116	41.0	-.129	-.175	-.202	-.241	-.302	-.339
117	52.5	-.120	-.161	-.185	-.224	-.273	-.365
118	63.5	-.088	-.116	-.135	-.170	-.216	-.304
119	72.5	-.006	-.029	-.030	-.050	-.074	-.040
120	87.4	.053	.076	.070	.055	.043	.027
121	94.2	.096	.098	.094	.072	.061	.050
122	3.0	.240	.262	.249	.236	.229	
123	10.0	.058	.057	.058	.049	.048	
124	25.0	-.075	-.096	-.115	-.129	-.150	
125	41.0	-.127	-.163	-.189	-.214	-.249	
126	52.5	-.104	-.126	-.158	-.176	-.214	
127	62.5	-.078	-.103	-.121	-.137	-.170	
128	72.5	-.036	-.064	-.084	-.103	-.138	
129	78.0	-.006	-.015	-.014	-.004	-.004	
130	85.3	.085	.088	.085	.063	.070	
131	94.1	.111	.113	.108	.107	.083	
132	3.0	.213	.237	.226	.224	.213	
133	10.0	.051	.060	.053	.049	.049	
134	25.0	-.080	-.098	-.115	-.126	-.138	
135	41.0	-.134	-.168	-.195	-.216	-.253	
136	52.5	-.135	-.169	-.194	-.213	-.240	
137	62.5	-.101	-.128	-.147	-.154	-.193	
138	72.5	-.064	-.089	-.110	-.129	-.163	
139	83.4	-.048	-.066	-.066	-.047	-.048	
140	94.0	.067	.067	.062	.063	.053	
141	3.0	.203	.237	.234	.233	.236	
142	10.0	.026	.037	.033	.034	.038	
143	25.0	-.092	-.091	-.123	-.131	-.140	
144	41.0	-.146	-.179	-.201	-.215	-.238	
145	52.5	-.144	-.178	-.200	-.214	-.241	
146	62.5	-.115	-.145	-.163	-.186	-.210	
147	72.5	-.091	-.110	-.126	-.137	-.158	
148	84.0	-.055	-.065	-.072	-.077	-.080	
149	92.0	.041	.040	.035	.037	.032	
150	3.0	.158	.192	.193	.197	.208	
151	10.0	.024	.045	.049	.060	.075	
152	25.0	-.080	-.096	-.090	-.085	-.073	
153	41.0	-.159	-.195	-.215	-.226	-.231	
154	52.5	-.162	-.204	-.231	-.256	-.309	
155	62.5	-.117	-.146	-.161	-.171	-.207	
156	72.5	-.077	-.101	-.105	-.114	-.123	
157	84.9	.051	.044	.039	.038	.036	

NACA

[redacted]

TABLE 61

$[\Lambda = -30^\circ,\ \delta_{a_n} = -5.0^\circ,\ \alpha = 4^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.228	-0.330	-0.519	-0.525	-0.417	-0.702
7	59.0	-.193	-.225	-.461	-.508	-.385	-.575
8	67.5	-.133	-.143	-.385	-.464	-.342	-.455
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-1.803	-1.268	-1.136	-.904	-.735	-.591
13	6.0	-1.074	-1.185	-1.003	-.914	-.845	-.713
14	15.0	-.785	-.861	-.621	-.688	-.902	-.793
15	27.5	-.534	-.617	-.569	-.565	-.936	-.856
16	40.0	-.434	-.624	-.487	-.549	-.888	-.861
17	50.0	-.366	-.488	-.454	-.429	-.768	-.879
18	59.0	-.281	-.341	-.397	-.388	-.616	-.899
19	67.5	-.180	-.227	-.303	-.321	-.519	-.850
20	77.5	-.095	-.117	-.209	-.335	-.409	-.587
21	88.0	.014	-.005	-.082	-.179	-.263	-.436
22	95.3	--	--	--	--	--	--
C23	2.0	-1.287	-.983	-.754	-.582	-.454	-.338
24	6.0	-.937	-1.077	-.886	-.733	-.615	-.500
25	15.0	-.663	-1.024	-.890	-.762	-.696	-.549
26	27.5	-.570	-.890	-.910	-.826	-.736	-.639
27	40.0	-.501	-.643	-.824	-.798	-.824	-.736
28	50.0	-.412	-.468	-.545	-.697	-.815	-.790
29	59.0	-.337	-.377	-.422	-.640	-.817	-.836
30	67.5	-.225	-.246	-.171	-.509	-.821	-.767
31	77.5	-.121	-.131	-.092	-.088	-.289	-.495
32	88.0	-.006	-.016	-.084	.003	-.174	-.287
33	95.3	--	--	--	--	--	--
D34	2.0	-1.086	-.913	-.709	-.555	-.440	-.332
35	15.0	-.608	-.865	-.820	-.705	-.609	-.507
36	27.5	-.527	-.755	-.837	-.760	-.682	-.594
37	40.0	-.497	-.701	-.883	-.864	-.794	-.707
38	50.0	-.426	-.560	-.823	-.858	-.807	-.768
39	59.0	-.324	-.500	-.376	-.697	-.720	-.697
40	67.5	--	--	--	--	--	--
41	77.5	-.133	-.145	-.136	-.202	-.442	-.598
42	87.5	-.026	-.031	-.013	-.038	-.078	-.175
43	94.2	.033	.027	.054	.032	-.013	.016
E44	2.0	-1.127	-.971	-.798	-.618	-.466	
45	6.0	-.834	-1.053	-.913	-.758	-.620	
46	15.0	-.595	-.886	-.891	-.758	-.638	
47	27.5	-.523	-.733	-.906	-.809	-.713	
48	40.0	-.481	-.596	-.832	-.826	-.783	
49	50.0	-.408	-.492	-.798	-.786	-.729	
50	59.0	-.326	-.382	-.349	-.739	-.717	
51	67.5	-.232	-.266	-.253	-.303	-.430	
52	77.5	-.120	-.137	-.136	-.133	-.185	
53	88.5	.013	.018	.036	-.030	-.123	
54	95.5	.027	.019	.030	-.030	-.150	
F55	2.0	-1.059	-.950	-.789	-.621	-.473	
56	6.0	-.769	-1.006	-.881	-.732	-.598	
57	15.0	-.573	-.820	-.868	-.747	-.633	
58	27.5	-.491	-.684	-.863	-.785	-.694	
59	49.0	-.450	-.590	-.787	-.749	-.678	
60	50.0	-.378	-.456	-.702	-.700	-.670	
61	59.0	-.289	-.334	-.350	-.530	-.487	
62	67.5	-.182	-.208	-.201	-.374	-.426	
63	86.5	.001	.004	.004	-.008	-.237	
64	94.5	.033	.019	.025	.025	-.122	
G65	2.0	-.925	-.864	-.729	-.571	-.434	
66	6.0	-.689	-.914	-.843	-.702	-.576	
67	15.0	-.525	-.686	-.794	-.693	-.593	
68	27.5	-.449	-.607	-.706	-.673	-.621	
69	40.0	-.413	-.554	-.660	-.660	-.642	
70	50.0	-.349	-.460	-.610	-.619	-.589	
71	59.0	-.242	-.280	-.350	-.614	-.589	
72	67.5	-.146	-.173	-.162	-.248	-.556	
73	77.5	.004	.001	.003	.030	-.126	
74	87.2	.040	.035	.041	.055	.065	
75	96.8	.071	.075	.072	.078	.086	
H76	2.0	-.739	-.749	-.660	-.515	-.391	
77	6.0	-.591	-.710	-.724	-.610	-.509	
78	15.0	-.438	-.576	-.557	-.522	-.475	
79	27.5	-.393	-.494	-.576	-.540	-.490	
80	40.0	-.358	-.459	-.511	-.557	-.545	
81	50.0	-.310	-.403	-.485	-.505	-.556	
82	59.0	-.226	-.290	-.332	-.385	-.445	
83	67.5	-.132	-.172	-.194	-.212	-.275	
84	88.3	.001	-.018	-.036	-.040	-.047	
85	94.2	--	--	--	--	--	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.049	-0.080	-0.113	-0.150	-0.181	-0.405
91	62.5	-.028	-.041	-.067	-.092	-.083	-.250
92	72.5	.011	.004	-.026	-.056	-.047	-.094
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.572	.532	.497	.458	.430	.407
96	10.0	.253	.229	.206	.180	.161	.155
97	25.0	.017	-.021	-.051	-.091	-.123	-.131
98	41.0	-.071	-.116	-.152	-.203	-.278	-.304
99	52.5	-.077	-.115	-.148	-.192	-.276	-.368
100	62.5	-.041	-.066	-.093	-.122	-.181	-.330
101	72.5	.017	.008	-.013	-.035	-.045	-.165
102	86.3	.080	.082	.056	.036	.038	-.101
103	94.5	.131	.136	.097	.066	.084	-.027
104	3.0	.519	.502	.482	.455	.438	.422
105	10.0	.239	.234	.220	.199	.189	.182
106	25.0	.043	.024	.004	-.020	-.038	-.041
107	41.0	-.048	-.083	-.107	-.148	-.190	-.199
108	52.5	-.068	-.105	-.132	-.176	-.244	-.265
109	62.5	-.042	-.067	-.088	-.123	-.189	-.241
110	72.5	.010	-.015	-.038	-.078	-.139	-.184
111	85.1	.089	.092	.086	.071	.027	-.031
112	94.6	.135	.140	.137	.123	.060	-.006
113	3.0	.469	.457	.440	.414	.399	.384
114	10.0	.227	.227	.218	.202	.193	.189
115	25.0	.037	.022	.008	-.014	-.030	-.037
116	41.0	-.049	-.080	-.101	-.134	-.167	-.201
117	52.5	-.061	-.091	-.114	-.152	-.193	-.207
118	62.5	-.031	-.062	-.080	-.113	-.158	-.178
119	72.5	.010	-.011	-.004	-.031	-.069	-.073
120	87.4	.103	.101	.099	.074	.040	.024
121	94.2	.108	.104	.099	.077	.035	.038
122	3.0	.497	.498	.504	.475	.452	
123	10.0	.336	.246	.256	.236	.220	
124	25.0	.043	.037	.037	.017	-.005	
125	41.0	-.044	-.066	-.075	-.101	-.140	
126	52.5	-.044	-.064	-.074	-.099	-.136	
127	62.5	-.036	-.054	-.061	-.083	-.124	
128	72.5	.004	-.009	-.015	-.036	-.078	
129	78.0	.028	.017	.013	-.009	-.052	
130	85.3	.073	.052	.050	.030	-.019	
131	94.1	.117	.128	.135	.117	.066	
132	3.0	.476	.483	.491	.465	.441	
133	10.0	.226	.240	.251	.234	.219	
134	25.0	.034	.033	.037	.018	.001	
135	41.0	-.052	-.072	-.080	-.103	-.135	
136	52.5	-.075	-.098	-.110	-.135	-.171	
137	62.5	-.057	-.075	-.103	-.132	-.138	
138	72.5	-.032	-.045	-.053	-.071	-.100	
139	83.4	-.026	-.036	-.045	-.050	-.084	
140	94.0	.066	.062	.061	.028	.015	
141	3.0	.454	.475	.490	.470	.454	
142	10.0	.209	.215	.230	.215	.208	
143	25.0	.017	.027	.023	.009	-.003	
144	41.0	-.072	-.088	-.094	-.113	-.135	
145	52.5	-.092	-.109	-.119	-.138	-.164	
146	62.5	-.079	-.080	-.092	-.122	-.143	
147	72.5	-.054	-.072	-.081	-.093	-.112	
148	84.0	-.047	-.060	-.075	-.087	-.107	
149	92.0	.043	.032	.027	.023	.021	
150	3.0	.403	.434	.456	.440	.432	
151	10.0	.171	.201	.224	.220	.223	
152	25.0	.010	.018	.031	.027	.031	
153	41.0	-.100	-.117	-.124	-.138	-.149	
154	52.5	-.120	-.150	-.166	-.189	-.227	
155	62.5	-.089	-.100	-.127	-.147	-.091	
156	72.5	-.059	-.085	-.111	-.111	-.048	
157	84.9	.044	.037	.066	.028	.023	

NACA

[redacted]

TABLE 62

[$\Lambda = -30^\circ$, $\delta_{a_n} = -5.0^\circ$, $\alpha = 7^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.92	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.490	-0.554	-0.559	-0.566	-0.583	-0.704
7	59.0	-.415	-.559	-.571	-.579	-.594	-.700
8	67.5	-.338	-.532	-.560	-.577	-.593	-.680
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.658	-1.421	-1.276	-1.250	-1.089	-1.004
13	6.0	-.671	-1.308	-1.198	-1.084	-.977	-.937
14	15.0	-.685	-.500	-.493	-.504	-.635	-.820
15	27.5	-.721	-.493	-.504	-.523	-.548	-.742
16	40.0	-.672	-.504	-.516	-.531	-.567	-.728
17	50.0	-.587	-.511	-.520	-.525	-.565	-.708
18	59.0	-.520	-.502	-.516	-.526	-.540	-.618
19	67.5	-.428	-.453	-.489	-.493	-.490	-.513
20	77.5	-.322	-.358	-.403	-.424	-.403	-.460
21	88.0	-.178	-.224	-.266	-.274	-.286	-.498
22	95.3	--	--	--	--	--	--
C23	2.0	-1.417	-1.489	-1.227	-1.026	-.861	-.732
24	6.0	-1.291	-1.419	-1.211	-1.056	-.920	-.805
25	15.0	-.860	-1.305	-1.110	-1.021	-.918	-.817
26	27.5	-.603	-.795	-.962	-.957	-.909	-.862
27	40.0	-.547	-.536	-.648	-.783	-.867	-.859
28	50.0	-.473	-.419	-.527	-.642	-.768	-.821
29	59.0	-.409	-.349	-.436	-.542	-.651	-.817
30	67.5	-.295	-.281	-.367	-.457	-.566	-.768
31	77.5	-.198	-.227	-.337	-.439	-.555	-.723
32	88.0	-.089	-.132	-.212	-.278	-.463	-.577
33	95.3	--	--	--	--	--	--
D34	2.0	-2.006	-1.407	-1.137	-.936	-.785	-.667
35	15.0	-.810	-1.310	-1.128	-.990	-.875	-.774
36	27.5	-.639	-1.208	-1.090	-1.012	-.913	-.821
37	40.0	-.550	-.790	-1.067	-.986	-.937	-.875
38	50.0	-.452	-.560	-.910	-.974	-.918	-.857
39	59.0	-.335	-.376	-.574	-.815	-.833	-.788
40	67.5	--	--	--	--	--	--
41	77.5	-.142	-.102	-.131	-.210	-.545	-.673
42	87.5	-.068	-.043	-.102	-.155	-.166	-.261
43	94.2	-.039	-.006	-.083	-.145	-.172	-.198
E44	2.0	-1.956	-1.445	-1.206	-1.025	-.867	
45	6.0	-1.679	-1.420	-1.222	-1.076	-.935	
46	15.0	-.904	-1.331	-1.167	-1.033	-.918	
47	27.5	-.641	-1.245	-1.094	-.998	-.935	
48	40.0	-.541	-.839	-1.016	-.957	-.875	
49	50.0	-.438	-.567	-.823	-.862	-.860	
50	59.0	-.333	-.383	-.676	-.744	-.747	
51	67.5	-.233	-.229	-.335	-.461	-.570	
52	77.5	-.140	-.114	-.212	-.252	-.274	
53	88.5	-.054	-.039	-.177	-.262	-.302	
54	95.5	-.037	-.037	-.170	-.280	-.345	
F55	2.0	-1.913	-1.450	-1.206	-1.027	-.866	
56	6.0	-1.456	-1.401	-1.202	-1.051	-.908	
57	15.0	-.825	-1.333	-1.156	-1.026	-.908	
58	27.5	-.625	-1.213	-1.091	-.999	-.915	
59	40.0	-.521	-.867	-.952	-.929	-.871	
60	50.0	-.412	-.493	-.611	-.602	-.589	
61	59.0	-.302	-.359	-.568	-.559	-.537	
62	67.5	-.197	-.239	-.500	-.539	-.532	
63	86.5	-.052	-.028	-.212	-.481	-.560	
64	94.6	-.014	.010	-.066	-.352	-.471	
G65	2.0	-1.574	-1.418	-1.170	-.974	-.830	
66	6.0	-1.361	-1.382	-1.178	-1.025	-.881	
67	15.0	-.749	-1.264	-1.121	-1.002	-.878	
68	27.5	-.592	-1.190	-1.029	-.982	-.898	
69	40.0	-.495	-.759	-1.013	-.920	-.838	
70	50.0	-.395	-.419	-.917	-.910	-.832	
71	59.0	-.276	-.296	-.561	-.849	-.835	
72	67.5	-.173	-.183	-.391	-.647	-.750	
73	77.5	-.059	-.053	-.026	-.015	-.466	
74	87.2	-.012	-.014	.029	.035	.069	
75	98.8	.024	.027	.062	.063	.082	
H76	2.0	-1.641	-1.316	-1.082	-.922	-.775	
77	6.0	-.928	-1.301	-1.100	-.958	-.823	
78	15.0	-.632	-1.086	-1.002	-.911	-.808	
79	27.5	-.525	-.668	-.796	-.804	-.760	
80	40.0	-.440	-.582	-.691	-.703	-.669	
81	50.0	-.369	-.479	-.608	-.664	-.656	
82	59.0	-.270	-.349	-.441	-.598	-.573	
83	67.5	-.177	-.235	-.261	-.317	-.350	
84	88.3	-.036	-.075	-.102	-.121	-.134	
85	94.2	.038	--	--	--	--	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.92	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.042	-0.084	-0.132	-0.173	-0.220	-0.289
91	62.5	-.035	-.079	-.107	-.128	-.143	-.175
92	72.5	-.016	-.064	-.093	-.112	-.120	-.044
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.723	.743	.720	.701	.682	.311
96	10.0	.392	.403	.384	.373	.360	-.029
97	25.0	.104	.040	.066	.046	.031	.039
98	41.0	-.015	-.057	-.092	-.126	-.158	-.184
99	52.5	-.048	-.093	-.128	-.167	-.215	-.248
100	62.5	-.033	-.074	-.105	-.135	-.163	-.243
101	72.5	.009	-.028	-.052	-.071	-.081	-.129
102	86.3	.037	.001	-.020	-.031	-.037	-.046
103	94.5	.050	.002	-.020	-.037	-.045	-.035
104	3.0	.710	.707	.685	.675	.665	-.147
105	10.0	.416	.418	.403	.394	.386	.04
106	25.0	.163	.158	.141	.129	.122	.06
107	41.0	.023	.003	-.024	-.040	-.066	-.063
108	52.5	-.019	-.052	-.086	-.114	-.151	-.160
109	62.5	-.018	-.044	-.077	-.109	-.141	-.171
110	72.5	.023	.003	-.023	-.040	-.074	-.107
111	85.1	.059	.058	.029	.017	.024	-.028
112	94.6	.087	.083	.070	.063	.075	.027
113	3.0	.693	.670	.691	.637	.627	-.117
114	10.0	.416	.411	.389	.390	.384	.037
115	25.0	.170	.166	.152	.140	.133	.066
116	41.0	.041	.025	.003	-.019	-.033	-.028
117	52.5	.004	-.016	-.043	-.073	-.04	-.041
118	62.5	.004	-.008	-.044	-.078	-.101	-.104
119	72.5	.038	.033	.004	-.024	-.046	-.056
120	87.4	.093	.137	.070	.051	.04	.030
121	94.2	.073	.094	.052	.019	-.003	-.007
122	3.0	.710	.700	.694	.682	.674	
123	10.0	.423	.430	.426	.419	.414	
124	25.0	.179	.184	.178	.162	.163	
125	41.0	.050	.045	.033	.018	.005	
126	52.5	.023	.017	.002	-.016	-.031	
127	62.5	.008	.003	-.017	-.030	-.057	
128	72.5	.028	.029	.008	-.018	-.038	
129	78.0	.046	.048	.035	-.002	-.022	
130	85.3	.078	.093	.068	.035	.016	
131	94.1	.086	.122	.084	.029	.011	
132	3.0	.700	.705	.689	.678	.671	
133	10.0	.416	.427	.427	.419	.416	
134	25.0	.171	.182	.188	.172	.169	
135	41.0	.046	.044	.033	.021	.011	
136	52.5	-.003	-.012	-.026	-.041	-.056	
137	62.5	-.004	-.014	-.021	-.043	-.057	
138	72.5	-.003	-.005	-.019	-.031	-.044	
139	83.4	-.009	-.013	-.019	-.032	-.052	
140	94.0	.043	.060	.039	-.025	-.013	
141	3.0	.687	.691	.689	.680	.677	
142	10.0	.390	.409	.412	.406	.407	
143	25.0	.156	.172	.171	.166	.164	
144	41.0	.026	.027	.019	.010	.004	
145	52.5	.016	-.021	-.033	-.044	-.053	
146	62.5	-.022	-.021	-.042	-.047	-.058	
147	72.5	-.020	-.027	-.029	-.046	-.054	
148	84.0	-.019	-.060	-.074	-.072	-.089	
149	92.0	.037	.037	.033	.039	.037	
150	3.0	.656	.676	.678	.674	.674	
151	10.0	.356	.392	.400	.402	.410	
152	25.0	.130	.159	.164	.167	.170	
153	41.0	-.014	-.011	-.018	-.023	-.022	
154	52.5	-.060	-.073	-.089	-.103	-.113	
155	62.5	-.046	-.062	-.07	-.09	-.10	
156	72.5	-.043	-.064	-.084	-.106	-.111	
157	84.9	.030	.03	.00	-.006	-.006	

NACA

[redacted]

TABLE 63

$\left[A = -30^{\circ},\ \delta_{a_n} = 5.0^{\circ},\ \alpha = -2^{\circ}\right]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
A 1	2.0	--	--	--	--		
2	6.0	--	--	--	--		
3	15.0	--	--	--	--		
4	27.5	--	--	--	--		
5	40.0	--	--	--	--		
6	50.0	-0.191	-0.225	-0.235	-0.218		
7	59.0	-.157	-.177	-.171	-.134		
8	67.5	-.098	-.094	-.092	-.069		
9	77.5	--	--	--	--		
10	87.5	--	--	--	--		
11	96.0	--	--	--	--		
B12	2.0	.387	.418	.329	.425		
13	6.0	.086	.095	.093	.098		
14	15.0	-.112	-.157	-.180	-.189		
15	27.5	-.208	-.290	-.349	-.396		
16	40.0	-.252	-.333	-.394	-.534		
17	50.0	-.244	-.313	-.349	-.499		
18	59.0	-.208	-.259	-.300	-.459		
19	67.5	-.157	-.219	-.159	-.065		
20	77.5	-.046	-.054	-.055	-.023		
21	88.0	.053	.057	.062	.074		
22	95.3	--	--	--	--		
C23	2.0	.376	.423	.433	.442		
24	6.0	.107	.140	.151	.162		
25	15.0	-.082	-.088	-.087	-.080		
26	27.5	-.193	-.240	-.262	-.272		
27	40.0	-.256	-.337	-.395	-.458		
28	50.0	-.224	-.323	-.336	-.534		
29	59.0	-.223	-.280	-.326	-.464		
30	67.5	-.164	-.226	-.268	-.350		
31	77.5	-.071	-.077	-.082	-.089		
32	88.0	.038	.038	.040	-.048		
33	95.3	--	--	--	--		
D34	2.0	.323	.374	.386	.398		
35	15.0	-.082	-.081	-.079	-.072		
36	27.5	-.184	-.220	-.234	-.244		
37	40.0	-.256	-.324	-.364	-.414		
38	50.0	-.257	-.329	-.374	-.466		
39	59.0	-.168	-.265	-.331	-.430		
40	67.5	--	--	--	--		
41	77.5	-.074	-.054	-.060	-.096		
42	87.5	.010	.003	-.003	-.028		
43	94.2	.070	.070	.066	.046		
E44	2.0	.283	.330	.350	.370		
45	6.0	.044	-.068	.086	.106		
46	15.0	-.117	-.133	-.127	-.115		
47	27.5	-.212	-.263	-.277	-.278		
48	40.0	-.273	-.356	-.398	-.436		
49	50.0	-.272	-.355	-.402	-.490		
50	59.0	-.239	-.307	-.345	-.421		
51	67.5	-.187	-.262	-.309	-.380		
52	77.5	-.125	-.078	-.047	-.062		
53	88.5	.123	.122	.118	.109		
54	95.5	.070	.067	.067	.062		
F55	2.0	.279	.328	.351	.371		
56	6.0	.041	.067	.087	.107		
57	15.0	-.117	-.126	-.119	-.106		
58	27.5	-.215	-.260	-.270	-.268		
59	40.0	-.282	-.362	-.398	-.429		
60	50.0	-.283	-.367	-.413	-.486		
61	59.0	-.259	-.329	-.365	-.421		
62	67.5	-.222	-.286	-.325	-.382		
63	86.5	-.060	-.064	-.053	-.049		
64	94.5	.040	.043	.042	.042		
G65	2.0	.290	.350	.373	.395		
66	6.0	.047	.082	.103	.123		
67	15.0	-.105	-.103	-.094	-.079		
68	27.5	-.209	-.241	-.247	-.243		
69	40.0	-.278	-.343	-.371	-.351		
70	50.0	-.289	-.354	-.404	-.450		
71	59.0	-.256	-.319	-.354	-.384		
72	67.5	-.222	-.275	-.305	-.346		
73	77.5	-.179	-.230	-.263	-.305		
74	87.2	-.152	-.172	-.139	-.086		
75	96.8	.077	-.319	.051	.045		
H76	2.0	.261	.315	.337	.360		
77	6.0	.041	.077	.095	.117		
78	15.0	-.083	-.078	-.067	-.054		
79	27.5	-.195	-.203	-.203	-.200		
80	40.0	-.242	-.284	-.296	-.301		
81	50.0	-.255	-.311	-.337	-.365		
82	59.0	-.217	-.266	-.285	-.306		
83	67.5	-.169	-.207	-.225	-.247		
84	88.3	-.052	-.075	-.086	-.096		
85	94.2						

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
86	3.0	--	--	--	--		
87	10.0	--	--	--	--		
88	25.0	--	--	--	--		
89	41.0	--	--	--	--		
90	52.5	-0.108	-0.104	-0.054	-0.150		
91	62.5	-.079	-.068	-.056	-.020		
92	72.5	-.023	-.008	.000	.025		
93	84.0	--	--	--	--		
94	94.0	--	--	--	--		
95	3.0	-.842	-1.009	-1.000	-.864		
96	10.0	-.392	-.688	-.993	-.942		
97	25.0	-.290	-.357	-.619	-.853		
98	41.0	-.249	-.277	-.211	-.639		
99	52.5	-.187	-.197	-.178	-.087		
100	62.5	-.122	-.120	-.104	-.014		
101	72.5	-.038	-.026	.016	.032		
102	86.3	.053	.068	.078	.108		
103	94.5	.115	.128	.136	.163		
104	3.0	-.554	-.734	-.752	-.656		
105	10.0	-.384	-.520	-.520	-.648		
106	25.0	-.310	-.435	-.526	-.572		
107	41.0	-.247	-.308	-.444	-.597		
108	52.5	-.223	-.259	-.251	-.545		
109	62.5	-.148	-.167	-.153	-.274		
110	72.5	-.048	-.050	-.037	-.019		
111	85.1	.037	.044	.051	.075		
112	94.6	.099	.107	.111	.122		
113	3.0	-.494	-.647	-.698	-.627		
114	10.0	-.333	-.427	-.483	-.565		
115	25.0	-.300	-.396	-.447	-.530		
116	41.0	-.269	-.351	-.409	-.486		
117	52.5	-.214	-.270	-.317	-.371		
118	62.5	-.138	-.172	-.197	-.240		
119	72.5	-.052	-.075	-.079	-.119		
120	87.4	.083	.047	-.044	.026		
121	94.2	.079	.033	-.073	.050		
122	3.0	-.352	-.421	-.451	-.471		
123	10.0	-.266	-.326	-.349	-.360		
124	25.0	-.257	-.327	-.368	-.408		
125	41.0	-.245	-.288	-.318	-.354		
126	52.5	-.175	-.225	-.232	-.269		
127	62.5	-.123	-.141	-.148	-.149		
128	72.5	-.043	-.062	-.072	-.087		
129	78.0	-.003	-.013	-.012	-.031		
130	85.3	.051	.047	.041	.032		
131	94.1	.088	.088	.085	.077		
132	3.0	-.356	-.432	-.471	-.478		
133	10.0	-.253	-.314	-.339	-.357		
134	25.0	-.239	-.305	-.340	-.394		
135	41.0	-.179	-.270	-.302	-.330		
136	52.5	-.163	-.214	-.243	-.274		
137	62.5	-.095	-.078	-.074	-.074		
138	72.5	.036	.030	.028	.026		
139	83.4	.126	.131	.130	.129		
140	94.0	.086	.083	.078	.071		
141	3.0	-.309	-.376	-.399	-.396		
142	10.0	-.247	-.316	-.348	-.358		
143	25.0	-.220	-.292	-.331	-.382		
144	41.0	-.187	-.245	-.274	-.303		
145	52.5	-.140	-.192	-.220	-.255		
146	62.5	-.070	-.069	-.059	-.055		
147	72.5	.053	.043	.039	.037		
148	84.0	.141	.142	.144	.143		
149	92.0	.104	.104	.103	.100		
150	3.0	-.350	-.413	-.437	-.443		
151	10.0	-.209	-.251	-.265	-.266		
152	25.0	-.185	-.232	-.246	-.247		
153	41.0	-.199	-.269	-.312	-.349		
154	52.5	-.157	-.215	-.247	-.306		
155	62.5	-.067	-.100	-.124	-.141		
156	72.5	.044	.032	.026	.020		
157	84.9	.058	.045	.038	.033		

NACA

[redacted]

TABLE 64

[$\Lambda = -30^\circ$, $\delta_{a_n} = 5.0^\circ$, $\alpha = 0^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.222	-0.236	-0.224	-0.224	-0.561	-0.701
7	59.0	-.179	-.180	-.173	-.126	-.302	-.669
8	67.5	-.114	-.108	-.098	-.051	-.171	-.492
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.200	-.186	.074	-.012	.060	.145
13	6.0	-.288	-.371	-.341	-.266	-.188	-.115
14	15.0	-.311	-.447	-.528	-.479	-.416	-.343
15	27.5	-.328	-.442	-.598	-.602	-.554	-.486
16	40.0	-.330	-.413	-.552	-.690	-.668	-.597
17	50.0	-.302	-.365	-.370	-.645	-.689	-.704
18	59.0	-.255	-.273	-.209	-.470	-.655	-.742
19	67.5	-.196	-.165	-.147	-.215	-.495	-.739
20	77.5	-.075	-.074	-.062	-.026	-.206	-.592
21	88.0	.040	.052	.058	.107	.048	-.203
22	95.3	--	--	--	--	--	--
C23	2.0	-.049	.004	.050	.111	.172	.239
24	6.0	-.187	-.187	-.160	-.111	-.053	.010
25	15.0	-.282	-.342	-.337	-.296	-.243	-.180
26	27.5	-.330	-.441	-.472	-.480	-.411	-.347
27	40.0	-.351	-.476	-.618	-.616	-.567	-.499
28	50.0	-.314	-.403	-.530	-.693	-.702	-.638
29	59.0	-.276	-.363	-.508	-.672	-.745	-.731
30	67.5	-.223	-.188	-.132	-.388	-.670	-.662
31	77.5	-.091	-.096	-.083	-.088	-.186	-.488
32	88.0	.021	.028	.038	.034	-.065	-.184
33	95.3	--	--	--	--	--	--
D34	2.0	-.056	.005	.040	.089	.145	.206
35	15.0	-.265	-.307	-.306	-.275	-.229	-.172
36	27.5	-.314	-.337	-.432	-.417	-.377	-.320
37	40.0	-.354	-.464	-.552	-.570	-.529	-.469
38	50.0	-.331	-.426	-.508	-.630	-.643	-.591
39	59.0	-.262	-.350	-.425	-.541	-.588	-.570
40	67.5	-.018	--	--	--	--	--
41	77.5	-.087	-.096	-.114	-.126	-.355	-.529
42	87.5	-.006	-.009	-.015	-.031	-.053	-.202
43	94.2	.063	.068	.061	.044	.029	.013
E44	2.0	-.126	-.078	-.023	.041	.088	
45	6.0	-.234	-.242	-.209	-.160	-.122	
46	15.0	-.301	-.331	-.359	-.323	-.293	
47	27.5	-.338	-.441	-.469	-.451	-.427	
48	40.0	-.370	-.494	-.584	-.586	-.562	
49	50.0	-.344	-.451	-.548	-.661	-.660	
50	59.0	-.294	-.392	-.498	-.618	-.599	
51	67.5	-.249	-.363	-.365	-.506	-.585	
52	77.5	-.070	-.088	-.097	-.106	-.423	
53	88.5	.099	.092	.086	.096	-.079	
54	95.5	.061	.061	.057	.054	.003	
F55	2.0	-.129	-.072	-.018	.043	.090	
56	6.0	-.234	-.234	-.201	-.157	-.121	
57	15.0	-.295	-.344	-.337	-.306	-.282	
58	27.5	-.339	-.425	-.451	-.435	-.414	
59	49.0	-.377	-.492	-.571	-.569	-.549	
60	50.0	-.354	-.459	-.540	-.656	-.670	
61	59.0	-.312	-.404	-.486	-.589	-.634	
62	67.5	-.271	-.374	-.458	-.572	-.616	
63	86.5	-.042	-.054	-.058	-.070	-.147	
64	94.6	.038	.040	.037	.031	-.024	
G65	2.0	-.092	-.016	.036	.089	.123	
66	6.0	-.211	-.194	-.118	-.123	-.096	
67	15.0	-.268	-.297	-.288	-.265	-.247	
68	27.5	-.321	-.387	-.402	-.387	-.372	
69	40.0	-.360	-.454	-.500	-.514	-.501	
70	50.0	-.350	-.439	-.499	-.578	-.621	
71	59.0	-.304	-.380	-.434	-.505	-.586	
72	67.5	-.264	-.349	-.407	-.480	-.553	
73	77.5	-.225	-.286	-.288	-.278	-.451	
74	87.2	-.042	-.052	-.060	-.072	-.096	
75	96.8	.057	.048	.042	.037	.011	
H76	2.0	-.053	.014	.054	.097	.122	
77	6.0	-.175	-.154	-.130	-.100	-.081	
78	15.0	-.216	-.227	-.222	-.204	-.194	
79	27.5	-.271	-.308	-.319	-.318	-.325	
80	40.0	-.297	-.351	-.374	-.371	-.404	
81	50.0	-.294	-.356	-.395	-.417	-.434	
82	59.0	-.244	-.292	-.321	-.347	-.392	
83	67.5	-.185	-.221	-.246	-.271	-.305	
84	88.3	-.067	-.186	-.109	-.121	-.158	
85	94.2	--	--	--	--	--	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.062	-0.098	-0.103	-0.099	-0.079	-0.547
91	62.5	-.058	-.053	-.052	-.048	-.022	-.275
92	72.5	-.010	-.005	.000	.003	.026	-.066
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	-.130	-.185	-.226	-.265	-.267	-.245
96	10.0	-.143	-.199	-.245	-.330	-.376	-.367
97	25.0	-.184	-.245	-.291	-.390	-.458	-.447
98	41.0	-.189	-.232	-.259	-.321	-.499	-.546
99	52.5	-.157	-.185	-.202	-.165	-.421	-.605
100	62.5	-.095	-.104	-.099	-.088	-.060	-.542
101	72.5	-.009	-.007	-.004	.000	.029	-.228
102	86.3	.071	.082	.086	.095	.109	-.055
103	94.6	.132	.147	.151	.161	.172	.055
104	3.0	-.066	-.077	-.091	-.105	-.105	-.091
105	10.0	-.130	-.166	-.190	-.217	-.217	-.190
106	25.0	-.180	-.234	-.274	-.321	-.328	-.329
107	41.0	-.177	-.228	-.265	-.344	-.413	-.414
108	52.5	-.166	-.204	-.232	-.295	-.422	-.488
109	62.5	-.117	-.159	-.190	-.245	-.369	-.446
110	72.5	-.003	.007	.005	.010	-.037	-.219
111	85.1	.041	.061	.063	.066	.047	-.113
112	94.6	.123	.133	.144	.134	.100	-.061
113	3.0	-.062	-.079	-.094	-.111	-.121	-.120
114	10.0	-.104	-.129	-.145	-.159	-.159	-.146
115	25.0	-.171	-.219	-.232	-.281	-.300	-.316
116	41.0	-.166	-.238	-.274	-.326	-.371	-.423
117	52.5	-.157	-.200	-.229	-.277	-.334	-.380
118	62.5	-.105	-.136	-.158	-.196	-.266	-.297
119	72.5	-.019	-.129	-.043	-.063	-.096	-.104
120	87.4	.071	.068	.062	.048	.015	.011
121	94.2	.094	.097	.094	.082	.051	.037
122	3.0	.043	.048	.035	.021	.008	
123	10.0	-.053	-.060	-.072	-.063	-.092	
124	25.0	-.132	-.161	-.183	-.206	-.232	
125	41.0	-.151	-.182	-.206	-.232	-.262	
126	52.5	-.113	-.137	-.153	-.173	-.196	
127	62.5	-.078	-.101	-.118	-.139	-.168	
128	72.5	-.043	-.034	-.031	-.031	-.042	
129	78.0	.033	.026	.018	.009	-.008	
130	85.3	.079	.079	.075	.068	.054	
131	94.1	.103	.107	.103	.098	.079	
132	3.0	.034	.032	.019	.005	-.007	
133	10.0	-.045	-.056	-.070	-.080	-.088	
134	25.0	-.119	-.151	-.169	-.191	-.173	
135	41.0	-.130	-.163	-.186	-.210	-.242	
136	52.5	-.100	-.122	-.139	-.157	-.181	
137	62.5	-.053	-.082	-.105	-.128	-.158	
138	72.5	.086	.094	.093	.092	.090	
139	83.4	.150	.160	.162	.163	.161	
140	94.0	.099	.095	.091	.081	.064	
141	3.0	.051	.046	.037	.030	.030	
142	10.0	-.052	-.073	-.087	-.098	-.104	
143	25.0	-.112	-.149	-.172	-.195	-.227	
144	41.0	-.118	-.154	-.174	-.197	-.223	
145	52.5	-.075	-.110	-.126	-.145	-.167	
146	62.5	-.043	-.073	-.095	-.115	-.144	
147	72.5	.100	.104	.100	.098	.082	
148	84.0	.162	.168	.169	.169	.165	
149	93.0	.113	.115	.111	.108	.103	
150	3.0	-.022	.028	-.033	-.032	-.025	
151	10.0	-.056	.064	-.067	-.064	-.056	
152	25.0	-.103	-.127	-.138	-.140	-.131	
153	41.0	-.152	-.196	-.231	-.272	-.272	
154	52.5	-.125	-.173	-.204	-.241	-.341	
155	62.5	-.045	-.077	-.097	-.113	-.138	
156	72.5	.017	.053	.048	.045	.043	
157	84.9	.051	.035	.027	.020	.031	

NACA

[redacted]

TABLE 65

[$\Lambda = -30^\circ$, $\delta_{a_R} = 5.0^\circ$, $\alpha = 2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Per-cent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.243	-0.233	-0.196	-0.305	-0.515	-0.782
7	59.0	-.194	-.181	-.145	-.199	-.328	-.736
8	67.5	-.128	-.108	-.081	-.108	-.228	-.557
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-1.150	-.991	-.768	-.563	-.379	-.253
13	6.0	-.770	-1.048	-.881	-.700	-.537	-.421
14	15.0	-.505	-1.053	-.944	-.818	-.676	-.582
15	27.5	-.435	-.878	-.982	-.926	-.807	-.708
16	40.0	-.393	-.305	-.850	-.893	-.849	-.764
17	50.0	-.343	-.327	-.510	-.836	-.834	-.812
18	59.0	-.276	-.261	-.290	-.487	-.780	-.849
19	67.5	-.188	-.172	-.151	-.351	-.460	-.805
20	77.5	-.096	-.076	-.044	-.234	-.299	-.586
21	88.0	-.030	.043	.057	.072	-.056	-.374
22	95.3	--	--	--	--	--	--
C23	2.0	-.653	-.613	-.472	-.319	-.176	.159
24	6.0	-.544	-.644	-.571	-.447	-.321	-.231
25	15.0	-.501	-.676	-.617	-.520	-.425	-.347
26	27.5	-.469	-.724	-.753	-.670	-.581	-.502
27	40.0	-.443	-.682	-.841	-.783	-.694	-.619
28	50.0	-.374	-.621	-.739	-.846	-.774	-.711
29	59.0	-.343	-.242	-.739	-.817	-.852	-.820
30	67.5	-.194	-.192	-.182	-.703	-.763	-.737
31	77.5	-.114	-.101	-.069	-.146	-.260	-.592
32	88.0	.010	.017	.003	-.091	-.165	-.244
33	95.3	--	--	--	--	--	--
D34	2.0	-.599	-.577	-.548	-.319	-.183	-.091
35	15.0	-.466	-.630	-.574	-.488	-.405	-.330
36	27.5	-.448	-.661	-.671	-.611	-.531	-.462
37	40.0	-.448	-.663	-.771	-.727	-.653	-.583
38	50.0	-.403	-.595	-.721	-.720	-.740	-.690
39	59.0	-.314	-.589	-.629	-.674	-.642	-.638
40	67.5	--	--	--	--	--	--
41	77.5	-.125	-.186	-.155	-.339	-.557	-.620
42	87.5	-.020	-.077	-.039	-.031	-.097	-.360
43	94.2	.051	.054	.036	.032	.043	.005
E44	2.0	-.690	-.685	-.521	-.376	-.238	
45	6.0	-.571	-.702	-.627	-.504	-.383	
46	15.0	-.504	-.666	-.616	-.541	-.455	
47	27.5	-.477	-.681	-.709	-.649	-.573	
48	40.0	-.497	-.668	-.785	-.741	-.673	
49	50.0	-.420	-.601	-.734	-.703	-.632	
50	59.0	-.365	-.541	-.737	-.685	-.623	
51	67.5	-.231	-.238	-.407	-.608	-.531	
52	77.5	-.125	-.142	-.118	-.335	-.417	
53	88.5	.011	.057	.070	-.033	-.303	
54	95.5	.023	.048	.040	-.010	-.231	
F55	2.0	-.683	-.664	-.510	-.383	-.232	
56	6.0	-.561	-.683	-.602	-.491	-.379	
57	15.0	-.494	-.630	-.592	-.519	-.437	
58	27.5	-.473	-.650	-.670	-.620	-.551	
59	49.0	-.471	-.650	-.753	-.720	-.659	
60	50.0	-.428	-.586	-.705	-.707	-.650	
61	59.0	-.378	-.557	-.685	-.692	-.635	
62	67.5	-.301	-.316	-.544	-.676	-.635	
63	86.5	-.066	-.071	-.078	-.141	-.398	
64	94.5	.030	.030	.020	-.003	-.223	
G65	2.0	-.599	-.560	-.436	-.310	-.190	
66	6.0	-.516	-.593	-.538	-.448	-.351	
67	15.0	-.450	-.553	-.520	-.465	-.395	
68	27.5	-.441	-.567	-.579	-.544	-.490	
69	40.0	-.445	-.587	-.660	-.638	-.599	
70	50.0	-.415	-.536	-.618	-.696	-.699	
71	59.0	-.362	-.494	-.581	-.636	-.658	
72	67.5	-.322	-.470	-.554	-.626	-.643	
73	77.5	-.195	-.208	-.216	-.257	-.497	
74	87.2	-.059	-.074	-.082	-.094	-.097	
75	96.8	.044	.035	.029	.020	.013	
H76	2.0	-.450	-.420	-.341	-.247	-.153	
77	6.0	-.424	-.465	-.431	-.368	-.294	
78	15.0	-.358	-.417	-.418	-.371	-.317	
79	27.5	-.362	-.437	-.456	-.455	-.418	
80	40.0	-.360	-.443	-.451	-.472	-.475	
81	50.0	-.339	-.426	-.477	-.496	-.486	
82	59.0	-.278	-.341	-.374	-.397	-.394	
83	67.5	-.211	-.260	-.211	-.307	-.307	
84	88.3	.093	-.135	-.156	-.167	-.180	
85	94.2	--	--	--	--	--	

LOWER SURFACE							
Tube	Per-cent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.052	-0.074	-0.088	-0.105	-0.116	-0.467
91	62.5	-.039	-.039	-.039	-.047	-.052	-.323
92	72.5	.004	.008	.009	.001	-.008	-.072
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.334	.327	.286	.233	.170	.155
96	10.0	.096	.086	.056	.019	-.024	-.023
97	25.0	-.069	-.104	-.136	-.193	-.251	-.233
98	41.0	-.119	-.159	-.187	-.244	-.374	-.409
99	52.5	-.109	-.137	-.158	-.198	-.316	-.467
100	62.5	-.062	-.077	-.064	-.183	-.137	-.408
101	72.5	.007	.007	.008	-.007	-.011	-.185
102	86.3	.080	.092	.097	.085	.070	-.112
103	94.5	.137	.151	.159	.098	.130	-.001
104	3.0	.301	.206	.294	.265	.225	.222
105	10.0	.090	.098	.080	.057	.028	.032
106	25.0	-.052	-.068	-.091	-.124	-.157	-.149
107	41.0	-.102	-.133	-.161	-.210	-.274	-.284
108	52.5	-.106	-.137	-.161	-.209	-.304	-.370
109	62.5	-.060	-.095	-.106	-.151	-.237	-.305
110	72.5	-.022	-.051	-.076	-.096	-.155	-.259
111	85.1	.077	.065	.081	.060	.030	-.076
112	94.6	.134	.145	.146	.107	.056	-.045
113	3.0	.272	.285	.266	.241	.203	.197
114	10.0	.096	.103	.091	.075	.052	.057
115	25.0	-.050	-.064	-.083	-.108	-.135	-.132
116	41.0	-.103	-.133	-.157	-.197	-.243	-.257
117	52.5	-.096	-.124	-.148	-.193	-.242	-.266
118	62.5	-.062	-.083	-.104	-.126	-.200	-.235
119	72.5	.008	-.002	-.015	-.041	-.084	-.120
120	87.4	.086	.090	.079	.063	.033	.014
121	94.2	.100	.105	.096	.080	.057	.044
122	3.0	.332	.375	.355	.327	.301	
123	10.0	.152	.158	.146	.129	.111	
124	25.0	.001	-.013	-.028	-.049	-.067	
125	41.0	-.070	-.083	-.102	-.123	-.156	
126	52.5	-.052	-.061	-.077	-.094	-.126	
127	62.5	-.030	-.038	-.052	-.067	-.103	
128	72.5	-.013	-.009	-.026	-.046	-.090	
129	78.0	.026	.028	.025	.025	-.030	
130	85.3	.101	.104	.095	.084	.031	
131	94.1	.117	.122	.111	.093	.025	
132	3.0	.338	.365	.346	.318	.292	
133	10.0	.139	.159	.146	.131	.114	
134	25.0	-.005	-.005	-.020	-.038	-.069	
135	41.0	-.052	-.066	-.084	-.104	-.133	
136	52.5	-.043	-.052	-.067	-.083	-.106	
137	62.5	.004	-.003	-.018	-.033	-.058	
138	72.5	.026	.019	.010	.002	-.027	
139	83.4	.174	.193	.194	.196	.188	
140	94.0	.106	.105	.095	.089	.053	
141	3.0	.333	.360	.349	.327	.308	
142	10.0	.123	.136	.129	.113	.101	
143	25.0	-.006	-.013	-.028	-.045	-.064	
144	41.0	-.049	-.067	-.084	-.102	-.125	
145	52.5	-.032	-.045	-.061	-.075	-.092	
146	62.5	.016	.019	-.020	-.034	-.051	
147	72.5	.038	.029	.014	.021	.013	
148	84.0	.186	.198	.196	.195	.193	
149	92.0	.121	.122	.116	.113	.109	
150	3.0	.255	.284	.280	.265	.257	
151	10.0	.101	.127	.127	.119	.119	
152	25.0	-.017	-.019	-.024	-.029	-.027	
153	41.0	-.099	-.129	-.151	-.174	-.196	
154	52.5	-.090	-.126	-.151	-.179	-.239	
155	62.5	-.019	-.046	-.062	-.078	-.093	
156	72.5	.077	.075	.070	.069	.070	
157	84.9	.043	.025	-.015	.010	.020	

[redacted]

NACA

TABLE 66

$[\Lambda = -30^\circ, \delta_{n_1} = 5.0^\circ, \alpha = 4^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.209	-0.464	-0.548	-0.544	-0.369	-0.765
7	59.0	-.182	-.364	-.521	-.541	-.345	-.590
8	67.5	-.130	-.264	-.462	-.506	-.307	-.457
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-1.184	-1.219	-1.079	-.959	-.765	-.626
13	6.0	-1.165	-1.177	-1.009	-.908	-.864	-.747
14	15.0	-.831	-.810	-.682	-.702	-.911	-.816
15	27.5	-.618	-.595	-.547	-.563	-.894	-.865
16	40.0	-.456	-.589	-.516	-.559	-.774	-.866
17	50.0	-.376	-.519	-.497	-.502	-.638	-.826
18	59.0	-.286	-.405	-.450	-.438	-.572	-.852
19	67.5	-.193	-.293	-.358	-.374	-.524	-.795
20	77.5	-.096	-.180	-.247	-.288	-.468	-.729
21	88.0	.010	-.051	-.156	-.230	-.366	-.521
22	95.3	--	--	--	--	--	--
C23	2.0	-1.453	-1.072	-.831	-.643	-.493	-.378
24	6.0	-.931	-1.147	-.949	-.782	-.647	-.536
25	15.0	-.708	-1.102	-.951	-.809	-.689	-.585
26	27.5	-.606	-.994	-.921	-.864	-.763	-.664
27	40.0	-.531	-.518	-.877	-.817	-.831	-.761
28	50.0	-.436	-.424	-.596	-.737	-.777	-.783
29	59.0	-.350	-.374	-.458	-.646	-.822	-.872
30	67.5	-.232	-.256	-.277	-.543	-.731	-.791
31	77.5	-.127	-.151	-.130	-.287	-.572	-.640
32	88.0	-.013	-.015	-.041	-.089	-.247	-.302
33	95.3	--	--	--	--	--	--
D34	2.0	-1.217	-1.000	-.785	-.609	-.474	-.372
35	15.0	-.655	-1.025	-.893	-.760	-.646	-.547
36	27.5	-.569	-.921	-.924	-.812	-.712	-.625
37	40.0	-.528	-.808	-.964	-.908	-.818	-.733
38	50.0	-.493	-.504	-.916	-.937	-.881	-.811
39	59.0	-.350	-.430	-.713	-.847	-.837	-.802
40	67.5	--	--	--	--	--	--
41	77.5	-.140	-.136	-.122	-.263	-.525	-.616
42	87.5	-.033	-.022	-.005	-.087	-.233	-.391
43	94.2	.021	.038	.056	.010	-.055	-.086
E44	2.0	-1.571	-1.119	-.079	-.699	-.537	
45	6.0	-1.075	-1.117	-.972	-.820	-.679	
46	15.0	-.686	-1.103	-.951	-.822	-.698	
47	27.5	-.592	-1.004	-.969	-.864	-.757	
48	40.0	-.538	-.885	-.933	-.878	-.720	
49	50.0	-.453	-.506	-.913	-.842	-.716	
50	59.0	-.366	-.399	-.864	-.831	-.669	
51	67.5	-.262	-.277	-.478	-.669	-.550	
52	77.5	-.137	.136	-.116	-.388	-.480	
53	88.5	-.007	.034	.003	-.165	-.461	
54	95.5	.018	.044	.013	-.150	-.397	
F55	2.0	-1.453	-1.114	-.871	-.697	-.542	
56	6.0	-.875	-1.136	-.943	-.797	-.658	
57	15.0	-.673	-1.067	-.929	-.807	-.687	
58	27.5	-.582	-.935	-.946	-.846	-.743	
59	49.0	-.535	-.823	-.900	-.824	-.752	
60	50.0	-.465	-.585	-.930	-.863	-.720	
61	59.0	-.379	-.484	-.753	-.714	-.724	
62	67.5	-.282	-.329	-.563	-.619	-.704	
63	86.5	-.066	-.063	-.098	-.388	-.568	
64	94.6	.000	.011	.010	-.160	-.494	
G65	2.0	-1.242	.028	-.804	-.645	-.499	
66	6.0	-.922	-1.082	-.906	-.768	-.637	
67	15.0	-.606	-.897	-.873	-.763	-.651	
68	27.5	-.547	-.765	-.795	-.766	-.686	
69	40.0	-.513	-.717	-.791	-.771	-.711	
70	50.0	-.455	-.608	-.769	-.787	-.796	
71	59.0	-.365	-.453	-.740	-.749	-.748	
72	67.5	-.291	-.352	-.493	-.742	-.741	
73	77.5	-.200	-.229	-.247	-.319	-.653	
74	87.2	-.061	-.088	-.102	-.104	-.130	
75	95.8	.017	-.022	.000	.009	-.014	
H76	2.0	-.947	-.891	-.724	-.589	-.565	
77	6.0	-.709	-.859	-.787	-.677	-.537	
78	15.0	-.510	-.616	-.627	-.599	-.513	
79	27.5	-.453	-.557	-.592	-.563	-.560	
80	40.0	-.423	-.527	-.551	-.573	-.563	
81	50.0	-.384	-.495	-.536	-.534	-.453	
82	59.0	-.311	-.395	-.435	-.456	-.352	
83	67.5	-.238	-.303	-.342	-.349	-.152	
84	88.3	-.121	-.171	-.205	-.228	.102	
85	94.2						

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.024	-0.058	-0.102	-0.142	-0.193	-0.382
91	62.5	-.023	-.043	-.077	-.103	-.110	-.305
92	72.5	-.010	-.005	-.046	-.074	-.086	-.118
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.597	.568	.549	.499	.465	.452
96	10.0	.271	.258	.235	.215	.180	.189
97	25.0	.031	.000	-.030	-.070	-.107	-.103
98	41.0	-.060	-.101	-.138	-.190	-.273	-.284
99	52.5	-.067	-.106	-.143	-.188	-.288	-.355
100	62.5	-.050	-.062	-.096	-.127	-.203	-.319
101	72.5	.020	.007	-.023	-.044	-.072	-.174
102	86.3	.084	.075	.056	.019	.000	-.127
103	94.5	.130	.118	.058	.031	.016	-.053
104	3.0	.555	.542	.525	.495	.473	.468
105	10.0	-.270	.271	.258	.236	.219	.222
106	25.0	.048	.051	.035	.007	-.014	-.006
107	41.0	-.033	-.056	-.082	-.116	-.168	-.167
108	52.5	-.056	-.088	-.117	-.164	-.240	-.271
109	62.5	-.032	-.054	-.079	-.110	-.196	-.238
110	72.5	.017	-.001	-.025	-.065	-.139	-.143
111	85.1	.071	.093	.073	.061	.009	-.038
112	94.6	.121	.136	.122	.115	.046	-.018
113	3.0	.513	.508	.491	.461	.442	.422
114	10.0	.261	.270	.262	.242	.229	.233
115	25.0	.061	.057	.045	.022	.004	.010
116	41.0	-.029	-.045	-.065	-.101	-.136	-.136
117	52.5	-.043	-.061	-.082	-.127	-.175	-.181
118	62.5	-.022	-.033	-.057	-.104	-.156	-.173
119	72.5	.023	.009	-.003	-.031	-.085	-.104
120	87.4	.077	.148	.109	.067	-.022	.020
121	94.2	.106	.111	.107	.068	-.012	.017
122	3.0	.562	.559	.547	.528	.508	
123	10.0	.292	.307	.301	.289	.271	
124	25.0	.090	.114	.089	.075	.055	
125	41.0	.001	-.005	-.013	-.025	-.061	
126	52.5	-.001	-.006	-.012	-.025	-.063	
127	62.5	.001	.019	-.006	-.024	-.069	
128	72.5	.031	.042	.007	-.005	-.056	
129	78.0	.051	.053	.045	.013	-.041	
130	85.3	.081	.094	.097	.054	-.014	
131	94.1	.068	.128	.119	.056	-.032	
132	3.0	.556	.556	.543	.525	.500	
133	10.0	.294	.308	.304	.292	.277	
134	25.0	.097	.102	.097	.084	.077	
135	41.0	.016	.011	.003	-.014	-.036	
136	52.5	.004	.000	-.006	-.020	-.044	
137	62.5	.053	.043	.040	.028	.006	
138	72.5	.073	.068	.064	.049	.026	
139	83.4	.182	.212	.224	.215	.202	
140	94.0	.083	.090	.120	.074	.018	
141	3.0	.546	.555	.513	.531	.514	
142	10.0	.274	.291	.285	.277	.264	
143	25.0	.093	.097	.090	.080	.066	
144	41.0	.016	.007	-.003	-.015	-.031	
145	52.5	.014	.007	-.003	-.024	-.028	
146	62.5	.048	.042	.046	.038	.021	
147	72.5	.088	.077	.067	.055	.037	
148	84.0	.207	.225	.232	.235	.232	
149	92.0	.107	.112	.118	.123	.117	
150	3.0	.478	.497	.494	.486	.475	
151	10.0	.244	.270	.271	.271	.351	
152	25.0	.068	.083	.078	.077	.075	
153	41.0	-.040	-.056	-.071	-.084	-.099	
154	52.5	-.050	.021	-.097	-.116	-.148	
155	62.5	.001	-.011	-.030	-.043	-.060	
156	72.5	.093	.096	.088	.087	-.088	
157	84.9	.036	.015	.005	.003	-.007	

[redacted]

TABLE 67

$[\Lambda = -30^\circ, \delta_{a_n} = 5.0^\circ, \alpha = 7^\circ]$

[redacted]

UPPER SURFACE								LOWER SURFACE							
Tube	Percent chord	Mach Number						Tube	Percent chord	Mach Number					
		0.60	0.80	0.85	0.89	0.925	0.96			0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--	86	3.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--	87	10.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--	88	25.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--	89	41.0	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--	90	52.5	-0.016	-0.079	-0.125	-0.165	-0.216	-0.272
6	50.0	-0.507	-0.597	-0.594	-0.579	-0.589	-0.750	91	62.5	-.035	-.089	-.123	-.145	-.155	-.208
7	59.0	-.425	-.585	-.599	-.597	-.605	-.742	92	72.5	-.019	-.081	-.117	-.137	-.131	-.121
8	67.5	-.338	-.538	-.561	-.593	-.604	-.671	93	84.0	--	--	--	--	--	--
9	77.5	--	--	--	--	--	--	94	94.0	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--								
11	96.0	--	--	--	--	--	--								
B12	2.0	-.633	-.546	-.546	-.546	-1.007	-.997	95	3.0	.746	.751	.718	.709	.698	.698
13	6.0	-.664	-.558	-.562	-.554	-.965	-.949	96	10.0	.406	.410	.389	.374	.368	.378
14	15.0	-.637	-.556	-.560	-.539	-.744	-.832	97	25.0	.117	.096	.070	.048	.038	.055
15	27.5	-.686	-.588	-.581	-.554	-.593	-.813	98	41.0	-.012	-.056	-.091	-.127	-.154	-.144
16	40.0	-.663	-.618	-.602	-.562	-.585	-.801	99	52.5	-.045	-.096	-.135	-.166	-.224	-.230
17	50.0	-.596	-.626	-.611	-.570	-.577	-.751	100	62.5	-.033	-.084	-.120	-.148	-.179	-.223
18	59.0	-.507	-.605	-.617	-.576	-.562	-.633	101	72.5	.004	-.042	-.072	-.088	-.099	-.139
19	67.5	-.408	-.562	-.604	-.569	-.528	-.559	102	86.3	.038	-.023	-.051	.027	-.055	-.083
20	77.5	-.304	-.474	-.559	-.526	-.450	-.597	103	94.5	.041	-.043	-.076	.009	-.061	-.075
21	88.0	-.188	-.367	-.432	-.407	-.333	-.641								
22	95.3	--	--	--	--	--	--								
C23	2.0	-1.329	-1.385	-1.244	-1.041	-.881	-.748	104	3.0	.727	.722	.703	.687	.681	.684
24	6.0	-1.273	-1.328	-1.164	-1.069	-.936	-.815	105	10.0	.432	.436	.416	.406	.401	.414
25	15.0	-.991	-1.048	-1.075	-1.017	-.933	-.827	106	25.0	.174	.191	.153	.137	.135	.154
26	27.5	-.687	-.740	-.785	-.957	-.908	-.867	107	41.0	.033	.013	-.014	-.040	-.053	-.040
27	40.0	-.556	-.579	-.609	-.762	-.876	-.886	108	52.5	.000	-.048	-.081	-.119	-.149	-.142
28	50.0	-.484	-.508	-.535	-.619	-.760	-.840	109	62.5	.003	-.046	-.079	-.114	-.150	-.155
29	59.0	-.405	-.436	-.448	-.506	-.661	-.847	110	72.5	.024	-.003	-.031	-.059	-.096	-.098
30	67.5	-.297	-.363	-.376	-.418	-.577	-.803	111	85.1	.056	.027	.004	-.005	-.014	-.045
31	77.5	-.206	-.323	-.359	-.406	-.529	-.768	112	94.6	.080	.040	.019	.024	.019	-.015
32	88.0	-.102	-.252	-.317	-.383	-.452	-.622								
33	95.3	--	--	--	--	--	--								
D34	2.0	-1.934	-1.437	-1.163	-.964	-.813	-.686	113	3.0	.727	.692	.674	.656	.648	.653
35	15.0	-.962	-1.311	-1.152	-1.010	-.895	-.786	114	10.0	.435	.436	.421	.408	.407	.417
36	27.5	-.660	-1.222	-1.087	-1.034	-.930	-.829	115	25.0	.184	.186	.171	.155	.153	.169
37	40.0	-.564	-.814	-1.036	-1.004	-.975	-.882	116	41.0	.056	.046	.023	-.004	-.014	.004
38	50.0	-.465	-.626	-.799	-.992	-.948	-.887	117	52.5	.017	.002	-.028	-.062	-.079	-.064
39	59.0	-.372	-.470	-.703	-.896	-.903	-.845	118	62.5	.014	.001	-.033	-.072	-.087	-.084
40	67.5	--	--	--	--	--	--	119	72.5	.046	.040	.006	-.032	-.055	-.045
41	77.5	-.156	-.135	-.138	-.331	-.558	-.741	120	87.4	.096	.111	.066	.023	.007	.013
42	87.5	-.079	-.063	-.130	-.216	-.277	-.569	121	94.2	.073	.064	.040	.004	-.024	-.010
43	94.2	-.050	.138	-.112	-.188	-.248	-.286								
E44	2.0	-1.810	-1.525	-1.251	-1.068	-.905		122	3.0	.734	.731	.716	.709	.700	
45	6.0	-1.663	-1.499	-1.272	-1.112	-.964		123	10.0	.454	.467	.324	.448	.441	
46	15.0	-1.219	-1.385	-1.196	-1.064	-.945		124	25.0	.211	.224	.211	.204	.197	
47	27.5	-.748	-1.308	-1.120	-1.005	-.904		125	41.0	.086	.111	.075	.063	.041	
48	40.0	-.563	-.932	-.927	-.872	-.862		126	52.5	.058	.065	.045	.030	.014	
49	50.0	-.453	-.747	-.761	-.718	-.720		127	62.5	.041	.047	.022	.000	-.021	
50	59.0	-.354	-.607	-.689	-.642	-.647		128	72.5	.090	.061	.028	-.002	-.036	
51	67.5	-.257	-.405	-.608	-.600	-.613		129	78.0	.066	.075	.035	-.001	-.037	
52	77.5	-.160	-.197	-.451	-.570	-.604		130	85.3	.093	.107	.058	.016	-.020	
53	88.5	-.063	-.103	-.371	-.576	-.615		131	94.1	.090	.101	.013	-.036	-.040	
54	95.5	-.049	-.086	-.326	-.487	-.528									
F55	2.0	-1.832	-1.543	-1.263	-1.078	-.913		132	3.0	.735	.638	.721	.702	.701	
56	6.0	-1.752	-1.488	-1.256	-1.095	-.944		133	10.0	.457	.472	.463	.457	.451	
57	15.0	-1.165	-1.404	-1.199	-1.065	-.936		134	25.0	.218	.236	.226	.220	.214	
58	27.5	-.732	-1.303	-1.131	-1.007	-.917		135	41.0	.104	.111	.099	.089	.076	
59	49.0	-.570	-1.084	-1.077	-.988	-.881		136	52.5	.066	.073	.062	.050	.035	
60	50.0	-.471	-.738	-.811	-.905	-.879		137	62.5	.083	.095	.046	.076	.059	
61	59.0	-.374	-.601	-.700	-.766	-.800		138	72.5	.128	.140	.128	.114	.098	
62	67.5	-.278	-.468	-.655	-.714	-.743		139	83.4	.223	.254	.250	.248	.233	
63	86.5	-.100	-.146	-.520	-.703	-.727		140	94.0	.071	.191	.061	.023	-.030	
64	94.6	-.053	-.052	-.366	-.594	-.668									
G65	2.0	-1.950	-1.509	-1.233	-1.050	-.889		141	3.0	.734	.737	.726	.719	.713	
66	6.0	-1.688	-1.472	-1.236	-1.072	-.925		142	10.0	.445	.464	.455	.450	.448	
67	15.0	-1.028	-1.381	-1.179	-1.040	-.912		143	25.0	.218	.236	.226	.221	.219	
68	27.5	-.683	-1.267	-1.171	-1.050	-.931		144	41.0	.104	.111	.101	.092	.086	
69	40.0	-.583	-1.229	-1.112	-1.072	-.975		145	52.5	.078	.083	.072	.065	.058	
70	50.0	-.491	-.779	-1.093	-1.021	-.962		146	62.5	.100	.109	.097	.090	.084	
71	59.0	-.388	-.404	-1.069	-1.020	-.942		147	72.5	.140	.147	.140	.135	.129	
72	67.5	-.301	-.331	-.670	-.998	-.940		148	84.0	.218	.258	.272	.283	.287	
73	77.5	-.194	-.216	-.220	-.463	-.761		149	92.0	.106	.119	.121	.123	.123	
74	87.2	-.094	-.110	-.096	-.117	-.223									
75	96.8	-.044	-.061	-.036	-.034	-.050									
H76	2.0	-1.823	-1.389	-1.140	-.968	-.820		150	3.0	.705	.717	.707	.701	.699	
77	6.0	-1.485	-1.362	-1.134	-.979	-.842		151	10.0	.418	.447	.442	.442	.447	
78	15.0	-.715	-1.204	-1.072	-.951	-.842		152	25.0	.187	.213	.209	.211	.216	
79	27.5	-.595	-.765	-.935	-.886	-.816		153	41.0	.047	.045	.031	.026	.029	
80	40.0	-.518	-.656	-.728	-.704	-.676		154	52.5	.017	-.001	-.020	-.030	-.038	
81	50.0	-.457	-.621	-.648	-.682	-.657		155	62.5	.051	.041	.021	.012	.004	
82	59.0	-.371	-.502	-.568	-.569	-.578		156	72.5	.121	.126	.115	.117	.122	
83	67.5	-.297	-.409	-.440	-.452	-.441		157	84.9	.024	-.006	-.014	-.014	-.005	
84	88.3	-.149	-.269	-.318	-.346	-.356									
85	94.2	--	--	--	--	--									

[redacted]

TABLE 68

[$\Lambda = -30^\circ$, $\delta_{a_n} = 10.0^\circ$, $\alpha = -2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
A 1	2.0	--	--	--	--		
2	6.0	--	--	--	--		
3	15.0	--	--	--	--		
4	27.5	--	--	--	--		
5	40.0	--	--	--	--		
6	50.0	-0.198	-0.223	-0.223	-0.193		
7	59.0	-.167	-.181	-.170	-.129		
8	67.5	-.108	-.086	-.086	-.065		
9	77.5	--	--	--	--		
10	87.5	--	--	--	--		
11	96.0	--	--	--	--		
B12	2.0	.352	.391	.400	.401		
13	6.0	.047	.065	.070	.075		
14	15.0	-.141	-.185	-.203	-.209		
15	27.5	-.229	-.300	-.359	-.416		
16	40.0	-.269	-.343	-.407	-.544		
17	50.0	-.261	-.318	-.357	-.494		
18	59.0	-.221	-.261	-.303	-.454		
19	67.5	-.170	-.227	-.145	-.064		
20	77.5	-.055	-.053	-.055	-.024		
21	88.0	.044	.057	.061	.074		
22	95.3	--	--	--	--		
C23	2.0	.337	.374	.414	.422		
24	6.0	.068	.111	.131	.143		
25	15.0	-.113	-.111	-.099	-.091		
26	27.5	-.215	-.258	-.278	-.286		
27	40.0	-.275	-.353	-.413	-.473		
28	50.0	-.256	-.335	-.394	-.543		
29	59.0	-.238	-.287	-.337	-.481		
30	67.5	-.180	-.235	-.265	-.287		
31	77.5	-.083	-.081	-.083	-.085		
32	88.0	.030	.037	.041	.049		
33	95.3	--	--	--	--		
D34	2.0	.268	.335	.362	.379		
35	15.0	-.113	-.105	-.097	-.089		
36	27.5	-.209	-.241	-.253	-.260		
37	40.0	-.278	-.345	-.389	-.435		
38	50.0	-.279	-.345	-.397	-.504		
39	59.0	-.209	-.278	-.331	-.447		
40	67.5	--	--	--	--		
41	77.5	-.106	-.051	-.071	-.110		
42	87.5	-.001	-.001	-.005	-.020		
43	94.2	.064	.071	.067	.055		
E44	2.0	.222	.269	.290	.333		
45	6.0	-.005	.016	.039	.074		
46	15.0	-.157	-.176	-.169	-.145		
47	27.5	-.232	-.305	-.320	-.306		
48	40.0	-.308	-.407	-.462	-.473		
49	50.0	-.306	-.402	-.470	-.582		
50	59.0	-.270	-.349	-.405	-.518		
51	67.5	-.217	-.302	-.366	-.480		
52	77.5	-.124	-.051	-.046	-.079		
53	88.5	.103	.101	.100	.094		
54	95.5	.070	.069	.070	.071		
F55	2.0	.205	.266	.302	.338		
56	6.0	-.017	.015	.043	.075		
57	15.0	-.164	-.171	-.159	-.132		
58	27.5	-.257	-.303	-.310	-.294		
59	40.0	-.327	-.414	-.460	-.462		
60	50.0	-.334	-.428	-.491	-.570		
61	59.0	-.311	-.391	-.438	-.523		
62	67.5	-.284	-.351	-.395	-.474		
63	86.5	-.114	-.123	-.231	-.164		
64	94.5	.023	.024	.044	.033		
G65	2.0	.218	.292	.328	.363		
66	6.0	.020	.039	.069	.102		
67	15.0	-.151	-.142	-.125	-.098		
68	27.5	-.254	-.278	-.276	-.260		
69	40.0	-.327	-.390	-.415	-.415		
70	50.0	-.347	-.422	-.463	-.513		
71	59.0	-.324	-.385	-.417	-.455		
72	67.5	-.301	-.347	-.372	-.408		
73	77.5	-.297	-.310	-.324	-.363		
74	87.2	-.268	-.297	-.321	-.298		
75	96.8	.048	.066	.041	.004		
H76	2.0	.219	.285	.316	.342		
77	6.0	.003	.045	.074	.101		
78	15.0	-.114	-.101	-.085	-.065		
79	27.5	-.211	-.225	-.220	-.210		
80	40.0	-.270	-.306	-.314	-.308		
81	50.0	-.290	-.342	-.362	-.378		
82	59.0	-.264	-.306	-.327	-.335		
83	67.5	-.238	-.266	-.278	-.280		
84	88.3	-.139	-.167	-.181	-.201		
85	94.2	--	--	--	--		

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89		
86	3.0	--	--	--	--		
87	10.0	--	--	--	--		
88	25.0	--	--	--	--		
89	41.0	--	--	--	--		
90	52.5	-0.108	-0.101	-0.102	-0.063		
91	62.5	-.080	-.064	-.054	-.029		
92	72.5	-.024	-.005	.003	.020		
93	84.0	--	--	--	--		
94	94.0	--	--	--	--		
95	3.0	-.752	--	-.961	-.832		
96	10.0	-.367	-.644	-.951	-.903		
97	25.0	-.282	-.326	-.468	-.813		
98	41.0	-.256	-.281	-.218	-.414		
99	52.5	-.185	-.195	-.180	-.054		
100	62.5	-.121	-.118	-.105	-.036		
101	72.5	-.039	-.025	-.014	.019		
102	86.3	.051	.073	.081	.102		
103	94.5	.114	.133	.142	.162		
104	3.0	-.504	-.641	-.693	-.619		
105	10.0	-.344	-.482	-.528	-.564		
106	25.0	-.301	-.408	-.498	-.523		
107	41.0	-.239	-.300	-.419	-.506		
108	52.5	-.223	-.244	-.241	-.503		
109	62.5	-.143	-.158	-.146	-.200		
110	72.5	-.044	-.042	-.032	-.006		
111	85.1	.034	.047	.046	.077		
112	94.6	.096	.110	.113	.125		
113	3.0	-.439	-.560	-.626	-.583		
114	10.0	-.308	-.386	-.423	-.495		
115	25.0	-.298	-.365	-.416	-.447		
116	41.0	-.261	-.330	-.385	-.445		
117	52.5	-.221	-.254	-.296	-.347		
118	62.5	-.134	-.161	-.190	-.230		
119	72.5	-.034	-.058	-.071	-.104		
120	87.4	.053	.053	.023	.037		
121	94.2	.074	.080	.074	.062		
122	3.0	-.261	-.310	-.340	-.372		
123	10.0	-.215	-.262	-.287	-.303		
124	25.0	-.221	-.277	-.311	-.347		
125	41.0	-.201	-.246	-.271	-.294		
126	52.5	-.149	-.185	-.209	-.232		
127	62.5	-.106	-.125	-.134	-.136		
128	72.5	-.036	-.055	-.068	-.086		
129	78.0	.001	-.012	-.022	-.037		
130	85.3	.050	.044	.036	.025		
131	94.1	.086	.088	.084	.077		
132	3.0	-.261	-.323	-.360	-.394		
133	10.0	-.198	-.248	-.275	-.297		
134	25.0	-.197	-.250	-.282	-.318		
135	41.0	-.167	-.213	-.239	-.268		
136	52.5	-.118	-.158	-.185	-.213		
137	62.5	-.040	-.007	-.004	.002		
138	72.5	.100	.103	.101	.101		
139	83.4	.196	.209	.209	.209		
140	94.0	.102	.094	.089	.078		
141	3.0	-.220	-.282	-.314	-.337		
142	10.0	-.191	-.254	-.289	-.320		
143	25.0	-.177	-.237	-.273	-.312		
144	41.0	-.136	-.185	-.210	-.238		
145	52.5	-.088	-.139	-.161	-.192		
146	62.5	.001	.031	.023	.027		
147	72.5	.132	.127	.122	.117		
148	84.0	.222	.228	.225	.223		
149	92.0	.139	.132	.124	.116		
150	3.0	-.278	-.342	-.380	-.407		
151	10.0	-.185	-.225	-.242	-.252		
152	25.0	-.167	-.214	-.235	-.248		
153	41.0	-.171	-.231	-.270	-.332		
154	52.5	-.122	-.169	-.195	-.226		
155	62.5	-.020	-.040	-.053	-.069		
156	72.5	.126	.121	.117	.112		
157	84.9	.087	.079	.073	.065		

NACA

[redacted]

TABLE 69

[$\Lambda = -30^\circ$, $\delta_{a_n} = 10.0^\circ$, $\alpha = 0^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.233	-0.240	-0.190	-0.230	-0.493	-0.612
7	59.0	-.189	-.185	-.169	-.139	-.311	-.673
8	67.5	-.123	-.111	-.094	-.065	-.188	-.540
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.265	-.275	-.174	-.048	.036	.127
13	6.0	-.340	-.446	-.394	-.292	-.212	-.125
14	15.0	-.343	-.500	-.550	-.495	-.436	-.356
15	27.5	-.353	-.462	-.645	-.631	-.573	-.494
16	40.0	-.350	-.426	-.576	-.661	-.684	-.616
17	50.0	-.318	-.375	-.411	-.632	-.668	-.709
18	59.0	-.273	-.313	-.179	-.470	-.643	-.744
19	67.5	-.207	-.148	-.137	-.309	-.501	-.700
20	77.5	-.086	-.075	-.058	-.095	-.253	-.624
21	88.0	.034	.049	.061	.094	.035	-.194
22	95.3	--	--	--	--	--	--
C23	2.0	-.099	-.054	.004	.084	.148	.222
24	6.0	-.233	-.234	-.197	-.133	-.074	.000
25	15.0	-.316	-.376	-.361	-.310	-.256	-.200
26	27.5	-.356	-.477	-.510	-.475	-.424	-.354
27	40.0	-.377	-.501	-.646	-.630	-.578	-.507
28	50.0	-.331	-.420	-.551	-.713	-.717	-.656
29	59.0	-.296	-.386	-.501	-.709	-.754	-.735
30	67.5	-.242	-.178	-.143	-.549	-.681	-.677
31	77.5	-.104	-.100	-.081	-.077	-.185	-.557
32	88.0	.013	.025	.041	.010	-.080	-.185
33	95.3	--	--	--	--	--	--
D34	2.0	-.120	-.053	-.002	.067	.125	.196
35	15.0	-.303	-.345	-.334	-.293	-.243	-.179
36	27.5	-.344	-.436	-.460	-.435	-.389	-.327
37	40.0	-.382	-.500	-.595	-.588	-.540	-.474
38	50.0	-.359	-.454	-.544	-.659	-.651	-.595
39	59.0	-.283	-.374	-.456	-.574	-.594	-.593
40	67.5	--	--	--	--	--	--
41	77.5	-.099	-.107	-.116	-.174	-.440	-.548
42	87.5	-.017	-.014	-.014	-.025	-.142	-.349
43	94.2	.057	.065	.064	.047	.014	-.146
E44	2.0	-.214	-.175	-.144	-.018	.076	
45	6.0	-.296	-.316	-.280	-.203	-.120	
46	15.0	-.347	-.423	-.416	-.359	-.293	
47	27.5	-.378	-.501	-.523	-.482	-.423	
48	40.0	-.407	-.566	-.654	-.617	-.559	
49	50.0	-.380	-.513	-.670	-.695	-.602	
50	59.0	-.328	-.454	-.627	-.643	-.568	
51	67.5	-.280	-.384	-.418	-.612	-.538	
52	77.5	-.089	-.109	-.091	-.306	-.395	
53	88.5	.077	.076	.075	.029	-.214	
54	95.5	.061	.064	.062	.050	-.130	
F55	2.0	-.229	-.166	-.105	-.010	.080	
56	6.0	-.303	-.307	-.271	-.201	-.126	
57	15.0	-.348	-.405	-.391	-.341	-.279	
58	27.5	-.386	-.488	-.504	-.463	-.407	
59	49.0	-.423	-.570	-.635	-.597	-.543	
60	50.0	-.407	-.541	-.674	-.719	-.658	
61	59.0	-.368	-.479	-.608	-.667	-.607	
62	67.5	-.330	-.434	-.584	-.652	-.598	
63	88.5	-.104	-.095	-.080	-.124	-.359	
64	94.5	.024	.025	.044	.004	-.192	
G65	2.0	-.186	-.101	-.046	.040	.116	
66	6.0	-.276	-.253	-.220	-.158	-.093	
67	15.0	-.320	-.346	-.333	-.291	-.240	
68	27.5	-.370	-.435	-.441	-.405	-.360	
69	40.0	-.413	-.519	-.559	-.535	-.488	
70	50.0	-.411	-.520	-.596	-.648	-.610	
71	59.0	-.371	-.462	-.531	-.592	-.614	
72	67.5	-.336	-.423	-.492	-.553	-.565	
73	77.5	-.306	-.382	-.450	-.493	-.502	
74	87.2	-.290	-.240	-.160	-.175	-.243	
75	96.8	.061	.043	.011	-.008	-.026	
H76	2.0	-.107	-.032	.009	.069	.129	
77	6.0	-.217	-.195	-.168	-.124	-.072	
78	15.0	-.250	-.256	-.247	-.220	-.179	
79	27.5	-.303	-.336	-.338	-.328	-.311	
80	40.0	-.334	-.385	-.396	-.385	-.376	
81	50.0	-.337	-.401	-.430	-.435	-.410	
82	59.0	-.303	-.347	-.372	-.387	-.388	
83	67.5	-.271	-.289	-.316	-.304	-.307	
84	88.3	-.136	-.187	-.213	-.245	-.257	
85	94.2	--	--	--	--	--	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.077	-0.090	-0.093	-0.100	-0.077	-0.521
91	62.5	-.060	-.048	-.044	-.043	-.025	-.348
92	72.5	-.009	.001	.007	.009	.025	-.058
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	-.088	-.109	-.153	-.219	-.226	-.219
96	10.0	-.126	-.162	-.201	-.285	-.337	-.346
97	25.0	-.182	-.226	-.264	-.357	-.405	-.412
98	41.0	-.190	-.220	-.243	-.299	-.465	-.513
99	52.5	-.157	-.178	-.190	-.185	-.388	-.375
100	62.5	-.097	-.100	-.093	-.087	-.051	-.321
101	72.5	-.017	.001	.004	.002	.029	-.219
102	86.3	.066	.088	.092	.096	.102	-.083
103	94.5	.128	.148	.154	.162	.166	.037
104	3.0	-.036	-.025	-.040	-.070	-.066	-.064
105	10.0	-.117	-.135	-.154	-.188	-.189	-.173
106	25.0	-.174	-.211	-.241	-.294	-.302	-.295
107	41.0	-.170	-.211	-.241	-.321	-.380	-.368
108	52.5	-.165	-.193	-.213	-.274	-.389	-.475
109	62.5	-.116	-.145	-.170	-.235	-.337	-.420
110	72.5	-.019	.017	.019	.020	-.014	-.263
111	85.1	.053	.064	.067	.061	.050	-.098
112	94.6	.120	.134	.141	.129	.091	-.063
113	3.0	-.026	-.025	-.044	-.073	-.079	-.093
114	10.0	-.095	-.095	-.107	-.128	-.128	-.125
115	25.0	-.163	-.193	-.215	-.252	-.261	-.280
116	41.0	-.180	-.218	-.244	-.298	-.336	-.348
117	52.5	-.152	-.185	-.206	-.259	-.307	-.330
118	62.5	-.102	-.123	-.139	-.183	-.234	-.297
119	72.5	-.017	-.027	-.033	-.059	-.087	-.118
120	87.4	.069	.076	.065	.053	.043	.032
121	94.2	.078	.096	.098	.085	.066	.051
122	3.0	.111	.126	.121	.089	.060	
123	10.0	-.012	-.010	-.014	-.027	-.053	
124	25.0	-.100	-.120	-.131	-.155	-.185	
125	41.0	-.121	-.145	-.158	-.182	-.213	
126	52.5	-.086	-.104	-.113	-.132	-.159	
127	62.5	-.057	-.072	-.083	-.103	-.134	
128	72.5	-.036	-.040	-.036	-.033	-.067	
129	78.0	.038	.026	.020	-.007	-.043	
130	85.5	.077	.076	.073	.063	.012	
131	94.1	.103	.106	.105	.095	.023	
132	3.0	.106	.110	.103	.070	.041	
133	10.0	.000	-.003	-.009	-.031	-.049	
134	25.0	-.080	-.101	-.113	-.138	-.164	
135	41.0	-.089	-.113	-.127	-.149	-.177	
136	52.5	-.054	-.068	-.077	-.095	-.119	
137	62.5	-.014	-.036	-.050	-.074	-.104	
138	72.5	.144	.156	.159	.158	.151	
139	83.4	.223	.240	.246	.246	.234	
140	94.0	.114	.111	.107	.094	.044	
141	3.0	.118	.113	.110	.083	.064	
142	10.0	-.006	-.023	-.030	-.052	-.070	
143	25.0	-.069	-.101	-.116	-.142	-.169	
144	41.0	-.067	-.097	-.113	-.132	-.156	
145	52.5	-.026	-.048	-.061	-.079	-.100	
146	62.5	.008	-.018	-.036	-.051	-.084	
147	72.5	.171	.175	.177	.173	.161	
148	84.0	.243	.256	.257	.255	.249	
149	92.0	.150	.152	.145	.136	.120	
150	3.0	.036	.031	.030	.016	.008	
151	10.0	-.029	-.036	-.036	-.041	-.039	
152	25.0	-.086	-.113	-.123	-.135	-.138	
153	41.0	-.120	-.166	-.191	-.225	-.261	
154	52.5	-.083	-.124	-.145	-.173	-.218	
155	62.5	-.024	-.061	-.079	-.078	-.072	
156	72.5	.148	.154	.155	.151	.153	
157	84.9	.083	.073	.068	.065	.069	

NACA

[redacted]

TABLE 70

$\left[\Lambda = -30^\circ,\ \delta_{a_n} = 10.0^\circ,\ \alpha = 2^\circ\right]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.249	-0.224	-0.168	-0.287	-0.489	-0.682
7	59.0	-.202	-.208	-.189	-.191	-.351	-.765
8	67.5	-.136	-.105	-.067	-.109	-.234	-.613
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-1.291	-1.024	-.790	-.610	-.426	-.290
13	6.0	-.837	-1.109	-.909	-.747	-.575	-.447
14	15.0	-.535	-1.049	-.924	-.812	-.684	-.573
15	27.5	-.455	-.927	-1.016	-.951	-.834	-.728
16	40.0	-.412	-.304	-.907	-.913	-.874	-.781
17	50.0	-.356	-.318	-.430	-.857	-.850	-.814
18	59.0	-.278	-.257	-.292	-.489	-.809	-.848
19	67.5	-.196	-.170	-.157	-.337	-.487	-.832
20	77.5	-.104	-.075	-.050	-.261	-.326	-.655
21	88.0	.020	.046	.070	.057	-.081	-.450
22	95.3	--	--	--	--	--	--
C23	2.0	-.732	-.663	-.495	-.357	-.208	-.098
24	6.0	-.601	-.697	-.600	-.486	-.353	-.250
25	15.0	-.535	-.703	-.618	-.539	-.440	-.356
26	27.5	-.492	-.760	-.758	-.686	-.596	-.513
27	40.0	-.463	-.706	-.834	-.796	-.712	-.689
28	50.0	-.390	-.611	-.723	-.832	-.799	-.721
29	59.0	-.353	-.247	-.755	-.827	-.848	-.825
30	67.5	-.209	-.193	-.152	-.632	-.769	-.732
31	77.5	-.126	-.100	-.075	-.165	-.256	-.532
32	88.0	.002	.020	.008	-.117	-.188	-.261
33	95.3	--	--	--	--	--	--
D34	2.0	-.681	-.644	-.496	-.366	-.223	-.113
35	15.0	-.504	-.639	-.580	-.507	-.420	-.343
36	27.5	-.478	-.675	-.681	-.630	-.550	-.475
37	40.0	-.474	-.673	-.782	-.744	-.670	-.595
38	50.0	-.425	-.599	-.730	-.718	-.756	-.701
39	59.0	-.331	-.447	-.626	-.666	-.669	-.661
40	67.5	--	--	--	--	--	--
41	77.5	-.139	-.142	-.134	-.488	-.609	-.652
42	87.5	-.029	-.024	-.021	-.073	-.339	-.491
43	94.2	.045	.056	.051	.058	.017	-.259
E44	2.0	-.825	-.783	-.587	-.418	-.265	
45	6.0	-.650	-.850	-.710	-.549	-.407	
46	15.0	-.554	-.725	-.663	-.567	-.471	
47	27.5	-.514	-.761	-.745	-.669	-.585	
48	40.0	-.503	-.772	-.822	-.747	-.677	
49	50.0	-.453	-.700	-.767	-.700	-.633	
50	59.0	-.380	-.581	-.761	-.679	-.605	
51	67.5	-.262	-.259	-.624	-.547	-.522	
52	77.5	-.145	-.148	-.219	-.416	-.445	
53	88.5	.0040	.049	.047	-.261	-.349	
54	95.5	.053	.055	.043	-.177	-.294	
F55	2.0	-.825	-.773	-.580	-.408	-.258	
56	6.0	-.647	-.801	-.673	-.530	-.400	
57	15.0	-.550	-.696	-.639	-.548	-.453	
58	27.5	-.517	-.719	-.708	-.640	-.561	
59	49.0	-.514	-.763	-.799	-.740	-.669	
60	50.0	-.475	-.690	-.794	-.720	-.663	
61	59.0	-.417	-.637	-.773	-.705	-.648	
62	67.5	-.351	-.399	-.737	-.706	-.642	
63	86.5	-.100	-.109	-.120	-.398	-.455	
64	94.6	.024	.019	.006	-.225	-.396	
G65	2.0	-.737	-.676	-.511	-.355	-.215	
66	6.0	-.599	-.684	-.599	-.479	-.366	
67	15.0	-.507	-.608	-.554	-.485	-.407	
68	27.5	-.494	-.627	-.605	-.559	-.496	
69	40.0	-.501	-.669	-.697	-.653	-.605	
70	50.0	-.478	-.627	-.737	-.748	-.705	
71	59.0	-.428	-.578	-.678	-.708	-.698	
72	67.5	-.391	-.559	-.668	-.678	-.656	
73	77.5	-.337	-.343	-.404	-.592	-.590	
74	87.2	-.115	-.127	-.138	-.156	-.270	
75	96.8	.031	.007	-.012	-.046	-.065	
H76	2.0	-.528	-.485	-.384	-.268	-.163	
77	6.0	-.478	-.520	-.468	-.388	-.308	
78	15.0	-.395	-.448	-.431	-.377	-.316	
79	27.5	-.395	-.463	-.474	-.468	-.421	
80	40.0	-.397	-.478	-.471	-.478	-.476	
81	50.0	-.385	-.478	-.496	-.473	-.481	
82	59.0	-.338	-.411	-.434	-.434	-.432	
83	67.5	-.271	-.329	-.357	-.340	-.324	
84	88.3	-.163	-.228	-.256	-.287	-.322	
85	94.2	--	--	--	--	--	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.048	-0.061	-0.073	-0.101	-0.112	-0.464
91	62.5	-.039	-.032	-.034	-.044	-.053	-.333
92	72.5	.005	.014	.014	.003	-.008	-.070
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.389	.361	.315	.271	.203	.174
96	10.0	.114	.106	.078	.045	-.002	-.012
97	25.0	-.047	-.090	-.121	-.170	-.235	-.228
98	41.0	-.117	-.146	-.174	-.226	-.340	-.400
99	52.5	-.106	-.128	-.148	-.189	-.286	-.462
100	62.5	-.062	-.070	-.077	-.106	-.143	-.394
101	72.5	.004	.014	.012	-.009	-.018	-.190
102	86.3	.077	.094	.098	.078	.061	-.127
103	94.5	.133	.153	.161	.136	.121	-.026
104	3.0	.327	.342	.318	.290	.249	.238
105	10.0	.106	.114	.098	.078	.048	.043
106	25.0	-.041	-.052	-.071	-.100	-.136	-.138
107	41.0	-.093	-.119	-.144	-.189	-.249	-.271
108	52.5	-.103	-.126	-.148	-.192	-.276	-.364
109	62.5	-.062	-.075	-.094	-.134	-.212	-.297
110	72.5	-.019	-.038	-.062	-.095	-.153	-.243
111	85.1	.076	.089	.083	.054	.016	-.096
112	94.8	.130	.146	.142	.087	.034	-.063
113	3.0	.304	.314	.292	.269	.231	.213
114	10.0	.103	.127	.115	.100	.077	.073
115	25.0	-.035	-.042	-.060	-.082	-.109	-.113
116	41.0	-.093	-.115	-.136	-.170	-.215	-.235
117	52.5	-.088	-.109	-.130	-.169	-.221	-.255
118	62.5	-.057	-.070	-.090	-.124	-.172	-.238
119	72.5	.007	.008	-.004	-.029	-.067	-.115
120	87.4	.087	.093	.085	.071	.049	.030
121	94.2	.096	.106	.103	.092	.075	.060
122	3.0	.402	.428	.402	.364	.329	
123	10.0	.173	.200	.183	.157	.134	
124	25.0	.017	.024	.008	-.017	-.045	
125	41.0	-.043	-.045	-.063	-.091	-.124	
126	52.5	-.027	-.029	-.043	-.067	-.101	
127	62.5	-.012	-.013	-.024	-.050	-.092	
128	72.5	.016	.009	-.006	-.040	-.097	
129	78.0	.031	.034	.030	.004	-.080	
130	85.3	.100	.102	.095	.056	-.015	
131	94.1	.114	.122	.112	.048	-.036	
132	3.0	.396	.418	.392	.354	.319	
133	10.0	.182	.205	.188	.163	.141	
134	25.0	.033	.039	.023	-.001	-.026	
135	41.0	-.023	-.017	-.033	-.057	-.087	
136	52.5	.003	.002	-.008	-.026	-.053	
137	62.5	.050	.048	.034	.013	-.015	
138	72.5	.154	.171	.178	.176	.142	
139	83.4	.250	.275	.279	.275	.255	
140	94.0	.126	.122	.117	.093	.019	
141	3.0	.392	.403	.392	.360	.332	
142	10.0	.166	.182	.168	.145	.125	
143	25.0	.037	.034	.017	-.005	-.027	
144	41.0	.000	-.011	-.029	-.049	-.069	
145	52.5	.026	.020	.005	-.011	-.026	
146	62.5	.067	.059	.038	.022	-.002	
147	72.5	.194	.214	.211	.208	.201	
148	84.0	.265	.284	.283	.281	.277	
149	92.0	.159	.160	.153	.146	.135	
150	3.0	.308	.334	.322	.297	.281	
151	10.0	.123	.145	.140	.129	.125	
152	25.0	.003	.000	-.011	-.024	-.031	
153	41.0	-.065	-.091	-.115	-.140	-.171	
154	52.5	-.046	-.073	-.098	-.121	-.150	
155	62.5	.017	-.004	-.024	-.045	-.053	
156	72.5	.172	.182	.172	.173	.174	
157	84.9	.076	.064	.053	.054	.062	

NACA

[redacted]

TABLE 71

$\left[\Lambda = -30^\circ,\ \delta_{e_n} = 10.0^\circ,\ \alpha = 4^\circ\right]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.203	-0.483	-0.528	-0.522	-0.396	-0.750
7	59.0	-.181	-.462	-.546	-.546	-.385	-.646
8	67.5	-.132	-.387	-.502	-.511	-.340	-.452
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-1.166	-.625	-.560	-.782	-.787	-.640
13	6.0	-1.173	-.634	-.558	-.738	-.870	-.756
14	15.0	-1.013	-.603	-.518	-.648	-.874	-.806
15	27.5	-.648	-.633	-.533	-.572	-.884	-.841
16	40.0	-.474	-.609	-.551	-.570	-.799	-.883
17	50.0	-.383	-.571	-.593	-.535	-.664	-.838
18	59.0	-.290	-.512	-.541	-.511	-.580	-.852
19	67.5	-.198	-.440	-.499	-.435	-.527	-.795
20	77.5	-.101	-.318	-.390	-.360	-.461	-.730
21	88.0	.005	-.165	-.236	-.358	-.368	-.554
22	95.3	--	--	--	--	--	--
C23	2.0	-1.585	-1.087	-.852	-.653	-.534	-.387
24	6.0	-.895	-1.158	-.965	-.792	-.668	-.545
25	15.0	-.750	-1.060	-.968	-.818	-.708	-.592
26	27.5	-.618	-.925	-.911	-.862	-.782	-.671
27	40.0	-.541	-.391	-.838	-.811	-.849	-.765
28	50.0	-.446	-.473	-.495	-.639	-.775	-.781
29	59.0	-.359	-.399	-.394	-.608	-.828	-.867
30	67.5	-.240	-.281	-.263	-.515	-.749	-.792
31	77.5	-.134	-.179	-.160	-.336	-.644	-.767
32	88.0	-.019	-.044	-.072	-.137	-.244	-.274
33	95.3	--	--	--	--	--	--
D34	2.0	-1.284	-1.030	-.811	-.627	-.501	-.381
35	15.0	-.687	-1.054	-.913	-.772	-.668	-.556
36	27.5	-.588	-.964	-.945	-.826	-.733	-.630
37	40.0	-.541	-.848	-.924	-.917	-.832	-.737
38	50.0	-.468	-.416	-.901	-.948	-.910	-.814
39	59.0	-.363	-.409	-.581	-.809	-.832	-.798
40	67.5	--	--	--	--	--	--
41	77.5	-.148	-.137	-.122	-.227	-.456	-.579
42	87.5	-.039	-.019	.011	-.054	-.344	-.452
43	94.2	.014	.041	.061	.004	-.161	-.269
E44	2.0	-1.707	-1.182	-.917	-.724	-.546	
45	6.0	-.982	-1.225	-.999	-.836	-.685	
46	15.0	-.722	-1.153	-.975	-.838	-.703	
47	27.5	-.617	-1.098	-.993	-.874	-.761	
48	40.0	-.563	-1.025	-.962	-.831	-.729	
49	50.0	-.477	-.669	-.942	-.816	-.725	
50	59.0	-.388	-.365	-.905	-.703	-.692	
51	67.5	-.275	-.269	-.682	-.594	-.586	
52	77.5	-.151	-.135	-.193	-.493	-.515	
53	88.5	-.019	.035	-.063	-.386	-.478	
54	95.5	.010	.051	-.035	-.310	-.407	
F55	2.0	-1.608	-1.183	-.910	-.719	-.553	
56	6.0	-.813	-1.191	-.969	-.813	-.665	
57	15.0	-.713	-1.123	-.953	-.821	-.693	
58	27.5	-.616	-1.037	-.970	-.860	-.746	
59	49.0	-.571	-.948	-.937	-.843	-.782	
60	50.0	-.494	-.737	-.976	-.831	-.738	
61	59.0	-.411	-.464	-.836	-.823	-.739	
62	67.5	-.325	-.363	-.651	-.724	-.729	
63	86.5	-.079	-.068	-.248	-.536	-.576	
64	94.5	-.042	-.020	-.065	-.396	-.537	
G65	2.0	-1.387	-1.109	-.839	-.665	-.509	
66	6.0	-.956	-1.136	-.926	-.781	-.640	
67	15.0	-.656	-.977	-.895	-.776	-.653	
68	27.5	-.587	-.844	-.825	-.778	-.685	
69	40.0	-.557	-.787	-.821	-.781	-.708	
70	50.0	-.504	-.694	-.853	-.837	-.803	
71	59.0	-.417	-.589	-.801	-.807	-.782	
72	67.5	-.351	-.419	-.756	-.787	-.757	
73	77.5	-.282	-.302	-.381	-.698	-.707	
74	87.2	-.102	-.142	-.157	-.195	-.316	
75	96.8	-.047	-.110	-.071	-.080	-.100	
H76	2.0	-1.009	-.952	-.739	-.592	-.451	
77	6.0	-.749	-.906	-.780	-.664	-.548	
78	15.0	-.534	-.655	-.637	-.604	-.533	
79	27.5	-.480	-.578	-.607	-.563	-.506	
80	40.0	-.453	-.556	-.571	-.584	-.556	
81	50.0	-.423	-.539	-.560	-.539	-.559	
82	59.0	-.362	-.452	-.467	-.476	-.462	
83	67.5	-.305	-.384	-.392	-.365	-.350	
84	88.3	-.198	-.286	-.342	-.372	-.392	
85	94.2	--	--	--	--	--	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.023	-0.067	-0.109	-0.140	-0.176	-0.369
91	62.5	-.025	-.054	-.088	-.111	-.108	-.316
92	72.5	.011	-.022	-.058	-.080	-.081	-.107
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.606	.568	.547	.507	.475	.463
96	10.0	.278	.258	.242	.213	.192	.196
97	25.0	.034	-.002	-.026	-.064	-.095	-.091
98	41.0	-.061	-.103	-.138	-.189	-.260	-.272
99	52.5	-.068	-.111	-.144	-.189	-.270	-.346
100	62.5	-.036	-.071	-.102	-.131	-.186	-.315
101	72.5	.017	-.006	-.034	-.051	-.065	-.182
102	86.3	.078	.054	.018	.000	.003	-.117
103	94.5	.121	.083	.030	.006	.016	-.039
104	3.0	.514	.548	.532	.504	.484	.481
105	10.0	.278	.275	.265	.246	.232	.238
106	25.0	.068	.057	.044	.015	-.002	.008
107	41.0	-.031	-.057	-.077	-.116	-.153	-.154
108	52.5	-.056	-.086	-.114	-.162	-.225	-.253
109	62.5	-.028	-.056	-.079	-.119	-.185	-.233
110	72.5	.015	-.002	-.026	-.065	-.127	-.168
111	85.1	.067	.073	.063	.058	.018	-.048
112	94.6	.123	.123	.101	.105	.061	-.022
113	3.0	.528	.516	.505	.476	.459	.454
114	10.0	.260	.260	.275	.254	.244	.251
115	25.0	.070	.068	.059	.032	.019	.030
116	41.0	-.022	-.037	.052	-.092	-.119	-.115
117	52.5	-.038	-.054	-.071	-.120	-.158	-.167
118	62.5	-.019	-.032	-.046	-.097	-.141	-.162
119	72.5	.024	.015	.001	-.031	-.076	-.093
120	87.4	.078	.104	.121	.068	.022	.011
121	94.2	.097	.112	.107	.061	.020	.011
122	3.0	.590	.589	.570	.546	.518	
123	10.0	.312	.332	.319	.302	.283	
124	25.0	.111	.121	.111	.092	.072	
125	41.0	.020	.022	.012	-.012	-.040	
126	52.5	.014	.019	.011	-.016	-.044	
127	62.5	.014	.019	.013	-.022	-.058	
128	72.5	.040	.044	.035	-.011	-.066	
129	78.0	.057	.060	.048	-.004	-.063	
130	85.3	.083	.102	.104	.043	-.023	
131	94.1	.097	.126	.103	.010	-.054	
132	3.0	.581	.586	.567	.542	.514	
133	10.0	.318	.337	.327	.310	.290	
134	25.0	.123	.133	.127	.110	.090	
135	41.0	.046	.048	.041	.022	-.002	
136	52.5	.040	.046	.043	.026	.003	
137	62.5	.081	.092	.091	.074	.052	
138	72.5	.097	.099	.096	.080	.053	
139	83.4	.252	.291	.309	.300	.284	
140	94.0	.094	.106	.125	.077	.014	
141	3.0	.575	.584	.566	.548	.524	
142	10.0	.303	.324	.309	.297	.280	
143	25.0	.126	.133	.120	.107	.091	
144	41.0	.054	.052	.041	.038	.010	
145	52.5	.060	.060	.053	.042	.029	
146	62.5	.103	.100	.104	.092	.075	
147	72.5	.129	.119	.113	.105	.097	
148	84.0	.266	.296	.309	.312	.308	
149	92.0	.131	.139	.150	.153	.141	
150	3.0	.509	.532	.516	.503	.486	
151	10.0	.252	.285	.276	.272	.266	
152	25.0	.080	.096	.084	.079	.075	
153	41.0	-.012	-.026	-.048	-.062	-.079	
154	52.5	-.009	-.032	-.054	-.069	-.089	
155	62.5	.053	.043	.023	.010	-.006	
156	72.5	.186	.190	.184	.187	.192	
157	84.9	.063	.045	.038	.044	.050	

NACA

[redacted]

TABLE 72

$\left[\Lambda = -30^\circ,\ \delta_{a_n} = 10.0^\circ,\ \alpha = 7^\circ\right]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
A 1	2.0	--	--	--	--	--	--
2	6.0	--	--	--	--	--	--
3	15.0	--	--	--	--	--	--
4	27.5	--	--	--	--	--	--
5	40.0	--	--	--	--	--	--
6	50.0	-0.508	-0.564	-0.569	-0.560	-0.572	-0.648
7	59.0	-.439	-.590	-.601	-.601	-.611	-.623
8	67.5	-.361	-.557	-.577	-.595	-.611	-.584
9	77.5	--	--	--	--	--	--
10	87.5	--	--	--	--	--	--
11	96.0	--	--	--	--	--	--
B12	2.0	-.651	-.543	-.557	-.552	-.581	-.979
13	6.0	-.670	-.557	-.574	-.571	-.607	-.967
14	15.0	-.677	-.549	-.556	-.547	-.568	-.897
15	27.5	-.732	-.579	-.587	-.561	-.573	-.960
16	40.0	-.700	-.605	-.609	-.571	-.581	-.881
17	50.0	-.626	-.616	-.618	-.577	-.589	-.838
18	59.0	-.546	-.611	-.625	-.593	-.594	-.786
19	67.5	-.453	-.586	-.609	-.592	-.599	-.708
20	77.5	-.344	-.517	-.567	-.581	-.595	-.694
21	88.0	-.227	-.402	-.449	-.466	-.525	-.628
22	95.3	--	--	--	--	--	--
C23	2.0	-1.304	-1.419	-1.249	-1.056	-.889	-.750
24	6.0	-1.240	-1.357	-1.161	-1.065	-.939	-.813
25	15.0	-.969	-1.079	-1.066	-.993	-.923	-.812
26	27.5	-.681	-.739	-.774	-.944	-.885	-.849
27	40.0	-.566	-.566	-.610	-.726	-.854	-.883
28	50.0	-.504	-.491	-.518	-.603	-.788	-.864
29	59.0	-.429	-.428	-.464	-.467	-.608	-.873
30	67.5	-.325	-.360	-.391	-.370	-.490	-.835
31	77.5	-.233	-.325	-.372	-.365	-.424	-.813
32	88.0	-.129	-.263	-.332	-.325	-.390	-.685
33	95.3	--	--	--	--	--	--
D34	2.0	-1.906	-1.443	-1.182	-.981	-.825	-.698
35	15.0	-1.007	-1.315	-1.154	-1.006	-.895	-.788
36	27.5	-.672	-1.228	-1.085	-1.018	-.925	-.831
37	40.0	-.567	-.828	-1.033	-.983	-.945	-.864
38	50.0	-.473	-.643	-.805	-.953	-.913	-.895
39	59.0	-.375	-.496	-.664	-.791	-.871	-.844
40	67.5	--	--	--	--	--	--
41	77.5	-.172	-.153	-.190	-.315	-.428	-.564
42	87.5	-.097	-.108	-.177	-.262	-.323	-.342
43	94.2	-.064	-.074	-.160	-.247	-.309	-.323
E44	2.0	-1.937	-1.550	-1.275	-1.092	-.917	
45	6.0	-1.825	-1.528	-1.296	-1.133	-.974	
46	15.0	-1.261	-1.396	-1.209	-1.075	-.953	
47	27.5	-.705	-1.261	-1.130	-1.019	-.912	
48	40.0	-.581	-.899	-.895	-.861	-.872	
49	50.0	-.487	-.747	-.741	-.735	-.743	
50	59.0	-.382	-.630	-.672	-.671	-.675	
51	67.5	-.289	-.503	-.623	-.634	-.642	
52	77.5	-.188	-.313	-.550	-.609	-.627	
53	88.5	-.088	-.160	-.487	-.592	-.612	
54	95.3	-.066	-.118	-.410	-.509	-.547	
F55	2.0	-1.654	-1.568	-1.286	-1.102	-.925	
56	6.0	-1.594	-1.518	-1.281	-1.116	-.954	
57	15.0	-1.243	-1.428	-1.216	-1.084	-.944	
58	27.5	-.845	-1.327	-1.144	-1.034	-.926	
59	40.0	-.619	-1.114	-1.086	-1.012	-.892	
60	50.0	-.447	-.782	-.899	-.929	-.887	
61	59.0	-.405	-.672	-.780	-.831	-.823	
62	67.5	-.314	-.543	-.727	-.767	-.761	
63	86.5	-.119	-.214	-.614	-.699	-.736	
64	94.6	-.073	-.106	-.453	-.627	-.683	
G65	2.0	-1.857	-1.537	-1.256	-1.078	-.902	
66	6.0	-1.768	-1.502	-1.254	-1.091	-.932	
67	15.0	-1.184	-1.409	-1.199	-1.059	-.918	
68	27.5	-.739	-1.305	-1.190	-1.065	-.936	
69	40.0	-.614	-1.267	-1.180	-1.098	-.979	
70	50.0	-.534	-1.005	-1.134	-1.065	-.998	
71	59.0	-.437	-.481	-1.124	-1.051	-.961	
72	67.5	-.358	-.384	-.850	-1.044	-.977	
73	77.5	-.262	-.271	-.308	-.600	-.827	
74	87.2	-.129	-.174	-.170	-.216	-.359	
75	96.8	-.092	-.148	-.126	-.146	-.204	
H76	2.0	-1.901	-1.420	-1.152	-.986	-.823	
77	6.0	-1.616	-1.398	-1.161	-1.015	-.871	
78	15.0	-.739	-1.217	-1.061	-.943	-.823	
79	27.5	-.627	-.760	-.884	-.877	-.796	
80	40.0	-.554	-.674	-.716	-.716	-.676	
81	50.0	-.501	-.655	-.652	-.676	-.657	
82	59.0	-.428	-.541	-.593	-.576	-.568	
83	67.5	-.364	-.485	-.470	-.463	-.431	
84	88.3	-.262	-.389	-.466	-.509	-.528	
85	94.2	--	--	--	--	--	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.85	0.89	0.925	0.96
86	3.0	--	--	--	--	--	--
87	10.0	--	--	--	--	--	--
88	25.0	--	--	--	--	--	--
89	41.0	--	--	--	--	--	--
90	52.5	-0.022	-0.088	-0.124	-0.164	-0.226	-0.277
91	62.5	-.041	-.093	-.124	-.152	-.169	-.239
92	72.5	-.027	-.095	-.117	-.141	-.140	-.123
93	84.0	--	--	--	--	--	--
94	94.0	--	--	--	--	--	--
95	3.0	.739	.755	.732	.709	.696	.702
96	10.0	.399	.424	.395	.375	.369	.387
97	25.0	.110	.098	.071	.056	.036	.062
98	41.0	-.021	-.054	-.090	-.129	-.159	-.136
99	52.5	-.051	-.096	-.136	-.179	-.236	-.227
100	62.5	-.041	-.087	-.122	-.153	-.197	-.232
101	72.5	-.006	-.047	-.075	-.095	-.113	-.155
102	86.3	.025	-.030	-.056	-.066	-.065	-.086
103	94.5	.028	-.051	-.081	-.083	-.074	-.074
104	3.0	.721	.726	.706	.689	.681	.691
105	10.0	.426	.439	.425	.411	.406	.425
106	25.0	.169	.177	.157	.141	.136	.163
107	41.0	.028	.016	-.012	-.037	-.054	-.030
108	52.5	-.005	-.045	-.081	-.120	-.154	-.134
109	62.5	-.004	-.045	-.081	-.121	-.164	-.155
110	72.5	.017	-.006	-.036	-.070	-.106	-.110
111	85.1	.047	.020	.000	-.015	-.043	-.068
112	94.6	.066	.029	.012	.009	.005	-.022
113	3.0	.713	.698	.679	.663	.654	.665
114	10.0	.426	.444	.427	.415	.411	.430
115	25.0	.185	.195	.177	.162	.158	.183
116	41.0	.056	.055	.028	.005	-.007	.019
117	52.5	.015	.010	-.022	-.054	-.083	-.051
118	62.5	.011	.012	-.032	-.068	-.097	-.074
119	72.5	.040	.041	.003	-.035	-.062	-.040
120	87.4	.087	.096	.052	.021	-.015	.007
121	94.2	.063	.067	.018	-.026	-.056	-.045
122	3.0	.751	.746	.731	.723	.710	
123	10.0	.472	.484	.469	.463	.454	
124	25.0	.227	.243	.228	.222	.213	
125	41.0	.104	.114	.096	.083	.070	
126	52.5	.074	.088	.067	.048	.035	
127	62.5	.056	.067	.041	.014	-.005	
128	72.5	.064	.074	.039	-.004	-.036	
129	78.0	.071	.084	.044	-.009	-.047	
130	85.3	.094	.114	.063	.006	-.032	
131	94.1	.084	.098	.003	-.049	-.059	
132	3.0	.746	.748	.734	.726	.713	
133	10.0	.475	.491	.478	.474	.465	
134	25.0	.242	.259	.248	.243	.234	
135	41.0	.131	.146	.131	.121	.108	
136	52.5	.101	.117	.104	.091	.077	
137	62.5	.129	.151	.140	.126	.113	
138	72.5	.164	.184	.170	.156	.142	
139	83.4	.275	.319	.325	.307	.298	
140	94.0	.093	.122	.103	.032	.004	
141	3.0	.751	.754	.739	.735	.726	
142	10.0	.471	.486	.473	.471	.464	
143	25.0	.249	.265	.252	.250	.244	
144	41.0	.143	.152	.138	.133	.126	
145	52.5	.127	.136	.124	.119	.114	
146	62.5	.156	.188	.164	.159	.154	
147	72.5	.197	.207	.193	.186	.176	
148	84.0	.302	.348	.350	.353	.358	
149	92.0	.142	.162	.158	.153	.154	
150	3.0	.726	.734	.720	.720	.712	
151	10.0	.429	.453	.445	.448	.448	
152	25.0	.206	.227	.214	.219	.221	
153	41.0	.077	.074	.057	.054	.049	
154	52.5	.057	.044	.023	.017	.010	
155	62.5	.106	.103	.087	.086	.084	
156	72.5	.167	.174	.168	.180	.201	
157	84.9	.048	.028	.025	.035	.057	

NACA

[redacted]

TABLE 73

[$\Lambda = -45^\circ$, $\delta_{a_n} = -10.0^\circ$, $\alpha = -2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	--	--	--	--	--	
2	6.0	--	--	--	--	--	
3	15.0	--	--	--	--	--	
4	27.5	--	--	--	--	--	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	-0.082	-0.093	-0.096	-0.090	-0.181	
8	67.5	-.055	-.055	-.060	-.056	-.083	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	--	--	--	--	--	
15	27.5	-.135	-.176	-.225	-.277	-.297	
16	40.0	-.154	-.194	-.239	-.304	-.362	
17	50.0	-.151	-.185	-.220	-.267	-.378	
18	59.0	-.129	-.156	-.182	-.207	-.368	
19	67.5	-.086	-.110	-.123	-.120	-.299	
20	77.5	-.046	-.059	-.065	-.059	-.198	
21	88.0	.023	.015	.012	.016	-.053	
22	95.3	--	--	--	--	--	
C23	2.0	.418	.452	.463	.473	.478	
24	6.0	.175	.202	.216	.228	.235	
25	15.0	-.003	-.005	-.003	.006	.017	
26	27.5	-.103	-.130	-.155	-.159	-.153	
27	40.0	-.146	-.186	-.233	-.255	-.253	
28	50.0	-.141	-.176	-.232	-.302	-.308	
29	59.0	-.132	-.164	-.207	-.270	-.296	
30	67.5	-.091	-.115	-.147	-.200	-.253	
31	77.5	-.055	-.075	-.100	-.133	-.221	
32	88.0	.028	.005	-.014	-.036	-.138	
33	95.3	--	--	--	--	--	
D34	2.0	.325	.344	.347	.348	.342	
35	15.0	-.003	.001	.001	.002	-.001	
36	27.5	-.078	-.088	-.094	-.095	-.101	
37	40.0	-.131	-.151	-.165	-.170	-.181	
38	50.0	-.139	-.163	-.183	-.191	-.191	
39	59.0	-.103	-.125	-.161	-.190	-.191	
40	67.5	--	--	--	--	--	
41	77.5	-.069	-.066	-.087	-.101	-.103	
42	87.5	.000	-.019	-.043	-.061	-.068	
43	94.2	.038	.017	-.004	-.022	-.027	
E44	2.0	.333	.347	.347	.347	.321	
45	6.0	.140	.152	.147	.150	.135	
46	15.0	.000	.001	-.007	-.005	-.023	
47	27.5	-.072	-.080	-.089	-.089	-.104	
48	40.0	-.118	-.131	-.146	-.149	-.164	
49	50.0	-.122	-.138	-.155	-.158	-.168	
50	59.0	-.108	-.125	-.144	-.150	-.159	
51	67.5	-.085	-.101	-.124	-.136	-.164	
52	77.5	-.049	-.061	-.070	-.073	-.113	
53	88.5	.089	.078	.072	.072	.064	
54	95.5	.015	.011	.002	.000	-.006	
F55	2.0	--	--	--	--	--	
56	6.0	.150	.159	.157	.160	.143	
57	15.0	.014	.014	.007	.008	-.009	
58	27.5	-.058	-.064	-.073	-.077	-.096	
59	49.0	-.097	-.108	-.123	-.126	-.144	
60	50.0	-.092	-.104	-.117	-.121	-.138	
61	59.0	-.068	-.079	-.090	-.093	-.108	
62	67.5	-.045	-.054	-.068	-.070	-.087	
63	86.5	.027	.027	.022	.023	.016	
64	94.6	.017	.007	-.005	-.008	-.019	
G65	2.0	.357	.370	.371	.380	.370	
66	6.0	.162	.171	.169	.177	.168	
67	15.0	.036	.037	.034	.036	.027	
68	27.5	-.035	-.040	-.053	-.050	-.061	
69	40.0	-.074	-.084	-.095	-.098	-.112	
70	50.0	-.068	-.077	-.089	-.092	-.105	
71	59.0	-.035	-.041	-.053	-.055	-.069	
72	67.5	-.013	-.025	-.041	-.042	-.055	
73	77.5	.148	.154	.152	.149	.137	
74	87.2	-.039	-.024	-.024	-.026	-.030	
75	96.8	.040	.069	.022	.015	.006	
H76	2.0	.305	.323	.331	.342	.348	
77	6.0	.127	-.141	.148	.161	.164	
78	15.0	.018	.024	.027	.036	.038	
79	27.5	-.043	-.047	-.052	-.047	-.047	
80	40.0	-.079	-.093	-.106	-.106	-.115	
81	50.0	-.086	-.102	-.117	-.121	-.137	
82	59.0	-.058	-.068	-.081	-.082	-.090	
83	67.5	-.016	-.020	-.029	-.029	-.032	
84	88.3	.051	.050	.046	.047	.037	
85	94.2	.043	.041	.037	.039	.022	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	--	--	--	--	--	
87	10.0	--	--	--	--	--	
88	25.0	--	--	--	--	--	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	-0.048	-0.037	-0.015	0.000	-0.040	
92	72.5	-.016	-.011	.001	.015	-.007	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	--	--	--	--	--	
96	10.0	--	--	--	--	--	
97	25.0	-.141	-.211	-.441	-.524	-.632	
98	41.0	-.158	-.140	-.199	-.277	-.416	
99	52.5	-.119	-.115	-.115	-.136	-.285	
100	62.5	-.085	-.082	-.075	-.075	-.172	
101	72.5	-.032	-.033	-.026	-.021	-.080	
102	86.3	.014	.015	.019	.024	-.021	
103	94.5	.054	.052	.053	.058	.019	
104	3.0	-.605	-1.027	-.927	-.914	-.882	
105	10.0	-.426	-.484	-.465	-.713	-.731	
106	25.0	-.293	-.397	-.427	-.406	-.460	
107	41.0	--	--	--	--	--	
108	52.5	--	--	--	--	--	
109	62.5	-.105	-.126	-.165	-.289	-.303	
110	72.5	-.055	-.068	-.083	-.154	-.255	
111	85.1	-.006	-.015	-.026	-.040	-.172	
112	94.6	.043	.028	.018	.006	-.117	
113	3.0	-.598	-.766	-.798	-.791	-.780	
114	10.0	-.316	-.363	-.365	-.610	-.621	
115	25.0	-.260	-.318	-.345	-.401	-.423	
116	41.0	-.224	-.273	-.307	-.314	-.412	
117	52.5	-.181	-.222	-.258	-.250	-.271	
118	62.5	--	--	--	--	--	
119	72.5	-.065	-.089	-.119	-.129	-.132	
120	87.4	.007	-.015	-.045	-.040	-.042	
121	94.2	.024	.009	-.017	-.034	-.035	
122	3.0	-.478	-.672	-.695	-.681	-.667	
123	10.0	-.295	-.342	-.321	-.423	-.462	
124	25.0	-.250	-.300	-.359	-.381	-.401	
125	41.0	-.214	-.254	-.300	-.333	-.402	
126	52.5	-.167	-.194	-.215	-.234	-.312	
127	62.5	-.129	-.152	-.169	-.167	-.205	
128	72.5	-.082	-.101	-.119	-.101	-.135	
129	78.0	-.042	-.057	-.072	-.076	-.089	
130	85.3	-.007	-.019	-.035	-.037	-.051	
131	94.1	.015	.004	-.009	-.014	-.020	
132	3.0	--	--	--	--	--	
133	10.0	-.287	-.336	-.320	-.341	-.415	
134	25.0	-.246	-.288	-.346	-.368	-.367	
135	41.0	-.216	-.256	-.286	-.336	-.364	
136	52.5	-.191	-.225	-.260	-.286	-.341	
137	62.5	-.151	-.177	-.215	-.225	-.260	
138	72.5	-.122	-.143	-.167	-.184	-.240	
139	83.4	-.065	-.076	-.084	-.089	-.124	
140	94.0	.007	-.005	-.019	-.024	-.047	
141	3.0	-.478	-.516	-.495	-.486	-.448	
142	10.0	-.277	-.307	-.311	-.304	-.314	
143	25.0	-.234	-.265	-.282	-.324	-.427	
144	41.0	-.208	-.238	-.257	-.270	-.290	
145	52.5	-.185	-.209	-.231	-.223	-.247	
146	62.5	-.145	-.156	-.186	-.187	-.191	
147	72.5	-.142	-.160	-.183	-.194	-.201	
148	84.0	-.036	-.107	-.123	-.128	-.154	
149	92.0	-.025	-.032	-.042	-.045	-.057	
150	3.0	-.366	-.395	-.399	-.400	-.386	
151	10.0	-.213	-.215	-.206	-.197	-.184	
152	25.0	.337	.119	-.121	-.131	-.105	
153	41.0	-.197	-.217	-.237	-.244	-.220	
154	52.5	-.178	-.200	-.224	-.235	-.260	
155	62.5	-.142	-.160	-.179	-.187	-.205	
156	72.5	-.125	-.141	-.157	-.162	-.186	
157	84.9	-.010	-.019	-.038	-.044	-.048	

NACA

[redacted]

TABLE 74

[$\Lambda = -45^\circ$, $\delta_{a_n} = -10.0^\circ$, $\alpha = 2^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	--	--	--	--	--	
2	6.0	--	--	--	--	--	
3	15.0	--	--	--	--	--	
4	27.5	--	--	--	--	--	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	-0.096	-0.091	-0.080	-0.052	-0.066	
8	67.5	-.067	-.062	-.049	-.027	-.022	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	--	--	--	--	--	
15	27.5	-.237	-.250	-.238	-.516	-.549	
16	40.0	-.217	-.234	-.165	-.388	-.539	
17	50.0	-.192	-.208	-.163	-.168	-.514	
18	59.0	-.165	-.172	-.142	-.055	-.398	
19	67.5	-.101	-.116	-.099	-.034	-.191	
20	77.5	-.060	-.059	-.047	-.010	-.076	
21	88.0	.017	.017	.020	.037	-.001	
22	95.3	--	--	--	--	--	
C23	2.0	-.553	-.559	-.451	-.378	-.316	
24	6.0	-.436	-.499	-.444	-.397	-.359	
25	15.0	-.364	-.506	-.489	-.450	-.421	
26	27.5	-.312	-.403	-.534	-.504	-.468	
27	40.0	-.277	-.327	-.561	-.534	-.521	
28	50.0	-.221	-.251	-.495	-.511	-.497	
29	59.0	-.191	-.210	-.306	-.505	-.487	
30	67.5	-.133	-.146	-.138	-.379	-.388	
31	77.5	-.083	-.090	-.064	-.199	-.358	
32	88.0	.012	.007	.015	-.016	-.236	
33	95.3	--	--	--	--	--	
D34	2.0	-.352	-.354	-.324	-.287	-.249	
35	15.0	-.297	-.339	-.363	-.350	-.341	
36	27.5	-.279	-.327	-.358	-.353	-.360	
37	40.0	-.274	-.326	-.368	-.376	-.375	
38	50.0	-.246	-.293	-.337	-.342	-.352	
39	59.0	-.186	-.226	-.282	-.283	-.298	
40	67.5	--	--	--	--	--	
41	77.5	-.086	-.104	-.147	-.150	-.145	
42	87.5	-.024	-.033	-.074	-.087	-.085	
43	94.2	.021	.004	-.030	-.045	-.047	
E44	2.0	-.307	-.315	-.300	-.259	-.247	
45	6.0	-.284	-.309	-.314	-.300	-.302	
46	15.0	-.273	-.308	-.339	-.323	-.341	
47	27.5	-.258	-.294	-.320	-.322	-.340	
48	40.0	-.254	-.287	-.312	-.314	-.323	
49	50.0	-.225	-.256	-.280	-.274	-.277	
50	59.0	-.192	-.218	-.246	-.243	-.229	
51	67.5	-.129	-.163	-.205	-.224	-.196	
52	77.5	-.079	-.101	-.126	-.130	-.173	
53	88.5	-.050	.037	.017	.017	.012	
54	95.5	.004	-.009	-.026	-.026	-.031	
F55	2.0	--	--	--	--	--	
56	6.0	-.254	-.281	-.299	-.282	-.280	
57	15.0	-.243	-.274	-.302	-.299	-.316	
58	27.5	-.232	-.264	-.288	-.291	-.319	
59	49.0	-.221	-.250	-.270	-.273	-.296	
60	50.0	-.188	-.214	-.235	-.235	-.258	
61	59.0	-.162	-.192	-.218	-.222	-.247	
62	67.5	-.059	-.063	-.066	-.059	-.098	
63	86.5	.013	.008	.005	.009	.013	
64	94.6	.014	.005	-.004	.002	.007	
G65	2.0	-.188	-.199	-.194	-.160	-.143	
66	6.0	-.207	-.231	-.246	-.229	-.229	
67	15.0	-.197	-.223	-.246	-.245	-.251	
68	27.5	-.191	-.218	-.241	-.261	-.252	
69	40.0	-.182	-.209	-.230	-.234	-.242	
70	50.0	-.151	-.174	-.193	-.196	-.206	
71	59.0	-.121	-.150	-.174	-.178	-.192	
72	67.5	-.015	-.017	-.027	-.050	-.082	
73	77.5	.089	.087	.085	.089	.081	
74	87.2	-.043	-.036	-.038	-.034	-.048	
75	96.8	.047	.043	.036	.035	.022	
H76	2.0	-.168	-.174	-.170	-.135	-.113	
77	6.0	-.195	-.216	-.222	-.200	-.191	
78	15.0	-.171	-.187	-.198	-.189	-.192	
79	27.5	-.164	-.183	-.196	-.191	-.182	
80	40.0	-.159	-.178	-.196	-.201	-.198	
81	50.0	-.154	-.158	-.177	-.184	-.207	
82	59.0	-.093	-.107	-.120	-.122	-.130	
83	67.5	-.043	-.053	-.064	-.063	-.072	
84	88.3	.036	.031	.024	.024	.016	
85	94.2	.038	.077	.031	.031	.028	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	--	--	--	--	--	
87	10.0	--	--	--	--	--	
88	25.0	--	--	--	--	--	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	-0.031	-0.031	-0.032	-0.029	-0.049	
92	72.5	-.008	-.005	-.004	.000	-.012	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	--	--	--	--	--	
96	10.0	--	--	--	--	--	
97	25.0	-.075	-.105	-.141	-.175	-.245	
98	41.0	-.098	-.117	-.140	-.159	-.261	
99	52.5	-.073	-.088	-.109	-.126	-.214	
100	62.5	-.058	-.071	-.081	-.080	-.175	
101	72.5	-.003	.006	.000	-.005	-.078	
102	86.3	.036	.033	.033	.038	.003	
103	94.5	.077	.079	.080	.089	.060	
104	3.0	.210	.216	.204	.190	.186	
105	10.0	.028	.023	.007	-.004	-.006	
106	25.0	-.065	-.086	-.119	-.142	-.147	
107	41.0	--	--	--	--	--	
108	52.5	--	--	--	--	--	
109	62.5	-.065	-.081	-.098	-.132	-.198	
110	72.5	-.026	-.023	-.037	-.061	-.149	
111	85.1	.020	.016	.004	-.014	-.096	
112	94.6	.063	.058	.051	.037	-.066	
113	3.0	.132	.129	.114	.103	.087	
114	10.0	.024	.019	.007	-.002	-.011	
115	25.0	-.058	-.071	-.087	-.096	-.104	
116	41.0	-.093	-.109	-.128	-.137	-.136	
117	52.5	-.090	-.106	-.128	-.138	-.135	
118	62.5	--	--	--	--	--	
119	72.5	-.031	-.042	-.061	-.075	-.072	
120	87.4	.043	.033	.019	.003	-.005	
121	94.2	.041	.033	.009	-.009	-.021	
122	3.0	.152	.152	.145	.126	-.105	
123	10.0	.026	.022	.009	-.008	-.024	
124	25.0	-.060	-.076	-.096	-.114	-.140	
125	41.0	-.092	-.110	-.133	-.152	-.181	
126	52.5	-.075	-.093	-.111	-.124	-.146	
127	62.5	-.062	-.076	-.092	-.103	-.118	
128	72.5	-.038	-.053	-.065	-.073	-.069	
129	78.0	-.015	-.020	-.017	-.013	.001	
130	85.3	.037	.042	.034	.030	.024	
131	94.1	.043	.040	.031	.034	.019	
132	3.0	--	--	--	--	--	
133	10.0	.020	.016	.007	-.008	-.024	
134	25.0	-.066	-.081	-.096	-.111	-.137	
135	41.0	-.102	-.122	-.145	-.163	-.191	
136	52.5	-.109	-.131	-.152	-.169	-.196	
137	62.5	-.092	-.111	-.133	-.147	-.170	
138	72.5	-.083	-.101	-.119	-.134	-.157	
139	83.4	-.081	-.094	-.104	-.116	-.136	
140	94.0	.026	.014	.008	.007	.004	
141	3.0	.132	.149	.159	.152	.152	
142	10.0	.005	.008	.009	.002	-.001	
143	25.0	-.072	-.080	-.087	-.095	-.104	
144	41.0	-.109	-.122	-.133	-.140	-.147	
145	52.5	-.118	-.130	-.143	-.151	-.158	
146	62.5	-.109	-.121	-.137	-.148	-.158	
147	72.5	-.113	-.129	-.144	-.153	-.166	
148	84.0	-.098	-.110	-.128	-.140	-.173	
149	92.0	-.010	-.018	-.029	-.035	-.052	
150	3.0	.134	.158	.177	.178	.185	
151	10.0	.028	.048	.065	.072	.084	
152	25.0	.281	-.022	-.081	-.086	-.070	
153	41.0	-.119	-.134	-.147	-.155	-.155	
154	52.5	-.126	-.146	-.165	-.181	-.214	
155	62.5	-.106	-.121	-.136	-.142	-.155	
156	72.5	-.105	-.118	-.130	-.134	-.141	
157	84.9	.010	.001	-.014	-.019	-.021	

NACA

[redacted]

TABLE 75

$[\Lambda = -45^\circ, \delta_{a_n} = -10.0^\circ, \alpha = 7^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	--	--	--	--	--	
2	6.0	--	--	--	--	--	
3	15.0	--	--	--	--	--	
4	27.5	--	--	--	--	--	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	-0.125	-0.329	-0.423	-0.479	-0.559	
8	67.5	-.095	-.278	-.391	-.454	-.547	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	95.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	--	--	--	--	--	
15	27.5	-.662	-.615	-.635	-.661	-.736	
16	40.0	-.546	-.624	-.646	-.670	-.748	
17	50.0	-.404	-.586	-.617	-.655	-.732	
18	59.0	-.310	-.515	-.571	-.612	-.697	
19	67.5	-.219	-.435	-.510	-.557	-.643	
20	77.5	-.130	-.333	-.424	-.473	-.528	
21	88.0	-.065	-.208	-.275	-.326	-.347	
22	95.3	--	--	--	--	--	
C23	2.0	-.801	-.620	-.799	-.751	-.830	
24	6.0	-.813	-.805	-.778	-.763	-.843	
25	15.0	-.753	-.607	-.727	-.713	-.784	
26	27.5	-.685	-.568	-.664	-.694	-.754	
27	40.0	-.536	-.507	-.588	-.652	-.718	
28	50.0	-.405	-.475	-.504	-.562	-.573	
29	59.0	-.322	-.408	-.485	-.511	-.530	
30	67.5	-.227	-.316	-.385	-.411	-.364	
31	77.5	-.164	-.250	-.294	-.326	-.325	
32	88.0	-.098	-.167	-.207	-.240	-.235	
33	95.3	--	--	--	--	--	
D34	2.0	-1.499	-1.373	-1.238	-1.139	-1.031	
35	15.0	-.605	-.855	-1.074	-1.042	-.956	
36	27.5	-.467	-.464	-.750	-.969	-.932	
37	40.0	-.411	-.430	-.311	-.637	-.832	
38	50.0	-.339	-.349	-.310	-.385	-.428	
39	59.0	-.243	-.264	-.276	-.252	-.305	
40	67.5	--	--	--	--	--	
41	77.5	-.140	-.162	-.168	-.191	-.196	
42	87.5	-.096	-.122	-.136	-.109	-.132	
43	94.2	-.079	-.095	-.122	-.100	-.109	
E44	2.0	-1.520	-1.361	-1.268	-1.140	-1.038	
45	6.0	-1.278	-1.353	-1.203	-1.100	-1.002	
46	15.0	-.663	-.998	-1.136	-1.007	-.948	
47	27.5	-.450	-.468	-.743	-.899	-.868	
48	40.0	-.376	-.389	-.394	-.536	-.758	
49	50.0	-.310	-.334	-.342	-.328	-.332	
50	59.0	-.238	-.262	-.264	-.279	-.269	
51	67.5	-.187	-.208	-.219	-.265	-.271	
52	77.5	-.141	-.157	-.153	-.192	-.207	
53	88.5	-.098	-.100	-.107	-.126	-.125	
54	95.5	-.092	-.092	-.097	-.113	-.122	
F55	2.0	--	--	--	--	--	
56	6.0	-1.127	-1.441	-1.201	-1.084	-.986	
57	15.0	-.568	-.738	-1.057	-1.001	-.928	
58	27.5	-.442	-.510	-.504	-.891	-.858	
59	49.0	-.344	-.361	-.398	-.464	-.565	
60	50.0	-.273	-.284	-.291	-.300	-.347	
61	59.0	-.197	-.213	-.218	-.223	-.239	
62	67.5	-.136	-.159	-.162	-.152	-.147	
63	86.5	-.049	-.051	-.062	-.061	-.059	
64	94.5	-.036	-.041	-.050	-.053	-.051	
G65	2.0	-1.563	-1.233	-1.218	-1.094	-.989	
66	6.0	-.751	-1.190	-1.075	-1.028	-.956	
67	15.0	-.508	-.706	1.027	-.926	-.845	
68	27.5	-.382	-.422	-.460	-.557	-.755	
69	40.0	-.307	-.332	-.350	-.364	-.366	
70	50.0	-.227	-.249	-.268	-.268	-.273	
71	59.0	-.155	-.169	-.176	-.174	-.184	
72	67.5	-.089	-.102	-.113	-.110	-.115	
73	77.5	-.023	-.026	-.033	-.039	-.046	
74	87.2	-.066	-.052	-.051	-.064	-.069	
75	95.8	-.038	.028	.031	.020	.019	
H76	2.0	-1.275	-1.207	-1.132	-1.015	-.917	
77	6.0	-.614	-1.160	-.877	-.926	-.857	
78	15.0	-.419	-.466	-.622	-.642	-.676	
79	27.5	-.319	-.362	-.371	-.460	-.412	
80	40.0	-.257	-.293	-.313	-.340	-.385	
81	50.0	-.210	-.243	-.264	-.285	-.337	
82	59.0	-.149	-.175	-.186	-.192	-.223	
83	67.5	-.101	-.115	-.118	-.123	-.126	
84	88.3	.000	-.015	-.021	-.023	-.032	
85	94.2	.063	.001	-.002	-.001	-.019	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	--	--	--	--		
87	10.0	--	--	--	--		
88	25.0	--	--	--	--		
89	41.0	--	--	--	--		
90	52.5	--	--	--	--		
91	62.5	-0.022	-0.057	-0.105	-0.148		
92	72.5	.007	-.045	-.094	-.140		
93	84.0	--	--	--	--		
94	94.0	--	--	--	--		
95	3.0	--	--	--	--		
96	10.0	--	--	--	--		
97	25.0	.034	-.006	-.045	-.063		
98	41.0	-.026	-.068	-.113	-.136		
99	52.5	-.025	-.072	-.124	-.159		
100	62.5	-.026	-.074	-.122	-.153		
101	72.5	.000	-.046	-.092	-.122		
102	86.3	.014	-.032	-.079	-.121		
103	94.5	.026	-.132	-.077	-.114		
104	3.0	.638	.545	.670	.670		
105	10.0	.370	.381	.393	.393		
106	25.0	.137	.130	.126	.124		
107	41.0	--	--	--	--		
108	52.5	--	--	--	--		
109	62.5	.010	-.024	-.058	-.074		
110	72.5	.011	-.022	-.058	-.072		
111	85.1	.015	-.020	-.054	-.073		
112	94.5	.024	-.012	-.054	-.072		
113	3.0	.548	.543	.539	.537		
114	10.0	.348	.347	.350	.349		
115	25.0	.162	.162	.163	.163		
116	41.0	.059	.053	.043	.052		
117	52.5	.023	.010	.003	-.001		
118	62.5	--	--	--	--		
119	72.5	.033	.017	.005	.002		
120	87.4	.053	.034	.040	.034		
121	94.2	.017	.003	-.016	-.014		
122	3.0	.539	.548	.545	.543	0.534	
123	10.0	.332	.342	.340	.338	.332	
124	25.0	.149	.158	.156	.154	.147	
125	41.0	.060	.062	.054	.052	.044	
126	52.5	.034	.036	.031	.030	.025	
127	62.5	.017	.011	.008	.007	.006	
128	72.5	.018	.018	.016	.015	.014	
129	78.0	.036	.035	.035	.035	.034	
130	85.3	.051	.053	.053	.051	.049	
131	94.1	.038	.038	.037	.031	.029	
132	3.0	--	--	--	--	--	
133	10.0	.321	.334	.334	.334	.329	
134	25.0	.140	.149	.149	.149	.144	
135	41.0	.044	.045	.040	.038	.032	
136	52.5	-.003	-.004	-.013	-.016	-.021	
137	62.5	-.017	-.023	-.033	-.039	-.047	
138	72.5	-.038	-.046	-.058	-.067	-.075	
139	85.4	-.053	-.066	-.076	-.078	-.081	
140	94.0	.003	.000	-.003	-.004	-.002	
141	3.0	.516	.534	.543	.545	.543	
142	10.0	.292	.314	.323	.327	.327	
143	25.0	.122	.137	.143	.147	.149	
144	41.0	.023	.032	.035	.038	.039	
145	52.5	-.017	-.013	.013	-.011	-.012	
146	62.5	-.016	-.024	.015	-.029	-.027	
147	72.5	-.069	-.071	-.079	-.081	-.084	
148	84.0	-.069	-.082	-.095	-.101	-.106	
149	92.0	-.015	-.023	-.030	-.029	-.030	
150	3.0	.509	.537	.552	.563	.568	
151	10.0	.281	.316	.335	.347	.356	
152	25.0	.086	.161	.205	.180	.188	
153	41.0	-.007	.003	.009	.017	.023	
154	52.5	-.052	-.049	-.053	-.052	-.051	
155	62.5	-.056	-.060	-.066	-.065	-.065	
156	72.5	-.093	-.103	-.114	-.117	-.121	
157	84.9	-.002	-.001	-.001	.002	.001	

NACA

[redacted]

TABLE 76

$[\Lambda = -45^\circ,\ \delta_{a_n} = 9.8^\circ,\ \alpha = -2^\circ]$

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	--	--	--	--	--	
2	6.0	--	--	--	--	--	
3	16.0	--	--	--	--	--	
4	27.5	--	--	--	--	--	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	-0.096	-0.101	-0.102	-0.092	-0.231	
8	67.5	-.062	-.064	-.065	-.057	-.107	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	--	--	--	--	--	
15	27.5	-.160	-.203	-.261	-.341	-.343	
16	40.0	-.176	-.210	-.255	-.352	-.404	
17	50.0	-.169	-.197	-.228	-.304	-.416	
18	59.0	-.145	-.166	-.189	-.213	-.400	
19	67.5	-.098	-.118	-.124	-.101	-.335	
20	77.5	-.052	-.064	-.066	-.052	-.236	
21	88.0	.021	.016	.016	.021	-.076	
22	95.3	--	--	--	--	--	
C23	2.0	.311	.336	.345	.356	.368	
24	6.0	.095	.098	.106	.118	.130	
25	15.0	-.065	-.071	-.083	-.074	-.060	
26	27.5	-.145	-.179	-.225	-.234	-.212	
27	40.0	-.182	-.223	-.289	-.317	-.296	
28	50.0	-.159	-.205	-.267	-.352	-.358	
29	59.0	-.156	-.187	-.233	-.323	-.339	
30	67.5	-.108	-.129	-.160	-.240	-.287	
31	77.5	-.061	-.081	-.106	-.150	-.258	
32	88.0	.027	.012	-.009	-.041	-.160	
33	95.3	--	--	--	--	--	
D34	2.0	.258	.250	.254	.259	.250	
35	15.0	-.064	-.068	-.077	-.081	-.093	
36	27.5	-.127	-.146	-.163	-.171	-.201	
37	40.0	-.175	-.200	-.228	-.236	-.270	
38	50.0	-.176	-.203	-.236	-.246	-.238	
39	59.0	-.119	-.165	-.199	-.232	-.221	
40	67.5	--	--	--	--	--	
41	77.5	-.097	-.083	-.103	-.126	-.115	
42	87.5	-.003	-.025	-.051	-.080	-.077	
43	94.2	.031	.016	-.006	-.036	-.036	
E44	2.0		.212	.217	.214	.211	
45	6.0		.035	.031	.029	-.024	
46	15.0		-.092	-.115	-.121	-.134	
47	27.5		-.159	-.188	-.201	-.219	
48	40.0		-.210	-.249	-.269	-.300	
49	50.0		-.205	-.242	-.270	-.296	
50	59.0		-.182	-.211	-.229	-.274	
51	67.5		-.135	-.154	-.153	-.169	
52	77.5		-.076	-.091	-.092	-.095	
53	88.5		.051	.036	.035	.025	
54	95.5		.011	.002	.002	.002	
F55	2.0		--	--	--	--	
56	6.0		.042	.040	.039	.034	
57	15.0		-.085	-.097	-.103	-.114	
58	27.5		-.161	-.186	-.194	-.211	
59	49.0		-.215	-.248	-.264	-.292	
60	50.0		-.223	-.259	-.272	-.309	
61	59.0		-.210	-.245	-.256	-.260	
62	67.5		-.190	-.224	-.245	-.263	
63	86.5		-.088	-.110	-.121	-.122	
64	94.6		.020	.009	.003	-.002	
G65	2.0		.256	.269	.273	.278	
66	6.0		.069	.077	-.080	.083	
67	15.0		-.052	-.057	-.058	-.061	
68	27.5		-.134	-.147	-.150	-.161	
69	40.0		-.194	-.215	-.222	-.230	
70	50.0		-.211	-.236	-.247	-.251	
71	59.0		-.201	-.225	-.238	-.251	
72	67.5		-.188	-.213	-.225	-.240	
73	77.5		-.177	-.196	-.206	-.229	
74	87.2		-.093	-.129	-.138	-.150	
75	96.8		.028	.013	.007	-.006	
H76	2.0		.256	.275	.280	.285	
77	6.0		.084	.098	.105	.112	
78	15.0		-.023	-.016	-.008	.002	
79	27.5		-.086	-.094	-.086	-.077	
80	40.0		-.148	-.155	-.151	-.142	
81	50.0		-.172	-.184	-.182	-.188	
82	59.0		-.162	-.176	-.171	-.162	
83	67.5		-.155	-.173	-.171	-.166	
84	88.3		-.106	-.126	-.130	-.137	
85	94.2		-.042	-.055	-.058	-.060	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	--	--	--	--	--	
87	10.0	--	--	--	--	--	
88	25.0	--	--	--	--	--	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	-0.042	-0.038	-0.031	-0.023	-0.056	
92	72.5	-.013	-.008	.003	.000	-.019	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	--	--	--	--	--	
96	10.0	--	--	--	--	--	
97	25.0	-.160	-.137	-.170	-.268	-.366	
98	41.0	-.150	-.153	-.136	-.118	-.349	
99	52.5	-.114	-.119	-.110	-.080	-.266	
100	62.5	-.080	-.083	-.079	-.051	-.160	
101	72.5	-.024	-.025	-.023	-.012	-.077	
102	86.3	.017	.019	.021	.029	-.029	
103	94.5	.057	.058	.059	.063	.007	
104	3.0	-.535	-.654	-.647	-.649	-.630	
105	10.0	-.336	-.436	-.451	-.453	-.453	
106	25.0	-.237	-.322	-.436	-.426	-.407	
107	41.0	--	--	--	--	--	
108	52.5	--	--	--	--	--	
109	62.5	-.113	-.128	-.131	-.282	-.386	
110	72.5	-.045	-.056	-.058	-.092	-.320	
111	85.1	.000	-.006	-.011	-.028	-.211	
112	94.6	.049	.019	.030	.026	-.135	
113	3.0	-.378	-.449	-.495	-.522	-.541	
114	10.0	-.251	-.301	-.327	-.340	-.371	
115	25.0	-.208	-.252	-.272	-.279	-.279	
116	41.0	-.179	-.221	-.254	-.259	-.261	
117	52.5	-.150	-.185	-.222	-.231	-.208	
118	62.5	--	--	--	--	--	
119	72.5	-.049	-.069	-.108	-.126	-.107	
120	87.4	.020	.004	-.024	-.084	-.035	
121	94.2	.027	.014	-.012	-.055	-.041	
122	3.0		-.303	-.319	-.336	-.370	
123	10.0		-.224	-.242	-.226	-.237	
124	25.0		-.207	-.227	-.229	-.249	
125	41.0		-.160	-.199	-.194	-.188	
126	52.5		-.134	-.152	-.148	-.134	
127	62.5		-.115	-.144	-.156	-.1[illegible]	
128	72.5		-.065	-.113	-.140	-.199	
129	78.0		-.044	-.068	-.078	-.123	
130	85.3		-.004	-.020	-.025	-.041	
131	94.1		.018	.007	.006	.004	
132	3.0		--	--	--	--	
133	10.0		-.196	-.219	-.214	-.233	
134	25.0		-.181	-.202	-.207	-.238	
135	41.0		-.148	-.167	-.166	-.197	
136	52.5		-.113	-.127	-.128	-.141	
137	62.5		-.033	-.039	-.031	-.023	
138	72.5		.033	.032	.040	.043	
139	83.4		.098	.099	.107	.113	
140	94.0		.040	.031	.033	.034	
141	3.0		-.256	-.273	-.293	-.259	
142	10.0		-.199	-.223	-.219	-.214	
143	25.0		-.163	-.184	-.188	-.211	
144	41.0		-.123	-.141	-.143	-.151	
145	52.5		-.091	-.107	-.112	-.123	
146	62.5		.002	-.006	.004	.003	
147	72.5		.052	.042	.043	.035	
148	84.0		.116	.112	.118	.113	
149	92.0		.072	.069	.069	.062	
150	3.0		-.265	-.278	-.206	-.266	
151	10.0		-.151	-.148	-.130	-.111	
152	25.0		-.046	-.076	-.066	-.051	
153	41.0		-.147	-.174	-.191	-.207	
154	52.5		-.105	-.125	-.130	-.161	
155	62.5		-.027	-.032	-.027	-.022	
156	72.5		.081	.084	.107	.100	
157	84.9		.031	.032	.033	.031	

NACA

[redacted]

TABLE 77

$\left[\Lambda = -45^\circ,\ \delta_{a_n} = 9.8^\circ,\ \alpha = 2^\circ\right]$

[redacted]

UPPER SURFACE							
Tube	Per-cent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	--	--	--	--	--	
2	6.0	--	--	--	--	--	
3	15.0	--	--	--	--	--	
4	27.5	--	--	--	--	--	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	-0.107	-0.094	-0.064	-0.044	-0.145	
8	67.5	-.074	-.067	-.046	-.021	-.078	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	--	--	--	--	--	
15	27.5	-.254	-.223	-.429	-.648	-.709	
16	40.0	-.238	-.231	-.210	-.446	-.698	
17	50.0	-.215	-.213	-.152	-.174	-.614	
18	59.0	-.173	-.170	-.123	-.046	-.424	
19	67.5	-.110	-.120	-.089	-.018	-.253	
20	77.5	-.068	-.062	-.042	.004	-.095	
21	88.0	.011	.014	.020	.043	-.023	
22	95.3	--	--	--	--	--	
C23	2.0	-.815	-.881	-.738	-.638	-.524	
24	6.0	-.561	-.694	-.678	-.635	-.561	
25	15.0	-.444	-.599	-.621	-.590	-.547	
26	27.5	-.359	-.506	-.626	-.631	-.608	
27	40.0	-.313	-.391	-.624	-.621	-.642	
28	50.0	-.253	-.281	-.563	-.547	-.576	
29	59.0	-.215	-.239	-.454	-.524	-.493	
30	67.5	-.150	-.162	-.193	-.447	-.401	
31	77.5	-.093	-.104	-.077	-.315	-.375	
32	88.0	-.003	-.008	-.001	-.083	-.292	
33	95.3	--	--	--	--	--	
D34	2.0	-.553	-.600	-.564	-.504	-.420	
35	15.0	-.380	-.452	-.495	-.486	-.466	
36	27.5	-.335	-.412	-.482	-.491	-.504	
37	40.0	-.323	-.399	-.458	-.514	-.564	
38	50.0	-.262	-.343	-.412	-.459	-.478	
39	59.0	-.208	-.246	-.301	-.337	-.396	
40	67.5	--	--	--	--	--	
41	77.5	-.104	-.128	-.178	-.170	-.176	
42	87.5	-.034	-.046	-.092	-.097	-.099	
43	94.2	.012	.000	-.041	-.050	-.051	
E44	2.0	-.565	-.658	-.620	-.570	-.473	
45	6.0	-.437	-.527	-.544	-.534	-.484	
46	15.0	-.373	-.455	-.492	-.488	-.476	
47	27.5	-.337	-.413	-.477	-.500	-.506	
48	40.0	-.323	-.391	-.474	-.505	-.537	
49	50.0	-.281	-.339	-.419	-.457	-.496	
50	59.0	-.232	-.265	-.357	-.409	-.454	
51	67.5	-.167	-.191	-.198	-.206	-.354	
52	77.5	-.101	-.117	-.130	-.136	-.146	
53	88.5	.033	.022	.016	.016	-.003	
54	95.5	.008	.001	.009	-.007	-.013	
F55	2.0	--	--	--	--	--	
56	6.0	-.417	-.495	-.499	-.482	-.429	
57	15.0	-.356	-.423	-.458	-.455	-.439	
58	27.5	-.330	-.397	-.446	-.457	-.473	
59	49.0	-.319	-.385	-.443	-.473	-.486	
60	50.0	-.294	-.356	-.408	-.433	-.462	
61	59.0	-.264	-.322	-.364	-.407	-.433	
62	67.5	-.212	-.254	-.339	-.379	-.414	
63	86.5	-.040	-.056	-.068	-.082	-.129	
64	94.6	.038	.021	.012	.009	-.013	
G65	2.0	-.413	-.456	-.395	-.357	-.263	
66	6.0	-.341	-.396	-.383	-.361	-.317	
67	15.0	-.290	-.344	-.358	-.347	-.317	
68	27.5	-.276	-.332	-.348	-.370	-.345	
69	40.0	-.263	-.336	-.366	-.375	-.410	
70	50.0	-.264	-.318	-.350	-.349	-.380	
71	59.0	-.232	-.265	-.318	-.325	-.349	
72	67.5	-.212	-.267	-.306	-.320	-.343	
73	77.5	-.175	-.187	-.220	-.206	-.214	
74	87.2	-.033	-.056	-.070	-.072	-.082	
75	96.8	.026	.001	-.016	-.020	-.031	
H76	2.0	-.263	-.305	-.263	-.243	-.199	
77	6.0	-.267	-.277	-.262	-.271	-.239	
78	15.0	-.234	-.245	-.240	-.2[illegible]	-.222	
79	27.5	-.224	-.239	-.232	-.21[illegible]	-.194	
80	40.0	-.227	-.244	-.245	-.23[illegible]	-.205	
81	50.0	-.221	-.243	-.250	-.23[illegible]	-.232	
82	59.0	-.194	-.216	-.226	-.211	-.189	
83	67.5	-.178	-.203	-.225	-.217	-.193	
84	88.3	-.146	-.179	-.202	-.209	-.216	
85	94.2	-.078	-.102	-.121	-.128	-.135	

LOWER SURFACE							
Tube	Per-cent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	--	--	--	--	--	
87	10.0	--	--	--	--	--	
88	25.0	--	--	--	--	--	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	-0.024	-0.027	-0.039	-0.028	-0.068	
92	72.5	.000	-.001	-.003	.002	-.035	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	--	--	--	--	--	
96	10.0	--	--	--	--	--	
97	25.0	-.058	-.085	-.123	-.156	-.222	
98	41.0	-.081	-.100	-.126	-.154	-.251	
99	52.5	-.061	-.077	-.199	-.121	-.215	
100	62.5	-.048	-.059	-.172	-.082	-.194	
101	72.5	-.011	.002	-.005	-.005	-.121	
102	86.3	.040	.033	.031	.035	-.056	
103	94.8	.074	.071	.075	.084	.020	
104	3.0	.321	.335	.328	.317	.298	
105	10.0	.105	.110	.100	.091	.095	
106	25.0	-.021	-.035	-.063	-.079	-.093	
107	41.0	--	--	--	--	--	
108	52.5	--	--	--	--	--	
109	62.5	-.052	-.073	-.102	-.136	-.197	
110	72.5	-.003	-.008	-.033	-.063	-.142	
111	85.1	.027	.017	.002	-.028	-.107	
112	94.6	.063	.056	.047	.019	-.086	
113	3.0	.239	.243	.229	.221	.199	
114	10.0	.095	.096	.087	.089	.068	
115	25.0	-.009	-.015	-.028	-.034	-.047	
116	41.0	-.047	-.060	-.078	-.085	-.096	
117	52.5	-.054	-.067	-.087	-.097	-.107	
118	62.5	--	--	--	--	--	
119	72.5	-.009	-.019	-.038	-.051	-.065	
120	87.4	.057	.043	.024	.006	.000	
121	94.2	.047	.034	.006	-.009	-.022	
122	3.0	.271	.292	.275	.273	.244	
123	10.0	.107	.124	.110	.110	.089	
124	25.0	.007	.009	-.004	-.005	-.022	
125	41.0	-.033	-.035	-.048	-.050	-.065	
126	52.5	-.025	-.029	-.043	-.045	-.057	
127	62.5	-.022	-.030	-.046	-.056	-.078	
128	72.5	-.009	-.020	-.044	-.057	-.102	
129	78.0	.015	.008	-.004	-.012	-.042	
130	85.3	.047	.043	.030	.027	.009	
131	94.1	.050	.047	.040	.041	.024	
132	3.0	--	--	--	--	--	
133	10.0	.117	.129	.116	.115	.093	
134	25.0	.018	.023	.009	.007	-.010	
135	41.0	-.012	-.009	-.024	-.025	-.041	
136	52.5	-.006	-.004	-.012	-.012	-.024	
137	62.5	.024	.027	.019	.019	.006	
138	72.5	.071	.074	.06[illegible]	.100	.093	
139	83.4	.147	.156	.156	.163	.157	
140	94.0	.067	.061	.054	.052	.039	
141	3.0	.261	.262	.270	.275	.254	
142	10.0	.103	.114	.105	.107	.096	
143	25.0	.021	.023	.012	.012	.002	
144	41.0	-.002	-.003	-.013	-.011	-.022	
145	52.5	.010	.009	.001	.002	-.006	
146	62.5	.033	.035	.026	.026	.016	
147	72.5	.080	.080	.084	.084	.079	
148	84.0	.155	.160	.155	.160	.153	
149	92.0	.089	.088	.082	.083	.076	
150	3.0	.220	.244	.245	.257	.253	
151	10.0	.090	.108	.115	.125	.128	
152	25.0	-.029	-.014	-.026	-.023	-.020	
153	41.0	-.048	-.061	-.080	-.084	-.101	
154	52.5	-.033	-.046	-.065	-.068	-.081	
155	62.5	.023	.019	.014	.017	.017	
156	72.5	.113	.128	.135	.145	.151	
157	84.9	.031	.033	.029	.030	.031	

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TABLE 78

[$\Lambda = -45^\circ$, $\delta_{a_n} = 9.8^\circ$, $\alpha = 7^\circ$]

[redacted]

UPPER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
A 1	2.0	--	--	--	--	--	
2	6.0	--	--	--	--	--	
3	15.0	--	--	--	--	--	
4	27.5	--	--	--	--	--	
5	40.0	--	--	--	--	--	
6	50.0	--	--	--	--	--	
7	59.0	-0.165	-0.282	-0.349	-0.436	-0.517	
8	67.5	-.136	-.264	-.363	-.448	-.532	
9	77.5	--	--	--	--	--	
10	87.5	--	--	--	--	--	
11	96.0	--	--	--	--	--	
B12	2.0	--	--	--	--	--	
13	6.0	--	--	--	--	--	
14	15.0	--	--	--	--	--	
15	27.5	-.668	-.646	-.626	-.657	-.712	
16	40.0	-.611	-.648	-.640	-.667	-.729	
17	50.0	-.501	-.604	-.621	-.653	-.726	
18	59.0	-.392	-.521	-.572	-.628	-.694	
19	67.5	-.298	-.447	-.518	-.580	-.658	
20	77.5	-.202	-.361	-.444	-.511	-.589	
21	88.0	-.120	-.235	-.303	-.383	-.409	
22	95.3	--	--	--	--	--	
C23	2.0	-.886	-.991	-.952	-.757	-.793	
24	6.0	-.883	-.932	-.898	-.768	-.816	
25	15.0	-.765	-.865	-.845	-.723	-.763	
26	27.5	-.671	-.685	-.743	-.715	-.740	
27	40.0	-.588	-.577	-.627	-.695	-.736	
28	50.0	-.439	-.567	-.564	-.621	-.686	
29	59.0	-.360	-.480	-.549	-.574	-.581	
30	67.5	-.297	-.368	-.465	-.508	-.547	
31	77.5	-.238	-.287	-.343	-.417	-.387	
32	88.0	-.140	-.206	-.188	-.225	-.258	
33	95.3	--	--	--	--	--	
D34	2.0	-1.477	-1.184	-1.135	-1.184	-1.077	
35	15.0	-.655	-1.010	-.994	-1.076	-.998	
36	27.5	-.513	-.696	-.838	-1.003	-.972	
37	40.0	-.481	-.503	-.575	-.832	-.939	
38	50.0	-.401	-.422	-.451	-.559	-.866	
39	59.0	-.285	-.395	-.320	-.323	-.413	
40	67.5	--	--	--	--	--	
41	77.5	-.167	-.204	-.176	-.135	-.176	
42	87.5	-.108	-.150	-.117	-.084	-.077	
43	94.2	-.078	-.114	-.113	-.093	-.083	
E44	2.0	-1.431	-1.529	-1.336	-1.195	-1.119	
45	6.0	-1.452	-1.472	-1.292	-1.159	-1.049	
46	15.0	-1.124	-1.266	-1.196	-1.088	-.987	
47	27.5	-.483	-.675	-1.105	-1.025	-.970	
48	40.0	-.410	-.470	-.840	-.985	-.912	
49	50.0	-.353	-.387	-.474	-.831	-.889	
50	59.0	-.286	-.305	-.217	-.297	-.590	
51	67.5	-.221	-.245	-.171	-.210	-.234	
52	77.5	-.139	-.172	-.131	-.180	-.209	
53	88.5	-.060	-.105	-.102	-.126	-.142	
54	95.5	-.062	-.101	-.096	-.112	-.135	
F55	2.0	--	--	--	--	--	
56	6.0	-1.396	-1.472	-1.279	-1.247	-1.041	
57	15.0	-.777	-1.178	-1.181	-1.067	-.970	
58	27.5	-.595	-.705	-1.094	-1.024	-.940	
59	49.0	-.438	-.535	-.679	-.931	-.904	
60	50.0	-.348	-.416	-.461	-.304	-.755	
61	59.0	-.287	-.330	-.359	-.409	-.441	
62	67.5	-.226	-.266	-.271	-.316	-.332	
63	86.5	-.083	-.122	-.146	-.166	-.180	
64	94.6	-.062	-.090	-.129	-.155	-.158	
G65	2.0	-1.389	-1.342	-1.297	-1.162	-1.049	
66	6.0	-1.348	-1.322	-1.185	-1.094	-1.004	
67	15.0	-.841	-1.031	-1.121	-.991	-.893	
68	27.5	-.480	-.701	-.691	-.789	-.816	
69	40.0	-.420	-.490	-.626	-.566	-.485	
70	50.0	-.361	-.411	-.515	-.594	-.543	
71	59.0	-.347	-.341	-.395	-.442	-.498	
72	67.5	-.253	-.281	-.332	-.347	-.360	
73	77.5	-.190	-.204	-.231	-.239	-.237	
74	87.2	-.133	-.115	-.161	-.175	-.160	
75	96.8	-.150	-.071	-.133	-.151	-.138	
H76	2.0	-1.559	-1.363	-1.209	-1.079	-.971	
77	6.0	-.684	-1.299	-1.070	-.986	-.897	
78	15.0	-.518	-.510	-.672	-.732	-.723	
79	27.5	-.407	-.441	-.447	-.470	-.401	
80	40.0	-.356	-.394	-.367	-.367	-.378	
81	50.0	-.324	-.367	-.347	-.319	-.302	
82	59.0	-.293	-.336	-.310	-.280	-.252	
83	67.5	-.286	-.328	-.315	-.278	-.237	
84	88.3	-.303	-.369	-.419	-.455	-.470	
85	94.2	-.221	-.279	-.303	-.296	-.285	

LOWER SURFACE							
Tube	Percent chord	Mach Number 0.60	0.80	0.89	0.925	0.96	
86	3.0	--	--	--	--	--	
87	10.0	--	--	--	--	--	
88	25.0	--	--	--	--	--	
89	41.0	--	--	--	--	--	
90	52.5	--	--	--	--	--	
91	62.5	-0.021	-0.058	-0.079	-0.136	-0.155	
92	72.5	-.009	-.046	-.071	-.129	-.159	
93	84.0	--	--	--	--	--	
94	94.0	--	--	--	--	--	
95	3.0	--	--	--	--	--	
96	10.0	--	--	--	--	--	
97	25.0	.040	.009	-.006	-.038	-.030	
98	41.0	-.019	-.056	-.075	-.113	-.104	
99	52.5	-.021	-.064	-.090	-.137	-.137	
100	62.5	-.028	-.069	-.090	-.135	-.123	
101	72.5	.004	-.038	-.054	-.099	-.095	
102	86.3	.005	-.036	-.049	-.104	-.121	
103	94.5	.011	-.037	-.051	-.104	-.117	
104	3.0	.592	.695	.722	.702	.707	
105	10.0	.326	.423	.447	.428	.436	
106	25.0	.085	.161	.177	.156	.167	
107	41.0	--	--	--	--	--	
108	52.5	--	--	--	--	--	
109	62.5	-.012	-.042	-.054	-.082	-.073	
110	72.5	.017	-.016	-.024	-.053	-.040	
111	85.1	.013	-.024	-.031	-.063	-.052	
112	94.6	.020	-.020	-.026	-.061	-.053	
113	3.0	.551	.581	.597	.574	.582	
114	10.0	.382	.392	.410	.390	.398	
115	25.0	.191	.201	.221	.202	.213	
116	41.0	.092	.094	.112	.092	.105	
117	52.5	.046	.042	.065	.038	.048	
118	62.5	--	--	--	--	--	
119	72.5	.046	.032	.042	.024	.033	
120	87.4	.059	.032	.058	.047	.050	
121	94.2	.023	.003	.004	.000	.005	
122	3.0	.581	.566	.586	.585	.481	
123	10.0	.382	.393	.391	.391	.388	
124	25.0	.204	.221	.213	.213	.213	
125	41.0	.108	.115	.117	.116	.116	
126	52.5	.083	.087	.086	.085	.084	
127	62.5	.057	.051	.047	.041	.036	
128	72.5	.054	.043	.032	.022	.009	
129	78.0	.060	.049	.044	.026	.025	
130	85.3	.070	.064	.062	.058	.051	
131	94.1	.048	.039	.039	.037	.031	
132	3.0	--	--	--	--	--	
133	10.0	.382	.396	.399	.397	.398	
134	25.0	.218	.221	.225	.226	.227	
135	41.0	.124	.135	.135	.137	.138	
136	52.5	.094	.102	.103	.104	.106	
137	62.5	.098	.108	.111	.113	.117	
138	72.5	.134	.145	.151	.153	.157	
139	83.4	.177	.190	.197	.199	.206	
140	94.0	.057	.050	.040	.032	.031	
141	3.0	.575	.592	.601	.605	.606	
142	10.0	.368	.387	.396	.400	.403	
143	25.0	.208	.224	.232	.238	.243	
144	41.0	.131	.143	.149	.153	.158	
145	52.5	.108	.117	.122	.126	.132	
146	62.5	.099	.142	.143	.140	.152	
147	72.5	.147	.167	.171	.174	.160	
148	84.0	.193	.209	.215	.222	.229	
149	92.0	.099	.104	.101	.104	.110	
150	3.0	.568	.588	.607	.612	.617	
151	10.0	.347	.374	.390	.401	.410	
152	25.0	.043	.247	.257	.240	.253	
153	41.0	.083	.088	.093	.099	.109	
154	52.5	.060	.067	.060	.072	.079	
155	62.5	.097	.106	.115	.123	.133	
156	72.5	.178	.20[illegible]	.220	.235	.251	
157	84.9	.021	.039	.042	.053	.069	

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