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SUBSONIC WIND-TUNNEL INVESTIGATION OF LEADING-EDGE DEVICES ON DELTA WINGS (DATA REPORT)

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ABSTRACT

A subsonic wind tunnel study was carried out to evaluate the drag-reduction potential of leading-edge devices on delta wings at high lift. Fences, pylon-type vortex generators, chordwise slots, and sharp plate extensions were tested on wing models with 60° and 74° swept blunt leading-edges at angles of attack to 32°. Six-component balance and leading-edge surface pressures measurements were taken with various geometry and spanwise arrangements of the devices. This report presents the data without analysis.

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INTRODUCTION

Delta wings with flow separation fixed at sharp leading edges have been extensively studied and their aerodynamic characteristics are fairly well understood. A major short-coming of such wings is the large increase in the lift-dependent drag due to total loss of leading-edge suction. Recent investigations on delta wings with rounded leading edges have shown that attached flow can be preserved, and consequently a lower drag level maintained, up to some angle of attack. Limited attempts have been made to delay the onset and spread of separation by means of leading-edge devices, mainly to cure stability problems on delta-winged configurations; of these, the fence is a successful and well-known example (references 1, 2, and 3). However, little work has been reported on devices specifically designed for drag reduction of highly-swept delta wings at high lift.

An experimental program was undertaken with the primary objective of generating a data base on leading-edge devices using delta wing models of 60° and 74° sweep angle. In addition to fences and chordwise slots, two novel devices, viz., pylon-type vortex generators and vortex plate extensions, were investigated. Various spanwise arrangements were tested, including a few combinations of the different devices.

The tests were conducted in NASA Langley 7- by 10-foot high speed wind tunnel at Mach number 0.20 and Reynolds number 0.4×10^6 per meter. Six-component balance and pressure measurements were made in the angle of attack range 0° to 32°. This report presents the data without analysis.

SYMBOLS

The International System of Units were used in this report except as otherwise noted (reference 4). Data measurements and calculations were made in the U. S. Customary Units. See Table 1 for the moment reference center of each model. The symbols in brackets denote definition for tabulated data in Table 4.

b	wing span
$\bar{c}$	wing reference chord
C_A (CA)	axial force coefficient, $\frac{\text{axial force}}{q_\infty S}$
C_D (CD)	drag coefficient, $\frac{\text{drag force}}{q_\infty S}$
$C_{D,CW}$	drag coefficient of clean wing
C_L (CL)	lift coefficient, $\frac{\text{lift force}}{q_\infty S}$
C_ℓ (CRM)	body axis rolling moment coefficient, $\frac{\text{rolling moment}}{q_\infty S b}$
C_m (CMS)	pitching moment coefficient, $\frac{\text{pitching moment}}{q_\infty S \bar{c}}$
C_N (CN)	normal force coefficient, $\frac{\text{normal force}}{q_\infty S}$
C_p (CP)	pressure coefficient, $\frac{p-p_\infty}{q_\infty}$
F	fence
ℓ	root chord
L/D	lift-drag ratio
PD	percent drag reduction, $\left(\frac{C_D - C_{D,CW}}{C_{D,CW}}\right) \times 100$
q_∞(Q)	free stream dynamic pressure
S	wing reference area

SLEE	sharp leading-edge extension
VG	pylon-type vortex generator
XCP/ℓ	center of pressure distance from wing apex, percent of root chord
α	angle of attack, degrees
α_{max}	maximum angle of attack tested

DESCRIPTION OF MODELS

74° Delta (Test 46)

This aluminum model was a thick flat plate delta with semi-circular leading edges of constant radius and a circular 'fuselage' to house the balance (Figures 1 and 2). Chordwise slots were cut into each leading edge at the 25, 50, and 75 percent semispan positions. Pertinent data are presented in Table 1.

60° Delta (Tests 47 and 51)

This model, constructed of wood, also was a flat plate of constant thickness and was provided with two pairs of wing leading edges (semi-elliptic and wedge cross-sections) (Figures 3 and 4). The semi-elliptic leading edges had chordwise slots at the 25, 37.5, 50, 62.5, 75, and 87.5 percent semispan positions. A rectangular body with nose fairing housed the balance on the wing upper surface. See Table 1 for other data.

60° Delta (Test 63)

This was a modification of the model used in Tests 47 and 51 (Figures 5, 6, and Table 1). The semi-elliptic wing leading edges, scaled to twice the thickness of those previously tested, had slots at the 25, 37.5, 50, 62.5, and 75 percent semispan locations. In addition, the right-hand leading edge had six chordwise static pressure stations at the 20, 33, 45, 57, 70, and 82 percent semispan positions. Pressure orifice coordinates are presented in Table 2. A balance and a scani-value were mounted on the top and bottom surfaces respectively, and each provided with an aluminum cover.

DESCRIPTION OF WING LEADING EDGE DEVICES

Open Slots

The wing leading edge slots were 5.1 cm deep in a chordwise direction and 0.089 cm in width for all models. The slots also served to hold the fence(s) and pylon-type vortex generator(s). The slots were sealed when not in use.

Fences (F1-F8)

Figure 7 presents the geometry and dimensions of these devices (the dimensions are valid regardless of the wing leading edge they were tested on). The fences were made from thin, flat plate aluminum stock and tight-fitted into the slots.

Pylon-type Vortex Generators (VG1-VG6)

The geometry and dimensions of these devices are shown in Figure 8. The dimensions are valid regardless of the leading edge they were tested on. With the exception of VG3, these devices were flush with the wing upper surface starting at the leading edge apex. VG4 and VG6 had a 10° inboard toe-in angle while VG5 had a 20° inboard toe-in angle relative to chord-line. All these devices were of thin aluminum plates and held in position by the slots.

Sharp Leading Edge Extensions (SLEE)

These were made of 1.0 mm thick aluminum, and fastened to the lower surface of the wing, projecting ahead of and parallel to the leading edges (Figure 9). Two positions with respect to the leading-edge were tested: the mid-position (M-SLEE) symmetrical with respect to the leading edge, and the low-position (L-SLEE) in the plane of the wing lower surface. Note that

when used in combination with the SLEE the F4-type fences were moved forward in their slots to match the SLEE leading-edge.

APPARATUS, TESTS, AND CORRECTIONS

Tests 46, 47, 51, and 63 were conducted in the Langley 7- by 10-foot wind tunnel (reference 5). Forces and moments were measured by a six component strain gage balance. Pressures were measured by two 5 psi scanivalves during Test 63. The high angle-of-attack sting support system was used for Tests 46, 47, and 63 and the standard sting for Test 51. Table 1 lists pertinent test data, including boundary layer transition trips as computed from reference 6.

Jet boundary and blockage corrections were applied to the data as computed from references 7 and 8 respectively. Corrections for sting and balance deflections under aerodynamic loading were made to angle of attack data. The axial force data in all the tests were corrected for the measured chamber pressure.

PRESENTATION OF RESULTS

The results are presented without analysis. Table 3 provides a configuration summary for all tests and runs, and is the key to the tabulated data listed by Test and Run number. Test deviations from that previously described are denoted by asterisk at the run number in Table 3 and a comment listed under the tabulated data in Table 4. Note that no area corrections have been applied to SLEE data.

The longitudinal aerodynamic characteristics and drag-reduction capabilities of selected configurations are presented in the following figures:

Test	Run	Configuration	Figure
51	38	3 F4's	10
51	48	2 VG4's	11
51	54	6 Slots	12
63	24	L-SLEE & F4	13

REFERENCES

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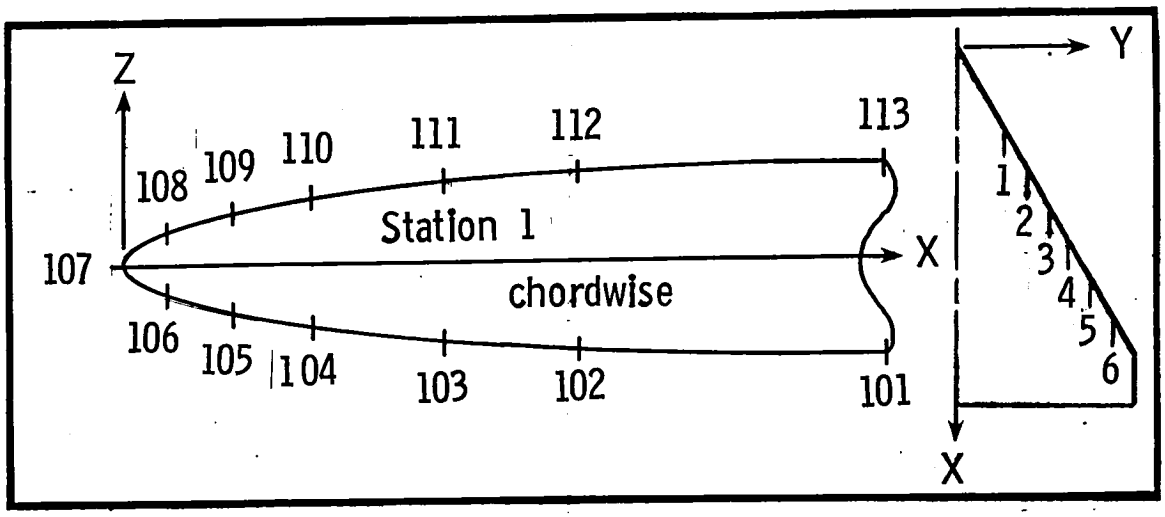
TABLE 1

Model and Test Summary

Model	Test 46	Test 47	Test 51	Test 63
Sweep angle	74°	60°	60°	60°
Surface area, cm^2	2960.	2765.	2765.	3264.
Span, cm	58.3	72.5	72.5	72.4
$\bar{c}$, cm	67.7	46.4	46.4	50.9
Aspect ratio	1.15	1.90	1.90	1.61
Taper ratio, %	0.0	9.87	9.87	18.16
Leading edge radius, cm	0.635	0.117	0.117	0.231
Boundary layer transition trip, chordwise, cm.(60 grit)	none	3.0	3.0	3.3 (Run 26 only)
Moment reference center, cm				
$\bar{x}$, from apex	58.42	32.38	32.38	32.38
$\bar{z}$, from upper surface	0.0	-0.635	-0.635	-0.635
Test				
Mach number	0.20	0.20	0.20	0.16
α_{max}	32°	28°	25°	27°
Reynolds number,				
based on $\bar{c}$	2.7×10^6	4.9×10^6	4.9×10^6	2.0×10^6
based on leading-edge radius	2.5×10^4	1.2×10^4	1.2×10^4	0.9×10^4

TABLE 2

Pressure orifice coordinates. Dimensions in inches from model apex.



STATION 1, Y = 2.87		
Port No.	X	Z
101	4.055	-0.472
102	2.276	-0.432
103	1.601	-0.378
104	0.937	-0.304
105	0.554	-0.242
106	0.202	-0.145
107	0.0	-0.010
108	0.225	0.144
109	0.577	0.239
110	0.966	0.307
111	1.710	0.386
112	2.420	0.433
113	3.986	0.476

STATION 2, Y = 4.705		
Port No.	X	Z
114	4.058	-0.476
115	2.346	-0.439
116	1.550	-0.382
117	0.961	-0.312
118	0.597	-0.244
119	0.272	-0.162
120	0.0	0.020
121	0.220	0.174
122	0.617	0.254
123	1.004	0.309
124	1.748	0.377
125	2.458	0.437
126	4.026	0.478

TABLE 2 CONTINUED.

STATION 3, Y = 6.410		
Port No.	X	Z
127	3.996	-0.478
128	2.348	-0.444
129	1.585	-0.390
130	1.009	-0.321
131	0.583	-0.251
132	0.219	-0.159
133	0.0	-0.016
134	0.264	0.167
135	0.645	0.263
136	0.947	0.315
137	1.685	0.397
138	2.400	0.441
139	4.004	0.480

STATION 4, Y = 8.177		
Port No.	X	Z
140	4.003	-0.482
141	2.435	-0.451
142	1.550	-0.394
143	0.983	-0.321
144	0.590	-0.262
201	0.242	-0.166
202	0.0	-0.005
203	0.306	0.187
204	0.623	0.263
205	0.951	0.318
206	1.700	0.398
207	2.327	0.442
208	3.945	0.482
209	9.450	0.491
210	10.450	
211	11.450	
212	12.450	
213	13.300	
214	14.450	

TABLE 2 CONTINUED.

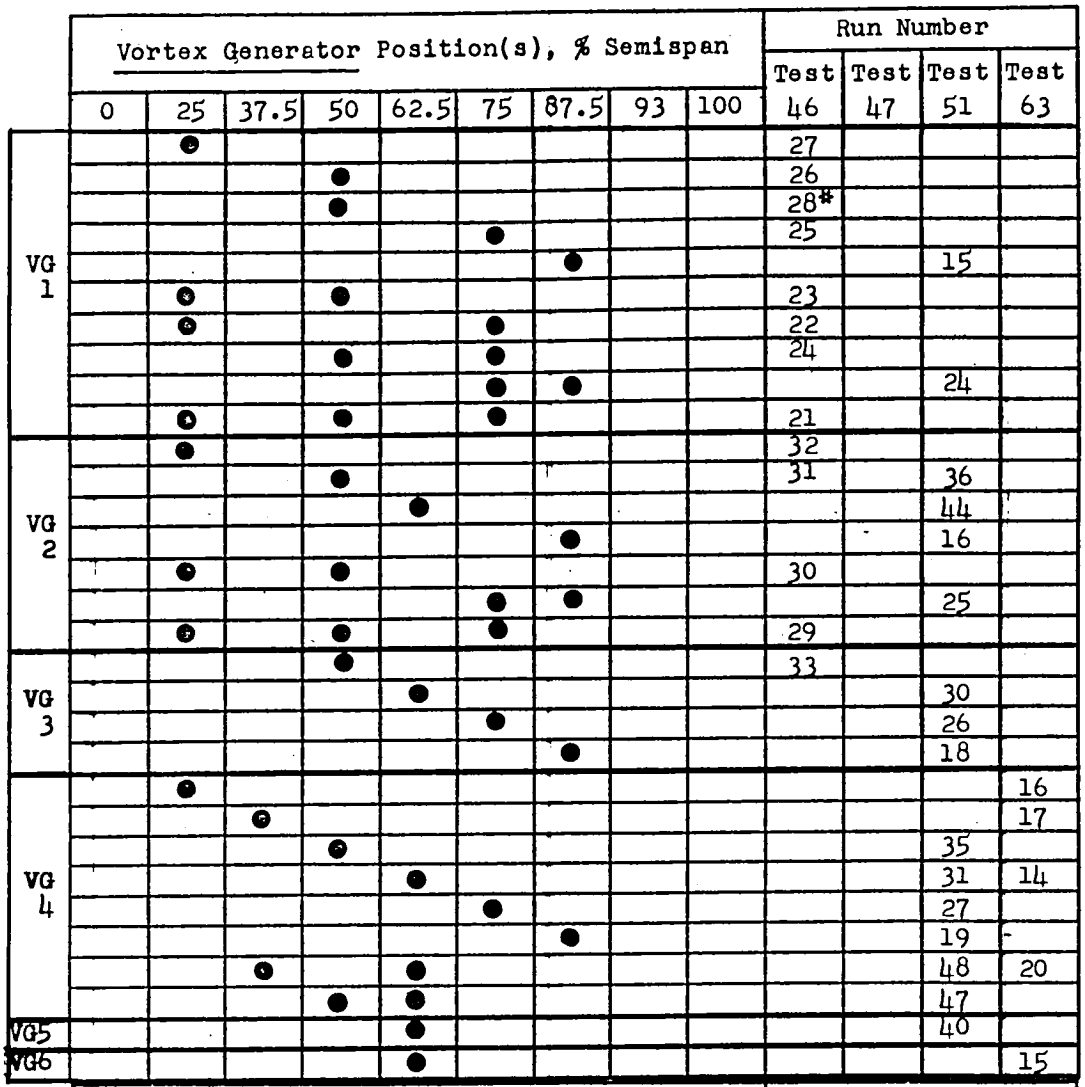
STATION 5, Y = 9.950		
Port No.	X	Z
215	3.950	-0.487
216	2.435	-0.450
217	1.676	-0.398
218	0.976	-0.323
219	0.579	-0.250
220	0.234	-0.156
221	0.0	-0.001
222	0.272	0.179
223	0.637	0.269
224	0.996	0.325
225	1.607	0.392
226	2.315	0.441
227	3.939	0.482
228	9.390	0.491
229	10.390	
230	11.340	

STATION 6, Y = 11.689		
Port No.	X	Z
231	3.988	-0.490
232	2.368	-0.450
233	1.667	-0.396
234	0.931	-0.315
235	0.543	-0.241
236	0.201	-0.148
237	0.0	0.016
238	0.216	0.154
239	0.563	0.256
240	0.957	0.320
241	1.684	0.397
242	2.314	0.443
243	3.984	0.480

Table 3. Device position summary.

	No Devices									Run Number			
										Test 46	Test 47	Test 51	Test 63
										1	1*		1
										2*	2*		2
											7		3
											8		4
											9*		18
											17		26*
											18		
											19		
											21*		
												58	
												61*	

	Fence Position(s), % Semispan									Run Number			
	0	25	37.5	50	62.5	75	87.5	93	100	Test 46	Test 47	Test 51	Test 63
F1		●								10			
				●						9			
						●				8			
							●					12	
		○		●						6			
		●				●				5			
				●		●				7			
						●	●					22	
		○		●		●				4			
F2				●						14		34	
				●								49	
					●							29	
						●						28	
							●					10	
		○		○						13			
		●				●				12			
						●	●					20	
		●		●		●				11			
					◐	●	○					32	
F3				◐						17			
							●					13	
		●		●						16			
						●	●					23	
		○		●		●				15			
F4		◐											8
			●										9
				●						20		37	10
					●							46	11
						●							12
							●					11	
		○		●						19			
						●	●					21	
		●		●		●				18			13
				●	●	●						38	5,6*
					●	●	●					33	
F5		◐									10		
				●							16		
						●					15		
							●					14	
		○		○							11,6		
		○				◐					5,		
		○				●					14		
				○		◐					13		
					◐	●					20		
		○		○		●					3*12		
		◐		●		●					4,25		
				◐	●	●					21		
			◐	●	●	●					22		
		◐	◐	◐	●	●					23		
		◐	◐	●	◐	◐	●					55	
F6					●							39*	
F7					●							45	
F8				◐	◐	◐							7


Vortex Generator Position(s), % Semispan
0
25
37.5
50
62.5
75
87.5
93
100
VG 1
VG 2
VG 3
VG 4
VG5
VG6
Run Number
Test 46
Test 47
Test 51
Test 63
27
26
28*
25
15
23
22
24
24
21
32
31
36
44
16
30
25
29
33
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26
18
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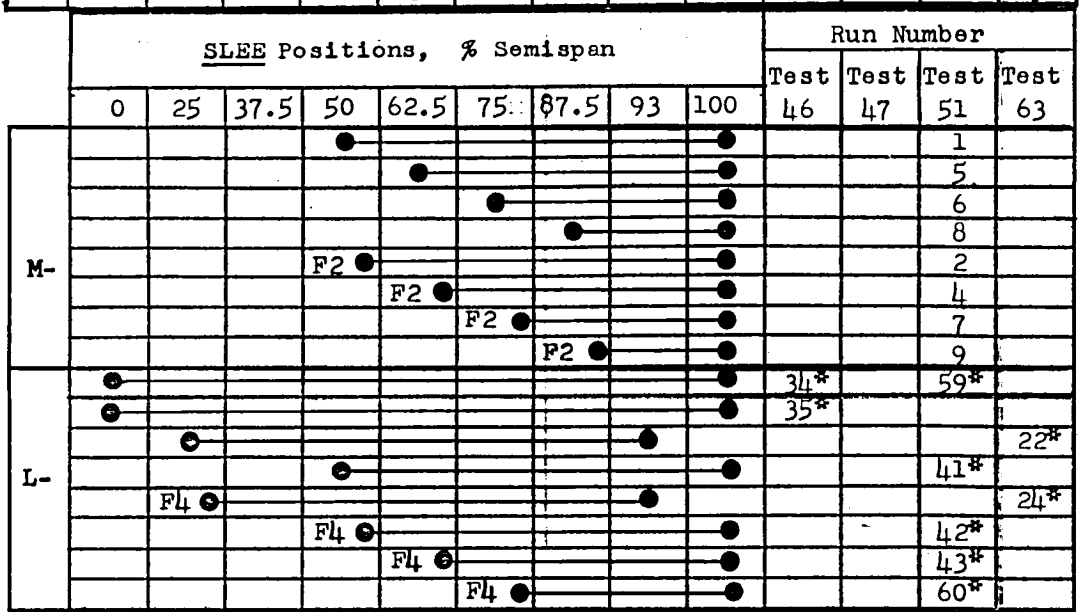
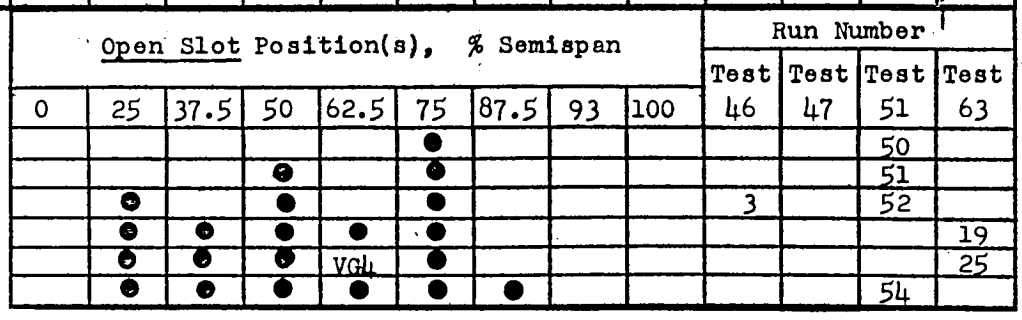
35
31
14
27
19
48
20
47
40
15


SLEE Positions, % Semispan
0
25
37.5
50
62.5
75
87.5
93
100
M-
L-
F2
F4
Run Number
Test 46
Test 47
Test 51
Test 63
1
5
6
8
2
4
7
9
34*
35*
59*
22*
41*
24*
42*
43*
60*


Open Slot Position(s), % Semispan
0
25
37.5
50
62.5
75
87.5
93
100
VG4
Run Number
Test 46
Test 47
Test 51
Test 63
50
51
3
52
19
25
54

TEST TP	46 MACH	Q PASCALS	RUN 1 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28592	.201	2783.2	-.26	-.0123	.0109	.0030	-.0123	.0108	-.0005	-1.13
28593	.201	2781.8	-1.71	-.0458	.0111	.0069	-.0461	.0097	-.0007	-4.13
28594	.201	2789.8	-.28	-.0126	.0108	.0030	-.0126	.0107	-.0005	-1.17
28595	.201	2776.6	1.40	.0366	.0117	-.0029	.0368	.0108	-.0004	3.11
28596	.200	2773.3	2.99	.0767	.0134	-.0090	.0773	.0094	-.0001	5.72
28597	.201	2781.3	4.99	.1374	.0201	-.0186	.1386	.0080	-.0001	6.85
28598	.200	2770.5	7.38	.2196	.0344	-.0323	.2222	.0059	-.0002	6.38
28599	.200	2758.0	9.33	.2912	.0524	-.0418	.2959	.0045	.0000	5.56
28600	.200	2755.0	11.49	.3709	.0777	-.0512	.3789	.0022	.0006	4.78
28601	.199	2748.1	13.67	.4584	.1108	-.0620	.4716	-.0007	.0011	4.14
28602	.200	2768.1	15.94	.5541	.1539	-.0739	.5750	-.0043	.0025	3.60
28603	.201	2776.8	18.15	.6525	.2059	-.0876	.6842	-.0076	.0045	3.17
28604	.200	2771.0	20.15	.7513	.2655	-.1007	.7968	-.0096	.0029	2.83
28605	.200	2774.8	22.45	.8553	.3388	-.1149	.9199	-.0135	.0034	2.52
28606	.200	2764.5	24.87	.9671	.4279	-.1302	1.0574	-.0186	.0052	2.26
28607	.200	2766.7	26.91	1.0618	.5138	-.1421	1.1794	-.0224	.0052	2.07
28608	.201	2778.3	29.01	1.1598	.6123	-.1531	1.3112	-.0269	.0057	1.89
28609	.201	2777.2	31.18	1.2539	.7219	-.1659	1.4465	-.0316	.0058	1.74
28610	.201	2776.9	-.26	-.0082	.0108	.0026	-.0083	.0108	-.0005	-.76

TEST TP	46 MACH	Q PASCALS	RUN 2 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28626	.200	2765.4	-.25	-.0060	.0092	.0012	-.0061	.0092	-.0002	-.65
28627	.200	2769.9	.36	.0155	.0103	-.0013	.0156	.0102	-.0003	1.51
28628	.200	2766.6	1.06	.0320	.0102	-.0032	.0322	.0096	-.0003	3.14
28629	.200	2773.2	1.98	.0553	.0111	-.0061	.0556	.0092	-.0002	4.97
28630	.200	2772.4	2.84	.0797	.0123	-.0101	.0802	.0084	.0007	6.46
28631	.200	2766.7	3.87	.1081	.0148	-.0142	.1089	.0075	.0011	7.31
28632	.200	2766.8	5.17	.1458	.0191	-.0210	.1469	.0059	.0001	7.62
28633	.200	2754.0	7.09	.2137	.0312	-.0321	.2159	.0046	.0001	6.85
28634	.200	2779.4	9.34	.2947	.0510	-.0432	.2990	.0025	.0001	5.78
28635	.200	2764.5	11.38	.3737	.0756	-.0531	.3813	.0004	.0004	4.95
28636	.200	2776.1	13.55	.4577	.1077	-.0629	.4702	-.0025	.0011	4.25
28637	.200	2761.3	15.90	.5574	.1527	-.0750	.5779	-.0058	.0024	3.65
28638	.200	2773.4	17.98	.6476	.2010	-.0872	.6781	-.0087	.0038	3.22
28639	.200	2769.7	20.02	.7464	.2595	-.0997	.7901	-.0117	.0040	2.88
28640	.199	2739.0	22.67	.8683	.3454	-.1162	.9344	-.0159	.0042	2.51
28641	.200	2764.4	24.91	.9717	.4292	-.1309	1.0621	-.0201	.0047	2.26
28642	.201	2782.2	26.95	1.0647	.5142	-.1428	1.1821	-.0241	.0045	2.07
28643	.201	2806.8	28.99	1.1567	.6082	-.1554	1.3065	-.0287	.0045	1.90
28644	.200	2778.8	31.10	1.2523	.7164	-.1683	1.4423	-.0333	.0051	1.75
28645	.199	2750.0	-.38	-.0077	.0094	.0015	-.0078	.0093	-.0005	-.82
28646	.200	2763.2	-.38	-.0041	.0096	.0010	-.0041	.0096	-.0002	-.42

Vertical tail off.

TEST TP	46 MACH	Q PASCALS	RUN 3 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28661	.200	2756.8	-.26	-.0110	.0111	.0027	-.0110	.0111	-.0006	-.99
28662	.200	2780.0	-1.36	-.0384	.0117	.0060	-.0387	.0107	-.0008	-3.30
28663	.200	2780.1	-.44	-.0068	.0123	.0022	-.0069	.0122	-.0004	-.55
28664	.201	2786.2	1.13	.0297	.0126	-.0022	.0299	.0121	-.0003	2.35
28665	.201	2786.7	2.69	.0732	.0143	-.0081	.0738	.0106	.0001	5.12
28666	.201	2786.9	4.99	.1326	.0196	-.0186	.1338	.0080	-.0001	6.77
28667	.200	2779.1	7.10	.1977	.0305	-.0278	.1999	.0058	.0005	6.49
28668	.200	2779.1	9.47	.2644	.0510	-.0414	.2889	.0035	.0007	5.58
28669	.200	2768.7	11.46	.3643	.0755	-.0533	.3720	.0016	.0001	4.82
28670	.200	2781.5	13.75	.4557	.1101	-.0644	.4689	-.0013	.0005	4.14
28671	.200	2764.2	15.79	.5389	.1482	-.0736	.5589	-.0041	.0017	3.64
28672	.201	2784.7	17.89	.6326	.1970	-.0858	.6625	-.0068	.0030	3.21
28673	.201	2788.8	20.16	.7421	.2614	-.1009	.7867	-.0103	.0045	2.84
28674	.200	2764.3	22.74	.8549	.3430	-.1151	.9210	-.0141	.0042	2.49
28675	.200	2778.0	24.90	.9582	.4250	-.1296	1.0481	-.0179	.0048	2.25
28676	.200	2782.3	27.01	1.0539	.5120	-.1428	1.1715	-.0225	.0060	2.06
28677	.201	2796.2	28.97	1.1390	.5997	-.1544	1.2870	-.0270	.0059	1.90
28678	.200	2777.5	31.24	1.2365	.7124	-.1683	1.4267	-.0322	.0075	1.74
28679	.200	2756.8	-.26	-.0116	.0113	.0028	-.0116	.0113	-.0007	-1.02

TEST TP	46 MACH	Q PASCALS	RUN 4 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
26694	.200	2773.7	-.26	-.0106	.0114	.0027	-.0107	.0114	-.0005	-.93
26695	.200	2781.3	-1.33	-.0374	.0118	.0059	-.0376	.0109	-.0005	-3.16
28696	.201	2785.7	-.27	-.0108	.0116	.0027	-.0109	.0115	-.0005	-.94
28697	.201	2766.4	.53	.0161	.0125	-.0004	.0162	.0123	-.0003	1.29
28698	.201	2790.4	1.30	.0346	.0128	-.0026	.0349	.0120	-.0001	2.71
28699	.201	2793.3	1.96	.0508	.0132	-.0047	.0512	.0115	-.0001	3.85
28700	.201	2793.0	3.10	.0837	.0150	-.0103	.0844	.0104	.0007	5.59
28701	.201	2786.1	3.87	.1042	.0167	-.0134	.1051	.0096	.0004	6.25
28702	.201	2791.7	5.01	.1379	.0204	-.0194	.1392	.0083	.0002	6.77
28703	.201	2783.9	6.95	.1945	.0301	-.0264	.1967	.0063	.0001	6.47
28704	.200	2771.3	9.22	.2788	.0498	-.0398	.2832	.0045	.0002	5.60
28705	.200	2756.8	11.43	.3617	.0754	-.0507	.3695	.0023	.0001	4.79
28706	.201	2783.3	13.83	.4543	.1113	-.0621	.4678	-.0005	.0008	4.08
28707	.200	2772.9	15.83	.5350	.1480	-.0725	.5550	-.0036	.0012	3.62
28708	.200	2768.5	18.01	.6284	.1965	-.0868	.6583	-.0075	.0020	3.20
28709	.201	2790.5	20.01	.7213	.2511	-.1004	.7636	-.0108	.0035	2.87
28710	.201	2789.7	22.57	.8381	.3322	-.1166	.9014	-.0149	.0031	2.52
28711	.200	2774.5	24.75	.9436	.4143	-.1326	1.0304	-.0189	.0036	2.28
28712	.201	2802.1	26.89	1.0397	.5012	-.1461	1.1540	-.0232	.0039	2.07
28713	.201	2789.0	29.20	1.1416	.6054	-.1616	1.2919	-.0286	.0051	1.89
28714	.200	2776.1	31.20	1.2231	.7018	-.1732	1.4097	-.0332	.0055	1.74
28715	.201	2789.0	-.25	-.0084	.0116	.0027	-.0085	.0116	-.0002	-.72

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST TP	46 MACH	Q PASCALS	RUN 5 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28718	.201	2786.6	-.26	-.0115	.0113	.0028	-.0116	.0112	-.0003	-1.03
28719	.201	2786.7	.41	.0121	.0122	-.0000	.0122	.0121	-.0002	.99
28720	.201	2787.9	1.18	.0311	.0126	-.0022	.0314	.0119	-.0001	2.47
28721	.201	2788.4	1.90	.0493	.0130	-.0047	.0497	.0113	.0001	3.80
28722	.201	2789.4	2.87	.0745	.0142	-.0088	.0751	.0104	.0006	5.26
28723	.201	2786.8	4.05	.1075	.0167	-.0140	.1084	.0091	.0004	6.43
28724	.200	2781.4	4.97	.1340	.0197	-.0189	.1352	.0080	.0003	6.82
28725	.200	2777.8	7.14	.2017	.0313	-.0276	.2041	.0060	.0005	6.44
28726	.200	2775.9	9.32	.2815	.0501	-.0400	.2859	.0038	.0006	5.62
28727	.200	2764.2	11.62	.3658	.0768	-.0516	.3738	.0015	.0005	4.76
28728	.201	2799.6	13.82	.4537	.1106	-.0624	.4670	-.0010	.0011	4.10
28729	.200	2768.9	15.88	.5355	.1481	-.0719	.5556	-.0041	.0018	3.62
28730	.200	2773.6	18.10	.6327	.1991	-.0850	.6632	-.0074	.0028	3.18
28731	.201	2796.8	20.30	.7335	.2597	-.0990	.7780	-.0109	.0032	2.82
28732	.200	2778.2	22.68	.8440	.3367	-.1140	.9086	-.0148	.0030	2.51
28733	.200	2769.2	25.04	.9570	.4259	-.1306	1.0474	-.0191	.0032	2.25
28734	.200	2777.7	27.19	1.0538	.5147	-.1443	1.1725	-.0237	.0039	2.05
28735	.201	2792.0	29.11	1.1409	.6030	-.1570	1.2902	-.0282	.0046	1.89
28736	.200	2783.9	31.50	1.2440	.7228	-.1705	1.4384	-.0336	.0057	1.72
28737	.201	2793.2	-.26	-.0129	.0112	.0031	-.0130	.0111	-.0003	-1.16

TEST TP	46 MACH	Q PASCALS	RUN 6 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28740	.200	2761.0	-.26	-.0102	.0113	.0027	-.0103	.0112	-.0004	-.91
28741	.201	2790.0	.64	.0188	.0123	-.0009	.0190	.0120	-.0002	1.53
28742	.200	2775.8	1.43	.0385	.0127	-.0030	.0388	.0118	-.0001	3.03
28743	.200	2783.4	2.10	.0546	.0132	-.0053	.0551	.0112	.0001	4.14
28744	.201	2786.7	2.92	.0714	.0141	-.0079	.0720	.0104	.0001	5.07
28745	.200	2780.2	3.92	.1046	.0168	-.0132	.1055	.0096	.0007	6.23
28746	.200	2777.0	4.92	.1337	.0198	-.0182	.1349	.0082	.0001	6.77
28747	.200	2783.3	7.18	.2049	.0319	-.0283	.2073	.0060	.0005	6.43
28748	.200	2781.7	9.17	.2760	.0485	-.0394	.2802	.0039	.0004	5.69
28749	.200	2775.4	11.47	.3676	.0767	-.0533	.3755	.0020	.0004	4.79
28750	.200	2774.7	13.68	.4550	.1101	-.0636	.4681	-.0006	.0009	4.13
28751	.200	2763.9	15.85	.5427	.1500	-.0749	.5631	-.0039	.0010	3.62
28752	.200	2774.4	18.31	.6522	.2074	-.0918	.6843	-.0079	.0025	3.14
28753	.201	2791.3	20.18	.7419	.2610	-.1058	.7864	-.0110	.0037	2.84
28754	.200	2773.1	22.59	.8543	.3397	-.1211	.9192	-.0146	.0044	2.52
28755	.200	2778.4	24.99	.9631	.4279	-.1365	1.0537	-.0190	.0043	2.25
28756	.201	2793.7	26.99	1.0572	.5120	-.1504	1.1744	-.0235	.0048	2.07
28757	.201	2798.8	29.18	1.1570	.6136	-.1647	1.3093	-.0285	.0057	1.89
28758	.201	2792.6	31.53	1.2428	.7230	-.1777	1.4374	-.0337	.0063	1.72
28759	.200	2766.9	-.26	-.0096	.0112	.0027	-.0097	.0112	-.0002	-.86

TEST TP	46 MACH	Q PASCALS	RUN 7 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28773	.201	2793.2	-.26	-.0116	.0110	.0029	-.0116	.0110	-.0003	-1.05
28774	.201	2796.3	.11	.0066	.0122	.0005	.0066	.0122	-.0002	.54
28775	.201	2798.9	1.02	.0270	.0124	-.0017	.0273	.0119	-.0002	2.18
28776	.201	2794.8	1.84	.0474	.0128	-.0044	.0478	.0113	.0000	3.70
28777	.201	2799.8	2.78	.0734	.0141	-.0086	.0740	.0105	.0004	5.21
28778	.201	2799.7	3.94	.1056	.0166	-.0137	.1065	.0093	.0004	6.38
28779	.201	2795.5	4.94	.1331	.0195	-.0188	.1343	.0080	.0002	6.82
28780	.201	2789.4	7.05	.1972	.0302	-.0273	.1995	.0057	-.0001	6.54
28781	.200	2778.0	9.43	.2866	.0516	-.0415	.2912	.0039	-.0000	5.55
28782	.200	2768.8	11.57	.3682	.0772	-.0522	.3762	.0018	.0008	4.77
28783	.199	2754.1	13.86	.4582	.1121	-.0636	.4717	-.0010	.0010	4.09
28784	.200	2768.5	15.86	.5368	.1481	-.0735	.5569	-.0042	.0011	3.62
28785	.201	2792.7	18.01	.6301	.1964	-.0870	.6599	-.0080	.0024	3.21
28786	.200	2772.4	20.26	.7317	.2578	-.1015	.7757	-.0115	.0037	2.84
28787	.200	2762.8	22.64	.8427	.3351	-.1164	.9067	-.0151	.0042	2.51
28788	.200	2781.2	24.82	.9420	.4145	-.1300	1.0289	-.0192	.0048	2.27
28789	.200	2780.2	26.98	1.0361	.5011	-.1433	1.1507	-.0235	.0057	2.07
28790	.201	2783.2	29.26	1.1368	.6041	-.1577	1.2871	-.0286	.0068	1.88
28791	.201	2787.0	31.26	1.2262	.7052	-.1701	1.4141	-.0334	.0062	1.74
28792	.200	2756.8	-.26	-.0115	.0112	.0028	-.0116	.0111	-.0004	-1.03

TEST TP	46 MACH	Q PASCALS	RUN 8 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28795	.200	2781.3	-.29	-.0106	.0112	.0025	-.0107	.0111	-.0003	-.95
28796	.201	2789.7	.45	.0146	.0122	-.0005	.0147	.0121	-.0001	1.19
28797	.201	2793.5	1.38	.0376	.0128	-.0034	.0379	.0119	.0001	2.94
28798	.201	2790.3	1.81	.0475	.0130	-.0046	.0479	.0115	-.0001	3.64
28799	.201	2793.3	3.01	.0775	.0144	-.0097	.0781	.0103	.0007	5.40
28800	.201	2790.7	4.06	.1003	.0158	-.0129	.1012	.0086	.0005	6.36
28801	.200	2779.7	4.97	.1334	.0196	-.0192	.1346	.0079	.0002	6.82
28802	.201	2785.3	7.17	.2027	.0314	-.0283	.2050	.0059	.0006	6.45
28803	.201	2786.5	9.24	.2779	.0491	-.0404	.2822	.0038	.0003	5.66
28804	.200	2778.7	11.61	.3671	.0770	-.0521	.3751	.0015	.0007	4.77
28805	.200	2779.5	13.64	.4467	.1077	-.0622	.4595	-.0007	.0012	4.15
28806	.200	2774.1	15.71	.5296	.1447	-.0713	.5490	-.0041	.0021	3.66
28807	.200	2769.9	18.11	.6364	.2000	-.0853	.6670	-.0077	.0031	3.18
28808	.200	2765.2	20.36	.7428	.2637	-.0997	.7881	-.0111	.0039	2.82
28809	.200	2761.0	22.41	.8342	.3285	-.1113	.8965	-.0143	.0033	2.54
28810	.200	2779.4	24.73	.9452	.4151	-.1269	1.0322	-.0185	.0047	2.28
28811	.201	2796.5	27.19	1.0582	.5172	-.1427	1.1776	-.0235	.0049	2.05
28812	.201	2796.2	29.04	1.1366	.5993	-.1530	1.2846	-.0277	.0053	1.90
28813	.202	2813.0	31.34	1.2317	.7115	-.1653	1.4221	-.0328	.0057	1.73
28814	.200	2776.7	-.27	-.0086	.0114	.0025	-.0087	.0113	-.0004	-.76

TEST 46 RUN 9

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28817	.201	2789.9	-.26	-.0122	.0112	.0029	-.0123	.0111	-.0003	-1.09
28818	.201	2788.1	.35	.0118	.0123	-.0002	.0119	.0122	-.0001	.96
28819	.201	2785.2	1.29	.0341	.0126	-.0026	.0344	.0119	-.0000	2.70
28820	.201	2794.8	1.97	.0503	.0131	-.0049	.0507	.0114	.0000	3.83
28821	.201	2790.0	2.88	.0735	.0141	-.0083	.0741	.0104	.0004	5.22
28822	.201	2790.1	3.97	.1054	.0169	-.0134	.1063	.0096	.0009	6.24
28823	.201	2781.7	5.14	.1379	.0204	-.0193	.1392	.0080	.0000	6.76
28824	.200	2774.4	6.99	.1971	.0303	-.0276	.1993	.0061	.0000	6.51
28825	.200	2768.0	9.35	.2823	.0504	-.0411	.2867	.0039	.0007	5.60
28826	.200	2762.2	11.54	.3696	.0777	-.0537	.3776	.0022	.0007	4.76
28827	.200	2756.4	13.66	.4517	.1090	-.0637	.4647	-.0007	.0010	4.14
28828	.200	2778.1	15.91	.5445	.1506	-.0755	.5649	-.0043	.0011	3.61
28829	.200	2772.2	18.02	.6385	.2001	-.0900	.6691	-.0072	.0027	3.19
28830	.201	2780.3	20.17	.7412	.2608	-.1051	.7857	-.0108	.0045	2.84
28831	.200	2770.5	22.42	.8461	.3336	-.1186	.9093	-.0143	.0048	2.54
28832	.200	2772.2	24.77	.9492	.4180	-.1325	1.0371	-.0182	.0058	2.27
28833	.201	2788.5	26.80	1.0451	.5024	-.1454	1.1594	-.0227	.0058	2.08
28834	.201	2780.7	29.25	1.1474	.6104	-.1610	1.2993	-.0281	.0063	1.88
28835	.201	2789.2	31.26	1.2342	.7114	-.1726	1.4242	-.0325	.0071	1.73
28836	.200	2771.5	-.25	-.0113	.0113	.0029	-.0114	.0112	-.0002	-1.01

TEST 46 RUN 10

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28839	.200	2763.4	-.26	-.0130	.0110	.0027	-.0131	.0110	-.0003	-1.18
28840	.200	2766.8	.36	.0115	.0123	-.0000	.0116	.0122	-.0001	.94
28841	.200	2767.9	1.27	.0318	.0122	-.0026	.0321	.0115	-.0000	2.60
28842	.200	2776.7	2.16	.0543	.0129	-.0055	.0548	.0108	.0001	4.21
28843	.200	2774.4	2.90	.0742	.0144	-.0086	.0748	.0106	.0005	5.17
28844	.200	2770.8	3.76	.0982	.0158	-.0121	.0990	.0093	.0006	6.22
28845	.200	2768.6	5.24	.1338	.0198	-.0187	.1350	.0075	.0002	6.76
28846	.200	2778.3	7.09	.1996	.0308	-.0279	.2019	.0059	.0006	6.49
28847	.200	2765.6	9.21	.2784	.0492	-.0397	.2827	.0040	.0013	5.66
28848	.200	2754.2	11.45	.3664	.0763	-.0530	.3742	.0020	.0010	4.80
28849	.200	2771.8	13.67	.4516	.1089	-.0634	.4646	-.0009	.0011	4.15
28850	.200	2758.2	15.86	.5395	.1490	-.0731	.5596	-.0041	.0020	3.62
28851	.201	2790.2	18.26	.6511	.2070	-.0889	.6832	-.0074	.0034	3.14
28852	.201	2790.1	20.17	.7396	.2608	-.1014	.7841	-.0102	.0043	2.84
28853	.200	2766.8	22.41	.8456	.3341	-.1149	.9091	-.0135	.0040	2.53
28854	.200	2766.6	24.69	.9485	.4166	-.1291	1.0358	-.0177	.0037	2.28
28855	.201	2797.0	27.03	1.0551	.5129	-.1447	1.1730	-.0227	.0034	2.06
28856	.200	2777.8	29.24	1.1544	.6145	-.1590	1.3075	-.0277	.0048	1.88
28857	.200	2778.9	31.31	1.2448	.7192	-.1714	1.4372	-.0325	.0060	1.73
28858	.200	2765.4	-.26	-.0105	.0113	.0026	-.0106	.0112	-.0004	-.93

TEST 46 RUN 11

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28861	.200	2759.1	-.25	-.0088	.0116	.0025	-.0089	.0115	-.0001	-.76
28862	.200	2771.3	.62	.0182	.0125	-.0008	.0183	.0123	-.0001	1.46
28863	.200	2772.1	1.10	.0304	.0127	-.0021	.0306	.0122	.0000	2.38
28864	.200	2771.6	1.92	.0484	.0133	-.0044	.0489	.0117	.0000	3.64
28865	.200	2776.8	2.76	.0730	.0146	-.0079	.0736	.0111	.0004	5.00
28866	.200	2776.5	3.77	.1027	.0168	-.0128	.1035	.0101	.0009	6.10
28867	.200	2773.6	4.90	.1333	.0204	-.0175	.1346	.0090	.0008	6.53
28868	.200	2777.2	6.96	.1941	.0298	-.0262	.1963	.0061	.0005	6.51
28869	.201	2781.1	9.10	.2642	.0461	-.0366	.2681	.0037	.0004	5.73
28870	.200	2778.1	11.46	.3516	.0727	-.0492	.3591	.0014	.0007	4.84
28871	.200	2770.7	13.46	.4303	.1021	-.0595	.4423	-.0009	.0007	4.21
28872	.200	2770.8	15.75	.5220	.1433	-.0717	.5413	-.0037	.0017	3.64
28873	.200	2769.1	18.28	.6349	.2019	-.0890	.6662	-.0075	.0028	3.15
28874	.200	2759.5	20.01	.7099	.2469	-.1007	.7516	-.0109	.0038	2.88
28875	.200	2762.6	22.63	.8323	.3313	-.1162	.8957	-.0145	.0037	2.51
28876	.201	2787.7	24.75	.9285	.4072	-.1303	1.0137	-.0189	.0041	2.28
28877	.201	2792.3	26.86	1.0225	.4915	-.1439	1.1343	-.0235	.0048	2.08
28878	.201	2789.9	29.26	1.1238	.5965	-.1586	1.2720	-.0289	.0052	1.88
28879	.200	2774.9	31.16	1.2083	.6913	-.1711	1.3917	-.0337	.0069	1.75
28880	.200	2764.1	-.23	-.0088	.0115	.0025	-.0088	.0115	-.0003	-.76

TEST 46 RUN 12

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28883	.200	2763.4	-.26	-.0108	.0114	.0026	-.0108	.0113	-.0003	-.95
28884	.200	2762.0	.40	.0117	.0125	-.0001	.0118	.0124	-.0001	.94
28885	.200	2770.1	1.37	.0366	.0127	-.0029	.0369	.0118	.0001	2.89
28886	.200	2765.8	1.80	.0432	.0129	-.0040	.0436	.0115	.0001	3.36
28887	.200	2768.7	2.81	.0733	.0144	-.0083	.0739	.0108	.0005	5.11
28888	.200	2765.6	3.66	.0960	.0161	-.0122	.0968	.0099	.0008	5.98
28889	.200	2770.3	4.91	.1319	.0200	-.0179	.1331	.0086	.0006	6.61
28890	.200	2757.9	6.92	.1926	.0297	-.0267	.1948	.0063	.0005	6.49
28891	.201	2780.5	9.26	.2759	.0485	-.0394	.2801	.0035	.0012	5.69
28892	.200	2772.5	11.54	.3597	.0746	-.0501	.3674	.0011	.0009	4.82
28893	.200	2779.6	13.60	.4394	.1048	-.0594	.4517	-.0014	.0011	4.19
28894	.200	2769.7	15.90	.5277	.1458	-.0694	.5475	-.0043	.0019	3.62
28895	.199	2747.3	17.70	.6094	.1878	-.0812	.6377	-.0064	.0029	3.25
28896	.201	2803.5	19.97	.7131	.2482	-.0966	.7550	-.0103	.0041	2.87
28897	.200	2764.7	22.78	.8291	.3322	-.1110	.8930	-.0148	.0034	2.50
28898	.200	2770.6	24.72	.9218	.4044	-.1240	1.0065	-.0182	.0037	2.28
28899	.201	2785.7	26.71	1.0243	.4905	-.1388	1.1355	-.0223	.0042	2.09
28900	.202	2818.5	28.82	1.1163	.5834	-.1513	1.2593	-.0269	.0051	1.91
28901	.201	2802.7	31.12	1.2198	.6984	-.1660	1.4052	-.0327	.0059	1.75
28902	.199	2746.9	-.27	-.0117	.0116	.0027	-.0118	.0115	-.0001	-1.01

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 46 RUN 13

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28918	.200	2774.4	-.26	-.0108	.0112	.0025	-.0108	.0112	-.0005	-.96
28919	.200	2766.8	.85	.0217	.0121	-.0012	.0218	.0117	-.0004	1.80
28920	.200	2763.5	1.14	.0283	.0123	-.0019	.0285	.0118	-.0003	2.30
28921	.200	2784.9	2.04	.0503	.0130	-.0047	.0507	.0112	-.0001	3.87
28922	.201	2794.0	2.92	.0730	.0140	-.0079	.0736	.0103	.0001	5.21
28923	.201	2796.8	3.81	.0999	.0164	-.0120	.1008	.0097	.0005	6.08
28924	.201	2788.9	4.81	.1281	.0191	-.0171	.1292	.0083	.0003	6.69
28925	.200	2781.3	6.93	.1921	.0293	-.0262	.1942	.0059	.0002	6.56
28926	.200	2774.5	9.22	.2704	.0471	-.0388	.2745	.0032	.0006	5.74
28927	.200	2765.4	11.35	.3571	.0733	-.0527	.3646	.0016	.0002	4.87
28928	.200	2772.1	13.70	.4555	.1097	-.0662	.4685	-.0013	.0006	4.15
28929	.199	2757.5	15.70	.5333	.1456	-.0766	.5528	-.0042	.0011	3.66
28930	.201	2785.4	17.99	.6384	.1991	-.0926	.6687	-.0078	.0031	3.21
28931	.200	2758.6	19.93	.7277	.2520	-.1062	.7700	-.0111	.0048	2.89
28932	.200	2775.0	22.48	.8432	.3334	-.1214	.9066	-.0144	.0037	2.53
28933	.201	2790.8	24.63	.9437	.4122	-.1362	1.0296	-.0187	.0043	2.29
28934	.201	2792.1	26.77	1.0444	.5007	-.1513	1.1580	-.0235	.0046	2.09
28935	.201	2798.7	29.06	1.1359	.5986	-.1647	1.2836	-.0286	.0053	1.90
28936	.200	2780.2	31.21	1.2292	.7048	-.1788	1.4165	-.0343	.0072	1.74
28937	.200	2779.5	-.26	-.0126	.0112	.0025	-.0126	.0112	-.0004	-1.12

TEST 46 RUN 14

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28942	.201	2790.9	-.26	-.0123	.0109	.0026	-.0124	.0109	-.0003	-1.13
28943	.201	2791.7	.74	.0215	.0123	-.0014	.0217	.0120	-.0000	1.75
28944	.201	2790.0	1.53	.0389	.0123	-.0035	.0392	.0113	-.0001	3.17
28945	.201	2801.9	1.96	.0507	.0128	-.0049	.0511	.0111	.0000	3.95
28946	.201	2790.2	3.13	.0812	.0145	-.0093	.0818	.0101	.0003	5.58
28947	.201	2791.1	3.73	.1000	.0163	-.0123	.1009	.0098	.0008	6.14
28948	.201	2795.7	4.81	.1305	.0195	-.0180	.1317	.0084	.0003	6.71
28949	.200	2775.6	7.01	.1935	.0294	-.0268	.1956	.0056	.0003	6.58
28950	.200	2767.9	9.02	.2640	.0455	-.0377	.2678	.0036	.0007	5.80
28951	.200	2777.5	11.04	.3453	.0691	-.0500	.3522	.0017	.0006	5.00
28952	.200	2772.9	13.38	.4409	.1041	-.0631	.4530	-.0007	.0012	4.23
28953	.199	2756.3	15.35	.5205	.1392	-.0745	.5388	-.0035	.0016	3.74
28954	.201	2786.5	17.29	.6058	.1815	-.0876	.6324	-.0067	.0030	3.34
28955	.200	2768.3	19.43	.7062	.2384	-.1021	.7452	-.0101	.0048	2.96
28956	.200	2774.2	21.59	.8040	.3040	-.1136	.8594	-.0131	.0045	2.64
28957	.201	2784.7	24.71	.9527	.4181	-.1339	1.0403	-.0184	.0050	2.28
28958	.200	2775.9	27.23	1.0588	.5180	-.1494	1.1785	-.0238	.0058	2.04
28959	.200	2783.3	29.09	1.1453	.6052	-.1616	1.2951	-.0280	.0061	1.89
28960	.201	2785.0	31.46	1.2409	.7196	-.1752	1.4340	-.0338	.0056	1.72
28961	.200	2782.0	-.25	-.0101	.0111	.0024	-.0102	.0110	-.0001	-.91

TEST 46 RUN 15

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
28982	.200	2763.6	-.26	-.0123	.0108	.0027	-.0123	.0108	-.0005	-1.14
28983	.200	2771.5	.61	.0185	.0121	-.0010	.0186	.0119	-.0001	1.52
28984	.200	2771.8	1.25	.0310	.0120	-.0027	.0313	.0113	-.0001	2.59
28985	.200	2773.6	2.05	.0541	.0128	-.0056	.0546	.0108	.0001	4.23
28986	.201	2786.0	2.89	.0744	.0137	-.0090	.0750	.0100	.0007	5.42
28987	.201	2790.1	3.81	.1031	.0163	-.0137	.1040	.0094	.0010	6.34
28988	.201	2791.0	4.89	.1329	.0193	-.0187	.1340	.0079	.0003	6.90
28989	.200	2781.8	7.25	.2028	.0308	-.0281	.2050	.0050	.0002	6.58
28990	.201	2786.1	9.19	.2729	.0472	-.0389	.2769	.0030	.0004	5.78
28991	.200	2772.0	11.59	.3633	.0749	-.0518	.3709	.0004	.0006	4.85
28992	.200	2782.5	13.94	.4464	.1077	-.0620	.4592	-.0031	.0015	4.15
28993	.200	2767.4	15.71	.5339	.1450	-.0740	.5532	-.0050	.0019	3.68
28994	.200	2772.1	17.95	.6335	.1963	-.0886	.6632	-.0085	.0023	3.23
28995	.201	2790.1	19.97	.7253	.2515	-.1006	.7676	-.0113	.0030	2.88
28996	.200	2769.0	22.43	.8375	.3299	-.1137	.9000	-.0146	.0041	2.54
28997	.200	2775.9	24.49	.9330	.4046	-.1262	1.0168	-.0186	.0051	2.31
28998	.200	2766.7	26.85	1.0479	.5038	-.1428	1.1624	-.0238	.0054	2.08
28999	.201	2805.1	29.02	1.1465	.6033	-.1567	1.2953	-.0285	.0058	1.90
29000	.201	2795.3	31.14	1.2398	.7094	-.1704	1.4280	-.0340	.0065	1.75
29001	.200	2782.8	-.26	-.0109	.0109	.0025	-.0110	.0108	-.0005	-1.00

TEST 46 RUN 16

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29004	.200	2772.2	-.26	-.0103	.0111	.0023	-.0104	.0111	-.0001	-.93
29005	.200	2780.1	.61	.0191	.0122	-.0011	.0192	.0120	-.0001	1.57
29006	.200	2777.6	1.22	.0322	.0122	-.0026	.0325	.0115	-.0001	2.63
29007	.200	2780.2	1.86	.0485	.0127	-.0048	.0489	.0111	.0001	3.83
29008	.200	2781.9	2.74	.0703	.0137	-.0079	.0709	.0103	.0004	5.14
29009	.201	2791.9	3.75	.0999	.0162	-.0128	.1008	.0097	.0009	6.15
29010	.201	2790.2	4.84	.1322	.0195	-.0184	.1333	.0082	.0004	6.79
29011	.200	2779.9	6.70	.1862	.0279	-.0261	.1882	.0060	.0003	6.67
29012	.201	2787.7	8.81	.2596	.0442	-.0372	.2633	.0039	.0008	5.87
29013	.200	2775.2	11.14	.3521	.0710	-.0514	.3592	.0017	.0014	4.96
29014	.200	2759.5	13.07	.4301	.0994	-.0618	.4414	-.0005	.0017	4.33
29015	.200	2761.2	15.17	.5151	.1358	-.0725	.5327	-.0038	.0018	3.79
29016	.200	2773.1	17.48	.6135	.1859	-.0868	.6410	-.0070	.0031	3.30
29017	.200	2766.7	19.69	.7232	.2479	-.1016	.7644	-.0103	.0040	2.92
29018	.200	2779.2	22.36	.8461	.3329	-.1159	.9091	-.0140	.0053	2.54
29019	.200	2762.0	24.53	.9445	.4115	-.1289	1.0301	-.0179	.0058	2.30
29020	.200	2780.5	26.38	1.0353	.4888	-.1418	1.1447	-.0220	.0059	2.12
29021	.200	2771.1	28.37	1.1207	.5754	-.1537	1.2595	-.0264	.0061	1.95
29022	.200	2782.7	30.86	1.2283	.6960	-.1695	1.4114	-.0327	.0073	1.76
29023	.201	2786.6	-.26	-.0097	.0114	.0026	-.0098	.0113	-.0002	-.86

TEST 46 RUN 17

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29026	.200	2780.0	-.26	-.0096	.0113	.0024	-.0096	.0112	-.0002	-.85
29027	.201	2783.6	.54	.0180	.0124	-.0009	.0182	.0122	-.0001	1.46
29028	.201	2786.3	1.28	.0332	.0123	-.0030	.0335	.0115	.0000	2.71
29029	.201	2796.6	2.03	.0522	.0129	-.0054	.0526	.0111	.0001	4.05
29030	.201	2794.0	2.83	.0716	.0139	-.0082	.0722	.0104	.0005	5.15
29031	.201	2791.4	3.78	.0997	.0161	-.0128	.1006	.0095	.0008	6.20
29032	.201	2785.2	4.88	.1321	.0196	-.0186	.1332	.0082	.0002	6.75
29033	.201	2783.9	6.99	.1944	.0295	-.0272	.1965	.0056	.0002	6.58
29034	.200	2770.9	9.23	.2751	.0481	-.0397	.2793	.0034	.0009	5.72
29035	.200	2758.8	11.36	.3619	.0744	-.0528	.3694	.0017	.0011	4.86
29036	.200	2757.7	13.45	.4462	.1058	-.0640	.4586	-.0009	.0014	4.22
29037	.200	2760.0	15.77	.5414	.1482	-.0761	.5613	-.0045	.0020	3.65
29038	.200	2771.3	18.30	.6524	.2071	-.0913	.6844	-.0082	.0033	3.15
29039	.200	2766.9	20.18	.7428	.2613	-.1038	.7874	-.0111	.0045	2.84
29040	.200	2768.6	22.47	.8547	.3381	-.1165	.9190	-.0143	.0058	2.53
29041	.200	2781.4	25.06	.9712	.4333	-.1319	1.0633	-.0189	.0052	2.24
29042	.200	2781.7	27.20	1.0650	.5211	-.1450	1.1854	-.0233	.0060	2.04
29043	.200	2778.4	29.41	1.1623	.6226	-.1584	1.3182	-.0283	.0066	1.87
29044	.200	2774.3	31.17	1.2417	.7126	-.1696	1.4313	-.0330	.0063	1.74
29045	.200	2770.4	-.26	-.0098	.0111	.0025	-.0099	.0111	-.0003	-.88

TEST 46 RUN 18

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29057	.200	2772.6	-.26	-.0104	.0112	.0025	-.0104	.0112	-.0002	-.93
29058	.200	2770.1	.58	.0167	.0122	-.0007	.0168	.0120	-.0001	1.37
29059	.200	2770.1	1.37	.0356	.0124	-.0030	.0359	.0116	-.0000	2.86
29060	.200	2772.0	1.95	.0511	.0131	-.0050	.0516	.0113	.0002	3.91
29061	.200	2774.5	2.92	.0754	.0142	-.0086	.0760	.0103	.0005	5.31
29062	.200	2775.0	3.83	.1026	.0164	-.0131	.1034	.0095	.0008	6.24
29063	.200	2771.0	4.97	.1351	.0200	-.0183	.1363	.0083	.0003	6.74
29064	.200	2761.7	7.00	.1953	.0299	-.0268	.1975	.0059	.0002	6.52
29065	.199	2754.6	9.06	.2642	.0452	-.0368	.2680	.0030	-.0002	5.85
29066	.199	2754.1	11.56	.3555	.0725	-.0507	.3628	-.0002	.0005	4.90
29067	.199	2751.3	13.83	.4493	.1076	-.0626	.4620	-.0029	.0013	4.18
29068	.200	2778.4	15.79	.5342	.1457	-.0744	.5537	-.0052	.0020	3.67
29069	.200	2772.0	17.86	.6233	.1923	-.0873	.6522	-.0082	.0028	3.24
29070	.201	2786.8	20.10	.7329	.2557	-.1021	.7762	-.0117	.0040	2.87
29071	.200	2775.3	22.71	.8488	.3385	-.1162	.9137	-.0154	.0045	2.51
29072	.200	2762.2	24.58	.9356	.4073	-.1274	1.0203	-.0189	.0051	2.30
29073	.200	2773.3	26.80	1.0373	.4972	-.1419	1.1501	-.0240	.0055	2.09
29074	.200	2782.0	28.83	1.1304	.5894	-.1552	1.2745	-.0289	.0060	1.92
29075	.200	2772.9	30.87	1.2155	.6868	-.1671	1.3957	-.0341	.0068	1.77
29076	.201	2788.1	-.26	-.0116	.0111	.0026	-.0117	.0111	-.0003	-1.05

TEST 46 RUN 19

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29079	.200	2773.4	-.26	-.0104	.0111	.0025	-.0104	.0111	-.0003	-.93
29080	.200	2782.7	.65	.0199	.0124	-.0011	.0201	.0122	-.0001	1.61
29081	.201	2788.2	1.25	.0333	.0123	-.0026	.0336	.0116	-.0001	2.70
29082	.201	2787.7	2.10	.0554	.0131	-.0056	.0558	.0111	.0001	4.21
29083	.201	2786.7	2.83	.0741	.0143	-.0082	.0747	.0107	.0005	5.16
29084	.201	2791.3	3.74	.1002	.0162	-.0121	.1011	.0097	.0009	6.17
29085	.201	2788.6	5.05	.1373	.0204	-.0189	.1385	.0083	.0002	6.72
29086	.200	2776.2	7.33	.2084	.0326	-.0283	.2109	.0057	.0003	6.39
29087	.200	2779.1	9.15	.2711	.0472	-.0387	.2751	.0035	.0003	5.74
29088	.200	2773.1	11.56	.3666	.0760	-.0546	.3744	.0010	.0007	4.82
29089	.200	2776.2	13.36	.4413	.1038	-.0648	.4534	-.0010	.0011	4.25
29090	.200	2759.6	15.94	.5465	.1511	-.0783	.5670	-.0048	.0020	3.62
29091	.199	2741.2	18.09	.6457	.2027	-.0924	.6768	-.0079	.0041	3.19
29092	.200	2766.2	20.29	.7310	.2578	-.1045	.7750	-.0117	.0048	2.84
29093	.200	2778.9	22.45	.8492	.3352	-.1187	.9129	-.0146	.0052	2.53
29094	.200	2776.0	25.13	.9738	.4354	-.1354	1.0666	-.0193	.0054	2.24
29095	.201	2790.3	26.70	1.0361	.4957	-.1445	1.1483	-.0226	.0054	2.09
29096	.200	2783.5	28.73	1.1337	.5894	-.1582	1.2774	-.0280	.0064	1.92
29097	.201	2785.6	31.19	1.2391	.7102	-.1735	1.4278	-.0342	.0072	1.74
29098	.201	2786.3	-.26	-.0106	.0112	.0025	-.0107	.0111	-.0003	-.95

TEST 46 RUN 20

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29110	.201	2787.8	-.26	-.0113	.0114	.0027	-.0114	.0113	-.0002	-.99
29111	.201	2790.0	.50	.0152	.0125	-.0005	.0153	.0124	-.0001	1.22
29112	.201	2796.6	1.09	.0290	.0123	-.0023	.0292	.0118	-.0000	2.36
29113	.201	2793.4	1.88	.0476	.0127	-.0048	.0480	.0112	.0001	3.74
29114	.201	2790.8	2.80	.0729	.0143	-.0083	.0736	.0107	.0004	5.11
29115	.201	2788.9	3.75	.0992	.0161	-.0122	.1000	.0096	.0006	6.15
29116	.201	2789.0	4.80	.1293	.0193	-.0182	.1305	.0084	.0004	6.72
29117	.201	2785.9	6.94	.1940	.0298	-.0267	.1962	.0061	.0005	6.52
29118	.201	2804.3	9.24	.2707	.0473	-.0389	.2748	.0032	.0004	5.73
29119	.201	2781.9	11.27	.3515	.0716	-.0507	.3587	.0015	.0001	4.91
29120	.200	2769.7	13.80	.4517	.1093	-.0637	.4647	-.0015	.0012	4.13
29121	.200	2760.8	15.76	.5352	.1465	-.0760	.5549	-.0044	.0019	3.65
29122	.200	2768.5	17.87	.6340	.1965	-.0904	.6637	-.0075	.0036	3.23
29123	.200	2755.6	19.99	.7314	.2544	-.1037	.7743	-.0110	.0046	2.88
29124	.200	2777.2	22.47	.8500	.3361	-.1179	.9140	-.0142	.0048	2.53
29125	.201	2787.5	24.85	.9572	.4226	-.1318	1.0462	-.0187	.0053	2.26
29126	.201	2792.9	26.79	1.0501	.5049	-.1444	1.1650	-.0226	.0057	2.08
29127	.200	2779.3	28.88	1.1348	.5950	-.1567	1.2811	-.0272	.0064	1.91
29128	.200	2778.3	31.15	1.2330	.7069	-.1697	1.4208	-.0329	.0063	1.74
29129	.201	2793.2	-.26	-.0105	.0113	.0026	-.0106	.0113	-.0002	-.93

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 46 RUN 21

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29144	.201	2778.6	-.25	-.0103	.0113	.0020	-.0104	.0113	-.0004	-.91
29145	.200	2776.4	.36	.0122	.0121	-.0005	.0123	.0120	-.0003	1.01
29146	.201	2779.5	.98	.0274	.0121	-.0020	.0276	.0116	-.0003	2.27
29147	.201	2778.8	1.81	.0480	.0127	-.0044	.0484	.0112	-.0000	3.78
29148	.201	2779.7	2.89	.0760	.0141	-.0082	.0766	.0103	.0005	5.39
29149	.201	2783.4	3.74	.1017	.0159	-.0120	.1025	.0093	.0009	6.38
29150	.201	2783.0	4.75	.1271	.0187	-.0154	.1283	.0081	.0009	6.80
29151	.201	2780.0	6.92	.1904	.0292	-.0236	.1925	.0061	.0003	6.51
29152	.200	2761.7	9.21	.2774	.0500	-.0368	.2818	.0050	-.0001	5.55
29153	.200	2755.6	11.40	.3617	.0766	-.0482	.3697	.0036	.0013	4.72
29154	.200	2770.5	13.85	.4552	.1126	-.0588	.4689	.0003	.0019	4.04
29155	.201	2786.9	15.82	.5334	.1489	-.0698	.5538	-.0021	.0025	3.58
29156	.200	2775.4	18.11	.6302	.2009	-.0839	.6615	-.0049	.0028	3.14
29157	.200	2773.8	19.99	.7210	.2541	-.0971	.7644	-.0077	.0029	2.84
29158	.200	2775.3	22.73	.8509	.3427	-.1160	.9172	-.0127	.0047	2.48
29159	.201	2805.3	24.43	.9218	.4020	-.1263	1.0055	-.0153	.0045	2.29
29160	.200	2770.2	26.68	1.0230	.4919	-.1412	1.1349	-.0197	.0056	2.08
29161	.201	2795.9	28.83	1.1115	.5840	-.1541	1.2554	-.0244	.0061	1.90
29162	.201	2801.6	31.26	1.2038	.6963	-.1654	1.3904	-.0294	.0057	1.73
29163	.200	2776.3	-.26	-.0095	.0114	.0018	-.0096	.0113	-.0003	-.84

TEST 46 RUN 22

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29166	.200	2769.2	-.26	-.0116	.0112	.0023	-.0116	.0111	-.0003	-1.03
29167	.200	2762.5	.25	.0068	.0122	.0000	.0068	.0122	-.0002	.56
29168	.200	2766.8	1.10	.0299	.0124	-.0022	.0301	.0118	-.0000	2.41
29169	.200	2768.4	1.78	.0445	.0125	-.0040	.0449	.0111	.0000	3.55
29170	.200	2770.1	2.83	.0749	.0142	-.0084	.0755	.0105	.0006	5.27
29171	.200	2770.2	3.94	.1060	.0169	-.0131	.1070	.0095	.0011	6.28
29172	.200	2773.6	4.82	.1286	.0190	-.0166	.1297	.0082	.0009	6.75
29173	.200	2772.9	6.90	.1915	.0296	-.0245	.1936	.0064	.0003	6.47
29174	.201	2783.6	9.03	.2674	.0469	-.0365	.2715	.0043	.0006	5.71
29175	.200	2764.3	11.51	.3632	.0766	-.0498	.3711	.0026	.0011	4.74
29176	.200	2766.1	13.61	.4369	.1055	-.0579	.4495	-.0003	.0014	4.14
29177	.200	2772.7	15.79	.5250	.1451	-.0679	.5446	-.0032	.0019	3.62
29178	.199	2751.3	17.86	.6235	.1951	-.0816	.6532	-.0055	.0026	3.20
29179	.200	2767.9	20.22	.7380	.2629	-.0970	.7834	-.0084	.0031	2.81
29180	.200	2776.2	22.42	.8344	.3308	-.1113	.8975	-.0124	.0037	2.52
29181	.200	2778.1	25.07	.9569	.4290	-.1276	1.0485	-.0170	.0054	2.23
29182	.200	2771.9	26.94	1.0417	.5060	-.1394	1.1580	-.0207	.0059	2.06
29183	.200	2770.2	29.30	1.1250	.6014	-.1507	1.2754	-.0262	.0064	1.87
29184	.200	2775.1	31.07	1.2127	.6957	-.1611	1.3977	-.0301	.0057	1.74
29185	.200	2765.4	-.26	-.0099	.0113	.0022	-.0099	.0113	-.0003	-.87

TEST 46 RUN 23

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29188	.200	2772.5	-.26	-.0102	.0115	.0019	-.0103	.0114	-.0003	-.89
29189	.200	2773.4	.35	.0094	.0123	-.0003	.0094	.0122	-.0003	.76
29190	.200	2773.7	1.16	.0297	.0124	-.0023	.0299	.0118	-.0002	2.40
29191	.200	2775.4	2.20	.0572	.0134	-.0055	.0577	.0112	.0003	4.28
29192	.200	2778.2	2.74	.0710	.0138	-.0074	.0716	.0104	.0002	5.13
29193	.201	2780.1	3.67	.0969	.0159	-.0108	.0977	.0096	.0006	6.11
29194	.201	2780.2	4.72	.1251	.0189	-.0155	.1262	.0085	.0005	6.62
29195	.201	2785.5	6.94	.1914	.0295	-.0238	.1936	.0062	-.0002	6.48
29196	.201	2791.0	9.03	.2704	.0477	-.0364	.2746	.0047	.0005	5.67
29197	.201	2785.3	11.25	.3566	.0742	-.0493	.3642	.0032	.0011	4.81
29198	.201	2779.5	13.30	.4366	.1043	-.0599	.4489	.0011	.0016	4.19
29199	.200	2768.3	15.65	.5326	.1466	-.0731	.5524	-.0025	.0024	3.63
29200	.200	2760.0	17.83	.6302	.1967	-.0881	.6602	-.0057	.0036	3.20
29201	.201	2785.0	20.09	.7424	.2626	-.1033	.7874	-.0084	.0043	2.83
29202	.200	2765.2	22.28	.8399	.3311	-.1179	.9028	-.0122	.0043	2.54
29203	.200	2766.1	24.52	.9461	.4135	-.1338	1.0324	-.0165	.0053	2.29
29204	.200	2757.7	26.99	1.0571	.5148	-.1512	1.1756	-.0211	.0058	2.05
29205	.200	2772.9	28.96	1.1425	.6032	-.1642	1.2917	-.0255	.0061	1.89
29206	.200	2762.4	30.96	1.2285	.7020	-.1754	1.4146	-.0301	.0063	1.75
29207	.200	2765.4	-.26	-.0099	.0115	.0020	-.0099	.0115	-.0002	-.86

TEST 46 RUN 24

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29210	.200	2771.2	-.26	-.0125	.0112	.0021	-.0126	.0112	-.0003	-1.11
29211	.200	2768.1	.46	.0129	.0125	-.0006	.0130	.0124	-.0002	1.04
29212	.200	2773.4	1.17	.0310	.0124	-.0026	.0313	.0117	-.0002	2.51
29213	.200	2776.7	1.88	.0496	.0128	-.0051	.0499	.0112	.0001	3.86
29214	.200	2776.7	2.65	.0765	.0143	-.0090	.0771	.0105	.0006	5.35
29215	.200	2776.8	3.90	.1057	.0167	-.0132	.1066	.0094	.0009	6.34
29216	.200	2771.6	4.80	.1302	.0194	-.0166	.1314	.0085	.0011	6.71
29217	.200	2770.6	6.94	.1936	.0298	-.0252	.1958	.0062	.0006	6.49
29218	.200	2762.4	8.99	.2709	.0481	-.0372	.2751	.0052	.0004	5.63
29219	.199	2751.3	11.54	.3626	.0771	-.0486	.3707	.0030	.0015	4.70
29220	.201	2786.6	13.55	.4381	.1059	-.0567	.4507	.0003	.0016	4.13
29221	.200	2767.5	15.65	.5220	.1435	-.0680	.5414	-.0026	.0021	3.64
29222	.200	2754.5	17.83	.6150	.1914	-.0826	.6441	-.0061	.0035	3.21
29223	.200	2759.9	20.24	.7287	.2587	-.0986	.7732	-.0093	.0044	2.82
29224	.200	2764.8	22.47	.8362	.3323	-.1133	.8997	-.0126	.0049	2.52
29225	.200	2767.8	24.44	.9277	.4042	-.1262	1.0118	-.0158	.0051	2.30
29226	.200	2767.9	26.82	1.0330	.4990	-.1409	1.1471	-.0208	.0059	2.07
29227	.202	2810.2	28.86	1.1181	.5876	-.1527	1.2629	-.0251	.0069	1.90
29228	.200	2777.1	30.71	1.1901	.6728	-.1618	1.3668	-.0293	.0068	1.77
29229	.200	2771.7	-.26	-.0112	.0115	.0021	-.0113	.0114	-.0002	-.98

TEST 46 RUN 25

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29243	.201	2794.2	-.25	-.0100	.0112	.0023	-.0100	.0112	-.0005	-.89
29244	.201	2783.8	.75	.0244	.0125	-.0018	.0245	.0122	-.0003	1.95
29245	.201	2788.0	1.17	.0315	.0125	-.0026	.0317	.0118	-.0002	2.53
29246	.201	2792.8	1.95	.0505	.0129	-.0051	.0509	.0112	-.0001	3.91
29247	.200	2775.7	2.83	.0764	.0141	-.0090	.0770	.0103	.0003	5.40
29248	.200	2773.5	3.82	.0980	.0158	-.0125	.0988	.0092	.0006	6.21
29249	.200	2770.8	4.81	.1306	.0193	-.0178	.1317	.0083	.0006	6.77
29250	.200	2769.5	7.06	.2017	.0311	-.0278	.2040	.0060	.0011	6.49
29251	.199	2748.3	9.05	.2714	.0471	-.0374	.2754	.0038	.0011	5.77
29252	.200	2778.6	11.34	.3580	.0738	-.0491	.3655	.0020	.0012	4.85
29253	.200	2769.2	13.42	.4382	.1038	-.0581	.4504	-.0007	.0010	4.22
29254	.201	2790.2	15.66	.5244	.1426	-.0674	.5434	-.0042	.0017	3.68
29255	.200	2763.2	18.01	.6312	.1976	-.0817	.6613	-.0073	.0036	3.19
29256	.200	2755.0	20.36	.7432	.2652	-.0974	.7890	-.0099	.0031	2.80
29257	.201	2796.5	22.93	.8464	.3422	-.1114	.9128	-.0147	.0037	2.47
29258	.200	2770.1	24.63	.9408	.4126	-.1234	1.0272	-.0171	.0047	2.28
29259	.201	2803.1	26.58	1.0281	.4906	-.1348	1.1389	-.0213	.0058	2.10
29260	.201	2780.4	28.64	1.1202	.5824	-.1472	1.2623	-.0258	.0066	1.92
29261	.200	2774.3	31.09	1.2148	.6957	-.1595	1.3996	-.0316	.0066	1.75
29262	.200	2776.6	-.25	-.0099	.0114	.0025	-.0100	.0114	-.0001	-.87

TEST 46 RUN 26

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29265	.200	2776.0	-.26	-.0108	.0111	.0022	-.0108	.0111	-.0003	-.97
29266	.200	2770.1	.54	.0156	.0120	-.0009	.0157	.0119	-.0002	1.29
29267	.201	2765.3	1.41	.0378	.0125	-.0034	.0381	.0115	.0000	3.03
29268	.201	2786.3	1.90	.0502	.0129	-.0049	.0506	.0113	.0002	3.88
29269	.201	2784.7	2.90	.0752	.0139	-.0084	.0758	.0100	.0003	5.43
29270	.201	2788.2	4.02	.1057	.0162	-.0128	.1066	.0088	.0005	6.51
29271	.201	2786.7	5.14	.1373	.0200	-.0183	.1386	.0076	.0004	6.87
29272	.201	2781.2	6.87	.1897	.0287	-.0253	.1918	.0057	.0004	6.62
29273	.200	2777.5	9.06	.2727	.0477	-.0381	.2768	.0041	.0001	5.72
29274	.201	2779.5	11.42	.3629	.0752	-.0511	.3706	.0019	.0009	4.83
29275	.201	2780.9	13.53	.4448	.1067	-.0619	.4575	-.0003	.0011	4.17
29276	.200	2766.1	15.67	.5348	.1462	-.0747	.5544	-.0036	.0017	3.66
29277	.200	2777.8	18.01	.6424	.2012	-.0912	.6731	-.0073	.0048	3.19
29278	.200	2771.2	19.97	.7291	.2540	-.1033	.7720	-.0103	.0053	2.87
29279	.200	2778.4	22.72	.8572	.3439	-.1197	.9235	-.0138	.0047	2.49
29280	.201	2783.7	24.71	.9557	.4204	-.1340	1.0440	-.0176	.0047	2.27
29281	.201	2793.9	26.57	1.0401	.4962	-.1465	1.1522	-.0214	.0058	2.10
29282	.201	2790.5	28.92	1.1414	.6003	-.1611	1.2894	-.0265	.0061	1.90
29283	.202	2808.5	31.25	1.2413	.7159	-.1759	1.4326	-.0321	.0072	1.73
29284	.201	2782.6	-.25	-.0113	.0110	.0022	-.0113	.0110	-.0002	-1.03

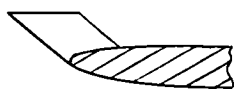
TEST 46 RUN 27

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29287	.201	2786.5	-.26	-.0108	.0110	.0022	-.0108	.0109	-.0002	-.98
29288	.201	2793.3	.65	.0193	.0122	-.0011	.0195	.0120	.0001	1.58
29289	.200	2774.4	1.18	.0302	.0122	-.0022	.0304	.0116	-.0001	2.47
29290	.201	2783.3	1.93	.0488	.0127	-.0046	.0492	.0111	.0002	3.83
29291	.201	2793.3	3.15	.0820	.0145	-.0090	.0827	.0100	.0006	5.66
29292	.201	2788.4	3.74	.0979	.0159	-.0113	.0988	.0095	.0006	6.17
29293	.201	2787.8	4.90	.1312	.0194	-.0173	.1324	.0082	.0005	6.75
29294	.201	2783.8	6.95	.1909	.0294	-.0251	.1930	.0061	.0004	6.49
29295	.200	2767.8	9.02	.2657	.0458	-.0365	.2696	.0036	.0000	5.80
29296	.201	2790.2	11.32	.3585	.0734	-.0505	.3659	.0017	.0008	4.88
29297	.200	2776.3	13.55	.4494	.1078	-.0626	.4621	-.0005	.0012	4.17
29298	.200	2755.0	15.71	.5367	.1472	-.0733	.5565	-.0036	.0021	3.65
29299	.201	2781.2	17.82	.6345	.1977	-.0861	.6646	-.0060	.0040	3.21
29300	.200	2758.2	20.32	.7528	.2684	-.1017	.7992	-.0097	.0036	2.80
29301	.200	2760.1	22.83	.8561	.3451	-.1166	.9229	-.0141	.0045	2.48
29302	.200	2770.8	24.58	.9494	.4154	-.1298	1.0361	-.0171	.0042	2.29
29303	.200	2771.2	26.81	1.0560	.5095	-.1459	1.1723	-.0215	.0045	2.07
29304	.201	2785.5	29.19	1.1663	.6210	-.1617	1.3210	-.0267	.0060	1.88
29305	.200	2773.8	31.10	1.2490	.7174	-.1712	1.4400	-.0309	.0054	1.74
29306	.201	2779.1	-.25	-.0098	.0111	.0022	-.0099	.0111	-.0003	-.88

TEST 46 RUN 28

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29309	.201	2779.9	-.26	-.0102	.0112	.0028	-.0103	.0112	-.0002	-.91
29310	.201	2785.3	.43	.0145	.0123	-.0000	.0146	.0122	-.0002	1.18
29311	.201	2792.4	1.29	.0359	.0127	-.0025	.0362	.0119	-.0000	2.84
29312	.201	2786.6	2.27	.0529	.0127	-.0048	.0534	.0106	.0001	4.15
29313	.201	2785.3	2.99	.0750	.0139	-.0077	.0756	.0099	.0003	5.41
29314	.201	2784.8	4.00	.1097	.0173	-.0132	.1107	.0096	.0006	6.35
29315	.200	2776.4	5.02	.1399	.0208	-.0185	.1412	.0084	.0003	6.74
29316	.201	2784.5	7.02	.2007	.0310	-.0267	.2029	.0063	.0002	6.47
29317	.200	2777.7	8.96	.2686	.0465	-.0373	.2725	.0041	.0004	5.78
29318	.200	2765.3	11.40	.3626	.0747	-.0513	.3703	.0016	.0009	4.85
29319	.200	2769.6	13.59	.4479	.1070	-.0631	.4605	-.0013	.0007	4.19
29320	.200	2754.1	15.67	.5353	.1453	-.0759	.5546	-.0046	.0012	3.68
29321	.200	2764.6	17.81	.6369	.1965	-.0921	.6665	-.0077	.0037	3.24
29322	.200	2758.7	19.96	.7343	.2550	-.1048	.7772	-.0111	.0041	2.88
29323	.200	2767.4	22.35	.8462	.3324	-.1192	.9090	-.0144	.0037	2.55
29324	.200	2767.5	24.53	.9436	.4104	-.1330	1.0288	-.0185	.0044	2.30
29325	.200	2763.0	26.51	1.0320	.4897	-.1460	1.1421	-.0225	.0052	2.11
29326	.200	2766.0	28.89	1.1406	.5975	-.1618	1.2873	-.0280	.0070	1.91
29327	.202	2815.5	30.98	1.2324	.7014	-.1744	1.4177	-.0329	.0074	1.76
29328	.200	2771.7	-.26	-.0087	.0116	.0027	-.0088	.0116	-.0002	-.75

VG installed above plane of wing.



TEST 46 RUN 29

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29340	.200	2762.1	-.26	-.0104	.0114	.0018	-.0105	.0113	-.0003	-.92
29341	.200	2766.8	.61	.0205	.0124	-.0014	.0206	.0122	-.0002	1.65
29342	.200	2762.8	1.27	.0369	.0129	-.0031	.0372	.0121	.0002	2.86
29343	.201	2785.3	2.15	.0593	.0134	-.0060	.0598	.0112	.0001	4.42
29344	.201	2783.3	3.13	.0768	.0139	-.0084	.0775	.0097	.0003	5.51
29345	.201	2785.6	3.84	.1055	.0167	-.0125	.1064	.0095	.0009	6.34
29346	.200	2776.3	5.17	.1415	.0212	-.0173	.1428	.0084	.0008	6.67
29347	.200	2771.4	7.13	.2033	.0325	-.0255	.2057	.0070	.0005	6.26
29348	.200	2768.0	9.22	.2780	.0506	-.0374	.2825	.0054	-.0000	5.49
29349	.200	2752.3	11.55	.3611	.0771	-.0474	.3692	.0033	.0011	4.68
29350	.200	2770.2	13.63	.4393	.1069	-.0572	.4521	.0003	.0007	4.11
29351	.200	2756.4	15.91	.5276	.1478	-.0694	.5479	-.0025	.0009	3.57
29352	.201	2779.0	18.03	.6243	.1986	-.0836	.6551	-.0044	.0017	3.14
29353	.200	2774.2	20.39	.7311	.2643	-.0994	.7774	-.0071	.0019	2.77
29354	.200	2763.1	22.50	.8258	.3310	-.1151	.8896	-.0102	.0035	2.50
29355	.201	2779.3	24.46	.9103	.3996	-.1289	.9941	-.0132	.0044	2.28
29356	.201	2790.3	26.77	1.0040	.4873	-.1433	1.1159	-.0171	.0042	2.06
29357	.200	2773.0	28.97	1.0911	.5802	-.1579	1.2356	-.0208	.0058	1.88
29358	.201	2799.2	31.37	1.1675	.6857	-.1661	1.3538	-.0223	.0023	1.70
29359	.200	2776.7	-.26	-.0088	.0118	.0018	-.0089	.0118	-.0002	-.75

TEST 46 RUN 30

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29362	.201	2789.9	-.26	-.0113	.0113	.0022	-.0113	.0112	-.0002	-1.00
29363	.201	2781.7	.53	.0166	.0124	-.0009	.0167	.0123	.0002	1.34
29364	.201	2792.1	1.15	.0274	.0121	-.0018	.0277	.0115	-.0000	2.27
29365	.200	2771.1	2.03	.0514	.0129	-.0048	.0518	.0111	.0002	3.98
29366	.201	2779.4	2.81	.0718	.0140	-.0075	.0724	.0105	.0005	5.12
29367	.201	2795.5	4.03	.1052	.0165	-.0123	.1061	.0091	.0007	6.36
29368	.201	2801.1	5.00	.1334	.0200	-.0166	.1346	.0083	.0008	6.66
29369	.201	2785.6	7.29	.2073	.0325	-.0274	.2098	.0060	.0006	6.37
29370	.201	2781.7	9.34	.2775	.0499	-.0382	.2819	.0042	.0004	5.56
29371	.201	2779.2	11.52	.3608	.0759	-.0507	.3687	.0023	.0010	4.75
29372	.200	2767.6	13.66	.4508	.1098	-.0636	.4640	.0001	.0013	4.11
29373	.200	2758.9	15.75	.5337	.1474	-.0751	.5537	-.0030	.0019	3.62
29374	.200	2756.1	18.18	.6449	.2058	-.0916	.6769	-.0056	.0034	3.13
29375	.201	2780.9	20.30	.7470	.2672	-.1063	.7933	-.0086	.0038	2.80
29376	.200	2766.1	22.77	.8558	.3456	-.1252	.9229	-.0125	.0044	2.48
29377	.200	2768.1	24.82	.9519	.4227	-.1413	1.0414	-.0160	.0052	2.25
29378	.200	2759.2	27.03	1.0507	.5130	-.1586	1.1691	-.0205	.0057	2.05
29379	.201	2793.5	29.17	1.1395	.6085	-.1746	1.2916	-.0242	.0071	1.87
29380	.200	2770.8	31.42	1.2308	.7202	-.1872	1.4258	-.0269	.0046	1.71
29381	.201	2786.6	-.24	-.0114	.0113	.0023	-.0114	.0113	-.0001	-1.00

TEST 46 RUN 31

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29393	.201	2789.9	-.26	-.0110	.0115	.0025	-.0110	.0114	-.0003	-.96
29394	.201	2796.6	.35	.0117	.0123	-.0003	.0118	.0122	-.0001	.95
29395	.201	2790.9	1.04	.0287	.0124	-.0021	.0289	.0119	-.0001	2.31
29396	.200	2776.7	1.95	.0491	.0130	-.0047	.0495	.0113	.0001	3.78
29397	.201	2783.4	2.83	.0743	.0143	-.0081	.0749	.0106	.0003	5.19
29398	.201	2782.4	4.05	.1017	.0158	-.0123	.1026	.0086	.0007	6.42
29399	.201	2785.3	4.83	.1294	.0193	-.0168	.1306	.0083	.0006	6.72
29400	.201	2783.1	7.04	.2026	.0315	-.0280	.2049	.0064	.0005	6.44
29401	.200	2774.7	9.21	.2780	.0496	-.0385	.2824	.0044	.0006	5.61
29402	.200	2765.3	11.24	.3522	.0723	-.0499	.3595	.0023	.0008	4.87
29403	.200	2771.6	13.97	.4472	.1101	-.0628	.4606	-.0011	.0002	4.06
29404	.200	2755.7	15.72	.5304	.1459	-.0743	.5501	-.0033	.0012	3.64
29405	.199	2744.1	17.64	.6194	.1910	-.0884	.6481	-.0056	.0035	3.24
29406	.200	2763.7	19.84	.7279	.2532	-.1046	.7706	-.0089	.0050	2.87
29407	.200	2775.6	22.34	.8430	.3331	-.1202	.9063	-.0123	.0051	2.53
29408	.199	2746.6	24.58	.9460	.4150	-.1366	1.0329	-.0161	.0057	2.28
29409	.201	2780.8	26.67	1.0443	.5020	-.1527	1.1585	-.0200	.0068	2.08
29410	.202	2830.4	28.95	1.1387	.6022	-.1678	1.2879	-.0241	.0081	1.89
29411	.200	2765.2	31.13	1.2286	.7089	-.1814	1.4181	-.0284	.0079	1.73
29412	.201	2784.2	-.27	-.0114	.0114	.0024	-.0115	.0113	-.0002	-1.00

TEST 46 RUN 32

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29415	.201	2784.6	-.26	-.0109	.0112	.0023	-.0110	.0111	-.0001	-.98
29416	.201	2784.5	.33	.0081	.0122	.0004	.0082	.0122	-.0003	.66
29417	.201	2793.2	1.12	.0291	.0122	-.0020	.0293	.0116	.0000	2.39
29418	.201	2789.4	1.86	.0468	.0126	-.0042	.0471	.0111	-.0002	3.71
29419	.201	2790.6	2.73	.0660	.0133	-.0071	.0666	.0101	.0002	4.98
29420	.201	2787.7	3.76	.0987	.0158	-.0116	.0995	.0093	.0007	6.23
29421	.201	2787.1	4.88	.1289	.0190	-.0169	.1300	.0079	.0003	6.79
29422	.201	2786.9	7.17	.1978	.0300	-.0259	.2000	.0050	.0001	6.60
29423	.200	2767.8	9.23	.2747	.0479	-.0383	.2788	.0033	.0003	5.73
29424	.200	2763.8	11.29	.3601	.0740	-.0510	.3676	.0021	.0006	4.86
29425	.200	2753.0	13.60	.4522	.1087	-.0639	.4651	-.0007	.0013	4.16
29426	.200	2773.9	15.59	.5329	.1447	-.0738	.5522	-.0039	.0018	3.68
29427	.200	2758.8	17.85	.6361	.1984	-.0863	.6663	-.0061	.0039	3.21
29428	.201	2778.6	20.04	.7396	.2600	-.0999	.7839	-.0092	.0036	2.84
29429	.201	2777.3	22.26	.8491	.3335	-.1162	.9121	-.0130	.0038	2.55
29430	.200	2759.5	24.50	.9490	.4135	-.1316	1.0350	-.0173	.0043	2.30
29431	.200	2776.5	26.73	1.0505	.5044	-.1469	1.1651	-.0220	.0042	2.08
29432	.201	2777.0	29.24	1.1682	.6225	-.1653	1.3234	-.0276	.0052	1.88
29433	.200	2772.1	31.14	1.2455	.7165	-.1754	1.4366	-.0308	.0041	1.74
29434	.201	2793.1	-.26	-.0099	.0109	.0026	-.0100	.0108	-.0003	-.91

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST TP	46 MACH	Q PASCALS	RUN 33 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29438	.200	2763.3	-.26	-.0099	.0109	.0021	-.0100	.0109	-.0001	-.91
29439	.201	2780.0	.41	.0127	.0124	-.0004	.0128	.0123	-.0000	1.02
29440	.201	2776.7	1.17	.0307	.0123	-.0025	.0309	.0117	-.0000	2.48
29441	.200	2770.0	1.82	.0472	.0128	-.0045	.0476	.0113	-.0001	3.69
29442	.201	2776.7	2.80	.0740	.0143	-.0080	.0746	.0107	.0004	5.18
29443	.201	2780.4	3.82	.1018	.0164	-.0121	.1026	.0096	.0007	6.21
29444	.200	2771.1	4.89	.1325	.0197	-.0172	.1337	.0084	.0005	6.71
29445	.200	2764.0	7.06	.1969	.0307	-.0257	.1992	.0062	.0001	6.42
29446	.200	2753.7	9.02	.2639	.0462	-.0364	.2679	.0042	.0004	5.71
29447	.200	2752.1	11.35	.3565	.0737	-.0513	.3641	.0021	.0008	4.84
29448	.200	2753.8	13.73	.4537	.1103	-.0643	.4669	-.0006	.0017	4.11
29449	.200	2767.3	15.56	.5268	.1434	-.0741	.5460	-.0032	.0014	3.67
29450	.200	2769.2	17.88	.6340	.1980	-.0893	.6641	-.0062	.0034	3.20
29451	.200	2759.2	20.29	.7441	.2654	-.1046	.7899	-.0092	.0051	2.80
29452	.200	2761.9	22.31	.8428	.3330	-.1193	.9061	-.0120	.0054	2.53
29453	.200	2765.8	24.34	.9331	.4051	-.1337	1.0172	-.0154	.0055	2.30
29454	.201	2785.0	26.62	1.0403	.5001	-.1499	1.1541	-.0192	.0065	2.08
29455	.200	2763.8	28.78	1.1292	.5939	-.1636	1.2757	-.0231	.0067	1.90
29456	.200	2775.8	30.89	1.2202	.6991	-.1760	1.4060	-.0265	.0066	1.75
29457	.201	2793.1	-.26	-.0087	.0111	.0022	-.0087	.0111	-.0002	-.78

TEST TP	46 MACH	Q PASCALS	RUN 34 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29471	.200	2763.6	-.28	-.0181	.0121	.0005	-.0181	.0120	-.0003	-1.49
29472	.200	2767.0	.23	.0042	.0130	-.0014	.0043	.0130	-.0002	.32
29473	.200	2766.9	.99	.0200	.0126	-.0016	.0202	.0123	-.0002	1.58
29474	.200	2768.4	1.75	.0376	.0132	-.0024	.0379	.0121	-.0001	2.84
29475	.200	2773.1	2.74	.0636	.0139	-.0039	.0642	.0109	-.0000	4.56
29476	.200	2750.1	3.71	.0884	.0154	-.0056	.0892	.0097	-.0001	5.73
29477	.200	2757.1	4.77	.1166	.0178	-.0076	.1176	.0080	.0004	6.55
29478	.200	2750.7	6.88	.1896	.0283	-.0162	.1916	.0054	.0005	6.71
29479	.200	2760.4	9.02	.2707	.0457	-.0230	.2745	.0027	.0007	5.93
29480	.200	2758.5	11.46	.3700	.0748	-.0300	.3775	-.0002	.0009	4.95
29481	.200	2752.7	13.77	.4706	.1124	-.0359	.4839	-.0028	.0012	4.19
29482	.201	2793.1	15.79	.5649	.1544	-.0397	.5856	-.0051	.0016	3.66
29483	.200	2757.8	17.94	.6668	.2078	-.0423	.6984	-.0077	.0022	3.21
29484	.200	2773.6	19.99	.7665	.2676	-.0448	.8118	-.0105	.0028	2.86
29485	.200	2763.7	22.46	.8824	.3497	-.0466	.9491	-.0139	.0022	2.52
29486	.200	2765.9	25.00	1.0078	.4503	-.0480	1.1037	-.0179	.0023	2.24
29487	.201	2790.3	26.87	1.0944	.5307	-.0484	1.2161	-.0212	.0025	2.06
29488	.201	2792.2	29.20	1.2038	.6435	-.0493	1.3647	-.0257	.0023	1.87
29489	.201	2779.5	31.34	1.3027	.7586	-.0505	1.5072	-.0297	.0031	1.72
29490	.201	2783.5	-.29	-.0157	.0124	.0003	-.0158	.0123	.0002	-1.27

2.54 cm projection.

TEST TP	46 MACH	Q PASCALS	RUN 35 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29504	.201	2786.7	-.27	-.0066	.0133	-.0048	-.0067	.0133	-.0001	-.49
29505	.201	2788.1	.40	.0198	.0143	-.0080	.0199	.0141	-.0001	1.39
29506	.201	2792.1	1.43	.0448	.0143	-.0111	.0451	.0132	-.0001	3.12
29507	.201	2778.8	1.90	.0579	.0149	-.0125	.0583	.0130	-.0000	3.87
29508	.201	2777.8	2.94	.0829	.0158	-.0153	.0836	.0115	-.0001	5.26
29509	.201	2776.9	3.93	.1100	.0179	-.0186	.1110	.0103	.0002	6.16
29510	.200	2772.6	5.17	.1417	.0208	-.0224	.1430	.0079	.0002	6.82
29511	.200	2756.2	7.23	.2104	.0319	-.0333	.2128	.0052	.0003	6.60
29512	.200	2753.9	9.16	.2823	.0480	-.0436	.2863	.0024	.0004	5.88
29513	.200	2746.5	11.55	.3799	.0767	-.0556	.3875	-.0009	.0007	4.95
29514	.201	2783.5	13.94	.4810	.1148	-.0673	.4945	-.0045	.0010	4.19
29515	.200	2757.3	15.99	.5837	.1600	-.0766	.6052	-.0070	.0021	3.65
29516	.201	2781.2	18.09	.6818	.2116	-.0841	.7138	-.0105	.0025	3.22
29517	.200	2756.0	20.36	.7949	.2803	-.0922	.8428	-.0141	.0028	2.84
29518	.200	2755.0	22.38	.8876	.3465	-.0988	.9526	-.0176	.0037	2.56
29519	.201	2783.8	24.94	1.0118	.4465	-.1061	1.1057	-.0218	.0024	2.27
29520	.201	2777.6	27.13	1.1185	.5445	-.1120	1.2437	-.0256	.0021	2.05
29521	.200	2770.6	29.49	1.2258	.6586	-.1182	1.3912	-.0301	.0010	1.86
29522	.201	2776.1	31.55	1.3201	.7703	-.1250	1.5280	-.0344	.0007	1.71
29523	.200	2747.7	-.24	-.0063	.0134	-.0048	-.0063	.0134	-.0001	-.47
29524	.200	2751.8	6.10	.1701	.0244	-.0261	.1717	.0062	.0006	6.97

1.27cm projection.

TEST TP	47 MACH	Q PASCALS	RUN 1 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29562	.199	2756.0	-.33	-.0312	.0108	.0183	-.0313	.0106	.0007	-2.89
29563	.200	2770.9	.72	.0224	.0110	.0124	.0225	.0107	.0012	2.03
29564	.200	2772.0	1.23	.0382	.0110	.0107	.0385	.0102	.0011	3.47
29565	.200	2775.1	2.25	.0820	.0118	.0060	.0824	.0086	.0012	6.96
29566	.200	2775.0	3.51	.1315	.0139	.0005	.1321	.0058	.0014	9.46
29567	.200	2775.8	4.20	.1599	.0157	-.0027	.1606	.0039	.0015	10.22
29568	.200	2773.8	5.54	.2109	.0203	-.0082	.2119	-.0002	.0017	10.39
29569	.200	2770.8	6.11	.2350	.0230	-.0114	.2361	-.0021	.0017	10.21
29570	.200	2771.7	7.74	.3124	.0360	-.0218	.3144	-.0064	.0029	8.67
29571	.200	2766.8	10.03	.4169	.0669	-.0327	.4241	-.0071	.0024	6.26
29572	.199	2753.4	12.34	.5410	.1144	-.0437	.5529	-.0039	.0017	4.73
29573	.200	2790.2	14.81	.6637	.1721	-.0551	.6856	-.0033	.0042	3.86
29574	.200	2789.1	16.64	.7460	.2195	-.0612	.7776	-.0032	.0021	3.40
29575	.201	2805.5	19.28	.8707	.3026	-.0758	.9218	-.0019	.0034	2.88
29576	.199	2755.4	21.81	.9822	.3901	-.0924	1.0569	-.0027	.0041	2.52
29577	.200	2784.0	23.66	1.0431	.4550	-.1017	1.1381	-.0018	.0028	2.29
29578	.201	2806.9	26.05	1.1285	.5514	-.1156	1.2560	-.0003	.0024	2.05
29579	.200	2780.9	-.33	-.0284	.0108	.0186	-.0284	.0107	.0009	-2.62

Housing down.

TEST TP	47 MACH	Q PASCALS	RUN 2 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29595	.200	2790.9	-.34	-.0294	.0093	.0172	-.0295	.0091	.0003	-3.18
29596	.200	2791.9	.75	.0268	.0096	.0109	.0269	.0093	.0005	2.79
29597	.200	2795.2	1.53	.0584	.0100	.0075	.0587	.0084	.0005	5.83
29598	.200	2794.4	2.09	.0794	.0104	.0049	.0798	.0075	.0005	7.62
29599	.200	2792.9	3.03	.1167	.0117	.0008	.1171	.0055	.0008	10.00
29600	.200	2791.9	4.06	.1578	.0135	-.0037	.1583	.0023	.0007	11.66
29601	.200	2786.4	5.57	.2164	.0175	-.0105	.2171	-.0036	.0009	12.36
29602	.200	2785.5	7.50	.3019	.0283	-.0234	.3030	-.0114	.0014	10.68
29603	.199	2767.1	9.85	.4254	.0654	-.0388	.4304	-.0084	.0002	6.51
29604	.199	2756.1	12.29	.5640	.1183	-.0514	.5762	-.0045	.0010	4.77
29605	.198	2744.9	14.78	.6723	.1754	-.0574	.6948	-.0020	.0018	3.83
29606	.202	2831.2	16.80	.7714	.2303	-.0677	.8051	-.0025	.0023	3.35
29607	.198	2733.2	19.24	.8858	.3067	-.0801	.9374	-.0024	.0021	2.89
29608	.198	2730.4	21.57	.9855	.3872	-.0924	1.0588	-.0022	.0008	2.55
29609	.201	2820.4	23.88	1.0696	.4717	-.1045	1.1690	-.0017	.0001	2.27
29610	.200	2778.0	26.53	1.1366	.5652	-.1163	1.2694	-.0019	.0009	2.01
29611	.204	2887.4	-.33	-.0268	.0090	.0174	-.0269	.0089	.0002	-2.97

Housing down.

TEST TP	47 MACH	Q PASCALS	RUN 3 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29625	.200	2795.2	-.34	-.0289	.0098	.0178	-.0289	.0096	.0002	-2.95
29626	.201	2807.0	.73	.0246	.0100	.0120	.0247	.0097	.0005	2.45
29627	.201	2808.5	1.06	.0364	.0102	.0103	.0386	.0095	.0004	3.76
29628	.201	2805.1	2.23	.0844	.0111	.0052	.0848	.0078	.0006	7.64
29629	.201	2806.5	3.38	.1295	.0128	.0001	.1300	.0051	.0005	10.12
29630	.201	2801.5	3.98	.1536	.0141	-.0026	.1543	.0034	.0007	10.91
29631	.201	2800.9	5.24	.2029	.0178	-.0083	.2037	-.0008	.0007	11.41
29632	.200	2790.2	7.33	.2918	.0289	-.0200	.2931	-.0086	.0014	10.10
29633	.200	2783.8	9.51	.3943	.0537	-.0338	.3978	-.0122	.0013	7.34
29634	.200	2773.2	12.01	.5126	.0971	-.0445	.5216	-.0117	.0002	5.28
29635	.199	2747.6	14.82	.6683	.1659	-.0620	.6885	-.0106	.0009	4.03
29636	.202	2836.6	16.72	.7543	.2178	-.0661	.7851	-.0085	.0025	3.46
29637	.199	2754.0	19.11	.8622	.2924	-.0784	.9104	-.0059	.0016	2.95
29638	.201	2816.9	21.55	.9691	.3759	-.0923	1.0394	-.0063	.0014	2.58
29639	.200	2775.3	24.03	1.0597	.4640	-.1045	1.1568	-.0076	.0018	2.28
29640	.199	2763.8	26.22	1.1286	.5487	-.1172	1.2549	-.0063	-.0006	2.06
29641	.201	2805.1	-.34	-.0290	.0096	.0180	-.0291	.0094	.0003	-3.03

Housing down.

TEST TP	47 MACH	Q PASCALS	RUN 4 ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29658	.201	2799.7	-.35	.0009	.0095	-.0135	.0008	.0095	-.0001	.09
29659	.201	2808.4	.57	.0436	.0099	-.0181	.0437	.0095	.0001	4.41
29660	.201	2804.8	1.13	.0689	.0103	-.0208	.0690	.0090	-.0001	6.66
29661	.201	2808.4	2.07	.1062	.0114	-.0250	.1065	.0075	-.0001	9.34
29662	.201	2808.4	3.26	.1470	.0132	-.0294	.1475	.0049	.0003	11.11
29663	.201	2802.6	4.00	.1856	.0153	-.0337	.1862	.0023	.0002	12.12
29664	.201	2803.0	5.37	.2312	.0194	-.0389	.2320	-.0023	-.0000	11.90
29665	.200	2793.1	7.77	.3399	.0321	-.0544	.3411	-.0141	.0002	10.58
29666	.200	2782.8	9.68	.4278	.0523	-.0678	.4305	-.0204	-.0003	8.19
29667	.200	2784.0	12.05	.5380	.0892	-.0805	.5448	-.0251	.0009	6.03
29668	.199	2765.7	14.46	.6628	.1424	-.0950	.6774	-.0276	.0008	4.66
29669	.198	2742.3	16.52	.7760	.1984	-.1085	.8004	-.0304	.0010	3.91
29670	.201	2814.7	19.11	.8764	.2722	-.1087	.9172	-.0297	-.0011	3.22
29671	.199	2769.8	21.50	.9867	.3540	-.1250	1.0478	-.0323	.0032	2.79
29672	.200	2782.1	23.69	1.0777	.4335	-.1366	1.1611	-.0360	.0053	2.49
29673	.198	2742.2	26.34	1.1781	.5377	-.1504	1.2944	-.0408	.0029	2.19
29674	.199	2746.2	28.39	1.2212	.6123	-.1543	1.3655	-.0419	.0020	1.99
29675	.202	2838.9	-.34	.0051	.0095	-.0138	.0051	.0095	.0007	.54

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 47 RUN 5

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29678	.200	2783.8	-.34	.0049	.0094	-.0138	.0048	.0095	.0001	.52
29679	.200	2788.6	.52	.0427	.0097	-.0179	.0428	.0093	.0000	4.40
29680	.200	2795.2	1.03	.0678	.0103	-.0206	.0680	.0090	-.0001	6.61
29681	.200	2790.6	2.23	.1118	.0114	-.0254	.1122	.0070	-.0001	9.81
29682	.200	2788.6	3.08	.1409	.0127	-.0288	.1414	.0051	.0000	11.10
29683	.200	2785.3	4.19	.1941	.0155	-.0345	.1947	.0013	.0003	12.54
29684	.200	2784.8	5.55	.2474	.0199	-.0411	.2482	-.0041	.0004	12.43
29685	.199	2769.7	7.33	.3206	.0286	-.0514	.3216	-.0126	-.0001	11.22
29686	.199	2760.7	9.79	.4372	.0534	-.0700	.4399	-.0217	-.0002	8.19
29687	.200	2787.4	11.94	.5411	.0901	-.0806	.5480	-.0238	.0004	6.01
29688	.200	2784.6	14.15	.6539	.1401	-.0905	.6683	-.0239	.0007	4.67
29689	.199	2771.5	16.36	.7637	.1979	-.1014	.7885	-.0252	.0016	3.86
29690	.199	2746.7	19.19	.8919	.2813	-.1134	.9348	-.0274	.0013	3.17
29691	.200	2774.3	21.59	1.0000	.3632	-.1272	1.0635	-.0302	.0015	2.75
29692	.199	2758.6	23.75	1.1023	.4479	-.1416	1.1894	-.0339	.0016	2.46
29693	.200	2796.3	26.12	1.2042	.5479	-.1550	1.3224	-.0383	.0004	2.20
29694	.200	2791.9	-.35	.0051	.0094	-.0138	.0050	.0094	.0000	.54

TEST 47 RUN 6

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29702	.200	2787.4	-.32	.0072	.0094	-.0141	.0072	.0095	-.0000	.77
29703	.200	2795.2	.73	.0512	.0098	-.0189	.0513	.0091	.0004	5.23
29704	.200	2796.0	.97	.0655	.0101	-.0202	.0656	.0090	.0000	6.45
29705	.201	2798.3	2.20	.1059	.0112	-.0246	.1063	.0071	.0001	9.44
29706	.201	2800.6	3.13	.1500	.0130	-.0297	.1505	.0048	.0003	11.54
29707	.201	2821.6	4.25	.1972	.0158	-.0349	.1978	.0011	.0000	12.49
29708	.200	2785.3	5.12	.2302	.0185	-.0388	.2309	-.0022	.0002	12.46
29709	.200	2792.1	7.51	.3325	.0300	-.0533	.3336	-.0137	-.0002	11.09
29710	.201	2816.4	9.53	.4303	.0518	-.0696	.4330	-.0202	-.0005	8.31
29711	.201	2807.4	11.93	.5491	.0939	-.0836	.5566	-.0216	.0023	5.84
29712	.200	2797.6	14.09	.6607	.1406	-.0966	.6750	-.0244	.0025	4.70
29713	.200	2771.2	16.84	.8069	.2155	-.1111	.8347	-.0275	-.0043	3.74
29714	.200	2779.6	18.97	.8791	.2734	-.1097	.9202	-.0272	-.0040	3.22
29715	.200	2783.2	21.54	.9896	.3593	-.1234	1.0524	-.0291	.0015	2.75
29716	.199	2759.0	23.83	1.0801	.4399	-.1350	1.1658	-.0339	.0030	2.46
29717	.200	2782.1	26.03	1.1563	.5230	-.1458	1.2685	-.0374	.0038	2.21
29718	.201	2823.8	-.36	.0037	.0094	-.0134	.0036	.0094	.0001	.39

TEST 47 RUN 7

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29721	.200	2793.0	-.35	.0010	.0091	-.0133	.0010	.0091	.0003	.11
29722	.200	2795.2	.54	.0413	.0096	-.0177	.0414	.0092	.0000	4.32
29723	.200	2793.2	1.00	.0673	.0101	-.0205	.0675	.0089	-.0001	6.69
29724	.200	2789.8	2.12	.1056	.0109	-.0249	.1059	.0070	.0001	9.68
29725	.200	2791.0	3.20	.1431	.0126	-.0294	.1436	.0046	.0002	11.35
29726	.200	2795.1	4.60	.2019	.0161	-.0358	.2025	-.0002	.0002	12.57
29727	.200	2788.2	5.25	.2325	.0182	-.0393	.2332	-.0031	.0003	12.76
29728	.200	2772.1	7.47	.3256	.0282	-.0523	.3265	-.0143	-.0003	11.53
29729	.199	2767.4	9.88	.4457	.0562	-.0724	.4487	-.0211	.0003	7.93
29730	.200	2794.7	12.04	.5571	.0969	-.0856	.5651	-.0214	.0035	5.75
29731	.199	2757.8	14.49	.6855	.1537	-.0980	.7022	-.0228	-.0007	4.46
29732	.199	2765.8	16.97	.7840	.2169	-.0989	.8132	-.0214	.0019	3.61
29733	.199	2745.2	19.29	.9013	.2900	-.1123	.9465	-.0241	.0014	3.11
29734	.198	2741.0	21.39	1.0055	.3644	-.1250	1.0691	-.0273	.0003	2.76
29735	.199	2757.6	24.14	1.1080	.4636	-.1382	1.2007	-.0299	.0009	2.39
29736	.199	2756.1	26.39	1.1895	.5534	-.1486	1.3115	-.0331	.0021	2.15
29737	.200	2784.1	-.34	.0057	.0091	-.0137	.0056	.0092	.0004	.62

TEST 47 RUN 8

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29764	.200	2789.6	-.37	-.0222	.0110	-.0036	-.0223	.0108	.0005	-2.03
29765	.200	2787.4	.89	.0310	.0112	-.0096	.0312	.0107	.0003	2.77
29766	.200	2791.9	1.26	.0510	.0114	-.0117	.0512	.0103	.0004	4.45
29767	.200	2789.2	1.99	.0841	.0121	-.0160	.0845	.0092	.0005	6.94
29768	.200	2789.9	2.98	.1236	.0133	-.0204	.1241	.0068	.0004	9.31
29769	.200	2787.9	3.97	.1631	.0152	-.0251	.1637	.0038	.0007	10.75
29770	.200	2785.2	5.34	.2149	.0186	-.0310	.2157	-.0015	.0006	11.55
29771	.200	2777.7	7.48	.3049	.0275	-.0435	.3059	-.0124	.0005	11.07
29772	.199	2768.2	9.80	.4189	.0524	-.0624	.4217	-.0197	.0002	7.99
29773	.199	2756.1	12.15	.5431	.0956	-.0788	.5511	-.0208	.0038	5.68
29774	.203	2863.4	14.55	.6600	.1482	-.0884	.6760	-.0223	-.0008	4.45
29775	.200	2786.2	16.92	.7639	.2109	-.0914	.7922	-.0206	.0025	3.62
29776	.199	2762.1	19.12	.8763	.2791	-.1045	.9194	-.0233	.0008	3.14
29777	.200	2774.7	21.67	.9807	.3605	-.1191	1.0445	-.0271	.0012	2.72
29778	.199	2745.3	24.05	1.0993	.4577	-.1337	1.1903	-.0301	.0003	2.40
29779	.202	2845.8	26.29	1.1690	.5429	-.1419	1.2885	-.0310	.0011	2.15
29780	.201	2809.6	-.37	-.0216	.0108	-.0032	-.0217	.0106	.0002	-2.01

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 47 RUN 9

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29794	.200	2788.6	-.31	-.0054	.0107	.0072	-.0054	.0107	.0005	-.50
29795	.200	2795.2	.71	.0439	.0113	.0015	.0441	.0107	.0006	3.89
29796	.200	2794.7	1.41	.0735	.0119	-.0019	.0737	.0100	.0007	6.20
29797	.200	2793.9	2.60	.1232	.0135	-.0078	.1237	.0079	.0009	9.11
29798	.200	2792.2	3.12	.1443	.0145	-.0102	.1448	.0066	.0008	9.94
29799	.200	2792.2	4.57	.2009	.0181	-.0167	.2017	.0021	.0011	11.08
29800	.201	2802.2	5.37	.2318	.0206	-.0204	.2327	-.0011	.0010	11.23
29801	.200	2792.5	7.80	.3458	.0384	-.0367	.3478	-.0089	.0016	9.00
29802	.200	2789.6	9.95	.4512	.0710	-.0494	.4567	-.0080	.0007	6.35
29803	.201	2808.1	12.24	.5893	.1229	-.0672	.6020	-.0048	-.0007	4.79
29804	.199	2751.6	14.64	.6907	.1803	-.0660	.7139	-.0001	.0020	3.83
29805	.202	2837.9	17.26	.8317	.2590	-.0830	.8711	.0005	.0024	3.21
29806	.200	2793.6	19.48	.9286	.3295	-.0933	.9853	.0009	.0015	2.82
29807	.201	2813.4	21.70	.9961	.3978	-.1017	1.0726	.0014	.0013	2.50
29808	.200	2788.0	24.01	1.0936	.4895	-.1157	1.1981	.0022	.0007	2.23
29809	.199	2767.3	26.42	1.1708	.5846	-.1291	1.3086	.0027	.0013	2.00
29810	.201	2803.1	-.30	-.0015	.0106	.0069	-.0015	.0106	.0004	-.14

Housing down.

TEST 47 RUN 10

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29824	.198	2720.4	-.37	-.0247	.0111	-.0030	-.0248	.0109	.0002	-2.23
29825	.199	2763.3	.56	.0234	.0113	-.0084	.0235	.0111	.0001	2.08
29826	.199	2765.4	2.93	.1195	.0132	-.0196	.1200	.0071	.0001	9.02
29827	.199	2750.3	7.48	.3033	.0280	-.0430	.3044	-.0118	.0000	10.84
29828	.199	2741.5	9.80	.4216	.0535	-.0638	.4245	-.0190	-.0001	7.88
29829	.199	2767.1	11.22	.5003	.0792	-.0747	.5062	-.0196	.0037	6.31
29830	.199	2767.9	12.32	.5372	.0976	-.0766	.5457	-.0192	.0028	5.50
29831	.200	2776.5	13.59	.6225	.1290	-.0879	.6354	-.0209	.0029	4.83
29832	.200	2776.3	14.49	.6670	.1505	-.0902	.6835	-.0211	-.0005	4.43
29833	.200	2782.1	15.50	.7268	.1791	-.0981	.7482	-.0216	-.0031	4.06
29834	.200	2769.5	16.56	.7514	.2015	-.0921	.7777	-.0211	.0012	3.73
29835	.199	2763.2	17.62	.8003	.2342	-.0947	.8336	-.0219	.0014	3.42
29836	.199	2762.9	19.14	.8669	.2764	-.1032	.9096	-.0231	.0039	3.14
29837	.199	2762.0	20.54	.9304	.3213	-.1127	.9840	-.0255	.0013	2.90
29838	.198	2731.8	23.91	1.0926	.4520	-.1330	1.1821	-.0296	.0015	2.42
29839	.200	2778.9	26.03	1.1712	.5357	-.1438	1.2875	-.0325	.0007	2.19
29840	.202	2843.4	-.37	-.0207	.0110	-.0033	-.0208	.0108	.0005	-1.89

TEST 47 RUN 11

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29843	.200	2787.2	-.37	-.0224	.0111	-.0033	-.0224	.0110	.0004	-2.01
29844	.200	2789.6	.76	.0288	.0113	-.0091	.0290	.0109	.0003	2.55
29845	.200	2792.7	3.04	.1240	.0135	-.0200	.1245	.0069	.0003	9.19
29846	.200	2786.0	7.53	.3092	.0292	-.0443	.3104	-.0116	.0000	10.60
29847	.200	2786.1	9.68	.4164	.0529	-.0620	.4194	-.0179	-.0000	7.87
29848	.200	2789.3	10.72	.4717	.0700	-.0700	.4764	-.0190	.0022	6.74
29849	.201	2800.7	12.33	.5501	.0995	-.0785	.5587	-.0203	.0028	5.53
29850	.200	2788.3	13.11	.5917	.1158	-.0840	.6026	-.0215	.0020	5.11
29851	.200	2779.3	14.25	.6544	.1425	-.0923	.6694	-.0230	.0030	4.59
29852	.200	2768.9	15.42	.7125	.1721	-.0964	.7326	-.0236	.0009	4.14
29853	.200	2784.7	16.89	.7804	.2111	-.1003	.8081	-.0247	-.0051	3.70
29854	.200	2770.8	17.88	.8241	.2392	-.1027	.8577	-.0253	-.0065	3.44
29855	.199	2765.1	19.03	.8659	.2717	-.1024	.9071	-.0255	-.0007	3.19
29856	.199	2761.0	20.35	.9175	.3125	-.1085	.9689	-.0261	.0040	2.94
29857	.198	2731.6	23.87	1.0588	.4343	-.1266	1.1440	-.0312	.0036	2.44
29858	.200	2783.0	25.78	1.1451	.5148	-.1388	1.2550	-.0344	.0038	2.22
29859	.199	2744.9	-.37	-.0233	.0112	-.0031	-.0233	.0111	.0002	-2.07

TEST 47 RUN 12

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29862	.200	2771.9	-.37	-.0218	.0112	-.0036	-.0219	.0111	.0006	-1.94
29863	.200	2775.5	.64	.0302	.0115	-.0090	.0303	.0112	.0000	2.63
29864	.200	2779.0	3.24	.1341	.0142	-.0211	.1346	.0066	.0002	9.45
29865	.199	2762.9	7.69	.3186	.0311	-.0452	.3199	-.0118	.0005	10.25
29866	.199	2753.9	9.57	.4058	.0506	-.0588	.4086	-.0175	-.0002	8.02
29867	.199	2749.7	11.07	.4800	.0728	-.0687	.4850	-.0207	.0016	6.60
29868	.201	2805.1	12.31	.5380	.0948	-.0737	.5459	-.0221	.0024	5.67
29869	.200	2774.9	13.05	.5753	.1097	-.0785	.5852	-.0230	.0021	5.24
29870	.200	2777.4	14.39	.6482	.1410	-.0883	.6629	-.0245	.0024	4.60
29871	.200	2775.3	15.45	.7015	.1678	-.0933	.7208	-.0252	.0007	4.18
29872	.199	2762.7	16.79	.7746	.2063	-.0997	.8012	-.0263	-.0013	3.75
29873	.199	2759.5	17.80	.8199	.2348	-.1025	.8524	-.0271	-.0027	3.49
29874	.199	2767.6	19.00	.8652	.2688	-.1046	.9055	-.0275	-.0005	3.22
29875	.200	2787.4	20.04	.9061	.3010	-.1079	.9544	-.0278	.0030	3.01
29876	.199	2743.4	23.93	1.0733	.4397	-.1300	1.1594	-.0334	.0050	2.44
29877	.199	2748.5	26.04	1.1621	.5271	-.1430	1.2755	-.0366	.0044	2.20
29878	.199	2764.7	-.37	-.0214	.0112	-.0034	-.0215	.0110	.0002	-1.91

TEST 47 RUN 13

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29892	.200	2768.4	-.37	-.0170	.0111	-.0063	-.0171	.0110	.0006	-1.54
29893	.201	2781.6	.88	.0377	.0113	-.0121	.0379	.0107	.0005	3.33
29894	.200	2772.5	3.12	.1340	.0138	-.0235	.1345	.0064	.0008	9.74
29895	.201	2775.3	7.58	.3178	.0300	-.0472	.3190	-.0122	.0007	10.60
29896	.200	2769.2	9.63	.4156	.0506	-.0622	.4182	-.0197	.0004	8.22
29897	.200	2763.6	10.76	.4717	.0666	-.0707	.4759	-.0226	.0021	7.08
29898	.200	2763.6	12.01	.5257	.0858	-.0771	.5320	-.0255	.0022	6.13
29899	.200	2751.0	13.13	.5833	.1076	-.0838	.5925	-.0277	.0019	5.42
29900	.199	2739.0	14.38	.6545	.1388	-.0928	.6685	-.0281	.0022	4.72
29901	.201	2790.0	15.71	.7224	.1747	-.0974	.7427	-.0274	.0001	4.14
29902	.202	2806.1	17.03	.7848	.2123	-.0978	.8126	-.0270	.0017	3.70
29903	.201	2792.5	18.24	.8436	.2474	-.1048	.8786	-.0291	-.0009	3.41
29904	.200	2765.2	19.28	.8899	.2802	-.1079	.9325	-.0294	-.0003	3.18
29905	.200	2762.1	20.47	.9330	.3160	-.1117	.9846	-.0303	.0020	2.95
29906	.200	2751.1	23.55	1.0770	.4331	-.1312	1.1604	-.0333	.0033	2.49
29907	.198	2695.7	26.10	1.2225	.6104	-.1515	1.3659	-.0374	.0002	2.00
29908	.201	2781.6	-.36	-.0156	.0111	-.0063	-.0157	.0110	.0007	-1.41

TEST 47 RUN 14

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29912	.199	2737.3	-.36	-.0159	.0112	-.0065	-.0159	.0111	.0005	-1.42
29913	.200	2756.2	.70	.0352	.0114	-.0123	.0354	.0110	.0007	3.09
29914	.200	2755.7	3.10	.1351	.0138	-.0237	.1357	.0064	.0006	9.81
29915	.199	2733.4	7.57	.3183	.0298	-.0472	.3195	-.0124	.0007	10.70
29916	.202	2816.9	10.05	.4388	.0570	-.0672	.4420	-.0205	.0005	7.70
29917	.200	2759.9	11.11	.4759	.0709	-.0717	.4806	-.0221	.0016	6.71
29918	.200	2767.2	12.10	.5365	.0909	-.0774	.5436	-.0235	.0019	5.90
29919	.200	2759.8	13.42	.6131	.1216	-.0863	.6246	-.0240	.0010	5.04
29920	.200	2759.9	14.50	.6759	.1496	-.0935	.6919	-.0244	.0003	4.52
29921	.200	2768.3	15.56	.7214	.1761	-.0957	.7421	-.0238	.0007	4.10
29922	.200	2771.5	17.01	.7908	.2165	-.1027	.8196	-.0243	.0024	3.65
29923	.200	2756.5	18.24	.8248	.2452	-.1040	.8601	-.0253	.0024	3.36
29924	.199	2747.9	19.34	.8885	.2839	-.1112	.9324	-.0263	.0029	3.13
29925	.199	2725.8	20.40	.9263	.3143	-.1164	.9778	-.0282	.0025	2.95
29926	.200	2771.2	23.98	1.1101	.4577	-.1394	1.2003	-.0330	.0019	2.43
29927	.200	2769.0	26.24	1.2680	.6368	-.1617	1.4184	-.0391	.0001	1.99
29928	.200	2770.9	-.36	-.0129	.0111	-.0066	-.0129	.0110	.0005	-1.16

TEST 47 RUN 15

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29931	.199	2737.3	-.37	-.0160	.0110	-.0063	-.0160	.0109	.0004	-1.45
29932	.200	2755.0	.87	.0430	.0112	-.0131	.0431	.0106	.0005	3.82
29933	.200	2761.4	3.21	.1376	.0139	-.0243	.1381	.0061	.0007	9.93
29934	.199	2746.7	7.70	.3223	.0299	-.0479	.3234	-.0135	.0010	10.76
29935	.199	2739.4	10.02	.4288	.0536	-.0638	.4315	-.0218	.0016	8.00
29936	.200	2768.4	11.03	.4846	.0703	-.0728	.4891	-.0237	.0028	6.90
29937	.200	2763.5	12.39	.5540	.0962	-.0800	.5618	-.0249	.0015	5.76
29938	.200	2753.5	13.63	.6184	.1244	-.0864	.6303	-.0249	.0020	4.97
29939	.200	2762.5	14.43	.6702	.1466	-.0924	.6856	-.0250	.0003	4.57
29940	.200	2764.2	16.04	.7398	.1881	-.0964	.7630	-.0236	.0029	3.93
29941	.200	2751.7	16.83	.7772	.2104	-.1001	.8048	-.0236	.0027	3.69
29942	.200	2748.4	17.72	.8183	.2354	-.1032	.8511	-.0248	.0024	3.48
29943	.199	2747.1	19.17	.8943	.2835	-.1112	.9378	-.0259	.0015	3.15
29944	.199	2747.3	20.50	.9360	.3206	-.1156	.9890	-.0275	.0001	2.92
29945	.200	2751.2	23.93	1.1081	.4563	-.1384	1.1979	-.0325	.0013	2.43
29946	.200	2756.0	28.10	1.2589	.6303	-.1579	1.4074	-.0370	-.0001	2.00
29947	.199	2744.1	-.36	-.0170	.0109	-.0059	-.0170	.0107	.0004	-1.56

TEST 47 RUN 16

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29950	.201	2776.0	-.36	-.0158	.0108	-.0064	-.0158	.0107	.0008	-1.46
29951	.201	2781.6	.71	.0353	.0111	-.0120	.0355	.0107	.0004	3.17
29952	.201	2785.7	3.07	.1337	.0134	-.0235	.1342	.0062	.0008	9.96
29953	.200	2773.6	7.82	.3300	.0309	-.0499	.3311	-.0143	.0006	10.68
29954	.200	2757.3	9.99	.4344	.0554	-.0659	.4374	-.0209	.0009	7.85
29955	.200	2755.7	11.26	.5056	.0774	-.0780	.5110	-.0228	.0047	6.53
29956	.199	2746.3	12.39	.5619	.0985	-.0838	.5700	-.0244	.0026	5.70
29957	.200	2755.0	13.63	.6267	.1248	-.0930	.6385	-.0264	.0021	5.02
29958	.199	2740.7	14.73	.6897	.1531	-.1009	.7060	-.0273	.0021	4.51
29959	.200	2755.9	15.99	.7596	.1894	-.1066	.7823	-.0272	.0009	4.01
29960	.201	2778.4	17.13	.8069	.2213	-.1044	.8382	-.0268	.0026	3.65
29961	.201	2779.6	18.18	.8487	.2502	-.1075	.8844	-.0270	-.0039	3.39
29962	.201	2786.2	19.42	.8960	.2869	-.1060	.9404	-.0273	-.0028	3.12
29963	.201	2782.5	20.39	.9296	.3159	-.1080	.9815	-.0277	-.0004	2.94
29964	.199	2741.7	23.89	1.0826	.4462	-.1305	1.1705	-.0305	.0025	2.43
29965	.201	2778.4	28.41	1.2149	.6178	-.1498	1.3625	-.0346	.0015	1.97
29966	.201	2776.8	-.36	-.0161	.0108	-.0060	-.0161	.0107	.0004	-1.49

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 47 RUN 17

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29969	.101	715.3	-.33	-.0142	.0121	-.0060	-.0143	.0120	.0005	-1.17
29970	.101	715.3	.87	.0389	.0132	-.0117	.0391	.0126	.0004	2.94
29971	.100	711.9	2.90	.1207	.0151	-.0208	.1213	.0090	.0002	7.97
29972	.101	715.4	7.44	.3115	.0344	-.0468	.3134	-.0063	.0009	9.07
29973	.100	709.5	9.61	.4065	.0569	-.0591	.4103	-.0118	.0011	7.15
29974	.100	709.0	10.43	.4616	.0723	-.0679	.4671	-.0125	.0015	6.39
29975	.101	712.5	11.81	.5296	.0963	-.0747	.5381	-.0142	.0008	5.50
29976	.101	719.4	12.82	.5849	.1176	-.0807	.5964	-.0151	.0007	4.97
29977	.100	709.6	14.07	.6619	.1499	-.0907	.6785	-.0156	.0035	4.42
29978	.101	716.6	15.18	.7126	.1750	-.0959	.7336	-.0177	.0045	4.07
29979	.101	715.5	16.29	.7439	.1996	-.0896	.7700	-.0170	-.0006	3.73
29980	.100	710.4	17.15	.7644	.2226	-.0926	.8151	-.0186	-.0001	3.52
29981	.101	715.2	18.39	.8486	.2602	-.1021	.8874	-.0208	-.0001	3.26
29982	.101	717.8	19.56	.9090	.2977	-.1090	.9562	-.0238	.0002	3.05
29983	.100	712.0	22.58	1.0316	.3953	-.1231	1.1043	-.0312	.0001	2.61
29984	.100	710.4	27.00	1.1948	.5628	-.1467	1.3201	-.0409	-.0001	2.12
29985	.101	718.6	-.32	-.0100	.0118	-.0068	-.0101	.0118	.0008	-.85

TEST 47 RUN 18

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
29986	.199	2744.1	-.36	-.0166	.0109	-.0061	-.0167	.0108	.0004	-1.53
29987	.201	2784.8	.84	.0407	.0111	-.0126	.0409	.0105	.0005	3.66
29988	.200	2756.6	3.16	.1369	.0135	-.0240	.1374	.0059	.0006	10.16
29989	.200	2771.4	7.35	.3048	.0270	-.0452	.3057	-.0122	.0009	11.27
29990	.201	2776.3	10.01	.4336	.0548	-.0662	.4366	-.0215	.0013	7.92
29991	.200	2766.8	11.08	.4978	.0741	-.0772	.5027	-.0229	.0056	6.71
29992	.200	2765.4	12.35	.5498	.0968	-.0840	.5578	-.0230	.0042	5.68
29993	.200	2766.3	13.52	.6375	.1280	-.0965	.6498	-.0246	.0025	4.98
29994	.200	2765.4	14.75	.6918	.1576	-.0960	.7091	-.0237	-.0045	4.39
29995	.200	2755.8	15.85	.7351	.1857	-.0961	.7578	-.0222	.0014	3.96
29996	.199	2746.8	17.19	.7963	.2231	-.1009	.8266	-.0222	.0019	3.57
29997	.200	2756.7	18.17	.8453	.2533	-.1045	.8821	-.0229	.0018	3.34
29998	.200	2751.3	19.19	.8978	.2869	-.1105	.9422	-.0241	.0015	3.13
29999	.199	2747.7	20.40	.9544	.3275	-.1168	1.0087	-.0257	.0011	2.91
30000	.200	2767.9	23.98	1.0963	.4555	-.1339	1.1868	-.0294	.0007	2.41
30001	.200	2754.0	28.70	1.2569	.6483	-.1571	1.4138	-.0350	-.0005	1.94
30002	.201	2793.4	-.36	-.0138	.0108	-.0064	-.0138	.0107	.0006	-1.27

TEST 47 RUN 19

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
30003	.300	6016.9	-.44	-.0222	.0103	-.0058	-.0223	.0101	.0003	-2.16
30004	.300	6021.4	.27	.0120	.0103	-.0097	.0120	.0102	.0003	1.17
30005	.300	6025.3	3.58	.1553	.0136	-.0264	.1558	.0039	.0005	11.39
30006	.300	5992.1	8.02	.3475	.0325	-.0543	.3486	-.0163	.0002	10.69
30007	.299	5986.6	10.51	.4774	.0670	-.0745	.4816	-.0212	.0032	7.12
30008	.301	6046.3	12.17	.5778	.1040	-.0885	.5868	-.0201	.0022	5.55
30009	.300	6010.5	13.36	.6449	.1310	-.0978	.6577	-.0216	.0013	4.92
30010	.301	6043.1	14.77	.7006	.1642	-.0944	.7193	-.0199	-.0013	4.27
30011	.300	6018.0	-.44	-.0204	.0103	-.0061	-.0205	.0101	.0004	-1.99

TEST 47 RUN 20

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
30014	.200	2769.4	-.36	-.0152	.0109	-.0063	-.0152	.0108	.0005	-1.39
30015	.200	2776.0	.77	.0399	.0112	-.0127	.0401	.0107	.0006	3.56
30016	.198	2722.1	3.14	.1354	.0137	-.0239	.1359	.0063	.0008	9.85
30017	.200	2772.0	7.34	.3075	.0283	-.0455	.3086	-.0112	.0008	10.86
30018	.200	2760.4	9.84	.4234	.0526	-.0630	.4261	-.0205	.0008	8.05
30019	.200	2771.2	11.23	.4899	.0731	-.0728	.4948	-.0238	.0026	6.70
30020	.201	2791.7	12.27	.5272	.0886	-.0780	.5340	-.0254	.0024	5.95
30021	.200	2774.6	13.35	.6020	.1148	-.0874	.6123	-.0273	.0030	5.25
30022	.200	2769.4	14.92	.6856	.1545	-.0953	.7022	-.0272	.0027	4.44
30023	.200	2771.5	15.79	.7311	.1793	-.0986	.7523	-.0264	.0024	4.08
30024	.200	2760.1	17.06	.7937	.2163	-.1026	.8222	-.0261	.0023	3.67
30025	.200	2763.5	18.27	.8504	.2528	-.1067	.8868	-.0265	.0012	3.36
30026	.200	2751.5	19.40	.9061	.2899	-.1125	.9509	-.0275	.0006	3.13
30027	.201	2785.3	20.58	.9471	.3245	-.1173	1.0007	-.0292	-.0001	2.92
30028	.200	2750.3	24.10	1.0931	.4523	-.1315	1.1825	-.0335	.0001	2.42
30029	.200	2762.8	28.53	1.2364	.6292	-.1506	1.3867	-.0377	-.0014	1.97
30030	.199	2748.6	-.35	-.0118	.0108	-.0063	-.0119	.0107	.0005	-1.09

TEST 47 RUN 21

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
30033	.200	2768.8	-.37	-.0165	.0112	-.0062	-.0166	.0111	.0003	-1.48
30034	.200	2770.4	.72	.0331	.0113	-.0120	.0332	.0109	.0006	2.92
30035	.200	2771.7	3.12	.1353	.0140	-.0235	.1358	.0066	.0008	9.69
30036	.200	2758.7	7.56	.3155	.0302	-.0465	.3167	-.0116	.0008	10.45
30037	.200	2752.9	9.60	.4090	.0499	-.0600	.4116	-.0190	.0001	8.20
30038	.199	2746.5	10.87	.4701	.0671	-.0690	.4744	-.0227	.0016	7.00
30039	.199	2739.2	12.08	.5319	.0877	-.0780	.5385	-.0255	.0019	6.06
30040	.199	2748.1	13.22	.5909	.1098	-.0865	.6004	-.0282	.0019	5.38
30041	.199	2747.2	14.16	.6415	.1320	-.0931	.6543	-.0289	.0022	4.86
30042	.200	2760.6	15.53	.7151	.1684	-.1005	.7341	-.0292	.0026	4.25
30043	.200	2754.6	16.76	.7810	.2052	-.1045	.8070	-.0288	.0020	3.81
30044	.200	2772.3	17.68	.8241	.2326	-.1070	.8558	-.0288	.0006	3.54
30045	.200	2757.6	19.23	.8876	.2788	-.1102	.9299	-.0291	-.0007	3.18
30046	.202	2808.6	20.18	.9308	.3104	-.1135	.9807	-.0297	.0006	3.00
30047	.199	2738.3	23.24	1.0518	.4168	-.1263	1.1310	-.0320	.0020	2.52
30048	.200	2758.6	28.11	1.2032	.6011	-.1476	1.3445	-.0367	-.0007	2.00
30049	.200	2761.8	-.36	-.0117	.0111	-.0061	-.0118	.0110	.0005	-1.05

TEST 47 RUN 22

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
30052	.200	2765.2	-.37	-.0164	.0113	-.0064	-.0165	.0112	.0006	-1.45
30053	.200	2761.9	.74	.0350	.0116	-.0120	.0352	.0111	.0005	3.03
30054	.200	2768.4	3.20	.1393	.0143	-.0240	.1399	.0065	.0008	9.76
30055	.200	2763.3	7.54	.3149	.0305	-.0465	.3162	-.0111	.0008	10.33
30056	.200	2773.5	9.71	.4135	.0516	-.0601	.4162	-.0189	.0007	8.01
30057	.201	2789.8	11.24	.4868	.0734	-.0707	.4918	-.0228	.0012	6.63
30058	.201	2778.0	12.30	.5434	.0923	-.0789	.5506	-.0255	.0009	5.88
30059	.201	2781.3	13.52	.6056	.1168	-.0879	.6161	-.0279	.0024	5.18
30060	.201	2785.5	14.70	.6719	.1450	-.0974	.6867	-.0302	.0035	4.63
30061	.201	2782.0	15.73	.7292	.1722	-.1069	.7486	-.0320	.0044	4.23
30062	.200	2775.6	16.74	.7937	.2048	-.1150	.8190	-.0325	.0025	3.87
30063	.201	2786.9	18.10	.8259	.2399	-.1024	.8596	-.0285	-.0033	3.44
30064	.201	2784.0	19.15	.8703	.2717	-.1070	.9113	-.0288	.0004	3.20
30065	.203	2840.2	20.32	.9281	.3116	-.1142	.9786	-.0301	.0018	2.98
30066	.200	2777.4	23.51	1.0561	.4224	-.1308	1.1369	-.0340	.0006	2.50
30067	.201	2788.1	28.48	1.2098	.6128	-.1492	1.3556	-.0383	-.0016	1.97
30068	.200	2758.5	-.36	-.0152	.0112	-.0060	-.0152	.0111	.0003	-1.36

TEST 47 RUN 23

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
30080	.202	2807.0	-.36	-.0165	.0114	-.0066	-.0166	.0113	.0006	-1.44
30081	.202	2814.1	.64	.0354	.0117	-.0123	.0355	.0113	.0005	3.02
30082	.201	2783.9	3.12	.1354	.0143	-.0237	.1360	.0069	.0005	9.46
30083	.200	2768.6	7.43	.3106	.0303	-.0457	.3119	-.0101	.0009	10.26
30084	.200	2759.4	9.73	.4158	.0530	-.0598	.4187	-.0181	.0002	7.85
30085	.200	2753.6	11.13	.4829	.0727	-.0693	.4879	-.0218	.0010	6.64
30086	.200	2771.7	12.24	.5364	.0921	-.0779	.5457	-.0241	.0014	5.85
30087	.200	2764.9	13.37	.5978	.1147	-.0865	.6081	-.0266	.0014	5.21
30088	.200	2772.1	14.37	.6570	.1389	-.0952	.6709	-.0285	.0021	4.73
30089	.200	2766.6	15.67	.7319	.1732	-.1076	.7514	-.0309	.0033	4.22
30090	.200	2765.5	16.68	.7961	.2054	-.1167	.8215	-.0317	.0015	3.87
30091	.200	2775.1	18.03	.8715	.2486	-.1234	.9057	-.0334	-.0008	3.51
30092	.200	2776.4	19.18	.8686	.2705	-.1056	.9093	-.0299	-.0083	3.21
30093	.200	2775.1	20.06	.8905	.2951	-.1047	.9377	-.0283	.0025	3.02
30094	.202	2808.5	23.74	1.0624	.4297	-.1314	1.1455	-.0343	.0014	2.47
30095	.200	2772.4	28.13	1.1912	.5926	-.1492	1.3299	-.0389	-.0014	2.01
30096	.202	2808.3	-.37	-.0146	.0114	-.0064	-.0147	.0113	.0006	-1.28

TEST 47 RUN 24

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
30110	.200	2775.3	-.37	-.0166	.0106	-.0060	-.0167	.0105	.0010	-1.56
30111	.200	2778.6	.63	.0369	.0110	-.0122	.0370	.0106	.0009	3.35
30112	.200	2780.8	2.97	.1288	.0130	-.0229	.1293	.0063	.0005	9.94
30113	.199	2758.7	7.36	.3074	.0271	-.0459	.3083	-.0125	.0008	11.34
30114	.199	2740.9	9.80	.4267	.0524	-.0669	.4294	-.0210	.0019	8.15
30115	.200	2778.8	10.79	.4789	.0679	-.0748	.4831	-.0230	.0045	7.06
30116	.200	2766.2	12.14	.5529	.0950	-.0839	.5606	-.0234	.0023	5.82
30117	.200	2779.4	13.45	.6310	.1249	-.0945	.6427	-.0253	.0007	5.05
30118	.199	2762.9	14.75	.7040	.1579	-.1034	.7210	-.0266	-.0005	4.46
30119	.201	2794.0	15.94	.7381	.1848	-.0966	.7604	-.0250	.0035	3.99
30120	.200	2774.5	16.89	.7851	.2125	-.1005	.8130	-.0248	.0040	3.69
30121	.202	2828.0	18.26	.8543	.2551	-.1061	.8912	-.0255	.0018	3.35
30122	.200	2791.2	19.16	.8933	.2829	-.1096	.9366	-.0260	.0009	3.16
30123	.201	2808.0	20.45	.9540	.3265	-.1165	1.0080	-.0275	-.0005	2.92
30124	.202	2820.0	23.87	1.0953	.4510	-.1331	1.1841	-.0308	-.0011	2.43
30125	.200	2782.0	28.43	1.2436	.6315	-.1551	1.3942	-.0367	-.0006	1.97
30126	.202	2824.9	-.35	-.0129	.0106	-.0065	-.0130	.0105	.0005	-1.22

Applied new transition strip.

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 47 RUN 25

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
30138	.201	2798.4	-.36	-.0149	.0110	-.0066	-.0150	.0109	.0008	-1.36
30139	.201	2808.4	.67	.0385	.0114	-.0122	.0387	.0110	.0005	3.37
30140	.200	2783.9	3.19	.1377	.0139	-.0238	.1382	.0062	.0006	9.90
30141	.199	2765.5	7.56	.3176	.0301	-.0472	.3188	-.0119	.0009	10.53
30142	.200	2781.6	10.01	.4362	.0566	-.0656	.4394	-.0200	.0008	7.71
30143	.200	2785.7	11.02	.4850	.0710	-.0723	.4897	-.0230	.0013	6.83
30144	.200	2785.6	12.24	.5432	.0922	-.0779	.5504	-.0251	.0024	5.89
30145	.200	2770.7	13.43	.6029	.1160	-.0858	.6134	-.0273	.0025	5.20
30146	.199	2763.8	14.63	.6670	.1445	-.0947	.6819	-.0287	.0024	4.62
30147	.199	2749.1	16.02	.7361	.1818	-.0995	.7577	-.0284	-.0010	4.05
30148	.200	2773.6	17.16	.7904	.2141	-.1015	.8183	-.0286	-.0007	3.69
30149	.200	2769.3	18.06	.8198	.2382	-.0996	.8533	-.0276	-.0001	3.44
30150	.199	2764.6	19.34	.8769	.2780	-.1069	.9195	-.0281	.0041	3.15
30151	.200	2772.5	20.32	.9346	.3135	-.1164	.9853	-.0306	.0031	2.98
30152	.201	2815.6	24.12	1.1025	.4538	-.1367	1.1917	-.0364	.0063	2.43
30153	.196	2682.7	28.46	1.2242	.6165	-.1545	1.3701	-.0414	.0003	1.99
30154	.199	2760.1	-.37	-.0130	.0109	-.0065	-.0130	.0108	.0007	-1.19

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 51 RUN 1

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31132	.202	2823.3	-.04	-.0086	.0119	-.0068	-.0086	.0119	.0006	-.72
31133	.201	2795.1	-.98	-.0465	.0124	-.0028	-.0467	.0116	.0005	-3.74
31134	.201	2800.5	-.00	-.0045	.0118	-.0072	-.0045	.0118	.0007	-.38
31135	.199	2743.1	1.98	.0749	.0127	-.0155	.0753	.0101	.0008	5.89
31136	.201	2792.4	3.92	.1580	.0167	-.0257	.1588	.0058	.0006	9.46
31137	.201	2788.7	5.95	.2547	.0267	-.0399	.2561	.0002	-.0012	9.52
31138	.200	2777.4	8.04	.3590	.0443	-.0559	.3617	-.0063	.0001	8.11
31139	.200	2766.6	9.98	.4456	.0657	-.0652	.4503	-.0125	.0002	6.78
31140	.199	2742.5	12.16	.5539	.0999	-.0782	.5625	-.0190	.0011	5.54
31141	.199	2742.4	14.20	.6569	.1468	-.0855	.6728	-.0188	-.0003	4.47
31142	.199	2741.4	16.36	.7739	.2041	-.0999	.8000	-.0222	.0015	3.79
31143	.200	2760.6	18.46	.8684	.2667	-.1057	.9082	-.0220	.0014	3.26
31144	.200	2776.8	20.56	.9652	.3377	-.1140	1.0223	-.0228	.0011	2.86
31145	.200	2775.8	22.71	1.0612	.4169	-.1255	1.1398	-.0251	.0019	2.55
31146	.201	2794.0	24.92	1.1400	.5007	-.1366	1.2448	-.0264	.0010	2.28
31147	.201	2785.1	.01	-.0015	.0117	-.0076	-.0015	.0117	.0007	-.13

TEST 51 RUN 2

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31161	.200	2778.5	-.03	-.0042	.0117	-.0073	-.0042	.0117	.0007	-.35
31162	.200	2776.3	-.94	-.0411	.0123	-.0037	-.0413	.0116	.0007	-3.33
31163	.201	2783.9	.01	-.0035	.0118	-.0075	-.0035	.0118	.0007	-.30
31164	.201	2791.7	1.99	.0769	.0126	-.0159	.0772	.0101	.0006	6.01
31165	.201	2796.7	3.95	.1624	.0170	-.0264	.1632	.0058	.0006	9.54
31166	.200	2777.8	5.98	.2604	.0275	-.0407	.2619	.0002	-.0008	9.47
31167	.200	2775.4	8.02	.3612	.0451	-.0560	.3639	-.0057	-.0000	8.01
31168	.200	2767.3	10.00	.4487	.0672	-.0653	.4535	-.0117	-.0001	6.68
31169	.199	2747.8	12.15	.5526	.0998	-.0793	.5612	-.0187	.0008	5.54
31170	.201	2782.6	14.24	.6524	.1426	-.0888	.6674	-.0223	.0014	4.58
31171	.200	2769.1	16.37	.7602	.1972	-.0993	.7849	-.0250	.0011	3.85
31172	.201	2780.2	18.51	.8741	.2648	-.1100	.9129	-.0263	.0010	3.30
31173	.200	2765.4	20.57	.9474	.3283	-.1082	1.0024	-.0255	.0005	2.89
31174	.201	2781.6	22.71	1.0187	.3990	-.1142	1.0937	-.0252	.0016	2.55
31175	.201	2804.4	24.92	1.0937	.4799	-.1244	1.1941	-.0255	.0008	2.28
31176	.202	2807.2	-.01	-.0030	.0117	-.0073	-.0030	.0117	.0007	-.26

TEST 51 RUN 4

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31219	.201	2775.1	-.03	-.0032	.0114	-.0075	-.0032	.0114	.0008	-.28
31220	.200	2767.3	-.97	-.0421	.0119	-.0031	-.0423	.0112	.0008	-3.53
31221	.200	2771.8	-.03	-.0024	.0115	-.0073	-.0024	.0115	.0009	-.20
31222	.201	2785.0	1.95	.0774	.0124	-.0161	.0778	.0098	.0008	6.24
31223	.201	2785.0	3.94	.1633	.0164	-.0267	.1640	.0051	.0006	9.97
31224	.201	2776.3	5.91	.2541	.0257	-.0403	.2554	-.0006	.0004	9.89
31225	.200	2766.2	7.96	.3485	.0404	-.0540	.3508	-.0083	-.0001	8.63
31226	.200	2758.3	9.93	.4373	.0609	-.0661	.4413	-.0154	.0004	7.18
31227	.199	2744.1	12.06	.5401	.0928	-.0805	.5476	-.0221	.0003	5.82
31228	.200	2770.3	14.14	.6430	.1383	-.0902	.6573	-.0230	.0011	4.65
31229	.200	2761.0	16.30	.7623	.1964	-.1050	.7867	-.0255	.0005	3.88
31230	.200	2761.2	18.44	.8776	.2644	-.1169	.9161	-.0268	-.0006	3.32
31231	.200	2764.8	20.58	.9779	.3361	-.1254	1.0337	-.0292	-.0002	2.91
31232	.200	2769.5	22.66	1.0578	.4085	-.1301	1.1336	-.0306	.0001	2.59
31233	.200	2772.9	24.91	1.1272	.4896	-.1349	1.2286	-.0308	.0003	2.30
31234	.200	2751.2	-.02	.0001	.0115	-.0077	.0001	.0115	.0007	.01

TEST 51 RUN 5

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31247	.200	2750.2	-.02	-.0003	.0111	-.0080	-.0003	.0111	.0008	-.03
31248	.199	2743.3	-1.00	-.0407	.0116	-.0038	-.0409	.0109	.0009	-3.50
31249	.200	2746.1	-.02	-.0001	.0111	-.0080	-.0001	.0111	.0010	-.01
31250	.200	2757.3	1.95	.0797	.0120	-.0170	.0800	.0093	.0011	6.64
31251	.200	2761.8	3.99	.1673	.0162	-.0281	.1681	.0045	.0011	10.32
31252	.200	2758.7	5.93	.2567	.0253	-.0418	.2580	-.0014	.0004	10.16
31253	.199	2745.8	7.96	.3490	.0397	-.0552	.3512	-.0090	.0004	8.79
31254	.200	2770.5	10.02	.4470	.0621	-.0690	.4510	-.0166	.0001	7.20
31255	.200	2764.0	12.09	.5538	.0961	-.0827	.5616	-.0221	.0019	5.77
31256	.201	2777.6	14.20	.6705	.1483	-.0929	.6864	-.0207	-.0047	4.52
31257	.200	2754.0	16.34	.7587	.2002	-.0965	.7844	-.0213	.0043	3.79
31258	.201	2777.6	18.42	.8523	.2601	-.1034	.8909	-.0225	.0026	3.28
31259	.200	2760.3	20.48	.9470	.3278	-.1154	1.0018	-.0243	.0014	2.89
31260	.200	2772.4	22.64	1.0344	.4030	-.1249	1.1099	-.0262	.0009	2.57
31261	.200	2759.6	24.65	1.1066	.4828	-.1347	1.2071	-.0269	.0013	2.29
31262	.200	2767.6	-.00	.0005	.0110	-.0080	.0005	.0110	.0008	.04

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TEST 51 RUN 6

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31278	.200	2751.8	-.02	-.0027	.0109	-.0079	-.0027	.0109	.0005	-.25
31279	.199	2743.1	-.98	-.0422	.0114	-.0036	-.0424	.0107	.0007	-3.70
31280	.200	2754.2	-.04	-.0039	.0109	-.0080	-.0039	.0109	.0008	-.36
31281	.200	2758.5	1.98	.0777	.0120	-.0171	.0780	.0093	.0007	6.49
31282	.200	2765.1	3.91	.1589	.0156	-.0274	.1596	.0048	.0009	10.16
31283	.200	2760.3	5.93	.2477	.0237	-.0404	.2488	-.0020	.0006	10.45
31284	.200	2748.9	7.97	.3381	.0363	-.0536	.3399	-.0109	.0005	9.31
31285	.199	2742.8	9.94	.4322	.0568	-.0682	.4355	-.0187	.0001	7.61
31286	.199	2744.5	12.10	.5489	.0940	-.0859	.5564	-.0231	.0024	5.84
31287	.200	2768.3	14.30	.6753	.1493	-.1000	.6912	-.0221	-.0047	4.52
31288	.201	2782.1	16.36	.7613	.1996	-.1036	.7867	-.0229	.0024	3.81
31289	.200	2760.3	18.50	.8704	.2651	-.1136	.9095	-.0248	.0012	3.28
31290	.201	2777.7	20.58	.9633	.3334	-.1221	1.0191	-.0265	.0000	2.89
31291	.201	2781.8	22.78	1.0541	.4118	-.1322	1.1314	-.0284	-.0006	2.56
31292	.200	2768.4	24.98	1.1237	.4909	-.1400	1.2259	-.0295	.0002	2.29
31293	.200	2761.1	-.02	-.0025	.0109	-.0078	-.0025	.0109	.0005	-.23

TEST 51 RUN 7

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31306	.200	2760.8	-.02	-.0031	.0111	-.0080	-.0031	.0111	.0008	-.28
31307	.200	2759.1	-.99	-.0439	.0117	-.0031	-.0441	.0109	.0005	-3.76
31308	.200	2761.8	-.04	-.0063	.0112	-.0077	-.0063	.0112	.0009	-.56
31309	.201	2775.0	2.05	.0814	.0122	-.0174	.0818	.0093	.0009	6.69
31310	.201	2781.6	3.92	.1605	.0160	-.0272	.1612	.0050	.0009	10.05
31311	.200	2755.6	5.95	.2477	.0242	-.0398	.2489	-.0016	.0008	10.23
31312	.201	2780.7	7.98	.3375	.0369	-.0532	.3394	-.0103	.0006	9.15
31313	.201	2772.6	9.95	.4303	.0570	-.0675	.4337	-.0182	.0009	7.54
31314	.200	2753.1	12.11	.5278	.0896	-.0787	.5348	-.0231	.0004	5.89
31315	.200	2753.4	14.17	.6317	.1366	-.0867	.6459	-.0222	.0020	4.62
31316	.200	2754.4	16.33	.7408	.1922	-.1000	.7650	-.0238	.0029	3.85
31317	.201	2771.2	18.45	.8454	.2555	-.1109	.8828	-.0252	.0024	3.31
31318	.201	2782.7	20.56	.9507	.3276	-.1226	1.0052	-.0270	.0019	2.90
31319	.200	2764.5	22.74	1.0445	.4060	-.1349	1.1203	-.0294	.0018	2.57
31320	.201	2779.8	24.98	1.1258	.4905	-.1443	1.2276	-.0308	.0016	2.30
31321	.200	2761.4	-.02	-.0012	.0111	-.0080	-.0012	.0111	.0007	-.11

TEST 51 RUN 8

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31336	.201	2782.0	-.02	-.0038	.0109	-.0068	-.0038	.0109	.0008	-.35
31337	.201	2783.9	-.98	-.0436	.0112	-.0023	-.0438	.0105	.0006	-3.89
31338	.201	2786.3	-.03	-.0051	.0108	-.0068	-.0051	.0108	.0009	-.47
31339	.201	2791.6	1.95	.0734	.0115	-.0155	.0737	.0090	.0010	6.38
31340	.200	2778.4	3.92	.1536	.0148	-.0256	.1542	.0043	.0009	10.36
31341	.200	2775.2	5.91	.2365	.0213	-.0366	.2375	-.0031	.0009	11.09
31342	.200	2768.7	7.94	.3254	.0322	-.0503	.3268	-.0130	.0008	10.11
31343	.200	2766.5	9.92	.4209	.0528	-.0648	.4237	-.0205	.0018	7.97
31344	.200	2753.7	12.15	.5477	.0938	-.0871	.5552	-.0236	.0022	5.84
31345	.200	2761.5	14.18	.6528	.1413	-.0962	.6675	-.0229	-.0013	4.62
31346	.201	2796.7	16.34	.7559	.1967	-.1032	.7807	-.0240	.0013	3.84
31347	.201	2788.4	18.45	.8587	.2590	-.1124	.8965	-.0260	.0012	3.32
31348	.199	2748.5	20.50	.9503	.3255	-.1211	1.0041	-.0278	.0001	2.92
31349	.200	2757.6	22.68	1.0475	.4043	-.1327	1.1224	-.0309	.0009	2.59
31350	.202	2811.4	25.00	1.1455	.4976	-.1457	1.2485	-.0331	-.0001	2.30
31351	.200	2774.8	-.04	-.0021	.0105	-.0075	-.0021	.0105	.0008	-.20

TEST 51 RUN 9

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31364	.201	2791.7	-.03	-.0033	.0109	-.0073	-.0033	.0109	.0008	-.30
31365	.201	2788.4	-.98	-.0432	.0115	-.0024	-.0434	.0107	.0006	-3.76
31366	.201	2791.7	-.00	-.0020	.0109	-.0075	-.0020	.0109	.0010	-.18
31367	.201	2791.3	1.96	.0746	.0116	-.0160	.0750	.0091	.0010	6.41
31368	.201	2797.6	3.94	.1561	.0153	-.0261	.1568	.0045	.0012	10.23
31369	.201	2795.1	5.92	.2394	.0220	-.0369	.2404	-.0028	.0010	10.86
31370	.201	2788.6	7.99	.3284	.0335	-.0506	.3298	-.0125	.0007	9.81
31371	.200	2777.0	9.95	.4193	.0536	-.0642	.4223	-.0197	.0016	7.83
31372	.200	2762.5	12.08	.5292	.0892	-.0788	.5362	-.0236	.0015	5.93
31373	.200	2776.5	14.17	.6295	.1355	-.0861	.6435	-.0227	-.0011	4.65
31374	.199	2751.2	16.30	.7256	.1877	-.0926	.7491	-.0235	.0015	3.87
31375	.200	2776.8	18.47	.8281	.2492	-.1018	.8644	-.0260	.0022	3.32
31376	.201	2790.0	20.52	.9145	.3131	-.1105	.9662	-.0273	.0020	2.92
31377	.200	2779.1	22.66	1.0095	.3889	-.1227	1.0814	-.0300	.0017	2.60
31378	.200	2774.8	24.89	1.0954	.4741	-.1349	1.1932	-.0310	.0026	2.31
31379	.200	2768.5	-.02	-.0013	.0108	-.0072	-.0013	.0108	.0008	-.12

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TEST 51 RUN 10

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31393	.200	2763.5	-.03	-.0046	.0106	-.0073	-.0046	.0106	.0007	-.44
31394	.200	2758.5	-.97	-.0428	.0111	-.0026	-.0430	.0104	.0007	-3.86
31395	.200	2765.2	.01	-.0058	.0107	-.0070	-.0058	.0107	.0009	-.54
31396	.200	2768.8	1.98	.0734	.0113	-.0159	.0738	.0088	.0010	6.49
31397	.200	2776.7	3.93	.1520	.0146	-.0254	.1526	.0042	.0014	10.39
31398	.201	2780.3	5.95	.2327	.0209	-.0354	.2336	-.0034	.0015	11.16
31399	.200	2768.6	7.99	.3203	.0311	-.0480	.3215	-.0138	.0012	10.30
31400	.200	2769.2	9.98	.4069	.0501	-.0605	.4114	-.0215	.0017	8.16
31401	.200	2763.7	12.14	.5107	.0831	-.0732	.5168	-.0261	.0023	6.14
31402	.200	2775.3	14.23	.6120	.1311	-.0786	.6255	-.0234	-.0011	4.67
31403	.200	2774.3	16.39	.7115	.1826	-.0884	.7341	-.0255	.0023	3.90
31404	.201	2787.3	18.55	.8218	.2463	-.0981	.8574	-.0279	.0027	3.34
31405	.200	2756.2	20.60	.9094	.3112	-.1058	.9608	-.0286	.0021	2.92
31406	.201	2789.2	22.82	1.0074	.3901	-.1193	1.0798	-.0312	.0024	2.58
31407	.201	2799.5	24.99	1.0995	.4761	-.1329	1.1977	-.0329	.0025	2.31
31408	.199	2743.1	.00	-.0038	.0105	-.0074	-.0038	.0105	.0012	-.36

TEST 51 RUN 11

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31411	.200	2762.5	-.03	-.0044	.0105	-.0073	-.0044	.0105	.0008	-.42
31412	.200	2771.7	-1.01	-.0428	.0109	-.0027	-.0430	.0102	.0007	-3.92
31413	.201	2779.5	-.04	-.0053	.0103	-.0072	-.0053	.0103	.0008	-.51
31414	.201	2784.9	1.95	.0738	.0111	-.0162	.0742	.0085	.0011	6.67
31415	.201	2792.9	3.92	.1525	.0143	-.0255	.1531	.0038	.0013	10.69
31416	.201	2791.6	5.92	.2323	.0204	-.0355	.2332	-.0037	.0013	11.41
31417	.201	2778.5	8.02	.3210	.0305	-.0484	.3222	-.0145	.0006	10.52
31418	.200	2772.4	9.96	.4110	.0496	-.0612	.4134	-.0223	.0021	8.29
31419	.200	2762.7	12.12	.5166	.0834	-.0750	.5226	-.0269	.0026	6.19
31420	.200	2766.0	14.27	.6252	.1346	-.0808	.6391	-.0237	-.0015	4.64
31421	.200	2751.7	16.41	.7226	.1857	-.0894	.7456	-.0259	.0006	3.89
31422	.200	2775.0	18.54	.8297	.2485	-.0996	.8657	-.0282	.0025	3.34
31423	.200	2772.6	20.61	.9216	.3150	-.1085	.9735	-.0296	.0009	2.93
31424	.200	2776.8	22.78	1.0162	.3923	-.1200	1.0888	-.0318	.0010	2.59
31425	.200	2768.7	24.94	1.0953	.4727	-.1300	1.1925	-.0332	.0015	2.32
31426	.200	2753.5	-.09	-.0058	.0104	-.0071	-.0058	.0104	.0008	-.55

TEST 51 RUN 12

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31429	.200	2765.1	-.03	-.0060	.0106	-.0072	-.0060	.0106	.0010	-.56
31430	.200	2764.0	-.97	-.0452	.0111	-.0028	-.0454	.0103	.0008	-4.08
31431	.200	2774.7	-.01	-.0071	.0106	-.0073	-.0071	.0106	.0009	-.67
31432	.201	2779.8	1.99	.0737	.0113	-.0163	.0741	.0087	.0011	6.52
31433	.201	2786.3	3.97	.1530	.0146	-.0256	.1536	.0039	.0014	10.50
31434	.201	2781.9	5.97	.2321	.0207	-.0353	.2330	-.0035	.0016	11.19
31435	.200	2770.6	8.03	.3172	.0308	-.0473	.3184	-.0138	.0010	10.29
31436	.200	2771.7	10.02	.4087	.0504	-.0609	.4113	-.0215	.0020	8.12
31437	.200	2751.2	12.21	.5165	.0856	-.0749	.5229	-.0256	.0027	6.03
31438	.200	2769.4	14.32	.6235	.1354	-.0811	.6376	-.0230	-.0012	4.60
31439	.200	2766.6	16.46	.7245	.1879	-.0917	.7480	-.0251	.0021	3.86
31440	.200	2771.1	18.60	.8310	.2509	-.1016	.8676	-.0272	.0034	3.31
31441	.200	2760.5	20.66	.9208	.3167	-.1103	.9733	-.0286	.0026	2.91
31442	.201	2788.8	22.86	1.0177	.3955	-.1224	1.0914	-.0310	.0026	2.57
31443	.200	2762.9	25.01	1.1052	.4793	-.1343	1.2042	-.0328	.0022	2.31
31444	.201	2785.0	-.06	-.0075	.0105	-.0068	-.0075	.0105	.0006	-.71

TEST 51 RUN 13

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31447	.201	2778.3	-.04	-.0087	.0105	-.0070	-.0087	.0105	.0008	-.83
31448	.200	2765.1	-.94	-.0442	.0109	-.0027	-.0443	.0102	.0007	-4.04
31449	.200	2775.0	.01	-.0073	.0104	-.0073	-.0073	.0104	.0008	-.71
31450	.201	2766.1	2.03	.0723	.0112	-.0164	.0727	.0087	.0013	6.44
31451	.201	2791.6	3.98	.1525	.0145	-.0256	.1531	.0038	.0015	10.55
31452	.201	2787.7	6.00	.2305	.0206	-.0351	.2314	-.0037	.0012	11.21
31453	.201	2778.5	8.05	.3173	.0303	-.0477	.3184	-.0144	.0008	10.46
31454	.200	2765.8	10.04	.4105	.0501	-.0613	.4130	-.0222	.0021	8.19
31455	.200	2766.7	12.21	.5168	.0849	-.0755	.5231	-.0263	.0024	6.09
31456	.200	2775.4	14.34	.6269	.1363	-.0821	.6412	-.0232	-.0017	4.60
31457	.201	2783.0	16.50	.7257	.1887	-.0915	.7494	-.0252	.0009	3.85
31458	.200	2763.7	18.63	.8376	.2534	-.1024	.8747	-.0274	.0024	3.30
31459	.200	2775.8	20.70	.9288	.3205	-.1115	.9821	-.0286	.0007	2.90
31460	.201	2786.0	22.90	1.0234	.3988	-.1226	1.0979	-.0308	.0005	2.57
31461	.201	2795.7	25.08	1.1074	.4823	-.1345	1.2074	-.0326	.0011	2.30
31462	.201	2780.2	.02	-.0060	.0104	-.0073	-.0060	.0104	.0010	-.58

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7 X 10 HIGH SPEED TUNNEL

TEST 51 RUN 14

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31465	.201	2790.2	-.03	-.0065	.0106	-.0072	-.0065	.0106	.0008	-.61
31466	.200	2773.7	-.98	-.0438	.0109	-.0028	-.0440	.0102	.0007	-4.01
31467	.201	2781.3	-.04	-.0064	.0105	-.0071	-.0064	.0105	.0009	-.61
31468	.201	2789.2	1.97	.0727	.0113	-.0162	.0730	.0088	.0011	6.45
31469	.202	2804.8	3.96	.1513	.0145	-.0256	.1520	.0041	.0015	10.40
31470	.201	2790.0	5.98	.2325	.0206	-.0349	.2334	-.0038	.0014	11.31
31471	.200	2773.7	8.05	.3203	.0307	-.0475	.3215	-.0145	.0011	10.44
31472	.200	2764.9	10.00	.4124	.0508	-.0619	.4149	-.0216	.0025	8.12
31473	.200	2750.6	12.16	.5196	.0853	-.0761	.5259	-.0261	.0025	6.09
31474	.200	2759.1	14.31	.6260	.1360	-.0840	.6402	-.0230	-.0013	4.60
31475	.200	2774.4	16.45	.7282	.1889	-.0932	.7518	-.0251	.0025	3.86
31476	.200	2751.9	18.60	.8351	.2524	-.1030	.8720	-.0272	.0028	3.31
31477	.201	2796.1	20.69	.9279	.3200	-.1120	.9811	-.0285	.0011	2.90
31478	.200	2768.3	22.86	1.0287	.4000	-.1242	1.1033	-.0310	.0010	2.57
31479	.202	2802.8	25.05	1.1153	.4849	-.1358	1.2157	-.0330	.0016	2.30
31480	.200	2768.4	-.03	-.0058	.0105	-.0074	-.0058	.0105	.0007	-.55

TEST 51 RUN 15

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31495	.200	2785.2	-.04	-.0066	.0107	-.0070	-.0066	.0107	.0009	-.62
31496	.200	2780.1	-.96	-.0445	.0111	-.0024	-.0447	.0103	.0006	-4.01
31497	.201	2791.8	-.01	-.0065	.0106	-.0069	-.0065	.0106	.0008	-.61
31498	.201	2799.2	1.99	.0752	.0114	-.0164	.0755	.0088	.0012	6.61
31499	.201	2801.7	3.96	.1542	.0146	-.0258	.1548	.0040	.0012	10.53
31500	.201	2801.8	5.95	.2331	.0208	-.0356	.2340	-.0035	.0012	11.21
31501	.200	2788.7	8.00	.3168	.0306	-.0472	.3199	-.0140	.0008	10.41
31502	.200	2784.6	10.01	.4160	.0519	-.0615	.4187	-.0212	.0018	8.02
31503	.200	2783.9	12.15	.5227	.0869	-.0769	.5293	-.0251	.0033	6.02
31504	.200	2768.0	14.26	.6292	.1372	-.0834	.6436	-.0220	-.0008	4.59
31505	.200	2768.0	16.42	.7270	.1894	-.0916	.7509	-.0238	.0014	3.84
31506	.200	2791.0	18.62	.8365	.2541	-.1023	.8738	-.0263	.0033	3.29
31507	.200	2792.2	20.63	.9204	.3174	-.1093	.9732	-.0272	.0016	2.90
31508	.200	2786.1	22.79	1.0093	.3923	-.1204	1.0825	-.0294	.0019	2.57
31509	.200	2781.5	25.01	1.0960	.4773	-.1299	1.1950	-.0307	.0026	2.30
31510	.200	2772.5	-.01	-.0051	.0107	-.0070	-.0051	.0107	.0010	-.48

TEST 51 RUN 16

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31513	.200	2791.8	-.03	-.0043	.0106	-.0071	-.0043	.0106	.0009	-.40
31514	.201	2801.7	-.95	-.0424	.0110	-.0027	-.0426	.0103	.0010	-3.86
31515	.201	2801.7	-.02	-.0041	.0105	-.0072	-.0041	.0105	.0010	-.39
31516	.200	2783.9	1.97	.0762	.0113	-.0164	.0765	.0087	.0014	6.72
31517	.200	2792.0	3.93	.1525	.0145	-.0256	.1532	.0040	.0012	10.50
31518	.200	2788.5	5.94	.2350	.0207	-.0358	.2358	-.0037	.0009	11.33
31519	.201	2798.6	8.00	.3191	.0306	-.0470	.3203	-.0141	.0007	10.44
31520	.200	2789.3	9.98	.4114	.0510	-.0608	.4141	-.0210	.0021	8.06
31521	.200	2767.6	12.16	.5316	.0899	-.0798	.5386	-.0241	.0025	5.91
31522	.200	2776.0	14.29	.6336	.1391	-.0855	.6483	-.0216	-.0002	4.56
31523	.200	2788.8	16.43	.7324	.1915	-.0935	.7566	-.0236	.0025	3.83
31524	.200	2786.6	18.56	.8315	.2516	-.1003	.8683	-.0261	.0030	3.31
31525	.200	2790.3	20.62	.9166	.3157	-.1080	.9690	-.0273	.0011	2.90
31526	.200	2791.6	22.80	1.0045	.3900	-.1175	1.0772	-.0298	.0004	2.58
31527	.200	2790.1	25.00	1.0986	.4775	-.1292	1.1975	-.0315	.0004	2.30
31528	.200	2780.2	-.03	-.0051	.0106	-.0069	-.0051	.0106	.0008	-.48

TEST 51 RUN 18

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31550	.200	2788.5	-.03	-.0043	.0108	-.0076	-.0043	.0108	.0007	-.39
31551	.200	2781.3	-1.00	-.0427	.0113	-.0031	-.0429	.0106	.0007	-3.77
31552	.201	2605.1	-.05	-.0048	.0109	-.0076	-.0048	.0109	.0006	-.44
31553	.201	2796.5	1.95	.0748	.0117	-.0167	.0751	.0091	.0013	6.42
31554	.201	2799.5	3.93	.1538	.0149	-.0256	.1545	.0043	.0011	10.31
31555	.201	2806.1	5.93	.2337	.0211	-.0350	.2346	-.0032	.0011	11.09
31556	.200	2793.9	7.97	.3164	.0310	-.0465	.3176	-.0132	.0011	10.20
31557	.200	2780.4	9.96	.4062	.0503	-.0590	.4088	-.0207	.0020	8.07
31558	.200	2791.2	12.12	.5056	.0830	-.0713	.5117	-.0250	.0028	6.09
31559	.199	2765.1	14.24	.6106	.1318	-.0773	.6242	-.0225	-.0002	4.63
31560	.200	2777.1	16.40	.7111	.1839	-.0884	.7341	-.0244	.0029	3.87
31561	.200	2785.3	18.55	.8208	.2476	-.0987	.8569	-.0264	.0031	3.31
31562	.200	2779.7	20.64	.9121	.3141	-.1087	.9642	-.0275	.0022	2.90
31563	.200	2783.3	22.81	1.0127	.3935	-.1221	1.0861	-.0298	.0033	2.57
31564	.201	2812.5	25.02	1.1053	.4815	-.1352	1.2052	-.0312	.0027	2.30
31565	.200	2778.6	-.03	-.0033	.0108	-.0076	-.0033	.0108	.0007	-.30

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 51 RUN 19

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31569	.200	2772.0	-.04	-.0074	.0110	-.0065	-.0074	.0110	.0008	-.67
31570	.199	2766.3	-.98	-.0460	.0118	-.0021	-.0462	.0110	.0008	-3.90
31571	.200	2791.9	-.05	-.0094	.0111	-.0063	-.0094	.0111	.0006	-.85
31572	.201	2800.6	1.96	.0726	.0115	-.0161	.0729	.0090	.0010	6.32
31573	.200	2777.4	3.93	.1520	.0144	-.0252	.1526	.0040	.0011	10.56
31574	.200	2783.1	5.94	.2347	.0204	-.0353	.2355	-.0040	.0013	11.51
31575	.201	2804.9	8.00	.3201	.0303	-.0472	.3212	-.0145	.0008	10.56
31576	.201	2802.5	9.99	.4136	.0510	-.0618	.4161	-.0216	.0023	8.12
31577	.200	2775.1	12.15	.5209	.0857	-.0756	.5273	-.0259	.0024	6.08
31578	.200	2786.0	14.28	.6284	.1371	-.0829	.6428	-.0221	-.0008	4.58
31579	.201	2804.2	16.46	.7301	.1900	-.0930	.7540	-.0246	.0013	3.84
31580	.200	2782.3	18.60	.8342	.2519	-.1007	.8710	-.0273	.0023	3.31
31581	.201	2806.3	20.68	.9203	.3173	-.1089	.9730	-.0282	.0006	2.90
31582	.201	2797.5	22.85	1.0131	.3933	-.1195	1.0863	-.0310	.0007	2.58
31583	.199	2765.9	24.94	1.0795	.4664	-.1281	1.1755	-.0323	.0004	2.31
31584	.200	2775.5	-.04	-.0064	.0111	-.0067	-.0064	.0111	.0007	-.58

TEST 51 RUN 20

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31587	.200	2768.4	-.03	-.0062	.0108	-.0074	-.0062	.0108	.0008	-.58
31588	.200	2775.3	-.97	-.0438	.0112	-.0027	-.0439	.0104	.0007	-3.92
31589	.201	2810.0	-.05	-.0052	.0108	-.0070	-.0053	.0108	.0010	-.49
31590	.201	2811.7	2.02	.0767	.0116	-.0165	.0771	.0089	.0012	6.63
31591	.201	2802.0	3.93	.1531	.0151	-.0259	.1538	.0046	.0011	10.13
31592	.201	2798.2	5.96	.2357	.0219	-.0361	.2367	-.0027	.0013	10.76
31593	.200	2793.5	8.01	.3237	.0329	-.0484	.3251	-.0125	.0011	9.84
31594	.200	2788.5	10.00	.4087	.0506	-.0604	.4113	-.0212	.0007	8.08
31595	.201	2797.8	12.16	.5016	.0799	-.0688	.5071	-.0275	.0013	6.28
31596	.200	2780.8	14.28	.5978	.1257	-.0746	.6103	-.0256	.0013	4.76
31597	.200	2794.3	16.44	.6988	.1773	-.0870	.7205	-.0276	.0023	3.94
31598	.200	2776.8	18.59	.8052	.2409	-.0968	.8400	-.0283	.0027	3.34
31599	.201	2800.7	20.70	.9051	.3107	-.1075	.9565	-.0294	.0020	2.91
31600	.200	2792.4	22.86	1.0059	.3893	-.1209	1.0781	-.0320	.0026	2.58
31601	.200	2792.7	25.01	1.0992	.4759	-.1324	1.1973	-.0335	.0009	2.31
31602	.200	2779.1	-.02	-.0040	.0108	-.0073	-.0040	.0108	.0009	-.37

TEST 51 RUN 21

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31615	.200	2791.8	-.03	-.0058	.0106	-.0072	-.0058	.0106	.0008	-.55
31616	.201	2796.3	-.96	-.0442	.0111	-.0028	-.0444	.0103	.0007	-3.99
31617	.201	2804.9	-.00	-.0062	.0106	-.0071	-.0062	.0106	.0007	-.59
31618	.201	2796.0	2.00	.0744	.0114	-.0163	.0747	.0088	.0011	6.53
31619	.201	2801.8	3.96	.1541	.0149	-.0261	.1547	.0042	.0014	10.34
31620	.201	2798.7	5.97	.2366	.0214	-.0362	.2375	-.0034	.0009	11.08
31621	.200	2788.7	8.10	.3266	.0323	-.0496	.3279	-.0141	.0008	10.13
31622	.200	2783.4	10.08	.4147	.0505	-.0620	.4172	-.0229	.0010	8.22
31623	.200	2772.4	12.24	.5081	.0805	-.0707	.5136	-.0290	.0010	6.31
31624	.200	2769.9	14.37	.6074	.1278	-.0762	.6201	-.0270	.0010	4.75
31625	.200	2790.7	16.50	.7095	.1794	-.0879	.7312	-.0294	.0030	3.95
31626	.200	2780.9	18.65	.8175	.2437	-.0974	.8525	-.0305	.0021	3.35
31627	.200	2772.2	20.70	.9052	.3086	-.1066	.9558	-.0314	.0007	2.93
31628	.200	2792.7	22.91	1.0112	.3906	-.1203	1.0835	-.0339	.0011	2.59
31629	.201	2810.7	25.05	1.1091	.4796	-.1341	1.2078	-.0352	.0012	2.31
31630	.200	2780.3	.00	-.0033	.0106	-.0076	-.0033	.0106	.0010	-.31

TEST 51 RUN 22

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31633	.200	2775.3	-.03	-.0057	.0106	-.0073	-.0057	.0106	.0010	-.54
31634	.200	2772.0	-.97	-.0410	.0110	-.0030	-.0412	.0103	.0008	-3.73
31635	.200	2778.6	-.02	-.0038	.0105	-.0076	-.0038	.0105	.0010	-.36
31636	.200	2791.8	1.98	.0754	.0114	-.0165	.0757	.0088	.0012	6.61
31637	.201	2800.1	3.95	.1538	.0148	-.0256	.1544	.0042	.0012	10.37
31638	.200	2793.7	5.97	.2356	.0215	-.0358	.2366	-.0032	.0008	10.98
31639	.200	2780.8	8.07	.3236	.0322	-.0481	.3250	-.0135	.0009	10.04
31640	.200	2778.5	10.06	.4105	.0505	-.0608	.4131	-.0219	.0012	8.13
31641	.200	2770.5	12.11	.5008	.0797	-.0696	.5064	-.0271	.0015	6.28
31642	.200	2779.2	14.33	.6176	.1325	-.0802	.6312	-.0245	.0008	4.66
31643	.201	2806.4	16.51	.7280	.1885	-.0943	.7516	-.0262	.0021	3.86
31644	.200	2777.7	18.65	.8293	.2510	-.1038	.8660	-.0274	.0017	3.30
31645	.201	2805.0	20.77	.9355	.3235	-.1145	.9895	-.0292	.0014	2.89
31646	.201	2802.9	22.92	1.0258	.3993	-.1259	1.1003	-.0317	.0020	2.57
31647	.200	2791.9	25.01	1.1102	.4812	-.1360	1.2095	-.0332	.0013	2.31
31648	.200	2775.1	-.04	-.0044	.0106	-.0074	-.0044	.0106	.0008	-.41

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TEST 51 RUN 23

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31651	.200	2785.2	-.03	-.0038	.0105	-.0074	-.0038	.0105	.0007	-.36
31652	.200	2790.2	-.99	-.0441	.0110	-.0028	-.0443	.0103	.0007	-3.99
31653	.200	2793.0	-.05	-.0044	.0106	-.0072	-.0044	.0106	.0011	-.41
31654	.201	2807.5	1.96	.0742	.0113	-.0166	.0746	.0088	.0014	6.54
31655	.200	2787.9	3.93	.1531	.0147	-.0258	.1538	.0042	.0012	10.43
31656	.200	2782.0	5.93	.2318	.0209	-.0354	.2327	-.0032	.0009	11.10
31657	.200	2785.6	7.98	.3181	.0308	-.0482	.3193	-.0137	.0009	10.32
31658	.200	2770.6	9.98	.4093	.0488	-.0611	.4116	-.0228	.0009	8.38
31659	.200	2786.3	12.15	.5048	.0793	-.0707	.5102	-.0287	.0013	6.36
31660	.199	2759.8	14.34	.6120	.1295	-.0771	.6250	-.0261	.0015	4.73
31661	.201	2810.9	16.52	.7192	.1839	-.0899	.7418	-.0282	.0017	3.91
31662	.200	2771.8	18.67	.8267	.2485	-.1004	.8628	-.0292	.0024	3.33
31663	.200	2771.0	20.75	.9261	.3187	-.1115	.9790	-.0301	.0014	2.91
31664	.200	2783.0	22.98	1.0337	.4031	-.1255	1.1091	-.0324	.0014	2.56
31665	.201	2807.1	25.05	1.1216	.4868	-.1377	1.2222	-.0339	.0011	2.30
31666	.200	2793.1	.03	-.0011	.0105	-.0079	-.0011	.0105	.0009	-.11

TEST 51 RUN 24

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31669	.201	2806.1	-.02	-.0024	.0108	-.0081	-.0024	.0108	.0007	-.22
31670	.201	2796.3	-.96	-.0417	.0114	-.0033	-.0419	.0107	.0006	-3.66
31671	.201	2805.1	-.01	-.0036	.0108	-.0079	-.0036	.0108	.0006	-.33
31672	.201	2811.0	2.00	.0787	.0116	-.0177	.0791	.0088	.0011	6.79
31673	.201	2794.2	4.03	.1605	.0153	-.0271	.1612	.0039	.0010	10.52
31674	.200	2787.3	6.04	.2423	.0218	-.0370	.2433	-.0038	.0008	11.11
31675	.200	2782.3	8.11	.3289	.0324	-.0484	.3301	-.0143	.0009	10.16
31676	.200	2769.5	10.10	.4169	.0523	-.0599	.4196	-.0216	.0016	7.97
31677	.200	2771.4	12.27	.5282	.0910	-.0741	.5355	-.0233	.0009	5.81
31678	.200	2786.4	14.39	.6376	.1415	-.0839	.6527	-.0214	.0014	4.51
31679	.201	2804.1	16.57	.7460	.1983	-.0958	.7735	-.0233	.0025	3.77
31680	.199	2765.2	18.69	.8434	.2594	-.1034	.8821	-.0246	.0011	3.25
31681	.200	2775.7	20.77	.9334	.3263	-.1120	.9885	-.0259	.0002	2.86
31682	.201	2815.4	22.96	1.0224	.4020	-.1216	1.0983	-.0287	.0009	2.54
31683	.200	2769.7	24.93	1.0910	.4735	-.1298	1.1889	-.0306	.0002	2.30
31684	.201	2794.1	.06	.0002	.0108	-.0085	.0002	.0108	.0007	.02

TEST 51 RUN 25

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31688	.200	2791.8	-.02	-.0016	.0110	-.0083	-.0016	.0110	.0006	-.15
31689	.200	2784.9	-.97	-.0401	.0113	-.0035	-.0403	.0107	.0008	-3.53
31690	.201	2793.6	-.02	-.0011	.0109	-.0082	-.0011	.0109	.0007	-.10
31691	.201	2798.4	1.98	.0806	.0116	-.0175	.0810	.0088	.0008	6.98
31692	.201	2807.9	3.97	.1615	.0151	-.0275	.1621	.0039	.0010	10.69
31693	.201	2805.1	6.00	.2418	.0217	-.0369	.2427	-.0037	.0008	11.16
31694	.201	2793.7	8.04	.3282	.0322	-.0480	.3295	-.0140	.0009	10.18
31695	.200	2779.4	10.03	.4173	.0533	-.0599	.4202	-.0202	.0015	7.83
31696	.200	2770.9	12.21	.5300	.0917	-.0757	.5374	-.0225	.0005	5.78
31697	.201	2801.2	14.32	.6343	.1391	-.0840	.6490	-.0220	.0008	4.56
31698	.200	2781.3	16.48	.7292	.1901	-.0922	.7531	-.0246	.0025	3.84
31699	.200	2790.3	18.61	.8249	.2503	-.0991	.8616	-.0261	.0033	3.30
31700	.200	2788.3	20.66	.9089	.3136	-.1068	.9611	-.0272	.0017	2.90
31701	.200	2792.4	22.83	1.0017	.3894	-.1179	1.0743	-.0298	.0020	2.57
31702	.200	2777.0	24.85	1.0839	.4677	-.1289	1.1601	-.0312	.0017	2.32
31703	.200	2791.8	-.00	.0002	.0108	-.0082	.0002	.0108	.0005	.02

TEST 51 RUN 26

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31706	.201	2801.7	-.02	-.0040	.0107	-.0077	-.0040	.0107	.0007	-.37
31707	.201	2795.1	-.94	-.0406	.0111	-.0036	-.0407	.0104	.0009	-3.67
31708	.201	2799.8	-.01	-.0021	.0107	-.0078	-.0021	.0107	.0007	-.19
31709	.201	2801.7	1.99	.0770	.0116	-.0164	.0774	.0089	.0009	6.65
31710	.200	2783.9	4.01	.1574	.0150	-.0260	.1580	.0040	.0011	10.49
31711	.200	2778.8	5.99	.2352	.0213	-.0352	.2361	-.0033	.0011	11.02
31712	.200	2775.2	8.05	.3210	.0318	-.0477	.3223	-.0134	.0011	10.10
31713	.200	2769.4	10.03	.4106	.0501	-.0612	.4130	-.0222	.0014	8.20
31714	.199	2763.7	12.18	.5088	.0822	-.0727	.5147	-.0270	.0010	6.19
31715	.200	2765.9	14.30	.6188	.1323	-.0834	.6323	-.0247	.0017	4.68
31716	.200	2784.5	16.48	.7328	.1885	-.0983	.7561	-.0271	.0033	3.89
31717	.200	2786.3	18.67	.8458	.2562	-.1105	.8833	-.0280	.0036	3.30
31718	.200	2775.1	20.74	.9510	.3282	-.1204	1.0056	-.0299	.0021	2.90
31719	.201	2792.9	22.93	1.0464	.4062	-.1314	1.1247	-.0324	.0014	2.57
31720	.200	2772.1	25.05	1.1303	.4906	-.1406	1.2317	-.0341	.0006	2.30
31721	.201	2801.7	-.01	-.0019	.0107	-.0079	-.0019	.0107	.0009	-.18

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 51 RUN 27

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31736	.200	2777.5	-.02	-.0037	.0110	-.0076	-.0037	.0110	.0008	-.34
31737	.200	2776.5	-.99	-.0421	.0118	-.0032	-.0423	.0110	.0009	-3.57
31738	.200	2785.3	-.03	-.0039	.0111	-.0074	-.0039	.0110	.0010	-.35
31739	.200	2792.2	1.99	.0771	.0114	-.0166	.0775	.0088	.0010	6.74
31740	.201	2805.1	3.97	.1580	.0146	-.0260	.1587	.0036	.0012	10.84
31741	.200	2784.6	5.99	.2381	.0207	-.0357	.2389	-.0043	.0011	11.50
31742	.200	2783.2	8.01	.3232	.0305	-.0473	.3243	-.0149	.0009	10.60
31743	.200	2782.6	9.99	.4162	.0507	-.0617	.4187	-.0223	.0012	8.20
31744	.200	2777.0	12.15	.5164	.0833	-.0750	.5224	-.0272	.0012	6.20
31745	.200	2780.7	14.26	.6278	.1332	-.0839	.6412	-.0256	.0028	4.71
31746	.200	2794.3	16.41	.7284	.1852	-.0941	.7511	-.0281	.0040	3.93
31747	.200	2773.2	18.56	.8307	.2477	-.1043	.8663	-.0297	.0040	3.35
31748	.199	2759.1	20.59	.9211	.3123	-.1134	.9721	-.0316	.0027	2.95
31749	.200	2785.0	22.81	1.0167	.3903	-.1251	1.0885	-.0345	.0029	2.61
31750	.201	2798.2	24.92	1.1075	.4740	-.1373	1.2041	-.0368	.0021	2.34
31751	.200	2778.7	-.03	-.0025	.0111	-.0076	-.0025	.0111	.0010	-.23

TEST 51 RUN 28

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31754	.201	2797.1	-.03	-.0036	.0105	-.0074	-.0036	.0105	.0009	-.34
31755	.200	2791.9	-.94	-.0399	.0110	-.0033	-.0401	.0104	.0010	-3.62
31756	.201	2798.5	-.01	-.0025	.0106	-.0074	-.0025	.0106	.0009	-.23
31757	.201	2808.5	2.00	.0762	.0115	-.0165	.0766	.0088	.0011	6.65
31758	.199	2765.4	3.98	.1569	.0147	-.0257	.1575	.0038	.0013	10.65
31759	.201	2796.4	5.98	.2376	.0212	-.0355	.2385	-.0037	.0011	11.21
31760	.200	2784.0	8.03	.3247	.0317	-.0483	.3260	-.0140	.0008	10.24
31761	.200	2782.6	10.00	.4145	.0498	-.0621	.4169	-.0229	.0012	8.32
31762	.200	2784.7	12.17	.5125	.0817	-.0736	.5182	-.0282	.0002	6.27
31763	.200	2784.7	14.27	.6190	.1310	-.0827	.6322	-.0256	.0017	4.73
31764	.200	2787.7	16.42	.7208	.1839	-.0945	.7433	-.0274	.0026	3.92
31765	.202	2823.9	18.64	.8379	.2521	-.1063	.8746	-.0289	.0034	3.32
31766	.200	2793.4	20.70	.9369	.3213	-.1173	.9900	-.0305	.0022	2.92
31767	.200	2790.8	22.89	1.0338	.4000	-.1285	1.1080	-.0335	.0025	2.58
31768	.201	2803.9	24.96	1.1161	.4813	-.1384	1.2150	-.0349	.0013	2.32
31769	.200	2795.0	-.02	-.0016	.0104	-.0074	-.0016	.0104	.0007	-.16

TEST 51 RUN 29

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31772	.200	2788.5	-.02	-.0017	.0106	-.0073	-.0017	.0106	.0011	-.16
31773	.200	2785.2	-.98	-.0412	.0110	-.0029	-.0414	.0103	.0008	-3.75
31774	.200	2790.9	-.01	-.0028	.0105	-.0073	-.0028	.0105	.0009	-.26
31775	.200	2791.8	2.01	.0771	.0114	-.0163	.0774	.0087	.0010	6.76
31776	.200	2791.9	3.97	.1562	.0148	-.0256	.1569	.0039	.0011	10.56
31777	.200	2795.2	5.97	.2350	.0211	-.0349	.2359	-.0035	.0009	11.16
31778	.200	2787.8	8.02	.3227	.0314	-.0481	.3240	-.0139	.0005	10.27
31779	.199	2761.5	10.00	.4115	.0489	-.0620	.4137	-.0234	.0011	8.42
31780	.200	2775.4	12.18	.5157	.0815	-.0781	.5213	-.0291	.0001	6.33
31781	.200	2774.0	14.26	.6173	.1289	-.0863	.6300	-.0272	.0018	4.79
31782	.199	2759.1	16.42	.7330	.1860	-.1012	.7557	-.0287	.0028	3.94
31783	.200	2783.4	18.59	.8443	.2510	-.1119	.8803	-.0313	.0021	3.36
31784	.199	2759.4	20.72	.9599	.3270	-.1230	1.0135	-.0337	.0011	2.94
31785	.200	2771.2	22.92	1.0371	.4000	-.1267	1.1110	-.0354	-.0006	2.59
31786	.200	2786.5	24.94	1.0977	.4718	-.1289	1.1943	-.0350	-.0019	2.33
31787	.200	2787.7	-.01	-.0027	.0105	-.0076	-.0027	.0105	.0010	-.26

TEST 51 RUN 30

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31790	.200	2783.1	-.02	-.0001	.0108	-.0074	-.0001	.0108	.0008	-.01
31791	.200	2784.9	-.97	-.0391	.0113	-.0030	-.0393	.0106	.0007	-3.47
31792	.201	2815.9	-.01	-.0007	.0109	-.0073	-.0007	.0109	.0010	-.07
31793	.200	2794.0	1.98	.0767	.0117	-.0162	.0770	.0090	.0011	6.55
31794	.201	2801.8	3.97	.1569	.0151	-.0253	.1575	.0042	.0011	10.40
31795	.200	2795.2	5.98	.2364	.0213	-.0346	.2374	-.0035	.0011	11.12
31796	.200	2786.3	8.01	.3223	.0313	-.0472	.3236	-.0139	.0008	10.30
31797	.200	2779.3	9.99	.4110	.0492	-.0615	.4133	-.0228	.0015	8.36
31798	.200	2784.9	12.15	.5154	.0828	-.0779	.5213	-.0275	.0003	6.22
31799	.200	2772.6	14.27	.6286	.1329	-.0896	.6420	-.0261	.0018	4.73
31800	.200	2772.0	16.46	.7622	.1958	-.1089	.7864	-.0282	.0018	3.89
31801	.200	2791.6	18.65	.8767	.2643	-.1170	.9152	-.0300	-.0002	3.32
31802	.200	2789.1	20.68	.9471	.3245	-.1163	1.0007	-.0310	.0000	2.92
31803	.201	2801.0	22.84	1.0226	.3953	-.1207	1.0958	-.0327	-.0006	2.59
31804	.200	2791.4	24.90	1.0815	.4664	-.1235	1.1774	-.0322	-.0000	2.32
31805	.200	2787.6	-.03	-.0002	.0108	-.0075	-.0002	.0108	.0008	-.02

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TEST 51 RUN 31

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31808	.200	2783.6	-.02	-.0038	.0109	-.0080	-.0038	.0109	.0007	-.35
31809	.200	2781.2	-.98	-.0433	.0115	-.0037	-.0435	.0108	.0009	-3.75
31810	.200	2785.3	-.04	-.0046	.0110	-.0078	-.0046	.0110	.0009	-.42
31811	.201	2803.9	2.01	.0784	.0115	-.0171	.0787	.0088	.0011	6.80
31812	.201	2814.8	3.98	.1559	.0147	-.0261	.1566	.0038	.0011	10.64
31813	.201	2805.8	5.99	.2366	.0207	-.0353	.2375	-.0041	.0009	11.43
31814	.200	2796.1	8.06	.3240	.0307	-.0475	.3251	-.0151	.0010	10.57
31815	.200	2789.2	10.03	.4176	.0506	-.0620	.4200	-.0229	.0017	8.25
31816	.200	2789.3	12.19	.5211	.0843	-.0772	.5271	-.0276	.0006	6.18
31817	.200	2793.8	14.28	.6285	.1307	-.0889	.6414	-.0284	.0025	4.81
31818	.200	2775.2	16.46	.7358	.1849	-.0993	.7581	-.0312	.0030	3.98
31819	.201	2798.2	18.62	.8372	.2473	-.1083	.8723	-.0329	.0020	3.39
31820	.201	2804.5	20.71	.9358	.3157	-.1184	.9870	-.0356	.0014	2.96
31821	.200	2793.0	22.90	1.0386	.3961	-.1296	1.1109	-.0393	.0016	2.62
31822	.200	2789.8	24.96	1.1183	.4753	-.1363	1.2144	-.0410	.0010	2.35
31823	.200	2786.9	-.00	-.0014	.0109	-.0082	-.0014	.0109	.0008	-.13

TEST 51 RUN 32

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31826	.201	2798.5	-.02	-.0009	.0110	-.0078	-.0009	.0110	.0009	-.08
31827	.200	2796.2	-.99	-.0398	.0115	-.0034	-.0400	.0108	.0008	-3.47
31828	.201	2797.7	-.06	-.0027	.0110	-.0077	-.0027	.0110	.0008	-.24
31829	.201	2808.4	2.02	.0822	.0119	-.0172	.0826	.0090	.0010	6.90
31830	.201	2813.7	3.95	.1597	.0156	-.0265	.1604	.0045	.0011	10.25
31831	.200	2794.7	5.98	.2429	.0230	-.0369	.2440	-.0024	.0012	10.56
31832	.200	2782.0	8.03	.3288	.0347	-.0486	.3304	-.0116	.0009	9.47
31833	.200	2796.0	10.00	.4095	.0510	-.0595	.4122	-.0208	.0010	8.03
31834	.200	2794.6	12.17	.5005	.0783	-.0695	.5057	-.0290	.0015	6.39
31836	.200	2784.8	14.23	.5951	.1203	-.0772	.6064	-.0296	.0012	4.95
31837	.201	2800.0	16.42	.6958	.1735	-.0866	.7165	-.0303	.0018	4.01
31838	.200	2783.3	18.55	.8013	.2371	-.0974	.8351	-.0302	.0020	3.38
31839	.201	2805.6	20.65	.8883	.3020	-.1036	.9377	-.0305	.0014	2.94
31840	.200	2793.7	22.77	.9740	.3736	-.1125	1.0427	-.0325	.0016	2.61
31841	.201	2820.0	24.84	1.0536	.4517	-.1225	1.1458	-.0327	.0016	2.33
31842	.201	2808.4	-.03	-.0014	.0109	-.0079	-.0014	.0109	.0008	-.13

TEST 51 RUN 33

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31855	.201	2808.4	-.02	.0009	.0106	-.0083	.0009	.0106	.0006	.08
31856	.201	2798.5	-.94	-.0367	.0111	-.0040	-.0369	.0105	.0008	-3.31
31857	.200	2786.2	-.00	.0010	.0106	-.0081	.0010	.0106	.0006	.09
31858	.201	2797.9	2.01	.0813	.0116	-.0174	.0816	.0087	.0009	7.02
31859	.200	2781.9	3.99	.1616	.0152	-.0271	.1623	.0039	.0009	10.61
31860	.200	2781.2	5.99	.2427	.0220	-.0372	.2437	-.0034	.0009	11.01
31861	.200	2785.1	8.09	.3348	.0332	-.0508	.3361	-.0143	.0010	10.08
31862	.200	2778.6	10.04	.4155	.0493	-.0620	.4177	-.0239	.0010	8.43
31863	.200	2784.7	12.22	.5101	.0773	-.0727	.5150	-.0324	.0015	6.60
31864	.200	2778.5	14.29	.6078	.1209	-.0798	.6188	-.0328	.0015	5.03
31865	.200	2769.3	16.44	.7101	.1737	-.0900	.7302	-.0343	.0017	4.09
31866	.200	2793.3	18.61	.8167	.2380	-.1008	.8500	-.0350	.0024	3.43
31867	.200	2782.4	20.67	.9123	.3059	-.1096	.9616	-.0359	.0018	2.98
31868	.201	2801.8	22.89	1.0162	.3886	-.1228	1.0891	-.0380	.0019	2.62
31869	.200	2769.1	24.88	1.1047	.4693	-.1339	1.1996	-.0390	.0010	2.35
31870	.201	2801.8	.02	.0027	.0105	-.0084	.0027	.0105	.0010	.26

TEST 51 RUN 34

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31873	.200	2782.2	-.02	.0023	.0105	-.0083	.0023	.0105	.0007	.22
31874	.200	2788.5	-.96	-.0355	.0109	-.0042	-.0357	.0103	.0008	-3.26
31875	.200	2788.5	-.02	.0014	.0105	-.0084	.0014	.0105	.0010	.14
31876	.201	2802.2	1.99	.0810	.0114	-.0173	.0813	.0085	.0011	7.13
31877	.201	2801.7	3.95	.1585	.0146	-.0261	.1591	.0037	.0010	10.85
31878	.200	2788.5	5.97	.2388	.0206	-.0352	.2396	-.0043	.0015	11.57
31879	.200	2781.6	8.02	.3290	.0316	-.0493	.3302	-.0146	.0010	10.42
31880	.200	2774.3	10.01	.4235	.0516	-.0650	.4260	-.0228	.0016	8.20
31881	.201	2803.0	12.17	.5236	.0834	-.0801	.5294	-.0289	.0009	6.28
31882	.200	2768.7	14.26	.6305	.1281	-.0935	.6426	-.0312	.0013	4.92
31883	.200	2770.4	16.44	.7465	.1879	-.1060	.7692	-.0310	-.0003	3.97
31884	.199	2762.0	18.63	.8676	.2588	-.1175	.9048	-.0318	-.0005	3.35
31885	.200	2769.5	20.67	.9298	.3170	-.1103	.9819	-.0316	-.0015	2.93
31886	.201	2799.7	22.87	1.0053	.3894	-.1174	1.0776	-.0320	.0003	2.58
31887	.201	2795.5	24.79	1.0759	.4613	-.1286	1.1702	-.0324	.0012	2.33
31888	.201	2801.7	-.04	.0010	.0105	-.0081	.0009	.0105	.0009	.09

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TEST 51 RUN 35

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31891	.201	2801.8	-.03	-.0015	.0110	-.0089	-.0015	.0110	.0009	-.13
31892	.200	2783.3	-.98	-.0386	.0117	-.0048	-.0388	.0110	.0009	-3.31
31893	.201	2796.5	.00	.0007	.0108	-.0092	.0007	.0108	.0010	.06
31894	.201	2795.1	2.00	.0824	.0114	-.0176	.0828	.0085	.0010	7.22
31895	.200	2781.9	3.98	.1601	.0146	-.0264	.1607	.0034	.0012	10.98
31896	.200	2778.3	5.97	.2380	.0203	-.0348	.2388	-.0045	.0015	11.71
31897	.200	2782.0	8.04	.3277	.0306	-.0482	.3287	-.0155	.0013	10.71
31898	.200	2783.6	10.03	.4218	.0517	-.0632	.4243	-.0226	.0016	8.16
31899	.200	2783.8	12.17	.5255	.0852	-.0786	.5316	-.0275	.0024	6.17
31900	.200	2792.1	14.30	.6421	.1338	-.0943	.6552	-.0289	.0023	4.80
31901	.200	2776.7	16.52	.7674	.1953	-.1086	.7913	-.0310	.0031	3.93
31902	.201	2796.5	18.65	.8568	.2532	-.1149	.8927	-.0341	.0013	3.38
31903	.201	2799.2	20.73	.9595	.3244	-.1241	1.0122	-.0362	.0011	2.96
31904	.200	2790.4	22.93	1.0371	.3971	-.1250	1.1098	-.0384	.0017	2.61
31905	.201	2801.1	24.82	1.0749	.4559	-.1226	1.1670	-.0375	.0013	2.36
31906	.200	2780.9	-.02	-.0008	.0108	-.0089	-.0008	.0108	.0010	-.07

TEST 51 RUN 36

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31909	.200	2778.6	-.02	.0005	.0106	-.0083	.0005	.0106	.0008	.05
31910	.200	2786.2	-.94	-.0362	.0110	-.0044	-.0364	.0104	.0008	-3.29
31911	.200	2791.8	-.04	-.0000	.0106	-.0083	-.0000	.0106	.0009	-.00
31912	.201	2806.7	2.01	.0823	.0114	-.0174	.0827	.0085	.0009	7.23
31913	.201	2797.9	4.00	.1619	.0147	-.0265	.1625	.0034	.0010	11.01
31914	.200	2791.8	5.98	.2377	.0206	-.0345	.2385	-.0043	.0013	11.54
31915	.200	2775.7	8.08	.3272	.0310	-.0476	.3283	-.0153	.0010	10.55
31916	.200	2789.2	10.02	.4167	.0507	-.0616	.4192	-.0225	.0016	8.22
31917	.200	2775.7	12.17	.5233	.0850	-.0772	.5295	-.0272	.0021	6.15
31918	.200	2775.6	14.32	.6407	.1351	-.0929	.6542	-.0276	.0017	4.74
31919	.201	2794.4	16.51	.7631	.1959	-.1073	.7873	-.0291	.0033	3.90
31920	.200	2770.1	18.62	.8546	.2539	-.1134	.8910	-.0323	.0024	3.37
31921	.200	2769.4	20.71	.9507	.3226	-.1214	1.0033	-.0345	.0021	2.95
31922	.200	2772.4	22.89	1.0229	.3926	-.1227	1.0951	-.0362	-.0006	2.61
31923	.200	2790.0	24.80	1.0667	.4539	-.1227	1.1587	-.0353	-.0015	2.35
31924	.200	2790.7	-.01	.0018	.0105	-.0085	.0018	.0105	.0009	.17

TEST 51 RUN 37

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31927	.201	2807.5	-.02	.0004	.0104	-.0080	.0004	.0104	.0009	.04
31928	.201	2802.2	-.96	-.0373	.0109	-.0038	-.0375	.0102	.0009	-3.43
31929	.201	2801.1	-.01	.0021	.0103	-.0083	.0021	.0103	.0009	.20
31930	.201	2803.5	2.00	.0818	.0112	-.0171	.0822	.0084	.0011	7.28
31931	.201	2808.0	3.96	.1590	.0145	-.0262	.1596	.0035	.0010	10.97
31932	.201	2795.1	5.96	.2378	.0203	-.0349	.2386	-.0045	.0015	11.73
31933	.200	2782.0	8.05	.3303	.0312	-.0498	.3314	-.0153	.0007	10.58
31934	.200	2783.4	10.02	.4219	.0507	-.0651	.4243	-.0235	.0014	8.32
31935	.200	2777.1	12.16	.5213	.0822	-.0791	.5269	-.0294	.0008	6.34
31936	.200	2773.6	14.28	.6295	.1275	-.0930	.6415	-.0317	.0012	4.94
31937	.200	2792.8	16.45	.7423	.1846	-.1048	.7642	-.0332	.0007	4.02
31938	.201	2796.3	18.62	.8439	.2466	-.1141	.8785	-.0356	.0017	3.42
31939	.200	2775.9	20.73	.9647	.3254	-.1263	1.0174	-.0372	.0017	2.96
31940	.200	2789.8	22.90	1.0411	.3984	-.1253	1.1141	-.0381	.0012	2.61
31941	.201	2796.6	24.84	1.0891	.4640	-.1275	1.1832	-.0364	.0012	2.35
31942	.201	2798.4	.00	.0028	.0103	-.0082	.0028	.0103	.0009	.28

TEST 51 RUN 38

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31945	.200	2785.4	-.02	.0010	.0107	-.0080	.0010	.0107	.0008	.09
31946	.200	2785.2	-.99	-.0382	.0112	-.0036	-.0384	.0105	.0008	-3.41
31947	.200	2791.8	-.04	-.0006	.0106	-.0079	-.0006	.0106	.0008	-.05
31948	.201	2798.4	1.98	.0817	.0116	-.0173	.0821	.0088	.0009	7.03
31949	.201	2797.8	4.00	.1622	.0152	-.0264	.1629	.0038	.0012	10.68
31950	.200	2782.0	5.94	.2419	.0218	-.0364	.2428	-.0033	.0012	11.09
31951	.200	2782.6	8.03	.3337	.0330	-.0506	.3351	-.0139	.0010	10.10
31952	.200	2781.2	10.01	.4173	.0494	-.0629	.4196	-.0238	.0012	8.45
31953	.200	2783.3	12.15	.5096	.0764	-.0753	.5142	-.0326	.0011	6.67
31954	.201	2794.1	14.23	.6052	.1160	-.0854	.6152	-.0363	.0015	5.22
31955	.200	2766.9	16.38	.7122	.1693	-.0968	.7311	-.0384	.0018	4.21
31956	.199	2747.2	18.56	.8220	.2353	-.1077	.8542	-.0385	.0020	3.49
31957	.200	2790.1	20.63	.9180	.3044	-.1156	.9664	-.0386	.0016	3.02
31958	.200	2785.4	22.82	1.0143	.3831	-.1262	1.0836	-.0402	.0013	2.65
31959	.201	2803.7	24.81	1.0867	.4582	-.1330	1.1787	-.0402	.0005	2.37
31960	.200	2788.5	-.02	.0012	.0107	-.0083	.0012	.0107	.0011	.11

TEST 51 RUN 39

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31975	.200	2784.2	-.03	-.0023	.0107	-.0079	-.0024	.0107	.0007	-.22
31976	.200	2781.9	-.97	-.0417	.0112	-.0038	-.0419	.0105	.0010	-3.71
31977	.200	2787.8	-.04	-.0035	.0107	-.0080	-.0035	.0107	.0006	-.33
31978	.201	2795.7	1.97	.0766	.0115	-.0172	.0770	.0089	.0009	6.63
31979	.201	2800.9	3.98	.1551	.0148	-.0266	.1557	.0040	.0010	10.45
31980	.201	2798.8	5.93	.2331	.0209	-.0356	.2340	-.0034	.0011	11.18
31981	.200	2786.8	8.06	.3260	.0317	-.0498	.3272	-.0143	.0006	10.29
31982	.200	2782.7	10.00	.4164	.0504	-.0645	.4189	-.0226	.0006	8.25
31983	.200	2773.1	12.14	.5190	.0837	-.0776	.5250	-.0273	.0018	6.20
31984	.199	2755.5	14.26	.6152	.1255	-.0872	.6272	-.0299	.0019	4.90
31985	.200	2764.0	16.40	.7129	.1763	-.0951	.7336	-.0322	.0017	4.04
31986	.200	2763.9	18.59	.8219	.2425	-.1031	.8563	-.0321	.0020	3.39
31987	.199	2752.4	20.71	.9344	.3165	-.1175	.9859	-.0344	.0004	2.95
31988	.200	2774.8	22.87	1.0353	.3973	-.1291	1.1083	-.0362	-.0007	2.61
31989	.201	2790.9	25.02	1.1222	.4799	-.1397	1.2199	-.0398	-.0004	2.34
31990	.201	2795.1	-.01	-.0018	.0108	-.0077	-.0018	.0108	.0008	-.16

Applied new transition strip.

TEST 51 RUN 40

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
31993	.200	2775.4	-.04	-.0077	.0132	-.0087	-.0077	.0132	.0007	-.58
31994	.200	2785.4	-.99	-.0464	.0143	-.0045	-.0467	.0135	.0011	-3.25
31995	.200	2785.3	-.05	-.0091	.0132	-.0090	-.0091	.0132	.0008	-.69
31996	.201	2798.5	1.96	.0733	.0130	-.0178	.0737	.0105	.0010	5.63
31997	.201	2805.0	3.97	.1550	.0154	-.0269	.1557	.0047	.0013	10.05
31998	.201	2807.4	5.92	.2321	.0210	-.0356	.2331	-.0030	.0009	11.04
31999	.201	2803.6	8.01	.3221	.0310	-.0483	.3233	-.0142	.0006	10.39
32000	.200	2789.2	10.03	.4185	.0518	-.0630	.4211	-.0219	.0005	8.08
32001	.200	2783.0	12.14	.5189	.0852	-.0752	.5252	-.0258	.0004	6.09
32002	.200	2765.3	14.26	.6238	.1288	-.0874	.6363	-.0288	.0012	4.84
32003	.199	2758.6	16.40	.7230	.1793	-.0967	.7442	-.0322	.0016	4.03
32004	.199	2750.0	18.57	.8309	.2448	-.1066	.8656	-.0325	.0028	3.39
32005	.200	2789.1	20.68	.9425	.3170	-.1202	.9937	-.0362	.0026	2.97
32006	.200	2766.6	22.87	1.0398	.3960	-.1304	1.1120	-.0392	.0010	2.63
32007	.199	2748.1	24.98	1.1244	.4755	-.1392	1.2200	-.0438	.0011	2.36
32008	.198	2718.8	-.03	-.0069	.0131	-.0086	-.0069	.0131	.0008	-.52

TEST 51 RUN 41

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32024	.201	2793.2	-.05	-.0161	.0127	-.0063	-.0161	.0127	.0007	-1.27
32025	.200	2785.4	-.99	-.0606	.0147	-.0004	-.0609	.0137	.0012	-4.11
32026	.201	2796.0	-.05	-.0167	.0127	-.0064	-.0167	.0127	.0012	-1.31
32027	.201	2803.0	1.98	.0720	.0121	-.0168	.0724	.0096	.0008	5.95
32028	.201	2796.9	3.96	.1526	.0151	-.0251	.1533	.0045	.0010	10.11
32029	.201	2796.0	5.94	.2317	.0210	-.0333	.2326	-.0031	.0008	11.05
32030	.200	2788.6	8.02	.3210	.0309	-.0445	.3222	-.0142	.0007	10.37
32031	.200	2785.6	10.03	.4188	.0473	-.0597	.4207	-.0264	.0008	8.86
32032	.200	2776.5	12.16	.5242	.0762	-.0759	.5285	-.0359	.0019	6.88
32033	.200	2763.8	14.27	.6301	.1180	-.0863	.6398	-.0409	.0028	5.34
32034	.200	2780.6	16.44	.7399	.1733	-.0967	.7587	-.0433	.0017	4.27
32035	.201	2794.3	18.68	.8703	.2529	-.1056	.9055	-.0392	.0023	3.44
32036	.202	2829.6	20.78	.9817	.3299	-.1176	1.0349	-.0399	.0065	2.98
32037	.201	2800.5	22.91	1.0505	.4037	-.1208	1.1248	-.0372	-.0006	2.60
32038	.200	2777.9	25.03	1.1291	.4839	-.1323	1.2278	-.0393	.0002	2.33
32039	.201	2795.2	-.02	-.0140	.0126	-.0066	-.0140	.0126	.0008	-1.12

0.89cm projection.

TEST 51 RUN 42

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32042	.200	2784.3	-.05	-.0149	.0126	-.0069	-.0149	.0125	.0008	-1.18
32043	.200	2776.7	-1.03	-.0592	.0145	-.0011	-.0594	.0134	.0011	-4.09
32044	.200	2784.3	-.08	-.0159	.0126	-.0068	-.0160	.0126	.0009	-1.26
32045	.201	2797.3	1.95	.0721	.0121	-.0170	.0725	.0096	.0007	5.97
32046	.201	2803.4	3.93	.1546	.0151	-.0253	.1553	.0045	.0009	10.21
32047	.201	2795.6	5.91	.2352	.0215	-.0340	.2361	-.0029	.0009	10.95
32048	.200	2781.7	8.00	.3245	.0319	-.0447	.3258	-.0136	.0008	10.19
32049	.201	2801.5	10.00	.4160	.0478	-.0587	.4180	-.0252	.0010	8.70
32050	.200	2784.6	12.14	.5268	.0794	-.0747	.5317	-.0332	.0014	6.64
32051	.200	2769.5	14.23	.6265	.1178	-.0867	.6363	-.0399	.0022	5.32
32052	.200	2763.0	16.38	.7300	.1662	-.0989	.7473	-.0464	.0017	4.39
32053	.200	2779.0	18.55	.8292	.2276	-.1045	.8585	-.0481	.0023	3.64
32054	.201	2805.3	20.65	.9360	.2981	-.1179	.9810	-.0510	.0027	3.14
32055	.201	2802.5	22.89	1.0574	.3882	-.1314	1.1251	-.0537	.0021	2.72
32056	.201	2789.3	25.02	1.1453	.4738	-.1363	1.2382	-.0550	.0004	2.42
32057	.200	2782.9	-.07	-.0148	.0124	-.0069	-.0148	.0124	.0010	-1.19

0.89cm projection.

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 51 RUN 43

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32070	.201	2790.3	-.04	-.0124	.0117	-.0063	-.0124	.0117	.0007	-1.05
32071	.201	2788.6	-.97	-.0540	.0132	-.0004	-.0543	.0123	.0004	-4.09
32072	.201	2795.1	-.05	-.0141	.0118	-.0059	-.0141	.0118	.0005	-1.20
32073	.201	2801.7	1.98	.0735	.0119	-.0166	.0739	.0094	.0007	6.18
32074	.201	2795.1	3.97	.1540	.0151	-.0254	.1547	.0044	.0008	10.18
32075	.200	2784.1	5.94	.2325	.0214	-.0341	.2334	-.0028	.0006	10.87
32076	.201	2787.8	8.04	.3242	.0320	-.0457	.3255	-.0137	.0005	10.15
32077	.200	2779.1	10.04	.4187	.0491	-.0607	.4208	-.0246	.0002	8.53
32078	.200	2774.8	12.17	.5228	.0805	-.0757	.5280	-.0315	.0018	6.50
32079	.200	2783.7	14.26	.6215	.1214	-.0852	.6322	-.0354	.0024	5.12
32080	.200	2768.4	16.42	.7248	.1714	-.0952	.7437	-.0405	.0022	4.23
32061	.200	2766.1	18.57	.8218	.2332	-.1020	.8532	-.0406	.0011	3.52
32082	.200	2772.9	20.68	.9318	.3060	-.1159	.9798	-.0427	.0024	3.04
32083	.200	2773.7	22.88	1.0391	.3899	-.1295	1.1089	-.0448	.0014	2.66
32084	.200	2775.4	25.03	1.1388	.4794	-.1418	1.2347	-.0474	.0003	2.38
32085	.200	2784.5	-.02	-.0119	.0117	-.0062	-.0119	.0117	.0003	-1.01

0.89cm projection.

TEST 51 RUN 44

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32104	.200	2758.9	-.03	-.0030	.0109	-.0083	-.0030	.0109	.0007	-.28
32105	.200	2768.5	-.98	-.0413	.0113	-.0040	-.0415	.0106	.0008	-3.67
32106	.200	2773.1	-.02	-.0025	.0109	-.0083	-.0025	.0109	.0007	-.23
32107	.201	2786.2	1.97	.0772	.0117	-.0174	.0775	.0090	.0010	6.59
32108	.201	2794.3	3.96	.1568	.0150	-.0266	.1574	.0041	.0006	10.45
32109	.201	2787.1	5.94	.2347	.0211	-.0355	.2357	-.0033	.0007	11.10
32110	.201	2781.9	8.03	.3249	.0317	-.0483	.3261	-.0140	.0008	10.26
32111	.200	2772.6	9.99	.4104	.0508	-.0603	.4130	-.0211	.0018	8.07
32112	.200	2765.7	12.16	.5186	.0869	-.0752	.5253	-.0244	.0019	5.97
32113	.199	2745.7	14.26	.6259	.1326	-.0878	.6393	-.0257	.0017	4.72
32114	.200	2767.9	16.44	.7408	.1893	-.1008	.7641	-.0281	-.0005	3.91
32115	.200	2756.8	18.62	.8441	.2537	-.1085	.8809	-.0291	.0008	3.33
32116	.201	2784.8	20.72	.9508	.3266	-.1204	1.0049	-.0309	-.0001	2.91
32117	.200	2764.6	22.89	1.0410	.4026	-.1289	1.1156	-.0340	.0002	2.59
32118	.201	2783.7	24.97	1.1136	.4782	-.1339	1.2113	-.0366	.0009	2.33
32119	.200	2770.8	-.03	-.0013	.0109	-.0085	-.0013	.0109	.0006	-.12

TEST 51 RUN 45

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32122	.199	2750.6	-.02	-.0021	.0105	-.0083	-.0021	.0105	.0007	-.20
32123	.201	2781.7	-.98	-.0394	.0109	-.0042	-.0395	.0102	.0012	-3.61
32124	.201	2783.0	-.02	-.0019	.0105	-.0083	-.0019	.0105	.0009	-.18
32125	.201	2781.7	1.97	.0769	.0114	-.0176	.0773	.0088	.0008	6.73
32126	.201	2785.0	3.96	.1568	.0147	-.0268	.1575	.0039	.0008	10.65
32127	.201	2785.1	5.92	.2332	.0205	-.0358	.2341	-.0037	.0008	11.37
32128	.200	2777.9	8.05	.3266	.0314	-.0502	.3278	-.0146	.0006	10.40
32129	.200	2777.7	10.03	.4181	.0498	-.0650	.4204	-.0238	.0015	8.40
32130	.200	2764.5	12.16	.5233	.0848	-.0796	.5294	-.0273	.0016	6.17
32131	.200	2780.0	14.28	.6259	.1307	-.0885	.6388	-.0277	.0031	4.79
32132	.200	2758.2	16.43	.7368	.1863	-.1011	.7595	-.0297	.0025	3.95
32133	.200	2755.8	18.62	.8548	.2561	-.1112	.8919	-.0302	.0017	3.34
32134	.200	2769.6	20.74	.9663	.3333	-.1217	1.0218	-.0305	.0008	2.90
32135	.200	2763.3	22.90	1.0505	.4083	-.1287	1.1266	-.0327	.0013	2.57
32136	.201	2780.6	24.99	1.1235	.4852	-.1362	1.2233	-.0348	.0011	2.32
32137	.200	2774.7	-.02	-.0006	.0104	-.0083	-.0006	.0104	.0006	-.06

TEST 51 RUN 46

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32152	.201	2779.8	-.03	-.0038	.0105	-.0074	-.0039	.0105	.0009	-.37
32153	.200	2775.0	-.95	-.0394	.0109	-.0032	-.0396	.0103	.0009	-3.60
32154	.200	2775.0	-.01	-.0037	.0106	-.0073	-.0037	.0106	.0007	-.35
32155	.201	2781.0	2.00	.0774	.0115	-.0169	.0777	.0088	.0007	6.73
32156	.200	2773.2	3.97	.1547	.0147	-.0262	.1554	.0040	.0008	10.52
32157	.200	2772.8	5.94	.2327	.0206	-.0352	.2336	-.0036	.0009	11.31
32158	.200	2768.6	8.02	.3229	.0311	-.0487	.3241	-.0143	.0004	10.38
32159	.200	2765.7	10.00	.4124	.0485	-.0624	.4146	-.0238	.0018	8.50
32160	.200	2753.6	12.19	.5189	.0829	-.0779	.5247	-.0285	.0017	6.26
32161	.200	2758.5	14.26	.6186	.1278	-.0877	.6311	-.0285	.0027	4.84
32162	.200	2750.7	16.41	.7231	.1811	-.0973	.7448	-.0306	.0018	3.99
32163	.200	2753.2	18.57	.8302	.2457	-.1058	.8653	-.0315	.0017	3.38
32164	.200	2769.2	20.66	.9427	.3202	-.1191	.9951	-.0330	.0004	2.94
32165	.201	2779.1	22.92	1.0459	.4037	-.1303	1.1206	-.0355	.0000	2.59
32166	.201	2789.6	24.99	1.1241	.4808	-.1397	1.2220	-.0391	.0004	2.34
32167	.200	2775.0	-.01	-.0019	.0106	-.0075	-.0019	.0106	.0006	-.18

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 51 RUN 47

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32170	.200	2761.9	-.04	-.0072	.0123	-.0090	-.0072	.0123	.0011	-.59
32171	.201	2789.4	-.98	-.0458	.0133	-.0050	-.0460	.0125	.0008	-3.45
32172	.200	2768.5	-.02	-.0080	.0121	-.0091	-.0080	.0121	.0009	-.65
32173	.200	2775.9	1.99	.0761	.0123	-.0176	.0765	.0096	.0009	6.20
32174	.201	2779.7	3.96	.1540	.0152	-.0265	.1547	.0045	.0010	10.15
32175	.200	2775.1	5.95	.2357	.0210	-.0354	.2366	-.0035	.0009	11.22
32176	.200	2764.9	8.02	.3231	.0311	-.0473	.3242	-.0143	.0009	10.40
32177	.200	2764.3	10.01	.4117	.0499	-.0595	.4141	-.0224	.0021	8.25
32178	.200	2759.4	12.15	.5189	.0843	-.0759	.5250	-.0268	.0014	6.16
32179	.200	2759.6	14.25	.6167	.1256	-.0873	.6287	-.0300	.0021	4.91
32180	.199	2737.3	16.41	.7243	.1787	-.0992	.7453	-.0332	.0023	4.05
32181	.200	2764.7	18.58	.8332	.2433	-.1102	.8672	-.0350	.0035	3.43
32182	.200	2773.8	20.64	.9293	.3108	-.1208	.9792	-.0368	.0028	2.99
32183	.200	2772.5	22.81	1.0238	.3873	-.1315	1.0939	-.0400	.0015	2.64
32184	.201	2782.7	24.94	1.1001	.4633	-.1379	1.1929	-.0437	.0007	2.37
32185	.200	2761.9	-.01	-.0050	.0122	-.0092	-.0050	.0122	.0007	-.41

TEST 51 RUN 48

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32188	.200	2763.7	-.03	-.0044	.0119	-.0095	-.0044	.0119	.0006	-.37
32189	.200	2759.6	-.96	-.0434	.0129	-.0057	-.0436	.0122	.0006	-3.36
32190	.201	2780.8	-.03	-.0057	.0119	-.0096	-.0058	.0119	.0007	-.48
32191	.200	2773.7	1.97	.0758	.0121	-.0180	.0762	.0095	.0009	6.26
32192	.200	2767.4	3.96	.1583	.0150	-.0269	.1590	.0040	.0009	10.55
32193	.200	2771.8	5.96	.2373	.0210	-.0359	.2382	-.0037	.0009	11.29
32194	.200	2764.3	8.03	.3242	.0311	-.0478	.3253	-.0144	.0008	10.42
32195	.200	2765.8	9.99	.4102	.0491	-.0596	.4125	-.0228	.0018	8.35
32196	.200	2771.2	12.13	.5169	.0834	-.0753	.5229	-.0271	.0016	6.20
32197	.200	2757.1	14.25	.6156	.1237	-.0877	.6271	-.0316	.0015	4.98
32198	.200	2757.0	16.40	.7237	.1768	-.1000	.7441	-.0347	.0019	4.09
32199	.200	2762.1	18.54	.8217	.2363	-.1085	.8542	-.0373	.0027	3.48
32200	.200	2755.3	20.60	.9107	.3006	-.1139	.9582	-.0391	.0022	3.03
32201	.201	2801.8	22.80	.9936	.3715	-.1197	1.0599	-.0425	.0000	2.67
32202	.200	2761.4	24.84	1.0623	.4420	-.1288	1.1497	-.0451	.0005	2.40
32203	.201	2778.4	-.04	-.0031	.0118	-.0100	-.0031	.0118	.0011	-.26

TEST 51 RUN 49

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32206	.200	2774.5	-.03	-.0028	.0105	-.0077	-.0028	.0105	.0008	-.26
32207	.200	2765.1	-.94	-.0402	.0110	-.0034	-.0404	.0103	.0007	-3.67
32208	.200	2775.0	-.02	-.0033	.0106	-.0077	-.0033	.0106	.0007	-.31
32209	.200	2772.5	2.00	.0779	.0115	-.0169	.0782	.0088	.0008	6.77
32210	.200	2768.6	3.97	.1568	.0147	-.0263	.1575	.0038	.0011	10.63
32211	.200	2768.5	5.95	.2350	.0208	-.0352	.2358	-.0037	.0009	11.32
32212	.200	2764.6	8.02	.3226	.0314	-.0485	.3238	-.0139	.0007	10.27
32213	.201	2793.3	10.03	.4183	.0508	-.0640	.4208	-.0228	.0016	8.24
32214	.200	2770.2	12.15	.5211	.0841	-.0797	.5271	-.0275	.0012	6.20
32215	.200	2755.2	14.24	.6173	.1255	-.0909	.6292	-.0303	.0018	4.92
32216	.200	2751.0	16.41	.7287	.1813	-.1033	.7503	-.0320	.0013	4.02
32217	.200	2776.5	18.62	.8610	.2563	-.1177	.8977	-.0321	.0008	3.36
32218	.199	2741.0	20.66	.9356	.3187	-.1139	.9879	-.0319	.0006	2.94
32219	.201	2796.1	22.81	.9908	.3834	-.1141	1.0619	-.0306	.0024	2.58
32220	.200	2773.7	24.87	1.0645	.4583	-.1266	1.1586	-.0320	.0019	2.32
32221	.201	2793.4	.01	-.0004	.0105	-.0081	-.0004	.0105	.0008	-.04

TEST 51 RUN 50

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32224	.200	2769.1	-.02	-.0013	.0103	-.0081	-.0013	.0103	.0008	-.12
32225	.200	2765.1	-.97	-.0398	.0107	-.0035	-.0400	.0101	.0007	-3.71
32226	.200	2768.4	-.03	-.0025	.0104	-.0081	-.0025	.0104	.0008	-.24
32227	.200	2776.2	1.95	.0768	.0112	-.0174	.0772	.0086	.0011	6.88
32228	.201	2781.6	3.95	.1550	.0145	-.0266	.1556	.0037	.0009	10.72
32229	.201	2786.0	5.92	.2318	.0201	-.0351	.2326	-.0039	.0008	11.51
32230	.200	2768.5	8.01	.3210	.0300	-.0480	.3221	-.0150	.0007	10.69
32231	.200	2762.6	9.98	.4108	.0491	-.0618	.4131	-.0229	.0010	8.37
32232	.200	2756.3	12.13	.5179	.0848	-.0736	.5242	-.0259	.0021	6.11
32233	.200	2763.9	14.26	.6349	.1319	-.0890	.6478	-.0286	.0024	4.81
32234	.200	2760.8	16.44	.7526	.1908	-.1022	.7759	-.0301	-.0002	3.94
32235	.200	2758.4	18.60	.8448	.2557	-.1053	.8822	-.0270	.0036	3.30
32236	.200	2760.9	20.68	.9504	.3282	-.1180	1.0051	-.0286	.0014	2.90
32237	.201	2778.1	22.90	1.0474	.4087	-.1282	1.1239	-.0311	.0009	2.56
32238	.200	2771.8	24.94	1.1156	.4824	-.1360	1.2150	-.0331	.0012	2.31
32239	.200	2764.4	-.02	-.0016	.0103	-.0080	-.0016	.0103	.0008	-.15

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 51 RUN 51

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32242	.200	2768.4	-.02	-.0011	.0104	-.0081	-.0011	.0104	.0009	-.11
32243	.200	2763.1	-.98	-.0402	.0108	-.0037	-.0403	.0101	.0007	-3.72
32244	.201	2788.2	-.03	-.0024	.0103	-.0078	-.0024	.0103	.0007	-.24
32245	.200	2771.7	1.99	.0788	.0113	-.0176	.0791	.0086	.0010	6.96
32246	.200	2775.2	3.96	.1561	.0146	-.0266	.1568	.0038	.0008	10.67
32247	.200	2771.8	5.94	.2329	.0205	-.0355	.2338	-.0037	.0010	11.35
32248	.200	2758.6	8.01	.3220	.0306	-.0486	.3231	-.0146	.0007	10.54
32249	.200	2762.5	9.98	.4092	.0474	-.0620	.4113	-.0242	.0015	8.63
32250	.200	2753.5	12.15	.5117	.0799	-.0763	.5170	-.0296	.0015	6.41
32251	.200	2751.8	14.22	.6152	.1228	-.0888	.6265	-.0321	.0016	5.01
32252	.200	2749.7	16.43	.7533	.1879	-.1075	.7757	-.0328	.0038	4.01
32253	.200	2760.1	18.62	.8550	.2570	-.1091	.8923	-.0295	.0002	3.33
32254	.200	2772.8	20.67	.9424	.3249	-.1171	.9965	-.0287	.0017	2.90
32255	.201	2786.8	22.90	1.0427	.4074	-.1281	1.1190	-.0305	.0012	2.56
32256	.201	2780.3	24.95	1.1166	.4829	-.1373	1.2161	-.0331	.0006	2.31
32257	.200	2775.0	-.03	.0003	.0104	-.0080	.0003	.0104	.0009	.03

TEST 51 RUN 52

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32260	.200	2775.0	-.02	-.0008	.0104	-.0084	-.0008	.0104	.0009	-.07
32261	.200	2765.3	-.94	-.0385	.0109	-.0039	-.0386	.0103	.0008	-3.53
32262	.200	2767.2	.01	-.0008	.0105	-.0085	-.0008	.0105	.0008	-.07
32263	.200	2772.2	1.99	.0789	.0115	-.0179	.0792	.0088	.0009	6.85
32264	.201	2763.6	3.97	.1560	.0149	-.0267	.1567	.0041	.0007	10.44
32265	.201	2778.4	5.97	.2347	.0210	-.0360	.2356	-.0035	.0010	11.16
32266	.200	2772.2	8.02	.3211	.0312	-.0491	.3223	-.0139	.0005	10.29
32267	.201	2775.8	10.02	.4099	.0483	-.0630	.4120	-.0237	.0014	8.48
32268	.200	2772.3	12.15	.5101	.0788	-.0773	.5153	-.0303	.0017	6.47
32269	.200	2761.6	14.26	.6130	.1209	-.0901	.6239	-.0338	.0023	5.07
32270	.200	2754.5	16.43	.7448	.1837	-.1081	.7664	-.0345	.0043	4.05
32271	.200	2748.9	18.65	.8685	.2581	-.1180	.9055	-.0331	-.0050	3.36
32272	.201	2776.9	20.67	.9307	.3199	-.1145	.9837	-.0292	-.0008	2.91
32273	.200	2773.6	22.87	1.0349	.4020	-.1285	1.1098	-.0318	.0005	2.57
32274	.201	2786.1	24.94	1.1009	.4743	-.1370	1.1983	-.0341	.0008	2.32
32275	.201	2783.1	-.00	.0004	.0105	-.0085	.0004	.0105	.0010	.04

TEST 51 RUN 53

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32278	.199	2742.8	-.02	-.0016	.0106	-.0082	-.0016	.0106	.0007	-.15
32279	.200	2764.1	-.99	-.0381	.0113	-.0037	-.0383	.0106	.0010	-3.37
32280	.200	2765.1	-.02	-.0014	.0108	-.0082	-.0014	.0108	.0006	-.13
32281	.201	2788.3	1.98	.0760	.0117	-.0176	.0764	.0091	.0009	6.48
32282	.200	2773.1	3.97	.1549	.0155	-.0268	.1556	.0047	.0009	10.03
32283	.201	2776.1	5.97	.2332	.0217	-.0359	.2342	-.0026	.0009	10.72
32284	.200	2773.5	8.02	.3210	.0324	-.0492	.3224	-.0127	.0009	9.91
32285	.201	2779.0	9.98	.4008	.0475	-.0604	.4030	-.0226	.0014	8.43
32286	.200	2761.9	12.13	.4923	.0733	-.0706	.4967	-.0318	.0025	6.72
32287	.200	2761.3	14.23	.5970	.1130	-.0853	.6065	-.0373	.0013	5.28
32288	.199	2746.7	16.40	.7264	.1714	-.1074	.7452	-.0406	.0012	4.24
32289	.201	2786.8	18.67	.8857	.2571	-.1318	.9214	-.0399	.0012	3.44
32290	.200	2758.0	20.57	.8822	.2999	-.1018	.9313	-.0292	-.0058	2.94
32291	.201	2776.8	22.87	1.0302	.3998	-.1290	1.1045	-.0321	-.0009	2.58
32292	.200	2766.3	24.89	1.0868	.4669	-.1351	1.1824	-.0338	-.0007	2.33
32293	.201	2783.9	.00	-.0005	.0106	-.0083	-.0005	.0106	.0007	-.05

TEST 51 RUN 54

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32306	.201	2778.1	-.02	-.0038	.0107	-.0080	-.0038	.0107	.0007	-.35
32307	.201	2780.5	-.93	-.0407	.0112	-.0035	-.0409	.0106	.0006	-3.62
32309	.201	2788.2	.01	-.0040	.0107	-.0079	-.0040	.0107	.0007	-.38
32310	.201	2776.0	2.00	.0770	.0118	-.0175	.0774	.0091	.0008	6.53
32311	.201	2777.9	3.98	.1536	.0154	-.0265	.1543	.0047	.0009	9.98
32312	.201	2781.9	5.93	.2306	.0217	-.0357	.2316	-.0022	.0009	10.61
32313	.200	2772.2	8.03	.3183	.0325	-.0489	.3197	-.0123	.0008	9.81
32314	.200	2759.1	10.04	.4021	.0485	-.0605	.4044	-.0223	.0012	8.29
32315	.200	2748.5	12.14	.4908	.0740	-.0710	.4954	-.0308	.0018	6.63
32316	.199	2735.3	14.21	.5913	.1125	-.0848	.6008	-.0361	.0008	5.26
32317	.201	2787.5	16.43	.7278	.1735	-.1080	.7471	-.0395	.0010	4.19
32318	.200	2754.5	18.66	.8806	.2574	-.1305	.9167	-.0379	-.0003	3.42
32319	.200	2772.6	20.62	.8798	.2996	-.1000	.9290	-.0294	-.0033	2.94
32320	.200	2760.0	22.83	1.0023	.3862	-.1275	1.0736	-.0329	.0028	2.60
32321	.201	2779.3	25.00	1.0877	.4693	-.1354	1.1841	-.0344	.0020	2.32
32322	.201	2775.2	.01	-.0013	.0106	-.0080	-.0013	.0106	.0007	-.12

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 51 RUN 55

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32325	.200	2761.8	-.02	-.0021	.0111	-.0090	-.0021	.0111	.0010	-.19
32326	.200	2751.0	-.97	-.0412	.0115	-.0047	-.0414	.0108	.0008	-3.58
32327	.201	2781.6	-.02	-.0017	.0111	-.0089	-.0017	.0111	.0005	-.15
32328	.201	2784.9	1.95	.0769	.0122	-.0177	.0773	.0096	.0008	6.30
32329	.200	2770.1	3.97	.1578	.0158	-.0270	.1585	.0048	.0008	9.98
32330	.201	2772.5	5.92	.2354	.0222	-.0362	.2365	-.0022	.0006	10.59
32331	.200	2755.5	8.00	.3201	.0335	-.0475	.3217	-.0113	.0008	9.54
32332	.200	2749.5	9.99	.4109	.0536	-.0598	.4140	-.0185	.0020	7.66
32333	.199	2740.6	12.13	.5103	.0847	-.0726	.5167	-.0245	.0016	6.03
32334	.200	2751.9	14.26	.6214	.1268	-.0894	.6335	-.0301	.0009	4.90
32335	.199	2740.6	16.42	.7487	.1864	-.1084	.7708	-.0328	.0026	4.02
32336	.201	2774.9	18.65	.8742	.2591	-.1207	.9112	-.0341	-.0003	3.37
32337	.201	2779.6	20.61	.8857	.3021	-.1042	.9354	-.0290	.0041	2.93
32338	.201	2777.8	22.82	1.0166	.3890	-.1286	1.0879	-.0358	.0013	2.61
32339	.201	2773.8	24.95	1.0795	.4603	-.1355	1.1729	-.0379	-.0008	2.35
32340	.200	2768.2	-.04	-.0019	.0111	-.0088	-.0019	.0111	.0008	-.17

TEST 51 RUN 58

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32405	.201	2774.9	-.02	-.0015	.0103	-.0080	-.0015	.0103	.0009	-.15
32406	.200	2768.3	-.96	-.0384	.0106	-.0038	-.0385	.0099	.0009	-3.63
32407	.200	2768.5	-.02	-.0012	.0103	-.0080	-.0012	.0103	.0007	-.12
32408	.201	2786.4	1.97	.0772	.0113	-.0174	.0775	.0086	.0010	6.85
32409	.201	2782.2	3.97	.1566	.0146	-.0265	.1572	.0038	.0008	10.69
32410	.201	2788.9	5.92	.2341	.0203	-.0355	.2350	-.0039	.0010	11.52
32411	.201	2772.9	8.00	.3191	.0300	-.0476	.3201	-.0147	.0005	10.63
32412	.200	2759.5	10.01	.4325	.0580	-.0693	.4360	-.0181	.0009	7.46
32413	.200	2752.7	12.21	.5593	.1059	-.0821	.5690	-.0148	.0005	5.28
32414	.200	2746.2	14.32	.6635	.1497	-.0931	.6799	-.0191	-.0035	4.43
32415	.201	2778.0	16.46	.7462	.1990	-.0941	.7720	-.0205	.0026	3.75
32416	.200	2763.2	18.62	.8560	.2646	-.1070	.8957	-.0226	.0011	3.24
32417	.201	2774.4	20.66	.9481	.3309	-.1167	1.0039	-.0249	.0014	2.87
32418	.200	2752.9	22.85	1.0372	.4073	-.1261	1.1139	-.0274	.0013	2.55
32419	.199	2730.3	24.95	1.1104	.4833	-.1359	1.2107	-.0302	.0008	2.30
32420	.200	2759.6	-.04	-.0010	.0102	-.0080	-.0010	.0102	.0008	-.10

TEST 51 RUN 59

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32433	.201	2770.9	-.06	-.0183	.0139	-.0116	-.0183	.0139	.0009	-1.32
32434	.200	2761.5	-1.04	-.0670	.0174	-.0071	-.0673	.0162	.0010	-3.86
32435	.200	2766.7	-.07	-.0195	.0140	-.0115	-.0195	.0139	.0009	-1.40
32436	.201	2778.3	1.95	.0736	.0124	-.0207	.0740	.0098	.0009	5.95
32437	.201	2782.9	3.95	.1527	.0150	-.0272	.1533	.0045	.0008	10.16
32438	.201	2772.7	5.92	.2349	.0208	-.0349	.2358	-.0036	.0007	11.30
32439	.200	2766.2	8.02	.3253	.0310	-.0445	.3265	-.0147	.0008	10.49
32440	.200	2756.0	10.01	.4200	.0470	-.0583	.4218	-.0267	.0014	8.95
32441	.200	2756.4	12.16	.5382	.0800	-.0763	.5430	-.0351	.0013	6.72
32442	.200	2745.3	14.29	.6465	.1237	-.0858	.6570	-.0398	.0003	5.23
32443	.201	2773.0	16.49	.7608	.1784	-.0960	.7801	-.0449	.0003	4.27
32444	.201	2778.2	18.68	.8674	.2405	-.1033	.8988	-.0500	.0007	3.61
32445	.200	2759.9	20.69	.9646	.3067	-.1119	1.0108	-.0539	.0010	3.15
32446	.201	2771.5	22.92	1.0662	.3886	-.1208	1.1334	-.0573	.0012	2.74
32447	.200	2767.5	25.07	1.1638	.4765	-.1312	1.2561	-.0616	.0010	2.44
32448	.200	2757.6	-.09	-.0173	.0139	-.0119	-.0173	.0138	.0010	-1.25

0.76cm projection.

TEST 51 RUN 60

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32461	.201	2768.8	-.02	-.0028	.0109	-.0089	-.0028	.0109	.0009	-.25
32462	.200	2758.5	-.98	-.0456	.0120	-.0029	-.0458	.0112	.0008	-3.80
32463	.200	2759.2	-.02	-.0026	.0111	-.0088	-.0026	.0111	.0009	-.23
32464	.201	2774.8	1.99	.0790	.0118	-.0183	.0793	.0090	.0007	6.71
32465	.200	2760.4	3.98	.1607	.0154	-.0273	.1614	.0042	.0007	10.45
32466	.200	2765.9	5.94	.2382	.0216	-.0364	.2391	-.0032	.0006	11.02
32467	.200	2755.3	8.02	.3263	.0321	-.0486	.3276	-.0137	.0007	10.16
32468	.200	2764.6	10.02	.4209	.0505	-.0633	.4233	-.0235	.0006	8.33
32469	.201	2789.3	12.16	.5194	.0837	-.0743	.5254	-.0276	.0013	6.21
32470	.200	2750.9	14.24	.6168	.1269	-.0817	.6291	-.0288	-.0000	4.86
32471	.200	2760.5	16.40	.7224	.1805	-.0922	.7440	-.0308	.0001	4.00
32472	.200	2759.0	18.57	.8192	.2413	-.1003	.8534	-.0320	.0004	3.39
32473	.201	2785.2	20.62	.9125	.3075	-.1116	.9623	-.0336	.0006	2.97
32474	.201	2770.0	22.81	1.0132	.3877	-.1261	1.0842	-.0354	.0004	2.61
32475	.200	2765.5	24.92	1.0971	.4680	-.1392	1.1922	-.0378	.0004	2.34
32476	.200	2761.7	-.05	-.0044	.0112	-.0086	-.0044	.0112	.0010	-.39

0.76cm projection.

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 51 RUN 61

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CMS	CN	CA	CRM	L/D
32491	.200	2769.8	-.02	.0030	.0092	-.0092	.0030	.0092	.0007	.32
32492	.200	2762.4	-.97	-.0295	.0100	-.0073	-.0297	.0095	.0004	-2.94
32493	.200	2766.1	-.03	.0020	.0092	-.0091	.0019	.0092	.0005	.21
32494	.200	2776.7	1.96	.0673	.0095	-.0119	.0676	.0072	.0013	7.06
32495	.200	2780.8	3.95	.1589	.0152	-.0251	.1596	.0042	.0015	10.45
32496	.200	2762.4	5.96	.2625	.0298	-.0411	.2642	.0024	.0012	8.81
32497	.199	2755.2	8.06	.3756	.0534	-.0557	.3794	.0001	.0014	7.03
32498	.199	2752.2	10.10	.4820	.0837	-.0682	.4892	-.0021	.0012	5.76
32499	.199	2748.3	12.28	.5965	.1253	-.0786	.6095	-.0044	.0019	4.76
32500	.201	2783.9	14.43	.6899	.1720	-.0806	.7110	-.0053	.0019	4.01
32501	.200	2767.1	16.55	.7886	.2274	-.0897	.8207	-.0066	.0020	3.47
32502	.201	2794.9	18.74	.9014	.2974	-.1003	.9492	-.0079	.0027	3.03
32503	.201	2807.7	20.80	.9939	.3684	-.1109	1.0600	-.0086	.0026	2.70
32504	.200	2772.5	22.94	1.0727	.4435	-.1197	1.1607	-.0097	.0024	2.42
32505	.199	2752.6	25.03	1.1399	.5211	-.1277	1.2533	-.0102	.0020	2.19
32506	.200	2765.5	-.03	.0031	.0092	-.0090	.0030	.0092	.0006	.33

Wedge leading edge.

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 1

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7095	.201	2828.0	-.17	-.0555	.0137	.0207	-.0556	.0136	.0007	-4.04	.672
7096	.201	2828.8	-1.55	-.1050	.0152	.0266	-.1054	.0123	-.0000	-6.92	.592
7097	.201	2831.0	2.45	.0322	.0142	.0125	.0327	.0128	.0011	2.26	.170
7098	.201	2831.6	2.45	.0320	.0142	.0125	.0326	.0128	.0010	2.26	.169
7099	.201	2827.7	2.70	.0412	.0144	.0115	.0418	.0124	.0011	2.87	.240
7100	.201	2827.7	2.70	.0413	.0143	.0116	.0419	.0124	.0011	2.88	.240
7101	.201	2826.8	4.22	.0923	.0163	.0064	.0933	.0094	.0013	5.68	.378
7102	.200	2815.3	5.61	.1399	.0191	.0016	.1411	.0053	.0013	7.32	.416
7103	.201	2822.5	6.46	.1690	.0214	-.0015	.1704	.0022	.0012	7.91	.430
7104	.201	2829.5	7.87	.2178	.0260	-.0065	.2193	-.0041	.0012	8.38	.444
7105	.201	2823.3	9.18	.2659	.0322	-.0132	.2677	-.0107	.0013	8.27	.457
7106	.201	2821.3	10.41	.3231	.0416	-.0253	.3253	-.0175	.0021	7.76	.476
7107	.201	2821.8	10.41	.3239	.0417	-.0255	.3261	-.0176	.0021	7.77	.476
7108	.200	2809.4	11.50	.3744	.0543	-.0347	.3777	-.0214	.0003	6.89	.485
7109	.200	2805.0	12.72	.4524	.0831	-.0481	.4596	-.0185	.0041	5.44	.494
7110	.200	2801.0	13.91	.5034	.1043	-.0524	.5137	-.0197	.0034	4.82	.492
7111	.200	2805.7	16.47	.6141	.1610	-.0638	.6345	-.0197	.0009	3.81	.491
7112	.200	2802.4	16.47	.6143	.1610	-.0638	.6347	-.0197	.0009	3.81	.491
7113	.199	2787.9	21.24	.8188	.2902	-.0890	.8683	-.0262	.0005	2.82	.492
7114	.202	2855.3	27.43	1.0387	.5007	-.1240	1.1526	-.0341	.0003	2.07	.496
7115	.201	2822.7	.00	-.0534	.0131	.0213	-.0534	.0131	.0009	-4.08	.689

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL .

TEST TP	63 ALPHA DEGREES	CP101	RUN 1 CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7095	-.17	.0743	-.0125	-.0286	-.0441	-.0064	.0568	.2770	.0820	-.0183	-.0277	-.0267
7096	-1.55	.0303	-.0532	-.0700	-.1095	-.0754	-.0316	.2813	.1672	.0582	.0356	.0251
7097	2.45	.0799	.0635	.0691	.0709	.1324	.2015	.1876	-.1171	-.1767	-.1470	-.1215
7098	2.45	.0842	.0686	.0736	.0742	.1335	.2021	.1941	-.1158	-.1749	-.1473	-.1151
7099	2.70	.0883	.0734	.0867	.0875	.1507	.2147	.1699	-.1470	-.1884	-.1609	-.1308
7100	2.70	.0845	.0716	.0848	.0857	.1441	.2114	.1669	-.1443	-.1866	-.1550	-.1312
7101	4.22	.1207	.1140	.1304	.1361	.2011	.2568	-.0130	-.2845	-.2753	-.2341	-.1846
7102	5.61	.1574	.1538	.1713	.1843	.2444	.2771	-.2528	-.4383	-.3814	-.3367	-.2548
7103	6.46	.1709	.1762	.1944	.2125	.2672	.2833	-.4018	-.5351	-.4643	-.3888	-.2921
7104	7.87	.2035	.2082	.2305	.2511	.2962	.2765	-.7228	-.7051	-.5891	-.4499	-.3583
7105	9.18	.2283	.2415	.2657	.2797	.3138	.2497	-1.0768	-.9264	-.6616	-.5463	-.4107
7106	10.41	.2548	.2733	.2943	.3029	.3230	.2133	-1.4359	-1.1644	-.7952	-.6331	-.4711
7107	10.41	.2547	.2698	.2905	.3055	.3233	.2133	-1.4298	-1.1589	-.8046	-.6342	-.4637
7108	11.50	.2812	.2946	.3128	.3229	.3265	.1641	-1.8208	-1.3315	-.9294	-.7051	-.5192
7109	12.72	.3012	.3232	.3371	.3382	.3211	.0924	-2.2947	-1.5093	-1.0714	-.8147	-.5886
7110	13.91	.3252	.3464	.3624	.3501	.3063	.0129	-2.8423	-1.7142	-1.1921	-.9041	-.6663
7111	16.47	.3820	.4081	.4085	.3650	.2618	-.2142	-4.1009	-2.2134	-1.3956	-1.0959	-.9166
7112	16.47	.3826	.4041	.4046	.3633	.2584	-.2267	-4.0683	-2.2159	-1.4005	-1.0959	-.9133
7113	21.24	.4812	.4938	.4712	.3766	.1926	-.4881	-2.8632	-2.6691	-3.0381	-4.0789	-3.1054
7114	27.43	.5864	.5686	.5054	.2901	-.0308	-1.0624	-3.3313	-3.4037	-3.6977	-3.9314	-5.8868
7115	.00	.0746	-.0056	-.0157	-.0325	.0153	.0781	.2865	.0881	-.0128	-.0235	-.0298

TEST TP	63 ALPHA DEGREES	CP112	RUN 1 CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7095	-.17	-.0076	.0321	-.0196	-.0659	-.0614	-.0590	-.0406	.0252	.2418	.0138	-.0222
7096	-1.55	.0419	.0614	-.0258	-.0977	-.1097	-.1289	-.1240	-.0804	.2321	.1083	.0528
7097	2.45	-.0891	-.0072	.0346	.0263	.0479	.0749	.1085	.1791	.1616	-.1856	-.1978
7098	2.45	-.0852	-.0056	.0365	.0264	.0501	.0742	.1111	.1814	.1649	-.1930	-.1858
7099	2.70	-.0980	-.0131	.0417	.0322	.0583	.0864	.1250	.1902	.1536	-.2092	-.2054
7100	2.70	-.0926	-.0095	.0470	.0342	.0563	.0839	.1223	.1952	.1454	-.2177	-.2080
7101	4.22	-.1412	-.0417	.0808	.0797	.1092	.1410	.1848	.2357	-.0358	-.4008	-.3203
7102	5.61	-.1710	-.0752	.1119	.1182	.1509	.1861	.2257	.2535	-.2863	-.5525	-.4415
7103	6.46	-.2066	-.0968	.1288	.1378	.1756	.2125	.2430	.2525	-.4936	-.6700	-.5311
7104	7.87	-.2563	-.1308	.1575	.1743	.2105	.2421	.2651	.2346	-.8493	-.9040	-.6474
7105	9.18	-.3026	-.1620	.1847	.2040	.2393	.2659	.2757	.2010	-1.1961	-1.1107	-.7687
7106	10.41	-.3470	-.2015	.2087	.2288	.2621	.2811	.2725	.1496	-1.6861	-1.2956	-.9025
7107	10.41	-.3428	-.1961	.2083	.2335	.2622	.2822	.2734	.1412	-1.6682	-1.3011	-.9072
7108	11.50	-.3920	-.2340	.2287	.2571	.2855	.2946	.2683	.0908	-2.1250	-1.5032	-1.0089
7109	12.72	-.4665	-.3112	.2549	.2815	.3053	.2956	.2453	-.0008	-2.6919	-1.6984	-1.1309
7110	13.91	-.5369	-.3929	.2773	.3013	.3168	.2986	.2183	-.0969	-3.1750	-1.8208	-1.1554
7111	16.47	-.9410	-.6279	.3259	.3549	.3577	.3104	.1989	-.1984	-2.3853	-2.4558	-2.8826
7112	16.47	-.9309	-.6294	.3274	.3557	.3587	.3159	.1956	-.1922	-2.3926	-2.4605	-2.8724
7113	21.24	-1.1103	-.4243	.4110	.4206	.3903	.2906	.1188	-.4070	-1.9761	-2.1187	-2.2798
7114	27.43	-3.9291	-1.1946	.5085	.4929	.4048	.2250	-.0642	-.7817	-2.3035	-2.3464	-2.4105
7115	.00	-.0030	.0456	-.0270	-.0525	-.0442	-.0468	-.0230	.0406	.2537	.0203	-.0203

TEST TP	63 ALPHA DEGREES	CP123	RUN 1 CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7095	-.17	-.0198	-.0369	-.0469	-.0477	-.0726	-.1141	-.1182	-.0999	-.0908	.0099	.2112
7096	-1.55	.0541	.0211	-.0003	-.0063	-.0643	-.1490	-.1715	-.1824	-.1927	-.1220	.1627
7097	2.45	-.1540	-.1439	-.1358	-.0789	.0094	-.0202	.0001	.0359	.0751	.1726	.0688
7098	2.45	-.1474	-.1391	-.1331	-.0740	.0147	-.0145	.0019	.0368	.0775	.1742	.0628
7099	2.70	-.1638	-.1542	-.1401	-.0761	.0266	-.0035	.0161	.0535	.0907	.1883	.0269
7100	2.70	-.1641	-.1540	-.1426	-.0798	.0244	-.0081	.0168	.0551	.0969	.1927	.0262
7101	4.22	-.2604	-.2274	-.1935	-.1131	.0660	.0540	.0728	.1113	.1555	.2261	-.2278
7102	5.61	-.3437	-.2644	-.2359	-.1594	.0686	.0804	.1166	.1558	.2001	.2286	-.5536
7103	6.46	-.3724	-.2927	-.2698	-.1785	.0859	.1062	.1413	.1827	.2213	.2185	-.7609
7104	7.87	-.4765	-.3697	-.3221	-.2166	.1187	.1448	.1784	.2162	.2388	.1758	-1.2672
7105	9.18	-.5757	-.4477	-.3665	-.2543	.1444	.1753	.2067	.2375	.2416	.1125	-1.8392
7106	10.41	-.6758	-.5105	-.4254	-.3134	.1685	.2031	.2308	.2530	.2344	.0317	-2.4011
7107	10.41	-.6865	-.5189	-.4229	-.3236	.1658	.1990	.2288	.2510	.2332	.0265	-2.3139
7108	11.50	-.7623	-.5731	-.4916	-.3947	.1904	.2261	.2515	.2592	.2217	-.0690	-2.8954
7109	12.72	-.8474	-.6714	-.6120	-.5741	.2173	.2548	.2730	.2689	.2000	-.1796	-3.4126
7110	13.91	-.9378	-.8427	-.8497	-.6422	.2393	.2769	.2873	.2684	.1682	-.2752	-2.8595
7111	16.47	-3.0291	-1.9516	-.5219	-.3571	.2899	.3233	.3242	.2845	.1688	-.3059	-1.8908
7112	16.47	-3.0274	-1.9276	-.5724	-.3642	.2891	.3254	.3252	.2882	.1751	-.2897	-1.8433
7113	21.24	-2.2502	-2.9941	-3.5883	-1.3740	.3790	.3871	.3558	.2644	.0646	-.5789	-1.9215
7114	27.43	-2.3353	-2.2321	-2.6637	-2.3600	.4646	.4509	.3748	.2141	-.0690	-.8575	-1.7198
7115	.00	-.0117	-.0329	-.0438	-.0378	-.0638	-.1101	-.1051	-.0891	-.0744	.0253	.2189

TEST TP	63 ALPHA DEGREES	CP134	RUN 1 CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7095	-.17	.0097	-.0390	-.0967	-.0928	-.1049	-.1000	-.0625	-.1521	-.1703	-.1519	-.1244
7096	-1.55	.1024	.0461	-.0142	-.0236	-.0447	-.0523	-.0851	-.2048	-.2265	-.2416	-.2363
7097	2.45	-.2287	-.2248	-.2437	-.2037	-.1910	-.1616	-.0168	-.0518	-.0375	.0024	.0501
7098	2.45	-.2290	-.2113	-.2394	-.1999	-.1882	-.1573	-.0114	-.0436	-.0322	.0099	.0550
7099	2.70	-.2615	-.2360	-.2606	-.2150	-.1969	-.1578	-.0047	-.0395	-.0184	.0248	.0708
7100	2.70	-.2472	-.2316	-.2568	-.2132	-.1945	-.1599	-.0054	-.0347	-.0176	.0226	.0761
7101	4.22	-.4420	-.3702	-.3718	-.2886	-.2648	-.2029	.0326	.0116	.0362	.0888	.1399
7102	5.61	-.6481	-.5136	-.4842	-.3419	-.3301	-.2426	.0578	.0541	.0865	.1423	.1859
7103	6.46	-.7832	-.5789	-.5534	-.3814	-.3547	-.2596	.0810	.0818	.1135	.1658	.2013
7104	7.87	-1.0600	-.6970	-.6859	-.4693	-.4174	-.3054	.1088	.1192	.1561	.1975	.2189
7105	9.18	-1.2701	-.8301	-.7836	-.5406	-.4628	-.3413	.1344	.1505	.1837	.2203	.2209
7106	10.41	-1.4442	-.9770	-.8874	-.5993	-.5111	-.4069	.1523	.1786	.2087	.2334	.2131
7107	10.41	-1.4477	-.9795	-.8858	-.6012	-.5108	-.4078	.1537	.1776	.2053	.2317	.2117
7108	11.50	-1.6482	-1.0619	-.9562	-.6639	-.5787	-.5140	.1743	.2036	.2306	.2424	.1935
7109	12.72	-1.7643	-1.1544	-1.0078	-.7564	-.7030	-.7697	.1970	.2344	.2528	.2518	.1777
7110	13.91	-1.6788	-1.3381	-1.1633	-.8579	-.7482	-.6506	.2191	.2562	.2708	.2539	.1625
7111	16.47	-1.7565	-1.8604	-1.9849	-2.8695	-2.8911	-.8872	.2629	.2971	.3036	.2677	.1624
7112	16.47	-1.7438	-1.8607	-1.9867	-2.8685	-2.9143	-.9054	.2626	.2961	.3018	.2694	.1520
7113	21.24	-1.8829	-1.8775	-1.9926	-1.8851	-1.8461	-2.4649	.3282	.3566	.3344	.2595	.0904
7114	27.43	-1.7374	-1.7979	-1.8743	-1.7605	-1.7595	-1.9879	.4044	.4120	.3558	.2165	-.0243
7115	.00	.0081	-.0423	-.0953	-.0894	-.0987	-.0907	-.0850	-.1366	-.1469	-.1389	-.1034

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 1

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7095	-.17	-.0519	.2618	.0033	-.0483	-.0798	-.0969	-.1121	-.0960	-.0752	-.0595	-.0892
7096	-1.55	-.1959	.1928	.0915	.0380	-.0056	-.0415	-.0626	-.0636	-.0620	-.0633	-.0742
7097	2.45	.1346	.2061	-.2541	-.2585	-.2566	-.2300	-.2185	-.1601	-.1027	-.0844	-.1057
7098	2.45	.1347	.2018	-.2494	-.2529	-.2521	-.2288	-.2214	-.1605	-.1035	-.0838	-.1060
7099	2.70	.1463	.1868	-.2931	-.2811	-.2781	-.2421	-.2301	-.1688	-.1077	-.0878	-.1110
7100	2.70	.1436	.1862	-.3011	-.2865	-.2722	-.2415	-.2318	-.1681	-.1027	-.0817	-.1067
7101	4.22	.1889	-.0243	-.4914	-.4261	-.3946	-.3258	-.2950	-.2026	-.1186	-.0938	-.1113
7102	5.61	.1972	-.3304	-.7054	-.5888	-.4858	-.3901	-.3620	-.2502	-.1337	-.1065	-.1236
7103	6.46	.1830	-.5473	-.8708	-.6454	-.5466	-.4434	-.3949	-.2739	-.1435	-.1176	-.1318
7104	7.87	.1368	-.9970	-1.1689	-.7989	-.6715	-.5266	-.4567	-.3117	-.1580	-.1286	-.1382
7105	9.18	.0665	-1.4759	-1.3006	-.9676	-.7940	-.6082	-.5118	-.3557	-.1883	-.1520	-.1582
7106	10.41	-.0265	-2.0091	-1.5070	-1.1012	-.8797	-.6568	-.5586	-.4458	-.1713	-.1204	-.1422
7107	10.41	-.0159	-1.9521	-1.5120	-1.1081	-.8851	-.6551	-.5562	-.4546	-.1719	-.1254	-.1401
7108	11.50	-.1220	-2.4394	-1.6504	-1.1258	-.9060	-.7502	-.6945	-.6869	-.1662	-.1386	-.1575
7109	12.72	-.2019	-2.2360	-1.6370	-1.3427	-1.1273	-.8354	-.7145	-.5374	-.3867	-.2984	-.2811
7110	13.91	-.2624	-2.1601	-1.6626	-1.5246	-1.3769	-1.0865	-.9407	-.6065	-.3706	-.3049	-.2871
7111	16.47	-.2924	-1.6016	-1.3340	-1.3231	-1.3331	-1.3851	-1.4318	-1.8386	-.2662	-.1923	-.2204
7112	16.47	-.2921	-1.6230	-1.3383	-1.3276	-1.3559	-1.4011	-1.4259	-1.8559	-.2655	-.1749	-.2278
7113	21.24	-.4527	-1.3744	-1.3405	-1.3023	-1.3124	-1.4019	-1.3379	-1.5195	-.8833	-.7333	-.6959
7114	27.43	-.7225	-1.3097	-1.3314	-1.4077	-1.4212	-1.4205	-1.4311	-1.4592	-1.0452	-.9558	-.9088
7115	.00	-.0392	.2589	-.0122	-.0581	-.0876	-.1041	-.1117	-.0974	-.0719	-.0593	-.0921

TEST 63 RUN 1

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7095	-.17	-.0959	-.1242	-.3277	-.1481	-.1577	-.1702	-.1762	-.1488	-.0704	.2299	.0067
7096	-1.55	-.0929	-.1251	-.3167	-.1653	-.2159	-.2447	-.2764	-.2848	-.2192	.1773	.0930
7097	2.45	-.1090	-.1268	-.3095	-.0659	-.0614	-.0445	-.0174	.0339	.1396	.0894	-.2733
7098	2.45	-.1065	-.1302	-.3111	-.0705	-.0610	-.0511	-.0204	.0334	.1391	.0825	-.2681
7099	2.70	-.1124	-.1306	-.3129	-.0644	-.0540	-.0381	-.0037	.0485	.1500	.0558	-.3011
7100	2.70	-.1093	-.1274	-.3079	-.0628	-.0536	-.0403	-.0033	.0500	.1546	.0497	-.3028
7101	4.22	-.1133	-.1285	-.2992	-.0381	-.0027	.0188	.0679	.1222	.1924	-.2518	-.5177
7102	5.61	-.1186	-.1323	-.2851	-.0050	.0422	.0691	.1213	.1680	.1940	-.6308	-.7410
7103	6.46	-.1274	-.1355	-.2789	.0073	.0624	.0960	.1448	.1854	.1677	-.9225	-.9186
7104	7.87	-.1315	-.1348	-.2520	.0382	.1027	.1337	.1785	.2015	.1094	-1.4775	-1.2396
7105	9.18	-.1462	-.1396	-.2794	.0652	.1335	.1634	.2041	.2036	.0383	-2.0670	-1.4931
7106	10.41	-.1347	-.1400	-.2873	.0873	.1616	.1894	.2149	.1852	-.0858	-2.6898	-1.7207
7107	10.41	-.1345	-.1361	-.2866	.0911	.1612	.1897	.2148	.1820	-.0765	-2.7088	-1.7264
7108	11.50	-.1478	-.1553	-.2735	.1147	.1868	.2110	.2233	.1632	-.1879	-3.1728	-1.7434
7109	12.72	-.2569	-.2073	-.3876	.1372	.2147	.2331	.2412	.1716	-.1886	-2.0383	-1.8181
7110	13.91	-.2628	-.2153	-.3740	.1558	.2333	.2489	.2438	.1537	-.2298	-1.7483	-1.6554
7111	16.47	-.2329	-.2402	-.4991	.1892	.2689	.2791	.2652	.1578	-.2398	-1.2551	-1.2368
7112	16.47	-.2396	-.2342	-.4902	.1956	.2720	.2821	.2643	.1592	-.2412	-1.2647	-1.2495
7113	21.24	-.6163	-.5327	-.6440	.2537	.3166	.3068	.2488	.0812	-.4026	-1.0843	-1.0954
7114	27.43	-.8459	-.7458	-.8365	.3353	.3700	.3192	.1920	-.0432	-.6367	-1.0498	-1.0695
7115	.00	-.1002	-.1266	-.3320	-.1442	-.1535	-.1689	-.1683	-.1464	-.0422	.2309	-.0036

TEST 63 RUN 1

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7095	-.17	-.0893	-.0916	-.0976	-.1133	-.0953	-.0924	-.1106	-.2743	-.1725	-.1967	-.2049
7096	-1.55	.0027	-.0180	-.0399	-.0619	-.0670	-.0937	-.1169	-.2690	-.2037	-.2601	-.2818
7097	2.45	-.3070	-.2627	-.2324	-.2234	-.1700	-.1144	-.1132	-.2609	-.1262	-.1084	-.0849
7098	2.45	-.3046	-.2632	-.2328	-.2221	-.1691	-.1132	-.1136	-.2622	-.1271	-.1116	-.0850
7099	2.70	-.3268	-.2848	-.2463	-.2310	-.1752	-.1099	-.1080	-.2558	-.1206	-.1014	-.0741
7100	2.70	-.3263	-.2851	-.2493	-.2371	-.1789	-.1127	-.1092	-.2526	-.1157	-.0948	-.0636
7101	4.22	-.4834	-.4212	-.3269	-.2923	-.2255	-.1219	-.1170	-.2433	-.0917	-.0520	-.0106
7102	5.61	-.6499	-.5519	-.3993	-.3590	-.2623	-.1272	-.1201	-.2344	-.0732	-.0092	.0355
7103	6.46	-.7567	-.5827	-.4586	-.4013	-.2858	-.1342	-.1233	-.2267	-.0567	.0187	.0649
7104	7.87	-.9450	-.7247	-.5559	-.4687	-.3158	-.1365	-.1269	-.2011	-.0348	.0484	.1034
7105	9.18	-1.1173	-.8538	-.6312	-.5229	-.3491	-.1605	-.1435	-.1991	-.0137	.0808	.1339
7106	10.41	-1.2324	-.9331	-.6900	-.5616	-.4509	-.1656	-.1391	-.2379	.0091	.1109	.1616
7107	10.41	-1.2428	-.9353	-.6920	-.5775	-.4535	-.1783	-.1488	-.2420	.0065	.1089	.1598
7108	11.50	-1.1236	-.8906	-.8296	-.7963	-.8597	-.1272	-.1272	-.2588	.0287	.1353	.1836
7109	12.72	-1.8461	-2.0878	-1.8268	-.9399	-.3805	-.1759	-.1604	-.2162	.0430	.1543	.2017
7110	13.91	-1.6660	-1.7700	-1.9255	-1.5617	-.6447	-.2114	-.2017	-.2374	.0534	.1714	.2159
7111	16.47	-1.2465	-1.2545	-1.2379	-1.1926	-1.3296	-.5611	-.4913	-.5678	.0804	.1991	.2431
7112	16.47	-1.2633	-1.2652	-1.2410	-1.2085	-1.3332	-.5762	-.4917	-.5574	.0833	.2023	.2479
7113	21.24	-1.0940	-1.1187	-1.0987	-1.0829	-1.0482	-.7811	-.7278	-.7194	.1358	.2488	.2699
7114	27.43	-1.1242	-1.1563	-1.1553	-1.1532	-1.1634	-.8814	-.8244	-.8138	.2035	.2934	.2839
7115	.00	-.0966	-.1004	-.1042	-.1225	-.1056	-.0993	-.1155	-.2826	-.1879	-.1987	-.2029

TEST 63 RUN 1

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7095	-.17	-.2013	-.1744	-.0837	.1930	.0093	-.0698	-.0920	-.1198	-.1256	-.1063
7096	-1.55	-.3042	-.3133	-.2642	.0272	.1056	.0264	-.0185	-.0577	-.0764	-.0763
7097	2.45	-.0365	.0288	.1276	.1810	-.2674	-.2952	-.2631	-.2392	-.2207	-.1574
7098	2.45	-.0360	.0266	.1293	.1850	-.2710	-.2899	-.2642	-.2370	-.2187	-.1560
7099	2.70	-.0228	.0411	.1404	.1655	-.2986	-.3194	-.2854	-.2527	-.2323	-.1585
7100	2.70	-.0221	.0467	.1455	.1628	-.2964	-.3230	-.2806	-.2517	-.2352	-.1593
7101	4.22	.0497	.1186	.1851	.0138	-.5333	-.4804	-.4205	-.3320	-.2965	-.1931
7102	5.61	.1064	.1651	.1785	-.2323	-.8071	-.6650	-.5563	-.4000	-.3738	-.2220
7103	6.46	.1320	.1835	.1539	-.4393	-.9531	-.7782	-.6134	-.4649	-.4177	-.2504
7104	7.87	.1657	.1933	.0853	-.8716	-1.2837	-.9790	-.6753	-.5547	-.4721	-.2746
7105	9.18	.1875	.1875	-.0089	-1.3876	-1.6575	-1.1048	-.8285	-.6221	-.5183	-.3001
7106	10.41	.1963	.1650	-.1319	-1.8543	-1.9368	-1.2709	-.8978	-.6442	-.4984	-.3754
7107	10.41	.1984	.1622	-.1264	-1.8704	-1.9369	-1.2725	-.8851	-.6344	-.5025	-.3886
7108	11.50	.2091	.1460	-.2209	-2.2409	-1.7991	-1.0892	-.7365	-.6914	-.6554	-.6932
7109	12.72	.2256	.1685	-.1495	-1.3222	-1.3137	-1.3362	-1.3511	-1.4118	-1.4464	-1.0065
7110	13.91	.2334	.1610	-.1678	-1.1742	-1.1943	-1.1900	-1.2198	-1.2504	-1.2824	-1.1969
7111	16.47	.2474	.1687	-.1306	-.8442	-.7795	-.7630	-.7321	-.7347	-.7155	-.7449
7112	16.47	.2511	.1750	-.1300	-.8395	-.7668	-.7588	-.7299	-.7522	-.7139	-.7605
7113	21.24	.2251	.0709	-.3453	-.9244	-.8581	-.8614	-.8504	-.8645	-.8512	-.8004
7114	27.43	.1763	-.0657	-.5547	-.9133	-.8942	-.9281	-.9082	-.9456	-.9370	-.9137
7115	.00	-.1992	-.1675	-.0571	.2023	-.0054	-.0783	-.1023	-.1196	-.1277	-.1049

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 2

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7131	.200	2803.7	-.17	-.0608	.0145	.0245	-.0609	.0144	.0010	-4.19	.692
7133	.200	2802.3	-1.70	-.1173	.0166	.0320	-.1177	.0131	.0008	-7.06	.605
7134	.201	2813.1	2.43	.0290	.0143	.0145	.0296	.0130	.0010	2.04	.097
7135	.200	2803.1	3.97	.0823	.0158	.0088	.0832	.0101	.0013	5.21	.354
7136	.201	2818.2	6.73	.1771	.0219	-.0015	.1784	.0011	.0012	8.07	.430
7137	.201	2810.8	9.14	.2629	.0317	-.0121	.2646	-.0104	.0015	8.29	.455
7138	.200	2801.1	11.51	.3709	.0527	-.0337	.3739	-.0223	.0017	7.03	.484
7140	.201	2810.2	13.80	.4862	.0954	-.0514	.4949	-.0234	.0029	5.10	.493
7142	.201	2619.2	16.78	.6205	.1647	-.0640	.6417	-.0214	.0022	3.77	.490
7143	.201	2820.5	18.86	.7167	.2194	-.0758	.7492	-.0240	.0000	3.27	.491
7144	.201	2820.5	21.45	.8214	.2949	-.0886	.8724	-.0259	.0006	2.79	.492

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 2

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7131	-.17	.0631	-.0133	-.0196	-.0370	.0147	.0680	.2854	.0888	-.0079	-.0202	-.0198
7133	-1.70	.0278	-.0557	-.0751	-.1052	-.0759	-.0276	.2826	.1705	.0677	.0436	.0280
7134	2.43	.1008	.0668	.0751	.0713	.1340	.2099	.1865	-.1245	-.1743	-.1487	-.1177
7135	3.97	.1413	.1143	.1276	.1245	.1983	.2554	.0185	-.2680	-.2724	-.2294	-.1981
7136	6.73	.1883	.1945	.2100	.2252	.2803	.2876	-.4883	-.5782	-.4820	-.4018	-.3027
7137	9.14	.2271	.2416	.2638	.2791	.3132	.2471	-1.0608	-.9226	-.6837	-.5431	-.4058
7138	11.51	.2707	.2928	.3110	.3225	.3231	.1583	-1.8264	-1.3350	-.9230	-.7025	-.5284
7140	13.80	.3200	.3453	.3568	.3462	.3065	.0193	-2.7707	-1.6871	-1.1597	-.8863	-.6617
7142	16.78	.3815	.4032	.4047	.3615	.2567	-.2490	-4.1612	-2.1504	-1.4862	-1.2406	-1.0953
7143	18.86	.4252	.4416	.4265	.3519	.1821	-.4449	-4.1446	-2.3353	-1.7476	-1.5034	-1.1104
7144	21.45	.4783	.4920	.4650	.3616	.1546	-.5515	-3.1092	-2.8971	-2.8888	-2.9167	-2.5875

TEST 63 RUN 2

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7131	-.17	-.0024	.0466	.0040	-.0613	-.0505	-.0514	-.0289	.0379	.2535	.0279	-.0214
7133	-1.70	.0389	.0782	-.0272	-.0959	-.1157	-.1321	-.1296	-.0873	.2308	.1189	.0660
7134	2.43	-.0788	-.0104	.0522	.0252	.0489	.0743	.1174	.1852	.1602	-.1994	-.1891
7135	3.97	-.1327	-.0461	.0760	.0713	.1015	.1366	.1763	.2351	-.0025	-.3747	-.2960
7136	6.73	-.2173	-.1053	.1367	.1435	.1800	.2132	.2470	.2493	-.5554	-.7035	-.5315
7137	9.14	-.2979	-.1610	.1832	.2046	.2387	.2670	.2751	.2045	-1.2436	-1.0957	-.7684
7138	11.51	-.3964	-.2495	.2273	.2537	.2823	.2894	.2637	.0911	-2.0949	-1.4929	-1.0073
7140	13.80	-.5563	-.3677	.2677	.2974	.3108	.2968	.2223	-.0727	-3.1226	-1.8023	-1.2001
7142	16.78	-1.0467	-.5635	.3255	.3567	.3542	.3060	.1760	-.2633	-3.0216	-2.7889	-2.6899
7143	18.86	-.9369	-.8019	.3667	.3872	.3728	.2948	.1216	-.3714	-2.6872	-2.7359	-2.7928
7144	21.45	-1.6437	-.5506	.4181	.4230	.3862	.2885	.0968	-.4513	-2.1916	-2.3100	-2.4279

TEST 63 RUN 2

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7131	-.17	-.0027	-.0269	-.0384	-.0215	-.0401	-.1069	-.1086	-.0943	-.0776	.0176	.2182
7133	-1.70	.0622	.0278	.0068	.0169	-.0639	-.1440	-.1699	-.1899	-.1952	-.1325	.1656
7134	2.43	-.1505	-.1431	-.1252	-.0779	.0122	-.0208	.0018	.0349	.0841	.1838	.0614
7135	3.97	-.2418	-.1861	-.1780	-.1139	.0617	.0489	.0637	.1049	.1519	.2244	-.1873
7136	6.73	-.4079	-.3169	-.2800	-.1886	.0918	.1109	.1426	.1897	.2206	.2084	-.8991
7137	9.14	-.5798	-.4570	-.3738	-.2579	.1379	.1712	.2029	.2338	.2422	.1145	-1.7599
7138	11.51	-.7652	-.5837	-.4946	-.3958	.1856	.2223	.2477	.2517	.2133	-.0665	-2.9151
7140	13.80	-.9870	-.8644	-.8236	-.5814	.2320	.2667	.2784	.2580	.1674	-.2865	-3.6761
7142	16.78	-1.7981	-1.0163	-.8385	-.6617	.2914	.3264	.3219	.2815	.1525	-.3580	-2.0117
7143	18.86	-3.0101	-2.9630	-1.5902	-.5998	.3310	.3552	.3397	.2715	.0981	-.4875	-1.9936
7144	21.45	-2.4163	-3.0071	-3.3088	-1.4564	.3784	.3883	.3539	.2598	.0510	-.5858	-1.8252

TEST 63 RUN 2

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7131	-.17	.0153	-.0302	-.0886	-.0758	-.0889	-.0785	-.0643	-.1418	-.1529	-.1418	-.1130
7133	-1.70	.1168	.0573	-.0096	-.0175	-.0345	-.0440	-.0731	-.2055	-.2364	-.2546	-.2412
7134	2.43	-.2217	-.2208	-.2387	-.2009	-.1844	-.1458	-.0097	-.0423	-.0281	.0099	.0632
7135	3.97	-.4172	-.3492	-.3539	-.2732	-.2523	-.1940	.0282	.0060	.0294	.0820	.1318
7136	6.73	-.8585	-.5922	-.5859	-.4082	-.3694	-.2731	.0819	.0851	.1218	.1735	.2047
7137	9.14	-1.2525	-.8485	-.7807	-.5529	-.4670	-.3452	.1278	.1463	.1816	.2165	.2194
7138	11.51	-1.6248	-1.0816	-.9571	-.6916	-.5922	-.5214	.1692	.2013	.2280	.2411	.2003
7140	13.80	-1.8173	-1.2557	-1.1448	-.9447	-.8030	-.9218	.2126	.2501	.2651	.2488	.1546
7142	16.78	-1.9754	-2.0112	-2.1033	-2.4099	-2.3239	-1.1674	.2610	.2999	.3047	.2676	.1476
7143	16.86	-1.9352	-2.0315	-2.0861	-2.3315	-2.9618	-1.7406	.2922	.3289	.3212	.2678	.1152
7144	21.45	-1.8401	-1.9066	-2.0245	-1.9615	-2.1087	-2.5404	.3316	.3605	.3390	.2629	.0924

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 2

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7131	-.17	-.0510	.2575	-.0039	-.0481	-.0874	-.0987	-.1106	-.0831	-.0700	-.0561	-.0864
7133	-1.70	-.2218	.1928	.1025	.0472	.0103	-.0268	-.0485	-.0403	-.0527	-.0438	-.0768
7134	2.43	.1385	.2084	-.2622	-.2571	-.2527	-.2300	-.2153	-.1586	-.0989	-.0818	-.1053
7135	3.97	.1842	.0048	-.4553	-.4079	-.3754	-.3087	-.2757	-.1977	-.1148	-.0946	-.1166
7136	6.73	.1865	-.6398	-.9165	-.6412	-.5660	-.4540	-.4018	-.2807	-.1460	-.1200	-.1307
7137	9.14	.0740	-1.4542	-1.2844	-.9757	-.7937	-.6076	-.5054	-.3572	-.1870	-.1441	-.1531
7138	11.51	-.1113	-2.4664	-1.6534	-1.1738	-.9413	-.7875	-.7377	-.6472	-.2020	-.1640	-.1712
7140	13.80	-.3073	-2.6446	-1.7962	-1.5379	-1.3617	-.9914	-.8858	-.7841	-.3846	-.2503	-.2300
7142	16.78	-.3034	-1.6274	-1.3906	-1.4196	-1.4425	-1.4570	-1.6023	-1.8552	-.2721	-.1906	-.2429
7143	18.86	-.3965	-1.5405	-1.5197	-1.5064	-1.5689	-1.6090	-1.5709	-1.9639	-.6404	-.4965	-.4662
7144	21.45	-.4643	-1.3751	-1.3998	-1.3751	-1.3788	-1.4268	-1.3415	-1.5688	-.8561	-.7071	-.6549

TEST 63 RUN 2

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7131	-.17	-.0954	-.1225	-.3066	-.1470	-.1583	-.1770	-.1765	-.1500	-.0603	.2328	-.0018
7133	-1.70	-.0854	-.1145	-.3082	-.1681	-.2241	-.2542	-.2814	-.2945	-.2442	.1687	.1096
7134	2.43	-.1068	-.1251	-.2995	-.0712	-.0649	-.0506	-.0125	.0371	.1391	.0805	-.2686
7135	3.97	-.1159	-.1291	-.2864	-.0395	-.0104	.0133	.0588	.1168	.1919	-.1920	-.4770
7136	6.73	-.1228	-.1315	-.2615	.0135	.0718	.0993	.1518	.1882	.1632	-1.0110	-.9804
7137	9.14	-.1383	-.1332	-.2714	.0644	.1328	.1639	.2042	.2026	.0302	-2.0337	-1.4157
7138	11.51	-.1597	-.1564	-.2884	.1113	.1839	.2092	.2239	.1698	-.1735	-3.1461	-1.7458
7140	13.80	-.1851	-.1561	-.3755	.1531	.2274	.2455	.2407	.1454	-.2791	-2.2033	-2.0102
7142	16.78	-.2680	-.2651	-.4154	.1942	.2703	.2847	.2658	.1592	-.2416	-1.1787	-1.1955
7143	18.86	-.4114	-.3346	-.4894	.2240	.2942	.2948	.2526	.1313	-.3005	-1.0730	-1.0937
7144	21.45	-.5825	-.4959	-.6480	.2568	.3252	.3064	.2387	.0837	-.4037	-1.0349	-1.0637

TEST 63 RUN 2

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7131	-.17	-.0837	-.0873	-.0986	-.1101	-.1068	-.0945	-.1020	-.2516	-.1842	-.2066	-.2079
7133	-1.70	.0124	-.0073	-.0328	-.0551	-.0672	-.0838	-.0950	-.2470	-.2003	-.2661	-.2881
7134	2.43	-.3031	-.2664	-.2325	-.2088	-.1735	-.1106	-.1103	-.2436	-.1277	-.1072	-.0834
7135	3.97	-.4508	-.3898	-.3101	-.2786	-.2109	-.1145	-.1121	-.2315	-.0919	-.0572	-.0237
7136	6.73	-.7996	-.6189	-.4835	-.4108	-.2895	-.1325	-.1248	-.2213	-.0562	.0170	.0666
7137	9.14	-1.0969	-.8448	-.6442	-.5260	-.3579	-.1593	-.1431	-.2002	-.0164	.0799	.1332
7138	11.51	-1.1615	-.9319	-.8577	-.8471	-.6812	-.1452	-.1223	-.2288	.0200	.1290	.1750
7140	13.80	-2.1919	-2.4291	-1.5389	-.7577	-.4688	-.2673	-.2510	-.3324	.0542	.1731	.2190
7142	16.78	-1.2172	-1.2298	-1.2013	-1.1532	-1.3630	-.5309	-.4686	-.5454	.0783	.2001	.2449
7143	18.86	-1.0843	-1.1080	-1.0980	-1.0548	-1.1821	-.7015	-.6252	-.6156	.1094	.2249	.2552
7144	21.45	-1.0861	-1.1130	-1.1186	-1.0839	-1.0737	-.7773	-.7095	-.7106	.1381	.2505	.2737

TEST 63 RUN 2

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7131	-.17	-.1978	-.1768	-.0743	.1889	.0108	-.0720	-.0914	-.1134	-.1188	-.0987
7133	-1.70	-.3164	-.3352	-.2694	-.0083	.1150	.0323	-.0074	-.0525	-.0686	-.0710
7134	2.43	-.0338	.0339	.1345	.1774	-.2725	-.2825	-.2580	-.2368	-.2170	-.1446
7135	3.97	.0410	.1078	.1832	.0401	-.5035	-.4533	-.3943	-.3208	-.2814	-.1892
7136	6.73	.1377	.1846	.1417	-.5242	-1.0068	-.8369	-.5865	-.4834	-.4226	-.2546
7137	9.14	.1873	.1859	-.0045	-1.3392	-1.6416	-1.1030	-.8208	-.6216	-.5216	-.3064
7138	11.51	.2036	.1494	-.2297	-2.2014	-1.7937	-1.0891	-.7802	-.6797	-.6418	-.6359
7140	13.80	.2315	.1484	-.2156	-1.4656	-1.5063	-1.5385	-1.4012	-1.4080	-1.4187	-1.0653
7142	16.78	.2512	.1680	-.1394	-.8107	-.7559	-.7465	-.7397	-.7310	-.6874	-.7177
7143	18.86	.2345	.1121	-.2365	-.8918	-.8369	-.8336	-.8317	-.6545	-.8365	-.7750
7144	21.45	.2237	.0738	-.3400	-.9295	-.8382	-.8429	-.8497	-.8656	-.8531	-.7957

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 3

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7145	.149	1566.5	20.59	.7852	.2678	-.0828	.8292	-.0253	.0004	2.93	.491
7147	.151	1609.6	22.91	.8750	.3380	-.0972	.9376	-.0292	.0005	2.59	.493
7148	.151	1614.0	25.36	.9581	.4180	-.1094	1.0448	-.0326	.0004	2.29	.494
7149	.151	1605.2	26.84	1.0079	.4703	-.1182	1.1117	-.0355	.0004	2.14	.495
7150	.150	1594.6	-.05	-.0588	.0145	.0247	-.0588	.0144	.0008	-4.07	.704

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 3

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7145	20.59	.4563	.4685	.4591	.3682	.2042	-.4551	-3.0953	-2.9244	-2.9370	-3.0117	-2.2074
7147	22.91	.5041	.5062	.4745	.3381	.0967	-.6937	-3.2224	-3.1892	-3.3536	-4.0001	-3.4167
7148	25.36	.5524	.5454	.4934	.3208	.0343	-.9050	-3.4131	-3.5002	-3.6842	-4.3669	-4.6642
7149	26.84	.5761	.5595	.4966	.2972	-.0287	-1.0466	-3.5578	-3.6780	-3.8956	-4.4728	-5.4124
7150	-.05	.0293	-.0390	-.0214	-.0069	.0530	.1241	.3140	.0896	-.0243	-.0482	-.0582

TEST 63 RUN 3

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7145	20.59	-1.3042	-.4935	.4017	.4230	.3985	.3122	.1258	-.4207	-2.2542	-2.3668	-2.4534
7147	22.91	-1.5075	-.4825	.4370	.4406	.3961	.2739	.0444	-.5547	-2.2002	-2.3662	-2.5204
7148	25.36	-2.5017	-.6920	.4791	.4763	.4078	.2602	-.0101	-.6860	-2.3319	-2.4973	-2.6588
7149	26.84	-3.1408	-.8811	.4917	.4865	.4022	.2311	-.0542	-.7749	-2.3540	-2.5027	-2.6487
7150	-.05	-.0222	.0502	-.0038	.0178	.0060	-.0064	-.0131	.0307	.2267	-.0141	-.0309

TEST 63 RUN 3

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7145	20.59	-2.4085	-2.9380	-3.0073	-1.1084	.3750	.3954	.3640	.2689	.0644	-.5692	-1.8755
7147	22.91	-2.4206	-3.1032	-3.6689	-1.6424	.4033	.4090	.3657	.2552	.0195	-.6866	-1.8456
7148	25.36	-2.5366	-2.6327	-3.4325	-2.1734	.4268	.4259	.3639	.2234	-.0429	-.7646	-1.6891
7149	26.84	-2.4814	-2.5544	-3.1109	-2.2511	.4535	.4476	.3686	.2164	-.0638	-.8141	-1.6723
7150	-.05	-.0012	.0057	.0046	.0163	-.0666	-.1201	-.1392	-.1284	-.0940	.0239	.2279

TEST 63 RUN 3

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7145	20.59	-1.8384	-1.8732	-1.9646	-1.9344	-2.2223	-2.4117	.3310	.3623	.3436	.2660	.0961
7147	22.91	-1.8204	-1.8561	-1.9496	-1.7996	-1.8337	-2.3151	.3610	.3840	.3450	.2422	.0434
7148	25.36	-1.7768	-1.8735	-1.9920	-1.8441	-1.8641	-2.1526	.3788	.3913	.3491	.2230	.0013
7149	26.84	-1.7918	-1.8838	-1.9438	-1.7530	-1.8084	-2.0769	.3961	.4044	.3454	.2153	-.0182
7150	-.05	.0549	.0029	-.0531	-.0839	-.1132	-.1195	-.1221	-.1452	-.1316	-.0883	-.0496

TEST 63 RUN 3

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7145	20.59	-.4578	-1.4309	-1.3872	-1.3254	-1.3699	-1.4120	-1.3638	-1.7057	-.8531	-.7215	-.6252
7147	22.91	-.5646	-1.4307	-1.4350	-1.3983	-1.4359	-1.4371	-1.4080	-1.4947	-.9509	-.8171	-.7304
7148	25.36	-.6227	-1.3682	-1.4024	-1.3694	-1.4304	-1.4093	-1.3736	-1.4340	-.9787	-.8692	-.8036
7149	26.84	-.6830	-1.3349	-1.3738	-1.3881	-1.4444	-1.4201	-1.4245	-1.4631	-1.0368	-.9273	-.8859
7150	-.05	-.0701	.2390	-.0192	-.0361	-.0426	-.0562	-.0790	-.0733	-.0838	-.0890	-.1214

TEST 63 RUN 3

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7145	20.59	-.5471	-.4532	-.5542	.2635	.3288	.3199	.2609	.0964	-.3850	-1.0741	-1.0750
7147	22.91	-.6638	-.5681	-.6867	.2821	.3414	.3207	.2388	.0551	-.4674	-1.0663	-1.0809
7148	25.36	-.7485	-.6604	-.7624	.3123	.3656	.3338	.2228	.0179	-.5385	-1.0375	-1.0597
7149	26.84	-.8175	-.7169	-.8109	.3212	.3645	.3216	.2081	-.0324	-.5918	-1.0472	-1.0726
7150	-.05	-.1128	-.1076	-.2451	-.0897	-.1002	-.1306	-.1607	-.1621	-.0784	.2080	-.0091

TEST 63 RUN 3

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7145	20.59	-1.0859	-1.0755	-1.0723	-1.0124	-1.0246	-.7287	-.6747	-.6810	.1200	.2350	.2590
7147	22.91	-1.0992	-1.1226	-1.1013	-1.0910	-1.0635	-.8126	-.7418	-.7338	.1611	.2675	.2863
7148	25.36	-1.1114	-1.1540	-1.1455	-1.1301	-1.1360	-.8371	-.7718	-.7766	.1778	.2819	.2843
7149	26.84	-1.1375	-1.1802	-1.1636	-1.1592	-1.1501	-.8288	-.7793	-.7687	.2021	.2942	.2900
7150	-.05	-.0751	-.0489	-.0572	-.0718	-.0918	-.1089	-.1362	-.2831	-.2249	-.1946	-.1665

TEST 63 RUN 3

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7145	20.59	.2194	.0922	-.2877	-.8649	-.8087	-.8028	-.8038	-.8611	-.8199	-.7809
7147	22.91	.2231	.0543	-.3632	-.8664	-.8237	-.8136	-.8215	-.8549	-.8309	-.8089
7148	25.36	.1953	-.0036	-.4682	-.8957	-.8768	-.8829	-.8922	-.9014	-.9021	-.8835
7149	26.84	.1873	-.0412	-.5338	-.8943	-.8753	-.9126	-.9129	-.9368	-.9418	-.8979
7150	-.05	-.1466	-.1205	-.0373	.2190	-.0135	-.1117	-.1305	-.0636	-.1041	-.0590

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN - 4

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7151	.301	6094.8	-.20	-.0672	.0136	.0268	-.0672	.0134	.0009	-4.94	.690
7152	.301	6091.3	3.08	.0486	.0136	.0133	.0493	.0110	.0012	3.58	.244
7153	.301	6099.1	9.94	.2976	.0360	-.0182	.2994	-.0159	.0018	8.26	.465

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST TP	63 ALPHA DEGREES	CP101	RUN 4 CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7151	-.20	.0679	-.0189	-.0274	-.0405	.0007	.0667	.2995	.0846	-.0180	-.0229	-.0434
7152	3.08	.1241	.0920	.0981	.0949	.1576	.2266	.1242	-.1778	-.2217	-.1838	-.1569
7153	9.94	.2405	.2556	.2776	.2909	.3185	.2285	-1.2883	-1.0907	-.7789	-.6053	-.4540

TEST TP	63 ALPHA DEGREES	CP112	RUN 4 CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7151	-.20	-.0015	.0436	.0115	.0026	-.0574	-.0577	-.0382	.0274	.2583	.0213	-.0289
7152	3.08	-.1021	-.0264	.0531	.0461	.0673	.0968	.1372	.2086	.1167	-.2982	-.2495
7153	9.94	-.3343	-.1847	.1922	.1906	.2502	.2726	.2718	.1743	-1.5035	-1.2513	-.8699

TEST TP	63 ALPHA DEGREES	CP123	RUN 4 CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7151	-.20	.0058	-.0064	-.0390	-.0174	-.0318	-.1011	-.1176	-.1000	-.0829	.0111	.2336
7152	3.08	-.1799	-.1471	-.1505	-.0918	.0374	-.0005	.0222	.0629	.1098	.1983	-.0406
7153	9.94	-.6477	-.4996	-.4136	-.2967	.1753	.1837	.2151	.2415	.2292	.0561	-2.2210

TEST TP	63 ALPHA DEGREES	CP134	RUN 4 CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7151	-.20	.0102	-.0363	-.0938	-.0810	-.0953	-.0892	-.0552	-.1442	-.1652	-.1541	-.1270
7152	3.08	-.3252	-.2676	-.3031	-.2077	-.2253	-.1733	.0016	-.0326	-.0153	.0295	.0834
7153	9.94	-1.3613	-.9459	-.8570	-.5900	-.5002	-.3912	.1441	.1576	.1897	.2197	.2108

TEST TP	63 ALPHA DEGREES	CP201	RUN 4 CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7151	-.20	-.0632	.2658	-.0055	-.0557	-.0807	-.1038	-.1162	-.0898	-.0774	-.0631	-.0953
7152	3.08	.1522	.1504	-.3534	-.3208	-.2947	-.2653	-.2521	-.1824	-.1127	-.0902	-.1162
7153	9.94	.0144	-1.7721	-1.4441	-1.0734	-.8746	-.6594	-.5555	-.4277	-.1835	-.1389	-.1557

TEST TP	63 ALPHA DEGREES	CP212	RUN 4 CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7151	-.20	-.1016	-.1299	-.3243	-.1624	-.1707	-.1899	-.1928	-.1714	-.0752	.2265	.0057
7152	3.08	-.1166	-.1369	-.3125	-.0762	-.0496	-.0346	.0046	.0652	.1582	-.0021	-.3631
7153	9.94	-.1466	-.1487	-.2792	.0716	.1459	.1725	.2038	.1893	-.0387	-2.4685	-1.5932

TEST TP	63 ALPHA DEGREES	CP223	RUN 4 CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7151	-.20	-.0917	-.0933	-.1070	-.1142	-.1113	-.1017	-.1072	-.2592	-.1855	-.2114	-.2146
7152	3.08	-.3769	-.3224	-.2683	-.2470	-.1970	-.1192	-.1171	-.2499	-.1240	-.0948	-.0643
7153	9.94	-1.2075	-.9233	-.6979	-.5689	-.4294	-.1760	-.1586	-.2391	-.0117	.0992	.1430

TEST TP	63 ALPHA DEGREES	CP234	RUN 4 CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7151	-.20	-.2140	-.1858	-.0856	.1835	.0096	-.0659	-.0947	-.1220	-.1310	-.1068
7152	3.08	-.0108	.0558	.1488	.1405	-.3617	-.3542	-.3194	-.2882	-.2546	-.1771
7153	9.94	.1897	.1724	-.0869	-1.6558	-1.8197	-1.2473	-.9047	-.6613	-.5407	-.3485

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 5

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7167	.171	2048.5	-.15	-.0619	.0153	.0254	-.0620	.0152	.0009	-4.04	.698
7168	.161	1822.7	-1.30	-.1039	.0168	.0308	-.1043	.0145	.0008	-6.18	.621
7169	.160	1816.1	2.28	.0243	.0153	.0158	.0249	.0143	.0010	1.59	.002
7170	.161	1828.5	4.03	.0842	.0173	.0095	.0852	.0114	.0011	4.86	.350
7171	.161	1822.7	6.34	.1656	.0233	.0006	.1672	.0049	.0012	7.11	.422
7172	.161	1825.7	8.69	.2511	.0336	-.0106	.2533	-.0048	.0014	7.48	.452
7173	.161	1824.6	10.98	.3372	.0488	-.0230	.3403	-.0163	.0017	6.91	.469
7174	.161	1821.7	-.13	-.0621	.0153	.0257	-.0621	.0152	.0009	-4.05	.700

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 5

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7167	-.15	.0743	-.0064	-.0156	-.0226	.0125	.0811	.2604	.0786	-.0106	-.0148	-.0271
7168	-1.30	.0770	-.0040	-.0083	-.0252	-.0016	.0470	.1473	.1202	.0205	.0230	.0128
7169	2.28	.0757	.0670	.0738	.0822	.1401	.2118	.2099	-.0918	-.1481	-.1245	-.1047
7170	4.03	.1351	.1282	.1415	.1548	.2115	.2683	.2410	-.2745	-.2726	-.2294	-.1888
7171	6.34	.1840	.1880	.2074	.2296	.2784	.2961	.2666	-.5291	-.4320	-.4042	-.2866
7172	8.69	.2272	.2349	.2591	.2773	.3128	.2636	.2569	-.8171	-.6148	-.4950	-.3783
7173	10.98	.2773	.2929	.3170	.3242	.3325	.1865	.1778	-1.2617	-.8460	-.6586	-.4881
7174	-.13	.0752	-.0019	-.0107	-.0193	.0181	.0886	.0828	.0846	-.0053	-.0192	-.0243

TEST 63 RUN 5

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7167	-.15	.0005	.0138	.0449	-.0390	-.0526	-.0472	-.0291	-.0227	.0429	.0213	.0232
7168	-1.30	.0343	.0347	.0786	-.0059	-.0772	-.0841	-.0911	-.0920	-.0600	.0991	.0895
7169	2.28	-.0735	-.0688	-.0076	.0349	.0299	.0422	.1052	.1092	.1880	-.1751	-.1798
7170	4.03	-.1279	-.1160	-.0540	.0732	.0733	.1098	.1700	.1889	.2455	-.3638	-.3636
7171	6.34	-.2080	-.1675	-.1067	.1191	.1364	.1731	.2213	.2493	.2594	-.6438	-.6411
7172	8.69	-.2758	-.2410	-.1492	.1760	.2002	.2306	.2644	.2735	.2160	-1.0388	-1.0385
7173	10.98	-.3723	-.3606	-.2404	.2091	.2461	.2720	.2779	.2650	.1221	-1.3668	-1.3574
7174	-.13	.0038	.0050	.0584	-.0228	-.0443	-.0431	-.0212	-.0201	.0507	.0299	.0257

TEST 63 RUN 5

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7167	-.15	-.0119	-.0316	-.0441	-.0175	-.0644	-.1100	-.1088	-.0904	-.0692	.0241	.2124
7168	-1.30	.0391	.0060	-.0079	.0090	-.0886	-.1570	-.1659	-.1616	-.1561	-.0900	.1847
7169	2.28	-.1349	-.1341	-.1138	-.0724	-.0023	-.0124	.0078	.0455	.0866	.1782	.0734
7170	4.03	-.2543	-.2055	-.1934	-.1285	.0312	.0381	.0760	.1209	.1622	.2288	-.2197
7171	6.34	-.3631	-.2892	-.2599	-.1778	.0985	.1206	.1693	.2045	.2323	.2234	-.7581
7172	8.69	-.5428	-.4204	-.3507	-.2411	.1443	.1884	.2348	.2578	.2574	.1335	-1.5660
7173	10.98	-.8164	-.5459	-.4575	-.3625	.1860	.2455	.2860	.2909	.2458	-.0097	-2.5660
7174	-.13	-.0092	-.0256	-.0376	-.0161	-.0806	-.1103	-.1053	-.0859	-.0641	.0359	.2159

TEST 63 RUN 5

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7167	-.15	.0154	-.0306	-.0770	-.0805	-.0912	-.0810	-.0510	-.1419	-.1482	-.1354	-.1032
7168	-1.30	.1002	.0361	-.0201	-.0335	-.0536	-.0590	-.0878	-.1949	-.2171	-.2249	-.2095
7169	2.28	-.2149	-.2059	-.2266	-.1908	-.1828	-.1451	.0081	-.0445	-.0222	.0143	.0624
7170	4.03	-.4309	-.3528	-.3474	-.2932	-.2486	-.1916	.0600	.0225	.0590	.1034	.1494
7171	6.34	-.7794	-.5697	-.5360	-.4094	-.3719	-.2653	.1031	.0998	.1490	.2003	.2286
7172	8.69	-1.2144	-.8102	-.7599	-.5679	-.4782	-.3510	.1630	.1835	.2393	.2732	.2755
7173	10.98	-1.4825	-1.0321	-.9488	-.7428	-.5990	-.4511	.2020	.2573	.3185	.3312	.2959
7174	-.13	.0167	-.0307	-.0792	-.0821	-.0889	-.0848	-.0692	-.1349	-.1468	-.1314	-.1069

TEST 63 RUN 5

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7167	-.15	-.0376	.2666	.0064	-.0502	-.0746	-.0948	-.1134	-.0849	-.0684	-.0549	-.0842
7168	-1.30	-.0885	.2597	.0677	.0193	-.0184	-.0464	-.0794	-.0726	-.0728	-.0561	-.0847
7169	2.28	.1389	.2143	-.2382	-.2463	-.2372	-.2163	-.2064	-.1420	-.0885	-.0718	-.0922
7170	4.03	.2130	.0354	-.4272	-.3869	-.3648	-.3045	-.2752	-.2010	-.1168	-.0991	-.1139
7171	6.34	.2269	-.4803	-.7839	-.6233	-.5225	-.4356	-.3857	-.2644	-.1441	-.1139	-.1308
7172	8.69	.1589	-1.1768	-1.2503	-.8761	-.7385	-.5954	-.4944	-.3475	-.1689	-.1334	-.1403
7173	10.98	.0462	-2.0078	-1.5116	-1.1037	-.9002	-.7854	-.6786	-.4546	-.2200	-.1960	-.2012
7174	-.13	-.0343	.2695	.0086	-.0479	-.0782	-.1003	-.1092	-.0854	-.0705	-.0576	-.0823

TEST 63 RUN 5

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7167	-.15	-.0904	-.1136	-.2884	-.1496	-.1605	-.1706	-.1674	-.1359	-.0463	.2353	.0031
7168	-1.30	-.0881	-.1119	-.2889	-.1577	-.1940	-.2219	-.2500	-.2601	-.2089	.1893	.0864
7169	2.28	-.0979	-.1178	-.2777	-.0796	-.0737	-.0475	-.0074	.0334	.1421	.1172	-.2434
7170	4.03	-.1170	-.1299	-.2639	-.0331	-.0022	.0353	.0817	.1323	.2087	-.1699	-.4627
7171	6.34	-.1303	-.1358	-.2849	.0149	.0742	.1272	.1782	.2178	.2187	-.7792	-.8265
7172	8.69	-.1341	-.1335	-.2537	.0725	.1613	.2184	.2612	.2607	.1364	-1.6542	-1.2484
7173	10.98	-.1935	-.1825	-.3035	.1221	.2307	.2930	.3217	.2766	.0031	-2.7020	-1.6690
7174	-.13	-.0872	-.1094	-.2837	-.1432	-.1577	-.1671	-.1610	-.1359	-.0444	.2406	.0108

TEST 63 RUN 5

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7167	-.15	-.0878	-.0852	-.1041	-.1148	-.1057	-.0918	-.0969	-.2386	-.1831	-.1986	-.2020
7168	-1.30	-.0121	-.0303	-.0529	-.0714	-.0781	-.0835	-.0896	-.2390	-.2062	-.2452	-.2698
7169	2.28	-.2802	-.2508	-.2256	-.2133	-.1640	-.1044	-.1029	-.2276	-.1294	-.1136	-.0847
7170	4.03	-.4510	-.4003	-.3314	-.2935	-.2162	-.1194	-.1136	-.2148	-.0895	-.0512	-.0103
7171	6.34	-.7065	-.5618	-.4567	-.3775	-.2557	-.1247	-.1197	-.2074	-.0396	.0186	.0711
7172	8.69	-.9880	-.7689	-.6226	-.4862	-.3374	-.1564	-.1457	-.2332	.0053	.0928	.1497
7173	10.96	-1.2364	-.9500	-.8379	-.6815	-.4171	-.1899	-.1646	-.2027	.0530	.1626	.2196
7174	-.13	-.0824	-.0785	-.0994	-.1125	-.1054	-.0927	-.0980	-.2358	-.1827	-.1962	-.1979

TEST 63 RUN 5

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7167	-.15	-.1912	-.1677	-.0724	.2024	.0188	-.0621	-.0866	-.1088	-.1166	-.0942
7168	-1.30	-.3011	-.3077	-.2502	.0464	.0956	.0123	-.0248	-.0569	-.0773	-.0747
7169	2.28	-.0418	.0208	.1284	.2027	-.2384	-.2718	-.2446	-.2252	-.2072	-.1431
7170	4.03	.0523	.1131	.1939	.0642	-.4746	-.4232	-.3654	-.3144	-.2682	-.1736
7171	6.34	.1420	.1986	.1969	-.3184	-.8554	-.7182	-.5904	-.4295	-.3740	-.2266
7172	8.69	.2138	.2405	.1143	-.9441	-1.3713	-.9565	-.7036	-.5457	-.4473	-.2760
7173	10.98	.2678	.2404	-.0519	-1.7623	-1.8703	-1.2423	-.8883	-.6483	-.5342	-.3971
7174	-.13	-.1967	-.1680	-.0615	.2020	.0159	-.0707	-.0857	-.1128	-.1201	-.0979

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 6

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7177	.161	1822.5	-.13	-.0625	.0153	.0254	-.0626	.0151	.0008	-4.10	.695
7178	.161	1826.1	8.70	.2503	.0334	-.0105	.2524	-.0048	.0014	7.49	.452
7179	.161	1819.8	10.99	.3361	.0486	-.0229	.3392	-.0164	.0016	6.91	.469
7180	.160	1813.3	13.57	.4348	.0764	-.0361	.4406	-.0278	.0011	5.69	.479
7181	.160	1813.6	16.17	.5496	.1246	-.0521	.5625	-.0333	.0022	4.41	.486
7182	.160	1812.2	18.45	.6576	.1821	-.0675	.6814	-.0354	.0006	3.61	.490
7183	.161	1822.2	20.79	.7646	.2517	-.0822	.8042	-.0361	.0009	3.04	.492
7184	.161	1822.2	23.25	.8722	.3320	-.1000	.9324	-.0392	.0009	2.63	.496
7185	.161	1827.4	25.51	.9479	.4074	-.1091	1.0309	-.0405	.0001	2.33	.495
7186	.161	1828.9	27.24	1.0031	.4724	-.1153	1.1081	-.0390	-.0007	2.12	.493
7187	.160	1811.3	-.11	-.0625	.0148	.0259	-.0625	.0146	.0008	-4.23	.700

Continuation of Run 5.

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 6

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7177	-.13	.0762	-.0000	-.0084	-.0221	.0168	.0819	.2669	.0815	-.0097	-.0136	-.0192
7178	8.70	.2229	.2361	.2603	.2768	.3119	.2686	-.6504	-.8494	-.6108	-.4945	-.3785
7179	10.99	.2695	.2872	.3095	.3240	.3285	.1925	-1.3815	-1.2303	-.8407	-.6528	-.4742
7180	13.57	.3237	.3482	.3590	.3527	.3163	.0575	-2.3507	-1.5462	-1.0939	-.8301	-.6039
7181	16.17	.3673	.3911	.3971	.3667	.2724	-.1562	-3.2589	-1.9761	-1.3833	-1.1298	-.8375
7182	18.45	.4216	.4403	.4345	.3662	.2118	-.3874	-3.7712	-2.2180	-1.6915	-1.4356	-1.0202
7183	20.79	.4622	.4811	.4652	.3644	.1818	-.4723	-2.9053	-2.7645	-2.7592	-2.8857	-2.2718
7184	23.25	.5046	.5150	.4767	.3392	.0963	-.7247	-3.3548	-3.2739	-3.3347	-4.1184	-3.5227
7185	25.51	.5526	.5459	.4887	.3212	.0288	-.8965	-3.3367	-3.5020	-3.6704	-4.3253	-4.8691
7186	27.24	.5882	.5675	.5012	.2913	-.0349	-1.0612	-3.3409	-3.4849	-3.6816	-4.0624	-5.2470
7187	-.11	.0715	.0084	.0047	-.0097	.0212	.0906	.2902	.0818	-.0208	-.0226	-.0332

TEST 63 RUN 6

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7177	-.13	.0028	.0507	-.0316	-.0347	-.0440	-.0367	-.0205	.0404	.0520	.0302	.0277
7178	8.70	-.2747	-.1468	-.1440	.1703	.2367	.2336	.2769	.2625	.2224	-1.0229	-1.0334
7179	10.99	-.3666	-.2227	-.2224	.2090	.2758	.2739	.2736	.2233	.1260	-1.3752	-1.3592
7180	13.57	-.4897	-.3644	-.3690	.2542	.3213	.3145	.2421	.0114	-.0322	-1.6903	-1.7039
7181	16.17	-.7305	-.5759	-.5669	.2823	.3549	.3542	.2017	-.0111	-.1919	-2.8718	-2.8223
7182	18.45	-.8430	-.7163	-.7081	.3171	.3772	.3758	.1640	.0569	-.3091	-2.6136	-2.6088
7183	20.79	-1.4227	-.4653	-.3948	.3665	.3995	.3921	.1353	.1360	-.3828	-2.1566	-2.1606
7184	23.25	-1.5777	-.4990	.4437	.4414	.4032	.4001	.0619	-.0838	-.5054	-2.2796	-2.3610
7185	25.51	-2.5996	-.7123	.4773	.4723	.4084	.4082	-.0012	-.1942	-.6183	-2.3538	-2.3572
7186	27.24	-3.7174	-1.1827	-1.1020	.4313	.4091	.4047	-.0506	-.2607	-.7636	-2.2803	-2.3396
7187	-.11	-.0063	.0475	.0502	-.0224	-.0293	-.0266	-.0085	.0375	.0573	.0306	.0291

TEST 63 RUN 6

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7177	-.13	-.0078	-.0265	-.0367	-.0147	-.0792	-.1017	-.0970	-.0868	-.0696	.0277	.2125
7178	8.70	-.5535	-.4267	-.3505	-.2427	.1432	.1946	.2312	.2582	.2573	.1406	-1.5311
7179	10.99	-.7227	-.5513	-.4505	-.3655	.1920	.2515	.2919	.2946	.2524	-.0038	-2.5612
7180	13.57	-.9198	-.7651	-.7156	-.5897	.2344	.3082	.3372	.3102	.2081	-.2230	-3.3355
7181	16.17	-1.2408	-.7727	-.6224	-.4994	.2723	.3493	.3634	.3179	.2023	-.2505	-1.9940
7182	18.45	-2.8657	-2.6036	-1.3032	-.5304	.3080	.3821	.3865	.3151	.1666	-.3397	-1.6474
7183	20.79	-2.2425	-2.7452	-2.9535	-1.2618	.3503	.4213	.4107	.3151	.1310	-.4299	-1.5338
7184	23.25	-2.3274	-2.6891	-3.2921	-1.7314	.3917	.4518	.4230	.2874	.0501	-.6002	-1.5951
7185	25.51	-2.3584	-2.3829	-3.0205	-2.0696	.4241	.4865	.4402	.2767	.0002	-.7211	-1.6151
7186	27.24	-2.2986	-2.2791	-2.6869	-2.1420	.4441	.5025	.4443	.2647	-.0360	-.7812	-1.5495
7187	-.11	-.0114	-.0344	-.0437	-.0151	-.0757	-.1007	-.0926	-.0760	-.0642	.0355	.2188

TEST 63 RUN 6

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7177	-.13	.0196	-.0278	-.0752	-.0752	-.0898	-.0843	-.0737	-.1433	-.1475	-.1353	-.1090
7178	8.70	-1.2087	-.8132	-.7577	-.5711	-.4727	-.3448	.1640	.1834	.2404	.2814	.2807
7179	10.99	-1.4786	-1.0302	-.9359	-.7309	-.6077	-.4487	.2066	.2593	.3158	.3304	.2950
7180	13.57	-1.7623	-1.2385	-1.0922	-.9206	-.8167	-.7421	.2228	.3198	.3913	.3703	.2818
7181	16.17	-1.8487	-1.7630	-1.8043	-1.7749	-1.4330	-.8823	.2407	.3618	.4450	.4011	.2682
7182	18.45	-1.6293	-1.6397	-1.6322	-1.5916	-1.5746	-1.2068	.2631	.3741	.4749	.4213	.2568
7183	20.79	-1.4946	-1.5221	-1.5774	-1.3896	-1.2710	-1.4051	.2952	.3974	.4981	.4328	.2499
7184	23.25	-1.6077	-1.6262	-1.6955	-1.4639	-1.3203	-1.4753	.3372	.4304	.5190	.4496	.2269
7185	25.51	-1.6603	-1.7207	-1.7594	-1.5079	-1.3473	-1.4451	.3714	.4440	.5421	.4494	.1971
7186	27.24	-1.6065	-1.6586	-1.6702	-1.4831	-1.3603	-1.4341	.3887	.4653	.5501	.4388	.1656
7187	-.11	.0168	-.0222	-.0758	-.0763	-.0897	-.0836	-.0742	-.1385	-.1430	-.1286	-.0951

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 6

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7177	-.13	-.0314	.2675	.0046	-.0445	-.0734	-.0964	-.1077	-.0800	-.0673	-.0539	-.0828
7178	8.70	.1674	-1.1662	-1.2492	-.8763	-.7287	-.5956	-.4887	-.3506	-.1660	-.1318	-.1395
7179	10.99	.0530	-2.0000	-1.5157	-1.1122	-.9015	-.7731	-.6664	-.4572	-.2209	-.1928	-.1895
7180	13.57	-.1285	-3.0882	-1.8470	-1.2738	-1.1286	-1.1756	-1.0337	-.4737	-.3164	-.2849	-.2976
7181	16.17	-.2904	-3.6322	-1.8213	-1.5385	-1.4872	-1.4373	-1.1308	-.6281	-.4442	-.3991	-.3977
7182	18.45	-.3834	-3.6177	-2.1360	-1.9163	-1.7832	-1.4326	-1.1720	-.7467	-.6185	-.5614	-.5408
7183	20.79	-.4257	-3.1006	-2.3101	-2.2565	-1.9783	-1.3110	-1.0998	-.8690	-.7910	-.7152	-.6599
7184	23.25	-.5436	-3.0627	-2.4595	-2.4595	-1.9965	-1.3343	-1.1640	-.9822	-.9392	-.8343	-.7793
7185	25.51	-.6435	-3.0686	-2.5715	-2.5085	-1.9511	-1.3573	-1.2233	-1.0658	-.9798	-.8914	-.8304
7186	27.24	-.7317	-3.1753	-2.6717	-2.4588	-1.9321	-1.3882	-1.2692	-1.1315	-.9767	-.8795	-.8467
7187	-.11	-.0251	.2714	.0089	-.0426	-.0647	-.0953	-.1143	-.0909	-.0772	-.0620	-.0883

TEST 63 RUN 6

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7177	-.13	-.0907	-.1134	-.2854	-.1445	-.1554	-.1676	-.1664	-.1384	-.0387	.2400	.0006
7178	8.70	-.1319	-.1292	-.2531	.0778	.1653	.2275	.2643	.2701	.1384	-1.6152	-1.2500
7179	10.99	-.1833	-.1710	-.2981	.1232	.2343	.2954	.3191	.2783	-.0013	-2.6894	-1.6762
7180	13.57	-.2943	-.2601	-.3624	.1658	.3053	.3672	.3580	.2571	-.2158	-3.9565	-2.0850
7181	16.17	-.3710	-.3358	-.4506	.1803	.3450	.4184	.3864	.2351	-.4095	-4.9318	-2.2193
7182	18.45	-.5190	-.4417	-.5600	.2044	.3662	.4414	.4066	.2216	-.4739	-4.6704	-2.7330
7183	20.79	-.6129	-.5335	-.6428	.2347	.3842	.4635	.4136	.2044	-.5088	-3.3501	-2.3445
7184	23.25	-.7203	-.6298	-.7530	.2668	.4120	.4822	.4233	.1798	-.5782	-2.6384	-2.1157
7185	25.51	-.7782	-.6860	-.7862	.2936	.4417	.5141	.4187	.1524	-.6646	-2.3548	-2.0761
7186	27.24	-.8193	-.7271	-.8308	.3198	.4523	.5266	.4289	.1328	-.7028	-2.0947	-1.9439
7187	-.11	-.0946	-.1130	-.2810	-.1337	-.1452	-.1571	-.1561	-.1317	-.0425	.2359	.0008

TEST 63 RUN 6

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7177	-.13	-.0847	-.0854	-.0972	-.1104	-.1032	-.0863	-.0928	-.2323	-.1804	-.1948	-.2026
7178	8.70	-.9969	-.7705	-.6138	-.4873	-.3335	-.1561	-.1435	-.2278	.0124	.0895	.1506
7179	10.99	-1.2340	-.9555	-.8250	-.6898	-.4081	-.1833	-.1580	-.1942	.0572	.1643	.2210
7180	13.57	-1.4193	-1.1523	-1.2075	-1.0071	-.4598	-.2105	-.1772	-.2004	.0863	.2264	.2788
7181	16.17	-1.7618	-1.5871	-1.3494	-1.0696	-.5699	-.2888	-.2654	-.2845	.0952	.2699	.3331
7182	18.45	-2.1967	-1.8354	-1.4878	-1.2006	-.6512	-.4216	-.4087	-.4342	.1192	.2870	.3599
7183	20.79	-2.1077	-1.8551	-1.5419	-1.1702	-.7532	-.5821	-.5560	-.5770	.1479	.3053	.3855
7184	23.25	-2.0728	-1.9153	-1.5303	-1.1685	-.8830	-.7642	-.7107	-.7119	.1767	.3267	.4045
7185	25.51	-2.0739	-1.8982	-1.4960	-1.2001	-.9842	-.8073	-.7532	-.7605	.1998	.3344	.4071
7186	27.24	-1.9398	-1.7515	-1.4149	-1.1965	-1.0216	-.8324	-.7864	-.7730	.2174	.3428	.4207
7187	-.11	-.0878	-.0960	-.1052	-.1160	-.1055	-.0900	-.0923	-.2286	-.1810	-.1892	-.1954

TEST 63 RUN 6

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7177	-.13	-.1920	-.1652	-.0700	.1986	.0128	-.0686	-.0914	-.1080	-.1214	-.0971
7178	8.70	.2208	.2447	.1148	-.9311	-1.3384	-.9460	-.7048	-.5376	-.4448	-.2715
7179	10.99	.2667	.2377	-.0340	-1.7174	-1.8715	-1.2335	-.8850	-.6512	-.5284	-.3939
7180	13.57	.2923	.1894	-.2888	-2.8348	-2.3461	-1.4878	-1.0672	-.8880	-.7605	-.4530
7181	16.17	.3137	.1335	-.5521	-3.8347	-2.5327	-1.5630	-1.3983	-1.3782	-1.0943	-.3366
7182	18.45	.3340	.1063	-.7205	-4.3173	-2.3632	-1.8705	-1.7682	-1.6960	-.8338	-.4916
7183	20.79	.3582	.1228	-.6986	-3.9341	-2.6499	-2.5135	-2.4990	-1.4631	-.8643	-.6517
7184	23.25	.3754	.1292	-.6729	-3.1237	-2.4460	-2.5049	-2.2182	-1.4043	-1.0248	-.8344
7185	25.51	.3843	.1309	-.6163	-2.4230	-1.9425	-2.0222	-1.7193	-1.2477	-1.0846	-.8880
7186	27.24	.3932	.1397	-.5603	-1.9149	-1.5404	-1.5535	-1.3682	-1.0773	-1.0320	-.8646
7187	-.11	-.1963	-.1740	-.0681	.2077	.0166	-.0675	-.0907	-.1043	-.1159	-.0946

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 7

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7201	.161	1816.3	-.14	-.0616	.0154	.0252	-.0617	.0152	.0008	-4.01	.696
7202	.160	1815.9	-1.53	-.1129	.0174	.0315	-.1133	.0143	.0008	-6.50	.610
7203	.161	1824.2	2.42	.0294	.0154	.0151	.0300	.0141	.0010	1.91	.089
7204	.160	1814.8	4.01	.0855	.0175	.0093	.0865	.0115	.0011	4.89	.353
7205	.160	1811.6	6.50	.1735	.0244	.0001	.1751	.0046	.0012	7.11	.424
7206	.161	1824.8	8.83	.2603	.0362	-.0113	.2628	-.0042	.0014	7.20	.453
7207	.161	1822.3	11.30	.3554	.0550	-.0250	.3593	-.0156	.0015	6.46	.470
7208	.161	1818.7	13.53	.4393	.0798	-.0362	.4458	-.0252	.0007	5.50	.478
7210	.160	1815.4	16.00	.5394	.1213	-.0493	.5520	-.0320	.0014	4.45	.484
7211	.161	1818.2	18.52	.6530	.1803	-.0659	.6765	-.0364	.0011	3.62	.489
7212	.161	1829.9	20.76	.7412	.2414	-.0759	.7786	-.0370	.0015	3.07	.489
7213	.161	1833.0	22.88	.8222	.3051	-.0887	.8761	-.0386	.0015	2.69	.492
7214	.161	1836.0	25.70	.9252	.4007	-.1065	1.0075	-.0401	.0012	2.31	.494
7215	.161	1832.8	26.73	.9573	.4368	-.1118	1.0515	-.0404	.0011	2.19	.495
7216	.160	1799.6	-.12	-.0606	.0149	.0253	-.0606	.0148	.0009	-4.06	.702

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST TP	63 ALPHA DEGREES	CP101	RUN 7 CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7201	-.14	.0765	.0036	-.0074	-.0225	.0165	.0886	.2788	.0821	-.0087	-.0123	-.0244
7202	-1.53	.0439	-.0420	-.0560	-.0847	-.0648	-.0137	-.0174	.1699	.0652	.0487	.0284
7203	2.42	.0859	.0742	.0820	.0865	.1461	.2176	.2042	-.1173	-.1646	-.1356	-.1126
7204	4.01	.1259	.1205	.1348	.1492	.2057	.2642	.2591	-.2677	-.2579	-.2259	-.1813
7205	6.50	.1815	.1823	.2064	.2245	.2757	.2895	.0800	-.5441	-.4475	-.4186	-.2925
7206	8.83	.2343	.2381	.2621	.2826	.3160	.2613	.2626	-.8874	-.6501	-.5168	-.3862
7207	11.30	.2795	.2978	.3162	.3288	.3298	.1792	-.2878	-1.3015	-.8807	-.6837	-.5001
7208	13.53	.3254	.3473	.3598	.3536	.3189	.0432	-.7654	-1.5582	-1.1064	-.8450	-.6187
7210	16.00	.3734	.3926	.3956	.3652	.2757	-.1465	-2.6608	-1.9691	-1.3884	-1.1313	-.8392
7211	18.52	.4207	.4425	.4331	.3618	.2169	-.3814	-.3650	-2.2236	-1.7237	-1.4946	-1.0811
7212	20.76	.4694	.4897	.4674	.3700	.1844	-.4620	-1.1125	-2.7442	-2.7735	-2.7978	-2.3304
7213	22.88	.5020	.5129	.4825	.3552	.1227	-.6583	-.6738	-3.0833	-3.2215	-3.7805	-3.7459
7214	25.70	.5545	.5497	.4971	.3258	.0426	-.8858	-.9009	-3.4739	-3.6488	-4.2574	-4.9368
7215	26.73	.5709	.5643	.5061	.3145	.0056	-.9766	-.9752	-3.3929	-3.5927	-3.7529	-5.3807
7216	-.12	.0943	.0282	.0190	-.0036	.0185	.0754	.0687	.0797	-.0164	-.0179	.0002

TEST TP	63 ALPHA DEGREES	CP112	RUN 7 CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7201	-.14	.0059	.0525	.0515	-.0255	-.0412	-.0419	-.0212	-.0230	.0405	.0223	.0269
7202	-1.53	.0441	.0637	.0781	-.0151	-.1021	-.1033	-.1182	-.1084	-.0699	.1235	.1148
7203	2.42	-.0751	-.0212	-.0052	.0395	.0457	.0620	.1195	.1180	.1946	-.1837	-.1834
7204	4.01	-.1259	-.1235	-.0463	.0870	.0983	.1170	.1883	.1859	.2405	-.3616	-.3594
7205	6.50	-.2065	-.1886	-.1102	.1340	.1762	.1864	.2521	.2483	.2584	-.6733	-.6516
7206	8.83	-.2905	-.2845	-.1643	.1876	.2392	.2437	.2772	.2751	.2096	-1.0546	-1.0533
7207	11.30	-.3818	-.3010	-.2387	.2345	.2872	.2941	.2746	.2695	.0997	-1.4452	-1.4335
7208	13.53	-.5021	-.3935	-.3729	.2651	.3155	.3283	.2435	.2413	-.0323	-1.7098	-1.6868
7210	16.00	-.7330	-.7295	-.5532	.3033	.3524	.3564	.2414	.2076	-.1844	-2.9978	-3.0380
7211	18.52	-.8623	-.8642	-.7207	.3381	.3957	.3897	.2356	.1655	-.3052	-2.5527	-2.6089
7212	20.76	-1.3462	-1.3882	-.5016	.3795	.4243	.3965	.2691	.1493	-.3366	-2.0594	-2.1185
7213	22.88	-1.5099	-1.4819	-.5157	.4130	.4426	.4094	.3021	.0982	-.4364	-1.9668	-2.0457
7214	25.70	-2.6394	-2.5785	-.8367	.4363	.4732	.4208	.2614	.0158	-.5843	-2.0669	-2.1469
7215	26.73	-3.2714	-3.1885	-1.2673	.4374	.4828	.4230	.2566	-.0206	-.6656	-2.1071	-2.2477
7216	-.12	.0268	.0308	.0769	-.0068	-.0417	-.0548	-.0544	-.0445	.0304	.2352	.0313

TEST TP	63 ALPHA DEGREES	CP123	RUN 7 CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7201	-.14	-.0089	-.0267	-.0361	-.0143	-.0820	-.1086	-.0973	-.0802	-.0610	.0369	.2196
7202	-1.53	.0657	.0303	.0134	.0235	-.0502	-.1667	-.1681	-.1668	-.1531	-.0902	.1909
7203	2.42	-.1499	-.1414	-.1171	-.0759	.0034	-.0091	.0288	.0623	.1017	.1887	.0594
7204	4.01	-.2528	-.2034	-.1787	-.1189	.0428	.0512	.1035	.1446	.1770	.2379	-.1983
7205	6.50	-.3924	-.3103	-.2806	-.1940	.1003	.1401	.2005	.2288	.2510	.2309	-.8363
7206	8.83	-.5917	-.4377	-.3622	-.2619	.1574	.2183	.2887	.2946	.2757	.1395	-1.6617
7207	11.30	-.7675	-.5828	-.4918	-.4074	.2104	.2979	.3628	.3409	.2711	-.0396	-2.7342
7208	13.53	-1.0444	-.7820	-.7420	-.6127	.2434	.3487	.4077	.3577	.2375	-.2148	-3.3991
7210	16.00	-2.5967	-1.4747	-.5525	-.4426	.2786	.3962	.4379	.3753	.2417	-.2118	-1.8287
7211	18.52	-2.7274	-2.7461	-1.2637	-.5605	.3181	.4418	.4664	.3683	.2008	-.3063	-1.5694
7212	20.76	-2.1832	-2.1346	-2.7584	-1.2343	.3552	.4809	.4956	.3732	.1689	-.3679	-1.3813
7213	22.88	-2.1951	-2.1269	-2.7874	-1.6261	.3849	.5169	.5179	.3672	.1203	-.5113	-1.4796
7214	25.70	-2.2423	-2.0864	-2.6204	-1.9428	.4154	.5624	.5367	.3513	.0698	-.6201	-1.3676
7215	26.73	-2.2847	-2.2415	-2.5272	-1.9803	.4224	.5752	.5408	.3463	.0442	-.6395	-1.3764
7216	-.12	-.0062	.0031	-.0188	-.0046	-.0820	-.1141	-.1066	-.0888	-.0711	.0216	.2132

TEST TP	63 ALPHA DEGREES	CP134	RUN 7 CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7201	-.14	.0193	-.0246	-.0656	-.0691	-.0918	-.0849	-.0759	-.1480	-.1377	-.1269	-.1003
7202	-1.53	.1164	.0623	.0077	-.0059	-.0415	-.0500	-.0746	-.1947	-.2130	-.2186	-.2052
7203	2.42	-.2248	-.2090	-.2370	-.2086	-.1955	-.1516	.0034	-.0487	-.0088	.0412	.0753
7204	4.01	-.4279	-.3541	-.3582	-.3091	-.2736	-.2047	.0485	.0082	.0621	.1086	.1525
7205	6.50	-.8215	-.6140	-.5633	-.4578	-.4156	-.2800	.1151	.0944	.1757	.2195	.2504
7206	8.83	-1.2735	-.8408	-.7874	-.6516	-.6132	-.3523	.1639	.1537	.2685	.3289	.3362
7207	11.30	-1.5526	-1.0771	-.9759	-.8477	-.8939	-.4518	.1978	.2037	.3605	.4335	.4106
7208	13.53	-1.7845	-1.2488	-1.1146	-.9943	-.9135	-.7497	.2226	.2746	.4131	.4923	.4515
7210	16.00	-1.7218	-1.6605	-1.6711	-1.6404	-1.2856	-.8642	.2445	.3355	.4986	.5567	.4892
7211	18.52	-1.5120	-1.5141	-1.4842	-1.3580	-1.2539	-1.0154	.2807	.3651	.5273	.6064	.5159
7212	20.76	-1.3655	-1.3736	-1.3915	-1.1524	-.9853	-1.0141	.2857	.4512	.5245	.5892	.5218
7213	22.88	-1.4874	-1.4642	-1.4562	-1.1696	-.9994	-.9791	.3109	.4919	.5720	.5722	.4972
7214	25.70	-1.4069	-1.4817	-1.4757	-1.2201	-1.0717	-1.0130	.3507	.5567	.7027	.6460	.4877
7215	26.73	-1.3867	-1.4499	-1.4449	-1.2420	-1.1093	-1.0463	.3587	.5725	.7473	.6784	.4965
7216	-.12	.0219	-.0134	-.0691	-.0617	-.0963	-.0899	-.0838	-.1612	-.1629	-.1560	-.1126

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 7

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7201	-.14	-.0247	.2709	.0096	-.0437	-.0711	-.1055	-.1164	-.0903	-.0691	-.0559	-.0777
7202	-1.53	-.1873	.2191	.1058	.0528	.0234	-.0180	-.0595	-.0495	-.0522	-.0404	-.0737
7203	2.42	.1514	.2256	-.2336	-.2431	-.2472	-.2301	-.2166	-.1538	-.0923	-.0761	-.0955
7204	4.01	.2094	.0493	-.4300	-.3891	-.3633	-.3196	-.2831	-.2004	-.1170	-.0950	-.1087
7205	6.50	.2466	-.4144	-.7911	-.6373	-.5293	-.4856	-.4086	-.2750	-.1435	-.1144	-.1292
7206	8.83	.2462	-.9605	-1.2199	-.8258	-.7114	-.6573	-.6028	-.3521	-.1914	-.1582	-.1642
7207	11.30	.1797	-1.8580	-1.4897	-1.1044	-.8999	-.8846	-.9193	-.4240	-.2756	-.2384	-.2435
7208	13.53	.1054	-2.6890	-1.8490	-1.2769	-1.0556	-1.1624	-1.1516	-.4713	-.3973	-.3573	-.3547
7210	16.00	.0392	-3.4135	-2.0409	-1.4190	-1.2902	-1.3054	-1.2239	-.6469	-.4901	-.4420	-.4343
7211	18.52	-.0068	-3.8957	-2.0380	-1.7403	-1.5797	-1.4092	-1.2079	-.7773	-.6225	-.5648	-.5572
7212	20.76	.0091	-3.7388	-2.1402	-1.8660	-1.6968	-1.4398	-1.2624	-.8827	-.7116	-.6399	-.6061
7213	22.88	-.0264	-3.6040	-2.3116	-1.9830	-1.7845	-1.4752	-1.3009	-.9335	-.7957	-.7096	-.6664
7214	25.70	-.0544	-3.2409	-2.2016	-1.9607	-1.8152	-1.5405	-1.3573	-1.0178	-.8960	-.8028	-.7670
7215	26.73	-.0446	-3.1031	-2.1463	-1.9288	-1.7941	-1.5438	-1.3285	-1.0281	-.9143	-.8406	-.7945
7216	-.12	-.0021	.2926	.0256	-.0422	-.0707	-.1111	-.1382	-.0996	-.0715	-.0445	-.0589

TEST 63 RUN 7

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7201	-.14	-.0847	-.1065	-.2807	-.1469	-.1629	-.1729	-.1648	-.1438	-.0408	.2385	.0097
7202	-1.53	-.0840	-.1110	-.2990	-.1848	-.2246	-.2587	-.2738	-.2724	-.2084	.1970	.1144
7203	2.42	-.1006	-.1167	-.2630	-.0768	-.0648	-.0355	.0010	.0471	.1534	.1209	-.2398
7204	4.01	-.1090	-.1217	-.2710	-.0418	.0010	.0412	.0938	.1399	.2096	-.1285	-.4431
7205	6.50	-.1274	-.1309	-.2688	.0234	.0764	.1603	.2014	.2387	.2399	-.7123	-.7988
7206	8.83	-.1573	-.1520	-.2839	.0862	.1614	.2550	.3024	.3084	.2133	-1.4357	-1.1864
7207	11.30	-.2361	-.2145	-.3491	.1343	.2402	.3647	.4050	.3724	.1191	-2.4469	-1.6269
7208	13.53	-.3294	-.2814	-.3831	.1681	.3186	.4124	.4619	.3838	.0090	-3.4309	-1.9631
7210	16.00	-.4107	-.3599	-.4560	.1937	.3876	.5093	.5381	.4367	-.0790	-4.3659	-2.1620
7211	18.52	-.5329	-.4563	-.5631	.2150	.4224	.5491	.5734	.4423	-.1144	-4.3422	-2.3290
7212	20.76	-.5700	-.4990	-.6035	.2245	.4299	.5482	.5535	.4139	-.1735	-3.7647	-2.1542
7213	22.88	-.6358	-.5666	-.6839	.2510	.4674	.5664	.5723	.4256	-.1749	-3.2148	-1.9336
7214	25.70	-.7334	-.6465	-.7643	.2793	.5308	.6666	.6153	.4524	-.1456	-2.6196	-1.8212
7215	26.73	-.7640	-.6856	-.7819	.2885	.5638	.7015	.6720	.4651	-.1389	-2.5423	-1.7837
7216	-.12	-.0599	-.0854	-.2617	-.1410	-.1730	-.1872	-.1840	-.1573	-.0503	.2365	.0162

TEST 63 RUN 7

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7201	-.14	-.0768	-.0769	-.0948	-.1207	-.1035	-.0891	-.0945	-.2307	-.1830	-.1936	-.1951
7202	-1.53	.0282	.0067	-.0211	-.0592	-.0711	-.0831	-.0928	-.2391	-.2086	-.2396	-.2564
7203	2.42	-.2873	-.2581	-.2314	-.2163	-.1576	-.0988	-.1012	-.2118	-.1255	-.1080	-.0826
7204	4.01	-.4378	-.3831	-.3211	-.2821	-.2024	-.1083	-.1064	-.1974	-.0902	-.0549	-.0144
7205	6.50	-.7098	-.5596	-.4886	-.4072	-.2564	-.1295	-.1164	-.1923	-.0262	.0262	.0767
7206	8.83	-.9404	-.7201	-.6454	-.5854	-.3227	-.1598	-.1461	-.2217	.0248	.0921	.1548
7207	11.30	-1.1886	-.9101	-.8842	-.9336	-.3831	-.1999	-.1791	-.2176	.0479	.1692	.2520
7208	13.53	-1.3149	-1.0339	-1.1232	-1.0508	-.4438	-.2415	-.2112	-.2187	.0413	.1889	.3133
7210	16.00	-1.5310	-1.2817	-1.2095	-1.0902	-.5560	-.2749	-.2501	-.2653	.0880	.2658	.3868
7211	18.52	-1.8612	-1.5259	-1.2834	-1.1206	-.5952	-.3341	-.3282	-.3710	.1264	.3218	.4430
7212	20.76	-1.8547	-1.5941	-1.3611	-1.1270	-.6195	-.4438	-.4402	-.4741	.1527	.3348	.4556
7213	22.88	-1.7372	-1.5889	-1.4100	-1.1105	-.6518	-.5697	-.5747	-.5802	.1774	.3611	.4716
7214	25.70	-1.6929	-1.6226	-1.4278	-1.0930	-.7780	-.7181	-.6877	-.6777	.2104	.3836	.5259
7215	26.73	-1.6865	-1.6269	-1.4208	-1.0988	-.8253	-.7559	-.7176	-.7161	.2253	.3949	.5536
7216	-.12	-.0668	-.0642	-.0805	-.1038	-.0992	-.0937	-.1044	-.2432	-.1983	-.2045	-.1979

TEST 63 RUN 7

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7201	-.14	-.1872	-.1562	-.0593	.2045	.0132	-.0667	-.0884	-.1097	-.1159	-.0975
7202	-1.53	-.2766	-.2806	-.2110	.0723	.1021	.0122	-.0204	-.0518	-.0705	-.0726
7203	2.42	-.0364	.0185	.1300	.2065	-.2370	-.2669	-.2544	-.2214	-.2064	-.1350
7204	4.01	.0449	.1092	.1949	.0894	-.4562	-.4170	-.3684	-.3154	-.2730	-.1833
7205	6.50	.1449	.2070	.2091	-.2703	-.8217	-.6935	-.5588	-.4036	-.3489	-.2072
7206	8.83	.2234	.2576	.1514	-.7901	-1.2774	-.9325	-.6754	-.5148	-.4188	-.2720
7207	11.30	.3188	.3076	.0683	-1.5012	-1.8575	-1.1783	-.8509	-.6108	-.4995	-.3863
7208	13.53	.3852	.3276	-.0661	-2.2806	-2.1517	-1.4060	-.9902	-.7741	-.6729	-.4025
7210	16.00	.4279	.3396	-.2109	-3.1829	-2.5579	-1.5506	-1.2035	-1.0547	-.8308	-.3341
7211	18.52	.4735	.3287	-.3748	-3.9324	-2.7411	-1.7424	-1.5453	-1.4809	-.8819	-.3648
7212	20.76	.4843	.3093	-.4975	-4.3404	-2.6336	-1.9858	-1.8673	-1.6247	-.8609	-.4880
7213	22.88	.5152	.3243	-.5025	-4.2399	-2.6286	-2.3261	-2.2384	-1.7291	-.9665	-.6206
7214	25.70	.5348	.3886	-.3543	-3.5297	-2.5312	-2.3652	-2.2732	-1.6539	-1.0705	-.8192
7215	26.73	.5556	.4137	-.2714	-3.1474	-2.2651	-2.1884	-2.1786	-1.5815	-1.0942	-.8920
7216	-.12	-.1857	-.1541	-.0398	.2098	.0136	-.0744	-.1034	-.1370	-.1426	-.1209

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 8

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7236	.161	1824.4	-.12	-.0502	.0144	.0236	-.0502	.0143	.0009	-3.48	.737
7237	.161	1823.3	-1.87	-.1128	.0168	.0313	-.1133	.0131	.0008	-6.73	.608
7238	.161	1827.0	2.17	.0301	.0142	.0144	.0306	.0131	.0011	2.12	.110
7239	.161	1828.5	3.78	.0856	.0159	.0085	.0864	.0102	.0012	5.40	.358
7240	.161	1822.5	6.08	.1647	.0207	-.0001	.1659	.0031	.0013	7.97	.424
7241	.161	1836.6	8.83	.2630	.0316	-.0122	.2647	-.0091	.0013	8.31	.455
7243	.161	1828.8	10.78	.3496	.0470	-.0292	.3523	-.0192	.0026	7.44	.479
7244	.160	1817.9	13.04	.4485	.0769	-.0445	.4543	-.0263	.0004	5.83	.489
7245	.161	1823.1	15.83	.5889	.1365	-.0679	.6038	-.0293	-.0017	4.31	.499
7246	.160	1814.5	18.07	.6841	.1916	-.0770	.7098	-.0301	.0006	3.57	.496
7247	.161	1822.7	20.18	.7737	.2492	-.0880	.8122	-.0331	.0007	3.11	.496
7248	.160	1818.4	22.83	.8856	.3320	-.1041	.9450	-.0375	.0010	2.67	.497
7249	.161	1837.2	25.12	.9411	.3993	-.1095	1.0216	-.0380	-.0007	2.36	.496
7250	.161	1836.7	26.77	.9802	.4524	-.1169	1.0789	-.0376	-.0004	2.17	.496
7251	.160	1818.1	-.34	-.0598	.0140	.0250	-.0599	.0136	.0009	-4.28	.702

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST	63		RUN 8									
TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7236	-.12	.0722	.0038	.0071	-.0036	.0330	.0969	.0986	.1327	-.0196	-.0201	-.0261
7237	-1.87	.0330	-.0579	-.0782	-.0822	-.0722	-.0203	-.0130	.2479	.0668	.0638	.0453
7238	2.17	.0834	.0732	.0833	.0842	.1425	.2132	.2126	.0568	-.1638	-.1665	-.1429
7239	3.78	.1255	.1215	.1401	.1429	.2009	.2648	.2642	-.0809	-.2751	-.2719	-.2257
7240	6.08	.1746	.1868	.2175	.2256	.2736	.2934	.2903	-.4570	-.4392	-.4368	-.3871
7241	8.83	.2469	.2758	.3045	.3105	.3318	.2662	.2652	-1.0164	-.6820	-.6596	-.5580
7243	10.78	.2700	.3095	.3408	.3401	.3368	.1837	.1853	-1.2826	-.8678	-.7048	-.5418
7244	13.04	.3155	.3702	.3940	.3767	.3329	.0659	.0654	-2.0490	-1.0946	-1.0791	-.8294
7245	15.83	.3637	.4234	.4415	.4063	.3095	-.1294	-.1236	-2.4974	-1.4438	-1.4134	-1.1753
7246	18.07	.4086	.4714	.4807	.4149	.2673	-.2950	-.3024	-2.7615	-1.6932	-1.6114	-1.4692
7247	20.18	.4406	.5058	.5039	.4236	.2555	-.3342	-.3337	-2.6266	-2.4837	-2.4372	-2.3611
7248	22.83	.4769	.5406	.5210	.4179	.1911	-.4842	-.4917	-2.4725	-2.4504	-2.4973	-2.4576
7249	25.12	.5148	.5739	.5432	.4133	.1376	-.6517	-.6559	-2.5948	-2.5694	-2.5552	-2.5841
7250	26.77	.5407	.5959	.5524	.4268	.0904	-.7545	-.7560	-2.5610	-2.5805	-2.5777	-2.5486
7251	-.34	.0576	-.0243	-.0246	-.0297	.0126	.0776	.0835	.1841	-.0087	-.0072	-.0176

TEST	63		RUN 8									
TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7236	-.12	-.0096	-.0112	.0431	.0042	-.0410	-.0354	-.0316	-.0059	.0600	.2534	.0049
7237	-1.87	.0416	.0449	.0758	-.0252	-.1014	-.1036	-.1229	-.1162	-.0817	.2391	.1194
7238	2.17	-.0799	-.0797	-.0145	.0608	.0395	.0541	.0752	.1151	.1871	.1779	-.1838
7239	3.78	-.1281	-.1266	-.0472	.0994	.0845	.1129	.1384	.1831	.2407	.0060	-.3550
7240	6.08	-.2083	-.2149	-.1021	.1441	.1477	.1772	.2195	.2555	.2773	-.3770	-.6040
7241	8.83	-.3209	-.3109	-.1779	.1983	.2249	.2607	.2928	.3084	.2546	-1.0670	-1.0302
7243	10.78	-.3946	-.3969	-.2409	.2286	.2808	.3110	.3315	.3208	.1848	-1.7849	-1.3387
7244	13.04	-.5620	-.5634	-.3225	.2530	.3434	.3693	.3602	.3148	.0678	-2.6313	-1.7156
7245	15.83	-.8394	-.8392	-.5030	.2888	.4009	.4308	.3784	.2672	-.1475	-3.9843	-2.1910
7246	18.07	-1.1088	-1.1336	-.7249	.3215	.4077	.4683	.4113	.2337	-.3325	-5.2027	-2.4922
7247	20.18	-1.3970	-1.3921	-.8483	.3539	.4331	.4657	.3993	.1826	-.5252	-6.1295	-2.8075
7248	22.83	-1.8412	-1.8550	-1.1124	.3924	.4604	.4876	.3743	.0992	-.7458	-6.6283	-3.5002
7249	25.12	-2.0249	-2.0342	-1.2954	.4289	.4600	.4950	.3807	.0531	-.9210	-6.5766	-4.3643
7250	26.77	-2.1780	-2.1881	-1.4816	.4440	.4711	.4802	.3409	.0062	-1.0451	-6.6898	-4.8924
7251	-.34	-.0098	-.0120	.0403	-.0133	-.0625	-.0592	-.0497	-.0262	.0527	.2566	.0366

TEST	63		RUN 8									
TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7236	-.12	-.0313	-.0227	-.0467	-.0439	-.0671	-.0902	-.0914	-.0722	-.0511	.0513	.2142
7237	-1.87	.0660	.0587	.0125	.0169	-.0488	-.1564	-.1791	-.1751	-.1778	-.1099	.1828
7238	2.17	-.1855	-.1496	-.1255	-.1249	.0038	-.0097	.0087	.0425	.0872	.1795	.0719
7239	3.78	-.2875	-.2434	-.1717	-.1720	.0433	.0388	.0700	.1094	.1562	.2286	-.1809
7240	6.08	-.4836	-.3556	-.2461	-.2374	.0903	.1034	.1429	.1830	.2197	.2225	-.7406
7241	8.83	-.7228	-.5475	-.3506	-.2922	.1522	.1758	.2093	.2409	.2462	.1236	-1.6749
7243	10.78	-.9297	-.7165	-.4583	-.3854	.1937	.2280	.2539	.2639	.2376	-.0105	-2.6193
7244	13.04	-1.1475	-.8790	-.6740	-.5692	.2428	.2714	.2877	.2691	.1838	-.2435	-3.9467
7245	15.83	-1.4954	-1.3164	-.9620	-.4224	.3003	.3241	.3162	.2614	.1066	-.5369	-4.3184
7246	18.07	-1.9260	-1.6427	-1.0432	-.7536	.3315	.3561	.3394	.2648	.0781	-.5942	-2.9490
7247	20.18	-2.4331	-2.2308	-1.1690	-.7402	.3655	.3841	.3493	.2411	.0126	-.7684	-2.8534
7248	22.83	-2.8224	-2.6219	-1.2072	-.8842	.4103	.4121	.3508	.2142	-.0736	-.9678	-2.7671
7249	25.12	-3.6088	-2.9403	-1.2396	-1.2272	.4371	.4317	.3523	.1881	-.1364	-1.0624	-2.5188
7250	26.77	-4.2234	-3.7167	-1.3627	-1.3416	.4592	.4454	.3633	.1781	-.1700	-1.1181	-2.4175
7251	-.34	-.0008	.0040	-.0225	-.0206	-.0746	-.0980	-.1100	-.0929	-.0744	.0260	.2098

TEST	63		RUN 8									
TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7236	-.12	-.0025	-.0449	-.0912	-.0861	-.0927	-.0838	-.0379	-.1232	-.1333	-.1160	-.0902
7237	-1.87	.1145	.0526	-.0066	-.0202	-.0383	-.0423	-.0842	-.1963	-.2219	-.2314	-.2313
7238	2.17	-.2217	-.2124	-.2342	-.1974	-.1819	-.1438	-.0059	-.0421	-.0299	.0127	.0623
7239	3.78	-.4130	-.3455	-.3417	-.2800	-.2479	-.1881	.0404	.0126	.0356	.0844	.1353
7240	6.08	-.7577	-.5757	-.5154	-.3778	-.3492	-.2522	.0847	.0856	.1181	.1665	.2024
7241	8.83	-1.2470	-.8266	-.7580	-.5307	-.4505	-.3381	.1386	.1559	.1931	.2282	.2308
7243	10.78	-1.5293	-1.0318	-.9052	-.6392	-.5413	-.4893	.1691	.1977	.2275	.2441	.2118
7244	13.04	-1.9518	-1.2327	-1.0579	-.9062	-.9235	-.7391	.2114	.2502	.2645	.2538	.1642
7245	15.83	-2.0981	-1.6194	-1.6029	-1.2677	-1.2151	-1.1425	.2618	.2974	.3011	.2574	.1172
7246	18.07	-2.7053	-2.6891	-2.8803	-3.1335	-2.5269	-.8147	.2885	.3247	.3191	.2613	.1035
7247	20.18	-2.7595	-2.8040	-3.0049	-3.9590	-3.3474	-1.0533	.3219	.3552	.3322	.2503	.0667
7248	22.83	-2.7778	-2.8767	-2.9175	-4.0061	-3.3454	-1.7325	.3589	.3772	.3395	.2262	-.0102
7249	25.12	-2.6454	-2.6616	-2.6966	-3.3172	-2.9699	-2.0711	.3894	.4021	.3540	.2216	-.0433
7250	26.77	-2.5657	-2.5434	-2.6133	-2.8143	-2.6136	-2.0524	.4086	.4230	.3620	.2117	-.0561
7251	-.34	.0209	-.0288	-.0751	-.0723	-.0810	-.0718	-.0697	-.1258	-.1295	-.1067	-.0758

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 8

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7236	-.12	-.0174	.2678	-.0254	-.0694	-.0958	-.1118	-.1204	-.0899	-.0729	-.0577	-.0838
7237	-1.87	-.1895	.1945	.1020	.0410	.0003	-.0300	-.0508	-.0451	-.0519	-.0394	-.0709
7238	2.17	.1417	.2085	-.2528	-.2521	-.2528	-.2230	-.2036	-.1489	-.0923	-.0752	-.0980
7239	3.78	.1945	-.0106	-.4591	-.4011	-.3754	-.3071	-.2814	-.2031	-.1173	-.0940	-.1097
7240	6.08	.1924	-.5015	-.8400	-.6355	-.5295	-.4336	-.3822	-.2661	-.1365	-.1106	-.1162
7241	8.83	.0930	-1.3993	-1.2284	-.9271	-.7611	-.5788	-.4903	-.3567	-.1928	-.1499	-.1576
7243	10.78	-.0673	-2.2555	-1.5871	-1.1293	-.9044	-.7070	-.6253	-.5552	-.1931	-.1526	-.1587
7244	13.04	-.2783	-3.2099	-1.5941	-1.1802	-1.1737	-1.1839	-1.4343	-.7647	-.2001	-.1601	-.1579
7245	15.83	-.4518	-2.7240	-2.1421	-2.1567	-2.0762	-1.5978	-1.2533	-1.0803	-.3224	-.1883	-.1469
7246	18.07	-.4465	-1.9744	-1.7479	-1.7824	-1.8493	-1.9056	-2.2908	-1.9026	-.3812	-.2946	-.2875
7247	20.18	-.5441	-1.8217	-1.7733	-1.7983	-1.8735	-1.7135	-1.8976	-1.8900	-.6353	-.5269	-.4716
7248	22.83	-.7275	-1.8856	-1.9108	-1.8579	-1.8696	-1.7316	-1.7962	-1.8280	-.9054	-.7839	-.7262
7249	25.12	-.7557	-1.6411	-1.7256	-1.6697	-1.6874	-1.5581	-1.5879	-1.5784	-.9664	-.8548	-.7917
7250	26.77	-.7927	-1.5473	-1.5882	-1.5543	-1.5683	-1.4422	-1.4575	-1.4213	-.9637	-.8626	-.8150
7251	-.34	-.0551	.2524	-.0174	-.0637	-.0911	-.1036	-.1097	-.0844	-.0718	-.0590	-.0906

TEST 63 RUN 8

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7236	-.12	-.0904	-.1156	-.2947	-.1312	-.1443	-.1572	-.1570	-.1239	-.0257	.2384	-.0269
7237	-1.87	-.0840	-.1089	-.2955	-.1696	-.2155	-.2399	-.2712	-.2731	-.2302	.1826	.1099
7238	2.17	-.1061	-.1179	-.2859	-.0691	-.0559	-.0405	-.0055	.0437	.1481	.0943	-.2675
7239	3.78	-.1071	-.1248	-.2714	-.0415	.0044	.0194	.0656	.1196	.1972	-.2133	-.4731
7240	6.08	-.1145	-.1186	-.2386	.0087	.0761	.0963	.1477	.1927	.1808	-.8630	-.8630
7241	8.83	-.1440	-.1361	-.2670	.0625	.1438	.1679	.2054	.2050	.0502	-2.0230	-1.3915
7243	10.78	-.1482	-.1429	-.2800	.1047	.1894	.2079	.2281	.1864	-.1247	-2.9882	-1.7221
7244	13.04	-.1480	-.1453	-.2752	.1493	.2318	.2458	.2473	.1646	-.2325	-2.7328	-1.6924
7245	15.83	-.0975	-.0933	-.3108	.2008	.2789	.2771	.2443	.1076	-.4368	-2.2580	-2.1900
7246	18.07	-.2647	-.2349	-.3601	.2228	.3004	.2957	.2489	.1148	-.3868	-1.4586	-1.4663
7247	20.18	-.4365	-.3788	-.4475	.2539	.3188	.3036	.2340	.0523	-.5295	-1.5039	-1.5667
7248	22.83	-.6669	-.5557	-.6093	.2871	.3456	.3204	.2302	.0129	-.5627	-1.2572	-1.2926
7249	25.12	-.7428	-.6400	-.7355	.3145	.3658	.3313	.2209	.0007	-.5925	-1.1504	-1.1854
7250	26.77	-.7859	-.6864	-.7966	.3255	.3705	.3288	.2120	-.0167	-.5864	-1.0764	-1.0777
7251	-.34	-.0990	-.1234	-.3031	-.1500	-.1672	-.1725	-.1696	-.1465	-.0381	.2411	.0168

TEST 63 RUN 8

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7236	-.12	-.1092	-.1074	-.1154	-.1233	-.1101	-.0963	-.1011	-.2383	-.1736	-.1879	-.1864
7237	-1.87	.0187	-.0054	-.0286	-.0470	-.0605	-.0812	-.0921	-.2314	-.2073	-.2515	-.2728
7238	2.17	-.2962	-.2577	-.2294	-.2064	-.1643	-.0977	-.1018	-.2267	-.1233	-.1043	-.0803
7239	3.78	-.4470	-.3830	-.3096	-.2801	-.2121	-.1130	-.1103	-.2256	-.0976	-.0491	-.0134
7240	6.08	-.7321	-.5537	-.4389	-.3833	-.2666	-.1204	-.1105	-.2060	-.0589	.0176	.0678
7241	8.83	-1.0748	-.8171	-.6236	-.5139	-.3462	-.1584	-.1412	-.2066	-.0146	.0844	.1381
7243	10.78	-1.1990	-.9005	-.7544	-.7041	-.5775	-.1679	-.1425	-.2153	.0221	.1312	.1795
7244	13.04	-1.4913	-1.3353	-.9003	-.8504	-.9229	-.1851	-.1456	-.2751	.0534	.1647	.2077
7245	15.83	-2.3310	-2.0873	-1.5161	-1.2824	-1.2378	-.4876	-.3356	-.3546	.0966	.2142	.2533
7246	18.07	-1.5727	-1.3822	-1.3221	-1.3158	-1.4967	-.6166	-.5358	-.5635	.1091	.2309	.2634
7247	20.18	-1.6325	-1.4611	-1.3594	-1.3082	-1.3140	-.7449	-.6690	-.6309	.1359	.2533	.2801
7248	22.83	-1.3145	-1.2553	-1.2526	-1.1723	-1.2137	-.8255	-.7576	-.6986	.1642	.2759	.2869
7249	25.12	-1.2050	-1.1840	-1.1480	-1.1194	-1.1076	-.7960	-.7509	-.7282	.1829	.2841	.2927
7250	26.77	-1.0934	-1.0784	-1.0882	-1.0775	-1.0750	-.8075	-.7798	-.7637	.1903	.2920	.2925
7251	-.34	-.0627	-.0752	-.0801	-.0921	-.0946	-.0885	-.0972	-.2411	-.1892	-.2031	-.2032

TEST 63 RUN 8

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7236	-.12	-.1739	-.1452	-.0383	.2208	-.0083	-.0846	-.1055	-.1239	-.1311	-.1049
7237	-1.87	-.3066	-.3249	-.2634	.0193	.1128	.0297	-.0095	-.0459	-.0665	-.0645
7238	2.17	-.0276	.0327	.1346	.1845	-.2666	-.2839	-.2561	-.2311	-.2134	-.1445
7239	3.78	.0493	.1123	.1862	.0404	-.5116	-.4532	-.3900	-.3227	-.2803	-.1856
7240	6.08	.1336	.1841	.1645	-.4168	-.9306	-.7598	-.5899	-.4459	-.3980	-.2380
7241	8.83	.1860	.1899	-.0019	-1.3301	-1.6251	-1.1026	-.8120	-.6113	-.4965	-.2966
7243	10.78	.2098	.1639	-.1693	-2.0409	-1.8357	-1.1456	-.7885	-.6337	-.5643	-.5113
7244	13.04	.2207	.1346	-.2695	-2.0143	-1.4393	-1.2373	-1.0560	-.8333	-.7098	-.6609
7245	15.83	.2426	.1280	-.3013	-1.4589	-1.3239	-1.3416	-1.2948	-1.2399	-1.1758	-1.1110
7246	18.07	.2395	.1088	-.2957	-1.1427	-1.0875	-1.1203	-1.0121	-.9660	-.9136	-.9146
7247	20.18	.2356	.0813	-.3479	-1.0982	-.9841	-.9873	-.9606	-.9245	-.8880	-.8640
7248	22.83	.2199	.0328	-.4446	-.9913	-.9247	-.9458	-.8996	-.8772	-.8666	-.8215
7249	25.12	.2062	-.0003	-.4667	-.8962	-.8707	-.8650	-.8458	-.8451	-.8163	-.7886
7250	26.77	.1993	-.0176	-.4838	-.8407	-.8203	-.8244	-.8164	-.8366	-.8345	-.8255
7251	-.34	-.1981	-.1632	-.0522	.2077	.0214	-.0591	-.0776	-.0807	-.0969	-.0703

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 9

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7254	.173	2104.0	-.13	-.0532	.0128	.0217	-.0533	.0127	.0007	-4.16	.696
7255	.160	1816.0	-1.61	-.1149	.0166	.0317	-.1153	.0134	.0009	-6.91	.607
7256	.161	1819.4	2.42	.0281	.0146	.0148	.0286	.0134	.0011	1.92	.080
7257	.160	1818.2	3.81	.0770	.0161	.0094	.0779	.0110	.0012	4.77	.343
7259	.160	1812.3	6.62	.1741	.0225	-.0012	.1755	.0023	.0013	7.72	.428
7260	.161	1820.2	8.87	.2533	.0319	-.0106	.2551	-.0076	.0013	7.95	.452
7261	.160	1814.2	11.09	.3490	.0487	-.0290	.3519	-.0193	.0023	7.17	.479
7262	.160	1814.4	13.79	.4657	.0848	-.0475	.4725	-.0287	.0009	5.49	.491
7263	.160	1815.1	16.16	.5892	.1382	-.0689	.6044	-.0313	.0003	4.26	.500
7264	.161	1832.0	18.29	.6708	.1881	-.0753	.6960	-.0319	.0015	3.57	.496
7265	.161	1827.4	20.44	.7720	.2495	-.0896	.8105	-.0358	.0008	3.09	.498
7266	.161	1829.7	23.25	.8744	.3317	-.1012	.9343	-.0404	.0008	2.64	.496
7267	.161	1825.9	25.60	.9494	.4071	-.1110	1.0322	-.0431	.0003	2.33	.496
7269	.161	1831.5	27.15	.9975	.4621	-.1192	1.0984	-.0440	.0001	2.16	.496
7270	.161	1831.9	-.10	-.0600	.0140	.0250	-.0600	.0139	.0009	-4.29	.702

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 9

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7254	-.13	.0623	.0007	-.0037	-.0132	.0188	.0710	.0712	.1429	-.0109	-.0149	-.0180
7255	-1.61	.0340	-.0499	-.0640	-.0978	-.0735	-.0261	-.0271	.1869	.0667	.0505	.0535
7256	2.42	.0847	.0723	.0827	.0871	.1405	.2167	.2172	-.0995	-.1632	-.1392	-.1107
7257	3.81	.1264	.1115	.1271	.1382	.1978	.2573	.2582	-.2224	-.2503	-.2143	-.2114
7259	6.62	.1832	.1764	.1985	.2179	.2703	.2808	.2818	-.5622	-.4587	-.4232	-.3022
7260	8.87	.2326	.2409	.2627	.2804	.3185	.2659	.2649	-.8882	-.6437	-.5159	-.5050
7261	11.09	.2778	.2943	.3122	.3242	.3295	.1823	.1865	-1.2787	-.8619	-.6677	-.5008
7262	13.79	.3266	.3471	.3651	.3539	.3171	.0351	.0471	-1.6402	-1.1404	-.8700	-.8737
7263	16.16	.3827	.4028	.4023	.3703	.2801	-.1806	-.1636	-2.1688	-1.4068	-1.1432	-1.1229
7264	18.29	.4132	.4303	.4235	.3618	.2175	-.3538	-.3386	-2.3562	-1.6551	-1.4589	-1.4163
7265	20.44	.4529	.4656	.4511	.3676	.2007	-.4240	-.4280	-2.8149	-2.9540	-2.9791	-3.1106
7266	23.25	.5090	.5123	.4776	.3486	.1122	-.6535	-.6690	-2.8972	-3.0907	-3.4084	-3.5830
7267	25.60	.5568	.5472	.4960	.3292	.0513	-.8718	-.8763	-3.4637	-3.7069	-4.0891	-4.2920
7269	27.15	.5757	.5552	.4973	.3262	.0036	-.9507	-.9642	-3.2806	-3.4956	-3.5002	-3.9292
7270	-.10	.0791	.0113	.0047	-.0031	.0238	.0874	.0801	.1162	-.0206	-.0252	-.0301

TEST 63 RUN 9

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7254	-.13	.0032	.0040	.0463	-.0103	-.0463	-.0297	-.0265	-.0163	.0399	.2165	.0211
7255	-1.61	.0505	.0501	.0810	-.0191	-.1074	-.1148	-.1186	-.1147	-.0780	.2391	.1256
7256	2.42	-.0732	-.0784	-.0069	.0622	.0379	.0593	.0900	.1265	.1928	.1729	-.1795
7257	3.81	-.1173	-.1153	-.0373	.0860	.0765	.1176	.1456	.1799	.2390	.0106	-.3297
7259	6.62	-.2191	-.2181	-.1168	.1240	.1551	.2035	.2260	.2520	.2521	-.5489	-.7035
7260	8.87	-.2863	-.2866	-.1624	.1773	.2265	.2747	.2955	.2930	.2286	-1.1580	-1.0535
7261	11.09	-.3758	-.3778	-.2437	.2139	.2792	.3235	.3250	.2902	.1257	-1.9855	-1.4074
7262	13.79	-.5318	-.5321	-.3919	.2530	.3369	.3751	.3489	.2644	-.0327	-3.0288	-1.7269
7263	16.16	-.7522	-.7523	-.5535	.2822	.3804	.4073	.3491	.2284	-.1782	-3.2768	-2.6396
7264	18.29	-.9054	-.9010	-.7775	.3094	.4192	.4235	.3451	.1864	-.2877	-3.0426	-2.8520
7265	20.44	-1.3614	-1.4230	-.7033	.3457	.4381	.4462	.3378	.1457	-.4023	-2.6576	-2.7481
7266	23.25	-1.9520	-1.9590	-.8742	.3828	.4827	.4614	.3306	.1037	-.5023	-2.2510	-2.3456
7267	25.60	-2.5681	-2.5393	-1.1710	.4028	.5126	.4773	.3126	.0449	-.6173	-2.2837	-2.2483
7269	27.15	-3.1941	-3.1728	-1.5494	.4033	.5226	.4782	.2768	.0032	-.7054	-2.2980	-2.3115
7270	-.10	-.0021	-.0033	.0559	-.0011	-.0398	-.0258	-.0278	-.0141	.0479	.2461	.0150

TEST 63 RUN 9

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7254	-.13	-.0145	-.0094	-.0343	-.0125	-.0387	-.0830	-.0869	-.0711	-.0549	.0215	.1841
7255	-1.61	.0686	.0751	.0083	.0182	-.0612	-.1553	-.1725	-.1758	-.1754	-.1067	.1811
7256	2.42	-.1814	-.1460	-.1250	-.0760	.0313	-.0157	.0045	.0477	.0865	.1835	.0823
7257	3.81	-.2792	-.2326	-.1745	-.1135	.0687	.0433	.0626	.1029	.1527	.2273	-.1058
7259	6.62	-.5412	-.4184	-.2984	-.1981	.1108	.1094	.1475	.1914	.2331	.2371	-.7219
7260	8.87	-.7562	-.5871	-.3782	-.2526	.1861	.2029	.2324	.2680	.2840	.1893	-1.4494
7261	11.09	-.9704	-.7516	-.4833	-.3407	.2202	.2741	.2959	.3172	.2957	.0746	-2.3871
7262	13.79	-1.1597	-.9382	-.8751	-.5114	.2345	.3380	.3701	.3556	.2774	-.1416	-3.8050
7263	16.16	-1.4626	-1.0699	-.9908	-.9071	.2761	.3724	.4259	.3814	.2432	-.3619	-5.0670
7264	18.29	-2.6652	-2.0025	-1.1518	-.8906	.3147	.3835	.4478	.4009	.2159	-.5412	-5.8599
7265	20.44	-2.8493	-2.4073	-1.4804	-1.1279	.3540	.3950	.4650	.4007	.1643	-.6969	-5.6393
7266	23.25	-2.2629	-1.9649	-1.7062	-1.3610	.3995	.4089	.4609	.3949	.1154	-.8517	-5.3298
7267	25.60	-2.1454	-1.9298	-1.7621	-1.4681	.4333	.4190	.4571	.3713	.0508	-1.0555	-5.7886
7269	27.15	-2.2287	-1.8684	-1.7081	-1.5312	.4588	.4219	.4536	.3484	.0123	-1.1328	-5.7476
7270	-.10	-.0185	-.0079	-.0426	-.0187	-.0458	-.0952	-.0932	-.0795	-.0696	.0234	.2124

TEST 63 RUN 9

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7254	-.13	.0128	-.0326	-.0714	-.0690	-.0783	-.0711	-.0701	-.1127	-.1214	-.1101	-.0819
7255	-1.61	.1195	.0592	-.0008	-.0134	-.0315	-.0409	-.0826	-.1912	-.2257	-.2378	-.2248
7256	2.42	-.2091	-.2051	-.2338	-.1902	-.1837	-.1451	-.0075	-.0419	-.0318	.0107	.0612
7257	3.81	-.3865	-.3259	-.3235	-.2500	-.2323	-.1752	.0314	.0020	.0286	.0793	.1278
7259	6.62	-.7748	-.5863	-.5427	-.3915	-.3536	-.2689	.0793	.0812	.1125	.1641	.2002
7260	8.87	-1.1665	-.7617	-.7113	-.4984	-.4249	-.3266	.1353	.1558	.1866	.2247	.2330
7261	11.09	-1.4918	-1.0031	-.8817	-.6356	-.5418	-.4806	.1786	.2041	.2337	.2536	.2160
7262	13.79	-1.9997	-1.2750	-1.1110	-.9445	-.8761	-.5487	.2287	.2616	.2756	.2561	.1518
7263	16.16	-2.2212	-1.5379	-1.5188	-1.4930	-1.2816	-.5273	.2641	.2975	.3047	.2659	.1193
7264	18.29	-2.3588	-2.0016	-2.0721	-1.9560	-1.2658	-.5610	.3001	.3308	.3275	.2524	.0768
7265	20.44	-2.5975	-2.4842	-2.6280	-1.9318	-.9683	-.7126	.3264	.3541	.3264	.2336	.0179
7266	23.25	-2.8872	-2.9004	-2.8406	-1.6752	-1.1197	-.8878	.3665	.3856	.3356	.2016	-.0763
7267	25.60	-3.5396	-3.5463	-3.2132	-1.6928	-1.1759	-1.1663	.3946	.4004	.3340	.1703	-.1358
7269	27.15	-3.8133	-3.7464	-3.2961	-1.6128	-1.2561	-1.3726	.4091	.4129	.3306	.1531	-.1706
7270	-.10	.0095	-.0369	-.0910	-.0814	-.0862	-.0779	-.0396	-.1281	-.1380	-.1269	-.1001

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 9

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7254	-.13	-.0369	.2253	.0009	-.0387	-.0634	-.0831	-.0968	-.0814	-.0698	-.0569	-.0780
7255	-1.61	-.2037	.2021	.0969	.0389	.0007	-.0320	-.0507	-.0460	-.0542	-.0412	-.0724
7256	2.42	.1416	.2083	-.2438	-.2470	-.2399	-.2234	-.2035	-.1500	-.0939	-.0771	-.0969
7257	3.81	.1920	.0459	-.4238	-.3798	-.3568	-.2971	-.2689	-.1936	-.1129	-.0880	-.1058
7259	6.62	.1861	-.5860	-.8845	-.6401	-.5508	-.4431	-.3882	-.2637	-.1342	-.1094	-.1192
7260	8.87	.0973	-1.3103	-1.2220	-.9138	-.7458	-.5737	-.4753	-.3391	-.1842	-.1450	-.1504
7261	11.09	-.0588	-2.2810	-1.5843	-1.1423	-.9109	-.7088	-.6222	-.5490	-.1850	-.1438	-.1520
7262	13.79	-.3378	-3.4667	-1.7969	-1.3256	-1.2605	-1.3022	-1.4002	-.6363	-.2085	-.1632	-.1656
7263	16.16	-.4461	-2.8237	-2.2126	-2.1283	-2.1584	-1.8022	-1.6244	-1.0237	-.2443	-.1608	-.1610
7264	18.29	-.5868	-2.6746	-2.2511	-2.2331	-2.2759	-2.4896	-2.5571	-1.0983	-.3409	-.3285	-.3222
7265	20.44	-.7171	-2.5016	-2.3366	-2.3804	-2.4018	-3.1721	-3.0607	-1.2805	-.6063	-.5372	-.4926
7266	23.25	-.9211	-2.6482	-2.5261	-2.5123	-2.4307	-2.9334	-2.6034	-1.6226	-.8581	-.7501	-.6967
7267	25.60	-1.0159	-2.3655	-2.3866	-2.3582	-2.3598	-2.5608	-2.3619	-1.7481	-.9572	-.8697	-.8305
7269	27.15	-1.1183	-2.3112	-2.3812	-2.2929	-2.3244	-2.3934	-2.2217	-1.7063	-.9881	-.8989	-.8621
7270	-.10	-.0279	.4581	.0007	-.0505	-.0747	-.1011	-.1139	-.0970	-.0816	-.0658	-.0878

TEST 63 RUN 9

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7254	-.13	-.0791	-.0968	-.2456	-.1154	-.1247	-.1409	-.1414	-.1267	-.0440	.1974	-.0006
7255	-1.61	-.0808	-.1070	-.2921	-.1617	-.2124	-.2447	-.2714	-.2752	-.2208	.1767	.1061
7256	2.42	-.0998	-.1161	-.2827	-.0690	-.0591	-.0430	-.0113	.0443	.1437	.1015	-.2580
7257	3.81	-.1041	-.1236	-.2696	-.0475	-.0111	.0137	.0606	.1092	.1908	-.1570	-.4454
7259	6.62	-.1148	-.1243	-.2183	.0127	.0829	.1082	.1565	.1970	.1742	-.9725	-.9263
7260	8.87	-.1364	-.1334	-.2587	.0593	.1375	.1626	.2043	.2129	.0716	-1.8814	-1.3483
7261	11.09	-.1449	-.1394	-.2911	.1020	.1832	.2054	.2224	.1855	-.1266	-3.0138	-1.7404
7262	13.79	-.1541	-.1474	-.2911	.1576	.2412	.2528	.2484	.1527	-.3156	-2.8625	-1.8082
7263	16.16	-.1469	-.1322	-.2224	.2034	.2784	.2766	.2399	.0948	-.4543	-2.2731	-2.2601
7264	18.29	-.3128	-.2828	-.3676	.2287	.3039	.3051	.2539	.0960	-.4529	-1.7437	-1.7107
7265	20.44	-.4617	-.3925	-.4622	.2574	.3290	.3120	.2429	.0516	-.5531	-1.6077	-1.6610
7266	23.25	-.6600	-.5635	-.6410	.2962	.3555	.3255	.2190	-.0080	-.6813	-1.5671	-1.5803
7267	25.60	-.7633	-.6578	-.7434	.3213	.3738	.3349	.2143	-.0407	-.6929	-1.3357	-1.3672
7269	27.15	-.8251	-.7385	-.8169	.3357	.3805	.3350	.1980	-.0571	-.7350	-1.2811	-1.2564
7270	-.10	-.0921	-.1099	-.2772	-.1268	-.1366	-.1542	-.1631	-.1426	-.0495	.2322	-.0090

TEST 63 RUN 9

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7254	-.13	-.0819	-.0818	-.0859	-.0936	-.0897	-.0746	-.0813	-.1995	-.1601	-.1714	-.1783
7255	-1.61	.0103	-.0071	-.0359	-.0570	-.0657	-.0800	-.0912	-.2341	-.2200	-.2568	-.2810
7256	2.42	-.2944	-.2551	-.2239	-.2075	-.1665	-.1040	-.1039	-.2302	-.1206	-.1026	-.0806
7257	3.81	-.4310	-.3704	-.3038	-.2722	-.2045	-.1106	-.1098	-.2252	-.1041	-.0616	-.0263
7259	6.62	-.7610	-.5923	-.4690	-.3972	-.2784	-.1241	-.1127	-.1973	-.0553	.0269	.0759
7260	8.87	-1.0429	-.8031	-.6071	-.4953	-.3328	-.1483	-.1347	-.1926	-.0183	.0831	.1345
7261	11.09	-1.2143	-.9142	-.7338	-.6919	-.5679	-.1649	-.1457	-.2255	.0232	.1290	.1832
7262	13.79	-2.1747	-1.4050	-.9663	-.9766	-.9241	-.1966	-.1590	-.2822	.0597	.1758	.2165
7263	16.16	-2.4716	-2.2144	-1.6044	-1.3220	-1.1706	-.3152	-.2048	-.2664	.0981	.2148	.2491
7264	18.29	-1.7907	-1.6983	-1.6066	-1.7155	-1.6859	-.4903	-.4323	-.4387	.1162	.2373	.2718
7265	20.44	-1.6768	-1.6350	-1.5444	-1.5126	-1.5215	-.6935	-.6064	-.5728	.1449	.2614	.2879
7266	23.25	-1.5465	-1.4921	-1.3921	-1.3531	-1.3173	-.7480	-.6999	-.6695	.1696	.2820	.2973
7267	25.60	-1.3606	-1.3026	-1.2285	-1.1628	-1.1794	-.8007	-.7492	-.7356	.1879	.2926	.2986
7269	27.15	-1.2630	-1.2225	-1.1800	-1.0971	-1.0985	-.8286	-.7625	-.7727	.2136	.3093	.3110
7270	-.10	-.0951	-.0974	-.1008	-.1060	-.1001	-.0847	-.0905	-.2306	-.1860	-.2028	-.2102

TEST 63 RUN 9

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7254	-.13	-.1700	-.1506	-.0694	.1673	.0072	-.0571	-.0743	-.0919	-.0967	-.0779
7255	-1.61	-.3130	-.3155	-.2611	.0223	.1137	.0315	-.0097	-.0530	-.0690	-.0677
7256	2.42	-.0348	.0276	.1338	.1864	-.2699	-.2905	-.2542	-.2359	-.2126	-.1486
7257	3.81	.0370	.1024	.1816	.0683	-.4664	-.4265	-.3681	-.3124	-.2702	-.1814
7259	6.62	.1429	.1894	.1531	-.4925	-.9692	-.8166	-.5748	-.4662	-.4053	-.2462
7260	8.87	.1887	.1999	.0301	-1.2249	-1.5148	-1.0392	-.7807	-.5917	-.4850	-.2868
7261	11.09	.2134	.1661	-.1708	-2.0595	-1.8568	-1.1836	-.7959	-.6357	-.5810	-.4975
7262	13.79	.2282	.1260	-.3153	-2.0974	-1.6699	-1.5081	-1.2492	-.9829	-.8189	-.7374
7263	16.16	.2330	.1141	-.3295	-1.5809	-1.4775	-1.3917	-1.4454	-1.3250	-1.2826	-1.1460
7264	18.29	.2537	.1335	-.2818	-1.1692	-1.0639	-1.0709	-.9537	-.9281	-.8985	-1.0339
7265	20.44	.2370	.0791	-.3987	-1.1582	-1.0684	-1.0746	-1.0062	-.9662	-.9073	-.9013
7266	23.25	.2254	.0369	-.4359	-.9908	-.9187	-.9153	-.8823	-.8620	-.8426	-.8218
7267	25.60	.2063	-.0078	-.4827	-.9046	-.8564	-.8528	-.8600	-.8407	-.8203	-.8356
7269	27.15	.1992	-.0276	-.5315	-.8833	-.8641	-.8638	-.8438	-.8447	-.8633	-.8536
7270	-.10	-.1975	-.1771	-.0762	.1951	.0110	-.0672	-.0854	-.1111	-.1146	-.0951

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 10

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7273	.161	1824.9	-.13	-.0622	.0151	.0256	-.0622	.0149	.0008	-4.12	.698
7274	.161	1831.7	-.55	-.0771	.0155	.0272	-.0772	.0147	.0010	-4.98	.659
7275	.161	1820.1	2.38	.0263	.0149	.0152	.0268	.0138	.0011	1.76	.047
7276	.161	1818.5	4.02	.0834	.0168	.0091	.0843	.0109	.0012	4.95	.352
7277	.160	1811.1	6.19	.1581	.0217	.0009	.1596	.0045	.0013	7.28	.420
7278	.160	1813.0	8.84	.2515	.0322	-.0103	.2534	-.0068	.0013	7.81	.451
7279	.161	1821.1	10.97	.3420	.0476	-.0272	.3448	-.0183	.0022	7.18	.477
7280	.161	1820.0	13.52	.4489	.0790	-.0441	.4549	-.0281	.0004	5.68	.489
7281	.160	1815.1	15.96	.5652	.1299	-.0610	.5791	-.0305	.0015	4.35	.494
7282	.160	1801.2	18.55	.6905	.1983	-.0776	.7177	-.0316	.0005	3.48	.496
7263	.161	1827.8	20.56	.7923	.2605	-.0920	.8333	-.0343	-.0002	3.04	.498
7264	.161	1821.6	23.16	.8953	.3381	-.1051	.9562	-.0412	.0004	2.65	.497
7285	.161	1832.1	25.62	.9646	.4155	-.1069	1.0494	-.0425	.0008	2.32	.492
7286	.161	1836.8	27.07	.9929	.4604	-.1088	1.0936	-.0420	.0011	2.16	.490
7287	.159	1788.0	-.10	-.0619	.0149	.0259	-.0619	.0148	.0009	-4.16	.703

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 10

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7273	-.13	.0608	-.0225	-.0278	-.0377	.0114	.0866	.1000	.2603	.0850	-.0001	-.0161
7274	-.55	.0694	-.0117	-.0245	-.0371	-.0032	.0571	.0559	.2045	.0142	.0065	-.0052
7275	2.38	.0802	.0680	.0782	.0818	.1419	.2154	.2145	.0658	-.1604	-.1629	-.1329
7276	4.02	.1237	.1124	.1297	.1417	.2033	.2601	.2585	-.2164	-.2661	-.2508	-.2217
7277	6.19	.1743	.1723	.1925	.2129	.2689	.2897	.2883	-.4593	-.4179	-.4118	-.3830
7278	8.84	.2280	.2389	.2599	.2800	.3142	.2681	.2686	-.9164	-.6434	-.6385	-.5045
7279	10.97	.2724	.2911	.3114	.3136	.3277	.1949	.1958	-1.4960	-.8879	-.8480	-.6549
7280	13.52	.3177	.3417	.3533	.3510	.3164	.0498	.0549	-2.1097	-1.1246	-1.0945	-.8502
7281	15.96	.3687	.3912	.3996	.3716	.2773	-.1493	-.1361	-2.5899	-1.3926	-1.3661	-1.1294
7282	18.55	.4250	.4425	.4350	.3683	.2137	-.3854	-.4009	-2.7941	-1.7666	-1.7251	-1.5143
7283	20.56	.4597	.4729	.4544	.3733	.1977	-.4609	-.4609	-2.8532	-2.8847	-2.9306	-2.9879
7284	23.16	.5128	.5107	.4760	.4139	.1343	-.6964	-.7058	-3.2533	-3.4105	-3.5007	-3.9163
7285	25.62	.5543	.5434	.4892	.3237	.0267	-.9299	-.9203	-3.4951	-3.7708	-3.7750	-4.5107
7286	27.07	.5782	.5589	.4951	.3155	-.0102	-1.0193	-1.0097	-3.3563	-3.6534	-3.6937	-4.1140
7287	-.10	.0596	.0077	.0159	.0136	.0426	.1052	.0984	.1250	-.0316	-.0374	-.0430

TEST 63 RUN 10

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7273	-.13	-.0048	-.0130	.0266	-.0378	-.0682	-.0501	-.0341	-.0033	.0604	.2600	.0340
7274	-.55	.0155	.0133	.0588	-.0244	-.0700	-.0685	-.0578	-.0509	.0072	.2505	.0561
7275	2.38	-.0795	-.0854	-.0123	.0505	.0235	.0549	.0732	.1124	.1826	.1625	-.1835
7276	4.02	-.1220	-.1269	-.0401	.0956	.0784	.1078	.1370	.1796	.2383	-.0187	-.3709
7277	6.19	-.1971	-.1995	-.0970	.1272	.1421	.1708	.2107	.2453	.2618	-.4357	-.6335
7278	8.84	-.2831	-.2815	-.1649	.1799	.2084	.2379	.2679	.2789	.2150	-1.1342	-1.0323
7279	10.97	-.3663	-.3641	-.2279	.2189	.2599	.2796	.2881	.2810	.1341	-1.9014	-1.3705
7280	13.52	-.5097	-.5151	-.3714	.2468	.2997	.3186	.3006	.2368	-.0396	-2.9293	-1.7140
7281	15.96	-.7315	-.7437	-.5221	.2987	.3516	.3449	.3068	.1966	-.2135	-3.5992	-2.4454
7282	18.55	-.9603	-.9612	-.8038	.3404	.3906	.3704	.2990	.1347	-.3792	-3.1749	-3.2058
7283	20.56	-1.4392	-1.4465	-.7932	.3729	.4121	.3901	.2814	.1005	-.4854	-2.8400	-2.9845
7284	23.16	-2.1241	-1.8446	-.8341	.4040	.4411	.4046	.2704	.0366	-.6139	-2.6549	-2.7609
7285	25.62	-2.6645	-2.4943	-1.1150	.4376	.4684	.4080	.2504	-.0424	-.7861	-2.7467	-2.9189
7286	27.07	-3.3054	-3.2932	-1.3360	.4479	.4853	.4084	.2589	-.0637	-.8132	-2.6289	-2.7371
7287	-.10	.0031	.0145	.0803	.0227	-.0241	-.0303	-.0495	-.0392	.0271	.2413	.0270

TEST 63 RUN 10

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7273	-.13	-.0135	-.0139	-.0515	-.0371	-.0826	-.1175	-.0956	-.0812	-.0495	.0391	.2297
7274	-.55	.0061	.0109	-.0244	-.0091	-.0798	-.1278	-.1270	-.1157	-.1022	-.0135	.2126
7275	2.38	-.1793	-.1382	-.1233	-.1162	.0142	-.0193	.0076	.0453	.0837	.1803	.0591
7276	4.02	-.3062	-.2441	-.1826	-.1778	.0568	.0482	.0769	.1222	.1642	.2353	-.1827
7277	6.19	-.4965	-.3696	-.2564	-.2458	.1031	.1176	.1648	.2009	.2303	.2304	-.6977
7278	8.84	-.7347	-.5553	-.3606	-.2791	.1559	.2025	.2480	.2689	.2659	.1366	-1.6727
7279	10.97	-.9382	-.7182	-.4507	-.3687	.1978	.2579	.2990	.3005	.2527	-.0070	-2.6741
7280	13.52	-1.1471	-.9161	-.8156	-.8115	.2369	.2967	.3322	.3040	.2054	-.2214	-3.3469
7281	15.96	-1.2842	-.9196	-.7590	-.7856	.2785	.3504	.3614	.3111	.1696	-.3567	-2.8625
7282	18.55	-3.2110	-2.3993	-.9909	-1.0084	.3059	.3986	.4011	.3276	.1636	-.4041	-2.0132
7283	20.56	-3.2413	-2.8438	-2.0258	-1.9622	.3385	.4183	.4166	.3183	.1092	-.4961	-1.7663
7284	23.16	-2.7894	-2.6999	-3.2030	-3.2339	.3801	.4475	.4306	.3005	.0887	-.5398	-1.4212
7285	25.62	-2.9071	-2.5838	-3.1888	-3.1213	.4115	.4819	.4418	.2763	.0133	-.6782	-1.4742
7286	27.07	-2.7824	-2.3968	-2.7215	-2.2443	.4246	.4951	.4438	.2585	-.0348	-.7589	-1.5040
7287	-.10	.0014	.0180	-.0150	-.0128	-.0702	-.1235	-.1302	-.1120	-.0738	.0288	.2268

TEST 63 RUN 10

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7273	-.13	.0327	-.0167	-.0816	-.0880	-.1069	-.0927	-.0820	-.1342	-.1417	-.1187	-.0923
7274	-.55	.0474	-.0032	-.0508	-.0551	-.0767	-.0694	-.0846	-.1494	-.1622	-.1595	-.1367
7275	2.38	-.2190	-.2080	-.2350	-.1956	-.1805	-.1398	.0117	-.0353	-.0182	.0168	.0649
7276	4.02	-.4122	-.3487	-.3426	-.2869	-.2506	-.1950	.0518	.0118	.0393	.0845	.1403
7277	6.19	-.7561	-.5800	-.5217	-.3874	-.3511	-.2526	.1019	.0809	.1213	.1697	.2161
7278	8.64	-1.2245	-.8249	-.7576	-.5645	-.4752	-.3340	.1645	.1786	.2091	.2556	.2691
7279	10.97	-1.5390	-1.0485	-.9189	-.7122	-.5879	-.4518	.2001	.2430	.2761	.3002	.2783
7280	13.52	-1.7805	-1.2414	-1.0932	-.9315	-.8018	-.6932	.2064	.2987	.3475	.3375	.2647
7281	15.96	-2.4053	-1.9896	-1.7664	-1.2750	-1.0120	-.8576	.2380	.3312	.3981	.3614	.2323
7282	18.55	-1.8835	-1.8764	-1.8273	-1.7055	-1.6396	-1.2100	.2840	.3464	.4335	.3844	.2270
7283	20.56	-1.7698	-1.7567	-1.7621	-1.6396	-1.5339	-1.5817	.3132	.3617	.4431	.3953	.2104
7284	23.16	-1.4234	-1.4703	-1.5750	-1.4683	-1.5239	-1.4803	.3569	.3741	.4592	.3822	.1220
7285	25.62	-1.5269	-1.6189	-1.7232	-1.6281	-1.6128	-1.5657	.3913	.3917	.4704	.3719	.0851
7286	27.07	-1.5910	-1.6945	-1.8295	-1.6723	-1.5066	-1.4769	.4011	.3959	.4745	.3673	.0838
7287	-.10	.0335	-.0084	-.0577	-.0775	-.1148	-.1126	-.0992	-.1493	-.1365	-.1071	-.0707

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 10

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7273	-.13	-.0485	.2477	-.0248	-.0655	-.0833	-.0847	-.0851	-.0644	-.0495	-.0434	-.0796
7274	-.55	-.0749	.2527	.0288	-.0199	-.0557	-.0794	-.0890	-.0737	-.0611	-.0501	-.0799
7275	2.38	.1382	.2180	-.2378	-.2457	-.2381	-.2179	-.1987	-.1475	-.0935	-.0781	-.0979
7276	4.02	.1964	.0356	-.4413	-.3943	-.3710	-.2971	-.2749	-.1937	-.1130	-.0925	-.1058
7277	6.19	.2223	-.3997	-.7592	-.6306	-.4926	-.4049	-.3616	-.2516	-.1373	-.1084	-.1190
7278	8.84	.1600	-1.1586	-1.2521	-.8716	-.7139	-.5485	-.4598	-.3342	-.1674	-.1289	-.1371
7279	10.97	.0479	-1.9978	-1.5256	-1.1000	-.8951	-.6924	-.6096	-.4905	-.1727	-.1382	-.1475
7280	13.52	-.1400	-3.0954	-1.9033	-1.3271	-1.1508	-1.0412	-.9213	-.4479	-.2070	-.1729	-.1737
7281	15.96	-.3245	-3.7952	-1.9075	-1.5893	-1.5704	-1.5758	-1.2667	-.4989	-.3322	-.2845	-.2818
7282	18.55	-.4038	-3.2891	-2.2708	-2.1297	-2.0580	-1.4051	-.8946	-.7493	-.5330	-.4629	-.4276
7283	20.56	-.4917	-3.2922	-2.5534	-2.5423	-2.3559	-1.1936	-.8859	-.9332	-.7764	-.6651	-.6247
7284	23.16	-.7445	-3.9886	-3.0157	-2.8641	-2.3773	-1.3366	-1.0570	-.9504	-.9265	-.8243	-.7650
7285	25.62	-.9081	-4.0220	-3.2450	-3.2549	-2.5887	-1.3300	-1.1950	-1.2167	-1.0251	-.8889	-.8297
7286	27.07	-.9339	-3.8992	-3.2791	-3.3354	-2.3706	-1.3290	-1.2530	-1.2748	-.9923	-.8792	-.8062
7287	-.10	-.0472	.2615	.0154	-.0235	-.0523	-.0863	-.1066	-.1009	-.0966	-.0805	-.0944

TEST 63 RUN 10

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7273	-.13	-.0980	-.1313	-.3107	-.1574	-.1606	-.1648	-.1517	-.1224	-.0310	.2448	.0141
7274	-.55	-.0891	-.1116	-.2928	-.1549	-.1723	-.1903	-.1921	-.1833	-.0956	.2289	.0368
7275	2.38	-.1038	-.1174	-.2732	-.0737	-.0611	-.0464	-.0154	.0379	.1396	.0923	-.2621
7276	4.02	-.1042	-.1199	-.2413	-.0426	-.0064	.0153	.0631	.1202	.1956	-.2113	-.4772
7277	6.19	-.1165	-.1272	-.2516	.0001	.0592	.0956	.1477	.1891	.1905	-.8122	-.8319
7278	8.84	-.1268	-.1276	-.2435	.0611	.1350	.1639	.2081	.2124	.0655	-1.8413	-1.3203
7279	10.97	-.1381	-.1410	-.2253	.1015	.1858	.2068	.2271	.1896	-.1019	-2.9439	-1.7314
7280	13.52	-.1636	-.1560	-.2250	.1536	.2400	.2475	.2304	.1183	-.3902	-4.1753	-1.9164
7281	15.96	-.2649	-.2351	-.3488	.1981	.2777	.2820	.2418	.0849	-.5137	-2.9142	-2.6870
7282	18.55	-.3994	-.3464	-.4753	.2359	.3084	.2979	.2298	.0359	-.6313	-2.4731	-2.3675
7283	20.56	-.5662	-.4756	-.5731	.2635	.3311	.3143	.2312	.0223	-.6498	-1.9549	-1.9666
7284	23.16	-.7032	-.5981	-.6950	.3007	.3533	.3125	.1852	-.0908	-.9218	-2.2615	-2.2413
7285	25.62	-.7631	-.6638	-.7987	.3284	.3710	.3229	.1786	-.1138	-.9100	-1.8025	-1.8885
7286	27.07	-.7748	-.7007	-.8290	.3437	.3873	.3327	.1804	-.1156	-.8683	-1.6507	-1.6717
7287	-.10	-.0834	-.0874	-.2495	-.1116	-.1385	-.1613	-.1851	-.1696	-.0740	.2214	.0049

TEST 63 RUN 10

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7273	-.13	-.0837	-.0996	-.1122	-.1244	-.1176	-.0985	-.0974	-.2227	-.1667	-.1766	-.1810
7274	-.55	-.0576	-.0663	-.0764	-.0899	-.0925	-.0902	-.0974	-.2350	-.2003	-.2134	-.2251
7275	2.38	-.2835	-.2547	-.2241	-.2127	-.1671	-.1055	-.1047	-.2330	-.1283	-.1100	-.0824
7276	4.02	-.4502	-.4002	-.3032	-.2776	-.2100	-.1110	-.1053	-.2156	-.0920	-.0453	-.0054
7277	6.19	-.7203	-.5435	-.4339	-.3688	-.2621	-.1200	-.1129	-.1930	-.0577	.0189	.0662
7278	8.84	-1.0225	-.7811	-.5960	-.4890	-.3256	-.1466	-.1323	-.1929	-.0154	.0848	.1388
7279	10.97	-1.2421	-.9414	-.7309	-.6510	-.5294	-.1611	-.1430	-.2400	.0169	.1251	.1748
7280	13.52	-1.3215	-1.2809	-1.3218	-1.2989	-.7868	-.1495	-.1391	-.2544	.0597	.1802	.2233
7281	15.96	-2.8507	-2.3957	-1.4261	-1.0359	-.7979	-.2275	-.1948	-.2469	.0899	.2082	.2463
7282	18.55	-2.5149	-2.4654	-2.2322	-1.9927	-1.2431	-.4679	-.4215	-.4373	.1272	.2470	.2789
7283	20.56	-1.9494	-1.9836	-2.1825	-2.0380	-1.3698	-.7196	-.6445	-.6354	.1535	.2680	.2917
7284	23.16	-2.1890	-2.1945	-2.4332	-2.0599	-1.3869	-.8071	-.7527	-.7159	.1845	.2932	.3019
7285	25.62	-1.8171	-1.8305	-1.9106	-1.7195	-1.3412	-.8138	-.7591	-.7676	.2085	.3077	.3077
7286	27.07	-1.6955	-1.6227	-1.6625	-1.4965	-1.2054	-.8128	-.7744	-.7913	.2157	.3127	.3136
7287	-.10	-.0673	-.0663	-.0726	-.0927	-.1056	-.1068	-.1273	-.2666	-.2010	-.1952	-.1791

TEST 63 RUN 10

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7273	-.13	-.1826	-.1660	-.0682	.1948	-.0006	-.0769	-.1004	-.0948	-.1140	-.0840
7274	-.55	-.2244	-.2071	-.1240	.1631	.0489	-.0380	-.0644	-.0931	-.1002	-.0870
7275	2.38	-.0319	.0299	.1384	.1931	-.2484	-.2692	-.2406	-.2162	-.1993	-.1405
7276	4.02	.0572	.1199	.1886	.0383	-.4953	-.4459	-.3879	-.3178	-.2817	-.1820
7277	6.19	.1333	.1839	.1688	-.3761	-.8732	-.7311	-.6066	-.4360	-.3920	-.2314
7278	8.84	.1918	.1996	.0411	-1.1987	-1.5584	-1.0409	-.7699	-.5890	-.4828	-.2850
7279	10.97	.2066	.1581	-.1767	-2.1123	-1.9010	-1.2590	-.8628	-.6399	-.5424	-.4543
7280	13.52	.2181	.1022	-.4075	-2.8555	-1.6625	-1.0983	-1.0401	-1.0213	-1.0027	-1.0083
7281	15.96	.2379	.1046	-.3879	-1.8893	-1.8009	-1.7869	-1.6916	-1.5566	-1.3825	-1.1692
7282	18.55	.2438	.0928	-.3913	-1.4080	-1.2852	-1.2746	-1.2355	-1.2005	-1.2100	-1.1654
7283	20.56	.2371	.0631	-.4377	-1.2642	-1.1631	-1.1768	-1.1364	-1.0818	-1.0535	-.9842
7284	23.16	.2138	-.0055	-.5790	-1.3079	-1.2307	-1.2320	-1.1947	-1.1315	-1.0788	-.9699
7285	25.62	.2083	-.0339	-.5960	-1.0877	-1.0607	-1.0357	-.9895	-.9201	-.8399	-.7743
7286	27.07	.2092	-.0326	-.5489	-.9277	-.9050	-.8935	-.8956	-.8274	-.7990	-.7764
7287	-.10	-.1574	-.1422	-.0592	.2013	-.0113	-.0982	-.1157	-.0797	-.1115	-.0753

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 11

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7301	.161	1819.4	-.13	-.0600	.0149	.0250	-.0601	.0148	.0009	-4.02	.702
7302	.161	1820.1	-1.63	-.1140	.0169	.0316	-.1144	.0137	.0008	-6.74	.608
7303	.160	1809.9	2.42	.0300	.0148	.0144	.0306	.0135	.0011	2.03	.110
7304	.161	1830.5	3.99	.0841	.0167	.0085	.0851	.0108	.0011	5.05	.357
7305	.160	1810.9	8.72	.2502	.0316	-.0106	.2521	-.0067	.0014	7.91	.452
7306	.160	1810.8	13.63	.4517	.0807	-.0424	.4580	-.0280	-.0000	5.60	.486
7307	.161	1815.0	18.50	.6889	.1988	-.0740	.7164	-.0301	-.0000	3.47	.493
7308	.161	1819.1	23.20	.9022	.3440	-.1051	.9648	-.0392	.0007	2.62	.497
7309	.161	1827.8	27.10	1.0332	.4790	-.1210	1.1380	-.0443	.0006	2.16	.495
731C	.161	1815.1	-.11	-.0601	.0148	.0252	-.0601	.0147	.0009	-4.07	.704

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 11

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7301	-.13	.0734	.0027	-.0100	-.0120	.0150	.0842	.0875	.2237	-.0082	-.0072	-.0175
7302	-1.63	.0422	-.0511	-.0685	-.0740	-.0699	-.0131	-.0174	.2508	.0889	.0648	.0417
7303	2.42	.0920	.0813	.0950	.0907	.1448	.2186	.2153	.1332	-.1407	-.1676	-.1458
7304	3.99	.1163	.1100	.1222	.1263	.1851	.2620	.2616	-.0564	-.2546	-.2617	-.2228
7305	8.72	.2264	.2393	.2610	.2613	.2890	.2688	.2675	-.9616	-.7111	-.6326	-.4960
7306	13.63	.3185	.3413	.3593	.3559	.3154	.0453	.0529	-1.9653	-1.1204	-1.1057	-.7555
7307	18.50	.4210	.4388	.4274	.4017	.2176	-.3816	-.3906	-3.3106	-1.7810	-1.7491	-1.4660
7308	23.20	.5186	.5144	.4784	.3451	.1037	-.7213	-.7169	-3.3801	-3.6478	-3.6043	-4.1695
7309	27.10	.5787	.5586	.4946	.3631	-.0268	-1.0385	-1.0354	-3.4106	-3.7513	-3.7487	-4.0432
7310	-.11	.0668	-.0128	-.0192	-.0167	-.0003	.0876	.0980	.2707	.0443	-.0068	-.0162

TEST 63 RUN 11

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7301	-.13	-.0012	-.0015	.0474	-.0092	-.0483	-.0485	-.0342	-.0196	.0380	.2510	.0201
7302	-1.63	.0503	.0487	.0788	-.0357	-.0998	-.1078	-.1228	-.1181	-.0745	.2344	.1188
7303	2.42	-.0796	-.0826	-.0101	.0563	.0283	.0514	.0779	.1172	.1932	.1570	-.1809
7304	3.99	-.1173	-.1179	-.0463	.0869	.0804	.1071	.1421	.1783	.2394	-.0076	-.3498
7305	8.72	-.2791	-.2794	-.1498	.1817	.2091	.2389	.2721	.2824	.2217	-1.1002	-1.0110
7306	13.63	-.5350	-.5362	-.3682	.2553	.2968	.3153	.3051	.2335	-.0548	-2.9614	-1.7331
7307	18.50	-.9585	-.9767	-.7782	.3418	.3848	.3747	.3013	.1354	-.3865	-2.9492	-3.0213
7308	23.20	-1.8239	-1.8598	-.8469	.4159	.4446	.3976	.2645	.0286	-.6489	-2.7301	-2.8952
7309	27.10	-3.4852	-3.3431	-1.3515	.4535	.4730	.4042	.2350	-.0818	-.8609	-2.7557	-2.9177
7310	-.11	.0033	.0015	.0450	-.0088	-.0620	-.0563	-.0439	-.0104	.0532	.2552	.0275

TEST 63 RUN 11

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7301	-.13	-.0245	-.0198	-.0387	-.0457	-.0649	-.1015	-.1009	-.0863	-.0676	.0192	.2129
7302	-1.63	.0690	.0579	.0138	.0123	-.0861	-.1553	-.1701	-.1752	-.1781	-.1114	.1711
7303	2.42	-.1798	-.1470	-.1287	-.1380	.0209	-.0109	.0089	.0475	.0899	.1862	.0621
7304	3.99	-.3096	-.2570	-.1800	-.1757	.0627	.0422	.0703	.1104	.1549	.2243	-.2025
7305	8.72	-.7190	-.5449	-.3511	-.2969	.1585	.1845	.2137	.2423	.2498	.1359	-1.6014
7306	13.63	-1.1574	-.9248	-.7863	-.7978	.2464	.2732	.2912	.2667	.1765	-.2477	-3.3866
7307	18.50	-3.5508	-2.8563	-.9395	-.9773	.3311	.3562	.3448	.2810	.1174	-.4994	-2.3187
7308	23.20	-2.9378	-2.8418	-3.4400	-3.4429	.4103	.4122	.3740	.2583	.0441	-.6534	-1.7346
7309	27.10	-2.9196	-2.7568	-3.0988	-2.9378	.4617	.4415	.3637	.2129	-.0706	-.8064	-1.5903
7310	-.11	-.0096	-.0043	-.0323	-.0326	-.0632	-.1040	-.1003	-.0849	-.0678	.0264	.2152

TEST 63 RUN 11

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7301	-.13	.0203	-.0333	-.0814	-.0819	-.0929	-.0816	-.0653	-.1452	-.1471	-.1347	-.1029
7302	-1.63	.1170	.0579	-.0028	-.0113	-.0323	-.0383	-.0834	-.1991	-.2311	-.2397	-.2327
7303	2.42	-.2203	-.2105	-.2367	-.1979	-.1874	-.1518	-.0122	-.0481	-.0200	.0209	.0672
7304	3.99	-.4129	-.3513	-.3455	-.2813	-.2397	-.1901	.0440	.0155	.0515	.0975	.1462
7305	8.72	-1.1993	-.7931	-.7476	-.5243	-.4510	-.3330	.1304	.1695	.2240	.2467	.2408
7306	13.63	-1.7950	-1.2622	-1.1002	-.8713	-.7329	-.6738	.2121	.2822	.3234	.2977	.1944
7307	18.50	-2.2379	-2.2008	-2.2250	-2.2833	-2.3596	-1.8278	.2743	.3627	.3802	.3156	.1694
7308	23.20	-1.7444	-1.8256	-1.9437	-1.8171	-1.9051	-2.1100	.3317	.4226	.4126	.2868	.0739
7309	27.10	-1.7088	-1.7721	-1.9043	-1.8752	-1.9889	-2.0895	.3812	.4673	.4304	.2525	-.0255
7310	-.11	.0223	-.0301	-.0712	-.0687	-.0807	-.0769	-.0574	-.1401	-.1441	-.1276	-.1052

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 11

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7301	-.13	-.0336	.2660	.0047	-.0512	-.0713	-.0976	-.1128	-.0852	-.0700	-.0548	-.0810
7302	-1.63	-.2022	.1900	.1089	.0465	.0131	-.0296	-.0546	-.0456	-.0529	-.0424	-.0696
7303	2.42	.1531	.2108	-.2525	-.2458	-.2501	-.2313	-.2194	-.1606	-.1028	-.0814	-.1034
7304	3.99	.1923	-.0167	-.4589	-.4076	-.3761	-.3218	-.2843	-.1995	-.1059	-.0839	-.1029
7305	8.72	.0997	-1.3602	-1.2365	-.9350	-.7705	-.6233	-.5083	-.3477	-.1749	-.1343	-.1387
7306	13.63	-.2452	-2.5564	-1.6893	-1.3623	-1.2606	-1.0075	-.9356	-.7266	-.4058	-.3224	-.3060
7307	18.50	-.3094	-1.3934	-1.3250	-1.3263	-1.3227	-1.2570	-1.1567	-1.2738	-.6827	-.5642	-.5145
7308	23.20	-.5346	-1.3749	-1.4463	-1.3830	-1.3334	-1.3166	-1.2005	-1.1340	-.9531	-.8152	-.7715
7309	27.10	-.7757	-1.5367	-1.5819	-1.5182	-1.5223	-1.4064	-1.2690	-1.1829	-1.0959	-.9701	-.8934
7310	-.11	-.0432	.2533	-.0078	-.0586	-.0786	-.0990	-.1097	-.0811	-.0645	-.0496	-.0746

TEST 63 RUN 11

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7301	-.13	-.0891	-.1144	-.2869	-.1397	-.1530	-.1684	-.1675	-.1452	-.0511	.2337	-.0040
7302	-1.63	-.0813	-.1071	-.2861	-.1725	-.2110	-.2427	-.2700	-.2735	-.2112	.1811	.1084
7303	2.42	-.1049	-.1228	-.2992	-.0712	-.0608	-.0436	-.0134	.0355	.1427	.0913	-.2567
7304	3.99	-.1024	-.1184	-.2918	-.0336	.0034	.0206	.0645	.1229	.2028	-.1536	-.4463
7305	8.72	-.1334	-.1285	-.2746	.0810	.1574	.1834	.2339	.2499	.1372	-1.6417	-1.2585
7306	13.63	-.2819	-.2281	-.4027	.1679	.2851	.3112	.3113	.2173	-.2416	-3.8664	-1.9915
7307	18.50	-.4462	-.3716	-.4807	.2229	.3493	.3920	.3555	.1929	-.4054	-2.9904	-1.8935
7308	23.20	-.6959	-.5903	-.6951	.2921	.3601	.4090	.3684	.1224	-.6642	-3.0735	-2.7256
7309	27.10	-.8312	-.7096	-.8059	.3384	.3741	.4279	.3699	.0826	-.7851	-2.8194	-2.9170
7310	-.11	-.0863	-.1155	-.2944	-.1496	-.1600	-.1709	-.1728	-.1347	-.0400	.2378	.0049

TEST 63 RUN 11

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7301	-.13	-.0908	-.0975	-.0991	-.1121	-.1017	-.0893	-.0961	-.2344	-.1861	-.1966	-.1988
7302	-1.63	.0144	-.0136	-.0250	-.0553	-.0694	-.0816	-.0900	-.2394	-.2178	-.2529	-.2797
7303	2.42	-.2910	-.2625	-.2319	-.2188	-.1689	-.1032	-.1045	-.2230	-.1264	-.1072	-.0790
7304	3.99	-.4426	-.3801	-.3002	-.2675	-.1995	-.1076	-.1063	-.2047	-.0955	-.0532	-.0166
7305	8.72	-.9672	-.7488	-.5672	-.4659	-.3256	-.1502	-.1316	-.2052	-.0213	.0818	.1362
7306	13.63	-1.3516	-1.1719	-1.1255	-.8930	-.3733	-.1748	-.1493	-.2052	.0587	.1730	.2166
7307	18.50	-1.6187	-1.5082	-1.0514	-.6865	-.6683	-.5312	-.4963	-.4865	.1246	.2421	.2719
7308	23.20	-2.6105	-1.7674	-1.0395	-.9055	-.8682	-.7577	-.7271	-.7144	.1835	.2874	.2937
7309	27.10	-2.6548	-1.6019	-1.1341	-1.1355	-1.0902	-.8768	-.8352	-.7991	.2203	.3142	.3014
7310	-.11	-.0838	-.0897	-.0957	-.1068	-.1056	-.0935	-.1004	-.2376	-.1893	-.2010	-.2031

TEST 63 RUN 11

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7301	-.13	-.1939	-.1646	-.0708	.2007	.0069	-.0713	-.0967	-.1137	-.1212	-.0970
7302	-1.63	-.3050	-.3122	-.2564	.0213	.1159	.0313	-.0073	-.0482	-.0667	-.0674
7303	2.42	-.0318	.0303	.1356	.1852	-.2808	-.2846	-.2645	-.2396	-.2210	-.1557
7304	3.99	.0430	.1141	.1865	.0472	-.4926	-.4446	-.3823	-.3200	-.2770	-.1788
7305	8.72	.1922	.2031	.0399	-1.1421	-1.4836	-1.0126	-.7588	-.5780	-.4752	-.2824
7306	13.63	.2087	.0798	-.4609	-3.0802	-2.0502	-1.2018	-1.0758	-1.0582	-1.0292	-.9788
7307	18.50	.2299	.0609	-.4953	-1.8306	-1.6791	-1.6859	-1.7900	-2.0335	-1.6837	-.8468
7308	23.20	.1921	-.0599	-.7433	-1.7673	-1.6744	-1.6243	-1.6110	-1.7201	-1.4183	-1.0079
7309	27.10	.1637	-.1223	-.7958	-1.3900	-1.3927	-1.3598	-1.3347	-1.2862	-1.1545	-.9636
7310	-.11	-.1940	-.1593	-.0623	.2066	.0153	-.0657	-.0906	-.1144	-.1234	-.1028

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 12

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7336	.174	2095.1	-.11	-.0451	.0130	.0201	-.0452	.0130	.0009	-3.46	.720
7337	.161	1800.6	-1.80	-.1138	.0176	.0311	-.1143	.0140	.0010	-6.46	.605
7339	.161	1807.3	2.02	.0228	.0148	.0147	.0233	.0140	.0012	1.54	.004
7340	.161	1798.6	3.59	.0772	.0162	.0089	.0780	.0113	.0013	4.76	.348
7341	.161	1800.5	6.27	.1701	.0218	-.0012	.1714	.0031	.0013	7.80	.429
7342	.160	1792.5	8.68	.2568	.0313	-.0124	.2586	-.0078	.0014	8.20	.456
7343	.161	1796.2	10.93	.3467	.0469	-.0272	.3493	-.0197	.0021	7.39	.476
7344	.160	1792.1	13.23	.4429	.0749	-.0407	.4483	-.0285	.0009	5.91	.485
7345	.161	1794.2	15.73	.5581	.1290	-.0523	.5722	-.0271	.0001	4.33	.485
7346	.160	1787.2	18.29	.6752	.1942	-.0672	.7021	-.0275	.0007	3.48	.488
7347	.160	1791.3	20.46	.7679	.2543	-.0794	.8084	-.0301	.0006	3.02	.490
7349	.161	1807.1	22.78	.8725	.3279	-.0957	.9314	-.0355	.0007	2.66	.493
7350	.160	1790.8	25.28	.9686	.4133	-.1121	1.0523	-.0398	-.0002	2.34	.495
7351	.161	1799.7	26.41	1.0115	.4556	-.1190	1.1086	-.0418	.0003	2.22	.496
7352	.161	1801.2	-.32	-.0610	.0147	.0248	-.0610	.0143	.0012	-4.15	.695

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 12

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7336	-.11	.0502	-.0060	-.0099	-.0214	.0098	.0642	.0641	.0795	-.0270	-.0249	-.0328
7337	-1.80	.0353	-.0544	-.0736	-.1003	-.0737	-.0373	-.0261	.2263	.0901	.0682	.0472
7339	2.02	.0761	.0686	.0730	.0738	.1341	.2088	.2079	.0807	-.1331	-.1405	-.1218
7340	3.59	.1251	.1185	.1302	.1402	.1986	.2621	.2601	-.0810	-.2438	-.2429	-.2067
7341	6.27	.1851	.1817	.2042	.2191	.2730	.2907	.2913	-.4640	-.4400	-.4279	-.3782
7342	8.68	.2276	.2359	.2636	.2804	.3200	.2721	.2697	-.9246	-.6749	-.6267	-.5167
7343	10.93	.2854	.3047	.3258	.3359	.3435	.2074	.2010	-1.5584	-.9388	-.8834	-.6915
7344	13.23	.3173	.3401	.3557	.3580	.3209	.0647	.0618	-2.2460	-1.2182	-1.0984	-.8328
7345	15.73	.3777	.3998	.4062	.3856	.2863	-.1374	-.1356	-3.0863	-1.5068	-1.3799	-1.1193
7346	18.29	.4225	.4453	.4354	.3839	.2131	-.4005	-.3966	-3.6088	-1.8806	-1.7339	-1.4802
7347	20.46	.4656	.4790	.4593	.3965	.1942	-.4765	-.4754	-3.0644	-2.8763	-2.8357	-2.6773
7349	22.78	.5139	.5169	.4808	.3762	.1343	-.6643	-.6561	-3.2039	-3.3202	-3.3868	-3.6921
7350	25.28	.5525	.5453	.4941	.3824	.0552	-.8862	-.8776	-3.3773	-3.6426	-3.7152	-4.3317
7351	26.41	.5725	.5549	.4915	.3823	.0145	-.9726	-.9732	-3.3586	-3.5506	-3.6924	-4.3213
7352	-.32	.0612	-.0192	-.0211	-.0304	.0175	.0926	.0978	.2634	.0447	.0046	-.0091

TEST 63 RUN 12

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7336	-.11	-.0061	-.0077	.0360	-.0086	-.0278	-.0229	-.0220	-.0069	.0473	.2125	.0107
7337	-1.80	.0498	.0500	.0817	-.0258	-.1029	-.1069	-.1115	-.1122	-.0775	.2354	.1189
7339	2.02	-.0641	-.0617	.0010	.0597	.0237	.0489	.0718	.1111	.1849	.1960	-.1611
7340	3.59	-.1094	-.1148	-.0345	.0926	.0807	.1079	.1395	.1737	.2403	.0165	-.3232
7341	6.27	-.1941	-.1933	-.0898	.1397	.1507	.1804	.2150	.2476	.2591	-.4835	-.6594
7342	8.68	-.2861	-.2792	-.1602	.1761	.2040	.2415	.2705	.2840	.2235	-1.1034	-1.0588
7343	10.93	-.4044	-.3947	-.2490	.2090	.2460	.2777	.2917	.2758	.1269	-1.8758	-1.3879
7344	13.23	-.5080	-.5041	-.3570	.2514	.2942	.3164	.3039	.2434	-.0288	-2.7757	-1.7018
7345	15.73	-.7462	-.7243	-.5437	.2987	.3586	.3556	.3191	.1990	-.1997	-3.3105	-3.3862
7346	18.29	-.9374	-.9117	-.7614	.3381	.3885	.3769	.3103	.1531	-.3428	-2.7468	-2.7440
7347	20.46	-1.4755	-1.5109	-.7957	.3793	.4249	.4008	.2994	.1004	-.4711	-2.8027	-2.9721
7349	22.78	-2.3657	-2.0724	-.9603	.4076	.4459	.4029	.2772	.0260	-.6418	-2.8683	-3.0312
7350	25.28	-2.9315	-2.8275	-1.1068	.4344	.4744	.4173	.2459	-.0349	-.7619	-2.7615	-2.9502
7351	26.41	-3.3208	-3.2524	-1.2310	.4464	.4794	.4026	.2342	-.0564	-.8100	-2.6831	-2.8106
7352	-.32	.0009	-.0016	.0483	-.0200	-.0602	-.0420	-.0374	-.0075	.0585	.2686	.0426

TEST 63 RUN 12

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7336	-.11	-.0279	-.0271	-.0411	-.0447	-.0431	-.0814	-.0770	-.0613	-.0480	.0393	.1791
7337	-1.80	.0762	.0646	.0158	.0070	-.0553	-.1602	-.1736	-.1790	-.1876	-.1125	.1693
7339	2.02	-.1545	-.1217	-.1151	-.1037	.0239	-.0173	.0061	.0386	.0826	.1814	.0910
7340	3.59	-.2799	-.2366	-.1686	-.1677	.0585	.0379	.0631	.1087	.1505	.2283	-.1244
7341	6.27	-.5038	-.3806	-.2778	-.2607	.1014	.1127	.1484	.1911	.2268	.2286	-.7743
7342	8.68	-.7289	-.5503	-.3908	-.3592	.1465	.1813	.2145	.2421	.2519	.1326	-1.6028
7343	10.93	-.9658	-.7413	-.5427	-.4765	.1886	.2132	.2389	.2557	.2294	-.0199	-2.5052
7344	13.23	-1.1560	-.8980	-.7332	-.7170	.2349	.2681	.2806	.2710	.1900	-.2192	-3.3018
7345	15.73	-1.8606	-.8208	-.7218	-.7011	.2878	.3273	.3239	.2915	.1650	-.3328	-2.5392
7346	18.29	-2.8751	-2.6983	-1.8310	-1.4289	.3233	.3587	.3478	.2916	.1358	-.4187	-1.9369
7347	20.46	-3.2567	-3.1171	-2.2658	-2.1082	.3556	.3863	.3679	.2885	.0803	-.5393	-1.8591
7349	22.78	-3.2083	-3.1418	-2.9371	-2.8726	.3951	.4139	.3731	.2674	.0373	-.6385	-1.7640
7350	25.28	-2.9671	-2.7979	-3.0661	-3.4655	.4142	.4311	.3726	.2450	-.0086	-.6965	-1.6074
7351	26.41	-2.8253	-2.6766	-2.8636	-2.8698	.4417	.4366	.3658	.2252	-.0388	-.7657	-1.5616
7352	-.32	-.0012	.0106	-.0296	-.0364	-.0644	-.1063	-.1058	-.0955	-.0640	.0407	.2231

TEST 63 RUN 12

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7336	-.11	-.0048	-.0444	-.0823	-.0810	-.0879	-.0787	-.0434	-.1144	-.1231	-.1044	-.0755
7337	-1.80	.1179	.0550	.0038	-.0127	-.0381	-.0452	-.0825	-.1940	-.2293	-.2359	-.2315
7339	2.02	-.1923	-.1957	-.2113	-.1804	-.1720	-.1405	-.0078	-.0444	-.0339	.0108	.0527
7340	3.59	-.3820	-.3270	-.3168	-.2626	-.2300	-.1817	.0364	.0082	.0337	.0813	.1332
7341	6.27	-.7785	-.5852	-.5324	-.3847	-.3437	-.2570	.0949	.0950	.1252	.1733	.2081
7342	8.68	-1.2208	-.8178	-.7456	-.5223	-.4372	-.3256	.1437	.1593	.1914	.2291	.2347
7343	10.93	-1.4535	-1.0081	-.9156	-.6409	-.5315	-.4422	.1845	.2034	.2376	.2564	.2078
7344	13.23	-1.7784	-1.2239	-1.0801	-.8363	-.6949	-.6559	.2197	.2485	.2629	.2504	.1693
7345	15.73	-2.3913	-2.2070	-2.0797	-1.5246	-1.3481	-.9590	.2557	.3022	.3068	.2835	.1851
7346	18.29	-1.8767	-1.8602	-1.8888	-1.9627	-2.1504	-1.9431	.2948	.3355	.3394	.2906	.1687
7347	20.46	-1.8392	-1.8791	-1.9346	-1.9808	-2.1494	-2.3092	.3236	.3580	.3521	.2856	.1361
7349	22.78	-1.7705	-1.8484	-1.8935	-1.8379	-2.0467	-2.3154	.3573	.3783	.3565	.2729	.0976
7350	25.28	-1.6282	-1.6658	-1.7728	-1.6550	-1.8984	-2.1348	.3901	.3988	.3527	.2227	-.0113
7351	26.41	-1.6682	-1.7475	-1.8548	-1.8025	-1.9468	-2.0358	.4045	.4127	.3499	.2148	-.0309
7352	-.32	.0286	-.0142	-.0691	-.0639	-.0796	-.0794	-.0552	-.1372	-.1469	-.1319	-.1052

NASA LANGLEY — 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 12

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7336	-.11	-.0137	.2271	-.0181	-.0608	-.0819	-.0980	-.1052	-.0890	-.0711	-.0553	-.0707
7337	-1.80	-.2055	.1905	.1019	.0428	.0042	-.0255	-.0488	-.0395	-.0483	-.0393	-.0685
7339	2.02	.1342	.2156	-.2242	-.2237	-.2278	-.2130	-.2002	-.1484	-.0937	-.0711	-.0955
7340	3.59	.1977	.0539	-.4053	-.3749	-.3462	-.2872	-.2620	-.1958	-.1098	-.0885	-.1068
7341	6.27	.1980	-.5484	-.8548	-.6389	-.5505	-.4460	-.3913	-.2713	-.1357	-.1104	-.1158
7342	8.68	.0962	-1.3331	-1.2425	-.9348	-.7620	-.5816	-.4911	-.3478	-.1821	-.1364	-.1460
7343	10.93	-.0373	-2.0938	-1.5100	-1.0842	-.8825	-.6821	-.6118	-.5356	-.2059	-.1728	-.1789
7344	13.23	-.2440	-2.6282	-1.7140	-1.3952	-1.2046	-.8755	-.7885	-.7751	-.3617	-.2338	-.1905
7345	15.73	-.2244	-1.6972	-1.4540	-1.4764	-1.4909	-1.5889	-1.6815	-1.5112	-.3355	-.2821	-.3003
7346	18.29	-.3104	-1.4329	-1.3584	-1.3998	-1.4021	-1.4194	-1.4488	-1.7699	-.6687	-.5337	-.4922
7347	20.46	-.3847	-1.3269	-1.3001	-1.3273	-1.3682	-1.3681	-1.3024	-1.3948	-.7956	-.6726	-.6031
7349	22.78	-.4399	-1.1862	-1.1761	-1.1889	-1.2031	-1.2297	-1.1977	-1.4590	-.8793	-.7664	-.7194
7350	25.28	-.6632	-1.4711	-1.5323	-1.4976	-1.4916	-1.4804	-1.4382	-1.4574	-1.0148	-.8870	-.8447
7351	26.41	-.7089	-1.4647	-1.5106	-1.4907	-1.4874	-1.4366	-1.4401	-1.4466	-1.0205	-.9281	-.8702
7352	-.32	-.0571	.2494	-.0162	-.0543	-.0743	-.0900	-.0944	-.0721	-.0527	-.0437	-.0753

TEST 63 RUN 12

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7336	-.11	-.0730	-.0896	-.2344	-.1035	-.1096	-.1165	-.1185	-.0974	-.0191	.2075	-.0031
7337	-1.80	-.0765	-.0999	-.2819	-.1534	-.2150	-.2442	-.2733	-.2710	-.2217	.1778	.1170
7339	2.02	-.0968	-.1162	-.2838	-.0709	-.0672	-.0441	-.0157	.0313	.1437	.1352	-.2327
7340	3.59	-.1070	-.1214	-.2696	-.0297	-.0075	.0278	.0713	.1187	.1997	-.1635	-.4467
7341	6.27	-.1068	-.1173	-.2399	.0153	.0886	.1302	.1755	.2050	.1824	-.9537	-.9159
7342	8.68	-.1371	-.1323	-.2656	.0620	.1611	.2095	.2381	.2295	.0718	-1.9791	-1.3850
7343	10.93	-.1659	-.1619	-.2736	.0963	.2160	.2686	.2707	.2077	-.1122	-2.9825	-1.7333
7344	13.23	-.1599	-.1347	-.3275	.1470	.2522	.3088	.2844	.1889	-.2531	-2.9438	-2.3083
7345	15.73	-.2862	-.2617	-.4556	.1806	.2959	.3349	.3008	.1984	-.1598	-1.1098	-1.0721
7346	18.29	-.4268	-.3663	-.5023	.2039	.3298	.3618	.3133	.1930	-.1778	-.8921	-.8633
7347	20.46	-.5483	-.4739	-.6078	.2301	.3619	.3900	.3121	.1651	-.2421	-.8392	-.8337
7349	22.78	-.6719	-.5823	-.6978	.2533	.3841	.3914	.2797	.0780	-.4152	-.9779	-1.0185
7350	25.28	-.7814	-.6773	-.7591	.2884	.4176	.4196	.2726	.0375	-.5084	-1.0136	-1.0446
7351	26.41	-.8195	-.7050	-.8076	.2974	.4219	.4127	.2545	.0063	-.5732	-1.0333	-1.0440
7352	-.32	-.0890	-.1160	-.2985	-.1537	-.1658	-.1646	-.1609	-.1273	-.0349	.2502	.0187

TEST 63 RUN 12

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7336	-.11	-.0796	-.0784	-.0899	-.0960	-.0849	-.0669	-.0725	-.1902	-.1442	-.1495	-.1529
7337	-1.80	.0286	.0056	-.0181	-.0448	-.0629	-.0764	-.0849	-.2274	-.2013	-.2482	-.2709
7339	2.02	-.2703	-.2404	-.2226	-.2052	-.1582	-.0999	-.1004	-.2328	-.1206	-.1068	-.0838
7340	3.59	-.4357	-.3800	-.3121	-.2751	-.2035	-.1089	-.1043	-.2292	-.0932	-.0563	-.0245
7341	6.27	-.7468	-.5920	-.4708	-.4037	-.2724	-.1213	-.1104	-.2249	-.0326	.0297	.0820
7342	8.68	-1.0704	-.8293	-.6669	-.5305	-.3539	-.1581	-.1462	-.2254	.0153	.1021	.1552
7343	10.93	-1.2298	-.9426	-.8636	-.7855	-.5173	-.2271	-.1981	-.2498	.0595	.1705	.2253
7344	13.23	-1.9389	-1.0636	-.9059	-.7095	-.5142	-.3607	-.3166	-.3550	.0844	.2343	.2810
7345	15.73	-1.0639	-1.0454	-.9930	-.8866	-.7887	-.5013	-.4449	-.4805	.0900	.2689	.3203
7346	18.29	-.8646	-.8503	-.8478	-.7760	-.7976	-.5688	-.4736	-.4733	.0999	.2859	.3455
7347	20.46	-.8348	-.8642	-.8230	-.7688	-.7908	-.6389	-.5564	-.5638	.1135	.2957	.3738
7349	22.78	-1.0481	-1.0767	-1.0248	-.9695	-.8897	-.7052	-.6732	-.6667	.1501	.3063	.3892
7350	25.28	-1.0647	-1.0753	-1.0262	-.9589	-.9163	-.8146	-.7668	-.7591	.1796	.3088	.4021
7351	26.41	-1.0969	-1.0960	-1.0281	-1.0008	-.9521	-.8461	-.7848	-.7722	.1986	.3174	.4055
7352	-.32	-.0629	-.0770	-.0944	-.1103	-.1078	-.0943	-.0946	-.2355	-.1810	-.1846	-.1891

TEST 63 RUN 12

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7336	-.11	-.1567	-.1244	-.0341	.1856	.0014	-.0656	-.0803	-.0867	-.0947	-.0723
7337	-1.80	-.2979	-.3035	-.2541	.0192	.1183	.0366	-.0058	-.0411	-.0608	-.0622
7339	2.02	-.0385	.0231	.1317	.2058	-.2247	-.2483	-.2399	-.2181	-.2011	-.1388
7340	3.59	.0412	.1077	.1921	.0893	-.4387	-.4097	-.3590	-.3083	-.2616	-.1748
7341	6.27	.1504	.2082	.1951	-.3361	-.8711	-.7360	-.5900	-.4373	-.3784	-.2306
7342	8.68	.2231	.2413	.0945	-1.0150	-1.4070	-.9647	-.7322	-.5638	-.4665	-.2909
7343	10.93	.2726	.2376	-.0531	-1.7870	-1.8494	-1.2254	-.8745	-.6555	-.5406	-.4320
7344	13.23	.2949	.2017	-.2639	-2.6238	-2.1028	-1.2960	-.9591	-.8641	-.7802	-.3347
7345	15.73	.3154	.1897	-.2868	-2.2726	-1.3081	-1.0390	-1.0141	-1.0307	-.5791	-.3782
7346	18.29	.3232	.1907	-.2935	-2.0461	-1.3520	-1.2213	-1.1605	-.7755	-.5954	-.5015
7347	20.46	.3329	.1659	-.3745	-2.0039	-1.5376	-1.4598	-1.2345	-.7117	-.6531	-.5909
7349	22.78	.3428	.1109	-.5770	-2.7214	-1.9556	-1.8872	-1.5042	-.8934	-.7227	-.6684
7350	25.28	.3559	.1057	-.5889	-2.4568	-1.9648	-1.9566	-1.2008	-.8816	-.8513	-.7821
7351	26.41	.3645	.0877	-.6137	-2.4349	-2.0526	-1.9959	-1.1992	-.8994	-.8981	-.8169
7352	-.32	-.1811	-.1529	-.0494	.2114	.0264	-.0631	-.0876	-.1023	-.1152	-.0928

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 13

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7366	.162	1819.4	-.14	-.0633	.0152	.0251	-.0633	.0150	.0009	-4.16	.689
7367	.161	1806.8	-1.61	-.1173	.0172	.0320	-.1177	.0139	.0008	-6.82	.605
7368	.161	1797.9	2.39	.0255	.0150	.0153	.0261	.0139	.0012	1.70	.033
7369	.161	1793.6	3.61	.0681	.0163	.0108	.0689	.0120	.0012	4.18	.319
7370	.161	1805.1	6.59	.1723	.0233	-.0004	.1739	.0034	.0011	7.39	.426
7371	.161	1800.3	8.89	.2563	.0334	-.0113	.2583	-.0066	.0015	7.66	.453
7372	.161	1793.3	11.51	.3586	.0521	-.0280	.3618	-.0205	.0017	6.88	.476
7373	.160	1783.2	13.45	.4310	.0714	-.0383	.4358	-.0309	.0017	6.04	.483
7374	.160	1789.9	15.87	.5327	.1130	-.0526	.5433	-.0370	.0023	4.71	.489
7375	.161	1795.9	18.06	.6403	.1674	-.0697	.6606	-.0394	.0015	3.82	.494
7376	.160	1792.1	20.53	.7530	.2342	-.0867	.7874	-.0447	.0018	3.22	.497
7377	.161	1801.1	23.12	.8769	.3191	-.1075	.9317	-.0508	.0019	2.75	.501
7378	.161	1804.9	25.46	.9625	.3987	-.1166	1.0404	-.0537	.0010	2.41	.499
7379	.161	1804.5	26.57	.9766	.4306	-.1135	1.0661	-.0516	-.0002	2.27	.495
7381	.161	1793.8	-.12	-.0616	.0146	.0251	-.0616	.0144	.0010	-4.23	.695

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 13

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7366	-.14	.0894	-.0017	-.0158	-.0485	-.0173	.0528	.0516	.0898	-.0011	.0067	.0015
7367	-1.61	.0570	-.0346	-.0502	-.0772	-.0548	-.0102	-.0104	.2020	.0728	.0749	.0468
7368	2.39	.0779	.0727	.0862	.0931	.1441	.2246	.2158	-.0730	-.1502	-.1543	-.1293
7369	3.61	.1137	.1126	.1302	.1367	.1932	.2591	.2640	-.1593	-.2313	-.2263	-.1981
7370	6.59	.1983	.2072	.2326	.2483	.2926	.3031	.2982	-.5375	-.4763	-.4641	-.3712
7371	8.89	.2294	.2565	.2923	.3049	.3278	.2758	.2711	-.8716	-.6483	-.6469	-.5006
7372	11.51	.2803	.3254	.3564	.3546	.3467	.1816	.1786	-1.4120	-.9117	-.8966	-.6937
7373	13.45	.3126	.3701	.3978	.3810	.3419	.0741	.0693	-1.6345	-1.0912	-1.0835	-.8272
7374	15.87	.3599	.4183	.4422	.4053	.3211	-.0909	-.0898	-2.0297	-1.3436	-1.3333	-1.0602
7375	18.06	.4015	.4693	.4822	.4185	.2895	-.2607	-.2524	-2.3620	-1.6533	-1.6267	-1.3296
7376	20.53	.4386	.5085	.5086	.4196	.2517	-.3620	-.3652	-2.7888	-2.6226	-2.5962	-2.0319
7377	23.12	.4815	.5501	.5409	.4177	.2207	-.4706	-.4592	-2.5809	-2.5513	-2.5623	-2.3505
7378	25.46	.5172	.5803	.5517	.3871	.1389	-.6471	-.6354	-2.5831	-2.5477	-2.5373	-2.4705
7379	26.57	.5349	.5975	.5523	.3773	.1023	-.7120	-.7272	-2.5864	-2.5733	-2.5842	-2.5289
7381	-.12	.0731	.0022	-.0048	-.0210	.0213	.0935	.0852	.0938	-.0058	-.0066	-.0133

TEST 63 RUN 13

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7366	-.14	.0177	.0231	.0632	.0105	-.0641	-.0558	-.0575	-.0276	.0355	.2610	.0517
7367	-1.61	.0408	.0411	.0748	-.0282	-.1049	-.1061	-.1130	-.1224	-.0749	.2400	.1156
7368	2.39	-.0753	-.0713	-.0022	.0497	.0300	.0502	.0721	.1201	.1859	.1900	-.1709
7369	3.61	-.1097	-.1052	-.0347	.0912	.0659	.0984	.1246	.1703	.2331	.0554	-.2989
7370	6.59	-.2203	-.2194	-.1049	.1525	.1610	.1998	.2376	.2718	.2840	-.4192	-.6503
7371	8.89	-.3054	-.3132	-.1764	.1967	.2208	.2597	.2891	.3111	.2661	-.9863	-.9958
7372	11.51	-.4173	-.4156	-.2521	.2435	.3027	.3319	.3497	.3346	.1787	-1.8883	-1.3754
7373	13.45	-.5819	-.5881	-.3184	.2535	.3556	.3741	.3767	.3261	.0819	-2.6302	-1.7193
7374	15.87	-.7882	-.8005	-.4750	.2733	.4049	.4273	.3971	.2968	-.0791	-3.8164	-2.1044
7375	18.06	-1.0166	-1.0096	-.6321	.3185	.4342	.4749	.4233	.2665	-.2510	-4.8998	-2.4254
7376	20.53	-1.3550	-1.3695	-.8438	.3484	.4479	.4869	.4278	.2149	-.4619	-5.9976	-2.7236
7377	23.12	-1.7992	-1.8335	-1.1323	.3811	.4700	.4925	.4106	.1528	-.6791	-6.6167	-3.4343
7378	25.46	-2.0024	-2.0519	-1.3248	.4131	.4733	.4885	.3829	.0619	-.8962	-6.7478	-4.3126
7379	26.57	-2.1014	-2.0884	-1.4324	.4231	.4754	.4823	.3664	.0304	-.9715	-6.6656	-4.6089
7381	-.12	.0013	.0053	.0530	.0051	-.0454	-.0360	-.0380	-.0139	.0515	.2579	.0338

TEST 63 RUN 13

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7366	-.14	.0109	.0176	-.0156	.0007	-.0607	-.1046	-.1106	-.0928	-.0796	.0207	.2193
7367	-1.61	.0671	.0645	.0148	.0134	-.0687	-.1724	-.1882	-.1855	-.1866	-.1199	.1721
7368	2.39	-.1688	-.1359	-.1077	-.0822	.0183	-.0137	.0143	.0519	.0933	.1888	.0906
7369	3.61	-.2603	-.2212	-.1523	-.1096	.0528	.0416	.0649	.1039	.1518	.2252	-.0736
7370	6.59	-.5173	-.3883	-.2682	-.2357	.0980	.1238	.1740	.2076	.2368	.2311	-.7963
7371	8.89	-.6863	-.5209	-.3389	-.2895	.1593	.1980	.2404	.2646	.2644	.1491	-1.5370
7372	11.51	-.9601	-.7273	-.4879	-.4347	.2092	.2725	.3071	.3068	.2533	-.0252	-2.8202
7373	13.45	-1.1511	-.9048	-.6599	-.5227	.2405	.3099	.3421	.3160	.2233	-.1963	-3.7584
7374	15.87	-1.3989	-1.1779	-.9000	-.6052	.2838	.3572	.3744	.3225	.1645	-.4418	-4.1139
7375	18.06	-1.7750	-1.6869	-1.0378	-.6472	.3098	.3880	.3945	.3218	.1622	-.4200	-2.4575
7376	20.53	-2.2709	-2.0102	-1.2060	-.7572	.3491	.4171	.4072	.3081	.0958	-.5574	-2.1599
7377	23.12	-2.8175	-2.5202	-1.3218	-1.0589	.3794	.4492	.4119	.2744	.0143	-.7573	-2.1645
7378	25.46	-3.5957	-3.0028	-1.4068	-1.2163	.4144	.4758	.4231	.2423	-.0787	-.9584	-2.2796
7379	26.57	-3.8570	-3.0565	-1.4598	-1.2972	.4299	.4843	.4212	.2298	-.1244	-1.0388	-2.3023
7381	-.12	-.0156	-.0143	-.0314	-.0237	-.0596	-.0995	-.0926	-.0805	-.0601	.0284	.2204

TEST 63 RUN 13

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7366	-.14	.0302	-.0043	-.0494	-.0497	-.0699	-.0622	-.0380	-.1343	-.1458	-.1381	-.1107
7367	-1.61	.1243	.0642	.0088	-.0019	-.0350	-.0410	-.0857	-.1906	-.2257	-.2328	-.2305
7368	2.39	-.2072	-.1974	-.2206	-.1895	-.1809	-.1406	.0088	-.0378	-.0227	.0102	.0590
7369	3.61	-.3478	-.3066	-.3037	-.2591	-.2331	-.1768	.0410	.0014	.0240	.0692	.1222
7370	6.59	-.8085	-.5921	-.5499	-.4158	-.3721	-.2668	.1117	.0939	.1368	.1941	.2331
7371	8.89	-1.1984	-.7993	-.7419	-.5444	-.4500	-.3306	.1726	.1734	.2097	.2560	.2663
7372	11.51	-1.5987	-1.0762	-.9354	-.7254	-.6453	-.4829	.2187	.2580	.2909	.3093	.2791
7373	13.45	-1.8999	-1.2019	-1.0465	-1.0149	-.9697	-.6267	.2226	.3005	.3387	.3306	.2585
7374	15.87	-2.0080	-1.4920	-1.4268	-1.2179	-1.1073	-.9314	.2457	.3389	.3965	.3542	.2312
7375	18.06	-2.2331	-2.1028	-2.0265	-1.8921	-1.5321	-1.0411	.2772	.3575	.4295	.3668	.2073
7376	20.53	-1.9940	-1.9180	-1.8530	-1.9855	-1.7417	-1.2151	.3146	.3730	.4552	.3849	.1606
7377	23.12	-2.1187	-2.0988	-2.1193	-2.2678	-1.9792	-1.3800	.3596	.3809	.4679	.3774	.1086
7378	25.46	-2.3313	-2.2988	-2.3292	-2.3587	-2.0421	-1.5077	.3966	.3971	.4765	.3701	.0670
7379	26.57	-2.3778	-2.3558	-2.3130	-2.3489	-2.0220	-1.5384	.4140	.4095	.4789	.3839	.0631
7381	-.12	.0233	-.0194	-.0687	-.0695	-.0895	-.0807	-.0585	-.1313	-.1454	-.1248	-.1020

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 13

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7366	-.14	-.0242	.2673	-.0106	-.0630	-.0987	-.1270	-.1304	-.1024	-.0701	-.0430	-.0639
7367	-1.61	-.1745	.2175	.1223	.0670	.0229	-.0150	-.0374	-.0391	-.0496	-.0399	-.0748
7368	2.39	.1392	.2177	-.2377	-.2395	-.2301	-.2111	-.1887	-.1418	-.0867	-.0718	-.0919
7369	3.61	.1928	.1028	-.3724	-.3447	-.3277	-.2717	-.2449	-.1794	-.1040	-.0840	-.0992
7370	6.59	.2346	-.4569	-.7925	-.6083	-.5259	-.4214	-.3755	-.2724	-.1512	-.1211	-.1314
7371	8.89	.1591	-1.1363	-1.2100	-.8748	-.7083	-.5442	-.4526	-.3277	-.1557	-.1241	-.1309
7372	11.51	.0180	-2.1718	-1.6124	-1.1529	-.9507	-.7311	-.6474	-.4949	-.1775	-.1489	-.1512
7373	13.45	-.1404	-2.9870	-1.9252	-1.3428	-1.1583	-1.0024	-.8969	-.6801	-.2182	-.1825	-.1774
7374	15.87	-.3592	-4.0562	-2.1539	-1.7124	-1.6263	-1.4735	-1.1970	-.4471	-.3100	-.2717	-.2744
7375	18.06	-.4983	-4.2358	-2.4647	-2.2392	-2.0838	-1.6709	-1.1180	-.5768	-.5130	-.4344	-.4293
7376	20.53	-.6741	-4.5133	-3.1640	-2.9596	-2.8075	-1.6973	-1.0084	-.8309	-.6941	-.6327	-.6011
7377	23.12	-.8464	-4.4119	-3.5342	-3.6672	-3.2758	-1.4830	-1.1436	-1.0662	-.9282	-.8512	-.8152
7378	25.46	-.9868	-4.3593	-3.6446	-4.0675	-3.3924	-1.5274	-1.3841	-1.3296	-1.0673	-.9593	-.8734
7379	26.57	-1.0328	-4.2657	-3.6883	-4.1302	-3.2637	-1.5489	-1.4388	-1.3823	-1.0696	-.9364	-.8512
7381	-.12	-.0237	.2678	-.0016	-.0495	-.0763	-.1006	-.1043	-.0938	-.0694	-.0528	-.0765

TEST 63 RUN 13

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7366	-.14	-.0673	-.0950	-.2798	-.1482	-.1715	-.1824	-.1842	-.1500	-.0566	.2408	.0284
7367	-1.61	-.0844	-.1117	-.3106	-.1662	-.2201	-.2451	-.2712	-.2860	-.2267	.1747	.1106
7368	2.39	-.0951	-.1127	-.2646	-.0673	-.0608	-.0385	-.0077	.0452	.1442	.1112	-.2512
7369	3.61	-.1015	-.1136	-.2448	-.0380	-.0153	.0173	.0570	.1120	.1939	-.1095	-.4139
7370	6.59	-.1255	-.1251	-.2442	.0211	.1005	.1372	.1774	.2111	.1889	-.9348	-.9187
7371	8.89	-.1274	-.1299	-.2333	.0602	.1582	.2087	.2297	.2291	.0774	-1.8716	-1.3456
7372	11.51	-.1395	-.1401	-.2239	.1125	.2257	.2727	.2678	.2046	-.1535	-3.1650	-1.7992
7373	13.45	-.1619	-.1512	-.2440	.1489	.2679	.3092	.2762	.1591	-.3503	-4.0657	-1.9088
7374	15.87	-.2653	-.2338	-.3017	.1810	.3067	.3365	.2869	.1572	-.3592	-2.1798	-2.0562
7375	18.06	-.3874	-.3349	-.3897	.2190	.3395	.3573	.2850	.1240	-.4045	-1.7101	-1.6194
7376	20.53	-.5555	-.4857	-.5363	.2458	.3656	.3774	.2735	.0619	-.5510	-1.6475	-1.6390
7377	23.12	-.7760	-.6506	-.6988	.2733	.3995	.3955	.2544	-.0079	-.7257	-1.6880	-1.7403
7378	25.46	-.8031	-.6798	-.7648	.3204	.4283	.4125	.2250	-.0756	-.8674	-1.7256	-1.7647
7379	26.57	-.7783	-.6761	-.7970	.3271	.4452	.4212	.2272	-.0805	-.8569	-1.5856	-1.6617
7381	-.12	-.0809	-.1025	-.2852	-.1380	-.1500	-.1563	-.1541	-.1376	-.0395	.2396	.0146

TEST 63 RUN 13

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7366	-.14	-.0540	-.0616	-.0803	-.0955	-.0940	-.0922	-.1033	-.2426	-.1978	-.1974	-.1999
7367	-1.61	.0255	.0021	-.0203	-.0601	-.0677	-.0854	-.0960	-.2332	-.2151	-.2524	-.2726
7368	2.39	-.2758	-.2470	-.2185	-.2058	-.1614	-.0988	-.0970	-.2278	-.1192	-.1021	-.0804
7369	3.61	-.4027	-.3491	-.2911	-.2593	-.1915	-.1037	-.1008	-.2243	-.0950	-.0642	-.0271
7370	6.59	-.7538	-.6113	-.4887	-.4115	-.2782	-.1247	-.1120	-.2118	-.0346	.0287	.0871
7371	8.89	-1.0261	-.8024	-.6377	-.5142	-.3307	-.1626	-.1540	-.2280	.0146	.0964	.1531
7372	11.51	-1.2580	-.9683	-.8546	-.8084	-.5106	-.2098	-.1777	-.2638	.0700	.1780	.2313
7373	13.45	-1.2745	-1.1756	-1.2556	-1.2145	-.6519	-.2238	-.1855	-.2581	.0935	.2319	.2779
7374	15.87	-2.0122	-1.8964	-1.5904	-1.2590	-.8164	-.3038	-.2636	-.2801	.0942	.2721	.3237
7375	18.06	-1.5661	-1.4884	-1.4596	-1.3530	-.9251	-.4364	-.4064	-.3894	.1122	.2975	.3587
7376	20.53	-1.5940	-1.5719	-1.5689	-1.3900	-.9348	-.5627	-.5265	-.4977	.1398	.3137	.3937
7377	23.12	-1.7097	-1.6860	-1.6588	-1.4193	-1.0039	-.7239	-.6726	-.6416	.1811	.3325	.4147
7378	25.46	-1.6962	-1.6456	-1.5669	-1.3432	-1.0241	-.8370	-.7715	-.7431	.2087	.3430	.4343
7379	26.57	-1.6248	-1.5402	-1.4313	-1.2721	-.9638	-.8293	-.7864	-.7470	.2137	.3496	.4407
7381	-.12	-.0783	-.0835	-.0911	-.1062	-.0959	-.0798	-.0872	-.2270	-.1813	-.1937	-.1953

TEST 63 RUN 13

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7366	-.14	-.1841	-.1531	-.0487	.2121	.0335	-.0437	-.0788	-.1070	-.1114	-.0947
7367	-1.61	-.2978	-.3111	-.2551	.0208	.1174	.0407	-.0068	-.0414	-.0636	-.0646
7368	2.39	-.0274	.0276	.1368	.2027	-.2383	-.2691	-.2464	-.2243	-.2042	-.1404
7369	3.61	.0313	.1007	.1865	.1133	-.4093	-.3821	-.3367	-.2862	-.2538	-.1639
7370	6.59	.1574	.2081	.1911	-.3664	-.8948	-.7648	-.5847	-.4196	-.3707	-.2178
7371	8.89	.2209	.2381	.1006	-.9626	-1.3981	-.9575	-.7174	-.5542	-.4554	-.2860
7372	11.51	.2679	.2253	-.1149	-1.9294	-1.9298	-1.2749	-.9261	-.6824	-.5793	-.4633
7373	13.45	.2890	.1863	-.3010	-2.7419	-2.2415	-1.4043	-1.0524	-.8968	-.8020	-.4724
7374	15.87	.2988	.1357	-.4908	-3.3100	-2.1216	-1.4307	-1.3461	-1.3526	-1.1674	-.3745
7375	18.06	.3138	.1056	-.6226	-3.5809	-2.0031	-1.6572	-1.6003	-1.4764	-.8365	-.4571
7376	20.53	.3369	.0844	-.7417	-3.6950	-2.2809	-2.0655	-1.9520	-1.2299	-.6939	-.5444
7377	23.12	.3467	.0564	-.8376	-3.5462	-2.7633	-2.8515	-2.2133	-1.0309	-.8389	-.7160
7378	25.46	.3735	.0722	-.7937	-2.9133	-2.5222	-2.8053	-1.7197	-.9812	-.9186	-.8188
7379	26.57	.3960	.1001	-.6749	-2.4542	-2.1241	-2.3110	-1.4035	-.9183	-.8786	-.7732
7381	-.12	-.1822	-.1607	-.0619	.2016	.0197	-.0576	-.0823	-.0998	-.1071	-.0903

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 14

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7387	.160	1788.0	-.13	-.0627	.0152	.0249	-.0627	.0150	.0010	-4.13	.689
7389	.160	1792.1	-.33	-.0700	.0154	.0258	-.0701	.0150	.0010	-4.55	.670
7390	.161	1798.3	2.43	.0280	.0149	.0148	.0286	.0137	.0011	1.88	.080
7391	.161	1796.9	3.99	.0819	.0165	.0090	.0828	.0108	.0012	4.95	.351
7393	.161	1797.5	6.30	.1620	.0216	.0003	.1634	.0037	.0013	7.50	.423
7395	.160	1789.9	8.83	.2505	.0313	-.0100	.2524	-.0075	.0014	8.00	.451
7396	.160	1789.3	11.19	.3431	.0475	-.0246	.3458	-.0200	.0020	7.23	.471
7397	.161	1796.3	13.22	.4280	.0725	-.0373	.4333	-.0273	.0007	5.90	.481
7398	.161	1795.9	16.08	.5572	.1285	-.0527	.5710	-.0309	.0009	4.34	.486
7399	.161	1801.6	17.97	.6438	.1739	-.0644	.6661	-.0333	.0009	3.70	.488
7400	.161	1803.2	20.55	.7594	.2449	-.0811	.7970	-.0372	.0002	3.10	.492
7402	.161	1809.7	25.42	.9669	.4059	-.1125	1.0475	-.0484	.0011	2.38	.496

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 14

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7387	-.13	.0735	.0035	-.0045	-.0190	.0189	.0883	.0880	.1013	.0023	-.0006	-.0147
7389	-.33	.0705	-.0113	-.0188	-.0328	.0028	.0760	.0731	.1004	.0028	-.0013	-.0103
7390	2.43	.0872	.0760	.0833	.0893	.1386	.2170	.2165	-.0955	-.1561	-.1510	-.1090
7391	3.99	.1208	.1134	.1259	.1451	.2031	.2662	.2678	-.2434	-.2458	-.2436	-.1678
7393	6.30	.1731	.1765	.1961	.2195	.2709	.2923	.2917	-.5018	-.4367	-.4066	-.2969
7395	8.83	.2285	.2397	.2617	.2829	.3152	.2695	.2756	-.8241	-.6386	-.5842	-.3791
7396	11.19	.2762	.2913	.3137	.3275	.3340	.1912	.1870	-1.2924	-.8523	-.8122	-.5248
7397	13.22	.3186	.3400	.3532	.3507	.3276	.0825	.0809	-1.5237	-1.0692	-1.0115	-.6309
7398	16.08	.3807	.3997	.4003	.3725	.2856	-.1360	-.1461	-1.9984	-1.3883	-1.3106	-.9030
7399	17.97	.4071	.4299	.4253	.3658	.2373	-.3213	-.3344	-2.2465	-1.6497	-1.6280	-1.1018
7400	20.55	.4717	.4811	.4614	.3653	.1816	-.4480	-.4465	-2.5773	-2.2825	-2.1903	-1.5778

TEST 63 RUN 14

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7387	-.13	.0064	.0041	.0505	-.0124	-.0492	-.0390	-.0310	-.0224	.0449	.2596	.0353
7389	-.33	.0073	.0032	.0562	-.0170	-.0585	-.0529	-.0576	-.0377	.0176	.2538	.0450
7390	2.43	-.0658	-.0689	-.0070	.0560	.0334	.0543	.0810	.1224	.1909	.1777	-.1723
7391	3.99	-.1178	-.1167	-.0371	.0883	.0779	.1100	.1459	.1828	.2436	.0029	-.3383
7393	6.30	-.1911	-.1925	-.0928	.1309	.1448	.1743	.2101	.2487	.2643	-.4117	-.6328
7395	8.83	-.2787	-.2792	-.1607	.1764	.2103	.2379	.2686	.2838	.2235	-1.0777	-1.0369
7396	11.19	-.3640	-.3549	-.2233	.2223	.2538	.2837	.2954	.2764	.1271	-1.9295	-1.3690
7397	13.22	-.4706	-.4793	-.3363	.2482	.2918	.3152	.3071	.2485	.0005	-2.6381	-1.6777
7398	16.08	-.7430	-.7568	-.5740	.2834	.3542	.3522	.3179	.2001	-.1836	-3.2405	-3.3799
7399	17.97	-.8697	-.8768	-.7160	.3167	.3755	.3696	.3057	.1613	-.3238	-3.0931	-2.9543
7400	20.55	-1.2825	-1.3361	-.9466	.3479	.4156	.3957	.2983	.1146	-.4597	-2.7228	-2.8115

TEST 63 RUN 14

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7387	-.13	-.0065	.0012	-.0319	-.0240	-.0694	-.1048	-.1018	-.0812	-.0692	.0307	.2253
7389	-.33	.0031	.0072	-.0257	-.0193	-.0682	-.1130	-.1164	-.0996	-.0810	.0062	.2177
7390	2.43	-.1795	-.1497	-.1052	-.0707	.0327	-.0079	.0120	.0449	.0926	.1855	.0731
7391	3.99	-.2968	-.2353	-.1692	-.1075	.0688	.0476	.0717	.1161	.1634	.2371	-.1408
7393	6.30	-.5081	-.3491	-.2579	-.1712	.1191	.1268	.1484	.1920	.2283	.2310	-.6921
7395	8.83	-.7200	-.5484	-.3466	-.2437	.1652	.1897	.2164	.2459	.2566	.1410	-1.5743
7396	11.19	-.9564	-.7152	-.4380	-.3596	.2065	.2372	.2580	.2697	.2365	-.0173	-2.6321
7397	13.22	-1.1429	-.8895	-.6371	-.5438	.2559	.2761	.2880	.2720	.1935	-.2098	-3.3857
7398	16.08	-2.1918	-.9461	-.6863	-.6515	.3022	.3380	.3328	.2880	.1636	-.3364	-2.5705
7399	17.97	-3.5909	-2.8151	-.8110	-.6618	.3317	.3727	.3536	.2897	.1243	-.4697	-2.5064
7400	20.55	-3.1422	-2.9330	-1.8630	-1.3351	.3711	.3911	.3704	.2854	.0925	-.5107	-1.9079

TEST 63 RUN 14

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7387	-.13	.0382	-.0249	-.0684	-.0760	-.0826	-.0782	-.0428	-.1297	-.1573	-.1633	-.1430
7389	-.33	.0399	-.0071	-.0598	-.0654	-.0767	-.0714	-.0461	-.1382	-.1637	-.1877	-.1718
7390	2.43	-.2133	-.2009	-.2242	-.1823	-.1739	-.1416	.0077	-.0347	-.0020	.0396	.0753
7391	3.99	-.3927	-.3355	-.3259	-.2637	-.2296	-.1838	.0516	.0161	.0747	.1380	.1747
7393	6.30	-.7261	-.5656	-.5161	-.3650	-.3337	-.2472	.0921	.0908	.1775	.2523	.2678
7395	8.83	-1.2023	-.7806	-.7315	-.5213	-.4441	-.3296	.1262	.1470	.2685	.3444	.3155
7396	11.19	-1.5184	-1.0291	-.9096	-.6303	-.5228	-.4445	.1671	.1999	.3414	.4148	.3240
7397	13.22	-1.7454	-1.1248	-1.0226	-.7849	-.6834	-.6882	.1887	.2227	.3878	.4532	.3181
7398	16.08	-2.3538	-2.0407	-1.6817	-1.4881	-1.2324	-.9473	.2074	.2634	.4274	.4933	.3414
7399	17.97	-2.3670	-2.1810	-2.0998	-1.9650	-2.0223	-1.5411	.2334	.2937	.4652	.5215	.3473
7400	20.55	-1.8261	-1.9034	-1.9147	-1.9340	-2.0406	-2.1511	.2554	.3165	.4987	.5383	.3430

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 14

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7387	-.13	-.0622	.2680	.0098	-.0400	-.0682	-.0956	-.1018	-.0796	-.0668	-.0525	-.0791
7389	-.33	-.0889	.2610	.0268	-.0331	-.0666	-.0946	-.0993	-.0808	-.0664	-.0522	-.0781
7390	2.43	.1647	.2094	-.2539	-.2569	-.2482	-.2242	-.2003	-.1472	-.0927	-.0732	-.0937
7391	3.99	.2149	.0042	-.4643	-.4129	-.3828	-.3028	-.2646	-.1907	-.1046	-.0894	-.1007
7393	6.30	.2258	-.5377	-.8412	-.6283	-.5391	-.4254	-.3643	-.2591	-.1299	-.1019	-.1167
7395	8.83	.1289	-1.4161	-1.2446	-.9413	-.7535	-.5651	-.4600	-.3050	-.1472	-.1195	-.1271
7396	11.19	-.0416	-2.3013	-1.5945	-1.1290	-.9222	-.6706	-.5528	-.4291	-.2314	-.1848	-.1936
7397	13.22	-.1958	-2.6638	-1.6834	-1.2542	-1.1356	-.9372	-.8348	-.6952	-.3748	-.2922	-.2795
7398	16.08	-.1562	-1.6314	-1.3894	-1.3856	-1.3623	-1.2130	-1.0680	-.8012	-.4587	-.3904	-.3682
7399	17.97	-.2253	-1.4244	-1.3397	-1.3125	-1.2755	-1.0846	-.9303	-.8906	-.5627	-.4733	-.4318
7400	20.55	-.2549	-1.1734	-1.1500	-1.1110	-1.0596	-.9611	-.8574	-.8466	-.7278	-.6321	-.5804

TEST 63 RUN 14

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7387	-.13	-.0884	-.1126	-.2836	-.1404	-.1492	-.1591	-.1632	-.1434	-.0496	.2404	.0089
7389	-.33	-.0852	-.1091	-.2766	-.1430	-.1528	-.1681	-.1742	-.1535	-.0733	.2377	.0230
7390	2.43	-.0942	-.1159	-.2713	-.0704	-.0556	-.0490	-.0100	.0399	.1513	.1500	-.2300
7391	3.99	-.1006	-.1160	-.2610	-.0271	-.0076	.0185	.0672	.1274	.2223	-.0762	-.4244
7393	6.30	-.1113	-.1218	-.2715	.0348	.0673	.1085	.1663	.2279	.2613	-.6136	-.7818
7395	8.83	-.1216	-.1258	-.2172	.0762	.1430	.2031	.2724	.3109	.2414	-1.4586	-1.2748
7396	11.19	-.1765	-.1586	-.2644	.0817	.1137	.2246	.3689	.3923	.1875	-2.3804	-1.6859
7397	13.22	-.2318	-.1927	-.3327	.1296	.1435	.0877	.3337	.4842	.1749	-2.9116	-1.8078
7398	16.08	-.3374	-.2993	-.4416	.1722	.2000	.0824	-.2328	.2877	.2550	-3.4030	-1.9135
7399	17.97	-.3913	-.3310	-.4316	.2137	.2466	.1401	-.1911	-.1560	.2237	-3.7449	-2.0019
7400	20.55	-.5227	-.4446	-.5805	.2517	.2896	.1849	-.1874	-.7428	-.2492	-3.8895	-2.1328

TEST 63 RUN 14

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7387	-.13	-.0805	-.0887	-.0970	-.1071	-.1003	-.0891	-.0922	-.2308	-.1816	-.1953	-.1972
7389	-.33	-.0614	-.0714	-.0823	-.0942	-.0921	-.0850	-.0895	-.2302	-.1880	-.2052	-.2089
7390	2.43	-.2803	-.2466	-.2222	-.2030	-.1620	-.1003	-.1024	-.2263	-.1225	-.1028	-.0802
7391	3.99	-.4251	-.3677	-.2973	-.2707	-.2046	-.1112	-.1020	-.2180	-.0843	-.0516	-.0119
7393	6.30	-.6872	-.5523	-.4346	-.3773	-.2618	-.1210	-.1094	-.2215	-.0467	.0178	.0697
7395	8.83	-1.0083	-.7791	-.5970	-.5015	-.3346	-.1334	-.1208	-.2097	-.0113	.0857	.1372
7396	11.19	-1.2420	-.9448	-.7259	-.6000	-.4291	-.1557	-.1339	-.2029	.0249	.1296	.1817
7397	13.22	-1.2269	-.9835	-.9056	-.8398	-.4367	-.1879	-.1620	-.1833	.0670	.1761	.2185
7398	16.08	-1.3557	-1.3010	-1.2583	-.7023	-.4397	-.2366	-.2261	-.2572	.0941	.1979	.2214
7399	17.97	-1.5118	-1.5863	-1.2872	-.5674	-.4958	-.3418	-.3172	-.3284	.1198	.2350	.2615
7400	20.55	-1.8256	-1.8373	-1.0944	-.7329	-.6335	-.5166	-.4874	-.4966	.1505	.2638	.2794

TEST 63 RUN 14

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7387	-.13	-.1953	-.1629	-.0688	.2012	.0163	-.0644	-.0880	-.1086	-.1198	-.0942
7389	-.33	-.2048	-.1794	-.0911	.1842	.0306	-.0376	-.0688	-.0954	-.1054	-.0857
7390	2.43	-.0262	.0319	.1466	.2064	-.2450	-.2691	-.2501	-.2265	-.2108	-.1432
7391	3.99	.0524	.1233	.1998	.0712	-.4615	-.4266	-.3704	-.3133	-.2735	-.1761
7393	6.30	.1345	.1950	.1830	-.3455	-.8708	-.7323	-.6205	-.4376	-.3853	-.2300
7395	8.83	.1983	.2118	.0545	-1.1203	-1.5103	-1.0139	-.7744	-.5990	-.5032	-.2928
7396	11.19	.2160	.1717	-.1673	-2.0799	-2.0266	-1.3214	-.9468	-.7040	-.5719	-.4122
7397	13.22	.2253	.1230	-.3832	-2.7037	-1.9255	-1.1991	-.9858	-.8950	-.8440	-.8546
7398	16.08	.2283	.0889	-.5067	-2.7283	-2.2424	-2.0740	-1.8063	-1.5619	-1.3436	-.6076
7399	17.97	.2189	.0364	-.5441	-2.0580	-1.9039	-1.9500	-2.1350	-2.2956	-1.6613	-.7386
7400	20.55	.1972	-.0345	-.7260	-2.0852	-1.9141	-1.8919	-2.0306	-2.1724	-1.7319	-.9194

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 15

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7418	.160	1792.8	-.14	-.0597	.0154	.0240	-.0597	.0153	.0010	-3.87	.692
7419	.160	1801.9	-1.60	-.1135	.0175	.0306	-.1139	.0143	.0010	-6.49	.603
7420	.160	1807.7	2.38	.0291	.0155	.0140	.0297	.0142	.0012	1.88	.109
7421	.160	1807.5	3.85	.0803	.0171	.0083	.0812	.0116	.0013	4.70	.356
7422	.160	1805.6	6.37	.1676	.0226	-.0013	.1690	.0038	.0014	7.42	.429
7423	.160	1792.9	8.89	.2558	.0323	-.0122	.2577	-.0076	.0014	7.91	.455
7424	.159	1781.5	11.13	.3432	.0478	-.0263	.3460	-.0194	.0023	7.18	.475
7425	.160	1809.0	13.40	.4371	.0755	-.0404	.4427	-.0278	.0009	5.79	.485
7429	.160	1805.8	18.37	.6696	.1891	-.0706	.6951	-.0316	.0002	3.54	.492
7430	.161	1820.5	20.74	.7861	.2603	-.0892	.8273	-.0349	-.0009	3.02	.496
7431	.160	1793.6	22.96	.8835	.3307	-.1034	.9425	-.0401	.0004	2.67	.497
7432	.160	1805.8	25.39	.9757	.4128	-.1160	1.0584	-.0454	.0008	2.36	.497
7433	.161	1814.0	27.00	1.0229	.4680	-.1198	1.1239	-.0474	.0004	2.19	.495
7434	.160	1806.1	-.11	-.0618	.0151	.0247	-.0618	.0150	.0011	-4.09	.690

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 15

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7418	-.14	.0862	-.0014	-.0054	-.0239	.0048	.0834	.0812	.1712	-.0023	-.0042	-.0081
7419	-1.60	.0589	-.0455	-.0659	-.0809	-.0687	-.0315	-.0260	.2512	.0809	.0658	.0527
7420	2.38	.0897	.0725	.0836	.0841	.1423	.2116	.2152	.1259	-.1485	-.1523	-.1351
7421	3.85	.1214	.1127	.1260	.1319	.1819	.2630	.2631	.0203	-.2385	-.2448	-.2065
7422	6.37	.1798	.1819	.1983	.2030	.2458	.2975	.2971	-.3787	-.4744	-.4316	-.3531
7423	8.89	.2240	.2358	.2561	.2627	.2985	.2629	.2622	-.9840	-.7330	-.6602	-.5126
7424	11.13	.2676	.2875	.3102	.3112	.3271	.1902	.1891	-1.6218	-1.1131	-.8517	-.6706
7425	13.40	.3154	.3423	.3600	.3562	.3397	.0734	.0737	-2.4135	-1.3308	-1.0768	-.8451
7429	18.37	.4112	.4394	.4336	.4334	.3684	-.3453	-.3447	-3.9129	-2.2482	-1.6516	-1.4092
7430	20.74	.4558	.4778	.4538	.4530	.3431	-.4856	-.5027	-2.8603	-2.5561	-2.2454	-1.8889
7431	22.96	.4853	.5138	.4762	.4776	.3462	-.7040	-.6947	-3.3270	-3.2361	-3.4153	-3.8279
7432	25.39	.5027	.5428	.4954	.5036	.3357	-.8878	-.9226	-3.5819	-3.7299	-3.9616	-4.7286
7433	27.00	.4950	.5564	.4960	.4922	.2917	-.9929	-.9862	-3.3115	-3.4865	-3.7387	-4.4527
7434	-.11	.0551	.0235	.0345	.0396	.0247	.0943	.0806	.2812	.0654	-.0259	-.0112

TEST 63 RUN 15

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7418	-.14	.0158	.0146	.0572	.0008	-.0520	-.0535	-.0575	-.0262	.0387	.2509	.0282
7419	-1.60	.0489	.0477	.0821	-.0314	-.1049	-.1114	-.1255	-.1202	-.0716	.2382	.1221
7420	2.38	-.0687	-.0684	-.0016	.0656	.0314	.0595	.0831	.1227	.1883	.1819	-.1671
7421	3.85	-.1126	-.1139	-.0331	.0993	.0779	.1068	.1408	.1825	.2440	.0248	-.3341
7422	6.37	-.1939	-.1981	-.0943	.1407	.1498	.1838	.2163	.2514	.2678	-.4383	-.6270
7423	8.89	-.2882	-.2851	-.1546	.1873	.2084	.2382	.2685	.2816	.2237	-1.1277	-1.0284
7424	11.13	-.4192	-.3717	-.2247	.2335	.2522	.2782	.2930	.2745	.1213	-1.9006	-1.3732
7425	13.40	-.5378	-.4928	-.3425	.2656	.2998	.3157	.3104	.2473	-.0180	-2.7569	-1.7080
7429	18.37	-1.0665	-.9155	-.7297	.3718	.3885	.3769	.3045	.1393	-.3713	-3.1657	-3.0755
7430	20.74	-1.4571	-1.3020	-.9333	.4148	.4205	.3932	.2973	.0980	-.4752	-2.7308	-2.8395
7431	22.96	-2.8509	-1.7396	-.6916	.4477	.4489	.4044	.2823	.0556	-.5757	-2.5043	-2.6534
7432	25.39	-4.2790	-2.4741	-.8006	.4832	.4790	.4152	.2630	-.0146	-.7334	-2.6237	-2.7532
7433	27.00	-4.8533	-3.2835	-1.0642	.4946	.4740	.3993	.2253	-.0616	-.7862	-2.4741	-2.6004
7434	-.11	-.0011	.0451	.0938	.0241	-.0389	-.0516	-.0615	-.0413	.0185	.2469	.0474

TEST 63 RUN 15

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7418	-.14	-.0041	.0035	-.0349	-.0254	-.0654	-.1109	-.1078	-.1026	-.0785	.0113	.2116
7419	-1.60	.0671	.0643	.0106	.0101	-.0611	-.1694	-.1808	-.1822	-.1867	-.1266	.1751
7420	2.38	-.1667	-.1334	-.1165	-.1087	.0334	-.0135	.0076	.0405	.0849	.1826	.0788
7421	3.85	-.2791	-.2368	-.1705	-.1640	.0675	.0482	.0661	.1128	.1589	.2333	-.1467
7422	6.37	-.4958	-.3718	-.2825	-.2512	.1159	.1273	.1525	.1899	.2251	.2281	-.7354
7423	8.89	-.7241	-.5456	-.4059	-.3401	.1672	.1952	.2227	.2496	.2560	.1324	-1.6188
7424	11.13	-.9522	-.7176	-.5373	-.4405	.1828	.2354	.2539	.2671	.2338	-.0123	-2.6460
7425	13.40	-1.1371	-.8833	-.7228	-.6759	.2122	.2819	.2901	.2773	.1961	-.2258	-3.4473
7429	18.37	-3.5476	-2.8864	-1.1730	-.7797	-.3810	.3797	.3534	.2901	.1179	-.4740	-2.4135
7430	20.74	-3.0570	-2.8745	-2.5047	-2.1645	-.8122	.4036	.3775	.2819	.0809	-.5624	-1.9337
7431	22.96	-2.7124	-2.6304	-3.0345	-3.5217	-.9890	.4293	.3808	.2794	.0340	-.6291	-1.7347
7432	25.39	-2.8643	-2.7127	-2.7697	-3.3727	-1.4376	.4562	.3878	.2442	-.0261	-.7821	-1.7916
7433	27.00	-2.6949	-2.5539	-2.4434	-3.0083	-1.2970	.4571	.3754	.2134	-.0874	-.8710	-1.7844
7434	-.11	.0163	.0347	.0073	-.0192	-.0484	-.1331	-.1375	-.1247	-.0928	.0168	.2283

TEST 63 RUN 15

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7418	-.14	.0128	-.0287	-.0746	-.0701	-.0850	-.0763	-.0426	-.1270	-.1439	-.1488	-.1447
7419	-1.60	.1174	.0611	-.0004	-.0173	-.0364	-.0421	-.0788	-.1870	-.2344	-.2806	-.3012
7420	2.38	-.2154	-.2009	-.2267	-.1895	-.1763	-.1410	.0042	-.0386	-.0137	.0309	.0722
7421	3.85	-.3850	-.3282	-.3247	-.2647	-.2411	-.1798	.0360	.0058	.0561	.1192	.1616
7422	6.37	-.7769	-.5653	-.5321	-.3794	-.3435	-.2502	.0901	.0814	.1542	.2319	.2606
7423	8.89	-1.2020	-.7939	-.7364	-.5130	-.4357	-.3210	.1316	.1440	.2343	.3242	.3184
7424	11.13	-1.5279	-1.0284	-.8992	-.6218	-.5178	-.4317	.1567	.1812	.2875	.3736	.3301
7425	13.40	-1.7482	-1.1369	-1.0284	-.8018	-.6837	-.7276	.1881	.2153	.3343	.4221	.3529
7429	18.37	-2.2959	-2.1763	-2.1566	-2.1515	-2.2748	-1.6496	.2398	.2763	.3975	.4887	.4106
7430	20.74	-1.9083	-1.9427	-1.9865	-2.0021	-2.1782	-2.3330	.2834	.3104	.4292	.5073	.4060
7431	22.96	-1.7674	-1.8268	-1.9004	-1.7712	-1.8931	-2.0319	.3171	.3267	.4485	.5178	.3977
7432	25.39	-1.8676	-1.9498	-1.9875	-1.8725	-1.9253	-2.0136	.3483	.3609	.4867	.5401	.3893
7433	27.00	-1.8863	-1.9146	-2.0129	-1.8682	-1.8382	-1.9834	.3577	.3675	.4935	.5332	.3763
7434	-.11	.0506	.0052	-.0496	-.0727	-.1100	-.1197	-.0911	-.1700	-.1707	-.1401	-.1130

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 15

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7418	-.14	-.0619	.2611	.0001	-.0492	-.0762	-.1033	-.1092	-.0880	-.0629	-.0471	-.0702
7419	-1.60	-.2827	.1862	.1136	.0494	.0090	-.0286	-.0478	-.0427	-.0528	-.0408	-.0698
7420	2.38	.1569	.2215	-.2468	-.2479	-.2524	-.2233	-.2039	-.1494	-.0945	-.0733	-.0957
7421	3.85	.2083	.0272	-.4424	-.4079	-.3698	-.2878	-.2634	-.1924	-.1063	-.0860	-.1056
7422	6.37	.2256	-.5634	-.8494	-.6299	-.5415	-.4253	-.3645	-.2537	-.1270	-.1005	-.1193
7423	8.89	.1281	-1.4584	-1.2413	-.9442	-.7650	-.5673	-.4682	-.3025	-.1567	-.1286	-.1362
7424	11.13	-.0063	-2.3045	-1.5759	-1.1129	-.9029	-.6788	-.5929	-.4207	-.2453	-.2007	-.2033
7425	13.40	-.1382	-2.6650	-1.6842	-1.2926	-1.1593	-.9760	-.9246	-.7747	-.3689	-.2881	-.2743
7429	18.37	-.0861	-1.3066	-1.2234	-1.1909	-1.1678	-1.0392	-.8860	-.8948	-.6318	-.5154	-.4818
7430	20.74	-.1483	-1.2744	-1.1957	-1.1653	-1.1353	-1.0472	-.9109	-.8495	-.8375	-.6956	-.6337
7431	22.96	-.2075	-1.2278	-1.2480	-1.1767	-1.1688	-1.0687	-1.0089	-.9944	-.9183	-.8126	-.7456
7432	25.39	-.2712	-1.2330	-1.2237	-1.1400	-1.1189	-1.0441	-1.0307	-1.0321	-1.0917	-.9737	-.8875
7433	27.00	-.3210	-1.2727	-1.2553	-1.1950	-1.1656	-1.0620	-1.0118	-1.0130	-1.0318	-.9361	-.8744
7434	-.11	-.0605	.2705	.0411	-.0090	-.0445	-.0907	-.1226	-.1089	-.0993	-.0746	-.0780

TEST 63 RUN 15

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7418	-.14	-.0773	-.1028	-.2785	-.1299	-.1500	-.1681	-.1741	-.1442	-.0537	.2372	.0074
7419	-1.60	-.0805	-.1048	-.2887	-.1760	-.2073	-.2344	-.2561	-.2603	-.2001	.1882	.1046
7420	2.38	-.0962	-.1160	-.2695	-.0565	-.0555	-.0404	-.0073	.0457	.1503	.1467	-.2277
7421	3.85	-.1040	-.1196	-.2848	-.0176	-.0078	.0195	.0654	.1295	.2185	-.0885	-.4280
7422	6.37	-.1142	-.1247	-.2767	.0397	.0786	.1186	.1760	.2367	.2543	-.7354	-.8090
7423	8.89	-.1250	-.1261	-.2279	.0427	.1511	.2178	.2823	.3138	.2054	-1.6632	-1.3237
7424	11.13	-.1792	-.1625	-.2704	.0942	.0717	.2120	.3535	.3496	.1313	-2.5873	-1.7352
7425	13.40	-.2388	-.1969	-.3442	.1443	.1791	.1229	.0731	.1607	-.0670	-3.2613	-1.8634
7429	18.37	-.4299	-.3792	-.4496	.2359	.2963	.2660	.1572	-.2695	-.6545	-4.5425	-2.0971
7430	20.74	-.5625	-.4790	-.6044	.2661	.3216	.2802	.1153	-.1926	-.9153	-4.1087	-2.3377
7431	22.96	-.6834	-.5883	-.6808	.2938	.3352	.2695	.0429	-.3907	-1.4063	-4.5653	-2.8209
7432	25.39	-.8032	-.6729	-.7446	.3368	.3637	.2791	.0130	-.5270	-1.8709	-5.1598	-3.3350
7433	27.00	-.8306	-.7216	-.8218	.3375	.3524	.2552	-.0338	-.6087	-2.0500	-5.2011	-3.5166
7434	-.11	-.0658	-.0710	-.2352	-.1006	-.1388	-.1703	-.1907	-.1667	-.0742	.2337	.0233

TEST 63 RUN 15

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7418	-.14	-.0767	-.0801	-.0972	-.0967	-.0963	-.0900	-.1002	-.2412	-.1907	-.2022	-.2039
7419	-1.60	.0181	-.0118	-.0342	-.0553	-.0656	-.0771	-.0847	-.2313	-.2134	-.2503	-.2689
7420	2.38	-.2792	-.2465	-.2216	-.2046	-.1646	-.1051	-.1066	-.2347	-.1249	-.1038	-.0820
7421	3.85	-.4197	-.3624	-.3042	-.2706	-.2061	-.1090	-.1038	-.2235	-.0853	-.0557	-.0146
7422	6.37	-.7346	-.5538	-.4421	-.3835	-.2776	-.1271	-.1139	-.2302	-.0518	.0172	.0702
7423	8.89	-1.0268	-.7740	-.6034	-.5048	-.3337	-.1248	-.1156	-.2135	-.0107	.0833	.1383
7424	11.13	-1.2975	-.9889	-.7570	-.6072	-.4269	-.1540	-.1356	-.1924	.0308	.1379	.1895
7425	13.40	-1.3060	-1.1351	-1.1169	-.8826	-.3595	-.1774	-.1513	-.1816	.0536	.1708	.2132
7429	18.37	-1.9990	-1.9489	-1.2251	-.6475	-.5845	-.4312	-.4065	-.4025	.1259	.2414	.2712
7430	20.74	-2.2199	-1.8754	-1.2495	-.8095	-.7872	-.6746	-.6238	-.6222	.1565	.2664	.2864
7431	22.96	-2.4599	-2.1086	-1.5204	-1.0187	-.9359	-.7483	-.7033	-.6736	.1873	.2914	.2958
7432	25.39	-2.9376	-2.5336	-1.8961	-1.2143	-1.0525	-.8284	-.7663	-.7531	.2172	.3112	.3032
7433	27.00	-3.1158	-2.8215	-2.0578	-1.3242	-1.1835	-.8887	-.8252	-.7933	.2259	.3172	.3073
7434	-.11	-.0487	-.0495	-.0657	-.1009	-.1087	-.1148	-.1317	-.2743	-.2039	-.1961	-.1806

TEST 63 RUN 15

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7418	-.14	-.1951	-.1711	-.0792	.2006	.0153	-.0615	-.0848	-.1179	-.1135	-.0993
7419	-1.60	-.2926	-.3104	-.2506	.0244	.1153	.0351	-.0117	-.0489	-.0646	-.0650
7420	2.38	-.0323	.0283	.1385	.1928	-.2466	-.2741	-.2538	-.2314	-.2071	-.1441
7421	3.85	.0461	.1101	.1892	.0745	-.4621	-.4185	-.3656	-.3067	-.2700	-.1791
7422	6.37	.1407	.1934	.1726	-.4030	-.9152	-.7641	-.6266	-.4440	-.3962	-.2360
7423	8.89	.1972	.2083	.0344	-1.2049	-1.5297	-1.0275	-.7784	-.6069	-.4996	-.2904
7424	11.13	.2187	.1706	-.1695	-2.0858	-2.0053	-1.3455	-.9664	-.7009	-.5629	-.4047
7425	13.40	.2158	.1122	-.4033	-2.8905	-2.0297	-1.1818	-1.0418	-.9734	-.9342	-.8355
7429	18.37	.2263	.0478	-.5336	-1.8268	-1.7103	-1.7297	-1.6654	-2.1535	-1.7965	-.9165
7430	20.74	.2174	.0164	-.5553	-1.5065	-1.4032	-1.4523	-1.3950	-1.7258	-1.5263	-1.0416
7431	22.96	.1986	-.0566	-.7140	-1.5792	-1.5411	-1.4887	-1.4337	-1.5945	-1.5138	-1.1096
7432	25.39	.1691	-.1249	-.8308	-1.5085	-1.4692	-1.4184	-1.3435	-1.4776	-1.3638	-1.0788
7433	27.00	.1646	-.1327	-.8431	-1.3882	-1.3895	-1.3601	-1.3523	-1.3732	-1.2956	-1.0448
7434	-.11	-.1565	-.1195	-.0488	.2051	-.0085	-.1069	-.1439	-.0817	-.1333	-.0911

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 16

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7438	.173	2108.7	-.13	-.0529	.0129	.0208	-.0529	.0128	.0010	-4.09	.685
7440	.161	1819.0	-1.66	-.1160	.0171	.0307	-.1165	.0138	.0010	-6.77	.600
7441	.161	1825.8	2.42	.0291	.0148	.0142	.0297	.0135	.0013	1.97	.106
7442	.161	1817.8	3.75	.0752	.0161	.0093	.0760	.0112	.0014	4.66	.342
7443	.160	1808.5	6.29	.1629	.0215	-.0001	.1643	.0035	.0014	7.57	.425
7445	.160	1808.6	8.87	.2528	.0313	-.0106	.2546	-.0081	.0014	8.09	.452
7446	.160	1801.4	11.28	.3540	.0488	-.0293	.3567	-.0214	.0026	7.26	.479
7447	.160	1792.5	13.64	.4656	.0857	-.0476	.4727	-.0266	.0016	5.43	.491
7448	.160	1794.6	16.20	.5906	.1437	-.0644	.6072	-.0268	-.0007	4.11	.495
7449	.160	1797.0	18.41	.6812	.1951	-.0752	.7080	-.0299	.0008	3.49	.495
7451	.160	1804.1	20.73	.7787	.2587	-.0880	.8198	-.0337	-.0003	3.01	.496
7452	.161	1814.7	23.15	.8690	.3307	-.0995	.9290	-.0376	.0009	2.63	.495
7453	.161	1813.5	25.40	.9260	.3974	-.1060	1.0069	-.0382	.0029	2.33	.494
7454	.160	1805.8	26.77	.9560	.4398	-.1111	1.0516	-.0379	.0020	2.17	.494
7455	.160	1800.9	-.12	-.0610	.0144	.0241	-.0611	.0143	.0012	-4.23	.687

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 16

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7438	-.13	.0704	-.0036	-.0143	-.0124	-.0370	.0576	.0549	.2528	.0624	-.0004	-.0161
7440	-1.66	.0313	-.0659	-.0893	-.0889	-.1368	-.0701	-.0665	.2792	.1880	.0774	.0564
7441	2.42	.0919	.0810	.1001	.0988	.1226	.2243	.2230	.1945	-.1235	-.1649	-.1474
7442	3.75	.1259	.1198	.1528	.1538	.1981	.2739	.2694	.0229	-.2330	-.2469	-.2076
7443	6.29	.1800	.1876	.2477	.2432	.2972	.3142	.3167	-.4247	-.4894	-.4315	-.3548
7445	8.87	.2264	.2477	.3196	.3315	.3674	.2871	.2843	-1.0258	-.7829	-.6669	-.5193
7446	11.28	.2652	.2994	.3904	.3975	.4043	.2008	.2027	-1.7157	-1.0461	-.8736	-.6848
7447	13.64	.3048	.3495	.4565	.4775	.4021	.0647	.0650	-2.4591	-1.2382	-1.1227	-.8895
7448	16.20	.3433	.3967	.5126	.5128	.4154	-.1262	-.1169	-3.4355	-1.8270	-1.4462	-1.2148
7449	18.41	.3784	.4357	.5537	.5539	.4089	-.3038	-.2999	-3.8730	-2.2335	-1.8072	-1.6448
7451	20.73	.4157	.4751	.5937	.5979	.5666	-.3803	-.3985	-3.1058	-2.7158	-2.7231	-2.4045
7452	23.15	.4383	.5108	.6302	.6293	.5510	-.4979	-.5071	-2.6733	-2.6171	-2.6187	-2.5139
7453	25.40	.4376	.5491	.6645	.6645	.5563	-.6200	-.6198	-2.5798	-2.6214	-2.6122	-2.5569
7454	26.77	.5178	.5636	.6902	.6779	.4649	-.6861	-.6831	-2.5038	-2.5661	-2.5679	-2.5058
7455	-.12	.1059	.0286	.0056	-.0021	-.0194	.0524	.0488	.2522	.0045	-.0107	-.0040

TEST 63 RUN 16

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7438	-.13	-.0041	.0032	.0434	.0017	-.0445	-.0356	-.0338	-.0141	.0402	.2247	.0334
7440	-1.66	.0318	.0480	.0814	-.0203	-.1000	-.1001	-.1100	-.1023	-.0689	.2406	.1238
7441	2.42	-.0903	-.0717	.0015	.0752	.0355	.0551	.0790	.1194	.2010	.2154	-.1594
7442	3.75	-.1297	-.1152	-.0356	.1048	.0709	.0998	.1324	.1823	.2498	.1121	-.2965
7443	6.29	-.2328	-.1878	-.0878	.1610	.1426	.1877	.2365	.2788	.3116	-.2717	-.5845
7445	8.87	-.2746	-.2753	-.1567	.1807	.2111	.2673	.3216	.3498	.3268	-.8488	-.9784
7446	11.28	-.4066	-.3551	-.2061	.2234	.2257	.3297	.4019	.4160	.3068	-1.5641	-1.3680
7447	13.64	-.6239	-.4528	-.3176	.2668	.2237	.2489	.4258	.4941	.2735	-2.4431	-1.7417
7448	16.20	-.9026	-.6389	-.4941	.3306	.3045	.2374	.1423	.4303	.2743	-3.4355	-2.1268
7449	18.41	-1.3141	-.9928	-.7022	.3636	.3620	.2687	.0169	-.1544	.1433	-4.3806	-2.3827
7451	20.73	-1.8773	-1.4758	-.9719	.4056	.3978	.3269	.1048	-.3426	-.5584	-5.3123	-2.7176
7452	23.15	-2.0873	-1.8139	-1.1865	.4417	.4232	.3418	.0853	-.3627	-1.1702	-6.1499	-3.2837
7453	25.40	-2.2819	-2.0494	-1.3859	.4762	.4504	.3540	.0663	-.4576	-1.6159	-7.0874	-4.3289
7454	26.77	-2.2702	-2.0629	-1.4880	.4684	.4578	.3427	.0366	-.5287	-1.8366	-7.5290	-4.6023
7455	-.12	.0103	.0246	.0777	.0271	-.0442	-.0472	-.0536	-.0367	.0254	.2504	.0312

TEST 63 RUN 16

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7438	-.13	-.0029	-.0048	-.0178	-.0282	-.0486	-.0921	-.0945	-.0759	-.0659	.0130	.1869
7440	-1.66	.0634	.0683	.0330	.0160	-.0437	-.1597	-.1755	-.1790	-.1869	-.1186	.1632
7441	2.42	-.1576	-.1329	-.1269	-.1116	.0227	-.0093	.0106	.0522	.0917	.1856	.0936
7442	3.75	-.2545	-.2117	-.1534	-.1558	-.0011	.0330	.0605	.1026	.1474	.2336	-.1029
7443	6.29	-.4815	-.3470	-.2708	-.2509	.0452	.1202	.1475	.1890	.2330	.2425	-.6627
7445	8.87	-.7159	-.5416	-.4082	-.3618	-.0541	.1744	.2116	.2479	.2565	.1548	-1.4979
7446	11.28	-.9592	-.7256	-.5445	-.4541	-.0727	.2301	.2546	.2712	.2360	-.0141	-2.7065
7447	13.64	-1.1953	-.9054	-.6998	-.6148	-.4157	.2861	.3005	.2785	.1909	-.2671	-3.9007
7448	16.20	-1.4010	-1.1873	-1.2389	-.9088	-.2205	.3389	.3300	.2411	.0909	-.4616	-4.2201
7449	18.41	-1.7968	-1.8785	-1.5925	-.7813	.0289	.3646	.3436	.2676	.0831	-.5914	-2.6190
7451	20.73	-2.5959	-2.5433	-1.4932	-.9879	-.1592	.3815	.3545	.2477	.0101	-.7580	-2.7707
7452	23.15	-3.2407	-3.2290	-1.8385	-1.0422	-.0044	.4183	.3595	.2216	-.0616	-.9304	-2.6446
7453	25.40	-4.5871	-4.2625	-1.6412	-1.2505	-.1580	.4351	.3679	.2229	-.0850	-.9489	-2.1881
7454	26.77	-4.9722	-4.4504	-1.8287	-1.4262	-.5605	.4509	.3726	.2028	-.1127	-.9798	-2.1128
7455	-.12	-.0082	.0101	-.0102	-.0186	-.0275	-.1013	-.1092	-.0948	-.0833	.0131	.2090

TEST 63 RUN 16

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7438	-.13	.0217	-.0190	-.0605	-.0646	-.0738	-.0636	-.0473	-.1167	-.1224	-.1135	-.0912
7440	-1.66	.1169	.0625	.0038	-.0062	-.0275	-.0388	-.0766	-.1955	-.2233	-.2397	-.2368
7441	2.42	-.2123	-.2026	-.2280	-.1897	-.1729	-.1363	.0066	-.0402	-.0203	.0177	.0654
7442	3.75	-.3569	-.3090	-.3109	-.2521	-.2265	-.1785	.0331	.0047	.0273	.0778	.1261
7443	6.29	-.7212	-.5563	-.5178	-.3714	-.3401	-.2463	.0881	.0863	.1195	.1714	.2071
7445	8.87	-1.2014	-.7827	-.7377	-.5247	-.4428	-.3269	.1344	.1553	.1906	.2298	.2336
7446	11.28	-1.5845	-1.0851	-.9572	-.6616	-.5528	-.4358	.1808	.2013	.2367	.2479	.2047
7447	13.64	-1.9698	-1.2950	-1.1782	-.8992	-.7911	-.7257	.2277	.2637	.2840	.2671	.1714
7448	16.20	-2.0432	-1.7922	-1.7743	-1.5512	-1.4316	-.8933	.2649	.2987	.3069	.2764	.1589
7449	18.41	-2.4888	-2.4570	-2.4996	-2.8916	-2.5090	-.8720	.3015	.3341	.3281	.2708	.1220
7451	20.73	-2.6792	-2.6612	-2.7603	-3.8072	-3.4432	-1.2459	.3317	.3578	.3371	.2576	.0766
7452	23.15	-2.5991	-2.6530	-2.6798	-3.5621	-3.1643	-1.9133	.3687	.3897	.3524	.2454	.0182
7453	25.40	-2.3137	-2.4742	-2.4261	-2.7419	-2.6158	-2.0457	.3940	.4127	.3625	.2305	-.0064
7454	26.77	-2.2795	-2.4062	-2.3076	-2.4848	-2.4700	-2.0145	.4094	.4187	.3688	.2358	-.0095
7455	-.12	.0226	-.0254	-.0652	-.0626	-.0725	-.0707	-.0496	-.1409	-.1488	-.1423	-.1207

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST TP	63 ALPHA DEGREES	CP201	RUN 16 CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7438	-.13	-.0424	.2236	.0083	-.0396	-.0603	-.0815	-.0889	-.0754	-.0566	-.0464	-.0740
7440	-1.66	-.1994	.1874	.1035	.0377	.0088	-.0254	-.0426	-.0468	-.0479	-.0403	-.0670
7441	2.42	.1444	.2091	-.2429	-.2413	-.2431	-.2206	-.2067	-.1514	-.0966	-.0759	-.0968
7442	3.75	.1946	.0604	-.4062	-.3681	-.3397	-.2945	-.2610	-.1895	-.1093	-.0863	-.1047
7443	6.29	.2015	-.4778	-.8206	-.6091	-.5316	-.4248	-.3735	-.2592	-.1325	-.1085	-.1196
7445	8.87	.1143	-1.2739	-1.2224	-.9204	-.7588	-.5857	-.4935	-.3481	-.1749	-.1431	-.1474
7446	11.28	-.0732	-2.2888	-1.6326	-1.1837	-.9613	-.7344	-.6418	-.5134	-.1918	-.1418	-.1511
7447	13.64	-.2865	-3.0283	-1.6849	-1.3949	-1.3619	-1.2377	-1.1786	-.8399	-.2269	-.1597	-.1721
7448	16.20	-.3309	-2.1110	-1.7389	-1.7434	-1.7277	-1.9250	-2.1005	-1.3823	-.2044	-.1121	-.0957
7449	18.41	-.4276	-1.8712	-1.7230	-1.7802	-1.8442	-1.8231	-2.2678	-1.8360	-.4278	-.3158	-.2823
7451	20.73	-.5249	-1.7142	-1.6814	-1.6983	-1.7629	-1.6358	-1.7162	-1.8997	-.7342	-.6134	-.5456
7452	23.15	-.6892	-1.8266	-1.8640	-1.8124	-1.7569	-1.7059	-1.6748	-1.6897	-.9035	-.7761	-.7107
7453	25.40	-.6764	-1.5086	-1.5450	-1.5475	-1.5197	-1.4754	-1.4327	-1.4582	-.8946	-.7950	-.7459
7454	26.77	-.7200	-1.4810	-1.4777	-1.4813	-1.4684	-1.3923	-1.3634	-1.3407	-.9443	-.8418	-.7852
7455	-.12	-.0161	.2840	.0271	-.0352	-.0733	-.1079	-.1273	-.1134	-.0868	-.0619	-.0710

TEST TP	63 ALPHA DEGREES	CP212	RUN 16 CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7438	-.13	-.0777	-.0981	-.2470	-.1208	-.1312	-.1412	-.1445	-.1228	-.0434	.2050	.0074
7440	-1.66	-.0811	-.1047	-.2943	-.1594	-.2152	-.2415	-.2759	-.2763	-.2312	.1754	.1145
7441	2.42	-.1009	-.1193	-.2792	-.0705	-.0535	-.0440	-.0148	.0397	.1503	.1058	-.2612
7442	3.75	-.1030	-.1226	-.2746	-.0473	.0030	.0079	.0532	.1116	.1972	-.1179	-.4333
7443	6.29	-.1141	-.1226	-.2420	.0123	.0788	.0995	.1547	.1976	.1954	-.8333	-.8638
7445	8.87	-.1348	-.1315	-.2674	.0624	.1441	.1713	.2154	.2202	.0726	-1.8878	-1.3583
7446	11.28	-.1389	-.1346	-.2765	.1162	.1968	.2161	.2333	.1900	-.1387	-3.0815	-1.7913
7447	13.64	-.1436	-.1406	-.3080	.1539	.2441	.2584	.2556	.1767	-.2798	-2.2244	-1.8416
7448	16.20	-.0861	-.1055	-.3258	.2077	.2832	.2875	.2556	.1308	-.3535	-1.8963	-1.8064
7449	18.41	-.2630	-.2334	-.3374	.2282	.3020	.2980	.2579	.1102	-.4022	-1.5588	-1.5952
7451	20.73	-.4935	-.4098	-.4911	.2629	.3336	.3165	.2478	.0759	-.4876	-1.4355	-1.4895
7452	23.15	-.6561	-.5725	-.6486	.2886	.3509	.3252	.2389	.0447	-.5344	-1.2427	-1.2639
7453	25.40	-.7021	-.6207	-.7297	.3105	.3653	.3389	.2413	.0284	-.5202	-1.0742	-1.0757
7454	26.77	-.7556	-.6685	-.7633	.3199	.3711	.3364	.2291	.0099	-.5335	-.9970	-.9804
7455	-.12	-.0641	-.0814	-.2539	-.1198	-.1444	-.1686	-.1843	-.1598	-.0745	.2268	.0076

TEST TP	63 ALPHA DEGREES	CP223	RUN 16 CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7438	-.13	-.0646	-.0739	-.0812	-.0888	-.0888	-.0798	-.0835	-.2032	-.1615	-.1758	-.1730
7440	-1.66	.0217	.0009	-.0273	-.0484	-.0607	-.0775	-.0877	-.2333	-.2172	-.2594	-.2839
7441	2.42	-.2848	-.2519	-.2243	-.2047	-.1608	-.1001	-.1034	-.2259	-.1212	-.1028	-.0847
7442	3.75	-.4157	-.3521	-.2944	-.2585	-.1948	-.1072	-.1043	-.2197	-.0936	-.0558	-.0154
7443	6.29	-.7249	-.5649	-.4450	-.3775	-.2720	-.1245	-.1120	-.2054	-.0516	.0194	.0656
7445	8.87	-1.0496	-.8060	-.6180	-.5084	-.3370	-.1441	-.1287	-.1962	-.0121	.0857	.1411
7446	11.28	-1.2464	-.9394	-.7674	-.7327	-.5948	-.1639	-.1416	-.2223	.0247	.1329	.1856
7447	13.64	-1.9919	-1.3207	-1.1476	-.9357	-.8140	-.2673	-.2759	-.3052	.0592	.1773	.2210
7448	16.20	-2.0064	-1.8291	-1.4460	-1.3689	-1.3906	-.3868	-.2527	-.3582	.0977	.2166	.2550
7449	18.41	-1.7880	-1.4902	-1.3002	-1.3372	-1.4444	-.6297	-.5302	-.5396	.1172	.2416	.2743
7451	20.73	-1.5589	-1.3810	-1.3066	-1.2578	-1.2732	-.7495	-.6795	-.6465	.1444	.2639	.2897
7452	23.15	-1.2768	-1.2148	-1.1794	-1.1453	-1.1377	-.7634	-.7119	-.6880	.1664	.2770	.2938
7453	25.40	-1.0718	-1.1212	-1.0248	-1.0202	-1.0011	-.7613	-.7051	-.6794	.1829	.2869	.2991
7454	26.77	-.9955	-.9927	-.9707	-.9647	-1.0061	-.7604	-.7192	-.7150	.1916	.2919	.2984
7455	-.12	-.0752	-.0729	-.0780	-.0896	-.0866	-.0846	-.0955	-.2451	-.1989	-.2147	-.2120

TEST TP	63 ALPHA DEGREES	CP234	RUN 16 CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7438	-.13	-.1601	-.1460	-.0665	.1763	.0101	-.0465	-.0717	-.0932	-.0997	-.0800
7440	-1.66	-.3013	-.3122	-.2457	.0228	.1287	.0431	.0007	-.0438	-.0611	-.0612
7441	2.42	-.0265	.0327	.1367	.1916	-.2501	-.2729	-.2540	-.2267	-.2139	-.1429
7442	3.75	.0435	.1084	.1910	.0925	-.4380	-.4159	-.3630	-.3002	-.2711	-.1747
7443	6.29	.1315	.1878	.1692	-.3923	-.8958	-.7539	-.6276	-.4457	-.3865	-.2334
7445	8.87	.2023	.2098	.0405	-1.2037	-1.5249	-1.0470	-.7825	-.5943	-.4909	-.2895
7446	11.28	.2151	.1579	-.2014	-2.1521	-1.9304	-1.2691	-.8530	-.6695	-.5843	-.4690
7447	13.64	.2372	.1638	-.1973	-1.4855	-1.5128	-1.4230	-1.4354	-1.1658	-1.0282	-.7652
7448	16.20	.2511	.1489	-.2419	-1.2629	-1.2031	-1.1372	-1.1397	-1.0719	-1.0975	-1.0684
7449	18.41	.2511	.1244	-.2837	-1.1283	-1.0541	-1.0766	-.9896	-.9551	-.9059	-.8679
7451	20.73	.2488	.1034	-.3363	-1.0169	-.9502	-.9549	-.9211	-.8668	-.8273	-.7857
7452	23.15	.2328	.0600	-.3787	-.9109	-.8579	-.8343	-.8480	-.8254	-.7844	-.7510
7453	25.40	.2175	.0348	-.4035	-.8053	-.7702	-.7667	-.7888	-.7931	-.7700	-.7867
7454	26.77	.2101	.0185	-.4385	-.7607	-.7366	-.7527	-.7711	-.7731	-.7726	-.7826
7455	-.12	-.2008	-.1670	-.0544	.2128	.0278	-.0470	-.0833	-.1188	-.1273	-.1042

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 17

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7459	.160	1805.4	-.14	-.0646	.0151	.0252	-.0646	.0150	.0012	-4.28	.684
7460	.160	1806.8	-1.63	-.1177	.0172	.0315	-.1181	.0139	.0011	-6.84	.602
7461	.161	1812.3	2.42	.0266	.0148	.0151	.0272	.0137	.0012	1.80	.052
7462	.160	1808.8	3.69	.0701	.0161	.0108	.0710	.0115	.0014	4.37	.323
7463	.160	1807.5	6.32	.1615	.0216	.0008	.1629	.0037	.0014	7.48	.421
7464	.160	1804.8	8.70	.2444	.0304	-.0088	.2462	-.0069	.0014	8.04	.448
7465	.160	1810.5	11.22	.3475	.0479	-.0270	.3502	-.0207	.0024	7.26	.475
7466	.160	1793.6	13.57	.4541	.0823	-.0442	.4607	-.0265	.0013	5.52	.488
7467	.160	1795.9	16.08	.5760	.1351	-.0634	.5909	-.0297	-.0000	4.26	.496
7468	.160	1804.3	18.36	.6707	.1882	-.0743	.6958	-.0327	.0013	3.56	.495
7469	.161	1814.6	20.77	.7768	.2544	-.0894	.8166	-.0376	.0003	3.05	.497
7470	.160	1806.0	22.99	.8656	.3208	-.1007	.9221	-.0427	.0007	2.70	.497
7472	.160	1807.2	25.53	.9431	.4006	-.1074	1.0237	-.0450	.0005	2.35	.494

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 17

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7459	-.14	.0709	-.0074	-.0181	-.0127	-.0222	.0822	.0759	.2939	.1018	.0038	-.0027
7460	-1.63	.0474	-.0528	-.0719	-.0699	-.0932	-.0232	-.0162	.2742	.1675	.0783	.0619
7461	2.42	.0860	.0754	.0876	.0857	.1033	.2186	.2183	.2041	-.1065	-.1541	-.1293
7462	3.69	.1222	.1126	.1255	.1301	.1971	.2568	.2577	-.0796	-.2278	-.2334	-.1953
7463	6.32	.1890	.1869	.2075	.2099	.2431	.2998	.2971	-.3836	-.5093	-.4316	-.3548
7464	8.70	.2404	.2459	.2671	.2706	.3121	.2763	.2745	-.9070	-.7219	-.6361	-.5008
7465	11.22	.2944	.3081	.3243	.3216	.3358	.1916	.1868	-1.6906	-1.2802	-.8557	-.6580
7466	13.57	.3357	.3552	.3663	.3658	.3483	.0655	.0641	-2.5240	-1.5483	-1.1050	-.8400
7467	16.08	.3659	.4126	.4093	.4090	.3747	-.1500	-.1388	-3.4604	-1.9892	-1.3834	-1.1004
7468	18.36	.3709	.4505	.4370	.4333	.3704	-.3504	-.3344	-3.8396	-2.2157	-1.6606	-1.4006
7469	20.77	.1138	.4885	.4647	.4659	.3678	-.4379	-.4432	-2.8160	-2.5024	-2.2863	-1.8877
7470	22.99	.2541	.5316	.4957	.4934	.3639	-.6528	-.6495	-3.2332	-3.1676	-3.3718	-3.6625
7472	25.53	.5322	.5632	.5092	.5104	.3346	-.8189	-.8251	-3.2157	-3.3308	-3.4976	-4.0198

TEST 63 RUN 17

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7459	-.14	-.0046	.0115	.0591	-.0064	-.0459	-.0488	-.0707	-.0548	.0253	.2656	.0411
7460	-1.63	.0557	.0546	.0884	-.0170	-.0979	-.1314	-.1835	-.1930	-.1270	.2456	.1341
7461	2.42	-.0987	-.0668	-.0019	.0623	.0328	.0753	.1067	.1410	.2079	.1708	-.1799
7462	3.69	-.1069	-.1097	-.0284	.0912	.0742	.1361	.1789	.2144	.2599	.0442	-.3241
7463	6.32	-.2763	-.1927	-.0885	.1467	.1565	.2407	.3036	.3109	.2991	-.4654	-.6668
7464	8.70	-.3811	-.2731	-.1472	.1806	.2064	.3133	.3811	.3664	.2631	-1.1490	-1.0197
7465	11.22	-.4861	-.3666	-.2176	.2125	.2528	.3859	.4404	.3773	.1503	-2.0083	-1.4103
7466	13.57	-.6037	-.4839	-.3578	.2483	.2920	.4467	.4941	.3783	.0139	-2.9973	-1.7446
7467	16.08	-.8091	-.7202	-.5428	.2767	.3382	.4934	.5330	.3666	-.1209	-3.2472	-3.2858
7468	18.36	-1.0418	-.8704	-.7435	.3025	.3684	.5314	.5613	.3530	-.2443	-2.8305	-2.7109
7469	20.77	-1.4652	-1.2933	-.9001	.3328	.3994	.5610	.5800	.3416	-.3170	-2.3385	-2.3788
7470	22.99	-2.7162	-1.6207	-.6579	.3663	.4262	.5895	.6000	.3471	-.3478	-2.0102	-1.9992
7472	25.53	-3.8199	-2.6371	-.9995	.4194	.4513	.6225	.6106	.3185	-.4494	-1.9560	-2.0248

TEST 63 RUN 17

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7459	-.14	-.0117	-.0014	-.0238	-.0305	-.0275	-.0967	-.1059	-.0885	-.0712	.0238	.2239
7460	-1.63	.0751	.0685	.0300	.0115	.0089	-.1520	-.1658	-.1714	-.1757	-.1084	.1778
7461	2.42	-.1838	-.1487	-.1343	-.1221	-.0630	-.0118	.0064	.0404	.0852	.1915	.1395
7462	3.69	-.2758	-.2279	-.1660	-.1591	-.1028	.0557	.0580	.1052	.1486	.2438	-.0114
7463	6.32	-.4940	-.3797	-.2850	-.2547	-.1660	.1018	.1478	.2048	.2553	.3000	-.4823
7464	8.70	-.7219	-.5377	-.4035	-.3283	-.2227	.1428	.2262	.2935	.3373	.3014	-1.1354
7465	11.22	-.9814	-.7476	-.5526	-.4478	-.0626	.0472	.2055	.3794	.4222	.2737	-2.0176
7466	13.57	-1.1943	-.9804	-.7738	-.6298	-.1689	.2056	-.0370	.2867	.5160	.2609	-2.9921
7467	16.08	-2.4175	-1.5585	-1.1210	-.8141	.1865	.2634	.1313	-.2275	.2883	.3256	-3.8495
7468	18.36	-2.6428	-2.0736	-1.5276	-1.1619	-.0639	.3363	.2381	-.0768	-.6292	.1344	-4.5913
7469	20.77	-2.2553	-2.0533	-1.6997	-1.3705	.1456	.3634	.2742	.0165	-.6049	-.8525	-5.1620
7470	22.99	-1.9132	-1.6951	-1.5906	-1.5174	-.2392	.3723	.2677	-.0283	-.6458	-1.7051	-5.5799
7472	25.53	-1.9195	-1.7035	-1.4984	-1.4441	-1.3505	.3814	.2601	-.0612	-.7268	-2.3563	-6.3354

TEST 63 RUN 17

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7459	-.14	.0376	-.0184	-.0689	-.0729	-.0772	-.0738	-.0531	-.1339	-.1430	-.1310	-.1053
7460	-1.63	.1235	.0597	.0065	-.0078	-.0299	-.0413	-.0788	-.1885	-.2166	-.2308	-.2218
7461	2.42	-.1815	-.1819	-.2149	-.1832	-.1739	-.1414	-.0028	-.0428	-.0247	.0150	.0618
7462	3.69	-.3167	-.2886	-.2976	-.2430	-.2241	-.1751	.0276	.0020	.0226	.0694	.1232
7463	6.32	-.6634	-.5477	-.5015	-.3631	-.3348	-.2492	.0911	.0915	.1224	.1741	.2121
7464	8.70	-1.0893	-.7387	-.7039	-.5007	-.4424	-.3167	.1393	.1545	.1846	.2297	.2422
7465	11.22	-1.5811	-1.0415	-.9212	-.6505	-.5488	-.4078	.1812	.2039	.2443	.2581	.2226
7466	13.57	-1.7907	-1.2561	-1.0667	-.7823	-.6982	-.6042	.2432	.2640	.2844	.2695	.1767
7467	16.08	-2.0896	-1.3729	-1.2891	-1.1616	-1.1087	-.5655	.2630	.3008	.3140	.2885	.1443
7468	18.36	-2.2939	-1.6385	-1.6866	-1.6237	-1.0807	-.6583	.3059	.3354	.3263	.2607	.0866
7469	20.77	-2.7620	-2.7881	-2.8169	-1.3255	-.9134	-.8476	.3370	.3664	.3353	.2358	.0140
7470	22.99	-3.2792	-3.0529	-2.8103	-1.6350	-1.0923	-.9608	.3705	.3848	.3375	.1981	-.0752
7472	25.53	-3.8638	-3.5033	-3.3558	-1.8137	-1.2077	-1.2336	.4006	.4117	.3458	.1766	-.1276

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 17

TP	ALPHA DEGREES	CP2C1	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7459	-.14	-.0367	.2617	.0065	-.0496	-.0739	-.0980	-.1046	-.0878	-.0646	-.0519	-.0743
7460	-1.63	-.1848	.1930	.1080	.0503	.0139	-.0304	-.0477	-.0476	-.0470	-.0372	-.0657
7461	2.42	.1395	.2206	-.2360	-.2409	-.2378	-.2158	-.2039	-.1485	-.0935	-.0732	-.0951
7462	3.69	.1918	.0818	-.3888	-.3550	-.3365	-.2787	-.2551	-.1851	-.1057	-.0829	-.0993
7463	6.32	.2158	-.4361	-.7936	-.6106	-.5197	-.4270	-.3732	-.2626	-.1343	-.1134	-.1190
7464	8.70	.1291	-1.2099	-1.3056	-.9026	-.7393	-.5718	-.4843	-.3364	-.1663	-.1334	-.1417
7465	11.22	-.0362	-2.2246	-1.6361	-1.2097	-.9852	-.7286	-.6384	-.4909	-.1945	-.1418	-.1505
7466	13.57	-.2731	-3.2285	-1.8173	-1.3183	-1.2355	-1.1853	-1.1843	-.7546	-.2025	-.1619	-.1656
7467	16.08	-.4162	-2.7728	-2.1738	-2.1764	-2.3199	-2.2353	-1.7397	-.9360	-.2278	-.1686	-.1576
7468	18.36	-.5735	-2.5784	-2.2287	-2.2040	-2.2185	-2.8681	-2.8600	-.9804	-.4413	-.3830	-.3534
7469	20.77	-.7545	-2.5036	-2.4066	-2.4254	-2.3523	-2.8946	-2.8664	-1.4823	-.6481	-.5609	-.5224
7470	22.99	-.9337	-2.5392	-2.5241	-2.4806	-2.4002	-2.8948	-2.7996	-1.6838	-.8255	-.7435	-.6733
7472	25.53	-1.0310	-2.2669	-2.3708	-2.4107	-2.2457	-2.4320	-2.4092	-1.7859	-.9768	-.8635	-.8004

TEST 63 RUN 17

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7459	-.14	-.0820	-.1051	-.2782	-.1388	-.1514	-.1640	-.1753	-.1503	-.0537	.2376	.0140
7460	-1.63	-.0770	-.1011	-.2887	-.1568	-.2181	-.2415	-.2759	-.2905	-.2363	.1736	.1104
7461	2.42	-.0969	-.1166	-.2784	-.0765	-.0627	-.0503	-.0173	.0359	.1444	.1020	-.2503
7462	3.69	-.1006	-.1189	-.2693	-.0466	-.0132	.0092	.0490	.1084	.1940	-.0920	-.4107
7463	6.32	-.1152	-.1209	-.2463	.0151	.0830	.1021	.1537	.1970	.1978	-.8269	-.8562
7464	8.70	-.1320	-.1328	-.2648	.0561	.1381	.1609	.2065	.2189	.0935	-1.8286	-1.2854
7465	11.22	-.1362	-.1285	-.2958	.1138	.1949	.2138	.2307	.1855	-.1356	-2.9458	-1.7822
7466	13.57	-.1497	-.1450	-.2376	.1570	.2398	.2533	.2466	.1517	-.3314	-3.4988	-1.5902
7467	16.08	-.1399	-.1337	-.2092	.2028	.2829	.2841	.2529	.1237	-.3841	-2.0433	-2.0524
7468	18.36	-.3213	-.2720	-.3370	.2301	.3056	.3053	.2619	.1192	-.3782	-1.5015	-1.4933
7469	20.77	-.4935	-.4121	-.4680	.2644	.3353	.3193	.2455	.0653	-.5168	-1.4895	-1.5102
7470	22.99	-.6254	-.5142	-.5763	.2937	.3555	.3243	.2227	-.0057	-.6686	-1.5461	-1.5593
7472	25.53	-.7643	-.6615	-.7303	.3256	.3774	.3327	.2128	-.0394	-.7144	-1.3932	-1.4024

TEST 63 RUN 17

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7459	-.14	-.0742	-.0796	-.0879	-.0990	-.0918	-.0841	-.0891	-.2274	-.1836	-.1979	-.2014
7460	-1.63	.0209	-.0040	-.0267	-.0520	-.0593	-.0798	-.0879	-.2320	-.2186	-.2595	-.2781
7461	2.42	-.2831	-.2530	-.2209	-.2082	-.1638	-.1041	-.1049	-.2296	-.1254	-.1053	-.0827
7462	3.69	-.4021	-.3508	-.2904	-.2597	-.1960	-.1115	-.1077	-.2216	-.0940	-.0648	-.0242
7463	6.32	-.7051	-.5726	-.4423	-.3840	-.2726	-.1240	-.1122	-.2084	-.0542	.0216	.0659
7464	8.70	-1.0142	-.7757	-.5989	-.4908	-.3289	-.1371	-.1260	-.1915	-.0178	.0838	.1336
7465	11.22	-1.2731	-.9782	-.7849	-.6808	-.5280	-.1649	-.1431	-.2171	.0254	.1361	.1869
7466	13.57	-1.2668	-1.2069	-1.0047	-.9277	-.9334	-.1693	-.1539	-.2600	.0623	.1758	.2244
7467	16.08	-2.1476	-2.0656	-1.6681	-1.4851	-1.2167	-.2036	-.2128	-.2396	.1003	.2201	.2602
7468	18.36	-1.5225	-1.5290	-1.4673	-1.5171	-1.5556	-.5404	-.4797	-.4532	.1161	.2340	.2689
7469	20.77	-1.5041	-1.5234	-1.4175	-1.3902	-1.4417	-.7108	-.6444	-.5837	.1448	.2642	.2877
7470	22.99	-1.5671	-1.5435	-1.4370	-1.3964	-1.3697	-.7578	-.6880	-.6435	.1742	.2840	.2963
7472	25.53	-1.3977	-1.3602	-1.3047	-1.2260	-1.2016	-.7906	-.7431	-.7048	.1975	.3004	.3043

TEST 63 RUN 17

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7459	-.14	-.1983	-.1732	-.0752	.1991	.0275	-.0503	-.0747	-.1052	-.1081	-.0887
7460	-1.63	-.3122	-.3210	-.2659	.0127	.1205	.0405	-.0016	-.0396	-.0592	-.0595
7461	2.42	-.0308	.0268	.1373	.1936	-.2399	-.2724	-.2577	-.2278	-.2145	-.1454
7462	3.69	.0291	.0998	.1858	.0960	-.4281	-.4111	-.3502	-.3020	-.2641	-.1757
7463	6.32	.1369	.1909	.1775	-.3840	-.8737	-.7463	-.6216	-.4351	-.3867	-.2297
7464	8.70	.1911	.2051	.0562	-1.1171	-1.4690	-1.0147	-.7623	-.5877	-.4875	-.2868
7465	11.22	.2158	.1669	-.1867	-2.1361	-1.9726	-1.2975	-.9043	-.6513	-.5668	-.4546
7466	13.57	.2361	.1507	-.2485	-1.7951	-1.6355	-1.6533	-1.6163	-1.2342	-.9198	-.6841
7467	16.08	.2554	.1454	-.2561	-1.3609	-1.2643	-1.2445	-1.2310	-1.2084	-1.1868	-1.1990
7468	18.36	.2456	.1354	-.2373	-1.0287	-.9565	-.9537	-.9311	-.9273	-.9040	-.9446
7469	20.77	.2434	.0820	-.3706	-1.1092	-1.0551	-1.0523	-.9706	-.9513	-.9054	-.8635
7470	22.99	.2309	.0396	-.4502	-1.0403	-.9729	-.9839	-.9753	-.9342	-.9160	-.8593
7472	25.53	.2165	.0041	-.5050	-.9222	-.9081	-.8659	-.8568	-.8740	-.8234	-.8021

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 18

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7486	.172	2090.7	-.14	-.0545	.0129	.0217	-.0545	.0128	.0008	-4.23	.689
7487	.160	1800.2	-1.61	-.1162	.0169	.0319	-.1166	.0136	.0008	-6.88	.607
7488	.160	1805.3	2.42	.0272	.0148	.0147	.0278	.0136	.0011	1.85	.072
7489	.161	1810.1	3.73	.0718	.0160	.0098	.0727	.0113	.0012	4.49	.334
7490	.160	1805.1	6.20	.1562	.0209	.0008	.1576	.0039	.0013	7.47	.421
7491	.160	1796.8	8.72	.2434	.0300	-.0090	.2452	-.0072	.0010	8.11	.448
7493	.160	1793.7	11.18	.3488	.0486	-.0280	.3516	-.0199	.0013	7.18	.477
7494	.160	1792.7	13.56	.4670	.0877	-.0481	.4745	-.0242	.0006	5.32	.492
7495	.161	1809.8	16.06	.6075	.1510	-.0672	.6256	-.0229	-.0003	4.02	.496
7496	.160	1795.1	18.58	.7332	.2099	-.0743	.7335	-.0251	.0002	3.35	.492
7497	.161	1810.2	20.85	.7935	.2736	-.0854	.8389	-.0267	.0013	2.90	.492
7498	.160	1806.9	23.15	.8839	.3443	-.0978	.9481	-.0310	.0004	2.57	.493
7499	.161	1811.2	25.51	.9632	.4218	-.1097	1.0510	-.0342	.0006	2.28	.494
7500	.161	1816.1	27.00	1.0110	.4743	-.1174	1.1161	-.0363	.0002	2.13	.494
7501	.160	1797.6	-.12	-.0618	.0144	.0251	-.0618	.0143	.0010	-4.29	.695

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST TP	63 ALPHA DEGREES	CP101	RUN 18 CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7486	-.14	.0018	.0040	-.0066	-.0021	-.0136	.0737	.0819	.2563	.0827	-.0002	-.0079
7487	-1.61	.0147	-.0411	-.0598	-.0628	-.0850	-.0287	-.0182	.2787	.1849	.0771	.0543
7488	2.42	.0154	.0784	.0816	.0846	.0924	.1946	.2164	.2154	-.1006	-.1521	-.1349
7489	3.73	.0195	.1095	.1237	.1295	.1383	.2531	.2672	.0771	-.2330	-.2406	-.2023
7490	6.20	.0415	.1740	.1913	.1936	.2141	.2936	.2941	-.3316	-.4987	-.4093	-.3442
7491	8.72	.1466	.2375	.2595	.2584	.2827	.2735	.2756	-.9243	-.8166	-.6262	-.4909
7493	11.18	.1737	.2922	.3138	.3124	.3257	.1938	.2001	-1.6540	-1.2637	-.8415	-.6609
7494	13.56	.2427	.3494	.3629	.3642	.3604	.0668	.0586	-2.5008	-1.5563	-1.0846	-.8353
7495	16.06	.2874	.3969	.3975	.3917	.3596	-.1602	-.1685	-3.4348	-1.9904	-1.4055	-1.1380
7496	18.58	.3470	.4457	.4346	.4351	.3672	-.3730	-.3696	-3.8470	-2.2243	-1.7368	-1.4587
7497	20.85	.2945	.4848	.4600	.4580	.3579	-.4796	-.4905	-2.9761	-2.6404	-2.3296	-2.0493
7498	23.15	.4358	.5159	.4810	.4821	.3424	-.7189	-.7242	-3.3890	-3.3556	-3.6056	-3.9807
7499	25.51	.4911	.5445	.4976	.4942	.2894	-.8871	-.8903	-3.3572	-3.4702	-3.7000	-4.3951
7500	27.00	.5701	.5644	.5001	.4959	.2683	-.9992	-1.0012	-3.3797	-3.5307	-3.7765	-4.3251
7501	-.12	.0538	-.0171	-.0094	.0001	.0114	.1124	.1150	.3062	.0946	-.0150	-.0278

TEST TP	63 ALPHA DEGREES	CP112	RUN 18 CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7486	-.14	-.0156	.0024	.0448	-.0158	-.0445	-.0338	-.0267	-.0123	.0434	.2256	.0340
7487	-1.61	.0376	.0465	.0850	-.0384	-.0998	-.1070	-.1175	-.1171	-.0682	.2409	.1205
7488	2.42	-.1060	-.0702	.0022	.0545	.0324	.0563	.0875	.1270	.1917	.1841	-.1637
7489	3.73	-.1641	-.1071	-.0288	.0901	.0689	.0997	.1333	.1763	.2374	.0491	-.3168
7490	6.20	-.2683	-.1847	-.0856	.1367	.1447	.1767	.2126	.2482	.2689	-.4059	-.6103
7491	8.72	-.3744	-.2750	-.1472	.1779	.1963	.2359	.2669	.2819	.2279	-1.0515	-1.0127
7493	11.18	-.4840	-.3665	-.2206	.2266	.2524	.2809	.2970	.2794	.1288	-1.8569	-1.3771
7494	13.56	-.5954	-.4883	-.3464	.2776	.3075	.3216	.3107	.2458	-.0340	-2.8036	-1.7196
7495	16.06	-.8393	-.7440	-.5765	.3211	.3591	.3488	.3074	.1883	-.2256	-3.2570	-3.1110
7496	18.58	-1.1134	-.9232	-.7738	.3727	.3902	.3805	.3003	.1316	-.3957	-3.2062	-3.2300
7497	20.85	-1.6254	-1.3894	-.9232	.4178	.4228	.3946	.2875	.0813	-.4956	-2.7868	-2.9093
7498	23.15	-2.9900	-1.7857	-.7536	.4092	.4433	.3990	.2779	.0403	-.6039	-2.5707	-2.6873
7499	25.51	-4.3043	-2.7102	-.8461	.4396	.4744	.4101	.2526	-.0116	-.7159	-2.5299	-2.6809
7500	27.00	-4.9522	-3.3929	-1.0501	.5008	.4867	.4083	.2396	-.0525	-.7748	-2.4139	-2.5063
7501	-.12	-.0403	-.0112	.0377	-.0065	-.0297	-.0176	-.0184	.0020	.0520	.2556	.0261

TEST TP	63 ALPHA DEGREES	CP123	RUN 18 CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7486	-.14	-.0037	-.0041	-.0263	-.0328	-.0314	-.0905	-.0889	-.0732	-.0551	.0224	.1904
7487	-1.61	.0737	.0627	.0379	.0136	.0064	-.1576	-.1740	-.1766	-.1801	-.1149	.1699
7488	2.42	-.1828	-.1415	-.1311	-.1152	-.0672	-.0078	.0103	.0523	.0879	.1836	.0795
7489	3.73	-.2664	-.2146	-.1590	-.1568	-.0994	.0334	.0587	.1050	.1506	.2287	-.1040
7490	6.20	-.4855	-.3554	-.2810	-.2487	-.1661	.1169	.1470	.1817	.2228	.2295	-.6773
7491	8.72	-.7096	-.5380	-.4022	-.3407	-.2355	.1718	.2057	.2366	.2499	.1463	-1.5098
7493	11.18	-.9645	-.7271	-.5476	-.4410	-.3588	.2262	.2495	.2668	.2344	-.0090	-2.6083
7494	13.56	-1.1910	-.9400	-.7766	-.7533	-.5881	.2622	.2792	.2644	.1863	-.2439	-3.3435
7495	16.06	-2.2704	-1.3668	-.9094	-.7961	-.6611	.3312	.3287	.2831	.1530	-.3757	-2.6987
7496	18.58	-3.9965	-2.9556	-1.0314	-.8984	-.4728	.3582	.3367	.2711	.0856	-.5609	-2.7665
7497	20.85	-3.2547	-3.0393	-2.5005	-2.0395	-.9977	.3884	.3612	.2787	.0642	-.5777	-2.0013
7498	23.15	-2.8042	-2.6852	-3.1100	-3.7450	-.9028	.4145	.3678	.2551	.0279	-.6818	-1.9152
7499	25.51	-2.8009	-2.6615	-2.6612	-3.3447	-.7522	.4360	.3687	.2289	-.0379	-.7942	-1.8502
7500	27.00	-2.6092	-2.5106	-2.3782	-2.8351	-.4359	.4482	.3711	.2126	-.0782	-.8803	-1.8421
7501	-.12	-.0295	-.0141	-.0283	-.0280	-.0284	-.0799	-.0783	-.0680	-.0616	.0301	.2206

TEST TP	63 ALPHA DEGREES	CP134	RUN 18 CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7486	-.14	.0257	-.0146	-.0630	-.0633	-.0755	-.0653	-.0447	-.1216	-.1285	-.1196	-.0973
7487	-1.61	.1208	.0578	-.0029	-.0075	-.0312	-.0382	-.0819	-.1934	-.2229	-.2303	-.2306
7488	2.42	-.2109	-.2031	-.2263	-.1870	-.1804	-.1500	.0055	-.0446	-.0283	.0185	.0655
7489	3.73	-.3604	-.3131	-.3138	-.2526	-.2223	-.1722	.0340	.0033	.0314	.0778	.1288
7490	6.20	-.7262	-.5581	-.4974	-.3568	-.3266	-.2356	.0862	.0873	.1123	.1661	.2047
7491	8.72	-1.1896	-.7847	-.7257	-.5082	-.4352	-.3170	.1333	.1473	.1840	.2249	.2332
7493	11.18	-1.5268	-1.0295	-.8920	-.6282	-.5282	-.4492	.1768	.1998	.2364	.2483	.2135
7494	13.56	-1.7334	-1.2453	-1.0659	-.8540	-.7461	-.8175	.2181	.2496	.2662	.2495	.1652
7495	16.06	-2.5081	-2.3883	-2.3277	-1.6231	-1.2493	-.9705	.2563	.2923	.3073	.2771	.1688
7496	18.58	-2.6025	-2.5036	-2.5036	-2.3934	-2.4116	-1.7968	.2919	.3342	.3274	.2750	.1360
7497	20.85	-2.0362	-2.0508	-2.0982	-2.1116	-2.2975	-2.5287	.3311	.3665	.3496	.2801	.1154
7498	23.15	-1.9821	-2.0319	-2.0758	-1.9727	-2.0469	-2.3094	.3636	.3784	.3479	.2536	.0569
7499	25.51	-1.9330	-1.9826	-1.9997	-1.9250	-1.9499	-2.0885	.3927	.4020	.3559	.2316	.0112
7500	27.00	-1.9523	-1.9838	-2.0118	-1.8816	-1.8693	-2.0293	.4053	.4182	.3561	.2212	-.0242
7501	-.12	.0206	-.0430	-.0804	-.0789	-.0826	-.0692	-.0394	-.1211	-.1333	-.1202	-.0962

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 18

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7486	-.14	-.0367	.2236	.0090	-.0328	-.0534	-.0723	-.0789	-.0650	-.0554	-.0457	-.0689
7487	-1.61	-.1862	.1941	.1085	.0501	.0094	-.0271	-.0424	-.0458	-.0443	-.0348	-.0667
7488	2.42	.1486	.2044	-.2449	-.2422	-.2415	-.2172	-.2015	-.1441	-.0918	-.0717	-.0927
7489	3.73	.1917	.0538	-.3964	-.3678	-.3392	-.2842	-.2603	-.1834	-.1073	-.0863	-.1050
7490	6.20	.2024	-.4519	-.7883	-.6028	-.5243	-.4208	-.3644	-.2532	-.1288	-.1038	-.1144
7491	8.72	.1168	-1.2822	-1.2080	-.8935	-.7475	-.5635	-.4758	-.3304	-.1719	-.1358	-.1417
7493	11.18	-.0621	-2.1622	-1.5836	-1.1283	-.9189	-.7003	-.6189	-.5290	-.1892	-.1423	-.1514
7494	13.56	-.2421	-2.5229	-1.6780	-1.3507	-1.2077	-.8680	-.7916	-.7300	-.3949	-.2489	-.1929
7495	16.06	-.2650	-1.7715	-1.5175	-1.5294	-1.5380	-1.5704	-1.6808	-1.4512	-.4343	-.2832	-.2067
7496	18.58	-.3622	-1.5488	-1.4793	-1.5066	-1.5422	-1.5499	-1.7062	-1.9683	-.5701	-.4395	-.3555
7497	20.85	-.4363	-1.4697	-1.4748	-1.4823	-1.4613	-1.4137	-1.4039	-1.7099	-.8185	-.6682	-.6059
7498	23.15	-.5339	-1.4300	-1.4835	-1.4186	-1.3934	-1.4252	-1.4121	-1.5554	-.9468	-.7907	-.7342
7499	25.51	-.6264	-1.3978	-1.4695	-1.4019	-1.4206	-1.3988	-1.3626	-1.4353	-.9923	-.8711	-.8070
7500	27.00	-.6840	-1.3663	-1.4169	-1.4197	-1.4159	-1.4120	-1.4039	-1.4667	-1.0217	-.9226	-.8623
7501	-.12	-.0629	.2472	-.0020	-.0381	-.0531	-.0677	-.0853	-.0798	-.0654	-.0630	-.0961

TEST 63 RUN 18

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7486	-.14	-.0778	-.0998	-.2491	-.1228	-.1312	-.1368	-.1340	-.1177	-.0419	.2103	.0139
7487	-1.61	-.0763	-.1043	-.2882	-.1691	-.2087	-.2399	-.2667	-.2752	-.2155	.1806	.1127
7488	2.42	-.0966	-.1164	-.2784	-.0755	-.0583	-.0397	-.0062	.0467	.1452	.1112	-.2478
7489	3.73	-.1050	-.1213	-.2700	-.0498	-.0035	.0092	.0524	.1096	.1946	-.1071	-.4338
7490	6.20	-.1126	-.1189	-.2401	.0072	.0731	.0941	.1476	.1945	.1989	-.8056	-.8319
7491	8.72	-.1337	-.1312	-.2524	.0566	.1375	.1640	.2102	.2163	.0867	-1.8108	-1.3006
7493	11.18	-.1411	-.1387	-.2454	.1094	.1908	.2102	.2321	.1890	-.1151	-2.9577	-1.7216
7494	13.56	-.1368	-.0993	-.3098	.1655	.2477	.2634	.2597	.1742	-.2718	-2.8009	-1.8259
7495	16.06	-.1435	-.1032	-.2893	.1961	.2773	.2776	.2570	.1427	-.3076	-1.7266	-1.6857
7496	18.58	-.3311	-.2804	-.4232	.2374	.3119	.3112	.2621	.1122	-.3977	-1.6027	-1.6791
7497	20.85	-.5494	-.4570	-.6178	.2580	.3309	.3231	.2690	.1233	-.3298	-1.0289	-1.0472
7498	23.15	-.6760	-.5896	-.7157	.2867	.3442	.3217	.2374	.0385	-.5175	-1.2240	-1.2745
7499	25.51	-.7470	-.6571	-.7596	.3133	.3655	.3281	.2231	.0068	-.5690	-1.1274	-1.1640
7500	27.00	-.7998	-.7046	-.7978	.3317	.3754	.3255	.2074	-.0265	-.6183	-1.1113	-1.1315
7501	-.12	-.1073	-.1232	-.2855	-.1265	-.1308	-.1390	-.1468	-.1245	-.0463	.2368	-.0027

TEST 63 RUN 18

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7486	-.14	-.0624	-.0773	-.0870	-.0932	-.0849	-.0804	-.0804	-.1979	-.1538	-.1655	-.1702
7487	-1.61	.0295	-.0020	-.0208	-.0457	-.0577	-.0765	-.0871	-.2253	-.2180	-.2523	-.2794
7488	2.42	-.2898	-.2589	-.2188	-.2017	-.1553	-.0997	-.0999	-.2278	-.1239	-.1072	-.0784
7489	3.73	-.4116	-.3530	-.2944	-.2580	-.1933	-.1075	-.1058	-.2192	-.0906	-.0586	-.0240
7490	6.20	-.7078	-.5511	-.4344	-.3736	-.2620	-.1211	-.1107	-.2043	-.0589	.0155	.0606
7491	8.72	-1.0103	-.7774	-.5941	-.4911	-.3266	-.1406	-.1277	-.1862	-.0170	.0782	.1357
7493	11.18	-1.1845	-.8988	-.7516	-.6822	-.5925	-.1556	-.1370	-.2092	.0248	.1316	.1843
7494	13.56	-1.5767	-1.2491	-.9190	-.8240	-.7458	-.4161	-.3417	-.3524	.0570	.1758	.2249
7495	16.06	-1.8516	-1.6352	-1.2678	-1.1217	-1.1502	-.6421	-.5047	-.4515	.0971	.2070	.2502
7496	18.58	-1.9011	-1.4863	-1.1127	-1.0927	-1.2298	-.7085	-.6312	-.6300	.1131	.2309	.2698
7497	20.85	-1.0614	-.9872	-.9493	-.9442	-1.0772	-.7241	-.6613	-.6540	.1284	.2437	.2708
7498	23.15	-1.3180	-1.1861	-1.1516	-1.1502	-1.1067	-.7949	-.7300	-.7417	.1667	.2751	.2888
7499	25.51	-1.1884	-1.1553	-1.1359	-1.1111	-1.1261	-.8373	-.7940	-.7762	.1832	.2851	.2939
7500	27.00	-1.1381	-1.1443	-1.1637	-1.1262	-1.1461	-.8509	-.7984	-.7847	.1998	.2980	.2932
7501	-.12	-.0988	-.0991	-.1002	-.1014	-.0850	-.0745	-.0782	-.2155	-.1750	-.1997	-.2066

TEST 63 RUN 18

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7486	-.14	-.1630	-.1473	-.0540	.1711	.0142	-.0503	-.0761	-.0901	-.1004	-.0821
7487	-1.61	-.3061	-.3144	-.2396	.0094	.1227	.0433	.0009	-.0379	-.0563	-.0605
7488	2.42	-.0311	.0272	.1427	.1952	-.2541	-.2723	-.2583	-.2319	-.2131	-.1463
7489	3.73	.0353	.1001	.1846	.0892	-.4313	-.4012	-.3511	-.2987	-.2588	-.1732
7490	6.20	.1359	.1888	.1806	-.3420	-.8549	-.7073	-.6040	-.4298	-.3749	-.2271
7491	8.72	.1971	.2039	.0454	-1.1199	-1.4632	-1.0006	-.7605	-.5891	-.4796	-.2815
7493	11.18	.2160	.1702	-.1617	-2.0935	-1.8395	-1.1914	-.7860	-.6249	-.5581	-.4834
7494	13.56	.2391	.1694	-.1829	-1.5961	-1.4750	-1.6741	-1.4788	-1.2103	-.9071	-.6524
7495	16.06	.2476	.1524	-.2150	-1.1842	-1.1036	-1.1035	-1.0769	-1.0325	-.9771	-.9545
7496	18.58	.2565	.1415	-.2358	-.9694	-.8984	-.9081	-.8565	-.8375	-.8042	-.7909
7497	20.85	.2422	.1187	-.2592	-.7644	-.7262	-.7299	-.7292	-.7856	-.7956	-.8059
7498	23.15	.2334	.0593	-.3675	-.8852	-.8380	-.8315	-.8347	-.8422	-.8332	-.8125
7499	25.51	.2136	.0028	-.4645	-.8683	-.8257	-.8569	-.8515	-.8809	-.8719	-.8566
7500	27.00	.1995	-.0292	-.5040	-.8692	-.8676	-.8940	-.8905	-.9155	-.9226	-.8943
7501	-.12	-.2078	-.1706	-.0752	.1925	.0189	-.0453	-.0775	-.1055	-.1005	-.0842

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 19

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7504	.161	1824.1	-.13	-.0620	.0149	.0250	-.0620	.0147	.0010	-4.17	.693
7505	.161	1812.0	-1.39	-.1065	.0166	.0306	-.1069	.0140	.0009	-6.43	.615
7506	.161	1813.6	2.44	.0275	.0149	.0148	.0281	.0137	.0012	1.85	.073
7507	.161	1812.1	4.02	.0820	.0168	.0088	.0830	.0110	.0013	4.89	.353
7508	.160	1805.2	6.52	.1672	.0227	-.0004	.1687	.0036	.0013	7.37	.425
7509	.160	1808.4	8.93	.2523	.0326	-.0111	.2543	-.0070	.0015	7.75	.453
7510	.160	1798.7	11.34	.3432	.0493	-.0240	.3462	-.0191	.0012	6.96	.470
7511	.160	1799.2	13.76	.4423	.0779	-.0390	.4482	-.0295	.0017	5.67	.482
7512	.160	1805.4	16.11	.5606	.1252	-.0603	.5733	-.0353	.0011	4.48	.494
7513	.160	1794.7	18.57	.7213	.2035	-.0939	.7486	-.0368	.0014	3.54	.508
7514	.160	1805.5	20.63	.7800	.2626	-.0820	.8224	-.0319	.0005	2.97	.491
7515	.161	1822.5	23.19	.8773	.3423	-.0990	.9412	-.0308	.0018	2.56	.494
7516	.161	1821.1	25.63	.9623	.4233	-.1117	1.0507	-.0346	.0001	2.27	.495
7517	.160	1807.5	27.31	1.0171	.4823	-.1220	1.1250	-.0381	-.0007	2.11	.496
7518	.161	1812.9	-.10	-.0608	.0146	.0251	-.0608	.0145	.0010	-4.18	.699

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 19

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7504	-.13	.0535	-.0013	-.0073	-.0112	-.0217	.0797	.0843	.2872	.0830	-.0142	-.0220
7505	-1.39	.0561	-.0327	-.0496	-.0489	-.0691	-.0046	-.0032	.2789	.1682	.0619	.0419
7506	2.44	.0876	.0770	.0838	.0804	.0985	.2174	.2170	.2004	-.1039	-.1597	-.1306
7507	4.02	.1252	.1163	.1299	.1277	.1480	.2666	.2673	.0296	-.2407	-.2471	-.2103
7508	6.52	.1713	.1805	.1975	.2017	.2274	.2964	.2955	-.4117	-.5170	-.4319	-.3530
7509	8.93	.2215	.2351	.2578	.2587	.2864	.2674	.2694	-.9626	-.8804	-.6513	-.4983
7510	11.34	.2761	.2907	.3151	.3128	.3313	.1941	.1935	-1.6869	-1.2696	-.8439	-.6525
7511	13.76	.3257	.3403	.3558	.3558	.3278	.0499	.0587	-2.5278	-1.5466	-1.0895	-.8350
7512	16.11	.3701	.3813	.3884	.3800	.3008	-.1218	-.1331	-3.3250	-1.9314	-1.3602	-1.0748
7513	18.57	.4173	.4275	.4213	.4104	.2692	-.3547	-.3592	-3.7976	-2.2145	-1.6966	-1.4077
7514	20.83	.4588	.4622	.4423	.4289	.2679	-.4478	-.4444	-2.7702	-2.4762	-2.2598	-1.8983
7515	23.19	.5115	.4984	.4674	.4482	.2562	-.6438	-.6448	-3.1908	-3.1815	-3.3896	-3.6053
7516	25.63	.5556	.5336	.4843	.4811	.2481	-.8616	-.8646	-3.2858	-3.3877	-3.5667	-4.1084
7517	27.31	.5804	.5501	.4865	.4336	.0681	-1.0271	-1.0252	-3.4091	-3.5542	-3.7340	-4.2955
7518	-.10	.0995	.0290	.0071	-.0087	-.0041	.0640	.0609	.2757	.0866	.0126	.0132

TEST 63 RUN 19

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7504	-.13	-.0132	-.0047	.0456	-.0189	-.0528	-.0481	-.0471	-.0201	.0510	.2606	.0319
7505	-1.39	.0361	.0427	.0716	-.0422	-.0907	-.0959	-.1050	-.0930	-.0488	.2496	.1107
7506	2.44	-.1098	-.0693	-.0066	.0447	.0314	.0535	.0766	.1151	.1908	.1828	-.1688
7507	4.02	-.1709	-.1105	-.0378	.0889	.0826	.1072	.1380	.1838	.2438	.0027	-.3412
7508	6.52	-.2725	-.1829	-.0974	.1355	.1505	.1794	.2195	.2503	.2663	-.4320	-.6466
7509	8.93	-.3860	-.2786	-.1714	.1786	.1979	.2310	.2683	.2826	.2290	-1.0516	-1.0048
7510	11.34	-.4843	-.3666	-.2387	.2214	.2561	.2818	.2981	.2815	.1313	-1.8214	-1.3450
7511	13.76	-.6192	-.5139	-.3829	.2578	.2988	.3087	.3021	.2433	-.0266	-2.7136	-1.6609
7512	16.11	-.7907	-.7187	-.5652	.2898	.3395	.3351	.3010	.1967	-.1893	-3.1789	-2.5978
7513	18.57	-1.0936	-.9077	-.8193	.3255	.3701	.3596	.2963	.1350	-.3678	-3.7228	-3.7814
7514	20.83	-1.5655	-1.4547	-1.0162	.3618	.3958	.3641	.2596	.0491	-.6041	-3.8898	-3.9029
7515	23.19	-2.9301	-2.1046	-1.1667	.3848	.4227	.3723	.2399	-.0064	-.6993	-3.2102	-3.4259
7516	25.63	-4.0417	-2.8640	-1.3132	.4229	.4585	.3926	.2357	-.0462	-.7992	-2.9685	-3.1662
7517	27.31	-4.4004	-3.3220	-1.5175	.4361	.4751	.3907	.2145	-.0896	-.8778	-2.8506	-2.9948
7518	-.10	.0221	.0340	.0692	-.0178	-.0684	-.0707	-.0594	-.0290	.0545	.2669	.0569

TEST 63 RUN 19

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7504	-.13	-.0037	.0024	-.0122	-.0248	-.0365	-.0950	-.0986	-.0893	-.0633	.0220	.2247
7505	-1.39	.0543	.0525	.0223	.0074	-.0329	-.1432	-.1594	-.1594	-.1559	-.0828	.1976
7506	2.44	-.1760	-.1372	-.1274	-.1145	-.0343	-.0115	.0054	.0448	.0902	.1843	.0784
7507	4.02	-.2868	-.2367	-.1727	-.1647	.0169	.0392	.0648	.1081	.1584	.2308	-.1381
7508	6.52	-.5075	-.3758	-.2879	-.2485	.0694	.1134	.1443	.1910	.2286	.2336	-.7152
7509	8.93	-.6949	-.5290	-.3935	-.3298	.1102	.1700	.2036	.2395	.2499	.1467	-1.5003
7510	11.34	-.9414	-.7217	-.5408	-.4517	.1064	.2211	.2465	.2625	.2314	-.0092	-2.5025
7511	13.76	-1.1701	-.9325	-.7454	-.7258	.1115	.2760	.2785	.2689	.1851	-.2419	-3.3863
7512	16.11	-1.7325	-1.1958	-.9652	-.7684	.1867	.3137	.3005	.2567	.1087	-.4953	-4.0763
7513	18.57	-3.5718	-2.0092	-1.0989	-.9389	.3006	.3397	.3192	.2450	.0389	-.6899	-4.0454
7514	20.83	-4.1941	-2.8036	-1.4321	-1.1983	.3473	.3725	.3360	.2358	.0004	-.8184	-3.4101
7515	23.19	-3.6788	-2.9854	-2.2743	-2.0647	.3303	.4127	.3607	.2477	-.0090	-.7859	-2.3753
7516	25.63	-3.2666	-2.9073	-2.6934	-2.7116	.3774	.4273	.3704	.2367	-.0354	-.8026	-1.9600
7517	27.31	-2.9615	-2.7337	-2.5551	-2.4462	.0203	.4354	.3668	.2209	-.0640	-.8478	-1.8299
7518	-.10	.0093	.0183	-.0222	-.0327	-.0808	-.1224	-.1209	-.0958	-.0671	.0359	.2301

TEST 63 RUN 19

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7504	-.13	.0245	-.0171	-.0627	-.0665	-.0744	-.0728	-.0435	-.1303	-.1411	-.1304	-.0956
7505	-1.39	.1162	.0536	-.0048	-.0148	-.0295	-.0467	-.0732	-.1773	-.2046	-.2148	-.2056
7506	2.44	-.2064	-.2080	-.2291	-.1853	-.1699	-.1490	-.0097	-.0407	-.0270	.0090	.0613
7507	4.02	-.3917	-.3407	-.3304	-.2657	-.2358	-.1933	.0336	.0114	.0355	.0863	.1408
7508	6.52	-.7408	-.5661	-.5238	-.3716	-.3415	-.2662	.0918	.0921	.1121	.1672	.2079
7509	8.93	-1.1742	-.7702	-.7146	-.4977	-.4236	-.3300	.1390	.1518	.1832	.2203	.2326
7510	11.34	-1.4747	-1.0086	-.9190	-.6460	-.5423	-.4672	.1788	.1958	.2230	.2427	.2129
7511	13.76	-1.8911	-1.3107	-1.1724	-.8618	-.7189	-.5849	.2163	.2455	.2541	.2439	.1628
7512	16.11	-2.1191	-1.5788	-1.4317	-1.1225	-.9995	-.7614	.2613	.2868	.2812	.2491	.1100
7513	18.57	-3.1712	-2.7955	-2.2995	-1.4053	-1.1426	-1.0458	.3026	.3219	.3014	.2299	.0449
7514	20.83	-3.3273	-3.3415	-3.3316	-1.9361	-1.7258	-1.5981	.3419	.3580	.3335	.2503	.0484
7515	23.19	-2.2937	-2.3492	-2.3074	-2.0722	-2.0044	-2.4198	.3689	.3847	.3591	.2669	.0751
7516	25.63	-1.9966	-1.9571	-1.9223	-1.7983	-1.6867	-2.1083	.3852	.3925	.3454	.2418	.0214
7517	27.31	-1.6660	-1.8815	-1.8730	-1.8226	-1.8043	-2.0044	.4080	.4078	.3497	.2096	-.0321
7518	-.10	.0408	-.0122	-.0673	-.0749	-.0867	-.0964	-.0721	-.1472	-.1499	-.1297	-.0940

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 19

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7504	-.13	-.0358	.2601	.0025	-.0492	-.0830	-.1034	-.1098	-.0963	-.0771	-.0614	-.0863
7505	-1.39	-.1677	.2185	.0917	.0298	-.0032	-.0380	-.0514	-.0529	-.0532	-.0407	-.0712
7506	2.44	.1455	.2151	-.2363	-.2391	-.2391	-.2133	-.1976	-.1539	-.0956	-.0737	-.0969
7507	4.02	.2000	.0225	-.4370	-.3922	-.3564	-.2892	-.2582	-.1950	-.1059	-.0848	-.1000
7508	6.52	.2036	-.4903	-.8202	-.6351	-.5346	-.4289	-.3773	-.2718	-.1308	-.1056	-.1132
7509	8.93	.1087	-1.2263	-1.2557	-.9038	-.7489	-.5721	-.4864	-.3571	-.1671	-.1242	-.1351
7510	11.34	-.0552	-2.0938	-1.5554	-1.1398	-.9481	-.7141	-.6398	-.5000	-.1956	-.1603	-.1581
7511	13.76	-.2733	-2.8705	-1.9466	-1.4515	-1.2561	-.9056	-.7990	-.5720	-.3629	-.3058	-.2956
7512	16.11	-.4961	-3.3116	-2.3215	-2.0245	-1.6217	-1.1467	-.9806	-.6596	-.5854	-.5353	-.5063
7513	18.57	-.6565	-3.2350	-2.6767	-2.7373	-2.3249	-1.4293	-1.1820	-.9690	-.8576	-.7581	-.6480
7514	20.83	-.6229	-2.1301	-2.1021	-2.1512	-2.0016	-1.6992	-1.6148	-1.5251	-.9420	-.5940	-.4979
7515	23.19	-.5243	-1.4694	-1.4076	-1.4200	-1.3709	-1.3612	-1.2668	-1.3545	-.9001	-.7849	-.7457
7516	25.63	-.5910	-1.3241	-1.3670	-1.3763	-1.3907	-1.4160	-1.3440	-1.4138	-1.0051	-.8661	-.8306
7517	27.31	-.7357	-1.4506	-1.5151	-1.4760	-1.5013	-1.4503	-1.4189	-1.4237	-1.0374	-.9391	-.8820
7518	-.10	-.0085	.2857	.0120	-.0673	-.1079	-.1316	-.1299	-.0994	-.0608	-.0344	-.0481

TEST 63 RUN 19

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7504	-.13	-.0911	-.1154	-.2846	-.1455	-.1537	-.1686	-.1758	-.1493	-.0448	.2407	.0122
7505	-1.39	-.0824	-.1077	-.2925	-.1940	-.2041	-.2274	-.2534	-.2451	-.1925	.1952	.0973
7506	2.44	-.0981	-.1172	-.2689	-.0668	-.0538	-.0473	-.0155	.0388	.1463	.1128	-.2452
7507	4.02	-.0982	-.1143	-.2459	-.0288	.0014	.0230	.0615	.1201	.1990	-.1691	-.4561
7508	6.52	-.1096	-.1133	-.2274	.0243	.0741	.1038	.1568	.2010	.1912	-.8530	-.8723
7509	8.93	-.1240	-.1271	-.2452	.0594	.1281	.1577	.2087	.2150	.0786	-1.7595	-1.2812
7510	11.34	-.1437	-.1342	-.1977	.1138	.1811	.2032	.2233	.1816	-.1218	-2.7724	-1.6908
7511	13.76	-.2667	-.2388	-.3293	.1516	.2269	.2340	.2307	.1333	-.3556	-3.5106	-2.3686
7512	16.11	-.4691	-.3797	-.4651	.1970	.2625	.2585	.2279	.0744	-.5380	-3.4410	-3.0946
7513	18.57	-.5623	-.4163	-.5035	.2432	.3029	.2856	.2104	.0089	-.7263	-2.7201	-3.0921
7514	20.83	-.4081	-.3751	-.6220	.2627	.3294	.3113	.2555	.0621	-.5409	-1.7455	-1.7356
7515	23.19	-.6750	-.5821	-.7199	.2737	.3303	.3159	.2513	.0879	-.3901	-.9787	-1.0361
7516	25.63	-.7594	-.6632	-.7619	.3193	.3580	.3241	.2252	.0090	-.5783	-1.1716	-1.1930
7517	27.31	-.8244	-.7329	-.8159	.3339	.3648	.3163	.1965	-.0427	-.6516	-1.1476	-1.2105
7518	-.10	-.0553	-.0877	-.2785	-.1515	-.1753	-.1918	-.1892	-.1508	-.0424	.2485	.0358

TEST 63 RUN 19

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7504	-.13	-.0708	-.0752	-.0825	-.0908	-.0879	-.0837	-.0911	-.2281	-.1789	-.1961	-.2013
7505	-1.39	.0050	-.0149	-.0393	-.0590	-.0691	-.0809	-.0872	-.2312	-.2136	-.2420	-.2598
7506	2.44	-.2863	-.2528	-.2143	-.1969	-.1694	-.1025	-.0998	-.2211	-.1189	-.1074	-.0792
7507	4.02	-.4310	-.3815	-.3023	-.2682	-.2095	-.1078	-.1033	-.2104	-.0941	-.0529	-.0164
7508	6.52	-.7411	-.5717	-.4469	-.3796	-.2728	-.1177	-.1053	-.1796	-.0495	.0260	.0752
7509	8.93	-.9868	-.7714	-.5794	-.4822	-.3469	-.1431	-.1214	-.1979	-.0149	.0791	.1335
7510	11.34	-1.2180	-.9588	-.7523	-.6562	-.5062	-.1866	-.1585	-.2001	.0226	.1241	.1764
7511	13.76	-1.5859	-1.1560	-.8390	-.6880	-.5331	-.2932	-.2683	-.2808	.0592	.1733	.2083
7512	16.11	-3.0390	-1.7677	-1.0069	-.7789	-.5729	-.4246	-.3974	-.4143	.0963	.2203	.2510
7513	18.57	-3.1192	-2.0587	-1.1745	-1.0328	-.9133	-.7836	-.6804	-.6382	.1367	.2540	.2791
7514	20.83	-1.9635	-1.5216	-1.2706	-1.2541	-1.1138	-.7486	-.6735	-.6910	.1463	.2696	.2969
7515	23.19	-1.0279	-.9309	-.9407	-.9250	-.9958	-.7529	-.6845	-.6863	.1607	.2683	.2868
7516	25.63	-1.2060	-1.1793	-1.1528	-1.1165	-1.0910	-.8152	-.7806	-.7584	.1893	.2902	.2967
7517	27.31	-1.1791	-1.1943	-1.1900	-1.1234	-1.1150	-.8768	-.8285	-.7887	.2077	.3030	.2977
7518	-.10	-.0506	-.0686	-.0903	-.1092	-.1188	-.1109	-.1108	-.2431	-.1824	-.1873	-.1828

TEST 63 RUN 19

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7504	-.13	-.1873	-.1646	-.0614	.2052	.0320	-.0472	-.0745	-.1111	-.1093	-.0929
7505	-1.39	-.2827	-.2872	-.2120	.0620	.1157	.0292	-.0140	-.0479	-.0697	-.0639
7506	2.44	-.0322	.0323	.1393	.1997	-.2430	-.2820	-.2563	-.2300	-.2152	-.1469
7507	4.02	.0464	.1163	.1917	.0645	-.4704	-.4351	-.3766	-.3165	-.2749	-.1734
7508	6.52	.1450	.1985	.1742	-.3891	-.8984	-.7767	-.6270	-.4510	-.4016	-.2401
7509	8.93	.1964	.2040	.0499	-1.1026	-1.4766	-.9793	-.7470	-.5873	-.4790	-.2867
7510	11.34	.2072	.1625	-.1871	-2.0471	-1.9125	-1.2769	-.9266	-.6942	-.5826	-.4533
7511	13.76	.2051	.0837	-.4525	-2.7532	-2.0371	-1.3904	-1.0571	-.9033	-.7856	-.4441
7512	16.11	.2260	.0499	-.5612	-2.6718	-2.6983	-3.0338	-1.8898	-.6676	-.4902	-.3902
7513	18.57	.2353	.0617	-.5138	-1.7673	-1.7790	-1.6561	-1.4940	-1.3131	-1.2015	-1.0132
7514	20.83	.2667	.1370	-.2773	-.8663	-.8201	-.8638	-.8015	-.7800	-.6842	-.6148
7515	23.19	.2254	.0690	-.3504	-.8396	-.8453	-.8567	-.8257	-.8641	-.8504	-.8321
7516	25.63	.2067	-.0064	-.4924	-.9238	-.9181	-.8973	-.9006	-.9081	-.8890	-.8529
7517	27.31	.1872	-.0405	-.5602	-.9383	-.9395	-.9380	-.9507	-.9528	-.9303	-.8846
7518	-.10	-.1671	-.1413	-.0516	.2095	.0152	-.0733	-.1003	-.0994	-.1273	-.0929

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 20

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7533	.160	1810.7	-.15	-.0609	.0162	.0232	-.0610	.0160	.0010	-3.76	.678
7534	.160	1807.6	-1.62	-.1154	.0187	.0298	-.1158	.0155	.0009	-6.16	.596
7535	.161	1817.9	2.34	.0264	.0160	.0145	.0271	.0149	.0012	1.66	.066
7536	.161	1815.8	3.84	.0789	.0176	.0092	.0799	.0123	.0012	4.48	.347
7537	.161	1813.2	6.49	.1718	.0239	-.0009	.1734	.0043	.0014	7.20	.427
7538	.161	1817.5	8.83	.2540	.0331	-.0108	.2561	-.0063	.0014	7.67	.452
7539	.160	1810.0	11.14	.3411	.0484	-.0240	.3440	-.0185	.0020	7.05	.470
7540	.161	1814.9	13.48	.4367	.0759	-.0385	.4424	-.0280	.0008	5.76	.482
7541	.161	1823.0	15.81	.5349	.1171	-.0532	.5466	-.0331	.0011	4.57	.489
7544	.161	1822.2	18.27	.6496	.1754	-.0716	.6719	-.0371	.0022	3.70	.495
7545	.161	1829.9	20.89	.7614	.2445	-.0875	.7985	-.0430	.0018	3.11	.497
7546	.161	1817.4	23.05	.8513	.3096	-.1015	.9046	-.0485	.0017	2.75	.499
7547	.161	1822.6	25.00	.9224	.3725	-.1112	.9934	-.0522	.0011	2.48	.499
7548	.161	1822.6	27.23	.9953	.4503	-.1216	1.0911	-.0551	.0003	2.21	.498
7549	.160	1805.9	-.12	-.0628	.0160	.0243	-.0628	.0159	.0010	-3.93	.682

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 20

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7533	-.15	.0548	-.0200	-.0241	-.0274	-.0304	.0806	.0789	.2962	.1108	.0087	-.0031
7534	-1.62	.0148	-.0554	-.0731	-.0682	-.1030	-.0346	-.0290	.2754	.1800	.0786	.0598
7535	2.34	.0156	.0742	.0792	.0786	.0805	.2142	.2139	.2145	-.1019	-.1537	-.1300
7536	3.84	.0199	.1185	.1302	.1283	.1381	.2586	.2659	.0449	-.2356	-.2458	-.2085
7537	6.49	.0238	.1947	.2132	.2100	.2330	.2976	.2982	-.3903	-.5226	-.4408	-.3628
7538	8.83	.0506	.2514	.2753	.2708	.2858	.2739	.2728	-.9620	-.8740	-.6410	-.5033
7539	11.14	.0235	.3011	.3204	.3203	.3315	.2011	.1971	-1.6490	-1.2706	-.8499	-.6650
7540	13.48	.0402	.3528	.3659	.3643	.3616	.0776	.0646	-2.4925	-1.5521	-1.0827	-.8310
7541	15.81	.0476	.4031	.3994	.3993	.3657	-.1129	-.1325	-3.3082	-1.9383	-1.3262	-1.0274
7544	18.27	.3976	.4498	.4410	.4389	.3747	-.3242	-.3297	-3.8465	-2.2113	-1.6496	-1.3689
7545	20.89	.2849	.5004	.4728	.4741	.3811	-.4937	-.4976	-3.4634	-3.0554	-2.9286	-2.5322
7546	23.05	.2491	.5304	.4949	.4913	.3738	-.6280	-.6219	-3.2331	-3.1960	-3.4695	-3.8955
7547	25.00	.1987	.5523	.5050	.5028	.3489	-.7774	-.7934	-3.3212	-3.3405	-3.5198	-4.5166
7548	27.23	.1152	.5895	.5283	.5248	.3386	-.8877	-.9302	-3.2239	-3.4249	-3.5815	-4.0597
7549	-.12	-.0086	-.0063	-.0080	.0080	-.0010	.1016	.0920	.3013	.0954	-.0134	-.0224

TEST 63 RUN 20

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7533	-.15	-.0047	.0034	.0504	-.0083	-.0510	-.0549	-.0615	-.0423	.0435	.2719	.0465
7534	-1.62	.0432	.0533	.0863	-.0229	-.1036	-.1314	-.1852	-.1872	-.1242	.2483	.1376
7535	2.34	-.1090	-.0713	-.0010	.0551	.0358	.0815	.0989	.1379	.2033	.1815	-.1676
7536	3.84	-.1642	-.1124	-.0335	.1054	.0818	.1395	.1878	.2115	.2640	.0012	-.3462
7537	6.49	-.2833	-.1914	-.0875	.1487	.1578	.2469	.3089	.3214	.3006	-.4948	-.6676
7538	8.83	-.3794	-.2775	-.1479	.1806	.2108	.3192	.3853	.3665	.2525	-1.1845	-1.0543
7539	11.14	-.4863	-.3601	-.2176	.2173	.2573	.3811	.4423	.3809	.1612	-2.0745	-1.4199
7540	13.48	-.6051	-.4882	-.3445	.2460	.2943	.4391	.4931	.3849	.0220	-2.8429	-1.7189
7541	15.81	-.7690	-.6745	-.4984	.2775	.3305	.4875	.5305	.3764	-.1122	-3.4771	-2.5021
7544	18.27	-1.0140	-.8667	-.7273	.3174	.3634	.5302	.5609	.3698	-.2158	-2.7826	-2.6347
7545	20.89	-1.5931	-1.1883	-.6825	.3595	.4068	.5635	.5824	.3500	-.2949	-2.2921	-2.2531
7546	23.05	-2.8747	-1.6459	-.6979	.3844	.4249	.5883	.6034	.3507	-.3466	-2.1414	-2.1033
7547	25.00	-3.4663	-2.2717	-.8742	.4155	.4467	.6128	.6125	.3291	-.4309	-2.1798	-2.1272
7548	27.23	-4.1534	-3.1573	-1.3054	.4432	.4674	.6363	.6185	.3203	-.5029	-2.0672	-2.0877
7549	-.12	-.0267	-.0006	.0564	.0049	-.0296	-.0248	-.0490	-.0342	.0336	.2669	.0293

TEST 63 RUN 20

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7533	-.15	-.0079	.0025	-.0238	-.0322	-.0340	-.1176	-.1157	-.0950	-.0800	.0216	.2288
7534	-1.62	.0665	.0666	.0335	.0100	-.0015	-.1702	-.1781	-.1770	-.1725	-.1031	.1701
7535	2.34	-.1733	-.1400	-.1348	-.1121	-.0652	-.0115	.0010	.0367	.0809	.1883	.1435
7536	3.84	-.2976	-.2392	-.1812	-.1620	-.1024	.0385	.0632	.1077	.1586	.2475	-.0354
7537	6.49	-.5274	-.3699	-.2887	-.2492	-.1679	.1234	.1702	.2128	.2665	.2977	-.5527
7538	8.83	-.7539	-.5671	-.4255	-.3394	-.2291	.1519	.2344	.3076	.3458	.3020	-1.2022
7539	11.14	-.9620	-.7354	-.5417	-.4220	-.3011	.0849	.2208	.3864	.4202	.2705	-2.0139
7540	13.48	-1.2126	-.9752	-.7390	-.6112	-.4797	.2267	-.0004	.2928	.5154	.2665	-2.9113
7541	15.81	-1.6903	-1.2014	-.9955	-.8791	-.6995	.2704	.1576	-.2008	.3079	.3202	-3.6698
7544	18.27	-2.5757	-2.0253	-1.5159	-1.1621	-.9040	.3506	.2499	-.0483	-.5558	.1353	-4.5280
7545	20.89	-2.2020	-1.9886	-1.6753	-1.3496	-1.0888	.3767	.2942	.0397	-.5585	-.8353	-4.8159
7546	23.05	-1.9845	-1.7245	-1.4712	-1.3801	-1.2095	.3827	.3006	-.0016	-.5849	-1.6296	-5.5530
7547	25.00	-1.9673	-1.6947	-1.3981	-1.3984	-1.3143	.4110	.2893	-.0219	-.6560	-2.1745	-6.1238
7548	27.23	-1.9668	-1.7470	-1.4472	-1.3535	-1.3886	.4248	.2806	-.0458	-.7872	-2.5691	-6.7015
7549	-.12	-.0230	-.0113	-.0386	-.0389	-.0253	-.0947	-.0955	-.0721	-.0529	.0354	.2306

TEST 63 RUN 20

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7533	-.15	.0354	-.0133	-.0591	-.0617	-.0730	-.0703	-.0346	-.1179	-.1701	-.2092	-.1985
7534	-1.62	.1273	.0605	.0018	-.0080	-.0264	-.0398	-.0963	-.1545	-.2583	-.3579	-.3648
7535	2.34	-.1752	-.1789	-.2142	-.1763	-.1708	-.1418	.0032	-.0376	-.0207	-.0011	.0364
7536	3.84	-.3523	-.2974	-.3148	-.2546	-.2337	-.1850	.0342	.0081	.0562	.1075	.1440
7537	6.49	-.7149	-.5910	-.5349	-.3856	-.3534	-.2577	.0990	.0917	.1810	.2476	.2638
7538	8.83	-1.1209	-.7641	-.7222	-.5122	-.4446	-.3192	.1361	.1523	.2705	.3406	.3083
7539	11.14	-1.5777	-1.0111	-.9176	-.6414	-.5412	-.4029	.1713	.1951	.3379	.4049	.3165
7540	13.48	-1.7415	-1.1818	-1.0249	-.7463	-.6932	-.5971	.2121	.2395	.3975	.4586	.3117
7541	15.81	-2.0418	-1.3146	-1.2225	-1.1508	-1.0257	-.5081	.2128	.2821	.4549	.4746	.2808
7544	18.27	-2.2851	-1.6011	-1.6803	-1.4952	-.9373	-.6626	.2397	.2989	.4732	.5164	.2944
7545	20.89	-2.6870	-2.6358	-2.5747	-1.3171	-.9178	-.8849	.2693	.3293	.5103	.5348	.2668
7546	23.05	-3.2167	-2.9504	-2.7005	-1.6208	-1.1636	-1.0312	.3079	.3565	.5392	.5524	.2426
7547	25.00	-3.6385	-3.2818	-3.1642	-1.8369	-1.2878	-1.2443	.3278	.3723	.5583	.5604	.2147
7548	27.23	-4.2700	-3.9412	-4.0604	-2.0240	-1.5624	-1.5374	.3421	.3937	.5795	.5649	.2049
7549	-.12	.0329	-.0276	-.0783	-.0797	-.0847	-.0773	-.0351	-.1141	-.1605	-.1990	-.1722

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 20

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7533	-.15	-.1058	.2630	.0077	-.0381	-.0690	-.0912	-.0965	-.0776	-.0558	-.0452	-.0744
7534	-1.62	-.2889	.1959	.1216	.0537	.0142	-.0339	-.0517	-.0539	-.0483	-.0352	-.0640
7535	2.34	.1335	.2313	-.2371	-.2370	-.2378	-.2232	-.2033	-.1437	-.0912	-.0736	-.0972
7536	3.84	.2117	.0590	-.4142	-.3870	-.3564	-.2918	-.2647	-.1887	-.1067	-.0884	-.1011
7537	6.49	.2305	-.5212	-.8758	-.6393	-.5495	-.4359	-.3748	-.2607	-.1300	-.1008	-.1168
7538	8.83	.1404	-1.3201	-1.2586	-.9239	-.7559	-.5735	-.4787	-.3222	-.1526	-.1209	-.1340
7539	11.14	-.0277	-2.2782	-1.6461	-1.2015	-.9888	-.7111	-.5550	-.4085	-.2024	-.1634	-.1637
7540	13.48	-.2413	-3.2909	-1.7701	-1.3420	-1.2984	-1.1489	-.9489	-.6304	-.2895	-.2250	-.2193
7541	15.81	-.3063	-2.6465	-2.0431	-2.0565	-1.9497	-1.5083	-1.2864	-.8081	-.3772	-.3035	-.2862
7544	18.27	-.3905	-1.9202	-1.7749	-1.7173	-1.6457	-1.5743	-1.3937	-.9536	-.5585	-.4829	-.4581
7545	20.89	-.5429	-1.9057	-1.8618	-1.7655	-1.6806	-1.5941	-1.4139	-1.0044	-.6774	-.6129	-.5624
7546	23.05	-.7054	-1.9524	-1.9304	-1.8374	-1.7801	-1.6540	-1.4826	-1.0366	-.7750	-.6915	-.6717
7547	25.00	-.7891	-1.9235	-1.9569	-1.8701	-1.7710	-1.5893	-1.4080	-1.0344	-.8749	-.7960	-.7525
7548	27.23	-.8138	-1.7468	-1.8547	-1.7386	-1.6143	-1.3342	-1.1920	-1.0024	-.9783	-.9051	-.8760
7549	-.12	-.1099	.2591	.0193	-.0296	-.0516	-.0801	-.0914	-.0812	-.0770	-.0679	-.0973

TEST 63 RUN 20

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7533	-.15	-.0871	-.1123	-.2903	-.1437	-.1492	-.1568	-.1524	-.1216	-.0233	.2445	.0094
7534	-1.62	-.0754	-.1006	-.2909	-.1672	-.2008	-.2203	-.2424	-.2406	-.1860	.1862	.0999
7535	2.34	-.0998	-.1142	-.2730	-.0545	-.0602	-.0428	-.0187	.0445	.1517	.1404	-.2257
7536	3.84	-.1009	-.1153	-.2482	-.0245	.0034	.0168	.0632	.1224	.2161	-.0680	-.4174
7537	6.49	-.1101	-.1188	-.2746	.0410	.0838	.1226	.1798	.2400	.2609	-.6758	-.8079
7538	8.83	-.1242	-.1281	-.2620	.0840	.1525	.2069	.2715	.3111	.2266	-1.5211	-1.3292
7539	11.14	-.1461	-.1372	-.2261	.0818	.1485	.2472	.3693	.3826	.1635	-2.4680	-1.7298
7540	13.48	-.1926	-.1667	-.2789	.1334	.1432	.0963	.3173	.4735	.1174	-3.2315	-1.9527
7541	15.81	-.2569	-.2244	-.2956	.1770	.2093	.1205	-.2320	.3128	.1740	-3.9617	-2.1086
7544	18.27	-.4335	-.3744	-.4282	.2289	.2725	.1815	-.1415	-.3383	-.0100	-4.2811	-2.3070
7545	20.89	-.5280	-.4473	-.5033	.2751	.3142	.2283	-.1020	-.7345	-.6534	-5.0279	-2.6062
7546	23.05	-.6239	-.5366	-.5955	.2970	.3263	.2339	-.1145	-.8504	-1.4644	-5.5391	-2.9921
7547	25.00	-.7129	-.6159	-.6736	.3265	.3445	.2328	-.1315	-.8662	-2.2069	-5.6064	-3.2121
7548	27.23	-.8292	-.7307	-.7849	.3477	.3566	.2273	-.1547	-.8990	-2.5267	-5.5746	-3.5076
7549	-.12	-.1025	-.1211	-.2799	-.1289	-.1281	-.1347	-.1421	-.1211	-.0322	.2343	-.0072

TEST 63 RUN 20

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7533	-.15	-.0793	-.0799	-.0940	-.1082	-.1026	-.0936	-.0958	-.2383	-.1783	-.1920	-.1952
7534	-1.62	.0044	-.0081	-.0314	-.0531	-.0631	-.0772	-.0853	-.2282	-.1990	-.2459	-.2690
7535	2.34	-.2682	-.2387	-.2132	-.1996	-.1557	-.0993	-.0968	-.2233	-.1214	-.1040	-.0807
7536	3.84	-.4206	-.3543	-.2910	-.2611	-.1985	-.1039	-.1005	-.2158	-.0918	-.0529	-.0170
7537	6.49	-.7077	-.5656	-.4404	-.3834	-.2667	-.1209	-.1089	-.2258	-.0534	.0185	.0636
7538	8.83	-1.0307	-.7940	-.6086	-.5106	-.3422	-.1370	-.1212	-.2186	-.0068	.0901	.1452
7539	11.14	-1.2803	-.9733	-.7513	-.6163	-.4338	-.1591	-.1395	-.2169	.0248	.1362	.1863
7540	13.48	-1.3367	-1.0887	-1.0124	-.9420	-.4793	-.1752	-.1502	-.1868	.0761	.1825	.2261
7541	15.81	-1.5017	-1.4656	-1.5158	-.7453	-.4489	-.2248	-.1980	-.2072	.0926	.2152	.2303
7544	18.27	-1.9670	-2.0680	-1.2988	-.6561	-.5428	-.3435	-.3228	-.3391	.1216	.2412	.2732
7545	20.89	-2.4283	-2.5185	-1.1555	-.7531	-.6862	-.4834	-.4457	-.4326	.1602	.2754	.2919
7546	23.05	-2.7969	-2.5675	-1.2734	-.9035	-.8432	-.5985	-.5447	-.5280	.1885	.2909	.2985
7547	25.00	-2.8710	-2.6483	-1.4218	-1.0175	-.9172	-.6878	-.6551	-.6351	.2138	.3109	.3044
7548	27.23	-3.2498	-2.8201	-1.5992	-1.1464	-1.0537	-.7975	-.7404	-.7233	.2321	.3262	.3117
7549	-.12	-.1021	-.1032	-.1103	-.1123	-.1024	-.0817	-.0841	-.2180	-.1672	-.1867	-.2009

TEST 63 RUN 20

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7533	-.15	-.1845	-.1552	-.0636	.2007	.0228	-.0573	-.0808	-.1047	-.1133	-.0939
7534	-1.62	-.2990	-.3005	-.2442	.0269	.1176	.0350	-.0079	-.0474	-.0643	-.0651
7535	2.34	-.0304	.0327	.1411	.2045	-.2334	-.2636	-.2474	-.2197	-.2065	-.1418
7536	3.84	.0485	.1118	.1928	.0716	-.4387	-.4133	-.3581	-.3062	-.2725	-.1773
7537	6.49	.1349	.1882	.1696	-.4211	-.9481	-.7857	-.6396	-.4624	-.4059	-.2449
7538	8.83	.2027	.2121	.0466	-1.1177	-1.5028	-1.0134	-.7832	-.6090	-.5079	-.2954
7539	11.14	.2225	.1735	-.1726	-2.0760	-2.0464	-1.3581	-.9874	-.7220	-.5862	-.4115
7540	13.48	.2198	.1036	-.4369	-3.0308	-2.1373	-1.2545	-1.0627	-1.0110	-.9389	-.9118
7541	15.81	.2044	.0830	-.4809	-2.5970	-1.9724	-1.8235	-1.7707	-1.7459	-1.5874	-.7629
7544	18.27	.2241	.0406	-.5587	-1.9932	-1.8348	-1.8725	-1.8611	-2.0994	-1.7510	-.9204
7545	20.89	.2045	-.0445	-.7443	-2.0562	-1.9161	-1.9259	-1.9003	-2.0313	-1.7662	-1.0420
7546	23.05	.1836	-.0971	-.8496	-1.8698	-1.8270	-1.7909	-1.7589	-1.9513	-1.7046	-1.1274
7547	25.00	.1715	-.1336	-.8942	-1.7118	-1.7433	-1.7153	-1.6812	-1.7835	-1.6207	-1.1306
7548	27.23	.1559	-.1703	-.9521	-1.5937	-1.6152	-1.5693	-1.5127	-1.5799	-1.4439	-1.0857
7549	-.12	-.2007	-.1749	-.0775	.1914	.0059	-.0680	-.0826	-.1078	-.1063	-.0890

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 22

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7593	.160	1797.8	-.18	-.0814	.0207	.0224	-.0815	.0204	.0008	-3.93	.607
7594	.161	1817.6	-1.64	-.1456	.0264	.0307	-.1463	.0222	.0006	-5.52	.564
7595	.161	1810.1	2.38	.0203	.0177	.0117	.0210	.0169	.0008	1.14	.053
7596	.161	1817.5	3.76	.0710	.0186	.0070	.0721	.0139	.0009	3.82	.359
7597	.161	1816.3	6.53	.1666	.0240	-.0007	.1683	.0049	.0010	6.93	.427
7598	.160	1806.1	8.95	.2522	.0334	-.0083	.2543	-.0062	.0013	7.54	.446
7599	.161	1818.8	11.23	.3455	.0497	-.0215	.3485	-.0185	.0014	6.95	.465
7600	.160	1803.3	13.57	.4418	.0752	-.0335	.4471	-.0306	.0013	5.87	.474
7601	.161	1808.7	16.10	.5623	.1200	-.0493	.5735	-.0406	.0018	4.69	.481
7602	.161	1812.5	18.52	.6845	.1788	-.0634	.7058	-.0478	.0040	3.83	.484
7603	.161	1817.5	20.75	.7887	.2452	-.0725	.8244	-.0502	.0089	3.22	.483
7604	.161	1823.4	23.02	.8465	.3101	-.0748	.9004	-.0456	-.0034	2.73	.479
7605	.161	1813.5	25.58	.9739	.4060	-.0948	1.0538	-.0543	.0002	2.40	.484
7606	.161	1810.4	27.06	1.0244	.4592	-.1016	1.1212	-.0571	-.0004	2.23	.484
7607	.160	1788.8	-.16	-.0808	.0201	.0228	-.0809	.0199	.0010	-4.01	.612

0.76cm projection.

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 22

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7593	-.18	.7964	.0769	.0369	-.0038	.0128	.0643	.0579	.1604	.0004	.0080	.0032
7594	-1.64	.8156	.0149	-.0374	-.0748	-.0818	-.0309	-.0345	.2682	.1522	.0961	.0675
7595	2.38	.7135	.1339	.1108	.1040	.1505	.2191	.2241	.1769	-.1032	-.1426	-.1195
7596	3.76	.6478	.1744	.1545	.1530	.2011	.2697	.2698	.0568	-.2276	-.2377	-.2017
7597	6.53	.4366	.2455	.2381	.2399	.2927	.3067	.3073	-.4297	-.4962	-.4356	-.3674
7598	8.95	.2181	.3090	.3064	.3024	.3253	.2708	.2758	-1.0177	-.8579	-.6618	-.5099
7599	11.23	.1485	.3589	.3561	.3524	.3405	.1854	.1833	-1.6875	-1.0495	-.8764	-.6955
7600	13.57	.1985	.4184	.4050	.3928	.3279	.0510	.0419	-2.5427	-1.4444	-1.1236	-.8735
7601	16.10	.0526	.4710	.4415	.3992	.2815	-.1804	-.1723	-2.9069	-1.4533	-1.4173	-1.1647
7602	18.52	.1513	.5262	.4852	.4164	.2237	-.3663	-.3697	-2.9826	-1.7658	-1.7553	-1.4993
7603	20.75	.2865	.5762	.5182	.4296	.1939	-.4914	-.4939	-3.0775	-3.0460	-3.0829	-3.1085
7604	23.02	.3360	.6066	.5362	.4570	.1255	-.6953	-.7009	-3.2302	-3.3290	-3.4797	-3.8348
7605	25.58	.4215	.6406	.5484	.5042	.0521	-.9152	-.9161	-3.2928	-3.4215	-3.5606	-4.1705
7606	27.06	.4465	.6629	.5578	.5370	.1502	-1.0495	-1.0402	-3.3569	-3.5032	-3.6417	-3.9524
7607	-.16	.7860	.0484	.0108	.0151	-.0015	.0944	.0951	.3081	.1308	.0205	.0150

TEST 63 RUN 22

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7593	-.18	.0328	.0420	.0857	.2461	.2797	.2982	.3060	.2986	.2906	.2178	-.0218
7594	-1.64	.0591	.0579	.0912	.2283	.2873	.3222	.3343	.3340	.3175	.2959	.0776
7595	2.38	-.0697	-.0619	.0060	.2045	.2531	.2766	.2882	.2926	.2867	.0438	-.2201
7596	3.76	-.1590	-.1008	-.0339	.1823	.2297	.2546	.2654	.2724	.2785	-.0853	-.3615
7597	6.53	-.2747	-.2023	-.0970	.0468	.0774	.1062	.1281	.1539	.1950	-.3986	-.6607
7598	8.95	-.3731	-.2773	-.1451	-.2446	-.2532	-.1962	-.1791	-.1388	-.0561	-.4054	-.8711
7599	11.23	-.4305	-.3771	-.2250	-.6838	-.6890	-.6696	-.6230	-.5278	-.5188	-.1084	-1.0754
7600	13.57	-.6013	-.5054	-.3425	-1.1097	-1.1712	-1.1824	-1.1085	-1.0684	-.9820	.1116	-1.2227
7601	16.10	-.7424	-.7373	-.5428	-1.4941	-1.6550	-1.6613	-1.6165	-1.6281	-1.5594	.0046	-1.3342
7602	18.52	-.9106	-.9308	-.7396	-1.6234	-1.8613	-1.8494	-1.8128	-1.8770	-1.9468	-.8422	-1.2961
7603	20.75	-1.5324	-1.3908	-.6833	-1.6149	-1.9739	-1.9375	-1.9937	-1.9731	-2.0845	-2.2673	-1.3672
7604	23.02	-2.7709	-1.9408	-.8861	-1.5878	-1.8240	-1.8720	-1.8616	-1.8853	-2.0384	-2.5365	-1.9775
7605	25.58	-3.8108	-2.7842	-1.0794	-1.5952	-1.8790	-1.9167	-1.9218	-1.9512	-2.0896	-2.1765	-2.2321
7606	27.06	-4.0738	-3.2295	-1.3610	-1.5993	-1.9532	-1.9670	-1.9786	-2.0096	-2.1234	-2.1904	-2.2490
7607	-.16	.0038	.0216	.0562	.2205	.2719	.3036	.3162	.3150	.3143	.2421	-.0155

TEST 63 RUN 22

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7593	-.18	-.0269	-.0133	-.0173	-.0178	.1763	.2059	.2193	.2222	.2205	.2248	.0751
7594	-1.64	.0386	.0461	.0102	.0035	.1665	.2058	.2303	.2419	.2473	.2511	.1878
7595	2.38	-.1959	-.1589	-.1420	-.1224	.1488	.1925	.2081	.2168	.2172	.2280	-.1363
7596	3.76	-.2954	-.2414	-.1857	-.1623	.1480	.1699	.1832	.1912	.1899	.2075	-.2391
7597	6.53	-.5277	-.3823	-.2874	-.2634	.0150	.0414	.0510	.0629	.0682	.0836	-.4250
7598	8.95	-.6830	-.5073	-.3887	-.3418	-.2594	-.2760	-.2698	-.2447	-.2576	-.3294	-.4288
7599	11.23	-.8569	-.6696	-.4890	-.4113	-.6784	-.7058	-.6918	-.6792	-.6867	-.8182	-.5113
7600	13.57	-.9976	-.7886	-.5665	-.4723	-1.1347	-1.2183	-1.2313	-1.2511	-1.2145	-1.3466	-.7097
7601	16.10	-1.1237	-.8447	-.6649	-.6117	-1.3410	-1.5353	-1.6684	-1.7146	-1.7288	-1.7117	-1.4086
7602	18.52	-1.1433	-.9671	-.8378	-.7592	-1.3496	-1.5809	-1.7228	-1.8962	-1.9636	-1.9809	-1.8666
7603	20.75	-1.2472	-1.1080	-1.1025	-1.1409	-1.4262	-1.5812	-1.6564	-1.6961	-1.7745	-1.8477	-2.2807
7604	23.02	-1.7726	-1.5354	-1.6626	-1.8397	-1.6674	-1.5885	-1.6724	-1.7613	-1.8713	-1.9029	-1.9041
7605	25.58	-2.0791	-2.0277	-2.1002	-2.4064	-1.7483	-1.5023	-1.6351	-1.7867	-1.8888	-2.0071	-2.0622
7606	27.06	-2.2016	-2.1525	-2.1133	-2.3530	-1.7127	-1.4261	-1.5753	-1.6644	-1.7707	-1.9353	-1.9574
7607	-.16	-.0220	-.0133	-.0293	-.0409	.0800	.2009	.2165	.2290	.2359	.2402	.0920

TEST 63 RUN 22

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7593	-.18	-.0682	-.0626	-.0838	-.0623	-.0777	-.0697	.1843	.2052	.2035	.2071	.2045
7594	-1.64	.0351	.0091	-.0333	-.0280	-.0490	-.0479	.1828	.2112	.2149	.2230	.2205
7595	2.38	-.3015	-.2425	-.2579	-.1926	-.1871	-.1492	.1713	.1968	.2022	.2056	.2034
7596	3.76	-.4330	-.3592	-.3381	-.2464	-.2387	-.1837	.1623	.1876	.1899	.1961	.1957
7597	6.53	-.7411	-.5524	-.5265	-.3791	-.3486	-.2607	.0259	.0408	.0418	.0415	.0427
7598	8.95	-1.0113	-.7462	-.7057	-.5157	-.4434	-.3362	-.2688	-.2763	-.2903	-.2757	-.2831
7599	11.23	-1.1769	-.9181	-.8435	-.6233	-.5394	-.4399	-.6464	-.6992	-.7195	-.7226	-.7336
7600	13.57	-1.3131	-1.0521	-.9625	-.7346	-.6681	-.5908	-.9514	-1.0534	-1.1259	-1.2468	-1.2705
7601	16.10	-1.4162	-1.2250	-1.1901	-1.0712	-1.0780	-.9463	-1.2349	-1.3240	-1.3239	-1.3636	-1.3980
7602	18.52	-1.5196	-1.3788	-1.4345	-1.4617	-1.5119	-1.4045	-1.2135	-1.3996	-1.4309	-1.4602	-1.4857
7603	20.75	-1.6032	-1.5599	-1.6378	-1.6737	-1.6665	-1.7445	-1.0641	-1.3253	-1.4146	-1.4140	-1.4717
7604	23.02	-1.7926	-1.7117	-1.7240	-1.6750	-1.7461	-2.5956	-.8709	-1.0890	-1.2477	-1.3393	-1.3624
7605	25.58	-1.8792	-1.7416	-1.7471	-1.7662	-1.8366	-2.1415	-1.0195	-1.1274	-1.1590	-1.2069	-1.2642
7606	27.06	-1.8631	-1.7660	-1.8610	-1.8378	-1.9890	-2.0297	-1.0253	-1.1137	-1.1524	-1.1814	-1.2370
7607	-.16	-.0644	-.0719	-.1043	-.0867	-.1042	-.0911	.1712	.1950	.2009	.2042	.2076

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 22

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7593	-.18	.2261	.2048	-.0739	-.0967	-.1125	-.1328	-.1523	-.1250	-.0941	-.0671	-.0733
7594	-1.64	.2214	.2466	.0187	-.0157	-.0242	-.0503	-.0657	-.0615	-.0603	-.0474	-.0725
7595	2.38	.1949	.0072	-.3247	-.2948	-.2732	-.2272	-.2145	-.1564	-.0914	-.0728	-.0940
7596	3.76	.1881	-.1446	-.4771	-.4041	-.3490	-.2942	-.2687	-.1937	-.1111	-.0898	-.1037
7597	6.53	.0372	-.3107	-.8187	-.6406	-.5418	-.4315	-.3747	-.2638	-.1323	-.1088	-.1213
7598	8.95	-.3116	-.1902	-1.0848	-.8470	-.7263	-.5676	-.4808	-.3395	-.1596	-.1241	-.1291
7599	11.23	-.7815	-.3444	-1.2719	-1.0089	-.8473	-.6741	-.5740	-.4542	-.2036	-.1533	-.1560
7600	13.57	-1.2797	-.7245	-1.3782	-1.1258	-.9922	-.8550	-.7980	-.6199	-.2570	-.1894	-.1734
7601	16.10	-1.4356	-1.4135	-1.3904	-1.3041	-1.2904	-1.2831	-1.2676	-1.0992	-.2264	-.1484	-.1498
7602	18.52	-1.4728	-1.4866	-1.3964	-1.3412	-1.3332	-1.3710	-1.4667	-1.6995	-.3684	-.2308	-.1965
7603	20.75	-1.5080	-1.4904	-1.4165	-1.3587	-1.3420	-1.3461	-1.3939	-1.6910	-.6428	-.4277	-.3373
7604	23.02	-1.4124	-1.4484	-1.3556	-1.3054	-1.3048	-1.3742	-1.3344	-1.6557	-.8446	-.7094	-.6522
7605	25.58	-1.2960	-1.2979	-1.3064	-1.3535	-1.3606	-1.3358	-1.3602	-1.4398	-.9281	-.8150	-.7677
7606	27.06	-1.3023	-1.3056	-1.3387	-1.3638	-1.3744	-1.3799	-1.4132	-1.4388	-.9841	-.8814	-.8338
7607	-.16	.2062	.1750	-.1032	-.1154	-.1081	-.1056	-.1081	-.0797	-.0576	-.0464	-.0706

TEST 63 RUN 22

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7593	-.18	-.0660	-.0779	-.2379	.1735	.1927	.1723	.1657	.1704	.1788	.0831	-.1078
7594	-1.64	-.0823	-.1028	-.2689	.1625	.1959	.1844	.1875	.1946	.1990	.1831	-.0060
7595	2.38	-.0976	-.1140	-.2625	.1585	.1804	.1717	.1756	.1847	.1893	-.1518	-.3357
7596	3.76	-.1005	-.1145	-.2550	.1515	.1723	.1615	.1665	.1729	.1863	-.3196	-.4937
7597	6.53	-.1178	-.1255	-.2423	.0301	.0258	.0253	.0151	.0187	.0258	-.6109	-.8739
7598	8.95	-.1216	-.1247	-.2322	-.0671	-.3040	-.2971	-.3102	-.3218	-.3113	-.7543	-1.1473
7599	11.23	-.1417	-.1359	-.2857	-.4825	-.4810	-.6420	-.8136	-.8927	-.8869	-.6191	-1.2951
7600	13.57	-.1559	-.1382	-.2689	-1.0321	-.9288	-.9677	-1.0079	-1.0684	-1.1335	-.9854	-1.2386
7601	16.10	-.1402	-.1354	-.3088	-1.3336	-1.1937	-1.2323	-1.2618	-1.3156	-1.3631	-1.4033	-1.0515
7602	18.52	-.1668	-.1731	-.3319	-1.2329	-1.1226	-1.1650	-1.2313	-1.2793	-1.3393	-1.3773	-1.2508
7603	20.75	-.3195	-.3223	-.6297	-.9749	-.9651	-1.0279	-1.1162	-1.1566	-1.1767	-1.2122	-1.1524
7604	23.02	-.5889	-.5055	-.6269	-.8231	-.7618	-.8247	-.8533	-.8916	-.9981	-.9966	-.9515
7605	25.58	-.7223	-.6279	-.7412	-1.0082	-.9367	-1.0153	-1.0240	-1.0776	-1.1059	-1.1121	-1.0864
7606	27.06	-.7727	-.6839	-.8027	-1.0516	-.9631	-1.0440	-1.0620	-1.0876	-1.1309	-1.1599	-1.1501
7607	-.16	-.0798	-.1064	-.2740	.1562	.1853	.1767	.1844	.1884	.2019	.1057	-.1021

TEST 63 RUN 22

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7593	-.18	-.1349	-.1174	-.0962	-.1010	-.0916	-.0861	-.0993	-.2401	-.1296	.0855	.1504
7594	-1.64	-.0637	-.0688	-.0711	-.0751	-.0730	-.0763	-.0817	-.2048	-.1015	.1092	.1612
7595	2.38	-.3371	-.2770	-.2319	-.2114	-.1663	-.1032	-.1024	-.2202	-.0906	.1072	.1568
7596	3.76	-.4575	-.3714	-.3039	-.2714	-.2054	-.1109	-.1079	-.2135	-.0806	.1102	.1533
7597	6.53	-.7346	-.5799	-.4575	-.3881	-.2681	-.1207	-.1114	-.1837	-.0876	.0372	.0578
7598	8.95	-.9347	-.7460	-.5803	-.4835	-.3351	-.1532	-.1339	-.1921	-.1530	-.0649	-.1136
7599	11.23	-1.0448	-.8333	-.6777	-.5848	-.4637	-.2210	-.1821	-.2415	-.4049	-.4336	-.4986
7600	13.57	-1.0662	-.9952	-.9304	-.8897	-.8949	-.2470	-.1956	-.2603	-.4988	-.8397	-.8863
7601	16.10	-.9792	-.9423	-.9252	-.9230	-1.0696	-.4895	-.3777	-.4375	-.8395	-1.0892	-1.1683
7602	18.52	-1.1928	-1.1490	-1.1335	-1.1233	-1.3203	-.6346	-.5087	-.5245	-.9932	-1.0104	-1.0205
7603	20.75	-1.1162	-1.0808	-1.0525	-1.0424	-1.0526	-.6342	-.6056	-.6701	-.6323	-.6869	-.7997
7604	23.02	-.9090	-.9439	-.9243	-.8973	-1.0462	-.7023	-.6485	-.6553	-.6740	-.7268	-.7531
7605	25.58	-1.1026	-1.1240	-1.1025	-1.1022	-1.0979	-.8193	-.7623	-.7719	-.8137	-.8365	-.8822
7606	27.06	-1.1906	-1.1497	-1.1303	-1.1178	-1.1038	-.8183	-.7822	-.7641	-.8029	-.8293	-.8801
7607	-.16	-.1392	-.1298	-.1177	-.1229	-.1106	-.0921	-.0987	-.2245	-.1127	.1030	.1588

TEST 63 RUN 22

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7593	-.18	.1839	.2039	.2151	.1847	-.0888	-.1269	-.1363	-.1534	-.1570	-.1210
7594	-1.64	.1894	.1981	.2069	.2162	.0003	-.0526	-.0685	-.0772	-.0957	-.0781
7595	2.38	.1840	.1950	.1950	.0292	-.3533	-.3361	-.2905	-.2500	-.2344	-.1557
7596	3.76	.1800	.1830	.1917	-.0697	-.5204	-.4574	-.3912	-.3074	-.2919	-.1827
7597	6.53	.0723	.0386	.1243	-.2430	-.9345	-.7567	-.5777	-.4574	-.3930	-.2368
7598	8.95	-.2400	-.3804	-.2144	-.0532	-1.2045	-.9745	-.7456	-.5535	-.4630	-.2722
7599	11.23	-.5894	-.6525	-.6548	-.4463	-1.3914	-1.0696	-.8167	-.6562	-.5673	-.4401
7600	13.57	-1.0826	-1.1322	-1.0976	-.9353	-1.0293	-.8528	-.7474	-.6474	-.5929	-.4842
7601	16.10	-1.2350	-1.2282	-1.2714	-1.1394	-.8274	-.7511	-.6915	-.6611	-.6252	-.5556
7602	18.52	-1.0762	-1.1008	-1.1152	-1.1608	-.9006	-.8173	-.7647	-.7165	-.6946	-.6227
7603	20.75	-.8157	-.8623	-.9553	-1.0178	-.8705	-.7705	-.6289	-.6296	-.6136	-.5276
7604	23.02	-.7602	-.7930	-.7984	-.7917	-.7916	-.7803	-.8128	-.8188	-.8241	-.8218
7605	25.58	-.9557	-.9982	-1.0193	-1.0211	-.9481	-.9253	-.9022	-.9105	-.8804	-.8378
7606	27.06	-.9538	-1.0051	-1.0185	-1.0448	-.9902	-.9691	-.9353	-.9260	-.9103	-.8497
7607	-.16	.1917	.1985	.2053	.1708	-.1174	-.1551	-.1549	-.1526	-.1634	-.1242

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 24

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7643	.160	1805.6	-.18	-.0788	.0205	.0222	-.0789	.0202	.0009	-3.85	.612
7644	.161	1818.6	-1.66	-.1431	.0260	.0301	-.1438	.0219	.0006	-5.50	.564
7645	.161	1826.8	2.37	.0212	.0178	.0123	.0219	.0169	.0009	1.19	.048
7646	.161	1823.9	4.06	.0829	.0192	.0067	.0841	.0132	.0010	4.33	.371
7647	.161	1825.0	6.47	.1659	.0243	.0001	.1676	.0055	.0010	6.82	.423
7648	.160	1814.4	9.01	.2567	.0349	-.0080	.2590	-.0057	.0011	7.35	.445
7649	.160	1808.4	11.30	.3498	.0519	-.0214	.3531	-.0176	.0011	6.74	.464
7650	.172	2085.3	13.67	.3987	.0684	-.0308	.3939	-.0254	.0016	5.68	.476
7651	.160	1797.0	16.02	.5511	.1156	-.0482	.5617	-.0409	.0017	4.77	.481
7652	.160	1803.6	18.46	.6619	.1675	-.0625	.6809	-.0507	.0040	3.95	.485
7653	.159	1786.3	20.69	.7481	.2254	-.0711	.7795	-.0535	.0005	3.32	.485
7654	.160	1808.4	23.32	.9607	.3052	-.0847	.9112	-.0604	-.0010	2.82	.486
7655	.159	1785.5	25.56	.9433	.3798	-.0944	1.0149	-.0643	-.0018	2.48	.486
7656	.160	1795.2	27.28	.9903	.4391	-.0997	1.0814	-.0636	-.0012	2.26	.485
7657	.160	1814.9	-.15	-.0792	.0202	.0229	-.0793	.0200	.0009	-3.93	.616

0.76cm projection.

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 24

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7643	-.18	.3121	.0556	.0171	.0131	.0094	.0912	.0866	.2895	.1006	.0016	-.0024
7644	-1.66	.1339	-.0074	-.0726	-.0686	-.0976	-.0259	-.0299	.2884	.2016	.1047	.0871
7645	2.37	.0075	.1574	.1156	.1182	.1285	.2337	.2359	.2082	-.0947	-.1610	-.1334
7646	4.06	.0532	.2054	.1940	.1942	.2039	.2956	.2942	.0169	-.2441	-.2515	-.2169
7647	6.47	.0244	.3012	.2759	.2800	.2947	.3171	.3174	-.4357	-.5522	-.4501	-.3852
7648	9.01	.0384	.3341	.3624	.3653	.3778	.2852	.2840	-1.1041	-.9270	-.6853	-.5357
7649	11.30	.0197	.3809	.4281	.4341	.4345	.2161	.1916	-1.8613	-1.3250	-.8916	-.6937
7650	13.67	.0114	.3674	.4230	.4282	.4101	.0733	.0540	-2.2805	-1.3771	-.9877	-.7752
7651	16.02	.0079	.4765	.5457	.5495	.5107	-.0194	-.0851	-3.4325	-1.9482	-1.5251	-1.2466
7652	18.46	.0012	.4427	.5813	.5976	.5275	-.0866	-.1944	-3.4182	-2.5286	-2.1473	-1.8477
7653	20.69	.0016	.4874	.6220	.6320	.5308	-.0193	-.2934	-2.3191	-2.2389	-2.1362	-2.0169
7654	23.32	-.0088	.4532	.6457	.6672	.5281	-.2140	-.4089	-2.0820	-2.0606	-1.9931	-1.9719
7655	25.56	-.0064	.5254	.6872	.6953	.5155	-.2099	-.5689	-2.1983	-2.1854	-2.1202	-2.0780
7656	27.28	.0122	.4575	.7065	.7099	.4990	-.4324	-.7112	-2.3153	-2.2931	-2.2512	-2.1853
7657	-.15	.0178	.0974	-.0079	-.0006	.0008	.0975	.1176	.3233	.1264	.0165	-.0132

TEST 63 RUN 24

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7643	-.18	-.0131	.0131	.0671	.2487	.2887	.3233	.3368	.3269	.3131	.2490	-.0178
7644	-1.66	.0587	.0704	.0998	.2576	.3007	.3313	.3419	.3338	.3148	.2929	.0813
7645	2.37	-.1139	-.0741	-.0066	.2192	.2564	.2965	.3098	.3132	.3099	.1083	-.2076
7646	4.06	-.1809	-.1297	-.0409	.1869	.2245	.2587	.2762	.2713	.2846	-.0118	-.3701
7647	6.47	-.3247	-.2168	-.0962	.0670	.1105	.1436	.1704	.1487	.1789	-.1320	-.5849
7648	9.01	-.4664	-.3219	-.1696	-.2557	-.1942	-.1766	-.1147	-.1076	-.2751	.0339	-.7877
7649	11.30	-.6186	-.4062	-.2041	-.6392	-.5826	-.5376	-.5169	-.5666	-.9737	.2713	-1.0025
7650	13.67	-.7293	-.4863	-.2459	-.9786	-.9318	-.8855	-.8418	-.9301	-1.3268	.2587	-1.0590
7651	16.02	-1.1357	-.8004	-.4548	-1.4869	-1.5389	-1.5184	-1.5001	-1.5870	-1.9488	-.0515	-1.4239
7652	18.46	-1.4568	-1.1684	-.6870	-1.7970	-1.8979	-1.9010	-2.0239	-2.1022	-2.3475	-1.0426	-1.5863
7653	20.69	-1.6610	-1.3625	-.8231	-1.9903	-2.1341	-2.1735	-2.3434	-2.5821	-2.7647	-2.0462	-1.7745
7654	23.32	-1.8021	-1.5773	-1.0322	-2.2688	-2.3963	-2.3839	-2.5974	-2.9508	-3.0951	-3.0356	-2.2785
7655	25.56	-1.9289	-1.7126	-1.1492	-2.4317	-2.6597	-2.6689	-2.8480	-3.2608	-3.4704	-3.6255	-2.9055
7656	27.28	-2.0770	-1.8878	-1.3412	-2.3551	-2.7661	-2.8033	-2.8299	-3.3060	-3.5514	-3.7464	-3.2703
7657	-.15	-.0372	-.0145	.0424	.2341	.2829	.3244	.3468	.3395	.3286	.2484	-.0313

TEST 63 RUN 24

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7643	-.18	-.0398	-.0303	-.0356	-.0403	.0144	.2303	.2399	.2462	.2460	.2462	.0942
7644	-1.66	.0387	.0415	.0149	.0015	.0003	.2243	.2389	.2464	.2478	.2497	.1868
7645	2.37	-.1895	-.1507	-.1349	-.1150	-.0651	.2061	.2220	.2297	.2267	.2351	-.1093
7646	4.06	-.3025	-.2456	-.1862	-.1642	-.1026	.1721	.1847	.1928	.1828	.1799	-.2661
7647	6.47	-.4825	-.3790	-.2705	-.2497	-.1654	.0343	.0585	.0674	.0667	.0676	-.4186
7648	9.01	-.6515	-.5132	-.3711	-.3302	-.2219	-.2956	-.2893	-.2779	-.2819	-.4912	-.3459
7649	11.30	-.8213	-.6219	-.4755	-.3984	-.2871	-.6921	-.6942	-.6916	-.7329	-.9503	-.4509
7650	13.67	-.8729	-.6689	-.5026	-.4212	-.3316	-.9975	-1.0394	-1.0174	-1.0522	-1.2503	-.5882
7651	16.02	-1.1984	-.9312	-.7224	-.6208	-.4722	-1.4493	-1.5902	-1.5998	-1.5961	-1.7396	-1.4884
7652	18.46	-1.3553	-1.1118	-.8998	-.7801	-.4693	-1.5558	-1.9197	-1.9812	-1.9216	-1.9656	-1.9663
7653	20.69	-1.5698	-1.3100	-1.0556	-.8401	-.4819	-1.7079	-1.9390	-2.1244	-2.4328	-2.4410	-2.2761
7654	23.32	-1.9608	-1.6233	-1.1667	-.8404	-.6380	-1.9179	-2.4006	-2.4866	-2.5236	-2.5736	-2.5685
7655	25.56	-2.5275	-2.0021	-1.2891	-.9473	-.7378	-1.7154	-2.4208	-2.6402	-2.7806	-2.8246	-2.9505
7656	27.28	-2.9088	-2.3753	-1.6027	-1.0583	-.8938	-1.6548	-2.0458	-2.3582	-2.5671	-2.8252	-2.8929
7657	-.15	-.0612	-.0435	-.0458	-.0401	-.0059	.2192	.2490	.2568	.2510	.2470	.0899

TEST 63 RUN 24

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7643	-.18	-.0719	-.0841	-.1187	-.0882	-.1026	-.0864	.1745	.1838	.1943	.2070	.2128
7644	-1.66	.0366	.0019	-.0376	-.0304	-.0510	-.0543	.1679	.1749	.1859	.2048	.2090
7645	2.37	-.2955	-.2347	-.2573	-.1939	-.1922	-.1438	.1682	.1744	.1856	.1963	.2018
7646	4.06	-.4760	-.3823	-.3680	-.2694	-.2572	-.1963	.1415	.1548	.1590	.1758	.1794
7647	6.47	-.7514	-.5560	-.5380	-.3893	-.3455	-.2526	.0151	.0230	.0238	.0326	.0384
7648	9.01	-.9957	-.7502	-.7006	-.5043	-.4305	-.3298	-.3180	-.3073	-.3373	-.3245	-.3124
7649	11.30	-1.2081	-.9297	-.8498	-.6291	-.5445	-.4412	-.7350	-.7437	-.7512	-.7743	-.7767
7650	13.67	-1.1882	-.9436	-.8698	-.6994	-.6329	-.5227	-.9037	-1.0183	-1.0792	-1.1106	-1.0917
7651	16.02	-1.4915	-1.3503	-1.3399	-1.2469	-1.1137	-.6740	-1.2538	-1.3488	-1.4012	-1.4823	-1.5518
7652	18.46	-1.9159	-1.9566	-2.0803	-1.9843	-1.6895	-.7719	-1.3560	-1.5450	-1.5615	-1.5771	-1.5912
7653	20.69	-2.0192	-1.9758	-2.0845	-2.4144	-2.2344	-1.0356	-1.3964	-1.6763	-1.8123	-1.8794	-1.9226
7654	23.32	-2.2101	-2.2110	-2.4407	-2.9669	-2.6672	-1.0172	-1.1061	-1.4165	-1.6172	-1.7509	-1.8761
7655	25.56	-2.7401	-2.8794	-3.4000	-3.6171	-2.8272	-1.3053	-1.1961	-1.3114	-1.3608	-1.4092	-1.5171
7656	27.28	-2.9539	-3.2514	-3.6242	-3.2585	-2.4765	-1.6631	-1.1965	-1.3431	-1.3981	-1.4302	-1.4611
7657	-.15	-.0894	-.0965	-.1268	-.0912	-.0968	-.0699	.1822	.1898	.1958	.2071	.2078

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 24

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7643	-.18	.2061	.1828	-.0921	-.0939	-.1002	-.1213	-.1324	-.1094	-.0875	-.0722	-.0937
7644	-1.66	.2140	.2344	.0058	-.0189	-.0307	-.0595	-.0672	-.0517	-.0496	-.0351	-.0603
7645	2.37	.1785	.0016	-.3320	-.2963	-.2740	-.2363	-.2225	-.1627	-.0993	-.0818	-.1002
7646	4.06	.1741	-.1686	-.5207	-.4325	-.3641	-.3080	-.2737	-.1930	-.0998	-.0796	-.1002
7647	6.47	.0224	-.2882	-.8265	-.6465	-.5465	-.4461	-.3873	-.2699	-.1349	-.1108	-.1173
7648	9.01	-.3775	-.2887	-1.0825	-.8584	-.7228	-.5676	-.4871	-.3526	-.1709	-.1331	-.1377
7649	11.30	-.8498	-.3775	-1.2911	-1.0381	-.8734	-.6875	-.6118	-.4926	-.1906	-.1440	-.1474
7650	13.67	-1.1112	-.9187	-1.1533	-.9627	-.8849	-.8486	-.8525	-.7397	-.1355	-.1063	-.1188
7651	16.02	-1.6297	-1.3442	-1.3038	-1.1829	-1.1672	-1.1423	-1.2086	-1.3164	-.1582	-.1214	-.1395
7652	18.46	-1.6332	-1.6362	-1.6408	-1.5873	-1.5760	-1.5837	-1.7423	-1.7335	-.1964	-.1650	-.2001
7653	20.69	-1.9673	-1.9580	-1.8126	-1.6576	-1.6697	-1.6850	-1.9343	-1.9963	-.4915	-.3981	-.3927
7654	23.32	-1.9460	-2.0415	-1.9275	-1.8838	-1.8384	-1.9004	-2.3703	-1.6278	-.7058	-.5943	-.5577
7655	25.56	-1.6744	-1.7565	-1.8719	-1.9037	-1.9197	-1.9930	-1.9667	-1.6039	-.9095	-.7765	-.7065
7656	27.28	-1.4756	-1.6110	-1.6505	-1.6225	-1.6690	-1.6557	-1.6897	-1.5143	-.9178	-.8354	-.7866
7657	-.15	.1867	.1443	-.1344	-.1251	-.1015	-.0925	-.0853	-.0662	-.0568	-.0599	-.0990

TEST 63 RUN 24

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7643	-.18	-.0887	-.1030	-.2586	.1852	.2034	.1905	.1911	.1904	.1910	.1000	-.1168
7644	-1.66	-.0689	-.0920	-.2622	.1874	.2051	.1911	.1909	.1928	.2000	.1817	-.0041
7645	2.37	-.0999	-.1188	-.2673	.1706	.1855	.1769	.1768	.1820	.1890	-.1478	-.3430
7646	4.06	-.1002	-.1149	-.2520	.1556	.1656	.1494	.1513	.1535	.1768	-.3647	-.5447
7647	6.47	-.1140	-.1195	-.2262	.0389	.0214	.0106	.0192	.0142	.0241	-.5812	-.8624
7648	9.01	-.1297	-.1318	-.2500	-.0406	-.4093	-.3999	-.3359	-.3362	-.3505	-.7511	-1.1639
7649	11.30	-.1386	-.1363	-.2924	-.3065	-.6163	-.8595	-.8246	-.8260	-.8098	-.8212	-1.2814
7650	13.67	-.1099	-.1186	-.2379	-.8615	-.8225	-.8710	-.8905	-.9716	-1.0492	-.6507	-1.0019
7651	16.02	-.1324	-.1456	-.3079	-1.2874	-1.2285	-1.2481	-1.2773	-1.3300	-1.3611	-1.3377	-1.1653
7652	18.46	-.2177	-.2355	-.4163	-1.2831	-1.2704	-1.3371	-1.3756	-1.4108	-1.4918	-1.5461	-1.3466
7653	20.69	-.3451	-.3001	-.3797	-1.0303	-1.1364	-1.3178	-1.3858	-1.3828	-1.4958	-1.5584	-1.3651
7654	23.32	-.5206	-.4265	-.4937	-1.0557	-1.0136	-1.0638	-1.0702	-1.1057	-1.2023	-1.2408	-1.3218
7655	25.56	-.6574	-.5644	-.6061	-1.0783	-1.1041	-1.2035	-1.2454	-1.2913	-1.3627	-1.3562	-1.3398
7656	27.28	-.7537	-.6664	-.7224	-.9557	-1.0507	-1.2092	-1.2288	-1.2739	-1.3584	-1.3657	-1.3252
7657	-.15	-.1166	-.1359	-.2928	.1720	.2032	.2031	.2068	.2062	.2078	.1026	-.1279

TEST 63 RUN 24

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7643	-.18	-.1621	-.1468	-.1221	-.1236	-.1042	-.0779	-.0817	-.2138	-.0197	.1385	.1751
7644	-1.66	-.0674	-.0697	-.0707	-.0756	-.0794	-.0781	-.0867	-.2142	-.0266	.1413	.1770
7645	2.37	-.3417	-.2812	-.2375	-.2121	-.1621	-.0904	-.0924	-.2125	.0146	.1522	.1848
7646	4.06	-.4960	-.3974	-.3215	-.2770	-.2085	-.1050	-.1068	-.2155	.0241	.1357	.1641
7647	6.47	-.7315	-.5773	-.4546	-.3852	-.2686	-.1154	-.1089	-.1831	.0012	.0717	.0727
7648	9.01	-.9603	-.7553	-.5895	-.4862	-.3418	-.1608	-.1451	-.2011	-.1789	-.0872	-.0509
7649	11.30	-1.0051	-.8381	-.6927	-.6237	-.5587	-.1845	-.1513	-.2265	-.3297	-.3997	-.4618
7650	13.67	-.8543	-.7924	-.7598	-.7078	-.7562	-.1823	-.1309	-.2338	-.4683	-.7371	-.7911
7651	16.02	-1.1010	-1.0621	-1.0496	-1.0349	-1.2742	-.3658	-.2898	-.4120	-.8337	-1.1555	-1.1999
7652	18.46	-1.2694	-1.2211	-1.2087	-1.1841	-1.4743	-.5443	-.4693	-.5546	-.8714	-1.0613	-1.1220
7653	20.69	-1.2605	-1.2759	-1.2086	-1.1648	-1.3464	-.6154	-.5272	-.5534	-.7486	-.8728	-.9029
7654	23.32	-1.3463	-1.3709	-1.3893	-1.3525	-1.2991	-.7524	-.6731	-.6281	-.7758	-.9654	-1.0158
7655	25.56	-1.3245	-1.3070	-1.2627	-1.2614	-1.2471	-.7848	-.7148	-.6787	-.6539	-.8460	-.9176
7656	27.28	-1.2760	-1.2610	-1.2060	-1.1496	-1.1171	-.7776	-.7482	-.7282	-.5974	-.7479	-.8010
7657	-.15	-.1837	-.1594	-.1327	-.1219	-.0952	-.0670	-.0706	-.1972	-.0121	.1430	.1694

TEST 63 RUN 24

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7643	-.18	.1931	.1968	.1990	.1670	-.1206	-.1443	-.1413	-.1379	-.1436	-.1018
7644	-1.66	.2012	.2027	.2091	.2175	-.0054	-.0632	-.0745	-.0908	-.1054	-.0897
7645	2.37	.2002	.2079	.2025	.0348	-.3612	-.3325	-.2924	-.2434	-.2277	-.1476
7646	4.06	.1746	.1748	.1919	-.0929	-.5885	-.5024	-.4293	-.3313	-.3096	-.1928
7647	6.47	.0670	.0508	.1243	-.2248	-.9250	-.7420	-.5725	-.4588	-.3951	-.2387
7648	9.01	-.1998	-.4467	-.2273	.0340	-1.2011	-.9862	-.7525	-.5552	-.4658	-.2664
7649	11.30	-.5569	-.6592	-.7069	-.2994	-1.4125	-1.0586	-.7975	-.6264	-.5394	-.4331
7650	13.67	-.9362	-.9834	-.9536	-.8210	-.8537	-.7272	-.6248	-.5678	-.5338	-.4359
7651	16.02	-1.2942	-1.3284	-1.3603	-1.2379	-.8705	-.7751	-.7216	-.6774	-.6543	-.5686
7652	18.46	-1.2071	-1.2175	-1.2581	-1.3066	-.9504	-.8410	-.7729	-.7067	-.6594	-.6093
7653	20.69	-.9159	-1.0035	-1.0423	-1.0687	-.9392	-.8413	-.8290	-.8299	-.8625	-.8894
7654	23.32	-1.0984	-1.0979	-1.1178	-1.1411	-1.1437	-1.1121	-1.0487	-.9996	-.9541	-.8783
7655	25.56	-1.0149	-1.0734	-1.1682	-1.2082	-1.0949	-1.0616	-1.0117	-.9667	-.9215	-.8307
7656	27.28	-.6804	-.9401	-1.0087	-1.0196	-.9563	-.9323	-.9104	-.8762	-.8335	-.7843
7657	-.15	.1849	.1874	.1942	.1666	-.1111	-.1292	-.1231	-.1509	-.1367	-.1069

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 25

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7671	.159	1780.6	-.13	-.0642	.0156	.0256	-.0643	.0154	.0010	-4.12	.689
7672	.160	1808.9	-1.62	-.1179	.0179	.0320	-.1184	.0146	.0009	-6.57	.605
7673	.160	1816.3	2.42	.0257	.0152	.0156	.0263	.0141	.0011	1.69	.029
7674	.160	1814.3	4.03	.0814	.0170	.0095	.0823	.0112	.0012	4.80	.347
7675	.160	1804.0	6.63	.1708	.0233	-.0002	.1723	.0034	.0014	7.34	.425
7676	.160	1798.1	8.73	.2435	.0317	-.0086	.2455	-.0056	.0014	7.68	.447
7677	.160	1799.3	11.22	.3376	.0485	-.0223	.3406	-.0181	.0014	6.96	.468
7678	.161	1818.6	13.67	.4353	.0763	-.0366	.4410	-.0287	.0014	5.70	.479
7679	.160	1801.3	16.01	.5435	.1194	-.0549	.5553	-.0351	.0017	4.55	.490
7680	.161	1820.3	18.40	.6616	.1782	-.0749	.6840	-.0398	.0004	3.71	.497
7681	.160	1796.0	20.70	.7691	.2466	-.0897	.8066	-.0412	-.0007	3.12	.498
7682	.160	1811.4	23.27	.8685	.3270	-.0998	.9270	-.0427	-.0004	2.66	.496
7683	.161	1839.1	25.65	.9708	.4132	-.1143	1.0540	-.0478	.0007	2.35	.496
7684	.161	1817.6	27.27	1.0216	.4701	-.1191	1.1235	-.0502	.0000	2.17	.495
7685	.161	1820.8	-.10	-.0635	.0149	.0257	-.0636	.0148	.0011	-4.26	.694

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST TP	63 ALPHA DEGREES	CP101	RUN 25 CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7671	-.13	-.0320	.0217	.0235	.0351	.0241	.1022	.0973	.2925	.0686	-.0310	-.0321
7672	-1.62	.0082	-.0297	-.0528	-.0650	-.0936	-.0363	-.0254	.2734	.1783	.0670	.0447
7673	2.42	.0128	.0776	.0785	.0814	.0868	.2071	.2125	.1998	-.1096	-.1603	-.1331
7674	4.03	.0165	.1153	.1270	.1290	.1401	.2519	.2628	.0213	-.2606	-.2586	-.2164
7675	6.63	.0354	.1852	.1998	.2045	.2263	.2938	.2946	-.4218	-.5409	-.4494	-.3593
7676	8.73	.0344	.2354	.2510	.2570	.2763	.2851	.2750	-.9330	-.8118	-.6380	-.4882
7677	11.22	.0600	.2985	.3104	.3168	.3339	.2040	.2047	-1.6336	-1.2347	-.8269	-.6452
7678	13.67	.0387	.3370	.3466	.3534	.3534	.1033	.0597	-2.5937	-1.5570	-1.1028	-.8409
7679	16.01	.1099	.3873	.3872	.3890	.3622	-.1225	-.1221	-3.3638	-1.9265	-1.3418	-1.0714
7680	18.40	.1037	.4228	.4220	.4173	.3668	-.2686	-.3368	-3.7958	-2.2010	-1.6259	-1.3746
7681	20.70	.1498	.4642	.4454	.4442	.3668	-.4489	-.4590	-3.4328	-2.9985	-3.0789	-2.6364
7682	23.27	.1383	.4980	.4671	.4675	.3604	-.5570	-.5811	-2.8634	-2.8724	-3.0468	-3.4166
7683	25.65	.1310	.5303	.4827	.4768	.3243	-.8300	-.8342	-3.1449	-3.2624	-3.4289	-4.0808
7684	27.27	.0849	.5464	.4954	.4840	.3000	-.9415	-.9838	-3.2506	-3.3750	-3.6169	-3.8481
7685	-.10	-.0083	-.0235	-.0172	.0076	.0089	.1164	.1169	.3076	.0877	-.0212	-.0384

TEST TP	63 ALPHA DEGREES	CP112	RUN 25 CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7671	-.13	-.0322	.0211	.0809	.0135	-.0188	-.0263	-.0334	-.0307	.0282	.2394	.0250
7672	-1.62	.0283	.0506	.0831	-.0451	-.0994	-.1041	-.1195	-.1258	-.0711	.2369	.1224
7673	2.42	-.1035	-.0721	-.0062	.0458	.0304	.0517	.0786	.1238	.1925	.1774	-.1703
7674	4.03	-.1641	-.1196	-.0447	.0871	.0798	.1034	.1384	.1851	.2438	-.0038	-.3446
7675	6.63	-.2790	-.1924	-.0998	.1530	.1522	.1858	.2213	.2563	.2642	-.4782	-.6797
7676	8.73	-.3760	-.2719	-.1592	.1901	.1999	.2272	.2598	.2777	.2285	-1.0237	-.9990
7677	11.22	-.4599	-.3499	-.2281	.2406	.2587	.2879	.3049	.2853	.1406	-1.7994	-1.3433
7678	13.67	-.6045	-.5007	-.3902	.2760	.3007	.3089	.3028	.2439	-.0115	-2.6959	-1.6647
7679	16.01	-.7701	-.6794	-.5641	.3140	.3409	.3415	.3129	.2113	-.1863	-3.3763	-2.6603
7680	18.40	-.9981	-.8774	-.7646	.3589	.3663	.3533	.2961	.1430	-.3688	-4.0110	-4.5645
7681	20.70	-1.6721	-1.2726	-.8218	.4064	.3949	.3676	.2668	.0630	-.5906	-4.0000	-4.0860
7682	23.27	-2.9814	-2.3267	-1.0829	.4514	.4324	.3821	.2473	.0088	-.6725	-3.1009	-3.4506
7683	25.65	-3.9125	-2.8759	-1.2672	.4847	.4599	.3879	.2255	-.0629	-.8158	-3.0316	-3.2826
7684	27.27	-4.6041	-3.3008	-1.4856	.5067	.4754	.3883	.2041	-.0995	-.8810	-2.8635	-3.0670
7685	-.10	-.0414	-.0072	.0486	-.0092	-.0268	-.0161	-.0159	.0019	.0548	.2568	.0162

TEST TP	63 ALPHA DEGREES	CP123	RUN 25 CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7671	-.13	-.0096	.0167	-.0003	-.0016	-.0115	-.0600	-.1118	-.1033	-.0890	.0113	.2082
7672	-1.62	.0637	.0595	.0339	.0164	.0067	-.1206	-.1814	-.1859	-.1840	-.1178	.1776
7673	2.42	-.1738	-.1380	-.1320	-.1207	-.0697	.0021	.0071	.0451	.0864	.1842	.0848
7674	4.03	-.2857	-.2418	-.2095	-.1761	-.1116	.0441	.0673	.1122	.1584	.2328	-.1701
7675	6.63	-.5422	-.3755	-.2855	-.2569	-.1845	.1191	.1510	.1975	.2327	.2247	-.7451
7676	8.73	-.6998	-.5120	-.3971	-.3400	-.2531	.1651	.2002	.2376	.2527	.1504	-1.4607
7677	11.22	-.9520	-.7192	-.5434	-.4681	-.3858	.2175	.2461	.2622	.2329	-.0143	-2.4423
7678	13.67	-1.1624	-.9007	-.7241	-.6906	-.4828	.2834	.2800	.2713	.1842	-.2333	-3.3933
7679	16.01	-1.6114	-.9252	-.7905	-.6809	-.6098	.3249	.3084	.2572	.1143	-.4843	-4.0904
7680	18.40	-2.7248	-1.4692	-.9108	-.8467	-.8106	.3524	.3278	.2503	.0449	-.7150	-4.4296
7681	20.70	-3.6744	-2.1745	-1.3152	-1.1635	-1.0384	.3854	.3480	.2439	.0065	-.7992	-3.4755
7682	23.27	-3.6538	-2.8800	-2.1044	-1.9754	-1.9186	.4173	.3672	.2504	-.0051	-.7679	-2.3310
7683	25.65	-3.3899	-2.8051	-2.5465	-2.4739	-2.5827	.4500	.3822	.2494	-.0309	-.7832	-1.9024
7684	27.27	-3.0849	-2.8103	-2.6074	-2.4909	-2.4965	.4369	.3740	.2301	-.0628	-.8415	-1.8320
7685	-.10	-.0308	-.0219	-.0340	-.0325	-.0283	-.0905	-.0872	-.0681	-.0534	.0361	.2220

TEST TP	63 ALPHA DEGREES	CP134	RUN 25 CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7671	-.13	.0238	-.0149	-.0621	-.0635	-.0731	-.0844	-.0804	-.1571	-.1914	-.2089	-.1699
7672	-1.62	.1191	.0578	-.0020	-.0154	-.0303	-.0379	-.0857	-.1870	-.2535	-.3035	-.3232
7673	2.42	-.2161	-.2049	-.2267	-.1885	-.1724	-.1462	.0163	-.0356	-.0067	.0391	.0826
7674	4.03	-.3897	-.3500	-.3403	-.2661	-.2362	-.1976	.0422	.0189	.0753	.1407	.1766
7675	6.63	-.7713	-.5804	-.5411	-.3760	-.3450	-.2679	.0908	.0886	.1863	.2690	.2749
7676	8.73	-1.1729	-.7654	-.7081	-.4991	-.4276	-.3345	.1165	.1370	.2669	.3418	.3117
7677	11.22	-1.4581	-1.0022	-.9238	-.6351	-.5494	-.4740	.1539	.1830	.3342	.4057	.3192
7678	13.67	-1.8679	-1.2896	-1.1467	-.8264	-.6954	-.5789	.1863	.2287	.3930	.4592	.3107
7679	16.01	-2.1272	-1.5542	-1.4198	-1.0857	-.9823	-.7542	.2146	.2707	.4424	.4917	.2882
7680	18.40	-2.6679	-2.2835	-1.8597	-1.3079	-1.0740	-.9669	.2451	.2986	.4816	.5170	.2782
7681	20.70	-3.3901	-3.3456	-2.9436	-1.8182	-1.5190	-1.3903	.2727	.3324	.5097	.5383	.2912
7682	23.27	-2.3181	-2.3833	-2.3183	-2.0009	-1.8478	-2.1284	.3019	.3517	.5342	.5643	.3145
7683	25.65	-1.8701	-1.8108	-1.7871	-1.6608	-1.5451	-1.9692	.3235	.3682	.5555	.5631	.2895
7684	27.27	-1.8356	-1.8084	-1.7935	-1.7273	-1.7070	-2.0299	.3398	.3899	.5705	.5634	.2517
7685	-.10	.0132	-.0375	-.0898	-.0810	-.0827	-.0732	-.0595	-.1209	-.1456	-.1476	-.1378

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 25

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7671	-.13	-.0627	.2687	.0333	-.0030	-.0298	-.0711	-.1040	-.0941	-.0902	-.0788	-.0954
7672	-1.62	-.2525	.2060	.1122	.0517	.0102	-.0368	-.0532	-.0415	-.0479	-.0397	-.0695
7673	2.42	.1636	.2112	-.2527	-.2533	-.2514	-.2256	-.2050	-.1478	-.0894	-.0738	-.0921
7674	4.03	.2220	.0214	-.4648	-.4149	-.3896	-.3108	-.2718	-.1901	-.1056	-.0898	-.1008
7675	6.63	.2258	-.6034	-.9053	-.6516	-.5631	-.4435	-.3781	-.2619	-.1288	-.1034	-.1163
7676	8.73	.1497	-1.2685	-1.1987	-.8949	-.7262	-.5525	-.4536	-.3121	-.1499	-.1245	-.1313
7677	11.22	-.0174	-2.1998	-1.5428	-1.1678	-.9483	-.6882	-.5600	-.3848	-.1813	-.1537	-.1499
7678	13.67	-.2449	-2.9674	-1.9762	-1.4838	-1.2709	-.9358	-.7082	-.4659	-.2851	-.2644	-.2587
7679	16.01	-.4211	-3.3540	-2.3307	-2.0916	-1.7762	-1.3444	-.9509	-.6645	-.5339	-.4796	-.4614
7680	18.40	-.5292	-3.3159	-2.6423	-2.4396	-1.9702	-1.4329	-1.1078	-.7543	-.7773	-.6932	-.6397
7681	20.70	-.4996	-1.9303	-1.9274	-1.8228	-1.6625	-1.2603	-1.0244	-.8233	-.8397	-.7250	-.6458
7682	23.27	-.4191	-1.3123	-1.2518	-1.1924	-1.1600	-1.0928	-.9462	-.6383	-.8640	-.7471	-.6939
7683	25.65	-.5144	-1.2490	-1.3070	-1.2911	-1.2758	-1.1513	-1.0641	-.9590	-.9610	-.8584	-.8108
7684	27.27	-.6195	-1.4484	-1.4779	-1.4090	-1.3637	-1.2046	-1.1146	-.9845	-1.0490	-.9564	-.8824
7685	-.10	-.0905	.2504	-.0003	-.0424	-.0518	-.0636	-.0786	-.0685	-.0667	-.0701	-.1030

TEST 63 RUN 25

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7671	-.13	-.0886	-.0919	-.2410	-.1060	-.1140	-.1404	-.1562	-.1475	-.0649	.2231	-.0041
7672	-1.62	-.0776	-.1049	-.2865	-.1804	-.1974	-.2189	-.2422	-.2593	-.1956	.1870	.1049
7673	2.42	-.0974	-.1155	-.2679	-.0730	-.0568	-.0474	-.0142	.0503	.1548	.1516	-.2300
7674	4.03	-.1017	-.1179	-.2564	-.0294	-.0017	.0166	.0660	.1386	.2229	-.1050	-.4329
7675	6.63	-.1085	-.1163	-.2596	.0452	.0839	.1239	.1854	.2466	.2591	-.7330	-.8574
7676	8.73	-.1216	-.1216	-.2129	.0747	.1415	.1943	.2651	.3065	.2382	-1.4204	-1.2881
7677	11.22	-.1360	-.1236	-.1745	.0880	.1279	.2174	.3700	.3981	.1861	-2.3853	-1.7175
7678	13.67	-.2473	-.2243	-.3119	.1360	.1575	.0067	.2734	.4945	.1557	-3.2861	-1.9779
7679	16.01	-.4312	-.3581	-.4524	.1825	.1928	.0808	-.2733	.3568	.2344	-3.8394	-1.9838
7680	18.40	-.5767	-.4580	-.5591	.2260	.2641	.1653	-.1533	-.4418	.0085	-4.1956	-2.1687
7681	20.70	-.5884	-.4954	-.6382	.2657	.2967	.2072	-.1158	-.6959	-.6372	-4.5439	-2.3172
7682	23.27	-.6105	-.5331	-.6429	.2967	.3110	.2148	-.1402	-.8354	-1.1036	-4.3592	-2.4458
7683	25.65	-.7483	-.6389	-.7483	.3255	.3212	.2056	-.1720	-.8872	-2.0844	-5.0700	-3.1053
7684	27.27	-.8242	-.7164	-.7899	.3480	.3397	.2146	-.1711	-.8534	-2.3850	-5.0494	-3.3666
7685	-.10	-.1161	-.1262	-.2842	-.1332	-.1246	-.1292	-.1355	-.1124	-.0373	.2401	-.0098

TEST 63 RUN 25

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7671	-.13	-.0822	-.0712	-.0686	-.0743	-.0796	-.0773	-.0981	-.2498	-.2041	-.2190	-.2141
7672	-1.62	.0110	-.0146	-.0333	-.0471	-.0605	-.0746	-.0841	-.2280	-.2174	-.2513	-.2672
7673	2.42	-.2737	-.2417	-.2189	-.2000	-.1656	-.0992	-.0994	-.2216	-.1174	-.1021	-.0786
7674	4.03	-.4193	-.3670	-.2994	-.2691	-.2110	-.1064	-.1029	-.2114	-.0909	-.0521	-.0086
7675	6.63	-.7320	-.5649	-.4507	-.3861	-.2866	-.1198	-.1110	-.1944	-.0435	.0335	.0787
7676	8.73	-.9946	-.7574	-.5901	-.4963	-.3544	-.1302	-.1179	-.1934	-.0115	.0817	.1341
7677	11.22	-1.2947	-.9807	-.7478	-.6358	-.4751	-.1679	-.1381	-.2057	.0242	.1292	.1868
7678	13.67	-1.3678	-1.0778	-.9748	-.9095	-.4843	-.1929	-.1568	-.1631	.0750	.1832	.2209
7679	16.01	-1.4218	-1.4086	-1.5051	-1.0228	-.5978	-.3336	-.3123	-.3503	.0938	.2201	.2510
7680	18.40	-1.8677	-2.0166	-1.5301	-.9696	-.7163	-.5778	-.5409	-.5540	.1293	.2488	.2743
7681	20.70	-2.3086	-2.2216	-1.3127	-1.0221	-.7813	-.6767	-.6022	-.6042	.1637	.2771	.2944
7682	23.27	-2.0879	-2.0709	-1.3710	-.9583	-.8773	-.6760	-.5984	-.5974	.1910	.2939	.2986
7683	25.65	-2.6629	-2.5446	-1.6477	-1.1072	-1.0491	-.7883	-.7394	-.7249	.2212	.3124	.3050
7684	27.27	-3.0826	-2.9462	-1.7727	-1.2247	-1.1709	-.8559	-.8046	-.7573	.2421	.3288	.3040
7685	-.10	-.1002	-.1099	-.1069	-.1073	-.0933	-.0729	-.0765	-.2137	-.1666	-.1902	-.1997

TEST 63 RUN 25

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7671	-.13	-.1971	-.1643	-.0457	.2176	.0235	-.0709	-.1121	-.1434	-.1465	-.1274
7672	-1.62	-.2961	-.3064	-.2451	.0378	.1161	.0401	-.0070	-.0449	-.0617	-.0618
7673	2.42	-.0283	.0344	.1427	.1961	-.2376	-.2753	-.2534	-.2285	-.2096	-.1456
7674	4.03	.0485	.1190	.1984	.0719	-.4699	-.4442	-.3917	-.3155	-.2724	-.1768
7675	6.63	.1463	.1994	.1763	-.3921	-.9114	-.7795	-.6401	-.4464	-.4031	-.2326
7676	8.73	.1994	.2157	.0646	-1.0956	-1.4493	-.9791	-.7487	-.5856	-.4886	-.2809
7677	11.22	.2194	.1726	-.1673	-2.0561	-2.0068	-1.3368	-.9841	-.7335	-.6104	-.4200
7678	13.67	.2176	.0924	-.4485	-3.0294	-2.1904	-1.4221	-1.1186	-.9735	-.8797	-.4718
7679	16.01	.1949	.0218	-.6393	-3.4629	-2.1606	-1.6841	-1.5675	-1.4244	-.9203	-.4117
7680	18.40	.2050	-.0336	-.7885	-3.0037	-3.0206	-3.4891	-2.2993	-1.0408	-.7897	-.5939
7681	20.70	.2031	-.0536	-.8171	-2.4829	-2.3454	-2.3615	-1.9992	-1.6043	-1.3926	-1.0205
7682	23.27	.1746	-.1281	-.9369	-2.4450	-2.2787	-2.2689	-1.9757	-1.8209	-1.5783	-1.0970
7683	25.65	.1538	-.1667	-.9748	-1.8341	-1.7749	-1.7327	-1.6523	-1.5186	-1.4033	-1.1224
7684	27.27	.1367	-.2076	-.9929	-1.6963	-1.6710	-1.5980	-1.5606	-1.4200	-1.2925	-1.0483
7685	-.10	-.1960	-.1795	-.0704	.1953	.0184	-.0560	-.0815	-.1025	-.1018	-.0831

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 26

TP	MACH	Q PASCALS	ALPHA DEGREES	CL	CD	CM	CN	CA	CRM	L/D	XCP/L
7688	.162	1843.4	-.13	-.0661	.0152	.0272	-.0661	.0151	.0010	-4.34	.699
7689	.161	1819.9	-1.60	-.1183	.0172	.0336	-.1187	.0138	.0010	-6.89	.613
7690	.161	1826.8	2.45	.0251	.0147	.0166	.0257	.0136	.0011	1.70	-.006
7691	.161	1822.2	4.06	.0809	.0163	.0102	.0818	.0105	.0012	4.96	.341
7692	.160	1815.8	6.59	.1692	.0220	.0001	.1706	.0024	.0014	7.69	.424
7693	.160	1811.3	8.95	.2519	.0312	-.0098	.2536	-.0083	.0013	8.07	.450
7694	.160	1797.7	11.23	.3547	.0501	-.0298	.3577	-.0200	.0027	7.08	.480
7695	.160	1816.7	13.61	.4626	.0865	-.0451	.4699	-.0248	-.0008	5.35	.488
7696	.160	1811.5	16.18	.6056	.1482	-.0686	.6229	-.0264	.0016	4.09	.497
7698	.160	1816.4	18.59	.6995	.2096	-.0728	.7298	-.0243	.0013	3.34	.491
7699	.160	1812.1	20.93	.7984	.2762	-.0851	.8443	-.0273	.0018	2.89	.491
7700	.160	1810.9	23.09	.8842	.3438	-.0958	.9482	-.0305	.0008	2.57	.491
7701	.160	1811.4	25.73	.9756	.4321	-.1113	1.0664	-.0343	.0010	2.26	.494
7702	.161	1821.9	27.30	1.0279	.4888	-.1205	1.1376	-.0371	.0010	2.10	.495
7704	.160	1803.6	-.11	-.0653	.0148	.0274	-.0653	.0147	.0010	-4.41	.703

Applied transition strip.

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 26

TP	ALPHA DEGREES	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108	CP109	CP110	CP111
7688	-.13	.1134	.0545	.0235	.0030	-.0191	.0527	.0490	.2652	.0740	-.0106	-.0009
7689	-1.60	.0571	-.0437	-.0608	-.0642	-.0910	-.0096	-.0130	.2754	.1815	.0740	.0525
7690	2.45	.0860	.0732	.0829	.0864	.0990	.2203	.2224	.2016	-.1008	-.1539	-.1325
7691	4.06	.1242	.1216	.1322	.1351	.1680	.2670	.2696	.0271	-.2518	-.2589	-.2134
7692	6.59	.1427	.1858	.2027	.2065	.2256	.2930	.2939	-.4388	-.5369	-.4482	-.3459
7693	8.95	.2274	.2461	.2651	.2660	.2976	.2683	.2670	-.9619	-.8998	-.6363	-.4943
7694	11.23	.2748	.2947	.3152	.3174	.3344	.1888	.1895	-1.6676	-1.2862	-.8431	-.6585
7695	13.61	.3159	.3399	.3597	.3569	.3418	.0539	.0521	-2.5635	-1.5449	-1.1118	-.8412
7696	16.18	.3748	.3993	.4004	.3977	.3103	-.1755	-.1585	-3.4307	-2.0039	-1.4005	-1.1457
7698	18.59	.4205	.4419	.4292	.4328	.3302	-.3853	-.3992	-3.9983	-2.3088	-1.7367	-1.4609
7699	20.93	.4636	.4851	.4596	.4623	.3396	-.5330	-.5309	-3.6076	-3.2891	-3.4124	-3.1004
7700	23.09	.3166	.5133	.4797	.4827	.3517	-.6490	-.6460	-3.1168	-3.1299	-3.3969	-3.7110
7701	25.73	.5234	.5468	.4929	.4969	.2783	-.8783	-.8719	-3.2499	-3.3928	-3.6579	-4.0045
7702	27.30	.5530	.5673	.5032	.5005	.2215	-1.0506	-1.0618	-3.3905	-3.5395	-3.8768	-3.9772
7704	-.11	.0697	-.0067	-.0064	-.0068	-.0053	.0937	.0928	.2945	.0937	-.0007	-.0143

TEST 63 RUN 26

TP	ALPHA DEGREES	CP112	CP113	CP114	CP115	CP116	CP117	CP118	CP119	CP120	CP121	CP122
7688	-.13	-.0135	.0231	.0649	-.0151	-.0738	-.0760	-.0654	-.0345	.0484	.2597	.0472
7689	-1.60	.0220	.0495	.0877	-.0381	-.1039	-.1047	-.1146	-.1150	-.0743	.2394	.1290
7690	2.45	-.1272	-.0686	.0002	.0631	.0300	.0571	.0876	.1294	.1978	.1724	-.1856
7691	4.06	-.1819	-.1187	-.0339	.0948	.0779	.1135	.1451	.1882	.2478	-.0030	-.3387
7692	6.59	-.2891	-.2030	-.0918	.1390	.1537	.1884	.2266	.2556	.2659	-.4881	-.6839
7693	8.95	-.3945	-.2782	-.1496	.1795	.2111	.2462	.2760	.2869	.2239	-1.1182	-1.0339
7694	11.23	-.5027	-.3750	-.2402	.2203	.2607	.2870	.3005	.2800	.1287	-1.9950	-1.4044
7695	13.61	-.6265	-.5165	-.3783	.2606	.3051	.3233	.3128	.2395	-.0490	-2.8427	-1.7158
7696	16.18	-.8699	-.7478	-.5952	.3043	.3626	.3554	.3131	.1962	-.2255	-3.4074	-3.5726
7698	18.59	-1.0909	-.9390	-.8105	.3639	.3897	.3805	.3022	.1238	-.4044	-3.4393	-3.5549
7699	20.93	-1.7200	-1.2158	-.7196	.4092	.4201	.3870	.2892	.0846	-.5199	-2.8716	-3.0000
7700	23.09	-3.2451	-2.1907	-.8447	.4481	.4453	.3992	.2779	.0394	-.6031	-2.5803	-2.7103
7701	25.73	-4.5156	-3.2041	-1.0291	.4427	.4685	.4138	.2572	-.0248	-.7433	-2.5901	-2.6616
7702	27.30	-4.8312	-3.7210	-1.1575	.5063	.4898	.4166	.2387	-.0553	-.8049	-2.5508	-2.5813
7704	-.11	-.0323	-.0010	.0442	-.0178	-.0513	-.0450	-.0367	-.0168	.0479	.2558	.0375

TEST 63 RUN 26

TP	ALPHA DEGREES	CP123	CP124	CP125	CP126	CP127	CP128	CP129	CP130	CP131	CP132	CP133
7688	-.13	.0057	.0133	-.0007	-.0395	-.0408	-.1271	-.1256	-.0983	-.0640	.0325	.2282
7689	-1.60	.0693	.0658	.0547	.0170	-.0679	-.1581	-.1729	-.1767	-.1789	-.1107	.1672
7690	2.45	-.1864	-.1386	-.1108	-.1165	-.0440	-.0130	.0077	.0453	.0880	.1806	.0703
7691	4.06	-.2876	-.2356	-.1741	-.1703	-.0082	.0427	.0715	.1134	.1589	.2309	-.1648
7692	6.59	-.5410	-.3641	-.2804	-.2589	-.0013	.1273	.1553	.1969	.2277	.2247	-.7967
7693	8.95	-.7258	-.5426	-.4161	-.3479	-.0495	.1824	.2151	.2468	.2527	.1303	-1.6347
7694	11.23	-.9613	-.7164	-.5416	-.4558	-.1495	.2346	.2553	.2649	.2338	-.0271	-2.5822
7695	13.61	-1.1614	-.8832	-.7210	-.6977	-.1848	.2776	.2932	.2793	.1911	-.2515	-3.5850
7696	16.18	-1.7923	-.6448	-.6558	-.6669	-.5388	.3336	.3338	.2958	.1693	-.3531	-2.4999
7698	18.59	-3.4091	-2.1419	-1.1809	-.9576	-.8207	.3623	.3474	.2807	.1125	-.4908	-2.2783
7699	20.93	-3.2369	-2.9580	-2.6043	-2.2671	-1.3353	.3871	.3605	.2742	.0741	-.5758	-1.9257
7700	23.09	-2.7856	-2.6720	-2.9010	-3.3523	-1.9531	.4134	.3697	.2623	.0320	-.6521	-1.8095
7701	25.73	-2.8001	-2.6785	-2.5875	-3.2110	-1.9737	.4343	.3705	.2299	-.0354	-.7519	-1.6135
7702	27.30	-2.6642	-2.5903	-2.3360	-2.8502	-2.3388	.4415	.3702	.2123	-.0831	-.8494	-1.7137
7704	-.11	-.0146	-.0028	-.0101	-.0344	-.0154	-.1040	-.0996	-.0857	-.0638	.0172	.2177

TEST 63 RUN 26

TP	ALPHA DEGREES	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144
7688	-.13	.0404	-.0022	-.0513	-.0586	-.0891	-.1018	-.0941	-.1473	-.1505	-.1275	-.0880
7689	-1.60	.1227	.0599	.0023	-.0029	-.0391	-.0565	-.0817	-.1922	-.2236	-.2300	-.2227
7690	2.45	-.2148	-.1989	-.2292	-.1670	-.1809	-.1566	.0042	-.0381	-.0234	.0240	.0707
7691	4.06	-.4057	-.3423	-.3371	-.2393	-.2431	-.1942	.0438	.0182	.0389	.0929	.1454
7692	6.59	-.8155	-.5814	-.5327	-.3833	-.3538	-.2679	.0911	.0960	.1294	.1761	.2095
7693	8.95	-1.2122	-.7974	-.7299	-.5186	-.4417	-.3374	.1362	.1582	.1906	.2314	.2341
7694	11.23	-1.4862	-1.0133	-.9148	-.6336	-.5323	-.4565	.1800	.2057	.2359	.2522	.2132
7695	13.61	-1.6669	-1.1307	-1.0759	-.9723	-.9031	-.8629	.2251	.2586	.2770	.2669	.1936
7696	16.18	-2.3472	-2.3073	-2.2934	-2.1244	-1.8631	-.9722	.2632	.2993	.3085	.2751	.1638
7698	18.59	-2.1859	-2.2165	-2.2875	-2.4146	-2.5918	-1.6636	.2977	.3377	.3337	.2845	.1386
7699	20.93	-1.9072	-1.9529	-2.0149	-2.0141	-2.2935	-2.5008	.3306	.3656	.3478	.2750	.1108
7700	23.09	-1.8158	-1.8850	-1.9887	-1.9447	-1.9754	-2.3518	.3642	.3817	.3528	.2518	.0422
7701	25.73	-1.7006	-1.7889	-1.8693	-1.8320	-1.8893	-2.1143	.3960	.4078	.3563	.2292	-.0015
7702	27.30	-1.8173	-1.8630	-1.9551	-1.8436	-1.8257	-2.0299	.4110	.4183	.3617	.2172	-.0424
7704	-.11	.0260	-.0258	-.0749	-.0633	-.0883	-.0805	-.0828	-.1368	-.1468	-.1309	-.0986

NASA LANGLEY 7 X 10 HIGH SPEED TUNNEL

TEST 63 RUN 26

TP	ALPHA DEGREES	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209	CP210	CP211
7688	-.13	.0321	.3079	.0394	-.0326	-.0884	-.1182	-.1457	-.1190	-.0847	-.0563	-.0693
7689	-1.60	-.1901	.2018	.1073	.0520	.0168	-.0217	-.0449	-.0385	-.0436	-.0344	-.0627
7690	2.45	.1464	.1998	-.2526	-.2470	-.2341	-.2116	-.2026	-.1509	-.0901	-.0715	-.0937
7691	4.06	.2002	-.0039	-.4539	-.4024	-.3585	-.3010	-.2763	-.1960	-.1039	-.0861	-.1006
7692	6.59	.1965	-.5920	-.8778	-.6475	-.5573	-.4502	-.3843	-.2671	-.1308	-.1086	-.1139
7693	8.95	.1025	-1.3912	-1.2423	-.9448	-.7488	-.5852	-.4879	-.3424	-.1794	-.1381	-.1424
7694	11.23	-.0709	-2.2384	-1.5881	-1.0989	-.8943	-.7140	-.6443	-.5528	-.1896	-.1526	-.1557
7695	13.61	-.2029	-2.2351	-1.5917	-1.3482	-1.2561	-1.0082	-.9231	-.9104	-.2662	-.1692	-.1565
7696	16.18	-.3025	-1.9631	-1.6499	-1.6613	-1.6290	-1.5440	-1.6056	-1.5328	-.1880	-.1078	-.0993
7698	18.59	-.3828	-1.6971	-1.6137	-1.6383	-1.6015	-1.6436	-1.7291	-1.9376	-.5529	-.4833	-.4630
7699	20.93	-.4562	-1.5463	-1.5532	-1.5102	-1.4894	-1.4724	-1.4387	-1.7517	-.8350	-.6809	-.6309
7700	23.09	-.5764	-1.5633	-1.6573	-1.5619	-1.4030	-1.4275	-1.4073	-1.5973	-.9385	-.8120	-.7506
7701	25.73	-.6833	-1.4974	-1.5772	-1.5166	-1.4632	-1.4977	-1.4043	-1.4515	-1.0422	-.8895	-.8534
7702	27.30	-.7438	-1.4496	-1.5108	-1.4623	-1.4794	-1.4711	-1.4648	-1.4675	-1.0265	-.9294	-.8848
7704	-.11	-.0486	.2593	.0032	-.0496	-.0646	-.0851	-.1022	-.0766	-.0610	-.0488	-.0784

TEST 63 RUN 26

TP	ALPHA DEGREES	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220	CP221	CP222
7688	-.13	-.0706	-.0951	-.2769	-.1489	-.1796	-.2001	-.1935	-.1577	-.0478	.2426	.0235
7689	-1.60	-.0705	-.0994	-.2777	-.1649	-.2127	-.2369	-.2642	-.2770	-.2255	.1776	.1209
7690	2.45	-.0945	-.1159	-.2727	-.0726	-.0553	-.0423	-.0036	.0488	.1509	.0960	-.2603
7691	4.06	-.1005	-.1149	-.2596	-.0394	.0087	.0233	.0687	.1296	.2040	-.1980	-.4677
7692	6.59	-.1110	-.1166	-.2373	.0138	.0842	.1094	.1604	.2028	.1830	-.9458	-.9216
7693	8.95	-.1318	-.1291	-.2483	.0631	.1456	.1745	.2126	.2193	.0698	-1.8952	-1.3345
7694	11.23	-.1450	-.1436	-.2582	.1102	.1932	.2132	.2343	.1885	-.1210	-2.9857	-1.6960
7695	13.61	-.1221	-.1093	-.3232	.1525	.2388	.2573	.2486	.1619	-.2496	-2.3604	-1.8578
7696	16.18	-.0946	-.1316	-.2875	.1981	.2849	.2888	.2697	.1598	-.2690	-1.5210	-1.4912
7698	18.59	-.4060	-.3465	-.4997	.2245	.3107	.3153	.2773	.1565	-.2854	-1.1582	-1.1477
7699	20.93	-.5338	-.4590	-.5876	.2519	.3307	.3198	.2688	.1288	-.3204	-.9722	-.9846
7700	23.09	-.6792	-.5829	-.7004	.2820	.3439	.3206	.2448	.0535	-.4875	-1.1354	-1.1685
7701	25.73	-.7990	-.6969	-.7862	.3098	.3584	.3290	.2262	.0061	-.5616	-1.0651	-1.0862
7702	27.30	-.8263	-.7256	-.8042	.3322	.3750	.3279	.2051	-.0230	-.6056	-1.0557	-1.1049
7704	-.11	-.0863	-.1117	-.2815	-.1401	-.1464	-.1623	-.1595	-.1376	-.0428	.2417	.0171

TEST 63 RUN 26

TP	ALPHA DEGREES	CP223	CP224	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233
7688	-.13	-.0581	-.0678	-.0735	-.1131	-.1143	-.1096	-.1135	-.2371	-.1858	-.1906	-.1831
7689	-1.60	.0273	.0031	-.0113	-.0421	-.0537	-.0688	-.0842	-.2240	-.1940	-.2504	-.2783
7690	2.45	-.2996	-.2516	-.2092	-.2049	-.1616	-.1008	-.1028	-.2221	-.1282	-.1083	-.0778
7691	4.06	-.4376	-.3803	-.2921	-.2735	-.2061	-.1068	-.1032	-.2129	-.0977	-.0513	-.0129
7692	6.59	-.7348	-.5797	-.4372	-.3857	-.2616	-.1125	-.1062	-.1906	-.0514	.0273	.0774
7693	8.95	-1.0270	-.7803	-.6074	-.4949	-.3335	-.1428	-.1320	-.1925	-.0183	.0845	.1362
7694	11.23	-1.1385	-.8797	-.7650	-.7505	-.6135	-.1480	-.1292	-.2043	.0265	.1360	.1851
7695	13.61	-1.6694	-1.2530	-.8719	-.7295	-.6569	-.4489	-.3783	-.4103	.0542	.1758	.2202
7696	16.18	-1.4885	-1.3838	-1.2712	-1.2769	-1.5355	-.3954	-.2809	-.4522	.0991	.2170	.2624
7698	18.59	-1.1350	-1.1077	-1.0575	-1.0117	-1.1324	-.6685	-.5833	-.5991	.1117	.2319	.2664
7699	20.93	-.9717	-.9699	-.9616	-.9279	-1.0252	-.7295	-.6593	-.6429	.1362	.2499	.2771
7700	23.09	-1.1618	-1.1552	-1.1654	-1.1231	-1.0825	-.7896	-.7455	-.7367	.1672	.2708	.2881
7701	25.73	-1.0974	-1.1226	-1.1190	-1.0995	-1.1480	-.8442	-.7923	-.7753	.1884	.2893	.2922
7702	27.30	-1.1332	-1.1597	-1.1669	-1.1723	-1.1704	-.8850	-.8091	-.8001	.2047	.3056	.2973
7704	-.11	-.0790	-.0803	-.0787	-.1001	-.0948	-.0847	-.0927	-.2262	-.1826	-.1999	-.2010

TEST 63 RUN 26

TP	ALPHA DEGREES	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242	CP243
7688	-.13	-.1680	-.1349	-.0519	.2156	.0206	-.0639	-.0910	-.0816	-.1231	-.0838
7689	-1.60	-.3036	-.3121	-.2486	.0216	.1288	.0418	.0006	-.0327	-.0664	-.0610
7690	2.45	-.0260	.0323	.1436	.1940	-.2443	-.2813	-.2477	-.2162	-.2171	-.1470
7691	4.06	.0545	.1226	.1950	.0415	-.4820	-.4396	-.3756	-.2880	-.2822	-.1816
7692	6.59	.1481	.1951	.1633	-.4498	-.9434	-.7923	-.5859	-.4576	-.3974	-.2399
7693	8.95	.1947	.2021	.0303	-1.2031	-1.5339	-1.0396	-.7521	-.5853	-.4722	-.2885
7694	11.23	.2161	.1659	-.1815	-2.0535	-1.7885	-1.1140	-.7551	-.6309	-.5984	-.5269
7695	13.61	.2362	.1604	-.1839	-1.4819	-1.4265	-1.4688	-1.3684	-1.0230	-.8409	-.6442
7696	16.18	.2655	.1728	-.1703	-1.0309	-.9613	-.9647	-.9300	-.8552	-.8499	-.8917
7698	18.59	.2566	.1564	-.1702	-.8102	-.7337	-.7415	-.7097	-.6990	-.7200	-.7796
7699	20.93	.2411	.1005	-.2490	-.8197	-.8001	-.7700	-.7436	-.7856	-.8037	-.8179
7700	23.09	.2311	.0603	-.3745	-.9123	-.8639	-.8738	-.8721	-.8774	-.8466	-.8240
7701	25.73	.2082	.0049	-.4630	-.8774	-.8529	-.8788	-.8842	-.8934	-.8850	-.8699
7702	27.30	.1958	-.0272	-.5339	-.8972	-.9034	-.8897	-.9139	-.9481	-.9383	-.9039
7704	-.11	-.1953	-.1668	-.0510	.2068	.0210	-.0586	-.0812	-.1038	-.1195	-.0961

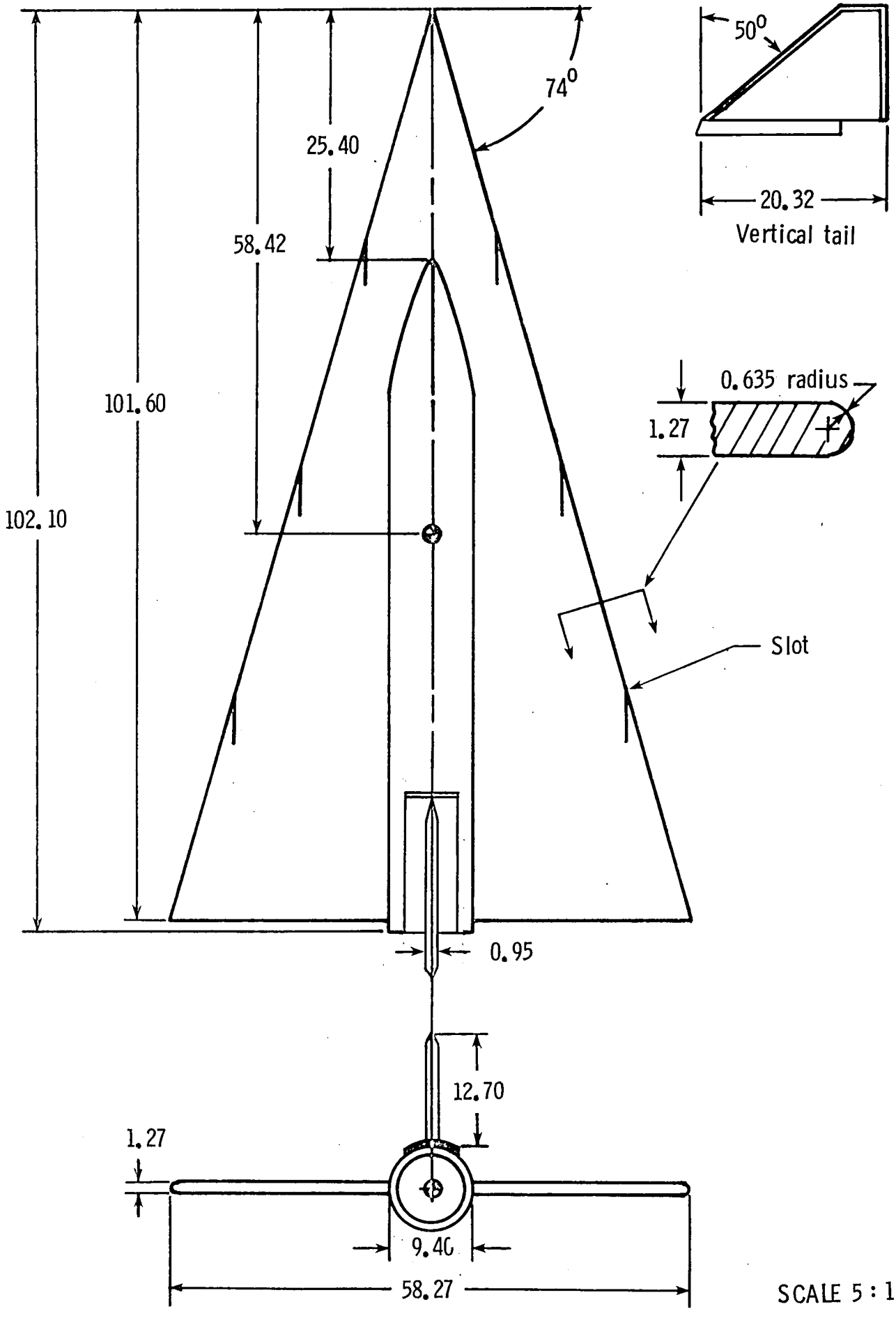


Figure 1. - Details of 74° delta model. Dimensions are in centimeters.

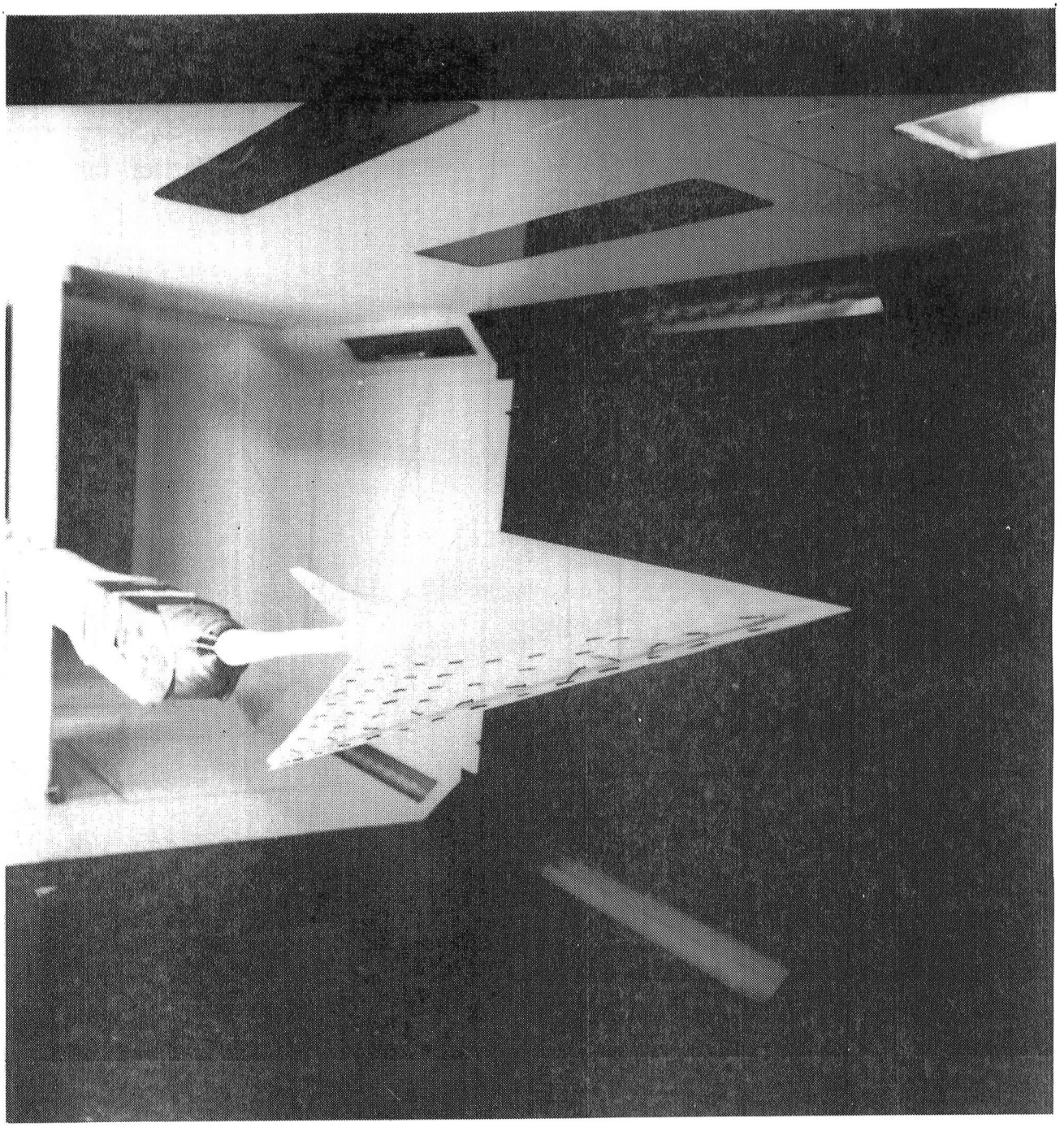
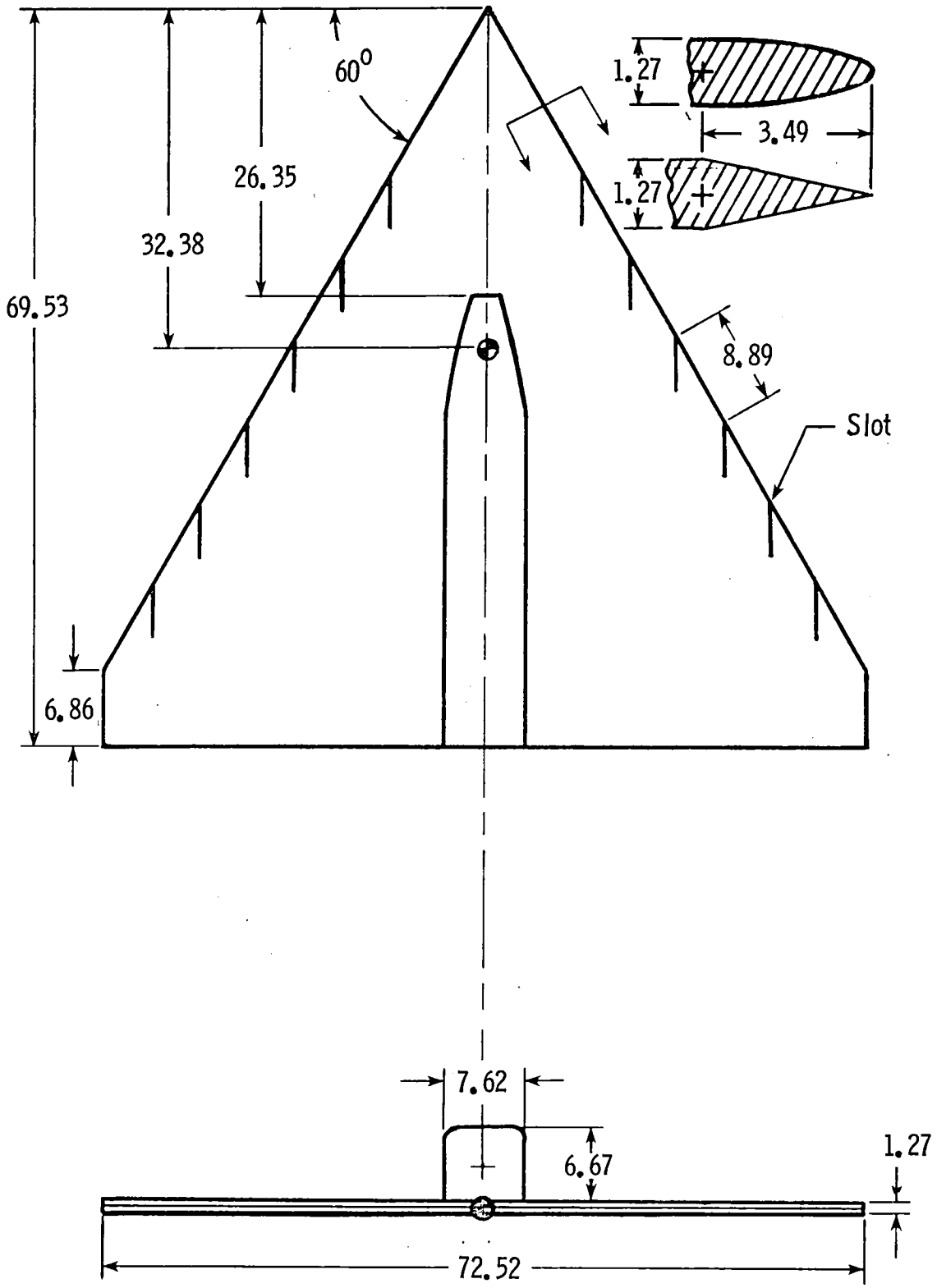


Figure 2. - 74^{o} delta model with L-SLEE, mounted on high angle-of-attack sting. (Test 46)



SCALE 5:1

Figure 3. - Details of 60° delta model with elliptic and wedge leading edges. Dimensions are in centimeters.

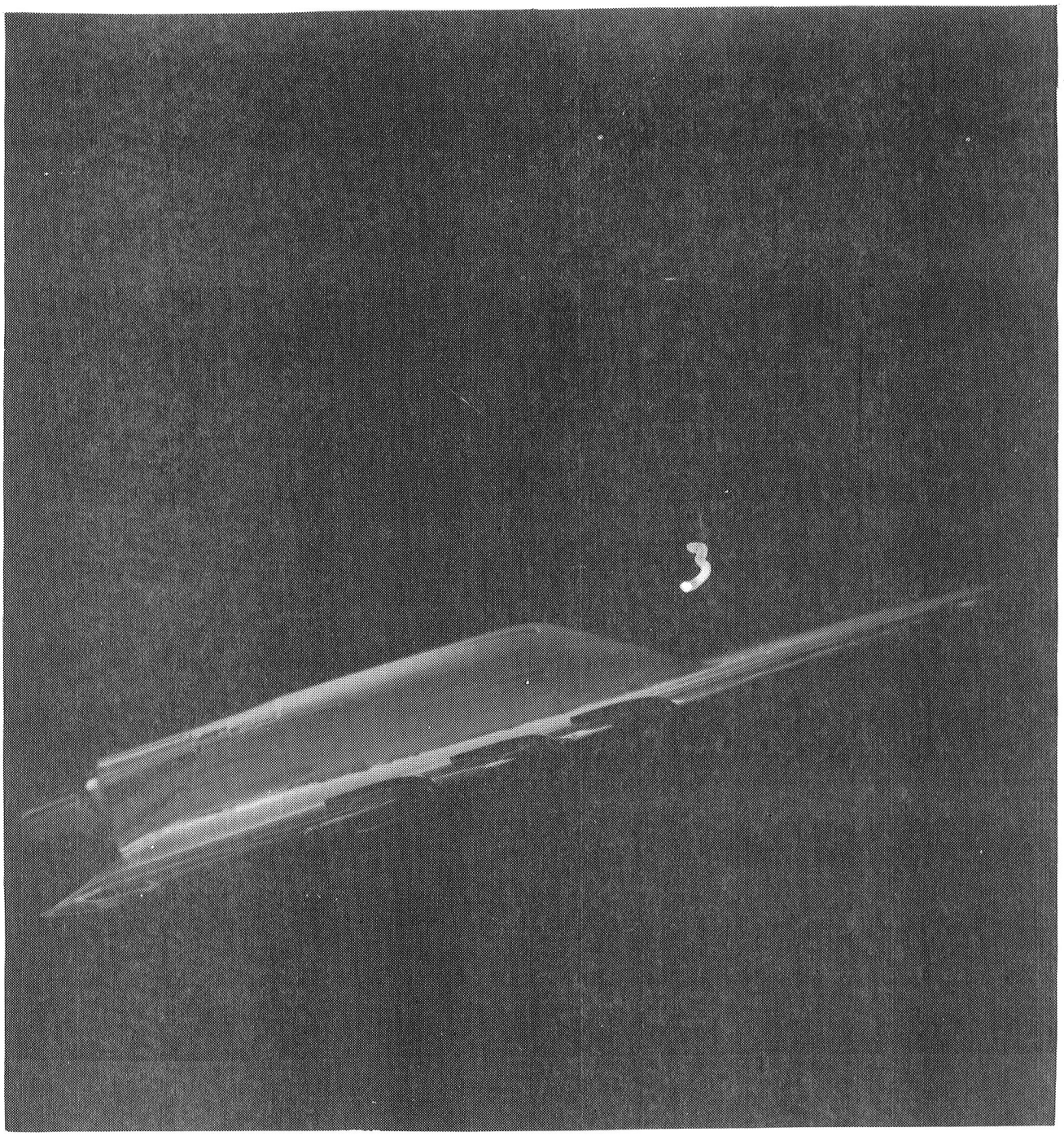


Figure 4. - Side view of 60^{o} delta model with fences at the 50, 62.5, and 75% semispan positions. (Test 51)

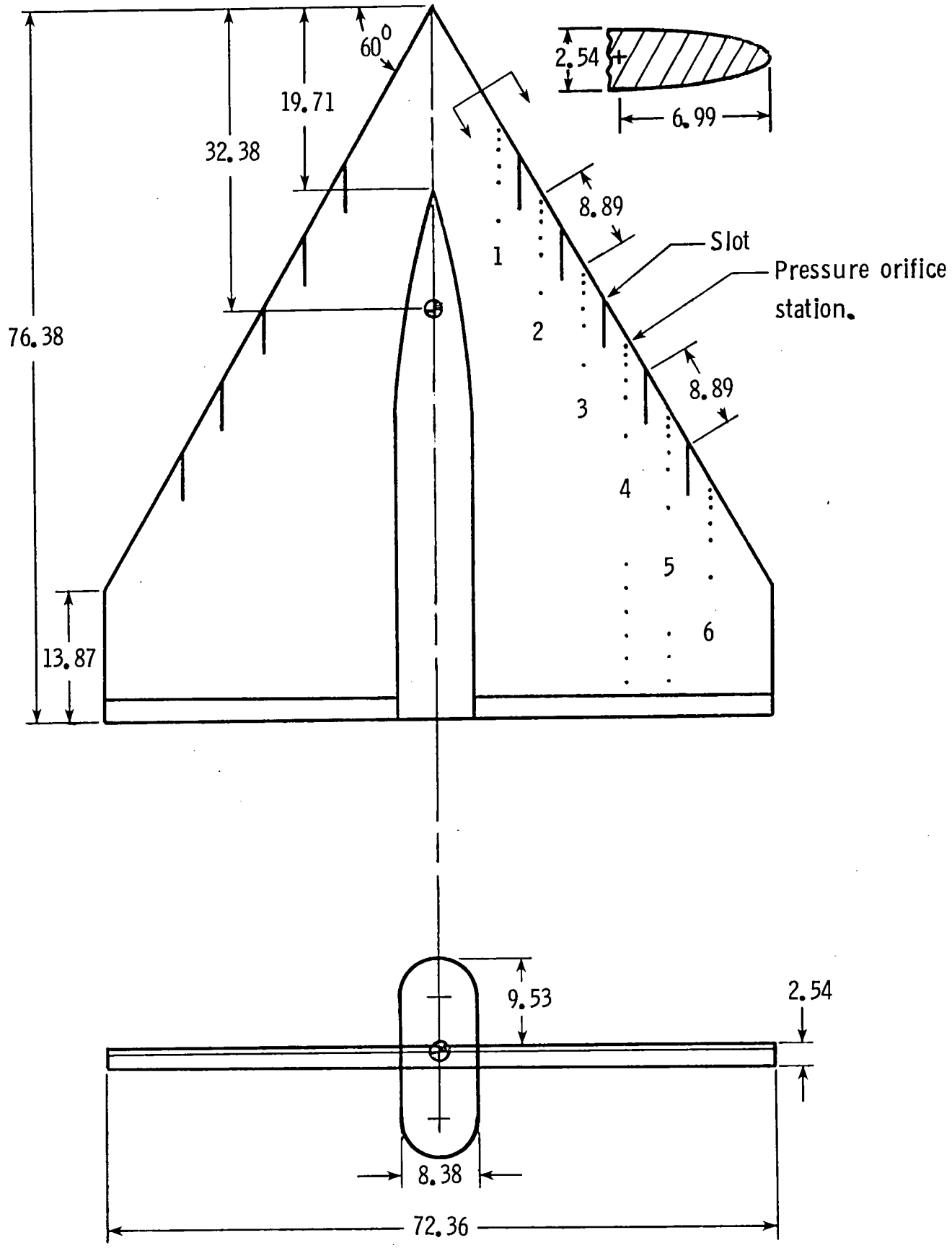


Figure 5. - Details of model. Dimensions are in centimeters.

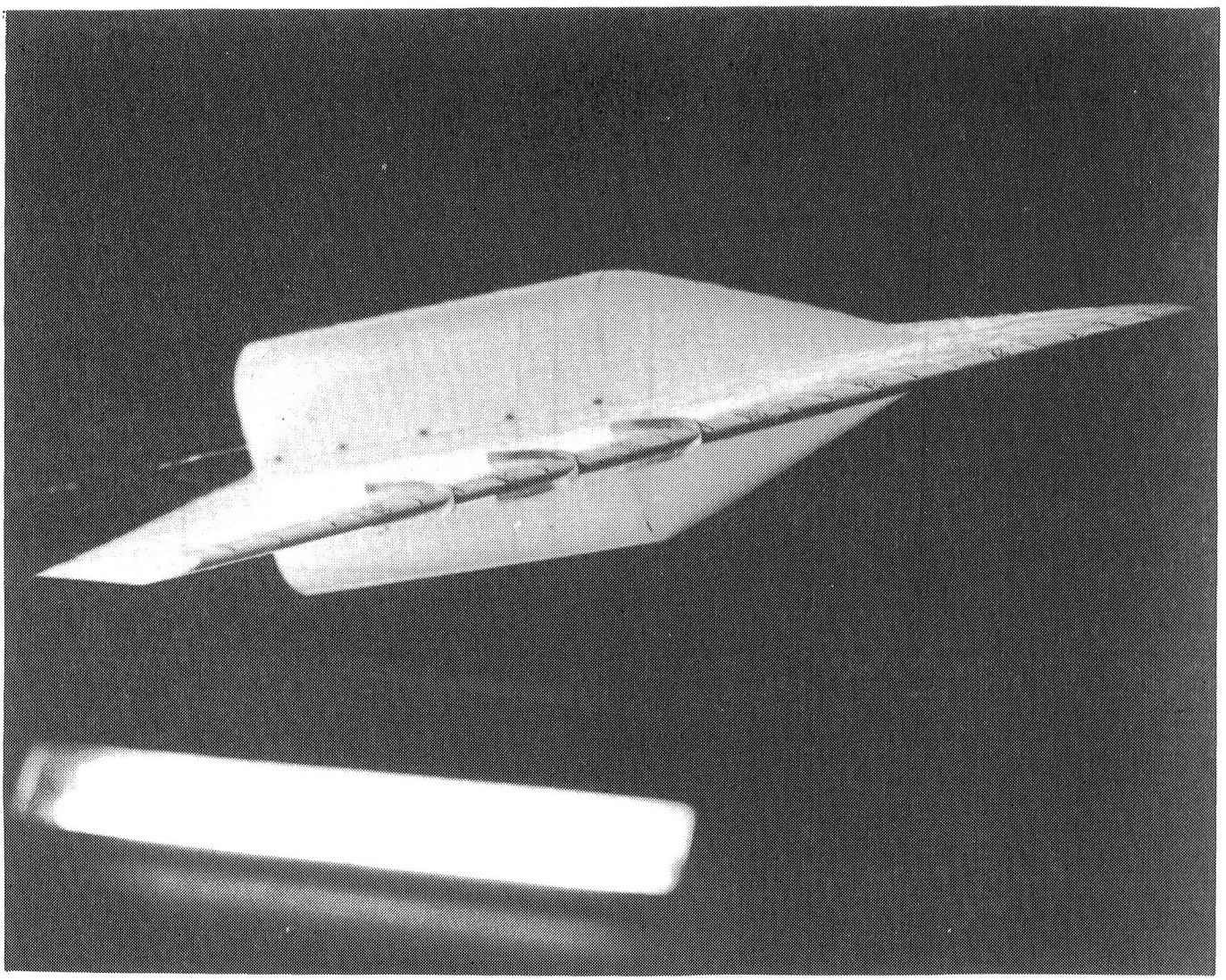


Figure 6. - Side view of 60^{o} delta model showing the top and bottom housings. (Test 63)

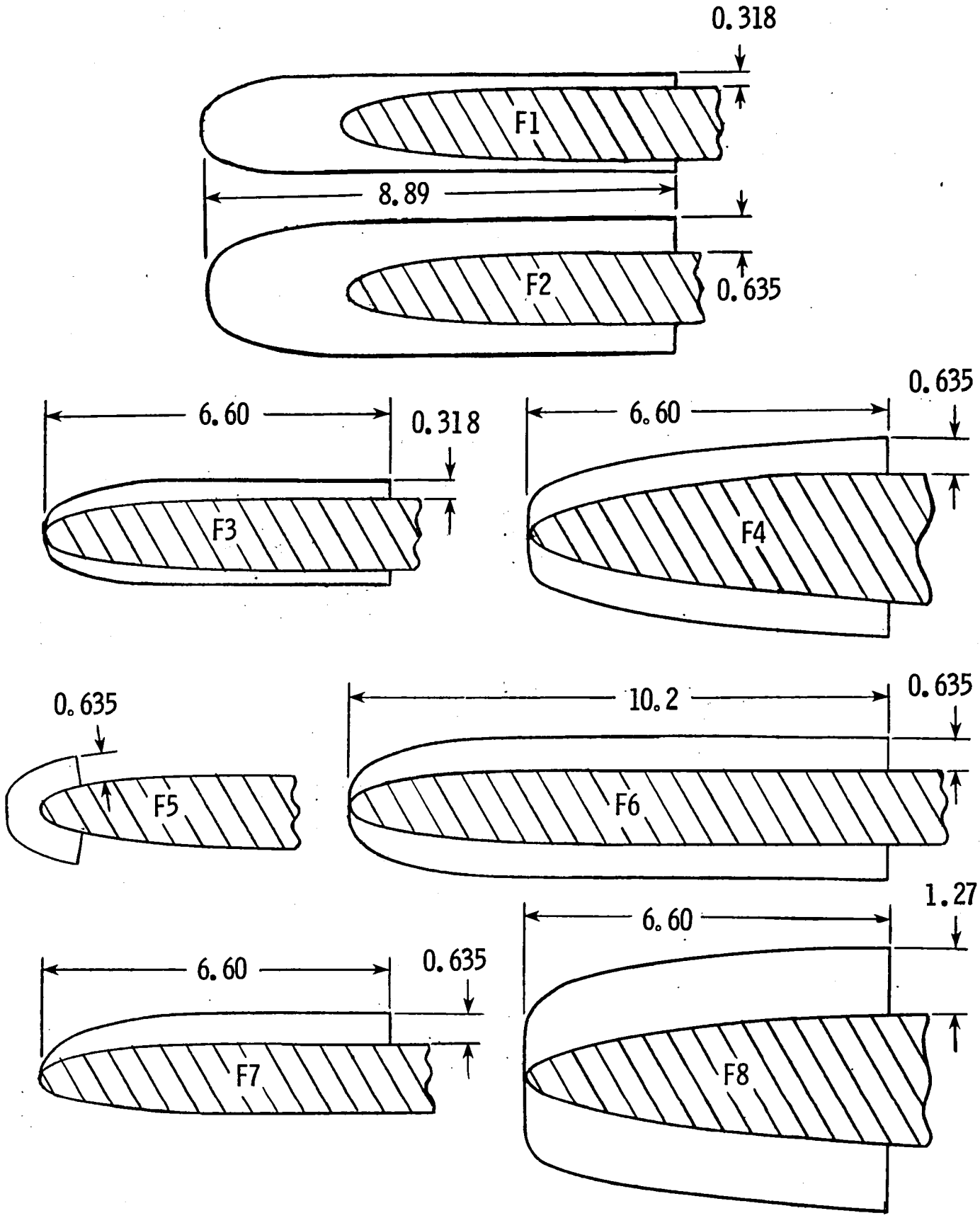


Figure 7. Drawing of fences tested. Dimension are in centimeters.

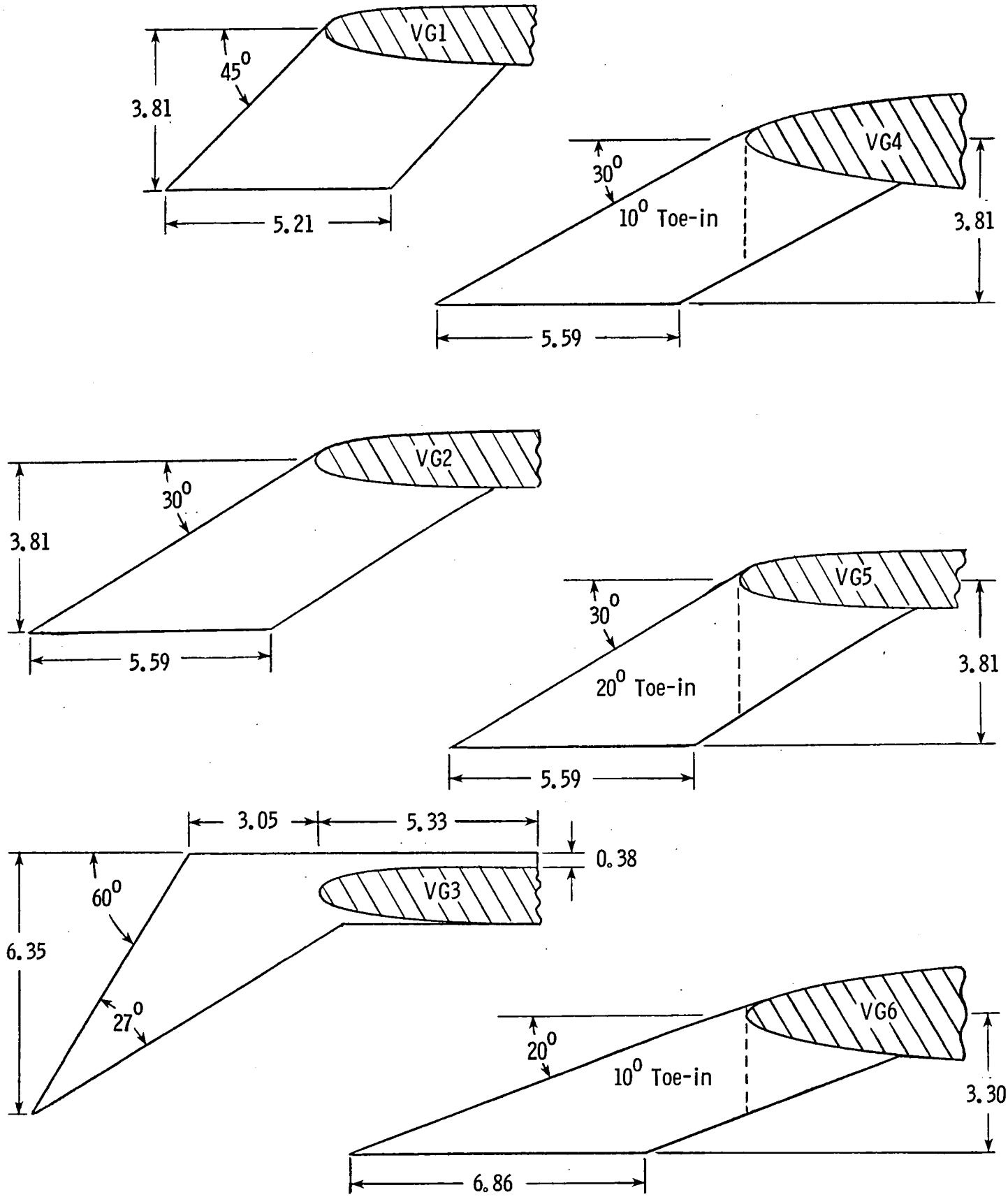
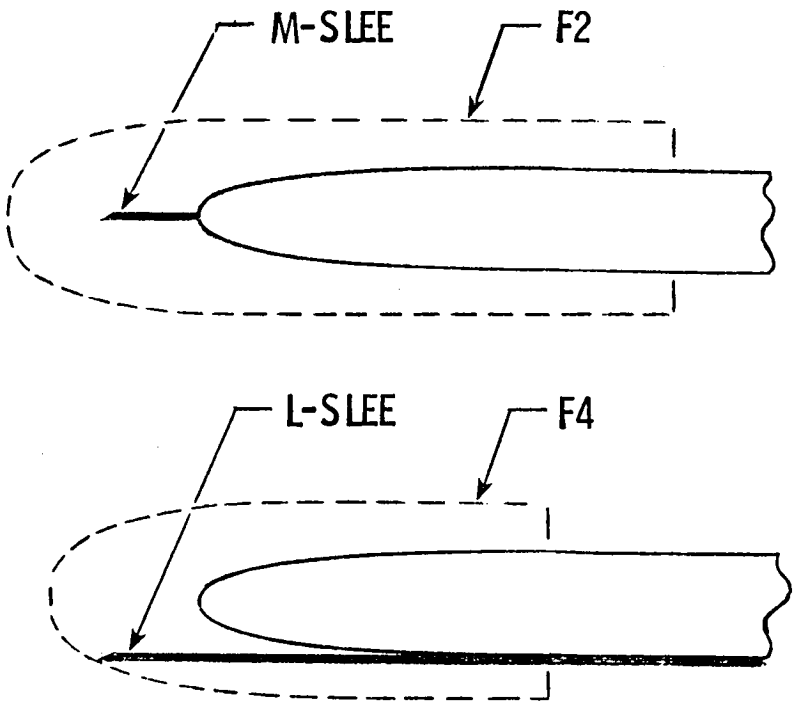


Figure 8. Drawing of pylon-type vortex generators tested. Dimension in centimeters.



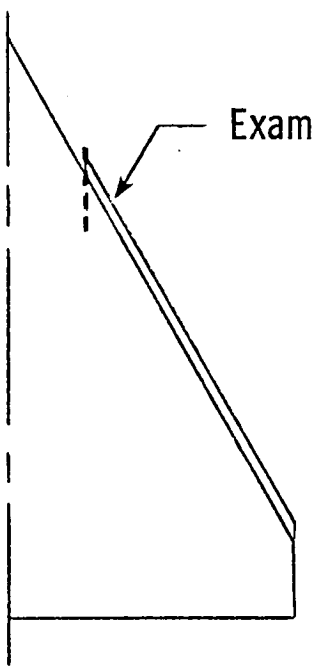


Figure 9. Drawing of sharp leading edge extensions. See tabulated data for projection distance.

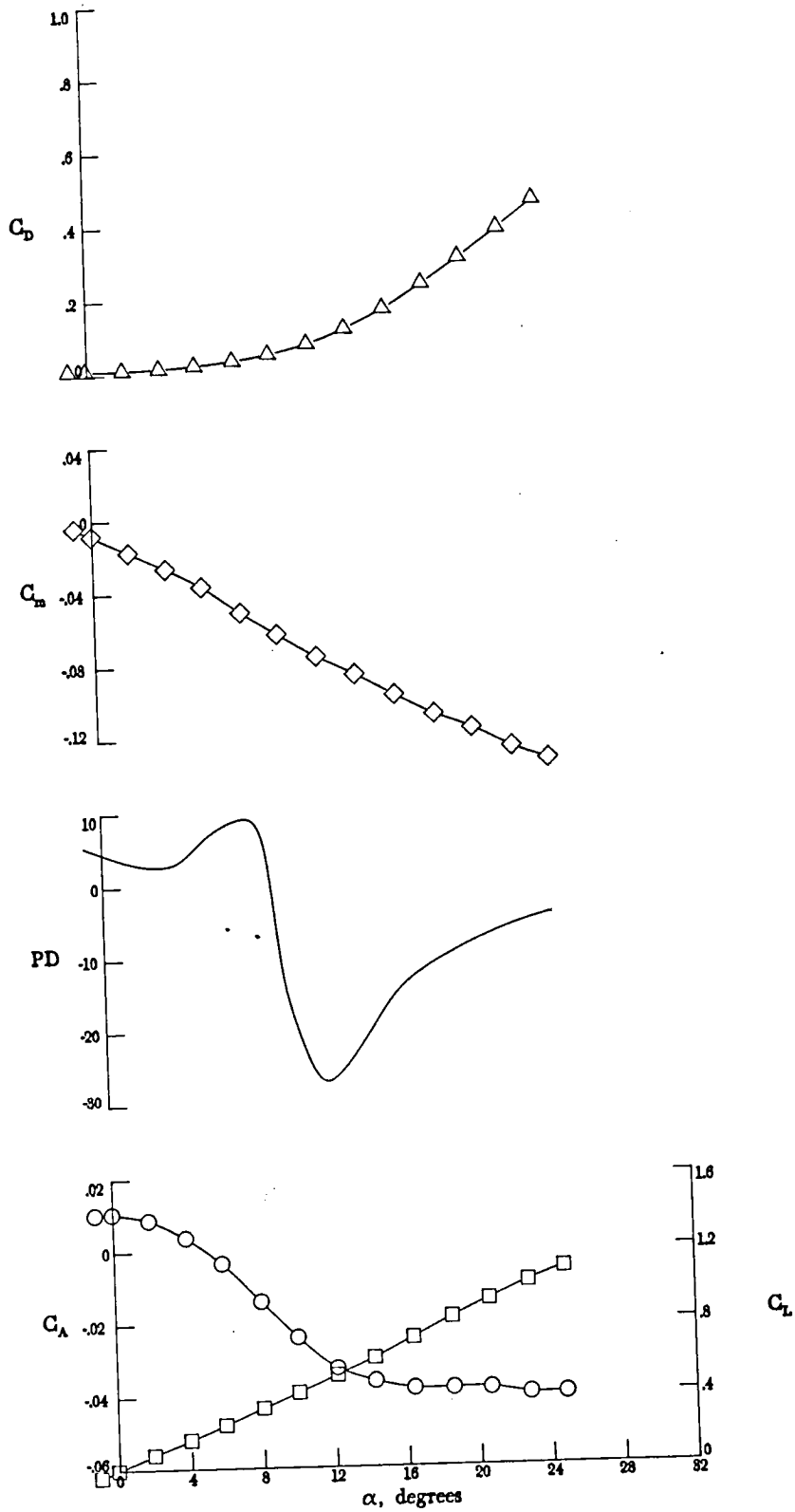


Figure 10. Aerodynamic characteristics of 2x3 F4 type fences. (Test 51, Run 38)

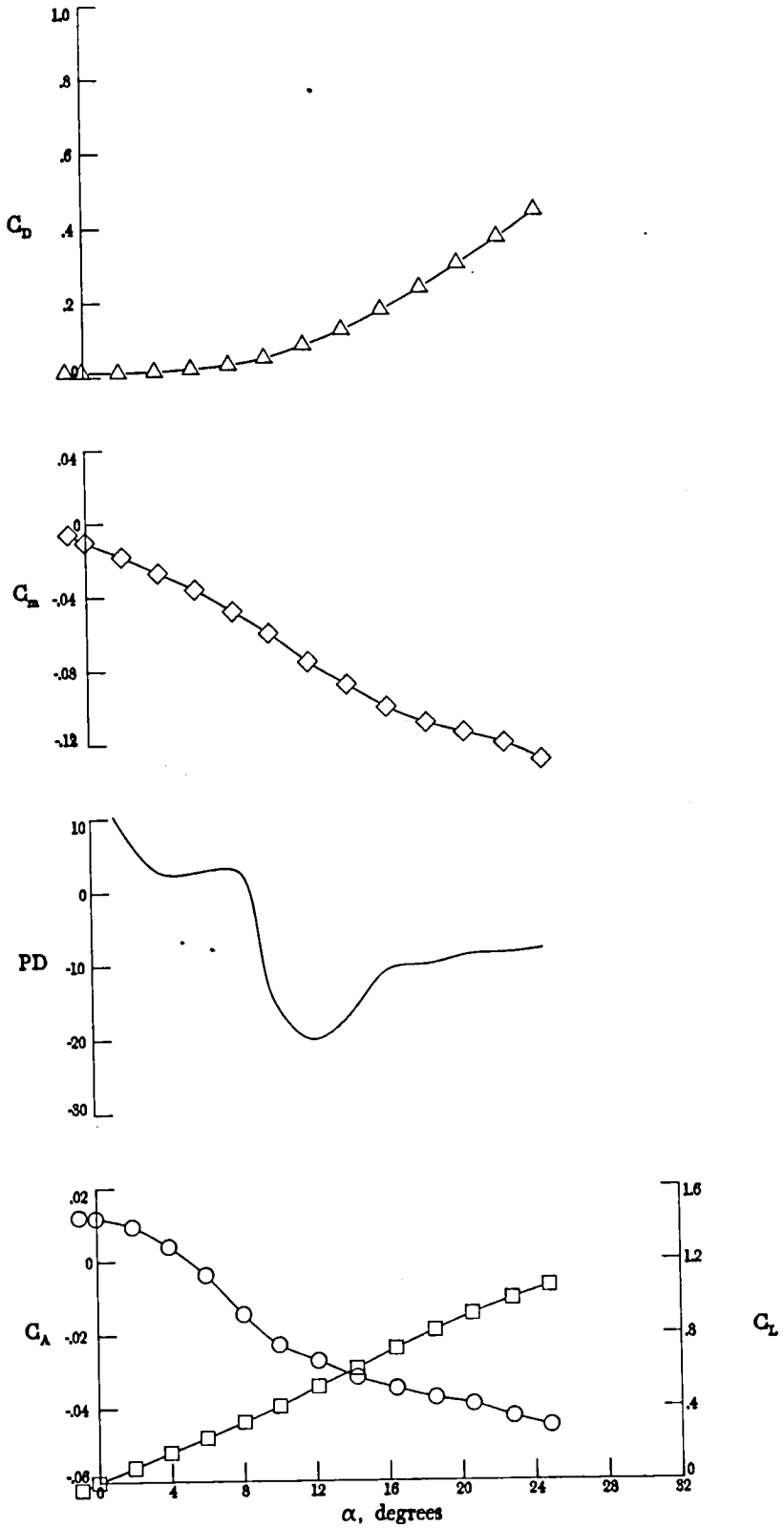


Figure 11. Aerodynamic characteristics of 2×2 VG4 pylon-type vortex generators. (Test 51, Run 48)

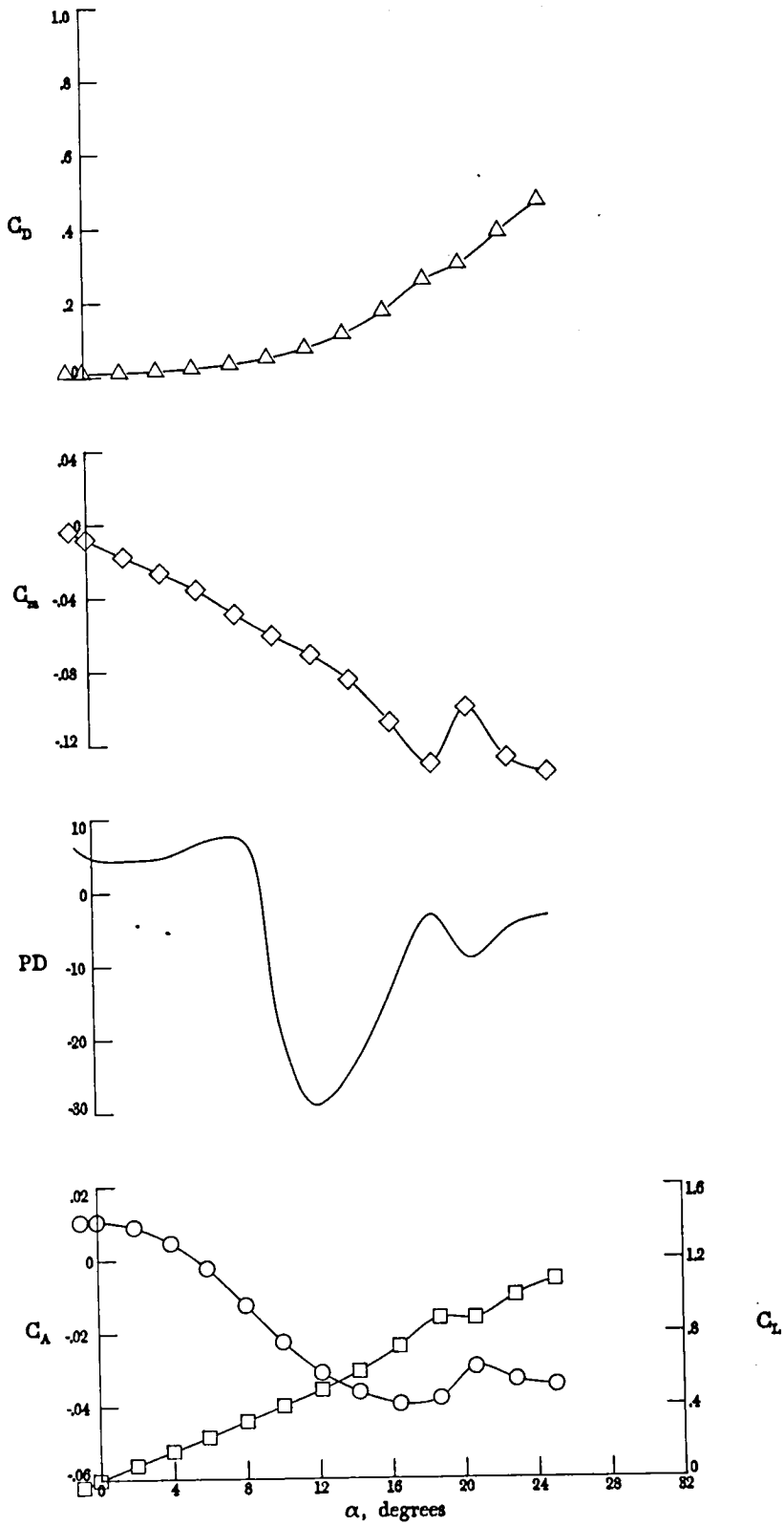


Figure 12. Aerodynamic characteristics of 2×6 slots. (Test 51, Run 54)

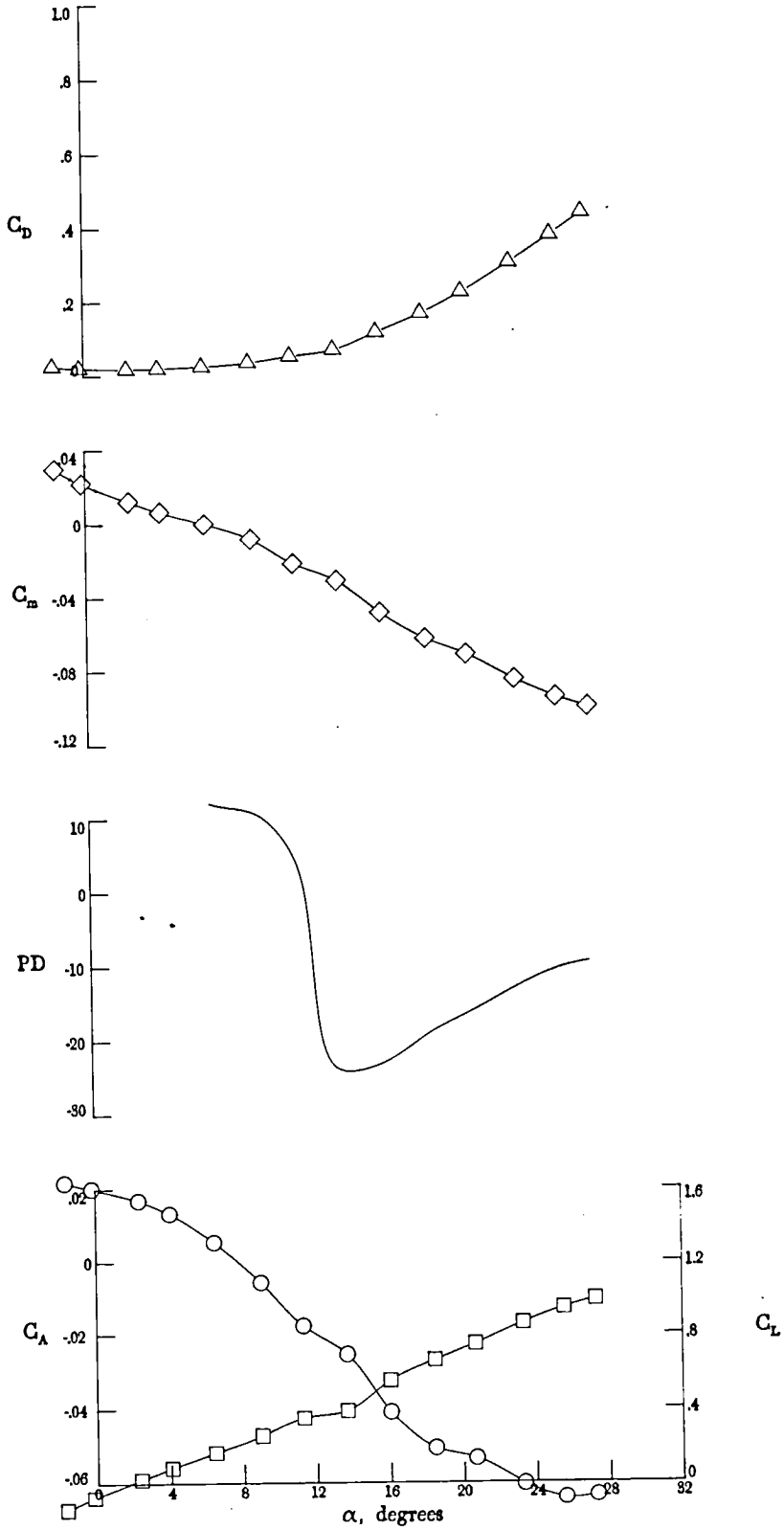


Figure 13. Aerodynamic characteristics of the L-SLEE. (Test 63, Run 24)

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15. Supplementary Notes

Langley Technical Monitor: John B. Peterson, Jr.

16. Abstract

A subsonic wind tunnel study was carried out to evaluate the drag-reduction potential of leading-edge devices on delta wings at high lift. Fences, pylon-type vortex generators, chordwise slots, and sharp plate extensions were tested on wing models with 60^{o} and 74^{o} swept blunt leading edges at angles of attack to 32^{o}. Six-component balance and leading-edge surface pressures measurements were taken with various geometry and spanwise arrangements of the devices. This report presents the data without analysis.

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