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# RESEARCH MEMORANDUM

for the

Air Materiel Command, U. S. Air Force

AN INVESTIGATION OF A FULL-SCALE MODEL OF THE REPUBLIC

XF-91 AIRPLANE IN THE AMES 40- BY 80-FOOT

WIND TUNNEL.-- PRESSURE DATA

By Lynn W. Hunton and Joseph K. Dew

Ames Aeronautical Laboratory  
Moffett Field, Calif.

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AN INVESTIGATION OF A FULL-SCALE MODEL OF THE REPUBLIC  
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## SUMMARY

Wind-tunnel tests of a full-scale model of the Republic XF-91 airplane were conducted to determine the distribution of pressure over the external wing fuel tank installation and over the vee tail and ventral fin. The data were obtained for a range of angles of attack and sideslip and elerudder deflection angles; the presentation is in tabular form.

## INTRODUCTION

At the request of the Air Materiel Command, U. S. Air Force, an investigation of a full-scale model of the Republic XF-91 interceptor fighter having swept-back wings and a vee tail has been conducted in the Ames 40- by 80-foot wind tunnel. In reference 1 were reported the results of tests made to determine the general aerodynamic characteristics of the wing alone and of the wing-fuselage combination. In reference 2, the results of the stability and control tests of the complete model were presented.

Fuel for the four rockets used for take-off and for climb to combat altitude is stored in two relatively large jettisonable tanks mounted on struts beneath the wing. Since the interference and induction effects attendant with wing-tank installations of this type often



result in a rather low critical Mach number for the airplane, measurements were made of the distribution of pressure over the tank, support strut, and area of wing and fuselage in the vicinity of the tank. In addition, pressure measurements were made over the vee tail to provide data useful for a study of the critical speed of the airplane as affected by the tail juncture and for structural-design purposes. The results of these pressure-distribution tests are given herein in tabular form. No analysis or discussion of the results is presented.

## SYMBOLS

Symbols used in the present report are defined as follows:

- P static-pressure coefficient  $\left( \frac{p_l - p}{q} \right)$
- p free-stream static pressure, pounds per square foot
- $p_l$  local static pressure, pounds per square foot
- q free-stream dynamic pressure, pounds per square foot
- $\alpha$  geometric angle of attack of fuselage thrust axis with reference to wind-tunnel center line, degrees
- $\alpha_t$  angle of attack corrected to free-stream conditions, degrees  
(Measured with respect to the fuselage center line.)
- $\beta$  angle of sideslip, degrees  
(Right wing forward is the positive direction.)
- $\delta_e$  elerudder deflection angle measured in a plane perpendicular to the hinge line, degrees  
(Elerudder trailing edge down is the positive direction.)
- c local chord, feet

## DESCRIPTION OF MODEL AND APPARATUS

The model had swept-back ( $37.5^\circ$ ) and inversely tapered (1.63) wings, a swept-back vee tail, and was equipped with two external wing fuel tanks. A three-view drawing of the model is given in figure 1. Detailed dimensions of the complete model including the section ordinates for the wing are given in reference 2.



The jettisonable rocket-fuel tanks had a fineness ratio of 8.1 and were mounted on faired struts beneath the wings at 0.38-semispan locations. The angle of incidence of the tank to the wing-chord plane was  $-4^{\circ}$ . Tables of ordinates for the tanks and tank-strut fairings are given in table 1; detailed dimensions, orifice locations, and orifice-location keys are given in figure 2. The orifice locations for the area of the fuselage in the vicinity of the tank are shown in figure 3. All pressure measurements were made on and in the vicinity of the left tank.

The untapered vee tail was swept back  $40^{\circ}$  when projected on a horizontal plane, had  $38^{\circ}$  of dihedral, and had 30-percent-chord internally sealed and balanced elerudders. The effective balance area was 29 percent of the elerudder area aft of the hinge line. The orifices on the tail, as shown in figure 4, were located at 12 spanwise stations on the left surface. The tail-section ordinates are contained in table 1.

The left side of the ventral fin was instrumented with pressure orifices located at six fuselage stations as shown in figure 5.

#### TESTS AND RESULTS

The pressure measurements on the left tank, strut, and adjacent areas of wing and fuselage were made with all control and auxiliary lift devices neutral. These measurements were obtained through a range of angles of both attack and sideslip. For the pressure tests of the left tail and ventral fin the fuel tanks were removed from the model. Tests were made through a range of (1) angles of attack at fixed angles of sideslip, (2) angles of sideslip at fixed angles of attack, (3) angles of attack with fixed elerudder deflection angles and, (4) elerudder deflection angles at fixed angles of attack and sideslip.

All tests were made at a dynamic pressure of 40 pounds per square foot which corresponds to a test Reynolds number of  $11.5 \times 10^6$  (based on the wing mean aerodynamic chord of 10.59 ft). The wing and tail incidences with respect to the fuselage thrust axis were  $0^{\circ}$  for all tests.

The values of angle of attack given in the tables of this report have not been corrected for the effects of either tunnel-wall interference or the inclination of the air stream. The true angle of attack  $\alpha_t$  may be found in figure 6 wherein the corrected angle of attack is given as a function of the geometric angle of attack  $\alpha$ .

All the results are presented in the form of the pressure



coefficient P. Outlined in table 2 are the test conditions investigated together with the number of the table in which the data are given. Tables 3 and 4 contain the pressure data results pertaining to the fuel tank installation while in tables 5 through 10 are given the results of the pressure measurements over the tail and ventral fin.

Most of the tail and ventral-fin data were reduced to pressure-coefficient form by machine and are considered free from computation error. However, individual points are subject to personal errors in reading and key punching. All data have been spot checked, and lines have been drawn through the data believed to be doubtful.

The tail-strut support was attached to the fuselage just ahead of the ventral fin at fuselage station 417. Consequently, the flow over the lower portion of the ventral fin may have been spoiled to some extent.

Ames Aeronautical Laboratory,  
National Advisory Committee for Aeronautics,  
Moffett Field, Calif.

#### REFERENCES

1. Hunton, Lynn W. and Dew, Joseph K.: An Investigation of the Wing and the Wing-Fuselage Combination of a Full-Scale Model of the Republic XP-91 Airplane in the Ames 40- by 80-Foot Wind Tunnel. NACA RM No. SA8F09, 1948.
2. Hunton, Lynn W. and Dew, Joseph K.: Test of a Full-Scale Model of the Republic XF-91 Airplane in the Ames 40- by 80-Foot Wind Tunnel.- Force and Moment Data. NACA RM No. SA9C04, 1949.

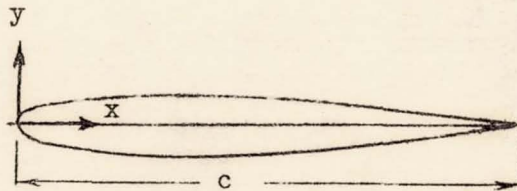


TABLE 1.- TANK, STRUT, AND VEE-TAIL SECTION DIMENSIONS

EXTERNAL TANK	
x/c Percent	Radius/c Percent
0	0
.096	.233
.192	.333
.385	.477
.769	.684
1.923	1.126
3.846	1.668
7.692	2.513
15.385	3.797
23.077	4.759
30.769	5.461
38.462	5.917
48.077	6.146
57.692	5.984
67.308	5.412
76.923	4.404
86.538	2.927
100.000	.000
L.E. Radius = 0.335 percent c	

TANK STRUT	
x/c Percent	y/c Percent
0	0
.5	.551
.75	.674
1.25	.868
2.5	1.218
5.0	1.695
7.5	2.040
10	2.315
20	3.031
30	3.389
40	3.500
50	3.392
60	3.079
70	2.572
80	1.881
90	1.017
100	0
L.E. Radius = 0.394 percent c T.E. Radius = 0	

VEE TAIL	
x/c Percent	y/c Percent
0	0
.5	.788
.75	.964
1.25	1.240
2.5	1.740
5.0	2.421
7.5	2.915
10	3.307
15	3.903
20	4.330
25	4.635
30	4.841
35	4.961
40	5.000
45	4.960
50	4.839
55	4.635
60	4.347
65	3.979
70	3.536
75	3.078
80	2.583
85	2.007
90	1.369
95	.605
96	.558
98	.280
100	0
L.E. Radius = 0.625 percent c T.E. Angle = 16.11°	



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TABLE 2.- INDEX TO PRESSURE-DISTRIBUTION DATA

Source of data	Variable	Fixed condition	Table No.
Tank, strut, and adjacent area	$\alpha$	$\beta = 0$	3
	$\beta$	$\alpha = 0$	4
Tail and ventral fin ↓	$\alpha$	$\beta = 0^\circ$	5(a)
	↓	$\beta = -4^\circ$	5(b)
	↓	$\beta = -8^\circ$	5(c)
	$\beta$	$\alpha = 0^\circ$	6(a)
	↓	$\alpha = 6^\circ$	6(b)
	↓	$\alpha = 12^\circ$	6(c)
	$\alpha_e$	$\delta_e = 8^\circ$	7(a)
	↓	$\delta_e = -8^\circ$	7(b)
	↓	$\delta_e = -16^\circ$	7(c)
	$\delta_e$	$\alpha = 0^\circ$ $\beta = 0^\circ$	8(a)
	↓	$\alpha = 6^\circ$ $\beta = 0^\circ$	8(b)
	↓	$\alpha = 12^\circ$ $\beta = 0^\circ$	8(c)
	↓	$\alpha = 0^\circ$ $\beta = -8^\circ$	9(a)
	↓	$\alpha = 12^\circ$ $\beta = -8^\circ$	9(b)
	↓	$\alpha = 0^\circ$ $\beta = 8^\circ$	10(a)
↓	$\alpha = 12^\circ$ $\beta = 8^\circ$	10(b)	



TABLE 3.- PRESSURE COEFFICIENTS OVER THE TANK, STRUT  
AND ADJACENT AREA FOR THE MODEL IN PITCH.  $\beta, 0^\circ$ .

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 1$	$\alpha = 2$	$\alpha = 3$	$\alpha = 4$	$\alpha = 5$	$\alpha = 6$
0-U-S	1.00	0.96	0.89	0.82	0.72	0.53	0.41	0.23
2.85-UI-S	-.48	-.20	-.08	.03	.13	.26	.35	.44
7.9-UI-S	-.53	-.33	-.26	-.18	-.09	0	.08	.15
15-I <sub>1</sub> -S	-.31	-.23	-.20	-.19	-.16	-.15	-.12	-.12
15-I <sub>5</sub> -S	-.53	-.41	-.36	-.31	-.26	-.18	-.13	-.08
75-UI-S	-.18	-.17	-.16	-.16	-.16	-.16	-.15	-.15
100-U-S	.08	.09	.09	.09	.09	.10	.11	.11
75-U0-S	-.31	-.27	-.26	-.23	-.22	-.21	-.18	-.16
40-U0-S	-.38	-.31	-.30	-.27	-.26	-.23	-.20	-.19
15-U0-S	-.49	-.35	-.32	-.28	-.22	-.19	-.13	-.09
7.9-U0-S	-.34	-.21	-.20	-.16	-.12	-.10	-.05	-.03
2.85-U0-S	-.30	-.19	-.22	-.20	-.19	-.19	-.15	-.13
15-UI-S	-.66	-.51	-.45	-.39	-.32	-.25	-.18	-.12
15-I <sub>2</sub> -S	-.05	-.03	-.03	-.01	-.01	-.01	-.01	-.01
15-I <sub>3</sub> -S	-.59	-.45	-.39	-.34	-.27	-.21	-.15	-.09
15-I <sub>4</sub> -S	-.53	-.41	-.35	-.30	-.24	-.18	-.12	-.08
40-UI-S	-.49		-.42	-.39	-.36	-.34	-.31	-.29
15-LI-S	-.51		-.32	-.27	-.22	-.15	-.11	-.05
0-L-S	1.00	.93	.88	.82	.74	.60	.51	.37
2.85-LI-S	-.42	-.23	-.12	-.05	.04	.15	.22	.29
7.9-LI-S	-.52	-.36	-.28	-.22	-.15	-.07	-.01	.05
40-LI-S	-.47	-.41	-.39	-.36	-.34	-.31	-.28	-.25
75-LI-S	-.21	-.19	-.19	-.18	-.18	-.18	-.16	-.16
100-L-S	.04	.07	.07	.08	.08	.08	.09	.09
75-L0-S	-.31	-.27	-.26	-.23	-.22	-.21	-.18	-.17
40-L0-S	-.47	-.37	-.34	-.31	-.27	-.25	-.20	-.17
15-L0-S	-.31	-.23	-.22	-.18	-.15	-.12	-.08	-.05
7.9-L0-S	-.27	-.21	-.20	-.18	-.16	-.15	-.12	-.11
2.85-L0-S	-.30	-.29	-.31	-.32	-.31	-.34	-.31	-.32
0-0-T	-.19	-.13	-.11	-.09	-.08	-.05	-.04	-.03
1.25-0-T	.31	.25	.23	.20	.18	.16	.13	.11
1.25-90-T	.08	.13	.15	.15	.16	.16	.16	.16
1.25-180-T	.04	.12	.13	.16	.19	.22	.24	.28
1.25-270-T	.21	.23	.23	.24	.23	.23	.23	.23
2.5-0-T	.21	.16	.16	.13	.11	.10	.08	.05
2.5-45-T	.12	.12	.12	.11	.11	.10	.08	.07
2.5-90-T	.03	.08	.08	.09	.09	.10	.09	.09
2.5-135-T	-.01	.04	.05	.08	.09	.11	.12	.13
2.5-180-T	-.01	.05	.07	.09	.12	.14	.16	.19

TABLE 3 - CONTINUED

ORIFICE	$\alpha = 8$	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	$\alpha = 16$	$\alpha = 18$	$\alpha = 20$
0-U-S	-0.29	-0.81	-1.40	-1.49	-0.83	-1.37	-1.13
2.85-UI-S	.60	.75	.85	.93	.97	.94	.95
7.9-UI-S	.29	.42	.53	.62	.71	.66	.67
15-I <sub>1</sub> -S	-.05	-.07	.08	.06	.09	.11	.14
15-I <sub>5</sub> -S	.01	.14	.23	.32	.39	.35	.36
75-UI-S	-.15	-.12	-.11	-.10	-.10	-.25	-.35
100-U-S	.10	.11	.11	.10	.06	-.20	-.35
75-U0-S	-.14	-.10	-.05	-.01	.01	-.08	-.11
40-U0-S	-.14	-.05	0.	.08	.16	.09	.08
15-U0-S	-.03	.07	.12	.24	.16	.23	.22
7.9-U0-S	.01	.10	.14	.08	-.07	.06	.02
2.85-U0-S	-.14	-.08	-.07	-.21	-.22	-.25	-.24
15-UI-S	0.	.12	.23	.33	.42	.37	.38
15-I <sub>2</sub> -S	0.	.01	.03	.03	.03	.02	.02
15-I <sub>3</sub> -S	.01	.14	.23	.33	.41	.37	.38
15-I <sub>4</sub> -S	.03	.14	.23	.33	.41	.37	.38
40-UI-S	-.25	-.18	-.12	-.07	-.03	-.11	-.16
15-LI-S	.04	.15	.25	.33	.41	.37	.38
0-L-S	-.07	-.41	-.88	-1.39	.14	-.52	-.63
2.85-LI-S	.45	.59	.70	.79	.84	.83	.84
7.9-LI-S	.18	.31	.42	.53	.59	.57	.57
40-LI-S	-.21	-.14	-.08	-.01	.03	-.05	-.08
75-LI-S	-.15	-.12	-.11	-.08	-.09	-.22	-.32
100-L-S	.10	.12	.12	.14	.12	.03	-.05
75-L0-S	-.14	.10	-.05	-.01	.01	-.06	-.11
40-L0-S	-.12	-.03	.03	.10	.17	.12	.13
15-L0-S	-.03	.05	.10	.15	-.01	.18	.19
7.9-L0-S	-.11	-.04	-.03	.01	-.16	-.05	.03
2.85-L0-S	-.40	-.37	-.38	-.39	-.19	-.45	-.46
0-0-T	-.04	.01	.05	.11	.13	.14	.16
1.25-0-T	.04	.01	-.04	-.08	-.13	-.14	-.16
1.25-90-T	.12	.12	.08	.04	-.04	-.06	-.11
1.25-180-T	.31	.38	.44	.50	.55	.60	.65
1.25-270-T	.21	.18	.14	.08	0.	-.05	-.10
2.5-0-T	0.	-.01	-.05	-.08	-.13	-.12	-.13
2.5-45-T	.03	-.01	-.04	-.10	-.16	-.18	-.22
2.5-90-T	.07	.05	.03	-.01	-.09	-.12	-.17
2.5-135-T	.15	.18	.19	.19	.20	.23	.24
2.5-180-T	.23	.29	.23	.37	.43	.49	.54



TABLE 3.- CONTINUED.

Orifice	$\alpha = -2$	$\alpha = 0$	$\alpha = 1$	$\alpha = 2$	$\alpha = 3$	$\alpha = 4$	$\alpha = 5$	$\alpha = 6$
2.5-225-T	0.03	0.09	0.11	0.12	0.15	0.16	0.18	0.20
2.5-270-T	.11	.15	.15	.16	.15	.15	.15	.15
2.5-315-T	.22	.19	.18	.16	.13	.12	.11	.09
7-0-T	.11	.08	.07	.05	.04	.03	.01	0
7-45-T	.04	.04	.04	.04	.04	.03	.03	.01
7-90-T	-.01	.03	.03	.03	.04	.03	.04	.03
7-135-T	.44	.56	.51	.36	.46	.44	.45	.44
7-180-T	-.03	.03	.04	.05	.08	.08	.11	.12
7-225-T	-.01	.03	.04	.07	.08	.10	.11	.12
7-270-T	.03	.07	.07	.08	.08	.08	.08	.08
7-315-T	.11	.11	.11	.09	.08	.07	.04	.04
10-0-T	.11	.08	.08	.07	.05	.04	.03	.03
10-45-T	.01	.04	.04	.04	.03	.03	.03	.01
10-90-T	-.03	.03	.03	.03	.03	.03	.03	.03
10-135-T	-.04	.01	.03	.04	.04	.05	.05	.07
10-180-T	-.01	.03	.03	.05	.07	.08	.09	.11
10-225-T	-.03	.03	.04	.07	.08	.10	.11	.12
10-270-T	.01	.05	.05	.07	.05	.07	.07	.05
10-315-T	.08	.07	.05	.05	.04	.03	.01	0
20.5-0-T	.03	.01	.01	.01	.01	0	0	0
25-0-T	.04	.04	.04	.04	.04	.04	.04	.04
25-45-T	-.07	-.04	-.03	-.03	-.03	-.01	-.01	-.01
25-90-T	.51	.80	.80	.78	.78	.79	.78	.77
25-135-T	-.05	-.03	-.01	-.01	0	0	.01	.01
25-180-T	-.07	-.04	-.03	-.01	0	.01	.03	.04
25-225-T	-.10	-.04	-.03	-.01	.01	.03	.04	.07
25-270-T	-.10	-.04	-.01	0	.03	.04	.04	.05
25-315-T	-.03	0	.01	.03	.03	.04	.04	.04
30-0-T	.03	.04	.05	.07	.07	.08	.09	.11
36-0-T	.25	.25	.26	.24	.24	.23	.23	.23
36-340-T	.16	.25	.30	.32	.35	.38	.39	.41
39-A0-T	-.27	-.23	-.23	-.22	-.19	-.19	-.18	-.16
39-45-T	-.19	-.12	-.11	-.08	-.05	-.04	0	.01
39-90-T	-.19	-.12	-.11	-.08	-.07	-.05	-.04	-.04
39-135-T	-.12	-.08	-.05	-.04	-.03	-.03	-.01	-.01
39-225-T	-.22	-.16	-.13	-.11	-.09	-.07	-.04	-.01
39-270-T	-.30	-.20	-.16	-.13	-.09	-.07	-.03	0
39-315-T	-.34	-.21	-.15	-.11	-.05	.01	.05	.11
39-AI-T	-.45	-.28	-.20	-.15	-.08	.01	.09	.16
42-AI-T	-.49	-.36	-.28	-.24	-.18	-.11	-.05	0

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TABLE 3.-- CONTINUED

Orifice	$\alpha = 8$	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	$\alpha = 16$	$\alpha = 18$	$\alpha = 20$
2.5-225-T	0.22	0.25	0.26	0.28	0.28	0.29	0.29
2.5-270-T	.12	.10	.08	.02	-.07	-.11	-.16
2.5-315-T	.04	0	-.04	-.10	-.17	-.20	-.22
7-0-T	-.04	-.05	-.08	-.10	-.12	-.11	-.10
7-45-T	-.03	-.03	-.05	-.10	-.16	-.15	-.17
7-90-T	.01	0	-.04	-.08	-.16	-.18	-.22
7-135-T	.41	.42	.42	.42	.42	.42	.43
7-180-T	.15	.21	.23	.28	.33	.37	.41
7-225-T	.14	.16	.18	.18	.17	.18	.19
7-270-T	.05	.03	0	-.06	-.13	-.17	-.21
7-315-T	0	-.03	-.07	-.11	-.17	-.17	-.19
10-0-T	-.01	-.03	-.04	-.06	-.09	-.05	-.03
10-45-T	-.01	-.04	-.07	-.11	-.17	-.15	-.16
10-90-T	-.01	-.03	-.05	-.13	-.19	-.22	-.25
10-135-T	.07	.10	.10	.10	.09	.11	.13
10-180-T	.15	.19	.23	.26	.32	.35	.38
10-225-T	.14	.16	.16	.18	.17	.18	.19
10-270-T	.03	.01	-.03	-.08	-.17	-.18	-.22
10-315-T	-.04	-.05	-.10	-.14	-.19	-.18	-.19
20.5-0-T	-.01	-.01	0	0	0	.06	.10
25-0-T	.04	.05	.07	.08	.10	.17	.19
25-45-T	-.03	-.03	-.03	-.04	-.04	.02	.03
25-90-T	.51	.52	-.52	.53	.54	.55	.57
25-135-T	.01	.03	.01	.01	-.01	.02	.02
25-180-T	.07	.11	.15	.18	.22	.26	.27
25-225-T	.10	.14	.15	.18	.20	.22	.24
25-270-T	.05	.07	.05	.03	-.03	0	0
25-315-T	.03	.03	.01	0	-.04	.03	.03
30-0-T	.11	.14	.15	.18	.20	.26	.27
36-0-T	.16	.16	.11	.04	.14	.15	.14
36-340-T	.51	.47	.45	.42	.39	.38	.33
39-A0-T	-.16	-.12	-.11	-.06	-.16	-.15	-.11
39-45-T	.03	.07	.08	.07	.03	.05	.05
39-90-T	-.04	-.01	-.03	-.03	-.04	-.01	-.01
39-135-T	-.01	0	0	0	-.01	.01	.01
39-225-T	.01	.07	.12	.17	.20	.18	.19
39-270-T	.07	.12	.18	.24	.26	.25	.25
39-315-T	.19	.29	.36	.43	.46	.46	.46
39-AI-T	.29	.44	.55	.65	.71	.69	.70
42-AI-T	.11	.22	.31	.42	.48	.46	.46



ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 1$	$\alpha = 2$	$\alpha = 3$	$\alpha = 4$	$\alpha = 5$	$\alpha = 6$
45-AI-T	-0.32	-0.25	-0.23	-0.20	-0.19	-0.15	-0.12	-0.09
45-315-T	-.43	-.36	-.32	-.27	-.23	-.19	-.12	-.08
45-270-T	-.34	-.28	-.24	-.20	-.18	-.15	-.11	-.07
45-225-T	-.28	-.25	-.23	-.20	-.19	-.16	-.13	-.11
45-135-T	-.35	-.29	-.68	-.26	-.23	-.20	-.17	-.15
45-90-T	-.27	-.22	-.20	-.18	-.15	-.13	-.11	-.09
45-40-T	-.32	-.26	-.23	-.19	-.16	-.12	-.08	-.05
45-0-T	-.34	-.28	-.26	-.22	-.19	-.15	-.11	-.05
39-180-T	-.05	-.01	0	.01	.03	.04	.05	.07
42-A0-T	-.27	-.22	-.22	-.18	-.15	-.13	-.09	-.05
52-A0-T	-.41	-.24	-.32	-.28	-.24	-.20	-.17	-.13
52-45-T	-.35	-.29	-.27	-.23	-.20	-.18	-.13	-.09
52-90-T	-.32	-.28	-.26	-.23	-.20	-.18	-.16	-.13
52-135-T	-.32	-.29	-.28	-.26	-.26	-.23	-.23	-.20
100-0-T	.01	.03	.03	.03	.04	.04	.04	.04
52-225-T	-.35	-.30	-.28	-.27	-.26	-.23	-.21	-.20
52-270-T	-.38	-.32	-.30	-.27	-.26	-.23	-.20	-.18
52-315-T	-.42	-.38	-.35	-.32	-.30	-.27	-.23	-.20
52-AI-T	-.46	-.41	-.38	-.35	-.32	-.30	-.25	-.23
60-A0-T	-.38	-.33	-.31	-.28	-.26	-.23	-.20	-.18
60-AI-T	-.35	-.33	-.32	-.30	-.28	-.27	-.25	-.24
70-A0-T	-.24	-.21	-.20	-.19	-.16	-.15	-.13	-.12
70-45-T	-.22	-.20	-.19	-.18	-.15	-.13	-.12	-.11
70-90-T	-.16	-.14	-.13	-.13	-.12	-.11	-.09	-.08
70-180-T	-.13	-.13	-.12	-.12	-.11	-.09	-.08	-.07
70-225-T	-.07	-.05	-.05	-.05	-.04	-.04	-.03	-.03
70-135-T	-.16	-.14	-.13	-.13	-.12	-.12	-.11	-.09
70-270-T	-.13	-.12	-.12	-.12	-.11	-.11	-.11	-.09
70-315-T	-.15	-.14	-.13	-.13	-.13	-.12	-.12	-.12
70-AI-T	-.16	-.16	-.15	-.15	-.15	-.13	-.13	-.13
80-340-T	.03	.03	.03	.05	.05	.05	.05	.07
80-0-T	.01	.01	.03	.03	.04	.04	.04	.05
90-0-T	.03	.04	.04	.04	.05	.05	.05	.07
90-45-T	.04	.04	.04	.04	.05	.04	.04	.04
90-90-T	0	0	0	0	.01	.01	.01	.01
90-135-T	0	0	0	0	.01	.01	.03	.03
90-180-T	0	0	0	0	.01	.01	.03	.03
90-225-T	0	0	0	0	.01	.01	.03	.03

TABLE 3 - CONTINUED

ORIFICE	$\alpha = 8$	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	$\alpha = 16$	$\alpha = 18$	$\alpha = 20$
45-AI-T	-0.07	-0.01	0.04	0.11	0.16	0.17	0.17
45-315-T	-.01	.05	.13	.18	.22	.18	.17
45-270-T	-.01	.04	.10	.15	.19	.17	.16
45-225-T	-.05	-.01	.04	.10	.13	.12	.11
45-135-T	-.12	-.08	-.07	-.07	-.07	-.06	-.05
45-90-T	-.07	-.04	-.03	-.01	-.01	0	.02
45-40-T	-.01	.03	.01	0	-.09	-.09	-.06
45-0-T	-.01	.05	.11	.15	.12	.18	.17
39-180-T	.08	.11	.14	.17	.19	.18	.21
42-A0-T	-.01	.04	.08	.11	-.09	.06	.10
52-A0-T	-.07	0	.06	.13	.20	.15	.14
52-45-T	-.05	0	0	0	-.04	-.02	-.05
52-90-T	-.11	-.05	-.03	0	.03	.02	.02
52-135-T	-.20	-.19	-.19	-.19	-.23	-.25	-.27
100-0-T	.05	.05	.06	.07	.07	.03	.02
52-225-T	-.16	-.12	-.08	-.06	-.03	-.06	-.08
52-270-T	-.13	-.08	-.04	.01	.04	0	-.03
52-315-T	-.15	-.08	-.03	.04	.09	.02	-.02
52-AI-T	-.16	-.11	-.04	.01	.07	.02	-.02
60-A0-T	-.12	-.07	-.03	.03	.09	.03	.02
60-AI-T	-.20	-.16	-.13	-.08	-.07	-.15	-.22
70-A0-T	-.08	-.05	-.03	0 0	.03	-.06	-.10
70-45-T	-.07	-.04	0	.03	0	-.06	-.13
70-90-T	-.05	-.04	-.03	0	0	-.05	-.06
70-180-T	-.04	-.03	0	.01	.01	-.02	-.08
70-225-T	0	0	0	.01	.01	-.02	-.05
70-135-T	-.07	-.04	-.03	0	.01	-.05	-.08
70-270-T	-.08	-.07	-.06	-.04	-.04	-.15	-.25
70-315-T	-.09	-.08	-.07	-.06	-.06	-.18	-.30
70-AI-T	-.11	-.10	-.11	-.07	-.07	-.22	-.32
80-340-T	.07	.08	.10	.10	.09	-.02	-.10
80-0-T	.07	.08	.08	.08	.07	-.03	-.11
90-0-T	.08	.08	.08	.08	.07	.02	-.05
90-45-T	.05	.07	.08	.08	.07	0	-.06
90-90-T	.04	.05	.06	.07	.07	-.03	-.11
90-135-T	.04	.05	.06	.07	.06	-.03	-.08
90-180-T	.04	.05	.06	.07	.04	-.06	-.11
90-225-T	.05	.05	.07	.08	.06	-.08	-.21



TABLE 3 - CONTINUED

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 1$	$\alpha = 2$	$\alpha = 3$	$\alpha = 4$	$\alpha = 5$	$\alpha = 6$
90-270-T	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05
90-315-T	.04	.04	.05	.05	.05	.07	.07	.07
99-F	-.09	-.03	.01	.05	.08	.09	.13	.15
103-F	-.20	-.13	-.08	-.05	-.01	.01	.04	.08
106-F	-.24	-.17	-.12	-.08	-.04	0	.04	.08
108-F	-.30	-.23	-.18	-.15	-.09	-.08	-.03	0
109-F	-.30	-.24	-.20	-.16	-.13	-.09	-.07	-.03
114-F	-.30	-.27	-.23	-.20	-.18	-.15	-.12	-.08
1-15W-L	-.24	-.12	-.04	.01	.08	.12	.20	.25
1-20W-L	-.24	-.13	-.07	-.01	.04	.09	.15	.20
1-25W-L	-.26	-.16	-.11	-.05	0	.04	.11	.15
1-30W-L	-.30	-.20	-.15	-.08	-.04	0	.04	.09
1-40W-L	-.34	-.25	-.20	-.16	-.12	-.08	-.03	.01
1-50W-L	-.35	-.29	-.24	-.20	-.16	-.13	-.09	-.05
1-60W-L	-.35	-.31	-.27	-.24	-.20	-.18	-.15	-.11

TABLE 3 -- CONCLUDED

ORIFICE	$\alpha = 8$	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	$\alpha = 16$	$\alpha = 18$	$\alpha = 20$
90-270-T	0.07	0.08	0.08	0.10	0.09	-0.05	-0.14
90-315-T	.08	.10	.10	.11	.09	0	-.08
99-F	.18	.19	.22	.25	.25	.28	.30
103-F	.11	.17	.22	.28	.33	.34	.33
106-F	.12	.19	.25	.33	.38	.38	.36
108-F	.04	.10	.14	.21	.25	.23	.21
109-F	.04	.11	.17	.24	.26	.25	.22
114-F	-.04	.01	.07	.15	.20	.15	.11
1-15W-L	.34	.43	.51	.61	.70	.71	.70
1-20W-L	.29	.37	.44	.54	.62	.63	.62
1-25W-L	.22	.31	.39	.50	.55	.55	.54
1-30W-L	.16	.25	.33	.42	.49	.49	.48
1-40W-L	.08	.15	.24	.32	.39	.38	.36
1-50W-L	0	.07	.14	.22	.29	.26	.24
1-60W-L	-.07	0	.06	.14	.19	.15	.11



TABLE 4.- PRESSURE COEFFICIENTS OVER THE TANK, STRUT,  
AND ADJACENT AREA FOR THE MODEL IN SIDESLIP.  $\alpha, 0^\circ$ .

ORIFICE	$\beta = -4$	$\beta = -2$	$\beta = -1$	$\beta = 0$	$\beta = 1$	$\beta = 2$	$\beta = 4$
0-U-S	0.95	1.00	1.00	0.96	0.87	0.78	0.44
2.85-UI-S	-.60	-.38	-.29	-.19	-.09	-.04	.14
7.9-UI-S	-.58	-.45	-.47	-.34	-.27	-.23	-.11
15-I <sub>1</sub> -S	-.25	-.27	-.27	-.26	-.28	-.28	-.29
15-I <sub>5</sub> -S	-.55	-.48	-.45	-.42	-.38	-.35	-.29
75-UI-S	-.16	-.16	-.16	-.16	-.16	-.16	-.16
100-U-S	.10	.10	.10	.09	.09	.09	.10
75-U0-S	-.26	-.26	-.26	-.26	-.26	-.26	-.26
40-U0-S	-.29	-.30	-.31	-.31	-.31	-.31	-.33
15-U0-S	-.23	-.30	-.34	-.36	-.41	-.43	-.48
7.9-U0-S	-.04	-.15	-.19	-.24	-.28	-.32	-.45
2.85-U0-S	.10	-.07	-.14	-.22	-.31	-.39	-.58
15-UI-S	-.66	-.58	-.55	-.51	-.47	-.43	-.36
15-I <sub>2</sub> -S	-.03	-.03	-.03	-.03	-.03	-.03	-.03
15-I <sub>3</sub> -S	-.59	-.52	-.49	-.45	-.41	-.38	-.31
15-I <sub>4</sub> -S	-.53	-.47	-.44	-.41	-.36	-.34	-.27
40-UI-S	-.47	-.45	-.45	-.43	-.43	-.42	-.41
15-LI-S	-.51	-.44	-.41	-.38	-.27	-.31	-.25
0-L-S	.93	1.01	1.00	.93	.81	.68	.18
2.85-LI-S	-.62	-.40	-.30	-.22	-.11	-.05	-.14
7.9-LI-S	-.58	-.45	-.41	-.35	-.28	-.26	-.15
40-LI-S	-.44	-.42	-.42	-.41	-.41	-.39	-.37
75-LI-S	-.18	-.19	-.19	-.19	-.19	-.19	-.19
100-L-S	.07	.07	.07	.07	.05	.07	.07
75-L0-S	-.27	-.27	-.27	-.27	-.27	-.27	-.26
40-L0-S	-.33	-.29	-.37	-.38	-.38	-.39	-.40
15-L0-S	-.11	-.18	-.22	-.24	-.27	-.28	-.34
7.9-L0-S	-.03	-.14	-.18	-.22	-.27	-.30	-.40
2.85-L0-S	.08	-.11	-.22	-.31	-.42	-.49	-.67
0-0-T	-.14	-.14	-.14	-.12	-.15	-.13	-.15
1.25-0-T	.30	.29	.27	.26	.24	.23	.18
1.25-90-T	.22	.16	.15	.14	.11	.09	.05
1.25-180-T	.08	.10	.11	.11	.11	.11	.11
1.25-270-T	.15	.19	.22	.24	.27	.27	.31
2.5-0-T	.22	.19	.19	.18	.16	.15	.11
2.5-45-T	.22	.16	.15	.12	.09	.08	.04
2.5-90-T	.14	.10	.08	.07	.05	.04	0
2.5-135-T	.05	.05	.04	.04	.03	.03	0
2.5-180-T	.03	.04	.04	.05	.05	.05	.04

TABLE 4.-- CONTINUED

Orifice	$\beta = -4$	$\beta = -2$	$\beta = -1$	$\beta = 0$	$\beta = 1$	$\beta = 2$	$\beta = 4$
2.5-225-T	0.04	0.05	0.08	0.09	0.09	0.11	0.12
2.5-270-T	.07	.11	.12	.15	.16	.18	.22
2.5-315-T	.15	.18	.19	.20	.19	.20	.21
7-0-T	.11	.10	.10	.08	.07	.05	.01
7-45-T	.12	.08	.04	.05	.05	.01	-.01
7-90-T	.05	.04	.03	.01	0	-.01	-.03
7-135-T	.22	.23	.26	.39	.36	.32	.29
7-180-T	.03	.03	.04	.01	.01	0	.01
7-225-T	0	0	.01	.03	.03	.04	.05
7-270-T	.01	.04	.05	.07	.08	.09	.11
7-315-T	.07	.08	.10	.12	.12	.12	.11
10-0-T	.12	.11	.10	.09	.08	.07	.03
10-45-T	.10	.07	.05	.04	.03	.01	-.03
10-90-T	.05	.04	.03	.03	.01	0	-.03
10-135-T	.01	.01	0	0	.01	0	-.03
10-180-T	.01	.01	.01	.03	.03	.01	0
10-225-T	.03	.03	.03	.03	.03	.04	.04
10-270-T	0	.03	.04	.05	.05	.07	.10
10-315-T	.04	.05	.07	.07	.07	.07	.07
20.5-0-T	.04	.03	.03	.03	.01	0	-.03
25-0-T	.05	.05	.04	.04	.03	.03	0
25-45-T	.01	-.01	-.03	-.04	-.05	-.07	-.08
25-90-T	.77	.78	.78	.78	.78	.77	.78
25-135-T	-.01	-.01	-.01	-.03	-.03	-.04	-.05
25-180-T	-.04	-.04	-.04	-.04	-.04	-.04	-.05
25-225-T	-.07	-.05	-.05	-.04	-.04	-.04	-.03
25-270-T	-.08	-.05	-.04	-.03	-.03	-.01	.01
25-315-T	-.03	-.01	0	.01	.01	.01	.03
30-0-T	.05	.05	.05	.05	.04	.03	.01
36-0-T	.36	.31	.29	.24	.22	.18	.07
36-340-T	.10	.19	.23	.26	.30	.30	.33
39-A0-T	.01	-.12	-.18	-.24	-.30	-.34	-.48
39-45-T	-.03	-.08	-.11	-.12	-.15	-.16	-.19
39-90-T	-.08	-.11	-.11	-.12	-.13	-.13	-.15
39-135-T	-.03	-.04	-.05	-.07	-.09	-.09	-.14
39-225-T	-.18	-.16	-.16	-.15	-.15	-.15	-.14
39-270-T	-.26	-.23	-.22	-.20	-.19	-.18	-.15
39-315-T	-.36	-.27	-.25	-.20	-.16	-.13	-.07
39-AI-T	-.55	-.41	-.34	-.27	-.20	-.16	-.04
42-AI-T	-.51	-.42	-.41	-.35	-.31	-.28	-.21



TABLE 4 — CONTINUED

ORIFICE	$\beta = .4$	$\beta = .2$	$\beta = .1$	$\beta = 0$	$\beta = 1$	$\beta = 2$	$\beta = 4$
45-AI-T	-0.27	-0.27	-0.26	-0.23	-0.26	-0.26	-0.26
45-315-T	-.44	-.39	-.38	-.23	-.32	-.31	-.27
45-270-T	-.31	-.28	-.28	-.23	-.26	-.24	-.23
45-225-T	-.27	-.26	-.26	-.23	-.26	-.24	-.24
45-135-T	-.26	-.28	-.28	-.23	-.31	-.31	-.32
45-90-T	-.19	-.20	-.22	-.23	-.23	-.23	-.23
45-40-T	-.19	-.22	-.24	-.23	-.28	-.28	-.30
45-0-T	-.16	-.23	-.26	-.23	-.31	-.31	-.35
39-180-T	-.05	-.03	-.01	-.27	-.01	-.01	-.03
42-A0-T	-.08	-.16	-.19	-.24	-.27	-.28	-.34
52-A0-T	-.29	-.32	-.32	-.30	-.36	-.36	-.38
52-45-T	-.25	-.27	-.28	-.22	-.31	-.30	-.31
52-90-T	-.27	-.27	-.27	-.26	-.27	-.27	-.27
52-135-T	-.29	-.30	-.28	-.27	-.31	-.30	-.32
100-0-T	0	.01	.03	-.24	.01	0	-.03
52-225-T	-.30	-.30	-.30	.24	-.30	-.30	-.30
52-270-T	-.33	-.32	-.32	0	-.31	-.30	-.30
52-315-T	-.41	-.39	-.39	-.23	-.36	-.35	-.24
52-AI-T	-.45	-.42	-.42	-.34	-.39	-.38	-.36
60-A0-T	-.30	-.32	-.32	-.28	-.34	-.32	-.32
60-AI-T	-.34	-.32	-.34	-.27	-.32	-.31	-.31
70-A0-T	-.22	-.22	-.22	-.28	-.22	-.20	-.20
70-45-T	-.19	-.20	-.20	.03	-.20	-.19	-.19
70-90-T	-.18	-.16	-.16	-.30	-.15	-.15	-.13
70-180-T	-.14	-.13	-.13	-.31	-.12	-.12	-.13
70-225-T	-.07	-.05	-.05	-.36	-.05	-.05	-.05
70-135-T	-.14	-.13	-.13	-.41	-.15	-.15	-.15
70-270-T	-.11	-.12	-.12	-.32	-.12	-.13	-.13
70-315-T	-.14	-.13	-.13	-.32	-.15	-.15	-.15
70-AI-T	-.15	-.15	-.15	-.22	-.15	-.15	-.16
80-340-T	.04	.03	.03	-.20	.03	.03	-.16
80-0-T	.01	.01	.01	-.15	.01	.03	-.16
90-0-T	.03	.04	.04	-.12	.04	.04	-.16
90-45-T	.03	.04	.04	-.07	.03	.03	0
90-90-T	.03	.01	.01	-.15	0	-.01	-.01
90-135-T	-.01	0	0	-.12	0	0	-.01
90-180-T	-.01	0	0	-.15	0	0	0
90-225-T	-.01	0	0	-.15	0	0	.01

TABLE 4 - CONCLUDED

ORIFICE	$\beta = -4$	$B = -2$	$\beta = -1$	$\beta = 0$	$\beta = 1$	$\beta = 2$	$\beta = 4$
90-270-T	0	0.01	0.01	0.03	0.03	0.04	0.03
90-315-T	0.07	.04	.04	.01	.04	.04	.03
99-F	-.03	-.04	-.01	-.01	-.01	0	.01
103-F	-.15	-.15	-.12	-.12	-.11	-.11	-.08
106-F	-.21	-.19	-.16	-.16	-.15	-.13	-.11
108-F	-.25	-.25	-.22	-.22	-.20	-.19	-.16
109-F	-.26	-.26	-.23	-.23	-.22	-.22	-.18
114-F	-.27	-.27	-.26	-.26	-.24	-.23	-.22
1-15W-L	-.14	-.14	-.09	-.11	-.09	-.08	-.05
1-20W-L	-.15	-.15	-.12	-.12	-.11	-.09	-.07
1-25W-L	-.19	-.19	-.15	-.16	-.13	-.13	-.09
1-30W-L	-.23	-.23	-.20	-.21	-.18	-.16	-.13
1-40W-L	-.29	-.29	-.24	-.25	-.23	-.22	-.19
1-50W-L	-.31	-.31	-.28	-.29	-.26	-.26	-.22
1-60W-L	-.33	-.33	-.30	-.30	-.28	-.27	-.24



TABLE 5. - PRESSURE COEFFICIENTS OVER THE BAIL FOR THE MODEL IN PITCH, CLEAN CONDITION;  $\delta_p, 0^\circ$ . (a)  $\beta, 0^\circ$ .

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$
1-0C	.31	.31	.39	3-1.25U	.35	.18	.01
1-1.25U	.46	.36	.27	3-8U	.01	.08	.18
1-2.5U	.34	.26	.19	3-14U	-	.14	.20
1-5U	.22	.15	.09	3-19U	-	.15	.22
1-8U	.12	.08	.04	3-32U	-	.16	.19
1-14J	.08	.03	.01	3-60U	-	.12	.14
1-19U	- 0	.04	.07	3-70U	-	.08	.11
1-32U	.04	.08	.11	3-95U	-	.04	.04
1-70U	.16	.16	.18	3-1.25L	-	.34	.08
1-80U	.09	.09	.09	3-2.5L	-	.39	.05
1-90U	.07	.05	.05	3-5L	-	.49	.15
1-95U	.04	.03	.01	3-8L	-	.31	.11
1-2.5L	.45	.30	.19	3-14L	-	.28	.15
1-5L	.41	.28	.20	3-32L	-	.23	.16
1-14L	.27	.20	.15	3-38L	-	.26	.18
1-19L	.26	.20	.15	3-60L	-	.20	.16
1-32L	.18	.14	.11	3-80L	-	.07	.05
1-38L	.22	.18	.15	3-95L	-	.07	.05
1-60L	.19	.16	.15	4-0C	.55	.69	.70
1-70L	.15	.14	.12	4-1.25U	.32	.14	.05
1-80L	.09	.08	.08	4-2.5U	.19	.04	.12
2-1.25U	.35	.32	.27	4-14U	-	.09	.30
2-2.5U	.23	.09	.04	4-19U	-	.11	.22
2-5U	.09	0	.11	4-32U	-	.12	.07
2-32U	.08	.12	.15	4-38U	-	.14	.19
2-38U	.18	.22	.24	4-60U	-	.18	.22
2-44U	.04	.07	.09	4-70U	-	.01	.03
2-70U	.07	.09	.11	4-90U	.01	0	0
2-80U	.05	.05	.07	4-95U	.05	.05	.05
2-95U	.05	.05	.05	4-100C	.15	.15	.14
2-100C	.09	.09	.08	4-2.5L	.34	.16	0
2-1.25L	.43	.19	0	4-5L	.32	.20	.08
2-2.5L	.43	.26	.11	4-8L	.26	.16	.07
2-5L	.45	.30	.19	4-14L	.34	.26	.19
2-14L	.30	.24	.18	4-19L	.31	.24	.19
2-32L	.24	.20	.16	4-32L	.22	.18	.14
2-38L	.26	.22	.18	4-38L	.22	.23	.19
2-44L	.23	.20	.18	4-44L	.23	.20	.18
2-70L	.11	.08	.07	4-60L	.18	.15	.14
2-95L	.05	.05	.04	4-80L	.09	.04	.03



TABLE 5. -- CONTINUED  
(a) Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
1-0C	.39	.39	.42	3-1.25U	0	.22	.46
1-1.25U	.23	.23	.24	3-8U	0	.27	.36
1-2.5U	.15	.15	.15	3-14U	0	.27	.34
1-5U	.07	.04	.04	3-19U	0	.27	.32
1-8U	0	.03	.04	3-32U	0	.22	.26
1-14J	.04	.07	.08	3-60U	0	.15	.18
1-19U	.11	.14	.16	3-70U	0	.12	.14
1-32U	.14	.18	.19	3-95U	0	.04	.04
1-70U	.18	.18	.18	3-1.25L	0	.24	.38
1-80U	.11	.12	.12	3-2.5L	0	.09	.22
1-90U	.07	.07	.08	3-5L	0	.05	.07
1-95U	0	.01	.01	3-8L	0	.05	.04
1-2.5L	.15	.16	.19	3-14L	0	.11	.03
1-5L	.15	.15	.15	3-32L	0	.14	.08
1-14L	.11	.08	.05	3-38L	0	.16	.11
1-19L	.11	.08	.05	3-60L	0	.15	.12
1-32L	.07	.04	.01	3-80L	0	.04	.04
1-38L	.12	.08	.05	3-95L	0	.05	.04
1-60L	.12	.09	.08	4-0C	0	.64	.45
1-70L	.11	.09	.07	4-1.25U	0	.27	.53
1-80L	.07	.05	.04	4-2.5U	0	.28	.50
2-1.25U	.19	.07	.04	4-14U	0	.36	.46
2-2.5U	.18	.34	.45	4-19U	0	.27	.45
2-5U	.22	.32	.39	4-32U	0	.23	.27
2-32U	.18	.22	.23	4-38U	0	.22	.26
2-38U	.27	.30	.31	4-60U	0	.23	.24
2-44U	.11	.14	.15	4-70U	0	.08	.09
2-70U	.12	.12	.12	4-90U	0	0	0
2-80U	.07	.07	.07	4-95U	0	.05	.05
2-95U	.05	.04	.03	4-100C	0	.14	.12
2-100C	.07	.04	.01	4-2.5L	0	.14	.26
2-1.25L	.18	.31	.36	4-5L	0	.01	.12
2-2.5L	.03	.16	.23	4-8L	0	.01	.09
2-5L	.08	.03	.09	4-14L	0	.12	.05
2-14L	.11	.04	.01	4-19L	0	.12	.07
2-32L	.12	.08	.05	4-32L	0	.09	.05
2-38L	.15	.11	.07	4-38L	0	.16	.12
2-44L	.15	.11	.07	4-44L	0	.14	.11
2-70L	.05	.03	.01	4-60L	0	.12	.09
2-95L	.04	.03	.01	4-80L	0	.03	.01

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TABLE 5. -- CONTINUED  
(a) -- Continued

ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	
1-0C	.46	.49	.51	3-1.25U	-	.92	1.16	1.33
1-1.25U	.26	.24	.22	3-8U	-	.51	.59	.64
1-2.5U	.15	.14	.12	3-14U	-	.45	.49	.52
1-5U	.04	.04	.01	3-19U	-	.41	.45	.47
1-8U	-	.04	.05	3-32U	-	.31	.32	.34
1-14J	-	.09	.09	3-60U	-	.19	.18	.18
1-19U	-	.18	.18	3-70U	-	.14	.11	.08
1-32U	-	.20	.22	3-95U	-	.04	.03	.01
1-70U	-	.18	.19	3-1.25L	-	.55	.58	.47
1-80U	-	.12	.14	3-2.5L	-	.39	.45	.41
1-90U	-	.08	.08	3-5L	-	.23	.28	.30
1-95U	-	.01	.01	3-8L	-	.18	.23	.25
1-2.5L	-	.19	.16	3-14L	-	.08	.14	.16
1-5L	-	.16	.14	3-32L	-	.01	.03	.05
1-14L	-	.05	.04	3-38L	-	.05	.01	.01
1-19L	-	.04	.03	3-60L	-	.08	.05	.03
1-32L	.01	.03	.04	3-80L	-	.01	.01	0
1-38L	-	.04	.01	3-95L	-	.04	.03	.03
1-60L	-	.05	.04	4-0C	-	.18	.61	1.11
1-70L	-	.05	.03	4-1.25U	-	1.01	1.22	1.44
1-80L	-	.03	.03	4-2.5U	-	.86	.95	1.11
2-1.25U	-	.14	.22	4-14U	-	.55	.61	.66
2-2.5U	-	.47	.50	4-19U	-	.43	.46	.51
2-5U	-	.41	.43	4-32U	-	.34	.35	.37
2-32U	-	.26	.28	4-38U	-	.30	.31	.34
2-38U	-	.31	.32	4-60U	-	.26	.26	.25
2-44U	-	.16	.19	4-70U	-	.12	.12	.11
2-70U	-	.14	.16	4-90U	-	0	0	0
2-80U	-	.08	.09	4-95U	-	.05	.05	.05
2-95U	.03	.01	0	4-100C	-	.11	.09	.08
2-100C	.01	0	.01	4-2.5L	-	.43	.50	.55
2-1.25L	.32	.31	.26	4-5L	-	.28	.35	.40
2-2.5L	.24	.24	.22	4-8L	-	.22	.26	.32
2-5L	.15	.16	.18	4-14L	-	.07	.11	<del>1.218</del>
2-14L	.05	.09	.12	4-19L	-	.03	.08	.12
2-32L	-	.01	.03	4-32L	-	0	.04	.07
2-38L	-	.03	0	4-38L	-	.05	.03	0
2-44L	-	.04	.01	4-44L	-	.05	.03	0
2-70L	-	.03	.04	4-60L	-	.05	.04	.11
2-95L	.01	.01	.03	4-80L	-	0	0	.01

TABLE 5.- CONTINUED  
(a) - Continued

ORIFICE	$\alpha = 15$	$\alpha = 16$	$\alpha = 17$	ORIFICE	$\alpha = 15$	$\alpha = 16$	$\alpha = 17$
1-0C	0.50	0.54	0.61	3-1.25U	-1.37	-1.30	-1.22
1-1.25U	.25	.17	.21	3-8U	-.62	-.62	-.63
1-2.5U	.14	.09	.09	3-14U	-.51	-.52	-.51
1-5U	.03	-.03	-.03	3-19U	-.46	-.46	-.48
1-8U	-.06	-.10	-.10	3-32U	-.33	-.35	-.36
1-14J	-.11	-.14	-.15	3-60U	-.18	-.20	-.21
1-19U	-.19	-.22	-.22	3-70U	-.10	-.10	-.10
1-32U	-.24	-.25	-.25	3-95U	0	0	0
1-70U	-.19	-.20	-.22	3-1.25L	.37	.35	.42
1-80U	-.14	-.16	-.16	3-2.5L	.37	.33	.36
1-90U	-.10	-.10	-.10	3-5L	.31	.28	.24
1-95U	0	-.01	-.01	3-8L	.25	.23	.19
1-2.5L	-.17	-.12	-.18	3-14L	.18	.16	.12
1-5L	-.14	-.10	-.18	3-32L	.07	.06	.03
1-14L	-.03	-.01	-.06	3-38L	.03	.03	0
1-19L	-.01	0	-.04	3-60L	-.01	-.03	-.04
1-32L	.04	.04	.01	3-80L	0	0	.01
1-38L	0	0	-.04	3-95L	.01	.01	.01
1-60L	-.03	-.04	-.07	4-0C	-1.35	-1.07	-.60
1-70L	-.01	-.03	-.04	4-1.25U	-1.54	-1.43	-1.22
1-80L	0	-.03	-.04	4-2.5U	-1.19	-1.12	-.97
2-1.25U	-.39	-.46	-.52	4-14U	-.67	-.67	-.63
2-2.5U	-.47	-.55	-.54	4-19U	-.51	-.51	-.48
2-5U	-.44	-.48	-.48	4-32U	-.37	-.38	-.37
2-32U	-.32	-.32	-.33	4-38U	-.36	-.36	-.37
2-38U	-.37	-.38	-.37	4-60U	-.25	-.26	-.25
2-44U	-.22	-.25	-.25	4-70U	-.10	-.12	-.12
2-70U	-.18	-.19	-.18	4-90U	0	-.01	-.01
2-80U	-.11	-.12	-.10	4-95U	.06	.04	.03
2-95U	.01	0	.01	4-100C	.08	.07	.07
2-100C	-.01	-.01	0	4-2.5L	.56	.51	.43
2-1.25L	.24	.28	.30	4-5L	.42	.36	.28
2-2.5L	.21	.25	.22	4-8L	.32	.28	.21
2-5L	.17	.19	.15	4-14L	.17	.12	.06
2-14L	.14	.13	.09	4-19L	.12	.09	.03
2-32L	.07	.06	.03	4-32L	.08	.04	.01
2-38L	.04	.04	.01	4-38L	.01	-.01	-.04
2-44L	.03	.03	0	4-44L	0	.01	.04
2-70L	.06	.06	.04	4-60L	-.03	-.04	-.04
2-95L	.03	.03	.03	4-80L	.01	0	0



TABLE 5. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha = 18$	$\alpha = 19$	$\alpha = 20$	ORIFICE	$\alpha = 18$	$\alpha = 19$	$\alpha = 20$
1-0C	.64	.63	.36	3-1.25U	- 1.09	- .82	- .67
<del>1-1.25U</del>	<del>.17</del>	<del>.09</del>	<del>.13</del>	<del>3-8U</del>	<del>- .59</del>	<del>- .48</del>	<del>- .41</del>
1-2.5U	.06	.02	.06	3-14U	- .50	- .42	- .34
1-5U	- .05	- .06	- .02	3-19U	- .45	- .40	- .34
1-8U	- .12	- .12	- .08	3-32U	- .35	- .32	- .28
1-14J	- .15	- .15	- .11	3-60U	- .21	- .20	- .19
1-19U	- .23	- .22	- .17	3-70U	- .12	- .12	- .13
1-32U	- .24	- .25	- .20	3-95U	- 0	- 0	- .02
<del>1-70U</del>	<del>- .23</del>	<del>- .22</del>	<del>- .20</del>	<del>3-1.25L</del>	<del>- .44</del>	<del>- .31</del>	<del>- .16</del>
1-80U	- .17	- .15	- .14	3-2.5L	.33	.23	.14
<del>1-90U</del>	<del>- .11</del>	<del>- .11</del>	<del>- .11</del>	3-5L	.21	.12	.09
1-95U	- .02	- .02	- .03	3-8L	.17	.11	.09
1-2.5L	- .17	- .14	- .19	3-14L	.09	.06	.08
1-5L	- .17	- .15	- .17	3-32L	- 0	- 0	.02
1-14L	- .08	- .08	- .09	3-38L	- .03	- .03	- 0
1-19L	- .06	- .08	- .08	3-60L	- .06	- .05	- .03
1-32L	.02	.02	.03	<del>3-80L</del>	<del>- .02</del>	<del>- .02</del>	<del>- 0</del>
1-38L	- .06	- .08	- .06	3-95L	.02	.02	.02
1-60L	- .08	- .09	- .08	4-0C	- .26	- .26	- 1.09
1-70L	- .06	- .08	- .06	<del>4-1.25U</del>	<del>- 1.09</del>	<del>- .74</del>	<del>- .86</del>
1-80L	- .05	- .05	- .05	<del>4-2.5U</del>	<del>- .83</del>	<del>- .63</del>	<del>- .70</del>
2-1.25U	- .56	- .54	- .47	4-14U	- .59	- .51	- .45
2-2.5U	- .56	- .43	- .28	4-19U	- .45	- .40	- .36
2-5U	- .48	- .40	- .27	4-32U	- .36	- .34	- .30
2-32U	- .32	- .28	- .23	4-38U	- .36	- .35	- .31
<del>2-38U</del>	<del>- .38</del>	<del>- .35</del>	<del>- .30</del>	4-60U	- .27	- .26	- .23
<del>2-44U</del>	<del>- .26</del>	<del>- .25</del>	<del>- .23</del>	4-70U	- .14	- .12	- .13
2-70U	- .18	- .17	- .14	4-90U	- .03	- .05	- .06
2-80U	- .11	- .11	- .11	4-95U	.02	- 0	- .03
2-95U	.02	- 0	- .02	4-100C	.08	.05	.02
2-100C	.02	.02	- 0	<del>4-2.5L</del>	<del>.33</del>	<del>.17</del>	<del>.13</del>
2-1.25L	.32	.23	.06	<del>4-5L</del>	<del>.20</del>	<del>.09</del>	<del>.13</del>
2-2.5L	.24	.15	.03	4-8L	.14	.06	.11
2-5L	.15	.08	.02	<del>4-14L</del>	<del>.02</del>	<del>.03</del>	<del>.05</del>
2-14L	.08	.03	.02	4-19L	- 0	- .03	.05
2-32L	- 0	- .03	- .02	4-32L	- .02	- .03	.03
2-38L	- .02	- .03	- .03	4-38L	.09	.06	- 0
<del>2-44L</del>	<del>- .02</del>	<del>- .05</del>	<del>- .03</del>	<del>4-44L</del>	<del>- .06</del>	<del>- .06</del>	<del>- 0</del>
2-70L	.03	.03	.03	4-60L	- .06	- .06	- .02
2-95L	.02	.02	.02	4-80L	- 0	- .02	- 0

TABLE 5.- CONTINUED  
(a)- Continued

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$
4-90L	.03	.03	.03	6-8L	.23	.12	.03
4-95L	.07	.07	.07	6-14L	.25	.17	.11
5-0C	.59	.68	.68	6-19L	.23	.17	.11
5-1.25U	.27	.07	.13	6-38L	.21	.19	.15
5-8U	0	.11	.20	6-44L	.21	.19	.15
5-14U	.07	.15	.21	6-60L	.17	.16	.13
5-19U	.12	.19	.25	6-70L	.07	.05	.04
5-38U	.12	.15	.19	7-0C	.67	.69	.61
5-44U	.09	.12	.15	7-5U	.01	.15	.27
5-60U	.12	.15	.16	7-8U	.03	.13	.21
5-70U	.05	.07	.08	7-14U	.08	.16	.21
5-80U	.05	.05	.07	7-19U	.11	.17	.21
5-90U	.01	.01	.01	7-38U	.15	.19	.21
5-95U	.04	.04	.04	7-60U	.11	.13	.15
5-1.25L	.27	.03	.16	7-90U	0	0	0
5-2.5L	.28	.09	.05	7-95U	.07	.07	.07
5-5L	.32	.19	.07	7-1.25L	.19	.05	.23
5-8L	.25	.15	.05	7-2.5L	.27	.09	.07
5-14L	.24	.16	.09	7-5L	.29	.15	.03
5-19L	.25	.20	.13	7-8L	.27	.17	.08
5-38L	.23	.19	.16	7-14L	.23	.16	.12
5-44L	.20	.17	.15	7-19L	.24	.17	.13
5-60L	.19	.17	.16	7-32L	.20	.17	.13
5-70L	.05	.04	.03	7-44L	.17	.15	.13
5-90L	.04	.04	.04	7-60L	.15	.12	.11
5-95L	.08	.08	.08	7-70L	.08	.08	.07
6-0C	.57	.67	.67	7-90L	.04	.04	.04
6-5U	0	.13	.25	7-95L	.09	.09	.08
6-14U	.08	.15	.21	8-0C	.67	.68	.60
6-19U	.04	.04	.03	8-1.25U	.20	0	.20
6-32U	.01	.03	.07	8-2.5U	.03	.13	.31
6-44U	.01	.05	.09	8-5U	.01	.13	.25
6-60U	.11	.13	.15	8-8U	.05	.15	.24
6-70U	.11	.12	.13	8-14U	.09	.16	.21
6-80U	.04	.05	.05	8-19U	.11	.16	.21
6-90U	.01	.01	.01	8-60U	.03	.05	.07
6-100C	.15	.15	.15	8-80U	.03	.04	.03
6-1.25L	.20	.04	.21	8-90U	.01	.01	.03
6-2.5L	.32	.13	.03	8-95U	.11	.11	.09
6-5L	.31	.16	.04	8-100C	.16	.16	.16



TABLE 5.- CONTINUED  
(a)- Continued

ORIFICE	$\alpha= 4$	$\alpha= 6$	$\alpha= 8$	ORIFICE	$\alpha= 4$	$\alpha= 6$	$\alpha= 8$
4-90L	.04	.03	.04	6-8L	.05	.15	.20
4-95L	.07	.07	.07	6-14L	-	.03	.09
5-0C	.59	.39	.09	6-19L	-	0	.05
5-1.25U	-	.36	.64	6-38L	-	.08	.05
5-8U	-	.28	.36	6-44L	-	.09	.07
5-14U	-	.27	.33	6-60L	-	.09	.08
5-19U	-	.29	.35	6-70L	-	.03	0
5-38U	-	.23	.25	7-0C	-	.43	.33
5-44U	-	.19	.21	7-5U	-	.39	.64
5-60U	-	.17	.19	7-8U	-	.31	.49
5-70U	-	.11	.12	7-14U	-	.27	.40
5-80U	-	.07	.07	7-19U	-	.25	.36
5-90U	0	0	.01	7-38U	-	.24	.29
5-95U	.04	.04	.05	7-60U	-	.16	.17
5-1.25L	.31	.43	.53	7-90U	-	.01	.01
5-2.5L	.19	.31	.40	7-95U	-	.07	.07
5-5L	.04	.15	.23	7-1.25L	-	.37	.57
5-8L	.03	.12	.16	7-2.5L	-	.20	.41
5-14L	-	.04	.09	7-5L	-	.08	.27
5-19L	-	.08	.03	7-8L	-	.01	.17
5-38L	-	.12	.05	7-14L	-	.05	.09
5-44L	-	.11	.05	7-19L	-	.08	.04
5-60L	-	.13	.09	7-32L	-	.09	.03
5-70L	-	.01	0	7-44L	-	.11	.05
5-90L	.04	.05	.05	7-60L	-	.09	.07
5-95L	.08	.08	.08	7-70L	-	.07	.04
6-0C	.56	.32	.03	7-90L	-	.04	.05
6-5U	-	.39	.64	7-95L	-	.08	.08
6-14U	-	.28	.41	8-0C	-	.41	.33
6-19U	-	.03	.01	8-1.25U	-	.44	.95
6-32U	-	.11	.19	8-2.5U	-	.48	.84
6-44U	-	.12	.19	8-5U	-	.37	.59
6-60U	-	.16	.19	8-8U	-	.32	.49
6-70U	-	.15	.15	8-14U	-	.25	.37
6-80U	-	.05	.05	8-19U	-	.24	.33
6-90U	0	0	.01	8-60U	-	.08	.11
6-100C	.15	.13	.12	8-80U	-	.03	.03
6-1.25L	.36	.48	.56	8-90U	-	.03	.03
6-2.5L	.16	.29	.37	8-95U	-	.08	.07
6-5L	.07	.17	.27	8-100C	-	.15	.15

TABLE 5.- CONTINUED  
(a)- Continued

ORIFICE	$\alpha = 1.0$	$\alpha = 1.2$	$\alpha = 1.4$	ORIFICE	$\alpha = 1.0$	$\alpha = 1.2$	$\alpha = 1.4$
4-90L	.04	.04	.04	6-8L	.25	.31	.36
4-95L	.07	.07	.07	6-14L	.15	.19	.23
5-0C	-.28	-.72	1.27	6-19L	.09	.13	.18
5-1.25U	1.20	1.55	1.57	6-38L	-.01	0	.04
5-8U	-.53	-.63	-.72	6-44L	-.04	-.01	0
5-14U	-.45	-.51	-.57	6-60L	-.07	-.05	.03
5-19U	-.45	-.48	-.53	6-70L	-.03	-.03	.04
5-38U	-.31	-.32	-.34	7-0C	-.83	1.37	2.05
5-44U	-.25	-.27	-.28	7-5U	-.76	-.88	-.61
5-60U	-.20	-.20	-.20	7-8U	-.59	-.67	-.76
5-70U	-.13	-.13	-.14	7-14U	-.45	-.51	-.57
5-80U	-.07	-.07	-.07	7-19U	-.41	-.45	-.50
5-90U	.01	.01	.01	7-38U	-.31	-.32	-.34
5-95U	.05	.05	.05	7-60U	-.19	-.19	-.19
5-1.25L	.60	.64	.66	7-90U	.01	.03	.03
5-2.5L	.48	.53	.54	7-95U	.08	.08	.08
5-5L	.31	.36	.43	7-1.25L	.61	.64	.65
5-8L	.23	.28	.34	7-2.5L	.48	.53	.59
5-14L	.13	.17	.23	7-5L	.33	.39	.46
5-19L	.07	.12	.15	7-8L	.24	.29	.35
5-38L	-.03	.01	.04	7-14L	.13	.17	.23
5-44L	-.03	0	.03	7-19L	.08	.12	.16
5-60L	-.08	.05	.04	7-32L	0	.03	.07
5-70L	.03	.03	.04	7-44L	-.03	-.01	.01
5-90L	.05	.05	.05	7-60L	-.05	-.04	.03
5-95L	.08	.08	.07	7-70L	-.03	-.03	.01
6-0C	-.37	-.83	1.41	7-90L	.04	.05	.04
6-5U	-.76	-.88	1.03	7-95L	.08	.08	.07
6-14U	-.48	.53	.59	8-0C	-.81	1.32	1.99
6-19U	0	0	.01	8-1.25U	1.17	1.41	1.72
6-32U	.21	.24	.28	8-2.5U	1.01	1.17	1.38
6-44U	.20	.23	.26	8-5U	.71	.81	.95
6-60U	.19	.20	.19	8-8U	.57	.65	.74
6-70U	.15	.15	.15	8-14U	.43	.48	.54
6-80U	.05	.05	.05	8-19U	.39	.41	.47
6-90U	.03	.03	.04	8-60U	-.11	-.11	.39
6-100C	.12	.11	.11	8-80U	-.03	-.03	.03
6-1.25L	.63	.65	.66	8-90U	.03	.04	.03
6-2.5L	.45	.52	.57	8-95U	-.05	-.04	.03
6-5L	.33	.39	.46	8-100C	.13	.12	.12



TABLE 5.- CONTINUED  
(a)- Continued

ORIFICE	$\alpha = 15$	$\alpha = 16$	$\alpha = 17$	ORIFICE	$\alpha = 15$	$\alpha = 16$	$\alpha = 17$
4-50L	.03	.03	.01	6-3L	.36	.30	.18
4-95L	.18	.04	.03	6-14L	.22	.17	.06
5-0C	- 1.44	.51	.37	6-19L	.17	.11	.01
5-1.25U	- 1.62	- 1.61	- 1.31	6-38L	.03	.01	.07
5-8U	- .76	- .69	- .61	6-44L	- .01	- .04	- .10
5-14U	- .61	- .56	- .52	6-60L	- .04	- .07	- .10
5-19U	- .57	- .53	- .52	6-70L	.03	0	.04
5-38U	- .36	- .34	- .37	7-0C	- 2.18	- 1.57	- 1.10
5-44U	- .31	- .29	- .30	7-5U	- 1.07	- .97	- .91
5-60U	- .22	- .21	- .25	7-8U	- .81	- .74	- .72
5-70U	- .17	- .16	- .18	7-14U	- .61	- .57	- .57
5-80U	- .08	- .09	- .12	7-19U	- .53	- .50	- .52
5-90U	- 0	- 0	- .03	7-38U	- .36	- .36	- .39
5-95U	.04	.04	0	7-60U	- .21	- .20	- .24
5-1.25L	.65	.63	.54	7-90U	.01	0	.04
5-2.5L	.58	.53	.42	7-95U	.06	.06	0
5-5L	.43	.37	.24	7-1.25L	.65	.64	.52
5-8L	.33	.27	.16	7-2.5L	.58	.54	.42
5-14L	.22	.17	.07	7-5L	.44	.39	.25
5-19L	.15	.10	.01	7-8L	.33	.29	.15
5-38L	.03	0	.06	7-14L	.22	.16	.06
5-44L	.01	.01	.06	7-19L	.15	.10	0
5-60L	- .06	- .07	- .10	7-32L	.06	0	.06
5-70L	.03	.01	.03	7-44L	- 0	- .04	- .10
5-90L	.04	.03	.01	7-60L	- .04	- .07	- .12
5-95L	.06	.06	.04	7-70L	- .03	- .06	- .10
6-0C	- 1.53	- .96	- .48	7-90L	.03	.01	.01
6-5U	- 1.08	- .96	- .87	7-95L	.06	.06	.01
6-14U	- .64	- .59	- .58	8-0C	- 2.14	- 1.67	- 1.36
6-19U	- 0	- 0	- .01	8-1.25U	- 1.81	- 1.64	- 1.51
6-32U	- .35	- .37	- .42	8-2.5U	- 1.46	- 1.36	- 1.27
6-44U	- .29	- .31	- .36	8-5U	- 1.00	- .94	- .91
6-60U	- .22	- .21	- .25	8-8U	- .79	- .76	- .75
6-70U	- .17	- .17	- .21	8-14U	- .57	- .56	- .58
6-80U	- .07	- .07	- .12	8-19U	- .50	- .49	- .51
6-90U	.03	.03	.01	8-60U	- .14	- .14	- .18
6-100C	.08	.09	.06	8-80U	- .04	- .06	- .10
6-1.25L	.67	.64	.54	8-90U	.01	.01	.04
6-2.5L	.57	.51	.37	8-95U	- .04	- .06	- .10
6-5L	.44	.39	.24	8-100C	.10	.10	.04

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TABLE 5.- CONTINUED  
(a)- Continued

ORIFICE	$\alpha = 18$	$\alpha = 19$	$\alpha = 20$	ORIFICE	$\alpha = 18$	$\alpha = 19$	$\alpha = 20$
4-90L	.02	.02	0	6-8L	.11	.06	.08
4-95L	.03	.03	0	6-14L	0	0	.05
5-0C	.21	.36	1.23	6-19L	.02	.02	.03
5-1.25U	1.08	.82	1.00	6-38L	.09	.06	.02
5-8U	.56	.47	.58	6-44L	.11	.06	.03
5-14U	.50	.42	.47	6-60L	.12	.08	.06
5-19U	.50	.42	.44	6-70L	.05	.03	0
5-38U	.36	.30	.31	7-0C	.98	.89	1.05
5-44U	.30	.27	.27	7-5U	.86	.74	.75
5-60U	.26	.23	.23	7-8U	.68	.61	.64
5-70U	.18	.15	.16	7-14U	.55	.50	.53
5-80U	.12	.12	.13	7-19U	.50	.44	.48
5-90U	.05	.06	.08	7-38U	.38	.35	.33
5-95U	.02	.03	.06	7-60U	.24	.23	.22
5-1.25L	.41	.20	.05	7-90U	.08	.08	.11
5-2.5L	.30	.15	.11	7-95U	.03	.05	.08
5-5L	.15	.06	.08	7-1.25L	.11	.21	.05
5-8L	.11	.05	.09	7-2.5L	.30	.17	.08
5-14L	.02	0	.06	7-5L	.17	.09	.08
5-19L	.03	.03	.03	7-8L	.09	.06	.06
5-38L	.09	.06	0	7-14L	.02	0	.03
5-44L	.08	.05	0	7-19L	.03	.02	.02
5-60L	.11	.08	.03	7-32L	.08	.05	.02
5-70L	.03	.02	0	7-44L	.11	.06	.05
5-90L	0	0	.02	7-60L	.12	.08	.06
5-95L	.03	.02	0	7-70L	.11	.08	.06
6-0C	.39	.52	.95	7-90L	.05	.05	.05
6-5U	.80	.68	.77	7-95L	.02	.02	.05
6-14U	.55	.48	.53	8-0C	1.23	1.06	.98
6-19U	.03	.02	.03	8-1.25U	1.38	1.11	.95
6-32U	.42	.39	.41	8-2.5U	1.18	.95	.86
6-44U	.35	.33	.33	8-5U	.86	.73	.69
6-60U	.26	.23	.22	8-8U	.71	.62	.61
6-70U	.21	.18	.17	8-14U	.56	.50	.50
6-80U	.12	.12	.14	8-19U	.50	.44	.45
6-90U	.02	.02	0	8-60U	.18	.18	.20
6-100C	.03	.02	.03	8-80U	.12	.12	.16
6-1.25L	.41	.21	.05	8-90U	.08	.09	.13
6-2.5L	.26	.12	.05	8-95U	.11	.08	.08
6-5L	.15	.08	.06	8-100C	0	.03	.08

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TABLE 5. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$
8-1.25L	.19	.03	.20	11-32U	.11	.09	.11
8-2.5L	.23	.05	.09	12-32U	.11	.07	.08
8-5L	.26	.14	.03	TIP-32C	.09	.07	.08
8-8L	.26	.15	.07	11-32L	.11	.08	.07
8-14L	.22	.15	.09	10-32L	.14	.12	.11
8-19L	.22	.16	.11	10-70U	.07	.05	.05
8-32L	.19	.15	.12	11-70U	.07	.04	.04
8-38L	.18	.15	.12	12-70U	.05	.03	.04
8-44L	.16	.15	.14	TIP-70C	.01	.01	0
8-60L	.08	.08	.07	12-70L	.05	.03	.05
8-95L	.09	.09	.09	11-70L	.03	.03	.04
9-0C	.64	.69	.66	10-70L	.04	.04	.05
9-1.25U	.20	.01	.18	FIN-1	.01	.01	.01
9-2.5U	.05	.11	.27	FIN-2	0	.01	.01
9-5U	.04	.15	.27	FIN-3	.01	.01	.01
9-14U	.14	.19	.24	FIN-4	.05	.07	.07
9-19U	.14	.19	.23	FIN-5	0	0	.01
9-32U	.15	.18	.19	FIN-6	0	0	.01
9-44U	.11	.12	.14	FIN-7	.15	.16	.15
9-70U	.03	.01	0	FIN-8	.07	.05	.05
9-80U	0	0	0	FIN-9	.08	.08	.08
9-100C	.15	.15	.14	FIN-10	.05	.05	.05
9-1.25L	.20	0	.16	FIN-11	.07	.07	.07
9-5L	.23	.11	0	FIN-12	.04	.04	.04
9-8L	.24	.15	.08	FIN-13	.05	.07	.05
9-14L	.22	.15	.11	FIN-14	.14	.14	.14
9-19L	.20	.15	.11	FIN-15	.07	.07	.05
9-32L	.20	.18	.15	FIN-16	.04	.04	.04
9-38L	.15	.14	.11	FIN-17	.01	0	0
9-44L	.11	.08	.07	FIN-18	.03	.03	.03
9-70L	.04	.04	.04	FIN-19	.04	.05	.05
9-90L	.07	.07	.07	FIN-20	.04	.03	.03
9-95L	.12	.12	.12	FIN-21	.11	.11	.12
2S-60U	.15	.15	.16	FIN-22	.07	.05	.05
2S-60L	.12	.12	.11	FIN-23	.05	.04	.04
5S-60U	.07	.07	.07	FIN-24	.01	.01	0
5S-60L	.12	.11	.11	FIN-25	.18	.18	.19
8S-60U	.12	.12	.14	FIN-26	.11	.12	.12
8S-60L	.11	.11	.09	FIN-27	.07	.07	.08
10-32U	.01	.01	.01	FIN-28	.07	.07	.07

TABLE 5. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
8-1.25L	.33	.45	.54	11-32U	.13	.16	.19
8-2.5L	.21	.33	.42	12-32U	.12	.17	.26
8-5L	.08	.17	.32	TIP-32C	.12	.19	.28
8-8L	0	.08	.15	11-32L	.08	.08	.09
8-14L	.03	.03	.07	10-32L	.09	.08	.09
8-19L	.05	0	.04	10-70U	.05	.05	.07
8-32L	.08	.05	.03	11-70U	.05	.11	.20
8-38L	.09	.07	.05	12-70U	.07	.12	.16
8-44L	.11	.08	.07	TIP-70C	0	0	.01
8-60L	.07	.07	.05	12-70L	.11	.23	.35
8-95L	.08	.08	.09	11-70L	.05	.09	.14
9-0C	.53	.17	.01	10-70L	.05	.07	.08
9-1.25U	.39	.60	.74	FIN-1	0	0	0
9-2.5U	.41	.60	.74	FIN-2	.03	.03	.03
9-5U	.37	.47	.57	FIN-3	.01	.03	.01
9-14U	.28	.32	.38	FIN-4	.08	.09	.11
9-19U	.25	.29	.34	FIN-5	.01	.01	.01
9-32U	.21	.24	.26	FIN-6	.01	.01	.01
9-44U	.13	.15	.16	FIN-7	.13	.12	.09
9-70U	0	0	0	FIN-8	.05	.04	.01
9-80U	0	0	0	FIN-9	.08	.07	.07
9-100C	.13	.12	.12	FIN-10	.05	.05	.05
9-1.25L	.29	.41	.50	FIN-11	.07	.07	.07
9-5L	.12	.19	.24	FIN-12	.04	.04	.04
9-8L	0	.07	.12	FIN-13	.05	.04	.03
9-14L	.05	0	.04	FIN-14	.13	.12	.12
9-19L	.07	.03	0	FIN-15	.05	.05	.04
9-32L	.13	.11	.08	FIN-16	.04	.03	.01
9-38L	.09	.08	.07	FIN-17	0	0	.01
9-44L	.05	.05	.04	FIN-18	.01	.01	.01
9-70L	.05	.05	.05	FIN-19	.04	.05	.05
9-90L	.05	.05	.04	FIN-20	.03	.03	.03
9-95L	.12	.12	.12	FIN-21	.12	.11	.11
28-60U	.16	.17	.18	FIN-22	.05	.05	.05
28-60L	.09	.08	.07	FIN-23	.04	.04	.04
58-60U	.05	.05	.05	FIN-24	0	0	.01
58-60L	.09	.08	.07	FIN-25	.19	.19	.18
88-60U	.13	.15	.15	FIN-26	.13	.13	.14
88-60L	.08	.07	.07	FIN-27	.08	.07	.07
10-32U	0	0	.01	FIN-28	.08	.07	.07

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TABLE 5. -- CONTINUED  
(a) -- Continued

ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$
8-1.25L	.59	.62	.63	11-32U	-.23	-.28	-.37
8-2.5L	.49	.54	.59	12-32U	-.34	-.42	-.55
8-5L	.32	.38	.44	TIP-32C	-.38	-.49	-.63
8-8L	.08	.27	.32	11-32L	-.12	-.15	-.16
8-14L	.12	.16	.21	10-32L	-.07	-.07	-.07
8-19L	.08	.12	.15	10-70U	-.08	-.09	-.12
8-32L	0	.01	.04	11-70U	-.35	-.45	-.53
8-38L	-.03	-.01	-.01	12-70U	-.23	-.28	-.36
8-44L	-.05	-.04	-.04	TIP-70C	-.03	.03	.04
8-60L	-.05	.05	0	12-70L	-.49	-.62	-.77
8-95L	.08	.07	.07	11-70L	-.16	-.20	-.25
9-0C	-.38	-.78	1.33	10-70L	-.08	-.09	-.12
9-1.25U	-.96	1.18	1.44	FIN-1	.01	.04	.04
9-2.5U	-.91	1.07	1.25	FIN-2	-.03	-.03	-.01
9-5U	-.69	-.78	-.89	FIN-3	.01	.03	.03
9-14U	-.42	-.46	-.51	FIN-4	-.11	-.11	-.11
9-19U	-.36	-.39	-.42	FIN-5	-.01	-.01	-.01
9-32U	-.27	-.28	-.30	FIN-6	-.01	-.01	-.01
9-44U	-.18	-.19	-.19	FIN-7	-.08	-.05	-.03
9-70U	.01	.01	.03	FIN-8	-.01	0	.01
9-80U	0	.01	.01	FIN-9	-.05	-.04	-.03
9-100C	.11	.09	.08	FIN-10	-.05	-.05	-.05
9-1.25L	.57	.59	.62	FIN-11	-.07	-.07	-.07
9-5L	.31	.35	.41	FIN-12	-.04	-.04	-.03
9-8L	.18	.22	.27	FIN-13	0	.01	.03
9-14L	.08	.12	.15	FIN-14	-.11	-.09	-.08
9-19L	.03	.07	.08	FIN-15	-.04	-.03	-.01
9-32L	-.07	-.05	-.04	FIN-16	-.01	0	0
9-38L	-.05	-.04	-.03	FIN-17	-.01	.01	.01
9-44L	-.03	-.01	-.01	FIN-18	-.01	.01	0
9-70L	-.05	.05	.07	FIN-19	-.05	-.05	-.04
9-90L	.04	.04	.03	FIN-20	-.03	-.01	-.01
9-95L	.12	.11	.10	FIN-21	-.11	-.09	-.10
2S-60U	-.18	-.04	-.18	FIN-22	-.05	-.05	-.04
2S-60L	-.07	-.05	-.05	FIN-23	-.04	-.04	-.03
5S-60U	-.05	.05	.05	FIN-24	-.03	.03	.04
5S-60L	-.05	.04	.03	FIN-25	-.16	-.16	-.16
8S-60U	-.15	.15	.15	FIN-26	-.12	-.12	-.12
8S-60L	-.05	.04	.03	FIN-27	-.07	-.07	-.07
10-32U	.01	.03	.04	FIN-28	-.05	-.07	-.05

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TABLE 5. - CONTINUED  
(a) Continued

ORIFICE	$\alpha = 15$	$\alpha = 16$	$\alpha = 17$	ORIFICE	$\alpha = 15$	$\alpha = 16$	$\alpha = 17$
8-1.25L	.64	.63	.52	11-32U	-.40	-.41	-.45
8-2.5L	.60	.56	.45	12-32U	-.58	-.59	-.60
8-5L	.43	.39	.28	TIP-32C	-.67	-.64	-.61
8-8L	.32	.27	.16	11-32L	-.18	-.16	-.16
8-14L	.22	.16	.07	10-32L	-.07	-.09	-.12
8-19L	.15	.09	.01	10-70U	-.14	-.16	-.19
8-32L	.04	0	-.06	11-70U	-.56	-.49	-.42
8-38L	.01	-.04	-.09	12-70U	-.39	-.39	-.42
8-44L	-.03	-.07	-.10	TIP-70C	.04	.03	.03
8-60L	-.04	-.07	-.09	12-70L	-.81	-.71	-.60
8-95L	.06	.04	.01	11-70L	-.25	-.23	-.22
9-0C	- 1.42	- 1.16	-.97	10-70L	-.12	-.13	-.15
9-1.25U	- 1.50	- 1.41	- 1.33	FIN-1	.04	.03	.01
9-2.5U	- 1.31	- 1.26	- 1.19	FIN-2	-.01	-.04	-.04
9-5U	-.92	-.91	-.90	FIN-3	.03	0	0
9-14U	-.53	-.53	- 1.00	FIN-4	-.12	-.16	-.16
9-19U	-.44	-.46	-.46	FIN-5	-.03	-.06	-.06
9-32U	-.31	-.33	-.34	FIN-6	-.03	-.06	-.06
9-44U	-.21	-.21	-.24	FIN-7	-.01	-.03	-.03
9-70U	-.03	-.06	-.10	FIN-8	.01	.01	0
9-80U	-.03	-.04	-.07	FIN-9	-.03	-.04	-.04
9-100C	.07	.06	.01	FIN-10	-.06	-.07	-.07
9-1.25L	.62	.61	.52	FIN-11	-.07	-.07	-.09
9-5L	.42	.39	.30	FIN-12	-.04	-.06	-.07
9-8L	.28	.24	.16	FIN-13	.04	.03	.01
9-14L	.14	.11	.04	FIN-14	-.08	-.10	-.10
9-19L	.08	.04	-.01	FIN-15	-.01	-.03	-.04
9-32L	-.04	-.07	-.12	FIN-16	0	.01	.01
9-38L	-.03	-.07	-.10	FIN-17	.01	.01	.01
9-44L	-.01	-.04	-.07	FIN-18	0	.01	.03
9-70L	-.07	-.10	-.13	FIN-19	-.04	-.06	-.07
9-90L	.03	0	.03	FIN-20	-.01	-.04	-.06
9-95L	.10	.07	.01	FIN-21	-.10	-.10	-.12
2S-60U	-.18	-.19	-.21	FIN-22	-.04	-.06	-.07
2S-60L	-.06	-.07	-.09	FIN-23	-.03	-.06	-.06
5S-60U	-.06	-.07	-.09	FIN-24	.04	.03	.01
5S-60L	-.03	-.06	-.07	FIN-25	-.15	-.17	-.19
8S-60U	-.15	-.16	-.18	FIN-26	-.11	-.13	-.13
8S-60L	-.03	-.06	-.07	FIN-27	-.06	-.07	-.09
10-32U	.04	.03	.03	FIN-28	-.04	-.07	-.04

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TABLE 5. - CONTINUED  
(a) - Concluded

ORIFICE	$\alpha = 18$	$\alpha = 19$	$\alpha = 20$	ORIFICE	$\alpha = 18$	$\alpha = 19$	$\alpha = 20$
8-1.25L	.39	.18	.05	11-32U	.42	.38	.40
8-2.5L	.32	.17	.08	12-32U	.56	.48	.46
8-5L	.20	.11	.06	TIP-32C	.56	.48	.46
8-8L	.11	.05	.03	11-32L	.17	.18	.24
8-14L	.03	0	0	10-32L	.12	.12	.14
8-19L	.02	.02	.02	10-70U	.21	.23	.25
8-32L	.08	.06	.05	11-70U	.38	.32	.16
8-38L	.09	.08	.06	12-70U	.41	.35	.19
8-44L	.11	.09	.08	TIP-70C	.02	.03	0
8-60L	.09	.09	.11	12-70L	.52	.40	.38
8-95L	.02	.05	.08	11-70L	.21	.20	.24
9-0C	.91	.82	.81	10-70L	.15	.14	.16
9-1.25U	1 .21	.98	.89	FIN-1	0	0	.03
9-2.5U	1 .11	.75	.81	FIN-2	.06	.06	.11
9-5U	.85	.72	.67	FIN-3	.03	.02	.10
9-14U	.53	.48	.48	FIN-4	.20	.20	.29
9-19U	.47	.43	.43	FIN-5	.09	.09	.16
9-32U	.35	.32	.35	FIN-6	.09	.09	.16
9-44U	.26	.26	.27	FIN-7	.02	.03	.03
9-70U	.14	.15	.19	FIN-8	0	0	.05
9-80U	.11	.14	.17	FIN-9	.05	.05	.08
9-100C	.02	.06	.11	FIN-10	.09	.11	.14
9-1.25L	.39	.18	.06	FIN-11	.11	.11	.14
9-5L	.21	.12	.06	FIN-12	.08	.09	.13
9-8L	.09	.05	.02	FIN-13	.02	.02	.02
9-14L	0	.02	.03	FIN-14	.12	.12	.17
9-19L	.05	.05	.05	FIN-15	.05	.05	.08
9-32L	.12	.11	.10	FIN-16	.02	.02	.05
9-38L	.11	.11	.10	FIN-17	.03	.05	.10
9-44L	.09	.08	.08	FIN-18	.05	.05	.08
9-70L	.14	.12	.13	FIN-19	.08	.08	.11
9-90L	.06	.08	.10	FIN-20	.06	.08	.10
9-95L	0	.03	.03	FIN-21	.12	.14	.16
2S-60U	.21	.22	.21	FIN-22	.08	.08	.11
2S-60L	.09	.09	.10	FIN-23	.06	.08	.10
5S-60U	.09	.09	.11	FIN-24	.03	.02	0
5S-60L	.08	.08	.08	FIN-25	.20	.20	.25
8S-60U	.20	.18	.19	FIN-26	.14	.15	.16
8S-60L	.08	.08	.08	FIN-27	.09	.09	.11
10-32U	.03	.02	0	FIN-28	.09	.09	.11

TABLE 5. - CONTINUED  
(b)  $\beta$ , - 4°.

ORIFICE	$\alpha = 2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = 2$	$\alpha = 0$	$\alpha = 2$
1-0C	.78	.76	.65	3-1.25U	.15	.39	.59
1-1.25U	.08	.22	.31	3-3U	.23	.34	.41
1-2.5U	.08	.18	.25	3-14U	.23	.31	.36
1-5U	.11	.18	.20	3-19U	.24	.31	.35
1-8U	.11	.16	.19	3-32U	.20	.24	.27
1-14U	.08	.12	.15	3-60U	.14	.16	.17
1-19U	.12	.16	.19	3-70U	.09	.12	.13
1-32U	.09	.14	.16	3-95U	.05	.05	.05
1-70U	.18	.19	.19	3-1.25L	.23	.38	.47
1-80U	.09	.09	.08	3-2.5L	.05	.19	.29
1-90U	.05	.05	.07	3-5L	.08	.04	.11
1-95U	.05	.04	.01	3-8L	.08	.01	.08
1-2.5L	.09	.18	.23	3-14L	.12	.05	0
1-5L	.03	.05	.11	3-32L	.15	.11	.07
1-14L	.07	.03	.03	3-38L	.18	.15	.11
1-19L	.11	.05	.01	3-60L	.15	.14	.12
1-32L	.08	.03	.01	3-80L	.04	.04	.04
1-38L	.12	.09	.05	3-95L	.07	.07	.07
1-60L	.14	.12	.11	4-0C	.74	.61	.41
1-70L	.11	.11	.09	4-1.25U	.15	.41	.63
1-80L	.05	.05	.05	4-2.5U	.34	.41	.57
2-1.25U	.14	.05	.04	4-14U	.26	.36	.48
2-2.5U	.18	.34	.47	4-19U	.24	.30	.35
2-5U	.22	.32	.41	4-32U	.22	.26	.29
2-32U	.15	.19	.21	4-38U	.18	.22	.24
2-38U	.26	.28	.29	4-60U	.22	.23	.24
2-44U	.01	.04	.08	4-70U	.05	.08	.11
2-70U	.09	.11	.12	4-90U	.01	0	0
2-80U	.05	.07	.07	4-95U	.07	.07	.07
2-95U	.07	.05	.07	4-100C	.16	.15	.13
2-100C	.11	.09	.08	4-2.5L	.08	.22	.32
2-1.25L	.20	.35	.44	4-5L	.03	.07	.16
2-2.5L	.05	.18	.27	4-8L	.04	.05	.12
2-5L	.07	.04	.11	4-14L	.16	.08	.03
2-14L	.12	.05	.01	4-19L	.18	.11	.05
2-32L	.14	.11	.08	4-32L	.14	.09	.05
2-38L	.16	.12	.09	4-38L	.19	.15	.12
2-44L	.16	.14	.11	4-44L	.16	.14	.11
2-70L	.04	.03	.01	4-60L	.14	.11	.09
2-95L	.07	.05	.04	4-80L	.03	.03	.01



TABLE 5. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
1-0C	.45	.30	.23	3-1.25U	.87	1.08	1.29
1-1.25U	.32	.26	.25	3-8U	.51	.58	.65
1-2.5U	.24	.20	.19	3-14U	.43	.49	.53
1-5U	.17	.14	.16	3-19U	.40	.45	.48
1-8U	.19	.17	.19	3-32U	.29	.33	.35
1-14U	.15	.16	.17	3-60U	.19	.20	.20
1-19U	.19	.20	.21	3-70U	.15	.14	.13
1-32U	.17	.20	.23	3-95U	.05	.05	.05
1-70U	.17	.17	.17	3-1.25L	.56	.62	.67
1-80U	.09	.11	.12	3-2.5L	.39	.53	.53
1-90U	.05	.07	.08	3-5L	.21	.29	.35
1-95U	.01	.03	.04	3-8L	.16	.21	.27
1-2.5L	.25	.25	.25	3-14L	.07	.12	.16
1-5L	.15	.17	.19	3-32L	.03	0	.03
1-14L	.07	.09	.12	3-38L	.08	.05	.03
1-19L	.03	.07	.09	3-60L	.11	.09	.21
1-32L	.03	.05	.07	3-80L	.03	.03	.16
1-38L	.03	0	.01	3-95L	.05	.04	.04
1-60L	.08	.05	.04	4-0C	.05	.39	.85
1-70L	.07	.05	.04	4-1.25U	.91	1.20	1.37
1-80L	.04	.04	.03	4-2.5U	.81	.93	1.09
2-1.25U	.13	.30	.40	4-14U	.56	.61	.65
2-2.5U	.63	.72	.80	4-19U	.41	.46	.51
2-5U	.51	.57	.63	4-32U	.33	.36	.39
2-32U	.25	.26	.28	4-38U	.28	.32	.33
2-38U	.32	.33	.35	4-60U	.25	.26	.27
2-44U	.11	.14	.16	4-70U	.12	.13	.13
2-70U	.13	.12	.12	4-90U	0	0	.01
2-80U	.07	.07	.07	4-95U	.07	.07	.07
2-95U	.05	.05	.04	4-100C	.13	.12	.11
2-100C	.07	.04	.03	4-2.5L	.43	.49	.56
2-1.25L	.25	.58	.61	4-5L	.25	.33	.40
2-2.5L	.35	.41	.45	4-8L	.20	.26	.31
2-5L	.19	.25	.29	4-14L	.04	.09	.15
2-14L	.05	.09	.15	4-19L	0	.05	.09
2-32L	.04	0	.01	4-32L	.03	.01	.04
2-38L	.07	.09	.03	4-38L	.05	.05	.03
2-44L	.08	.08	.04	4-44L	.07	.05	.03
2-70L	0	.01	.03	4-60L	.07	.05	.04
2-95L	.04	.03	.01	4-80L	0	0	.01

TABLE 5. -- CONTINUED  
(b) -- Continued

ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$
1-0C	.23	.24	.31	3-1.25U	1.49	1.65	1.77
1-1.25U	.24	.24	.26	3-8U	.72	.76	.78
1-2.5U	.19	.19	.20	3-14U	.57	.59	.61
1-5U	.17	.17	.19	3-19U	.51	.52	.50
1-8U	.20	.21	.23	3-32U	.36	.37	.38
1-14U	.20	.21	.22	3-60U	.20	.20	.20
1-19U	.24	.25	.28	3-70U	.13	.12	.11
1-32U	.25	.28	.30	3-95U	.04	.04	.03
1-70U	.17	.19	.20	3-1.25L	.69	.69	.69
1-80U	.13	.15	.16	3-2.5L	.57	.59	.61
1-90U	.09	.09	.09	3-5L	.40	.44	.46
1-95U	.04	.04	.04	3-8L	.31	.35	.38
1-2.5L	.27	.29	.31	3-14L	.21	.24	.27
1-5L	.21	.24	.24	3-32L	.05	.08	.11
1-14L	.16	.17	.19	3-38L	.01	.03	.05
1-19L	.12	.15	.16	3-60L	.05	.03	.03
1-32L	.09	.11	.14	3-80L	.01	0	.01
1-38L	.04	.05	.08	3-95L	.04	.05	.04
1-60L	.03	.01	0	4-0C	1.43	2.05	2.61
1-70L	.03	0	.01	4-1.25U	1.64	1.92	2.16
1-80L	.01	0	.01	4-2.5U	1.28	1.47	1.62
2-1.25U	.51	.59	.65	4-14U	.71	.75	.78
2-2.5U	.96	.80	.73	4-19U	.56	.59	.62
2-5U	.63	.61	.57	4-32U	.41	.43	.45
2-32U	.15	.31	.31	4-38U	.36	.37	.39
2-38U	.35	.36	.38	4-60U	.27	.27	.27
2-44U	.17	.19	.20	4-70U	.13	.12	.11
2-70U	.12	.15	.18	4-90U	.01	.01	.01
2-80U	.07	.08	.11	4-95U	.07	.05	.05
2-95U	.01	.01	0	4-100C	.09	.08	.07
2-100C	.01	.03	.03	4-2.5L	.61	.64	.66
2-1.25L	.61	.56	.43	4-5L	.45	.51	.54
2-2.5L	.48	.47	.42	4-8L	.36	.40	.43
2-5L	.33	.35	.34	4-14L	.19	.23	.27
2-14L	.17	.17	.16	4-19L	.15	.17	.22
2-32L	.04	.05	.08	4-32L	.08	.11	.14
2-38L	0	.03	.04	4-38L	.05	.04	.05
2-44L	.01	.01	.03	4-44L	0	.03	.04
2-70L	.04	.05	.05	4-60L	.03	0	.01
2-95L	0	0	.01	4-80L	.01	.03	.03

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TABLE 5. -- CONTINUED  
(b) -- Continued

ORIFICE	$\alpha = 16$	$\alpha = 18$	ORIFICE	$\alpha = 16$	$\alpha = 18$
1-0C	.46	.55	3-1.25U	1.66	1.52
1-1.25U	.24	.09	3-8U	.72	.67
1-2.5U	.20	.10	3-14U	.56	.54
1-5U	.20	.15	3-19U	.49	.48
1-8U	.24	.21	3-32U	.37	.36
1-14J	.24	.21	3-60U	.21	.22
1-19U	.30	.28	3-70U	.11	.10
1-32U	.31	.30	3-95U	0	.03
1-70U	.23	.24	3-1.25L	.58	.34
1-80U	.18	.18	3-2.5L	.54	.36
1-90U	.11	.12	3-5L	.41	.30
1-95U	.03	.03	3-8L	.34	.25
1-2.5L	.25	.04	3-14L	.24	.18
1-5L	.21	.01	3-32L	.08	.06
1-14L	.15	.04	3-38L	.04	.03
1-19L	.14	.04	3-60L	.03	.03
1-32L	.13	.07	3-80L	0	0
1-38L	.07	.03	3-95L	.01	0
1-60L	0	.03	4-0C	2.20	1.36
1-70L	.01	.01	4-1.25U	1.97	1.43
1-80L	0	.01	4-2.5U	1.48	1.12
2-1.25U	.73	.79	4-14U	.76	.67
2-2.5U	.68	.70	4-19U	.59	.52
2-5U	.55	.58	4-32U	.42	.40
2-32U	.34	.34	4-38U	.42	.43
2-38U	.41	.42	4-60U	.27	.28
2-44U	.24	.28	4-70U	.11	.15
2-70U	.21	.19	4-90U	.01	.04
2-80U	.13	.13	4-95U	4	0
2-95U	.01	.01	4-100C	7	.03
2-100C	.03	.03	4-2.5L	.61	.34
2-1.25L	.35	.31	4-5L	.46	.25
2-2.5L	.32	.30	4-8L	.37	.19
2-5L	.27	.24	4-14L	.21	.09
2-14L	.20	.16	4-19L	.17	.06
2-32L	.08	.07	4-32L	8	.04
2-38L	.06	.04	4-38L	4	.01
2-44L	.03	.03	4-44L	1	.01
2-70L	.06	.06	4-60L	1	.03
2-95L	.01	.01	4-80L	1	0

TABLE 5.- CONTINUED  
(b)- Continued

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$
4-90L	.04	.03	.04	6-8L	-	.03	.07
4-95L	.08	.07	.08	6-14L	-	.09	.04
5-0C	.73	.58	.36	6-19L	-	.11	.07
5-1.25U	.21	.50	.75	6-38L	-	.15	.14
5-8U	.23	.36	.41	6-44L	-	.16	.15
5-14U	.24	.32	.37	6-60L	-	.15	.15
5-19U	.27	.34	.37	6-70L	-	.04	.04
5-38U	.19	.26	.26	7-0C	-	.67	.39
5-44U	.16	.22	.22	7-5U	-	.29	.47
5-60U	.17	.20	.20	7-8U	-	.25	.38
5-70U	.09	.14	.13	7-14U	-	.23	.31
5-80U	.07	.09	.08	7-19U	-	.23	.30
5-90U	.01	0	.01	7-38U	-	.23	.28
5-95U	.05	.04	.05	7-60U	-	.15	.19
5-1.25L	.23	.38	.51	7-90U	0	0	.01
5-2.5L	.12	.24	.37	7-95U	-	.08	.07
5-5L	.03	.07	.18	7-1.25L	-	.13	.43
5-8L	.05	.04	.13	7-2.5L	-	.09	.23
5-14L	.11	.03	.05	7-5L	-	.01	.09
5-19L	.13	.08	.01	7-8L	-	.07	.03
5-38L	.16	.14	.08	7-14L	-	.12	.05
5-44L	.15	.12	.08	7-19L	-	.13	.09
5-60L	.17	.16	.12	7-32L	-	.15	.11
5-70L	.01	.03	0	7-44L	-	.13	.12
5-90L	.05	.04	.05	7-60L	-	.11	.12
5-95L	.08	.07	.08	7-70L	-	.07	.08
6-0C	.72	.58	.33	7-90L	-	.05	.04
6-5U	.31	.49	.59	7-95L	-	.09	.08
6-14U	.24	.34	.38	8-0C	-	.67	.42
6-19U	.01	.05	.03	8-1.25U	-	.21	.51
6-32U	.07	.01	.05	8-2.5U	-	.32	.55
6-44U	.03	.04	.08	8-5U	-	.27	.43
6-60U	.03	.19	.18	8-8U	-	.25	.38
6-70U	.01	.16	.16	8-14U	-	.23	.31
6-80U	.05	.07	.07	8-19U	-	.23	.27
6-90U	.01	.03	0	8-60U	-	.05	.08
6-100C	.16	.14	.14	8-80U	-	.04	.05
6-1.25L	.27	.42	.54	8-90U	-	.03	.01
6-2.5L	.05	.20	.33	8-95U	-	.09	.09
6-5L	.03	.09	.20	8-100C	-	.16	.15



TABLE 5.- CONTINUED  
(i) Continued

ORIFICE	$\alpha= 4$	$\alpha= 6$	$\alpha= 8$	ORIFICE	$\alpha= 4$	$\alpha= 6$	$\alpha= 8$
4-90L	.04	.03	.05	6-8L	.25	.31	.36
4-95L	.07	.05	.07	6-14L	.11	.16	.21
5-0C	- .01 -	.52	.77	6-19L	.07	.11	.17
5-1.25U	- 1.07 -	1.52	1.23	6-38L	- .05 -	.03	.01
5-8U	- .51 -	.64	.55	6-44L	- .07 -	.05	.01
5-14U	- .45 -	.53	.58	6-60L	- .08 -	.08	.04
5-19U	- .43 -	.51	.42	6-70L	- 0 -	.01	.04
5-38U	- .30 -	.35	.36	7-0C	- .43 -	1.08	1.66
5-44U	- .25 -	.29	.29	7-5U	- .71 -	.89	1.00
5-60U	- .21 -	.23	.22	7-8U	- .54 -	.69	.76
5-70U	- .14 -	.16	.14	7-14U	- .43 -	.53	.57
5-80U	- .08 -	.08	.08	7-19U	- .39 -	.48	.50
5-90U	.01	.01	.03	7-38U	- .32 -	.36	.36
5-95U	.05	.05	.07	7-60U	- .18 -	.21	.20
5-1.25L	.61	.68	.71	7-90U	.03	.01	.03
5-2.5L	.46	.55	.61	7-95U	.08	.07	.08
5-5L	.28	.36	.42	7-1.25L	.63	.29	.71
5-8L	.21	.27	.33	7-2.5L	.46	.42	.61
5-14L	.12	.17	.22	7-5L	.30	.39	.45
5-19L	.04	.09	.13	7-8L	.20	.28	.34
5-38L	- .05 -	.03	.01	7-14L	.11	.17	.21
5-44L	- .05 -	.03	0	7-19L	.04	.09	.14
5-60L	- .09 -	.09	.05	7-32L	- .01 -	0	.05
5-70L	.01	.01	.04	7-44L	- .05 -	.04	0
5-90L	.05	.04	.05	7-60L	- .07 -	.07	.04
5-95L	.08	.07	.09	7-70L	- .04 -	.04	.01
6-0C	- .04 -	.59	1.07	7-90L	- .05 -	.04	.05
6-5U	- .72 -	.91	1.01	7-95L	.09	.08	.08
6-14U	- .45 -	.55	.59	8-0C	- .36 -	1.01	1.55
6-19U	- .03 -	.03	.01	8-1.25U	- 1.03 -	1.36	1.61
6-32U	- .11 -	.19	.20	8-2.5U	- .91 -	1.17	1.33
6-44U	- .12 -	.17	.18	8-5U	- .64 -	.83	.92
6-60U	- .20 -	.23	.21	8-8U	- .54 -	.67	.74
6-70U	- .16 -	.17	.16	8-14U	- .41 -	.51	.54
6-80U	- .07 -	.08	.07	8-19U	- .37 -	.45	.47
6-90U	- 0 -	0	.01	8-60U	- .09 -	.12	.11
6-100C	.13	.12	.09	8-80U	- .04 -	.05	.03
6-1.25L	.63	.69	.72	8-90U	.03	.01	.03
6-2.5L	.43	.52	.59	8-95U	- .07 -	.07	.04
6-5L	.30	.39	.58	8-100C	.14	.13	.13

TABLE 5.- CONTINUED  
(b)- Continued

ORIFICE	$\alpha=10$	$\alpha=12$	$\alpha=14$	ORIFICE	$\alpha=10$	$\alpha=12$	$\alpha=14$
4-90L	.04	.04	.05	6-8L	.40	.45	.50
4-95L	.05	.05	.05	6-14L	.25	.29	.74
5-0C	- 1.64	- 2.35	- 3.07	6-19L	.20	.24	.27
5-1.25U	- 1.77	- 2.13	- 2.62	6-38L	.04	.07	.08
5-8U	- .84	- .92	- 1.01	6-44L	- 0	.03	.05
5-14U	- .65	- .71	- .77	6-60L	- .04	.03	.01
5-19U	- .61	- .65	- .69	6-70L	.04	.05	.05
5-38U	- .39	- .40	- .42	7-0C	- 2.48	- 3.28	- 4.16
5-44U	- .33	- .33	- .35	7-5U	- 1.17	- 1.31	- 1.45
5-60U	- .24	- .24	- .23	7-8U	- .88	- .99	- 1.08
5-70U	- .16	- .16	- .15	7-14U	- .65	- .72	- .78
5-80U	- .08	- .08	- .07	7-19U	- .57	- .61	- .66
5-90U	.01	.01	.01	7-38U	- .40	- .40	- .42
5-95U	.05	.05	.04	7-60U	- .21	- .21	- .22
5-1.25L	.72	.71	.69	7-90U	.01	.03	.03
5-2.5L	.65	.68	.70	7-95U	.07	.07	.07
5-5L	.48	.53	.58	7-1.25L	.72	.69	.66
5-8L	.37	.43	.47	7-2.5L	.65	.68	.69
5-14L	.25	.29	.34	7-5L	.51	.55	.59
5-19L	.17	.17	.24	7-8L	.39	.44	.47
5-38L	.04	.07	.09	7-14L	.25	.29	.34
5-44L	.01	.05	.07	7-19L	.17	.20	.26
5-60L	- .05	- .03	- .01	7-32L	.07	.09	.12
5-70L	.04	.05	.05	7-44L	.01	.03	.05
5-90L	.05	.05	.05	7-60L	- .03	- .03	- .01
5-95L	.08	.07	.07	7-70L	- .01	- 0	- 0
6-0C	- 1.76	- 2.48	- 3.26	7-90L	.04	.04	.04
6-5U	- 1.19	- 1.32	- 1.46	7-95L	.05	.07	.07
6-14U	- .67	- .73	- .80	8-0C	- 2.35	- 3.11	- 3.95
6-19U	- .03	- .03	- .01	8-1.25U	- 1.97	- 2.27	- 2.61
6-32U	- .25	- .29	- .34	8-2.5U	- 1.57	- 1.77	- 1.99
6-44U	- .23	- .25	- .28	8-5U	- 1.08	- 1.21	- 1.34
6-60U	- .23	- .23	- .23	8-8U	- .85	- .95	- 1.04
6-70U	- .17	- .17	- .16	8-14U	- .63	- .68	- .73
6-80U	- .07	- .07	- .07	8-19U	- .55	- .59	- .64
6-90U	.01	.03	.04	8-60U	- .13	- .13	- .14
6-100C	.11	.09	.07	8-80U	- .05	- .04	- .04
6-1.25L	.72	.71	.68	8-90U	.03	.03	.03
6-2.5L	.64	.67	.69	8-95U	- .05	- .04	- .03
6-5L	.51	.55	.59	8-100C	.12	.11	.09

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TABLE 5.- CONTINUED  
(b)- Continued

ORIFICE	$\alpha=16$	$\alpha=18$	ORIFICE	$\alpha=16$	$\alpha=18$
4-90L	.03	.01	6-8L	.42	.21
4-95L	.04	.03	6-14L	.27	.12
5-0C	- 2.51 -	1.31	6-19L	.21	.09
5-1.25U	- 2.28 -	1.57	6-38L	.04 -	.01
5-8U	- .96 -	.75	6-44L	.01 -	.03
5-14U	- .75 -	.62	6-60L	- .04 -	.06
5-19U	- .68 -	.57	6-70L	- .03 -	.01
5-38U	- .42 -	.40	7-0C	- 3.83 -	2.32
5-44U	- .35 -	.34	7-5U	- 1.46 -	1.15
5-60U	- .24 -	.26	7-8U	- 1.11 -	.91
5-70U	- .17 -	.18	7-14U	- .80 -	.71
5-80U	- .65 -	.13	7-19U	- .69 -	.63
5-90U	- 0 -	.06	7-38U	- .45 -	.43
5-95U	.03 -	.03	7-60U	- .24 -	.26
5-1.25L	.65	.35	7-90U	- .01 -	.10
5-2.5L	.63	.32	7-95U	.03 -	.06
5-5L	.49	.22	7-1.25L	.62	.32
5-8L	.39	.19	7-2.5L	.66	.38
5-14L	.27	.10	7-5L	.54	.28
5-19L	.18	.06	7-8L	.42	.21
5-38L	.04 -	0	7-14L	.28	.15
5-44L	.03 -	.01	7-19L	.20	.09
5-60L	- .06 -	.06	7-32L	.07	.01
5-70L	.03 -	0	7-44L	.01 -	.03
5-90L	.03 -	0	7-60L	- .04 -	.07
5-95L	.04	.01	7-70L	- .04 -	.07
6-0C	- 2.80 -	1.65	7-90L	- 0 -	.04
6-5U	- 1.42 -	1.09	7-95L	.03 -	.03
6-14U	- .82 -	.74	8-0C	- 3.86 -	2.51
6-19U	- .03 -	.03	8-1.25U	- 2.63 -	1.85
6-32U	- .39 -	.43	8-2.5U	- 2.06 -	1.53
6-44U	- .34 -	.37	8-5U	- 1.42 -	1.16
6-60U	- .25 -	.26	8-8U	- 1.11 -	.94
6-70U	- .18 -	.21	8-14U	- .80 -	.72
6-80U	- .08 -	.13	8-19U	- .69 -	.65
6-90U	.03 -	.03	8-60U	- .17 -	.21
6-100C	.04 -	.01	8-80U	- .08 -	.16
6-1.25L	.63	.32	8-90U	- .01 -	.10
6-2.5L	.62	.29	8-95U	- .06 -	.09
6-5L	.52	.25	8-100C	.04 -	.06

TABLE 5. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$
8-1.25L	.23	.39	.51	11-32U	-.12	1.18	.20
8-2.5L	.09	.26	.37	12-32U	-.08	.14	.19
8-5L	-.01	.09	.20	TIP-32C	-.07	.11	.19
8-8L	-.07	.03	.11	11-32L	-.07	.05	.05
8-14L	-.09	.03	.04	10-32L	-.09	.09	.07
8-19L	-.11	.05	.01	10-70U	-.07	.07	.08
8-32L	-.12	.09	.05	11-70U	-.07	.09	.13
8-38L	-.12	.11	.08	12-70U	-.09	.15	.23
8-44L	-.14	.11	.09	TIP-70C	-.01	.01	.01
8-60L	-.08	.07	.07	12-70L	-.05	.11	.20
8-95L	.09	.09	.09	11-70L	-.05	.05	.08
9-0C	.73	.59	.36	10-70L	-.05	.05	.07
9-1.25U	-.18	.42	.63	FIN-1	-.05	.05	.05
9-2.5U	-.14	.47	.65	FIN-2	-.11	.11	.12
9-5U	-.14	.41	.52	FIN-3	.03	.04	.04
9-14U	-.12	.31	.33	FIN-4	.01	.01	.01
9-19U	-.23	.28	.32	FIN-5	.07	.07	.07
9-32U	-.20	.23	.25	FIN-6	.07	.07	.07
9-44U	-.14	.15	.16	FIN-7	-.76	.74	.75
9-70U	-.03	.03	.03	FIN-8	0	0	.01
9-80U	0	.01	0	FIN-9	-.01	.01	.01
9-100C	.16	.15	.13	FIN-10	-.01	.01	0
9-1.25L	.19	.34	.47	FIN-11	-.01	.01	.01
9-5L	0	.09	.20	FIN-12	0	0	0
9-8L	-.08	0	.08	FIN-13	-.54	.51	.52
9-14L	-.11	.05	0	FIN-14	-.16	.16	.15
9-19L	-.11	.07	.03	FIN-15	-.04	.03	.03
9-32L	-.15	.14	.11	FIN-16	-.01	.01	.01
9-38L	-.12	.11	.08	FIN-17	.01	.01	.01
9-44L	-.07	.07	.05	FIN-18	.01	.01	.01
9-70L	-.05	.05	.05	FIN-19	-.03	.03	.01
9-90L	.07	.05	.05	FIN-20	0	0	0
9-95L	.12	.11	.11	FIN-21	-.11	.11	.11
2S-60U	-.16	.18	.17	FIN-22	-.04	.04	.04
2S-60L	-.11	.09	.09	FIN-23	-.03	.03	.03
5S-60U	-.08	.07	.07	FIN-24	-.01	.01	0
5S-60L	-.09	.09	.08	FIN-25	-.20	.20	.20
8S-60U	-.15	.15	.16	FIN-26	-.12	.12	.12
8S-60L	-.09	.08	.07	FIN-27	-.07	.07	.07
10-32U	-.03	.01	.01	FIN-28	-.08	.07	.07



TABLE 5. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
8-1.25L	.60	.66	.68	11-32U	0	.30	.37
8-2.5L	.47	.54	.61	12-32U	0	.41	.53
8-5L	.28	.37	.43	TIP-32C	0	.41	.53
8-8L	.17	.25	.30	11-32L	0	.08	.09
8-14L	.09	.13	.20	10-32L	0	.05	.05
8-19L	.04	.08	.13	10-70U	0	.09	.12
8-32L	0	.01	.03	11-70U	0	.32	.39
8-38L	0	.01	0	12-70U	0	.36	.41
8-44L	0	.05	.03	TIP-70C	0	.01	.01
8-60L	0	.07	.07	12-70L	0	.51	.67
8-95L	.08	.08	.08	11-70L	0	.14	.18
9-0C	.03	.45	.93	10-70L	0	.08	.09
9-1.25U	0	1.07	1.32	FIN-1	0	.05	.17
9-2.5U	0	1.00	1.18	FIN-2	0	.11	.11
9-5U	0	.75	.87	FIN-3	0	.05	.07
9-14U	0	.46	.50	FIN-4	0	.01	.01
9-19U	0	.39	.43	FIN-5	0	.07	.07
9-32U	0	.29	.32	FIN-6	0	.07	.08
9-44U	0	.20	.20	FIN-7	0	.68	.68
9-70U	0	.04	.05	FIN-8	0	.04	.07
9-80U	0	.01	.01	FIN-9	0	0	.01
9-100C	.13	.12	.11	FIN-10	0	0	.01
9-1.25L	.55	.62	.66	FIN-11	0	.01	.01
9-5L	.28	.34	.41	FIN-12	0	0	.01
9-8L	.15	.21	.26	FIN-13	0	.43	.43
9-14L	.05	.11	.14	FIN-14	0	.13	.12
9-19L	0	.05	.08	FIN-15	0	.01	0
9-32L	0	.07	.04	FIN-16	0	0	.01
9-38L	0	.04	.03	FIN-17	0	.05	.04
9-44L	0	.01	.01	FIN-18	0	.01	.03
9-70L	0	.05	.05	FIN-19	0	.01	.01
9-90L	.04	.04	.04	FIN-20	0	0	.01
9-95L	.11	.11	.11	FIN-21	0	.11	.09
2S-60U	.17	.17	.17	FIN-22	0	.04	.03
2S-60L	.08	.07	.07	FIN-23	0	.03	.01
5S-60U	.07	.07	.07	FIN-24	0	0	.01
5S-60L	.07	.07	.05	FIN-25	0	.20	.20
8S-60U	.16	.16	.16	FIN-26	0	.13	.13
8S-60L	.07	.05	.04	FIN-27	0	.07	.07
10-32U	0	.01	.01	FIN-28	0	.07	.05

TABLE 5. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$
8-1.25L	.70	.68	.66	11-32U	-.43	-.48	-.57
8-2.5L	.64	.68	.69	12-32U	-.64	-.80	-.95
8-5L	.47	.53	.57	TIP-32C	-.67	-.85	1.01
8-8L	.36	.40	.45	11-32L	-.12	-.15	.19
8-14L	.22	.28	.31	10-32L	-.04	-.04	.04
8-19L	.17	.20	.24	10-70U	-.13	-.16	.22
8-32L	.05	.08	.11	11-70U	-.50	-.60	.68
8-38L	.01	.04	.07	12-70U	-.47	-.55	.61
8-44L	-.01	.01	.01	TIP-70C	.01	.03	.05
8-60L	-.05	.04	.05	12-70L	-.83	1.01	1.16
8-95L	.08	.07	.07	11-70L	-.22	.27	.30
9-0C	1.50	2.15	2.85	10-70L	-.11	.11	.12
9-1.25U	1.55	1.85	2.14	FIN-1	-.03	.03	.01
9-2.5U	1.37	1.59	1.78	FIN-2	-.11	.09	.09
9-5U	.99	1.11	1.23	FIN-3	.07	.08	.09
9-14U	.55	.60	.65	FIN-4	.01	0	.01
9-19U	.46	.51	.54	FIN-5	.07	.07	.07
9-32U	.33	.35	.36	FIN-6	.07	.08	.08
9-44U	.21	.23	.24	FIN-7	-.61	.57	.53
9-70U	.05	.08	.09	FIN-8	.07	.08	.11
9-80U	.03	.04	.05	FIN-9	.01	.03	.04
9-100C	.09	.07	.04	FIN-10	.01	.01	1.24
9-1.25L	.67	.68	.66	FIN-11	-.01	.01	.01
9-5L	.46	.51	.54	FIN-12	.01	.01	.01
9-8L	.32	.36	.39	FIN-13	-.37	.35	.34
9-14L	.18	.20	.24	FIN-14	-.11	.09	.08
9-19L	.12	.13	.16	FIN-15	0	.01	.01
9-32L	-.01	0	.01	FIN-16	.01	.03	.04
9-38L	-.01	0	.01	FIN-17	.05	.05	.07
9-44L	0	.01	.01	FIN-18	.03	.03	.03
9-70L	.05	.05	.07	FIN-19	-.01	.01	.01
9-90L	.04	.03	.01	FIN-20	.01	.01	.01
9-95L	.11	.09	.08	FIN-21	-.09	.08	.08
2S-60U	.17	.19	.19	FIN-22	-.03	.03	.03
2S-60L	.05	.05	.05	FIN-23	-.01	.01	.01
5S-60U	.07	.07	.07	FIN-24	.03	.03	.04
5S-60L	.04	.03	.03	FIN-25	-.18	.19	.18
8S-60U	.16	.16	.15	FIN-26	-.12	.12	.12
8S-60L	.04	.03	.01	FIN-27	-.07	.07	.07
10-32U	.03	.03	.04	FIN-28	-.07	.05	.05

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TABLE 5. - CONTINUED  
(b) - Concluded

ORIFICE	$\alpha = 16$	$\alpha = 18$	ORIFICE	$\alpha = 16$	$\alpha = 18$
8-1.25L	.62	.35	11-32U	.68	.64
8-2.5L	.65	.38	12-32U	1.06	.86
8-5L	.54	.30	TIP-32C	1.11	.88
8-8L	.41	.23	11-32L	.20	.23
8-14L	.27	.14	10-32L	.06	.11
8-19L	.20	.08	10-70U	.31	.38
8-32L	.07	.02	11-70U	.69	.53
8-38L	.03	.05	12-70U	.63	.52
8-44L	.01	.08	TIP-70C	.04	.02
8-60L	.07	.12	12-70L	.70	.73
8-95L	.01	.08	11-70L	.30	.27
9-0C	2.80	2.03	10-70L	.14	.18
9-1.25U	2.24	1.77	FIN-1	.01	.06
9-2.5U	1.89	1.53	FIN-2	.10	.15
9-5U	1.37	1.17	FIN-3	.08	.05
9-14U	.73	.73	FIN-4	.01	.08
9-19U	.59	1.06	FIN-5	.04	.02
9-32U	.41	.45	FIN-6	.06	0
9-44U	.30	.35	FIN-7	.46	.47
9-70U	.15	.23	FIN-8	.10	.08
9-80U	.10	.20	FIN-9	.03	.02
9-100C	.01	.12	FIN-10	.01	.03
9-1.25L	.63	.38	FIN-11	.03	.08
9-5L	.52	.32	FIN-12	0	.06
9-8L	.38	.21	FIN-13	.32	.36
9-14L	.21	.09	FIN-14	.08	.11
9-19L	.14	.03	FIN-15	.01	.02
9-32L	.01	.08	FIN-16	.03	0
9-38L	.01	.08	FIN-17	.06	.02
9-44L	0	.08	FIN-18	.01	.03
9-70L	.10	.15	FIN-19	.03	.06
9-90L	.01	.09	FIN-20	0	.05
9-95L	.04	.06	FIN-21	.08	.14
2S-60U	.21	.26	FIN-22	.04	.08
2S-60L	.07	.11	FIN-23	.03	.08
5S-60U	.08	.12	FIN-24	.04	.02
5S-60L	.04	.09	FIN-25	.20	.24
8S-60U	.17	.24	FIN-26	.14	.17
8S-60L	.06	.09	FIN-27	.07	.11
10-32U	.04	.02	FIN-28	.07	.11

TABLE 5. - CONTINUED  
(c)  $\beta$ , - 8°.

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$
1-0C	.31	.09	.12	3-1.25U	.84	1.14	1.39
1-1.25U	.78	.99	1.12	3-8U	.50	.61	.69
1-2.5U	.58	.74	.77	3-14U	.42	.50	.56
1-5U	.41	.39	.48	3-19U	.39	.46	.51
1-8U	.32	.41	.47	3-32U	.28	4.39	.37
1-14J	.22	.27	.32	3-60U	.18	.20	.21
1-19U	.23	.28	.32	3-70U	.14	.15	.16
1-32U	.16	.22	.24	3-95U	.07	.07	.07
1-70U	.19	.19	.20	3-1.25L	.59	.68	.72
1-80U	.08	.09	.09	3-2.5L	.41	.50	.56
1-90U	.04	.04	.04	3-5L	.22	.31	.37
1-95U	.05	.04	.03	3-8L	.16	.23	.29
1-2.5L	.47	.54	.57	3-14L	.05	1.35	.17
1-5L	.31	.36	.40	3-32L	.04	0	.03
1-14L	.14	.18	.21	3-38L	.23	.05	.01
1-19L	.07	.11	.16	3-60L	.09	.09	.07
1-32L	.04	.07	.12	3-80L	.01	.01	0
1-38L	.01	.01	.04	3-95L	.07	.07	.07
1-60L	.07	.05	.04	4-0C	.27	.16	.68
1-70L	.04	.03	.03	4-1.25U	.81	1.14	1.33
1-80L	.01	.01	0	4-2.5U	.73	1.00	1.09
2-1.25U	.91	.93	.97	4-14U	.53	.61	.67
2-2.5U	.72	.89	.97	4-19U	.39	.46	.52
2-5U	.55	.69	.93	4-32U	.31	.36	.40
2-32U	.24	.28	.32	4-38U	.34	.34	.35
2-38U	.31	.35	.37	4-60U	.24	.27	.28
2-44U	.22	.20	.21	4-70U	.11	.12	.13
2-70U	.11	.14	.15	4-90U	.01	0	.01
2-80U	.05	.07	.07	4-95U	.07	.07	.08
2-95U	.08	.08	.07	4-100C	.15	.14	.13
2-100C	.09	.08	.07	4-2.5L	.41	.51	.59
2-1.25L	.61	.69	.76	4-5L	.23	.32	.40
2-2.5L	.42	.50	.56	4-8L	.16	.24	.32
2-5L	.24	.32	.39	4-14L	.03	.08	.15
2-14L	.07	.12	.17	4-19L	.03	.03	.08
2-32L	.03	0	.03	4-32L	.04	0	.04
2-38L	.05	.03	0	4-38L	.11	.07	.03
2-44L	.07	.04	.03	4-44L	.09	.07	.03
2-70L	.05	.05	.05	4-60L	.08	.07	.04
2-95L	.07	.05	.05	4-80L	0	0	.01

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TABLE 5. -- CONTINUED  
(c) -- Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
1-0C	- .32	- .56	- .67	3-1.25U	- 1.65	- 1.99	- 2.19
1-1.25U	1.22	1.25	1.28	3-3U	.80	.89	.96
1-2.5U	- .80	- .83	- .84	3-14U	- .62	- .69	- .73
1-5U	- .54	- .57	- .57	3-19U	- .57	- .61	- .64
1-8U	- .50	- .51	- .52	3-32U	- .41	- .44	- .45
1-14U	- .35	- .37	- .37	3-60U	- .23	- .24	- .24
1-19U	- .36	- .37	- .39	3-70U	- .18	- .17	- .17
1-32U	- .28	- .31	- .32	3-95U	.05	.05	.05
1-70U	- .20	- .20	- .20	3-1.25L	.76	.76	.76
1-80U	- .11	- .12	- .13	3-2.5L	.64	.68	.69
1-90U	- .05	- .07	- .08	3-5L	.45	.51	.55
1-95U	.01	0	.01	3-8L	.35	.40	.44
1-2.5L	.59	.61	.64	3-14L	.22	.27	.31
1-5L	.43	.47	.49	3-32L	.05	.09	.12
1-14L	.24	.28	.31	3-38L	.01	.04	.07
1-19L	.19	.21	.24	3-60L	- .05	- .03	- .01
1-32L	.15	.17	.19	3-80L	- 0	.01	.01
1-38L	.07	.09	.11	3-95L	.07	.05	.09
1-60L	- .03	0	.01	4-0C	- 1.23	- 2.07	- 2.69
1-70L	- 0	.01	.03	4-1.25U	- 1.59	- 2.03	- 2.31
1-80L	.14	.01	.01	4-2.5U	- 1.59	- 1.56	- 1.73
2-1.25U	- 1.07	- 1.16	- 1.25	4-14U	- .73	- .80	- .85
2-2.5U	- 1.20	- 1.36	- 1.44	4-19U	- .58	- .63	- .68
2-5U	- .91	- 1.00	- 1.05	4-32U	- .43	- .47	- .49
2-32U	- .35	- .37	- .39	4-38U	- .38	- .40	- .43
2-38U	- .41	- .43	- .44	4-60U	- .28	- .29	- .31
2-44U	- .22	- .23	- .24	4-70U	- .15	- .15	- .16
2-70U	- .16	- .16	- .16	4-90U	.01	.01	.01
2-80U	- .07	- .07	- .08	4-95U	.07	.07	.07
2-95U	.07	.05	.05	4-100C	.12	.11	.09
2-100C	.05	.04	.03	4-2.5L	.64	.69	.72
2-1.25L	.76	.76	.76	4-5L	.46	.53	.57
2-2.5L	.61	.65	.68	4-8L	.38	.43	.47
2-5L	.43	.48	.25	4-14L	.19	.24	.29
2-14L	.16	.27	.29	4-19L	.14	.19	.23
2-32L	.05	.09	.11	4-32L	.07	.11	.13
2-38L	.01	.05	.07	4-38L	- 0	.04	.07
2-44L	0	.03	.04	4-44L	- .01	- .03	- .05
2-70L	.07	.08	.09	4-60L	- .03	0	.01
2-95L	.04	.04	.04	4-80L	.03	.03	.04

TABLE 5. - CONTINUED  
(c) - Continued

ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$
1-0C	- .69	- .73	- .64	3-1.25U	- 2.44	- 2.68	- 2.85
1-1.25U	- 1.27	- 1.30	- 1.36	3-8U	- 1.01	- 1.09	- 1.14
1-2.5U	- .83	- .92	- .88	3-14U	- .77	- .82	- .85
1-5U	- .56	- .58	- .59	3-19U	- .68	- .72	- .74
1-8U	- .51	- .53	- .53	3-32U	- .47	- .50	- .51
1-14J	- .37	- .39	- .40	3-60U	- .24	- .26	- .26
1-19U	- .39	- .41	- .41	3-70U	- .17	- .18	- .18
1-32U	- .33	- .35	- .37	3-95U	- .05	- .04	- .03
1-70U	- .20	- .22	- .22	3-1.25L	- .75	- .72	- .70
1-80U	- .13	- .16	- .16	3-2.5L	- .71	- .73	- .74
1-90U	- .09	- .11	- .11	3-5L	- .57	- .61	- .63
1-95U	- .01	- .03	- .04	3-8L	- .48	- .50	- .55
1-2.5L	.64	.66	.68	3-14L	.35	.32	.40
1-5L	.51	.51	.53	3-32L	.16	.18	.19
1-14L	.32	.32	.36	3-38L	.09	.11	.14
1-19L	.25	.27	.29	3-60L	- 0	.01	.03
1-32L	.20	.22	.23	3-80L	.03	.03	.04
1-38L	.12	.14	.15	3-95L	.05	.05	.05
1-60L	.03	.03	.04	4-0C	- 3.57	- 4.39	- 5.16
1-70L	.04	.04	.05	4-1.25U	- 2.65	- 2.99	- 3.27
1-80L	.03	.03	.04	4-2.5U	- 1.97	- 2.18	- 2.37
2-1.25U	- 1.37	- 1.50	- 1.60	4-14U	- .91	- .97	- 1.01
2-2.5U	- 1.51	- 1.58	- 1.62	4-19U	- .72	- .77	- .81
2-5U	- 1.09	- 1.14	- 1.15	4-32U	- .51	- .41	- .58
2-32U	- .40	- .42	- .44	4-38U	- .44	- .47	- .49
2-38U	- .45	- .47	- .48	4-60U	- .29	- .31	- .32
2-44U	- .25	- .27	- .27	4-70U	- .15	- .16	- .16
2-70U	- .17	- .19	- .21	4-90U	.01	0	0
2-80U	- .08	- .09	- .10	4-95U	.05	.05	.04
2-95U	.04	.03	.03	4-100C	.08	.07	.05
2-100C	.01	.01	0	4-2.5L	.73	.74	.75
2-1.25L	.75	.76	.74	4-5L	.60	.65	.68
2-2.5L	.69	.70	.71	4-8L	.51	.54	.58
2-5L	.55	.57	.58	4-14L	.33	.36	.41
2-14L	.45	.34	.36	4-19L	.27	.30	.33
2-32L	.13	.15	.16	4-32L	.17	.19	.22
2-38L	.09	.11	.12	4-38L	.09	.11	.14
2-44L	.07	.08	.10	4-44L	.08	.09	.11
2-70L	.09	.11	.11	4-60L	.03	.04	.05
2-95L	.04	.04	.04	4-80L	.05	.05	.05



ORIFICE	$\alpha = 16$	$\alpha = 18$	ORIFICE	$\alpha = 16$	$\alpha = 18$
1-0C	- .80	- .79	3-1.25U	- 2.59	- 1.93
1-1.25U	- 1.35	- 1.03	3-8U	- 1.07	- .96
1-2.5U	- .87	- .70	3-14U	- .82	- .73
1-5U	- .61	- .51	3-19U	- .70	- .64
1-8U	- .54	- .48	3-32U	- .51	- .45
1-14J	- .39	- .39	3-60U	- .27	- .27
1-19U	- .41	- .40	3-70U	- .17	- .16
1-32U	- .37	- .36	3-95U	- .03	- .04
1-70U	- .24	- .25	3-1.25L	- .65	- .31
1-80U	- .17	- .18	3-2.5L	- .66	- .40
1-90U	- .11	- .13	3-5L	- .56	- .36
1-95U	- .04	- .06	3-8L	- .46	- .34
1-2.5L	.66	.46	3-14L	.35	.27
1-5L	.54	.39	3-32L	.15	.15
1-14L	.34	.28	3-38L	.10	.10
1-19L	.28	.19	3-60L	.01	.03
1-32L	.23	.21	3-80L	.03	.03
1-38L	.15	.15	3-95L	.04	.01
1-60L	.04	.04	4-0C	- 4.58	- 3.00
1-70L	.06	.04	4-1.25U	- 3.01	- 2.01
1-80L	.03	.03	4-2.5U	- 2.18	- 1.57
2-1.25U	- 1.79	- 1.91	4-14U	- .99	- .87
2-2.5U	- 1.52	- 1.40	4-19U	- .79	- .70
2-5U	- 1.10	- 1.03	4-32U	- .56	- .51
2-32U	- .42	- .39	4-38U	- .52	- .55
2-38U	- .48	- .43	4-60U	- .34	- .34
2-44U	- .31	- .34	4-70U	- .17	- .21
2-70U	- .20	- .18	4-90U	- .03	- .09
2-80U	- .11	- .12	4-95U	- .01	- .04
2-95U	- .01	- .03	4-100C	- .03	- .01
2-100C	- 0	- .06	4-2.5L	- .68	- .31
2-1.25L	.69	.43	4-5L	- .59	- .31
2-2.5L	.66	.49	4-8L	.49	.28
2-5L	.54	.45	4-14L	.34	.21
2-14L	.32	.31	4-19L	.28	.18
2-32L	.15	.16	4-32L	.17	.13
2-38L	.10	.12	4-38L	.10	.09
2-44L	.08	.10	4-44L	.08	.07
2-70L	.10	.10	4-60L	.03	.03
2-95L	.03	- 0	4-80L	.04	.03

TABLE 5.- CONTINUED  
(c)- Continued

ORIFICE	$\alpha=-2$	$\alpha=0$	$\alpha=2$	ORIFICE	$\alpha=-2$	$\alpha=0$	$\alpha=2$
4-90L	.05	.05	.05	6-8L	.19	.27	.33
4-95L	.08	.08	.08	6-14L	.05	.12	.19
5-0C	.29	.13	.67	6-19L	0	.08	.13
5-1.25U	.88	1.25	1.69	6-38L	.08	.04	0
5-8U	.47	.57	.69	6-44L	.08	.05	.03
5-14U	.40	.49	.57	6-60L	.12	.08	.07
5-19U	.40	.48	.55	6-70L	.01	0	.03
5-38U	.29	.32	.36	7-0C	.05	.49	1.13
5-44U	.24	.28	.31	7-5U	.64	.77	.93
5-60U	.20	.23	.24	7-8U	.47	.60	.72
5-70U	.13	.15	.16	7-14U	.39	.47	.55
5-80U	.08	.08	.08	7-19U	.36	.43	.49
5-90U	.03	.01	.01	7-38U	.31	.35	.36
5-95U	.07	.07	.07	7-60U	.19	.20	.21
5-1.25L	.59	.68	.75	7-90U	.01	.01	.03
5-2.5L	.43	.53	.61	7-95U	.08	.09	.08
5-5L	.24	.33	.41	7-1.25L	.60	.69	.75
5-8L	.16	.25	.32	7-2.5L	.40	.52	.60
5-14L	.05	.13	.20	7-5L	.24	.33	.43
5-19L	0	.07	.12	7-8L	.13	.21	.31
5-38L	.08	.05	.01	7-14L	.03	.12	.19
5-44L	.07	.04	.01	7-19L	.01	.05	.11
5-60L	.12	.11	.08	7-32L	.05	.01	.03
5-70L	.01	.03	.04	7-44L	.08	.05	.01
5-90L	.05	.07	.07	7-60L	.08	.07	.05
5-95L	.09	.09	.08	7-70L	.05	.04	.03
6-0C	.32	.11	.65	7-90L	.05	.05	.05
6-5U	.65	.80	.96	7-95L	.09	.09	.09
6-14U	.43	.51	.57	8-0C	.13	.37	.99
6-19U	.04	.03	.03	8-1.25U	.80	1.13	1.40
6-32U	.37	.36	.36	8-2.5U	.77	.97	.93
6-44U	.31	.29	.29	8-5U	.59	.69	.85
6-60U	.20	.21	.23	8-8U	.45	.59	.68
6-70U	.17	.19	.19	8-14U	.36	.45	.51
6-80U	.07	.07	.07	8-19U	.33	.40	.45
6-90U	.01	0	0	8-60U	.13	.13	.13
6-100C	.16	.15	.15	8-80U	.04	.04	.04
6-1.25L	.60	.71	.76	8-90U	.03	.03	.03
6-2.5L	.37	.48	.57	8-95U	.07	.05	.05
6-5L	.24	.35	.43	8-100C	.16	.16	.15



TABLE 5.-- CONTINUED  
(c) - Continued

ORIFICE	$\alpha=4$	$\alpha=6$	$\alpha=8$	ORIFICE	$\alpha=4$	$\alpha=6$	$\alpha=8$
4-90L	.05	.07	.05	6-8L	.41	.46	.51
4-95L	.07	.08	.07	6-14L	.24	.30	.35
5-0C	- 1.30	- 2.07	- 2.85	6-19L	.18	.24	.28
5-1.25U	- 1.74	- 2.05	- 2.47	6-38L	.01	.07	.08
5-8U	- .82	- .92	- 1.04	6-44L	- .01	.03	.05
5-14U	- .66	- .72	- .80	6-60L	- .05	- .01	- .01
5-19U	- .62	- .66	- .73	6-70L	- .03	- .07	- .07
5-38U	- .39	- .41	- .45	7-0C	- 1.89	- 2.78	- 3.80
5-44U	- .34	- .34	- .37	7-5U	- 1.12	- 1.26	- 1.45
5-60U	- .26	- .25	- .27	7-8U	- .85	- .93	- 1.08
5-70U	- .18	- .16	- .17	7-14U	- .64	- .70	- .79
5-80U	- .09	- .08	- .09	7-19U	- .57	- .61	- .68
5-90U	- 0	.03	.01	7-38U	- .41	- .41	- .44
5-95U	.05	.07	.05	7-60U	- .23	- .22	- .24
5-1.25L	.77	.78	.76	7-90U	.01	.03	.03
5-2.5L	.66	.72	.75	7-95U	.08	.09	.08
5-5L	.47	.55	.60	7-1.25L	.77	.76	.75
5-8L	.38	.45	.48	7-2.5L	.66	.71	.75
5-14L	.24	.30	.35	7-5L	.49	.55	.60
5-19L	.16	.21	.25	7-8L	.36	.45	.49
5-38L	.01	.07	.08	7-14L	.24	.29	.33
5-44L	- 0	.05	.07	7-19L	.15	.21	.25
5-60L	- .07	- .03	- .03	7-32L	.04	.11	.12
5-70L	.04	.07	.07	7-44L	- .01	.03	.05
5-90L	.05	.07	.07	7-60L	- .04	- .01	- 0
5-95L	.08	.09	.08	7-76L	- .03	- 0	- 0
6-0C	- 1.28	- 2.08	- 2.95	7-90L	- .04	- .07	- .05
6-5U	- 1.15	- 1.29	- 1.48	7-95L	.08	.09	.08
6-14U	- .66	- .71	- .81	8-0C	- 1.70	- 2.54	- 2.20
6-19U	- .04	- .01	- .03	8-1.25U	- 1.76	- 2.11	- 2.52
6-32U	- .39	- .38	- .41	8-2.5U	- 1.46	- 1.67	- 1.96
6-44U	- .32	- .30	- .33	8-5U	- 1.03	- 1.14	- 1.33
6-60U	- .26	- .24	- .25	8-8U	- .82	- .91	- 1.04
6-70U	- .20	- .17	- .19	8-14U	- .61	- .64	- .75
6-80U	- .08	- .07	- .07	8-19U	- .54	- .57	- .65
6-90U	- 0	.01	.01	8-60U	- .15	- .13	- .15
6-100C	.12	.12	.11	8-80U	- .05	- .04	- .05
6-1.25L	.78	.78	.75	8-90U	.01	.03	.03
6-2.5L	.65	.70	.73	8-95U	- .05	- .03	- .03
6-5L	.49	.57	.61	8-100C	.12	.13	.11

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TABLE 5.- CONTINUED  
(c)- Continued

ORIFICE	$\alpha=1.0$	$\alpha=1.2$	$\alpha=1.4$	ORIFICE	$\alpha=1.0$	$\alpha=1.2$	$\alpha=1.4$
4-90L	.05	.05	.05	6-8L	.56	.59	.60
4-95L	.07	.05	.05	6-14L	.39	.42	.44
5-0C	- 3.80	- 4.77	- 5.78	6-19L	.32	.34	.36
5-1.25U	- 2.93	- 3.35	- 3.79	6-38L	.12	.12	.15
5-8U	- 1.16	- 1.28	- 1.44	6-44L	.08	.08	.10
5-14U	- .88	- .96	- 1.10	6-60L	- 0	- 0	.01
5-19U	- .77	- .85	- .97	6-70L	.08	.08	.10
5-38U	- .47	- .50	- .55	7-0C	- 4.87	- 2.22	- 2.10
5-44U	- .40	- .43	- .45	7-5U	- 1.61	- 1.74	- 1.84
5-60U	- .27	- .28	- .29	7-8U	- 1.20	- 1.58	- 1.68
5-70U	- .17	- .19	- .18	7-14U	- .87	- 1.19	- 1.29
5-80U	- .08	- .09	- .10	7-19U	- .73	- .96	- 1.05
5-90U	.01	0	.01	7-38U	- .47	- .50	- .52
5-95U	.05	.04	.01	7-60U	- .24	- .26	- .26
5-1.25L	.71	.65	.59	7-90U	.03	.03	.07
5-2.5L	.76	.76	.78	7-95U	.07	.01	.04
5-5L	.64	.68	.73	7-1.25L	.68	.70	.68
5-8L	.53	.57	.62	7-2.5L	.76	.74	.74
5-14L	.39	.42	.47	7-5L	.65	.65	.67
5-19L	.29	.32	.36	7-8L	.53	.54	.58
5-38L	.12	.14	.15	7-14L	.39	.39	.42
5-44L	.09	.11	.12	7-19L	.29	.30	.33
5-60L	- 0	.01	.01	7-32L	.16	.16	.18
5-70L	.08	.08	.08	7-44L	.09	.08	.10
5-90L	.07	.05	.04	7-60L	.01	.01	.01
5-95L	.07	.05	.04	7-70L	.01	- 0	- 0
6-0C	- 3.91	- 4.50	- 1.92	7-90L	.05	.03	- 0
6-5U	- 1.64	- 1.95	- 1.88	7-95L	.08	.04	.01
6-14U	- .88	- 1.03	- 1.30	8-0C	- 4.55	- 2.51	- 2.03
6-19U	- .01	- .03	- .03	8-1.25U	- 2.91	- 2.01	- 1.74
6-32U	- .44	- .47	- .52	8-2.5U	- 2.21	- 1.96	- 1.81
6-44U	- .35	- .38	- .41	8-5U	- 1.49	- 1.74	- 1.74
6-60U	- .27	- .27	- .30	8-8U	- 1.15	- 1.55	- 1.55
6-70U	- .17	- .18	- .21	8-14U	- .81	- 1.19	- 1.12
6-80U	- .07	- .08	- .12	8-19U	- .71	- .99	- .97
6-90U	.03	.03	.03	8-60U	- .15	- .16	- .16
6-100C	.08	.05	.01	8-80U	- .05	- .08	- .11
6-1.25L	.69	.66	.68	8-90U	.01	.03	.07
6-2.5L	.75	.77	.74	8-95U	- .01	- .03	- .03
6-5L	.67	.69	.68	8-100C	.09	.03	.04



TABLE 5.- CONTINUED  
(c)- Continued

ORIFICE	$\alpha=16$	$\alpha=18$		ORIFICE	$\alpha=16$	$\alpha=18$
4-90L	.03	0		6-8L	.54	.30
4-95L	.03	0		6-14L	.39	.23
5-0C	.86	2.98		6-19L	.31	.20
5-1.25U	3.59	2.29		6-38L	.11	.08
5-8U	1.40	1.14		6-44L	.07	.05
5-14U	1.07	.89		6-60L	.01	.03
5-19U	.94	.80		6-70L	.06	0
5-38U	.57	.55		7-0C	2.83	2.47
5-44U	.49	.45		7-5U	1.71	1.32
5-60U	.34	.35		7-8U	1.57	1.15
5-70U	.21	.26		7-14U	1.30	.94
5-80U	.14	.21		7-19U	1.14	.83
5-90U	.06	.14		7-38U	.70	.55
5-95U	.03	.12		7-60U	.39	.36
5-1.25L	.49	.14		7-90U	.14	.23
5-2.5L	.64	.29		7-95U	.11	.20
5-5L	.60	.30		7-1.25L	.61	.23
5-8L	.53	.30		7-2.5L	.71	.39
5-14L	.37	.23		7-5L	.64	.36
5-19L	.29	.18		7-8L	.54	.32
5-38L	.11	.09		7-14L	.40	.24
5-44L	.09	.08		7-19L	.30	.20
5-60L	.01	.02		7-32L	.16	.09
5-70L	.06	.03		7-44L	.07	.03
5-90L	.01	.02		7-60L	.01	.05
5-95L	.01	.03		7-70L	.03	.08
6-0C	3.03	2.55		7-90L	.04	.11
6-5U	1.96	1.41		7-95L	.04	.11
6-14U	1.36	1.08		8-0C	2.07	2.08
6-19U	.03	.05		8-1.25U	1.59	1.53
6-32U	.64	.70		8-2.5U	1.51	1.36
6-44U	.49	.55		8-5U	1.41	1.21
6-60U	.37	.38		8-8U	1.33	1.08
6-70U	.29	.30		8-14U	1.16	.91
6-80U	.19	.24		8-19U	1.11	.85
6-90U	.03	.02		8-60U	.20	.24
6-100C	.04	.15		8-80U	.21	.27
6-1.25L	.54	.15		8-90U	.17	.23
6-2.5L	.66	.27		8-95U	.06	.08
6-5L	.61	.32		8-100C	.13	.21

TABLE 5. - CONTINUED  
(c) - Continued

ORIFICE	$\alpha = .2$	$\alpha = 0$	$\alpha = .2$	ORIFICE	$\alpha = .2$	$\alpha = 0$	$\alpha = .2$
8-1.25L	.55	.66	.71	11-32U	-.24	.31	.36
8-2.5L	.41	.51	.59	12-32U	-.22	.32	.44
8-5L	.22	.31	.40	TIP-32C	-.15	.28	.39
8-8L	.12	.20	.27	11-32L	-.05	.04	.04
8-14L	.03	.11	.01	10-32L	-.07	.05	.03
8-19L	0	.05	.08	10-70U	-.11	.12	.11
8-32L	-.05	-.01	-.01	11-70U	-.18	.28	.36
8-38L	-.07	.04	.01	12-70U	-.34	.47	.57
8-44L	-.08	.07	.04	TIP-70C	-.01	.01	.01
8-60L	-.09	.08	.08	12-70L	-.18	.16	.44
8-95L	.09	.09	.08	11-70L	-.07	.09	.12
9-0C	.43	.07	.40	10-70L	-.07	.07	.07
9-1.25U	-.69	.95	1.12	FIN-1	-.15	.16	.17
9-2.5U	-.68	.86	1.04	FIN-2	-.35	.38	.41
9-5U	-.55	.66	.79	FIN-3	-.09	.09	.09
9-14U	-.36	.84	.48	FIN-4	-.01	.01	.03
9-19U	-.32	.39	.43	FIN-5	-.12	.12	.13
9-32U	-.27	.30	.32	FIN-6	-.12	.26	.13
9-44U	-.19	.20	.21	FIN-7	2.01	2.11	2.23
9-70U	-.07	.07	.08	FIN-8	-.04	.03	.01
9-80U	-.01	.01	.03	FIN-9	-.03	.03	.04
9-100C	.15	.14	.13	FIN-10	-.01	.01	.03
9-1.25L	.50	.61	.67	FIN-11	-.04	.04	.05
9-5L	.22	.30	.37	FIN-12	-.04	.05	.05
9-8L	.08	.16	.23	FIN-13	1.14	1.34	1.49
9-14L	0	.07	.12	FIN-14	-.20	.20	.19
9-19L	-.03	.01	.05	FIN-15	-.01	.01	0
9-32L	-.09	.07	.05	FIN-16	0	.01	.01
9-38L	-.08	.05	.04	FIN-17	-.01	.03	.04
9-44L	-.05	.03	.01	FIN-18	-.05	.05	.07
9-70L	-.05	.05	.05	FIN-19	-.01	.03	.03
9-90L	.05	.05	.05	FIN-20	-.03	.04	.04
9-95L	.11	.11	.11	FIN-21	-.09	.09	.08
2S-60U	-.18	.19	.19	FIN-22	0	0	0
2S-60L	-.09	.08	.07	FIN-23	0	0	.01
5S-60U	-.09	.08	.08	FIN-24	-.01	.01	0
5S-60L	-.07	.05	.05	FIN-25	-.20	.20	.20
8S-60U	-.18	.18	.17	FIN-26	-.11	.11	.11
8S-60L	-.07	.07	.05	FIN-27	-.07	.05	.05
10-32U	-.03	.01	0	FIN-28	-.07	.05	.05

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TABLE 5. - CONTINUED  
(c) - Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
8-1.25L	.74	.75	.73	11-32U	.43	.53	.57
8-2.5L	.66	.71	.73	12-32U	.59	.76	.93
8-5L	.47	.53	.59	TIP-32C	.54	.72	.92
8-8L	.34	.40	.45	11-32L	.04	.07	.09
8-14L	.20	.25	.31	10-32L	.01	.01	0
8-19L	.14	.19	.23	10-70U	.12	.15	.17
8-32L	.04	.08	.11	11-70U	.49	.60	.73
8-38L	0	.04	.07	12-70U	.66	.69	.73
8-44L	.01	0	.03	TIP-70C	0	.01	.03
8-60L	.08	.08	.07	12-70L	.64	.84	1.07
8-95L	.08	.08	.08	11-70L	.15	.20	.24
9-0C	.96	1.65	2.45	10-70L	.08	.08	.09
9-1.25U	1.41	1.71	2.05	FIN-1	.16	.16	.16
9-2.5U	1.28	1.51	1.75	FIN-2	.39	.37	.39
9-5U	.93	1.08	1.23	FIN-3	.07	.05	.04
9-14U	.55	.60	.65	FIN-4	.03	.04	.05
9-19U	.47	.51	.55	FIN-5	.14	.12	.13
9-32U	.35	.36	.39	FIN-6	.14	.13	.15
9-44U	.23	.24	.25	FIN-7	2.05	1.92	1.95
9-70U	.09	.11	.12	FIN-8	.01	.03	.04
9-80U	.04	.04	.05	FIN-9	.05	.05	.05
9-100C	.12	.11	.08	FIN-10	.04	.04	.07
9-1.25L	.73	.73	.73	FIN-11	.04	.04	.05
9-5L	.45	.51	.56	FIN-12	.05	.05	.07
9-8L	.28	.35	.40	FIN-13	1.47	1.44	1.52
9-14L	.16	.33	.25	FIN-14	.18	.16	.15
9-19L	.09	.13	.17	FIN-15	0	0	.03
9-32L	.03	0	.03	FIN-16	.03	.03	.04
9-38L	.01	0	.03	FIN-17	.05	.05	.07
9-44L	0	.01	.04	FIN-18	.07	.07	.07
9-70L	.05	.05	.04	FIN-19	.03	.03	.03
9-90L	.04	.04	.04	FIN-20	.04	.04	.05
9-95L	.11	.09	.09	FIN-21	.08	.08	.08
2S-60U	.19	.20	.20	FIN-22	0	0	0
2S-60L	.07	.05	.05	FIN-23	.01	.01	.01
5S-60U	.08	.08	.08	FIN-24	0	.01	.07
5S-60L	.04	.03	.01	FIN-25	.20	.20	.19
3S-60U	.19	.19	.19	FIN-26	.11	.07	.11
8S-60L	.04	.16	.01	FIN-27	.05	.05	.05
10-32U	0	0	.01	FIN-28	.05	.05	.05

TABLE 5. - CONTINUED  
(c) - Continued

ORIFICE	$\alpha = 1.0$	$\alpha = 1.2$	$\alpha = 1.4$	ORIFICE	$\alpha = 1.0$	$\alpha = 1.2$	$\alpha = 1.4$
8-1.25L	.69	.72	.68	11-32U	-.70	-.73	-.70
8-2.5L	.74	.61	.74	12-32U	- 1.16	- 1.20	-.82
8-5L	.62	.62	.64	TIP-32C	- 1.16	- 1.23	1.14
8-8L	.49	.50	.53	11-32L	-.14	-.15	.15
8-14L	.34	.35	.38	10-32L	-.01	0	0
8-19L	.26	.27	.29	10-70U	-.24	-.39	-.52
8-32L	.12	.14	.15	11-70U	-.85	-.69	-.44
8-38L	.07	.08	.10	12-70U	-.82	-.58	-.36
8-44L	.04	.04	.05	TIP-70C	.01	.03	.04
8-60L	-.08	-.08	-.08	12-70L	- 1.30	- 1.09	-.77
8-95L	.05	.03	.01	11-70L	-.30	-.26	-.21
9-0C	- 3.35	- 1.49	- 1.51	10-70L	-.12	-.11	-.08
9-1.25U	- 2.45	- 1.57	- 1.68	FIN-1	-.16	-.15	-.14
9-2.5U	- 2.01	- 1.47	- 1.66	FIN-2	-.39	-.38	-.37
9-5U	- 1.39	- 1.35	- 1.56	FIN-3	-.03	-.01	-.01
9-14U	-.74	-.93	- 1.15	FIN-4	.04	.05	.07
9-19U	-.61	-.78	-.95	FIN-5	.12	.14	.15
9-32U	-.42	-.45	-.47	FIN-6	.14	.15	.16
9-44U	-.28	-.30	-.32	FIN-7	- 1.88	- 1.85	- 1.81
9-70U	-.15	-.15	-.18	FIN-8	.05	.08	.11
9-80U	-.07	-.11	-.15	FIN-9	.07	.08	.10
9-100C	.04	.04	.11	FIN-10	.05	.07	.08
9-1.25L	.70	.72	.73	FIN-11	.04	.05	.05
9-5L	.59	.58	.60	FIN-12	.05	.07	.07
9-8L	.45	.43	.47	FIN-13	- 1.57	- 1.61	- 1.67
9-14L	.27	.27	.30	FIN-14	-.14	-.12	-.08
9-19L	.19	.19	.22	FIN-15	.01	.04	.05
9-32L	.03	.04	.05	FIN-16	.04	.05	.07
9-38L	.03	.04	.05	FIN-17	.07	.08	.10
9-44L	.04	.05	.05	FIN-18	.05	.07	.08
9-70L	-.07	-.05	-.07	FIN-19	.03	.03	.04
9-90L	.01	0	.01	FIN-20	.04	.05	.05
9-95L	.07	.04	.01	FIN-21	-.08	-.08	-.05
2S-60U	-.22	-.22	-.22	FIN-22	-.01	0	0
2S-60L	-.05	-.05	-.04	FIN-23	0	.01	.01
5S-60U	-.09	-.09	-.10	FIN-24	.01	.03	.04
5S-60L	-.01	-.01	-.01	FIN-25	-.20	-.19	-.19
6S-60U	-.19	-.19	-.19	FIN-26	-.12	-.12	-.12
8S-60L	-.03	-.01	-.01	FIN-27	-.07	-.05	-.05
10-32U	.01	.03	.04	FIN-28	-.05	-.05	-.04

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TABLE 5. - CONCLUDED  
(c) - Concluded

ORIFICE	$\alpha = .16$	$\alpha = .18$	ORIFICE	$\alpha = .16$	$\alpha = .18$
8-1.25L	.56	.35	11-32U	-.73	-.58
8-2.5L	.73	.44	12-32U	-.89	-.70
8-5L	.63	.39	TIP-32C	- 1.09	-.80
8-8L	.51	.33	11-32L	-.16	-.17
8-14L	.37	.24	10-32L	.01	.03
8-19L	.29	.18	10-70U	-.54	-.45
8-32L	.14	.08	11-70U	-.43	-.36
8-38L	.09	.03	12-70U	-.37	-.33
8-44L	.04	0	TIP-70C	.04	.03
8-60L	-.10	-.12	12-70L	-.67	-.52
8-95L	-.07	-.12	11-70L	-.21	-.21
9-0C	- 1.34	- 1.47	10-70L	-.11	-.14
9-1.25U	- 1.34	- 1.33	FIN-1	-.13	-.12
9-2.5U	- 1.29	- 1.23	FIN-2	-.31	-.27
9-5U	- 1.21	- 1.09	FIN-3	.04	.06
9-14U	- 1.07	-.89	FIN-4	.04	.03
9-19U	-.96	-.73	FIN-5	.11	.08
9-32U	-.67	-.55	FIN-6	.14	.11
9-44U	-.50	-.44	FIN-7	- 1.53	- 1.26
9-70U	-.30	-.30	FIN-8	.13	.14
9-80U	-.30	-.30	FIN-9	.09	.08
9-100C	-.26	-.27	FIN-10	.07	.06
9-1.25L	.69	.42	FIN-11	.03	0
9-5L	.60	.41	FIN-12	.04	.02
9-8L	.47	.32	FIN-13	- 1.44	- 1.23
9-14L	.30	.21	FIN-14	-.07	-.06
9-19L	.07	.14	FIN-15	.06	.05
9-32L	.06	.02	FIN-16	.06	.06
9-38L	.04	0	FIN-17	.09	.08
9-44L	.04	0	FIN-18	.06	.05
9-70L	-.09	-.12	FIN-19	.01	0
9-90L	-.07	-.11	FIN-20	.03	.02
9-95L	-.07	-.11	FIN-21	-.07	-.08
2S-60U	-.24	-.26	FIN-22	-.01	-.03
2S-60L	-.06	-.08	FIN-23	- 0	-.02
5S-60U	-.11	-.14	FIN-24	.04	.03
5S-60L	-.03	-.06	FIN-25	-.20	-.21
8S-60U	-.27	-.29	FIN-26	-.14	-.15
8S-60L	-.04	-.06	FIN-27	-.07	-.09
10-32U	.07	.03	FIN-28	-.06	-.08

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TABLE 6. - PRESSURE COEFFICIENTS OVER THE TAIL FOR THE MODEL IN SIDESLIP, CLEAN CONDITION;  $\delta_e, 0^\circ$ . (a)  $\alpha, 0^\circ$ .

ORIFICE	$\beta = -12$	$\beta = -8$	$\beta = -6$	ORIFICE	$\beta = -12$	$\beta = -8$	$\beta = -6$
1-0C	- 1.32	.07	.50	3-1.25U	- 1.93	- 1.14	.72
1-1.25U	- 1.85	- 1.00	.61	3-8U	- .89	- .47	.47
1-2.5U	- 1.19	.74	.46	3-14U	- .69	.50	.39
1-5U	- .77	.41	.36	3-19U	- .61	.46	.38
1-8U	- .65	.41	.30	3-32U	- .43	.32	.28
1-14J	- .43	.27	.19	3-60U	- .23	.20	.18
1-19U	- .39	.28	.23	3-70U	- .16	.15	.14
1-32U	- .27	.22	.18	3-95U	.07	.07	.05
1-70U	- .34	.19	.19	3-1.25L	.82	.68	.54
1-80U	- .08	.09	.09	3-2.5L	.72	.50	.36
1-90U	- .03	.04	.04	3-5L	.53	.31	.18
1-95U	.05	.04	.04	3-8L	.42	.23	.12
1-2.5L	.77	.54	.38	3-14L	.27	.11	.03
1-5L	.59	.38	.23	3-32L	.09	-	.05
1-14L	.34	.18	.08	3-38L	.04	.05	.09
1-19L	.26	.11	.03	3-60L	.04	.09	.12
1-32L	.19	.08	.01	3-80L	.01	.01	.03
1-38L	.12	.01	.03	3-95L	.07	.07	.07
1-60L	.01	.05	.08	4-0C	- 1.69	- .16	.31
1-70L	.04	.03	.07	4-1.25U	- 1.89	- 1.12	.74
1-80L	.04	.01	.04	4-2.5U	- 1.49	.99	.68
2-1.25U	- .88	.27	.08	4-14U	- .78	.59	.51
2-2.5U	- 1.47	.89	.62	4-19U	- .62	.46	.38
2-5U	- 1.08	.69	.65	4-32U	- .46	.36	.31
2-32U	- .36	.28	.24	4-38U	- .41	.31	.27
2-38U	- .41	.35	.31	4-60U	- .30	.27	.24
2-44U	- .22	.16	.15	4-70U	- .15	.12	.09
2-70U	- .14	.14	.12	4-90U	.01	.01	-
2-80U	- .05	.07	.07	4-95U	.08	.07	.07
2-95U	.08	.08	.07	4-100C	.14	.15	.15
2-100C	.08	.09	.09	4-2.5L	.73	.50	.38
2-1.25L	.84	.69	.54	4-5L	.53	.32	.20
2-2.5L	.72	.50	.36	4-8L	.42	.23	.15
2-5L	.54	.32	.19	4-14L	.23	.08	-
2-14L	.28	.12	.03	4-19L	.16	.03	.04
2-32L	.11	-	.05	4-32L	.09	-	.04
2-38L	.05	.03	.08	4-38L	.01	.07	.11
2-44L	.04	.05	.09	4-44L	.01	.07	.09
2-70L	.09	.05	.03	4-60L	-	.07	.08
2-95L	.07	.05	.05	4-80L	.03	-	.01



TABLE 6. - CONTINUED  
(a) - Continued

ORIFICE	$\beta = 4$	$\beta = 2$	$\beta = 1$	ORIFICE	$\beta = 4$	$\beta = 2$	$\beta = 0$
1-0C	.74	.70	.54	3-1.25U	.38	.07	.07
1-1.25U	.22	.12	.24	3-8U	.32	.20	.14
1-2.5U	.18	.07	.16	3-14U	.30	.22	.18
1-5U	.18	.01	.08	3-19U	.30	.23	.19
1-8U	.16	.03	.03	3-32U	.23	.19	.19
1-14J	.12	.03	0	3-60U	.16	.14	.12
1-19U	.16	.08	.05	3-70U	.12	.09	.09
1-32U	.14	.09	.08	3-95U	.05	.04	.04
1-70U	.18	.18	.18	3-1.25L	.36	.15	.03
1-80U	.08	.08	.08	3-2.5L	.19	0	.11
1-90U	.05	.05	.05	3-5L	.03	.12	.19
1-95U	.04	.03	.03	3-8L	0	.11	.15
1-2.5L	.18	.07	.18	3-14L	.07	.15	.18
1-5L	.05	.12	.20	3-32L	.11	.16	.18
1-14L	.03	.11	.16	3-38L	.15	.19	.20
1-19L	.05	.12	.16	3-60L	.14	.16	.18
1-32L	.03	.07	.11	3-80L	.04	.05	.05
1-38L	.08	.12	.16	3-95L	.07	.05	.05
1-60L	.12	.15	.16	4-0C	.62	.73	.72
1-70L	.04	.12	.14	4-1.25U	.39	.09	.04
1-80L	.05	.08	.08	4-2.5U	.39	.15	.04
2-1.25U	.09	.23	.28	4-14U	.35	.27	.22
2-2.5U	.34	.09	.01	4-19U	.30	.23	.19
2-5U	.32	.15	.07	4-32U	.26	.20	.18
2-32U	.19	.15	.12	4-38U	.23	.19	.18
2-38U	.28	.24	.22	4-60U	.23	.22	.20
2-44U	.12	.11	.09	4-70U	.08	.05	.04
2-70U	.11	.09	.09	4-90U	0	0	0
2-80U	.05	.05	.05	4-95U	.07	.05	.05
2-95U	.05	.05	.05	4-100C	.15	.15	.15
2-100C	.09	.09	.09	4-2.5L	.20	.04	.07
2-1.25L	.34	.09	.04	4-5L	.07	.05	.14
2-2.5L	.18	.04	.15	4-8L	.04	.05	.11
2-5L	.03	.14	.22	4-14L	.09	.18	.22
2-14L	.05	.16	.20	4-19L	.11	.18	.22
2-32L	.11	.16	.19	4-32L	.09	.14	.16
2-38L	.12	.18	.20	4-38L	.15	.19	.20
2-44L	.14	.18	.19	4-44L	.14	.16	.19
2-70L	.03	.05	.08	4-60L	.11	.14	.14
2-95L	.05	.09	.05	4-80L	1.34	.03	.04



TABLE 6. - CONTINUED  
(a) - Continued

ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$	ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$
1-0C	.37	.43	.41	3-1.25U	.17	.27	.36
1-1.25U	.35	.43	.46	3-8U	.08	.03	.01
1-2.5U	.25	.31	.34	3-14U	.13	.09	.05
1-5U	.15	.18	.19	3-19U	.16	.12	.09
1-8U	.08	.09	.11	3-32U	.16	.14	.11
1-14U	.03	.04	.05	3-60U	.12	.12	.11
1-19U	.09	.03	.03	3-70U	.08	.07	.04
1-32U	.05	.07	.05	3-95U	.04	.04	.04
1-70U	.16	.16	.16	3-1.25L	.09	.23	.39
1-80U	.08	.11	.12	3-2.5L	.20	.30	.42
1-90U	.05	.07	.08	3-5L	.27	.35	.43
1-95U	.03	.03	.03	3-8L	.20	.26	.31
1-2.5L	.28	.41	.49	3-14L	.20	.24	.28
1-5L	.27	.36	.46	3-32L	.20	.22	.23
1-14L	.20	.24	.30	3-38L	.21	.23	.26
1-19L	.20	.24	.28	3-60L	.17	.19	.20
1-32L	.12	.15	.18	3-80L	.05	.07	.07
1-38L	.17	.20	.22	3-95L	.07	.05	.05
1-60L	.16	.18	.19	4-0C	.68	.62	.49
1-70L	.13	.15	.15	4-1.25U	.13	.23	.32
1-80L	.08	.09	.09	4-2.5U	.04	.14	.20
2-1.25U	.56	.35	.14	4-14U	.16	.12	.08
2-2.5U	.09	.18	.26	4-19U	.16	.12	.09
2-5U	.01	.05	.12	4-32U	.16	.14	.12
2-32U	.12	.11	.08	4-38U	.19	.18	.15
2-50U	.21	.20	.18	4-60U	.20	.19	.18
2-70U	.13	.12	.24	4-70U	.04	.01	.01
2-80U	.09	.08	.08	4-90U	0	0	0
2-80U	.05	.05	.05	4-95U	.05	.05	.05
2-95U	.05	.05	.04	4-100C	.15	.15	.14
2-100C	.09	.09	.08	4-2.5L	.16	.26	.36
2-1.25L	.17	.32	.51	4-5L	.20	.27	.34
2-2.5L	.24	.36	.50	4-8L	.16	.22	.27
2-5L	.29	.38	.49	4-14L	.25	.30	.34
2-14L	.24	.27	.31	4-19L	.24	.27	.31
2-32L	.20	.23	.24	4-32L	.17	.19	.22
2-38L	.20	.23	.26	4-38L	.23	.24	.26
2-44L	.20	.22	.23	4-44L	.20	.22	.23
2-70L	.08	.09	.09	4-60L	.15	.16	.16
2-95L	.05	.05	.05	4-80L	.04	.04	.04



TABLE 6. -- CONTINUED  
(a) -- Continued

ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$	ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$
1-0C	.47	.18	.32	3-1.25U	.50	.58	.58
1-1.25U	.22	.31	.43	3-8U	.11	.20	.24
1-2.5U	.16	.23	.36	3-14U	.01	.08	.12
1-5U	.11	.18	.27	3-19U	-	.04	.05
1-8U	.07	.12	.19	3-32U	-	.07	0
1-14J	.05	.08	.11	3-60U	-	.09	.07
1-19U	-	.01	.03	3-70U	-	.04	0
1-32U	-	.05	.04	3-95U	-	.03	0
1-70U	-	.15	.15	3-1.25L	-	.72	1.22
1-80U	-	.09	.11	3-2.5L	-	.62	1.05
1-90U	-	.05	.08	3-5L	-	.58	.88
1-95U	.01	0	.01	3-8L	-	.43	.64
1-2.5L	-	.38	.57	3-14L	-	.36	.51
1-5L	-	.39	.47	3-32L	-	.27	.32
1-14L	-	.32	.35	3-38L	-	.28	.31
1-19L	-	.32	.34	3-60L	-	.20	.20
1-32L	-	.24	.27	3-80L	-	.07	.07
1-38L	-	.26	.27	3-95L	-	.05	.04
1-60L	-	.20	.20	4-0C	-	.11	1.23
1-70L	-	.16	.18	4-1.25U	-	.47	.59
1-80L	-	.11	.12	4-2.5U	-	.34	.51
2-1.25U	.03	.12	.24	4-14U	-	.01	.09
2-2.5U	.26	.45	.42	4-19U	1.32	.03	.08
2-5U	.23	.30	.28	4-32U	-	.08	0
2-32U	-	.04	0	4-38U	-	.12	.05
2-38U	-	.14	.13	4-60U	-	.15	.12
2-44U	-	.09	.07	4-70U	0	.01	.01
2-70U	-	.07	.05	4-90U	-	.01	0
2-80U	-	.05	.05	4-95U	-	.05	.04
2-95U	.03	.01	0	4-100C	-	.14	.09
2-100C	.07	.03	0	4-2.5L	-	.57	1.04
2-1.25L	-	.86	1.00	4-5L	-	.50	.81
2-2.5L	-	.73	.86	4-8L	-	.38	.62
2-5L	-	.62	.70	4-14L	-	.42	.57
2-14L	-	.39	.46	4-19L	-	.36	.49
2-32L	-	.28	.32	4-32L	-	.26	.31
2-38L	-	.28	.31	4-38L	-	.30	.34
2-44L	-	.26	.28	4-44L	-	.26	.28
2-70L	-	.12	.16	4-60L	-	.19	.19
2-95L	.04	.03	0	4-80L	-	.05	.05

ORIFICE	$\beta = 1.2$		ORIFICE	$\beta = 1.2$	
1-0C	- 1.04		3-1.25U	.50	
1-1.25U	.54		3-8U	.30	
1-2.5U	.46		3-14U	.18	
1-5U	.35		3-19U	.11	
1-8U	.24		3-32U	.04	
1-14J	.15		3-60U	- .04	
1-19U	.05		3-70U	- .04	
1-32U	- .03		3-95U	- .03	
1-70U	- .16		3-1.25L	- 1.58	
1-80U	- .11		3-2.5L	- 1.28	
1-90U	- .08		3-5L	- 1.01	
1-95U	- .01		3-8L	- .74	
1-2.5L	- .86		3-14L	- .59	
1-5L	- .66		3-32L	- .38	
1-14L	- .43		3-38L	- .35	
1-19L	- .41		3-60L	- .19	
1-32L	- .32		3-80L	- .09	
1-38L	- .31		3-95L	- .01	
1-60L	- .24		4-0C	- 2.88	
1-70L	- .20		4-1.25U	.53	
1-80L	- .15		4-2.5U	.55	
2-1.25U	.31		4-14U	.15	
2-2.5U	.45		4-19U	.15	
2-5U	.32		4-32U	.05	
2-32U	.03		4-38U	- 0	
2-38U	- .09		4-60U	- .08	
2-44U	- .05		4-70U	- .04	
2-70U	- .03		4-90U	- 0	
2-80U	- .05		4-95U	.03	
2-95U	- .03		4-100C	.07	
2-100C	- .03		4-2.5L	- 1.45	
2-1.25L	- 1.41		4-5L	- 1.08	
2-2.5L	- 1.14		4-8L	- .82	
2-5L	- .89		4-14L	- .68	
2-14L	- .54		4-19L	- .57	
2-32L	- .36		4-32L	- .36	
2-38L	- .35		4-38L	- .36	
2-44L	- .31		4-44L	- .31	
2-70L	- .16		4-60L	- .20	
2-95L	- .01		4-80L	- .05	



TABLE 6. - CONTINUED  
(a) - Continued

ORIFICE	$\beta = -12$	$\beta = -8$	$\beta = -6$	ORIFICE	$\beta = -12$	$\beta = -8$	$\beta = -6$
4-90L	.05	.04	.05	6-8L	.42	.26	.17
4-95L	.08	.07	.08	6-14L	.26	.11	.05
5-0C	- 1.53	- .16	.31	6-19L	.19	.07	.03
5-1.25U	- 1.89	- 1 .28	- .84	6-38L	.01	- .05	- .08
5-8U	- .89	- .59	- .45	6-44L	- .01	- .07	- .09
5-14U	- .72	- .51	- .39	6-60L	- .05	- .09	- .11
5-19U	- .66	- .50	- .40	6-70L	- .03	- .01	- .01
5-38U	- .43	- .34	- .28	7-0C	- 2.00	- .51	.03
5-44U	- .36	- .28	- .24	7-5U	- 1.18	- .80	.63
5-60U	- .27	- .24	- .20	7-8U	- .89	- .61	.45
5-70U	- .19	- .16	- .13	7-14U	- .68	- .49	.37
5-80U	- .09	- .09	- .08	7-19U	- .59	- .45	.35
5-90U	.01	0	.01	7-38U	- .43	- .36	.31
5-95U	.07	.05	.05	7-60U	- .26	- .22	.19
5-1.25L	.82	.68	.56	7-90U	.01	0	.01
5-2.5L	.72	.53	.40	7-95U	.08	.07	.08
5-5L	.53	.32	.21	7-1.25L	.82	.69	.59
5-8L	.41	.24	.16	7-2.5L	.72	.51	.39
5-14L	.27	.12	.05	7-5L	.51	.32	.23
5-19L	.18	.05	0	7-8L	.38	.22	.13
5-38L	.01	- .07	- .08	7-14L	.23	.09	.04
5-44L	.01	- .05	- .08	7-19L	.15	.04	.01
5-60L	- .07	- .12	- .13	7-32L	.05	- .03	- .05
5-70L	.04	.01	.01	7-44L	- .01	- .07	- .08
5-90L	.05	.05	.05	7-60L	- .05	- .08	- .08
5-95L	.08	.08	.08	7-70L	- .03	- .05	- .05
6-0C	- 1.42	- .12	.31	7-90L	- .04	- .04	- .05
6-5U	- 1.22	- .81	.64	7-95L	.09	.08	.09
6-14U	- .72	- .51	.41	8-0C	- 1.74	- .39	.08
6-19U	- .05	- .04	.03	8-1.25U	- 1.82	- 1.14	.80
6-32U	- .36	- .26	.21	8-2.5U	- 1.51	- 1.00	.76
6-44U	- .30	- .23	.19	8-5U	- 1.07	- .72	.57
6-60U	- .27	- .23	.20	8-8U	- .85	- .59	.44
6-70U	- .20	- .19	.16	8-14U	- .64	- .46	.36
6-80U	- .09	- .08	.07	8-19U	- .55	- .42	.32
6-90U	- .03	- .03	.01	8-60U	- .09	- .09	.08
6-100C	.12	.15	.16	8-80U	- .07	- .05	.04
6-1.25L	.82	.69	.59	8-90U	.01	.01	.03
6-2.5L	.69	.49	.36	8-95U	- .05	- .07	- .07
6-5L	.53	.34	.23	8-100C	.14	.15	.16

TABLE 6. - CONTINUED  
(a) - Continued

ORIFICE	$\beta = -4$	$\beta = -2$	$\beta = -1$	ORIFICE	$\beta = -4$	$\beta = -2$	$\beta = -1$
4-90L	.04	.04	.03	6-8L	.08	.03	.08
4-95L	.08	.08	.08	6-14L	.01	.09	.13
5-0C	.57	.69	.71	6-19L	.04	.11	.13
5-1.25U	.49	.17	.04	6-38L	.11	.15	.16
5-8U	.35	.21	.15	6-44L	.12	.15	.17
5-14U	.31	.23	.19	6-60L	.12	.13	.15
5-19U	.32	.25	.21	6-70L	.03	.04	.04
5-38U	.24	.19	.17	7-0C	.41	.63	.68
5-44U	.19	.15	.13	7-5U	.45	.29	.21
5-60U	.19	.16	.15	7-8U	.35	.24	.19
5-70U	.12	.09	.08	7-14U	.29	.21	.19
5-80U	.07	.07	.05	7-19U	.28	.21	.19
5-90U	.01	.01	.01	7-38U	.27	.23	.20
5-95U	.05	.05	.04	7-60U	.16	.15	.13
5-1.25L	.40	.20	.08	7-90U	.01	.01	.01
5-2.5L	.25	.08	.01	7-95U	.08	.08	.08
5-5L	.09	.04	.12	7-1.25L	.44	.25	.16
5-8L	.05	.04	.11	7-2.5L	.25	.08	.08
5-14L	.01	.08	.12	7-5L	.11	.01	.11
5-19L	.07	.13	.17	7-8L	.04	.07	.15
5-38L	.12	.16	.17	7-14L	.04	.12	.16
5-44L	.11	.13	.16	7-19L	.08	.13	.16
5-60L	.15	.16	.17	7-32L	.09	.13	.15
5-70L	.01	.03	.03	7-44L	.11	.13	.15
5-90L	.05	.05	.04	7-60L	.09	.11	.12
5-95L	.09	.09	.08	7-70L	.05	.07	.07
6-0C	.57	.69	.69	7-90L	.05	.05	.05
6-5U	.45	.28	.20	7-95L	.09	.09	.09
6-14U	.32	.23	.19	8-0C	.43	.63	.68
6-19U	.04	.03	.03	8-1.25U	.48	.23	.11
6-32U	.17	.13	.11	8-2.5U	.53	.32	.21
6-44U	.16	.13	.11	8-5U	.41	.27	.20
6-60U	.17	.15	.13	8-8U	.35	.25	.19
6-70U	.15	.13	.13	8-14U	.29	.23	.19
6-80U	.05	.05	.05	8-19U	.25	.21	.19
6-90U	.01	.01	.01	8-60U	.08	.07	.05
6-100C	.16	.16	.15	8-80U	.03	.03	.03
6-1.25L	.43	.25	.15	8-90U	.03	.03	.03
6-2.5L	.21	.05	.04	8-95U	.08	.09	.09
6-5L	.11	.03	.09	8-100C	.16	.16	.16



TABLE 6. - CONTINUED  
(a) - Continued

ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$	ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$
4-90L	.03	.03	.01	6-8L	-.12	-.17	-.24
4-95L	.08	.08	.05	6-14L	-.17	-.20	-.26
5-0C	.69	.63	.53	6-19L	-.16	-.19	-.23
5-1.25U	.07	.17	.26	6-38L	-.17	-.19	.04
5-8U	-.11	-.05	-.01	6-44L	-.17	-.19	-.22
5-14U	-.15	-.11	-.08	6-60L	-.15	-.16	-.18
5-19U	-.19	-.16	-.14	6-70L	-.05	-.05	-.08
5-38U	-.15	-.13	-.14	7-0C	-.71	-.69	-.65
5-44U	-.12	-.11	-.09	7-5U	-.15	-.08	-.03
5-60U	-.13	-.12	-.14	7-8U	-.13	-.08	-.04
5-70U	-.07	-.07	-.07	7-14U	-.15	-.12	-.09
5-80U	-.05	-.05	-.05	7-19U	-.16	-.13	-.11
5-90U	.01	.01	0	7-38U	-.17	-.16	-.16
5-95U	.04	.04	.03	7-60U	-.12	-.12	-.12
5-1.25L	-.03	-.15	-.30	7-90U	0	0	-.01
5-2.5L	-.08	-.17	-.30	7-95U	.07	.07	.05
5-5L	-.17	-.24	-.34	7-1.25L	.05	.05	.20
5-8L	-.13	-.20	-.26	7-2.5L	-.08	-.16	-.28
5-14L	-.15	-.19	-.24	7-5L	-.15	-.21	-.28
5-19L	-.20	-.21	-.27	7-8L	-.16	-.20	-.27
5-38L	-.19	-.21	-.24	7-14L	-.16	-.19	-.23
5-44L	-.16	-.17	-.20	7-19L	-.17	-.20	-.24
5-60L	-.17	-.19	-.20	7-32L	-.16	-.17	-.22
5-70L	-.04	-.05	-.07	7-44L	-.15	-.16	-.19
5-90L	.04	.04	.03	7-60L	-.12	-.13	-.15
5-95L	.09	.08	.07	7-70L	-.08	-.08	-.09
6-0C	.67	.61	.53	7-90L	.05	.05	.04
6-5U	-.13	-.07	-.01	7-95L	.09	.09	.08
6-14U	-.15	-.12	-.09	8-0C	.69	.68	.65
6-19U	-.03	.03	.04	8-1.25U	0	.09	.18
6-32U	-.28	-.24	-.22	8-2.5U	-.13	.05	.01
6-44U	-.23	-.19	-.18	8-5U	-.13	.08	.03
6-60U	-.13	-.12	-.14	8-8U	-.15	.11	.07
6-70U	-.12	-.12	-.14	8-14U	-.16	.12	.09
6-80U	-.04	-.04	-.05	8-19U	-.16	.13	.12
6-90U	-.01	.01	.03	8-60U	-.11	.08	.07
6-100C	.15	.15	.14	8-80U	-.03	.03	.04
6-1.25L	.05	.07	.22	8-90U	.03	.03	.01
6-2.5L	-.12	-.21	-.34	8-95U	-.09	.11	.12
6-5L	-.15	-.23	-.32	8-100C	.16	.16	.15

TABLE 6. - CONTINUED  
(a) - Continued

ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$	ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$
4-90L	.03	.03	.01	6-8L	-.32	-.43	-.57
4-95L	.07	.07	.05	6-14L	-.31	-.37	-.47
5-0C	.25	.20	.88	6-19L	-.28	-.33	-.41
5-1.25U	.41	.52	.57	6-38L	-.24	-.25	-.30
5-8U	.09	.17	.24	6-44L	-.23	-.24	-.27
5-14U	.01	.08	.14	6-60L	-.17	-.19	-.20
5-19U	-.05	.01	.05	6-70L	-.08	-.08	-.09
5-38U	-.08	.05	.03	7-0C	.48	.20	.34
5-44U	-.05	.03	.01	7-5U	.09	.19	.27
5-60U	-.09	.08	.07	7-8U	.05	.13	.20
5-70U	-.03	0	0	7-14U	-.01	.05	.09
5-80U	-.04	.03	.04	7-19U	-.04	.01	.07
5-90U	.01	.01	0	7-38U	-.11	.08	.05
5-95U	.04	.03	.01	7-60U	-.08	.07	.07
5-1.25L	-.56	.79	1.14	7-90U	0	0	0
5-2.5L	-.48	.65	.91	7-95U	.07	.07	.04
5-5L	-.47	.61	.80	7-1.25L	-.44	.60	.93
5-8L	-.35	.45	.61	7-2.5L	-.45	.60	.86
5-14L	-.31	.39	.49	7-5L	-.40	.52	.70
5-19L	-.32	.37	.45	7-8L	-.33	.43	.57
5-38L	-.25	.28	.31	7-14L	-.28	.35	.45
5-44L	-.21	.24	.27	7-19L	-.28	.32	.39
5-60L	-.20	.20	.22	7-32L	-.23	.25	.30
5-70L	-.07	.08	.09	7-44L	-.19	.20	.23
5-90L	.04	.04	.03	7-60L	-.15	.15	.16
5-95L	.08	.08	.07	7-70L	-.08	.08	.09
6-0C	.27	.12	.74	7-90L	.05	.05	.04
6-5U	.12	.21	.30	7-95L	.09	.09	.08
6-14U	-.01	.05	.11	8-0C	.49	.24	.24
6-19U	-.03	.01	.64	8-1.25U	.33	.44	.51
6-32U	-.16	.13	.09	8-2.5U	.16	.27	.36
6-44U	-.13	.12	.09	8-5U	.08	.17	.24
6-60U	-.08	.07	.07	8-8U	.03	.11	.18
6-70U	-.09	.07	.07	8-14U	-.03	.03	.07
6-80U	-.03	.01	.03	8-19U	-.07	.04	.01
6-90U	-.01	.01	.03	8-60U	-.03	.01	.01
6-100C	.15	.13	.11	8-80U	-.01	.01	.03
6-1.25L	-.47	.61	.97	8-90U	.03	.03	.01
6-2.5L	-.51	.75	1.01	8-95U	-.11	.11	.12
6-5L	-.44	.56	.74	8-100C	.16	.15	.12



TABLE 6. - CONTINUED  
(a) - Continued

ORIFICE	$\beta = 1.2$			ORIFICE	$\beta = 1.2$		
4-90L	- 0			6-8L	- .78		
4-95L	.03			6-14L	- .61		
5-0C	- 2.59			6-19L	- .51		
5-1.25U	.54			6-38L	- .32		
5-8U	.35			6-44L	- .30		
5-14U	.24			6-60L	- .19		
5-19U	.16			6-70L	- .09		
5-38U	.04			7-0C	- 1.77		
5-44U	.04			7-5U	.41		
5-60U	- .03			7-8U	.32		
5-70U	.07			7-14U	.20		
5-80U	- .01			7-19U	.15		
5-90U	- 0			7-38U	.01		
5-95U	- 0			7-60U	- .03		
5-1.25L	- 1.89			7-90U	- .01		
5-2.5L	- 1.38			7-95U	.04		
5-5L	- 1.11			7-1.25L	- 1.66		
5-8L	- .82			7-2.5L	- 1.31		
5-14L	- .64			7-5L	- 1.00		
5-19L	- .55			7-8L	- .78		
5-38L	- .34			7-14L	- .57		
5-44L	- .30			7-19L	- .50		
5-60L	- .20			7-32L	- .34		
5-70L	- .09			7-44L	- .26		
5-90L	.03			7-60L	- .16		
5-95L	.05			7-70L	- .09		
6-0C	- 2.26			7-90L	- .04		
6-5U	.43			7-95L	.07		
6-14U	.20			8-0C	- 1.53		
6-19U	- .03			8-1.25U	.55		
6-32U	- .05			8-2.5U	.49		
6-44U	- .05			8-5U	.38		
6-60U	- .03			8-8U	.28		
6-70U	- .04			8-14U	.18		
6-80U	- .01			8-19U	.07		
6-90U	- .03			8-60U	.01		
6-100C	.08			8-80U	- .03		
6-1.25L	- 1.81			8-90U	.01		
6-2.5L	- 1.47			8-95U	- .11		
6-5L	- 1.05			8-100C	.11		

TABLE 6. - CONTINUED  
(a) - Continued

ORIFICE	$\beta = 1.2$	$\beta = 8$	$\beta = 6$	ORIFICE	$\beta = 1.2$	$\beta = 8$	$\beta = 6$
8-1.25L	.80	.65	.54	11-32U	-	.47	.30
8-2.5L	.69	.51	.39	12-32U	-	.62	.32
8-5L	.50	.32	.22	TIP-32C	-	.50	.27
8-8L	.35	.20	.12	11-32L	-	0	.03
8-14L	.22	.11	.04	10-32L	-	0	.04
8-19L	.14	.04	0	10-70U	-	.12	.11
8-32L	.04	.03	.05	11-70U	-	.54	.27
8-38L	.01	.04	.07	12-70U	-	.88	.46
8-44L	-	0	.07	TIP-70C	-	.01	.01
8-60L	.09	.08	.08	12-70L	-	.54	.30
8-95L	.08	.09	.09	11-70L	-	.12	.08
9-0C	.89	.05	.38	10-70L	-	.07	.07
9-1.25U	1.45	.93	.69	FIN-1	-	.30	.16
9-2.5U	1.31	.85	.68	FIN-2	-	.76	.38
9-5U	.96	.66	.54	FIN-3	-	.34	.09
9-14U	.57	.42	.35	FIN-4	-	.03	.03
9-19U	.49	.39	.32	FIN-5	-	.18	.12
9-32U	.36	.30	.26	FIN-6	-	.18	.14
9-44U	.26	.20	.18	FIN-7	-	3.31	2.12
9-70U	.14	.07	.04	FIN-8	-	.12	.03
9-80U	.05	.01	.01	FIN-9	-	.07	.04
9-100C	.12	.15	.15	FIN-10	-	.04	.03
9-1.25L	.77	.61	.49	FIN-11	-	.11	.04
9-5L	.47	.30	.20	FIN-12	-	.09	.05
9-8L	.31	.16	.08	FIN-13	-	.91	1.34
9-14L	.18	.07	0	FIN-14	-	.20	.19
9-19L	.11	.01	.03	FIN-15	-	.04	.01
9-32L	.01	.07	.09	FIN-16	-	.05	.01
9-38L	0	.05	.08	FIN-17	-	.05	.03
9-44L	.01	.03	.05	FIN-18	-	.11	.05
9-70L	.05	.05	.05	FIN-19	-	.07	.03
9-90L	.04	.04	.05	FIN-20	-	.07	.04
9-95L	.09	.11	.11	FIN-21	-	.07	.09
2S-60U	.19	.19	.18	FIN-22	-	.03	0
2S-60L	.05	.08	.08	FIN-23	-	.04	.01
5S-60U	.11	.08	.08	FIN-24	-	.01	.01
5S-60L	.03	.07	.08	FIN-25	-	.19	.20
8S-60U	.19	.18	.16	FIN-26	-	.09	.11
8S-60L	.03	.05	.07	FIN-27	-	.04	.05
10-32U	.01	.01	.01	FIN-28	-	.04	.05



TABLE 6. - CONTINUED  
(a) - Continued

ORIFICE	$\beta = 4$	$\beta = 2$	$\beta = 1$	ORIFICE	$\beta = 4$	$\beta = 2$	$\beta = 1$
8-1.25L	.39	.23	.12	11-32U	.16	.12	.11
8-2.5L	.26	.14	.03	12-32U	.14	.08	.07
8-5L	.11	.01	.08	TIP-32C	.11	.08	.07
8-8L	.03	.05	.11	11-32L	.05	.07	.07
8-14L	.03	.08	.12	10-32L	.08	.11	.11
8-19L	.05	.11	.14	10-70U	.07	.05	.05
8-32L	.09	.12	.14	11-70U	.08	.05	.04
8-38L	.11	.14	.14	12-70U	.15	.07	.04
8-44L	.11	.14	.14	TIP-70C	.01	.03	.03
8-60L	.08	.08	.08	12-70L	.12	.05	.04
8-95L	.09	.09	.09	11-70L	.05	.04	.03
9-0C	.58	.69	.70	10-70L	.05	.05	.04
9-1.25U	.43	.19	.08	FIN-1	.05	.03	.03
9-2.5U	.47	.28	.19	FIN-2	.09	.04	.03
9-5U	.41	.28	.20	FIN-3	.04	.04	.03
9-14U	.31	.26	.22	FIN-4	.01	.03	.04
9-19U	.27	.23	.20	FIN-5	.05	.03	0
9-32U	.23	.20	.19	FIN-6	.05	.01	0
9-44U	.15	.14	.12	FIN-7	.68	.34	.23
9-70U	.03	.01	.01	FIN-8	0	.03	.04
9-80U	0	0	0	FIN-9	.01	.05	.07
9-100C	.15	.15	.15	FIN-10	.01	.03	.04
9-1.25L	.35	.19	.09	FIN-11	.01	.04	.05
9-5L	.11	0	.05	FIN-12	0	.03	.03
9-8L	0	.07	.11	FIN-13	.47	.16	.09
9-14L	.05	.11	.14	FIN-14	.16	.16	.15
9-19L	.07	.11	.14	FIN-15	.03	.05	.05
9-32L	.14	.15	.16	FIN-16	.01	.03	.04
9-38L	.09	.12	.12	FIN-17	.01	0	0
9-44L	.05	.07	.08	FIN-18	.01	.01	.01
9-70L	.05	.05	.04	FIN-19	.03	.04	.04
9-90L	.05	.05	.07	FIN-20	0	.03	.03
9-95L	.11	.11	.12	FIN-21	.11	.11	.11
2S-60U	.16	.16	.15	FIN-22	.04	.05	.05
2S-60L	.09	.11	.11	FIN-23	.03	.04	.04
5S-60U	.07	.07	.07	FIN-24	.03	.01	.03
5S-60L	.09	.11	.11	FIN-25	.19	.19	.19
6S-60U	.15	.14	.14	FIN-26	.12	.12	.12
8S-60L	.08	.09	.09	FIN-27	.07	.07	.08
10-32U	.01	.01	.01	FIN-28	.07	.07	.07

TABLE 6. - CONTINUED  
(a) - Continued

ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$	ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$
8-1.25L	.03	.07	.18	11-32U	.09	.11	.11
8-2.5L	.05	.13	.22	12-32U	.07	.07	.11
8-5L	.13	.19	.26	TIP-32C	.07	.07	.08
8-8L	.15	.19	.24	11-32L	.09	.08	.09
8-14L	.15	.17	.20	10-32L	.11	.12	.12
8-19L	.16	.17	.20	10-70U	.07	.05	.07
8-32L	.15	.16	.18	11-70U	.04	.04	.05
8-38L	.15	.16	1.18	12-70U	.03	.03	.04
8-44L	.15	.16	.16	TIP-70C	.01	.01	.01
8-60L	.08	.08	.08	12-70L	.03	.03	.03
8-95L	.09	.09	.09	11-70L	.03	.01	.01
9-00	.68	.65	.61	10-70L	.04	.03	.03
9-1.25U	.01	.09	.19	FIN-1	.01	.01	.01
9-2.5U	.11	.04	.04	FIN-2	.01	.03	.05
9-5U	.15	.09	.04	FIN-3	.01	.03	.05
9-14U	.19	.16	.12	FIN-4	.07	.09	.12
9-19U	.19	.03	.14	FIN-5	.01	.03	.05
9-32U	.17	.16	.15	FIN-6	.01	.03	.04
9-44U	.12	.11	.11	FIN-7	.16	.17	.23
9-70U	.01	.01	.03	FIN-8	.07	.09	.12
9-80U	0	0	0	FIN-9	.08	.11	.12
9-100C	.15	.15	.14	FIN-10	.05	.08	.09
9-1.25L	0	.08	.19	FIN-11	.07	.07	.08
9-5L	.11	.16	.22	FIN-12	.04	.05	.05
9-8L	.15	.19	.23	FIN-13	.05	.08	.14
9-14L	.16	.17	.20	FIN-14	0	.16	.19
9-19L	.15	.16	.19	FIN-15	.07	.07	.08
9-32L	.17	.17	.19	FIN-16	.04	.05	.05
9-38L	.13	.13	.15	FIN-17	.01	.01	.03
9-44L	.08	.09	.09	FIN-18	.03	.04	.04
9-70L	.04	.04	.04	FIN-19	.05	.05	.07
9-90L	.07	.07	.07	FIN-20	.04	.04	.05
9-95L	.12	.12	.12	FIN-21	.12	.12	.12
28-60U	.15	.15	.15	FIN-22	.07	.07	.07
28-60L	.12	.12	.12	FIN-23	.05	.05	.05
58-60U	.07	.07	.07	FIN-24	.01	.01	.01
58-60L	.11	.12	.12	FIN-25	.19	.16	.18
88-60U	.12	.12	.12	FIN-26	.12	.12	.11
88-60L	.11	.11	.11	FIN-27	.08	.08	.07
10-32U	.01	.01	.01	FIN-28	.07	.07	.07



TABLE 6. - CONTINUED  
(a) - Continued

ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$	ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$		
8-1.25L	-	.42	.62	.88	11-32U	-	.12	.12	.16
8-2.5L	-	.41	.53	.73	12-32U	-	.15	.19	.30
8-5L	-	.35	.47	.62	TIP-32C	-	.14	.15	.26
8-8L	-	.32	.42	.54	11-32L	-	.11	.12	.14
8-14L	-	.27	.32	.41	10-32L	-	.14	.15	.16
8-19L	-	.24	.28	.35	10-70U	-	.07	.08	.11
8-32L	-	.20	.22	.26	11-70U	-	.08	.12	.19
8-38L	-	.19	.20	.23	12-70U	-	.09	.19	.32
8-44L	-	.18	.19	.22	TIP-70C	-	.01	.01	.01
8-60L	-	.08	.08	.11	12-70L	-	.04	.08	.16
8-95L	-	.09	.09	.08	11-70L	-	.01	.04	.08
9-00	-	.43	.16	.28	10-70L	-	.03	.03	.04
9-1.25U	-	.32	.42	.08	FIN-1	-	.04	.07	.12
9-2.5U	-	.16	.26	.34	FIN-2	-	.12	.22	.38
9-5U	-	.05	.14	.20	FIN-3	-	.14	.24	.38
9-14U	-	.07	.03	0	FIN-4	-	.18	.23	.28
9-19U	-	.09	.07	.03	FIN-5	-	.08	.12	.18
9-32U	-	.14	.11	.09	FIN-6	-	.07	.08	.12
9-44U	-	.08	.08	.08	FIN-7	-	.47	.82	1 .43
9-70U	-	.04	.05	.07	FIN-8	-	.23	.34	.49
9-80U	1	.22	0	.01	FIN-9	-	.18	.22	.28
9-100C	-	.14	.12	.09	FIN-10	-	.12	.15	.19
9-1.25L	-	.39	.61	.88	FIN-11	-	.09	.12	.16
9-5L	-	.32	.36	.50	FIN-12	-	.07	.09	.12
9-8L	-	.31	.38	.49	FIN-13	-	.39	.76	1 .26
9-14L	-	.26	.30	.36	FIN-14	-	.26	.35	.61
9-19L	-	.22	.26	.30	FIN-15	-	.11	.14	.20
9-32L	-	.20	.22	.24	FIN-16	-	.07	.09	.12
9-38L	-	.15	.16	.18	FIN-17	-	.05	.07	.11
9-44L	-	.11	.07	.14	FIN-18	-	.05	.08	.12
9-70L	-	.03	.03	.04	FIN-19	-	.07	.08	.11
9-90L	-	.07	.07	.05	FIN-20	-	.05	.08	.11
9-95L	-	.12	.12	.09	FIN-21	-	.12	.12	.18
28-60U	-	.15	.14	.15	FIN-22	-	.08	.08	.12
28-60L	-	.12	.14	0	FIN-23	-	.07	.07	.09
58-60U	-	.07	.07	.09	FIN-24	-	.01	.01	.01
58-60L	-	.12	.12	.14	FIN-25	-	.16	.16	.20
88-60U	-	.09	.08	.08	FIN-26	-	.11	.12	.15
88-60L	-	.11	.12	.14	FIN-27	-	.08	.08	.11
10-32U	-	.01	.01	.03	FIN-28	-	.07	.08	.11

TABLE 6. - CONTINUED  
(a) - Concluded

ORIFICE	$\beta = 1.2$		ORIFICE	$\beta = .12$
8-1.25L	- 1.54		11-32U	- .28
8-2.5L	- 1.16		12-32U	- .58
8-5L	- .91		TIP-32C	- .47
8-8L	- .73		11-32L	- .16
8-14L	- .53		10-32L	- .19
8-19L	- .43		10-70U	- .15
8-32L	- .30		11-70U	- .31
8-38L	- .26		12-70U	- .45
8-44L	- .23		TIP-70C	- .03
8-60L	- .12		12-70L	- .26
8-95L	- .07		11-70L	- .18
9-0C	- 1.46		10-70L	- .08
9-1.25U	.53		FIN-1	- .24
9-2.5U	.45		FIN-2	- .72
9-5U	.31		FIN-3	- .54
9-14U	.08		FIN-4	- .43
9-19U	.01		FIN-5	- .32
9-32U	- .07		FIN-6	- .19
9-44U	- .07		FIN-7	- 2.32
9-70U	- .08		FIN-8	- .95
9-80U	- .04		FIN-9	- .35
9-100C	.07		FIN-10	- .35
9-1.25L	- 1.42		FIN-11	- .23
9-5L	- .76		FIN-12	- .16
9-8L	- .65		FIN-13	- 1.19
9-14L	- .46		FIN-14	- 1.54
9-19L	- .36		FIN-15	- .28
9-32L	- .27		FIN-16	- .20
9-38L	- .19		FIN-17	- .22
9-44L	- .15		FIN-18	- .20
9-70L	- .04		FIN-19	- .16
9-90L	.04		FIN-20	- .15
9-95L	.09		FIN-21	- .28
2S-60U	- .15		FIN-22	- .16
2S-60L	- .16		FIN-23	- .12
5S-60U	- .12		FIN-24	- .03
5S-60L	- .14		FIN-25	- .32
8S-60U	- .07		FIN-26	- .19
8S-60L	- .12		FIN-27	- .14
10-32U	- .03		FIN-28	- .14

80 .12



TABLE 6. - CONTINUED  
(b)  $\alpha$ , 6°.

ORIFICE	$\beta = 12$	$\beta = 8$	$\beta = 6$	ORIFICE	$\beta = 12$	$\beta = 8$	$\beta = 6$
1-0C	- 2.15	- .54	- 0	3-1.25U	- 3.04	- 1.92	- 1.49
1-1.25U	- 2.27	- 1.25	- .79	3-8U	- 1.21	- .80	- .73
1-2.5U	- 1.48	- .83	- .53	3-14U	- .91	- .68	- .59
1-5U	- .97	- .57	- .37	3-19U	- .77	- .59	- .52
1-8U	- .81	- .51	- .36	3-32U	- .53	- .43	- .37
1-14J	- .56	- .37	- .27	3-60U	- .27	- .24	- .21
1-19U	- .51	- .37	- .29	3-70U	- .17	- .17	- .16
1-32U	- .37	- .30	- .25	3-95U	.05	.05	.05
1-70U	- .21	- .20	- .19	3-1.25L	.77	.76	.73
1-80U	- .13	- .12	- .11	3-2.5L	.80	.67	.57
1-90U	- .08	- .05	- .07	3-5L	.68	.50	.40
1-95U	.01	0	.01	3-8L	.57	.39	.31
1-2.5L	.83	.61	.47	3-14L	.41	.26	.19
1-5L	.68	.53	.33	3-32L	.19	.09	.05
1-14L	.43	.28	.19	3-38L	.13	.04	0
1-19L	.35	.21	.15	3-60L	.03	.03	.07
1-32L	.28	.17	.11	3-80L	.04	.05	0
1-38L	.19	.09	.04	3-95L	.05	.05	.05
1-60L	.07	0	.04	4-0C	- 4.40	- 2.00	- 1.11
1-70L	.08	.01	.03	4-1.25U	- 3.08	- 1.99	- 1.51
1-80L	.05	.01	.03	4-2.5U	- 2.27	- 1.53	- 1.21
2-1.25U	- 1.35	- .92	- .64	4-14U	- 1.01	- .79	- .69
2-2.5U	- 2.05	- 1.33	- .99	4-19U	- .80	- .63	- .55
2-5U	- 1.45	- .99	- .39	4-32U	- .57	- .46	- .41
2-32U	- .47	- .36	- .32	4-38U	- .47	- .39	- .35
2-38U	- .49	- .42	- .37	4-60U	- .32	- .29	- .28
2-44U	- .25	- .21	- .19	4-70U	- .17	- .16	- .15
2-70U	- .16	- .16	- .15	4-90U	.01	.01	.01
2-80U	- .07	- .07	- .07	4-95U	.07	.07	.07
2-95U	.04	.05	.05	4-100C	.09	.11	.11
2-100C	0	.04	.04	4-2.5L	.81	.68	.60
2-1.25L	.77	.75	.69	4-5L	.89	.53	.44
2-2.5L	.80	.64	.55	4-8L	.57	.42	.35
2-5L	.67	.47	.37	4-14L	.39	.24	.17
2-14L	.41	.26	.19	4-19L	.31	.18	.12
2-32L	.19	.08	.04	4-32L	.20	.11	.07
2-38L	.13	.04	0	4-38L	.12	.03	.01
2-44L	.11	.03	.01	4-44L	.09	.03	.01
2-70L	.12	.08	.05	4-60L	.04	.01	.04
2-95L	.04	.04	.03	4-80L	.07	.03	.01

TABLE 6. - CONTINUED  
(b) - Continued

ORIFICE	$\beta = .4$	$\beta = .2$	$\beta = .1$	ORIFICE	$\beta = .4$	$\beta = .2$	$\beta = .1$
1-0C	.31	.41	.39	3-1.25U	1.08	.75	.60
1-1.25U	.31	.09	.17	3-8U	.59	.47	.43
1-2.5U	.21	.04	.09	3-14U	.49	.40	.36
1-5U	.16	.03	.01	3-19U	.44	.37	.35
1-8U	.19	.08	.05	3-32U	.33	.28	.27
1-14J	.16	.11	.09	3-60U	.19	.17	.17
1-19U	.20	.17	.16	3-70U	.15	.13	.13
1-32U	.20	.19	.19	3-95U	.05	.04	.04
1-70U	.17	.19	.17	3-1.25L	.63	.51	.45
1-80U	.11	.13	.13	3-2.5L	.47	.35	.28
1-90U	.07	.08	.08	3-5L	.29	.17	.12
1-95U	.03	.03	.01	3-8L	.23	.12	.08
1-2.5L	.25	0	.11	3-14L	.11	.04	0
1-5L	.17	.01	.09	3-32L	0	.04	.05
1-14L	.09	0	.04	3-38L	.04	.08	.09
1-19L	.07	.01	.05	3-60L	.08	.11	.12
1-32L	.05	0	.01	3-60L	.03	.03	.04
1-38L	0	.04	.05	3-95L	.05	.05	.05
1-60L	.05	.08	.08	4-0C	.39	.12	.31
1-70L	.05	.07	.07	4-1.25U	1.20	.89	.67
1-80L	.04	.04	.04	4-2.5U	.95	.73	.61
2-1.25U	.47	.37	.32	4-14U	.60	.53	.49
2-2.5U	.73	.51	.43	4-19U	.47	.39	1.24
2-5U	.57	.43	.37	4-32U	.36	.31	.29
2-32U	.27	.21	.21	4-38U	.32	.29	.27
2-38U	.33	.29	.29	4-60U	.25	.24	.24
2-44U	.17	.16	.16	4-70U	.13	.12	.11
2-70U	.12	.08	.09	4-90U	0	0	0
2-80U	.07	.05	.05	4-95U	.07	.07	.05
2-95U	.04	.04	.04	4-100C	.12	.12	.12
2-100C	.04	.03	.03	4-2.5L	.49	.37	.32
2-1.25L	.57	.44	.39	4-5L	.33	.23	.17
2-2.5L	.41	.28	.23	4-8L	.27	.17	.13
2-5L	.24	.13	.08	4-14L	.09	.01	.01
2-14L	.09	.01	.01	4-19L	.05	.01	.04
2-32L	.01	.05	.07	4-32L	.01	.03	.04
2-38L	.04	.08	.09	4-38L	.05	.49	.11
2-44L	.05	.08	.09	4-44L	.05	.48	.09
2-70L	.01	.03	.03	4-60L	.05	.48	.08
2-95L	.03	.01	.01	4-80L	0	.01	.01



TABLE 6. - CONTINUED  
(b) - Continued

ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$	ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$
1-0C	.39	.49	.69	3-1.25U	.41	.31	.16
1-1.25U	.23	.24	.20	3-8U	.35	.31	.24
1-2.5U	.15	.15	.11	3-14U	.32	.29	.25
1-5U	.05	.04	.01	3-19U	.32	.29	.25
1-8U	.03	.03	.05	3-32U	.25	.24	1.25
1-14J	.07	.07	.08	3-60U	.17	.16	.16
1-19U	.13	.13	.15	3-70U	.13	.12	.11
1-32U	.16	.16	.16	3-95U	.04	.04	.04
1-70U	.17	.17	.19	3-1.25L	.37	.29	.19
1-80U	.11	.11	.12	3-2.5L	.20	.15	.05
1-90U	.07	.07	.04	3-5L	.05	0	.08
1-95U	0	0	.01	3-8L	.03	.01	.07
1-2.5L	.16	.16	.15	3-14L	.04	.07	.11
1-5L	.15	.16	.19	3-32L	.08	.11	.13
1-14L	.08	.09	.12	3-38L	.11	.13	.16
1-19L	.08	.09	.12	3-60L	.12	.13	.13
1-32L	.04	.04	.05	3-80L	.04	.04	.04
1-38L	.08	.09	.11	3-95L	.05	.05	.05
1-60L	.09	.11	.12	4-0C	.47	.55	.63
1-70L	.08	.09	.11	4-1.25U	.49	.36	.21
1-80L	.05	.05	.05	4-2.5U	.47	.36	.24
2-1.25U	.57	.51	.43	4-14U	.45	.40	.36
2-2.5U	.31	.23	.12	4-19U	.32	.29	.25
2-5U	.31	.25	.17	4-32U	.27	.25	.23
2-32U	.20	.20	.17	4-38U	.28	.25	.25
2-38U	1.04	.28	.27	4-60U	.24	.23	.23
2-44U	.17	.16	.16	4-70U	.09	.08	.07
2-70U	.12	.13	.15	4-90U	0	0	0
2-80U	.07	.07	.08	4-95U	.05	.05	.05
2-95U	.05	.05	.04	4-100C	.12	.13	.13
2-100C	.05	.07	.08	4-2.5L	.24	.19	.09
2-1.25L	.29	.23	.11	4-5L	.12	.07	0
2-2.5L	.13	.08	.01	4-8L	.08	.04	.01
2-5L	.01	.03	.11	4-14L	.05	.09	.13
2-14L	.05	.08	.12	4-19L	.07	.09	.13
2-32L	.04	.11	.12	4-32L	.07	.08	.09
2-38L	.11	.12	.15	4-38L	.12	.13	.15
2-44L	.11	.12	.13	4-44L	.11	.12	.13
2-70L	.03	.03	.04	4-60L	.09	.11	.24
2-95L	.03	.04	.04	4-80L	.01	.01	.03

TABLE 6. - CONTINUED  
(b) - Continued

ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$	ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$
1-0C	.80	.75	.69	3-1.25U	.11	.33	.47
<del>1-1.25U</del>	<del>.03</del>	<del>.25</del>	<del>.28</del>	3-8U	<del>.11</del>	<del>0</del>	<del>.09</del>
1-2.5U	.07	.23	.25	3-14U	.16	.08	.01
1-5U	.12	.24	.24	3-19U	.17	.12	.05
1-8U	.15	.23	.24	3-32U	.17	.12	.09
1-14J	.16	.19	.20	3-60U	.13	.12	.11
1-19U	.20	.23	.25	3-70U	.08	.07	.04
1-32U	.20	.20	.23	3-95U	.03	.04	.01
<del>1-70U</del>	<del>.19</del>	<del>.17</del>	<del>.17</del>	3-1.25L	<del>.05</del>	<del>.35</del>	<del>.61</del>
1-80U	.15	.13	.13	3-2.5L	.15	.37	.59
<del>1-90U</del>	<del>.09</del>	<del>.08</del>	<del>.08</del>	3-5L	.20	.36	.52
1-95U	0	0	0	3-8L	.15	.27	.37
1-2.5L	.04	.09	.13	3-14L	.16	.24	.32
1-5L	.13	.03	.01	3-32L	.16	.20	.24
1-14L	.15	.09	.05	3-38L	.19	.21	.24
1-19L	.16	.13	.09	3-60L	.16	.17	.17
1-32L	.09	.09	.07	3-80L	.05	.05	.07
1-38L	.13	.15	.13	3-95L	.05	.07	.04
1-60L	.15	.16	.17	4-0C	.64	.47	.04
1-70L	.13	.15	.16	4-1.25U	.05	.27	.44
1-80L	.08	.09	.09	4-2.5U	.01	.16	.33
2-1.25U	.28	.19	.31	4-14U	.25	.11	.03
2-2.5U	.03	.07	.56	4-19U	.17	.11	.04
2-5U	.07	.15	.43	4-32U	.17	.13	.08
2-32U	.15	.19	.21	4-38U	.21	.17	.13
<del>2-38U</del>	<del>.25</del>	<del>.28</del>	<del>.29</del>	4-60U	.20	.19	.16
2-44U	.15	.15	.16	4-70U	.04	.03	.01
2-70U	.15	.19	.20	4-90U	0	0	0
2-80U	.08	.09	.12	4-95U	.05	.05	.04
2-95U	.04	.01	.01	4-100C	.13	.13	.12
2-100C	.08	.08	.05	4-2.5L	.09	.31	.56
2-1.25L	.09	.03	.40	4-5L	.15	.29	.49
2-2.5L	.17	.16	.19	4-8L	.12	.23	.37
2-5L	.24	.23	.01	4-14L	.21	.16	.39
2-14L	.17	.20	.15	4-19L	.20	.27	.33
2-32L	.16	.19	.19	4-32L	.13	.17	.23
2-38L	.17	.20	.21	4-38L	.19	.23	.25
<del>2-44L</del>	<del>.16</del>	<del>.19</del>	<del>.20</del>	4-44L	.16	.19	.24
2-70L	.07	.09	.11	4-60L	.13	.15	.03
2-95L	.05	.04	.03	4-80L	.03	.04	.04



TABLE 6. - CONTINUED  
(b) - Continued

ORIFICE	$\beta = 1.2$			ORIFICE	$\beta = 1.2$		
1-0C	-.15			3-1.25U	-.16		
<del>1-1.25U</del>	.44			3-8U	-.17		
1-2.5U	.04			3-14U	-.13		
1-5U	-.01			3-19U	-.12		
1-8U	-.05			3-32U	-.13		
1-14U	-.11			3-60U	-.11		
1-19U	-.15			3-70U	-.09		
1-32U	-.20			3-95U	-.01		
1-70U	-.23			3-1.25L	.01		
1-80U	-.19			3-2.5L	.11		
1-90U	-.17			3-5L	.45		
1-95U	-.09			3-8L	-.25		
1-2.5L	-.03			3-14L	-.25		
1-5L	-.08			3-32L	-.27		
1-14L	-.13			3-38L	-.28		
1-19L	-.13			3-60L	-.27		
1-32L	-.16			3-60L	-.21		
1-38L	-.12			3-95L	-.08		
1-60L	-.17			4-0C	.03		
1-70L	-.19			4-1.25U	1.24		
1-80L	.03			4-2.5U	.03		
2-1.25U	-.11			4-14U	.41		
2-2.5U	-.33			4-19U	.03		
2-5U	-.35			4-32U	.04		
2-32U	-.32			4-38U	-.03		
2-38U	-.17			4-60U	-.09		
2-44U	-.27			4-70U	-.13		
2-70U	-.16			4-90U	0		
2-80U	1.23			4-95U	-.04		
2-95U	-.07			4-100C	-.03		
2-100C	.03			4-2.5L	-.09		
2-1.25L	.05			4-5L	-.87		
2-2.5L	.24			4-8L	-.25		
2-5L	.11			4-14L	-.49		
2-14L	-.03			4-19L	-.43		
2-32L	-.09			4-32L	-.36		
2-38L	-.16			4-38L	-.25		
2-44L	-.19			4-44L	-.27		
2-70L	-.19			4-60L	-.23		
2-95L	-.09			4-80L	-.19		

TABLE 6.- CONTINUED  
(b)- Continued

ORIFICE	$\beta=1.2$	$\beta=8$	$\beta=6$	ORIFICE	$\beta=1.2$	$\beta=8$	$\beta=6$
4-90L	.07	.05	.04	6-8L	.60	.45	.37
4-95L	.07	.07	.07	6-14L	.43	.28	.23
5-0C	- 4.35	- 2.08	- 1.20	6-19L	.35	.23	.17
5-1.25U	- 3.29	- 2.11	- 1.67	6-38L	.13	.05	.01
5-8U	- 1.28	- .95	- .79	6-44L	.08	.01	.01
5-14U	- .96	- .75	- .64	6-60L	.01	.04	.07
5-19U	- .85	- .68	- .60	6-70L	.09	.05	.03
5-38U	- .51	- .44	- .39	7-0C	- 5.21	- 2.84	- 1.89
5-44U	- .43	- .36	- .33	7-5U	- 1.73	- 1.31	- 1.09
5-60U	- .29	- .27	- .25	7-8U	- 1.29	- .99	- .83
5-70U	- .20	- .19	- .17	7-14U	- .93	- .72	- .63
5-80U	- .09	- .09	- .09	7-19U	- .79	- .63	- .56
5-90U	.01	1.24	0	7-38U	- .49	- .44	- .40
5-95U	.07	.05	.05	7-60U	- .27	- .24	- .23
5-1.25L	.76	.77	.73	7-90U	.03	.01	.01
5-2.5L	.83	.72	.64	7-95U	.08	.07	.07
5-5L	.71	.53	.45	7-1.25L	.75	.77	.75
5-8L	.59	.44	.35	7-2.5L	.81	.72	.64
5-14L	.43	.29	.24	7-5L	.71	.56	.47
5-19L	.33	.20	.15	7-8L	.59	.44	.36
5-38L	.13	.04	.01	7-14L	.41	.28	.23
5-44L	.11	.03	0	7-19L	.32	.20	.15
5-60L	- 0	.05	.07	7-32L	.17	.08	.04
5-70L	.09	.04	.03	7-44L	.08	.03	0
5-90L	.07	.05	.05	7-60L	.01	.03	.04
5-95L	.08	.07	.07	7-70L	.03	.01	.03
6-0C	- 4.29	- 2.12	- 1.27	7-90L	.05	.04	.04
6-5U	- 1.79	- 1.32	- 1.11	7-95L	.08	.08	.08
6-14U	- .96	- .76	- .65	8-0C	- 4.79	- 2.64	- 1.77
6-19U	- .03	- .03	- .03	8-1.25U	- 3.08	- 2.17	- 1.75
6-32U	- .44	- .37	- .32	8-2.5U	- 2.36	- 1.73	- 1.44
6-44U	- .35	- .31	- .27	8-5U	- 1.60	- 1.20	- 1.00
6-60U	- .28	- .27	- .24	8-8U	- 1.23	- .95	- .80
6-70U	- .20	- .20	- .19	8-14U	- .87	- .68	- .59
6-80U	- .07	- .20	- .08	8-19U	- .76	- .60	- .52
6-90U	- 0	.08	0	8-60U	- .05	- .05	- .07
6-100C	.11	0	.11	8-80U	- .05	- .05	- .05
6-1.25L	.75	.11	.75	8-90U	.03	.01	.01
6-2.5L	.81	.79	.61	8-95U	.01	.04	.05
6-5L	.71	.71	.48	8-100C	.11	.12	.13



TABLE 6.- CONTINUED  
(b)- Continued

ORIFICE	$\beta=4$	$\beta=2$	$\beta=1$	ORIFICE	$\beta=4$	$\beta=2$	$\beta=1$
4-90L	.04	.04	.04	6-8L	.31	.23	.18
4-95L	.07	.07	.07	6-14L	.17	.09	.07
5-0C	- .48	.04	.22	6-19L	.12	.05	.03
5-1.25U	- 1.48	- 1.00	- .82	6-38L	- .01	- .05	- .07
5-8U	- .63	- .47	- .41	6-44L	- .04	- .07	- .08
5-14U	- .52	- .43	- .37	6-60L	- .07	- .08	- .09
5-19U	- .49	- .43	- .38	6-70L	- .03	- 0	- 0
5-38U	- .33	- .29	- .28	7-0C	- 1.01	- .39	- .14
5-44U	- .28	- .25	- .22	7-5U	- .87	- .68	- .59
5-60U	- .21	- .20	- .18	7-8U	- .67	- .53	- .46
5-70U	- .15	- .13	- .13	7-14U	- .51	- .43	- .37
5-80U	- .08	- .08	- .07	7-19U	- .45	- .39	- .34
5-90U	.01	.01	.01	7-38U	- .35	- .31	- .28
5-95U	.05	.05	.05	7-60U	- .20	- .19	- .17
5-1.25L	.68	.57	.51	7-90U	.01	.01	.01
5-2.5L	.55	.44	.38	7-95U	.08	.08	.08
5-5L	.36	.25	.20	7-1.25L	.69	.61	.55
5-8L	.28	.19	.16	7-2.5L	.55	.45	.38
5-14L	.19	.11	.08	7-5L	.39	.28	.24
5-19L	.09	.03	0	7-8L	.28	.19	.14
5-38L	- .01	- .05	- .07	7-14L	.17	.09	.05
5-44L	- .03	- .05	- .07	7-19L	.09	.04	.01
5-60L	- .08	- .11	- .11	7-32L	.01	.03	.04
5-70L	.03	.01	0	7-44L	- .03	- .05	- .07
5-90L	.05	.05	.05	7-60L	- .05	- .07	- .08
5-95L	.08	.08	.08	7-70L	- .03	- .04	- .04
6-0C	- .53	.01	.17	7-90L	- .05	- .05	- .05
6-5U	- .88	.68	.59	7-95L	.08	.08	.08
6-14U	- .53	.45	.39	8-0C	- .95	.37	.12
6-19U	- .01	.01	.01	8-1.25U	- 1.32	- 1.01	- .86
6-32U	- .28	.24	.21	8-2.5U	- .73	.89	.79
6-44U	- .23	.20	.18	8-5U	- .80	.63	.53
6-60U	- .21	.19	.18	8-8U	- .65	.52	.46
6-70U	- .16	.16	.14	8-14U	- .48	.40	.36
6-80U	- .07	.07	.05	8-19U	- .43	.36	.32
6-90U	.01	.01	.01	8-60U	- .05	.05	.05
6-100C	.13	.13	.13	8-80U	- .03	.03	.03
6-1.25L	.69	.12	.55	8-90U	- .03	.01	.03
6-2.5L	.52	.41	.34	8-95U	- .05	.07	.07
6-5L	.39	.28	.22	8-100C	.15	.15	.14



TABLE 6.- CONTINUED  
(b)- Continued

ORIFICE	$\beta=0$	$\beta=1$	$\beta=2$	ORIFICE	$\beta=0$	$\beta=1$	$\beta=2$
4-90L	.04	.04	.04	6-8L	.15	.09	.05
4-95L	.07	.07	.07	6-14L	.03	0	.04
5-0C	.40	.50	.58	6-19L	0	.03	.05
5-1.25U	.63	.46	.32	6-38L	.08	.09	.11
5-8U	.35	.30	.26	6-44L	.09	.11	.12
5-14U	.32	.28	.25	6-60L	.09	.11	.12
5-19U	.35	.30	.28	6-70L	.01	.01	.03
5-38U	.25	.24	.21	7-0C	.09	.28	.41
5-44U	.21	.18	.17	7-5U	.53	.43	.36
5-60U	.19	.17	.16	7-8U	.40	.33	.28
5-70U	.12	.12	.11	7-14U	.33	.29	.25
5-80U	.07	.07	.07	7-19U	.32	.28	.28
5-90U	.01	.01	.01	7-38U	.27	.25	0
5-95U	.04	.04	.04	7-60U	.16	.16	.14
5-1.25L	.44	.36	.28	7-90U	.01	.01	.01
5-2.5L	.31	.24	.16	7-95U	.07	.08	.07
5-5L	.13	.08	.03	7-1.25L	.49	.42	.36
5-8L	.11	.07	.01	7-2.5L	.72	.26	.20
5-14L	.03	0	.03	7-5L	.19	.12	.07
5-19L	.03	.05	.08	7-8L	.11	.05	.01
5-38L	.08	.11	.12	7-14L	.03	0	.04
5-44L	.08	.09	.11	7-19L	.01	.04	.07
5-60L	.12	.12	.13	7-32L	.05	.08	.09
5-70L	.01	.01	.01	7-44L	.08	.08	.09
5-90L	.04	.04	.04	7-60L	.08	.09	.09
5-95L	.08	.08	.08	7-70L	.05	.05	.07
6-0C	.35	.46	.54	7-90L	.05	.04	.04
6-5U	.51	.42	.36	7-95L	.08	.08	.08
6-14U	.36	.32	.28	8-0C	.08	.25	.38
6-19U	.01	.01	.01	8-1.25U	.71	.54	.42
6-32U	.31	.28	.26	8-2.5U	.68	.57	.46
6-44U	.25	.22	.21	8-5U	.48	.46	.36
6-60U	.17	.16	.14	8-8U	.40	.34	.30
6-70U	.15	.14	.13	8-14U	.32	.28	.25
6-80U	.05	.05	.05	8-19U	.29	.25	.22
6-90U	.01	.01	.01	8-60U	.08	.07	.07
6-100C	.13	.13	.13	8-80U	.03	.03	.03
6-1.25L	.48	.41	.34	8-90U	.03	.03	.03
6-2.5L	.28	.21	.13	8-95U	.07	.07	.08
6-5L	.17	.11	.05	8-100C	.15	.14	.14



TABLE 6.- CONTINUED  
(b)- Continued

ORIFICE	$\beta=4$	$\beta=6$	$\beta=8$	ORIFICE	$\beta=4$	$\beta=6$	$\beta=8$
4-90L	.01	.03	.01	6-8L	-.07	.16	.28
4-95L	.05	.07	.05	6-14L	-.14	.18	.28
5-0C	.62	.51	.19	6-19L	-.14	.17	.26
5-1.25U	-.05	.18	.36	6-38L	-.16	.17	.22
5-8U	-.16	.03	.07	6-44L	-.16	.17	.22
5-14U	-.19	.08	.01	6-60L	-.15	.14	.16
5-19U	-.23	.13	.07	6-70L	-.05	.04	.07
5-38U	-.19	.12	.09	7-0C	.58	.59	.46
5-44U	-.15	.09	.08	7-5U	-.23	.08	.04
5-60U	-.16	.12	.12	7-8U	-.20	.08	.01
5-70U	-.09	.05	0	7-14U	-.20	.11	.05
5-80U	-.07	.05	.05	7-19U	-.20	.12	.07
5-90U	0	.01	0	7-38U	-.20	.14	.12
5-95U	.03	.03	.01	7-60U	-.14	.11	.09
5-1.25L	.05	.20	.54	7-90U	-.01	0	.01
5-2.5L	-.03	.21	.43	7-95U	.05	.07	.05
5-5L	-.14	.25	.45	7-1.25L	.15	.05	.35
5-8L	-.09	.18	.32	7-2.5L	.01	.14	.36
5-14L	-.12	.18	.30	7-5L	-.08	.20	.35
5-19L	-.16	.21	.30	7-8L	-.11	.17	.30
5-38L	-.16	.18	.23	7-14L	-.14	.16	.26
5-44L	-.15	.16	.20	7-19L	-.15	.18	.26
5-60L	-.16	.16	.19	7-32L	-.15	.16	.20
5-70L	-.05	.04	.07	7-44L	-.15	.14	.18
5-90L	.03	.04	.01	7-60L	-.12	.12	.15
5-95L	.07	.08	.05	7-70L	-.09	.07	.09
6-0C	.59	.51	.24	7-90L	-.03	.04	.03
6-5U	-.22	.05	.07	7-95L	.07	.09	.07
6-14U	-.22	.11	.05	8-0C	.57	.59	.47
6-19U	-.03	.01	.03	8-1.25U	-.16	.05	.09
6-32U	-.26	.21	.19	8-2.5U	-.27	.08	.08
6-44U	-.22	.18	.16	8-5U	-.23	.09	.01
6-60U	-.15	.11	.09	8-8U	-.22	.11	.03
6-70U	-.14	.11	.09	8-14U	-.20	.12	.07
6-80U	-.05	.04	.04	8-19U	-.20	.13	.11
6-90U	.01	.01	0	8-60U	-.08	.07	.08
6-100C	.12	.13	.11	8-80U	-.04	.01	.03
6-1.25L	.12	.09	.41	8-90U	.01	.03	.01
6-2.5L	-.04	.21	.49	8-95U	-.09	.09	.11
6-5L	-.09	.21	.39	8-100C	.15	.14	.12

TABLE 6.- CONTINUED  
(b)- Continued

ORIFICE	$\beta = 1.2$			ORIFICE	$\beta = 1.2$		
4-90L	- .07			6-8L	- .51		
4-95L	- .04			6-14L	- .43		
5-0C	- 1.16			6-19L	- .36		
5-1.25U	.51			6-38L	- .26		
5-8U	.23			6-44L	- .23		
5-14U	.14			6-60L	- .16		
5-19U	.05			6-70L	- .05		
5-38U	- .04			7-0C	- .41		
5-44U	- .01			7-5U	.24		
5-60U	- .08			7-8U	.18		
5-70U	- .01			7-14U	.08		
5-80U	- .05			7-19U	.05		
5-90U	- .01			7-38U	- .05		
5-95U	- .01			7-60U	- .07		
5-1.25L	- 1.18			7-90U	- .01		
5-2.5L	- .92			7-95U	.04		
5-5L	- .78			7-1.25L	- .86		
5-8L	- .58			7-2.5L	- .78		
5-14L	- .45			7-5L	- .65		
5-19L	- .41			7-8L	- .51		
5-38L	- .26			7-14L	- .39		
5-44L	- .22			7-19L	- .35		
5-60L	- .15			7-32L	- .26		
5-70L	- .07			7-44L	- .20		
5-90L	.01			7-60L	- .14		
5-95L	.04			7-70L	- .09		
6-0C	- .86			7-90L	- .04		
6-5U	.28			7-95L	.07		
6-14U	.08			8-0C	- .24		
6-19U	- .03			8-1.25U	.45		
6-32U	- .15			8-2.5U	.31		
6-44U	- .14			8-5U	.22		
6-60U	- .07			8-8U	.14		
6-70U	- .07			8-14U	.05		
6-80U	- .04			8-19U	- .03		
6-90U	- 0			8-60U	- .08		
6-100C	.08			8-80U	- .03		
6-1.25L	- .96			8-90U	- 0		
6-2.5L	- .96			8-95U	- .09		
6-5L	- .70			8-100C	.11		



TABLE 6. -- CONTINUED  
(b) -- Continued

ORIFICE	$\beta = -12$	$\beta = -8$	$\beta = -6$	ORIFICE	$\beta = -12$	$\beta = -8$	$\beta = -6$
8-1.25L	.75	.76	.72	11-32U	-.73	.55	.41
8-2.5L	.81	.71	.64	12-32U	-1.23	.79	.57
8-5L	.68	.55	.47	TIP-32C	-1.15	.75	.56
8-8L	.55	.40	.33	11-32L	-.05	.07	.07
8-14L	.39	.27	.20	10-32L	-.04	.01	.03
8-19L	.28	.19	.13	10-70U	-.25	.15	.12
8-32L	.15	.08	.04	11-70U	-1.00	.63	.45
8-38L	.11	.04	.01	12-70U	-1.04	.71	.52
8-44L	.07	0	-.01	TIP-70C	.01	.01	0
8-60L	-.09	.08	.07	12-70L	-1.24	.88	.69
8-95L	.07	.08	.08	11-70L	-.24	.20	.17
9-0C	-3.40	-1.71	-1.04	10-70L	-.08	.09	.08
9-1.25U	-2.53	-1.75	-.07	FIN-1	-.33	.16	.11
9-2.5U	-2.09	-1.53	-1.27	FIN-2	-.83	.39	.23
9-5U	-1.45	-1.09	-.92	FIN-3	-.29	.05	.01
9-14U	-.76	-.61	-.53	FIN-4	0	.04	.03
9-19U	-.64	-.52	-.47	FIN-5	.19	.13	.09
9-32U	-.44	-.37	-.33	FIN-6	.20	.13	.11
9-44U	-.31	-.25	-.21	FIN-7	-4.20	-1.97	-1.24
9-70U	-.17	-.11	-.07	FIN-8	-.09	.03	.04
9-80U	-.08	-.04	-.03	FIN-9	.09	.05	.03
9-100C	.08	.09	.11	FIN-10	.08	.05	.03
9-1.25L	.77	.75	.69	FIN-11	.11	.04	.01
9-5L	.65	.52	.44	FIN-12	.12	.05	.03
9-8L	.49	.36	.28	FIN-13	-1.95	-1.49	-.92
9-14L	.31	.20	.16	FIN-14	-.21	.16	.15
9-19L	.21	.13	.09	FIN-15	.04	.01	0
9-32L	.07	0	.03	FIN-16	.07	.03	.01
9-38L	.05	0	.01	FIN-17	.08	.05	.04
9-44L	.07	.01	0	FIN-18	.12	.07	.04
9-70L	-.03	.05	.05	FIN-19	.08	.03	0
9-90L	.04	.04	.04	FIN-20	.09	.04	.03
9-95L	.08	.09	.11	FIN-21	-.05	.08	.09
2S-60U	-.20	.20	.19	FIN-22	-.04	0	.03
2S-60L	-.03	.05	.07	FIN-23	.05	.01	.01
5S-60U	-.12	.08	.07	FIN-24	.01	.01	.01
5S-60L	0	.03	.04	FIN-25	-.19	.20	.20
8S-60U	-.20	.19	.17	FIN-26	-.08	.12	.12
8S-60L	0	.03	.04	FIN-27	-.03	.05	.07
10-32U	.01	0	0	FIN-28	-.03	.05	.05

TABLE 6. - CONTINUED  
(b) - Continued

ORIFICE	$\beta = .4$	$\beta = .2$	$\beta = .1$	ORIFICE	$\beta = .4$	$\beta = .2$	$\beta = .1$
8-1.25L	.65	.57	.52	11-32U	.31	.23	.19
8-2.5L	.55	.44	.40	12-32U	.41	.28	.23
8-5L	.36	.27	.23	TIP-32C	.41	.29	.24
8-8L	.24	.16	.12	11-32L	.08	.08	.08
8-14L	.13	.08	.05	10-32L	.05	.07	.08
8-19L	.08	.04	.01	10-70U	.09	.08	.07
8-32L	0	.03	.04	11-70U	.32	.21	.16
8-38L	.03	.05	.07	12-70U	.36	.23	.16
8-44L	.05	.07	.08	TIP-70C	0	0	.01
8-60L	.07	.07	.07	12-70L	.52	.37	.29
8-95L	.08	.08	.08	11-70L	.15	.12	.11
9-0C	.44	.01	.16	10-70L	.08	.08	.07
9-1.25U	1.07	.79	.67	FIN-1	.05	.01	.01
9-2.5U	1.00	.79	.71	FIN-2	.12	.05	.04
9-5U	.75	.60	.53	FIN-3	.05	.05	.04
9-14U	.47	.40	.36	FIN-4	0	.04	.05
9-19U	.40	.35	.32	FIN-5	.07	.03	.01
9-32U	.29	.27	.25	FIN-6	.07	.03	0
9-44U	.20	.17	.16	FIN-7	.81	.32	.21
9-70U	.04	.01	.01	FIN-8	.04	0	.01
9-80U	.01	.01	0	FIN-9	0	.04	.05
9-100C	.12	.12	.12	FIN-10	0	.03	.04
9-1.25L	.63	.53	.48	FIN-11	.01	.05	.05
9-5L	.35	.27	.23	FIN-12	0	.01	.03
9-8L	.21	.13	.11	FIN-13	.44	.15	.09
9-14L	.11	.05	.03	FIN-14	.13	.13	.13
9-19L	.04	0	.01	FIN-15	.01	.03	.04
9-32L	.05	.08	.09	FIN-16	0	.01	.03
9-38L	.04	.07	.07	FIN-17	.03	.01	.01
9-44L	.01	.04	.04	FIN-18	.01	0	.01
9-70L	.05	.05	.05	FIN-19	.03	.04	.04
9-90L	.04	.04	.04	FIN-20	0	.01	.03
9-95L	.11	.11	.12	FIN-21	.11	.11	.11
2S-60U	.17	.17	.17	FIN-22	.04	.05	.05
2S-60L	.07	.08	.08	FIN-23	.03	.04	.04
5S-60U	.07	.07	.05	FIN-24	0	0	.01
5S-60L	.07	.07	.08	FIN-25	.20	.20	.19
8S-60U	.16	.16	.15	FIN-26	.13	.13	.13
8S-60L	.05	.07	.07	FIN-27	.08	.08	.08
10-32U	-	-	-	FIN-28	.07	.07	.07



TABLE 6. - CONTINUED  
(b) - Continued

ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$	ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$
8-1.25L	.46	.39	.33	11-32U	.16	.13	.12
8-2.5L	.34	.27	.21	12-32U	.19	.15	.12
8-5L	.18	.12	.08	TIP-32C	.20	.16	.12
8-8L	.08	.04	0	11-32L	.08	.08	.08
8-14L	.03	0	.03	10-32L	.08	.09	.09
8-19L	0	.03	.05	10-70U	.05	.05	.04
8-32L	.05	.07	.08	11-70U	.11	.07	.04
8-38L	.07	.08	.09	12-70U	.12	.08	.04
8-44L	.09	.09	.11	TIP-70C	0	0	.01
8-60L	.07	.07	.07	12-70L	.23	.16	.11
8-95L	.08	.08	.08	11-70L	.09	.08	.07
9-0C	.31	.43	.51	10-70L	.07	.07	.05
9-1.25U	.62	.51	.39	FIN-1	0	0	0
9-2.5U	.61	.51	.41	FIN-2	.03	.03	.07
9-5U	.47	.41	.36	FIN-3	.01	.01	.07
9-14U	.32	.29	.28	FIN-4	.09	.12	.16
9-19U	.30	.27	.25	FIN-5	.01	.03	.07
9-32U	.24	.21	.20	FIN-6	.01	.03	.05
9-44U	.15	.15	.13	FIN-7	.12	.12	.20
9-70U	0	0	0	FIN-8	.04	.07	.12
9-80U	0	0	.01	FIN-9	.08	.09	.12
9-100C	.14	.13	.13	FIN-10	.05	.07	.09
9-1.25L	.42	.35	.29	FIN-11	.07	.08	.09
9-5L	.19	.15	.12	FIN-12	.04	.05	.07
9-8L	.07	.03	0	FIN-13	.04	.05	.11
9-14L	0	.03	.05	FIN-14	.12	.13	.17
9-19L	.03	.05	.07	FIN-15	.05	.05	.07
9-32L	.11	.12	.12	FIN-16	.03	.04	.05
9-38L	.08	.09	.09	FIN-17	0	0	.03
9-44L	.05	.05	.05	FIN-18	.03	.03	.04
9-70L	.05	.05	.04	FIN-19	.05	.05	.07
9-90L	.05	.05	.05	FIN-20	.03	.03	.04
9-95L	.12	.12	.12	FIN-21	.12	.12	.12
28-60U	.18	.17	.17	FIN-22	.05	.05	.07
28-60L	.09	.09	.09	FIN-23	.04	.05	.05
58-60U	.05	.05	.05	FIN-24	0	.01	.01
58-60L	.08	.08	.08	FIN-25	.19	.19	.17
88-60U	.15	.15	.13	FIN-26	.14	.12	.12
88-60L	.07	.07	.08	FIN-27	.08	.08	.08
10-32U	-	-	-	FIN-28	.07	.07	.07

240

.15

TABLE 6. - CONTINUED  
(b) - Continued

ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$	ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$
8-1.25L	.15	.04	.28	11-32U	.09	.11	.11
8-2.5L	.05	.11	.28	12-32U	.08	.07	.08
8-5L	.05	.16	.28	TIP-32C	.08	.07	.08
8-8L	.09	.17	.27	11-32L	.08	.08	.08
8-14L	.08	.15	.21	10-32L	.11	.11	.12
8-19L	.11	.15	.20	10-70U	.04	.04	.05
8-32L	.11	.13	.16	11-70U	.01	.03	.05
8-38L	.12	.13	.15	12-70U	0	.01	0
8-44L	.12	.13	.15	TIP-70C	0	.01	0
8-60L	.07	.08	.09	12-70L	.03	.01	0
8-95L	.08	.09	.08	11-70L	.03	0	.01
9-0C	.61	.59	.44	10-70L	.04	.03	.01
9-1.25U	.14	.05	.23	FIN-1	.03	.07	.12
9-2.5U	.23	.05	.08	FIN-2	.12	.24	.39
9-5U	.23	.11	0	FIN-3	.16	.32	.44
9-14U	.23	.15	.09	FIN-4	.23	.31	.39
9-19U	.20	.16	.12	FIN-5	.11	.17	.23
9-32U	.18	.16	.13	FIN-6	.07	.12	.15
9-44U	.12	0	.09	FIN-7	.43	.81	1.29
9-70U	0	0	.01	FIN-8	.22	.35	.49
9-80U	0	.01	0	FIN-9	.16	.23	.29
9-100C	.14	.13	.13	FIN-10	.14	.17	.20
9-1.25L	.12	.05	.27	FIN-11	.12	.15	.15
9-5L	.01	.08	.19	FIN-12	.08	.09	.11
9-8L	.08	.16	.24	FIN-13	.30	.69	1.17
9-14L	.11	.16	.20	FIN-14	.26	.35	.47
9-19L	.11	.15	.19	FIN-15	.11	.13	.17
9-32L	.15	.16	.17	FIN-16	.07	.09	.12
9-38L	.11	.12	.13	FIN-17	.05	.07	.09
9-44L	.07	.08	.08	FIN-18	.05	.08	.09
9-70L	.04	.03	.03	FIN-19	.08	.09	.11
9-90L	.07	.07	.07	FIN-20	.05	.07	.08
9-95L	.12	.13	.13	FIN-21	.14	.15	.16
28-60U	.18	.17	.16	FIN-22	.08	.09	.09
28-60L	.11	.11	.12	FIN-23	.07	.07	.08
58-60U	.07	.08	.09	FIN-24	0	.01	0
58-60L	.09	.11	.11	FIN-25	.18	.19	.20
83-60U	.12	.11	.09	FIN-26	.14	.13	.13
83-60L	.08	.09	.09	FIN-27	.08	.08	.09
10-32U	0	0	.01	FIN-28	.07	.08	.08



TABLE 6. -- CONTINUED  
(b) -- Concluded

ORIFICE	$\beta = .12$			ORIFICE	$\beta = .12$		
8-1.25L	-.77			11-32U	-.19		
8-2.5L	-.65			12-32U	-.25		
8-5L	-.55			TIP-32C	-.19		
8-8L	-.45			11-32L	-.09		
8-14L	-.33			10-32L	-.12		
8-19L	-.29			10-70U	-.08		
8-32L	-.20			11-70U	-.15		
8-38L	-.17			12-70U	-.07		
8-44L	-.16			TIP-70C	.01		
8-60L	-.12			12-70L	-.09		
8-95L	.08			11-70L	-.03		
9-0C	.25			10-70L	-.01		
9-1.25U	.41			FIN-1	-.25		
9-2.5U	.29			FIN-2	-.79		
9-5U	.17			FIN-3	-.75		
9-14U	-.01			FIN-4	-.45		
9-19U	-.04			FIN-5	-.39		
9-32U	-.09			FIN-6	-.19		
9-44U	-.08			FIN-7	2.73		
9-70U	-.04			FIN-8	-.83		
9-80U	0			FIN-9	-.44		
9-100C	.11			FIN-10	-.29		
9-1.25L	.73			FIN-11	-.20		
9-5L	.43			FIN-12	-.15		
9-8L	.40			FIN-13	2.08		
9-14L	.31			FIN-14	1.72		
9-19L	.25			FIN-15	-.31		
9-32L	.20			FIN-16	-.17		
9-38L	.13			FIN-17	-.15		
9-44L	.09			FIN-18	-.17		
9-70L	0			FIN-19	-.13		
9-90L	.07			FIN-20	-.12		
9-95L	.12			FIN-21	-.23		
2S-60U	.16			FIN-22	-.16		
2S-60L	.13			FIN-23	-.11		
5S-60U	.12			FIN-24	.01		
5S-60L	.12			FIN-25	-.28		
8S-60U	.08			FIN-26	-.19		
8S-60L	.08			FIN-27	-.11		
10-32U	.01			FIN-28	-.11		

TABLE 6. - CONTINUED  
(c)  $\alpha$ ,  $12^\circ$ .

ORIFICE	$\beta = 12$	$\beta = 8$	$\beta = 6$	ORIFICE	$\beta = 12$	$\beta = 8$	$\beta = 6$
1-0C	- 2.19	- .74	- .23	3-1.25U	- 3.91	- 2.72	- 2.16
<del>1-1.25U</del>	<del>- 2.27</del>	<del>- 1.31</del>	<del>- .82</del>	<del>3-8U</del>	<del>- 1.45</del>	<del>- 1.09</del>	<del>- .92</del>
1-2.5U	- 1.49	- .85	- .53	3-14U	- 1.05	- .82	- .70
1-5U	- 1.00	- .58	- .36	3-19U	- .89	- .72	- .62
1-8U	- .84	- .50	- .35	3-32U	- .61	- .50	- .45
1-14J	- .58	- .39	- .28	3-60U	- .30	- .26	- .23
1-19U	- .55	- .41	- .31	3-70U	- .18	- .18	- .16
1-32U	- .43	- .35	- .31	3-95U	- .01	- .04	- .04
<del>1-70U</del>	<del>- .26</del>	<del>- .22</del>	<del>- .19</del>	<del>3-1.25L</del>	<del>- .62</del>	<del>- .72</del>	<del>- .73</del>
1-80U	- .16	- .15	- .15	3-2.5L	- .78	- .73	- .68
<del>1-90U</del>	<del>- .09</del>	<del>- .11</del>	<del>- .09</del>	3-5L	- .74	- .62	- .53
1-95U	- .03	- .03	- .04	3-8L	- .65	- .51	- .43
1-2.5L	.82	.68	.53	3-14L	.51	.41	.31
1-5L	.68	.53	.42	3-32L	.27	.18	.14
1-14L	.45	.47	.26	3-38L	.20	.11	.08
1-19L	.38	.27	.22	3-60L	.07	.01	.01
1-32L	.31	.22	.18	<del>3-80L</del>	<del>- .05</del>	<del>- .03</del>	<del>- .03</del>
1-38L	.23	.15	.09	3-95L	- .04	- .05	- .05
1-60L	.09	.04	.01	4-0C	- 4.16	- 4.49	- 3.19
1-70L	.09	.05	.01	<del>4-1.25U</del>	<del>- 1.20</del>	<del>- 3.01</del>	<del>- 2.47</del>
1-80L	.07	.03	.01	<del>4-2.5U</del>	<del>- 2.99</del>	<del>- 2.20</del>	<del>- 1.84</del>
2-1.25U	- 1.80	- 1.18	- .92	4-14U	- 1.19	- .97	- .85
2-2.5U	- 2.39	- 1.59	- 1.22	4-19U	- .97	- .77	- .68
2-5U	- 1.65	- 1.15	- .91	4-32U	- .68	- .54	- .49
2-32U	- .53	- .42	- .35	4-38U	- .57	- .46	- .41
<del>2-38U</del>	<del>- .55</del>	<del>- .47</del>	<del>- .42</del>	4-60U	- .36	- .31	- .28
<del>2-44U</del>	<del>- .30</del>	<del>- .24</del>	<del>- .23</del>	4-70U	- .20	- .16	- .14
2-70U	- .16	- .19	- .18	4-90U	- .04	- 0	- .01
2-80U	- .08	- .09	- .09	4-95U	- .01	- .04	- .05
2-95U	- .03	- .04	- .03	4-100C	- .01	- .05	- .07
2-100C	- .03	- .01	- .01	<del>4-2.5L</del>	<del>- .78</del>	<del>- .76</del>	<del>- .70</del>
2-1.25L	.69	.76	.72	<del>4-5L</del>	<del>- .77</del>	<del>- .66</del>	<del>- .58</del>
2-2.5L	.80	.70	.62	4-8L	.68	.55	.49
2-5L	.72	.57	.46	<del>4-14L</del>	<del>- .50</del>	<del>- .38</del>	<del>- .31</del>
2-14L	.47	.35	.27	4-19L	.42	.31	.24
2-32L	.24	.15	.11	4-32L	.28	.20	.16
2-38L	.19	.11	.07	4-38L	.19	.12	.08
<del>2-44L</del>	<del>- .16</del>	<del>- .08</del>	<del>- .04</del>	<del>4-44L</del>	<del>- .16</del>	<del>- .09</del>	<del>- .07</del>
<del>2-70L</del>	<del>- .16</del>	<del>- .11</del>	<del>- .08</del>	4-60L	.08	.04	.03
2-95L	.04	.04	.03	4-80L	.07	.05	.04



TABLE 6. - CONTINUED  
(c) - Continued

ORIFICE	$\beta = .4$	$\beta = .2$	$\beta = .1$	ORIFICE	$\beta = .4$	$\beta = .2$	$\beta = .1$
1-0C	.27	.45	.35	3-1.25U	1.66	1.39	1.31
1-1.25U	.23	.16	.30	3-8U	.76	.66	.64
1-2.5U	.18	.08	.18	3-14U	.59	.53	.51
1-5U	.18	.03	.05	3-19U	.53	.46	.46
1-8U	.18	.09	.03	3-32U	.36	.32	.32
1-14J	.22	.12	.09	3-60U	.20	.18	.18
1-19U	.26	.22	.18	3-70U	.12	.07	.07
1-19U	.28	.24	.22	3-70U	.03	.03	.03
1-32U	.20	.22	.19	3-95U	.69	.64	.62
1-70U	.15	.15	.14	3-1.25L	.59	.53	.50
1-80U	.09	.09	.08	3-2.5L	.45	.36	.34
1-90U	.04	.03	.01	3-5L	.35	.30	.27
1-95U	.28	.04	.20	3-8L	.23	.19	.18
1-2.5L	.23	0	.15	3-14L	.08	.04	.04
1-5L	.16	.07	.01	3-32L	.04	0	0
1-14L	.14	.07	0	3-38L	.04	.05	.07
1-19L	.11	.08	.05	3-60L	0	.01	.03
1-32L	.07	.04	0	3-80L	.04	.03	.03
1-38L	.01	.03	.04	3-95L	1.68	1.41	1.00
1-60L	0	.01	.03	4-0C	1.93	1.59	1.39
1-70L	0	.01	.01	4-1.25U	1.47	1.23	1.09
1-80L	.78	.07	.76	4-2.5U	.76	.68	.65
2-1.25U	.78	.59	.58	4-14U	.58	.53	.50
2-2.5U	.59	.49	.47	4-19U	.43	.38	.36
2-5U	.30	.31	.31	4-32U	.36	.35	.32
2-32U	.36	.36	.35	4-38U	.27	.24	.24
2-38U	.22	.22	.22	4-60U	.12	.11	.12
2-44U	.16	.20	.20	4-70U	.01	.01	.01
2-70U	.09	.12	.11	4-90U	.05	.05	.07
2-80U	0	.03	.01	4-95U	.08	.08	.09
2-95U	.04	.08	.04	4-100C	.64	.58	.55
2-100C	1.49	.31	.34	4-2.5L	.50	.43	.39
2-1.25L	.46	.30	.28	4-5L	.41	.34	.31
2-2.5L	.34	.23	.20	4-8L	.23	.18	.15
2-5L	.18	.14	.12	4-14L	.18	.14	.11
2-14L	.05	.04	.04	4-19L	.11	.08	.05
2-32L	.03	.01	.01	4-32L	.04	.01	.01
2-38L	.01	0	0	4-38L	.03	0	.01
2-44L	.05	.03	.03	4-44L	0	.03	.04
2-70L	0	.01	.01	4-60L	.03	.01	.01
2-95L	0	.01	.01	4-80L			

TABLE 6. - CONTINUED  
(c) - Continued

ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$	ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$
1-0C	.46	.58	.66	3-1.25U	1.16	1.01	.84
1-1.25U	.24	.16	.01	3-8U	.59	.55	.50
1-2.5U	.14	.08	.04	3-14U	.49	.46	.43
1-5U	.03	.01	.11	3-19U	.45	.43	.41
1-8U	.05	.09	.15	3-32U	.32	.32	.31
1-14J	.09	.12	.16	3-60U	.18	.19	.19
1-19U	.19	.20	.23	3-70U	.09	.14	.15
1-32U	.22	.23	.24	3-95U	.03	.03	.04
1-70U	.18	.19	.19	3-1.25L	.59	.55	.53
1-80U	.14	.14	.12	3-2.5L	.46	.42	.36
1-95U	.08	.08	.08	3-5L	.30	.24	.20
1-95U	.01	.01	0	3-8L	.23	.19	.15
1-2.5L	.16	.09	0	3-14L	.14	.11	.08
1-5L	.14	.09	.04	3-32L	.01	.01	0
1-14L	.03	.03	0	3-38L	.03	.03	.04
1-19L	.01	.03	0	3-60L	.07	.07	.07
1-32L	.04	.03	.04	3-83L	.01	.01	0
1-38L	.01	.03	.03	3-95L	.03	.04	.05
1-60L	.04	.05	.05	4-0C	.61	.38	.08
1-70L	.03	.04	.04	4-1.25U	1.22	1.11	.93
1-80L	.01	.03	.03	4-2.5U	.93	.86	.78
2-1.25U	.78	1.09	.97	4-14U	.59	.58	.54
2-2.5U	.51	.47	.47	4-19U	.46	.45	.41
2-5U	.43	.42	.43	4-32U	.35	.35	.32
2-32U	.28	.27	.28	4-38U	.31	.35	.34
2-38U	.32	.32	.34	4-60U	.26	.26	.26
2-44U	.22	.23	.22	4-70U	.12	.12	.11
2-70U	.16	.15	.16	4-90U	0	0	0
2-80U	.09	.08	.08	4-95U	.05	.05	.05
2-95U	.01	.03	.03	4-100C	.09	.09	.11
2-100C	0	.01	.04	4-2.5L	.50	.46	.41
2-1.25L	.31	.31	.31	4-5L	.34	.31	.24
2-2.5L	.26	.23	.22	4-8L	.26	.23	.19
2-5L	.18	.15	.12	4-14L	.11	.08	.05
2-14L	.09	.08	.05	4-19L	.08	.05	.03
2-32L	.03	.01	0	4-32L	.04	.03	.01
2-38L	0	.01	.03	4-38L	.03	.04	.05
2-44L	.01	.03	.03	4-44L	.03	.04	.05
2-70L	.03	.03	.03	4-60L	.04	.04	.05
2-95L	.01	.03	.03	4-80L	.01	.01	0



TABLE 6. - CONTINUED  
(c) - Continued

ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$	ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$
1-0C	.62	.44	.57	3-1.25U	-.59	-.98	-.55
<del>1-1.25U</del>	<del>.36</del>	<del>1.00</del>	<del>.54</del>	<del>3-8U</del>	<del>-.42</del>	<del>-.87</del>	<del>-.42</del>
1-2.5U	-.32	-.91	-.45	3-14U	-.38	-.83	-.38
1-5U	-.30	-.85	-.41	3-19U	-.36	-.83	-.38
1-8U	-.31	-.85	-.38	3-32U	-.28	-.74	-.30
1-14J	-.27	-.78	-.31	3-60U	-.20	-.63	-.22
1-19U	-.31	-.83	-.36	3-70U	-.16	-.61	-.24
1-32U	-.28	-.80	-.32	3-95U	-.04	-.33	-.01
<del>1-70U</del>	<del>-.20</del>	<del>-.65</del>	<del>-.20</del>	<del>3-1.25L</del>	<del>-.45</del>	<del>-.15</del>	<del>-.42</del>
1-80U	-.14	-.57	-.15	3-2.5L	-.28	-.07	-.23
<del>1-90U</del>	<del>-.08</del>	<del>-.50</del>	<del>-.09</del>	3-5L	-.14	-.28	-.07
1-95U	-.01	-.41	-.03	3-8L	-.09	-.31	-.03
1-2.5L	.18	.07	.26	3-14L	.03	.39	.03
1-5L	.08	.24	.12	3-32L	-.03	.44	.08
1-14L	.03	.33	.03	3-38L	-.07	.50	.11
1-19L	.01	.37	0	3-60L	-.08	.50	.11
1-32L	.04	.33	.03	<del>3-80L</del>	<del>-.01</del>	<del>-.39</del>	<del>-.03</del>
1-38L	-.03	.43	.04	3-95L	-.07	.28	.07
1-60L	-.05	.48	.09	4-0C	.26	.35	.65
1-70L	-.04	.46	.09	<del>4-1.25U</del>	<del>-.62</del>	<del>-.78</del>	<del>-.03</del>
1-80L	-.03	.43	.05	<del>4-2.5U</del>	<del>-.57</del>	<del>-.80</del>	<del>-.08</del>
2-1.25U	-.88	1.54	.91	4-14U	-.46	-.87	-.28
2-2.5U	-.55	1.33	.92	4-19U	-.35	-.74	-.20
2-5U	-.50	1.19	.73	4-32U	-.30	-.70	-.19
2-32U	-.30	.81	.34	4-38U	-.31	-.74	-.23
<del>2-38U</del>	<del>-.36</del>	<del>.93</del>	<del>.41</del>	4-60U	-.24	-.69	-.22
<del>2-44U</del>	<del>-.22</del>	<del>.69</del>	<del>.23</del>	4-70U	-.08	-.46	-.04
2-70U	-.20	.67	.19	4-90U	0	-.39	-.01
2-80U	-.09	.52	.09	4-95U	.05	-.30	-.04
2-95U	.04	.31	.04	4-100C	.12	-.37	.15
2-100C	.07	.30	.04	<del>4-2.5L</del>	<del>-.31</del>	<del>-.15</del>	<del>0</del>
2-1.25L	.42	.33	.59	4-5L	-.18	-.28	-.05
2-2.5L	.26	.07	.41	4-8L	.12	-.31	-.05
2-5L	.12	.17	.23	<del>4-14L</del>	<del>0</del>	<del>-.46</del>	<del>-.15</del>
2-14L	.03	.33	.04	4-19L	-.01	-.48	-.14
2-32L	-.03	.43	.05	4-32L	-.01	-.44	-.09
2-38L	-.04	.46	.08	4-38L	-.07	-.52	-.14
<del>2-44L</del>	<del>-.04</del>	<del>.46</del>	<del>.09</del>	<del>4-44L</del>	<del>-.07</del>	<del>-.50</del>	<del>-.12</del>
2-70L	.04	.33	0	4-60L	-.07	-.48	-.09
2-95L	.04	.33	.03	4-80L	0	-.37	0

TABLE 6. - CONTINUED  
(c) - Continued

ORIFICE	$\beta = 1.2$		ORIFICE	$\beta = 1.2$	
1-0C	.69		3-1.25U	1.64	
1-1.25U	.26		3-8U	.74	
1-2.5U	.24		3-14U	.55	
1-5U	.24		3-19U	.47	
1-8U	.27		3-32U	.31	
1-14U	.26		3-60U	.18	
1-19U	.32		3-70U	.07	
1-32U	.32		3-95U	.01	
1-40U	.22		3-1.25L	.69	
1-80U	.18		3-2.5L	.55	
1-95U	.11		3-5L	.35	
1-95U	.04		3-8L	.24	
1-2.5L	.11		3-14L	.11	
1-5L	.01		3-32L	.05	
1-14L	.04		3-38L	.11	
1-19L	.07		3-60L	.14	
1-32L	.03		3-80L	.05	
1-38L	.09		3-95L	.03	
1-60L	.14		4-0C	.34	
1-70L	.14		4-1.25U	.54	
1-80L	.08		4-2.5U	.50	
2-1.25U	.92		4-14U	.45	
2-2.5U	.80		4-19U	.36	
2-5U	.65		4-32U	.31	
2-32U	.34		4-38U	.27	
2-38U	.41		4-60U	.26	
2-44U	.24		4-70U	.14	
2-70U	.18		4-90U	.07	
2-80U	.09		4-95U	.01	
2-95U	.04		4-100C	.14	
2-100C	.05		4-2.5L	.11	
2-1.25L	.53		4-5L	.01	
2-2.5L	.36		4-8L	.04	
2-5L	.20		4-14L	.16	
2-14L	.04		4-19L	.16	
2-32L	.07		4-32L	.14	
2-38L	.09		4-38L	1.66	
2-44L	.11		4-44L	.16	
2-70L	.04		4-60L	.41	
2-95L	.01		4-80L	.04	



TABLE 6.- CONTINUED  
(c)- Continued

ORIFICE	$\beta=1.2$	$\beta=8$	$\beta=6$	ORIFICE	$\beta=1.2$	$\beta=8$	$\beta=6$
4-90L	.04	.05	.05	6-8L	.64	.59	.53
4-95L	.03	.05	.05	6-14L	.48	.42	.36
5-0C	- 2.78	- 4.82	- 3.50	6-19L	.40	.34	.30
5-1.25U	- 2.11	- 3.39	- 2.76	6-38L	.15	.14	.11
5-8U	- 2.21	- 1.28	- 1.09	6-44L	.11	.08	.07
5-14U	- 1.77	.96	.84	6-60L	- 0	.01	0
5-19U	- 1.56	.85	.74	6-70L	.05	.08	.08
5-38U	- .78	.51	.45	7-0C	- 2.36	- 1.85	- 4.55
5-44U	- .64	.43	.38	7-5U	- 1.32	- 1.74	- 1.55
5-60U	- .38	.28	.26	7-8U	- 1.36	- 1.64	- 1.15
5-70U	- .23	.19	.16	7-14U	- 1.29	- 1.22	- .82
5-80U	- .18	.09	.08	7-19U	- 1.19	.97	.70
5-90U	- .10	.01	.01	7-38U	- .78	.49	.45
5-95U	- .07	.04	.05	7-60U	- .48	.26	.23
5-1.25L	.75	.26	.70	7-90U	- .23	.04	.03
5-2.5L	.86	.77	.73	7-95U	- .21	0	.07
5-5L	.78	.69	.62	7-1.25L	.78	.72	.68
5-8L	.67	.58	.51	7-2.5L	.84	.73	.73
5-14L	.51	.43	.36	7-5L	.73	.65	.62
5-19L	.40	.34	.27	7-8L	.60	.54	.51
5-38L	.18	.14	.11	7-14L	.45	.39	.36
5-44L	.14	.11	.08	7-19L	.36	.31	.27
5-60L	.01	.01	.01	7-32L	.60	.16	.14
5-70L	.08	.08	.07	7-44L	.10	.08	.07
5-90L	.03	.05	.05	7-60L	- 0	.01	0
5-95L	.01	.05	.07	7-70L	.05	.01	0
6-0C	- 1.55	- 4.34	- 3.64	7-90L	.08	.03	.04
6-5U	- 1.40	- 1.96	- 1.57	7-95L	- .10	.04	.07
6-14U	- 1.40	- 1.07	- .85	8-0C	- 1.16	- 2.08	- 4.28
6-19U	- .03	.01	.01	8-1.25U	- .89	- 1.88	- 2.78
6-32U	- .64	.46	.41	8-2.5U	- .90	- 1.95	- 2.12
6-44U	- .49	.35	.31	8-5U	- .92	- 1.80	- 1.43
6-60U	- .48	.26	.24	8-8U	- .93	- 1.50	0
6-70U	- .37	.16	.18	8-14U	- .93	- 1.01	.78
6-80U	- .30	.07	.07	8-19U	- .97	.85	.68
6-90U	.01	.03	.03	8-60U	- .05	.05	.05
6-100C	- .21	.05	.08	8-80U	- .27	.08	.04
6-1.25L	.75	.68	.69	8-90U	- .22	.03	.03
6-2.5L	.79	.78	.72	8-95U	- .04	.03	.03
6-5L	.73	.70	.62	8-100C	- .21	.01	.09

TABLE 6.- CONTINUED  
(c)- Continued

ORIFICE	$\beta=4$	$\beta=2$	$\beta=1$	ORIFICE	$\beta=4$	$\beta=2$	$\beta=1$
4-90L	.04	.03	.03	6-8L	.46	.39	.34
4-95L	.05	.05	.05	6-14L	.30	.24	.20
5-0C	- 2.39	- 1.61	- 1.16	6-19L	.24	.19	.13
5-1.25U	- .81	- 1.70	- 1.61	6-38L	.07	.03	.01
5-8U	- .93	- .80	- .73	6-44L	.03	0	.01
5-14U	- .73	- .64	- .58	6-60L	- .03	- .05	- .05
5-19U	- .66	- .59	- .55	6-70L	- .05	- .04	- .03
5-38U	- .41	- .36	- .35	7-0C	- 3.32	- 2.36	- 1.85
5-44U	- .34	- .31	- .30	7-5U	- 1.31	- 1.12	- 1.01
5-60U	- .23	- .23	- .22	7-8U	- .99	- .85	- .77
5-70U	- .16	- .16	- .16	7-14U	- .72	- .62	- .58
5-80U	- .08	- .08	- .08	7-19U	- .62	- .55	- .51
5-90U	.01	0	0	7-38U	- .42	- .38	- .36
5-95U	.05	.04	.04	7-60U	- .22	- .20	0
5-1.25L	.70	.69	.66	7-90U	.03	.01	.01
5-2.5L	.68	.62	.58	7-95U	.07	.07	.07
5-5L	.54	.46	.41	7-1.25L	.69	.68	.66
5-8L	.42	.35	.32	7-2.5L	.53	.62	.58
5-14L	.30	.24	.20	7-5L	.54	.47	.43
5-19L	.22	.16	.14	7-8L	.45	.36	.25
5-38L	.07	.03	.01	7-14L	.30	.24	.20
5-44L	.04	.01	0	7-19L	.22	.16	.14
5-60L	- .03	- .05	- .07	7-32L	.09	.05	.04
5-70L	.04	.03	.03	7-44L	.04	0	.01
5-90L	.05	.04	.03	7-60L	- .01	- .04	- .04
5-95L	.07	.05	.07	7-70L	- .01	- .03	- .03
6-0C	- 2.53	- 1.70	- .98	7-90L	.04	.04	.04
6-5U	- 1.34	- 1.14	- 1.03	7-95L	.07	.07	.07
6-14U	- .74	- .66	- .47	8-0C	- 3.15	- 2.26	- 1.78
6-19U	- .01	- .01	0	8-1.25U	- 2.28	- 1.89	- 1.68
6-32U	- .36	- .34	- .23	8-2.5U	- 1.78	- 1.51	- 1.36
6-44U	- .30	- .27	- .19	8-5U	- 1.22	- 1.04	- .95
6-60U	- .23	- .22	- .17	8-8U	- .96	- .82	- .74
6-70U	- .16	- .16	- .16	8-14U	- .68	- .59	- .55
6-80U	- .07	- .07	- .02	8-19U	- .59	- .53	- .49
6-90U	.03	.03	.01	8-60U	- .05	- .05	- .05
6-100C	.08	.08	.09	8-80U	- .04	- .04	- .04
6-1.25L	.70	.69	.68	8-90U	.03	.03	.03
6-2.5L	.66	.61	.57	8-95U	- .04	- .05	- .05
6-5L	.55	.47	.43	8-100C	.11	.11	.11



TABLE 6.- CONTINUED  
(c)- Continued

ORIFICE	$\beta=0$	$\beta=1$	$\beta=2$	ORIFICE	$\beta=0$	$\beta=1$	$\beta=2$
4-90L	.04	.04	.04	6-8L	.31	.27	.24
4-95L	.07	.07	.07	6-14L	.17	.15	.12
5-0C	.71	.44	.19	6-19L	.13	.12	.08
5-1.25U	1.55	1.32	1.08	6-38L	0	0	.01
5-8U	.61	.56	.49	6-44L	.01	.03	.04
5-14U	.51	.47	.43	6-60L	.05	.05	.07
5-19U	.48	.45	.43	6-70L	.03	.03	.01
5-38U	.32	.29	.29	7-0C	1.30	1.01	.71
5-44U	.27	.20	.24	7-5U	.88	.80	.71
5-60U	.20	.20	.19	7-8U	.67	.60	.53
5-70U	.13	.13	.13	7-14U	.51	.47	.33
5-80U	.07	.07	.07	7-19U	.45	.41	.30
5-90U	.01	.01	.01	7-38U	.32	.31	.29
5-95U	.05	.05	.05	7-60U	.17	.17	.17
5-1.25L	.64	.60	.56	7-90U	.03	.03	.01
5-2.5L	.53	.49	.45	7-95U	.08	.08	.07
5-5L	.37	.33	.28	7-1.25L	.65	.61	.59
5-8L	.28	.25	.20	7-2.5L	.53	.49	.45
5-14L	.19	.15	.12	7-5L	.39	.35	.31
5-19L	.12	.09	.07	7-8L	.29	.25	.21
5-38L	0	0	.01	7-14L	.17	.15	.12
5-44L	0	.01	.03	7-19L	.12	.09	.07
5-60L	.05	.07	.07	7-32L	.03	.03	0
5-70L	.03	.03	.01	7-44L	.01	.01	.03
5-90L	.05	.05	.05	7-60L	.04	.04	.05
5-95L	.08	.08	.08	7-70L	.03	.03	.03
6-0C	.80	.55	.28	7-90L	.05	.05	.04
6-5U	.88	.80	.71	7-95L	.08	.08	.08
6-14U	.53	.43	.45	8-0C	1.29	1.00	.72
6-19U	.01	0	0	8-1.25U	1.41	1.24	1.09
6-32U	.25	.21	.37	8-2.5U	1.15	1.05	.95
6-44U	.20	.19	.29	8-5U	.80	.72	.67
6-60U	.15	.19	.18	8-8U	.64	.59	.55
6-70U	.14	.15	.15	8-14U	.47	.44	.40
6-80U	.05	.05	.05	8-19U	.41	.38	.36
6-90U	.03	.03	.03	8-60U	.04	.04	.05
6-100C	.12	.12	.12	8-80U	.03	.01	.03
6-1.25L	.64	.63	.59	8-90U	.04	.04	.03
6-2.5L	.51	.47	.43	8-95U	.04	.04	.04
6-5L	.39	.36	.31	8-100C	.13	.13	.13

TABLE 6.- CONTINUED  
(c)- Continued

ORIFICE	$\beta=4$	$\beta=6$	$\beta=8$	ORIFICE	$\beta=4$	$\beta=6$	$\beta=8$
4-90L	.04	.04	.04	6-8L	.16	.07	.01
4-95L	.07	.08	.08	6-14L	.07	.01	.08
5-0C	.19	.49	.57	6-19L	.05	.01	.08
5-1.25U	.74	.38	.05	6-38L	.05	.08	.11
5-8U	.38	.27	.12	6-44L	.07	.09	.12
5-14U	.35	.24	.18	6-60L	.07	.09	.11
5-19U	.36	.28	.22	6-70L	0	0	.01
5-38U	.26	.22	.18	7-0C	.18	.28	.09
5-44U	.22	.18	.14	7-5U	.55	.36	.22
5-60U	.19	.16	.15	7-8U	.43	.28	.19
5-70U	.12	.09	.07	7-14U	.35	.26	.19
5-80U	.07	.07	.05	7-19U	.32	.24	.18
5-90U	0	0	0	7-38U	.26	.22	.18
5-95U	.04	.03	.03	7-60U	.16	.14	.12
5-1.25L	.47	.30	.08	7-90U	.01	.01	0
5-2.5L	.35	.20	.03	7-95U	.07	.07	.07
5-5L	.32	.05	.08	7-1.25L	.50	.36	.19
5-8L	.14	.03	.05	7-2.5L	.36	.23	.05
5-14L	.05	0	.08	7-5L	.22	.09	.03
5-19L	.01	.05	.12	7-8L	.14	.04	.07
5-38L	.05	.06	.12	7-14L	.05	.03	.09
5-44L	.04	.08	.11	7-19L	.03	.05	.11
5-60L	.08	.09	.12	7-32L	.03	.07	.11
5-70L	.01	0	.01	7-44L	.05	.08	.11
5-90L	.05	.05	.05	7-60L	.07	.08	.08
5-95L	.08	.08	.08	7-70L	.04	.04	.05
6-0C	.11	.42	.53	7-90L	.04	.04	.04
6-5U	.54	.35	.20	7-95L	.08	.08	.08
6-14U	.38	.28	.20	8-0C	.20	.24	.46
6-19U	0	0	0	8-1.25U	.81	.47	.20
6-32U	.35	.32	.28	8-2.5U	.73	.49	.27
6-44U	.28	.26	.22	8-5U	.50	.36	.22
6-60U	.16	.15	.12	8-8U	.43	.30	.20
6-70U	.14	.12	.11	8-14U	.34	.26	.19
6-80U	.05	.05	.05	8-19U	.30	.22	.18
6-90U	.03	.03	.03	8-60U	.05	.04	.05
6-100C	.12	.12	.12	8-80U	.03	.02	.01
6-1.25L	.50	.35	.15	8-90U	.03	.03	.03
6-2.5L	.31	.16	0	8-95U	.05	.05	.07
6-5L	.22	.09	.04	8-100C	.14	.14	.14



TABLE 6.- CONTINUED  
(c)- Continued

ORIFICE	$\beta=1.2$		ORIFICE	$\beta=1.2$	
4-90L	.03		6-8L	-.31	
4-95L	.05		6-14L	-.28	
5-0C	-.07		6-19L	-.24	
5-1.25U	.43		6-38L	-.19	
5-8U	.14		6-44L	-.18	
5-14U	.05		6-60L	-.14	
5-19U	-.03		6-70L	-.04	
5-38U	-.07		7-0C	.26	
5-44U	-.05		7-5U	.11	
5-60U	-.09		7-8U	.07	
5-70U	.04		7-14U	- 0	
5-80U	-.04		7-19U	-.01	
5-90U	0		7-38U	-.09	
5-95U	.01		7-60U	-.08	
5-1.25L	.62		7-90U	- 0	
5-2.5L	.49		7-95U	.05	
5-5L	.46		7-1.25L	.47	
5-8L	-.34		7-2.5L	.42	
5-14L	-.28		7-5L	.38	
5-19L	-.27		7-8L	.31	
5-38L	-.19		7-14L	.24	
5-44L	-.16		7-19L	.24	
5-60L	-.15		7-32L	.19	
5-70L	.04		7-44L	.15	
5-90L	.05		7-60L	.11	
5-95L	.08		7-70L	.07	
6-0C	-.03		7-90L	.05	
6-5U	.15		7-95L	.08	
6-14U	- 0		8-0C	.31	
6-19U	- 0		8-1.25U	.28	
6-32U	-.22		8-2.5U	.14	
6-44U	-.18		8-5U	.08	
6-60U	-.08		8-8U	.03	
6-70U	.07		8-14U	-.01	
6-80U	.03		8-19U	-.08	
6-90U	.03		8-60U	.05	
6-100C	.12		8-80U	.01	
6-1.25L	.45		8-90U	.03	
6-2.5L	.57		8-95U	.08	
6-5L	.42		8-100C	.12	

TABLE 6. - CONTINUED  
(c) - Continued

ORIFICE	$\beta = -12$	$\beta = -8$	$\beta = -6$	ORIFICE	$\beta = -12$	$\beta = -8$	$\beta = -6$
8-1.25L	.79	.70	.68	11-32U	.63	.69	.62
8-2.5L	.79	.74	.72	12-32U	.88	1.14	1.07
8-5L	.67	.64	.61	TIP-32C	1.03	1.19	1.09
8-8L	.55	.51	.47	11-32L	.08	.15	.16
8-14L	.40	.36	.34	10-32L	.04	0	.03
8-19L	.32	.27	.26	10-70U	.47	.49	.24
8-32L	.16	.14	.12	11-70U	.40	.59	.76
8-38L	.11	.09	.07	12-70U	.33	.50	.72
8-44L	.05	.04	.03	TIP-70C	.03	.04	.03
8-60L	.11	.08	.07	12-70L	.62	1.00	1.26
8-95L	.10	.01	.05	11-70L	.16	.24	.30
9-0C	.63	1.45	3.12	10-70L	.08	.09	.12
9-1.25U	.77	1.77	2.30	FIN-1	.33	.15	.08
9-2.5U	.77	1.73	1.91	FIN-2	.79	.35	.20
9-5U	.75	1.61	1.31	FIN-3	.22	0	.05
9-14U	.81	.97	.69	FIN-4	.04	.05	.04
9-19U	.82	.73	.57	FIN-5	.19	.14	.11
9-32U	.70	.41	.39	FIN-6	.21	.15	.12
9-44U	.53	.28	.26	FIN-7	3.97	1.78	1.09
9-70U	.32	.14	.11	FIN-8	.01	.08	.09
9-80U	.33	.11	.05	FIN-9	.12	.08	.07
9-100C	.29	.04	.04	FIN-10	.11	.07	.05
9-1.25L	.78	.73	.69	FIN-11	.11	.04	.03
9-5L	.62	.59	.58	FIN-12	.11	.07	.04
9-8L	.48	.45	.43	FIN-13	2.66	1.55	.88
9-14L	.32	.28	.26	FIN-14	.16	.11	.09
9-19L	.23	.20	.19	FIN-15	.07	.04	.03
9-32L	.08	.04	.03	FIN-16	.08	.05	.04
9-38L	.07	.04	.03	FIN-17	.11	.08	.07
9-44L	.07	.05	.03	FIN-18	.11	.07	.05
9-70L	.08	.05	.05	FIN-19	.08	.03	.01
9-90L	.07	0	.03	FIN-20	.10	.05	.04
9-95L	.08	.04	.08	FIN-21	.04	.07	.08
2S-60U	.26	.22	.19	FIN-22	.04	0	.01
2S-60L	.04	.04	.05	FIN-23	.04	.01	0
5S-60U	.12	.09	.08	FIN-24	.03	.04	.03
5S-60L	.01	.01	.01	FIN-25	.19	.19	.19
8S-60U	.32	.19	.16	FIN-26	.10	.12	.12
8S-60L	.03	.01	.01	FIN-27	.04	.05	.05
10-32U	.03	.03	.03	FIN-28	.03	.05	.05



TABLE 6. - CONTINUED  
(c) - Continued

ORIFICE	$\beta = 4$	$\beta = 2$	$\beta = 1$	ORIFICE	$\beta = 4$	$\beta = 2$	$\beta = 1$
8-1.25L	.68	.66	.65	11-32U	-.49	-.42	-.35
8-2.5L	.68	.63	.58	12-32U	-.81	-.62	-.51
8-5L	.54	.46	.42	TIP-32C	-.86	-.68	-.58
8-8L	.41	.34	.31	11-32L	-.16	-.15	-.15
8-14L	.27	.22	.19	10-32L	-.04	-.05	-.07
8-19L	.20	.16	.14	10-70U	-.18	-.14	-.12
8-32L	.08	.05	.04	11-70U	-.61	-.54	-.51
8-38L	.04	.01	0	12-70U	-.55	-.43	-.35
8-44L	- 0	-.01	-.03	TIP-70C	.03	.03	.03
8-60L	-.05	-.05	-.05	12-70L	- 1.03	-.85	-.73
8-95L	.07	.07	.07	11-70L	-.27	-.24	-.22
9-0C	- 2.20	- 1.49	- 1.12	10-70L	-.11	-.11	-.11
9-1.25U	- 1.88	- 1.54	- 1.36	FIN-1	-.03	0	.01
9-2.5U	- 1.59	- 1.35	- 1.20	FIN-2	-.09	-.04	-.03
9-5U	- 1.12	-.96	-.86	FIN-3	.08	.07	.05
9-14U	-.61	-.54	-.50	FIN-4	- 0	-.05	-.08
9-19U	-.50	-.46	-.42	FIN-5	.07	.03	0
9-32U	-.35	-.31	-.30	FIN-6	.07	.03	0
9-44U	-.23	-.20	-.19	FIN-7	-.55	-.24	-.12
9-70U	-.08	-.04	-.03	FIN-8	.08	.04	.01
9-80U	-.04	-.03	-.01	FIN-9	.03	.01	.03
9-100C	.07	.08	.09	FIN-10	.01	.01	.03
9-1.25L	.68	.65	.64	FIN-11	-.01	-.04	-.05
9-5L	.50	.45	.41	FIN-12	.01	.01	.03
9-8L	.35	.30	.26	FIN-13	-.34	-.08	-.03
9-14L	.20	.16	.14	FIN-14	-.09	-.09	-.09
9-19L	.14	.11	.08	FIN-15	- 0	.01	.01
9-32L	- 0	-.03	-.04	FIN-16	.01	0	0
9-38L	- 0	-.03	-.03	FIN-17	.05	.04	.03
9-44L	.01	0	-.01	FIN-18	.03	0	0
9-70L	-.05	-.05	-.05	FIN-19	-.01	-.03	-.05
9-90L	.03	.04	.03	FIN-20	.01	.01	.01
9-95L	.09	.09	.11	FIN-21	-.09	-.09	-.09
2S-60U	-.19	-.19	-.19	FIN-22	-.03	-.04	-.04
2S-60L	-.05	-.05	-.05	FIN-23	-.03	-.03	-.03
5S-60U	-.07	-.05	-.05	FIN-24	.03	.03	.03
5S-60L	-.03	-.04	-.04	FIN-25	-.19	-.19	-.18
8S-60U	-.16	-.15	-.15	FIN-26	-.12	-.12	-.12
8S-60L	-.03	-.04	-.04	FIN-27	-.07	-.07	-.07
10-32U	.03	.03	.03	FIN-28	-.05	-.05	-.05

TABLE 6. - CONTINUED  
(c) - Continued

ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$	ORIFICE	$\beta = 0$	$\beta = 1$	$\beta = 2$
8-1.25L	.65	.59	.55	11-32U	-.28	-.23	-.19
8-2.5L	.54	.50	.46	12-32U	-.42	-.35	-.30
8-5L	.38	.34	.30	TIP-32C	-.49	-.42	-.35
8-8L	.26	.23	.20	11-32L	-.15	-.15	-.15
8-14L	.15	.14	.11	10-32L	-.08	-.08	-.08
8-19L	.11	.09	.07	10-70U	-.09	-.08	-.08
8-32L	.01	0	-.01	11-70U	-.45	-.35	-.26
8-38L	-.01	-.01	-.03	12-70U	-.28	-.23	-.19
8-44L	-.04	-.04	-.05	TIP-70C	.03	.03	.03
8-60L	-.05	-.05	-.05	12-70L	-.62	-.53	-.46
8-95L	.07	.08	.07	11-70L	-.20	-.19	-.16
9-0C	-.77	-.54	-.31	10-70L	-.09	-.09	-.09
9-1.25U	1.18	1.03	.86	FIN-1	.03	.03	.01
9-2.5U	1.07	.96	.85	FIN-2	-.03	-.03	-.07
9-5U	.78	.70	.65	FIN-3	.03	.01	.08
9-14U	.46	.42	.41	FIN-4	-.11	-.14	-.18
9-19U	.39	.36	.35	FIN-5	-.03	-.04	-.07
9-32U	.28	.26	.26	FIN-6	-.03	-.04	-.07
9-44U	.18	.16	.16	FIN-7	-.05	-.07	-.14
9-70U	.01	.01	0	FIN-8	-.01	-.04	-.08
9-80U	.01	0	0	FIN-9	-.05	-.07	-.09
9-100C	.09	.09	.11	FIN-10	-.05	-.07	-.08
9-1.25L	.59	.55	.53	FIN-11	-.07	-.08	-.09
9-5L	.35	.32	.28	FIN-12	-.04	-.05	-.05
9-8L	.22	.19	.16	FIN-13	.01	0	.04
9-14L	.11	.09	.07	FIN-14	-.09	-.12	-.15
9-19L	.05	.04	.03	FIN-15	-.03	-.04	-.05
9-32L	-.05	-.07	-.07	FIN-16	-.01	-.03	-.03
9-38L	-.04	-.05	-.05	FIN-17	.01	.01	.03
9-44L	-.01	-.03	-.03	FIN-18	-.01	-.01	-.03
9-70L	-.05	-.05	-.05	FIN-19	-.05	-.05	-.07
9-90L	.04	.04	.04	FIN-20	-.03	-.03	-.04
9-95L	.11	.11	.11	FIN-21	-.11	-.09	-.09
2S-60U	-.18	-.18	-.19	FIN-22	-.05	-.05	-.05
2S-60L	-.05	-.07	-.07	FIN-23	-.04	-.04	-.04
5S-60U	-.05	-.05	-.05	FIN-24	.03	.03	.03
5S-60L	-.04	-.04	-.05	FIN-25	-.18	-.15	-.15
8S-60U	-.15	-.15	-.15	FIN-26	-.12	-.12	-.11
8S-60L	-.04	-.04	-.04	FIN-27	-.07	-.07	-.07
10-32U	.03	.03	.03	FIN-28	-.05	-.07	-.07



TABLE 6. - CONTINUED  
(c) - Continued

ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$	ORIFICE	$\beta = 4$	$\beta = 6$	$\beta = 8$
8-1.25L	.47	.32	.16	11-32U	-.14	.11	.08
8-2.5L	.35	.23	.08	12-32U	-.19	.12	.05
8-5L	.22	.09	.01	TIP-32C	-.23	.14	.08
8-8L	.12	.03	.05	11-32L	-.12	.12	.09
8-14L	.04	.03	.08	10-32L	-.09	.09	.09
8-19L	.01	.05	.09	10-70U	-.05	.04	.03
8-32L	.03	.05	.08	11-70U	-.08	.03	0
8-38L	.05	.07	.08	12-70U	-.11	.05	.01
8-44L	.07	.08	.09	TIP-70C	.03	.03	.03
8-60L	.07	.08	.08	12-70L	-.26	.07	.01
8-95L	.07	.08	.08	11-70L	-.14	.11	.01
9-0C	.07	.36	.50	10-70L	-.08	.05	.03
9-1.25U	.72	.43	.18	FIN-1	0	.05	.09
9-2.5U	.65	.45	.24	FIN-2	.12	.23	.38
9-5U	.50	.38	.23	FIN-3	.19	.32	.50
9-14U	.34	.27	.22	FIN-4	.24	.36	.46
9-19U	.30	.24	.19	FIN-5	.12	.19	.24
9-32U	.23	.20	.16	FIN-6	.09	.14	.18
9-44U	.15	.14	.11	FIN-7	.36	.68	1.19
9-70U	.01	.01	0	FIN-8	.19	.31	.46
9-80U	0	0	.01	FIN-9	.15	.20	.27
9-100C	.11	.12	.12	FIN-10	.12	.18	.23
9-1.25L	.43	.30	.15	FIN-11	.12	.15	.15
9-5L	.20	.11	0	FIN-12	.08	.09	.11
9-8L	.09	.01	.07	FIN-13	.22	.59	1.23
9-14L	.01	.03	.08	FIN-14	.23	.32	.47
9-19L	.01	.05	.09	FIN-15	.08	.12	.18
9-32L	.09	.11	.12	FIN-16	.04	.07	.11
9-38L	.07	.08	.09	FIN-17	.04	.07	.11
9-44L	.04	.05	.05	FIN-18	.05	.07	.09
9-70L	.05	.04	.03	FIN-19	.08	.09	.09
9-90L	.05	.05	.07	FIN-20	.05	.07	.07
9-95L	.12	.12	.14	FIN-21	.11	.14	.15
2S-60U	.19	.20	.20	FIN-22	.07	.08	.09
2S-60L	.08	.09	.09	FIN-23	.05	.07	.07
5S-60U	.07	.08	.09	FIN-24	.03	.03	.03
5S-60L	.05	.07	.08	FIN-25	.16	.19	.22
8S-60U	.15	.14	.12	FIN-26	.11	.12	.14
8S-60L	.05	.05	.07	FIN-27	.07	.07	.08
10-32U	.03	.03	.03	FIN-28	.05	.07	.07

TABLE 6. - CONCLUDED  
(c) - Concluded

ORIFICE	$\beta = 1.2$		ORIFICE	$\beta = 1.2$
8-1.25L	-.39		11-32U	-.15
8-2.5L	-.31		12-32U	-.11
8-5L	-.32		TIP-32C	-.08
8-8L	-.28		11-32L	-.07
8-14L	-.22		10-32L	-.11
8-19L	-.19		10-70U	-.05
8-32L	-.15		11-70U	-.05
8-38L	-.14		12-70U	.03
8-44L	-.14		TIP-70C	.03
8-60L	-.12		12-70L	0
8-95L	.08		11-70L	-
9-0C	.28		10-70L	-.01
9-1.25U	.26		FIN-1	-.24
9-2.5U	.12		FIN-2	-.80
9-5U	.04		FIN-3	-.88
9-14U	-.09		FIN-4	-.59
9-19U	-.09		FIN-5	-.36
9-32U	-.12		FIN-6	-.23
9-44U	-.08		FIN-7	2.66
9-70U	-.03		FIN-8	-.80
9-80U	0		FIN-9	-.42
9-100C	.12		FIN-10	-.30
9-1.25L	.35		FIN-11	-.19
9-5L	.22		FIN-12	-.12
9-8L	.26		FIN-13	2.51
9-14L	.20		FIN-14	1.65
9-19L	.18		FIN-15	-.30
9-32L	.16		FIN-16	-.19
9-38L	.11		FIN-17	-.14
9-44L	.07		FIN-18	-.16
9-70L	.01		FIN-19	-.12
9-90L	.07		FIN-20	-.08
9-95L	.14		FIN-21	-.19
2S-60U	.20		FIN-22	-.15
2S-60L	.12		FIN-23	-.09
5S-60U	.14		FIN-24	.03
5S-60L	.09		FIN-25	.26
8S-60U	.09		FIN-26	.19
8S-60L	.08		FIN-27	.09
10-32U	.03		FIN-28	.08



TABLE 7. - PRESSURE COEFFICIENTS OVER THE TAIL FOR THE MODEL IN PITCH, CLEAN CONDITION;  $\beta, 0^\circ$ . (a)  $\delta_e, 8^\circ$ .

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$
1-0C	.42	.30	.31	3-1.25U	.32	.11	.07
1-1.25U	.43	.25	.19	3-8U	.01	.11	.20
1-2.5U	.24	.18	.13	3-14U	.06	.15	.17
1-5U	.20	.12	.06	3-19U	.08	.16	.22
1-8U	.12	.05	.02	3-32U	.12	.17	.20
1-14U	.07	.01	.03	3-60U	.10	.13	.14
1-19U	.01	.05	.09	3-70U	.04	.08	.08
1-32U	.05	.08	.13	3-95U	.03	.04	.03
1-70U	.16	.16	.17	3-1.25L	.21	.03	0
1-80U	.10	.08	.10	3-2.5L	.34	.14	0
1-90U	.08	.06	.07	3-5L	.38	.17	.09
1-95U	.03	.01	0	3-8L	.27	.12	.09
1-2.5L	.39	.19	.16	3-14L	.20	.14	.10
1-5L	.37	.22	.17	3-32L	.17	.14	.14
1-14L	.19	.16	.13	3-38L	.18	.16	.13
1-19L	.24	.16	.13	3-60L	.14	.14	.12
1-32L	.16	.09	.09	3-80L	.07	.05	.04
1-38L	.21	.13	.13	3-95L	.07	.05	.05
1-60L	.18	.16	.13	4-0C	.56	.59	.55
1-70L	.14	.13	.12	4-1.25U	.22	.08	.07
1-80L	.09	.06	.08	4-2.5U	.13	0	.14
2-1.25U	.33	.23	.24	4-14U	.08	.19	.24
2-2.5U	.20	.05	.08	4-19U	.09	.14	.22
2-5U	.06	.04	.10	4-32U	.10	.13	.21
2-32U	.08	.13	.16	4-38U	.10	.13	.15
2-38U	.15	.22	.25	4-60U	.14	.15	.16
2-44U	.01	.05	.09	4-70U	.01	.02	.05
2-70U	.09	.10	.13	4-90U	.01	0	0
2-80U	.05	.05	.07	4-95U	.04	.05	.05
2-95U	.05	.05	.05	4-100C	.12	.12	.14
2-100C	.09	.08	.08	4-2.5L	.29	.09	.03
2-1.25L	.37	.11	.04	4-5L	.29	.15	.04
2-2.5L	.39	.18	.07	4-8L	.22	.10	.04
2-5L	.40	.23	.11	4-14L	.18	.20	.17
2-14L	.27	.21	.12	4-19L	.22	.19	.17
2-32L	.17	.18	.11	4-32L	.21	.16	.09
2-38L	.18	.19	.17	4-38L	.19	.18	.14
2-44L	.22	.18	.04	4-44L	.22	.15	.12
2-70L	.08	.08	.07	4-60L	.12	.12	.13
2-95L	.05	.05	.04	4-80L	.04	.02	.02



TABLE 7. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
1-0C	.31	.42	.43	3-1.25U	-.20	.47	.76
1-1.25U	.24	.18	.24	3-8U	-.29	.29	.48
1-2.5U	.11	.13	.13	3-14U	-.28	.26	.43
1-5U	.07	.04	.02	3-19U	-.28	.33	.40
1-8U	-.01	.03	.05	3-32U	-.24	.26	.32
1-14U	-.04	.06	.11	3-60U	-.16	.17	.20
1-19U	-.12	.14	.19	3-70U	-.13	.13	.16
1-32U	-.16	.18	.23	3-95U	.04	.04	.04
1-70U	-.17	.14	.20	3-1.25L	.28	.41	.51
1-80U	-.12	.13	.15	3-2.5L	.12	.24	.33
1-90U	-.05	.08	.11	3-5L	-.03	.08	.16
1-95U	-.01	.01	.04	3-8L	-.03	.04	.12
1-2.5L	-.11	.11	.19	3-14L	-.06	.01	.04
1-5L	-.11	.11	.16	3-32L	-.12	.05	.04
1-14L	-.09	.05	.07	3-38L	-.13	.11	.08
1-19L	-.10	.05	.05	3-60L	-.13	.12	.11
1-32L	-.05	.03	.01	3-80L	-.04	.03	.04
1-38L	-.08	.08	.07	3-95L	.05	.05	.04
1-60L	-.12	.07	.08	4-0C	.61	.41	.09
1-70L	-.08	.06	.08	4-1.25U	.23	.55	.66
1-80L	-.05	.04	.05	4-2.5U	.33	.51	.58
2-1.25U	.11	.02	.11	4-14U	-.30	.46	.55
2-2.5U	.16	.27	.49	4-19U	-.21	.25	.41
2-5U	.18	.26	.43	4-32U	-.25	.28	.33
2-32U	.15	.17	.27	4-38U	-.22	.25	.31
2-38U	.21	.30	.35	4-60U	-.22	.24	.27
2-44U	.08	.10	.17	4-70U	-.08	.09	.12
2-70U	-.11	.11	.15	4-90U	0	0	.01
2-80U	-.08	.05	.09	4-95U	.05	.07	.05
2-95U	.05	.05	.03	4-100C	.10	.13	.11
2-100C	.05	.04	0	4-2.5L	.16	.28	.37
2-1.25L	.20	.33	.37	4-5L	.03	.14	.21
2-2.5L	.05	.13	.24	4-8L	.03	.11	.17
2-5L	-.05	.04	.11	4-14L	-.11	.03	.01
2-14L	-.09	.03	.01	4-19L	-.11	.05	.01
2-32L	-.12	.07	.05	4-32L	-.09	.04	.03
2-38L	-.13	.09	.08	4-38L	-.14	.11	.09
2-44L	-.13	.09	.08	4-44L	-.13	.09	.08
2-70L	-.04	.01	0	4-60L	-.11	.06	.08
2-95L	.03	.03	0	4-80L	-.01	0	.01



TABLE 7. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$
1-0C	.45	.49	.50	3-1.25U	- 1.01	1.23	- 1.45
<del>1-1.25U</del>	<del>.19</del>	<del>.23</del>	<del>.20</del>	3-8U	- .44	- .63	- .69
1-2.5U	.13	.12	.11	3-14U	- .48	- .51	- .55
1-5U	.03	.03	0	3-19U	- .34	- .47	- .49
1-8U	- .07	- .07	- .09	3-32U	- .26	- .35	- .36
1-14J	- .09	- .12	- .14	3-60U	- .15	- .19	- .20
1-19U	- .20	- .20	- .23	3-70U	- .15	- .09	- .09
1-32U	- .24	- .24	- .27	3-95U	- .02	- .03	0
<del>1-70U</del>	<del>.20</del>	<del>.20</del>	<del>.17</del>	3-1.25L	- .44	- .60	- .47
1-80U	- .16	- .15	- .16	3-2.5L	- .41	- .47	- .43
<del>1-90U</del>	<del>.11</del>	<del>.09</del>	<del>.11</del>	3-5L	- .20	- .31	- .32
1-95U	- .03	- .03	- .03	3-8L	- .14	- .24	- .26
1-2.5L	- .20	- .15	0	3-14L	- .07	- .15	- .18
1-5L	- .16	- .12	- .11	3-32L	- .01	- .03	- .05
1-14L	- .04	- .01	- .01	3-38L	- .04	- .01	- .01
1-19L	- .04	- .01	0	3-60L	- .06	- .05	- .04
1-32L	- .01	- .03	- .04	<del>3-80L</del>	<del>- .03</del>	<del>- .01</del>	<del>- .01</del>
1-38L	- .04	0	0	3-95L	- .04	- .04	- .01
1-60L	- .07	- .02	- .04	4-0C	- .32	- .73	- 1.19
1-70L	- .05	- .02	- .03	4-1.25U	- 1.11	- 1.27	- 1.53
1-80L	- .04	- .01	- .03	4-2.5U	- .89	- .99	- 1.19
2-1.25U	- .27	- .33	- .42	4-14U	- .59	- .63	- .69
2-2.5U	- .53	- .42	- .57	4-19U	- .45	- .48	- .54
2-5U	- .44	- .36	- .50	4-32U	- .36	- .36	- .41
2-32U	- .29	- .29	- .34	4-38U	- .32	- .33	- .36
<del>2-50U</del>	<del>.35</del>	<del>.27</del>	<del>.39</del>	4-60U	- .27	- .25	- .27
2-14U	- .14	- .14	- .22	4-70U	- .13	- .12	- .12
2-70U	- .12	- .17	- .22	4-90U	- .01	- .01	0
2-80U	- .07	- .07	- .12	4-95U	- .05	- .07	- .05
2-95U	- .01	0	- .01	4-100C	- .11	- .11	- .08
2-100C	0	0	- .03	4-2.5L	- .44	- .52	- .55
2-1.25L	.26	.32	.27	4-5L	- .29	- .36	- .41
2-2.5L	.20	.28	.24	4-8L	- .23	- .28	- .31
2-5L	.12	.19	.19	4-14L	- .07	- .10	- .16
2-14L	.05	.11	.14	4-19L	- .04	- .09	- .12
2-32L	- .01	- .04	- .05	4-32L	- .01	- .04	- .07
2-38L	- .02	- .01	- .03	4-38L	- .05	1.32	0
<del>2-44L</del>	<del>- .03</del>	<del>0</del>	<del>- .01</del>	4-44L	- .05	- .01	- .01
<del>2-70L</del>	<del>1.35</del>	<del>.04</del>	<del>- .04</del>	4-60L	- .05	- .03	- .03
2-95L	.01	.01	.01	4-80L	- 0	1.35	.01

TABLE 7. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha = 16$	$\alpha = 18$	ORIFICE	$\alpha = 16$	$\alpha = 18$
1-0C	.54	.68	3-1.25U	1.35	1.15
1-1.25U	.14	.15	3-8U	.65	.62
1-2.5U	.06	.06	3-14U	.52	.51
1-5U	.03	.06	3-19U	.48	.47
1-8U	.11	.13	3-32U	.35	.37
1-14J	.15	.16	3-60U	.20	.22
1-19U	.24	.25	3-70U	.11	.13
1-32U	.27	.26	3-95U	0	.01
1-70U	.21	.24	3-1.25L	.35	.31
1-80U	.17	.18	3-2.5L	.35	.35
1-95U	.11	.12	3-5L	.28	.22
1-95U	.03	.03	3-8L	.24	.18
1-2.5L	.08	.16	3-14L	.18	.10
1-5L	.08	.16	3-32L	.06	.01
1-14L	0	.07	3-38L	.03	.01
1-19L	.01	.06	3-60L	.01	.04
1-32L	.06	0	3-80L	0	.01
1-38L	0	.06	3-95L	.01	.03
1-60L	.03	.07	4-0C	1.14	.84
1-70L	.01	.06	4-1.25U	1.49	1.07
1-70L	.01	.04	4-2.5U	1.15	.88
1-80L	.01	.04	4-14U	.66	.60
2-1.25U	.51	.57	4-19U	.52	.47
2-2.5U	.61	.56	4-32U	.38	.37
2-5U	.49	.50	4-38U	.37	.38
2-32U	.34	.32	4-60U	.25	.29
2-38U	.39	.40	4-70U	.11	.13
2-44U	.24	.26	4-90U	0	.03
2-70U	.20	.19	4-95U	.04	.03
2-80U	.11	.12	4-100C	.08	.09
2-95U	0	.01	4-2.5L	.54	.37
2-100C	.03	0	4-5L	.38	.24
2-1.25L	.31	.31	4-8L	.30	.16
2-2.5L	.28	.22	4-14L	.14	.03
2-5L	.23	.15	4-19L	.10	.01
2-14L	.15	.07	4-32L	.06	0
2-32L	.07	0	4-38L	0	.06
2-38L	.06	.01	4-44L	0	.04
2-44L	.04	.01	4-60L	.03	.04
2-70L	.06	.04	4-80L	.01	0
2-95L	.01	.03			



TABLE 7. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha=2$	$\alpha=0$	$\alpha=2$	ORIFICE	$\alpha=2$	$\alpha=0$	$\alpha=2$
4-90L	.01	.03	.03	6-8L	.23	.12	.04
4-95L	.07	.07	.07	6-14L	.25	.17	.11
5-0C	.60	.71	.67	6-19L	.24	.17	.12
5-1.25U	.23	.01	.18	6-38L	.23	.19	.16
5-8U	.03	.13	.22	6-44L	.23	.19	.16
5-14U	.11	.17	.24	6-60L	.19	.16	.14
5-19U	.16	.23	.28	6-70L	.08	.07	.05
5-38U	.15	.17	.21	7-0C	.69	.69	.59
5-44U	.11	.15	.17	7-5U	.04	.19	.29
5-60U	.15	.16	.17	7-8U	.07	.16	.22
5-70U	.07	.09	.11	7-14U	.11	.19	.22
5-80U	.07	.07	.08	7-19U	.12	.19	.22
5-90U	0	0	0	7-38U	.17	.20	.24
5-95U	.03	.04	.03	7-60U	.13	.15	.16
5-1.25L	.24	.01	.17	7-90U	.01	0	0
5-2.5L	.28	.07	.07	7-95U	.05	.07	.07
5-5L	.32	.16	.07	7-1.25L	.16	.08	.24
5-8L	.25	.15	.05	7-2.5L	.25	.08	.08
5-14L	.24	.16	.09	7-5L	.29	.15	.03
5-19L	.27	.20	.14	7-8L	.27	.16	.08
5-38L	.24	.20	.16	7-14L	.23	.17	.12
5-44L	.21	.17	.14	7-19L	.24	.19	.14
5-60L	.21	.19	.16	7-32L	.21	.17	.14
5-70L	.07	.05	.04	7-44L	.19	.16	.14
5-90L	.03	.04	.04	7-60L	.15	.13	.12
5-95L	.08	.08	.07	7-70L	.09	.08	.08
6-0C	.59	.68	.66	7-90L	.03	.04	.04
6-5U	.04	.17	.29	7-95L	.09	.08	.08
6-14U	.11	.17	.25	8-0C	.68	.69	.58
6-19U	.04	.03	.03	8-1.25U	.17	.03	.24
6-32U	0	.04	.11	8-2.5U	0	.16	.33
6-44U	0	.04	.09	8-5U	.04	0	.28
6-60U	.13	.15	.16	8-8U	.08	.17	.25
6-70U	.13	.15	.14	8-14U	.11	.17	.24
6-80U	.05	.05	.07	8-19U	.13	.19	.22
6-90U	.03	.03	.01	8-60U	.04	.05	.07
6-100C	.15	.15	.14	8-80U	.04	.04	.04
6-1.25L	.17	.07	.24	8-90U	.01	.01	.01
6-2.5L	.31	.12	.03	8-95U	.13	.11	.11
6-5L	.31	.15	.04	8-100C	.16	.16	.14

TABLE 7. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha=4$	$\alpha=6$	$\alpha=8$	ORIFICE	$\alpha=4$	$\alpha=6$	$\alpha=8$
4-90L	.03	.03	.03	6-8L	.07	.14	.21
4-95L	.07	.05	.07	6-14L	-	.03	.09
5-0C	.57	.33	.04	6-19L	-	.05	.05
5-1.25U	.43	.70	.97	6-38L	-	.12	.08
5-8U	.30	.38	.47	6-44L	-	.12	.07
5-14U	.29	.36	.42	6-60L	-	.12	.05
5-19U	.32	.37	.42	6-70L	-	.03	0
5-38U	.24	.28	.30	7-0C	-	.36	.38
5-44U	.20	.22	.25	7-5U	-	.43	.67
5-60U	.18	.20	.21	7-8U	-	.33	.51
5-70U	.12	.14	.14	7-14U	-	.29	.41
5-80U	.08	.08	.08	7-19U	-	.28	.38
5-90U	0	0	0	7-38U	-	.26	.30
5-95U	.04	.04	.04	7-60U	-	.16	.18
5-1.25L	.33	.46	.54	7-90U	-	.01	.01
5-2.5L	.21	.33	.41	7-95U	-	.07	.08
5-5L	.05	.14	.24	7-1.25L	-	.41	.58
5-8L	.04	.12	.17	7-2.5L	-	.22	.42
5-14L	.03	.04	.11	7-5L	-	.09	.28
5-19L	.08	.03	.03	7-8L	-	.04	.18
5-38L	.12	1.22	.05	7-14L	-	.03	.09
5-44L	.11	.08	.05	7-19L	-	.07	.04
5-60L	.14	.12	.11	7-32L	-	.09	.03
5-70L	.03	.01	0	7-44L	-	.11	.05
5-90L	.04	.04	.05	7-60L	-	.11	.07
5-95L	.08	.08	.08	7-70L	-	.07	.04
6-0C	.53	.29	.03	7-90L	-	.04	.04
6-5U	.42	.55	.67	7-95L	-	.09	.08
6-14U	.30	.38	.45	8-0C	-	.36	.38
6-19U	.03	.03	.01	8-1.25U	-	.49	.99
6-32U	.14	.20	.24	8-2.5U	-	.53	.87
6-44U	.13	.17	.20	8-5U	-	.41	.62
6-60U	.17	.18	.20	8-8U	-	.34	.51
6-70U	.16	.16	.16	8-14U	-	.28	.39
6-80U	.07	.08	.07	8-19U	-	.25	.36
6-90U	0	0	.01	8-60U	-	.07	.09
6-100C	.13	.13	.12	8-80U	-	.03	.04
6-1.25L	.39	.50	.58	8-90U	-	.01	.03
6-2.5L	.18	.29	.38	8-95U	-	.09	.07
6-5L	.09	.18	.28	8-100C	-	.14	.14



TABLE 7. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha=10$	$\alpha=12$	$\alpha=14$	ORIFICE	$\alpha=10$	$\alpha=12$	$\alpha=14$
4-90L	.04	.04	.04	6-8L	.28	.32	.38
4-95L	.07	.05	.05	6-14L	.16	.19	.23
5-0C	- .42	- .88	- 1.42	6-19L	.12	.15	.18
5-1.25U	- 1.32	- 1.61	- 1.61	6-38L	- .01	.01	.04
5-8U	- .57	- .67	- .76	6-44L	- .03	- .01	0
5-14U	- .49	- .55	- .59	6-60L	- .05	- .05	.04
5-19U	- .46	- .40	- .57	6-70L	- .03	.03	.04
5-38U	- .32	- .26	- .36	7-0C	- .96	- 1.51	- 2.15
5-44U	- .26	- .29	- .30	7-5U	- .80	- .92	- 1.05
5-60U	- .21	- .21	- .22	7-8U	- .62	- .71	- .80
5-70U	- .14	- .15	- .15	7-14U	- .47	- .53	- .59
5-80U	- .07	- .08	- .07	7-19U	- .42	- .48	- .51
5-90U	.01	.01	.01	7-38U	- .32	- .35	- .35
5-95U	.05	.04	.05	7-60U	- .18	- .19	- .19
5-1.25L	.62	.64	.66	7-90U	.03	.01	.01
5-2.5L	.50	.55	.59	7-95U	.08	.07	.07
5-5L	.33	.39	.45	7-1.25L	.64	.65	.66
5-8L	.25	.29	.35	7-2.5L	.51	.55	.59
5-14L	.16	.19	.23	7-5L	.36	.40	.46
5-19L	.09	.12	.16	7-8L	.26	.31	.35
5-38L	- .01	.01	.04	7-14L	.14	.19	.23
5-44L	- .01	0	.03	7-19L	.11	.12	.16
5-60L	- .07	- .07	- .04	7-32L	.01	.04	.05
5-70L	.03	.03	.04	7-44L	- .01	- .01	.01
5-90L	.05	.05	.05	7-60L	- .04	- .04	.03
5-95L	.09	.07	.07	7-70L	- .03	- .03	.01
6-0C	- .49	- .96	- 1.53	7-90L	.05	.04	.04
6-5U	- .80	- .93	- 1.07	7-95L	.09	.08	.07
6-14U	- .49	- .56	- .62	8-0C	- .93	- 1.45	- 2.07
6-19U	- 0	- 0	- .01	8-1.25U	- 1.24	- 1.49	- 1.77
6-32U	- .25	- .23	- .32	8-2.5U	- 1.05	- 1.23	- 1.42
6-44U	- .21	- .19	- .26	8-5U	- .74	- .85	- .97
6-60U	- .20	- .21	- .20	8-8U	- .59	- .69	- .77
6-70U	- .16	- .16	- .16	8-14U	- .45	- .51	- .55
6-80U	- .05	- .07	- .07	8-19U	- .39	- .44	- .49
6-90U	.03	.03	.04	8-60U	- .08	- .08	- .09
6-100C	.12	.11	.09	8-80U	- .03	- .03	- .03
6-1.25L	.64	.67	.68	8-90U	.04	.03	.03
6-2.5L	.49	.53	.58	8-95U	- .04	- .04	- .04
6-5L	.36	.41	.46	8-100C	.14	.12	.12

TABLE 7. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha=16$	$\alpha=18$	ORIFICE	$\alpha=16$	$\alpha=18$
4-90L	.03	.03	6-8L	.33	.13
4-95L	.04	.04	6-14L	.19	.03
5-0C	- 1.19	-.22	6-19L	.13	0
5-1.25U	- 1.66	- 1.13	6-38L	- .01	-.09
5-8U	- .74	-.56	6-44L	- .03	-.10
5-14U	- .50	-.50	6-60L	- .05	-.10
5-19U	- .56	-.50	6-70L	- 0	-.03
5-38U	- .36	-.37	7-0C	- 1.77	-.99
5-44U	- .31	-.29	7-5U	- 1.03	-.85
5-60U	- .23	-.25	7-8U	- .79	-.68
5-70U	- .17	-.18	7-14U	- .60	-.54
5-80U	- .09	-.12	7-19U	- .53	-.50
5-90U	- 0	-.03	7-38U	- .37	-.38
5-95U	.04	0	7-60U	- .21	-.24
5-1.25L	.64	.44	7-90U	- 0	-.06
5-2.5L	.57	.34	7-95U	.06	0
5-5L	.40	.18	7-1.25L	.66	.44
5-8L	.30	.13	7-2.5L	.57	.34
5-14L	.19	.04	7-5L	.41	.19
5-19L	.11	-.01	7-8L	.30	.12
5-38L	.01	-.07	7-14L	.17	.03
5-44L	- 0	-.07	7-19L	.11	-.01
5-60L	- .07	-.10	7-32L	.01	-.07
5-70L	.01	-.01	7-44L	- .03	-.09
5-90L	.04	.01	7-60L	- .07	-.10
5-95L	.06	.04	7-79L	- .06	-.10
6-0C	- 1.17	-.40	7-90L	.01	-.03
6-5U	- 1.03	-.81	7-95L	.06	0
6-14U	- .61	-.56	8-0C	- 1.80	- 1.21
6-19U	- 0	-.01	8-1.25U	- 1.71	- 1.37
6-32U	- .39	-.40	8-2.5U	- 1.40	- 1.18
6-44U	- .31	-.32	8-5U	- .97	-.85
6-60U	- .23	-.25	8-8U	- .79	-.72
6-70U	- .17	-.21	8-14U	- .57	-.54
6-80U	- .07	-.12	8-19U	- .50	-.49
6-90U	.04	.03	8-60U	- .11	-.15
6-100C	.09	.04	8-80U	- .06	-.10
6-1.25L	.66	.44	8-90U	- .01	-.04
6-2.5L	.54	.28	8-95U	- .06	-.09
6-5L	.41	.18	8-100C	.10	.03



TABLE 7. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha = 2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = 2$	$\alpha = 0$	$\alpha = 2$	
8-1.25L	-	.16	.05	.21 11-32U	-	.11	.09	.11
8-2.5L	-	.21	.04	.14 12-32U	-	.09	.07	.08
8-5L	-	.23	.12	.01 TIP-32C	-	.08	.07	.08
8-8L	-	.24	.14	.05 11-32L	-	.11	.08	.07
8-14L	-	.21	.14	.08 10-32L	-	.12	.11	.09
8-19L	-	.20	.14	.11 10-70U	-	.07	.05	.04
8-32L	-	.17	.14	.12 11-70U	-	.05	.04	.04
8-38L	-	.16	.14	.12 12-70U	-	.05	.03	.04
8-44L	-	.16	.14	.13 TIP-70C	-	.03	.01	0
8-60L	-	.08	.07	.05 12-70L	-	.04	.03	.04
8-95L	-	.11	.11	.09 11-70L	-	.03	.03	.03
9-0C	-	.65	.69	.67 10-70L	-	.04	.04	.03
9-1.25U	-	.19	0	.19 FIN-1	-	.01	.01	.01
9-2.5U	-	.04	.12	.22 FIN-2	0	-	0	.01
9-5U	-	.05	.16	.27 FIN-3	-	.01	.03	.03
9-14U	-	.13	.18	.25 FIN-4	-	.05	.05	.07
9-19U	-	.15	.18	.23 FIN-5	-	.01	0	0
9-32U	-	.15	.17	.20 FIN-6	-	.01	0	0
9-44U	-	.11	.12	.13 FIN-7	-	.13	.14	.11
9-70U	-	.01	.01	0 FIN-8	-	.05	.05	.03
9-80U	0	-	0	0 FIN-9	-	.08	.08	.06
9-100C	-	.15	.14	.15 FIN-10	-	.05	.05	.05
9-1.25L	-	.17	.03	.19 FIN-11	-	.07	.07	.07
9-5L	-	.20	.11	.01 FIN-12	-	.04	.04	.04
9-8L	-	.23	.14	.05 FIN-13	-	.05	.05	.05
9-14L	-	.20	.14	.07 FIN-14	-	.13	.13	.13
9-19L	-	.19	.14	.08 FIN-15	-	.05	.05	.05
9-32L	-	.19	.16	.11 FIN-16	-	.04	.04	.03
9-38L	-	.15	.13	.11 FIN-17	0	-	0	0
9-44L	-	.09	.06	.07 FIN-18	-	.03	.03	.01
9-70L	-	.04	.04	.04 FIN-19	-	.05	.05	.04
9-90L	-	.07	.05	.07 FIN-20	-	.03	.03	.03
9-95L	-	.12	.12	.12 FIN-21	-	.11	.11	.11
25-60U	-	.16	.16	.17 FIN-22	-	.05	.05	.04
25-60L	-	.12	.12	.10 FIN-23	-	.04	.04	.03
55-60U	-	.07	.07	.07 FIN-24	-	.01	.01	0
55-60L	-	.12	.11	.11 FIN-25	-	.17	.17	.19
85-60U	-	.12	.13	.13 FIN-26	-	.12	.12	.12
85-60L	-	.11	.11	.09 FIN-27	-	.07	.07	.07
10-32U	-	.01	.01	.01 FIN-28	-	.07	.07	.07

TABLE 7. - CONTINUED  
(a) - Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
8-1.25L	.28	.48	.55	11-32U	0	.16	.15
8-2.5L	.19	.35	.43	12-32U	0	.19	.20
8-5L	.08	.19	.26	TIP-32C	0	.20	.29
8-8L	.02	.09	.16	11-32L	0	.08	.09
8-14L	0	.04	.08	10-32L	0	.08	.05
8-19L	0	0	.05	10-70U	0	.05	.07
8-32L	0	.05	.03	11-70U	0	.12	.21
8-38L	0	.07	.04	12-70U	0	.12	.18
8-44L	0	.08	.07	TIP-70C	0	.01	.01
8-60L	0	.05	.05	12-70L	0	.24	.38
8-95L	.09	.08	.08	11-70L	0	.09	.13
9-0C	.39	.28	.03	10-70L	0	.07	.08
9-1.25U	.43	.61	.76	FIN-1	0	0	.01
9-2.5U	.46	.63	.76	FIN-2	0	.01	.01
9-5U	.39	.48	.59	FIN-3	0	.01	.03
9-14U	.28	.33	.38	FIN-4	0	.07	.09
9-19U	.26	.31	.34	FIN-5	0	.01	.01
9-32U	.21	.24	.25	FIN-6	0	.01	.01
9-44U	.14	.15	.16	FIN-7	0	.08	.09
9-70U	0	0	0	FIN-8	0	.04	.03
9-80U	0	0	0	FIN-9	0	.05	.07
9-100C	.14	.13	.12	FIN-10	0	.05	.05
9-1.25L	.33	.44	.51	FIN-11	0	.07	.07
9-5L	.14	.20	.26	FIN-12	0	.03	.04
9-8L	.01	.08	.13	FIN-13	0	.02	.01
9-14L	0	0	.05	FIN-14	0	.09	.11
9-19L	0	.03	0	FIN-15	0	.04	.04
9-32L	0	.11	.08	FIN-16	0	.03	.01
9-38L	0	.08	.07	FIN-17	0	.01	.01
9-44L	0	.05	.02	FIN-18	0	.01	.01
9-70L	0	.05	.04	FIN-19	0	.05	.05
9-90L	0	.05	.04	FIN-20	0	.03	.03
9-95L	0	.12	.09	FIN-21	0	.11	.11
2S-60U	.13	.19	.14	FIN-22	0	.05	.05
2S-60L	.07	.08	.06	FIN-23	0	.04	.04
5S-60U	.04	.05	.04	FIN-24	0	.01	.01
5S-60L	.07	.08	.07	FIN-25	0	.19	.17
8S-60U	.11	.15	.11	FIN-26	0	.12	.12
8S-60L	.06	.07	.04	FIN-27	0	.07	.07
10-32U	0	.01	.01	FIN-28	0	.07	.07



TABLE 7. -- CONTINUED  
(a) -- Continued

ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$
8-1.25L	.61	.64	.64	11-32U	0	.30	.38
8-2.5L	.51	.55	.59	12-32U	0	.45	.55
8-5L	.35	.39	.43	TIP-32C	0	.50	.64
8-8L	.23	.21	.32	11-32L	0	.15	.18
8-14L	.13	.16	.20	10-32L	0	.07	.07
8-19L	.09	.12	.15	10-70U	0	.11	.14
8-32L	0	.03	.04	11-70U	0	.47	.54
8-38L	0	0	.01	12-70U	0	.31	.36
8-44L	.05	.03	.01	TIP-70C	0	.03	.04
8-60L	.05	.04	.04	12-70L	0	.66	.80
8-95L	.08	.07	.07	11-70L	0	.20	.24
9-0C	.47	.85	1.35	10-70L	0	.09	.11
9-1.25U	.79	1.23	1.46	FIN-1	0	.03	.04
9-2.5U	.95	.86	1.27	FIN-2	0	.01	.03
9-5U	.71	.81	.91	FIN-3	0	0	.01
9-14U	.43	.47	.51	FIN-4	0	.09	.12
9-19U	.37	.41	.43	FIN-5	0	.01	.03
9-32U	.27	.28	.30	FIN-6	0	.01	.03
9-44U	.17	.19	.19	FIN-7	0	.08	.03
9-70U	.01	.01	.03	FIN-8	0	.01	.01
9-80U	0	.01	.01	FIN-9	0	.05	.03
9-100C	.11	.09	.08	FIN-10	0	.04	.05
9-1.25L	.59	.61	.62	FIN-11	0	.07	.05
9-5L	.32	.38	.42	FIN-12	0	.02	.03
9-8L	.20	.24	.27	FIN-13	0	.03	.04
9-14L	.09	.12	.15	FIN-14	0	.09	.08
9-19L	.04	.07	.09	FIN-15	0	.03	.01
9-32L	.04	.05	.03	FIN-16	0	.01	0
9-38L	.05	.04	.03	FIN-17	0	.01	.01
9-44L	.01	.01	.01	FIN-18	0	0	0
9-70L	.05	.05	.05	FIN-19	0	.04	.04
9-90L	.04	.04	.03	FIN-20	0	.01	.01
9-95L	.12	.11	.11	FIN-21	0	.09	.09
2S-60U	.19	.19	.19	FIN-22	0	.05	.04
2S-60L	.07	.05	.05	FIN-23	0	.04	.02
5S-60U	.04	.05	.04	FIN-24	0	.03	.03
5S-60L	.05	.04	.03	FIN-25	0	.17	.12
8S-60U	.12	.16	.15	FIN-26	0	.12	.08
8S-60L	.04	.04	.03	FIN-27	0	.07	.05
10-32U	.02	.03	.04	FIN-28	0	.05	.05

TABLE 7. - CONTINUED  
(a) - Concluded

ORIFICE	$\alpha = 16$	$\alpha = 18$	ORIFICE	$\alpha = 16$	$\alpha = 18$
8-1.25L	.64	.42	11-32U	-.41	-.43
8-2.5L	.57	.34	12-32U	-.60	-.58
8-5L	.41	.21	TIP-32C	-.66	-.57
8-8L	.29	.12	11-32L	-.16	-.16
8-14L	.17	.03	10-32L	-.09	-.12
8-19L	.11	.01	10-70U	-.16	-.21
8-32L	0	.07	11-70U	-.50	-.39
8-38L	.03	.09	12-70U	-.40	-.43
8-44L	.06	.10	TIP-70C	.04	.03
8-60L	.07	.10	12-70L	-.76	-.54
8-95L	.04	0	11-70L	-.24	-.21
9-0C	1.24	.90	10-70L	-.13	-.15
9-1.25U	1.46	1.25	FIN-1	.03	0
9-2.5U	1.29	1.13	FIN-2	.03	.06
9-5U	.94	.87	FIN-3	.01	.01
9-14U	.54	.55	FIN-4	.14	.18
9-19U	.46	.46	FIN-5	.04	.07
9-32U	.33	.36	FIN-6	.04	.07
9-44U	.21	.25	FIN-7	.03	.01
9-70U	.06	.13	FIN-8	0	0
9-80U	.04	.10	FIN-9	.03	.04
9-100C	.07	0	FIN-10	.07	.09
9-1.25L	.64	.42	FIN-11	.07	.10
9-5L	.40	.24	FIN-12	.06	.07
9-8L	.26	.10	FIN-13	.03	.03
9-14L	.13	.01	FIN-14	.10	.12
9-19L	.06	.03	FIN-15	.03	.04
9-32L	.07	.12	FIN-16	0	.01
9-38L	.06	.12	FIN-17	0	.03
9-44L	.04	.09	FIN-18	.01	.03
9-70L	.09	.13	FIN-19	.06	.07
9-90L	0	.04	FIN-20	.03	.06
9-95L	.07	0	FIN-21	.10	.12
2S-60U	.21	.22	FIN-22	.06	.07
2S-60L	.07	.10	FIN-23	.04	.06
5S-60U	.07	.10	FIN-24	.04	.03
5S-60L	.06	.07	FIN-25	.17	.18
8S-60U	.16	.19	FIN-26	.13	.13
8S-60L	.06	.07	FIN-27	.07	.09
10-32U	.04	.03	FIN-28	.07	.09



TABLE 7. - CONTINUED  
(b)  $\delta_e, -8^\circ$ .

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$
1-0C	.37	.36	.38	3-1.25U	.39	.25	.06
<del>1-1.25U</del>	.49	.40	.32	3-8U	.04	.03	.12
1-2.5U	.36	.30	.23	3-14U	.04	.09	.16
1-5U	.24	.18	.14	3-19U	.07	.10	.16
1-8U	.16	.12	.08	3-32U	.08	.12	.16
1-14J	.11	.06	.04	3-60U	.08	.09	.10
1-19U	.03	0	.03	3-70U	.03	.04	.06
<del>1-32U</del>	.01	.03	.06	3-95U	.04	.05	.05
<del>1-70U</del>	.14	.14	.14	3-1.25L	.39	.14	.05
1-80U	.07	.06	.06	3-2.5L	.43	.23	.08
<del>1-90U</del>	.04	.03	.03	3-5L	.43	.29	.16
1-95U	.05	.05	.05	3-8L	.32	.21	.12
1-2.5L	.46	.31	.21	3-14L	.29	.21	.14
1-5L	.42	.29	.21	3-32L	.24	.18	.16
1-14L	.29	.21	.16	3-38L	.25	.21	.17
1-19L	.26	.19	.16	3-60L	.20	.17	.16
1-32L	.18	.13	.09	<del>3-80L</del>	.07	.04	.04
1-38L	.22	.17	.14	3-95L	.07	.08	.08
1-60L	.18	.14	.13	4-0C	.50	.64	.69
1-70L	.14	.12	.10	4-1.25U	.37	.21	.03
1-80L	.08	.06	.05	4-2.5U	.24	.10	.05
2-1.25U	.16	.06	.03	4-14U	.08	.12	.26
2-2.5U	.26	.16	.09	4-19U	.07	.12	.17
2-5U	.13	.05	.05	4-32U	.09	.13	.17
2-32U	.04	.09	.09	4-38U	.16	.14	.13
<del>2-38U</del>	.14	.17	.19	4-60U	.16	.17	.18
2-44U	.12	.08	.08	4-70U	0	.01	.03
2-70U	.04	.05	.06	4-90U	.01	.03	.01
2-80U	.03	.03	.03	4-95U	.07	.08	.06
2-95U	.07	.06	.10	4-100C	.14	.16	.03
2-100C	.11	.10	.10	4-2.5L	.39	.19	.03
2-1.25L	.47	.23	.04	4-5L	.37	.22	.10
2-2.5L	.47	.29	.13	4-8L	.29	.17	.08
2-5L	.46	.31	.21	4-14L	.36	.27	.18
2-14L	.30	.23	.17	4-19L	.32	.23	.18
2-32L	.25	.19	.16	4-32L	.22	.17	.13
2-38L	.25	.19	.17	4-38L	.26	.22	.18
<del>2-44L</del>	.24	.19	.17	4-44L	.24	.18	.16
2-70L	.11	.08	.06	4-60L	.17	.14	.12
2-95L	.07	.06	.06	4-80L	.04	.03	.01

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TABLE 7. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
1-0C	.39	.39	.39	3-1.25U	.14	.35	.57
1-1.25U	.26	.26	.29	3-8U	.22	.30	.39
1-2.5U	.18	.17	.18	3-14U	.22	.27	.34
1-5U	.10	.08	.08	3-19U	.22	.27	.32
1-8U	.04	.01	0	3-32U	.18	.22	.25
1-14J	.01	.03	.04	3-60U	.13	.14	.16
1-19U	.06	.09	.12	3-70U	.08	.10	.10
1-32U	.09	.13	.14	3-95U	.05	.05	.05
1-70U	.14	.14	.16	3-1.25L	.22	.35	.44
1-80U	.06	.08	.09	3-2.5L	.08	.19	.30
1-90U	.03	.04	.05	3-5L	.05	.04	.14
1-95U	.04	.03	.01	3-8L	.05	.03	.10
1-2.5L	.14	.14	.18	3-8L	.09	.03	.03
1-5L	.14	.14	.14	3-14L	.12	.08	.04
1-14L	.09	.06	.05	3-32L	.14	.10	.06
1-14L	.10	.06	.04	3-38L	.13	.12	.09
1-19L	.06	.03	.01	3-60L	.03	.03	.01
1-32L	.10	.08	.05	3-80L	.08	.06	.06
1-38L	.10	.09	.06	3-95L	.66	.49	.25
1-60L	.09	.08	.05	4-0C	.19	.42	.66
1-70L	.05	.04	.03	4-1.25U	.22	.40	.58
1-80L	.06	.01	.09	4-2.5U	.34	.40	.47
2-1.25U	.13	.26	.38	4-14U	.22	.29	.34
2-2.5U	.17	.26	.34	4-19U	.19	.23	.27
2-5U	.14	.17	.19	4-32U	.18	.21	.25
2-32U	.22	.26	.27	4-38U	.19	.21	.22
2-38U	.08	.09	.12	4-60U	.05	.06	.09
2-44U	.08	.09	.09	4-70U	.01	.01	.01
2-70U	.04	.04	.04	4-90U	.06	.08	.06
2-80U	.08	.06	.05	4-95U	.14	.14	.13
2-95U	.09	.06	.04	4-100C	.12	.23	.32
2-100C	.16	.29	.36	4-2.5L	.01	.12	.19
2-1.25L	.03	.13	.22	4-5L	.01	.08	.16
2-2.5L	.08	.01	.09	4-8L	.12	.05	.01
2-5L	.10	.04	.01	4-14L	.12	.06	.01
2-14L	.12	.08	.04	4-19L	.09	.05	.01
2-32L	.13	.09	.06	4-32L	.14	.12	.08
2-38L	.13	.21	.06	4-38L	.13	.10	.06
2-44L	.04	.01	.01	4-44L	.10	.08	.06
2-70L	.05	.04	.04	4-60L	.01	.01	0
2-95L				4-80L			



TABLE 7. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = .14$
1-0C	.45	.47	.47	3-1.25U	.83	1.07	1.27
1-1.25U	.27	.26	.24	3-8U	.47	.54	.61
1-2.5U	.18	.17	.15	3-14U	.40	.45	.49
1-5U	.06	.07	.04	3-19U	.36	.41	.43
1-8U	.01	.01	.04	3-32U	.27	.29	.31
1-14J	.06	.07	.09	3-60U	.16	.16	.18
1-19U	.14	.14	.16	3-70U	.10	.07	.08
1-32U	.17	.17	.20	3-95U	.05	.04	.01
1-70U	.16	.16	.18	3-1.25L	.55	.58	.47
1-80U	.09	.09	.12	3-2.5L	.39	.45	.42
1-95U	.05	.05	.07	3-5L	.23	.28	.30
1-95U	.01	.01	0	3-8L	.18	.22	.24
1-2.5L	.18	.16	.16	3-14L	.09	.13	.16
1-5L	.14	.13	.14	3-32L	0	.03	.04
1-14L	.04	.42	.03	3-38L	.04	.01	.01
1-19L	.03	.01	.01	3-60L	.06	.05	.04
1-32L	.03	.04	.04	3-80L	.01	0	0
1-38L	.03	.13	0	3-95L	.06	.05	.03
1-60L	.05	.03	.03	4-0C	.09	.47	.91
1-70L	.04	.03	.03	4-1.25U	.92	1.13	1.38
1-80L	.01	.01	.01	4-2.5U	.79	.86	1.07
2-1.25U	.18	.26	.34	4-14U	.52	.55	.64
2-2.5U	.42	.43	.46	4-19U	.39	.42	.49
2-5U	.35	.38	.42	4-32U	.30	.32	.35
2-32U	.22	.24	.28	4-38U	.27	.29	.32
2-38U	.27	.29	.34	4-60U	.22	.22	.24
2-44U	.13	.14	.18	4-70U	.10	.11	.11
2-70U	.10	.13	.16	4-90U	.01	.03	.01
2-80U	.05	.07	.09	4-95U	.08	.08	.05
2-95U	.04	.04	.01	4-100C	.12	.12	.09
2-100C	.04	.03	0	4-2.5L	.43	.49	.54
2-1.25L	.31	.30	.26	4-5L	.27	.33	.38
2-2.5L	.25	.25	.23	4-8L	.21	.25	.30
2-5L	.16	.17	.18	4-14L	.06	.11	.15
2-14L	.06	.11	.12	4-19L	.04	.08	.11
2-32L	0	.03	.05	4-32L	.01	.05	.07
2-38L	.03	0	.03	4-38L	.04	.01	.01
2-44L	.03	0	.01	4-44L	.04	.01	.01
2-70L	.04	.04	.04	4-60L	.04	.03	.03
2-95L	.04	.04	.03	4-80L	.01	.01	.01

TABLE 7.- CONTINUED  
(b) - Continued

ORIFICE	$\alpha = 16$	$\alpha = 18$	ORIFICE	$\alpha = 16$	$\alpha = 18$
1-0C	.52	.66	3-1.25U	1.21	.97
1-1.25U	.20	.21	3-8U	.58	.68
1-2.5U	.11	.10	3-14U	.46	.60
1-5U	.01	0	3-19U	.42	.41
1-8U	.07	.07	3-32U	.31	.31
1-14J	.10	.12	3-60U	.17	.19
1-19U	.18	.19	3-70U	.08	.10
1-32U	.21	.21	3-95U	.01	.03
1-70U	.17	.19	3-1.25L	.37	.44
1-80U	.11	.12	3-2.5L	.35	.34
1-90U	.07	.07	3-5L	.27	.21
1-95U	.01	.01	3-8L	.24	.16
1-2.5L	.10	.18	3-14L	.17	.09
1-5L	.08	.18	3-32L	.06	0
1-14L	0	.07	3-38L	.03	.01
1-19L	.01	.06	3-60L	.01	.04
1-32L	.06	0	3-80L	0	0
1-38L	0	.06	3-95L	.03	.04
1-60L	.03	.07	4-0C	.86	.19
1-70L	.01	.06	4-1.25U	1.34	.93
1-80L	0	.03	4-2.5U	1.04	.76
2-1.25U	.42	.47	4-14U	.61	.54
2-2.5U	.52	.46	4-19U	.46	.41
2-5U	.44	.41	4-32U	.35	.32
2-32U	.28	.26	4-38U	.32	.34
2-38U	.34	.32	4-60U	.23	.25
2-44U	.20	.22	4-70U	.08	.10
2-70U	.15	.15	4-90U	0	.01
2-80U	.08	.09	4-95U	.06	.04
2-95U	.01	.03	4-100C	.08	.09
2-100C	0	.03	4-2.5L	.51	.34
2-1.25L	.30	.29	4-5L	.37	.21
2-2.5L	.27	.21	4-8L	.27	.15
2-5L	.21	.13	4-14L	.13	.01
2-14L	.15	.07	4-19L	.10	0
2-32L	.07	0	4-32L	.06	0
2-38L	.04	0	4-38L	.01	.06
2-44L	0	.01	4-44L	.01	.04
2-70L	.06	.04	4-60L	.03	.04
2-95L	.04	.04	4-80L	0	0



TABLE 7. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha=2$	$\alpha=0$	$\alpha=2$	ORIFICE	$\alpha=2$	$\alpha=0$	$\alpha=2$
4-90L	.04	.04	.04	6-8L	.25	.14	.04
4-95L	.08	.08	.08	6-14L	.26	.18	.12
5-0C	.54	.66	.68	6-19L	.24	.17	.12
5-1.25U	.32	.13	.08	6-38L	.22	.18	.14
5-8U	.03	.06	.17	6-44L	.21	.18	.16
5-14U	.04	.12	.18	6-60L	.17	.16	.13
5-19U	.09	.16	.22	6-70L	.07	.05	.04
5-38U	.09	.13	.17	7-0C	.66	.70	.64
5-44U	.07	.10	.13	7-5U	.01	.12	.23
5-60U	.11	.13	.14	7-8U	.01	.10	.19
5-70U	.04	.05	.08	7-14U	.07	.13	.19
5-80U	.04	.04	.05	7-19U	.08	.14	.19
5-90U	.03	.01	.01	7-38U	.13	.16	.19
5-95U	.04	.04	.04	7-60U	.09	.12	.13
5-1.25L	.33	.09	.12	7-90U	.0	.01	.01
5-2.5L	.33	.13	.03	7-95U	.06	.06	.08
5-5L	.36	.21	.09	7-1.25L	.24	.01	.19
5-8L	.28	.17	.06	7-2.5L	.24	.12	.04
5-14L	.25	.17	.10	7-5L	.32	.18	.05
5-19L	.26	.21	.14	7-8L	.29	.17	.09
5-38L	.24	.19	.16	7-14L	.24	.16	.12
5-44L	.20	.17	.14	7-19L	.25	.18	.13
5-60L	.20	.17	.16	7-32L	.21	.17	.13
5-70L	.07	.04	.03	7-44L	.18	.14	.13
5-90L	.04	.04	.04	7-60L	.14	.13	.10
5-95L	.09	.09	.09	7-70L	.09	.08	.06
6-0C	.53	.65	.66	7-90L	.05	.05	.04
6-5U	.04	.09	.22	7-95L	.11	.10	.09
6-14U	.07	.13	.19	8-0C	.66	.69	.62
6-19U	.03	.03	.03	8-1.25U	.24	.04	.16
6-32U	.22	.17	.17	8-2.5U	.07	.09	.26
6-44U	.17	.14	.14	8-5U	.01	.12	.22
6-60U	.09	.12	.13	8-8U	.03	.13	.21
6-70U	.11	.12	.12	8-14U	.08	.13	.19
6-80U	.03	.04	.04	8-19U	.09	.14	.19
6-90U	.03	.01	.01	8-60U	.04	.03	.04
6-100C	.16	.14	.14	8-80U	.03	.03	.03
6-1.25L	.26	.18	.18	8-90U	.03	.03	.03
6-2.5L	.36	.17	.0	8-95U	.11	.09	.09
6-5L	.34	.18	.06	8-100C	.17	.17	.17

TABLE 7. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha=4$	$\alpha=6$	$\alpha=8$	ORIFICE	$\alpha=4$	$\alpha=6$	$\alpha=8$
4-90L	.04	.04	.04	6-8L	.03	.13	.19
4-95L	.08	.06	.06	6-14L	-	.04	.08
5-0C	.61	.43	.17	6-19L	-	.06	.05
5-1.25U	-	.30	.56	6-38L	-	.10	.05
5-8U	-	.26	.32	6-44L	-	.11	.06
5-14U	-	.23	.30	6-60L	-	.10	.08
5-19U	-	.26	.32	6-70L	-	.02	.01
5-38U	-	.19	.23	7-0C	-	.41	.17
5-44U	-	.16	.19	7-5U	-	.29	.48
5-60U	-	.16	.17	7-8U	-	.27	.36
5-70U	-	.09	.10	7-14U	-	.25	.31
5-80U	-	.05	.05	7-19U	-	.23	.29
5-90U	.01	.01	.01	7-38U	-	.22	.26
5-95U	.05	.05	.05	7-60U	-	.14	.16
5-1.25L	.27	.42	.52	7-90U	-	.01	.01
5-2.5L	.16	.29	.39	7-95U	-	.08	.08
5-5L	.01	.11	.21	7-1.25L	-	.34	.47
5-8L	.01	.10	.16	7-2.5L	-	.18	.30
5-14L	-	.04	.09	7-5L	-	.05	.17
5-19L	-	.09	.04	7-8L	-	.0	.09
5-38L	-	.13	.09	7-14L	-	.05	.03
5-44L	-	.12	.09	7-19L	-	.09	.03
5-60L	-	.13	.12	7-32L	-	.10	.06
5-70L	-	.01	0	7-44L	-	.10	.08
5-90L	.05	.05	.05	7-60L	-	.09	.08
5-95L	.08	.08	.08	7-70L	-	.06	.05
6-0C	.60	.39	.09	7-90L	-	.05	.05
6-5U	-	.35	.47	7-95L	-	.09	.09
6-14U	-	.27	.32	8-0C	-	.45	.16
6-19U	-	.01	.01	8-1.25U	-	.38	.64
6-32U	-	.14	.19	8-2.5U	-	.43	.64
6-44U	-	.16	.14	8-5U	-	.34	.44
6-60U	-	.16	.16	8-8U	-	.30	.38
6-70U	-	.13	.13	8-14U	-	.23	.30
6-80U	-	.05	.05	8-19U	-	.22	.27
6-90U	-	0	.01	8-60U	-	.04	.05
6-100C	.14	.11	.13	8-80U	-	.03	.03
6-1.25L	.34	.45	.56	8-90U	-	.04	.04
6-2.5L	.13	.26	.36	8-95U	-	.08	.06
6-5L	.03	.16	.25	8-100C	-	.16	.14



TABLE 7. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha=1.0$	$\alpha=1.2$	$\alpha=1.4$	ORIFICE	$\alpha=1.0$	$\alpha=1.2$	$\alpha=1.4$
4-90L	.05	.04	.04	6-8L	.25	.30	.36
4-95L	.05	.07	.07	6-14L	.13	.17	.36
5-0C	- .19	- .61	- 1.13	6-19L	.09	.13	.17
5-1.25U	- 1.12	- 1.46	- 1.55	6-38L	- .03	- 0	.03
5-8U	- .51	- .59	- .68	6-44L	- .04	- .03	0
5-14U	- .43	- .49	- .55	6-60L	- .06	0	.04
5-19U	- .42	- .47	- .51	6-70L	- .01	- 1.28	.04
5-38U	- .29	- .30	- .33	7-0C	- .71	0	1.87
5-44U	- .23	- .25	- .27	7-5U	- .73	- .84	.97
5-60U	- .19	- .20	- .20	7-8U	- .56	- .64	.73
5-70U	- .13	- .13	- .13	7-14U	- .43	- .49	.55
5-80U	- .06	- .07	- .07	7-19U	- .39	- .43	.48
5-90U	.01	.01	.03	7-38U	- .30	- .32	.33
5-95U	.05	.05	.05	7-60U	- .17	- .18	.17
5-1.25L	.58	.63	.65	7-90U	.03	.03	.03
5-2.5L	.47	.53	.57	7-95U	.08	.08	.08
5-5L	.29	.36	.41	7-1.25L	.61	.64	.65
5-8L	.22	.26	.32	7-2.5L	.47	.53	.59
5-14L	.13	.17	.23	7-5L	.32	.38	.44
5-19L	.06	.11	.15	7-8L	.23	.28	.33
5-38L	- .03	0	.04	7-14L	.12	.17	.23
5-44L	- .03	0	.03	7-19L	.08	.11	.16
5-60L	- .08	- .07	- .04	7-32L	- 0	.03	.05
5-70L	.01	.03	.04	7-44L	- .02	- .01	.01
5-90L	.05	.05	.05	7-60L	- .05	- .04	.03
5-95L	.08	.08	.08	7-70L	- .03	- .03	.01
6-0C	- .29	- .71	- 1.25	7-90L	- .05	- .05	.04
6-5U	- .73	- .84	- .97	7-95L	- .08	- .08	.08
6-14U	- .45	- .51	- .57	8-0C	- .71	- 1.20	- 1.83
6-19U	- 0	0	.01	8-1.25U	- 1.12	- 1.36	- 1.64
6-32U	- .25	- .26	- .31	8-2.5U	- .96	- 1.13	- 1.33
6-44U	- .21	- .22	- .24	8-5U	- .68	- .79	- .91
6-60U	- .18	- .20	- .19	8-8U	- .55	- .63	- .72
6-70U	- .14	- .14	- .15	8-14U	- .42	- .46	- .52
6-80U	- .05	- .07	- .05	8-19U	- .36	- .41	- .45
6-90U	.03	.03	.04	8-60U	- .05	- .07	- .07
6-100C	.12	.12	.11	8-80U	- .03	- .03	- .03
6-1.25L	.61	.64	.67	8-90U	.04	.04	.04
6-2.5L	.44	.50	.56	8-95U	- .05	- .04	- .03
6-5L	.32	.38	.44	8-100C	.13	.13	.12

TABLE 7. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha=16$	$\alpha=18$	ORIFICE	$\alpha=16$	$\alpha=18$
4-90L	.03	.03	6-8L	.30	.12
4-95L	.04	.04	6-14L	.15	.01
5-0C	- .80 -	.06	6-19L	.11 -	.01
5-1.25U	- 1.56 -	.99	6-38L	- .03 -	.09
5-8U	- .65 -	.51	6-44L	- .04 -	.10
5-14U	- .54 -	.46	6-60L	- .07 -	.10
5-19U	- .51 -	.46	6-70L	- 0 -	.03
5-38U	- .34 -	.32	7-0C	- 1.42 -	.81
5-44U	- .28 -	.28	7-5U	- .94 -	.79
5-60U	- .21 -	.24	7-8U	- .72 -	.63
5-70U	- .14 -	.16	7-14U	- .55 -	.50
5-80U	- .07 -	.10	7-19U	- .49 -	.46
5-90U	- 0 -	.03	7-38U	- .35 -	.35
5-95U	.04 -	0	7-60U	- .20 -	.22
5-1.25L	.62	.43	7-90U	- 0 -	.04
5-2.5L	.52	.31	7-95U	.06 -	0
5-5L	.37	.16	7-1.25L	.65	.41
5-8L	.27	.12	7-2.5L	.54	.32
5-14L	.15	.03	7-5L	.38	.18
5-19L	.10 -	.01	7-8L	.27	.10
5-38L	- .01 -	.07	7-14L	.15	.01
5-44L	- .01 -	.06	7-19L	.08 -	.01
5-60L	- .07 -	.10	7-32L	- -	.07
5-70L	.01 -	.01	7-44L	- .04 -	.09
5-90L	.04	.01	7-60L	- .07 -	.10
5-95L	.06	.04	7-70L	- .07 -	.10
6-0C	- .85 -	.26	7-90L	.01 -	.01
6-5U	- .93 -	.74	7-95L	.06	.01
6-14U	- .56 -	.53	8-0C	- 1.52 -	1.06
6-19U	- 0 -	.01	8-1.25U	- 1.58 -	1.28
6-32U	- .37 -	.38	8-2.5U	- 1.31 -	1.10
6-44U	- .28 -	.32	8-5U	- .92 -	.81
6-60U	- .21 -	.24	8-8U	- .73 -	.68
6-70U	- .17 -	.19	8-14U	- .54 -	.51
6-80U	- .07 -	.10	8-19U	- .48 -	.47
6-90U	.03	.01	8-60U	- .10 -	.12
6-100C	.08	.06	8-80U	- .04 -	.10
6-1.25L	.65	.43	8-90U	.01 -	.04
6-2.5L	.51	.26	8-95U	- .06 -	.09
6-5L	.38	.16	8-100C	.10	.04



TABLE 7. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$
8-1.25L	- .22	0	.18	11-32U	- .09	.08	.09
8-2.5L	- .25	.07	.08	12-32U	- .09	.05	.07
8-5L	- .26	.14	.04	TIP-32C	- .08	.05	.07
8-8L	- .26	.16	.07	11-32L	- .09	.08	.07
8-14L	- .21	.16	.09	10-32L	- .12	.11	.09
8-19L	- .21	.16	.11	10-70U	- .07	.05	.04
8-32L	- .17	.14	.12	11-70U	- .07	.04	.03
8-38L	- .16	.14	.12	12-70U	- .07	.01	.03
8-44L	- .16	.14	.12	TIP-70C	- .03	.01	.01
8-60L	- .07	.07	.05	12-70L	- .05	.01	.04
8-95L	.11	.11	.11	11-70L	- .01	.01	.03
9-0C	.62	.68	.67	10-70L	- .03	.03	.04
9-1.25U	.24	.07	.13	FIN-1	- .01	.01	.01
9-2.5U	.08	.07	.22	FIN-2	0	.01	.01
9-5U	- .01	.12	.22	FIN-3	.01	0	.01
9-14U	- .11	.16	.21	FIN-4	- .05	.07	.07
9-19U	- .12	.16	.20	FIN-5	0	0	.01
9-32U	- .13	.16	.17	FIN-6	0	0	.01
9-44U	- .09	.11	.11	FIN-7	- .17	.16	.14
9-70U	- .03	.01	0	FIN-8	- .05	.05	.05
9-80U	.01	.01	.01	FIN-9	- .08	.08	.08
9-100C	.16	.16	.16	FIN-10	- .05	.05	.05
9-1.25L	- .22	.01	.14	FIN-11	- .05	.07	.07
9-5L	- .21	.12	.01	FIN-12	- .04	.04	.04
9-8L	- .25	.16	.08	FIN-13	- .07	.05	.05
9-14L	- .21	.16	.11	FIN-14	- .14	.14	.14
9-19L	- .18	.14	.11	FIN-15	- .05	.07	.07
9-32L	- .18	.17	.14	FIN-16	- .04	.04	.04
9-38L	- .14	.12	.11	FIN-17	- .01	.01	0
9-44L	- .09	.08	.07	FIN-18	- .01	.01	.01
9-70L	- .03	.04	.04	FIN-19	- .05	.04	.05
9-90L	.08	.07	.07	FIN-20	- .03	.12	.03
9-95L	.12	.12	.20	FIN-21	- .11	.12	.12
2S-60U	- .12	.13	.14	FIN-22	- .05	.07	.05
2S-60L	- .11	.11	.09	FIN-23	- .04	.05	.04
5S-60U	- .07	.07	.05	FIN-24	- .03	.01	0
5S-60L	- .11	.11	.09	FIN-25	- .17	.18	.18
8S-60U	- .11	.11	.12	FIN-26	- .12	.12	.12
8S-60L	- .11	.09	.08	FIN-27	- .07	.07	.07
10-32U	- .01	.01	.01	FIN-28	- .07	.07	.05

TABLE 7. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
8-1.25L	.32	.45	.53	11-32U	0	.13	.16
8-2.5L	.20	.30	.42	12-32U	0	.14	.23
8-5L	.07	.16	.25	TIP-32C	0	.17	.25
8-8L	0	.08	.14	11-32L	0	.07	.08
8-14L	.03	.03	.06	10-32L	0	.07	.06
8-19L	.07	0	.04	10-70U	0	.05	.05
8-32L	.08	.05	.01	11-70U	0	.08	.17
8-38L	.09	.07	.04	12-70U	0	.09	.14
8-44L	.11	.08	.06	TIP-70C	0	.01	.01
8-60L	.05	.05	.05	12-70L	0	.18	.32
8-95L	.09	.09	.09	11-70L	0	.08	.12
9-0C	.58	.37	.06	10-70L	0	.05	.06
9-1.25U	.33	.57	.69	FIN-1	0	0	.01
9-2.5U	.38	.55	.70	FIN-2	0	.01	.03
9-5U	.34	.43	.53	FIN-3	0	.01	.03
9-14U	.28	.29	.35	FIN-4	0	.09	.09
9-19U	.24	.28	.31	FIN-5	0	.01	.01
9-32U	.20	.21	.23	FIN-6	0	.01	.01
9-44U	.12	.13	.14	FIN-7	0	.12	.10
9-70U	0	.01	.01	FIN-8	0	.04	.03
9-80U	.01	.01	.01	FIN-9	0	.07	.06
9-100C	.14	.14	.12	FIN-10	0	.05	.05
9-1.25L	.28	.41	.49	FIN-11	0	.07	.06
9-5L	.11	.18	.25	FIN-12	0	.04	.04
9-8L	.01	.07	.12	FIN-13	0	.04	.03
9-14L	.05	0	.04	FIN-14	0	.13	.12
9-19L	.07	.03	.01	FIN-15	0	.05	.04
9-32L	.12	.11	.08	FIN-16	0	.03	.01
9-38L	.09	.08	.06	FIN-17	0	0	.01
9-44L	.05	.04	.03	FIN-18	0	.01	.01
9-70L	.04	.04	.04	FIN-19	0	.05	.05
9-90L	.07	.07	.05	FIN-20	0	.03	.03
9-95L	.13	.13	.12	FIN-21	0	.11	.10
2S-60U	.14	.14	.16	FIN-22	0	.07	.05
2S-60L	.08	.08	.06	FIN-23	0	.04	.04
5S-60U	.05	.05	.04	FIN-24	0	.01	.01
5S-60L	.08	.07	.05	FIN-25	0	.18	.18
8S-60U	.13	.13	.13	FIN-26	0	.12	.13
8S-60L	.08	.05	.05	FIN-27	0	.08	.08
10-32U	0	.01	.01	FIN-28	0	.07	.06



TABLE 7. - CONTINUED  
(b) - Continued

ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$
8-1.25L	.59	.63	.63	11-32U	.21	.25	.35
8-2.5L	.49	.53	.57	12-32U	.32	.40	.49
8-5L	.32	.37	.44	TIP-32C	.36	.45	.57
8-8L	.21	.27	.31	11-32L	.11	.12	.03
8-14L	.12	.03	.20	10-32L	.07	.07	.07
8-19L	.08	.11	.15	10-70U	.07	.08	.11
8-32L	0	.01	.04	11-70U	.30	.41	.49
8-38L	.01	0	.01	12-70U	.21	.27	.32
8-44L	.05	.03	.01	TIP-70C	.03	.03	.04
8-60L	.04	.04	.04	12-70L	.46	.59	.72
8-95L	.08	.08	.08	11-70L	.14	.19	.23
9-0C	.29	.69	1.19	10-70L	.08	.09	.09
9-1.25U	.91	1.12	1.36	FIN-1	.01	.03	.04
9-2.5U	.87	1.03	1.19	FIN-2	.03	.03	.03
9-5U	.64	.75	.85	FIN-3	.01	0	.03
9-14U	.39	.44	.48	FIN-4	.11	.12	.12
9-19U	.34	.39	.40	FIN-5	.01	.03	.01
9-32U	.25	.27	.28	FIN-6	.01	.03	.01
9-44U	.16	.17	.16	FIN-7	.08	.07	.03
9-70U	0	.01	.01	FIN-8	.01	0	.01
9-80U	0	0	.01	FIN-9	.05	.04	.03
9-100C	.12	.11	.09	FIN-10	.05	.05	.05
9-1.25L	.55	.60	.61	FIN-11	.07	.07	.07
9-5L	.30	.35	.40	FIN-12	.04	.04	.03
9-8L	.18	.20	.27	FIN-13	0	.01	.03
9-14L	.08	.12	.15	FIN-14	.11	.09	.08
9-19L	.04	.03	.08	FIN-15	.03	.03	.01
9-32L	.07	.05	.03	FIN-16	.03	0	0
9-38L	.05	.04	.03	FIN-17	.01	.01	.03
9-44L	.01	.01	0	FIN-18	.01	0	0
9-70L	.05	.05	.05	FIN-19	.05	.04	.04
9-90L	.05	.04	.04	FIN-20	.01	.01	.01
9-95L	.12	.12	.12	FIN-21	.11	.11	.09
2S-60U	.16	.15	.15	FIN-22	.05	.04	.04
2S-60L	.05	.05	.04	FIN-23	.04	.04	.03
5S-60U	.04	.04	.03	FIN-24	.03	.04	.04
5S-60L	.05	.04	.03	FIN-25	.17	.17	.16
8S-60U	.14	.13	.13	FIN-26	.12	.12	.12
8S-60L	.04	.04	.03	FIN-27	.07	.07	.07
10-32U	.03	.03	.04	FIN-28	.05	.05	.05

TABLE 7. - CONTINUED  
(b) - Concluded

ORIFICE	$\alpha = 16$	$\alpha = 18$	ORIFICE	$\alpha = 16$	$\alpha = 18$
8-1.25L	.63	.41	11-32U	.39	.41
8-2.5L	.55	.34	12-32U	.55	.53
8-5L	.38	.19	TIP-32C	.61	.53
8-8L	.27	.10	11-32L	.15	.16
8-14L	.15	.03	10-32L	.08	.12
8-19L	.10	.01	10-70U	.14	.19
8-32L	0	.07	11-70U	.45	.37
8-38L	.03	.09	12-70U	.37	.38
8-44L	.06	.10	TIP-70C	.03	.03
8-60L	.06	.09	12-70L	.68	.49
8-95L	.06	0	11-70L	.21	.19
9-0C	1.03	.76	10-70L	.11	.13
9-1.25U	1.35	1.16	FIN-1	.03	.01
9-2.5U	1.20	1.06	FIN-2	.04	.07
9-5U	.87	.81	FIN-3	0	.03
9-14U	.51	.51	FIN-4	.15	.19
9-19U	.44	.44	FIN-5	.06	.09
9-32U	.31	.32	FIN-6	.06	.09
9-44U	.21	.24	FIN-7	.03	.03
9-70U	.06	.12	FIN-8	0	0
9-80U	.03	.09	FIN-9	.03	.04
9-100C	.07	0	FIN-10	.07	.09
9-1.25L	.62	.41	FIN-11	.08	.10
9-5L	.38	.22	FIN-12	.06	.07
9-8L	.23	.10	FIN-13	.03	.01
9-14L	.11	0	FIN-14	.10	.12
9-19L	.06	.04	FIN-15	.03	.04
9-32L	.07	.07	FIN-16	0	.01
9-38L	.06	.10	FIN-17	0	.03
9-44L	.04	.09	FIN-18	.01	.04
9-70L	.08	.13	FIN-19	.06	.07
9-90L	.01	.04	FIN-20	.03	.04
9-95L	.08	0	FIN-21	.11	.12
2S-60U	.17	.18	FIN-22	.07	.07
2S-60L	.06	.09	FIN-23	.06	.07
5S-60U	.06	.07	FIN-24	.03	.03
5S-60L	.06	.07	FIN-25	.17	.19
8S-60U	.15	.18	FIN-26	.13	.13
8S-60L	.06	.07	FIN-27	.07	.09
10-32U	.03	.03	FIN-28	.07	.09



TABLE 7. - CONTINUED  
(c)  $\delta_e, -16^\circ$ .

ORIFICE	$\alpha = 2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = 2$	$\alpha = 0$	$\alpha = 2$
1-0C	.34	.34	.36	3-1.25U	.45	.29	.13
1-1.25U	.51	.43	.34	3-8U	.09	-	.08
1-2.5U	.39	.33	.25	3-14U	.01	.05	.12
1-5U	.26	.22	.17	3-19U	.03	.08	.13
1-8U	.18	.14	.10	3-32U	.04	.08	.13
1-14U	.13	.09	.05	3-60U	.05	.07	.08
1-19U	.07	.04	0	3-70U	.01	.01	.04
1-32U	.04	0	.03	3-95U	.05	.05	.05
1-70U	-	.12	.12	3-1.25L	-	.45	.01
1-80U	-	.03	.04	3-2.5L	-	.46	.10
1-90U	-	.01	.01	3-5L	-	.45	.17
1-95U	.07	.07	.06	3-8L	-	.33	.13
1-2.5L	-	.47	.22	3-14L	-	.29	.14
1-5L	-	.42	.21	3-32L	-	.22	.14
1-14L	-	.28	.16	3-38L	-	.25	.17
1-19L	-	.26	.14	3-60L	-	.18	.14
1-32L	-	.17	.09	3-80L	-	.04	.04
1-38L	-	.21	.14	3-95L	-	.09	.08
1-60L	-	.17	.13	4-0C	.37	.54	.68
1-70L	-	.12	.09	4-1.25U	.41	.26	.09
1-80L	-	.07	.05	4-2.5U	.29	.14	0
2-1.25U	-	.01	.13	4-14U	-	.03	.19
2-2.5U	.32	.18	.06	4-19U	-	.04	.14
2-5U	.18	.08	.01	4-32U	-	.07	.14
2-32U	0	-	.08	4-38U	-	.11	.13
2-38U	-	.14	.17	4-60U	-	.13	.17
2-44U	-	.07	.05	4-70U	-	.03	.01
2-70U	.01	.01	.04	4-90U	-	.04	.03
2-80U	0	.01	.01	4-95U	-	.08	.08
2-95U	.08	.08	.08	4-100C	.16	.16	.16
2-100C	.12	.12	.12	4-2.5L	-	.42	.06
2-1.25L	-	.51	.08	4-5L	-	.37	.13
2-2.5L	-	.49	.16	4-8L	-	.28	.09
2-5L	-	.47	.22	4-14L	-	.36	.21
2-14L	-	.29	.18	4-19L	-	.32	.19
2-32L	-	.24	.16	4-32L	-	.22	.13
2-38L	-	.24	.17	4-38L	-	.26	.18
2-44L	-	.22	.16	4-44L	-	.22	.16
2-70L	.08	.07	.05	4-60L	-	.16	.12
2-95L	.08	.08	.08	4-80L	-	.03	.01



TABLE 7. - CONTINUED  
(c) - Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
1-0C	.38	.39	.39	3-1.25U	.06	.29	.51
1-1.25U	.30	.29	.29	3-8U	.17	.27	.37
1-2.5U	.21	.19	.18	3-14U	.18	.25	.32
1-5U	.13	.10	.09	3-19U	.19	.25	.30
1-8U	.06	.04	.01	3-32U	.16	.19	.24
1-14J	.03	0	.03	3-60U	.10	.12	.14
1-19U	.04	.08	.11	3-70U	.06	.08	.11
1-32U	.06	.09	.13	3-95U	.06	.06	.05
1-70U	.13	.14	.16	3-1.25L	.18	.32	.43
1-80U	.05	.06	.08	3-2.5L	.04	.17	.26
1-90U	.01	.03	.04	3-5L	.08	.03	.11
1-95U	.05	.04	.03	3-8L	.06	.01	.08
1-2.5L	.17	.17	.20	3-14L	.10	.04	.01
1-5L	.17	.14	.16	3-32L	.12	.08	.05
1-14L	.10	.08	.07	3-38L	.16	.10	.09
1-19L	.10	.08	.07	3-60L	.13	.10	.11
1-32L	.06	.03	.01	3-80L	.03	.03	.03
1-38L	.10	.08	.07	3-95L	.08	.12	.05
1-60L	.10	.08	.08	4-0C	.68	.52	.29
1-70L	.08	.06	.07	4-1.25U	.10	.34	.59
1-80L	.04	.03	.04	4-2.5U	.16	.32	.54
2-1.25U	.10	.05	.05	4-14U	.30	.36	.45
2-2.5U	.06	.21	.33	4-19U	.19	.26	.32
2-5U	.12	.22	.30	4-32U	.17	.21	.26
2-32U	.10	.13	.18	4-38U	.17	.19	.24
2-38U	.19	.22	.25	4-60U	.18	.19	.22
2-44U	.06	.08	.11	4-70U	.04	.06	.09
2-70U	.05	.06	.08	4-90U	.03	.03	.01
2-80U	.01	.03	.04	4-95U	.08	.08	.07
2-95U	.08	.08	.05	4-100C	.16	.14	.12
2-100C	.10	.09	.05	4-2.5L	.08	.21	.30
2-1.25L	.10	.26	.32	4-5L	.01	.09	.16
2-2.5L	.01	.12	.18	4-8L	.01	.06	.13
2-5L	.10	0	.07	4-14L	.13	.06	.03
2-14L	.12	.05	.01	4-19L	.13	.06	.04
2-32L	.12	.08	.05	4-32L	.09	.05	.04
2-38L	.13	.09	.08	4-38L	.16	.10	.09
2-44L	.13	.05	.08	4-44L	.13	.09	.08
2-70L	.03	0	.01	4-60L	.10	.08	.08
2-95L	.06	.05	.04	4-80L	.01	0	.01



TABLE 7. - CONTINUED  
(c) - Continued

ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$
1-0C	.45	.45	.49	3-1.25U	-.74	-1.03	-1.18
1-1.25U	.30	.28	.27	3-8U	-.43	-.53	-.57
1-2.5U	.20	.17	.16	3-14U	-.36	-.43	-.46
1-5U	.09	.08	.07	3-19U	-.34	-.39	-.41
1-8U	.01	.01	.01	3-32U	-.25	-.28	-.30
1-14J	-.03	-.05	-.07	3-60U	-.14	-.15	-.16
1-19U	-.11	-.13	-.14	3-70U	-.09	-.07	-.07
1-32U	-.13	-.16	-.18	3-95U	-.07	-.04	-.03
1-70U	-.14	-.16	-.16	3-1.25L	.53	.57	.47
1-80U	-.08	-.09	-.09	3-2.5L	.37	.43	.41
1-90U	-.04	-.05	-.05	3-5L	.21	.27	.28
1-95U	.04	.01	.03	3-8L	.16	.21	.23
1-2.5L	-.18	-.19	-.16	3-14L	.08	.12	.15
1-5L	-.14	-.15	-.14	3-32L	0	.01	.04
1-14L	-.04	-.04	-.03	3-38L	-.04	-.03	-.01
1-19L	-.03	-.03	-.01	3-60L	-.07	-.05	-.03
1-32L	.01	.03	.04	3-80L	0	.01	0
1-38L	-.03	-.01	-.01	3-95L	.07	.04	.03
1-60L	-.05	-.04	-.04	4-0C	.01	.43	.81
1-70L	-.03	-.03	-.01	4-1.25U	.83	1.11	1.30
1-80L	-.01	-.01	0	4-2.5U	.72	.84	1.00
2-1.25U	-.13	.24	.31	4-14U	-.49	-.56	-.59
2-2.5U	-.37	.41	.41	4-19U	-.36	-.43	-.46
2-5U	-.32	.36	.36	4-32U	-.28	-.32	-.34
2-32U	-.20	.23	.26	4-38U	-.25	-.29	-.31
2-38U	-.24	.28	.31	4-60U	-.21	-.23	-.23
2-44U	-.11	.15	.16	4-70U	-.09	-.11	-.09
2-70U	-.08	.12	.14	4-90U	.03	.01	.01
2-80U	-.04	.07	.08	4-95U	.08	.07	.07
2-95U	.05	.03	.03	4-100C	.13	.11	.09
2-100C	.04	.03	.01	4-2.5L	.41	.47	.51
2-1.25L	.32	.29	.24	4-5L	.25	.32	.38
2-2.5L	.22	.23	.24	4-8L	.20	.24	.30
2-5L	.13	.16	.16	4-14L	.05	.09	.14
2-14L	.07	.09	.11	4-19L	.03	.07	.11
2-32L	0	.01	.04	4-32L	.01	.03	.05
2-38L	-.03	0	.03	4-38L	-.05	-.03	-.01
2-44L	-.03	.01	.01	4-44L	-.04	-.03	-.01
2-70L	-.04	-.04	-.05	4-60L	-.04	-.04	-.03
2-95L	.05	.04	.04	4-80L	.01	.01	.01

TABLE 7. - CONTINUED  
(c) - Continued

ORIFICE	$\alpha = 16$	$\alpha = 18$	ORIFICE	$\alpha = 16$	$\alpha = 18$
1-0C	.50	.64	3-1.25U	1.11	.84
1-1.25U	.24	.24	3-8U	.56	.49
1-2.5U	.14	.12	3-14U	.44	.42
1-5U	.03	.01	3-19U	.40	.39
1-8U	.04	.06	3-32U	.30	.30
1-14U	.09	.10	3-60U	.16	.19
1-19U	.16	.16	3-70U	.09	.10
1-32U	.19	.18	3-95U	.01	.01
1-70U	.17	.19	3-1.25L	.36	.42
1-80U	.10	.10	3-2.5L	.33	.28
1-95U	.06	.07	3-5L	.26	.16
1-95U	.01	.01	3-8L	.21	.12
1-2.5L	.14	.21	3-14L	.14	.06
1-5L	.13	.21	3-32L	.04	.01
1-14L	.03	.10	3-38L	.01	.04
1-19L	.01	.09	3-60L	.03	.06
1-32L	.04	.01	3-80L	.01	.01
1-38L	.01	.07	3-95L	.01	.03
1-60L	.04	.09	4-0C	.77	.01
1-70L	.03	.06	4-1.25U	1.27	.78
1-80L	.01	.04	4-2.5U	.99	.67
2-1.25U	.41	.45	4-14U	.60	.52
2-2.5U	.44	.40	4-19U	.46	.40
2-5U	.39	.37	4-32U	.34	.33
2-32U	.26	.25	4-38U	.33	.33
2-50U	.31	.31	4-60U	.23	.25
2-70U	.20	.21	4-70U	.09	.12
2-70U	.14	.12	4-90U	0	.03
2-80U	.09	.09	4-95U	.04	.03
2-95U	.03	.03	4-100C	.09	.09
2-100C	0	.04	4-2.5L	.49	.27
2-1.25L	.26	.25	4-5L	.34	.13
2-2.5L	.21	.01	4-8L	.26	.10
2-5L	.17	.07	4-14L	.11	.01
2-14L	.11	.03	4-19L	.07	.03
2-32L	.06	.01	4-32L	.04	.03
2-38L	.03	.03	4-38L	.03	.07
2-44L	.01	.04	4-44L	.03	.06
2-70L	.04	.03	4-60L	.04	.06
2-95L	.03	.04	4-80L	0	.01



TABLE 7.- CONTINUED  
(c)- Continued

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$
4-90L	.04	.04	.04	6-8L	-.26	.16	.08
4-95L	.09	.08	.08	6-14L	-.28	.20	.13
5-0C	.49	.64	.69	6-19L	-.24	.18	.13
5-1.25U	.36	.17	0	6-38L	-.22	.18	.16
5-8U	.05	.04	.12	6-44L	-.21	.18	.16
5-14U	-.01	.09	.16	6-60L	-.17	.16	.13
5-19U	-.07	.14	.19	6-70L	-.07	.05	.04
5-38U	-.08	.12	.14	7-0C	.63	.70	.66
5-44U	-.05	.09	.12	7-5U	.04	.09	.19
5-60U	-.09	.12	.13	7-8U	.01	.09	.16
5-70U	-.03	.05	.06	7-14U	-.04	.12	.17
5-80U	-.03	.04	.04	7-19U	-.07	.13	.17
5-90U	.03	.03	.03	7-38U	-.12	.16	.18
5-95U	.05	.05	.05	7-60U	-.09	.11	.12
5-1.25L	.38	.12	.05	7-90U	.01	.01	.01
5-2.5L	.37	.16	.01	7-95U	.08	.08	.08
5-5L	.38	.22	.12	7-1.25L	-.26	.03	.14
5-8L	-.29	.18	.09	7-2.5L	-.34	.14	0
5-14L	-.25	.18	.12	7-5L	-.34	.20	.08
5-19L	-.28	.21	.16	7-8L	-.29	.18	.10
5-38L	-.24	.20	.17	7-14L	-.25	.17	.14
5-44L	-.21	.17	.14	7-19L	-.25	.20	.16
5-60L	-.20	.17	.16	7-32L	-.21	.17	.14
5-70L	.05	.04	.03	7-44L	-.17	.14	.13
5-90L	.04	.04	.05	7-60L	-.14	.13	.10
5-95L	.09	.09	.09	7-70L	-.09	.08	.06
6-0C	.47	.63	.66	7-90L	.05	.05	.05
6-5U	.07	.07	.18	7-95L	.11	.11	.10
6-14U	-.04	.11	.17	8-0C	.63	.70	.65
6-19U	-.03	.03	.03	8-1.25U	.28	.08	.09
6-32U	-.18	.16	.16	8-2.5U	.09	.07	.21
6-44U	-.14	.13	.13	8-5U	.04	.08	.18
6-60U	-.09	.11	.12	8-8U	-.01	.11	.18
6-70U	-.09	.11	.12	8-14U	-.05	.12	.17
6-80U	-.03	.03	.04	8-19U	-.08	.13	.17
6-90U	-.03	.01	.01	8-60U	-.01	.03	.03
6-100C	.16	.16	.16	8-80U	-.01	.03	.03
6-1.25L	.32	.04	.13	8-90U	.03	.03	.04
6-2.5L	.39	.20	.05	8-95U	-.11	.09	.09
6-5L	.36	.21	.09	8-100C	.17	.17	.17

TABLE 7.- CONTINUED  
(c)- Continued

ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$	ORIFICE	$\alpha = 4$	$\alpha = 6$	$\alpha = 8$
4-90L	.04	.04	.04	6-8L	.03	.12	.18
4-95L	.08	.06	.08	6-14L	-	.05	.06
5-0C	.64	.49	.26	6-19L	-	.07	.04
5-1.25U	-.24	-.47	-.74	6-38L	-	.12	.05
5-8U	-.22	-.29	-.36	6-44L	-	.13	.08
5-14U	-.22	-.27	-.34	6-60L	-	.12	.08
5-19U	-.25	-.29	-.35	6-70L	-	.03	0
5-38U	-.18	-.21	-.25	7-0C	-.51	-.23	-.13
5-44U	-.14	-.18	-.21	7-5U	-.32	-.44	-.56
5-60U	-.14	-.16	-.17	7-8U	-.25	-.34	-.43
5-70U	-.08	-.09	-.10	7-14U	-.22	-.29	-.35
5-80U	-.05	-.05	-.05	7-19U	-.22	-.27	-.32
5-90U	.01	.01	.03	7-38U	-.21	-.25	-.26
5-95U	.05	.05	.05	7-60U	-.13	-.14	-.16
5-1.25L	.25	.38	.49	7-90U	.01	.01	.03
5-2.5L	.13	.26	.36	7-95U	.08	.08	.08
5-5L	- 0	-.10	-.19	7-1.25L	.32	.44	.53
5-8L	- 0	.08	.14	7-2.5L	.16	.27	.38
5-14L	-.05	.01	.08	7-5L	.04	.14	.23
5-19L	-.11	-.04	0	7-8L	-.01	.08	.14
5-38L	-.13	-.09	.06	7-14L	-.07	.01	.06
5-44L	-.12	-.09	.06	7-19L	-.09	.03	.01
5-60L	-.13	-.12	.09	7-32L	-.11	.06	.03
5-70L	-.01	0	0	7-44L	-.11	.08	.05
5-90L	.05	.05	.05	7-60L	-.09	.08	.06
5-95L	.09	.09	.08	7-70L	-.05	.05	.04
6-0C	.62	.44	.18	7-90L	-.05	.05	.05
6-5U	-.32	-.43	-.55	7-95L	.09	.09	.09
6-14U	-.25	.30	.38	8-0C	.49	.22	.16
6-19U	-.01	.01	.01	8-1.25U	-.34	-.57	-.83
6-32U	-.17	-.18	.21	8-2.5U	-.39	-.58	-.77
6-44U	-.14	-.16	.17	8-5U	-.32	-.42	-.51
6-60U	-.13	-.14	.16	8-8U	-.28	-.35	-.44
6-70U	-.13	-.13	.13	8-14U	-.22	-.27	-.34
6-80U	-.04	-.05	.05	8-19U	-.20	-.26	-.30
6-90U	- 0	0	0	8-60U	-.04	.05	.05
6-100C	.14	.14	.13	8-80U	-.03	.03	.03
6-1.25L	.32	.43	.53	8-90U	.04	.04	.04
6-2.5L	.11	.23	.34	8-95U	-.08	-.06	-.05
6-5L	.03	.13	.23	8-100C	.16	.16	.14



TABLE 7.- CONTINUED  
(c)- Continued

ORIFICE	$\alpha = 1.0$	$\alpha = 1.2$	$\alpha = 1.4$	ORIFICE	$\alpha = 1.0$	$\alpha = 1.2$	$\alpha = 1.4$
4-90L	.04	.05	.04	6-8L	.24	.30	.35
4-95L	.07	.07	.07	6-14L	.12	.17	.21
5-0C	- .09	- .53	- .99	6-19L	.09	.13	.17
5-1.25U	- 1.03	- 1.38	- 1.56	6-38L	- .03	0	.03
5-8U	- .47	- .57	- .65	6-44L	- .05	- .03	0
5-14U	- .41	- .46	- .52	6-60L	- .07	- .05	.04
5-19U	- .41	- .45	- .49	6-70L	- .01	- .03	.04
5-38U	- .28	- .29	- .31	7-0C	- .59	- 1.14	- 1.75
5-44U	- .22	- .24	- .25	7-5U	- .68	- .82	- .95
5-60U	- .18	- .18	- .19	7-8U	- .54	- .62	- .71
5-70U	- .12	- .13	- .13	7-14U	- .42	- .47	- .53
5-80U	- .07	- .05	- .05	7-19U	- .37	- .42	- .47
5-90U	.03	.16	.03	7-38U	- .29	- .30	- .32
5-95U	.05	.05	.07	7-60U	- .16	- .17	- .17
5-1.25L	.57	.62	.65	7-90U	.03	.03	.03
5-2.5L	.45	.51	.57	7-95U	.08	.08	.08
5-5L	.28	.34	.40	7-1.25L	.61	.63	.65
5-8L	.20	.26	.32	7-2.5L	.46	.53	.57
5-14L	.12	.17	.21	7-5L	.30	.38	.43
5-19L	.05	.11	.15	7-8L	.21	.28	.32
5-38L	- .03	0	.03	7-14L	.11	.17	.21
5-44L	- .03	0	.01	7-19L	.07	.11	.15
5-60L	- .08	- .07	- .05	7-32L	- 0	.03	.05
5-70L	.01	.03	.04	7-44L	- .03	- .01	0
5-90L	.05	.05	.05	7-60L	- .05	- .04	- .03
5-95L	.08	.08	.08	7-70L	- .03	- .03	- .01
6-0C	- .18	- .64	- 1.15	7-90L	- .05	- .05	- .07
6-5U	- .68	- .82	- .95	7-95L	.09	.08	.08
6-14U	- .43	- .49	- .55	8-0C	- .61	- 1.13	- 1.72
6-19U	- 0	.01	.01	8-1.25U	- 1.07	- 1.32	- 1.59
6-32U	- .24	- .26	- .29	8-2.5U	- .92	- 1.11	- 1.29
6-44U	- .20	- .22	- .24	8-5U	- .64	- .76	- .88
6-60U	- .17	- .17	- .19	8-8U	- .53	- .62	- .69
6-70U	- .13	- .13	- .13	8-14U	- .39	- .45	- .51
6-80U	- .05	- .04	- .04	8-19U	- .36	- .39	- .44
6-90U	.03	.03	.04	8-60U	- .07	- .07	- .05
6-100C	.12	.12	.11	8-80U	- .03	- .03	- .01
6-1.25L	.59	.64	.67	8-90U	.04	.04	.04
6-2.5L	.42	.50	.56	8-95U	- .04	- .04	- .03
6-5L	.30	.43	.43	8-100C	.14	.13	.12

TABLE 7.- CONTINUED  
(c)- Continued

ORIFICE	$\alpha = 16$	$\alpha = 18$	ORIFICE	$\alpha = 16$	$\alpha = 18$
4-90L	.03	.03	6-8L	.30	.10
4-95L	.04	.04	6-14L	.15	.01
5-0C	- .80 -	.04	6-19L	.11 -	.01
5-1.25U	- 1.54 -	.85	6-38L	- .01 -	.09
5-8U	- .63 -	.47	6-44L	- .04 -	.09
5-14U	- .51 -	.43	6-60L	- .07 -	.10
5-19U	- .49 -	.43	6-70L	- 0 -	.03
5-38U	- .31 -	.31	7-0C	- 1.38 -	.81
5-44U	- .25 -	.25	7-5U	- .92 -	.76
5-60U	- .20 -	.22	7-8U	- .69 -	.60
5-70U	- .14 -	.15	7-14U	- .52 -	.49
5-80U	- .07 -	.10	7-19U	- .46 -	.44
5-90U	.01 -	.03	7-38U	- .34 -	.34
5-95U	.04 -	0	7-60U	- .18 -	.22
5-1.25L	.62	.37	7-90U	.01 -	.04
5-2.5L	.52	.26	7-95U	.06 -	0
5-5L	.35	.12	7-1.25L	.63	.37
5-8L	.27	.09	7-2.5L	.54	.28
5-14L	.17	.01	7-5L	.38	.15
5-19L	.10 -	.03	7-8L	.27	.09
5-38L	- 0 -	.07	7-14L	.15	.01
5-44L	- .01 -	.06	7-19L	.10 -	.03
5-60L	- .07 -	.09	7-32L	.01 -	.07
5-70L	.01 -	.01	7-44L	- .03 -	.09
5-90L	.04	.01	7-60L	- .07 -	.10
5-95L	.07	.04	7-70L	- .06 -	.09
6-0C	- .83 -	.26	7-90L	.03 -	.03
6-5U	- .90 -	.69	7-95L	.06 -	0
6-14U	- .55 -	.49	8-0C	- 1.44 -	1.06
6-19U	- 0 -	0	8-1.25U	- 1.51 -	1.24
6-32U	- .35 -	.37	8-2.5U	- 1.25 -	1.06
6-44U	- .28 -	.29	8-5U	- .87 -	.78
6-60U	- .20 -	.22	8-8U	- .70 -	.65
6-70U	- .15 -	.18	8-14U	- .51 -	.50
6-80U	- .07 -	.10	8-19U	- .45 -	.44
6-90U	.03	.01	8-60U	- .08 -	.12
6-100C	.10	.04	8-80U	- .04 -	.10
6-1.25L	.63	.37	8-90U	.01 -	.04
6-2.5L	.49	.22	8-95U	- .06 -	.09
6-5L	.38	.13	8-100C	.11	.03



TABLE 7. - CONTINUED  
(c) - Continued

ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$	ORIFICE	$\alpha = -2$	$\alpha = 0$	$\alpha = 2$
8-1.25L	-.26	.03	.13	11-32U	.09	.09	.08
8-2.5L	-.28	.11	.04	12-32U	.09	.05	.07
8-5L	-.28	.16	.07	TIP-32C	.11	.05	.07
8-8L	-.26	.17	.05	11-32L	.11	.08	.07
8-14L	-.22	.16	.11	10-32L	.12	.11	.09
8-19L	-.21	.16	.12	10-70U	.05	.05	.04
8-32L	-.17	.14	.12	11-70U	.05	.04	.03
8-38L	-.16	.14	.12	12-70U	.05	.01	.01
8-44L	-.16	.14	.12	TIP-70C	.03	.01	.01
8-60L	.07	.07	.07	12-70L	.05	.01	.03
8-95L	.11	.11	.11	11-70L	.01	.01	.01
9-0C	.58	.67	.67	10-70L	.03	.03	.03
9-1.25U	.26	.09	.08	FIN-1	.01	.01	.01
9-2.5U	.11	.04	.18	FIN-2	.01	.01	.03
9-5U	.01	.11	.20	FIN-3	.01	.01	.01
9-14U	-.09	.14	.20	FIN-4	.05	.07	.07
9-19U	-.11	.14	.18	FIN-5	0	.01	.01
9-32U	-.12	.14	.17	FIN-6	0	.01	.01
9-44U	.08	.09	.11	FIN-7	.18	.16	.16
9-70U	.04	.03	.01	FIN-8	.05	.05	.05
9-80U	.01	.01	.01	FIN-9	.08	.08	.08
9-100C	.16	.16	.16	FIN-10	.05	.07	.07
9-1.25L	-.26	.04	.12	FIN-11	.05	.07	.07
9-5L	-.25	.13	.03	FIN-12	.04	.04	.04
9-8L	-.25	.16	.09	FIN-13	.07	.07	.07
9-14L	-.21	.16	.11	FIN-14	.14	.14	.14
9-19L	-.20	.14	.12	FIN-15	.07	.07	.07
9-32L	-.18	.17	.14	FIN-16	.04	.04	.04
9-38L	-.14	.12	.11	FIN-17	.01	.01	0
9-44L	.09	.08	.07	FIN-18	.03	.03	.03
9-70L	.03	.03	.03	FIN-19	.05	.05	.05
9-90L	.08	.08	.08	FIN-20	.03	.03	.03
9-95L	.12	.13	.13	FIN-21	.11	.12	.12
2S-60U	.11	.12	.13	FIN-22	.07	.05	.05
2S-60L	.11	.11	.09	FIN-23	.05	.04	.04
5S-60U	.07	.05	.05	FIN-24	.01	.01	.01
5S-60L	.11	.09	.09	FIN-25	.17	.18	.18
8S-60U	.09	.09	.11	FIN-26	.12	.12	.12
8S-60L	.09	.09	.08	FIN-27	.07	.07	.07
10-32U	.03	.01	.01	FIN-28	.05	.07	.07



TABLE 7. - CONTINUED  
(c) - Continued

ORIFICE	a = 4	a = 6	a = 8	ORIFICE	a = 4	a = 6	a = 8
8-1.25L	.29	.42	.51	11-32U	.11	.13	.16
8-2.5L	.18	.30	.39	12-32U	.09	.14	.21
8-5L	.05	.14	.22	TIP-32C	.09	.16	.22
8-8L	.01	.07	.13	11-32L	.07	.08	.08
8-14L	.04	.01	.05	10-32L	.08	.08	.07
8-19L	.07	.01	.03	10-70U	.04	.04	.05
8-32L	.08	.05	.03	11-70U	.03	.07	.14
8-38L	.09	.07	.05	12-70U	.04	.07	.12
8-44L	.11	.08	.07	TIP-70C	.00	.01	.01
8-60L	.05	.05	.04	12-70L	.07	.16	.29
8-95L	.09	.09	.09	11-70L	.04	.08	.11
9-0C	.59	.53	.14	10-70L	.04	.05	.07
9-1.25U	.29	.53	.64	FIN-1	.00	.00	.00
9-2.5U	.34	.51	.67	FIN-2	.03	.03	.03
9-5U	.30	.42	.50	FIN-3	.01	.07	.01
9-14U	.25	.28	.34	FIN-4	.08	.08	.11
9-19U	.22	.26	.30	FIN-5	.01	.01	.03
9-32U	.18	.21	.22	FIN-6	.01	.01	.03
9-44U	.12	1.28	.14	FIN-7	.14	.14	.12
9-70U	.00	.01	.01	FIN-8	.04	.03	.04
9-80U	.01	.01	.01	FIN-9	.08	.07	.07
9-100C	.14	.14	.13	FIN-10	.07	.05	.05
9-1.25L	.26	.38	.47	FIN-11	.07	.07	.07
9-5L	.09	.17	.22	FIN-12	.04	.04	.04
9-8L	.01	.05	.11	FIN-13	.05	.05	.03
9-14L	.07	.01	.03	FIN-14	.13	.13	.12
9-19L	.08	.04	.00	FIN-15	.05	.05	.04
9-32L	.12	.11	.08	FIN-16	.04	.03	.03
9-38L	.09	.08	.07	FIN-17	.00	.01	.01
9-44L	.05	.04	.03	FIN-18	.03	.01	.01
9-70L	.03	.04	.04	FIN-19	.05	.05	.05
9-90L	.07	.07	.05	FIN-20	.03	.03	.03
9-95L	.13	.12	.13	FIN-21	.12	.12	.12
2S-60U	.13	.13	.14	FIN-22	.05	.05	.05
2S-60L	.08	.08	.07	FIN-23	.03	.04	.04
5S-60U	.05	.04	.05	FIN-24	.00	.00	.01
5S-60L	.08	.07	.05	FIN-25	.18	.20	.18
8S-60U	.12	.12	.13	FIN-26	.13	.13	.13
8S-60L	.07	.07	.05	FIN-27	.07	.07	.07
10-32U	.00	.00	.01	FIN-28	.07	.07	.05



TABLE 7. - CONTINUED  
(c) - Continued

ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$	ORIFICE	$\alpha = 10$	$\alpha = 12$	$\alpha = 14$
8-1.25L	.58	.61	.63	11-32U	-.20	-.24	-.32
8-2.5L	.46	.52	.57	12-32U	-.28	-.37	-.47
8-5L	.30	.36	.41	TIP-32C	-.33	-.43	-.56
8-8L	.20	.25	.31	11-32L	-.11	-.13	-.16
8-14L	.12	.15	.19	10-32L	-.07	-.07	-.07
8-19L	.07	.11	.15	10-70U	-.07	-.08	-.11
8-32L	0	.01	.04	11-70U	-.28	-.39	-.47
8-38L	-.03	0	.01	12-70U	-.18	-.24	-.31
8-44L	-.05	.03	.01	TIP-70C	.03	.03	.04
8-60L	-.04	.03	.03	12-70L	-.42	-.55	-.69
8-95L	.09	.08	.08	11-70L	-.14	-.17	-.21
9-0C	-.21	.60	1.11	10-70L	-.08	.08	.09
9-1.25U	-.84	1.07	1.32	FIN-1	.01	.03	.04
9-2.5U	-.82	.99	1.15	FIN-2	-.03	.03	.03
9-5U	-.62	.72	.83	FIN-3	.01	.03	.03
9-14U	-.38	.43	.47	FIN-4	-.11	-.11	-.12
9-19U	-.33	.36	.40	FIN-5	-.03	.01	.03
9-32U	-.24	.25	.27	FIN-6	-.03	.01	.03
9-44U	-.14	.16	.17	FIN-7	-.09	.07	.04
9-70U	0	.01	.01	FIN-8	-.01	0	.01
9-80U	.01	0	0	FIN-9	-.05	.04	.03
9-100C	.12	.11	.23	FIN-10	-.05	.05	.05
9-1.25L	.54	.59	.61	FIN-11	-.07	.07	.05
9-5L	.29	.35	.40	FIN-12	-.04	.03	.03
9-8L	.17	.21	.27	FIN-13	-.01	0	.03
9-14L	.07	.11	.13	FIN-14	-.11	.09	.08
9-19L	.03	.05	.08	FIN-15	-.04	.03	.01
9-32L	-.07	.05	.04	FIN-16	-.01	0	0
9-38L	-.05	.04	.03	FIN-17	.01	.01	.01
9-44L	-.03	.01	0	FIN-18	-.01	.01	0
9-70L	-.04	.05	.05	FIN-19	-.05	.05	.04
9-90L	.05	.05	.04	FIN-20	-.01	.01	.01
9-95L	.12	.12	.12	FIN-21	-.11	.11	.08
28-60U	-.14	.15	.15	FIN-22	-.05	.04	.04
28-60L	-.05	.05	.04	FIN-23	-.04	.04	.03
58-60U	-.04	.03	.03	FIN-24	.03	.03	.04
58-60L	-.04	.03	.03	FIN-25	-.18	.17	.16
88-60U	-.13	.13	.12	FIN-26	-.12	.12	.12
88-60L	-.04	.03	.03	FIN-27	-.07	.08	.07
10-32U	.01	.03	.04	FIN-28	-.05	.07	.05

TABLE 7. -- CONCLUDED  
(c) -- Concluded

ORIFICE	$\alpha = 16$	$\alpha = 18$	ORIFICE	$\alpha = 16$	$\alpha = 18$
8-1.25L	.62	.37	11-32U	.35	.39
8-2.5L	.55	.31	12-32U	.51	.51
8-5L	.37	.19	TIP-32C	.56	.51
8-8L	.25	.10	11-32L	.14	.16
8-14L	.15	.03	10-32L	.08	.10
8-19L	.10	.01	10-70U	.13	.18
8-32L	0	.06	11-70U	.45	.34
8-38L	.03	.09	12-70U	.32	.37
8-44L	.06	.10	TIP-70C	.03	.03
8-60L	.06	.07	12-70L	.65	.46
8-95L	.06	.01	11-70L	.21	.18
9-0C	.94	.78	10-70L	.11	.13
9-1.25U	1.28	1.13	FIN-1	.03	0
9-2.5U	1.15	.90	FIN-2	.04	.07
9-5U	.85	.79	FIN-3	0	.04
9-14U	.49	.49	FIN-4	.14	.19
9-19U	.42	.43	FIN-5	.06	.09
9-32U	.30	.33	FIN-6	.06	.09
9-44U	.20	.22	FIN-7	.04	.01
9-70U	.06	.12	FIN-8	.01	.01
9-80U	.03	.09	FIN-9	.04	.04
9-100C	.07	0	FIN-10	.07	.10
9-1.25L	.61	.39	FIN-11	.07	.10
9-5L	.37	.21	FIN-12	.06	.07
9-8L	.23	.09	FIN-13	.01	.01
9-14L	.10	0	FIN-14	.10	.12
9-19L	.06	.03	FIN-15	.03	.06
9-32L	.07	.12	FIN-16	.01	.01
9-38L	.06	.10	FIN-17	0	.04
9-44L	.03	.07	FIN-18	.01	.04
9-70L	.08	.12	FIN-19	.06	.07
9-90L	.01	.04	FIN-20	.03	.06
9-95L	.08	0	FIN-21	.11	.12
2S-60U	.15	.18	FIN-22	.06	.07
2S-60L	.06	.07	FIN-23	.04	.06
5S-60U	.06	.07	FIN-24	.03	.03
5S-60L	.04	.07	FIN-25	.17	.18
8S-60U	.14	.16	FIN-26	.13	.15
8S-60L	.04	.07	FIN-27	.07	.09
10-32U	.03	.03	FIN-28	.07	.09



TABLE 8. - EFFECT OF ELERUDDER DEFLECTION ON THE PRESSURE COEFFICIENTS OVER THE TAIL, CLEAN CONDITION;  $\beta, 0^\circ$ . (a)  $\alpha, 0^\circ$ .

ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$	ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$
1-0C	.27	.28	.31	3-1.25U	.36	.36	.32
1-1.25U	.49	.47	.45	3-8U	.05	.04	.03
1-2.5U	.38	.36	.34	3-14U	- 0	.03	.04
1-5U	.27	.26	.23	3-19U	.04	.04	.07
1-8U	.19	.18	.16	3-32U	.05	.05	.07
1-14U	.14	.14	.11	3-60U	.05	.08	.05
1-19U	.08	.07	.04	3-70U	.01	.01	0
1-32U	.04	.04	.01	3-95U	.07	.07	.07
1-70U	.11	.11	.12	3-1.25L	.30	.27	.23
1-80U	.01	.01	.03	3-2.5L	.34	.32	.30
1-90U	0	.01	.01	3-5L	.38	.36	.34
1-95U	.07	.07	.07	3-8L	.27	.27	.24
1-2.5L	.38	.38	.34	3-14L	.24	.23	.23
1-5L	.34	.34	.31	3-32L	.20	.20	.20
1-14L	.23	.23	.22	3-38L	.22	.22	.20
1-19L	.22	.22	.20	3-60L	.18	.18	.16
1-32L	.14	.14	.14	3-80L	.04	.04	.04
1-38L	.19	.19	.18	3-95L	.08	.08	.08
1-60L	.15	.15	.15	4-0C	.53	.54	.55
1-70L	.11	.03	.11	4-1.25U	.32	.31	.30
1-80L	.05	.05	.05	4-2.5U	.22	.20	.18
2-1.25U	.34	.24	.30	4-14U	.04	.05	.07
2-2.5U	.27	.24	.22	4-19U	.05	.07	.08
2-5U	.15	.14	.11	4-32U	.07	.08	.09
2-32U	.07	.03	.04	4-38U	.11	.11	.11
2-38U	.09	.11	.12	4-60U	.12	.14	.14
2-44U	.04	.04	.05	4-70U	.01	.01	.01
2-70U	.03	.03	0	4-90U	.03	.03	.03
2-80U	00	.14	0	4-95U	.08	.08	.08
2-95U	.08	.05	.08	4-100C	.16	.16	.16
2-100C	.12	.12	.12	4-2.5L	.30	.28	.26
2-1.25L	.36	.35	.31	4-5L	.28	.27	.26
2-2.5L	.38	.36	.34	4-8L	.22	.20	.20
2-5L	.39	.38	.35	4-14L	.30	.30	.28
2-14L	.26	.26	.26	4-19L	.27	.26	.38
2-32L	.20	.20	.20	4-32L	.19	.19	.19
2-38L	.22	.22	.22	4-38L	.23	.23	.23
2-44L	.20	.20	.20	4-44L	.20	.20	.20
2-70L	.07	.07	.07	4-60L	.14	.14	.14
2-95L	.08	.08	.08	4-80L	.03	.03	.03



TABLE 8. - CONTINUED  
(a) - Continued

ORIFICE	$\delta_e = .20$	$\delta_e = .16$	$\delta_e = .12$	ORIFICE	$\delta_e = .20$	$\delta_e = .16$	$\delta_e = .12$
1-0C	.31	.35	.36	3-1.25U	.31	.30	.27
1-1.25U	.43	.43	.41	3-8U	.01	0	.03
1-2.5U	.34	.32	.31	3-14U	.04	.07	.08
1-5U	.23	.22	.20	3-19U	.07	.08	.11
1-8U	.15	.14	.12	3-19U	.08	.09	.08
1-14J	.09	.09	.08	3-32U	.07	.07	.06
1-19U	.04	.03	.01	3-60U	.01	.03	.04
1-32U	.01	0	.03	3-70U	.05	.05	.05
1-70U	.12	.12	.13	3-95U	.22	.19	.17
1-80U	.03	.04	.05	3-1.25L	.28	.27	.25
1-90U	.01	.03	.04	3-2.5L	.32	.31	.31
1-95U	.07	.07	.07	3-5L	.24	.23	.21
1-2.5L	.34	.34	.32	3-8L	.23	.22	.21
1-5L	.31	.31	.29	3-14L	.19	.19	.19
1-14L	.22	.22	.20	3-32L	.22	.20	.20
1-19L	.20	.20	.20	3-38L	.18	.18	.17
1-32L	.14	.01	.13	3-60L	.04	.05	.04
1-38L	.18	.18	.17	3-80L	.08	.08	.08
1-60L	.15	.15	.16	3-95L	.58	.59	.60
1-60L	.12	.12	.12	4-0C	.27	.26	.21
1-70L	.05	.05	.07	4-1.25U	.16	.15	.12
1-80L	.27	.26	.23	4-2.5U	.08	.09	.11
2-1.25U	.20	.19	.17	4-14U	.09	.09	.11
2-2.5U	.09	.08	.07	4-19U	.11	.11	.12
2-5U	.05	.07	.01	4-32U	.12	.12	.15
2-32U	.14	.15	.17	4-38U	.15	.15	.16
2-38U	.07	.08	.09	4-60U	.01	0	0
2-44U	.01	.03	.04	4-70U	.03	.03	.03
2-70U	.01	.01	.03	4-90U	.08	.08	.07
2-80U	.08	.08	.07	4-95U	.16	.16	.16
2-95U	.12	.11	.11	4-100C	.24	.23	.15
2-100C	.30	.27	.25	4-2.5L	.24	.24	.23
2-1.25L	.34	.31	.24	4-5L	.20	.19	.17
2-2.5L	.35	.34	.32	4-8L	.28	.27	.27
2-5L	.24	.24	.24	4-14L	.24	.26	.24
2-14L	.20	.20	.20	4-19L	.18	.19	.17
2-32L	.20	.20	.20	4-32L	.22	.22	.21
2-38L	.20	.19	.20	4-38L	.19	.19	.14
2-44L	.07	.07	.07	4-44L	.14	.14	.13
2-70L	.08	.08	.05	4-60L	.03	.03	.03
2-95L				4-80L			



TABLE 8. - CONTINUED  
(a) - Continued

ORIFICE	$\delta_o = .8$	$\delta_o = .4$	$\delta_o = 0$	ORIFICE	$\delta_o = .8$	$\delta_o = .4$	$\delta_o = 0$
1-0C	.28	.36	.39	3-1.25U	.24	.21	.19
1-1.25U	.40	.39	.36	3-8U	.04	.05	.07
1-2.5U	.23	.28	.27	3-14U	.09	.09	.12
1-5U	.14	.17	.16	3-19U	.12	.12	.13
1-8U	.08	.09	.08	3-32U	.12	.13	.15
1-14J	.07	.05	.04	3-60U	.09	.09	.11
1-19U	0	.01	.03	3-70U	.05	.05	.07
1-32U	.04	.05	.07	3-95U	.04	.05	.04
1-70U	.13	.15	.15	3-1.25L	.15	.12	.09
1-80U	.05	.07	.08	3-2.5L	.24	.21	.20
1-90U	.04	.04	.08	3-5L	.29	.28	.27
1-95U	.05	.04	.04	3-8L	.21	.20	.20
1-2.5L	.31	.31	.28	3-14L	.21	.20	.20
1-5L	.28	.28	.27	3-32L	.19	.19	.19
1-14L	.20	.20	.20	3-38L	.20	.20	.20
1-19L	.20	.20	.20	3-60L	.17	.17	.17
1-32L	.13	.12	.12	3-80L	.05	.04	.05
1-38L	.17	.17	.17	3-95L	.08	.08	.07
1-60L	.15	.16	.16	4-0C	.60	.56	.61
1-70L	.11	.12	.13	4-1.25U	.20	.19	.15
1-80L	.07	.05	.08	4-2.5U	.09	.08	.05
2-1.25U	.20	.33	.24	4-14U	.12	.13	.15
2-2.5U	.15	.13	.09	4-19U	.13	.13	.16
2-5U	.04	.03	0	4-32U	.09	.13	.15
2-32U	.09	.11	.11	4-38U	.16	.11	.12
2-38U	.17	.19	.20	4-60U	.17	.17	.19
2-44U	.11	.04	.09	4-70U	.01	.01	.03
2-70U	.04	.07	.08	4-90U	.03	.03	.01
2-80U	.04	.04	.05	4-95U	.07	.07	.05
2-95U	.07	.07	.05	4-100C	.15	.16	.11
2-100C	.11	.11	.09	4-2.5L	.19	.17	.12
2-1.25L	.23	.21	.19	4-5L	.21	.20	.14
2-2.5L	.28	.27	.24	4-8L	.17	.16	.16
2-5L	.32	.31	.29	4-14L	.27	.25	.25
2-14L	.24	.24	.24	4-19L	.24	.24	.23
2-32L	.20	.19	.20	4-32L	.17	.17	.17
2-38L	.20	.20	.20	4-38L	.21	.21	.17
2-44L	.20	.19	.19	4-44L	.19	.19	.14
2-70L	.08	.08	.08	4-60L	.15	.13	.13
2-95L	.07	.07	.05	4-80L	.04	.03	.03



TABLE 8. -- CONTINUED  
(a) -- Continued

ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$
1-0C	.39	.40	.40	3-1.25U	.16	.15	.09
1-1.25U	.35	.35	.31	3-8U	.08	.11	.13
1-2.5U	.25	.25	.21	3-14U	.13	.15	.17
1-5U	.15	.15	.12	3-19U	.15	.17	.19
1-8U	.08	.07	.05	3-32U	.16	.17	.19
1-14J	.03	.01	0	3-60U	.12	.12	.13
1-19U	.04	.05	.07	3-70U	.08	.09	.11
1-32U	.08	.09	.11	3-95U	.04	.04	.03
1-70U	.16	.17	.17	3-1.25L	.08	.07	.03
1-80U	.09	.11	.11	3-2.5L	.19	.17	.15
1-90U	.05	.07	.08	3-5L	.25	.24	.23
1-95U	.03	.01	0	3-8L	.19	.19	.17
1-2.5L	.27	.28	.25	3-8L	.20	.19	.19
1-5L	.27	.27	.24	3-14L	.19	.19	.19
1-14L	.19	.19	.19	3-32L	.20	.20	.20
1-19L	.19	.19	.19	3-38L	.17	.17	.19
1-32L	.12	.12	.12	3-60L	.05	.05	.07
1-38L	.17	.17	.17	3-80L	.07	.07	.04
1-60L	.16	.16	.16	3-95L	.61	.61	.61
1-70L	.13	.12	.15	4-0C	.13	.11	.08
1-80L	.08	.09	.09	4-1.25U	.01	.03	.01
2-1.25U	.24	.24	.23	4-2.5U	.16	.17	.20
2-2.5U	.08	.07	.03	4-14U	.16	.17	.19
2-5U	.01	.03	.05	4-19U	.16	.17	.19
2-32U	.11	.12	.15	4-32U	.16	.17	.17
2-38U	.21	.23	.24	4-38U	.19	.20	.20
2-44U	.09	.09	.11	4-60U	.03	.04	.04
2-70U	.11	.12	.13	4-70U	.01	0	0
2-80U	.05	.07	.07	4-90U	.07	.07	.05
2-95U	.05	.07	.04	4-95U	.15	.15	.15
2-100C	.09	.09	.08	4-100C	.15	.13	.11
2-1.25L	.16	.16	.12	4-2.5L	.19	.17	.16
2-2.5L	.24	.24	.20	4-5L	.15	.15	.13
2-5L	.28	.28	.25	4-8L	.25	.24	.24
2-14L	.23	.23	.23	4-14L	.23	.23	.23
2-32L	.19	.20	.19	4-19L	.17	.16	.16
2-38L	.20	.20	.20	4-32L	.21	.20	.21
2-44L	.19	.20	.19	4-38L	.19	.19	.19
2-70L	.08	.08	.09	4-44L	.15	.15	.15
2-95L	.05	.04	.04	4-60L	.04	.04	.04
				4-80L			



TABLE 8. -- CONTINUED  
(a) -- Continued

ORIFICE	$\delta_o = 16$	$\delta_o = 20$	$\delta_o = 24$	ORIFICE	$\delta_o = 16$	$\delta_o = 20$	$\delta_o = 24$
1-0C	.32	.52	.41	3-1.25U	.08	.05	.03
1-1.25U	.17	.29	.28	3-3U	.13	.16	.17
1-2.5U	.21	.20	.20	3-14U	.19	.20	.20
1-5U	.11	.09	.08	3-19U	.20	.21	.23
1-8U	.04	.03	.01	3-32U	.20	.21	.23
1-14J	.01	.03	.04	3-6CU	.11	.16	.17
1-19U	.08	.09	.11	3-70U	.12	.12	.13
1-32U	.13	.15	.16	3-95U	.03	.02	.03
1-70U	.19	.19	.20	3-1.25L	.01	0	.01
1-80U	.13	.15	.16	3-2.5L	.13	.12	.12
1-90U	.09	.11	.12	3-5L	.17	.20	.20
1-95U	.03	.04	.05	3-8L	.16	.15	.15
1-2.5L	.25	.24	.24	3-14L	.19	.19	.19
1-5L	.24	.24	.24	3-32L	.19	.19	.19
1-14L	.19	.19	.19	3-38L	.20	.20	.20
1-19L	.19	.19	.19	3-60L	.17	.21	.19
1-32L	.12	.12	.12	3-80L	.05	.07	.07
1-38L	.17	.17	.17	3-95L	.05	.05	.04
1-60L	.16	.17	.17	4-0C	.61	.63	.61
1-70L	.15	.16	.16	4-1.25U	.05	.03	.04
1-80L	.11	.11	.11	4-2.5U	.04	.05	.07
2-1.25U	.20	.17	.16	4-14U	.23	.25	.27
2-2.5U	.03	0	.12	4-19U	.20	.21	.17
2-5U	.07	.09	.11	4-32U	.19	.20	.21
2-32U	.16	.17	.19	4-38U	.20	.21	.21
2-38U	.25	.27	.29	4-60U	.21	.23	.23
2-44U	.12	.13	.15	4-70U	.04	.05	.05
2-70U	.16	.17	.19	4-90U	0	.01	.01
2-80U	.08	.09	.11	4-95U	.05	.04	.04
2-95U	.04	.03	.03	4-100C	.15	.13	.13
2-100C	.08	.07	.07	4-2.5L	.09	.08	.08
2-1.25L	.11	.09	.08	4-5L	.12	.15	.13
2-2.5L	.20	.19	.17	4-8L	.09	.12	.12
2-5L	.25	.25	.24	4-14L	.18	.23	.23
2-14L	.23	.21	.21	4-19L	.21	.21	.21
2-32L	.20	.20	.19	4-32L	.12	.17	.17
2-38L	.20	.20	.20	4-38L	.21	.21	.21
2-44L	.20	.20	.19	4-44L	.19	.19	.19
2-70L	.09	.11	.11	4-60L	.15	.15	.15
2-95L	.03	.03	.01	4-80L	.04	.04	.04

TABLE 8.- CONTINUED  
(a)- Continued

ORIFICE	$\delta_e=-32$	$\delta_e=-28$	$\delta_e=-24$	ORIFICE	$\delta_e=-32$	$\delta_e=-28$	$\delta_e=-24$
4-90L	.04	.04	.04	6-8L	-.19	-.18	-.18
4-95L	.08	.08	.08	6-14L	-.22	-.22	-.20
5-0C	.61	.59	.62	6-19L	-.20	-.19	-.19
5-1.25U	.24	.24	.22	6-38L	-.19	-.19	-.19
5-8U	- 0	- 0	- .01	6-44L	-.19	-.19	-.16
5-14U	-.05	-.05	-.07	6-60L	-.15	-.15	-.14
5-19U	-.11	-.11	-.12	6-70L	-.05	-.05	-.05
5-38U	-.09	-.09	-.11	7-0C	-.69	-.69	-.69
5-44U	-.07	-.04	-.08	7-5U	-.04	-.05	-.05
5-60U	-.09	-.09	-.11	7-8U	-.05	-.05	-.07
5-70U	-.03	-.03	-.04	7-14U	-.08	-.09	-.09
5-80U	-.03	-.03	-.03	7-19U	-.09	-.11	-.12
5-90U	.03	.03	.03	7-38U	-.14	-.14	-.15
5-95U	.05	.05	.05	7-60U	-.09	-.09	-.09
5-1.25L	-.20	-.20	-.17	7-90U	.01	.01	.01
5-2.5L	-.22	-.22	-.20	7-95U	.08	.08	.08
5-5L	-.27	-.27	-.26	7-1.25L	-.08	-.08	-.07
5-8L	-.20	-.20	-.16	7-2.5L	-.19	-.18	-.16
5-14L	-.19	-.20	-.19	7-5L	-.22	-.22	-.22
5-19L	-.23	-.23	-.23	7-8L	-.20	-.20	-.20
5-38L	-.20	-.20	-.20	7-14L	-.19	-.18	-.18
5-44L	-.18	-.18	-.18	7-19L	-.20	-.20	-.20
5-60L	-.18	-.18	-.18	7-32L	-.18	-.18	-.18
5-70L	-.05	-.04	-.05	7-44L	-.15	-.15	-.16
5-90L	.04	.04	.04	7-60L	-.12	-.12	-.12
5-95L	.09	.09	.09	7-70L	-.08	-.08	-.08
6-0C	.59	.59	.61	7-90L	-.05	-.05	-.05
6-5U	-.03	-.03	-.04	7-95L	-.09	-.09	-.11
6-14U	-.08	-.08	-.09	8-0C	.69	.69	.69
6-19U	-.03	-.03	-.03	8-1.25U	.14	.12	.11
6-32U	-.12	-.12	-.14	8-2.5U	-.03	-.03	-.04
6-44U	-.11	-.11	-.12	8-5U	-.05	-.07	-.07
6-60U	-.09	-.09	-.09	8-8U	-.08	-.08	-.08
6-70U	-.09	-.09	-.09	8-14U	-.09	-.09	-.11
6-80U	-.03	-.03	-.03	8-19U	-.11	-.11	-.12
6-90U	-.03	-.03	-.03	8-60U	-.03	-.03	-.03
6-100C	.16	.16	.16	8-80U	-.01	-.01	-.03
6-1.25L	-.11	-.11	-.09	8-90U	.03	.04	.03
6-2.5L	-.24	-.24	-.22	8-95U	-.09	-.09	-.09
6-5L	-.24	-.24	-.22	8-100C	.16	.16	.16



TABLE 8.- CONTINUED  
(a)- Continued

ORIFICE	$\delta_e=-20$	$\delta_e=-16$	$\delta_e=-12$	ORIFICE	$\delta_e=-20$	$\delta_e=-16$	$\delta_e=-12$
4-90L	.04	.04	.04	6-8L	-.16	-.16	.15
4-95L	.08	.08	.08	6-14L	-.20	-.20	.19
5-0C	.64	.65	.66	6-19L	-.19	-.19	.18
5-1.25U	.19	.18	.14	6-38L	-.19	-.19	.19
5-8U	-.03	-.04	-.05	6-44L	-.19	-.19	.19
5-14U	-.08	-.09	-.11	6-60L	-.15	-.15	.15
5-19U	-.14	-.14	-.16	6-70L	-.05	-.05	.05
5-38U	-.12	-.12	-.14	7-0C	.70	.70	.70
5-44U	-.08	-.09	-.09	7-5U	-.08	-.08	.11
5-60U	-.11	-.12	-.12	7-8U	-.08	-.08	.09
5-70U	-.04	-.05	-.05	7-14U	-.11	-.11	.12
5-80U	-.04	-.04	-.04	7-19U	-.12	-.12	.14
5-90U	.03	.03	.01	7-38U	-.15	-.15	.16
5-95U	.05	.05	.04	7-60U	-.09	-.11	.11
5-1.25L	-.15	-.14	-.09	7-90U	0	.01	0
5-2.5L	-.18	-.18	-.14	7-95U	.08	.08	.07
5-5L	-.24	-.24	-.22	7-1.25L	-.04	-.03	0
5-8L	-.19	-.19	-.18	7-2.5L	-.15	-.15	.12
5-14L	-.19	-.19	-.18	7-5L	-.20	-.20	.19
5-19L	-.22	-.22	-.22	7-8L	-.19	-.19	.18
5-38L	-.20	-.20	-.20	7-14L	-.18	-.18	.16
5-44L	-.18	-.18	-.18	7-19L	-.19	-.19	.19
5-60L	-.18	-.18	-.18	7-32L	-.18	-.18	.16
5-70L	-.04	-.05	-.04	7-44L	-.15	-.16	.15
5-90L	.04	.04	.04	7-60L	-.12	-.12	.12
5-95L	.08	.08	.08	7-70L	-.08	-.08	.08
6-0C	.48	.64	.65	7-90L	-.05	-.05	.04
6-5U	-.05	-.07	-.09	7-95L	.09	.09	.09
6-14U	-.11	-.11	-.14	8-0C	.69	.69	.69
6-19U	-.03	-.03	-.03	8-1.25U	.09	.08	.05
6-32U	-.15	-.15	-.16	8-2.5U	-.07	-.08	.09
6-44U	-.12	-.14	-.15	8-5U	-.08	-.08	.11
6-60U	-.11	-.11	-.12	8-8U	-.09	-.11	.12
6-70U	-.11	-.11	-.12	8-14U	-.12	-.12	.14
6-80U	-.03	-.03	-.04	8-19U	-.12	-.12	.14
6-90U	-.03	-.01	-.01	8-60U	-.04	-.04	.05
6-100C	.15	.15	.15	8-80U	-.03	-.03	.03
6-1.25L	-.07	-.05	-.03	8-90U	.03	.03	.03
6-2.5L	-.22	-.20	-.19	8-95U	-.09	-.09	.09
6-5L	-.22	-.22	-.20	8-100C	.16	.16	.16

TABLE 8.- CONTINUED  
(a)- Continued

ORIFICE	$\delta_e=-8$	$\delta_e=-4$	$\delta_e=0$	ORIFICE	$\delta_e=-8$	$\delta_e=-4$	$\delta_e=0$
4-90L	.04	.03	.03	6-8L	-.14	-.14	.14
4-95L	.08	.08	.07	6-14L	-.19	-.18	.18
5-0C	.68	.68	.68	6-19L	-.18	-.18	.18
5-1.25U	.12	.09	.08	6-38L	-.19	-.18	.19
5-8U	-.08	-.09	-.09	6-44L	-.19	-.18	.19
5-14U	-.12	-.14	-.14	6-60L	-.15	-.15	.16
5-19U	-.18	-.18	-.19	6-70L	-.05	-.05	.05
5-38U	-.15	-.14	-.15	7-0C	.70	.70	.70
5-44U	-.11	-.11	-.12	7-5U	-.12	-.14	.14
5-60U	-.14	-.14	-.14	7-8U	-.12	-.12	.12
5-70U	-.07	-.07	-.07	7-14U	-.14	-.15	.15
5-80U	-.05	-.05	-.05	7-19U	-.15	-.16	.16
5-90U	0	.01	.01	7-38U	-.16	-.18	.18
5-95U	.04	.04	.04	7-60U	-.12	-.12	.12
5-1.25L	-.08	-.05	-.05	7-90U	0	0	0
5-2.5L	-.12	-.11	-.11	7-95U	.05	.07	.07
5-5L	-.20	-.19	-.19	7-1.25L	.01	.04	.04
5-8L	-.16	-.16	-.16	7-2.5L	-.11	-.09	.09
5-14L	-.18	-.16	-.16	7-5L	-.18	-.16	.16
5-19L	-.20	-.20	-.20	7-8L	-.18	-.16	.18
5-38L	-.20	-.20	-.20	7-14L	-.16	-.16	.16
5-44L	-.18	-.18	-.18	7-19L	-.19	-.18	.18
5-60L	-.18	-.18	-.18	7-32L	-.16	-.16	.16
5-70L	-.04	-.04	-.04	7-44L	-.15	-.15	.15
5-90L	.04	.04	.04	7-60L	-.14	-.12	.14
5-95L	.08	.08	.08	7-70L	-.08	-.08	.08
6-0C	.65	.66	.66	7-90L	-.04	-.04	.04
6-5U	-.11	-.12	-.14	7-95L	.09	.09	.09
6-14U	-.14	-.14	-.15	8-0C	.69	.69	.69
6-19U	-.03	-.03	-.03	8-1.25U	.04	.01	.01
6-32U	-.16	-.12	-.14	8-2.5U	-.11	-.12	.12
6-44U	-.16	-.11	-.12	8-5U	-.12	-.12	.12
6-60U	-.12	-.12	-.14	8-8U	-.14	-.14	.15
6-70U	-.12	-.12	-.12	8-14U	-.15	-.15	.15
6-80U	-.04	-.04	-.04	8-19U	-.15	-.15	.16
6-90U	-.03	-.03	-.03	8-60U	-.05	-.03	.03
6-100C	.15	.15	.15	8-80U	-.03	-.03	.03
6-1.25L	0	.03	.03	8-90U	.03	.03	.03
6-2.5L	-.16	-.15	-.15	8-95U	-.09	-.09	.11
6-5L	-.19	-.16	-.18	8-100C	.16	.16	.16



TABLE 8.- CONTINUED  
(a)- Continued

ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$	ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$
4-90L	.03	.01	.03	6-8L	-.14	-.12	-.11
4-95L	.07	.07	.07	6-14L	-.18	-.17	-.16
5-0C	.69	.68	.70	6-19L	-.18	-.17	-.16
5-1.25U	.07	.04	0	6-38L	-.19	-.19	-.19
5-8U	-.11	-.12	-.15	6-44L	-.19	-.19	-.19
5-14U	-.15	-.16	-.19	6-60L	-.16	-.16	-.16
5-19U	-.19	-.21	-.23	6-70L	-.05	-.05	-.05
5-38U	-.16	-.16	-.18	7-0C	.70	.69	.68
5-44U	-.12	-.13	-.15	7-5U	-.15	-.16	-.19
5-60U	-.14	-.15	-.16	7-8U	-.14	-.15	-.16
5-70U	-.07	-.08	-.09	7-14U	-.15	-.16	-.18
5-80U	-.05	-.07	-.07	7-19U	-.16	-.17	-.19
5-90U	.01	0	0	7-38U	-.19	-.19	-.20
5-95U	.04	.04	.04	7-60U	-.14	-.13	-.15
5-1.25L	-.04	-.01	.03	7-90U	0	0	0
5-2.5L	-.09	-.08	.05	7-95U	.07	.07	.07
5-5L	-.19	-.19	-.16	7+1.25L	.04	.07	.09
5-8L	-.15	-.15	-.14	7-2.5L	-.09	-.07	.05
5-14L	-.16	-.16	-.15	7-5L	-.16	-.15	-.14
5-19L	-.20	-.20	-.19	7-8L	-.16	-.16	-.15
5-38L	-.20	-.20	-.19	7-14L	-.16	-.16	-.16
5-44L	-.18	-.17	-.18	7-19L	-.19	-.17	-.19
5-60L	-.18	-.19	-.18	7-32L	-.16	-.16	-.18
5-70L	-.04	-.04	.05	7-44L	-.15	-.15	-.16
5-90L	.04	.04	.04	7-60L	-.12	-.13	-.14
5-95L	.08	.08	.07	7-70L	-.08	-.08	-.08
6-0C	.68	.67	.68	7-90L	.04	.04	.04
6-5U	-.14	-.16	-.19	7-95L	.09	.09	.09
6-14U	-.16	-.16	-.19	8-0C	.70	.68	.69
6-19U	-.03	-.03	.03	8-1.25U	0	.01	.05
6-32U	-.14	-.15	-.16	8-2.5U	-.14	-.16	-.19
6-44U	-.12	-.13	-.15	8-5U	-.14	-.16	-.18
6-60U	-.14	-.15	-.15	8-8U	-.15	-.16	-.18
6-70U	-.12	-.12	-.15	8-14U	-.16	-.16	-.18
6-80U	-.05	-.05	.05	8-19U	-.16	-.17	-.19
6-90U	.03	.01	.03	8-60U	-.03	-.04	.05
6-100C	.15	.15	.15	8-80U	-.03	-.03	.03
6-1.25L	.04	.04	.08	8-90U	.03	.03	.01
6-2.5L	-.14	-.13	.09	8-95U	-.11	-.11	-.11
6-5L	-.16	-.16	-.14	8-100C	.16	.16	.16

TABLE 8.- CONTINUED  
(a)- Continued

ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$	ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$
4-90L	.01	.01	.01	6-8L	-.11	-.09	-.09
4-95L	.05	.05	.05	6-14L	-.16	-.16	-.16
5-0C	.70	.70	.72	6-19L	-.16	-.16	-.16
5-1.25U	-.03	-.04	-.07	6-38L	-.19	-.19	-.19
5-8U	-.16	-.18	-.19	6-44L	-.19	-.19	-.19
5-14U	-.19	-.20	-.22	6-60L	-.16	-.16	-.16
5-19U	-.24	-.26	-.26	6-70L	-.05	-.05	-.05
5-38U	-.19	-.20	-.20	7-0C	-.69	-.68	-.68
5-44U	-.16	-.16	-.18	7-5U	-.20	-.22	-.23
5-60U	-.16	-.18	-.18	7-8U	-.18	-.19	-.20
5-70U	-.09	-.09	-.11	7-14U	-.19	-.19	-.20
5-80U	-.08	-.08	-.08	7-19U	-.20	-.20	-.22
5-90U	0	0	.01	7-38U	-.20	-.22	-.22
5-95U	.03	.03	.03	7-60U	-.15	-.15	-.16
5-1.25L	.03	.04	.07	7-90U	0	0	.01
5-2.5L	-.05	-.04	-.03	7-95U	.07	.07	.05
5-5L	-.15	-.15	-.14	7-1.25L	.11	.11	.12
5-8L	-.12	-.12	-.12	7-2.5L	-.04	-.03	-.03
5-14L	-.15	-.15	-.14	7-5L	-.12	-.12	-.11
5-19L	-.19	-.19	-.19	7-8L	-.15	-.15	-.14
5-38L	-.20	-.20	-.20	7-14L	-.18	-.18	-.18
5-44L	-.18	-.18	-.18	7-19L	-.18	-.19	-.19
5-60L	-.19	-.19	-.19	7-32L	-.18	-.18	-.18
5-70L	-.04	-.05	-.05	7-44L	-.16	-.16	-.16
5-90L	.04	.03	.03	7-60L	-.14	-.14	-.14
5-95L	.08	.07	.07	7-70L	-.08	-.08	-.08
6-0C	.69	.68	.69	7-90L	-.04	-.04	-.04
6-5U	-.20	-.20	-.23	7-95L	.08	.08	.08
6-14U	-.19	-.20	-.22	8-0C	.69	.68	.68
6-19U	-.03	-.04	-.04	8-1.25U	-.07	-.08	-.09
6-32U	-.16	-.18	.08	8-2.5U	-.20	-.20	-.23
6-44U	-.16	-.16	.06	8-5U	-.19	-.20	-.20
6-60U	-.16	-.16	-.16	8-8U	-.19	-.19	-.20
6-70U	-.15	-.15	-.16	8-14U	-.19	-.19	-.20
6-80U	-.07	-.07	-.07	8-19U	-.19	-.19	-.20
6-90U	-.01	-.01	-.03	8-60U	-.05	-.07	-.05
6-100C	.14	.14	.14	8-80U	-.04	-.04	-.04
6-1.25L	.11	.11	.12	8-90U	.01	.01	.01
6-2.5L	-.08	-.08	-.07	8-95U	-.11	-.11	-.12
6-5L	-.14	-.14	-.12	8-100C	.16	.16	.15



TABLE 8. - CONTINUED  
(a) - Continued

ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$	ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$
8-1.25L	- .08	- .08	- .05	11-32U	- .11	- .11	- .09
8-2.5L	- .15	- .14	- .12	12-32U	- .07	- .07	- .05
8-5L	- .19	- .19	- .17	TIP-32C	- .07	- .07	- .05
8-8L	- .21	- .21	- .17	11-32L	- .10	- .10	- .08
8-14L	- .18	- .18	- .16	10-32L	- .12	- .12	- .11
8-19L	- .18	- .18	- .16	10-70U	- .05	- .05	- .04
8-32L	- .16	- .16	- .15	11-70U	- .04	- .04	- .03
8-38L	- .16	- .16	- .15	12-70U	- .03	- .03	- .01
8-44L	- .15	- .15	- .15	TIP-70C	- .03	- .03	- .01
8-60L	- .08	- .08	- .05	12-70L	- .03	- .03	- .01
8-95L	.10	.10	.10	11-70L	- .03	- .01	0
9-0C	.66	.67	.67	10-70L	- .03	- .03	- .01
9-1.25U	.12	.11	.12	FIN-1	- .03	- .03	- .01
9-2.5U	- .01	- .03	- .01	FIN-2	- .03	- .03	- .01
9-5U	- .08	- .10	- .08	FIN-3	0	0	- .01
9-14U	- .15	- .15	- .13	FIN-4	- .07	- .07	- .07
9-19U	- .15	- .26	- .13	FIN-5	- .03	- .01	- .01
9-32U	- .15	- .15	- .13	FIN-6	- .03	- .01	- .01
9-44U	- .10	- .10	- .09	FIN-7	- .21	- .21	- .19
9-70U	- .04	- .04	- .03	FIN-8	- .07	- .07	- .05
9-80U	0	0	.01	FIN-9	- .10	- .11	- .08
9-100C	.14	.14	.15	FIN-10	- .07	- .07	- .05
9-1.25L	- .10	- .08	- .07	FIN-11	- .07	- .07	- .05
9-5L	- .16	- .16	- .15	FIN-12	- .05	- .05	- .04
9-8L	- .19	- .19	- .17	FIN-13	- .10	- .10	- .08
9-14L	- .18	- .18	- .16	FIN-14	- .16	- .16	- .15
9-19L	- .18	- .16	- .15	FIN-15	- .08	- .07	- .07
9-32L	- .18	- .18	- .16	FIN-16	- .05	- .05	- .04
9-38L	- .14	- .15	- .12	FIN-17	- .03	- .03	- .01
9-44L	- .10	- .10	- .08	FIN-18	- .04	- .04	- .03
9-70L	- .04	- .04	- .03	FIN-19	- .07	- .07	- .04
9-90L	.07	.07	.08	FIN-20	- .04	- .04	- .03
9-95L	.12	.12	.13	FIN-21	- .14	- .14	- .11
2S-60U	- .12	- .12	- .11	FIN-22	- .07	- .07	- .08
2S-60L	- .11	- .12	- .09	FIN-23	- .05	- .07	- .04
5S-60U	- .07	- .07	- .05	FIN-24	- .03	- .03	- .01
5S-60L	- .11	- .11	- .09	FIN-25	- .21	- .21	- .19
8S-60U	- .11	- .10	- .09	FIN-26	- .14	- .14	- .12
8S-60L	- .11	- .10	- .09	FIN-27	- .10	- .10	- .07
10-32U	- .03	- .03	- .01	FIN-28	- .08	- .08	- .07

TABLE 8. - CONTINUED  
(a) - Continued

ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$	ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$
8-1.25L	- .05	- .04	- .01	11-32U	- .11	- .11	- .11
8-2.5L	- .12	- .11	- .10	12-32U	- .07	- .07	- .07
8-5L	- .18	- .16	- .16	TIP-32C	- .07	- .07	- .07
8-8L	- .19	- .18	- .18	11-32L	- .10	- .10	- .10
8-14L	- .16	- .16	- .16	10-32L	- .12	- .12	- .12
8-19L	- .18	- .16	- .18	10-70U	- .05	- .05	- .05
8-32L	- .15	- .15	- .15	11-70U	- .04	- .04	- .04
8-38L	- .15	- .15	- .15	12-70U	- .03	- .03	- .03
8-44L	- .15	- .15	- .15	TIP-70C	- .03	- .03	- .04
8-60L	- .08	- .08	- .08	12-70L	- .03	- .03	- .03
8-95L	.10	.10	.10	11-70L	- .01	- .03	- .03
9-0C	.67	.68	.68	10-70L	- .04	- .04	- .04
9-1.25U	.08	.07	.05	FIN-1	- .03	- .03	- .03
9-2.5U	- .04	- .05	- .08	FIN-2	- .03	- .03	- .03
9-5U	- .11	- .11	- .14	FIN-3	0	0	0
9-14U	- .16	- .16	- .18	FIN-4	- .07	- .08	- .08
9-19U	- .16	- .16	- .18	FIN-5	- .01	- .03	- .03
9-32U	- .16	- .16	- .16	FIN-6	- .03	- .03	- .03
9-44U	- .11	- .11	- .11	FIN-7	- .19	- .18	- .18
9-70U	- .04	- .04	- .03	FIN-8	- .07	- .07	- .08
9-80U	0	0	0	FIN-9	- .10	- .10	- .11
9-100C	.14	.14	.14	FIN-10	- .07	- .07	- .07
9-1.25L	- .07	- .05	- .03	FIN-11	- .07	- .07	- .07
9-5L	- .15	- .15	- .14	FIN-12	- .05	- .05	- .05
9-8L	- .18	- .18	- .16	FIN-13	- .10	- .08	- .07
9-14L	- .18	- .18	- .16	FIN-14	- .16	- .16	- .16
9-19L	- .16	- .16	- .16	FIN-15	- .07	- .07	- .07
9-32L	- .18	- .18	- .18	FIN-16	- .05	- .05	- .05
9-38L	- .14	- .14	- .14	FIN-17	- .03	- .03	- .03
9-44L	- .10	- .10	- .05	FIN-18	- .04	- .04	- .04
9-70L	- .04	- .04	- .04	FIN-19	- .05	- .05	- .05
9-90L	.07	.07	.05	FIN-20	- .04	- .04	- .04
9-95L	.12	.12	.12	FIN-21	- .14	- .12	- .12
2S-60U	- .12	- .14	- .14	FIN-22	- .07	- .07	- .07
2S-60L	- .11	- .12	- .12	FIN-23	- .05	- .05	- .14
5S-60U	- .07	- .08	- .07	FIN-24	- .03	- .03	- .03
5S-60L	- .11	- .12	- .12	FIN-25	- .21	- .15	- .19
8S-60U	- .11	- .11	- .12	FIN-26	- .14	- .14	- .14
8S-60L	- .10	- .11	- .11	FIN-27	- .08	- .08	- .08
10-32U	- .03	- .03	- .03	FIN-28	- .08	- .08	- .08



TABLE 8. -- CONTINUED  
(a) -- Continued

ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$	ORIFICE	$\delta_e = +8$	$\delta_e = 4$	$\delta_e = 0$
8-1.25L	0	.01	.03	11-32U	.11	.09	.09
8-2.5L	.08	.07	.07	12-32U	.07	.07	.07
8-5L	.15	.15	.14	TIP-32C	.07	.07	.07
8-8L	.19	.16	.16	11-32L	.09	.09	.09
8-14L	.16	.16	.16	10-32L	.12	.12	.12
8-19L	.16	.16	.16	10-70U	.07	.05	.07
8-32L	.15	.15	.16	11-70U	.05	.04	.05
8-38L	.15	.15	.16	12-70U	.04	.03	.04
8-44L	.15	.15	.16	TIP-70C	.03	.03	.03
8-60L	.08	.08	.08	12-70L	.04	.03	.04
8-95L	.09	.09	.08	11-70L	.03	.03	.03
9-0C	.68	.69	.69	10-70L	.04	.04	.05
9-1.25U	.04	.04	.01	FIN-1	.03	.03	.03
9-2.5U	.09	.09	.09	FIN-2	.03	.03	.03
9-5U	.14	.15	.16	FIN-3	0	0	0
9-14U	.19	.13	.20	FIN-4	.08	.08	.08
9-19U	.18	.18	.19	FIN-5	.03	.03	.01
9-32U	.18	.16	.18	FIN-6	.03	.03	.01
9-44U	.12	.11	.12	FIN-7	.18	.16	.16
9-70U	.03	.03	.03	FIN-8	.07	.08	.07
9-80U	0	0	.01	FIN-9	.09	.09	.09
9-100C	.14	.15	.14	FIN-10	.07	.07	.07
9-1.25L	.03	.01	0	FIN-11	.07	.07	.07
9-5L	.14	.12	.12	FIN-12	.05	.05	.05
9-8L	.16	.16	.16	FIN-13	.07	.07	.07
9-14L	.16	.16	.16	FIN-14	.15	.15	.15
9-19L	.16	.16	.16	FIN-15	.07	.07	.07
9-32L	.18	.18	.18	FIN-16	.05	.05	.05
9-38L	.14	.14	.14	FIN-17	.03	.01	.03
9-44L	.09	.09	.09	FIN-18	.04	.04	.04
9-70L	.05	.04	.05	FIN-19	.07	.04	.07
9-90L	.05	.05	.05	FIN-20	.04	.04	.04
9-95L	.12	.12	.11	FIN-21	.12	.12	.12
28-60U	.15	.15	.16	FIN-22	.20	.07	.07
28-60L	.12	.12	.12	FIN-23	.05	.05	.05
58-60U	.08	.08	.08	FIN-24	.03	.03	.03
58-60L	.12	.12	.12	FIN-25	.19	.19	.19
88-60U	.14	.14	.14	FIN-26	.14	.12	.12
88-60L	.11	.11	.11	FIN-27	.07	.08	.08
10-32U	.03	.03	.03	FIN-28	.08	.07	.08

TABLE 8. - CONTINUED  
(a) - Continued

ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$
8-1.25L	.04	.04	.08	11-32U	-	.09	.11
8-2.5L	.05	.04	.04	12-32U	-	.07	.08
8-5L	-	.14	.11	TIP-32C	-	.07	.08
8-8L	-	.16	.13	11-32L	-	.09	.09
8-14L	-	.16	.13	10-32L	-	.12	.12
8-19L	-	.16	.15	10-70U	-	.07	.07
8-32L	-	.16	.15	11-70U	-	.05	.05
8-38L	-	.16	.15	12-70U	-	.04	.04
8-44L	-	.16	.15	TIP-70C	-	.03	.03
8-60L	-	.08	.05	12-70L	-	.04	.03
8-95L	.08	.08	.09	11-70L	-	.03	.04
9-0C	.69	.69	.69	10-70L	-	.01	.05
9-1.25U	0	.01	.01	FIN-1	-	.03	.03
9-2.5U	-	.12	.13	FIN-2	-	.03	0
9-5U	-	.16	.17	FIN-3	0	-	0
9-14U	-	.20	.20	FIN-4	-	.08	.08
9-19U	-	.19	.19	FIN-5	-	.03	.01
9-32U	-	.18	.17	FIN-6	-	.03	.01
9-44U	-	.12	.12	FIN-7	-	.16	.16
9-70U	-	.03	.01	FIN-8	-	.07	.07
9-80U	-	.01	0	FIN-9	-	.09	.09
9-100C	.14	.14	.15	FIN-10	-	.07	.07
9-1.25L	0	.01	.04	FIN-11	-	.08	.07
9-5L	-	.12	.09	FIN-12	-	.05	.05
9-8L	-	.16	.13	FIN-13	-	.05	.07
9-14L	-	.16	.15	FIN-14	-	.15	.15
9-19L	-	.16	.15	FIN-15	-	.07	.07
9-32L	-	.18	.16	FIN-16	-	.05	.05
9-38L	-	.14	.12	FIN-17	-	.01	.01
9-44L	-	.09	.08	FIN-18	-	.03	.02
9-70L	-	.05	.04	FIN-19	-	.07	.07
9-90L	.05	.05	.07	FIN-20	-	.04	.04
9-95L	.11	.11	.12	FIN-21	-	.12	.12
2S-60U	-	.16	.17	FIN-22	-	.07	.07
2S-60L	-	.12	.12	FIN-23	-	.05	.05
5S-60U	-	.08	.07	FIN-24	-	.03	.03
5S-60L	-	.12	.12	FIN-25	-	.19	.19
8S-60U	-	.14	.13	FIN-26	-	.14	.14
8S-60L	-	.11	.11	FIN-27	-	.08	.08
10-32U	-	.03	.01	FIN-28	-	.08	.08



TABLE 8. - CONTINUED  
(a) - Concluded

ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$	ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$
8-1.25L	.08	.08	.10	11-32U	-.09	-.12	-.12
8-2.5L	-.01	-.01	-.01	12-32U	-.07	-.08	-.10
8-5L	-.09	-.11	-.11	TIP-32C	-.07	-.08	-.10
8-8L	-.13	-.14	-.14	11-32L	-.08	-.10	-.10
8-14L	-.13	-.15	-.14	10-32L	-.11	-.14	-.14
8-19L	-.15	-.16	-.15	10-70U	-.05	-.07	-.08
8-32L	-.15	-.16	-.15	11-70U	-.04	-.05	-.05
8-38L	-.15	-.16	-.15	12-70U	-.03	-.05	-.05
8-44L	-.15	-.16	-.15	TIP-70C	-.01	-.03	-.03
8-60L	-.07	-.08	-.10	12-70L	-.11	-.05	-.05
8-95L	.09	.08	.22	11-70L	-.03	-.04	-.04
9-0C	.69	.70	.70	10-70L	-.04	-.05	-.05
9-1.25U	.03	.05	.07	FIN-1	-.01	-.03	-.03
9-2.5U	.15	.18	.19	FIN-2	0	-.01	-.01
9-5U	.19	.21	.22	FIN-3	.03	0	.01
9-14U	.15	.19	.23	FIN-4	-.05	-.08	-.08
9-19U	.19	.22	.22	FIN-5	0	-.03	-.01
9-32U	.17	.21	.21	FIN-6	0	-.03	-.01
9-44U	.12	.14	.14	FIN-7	-.13	-.14	-.15
9-70U	.01	.03	.04	FIN-8	-.05	-.07	-.07
9-80U	0	.01	.01	FIN-9	-.08	-.10	-.10
9-100C	.15	.14	.14	FIN-10	-.05	-.08	-.07
9-1.25L	.05	.04	.05	FIN-11	-.05	-.08	-.08
9-5L	.08	.10	.10	FIN-12	-.04	-.05	-.05
9-8L	.13	.15	.14	FIN-13	-.04	-.05	-.05
9-14L	.15	.16	.15	FIN-14	-.13	-.15	-.15
9-19L	.15	.16	.15	FIN-15	-.05	-.07	-.07
9-32L	.16	.18	.18	FIN-16	-.04	-.05	-.05
9-38L	.13	.14	.14	FIN-17	0	-.01	-.01
9-44L	.08	.10	.10	FIN-18	-.03	-.04	-.04
9-70L	.04	.05	.05	FIN-19	-.05	-.07	-.05
9-90L	.07	.04	.04	FIN-20	-.03	-.05	-.04
9-95L	.12	.11	.11	FIN-21	-.11	-.12	-.12
2S-60U	.18	.21	.22	FIN-22	-.05	-.07	-.07
2S-60L	.12	.14	.15	FIN-23	-.05	-.07	-.07
5S-60U	.07	.08	.10	FIN-24	-.01	-.03	-.03
5S-60L	.12	.14	.14	FIN-25	-.17	-.21	-.21
8S-60U	.13	.16	.16	FIN-26	-.13	-.15	-.15
8S-60L	.11	.14	.12	FIN-27	-.08	-.10	-.10
10-32U	.01	.03	.03	FIN-28	-.07	-.08	-.08



TABLE 8. - CONTINUED  
(b)  $\alpha$ , 6°.

ORIFICE	$\delta_o = 32$	$\delta_o = 28$	$\delta_o = 24$	ORIFICE	$\delta_o = 32$	$\delta_o = 28$	$\delta_o = 24$
1-0C	.35	.36	.35	3-1.25U	.16	.18	.21
1-1.25U	.35	.34	.32	3-8U	.20	.20	.23
1-2.5U	.25	.24	.23	3-14U	.19	.20	.21
1-5U	.16	.15	.13	3-19U	.19	.20	.21
1-8U	.09	.08	.07	3-32U	.15	.16	.17
1-14J	.04	.03	.03	3-60U	.09	.09	.11
1-19U	.01	.03	.04	3-70U	.05	.05	.07
1-32U	.04	.05	.07	3-95U	.07	.07	.07
1-70U	.12	.12	.13	3-1.25L	.27	.27	.29
1-80U	.03	.04	.04	3-2.5L	.11	.12	.15
1-90U	.01	.01	.01	3-5L	.01	.01	0
1-95U	.07	.07	.07	3-8L	.03	.01	0
1-2.5L	.20	.19	.19	3-14L	.07	.07	.05
1-5L	.17	.18	.16	3-32L	.11	.09	.09
1-14L	.09	.09	.08	3-38L	.13	.12	.12
1-19L	.09	.09	.08	3-60L	.11	.11	.11
1-32L	.04	.04	.04	3-80L	.01	.01	.01
1-38L	.09	.08	.08	3-95L	.08	.07	.08
1-60L	.09	.08	.08	4-0C	.55	.54	.52
1-70L	.07	.07	.07	4-1.25U	.21	.23	.27
1-80L	.04	.04	.04	4-2.5U	.23	.26	.28
2-1.25U	.11	.14	.15	4-14U	.29	.30	.31
2-2.5U	.11	.12	.16	4-19U	.21	.22	.23
2-5U	.13	.15	.17	4-32U	.17	.19	.19
2-32U	.08	.09	.11	4-38U	.19	.20	.20
2-38U	.17	.19	.20	4-60U	.17	.18	.19
2-44U	.08	.09	.11	4-70U	.04	.04	.05
2-70U	.01	.03	.03	4-90U	.03	.03	.03
2-80U	.01	0	.01	4-95U	.08	.08	.08
2-95U	.08	.08	.08	4-100C	.28	.15	.15
2-100C	.09	.09	.09	4-2.5L	.29	.16	.17
2-1.25L	.20	.20	.23	4-5L	.04	.05	.07
2-2.5L	.07	.07	.09	4-8L	.04	.04	1.37
2-5L	.04	.04	.03	4-14L	.08	.08	.08
2-14L	.08	.08	.07	4-19L	.09	.09	.08
2-32L	.04	.09	.08	4-32L	.07	.07	.07
2-38L	.11	.11	.11	4-38L	.12	.12	.12
2-44L	.11	.11	.11	4-44L	.11	.11	.11
2-70L	.01	.01	.01	4-60L	.08	.08	.08
2-95L	.07	.07	.07	4-80L	0	0	0



TABLE 8. - CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = .20$	$\delta_e = .16$	$\delta_e = .12$	ORIFICE	$\delta_e = .20$	$\delta_e = .16$	$\delta_e = .12$
1-0C	.37	.39	.39	3-1.25U	.24	.29	.31
1-1.25U	.31	.29	.28	3-8U	.24	.27	.28
1-2.5U	.21	.20	.19	3-14U	.24	.25	.27
1-5U	.12	.09	.09	3-19U	.23	.25	.27
1-8U	.05	.03	.03	3-32U	.19	.20	.20
1-14U	.01	.01	.03	3-60U	.12	.13	.13
1-19U	.05	.07	.08	3-70U	.08	.09	.11
1-32U	.08	.11	.11	3-95U	.07	.05	.05
1-70U	.13	.13	.15	3-1.25L	.31	.32	.32
1-80U	.05	.07	.07	3-2.5L	.15	.17	.17
1-90U	.03	.04	.04	3-5L	.01	.03	.03
1-95U	.05	.04	.03	3-8L	0	.01	.01
1-2.5L	.17	.17	.16	3-14L	.05	.05	.04
1-5L	.16	.16	.15	3-32L	.09	.08	.08
1-14L	.08	.08	.08	3-38L	.12	.11	.11
1-19L	.08	.08	.08	3-60L	.12	.11	.12
1-32L	.04	.04	.04	3-80L	.03	.03	.03
1-38L	.08	.08	.08	3-95L	.07	.07	.07
1-60L	.09	.09	.09	4-0C	.51	.48	.45
1-70L	.07	.07	.08	4-1.25U	.29	.35	.37
1-80L	.04	.04	.04	4-2.5U	.31	.35	.36
2-1.25U	.17	.19	.19	4-14U	.33	.36	.39
2-2.5U	.17	.21	.23	4-19U	.24	.25	.27
2-5U	.19	.23	.23	4-32U	.20	.21	.23
2-32U	.12	.13	.15	4-38U	.21	.23	.24
2-38U	.21	.23	.24	4-60U	.19	.20	.20
2-44U	.11	.12	.13	4-70U	.05	.07	.07
2-70U	.05	.07	.08	4-90U	.03	.01	.01
2-80U	.03	.04	.04	4-95U	.08	.07	.07
2-95U	.08	.07	.07	4-100C	.15	.15	.13
2-100C	.08	.08	.08	4-2.5L	.19	.21	.21
2-1.25L	.23	.27	.27	4-5L	.07	.09	.09
2-2.5L	.09	.11	.12	4-8L	.05	.07	.07
2-5L	.03	0	0	4-14L	.08	.07	.07
2-14L	.07	.05	.05	4-19L	.08	.08	.08
2-32L	.09	.08	.08	4-32L	.07	.05	.05
2-38L	.11	.11	.11	4-38L	.12	.12	.11
2-44L	.11	.11	.11	4-44L	.11	.11	.11
2-70L	.01	.01	.01	4-60L	.08	.08	.08
2-95L	.05	.05	.04	4-80L	0	0	0

TABLE 8. - CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = .8$	$\delta_e = .4$	$\delta_e = 0$	ORIFICE	$\delta_e = .8$	$\delta_e = .4$	$\delta_e = 0$
1-0C	.37	.40	.40	3-1.25U	.33	.39	.41
1-1.25U	.25	.25	.24	3-8U	.31	.32	.35
1-2.5U	.17	.16	.15	3-14U	.28	.31	.31
1-5U	.08	.07	.05	3-19U	.28	.29	.31
1-8U	.01	0	.01	3-32U	.21	.24	.24
1-14J	.04	.04	.08	3-60U	.15	.15	.16
1-19U	.11	.12	.12	3-70U	.11	.12	.12
1-32U	.13	.15	.16	3-95U	.05	.05	.05
1-70U	.16	.16	.16	3-1.25L	.35	.36	.37
1-80U	.08	.09	.11	3-2.5L	.19	.20	.21
1-90U	.05	.05	.07	3-5L	.04	.05	.07
1-95U	.01	.01	0	3-8L	.03	.03	.04
1-2.5L	.16	.16	.15	3-14L	.04	.04	.03
1-5L	.13	.15	.13	3-32L	.08	.08	.07
1-14L	.07	.07	.07	3-38L	.11	.11	.11
1-19L	.08	.07	.07	3-60L	.12	.12	.12
1-32L	.04	.04	.04	3-80L	.01	.03	.03
1-38L	.08	.08	.08	3-95L	.07	.05	.05
1-60L	.09	.09	.09	4-0C	.43	.48	.47
1-70L	.08	.08	.08	4-1.25U	.40	.45	.48
1-80L	.04	.04	.05	4-2.5U	.39	.44	.45
2-1.25U	.17	.13	.17	4-14U	.40	.43	.44
2-2.5U	.27	.29	.31	4-19U	.28	.31	.31
2-5U	.25	.28	.29	4-32U	.24	.25	.25
2-32U	.17	.19	.20	4-38U	.25	.23	.24
2-38U	.25	.27	.28	4-60U	.21	.23	.23
2-44U	.15	.11	.12	4-70U	.08	.08	.08
2-70U	.09	.11	.12	4-90U	.01	.01	0
2-80U	.04	.05	.05	4-95U	.07	.07	.07
2-95U	.07	.07	.05	4-100C	.13	.13	.13
2-100C	.07	.05	.05	4-2.5L	.23	.24	.25
2-1.25L	.28	.29	.31	4-5L	.11	.12	.13
2-2.5L	.13	.15	.15	4-8L	.07	.08	.09
2-5L	.01	.03	.03	4-14L	.05	.05	.05
2-14L	.04	.04	.04	4-19L	.08	.07	.07
2-32L	.08	.08	.08	4-32L	.07	.05	.05
2-38L	.11	.11	.11	4-38L	.12	.12	.11
2-44L	.11	.11	.11	4-44L	.11	.11	.11
2-70L	.01	.01	.01	4-60L	.09	.09	.09
2-95L	.04	.03	.03	4-80L	.01	.01	0



TABLE 8. - CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	
1-0C	.41	.41	.41	3-1.25U	-	.45	.47	.53
1-1.25U	.23	.22	.20	3-8U	-	.36	.38	.41
1-2.5U	.15	.14	.12	3-14U	-	.33	.34	.36
1-5U	.04	.03	.03	3-19U	-	.32	.34	.35
1-8U	.03	.04	.05	3-32U	-	.25	.27	.28
1-14J	.07	.08	.09	3-60U	-	.17	.19	.19
1-19U	.13	.15	.18	3-70U	-	.13	.14	.15
1-32U	.17	.19	.20	3-95U	-	.04	.04	.04
1-70U	.17	.18	.19	3-1.25L	-	.39	.41	.42
1-80U	.12	.12	.15	3-2.5L	-	.23	.23	.24
1-90U	.07	.08	.09	3-5L	-	.07	.07	.08
1-95U	.01	.03	.04	3-8L	-	.04	.04	.05
1-2.5L	.15	.15	.14	3-14L	-	.03	.03	.01
1-5L	.13	.14	.14	3-32L	-	.07	.07	.07
1-14L	.07	.07	.07	3-38L	-	.11	.11	.11
1-19L	.07	.07	.07	3-60L	-	.12	.12	.12
1-32L	.04	.04	.03	3-80L	-	.03	.04	.04
1-38L	.08	.08	.08	3-95L	-	.05	.05	.05
1-60L	.09	.09	.09	4-0C	-	.43	.43	.39
1-70L	.08	.08	.09	4-1.25U	-	.52	.54	.58
1-80L	1.79	.05	.05	4-2.5U	-	.48	.50	.54
2-1.25U	.21	.26	.28	4-14U	-	.45	.46	.49
2-2.5U	.33	.36	.39	4-19U	-	.32	.34	.35
2-5U	.32	.34	.38	4-32U	-	.27	.28	.30
2-32U	.21	.23	.24	4-38U	-	.25	.27	.28
2-38U	.29	.31	.32	4-60U	-	.23	.24	.24
2-44U	.13	.15	.16	4-70U	-	.09	.09	.09
2-70U	.13	.14	.15	4-90U	0	0	0	0
2-80U	.07	.07	.08	4-95U	-	.07	.07	.05
2-95U	.05	.04	.04	4-100C	-	.13	.14	.14
2-100C	.05	.05	.04	4-2.5L	-	.27	.27	.28
2-1.25L	.32	.34	.35	4-5L	-	.13	.14	.15
2-2.5L	.16	.18	.19	4-8L	-	.09	.09	.11
2-5L	.03	.04	.05	4-14L	-	.04	.04	.04
2-14L	.04	.04	.03	4-19L	-	.05	.07	.05
2-32L	.08	.08	.08	4-32L	-	.05	.04	.05
2-38L	.11	.11	.09	4-38L	-	.11	.11	.11
2-44L	.11	.11	.11	4-44L	-	.11	.09	.09
2-70L	.03	.03	.03	4-60L	-	.09	.08	.09
2-95L	.03	.03	.01	4-80L	-	.01	.01	.01

TABLE 8. - CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$	ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$
1-0C	.41	.47	.41	3-1.25U	.77	.57	.60
1-1.25U	.20	.20	.19	3-8U	.28	.43	.45
1-2.5U	.11	.09	.09	3-14U	.37	.39	.40
1-5U	.01	.01	0	3-19U	.36	.37	.39
1-8U	.05	.07	.08	3-32U	.29	.31	.32
1-14J	.11	.11	.12	3-60U	.20	.20	.21
1-19U	.19	.19	.20	3-70U	.16	.16	.17
1-32U	.23	.24	.25	3-95U	.03	.03	.03
1-70U	.20	.21	.23	3-1.25L	.43	.43	.43
1-80U	.15	.17	.17	3-2.5L	.25	.25	.27
1-90U	.11	.12	.13	3-5L	.09	.09	.09
1-95U	.09	.05	.07	3-8L	.07	.07	.07
1-2.5L	.13	.13	.13	3-14L	0	.01	0
1-5L	.13	.13	.13	3-32L	.07	.07	.07
1-14L	.07	.07	.07	3-38L	.11	.11	.11
1-19L	.07	.07	.07	3-60L	.12	.12	.12
1-32L	.03	.04	.04	3-80L	.04	.04	.04
1-38L	.08	.08	.08	3-95L	.05	.04	.04
1-60L	.09	.11	.11	4-0C	.35	.31	.27
1-70L	.09	1.24	.11	4-1.25U	.60	.64	.68
1-80L	.07	.07	.07	4-2.5U	.57	.59	.63
2-1.25U	.29	.33	.36	4-14U	.49	.49	.52
2-2.5U	.41	.43	.44	4-19U	.36	.37	.39
2-5U	.37	.40	.41	4-32U	.31	.31	.32
2-32U	.25	.27	.28	4-38U	.28	.29	.31
2-38U	.33	.35	.32	4-60U	.25	.27	.27
2-44U	.16	.17	.19	4-70U	.11	.11	.11
2-70U	.16	.17	.19	4-90U	0	.01	.01
2-80U	.09	.09	.11	4-95U	.05	.05	.05
2-95U	.03	.03	.03	4-100C	.13	.12	.12
2-100C	.03	.03	.03	4-2.5L	.29	.29	.31
2-1.25L	.36	.36	.36	4-5L	.16	.15	.16
2-2.5L	.20	.20	.20	4-8L	.12	.12	.12
2-5L	.05	.05	.07	4-14L	.04	.04	.03
2-14L	.03	.03	.03	4-19L	.05	.05	.05
2-32L	.08	.08	.08	4-32L	.05	.05	.05
2-38L	.11	.11	.11	4-38L	.11	.11	.11
2-44L	.11	.11	.11	4-44L	.09	.11	.11
2-70L	.03	.04	.04	4-60L	.09	.09	.09
2-95L	.01	.01	0	4-80L	.01	.01	.01



TABLE 8.- CONTINUED  
(b)- Continued

ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$	ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$
4-90L	.04	.04	.04	6-8L	.08	.09	.09
4-95L	.08	.08	.08	6-14L	-	.01	0
5-0C	.56	.55	.53	6-19L	-	.03	.03
5-1.25U	-	.36	.37	6-38L	-	.09	.09
5-8U	-	.25	.27	6-44L	-	.11	.11
5-14U	-	.23	.24	6-60L	-	.09	.11
5-19U	-	.25	.27	6-70L	-	.01	.01
5-38U	-	.19	.20	7-0C	-	.35	.32
5-44U	-	.15	.16	7-5U	-	.39	.40
5-60U	-	.13	.15	7-8U	-	.29	.31
5-70U	-	.09	.09	7-14U	-	.25	.27
5-80U	-	.04	.05	7-19U	-	.24	.25
5-90U	-	.03	.03	7-38U	-	.23	.23
5-95U	-	.05	.05	7-60U	-	.13	.13
5-1.25L	-	.33	.33	7-90U	-	.03	.03
5-2.5L	-	.21	.23	7-95U	-	.07	.08
5-5L	-	.07	.07	7-1.25L	-	.40	.41
5-8L	-	.05	.05	7-2.5L	-	.24	.25
5-14L	-	0	0	7-5L	-	.11	.12
5-19L	-	.07	.05	7-8L	-	.05	.05
5-38L	-	.11	.09	7-14L	-	.03	.01
5-44L	-	.09	.09	7-19L	-	.05	.05
5-60L	-	.12	.12	7-32L	-	.07	.07
5-70L	-	.01	0	7-44L	-	.08	.08
5-90L	-	.05	.05	7-60L	-	.08	.08
5-95L	-	.09	.08	7-70L	-	.05	.05
6-0C	-	.52	.51	7-90L	-	.05	.04
6-5U	-	.37	.37	7-95L	-	.08	.09
6-14U	-	.28	.28	8-0C	-	.32	.29
6-19U	-	.01	.01	8-1.25U	-	1.97	.49
6-32U	-	.21	.23	8-2.5U	-	.51	.51
6-44U	-	.19	.19	8-5U	-	.39	.40
6-60U	-	.13	.13	8-8U	-	.32	.33
6-70U	-	.12	.12	8-14U	-	.25	.25
6-80U	-	.04	.04	8-19U	-	.23	.23
6-90U	-	0	0	8-60U	-	.05	.05
6-100C	-	.15	.13	8-80U	-	.01	.01
6-1.25L	-	.39	.39	8-90U	-	.04	.04
6-2.5L	-	.19	.20	8-95U	-	.07	.07
6-5L	-	.09	.11	8-100C	-	.15	.15

TABLE 8.- CONTINUED  
(b)- Continued

ORIFICE	$\delta_{e=-20}$	$\delta_{e=-16}$	$\delta_{e=-12}$	ORIFICE	$\delta_{e=-20}$	$\delta_{e=-16}$	$\delta_{e=-12}$
4-90L	.04	.04	.04	6-8L	.11	.12	.12
4-95L	.08	.07	.07	6-14L	0	.01	.01
5-0C	.52	.50	.47	6-19L	.03	.01	.01
5-1.25U	.44	.49	.52	6-38L	.09	.09	.08
5-8U	.12	.30	.31	6-44L	.09	.09	.09
5-14U	.25	.28	.29	6-60L	.09	.09	.09
5-19U	.28	.30	.31	6-70L	.01	.01	.01
5-38U	.21	.23	.23	7-0C	.28	.22	.19
5-44U	.17	.19	.19	7-5U	.43	.46	.47
5-60U	.16	.16	.16	7-8U	.32	.35	.36
5-70U	.09	.11	.11	7-14U	.28	.30	.29
5-80U	.05	.07	.07	7-19U	.27	.28	.29
5-90U	.01	.01	.01	7-38U	.23	.24	.25
5-95U	.05	.05	.04	7-60U	.15	.15	.16
5-1.25L	.36	.38	.40	7-90U	.01	.01	.01
5-2.5L	.24	.26	.27	7-95U	.07	.08	.08
5-5L	.09	.09	.11	7-1.25L	.44	.46	.45
5-8L	.08	.08	.09	7-2.5L	.27	.28	.29
5-14L	.01	.01	.01	7-5L	.13	.15	.16
5-19L	.05	.05	.04	7-8L	.07	.08	.08
5-38L	.09	.09	.09	7-14L	.01	0	.01
5-44L	.09	.09	.09	7-19L	.04	.03	.03
5-60L	.12	.12	.12	7-32L	.07	.07	.07
5-70L	.01	.01	.01	7-44L	.08	.08	.08
5-90L	.05	.05	.04	7-60L	.08	.08	.08
5-95L	.08	.08	.08	7-70L	.05	.05	.05
6-0C	.48	.45	.41	7-90L	.04	.04	.04
6-5U	.41	.43	.45	7-95L	.09	.08	.08
6-14U	.31	.32	.33	8-0C	.25	.19	.17
6-19U	.01	.01	.01	8-1.25U	.55	.61	.61
6-32U	.24	.26	.24	8-2.5U	.56	.61	.61
6-44U	.20	.22	.21	8-5U	.41	.43	.44
6-60U	.15	.16	.16	8-8U	.35	.36	.36
6-70U	.13	.14	.13	8-14U	.27	.28	.29
6-80U	.04	.05	.05	8-19U	.24	.26	.27
6-90U	0	0	0	8-60U	.05	.05	.05
6-100C	.13	.14	.13	8-80U	.11	.03	.03
6-1.25L	.43	.45	.44	8-90U	.04	.09	.03
6-2.5L	.21	.24	.24	8-95U	.07	.07	.07
6-5L	.12	.14	.15	8-100C	.15	.15	.15



TABLE 8.- CONTINUED  
(b)- Continued

ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$	ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$
4-90L	.03	.03	.03	6-8L	.12	.13	.13
4-95L	.07	.07	.07	6-14L	.01	.03	.03
5-0C	.45	.40	.41	6-19L	-	0	0
5-1.25U	-	.57	.60	6-38L	-	.08	.08
5-8U	-	.32	.39	6-44L	-	.09	.09
5-14U	-	.30	.32	6-60L	-	.09	.09
5-19U	-	.32	.33	6-70L	-	.01	.01
5-38U	-	.24	.25	7-0C	-	.18	.11
5-44U	-	.20	.20	7-5U	-	.50	.52
5-60U	-	.18	.19	7-8U	-	.36	.39
5-70U	-	.12	.12	7-14U	-	.31	.33
5-80U	-	.07	.07	7-19U	-	.30	.31
5-90U	-	.01	0	7-38U	-	.26	.27
5-95U	-	.04	.04	7-60U	-	.16	.16
5-1.25L	-	.41	.43	7-90U	-	.01	0
5-2.5L	-	.30	.29	7-95U	-	.07	.07
5-5L	-	.11	.13	7-1.25L	-	.47	.48
5-8L	-	.09	.11	7-2.5L	-	.31	.32
5-14L	-	.03	.03	7-5L	-	.16	.17
5-19L	-	.04	.03	7-8L	-	.08	.09
5-38L	-	.09	.09	7-14L	-	.01	.03
5-44L	-	.09	.08	7-19L	-	.03	.03
5-60L	-	.12	.12	7-32L	-	.05	.05
5-70L	-	.01	.01	7-44L	-	.08	.08
5-90L	-	.04	.04	7-60L	-	.08	.08
5-95L	-	.08	.08	7-70L	-	.05	.05
6-0C	-	.41	.36	7-90L	-	.04	.04
6-5U	-	.47	.49	7-95L	-	.08	.08
6-14U	-	.35	.35	8-0C	-	.15	.09
6-19U	-	.01	.01	8-1.25U	-	.65	.43
6-32U	-	.26	.23	8-2.5U	-	.64	.68
6-44U	-	.22	.19	8-5U	-	.46	.47
6-60U	-	.16	.17	8-8U	-	.38	.39
6-70U	-	.15	.15	8-14U	-	.30	.31
6-80U	-	.05	.07	8-19U	-	.28	.29
6-90U	-	0	0	8-60U	-	.05	.04
6-100C	-	.14	.13	8-80U	-	.03	.03
6-1.25L	-	.46	.47	8-90U	-	.03	.03
6-2.5L	-	.26	.27	8-95U	-	.07	.07
6-5L	-	.15	.16	8-100C	-	.15	.15

TABLE 8.- CONTINUED  
(b)- Continued

ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$	ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$
4-90L	.03	.03	.03	6-8L	.15	.15	.16
4-95L	.07	.05	.05	6-14L	.03	.04	.04
5-0C	.38	.34	.31	6-19L	- 0	- 0	.01
5-1.25U	- .66 -	- .70 -	- .74 -	6-38L	- .08 -	- .08 -	.08
5-8U	- .36 -	- .38 -	- .41 -	6-44L	- .09 -	- .09 -	.09
5-14U	- .34 -	- .35 -	- .36 -	6-60L	- .09 -	- .09 -	.11
5-19U	- .36 -	- .36 -	- .38 -	6-70L	- .01 -	- .01 -	.01
5-38U	- .27 -	- .27 -	- .28 -	7-0C	.07	.01	.01
5-44U	- .23 -	- .23 -	- .23 -	7-5U	- .54 -	- .57 -	.58
5-60U	- .19 -	- .20 -	- .20 -	7-8U	- .41 -	- .42 -	.43
5-70U	- .14 -	- .14 -	- .15 -	7-14U	- .34 -	- .35 -	.36
5-80U	- .08 -	- .08 -	- .08 -	7-19U	- .32 -	- .34 -	.34
5-90U	- 0 -	- 0 -	- 0 -	7-38U	- .28 -	- .12 -	.30
5-95U	.04	.04	.04	7-60U	- .18 -	- .18 -	.18
5-1.25L	.45	.46	.47	7-90U	.01	- 0 -	- 0 -
5-2.5L	.31	.32	.34	7-95U	.07	.07	.07
5-5L	.15	.15	.16	7-1.25L	.50	.51	.51
5-8L	.11	.12	.12	7-2.5L	.32	.34	.35
5-14L	.04	.04	.04	7-5L	.19	.19	.20
5-19L	- .03 -	- .03 -	- .03 -	7-8L	.11	.12	.12
5-38L	- .09 -	- .09 -	- .09 -	7-14L	.03	.03	.03
5-44L	- .08 -	- .08 -	- .08 -	7-19L	- .01 -	- .01 -	.01
5-60L	- .12 -	- .12 -	- .12 -	7-32L	- .07 -	- .05 -	.05
5-70L	- .01 -	- .01 -	- .01 -	7-44L	- .08 -	- .08 -	.08
5-90L	.04	.04	.04	7-60L	- .08 -	- .08 -	.08
5-95L	.08	.07	.07	7-70L	- .05 -	- .05 -	.05
6-0C	.32	.28	.26	7-90L	.04	.04	.04
6-5U	- .53 -	- .55 -	- .57 -	7-95L	.08	.08	.08
6-14U	- .36 -	- .38 -	- .39 -	8-0C	.05	.01	.01
6-19U	- .01 -	- .01 -	- .01 -	8-1.25U	- .72 -	- .76 -	.78
6-32U	- .26 -	- .26 -	- .27 -	8-2.5U	- .70 -	- .73 -	.74
6-44U	- .22 -	- .23 -	- .23 -	8-5U	- .49 -	- .50 -	.51
6-60U	- .18 -	- .19 -	- .19 -	8-8U	- .41 -	- .42 -	.43
6-70U	- .16 -	- .16 -	- .16 -	8-14U	- .32 -	- .34 -	.35
6-80U	- .07 -	- .07 -	- .07 -	8-19U	- .30 -	- .30 -	.31
6-90U	- 0 -	- 0 -	- 0 -	8-60U	- .05 -	- .04 -	.05
6-100C	.14	.12	.12	8-80U	- .04 -	- .03 -	.04
6-1.25L	.50	.51	.51	8-90U	.03	.03	.03
6-2.5L	.28	.30	.31	8-95U	- .07 -	- .06 -	.08
6-5L	.18	.19	.19	8-100C	.15	.14	.15



TABLE 8.- CONTINUED  
(b)- Continued

ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$	ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$
4-90L	.03	.03	.01	6-8L	.16	.16	.16
4-95L	.05	.05	.05	6-14L	.04	.04	.04
5-0C	.30	.26	.26	6-19L	.01	0	.01
5-1.25U	-.76	.80	.81	6-38L	-.08	.08	.08
5-8U	-.41	.42	.43	6-44L	-.09	.09	.09
5-14U	-.38	.38	.39	6-60L	-.11	.11	.11
5-19U	-.39	.39	.41	6-70L	-.01	.01	.01
5-38U	-.28	.30	.31	7-0C	-.03	.05	.08
5-44U	-.24	.24	.26	7-5U	-.58	.59	.59
5-60U	-.20	.22	.22	7-8U	-.45	.46	.46
5-70U	-.15	.15	.16	7-14U	-.38	.38	.39
5-80U	-.09	.09	.09	7-19U	-.35	.35	.36
5-90U	0	0	.01	7-38U	-.30	.30	.30
5-95U	.04	.04	.04	7-60U	-.19	.19	.20
5-1.25L	.47	.49	.49	7-90U	0	0	0
5-2.5L	.34	.35	.35	7-95U	.07	.07	.07
5-5L	.16	.18	.18	7-1.25L	.53	.53	.53
5-8L	.12	.14	.14	7-2.5L	.35	.35	.36
5-14L	.04	.05	.05	7-5L	.20	.20	.20
5-19L	-.03	.03	.03	7-8L	.12	.12	.12
5-38L	-.09	.07	.09	7-14L	.03	.03	.03
5-44L	-.08	.08	.08	7-19L	-.01	.01	.01
5-60L	-.12	.12	.12	7-32L	-.05	.05	.05
5-70L	-.01	.01	.01	7-44L	-.08	.08	.08
5-90L	.04	.04	.04	7-60L	-.09	.09	.09
5-95L	.07	.07	.07	7-70L	-.05	.05	.05
6-0C	.26	.23	.20	7-90L	.04	.04	.04
6-5U	-.58	.59	.59	7-95L	.08	.08	.08
6-14U	-.41	.41	.42	8-0C	-.01	.04	.07
6-19U	-.01	.01	.01	8-1.25U	-.80	.81	.82
6-32U	-.28	.28	.30	8-2.5U	-.76	.77	.78
6-44U	-.23	.24	.24	8-5U	-.51	.53	.53
6-60U	-.19	.20	.20	8-8U	-.43	.45	.46
6-70U	-.16	.16	.18	8-14U	-.35	.35	.36
6-80U	-.07	.08	.08	8-19U	-.32	.32	.34
6-90U	0	0	0	8-60U	-.04	.05	.04
6-100C	.12	.12	.12	8-80U	-.04	.04	.04
6-1.25L	.51	.51	.53	8-90U	.01	.01	.01
6-2.5L	.31	.31	.32	8-95U	-.08	.08	.08
6-5L	.19	.20	.20	8-100C	.15	.14	.14

TABLE 8. - CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = .32$	$\delta_e = .28$	$\delta_e = .24$	ORIFICE	$\delta_e = .32$	$\delta_e = .28$	$\delta_e = .24$
8-1.25L	.24	.39	.39	11-32U	-.27	-.14	-.14
8-2.5L	.12	.27	.27	12-32U	-.27	-.14	-.15
8-5L	-.03	.12	.12	TIP-32C	-.28	-.15	-.15
8-8L	-.09	.04	.04	11-32L	-.22	-.08	-.08
8-14L	-.14	0	0	10-32L	-.22	-.09	-.08
8-19L	-.16	.03	.03	10-70U	-.18	-.04	-.04
8-32L	-.20	.07	.07	11-70U	-.19	-.05	-.05
8-38L	-.22	.08	.08	12-70U	-.20	-.07	-.07
8-44L	-.23	.09	.09	TIP-70C	-.15	-.01	-.01
8-60L	-.20	.05	.05	12-70L	-.28	-.15	-.16
8-95L	-.05	.08	.08	11-70L	-.20	-.08	-.08
9-0C	.32	.45	.45	10-70L	-.19	-.05	-.05
9-1.25U	-.59	.49	.49	FIN-1	-.15	-.01	-.01
9-2.5U	-.61	.49	.49	FIN-2	-.18	-.04	-.04
9-5U	-.53	.41	.41	FIN-3	-.14	-.01	-.01
9-14U	-.27	.28	.28	FIN-4	-.26	-.12	-.11
9-19U	-.26	.26	.12	FIN-5	-.16	-.04	-.03
9-32U	-.34	.20	.22	FIN-6	-.16	-.04	-.03
9-44U	-.27	.14	.14	FIN-7	-.30	-.15	-.15
9-70U	-.14	0	0	FIN-8	-.19	-.05	-.05
9-80U	-.12	.01	0	FIN-9	-.23	-.09	-.09
9-100C	0	.14	.14	FIN-10	-.22	-.08	-.08
9-1.25L	.20	.35	.35	FIN-11	-.22	-.08	-.08
9-5L	0	.15	.15	FIN-12	-.19	-.05	-.05
9-8L	-.11	.04	.03	FIN-13	-.22	-.07	-.07
9-14L	-.16	.03	.03	FIN-14	-.28	-.15	-.15
9-19L	-.19	.05	.05	FIN-15	-.20	-.07	-.07
9-32L	-.26	.12	.12	FIN-16	-.18	-.04	-.04
9-38L	-.23	.09	.09	FIN-17	-.15	-.01	-.01
9-44L	-.19	.05	.05	FIN-18	-.16	-.03	-.03
9-70L	-.19	.05	.05	FIN-19	-.20	-.07	-.07
9-90L	-.08	.05	.05	FIN-20	-.18	-.04	-.04
9-95L	-.01	.12	.12	FIN-21	-.27	-.14	-.14
2S-60U	-.26	.14	.14	FIN-22	-.20	-.07	-.07
2S-60L	-.22	.08	.08	FIN-23	-.19	-.05	-.05
5S-60U	-.19	.05	.05	FIN-24	-.15	-.01	-.01
5S-60L	-.22	.08	.08	FIN-25	-.35	-.20	-.20
8S-60U	-.26	.12	.14	FIN-26	-.28	-.15	-.15
8S-60L	-.22	.08	.08	FIN-27	-.23	-.09	-.08
10-32U	-.14	0	0	FIN-28	-.22	-.08	-.08



TABLE 8. - CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$	ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$
8-1.25L	.41	.42	.43	11-32U	-.15	-.14	-.15
8-2.5L	.28	.30	.31	12-32U	-.15	-.16	-.16
8-5L	.14	.14	.15	TIP-32C	-.16	-.18	-.18
8-8L	.05	.05	.05	11-32L	-.08	-.09	-.09
8-14L	0	.01	.01	10-32L	-.08	-.09	-.09
8-19L	-.03	-.01	-.01	10-70U	-.05	-.05	-.05
8-32L	-.07	-.07	-.07	11-70U	-.07	-.07	-.09
8-38L	-.08	-.08	-.08	12-70U	-.08	-.09	-.09
8-44L	-.09	-.09	-.09	TIP-70C	-.01	-.01	0
8-60L	-.05	-.05	-.07	12-70L	-.16	-.19	-.20
8-95L	.08	.08	.08	11-70L	-.08	-.09	-.09
9-0C	.42	.39	.36	10-70L	-.05	-.07	-.07
9-1.25U	-.51	-.54	-.57	FIN-1	-.01	-.01	-.01
9-2.5U	-.51	-.54	-.55	FIN-2	-.04	-.04	-.04
9-5U	-.42	-.43	-.45	FIN-3	0	-.01	0
9-14U	-.28	-.30	-.31	FIN-4	-.12	-.12	-.12
9-19U	-.27	-.28	-.28	FIN-5	-.03	-.03	-.03
9-32U	-.22	-.23	-.23	FIN-6	-.03	-.04	-.04
9-44U	-.14	-.15	-.15	FIN-7	-.15	-.15	-.15
9-70U	0	0	0	FIN-8	-.05	-.05	-.05
9-80U	0	0	0	FIN-9	-.09	-.09	-.09
9-100C	.14	.12	.12	FIN-10	-.07	-.08	-.07
9-1.25L	.36	.38	.39	FIN-11	-.08	-.08	-.08
9-5L	.15	.16	.16	FIN-12	-.05	-.05	-.05
9-8L	.04	.04	.05	FIN-13	-.07	-.05	-.05
9-14L	-.03	-.01	-.01	FIN-14	-.15	-.15	-.15
9-19L	-.05	-.05	-.05	FIN-15	-.07	-.07	-.07
9-32L	-.12	-.12	-.12	FIN-16	-.04	-.04	-.04
9-38L	-.09	-.09	-.09	FIN-17	-.01	-.01	-.01
9-44L	-.05	-.05	-.05	FIN-18	-.03	-.03	-.03
9-70L	-.05	-.05	-.05	FIN-19	-.07	-.07	-.07
9-90L	.05	.05	.05	FIN-20	-.04	-.04	-.04
9-95L	.12	.12	.12	FIN-21	-.14	-.12	-.14
2S-60U	-.15	-.15	-.15	FIN-22	-.08	-.07	-.07
2S-60L	-.08	-.09	-.09	FIN-23	-.05	-.05	-.05
5S-60U	-.05	-.05	-.05	FIN-24	-.01	-.01	-.01
5S-60L	-.08	-.08	-.08	FIN-25	-.20	-.20	-.20
8S-60U	-.14	-.14	-.15	FIN-26	-.15	-.15	-.15
8S-60L	-.07	-.08	-.08	FIN-27	-.09	-.08	-.09
10-32U	0	0	0	FIN-28	-.08	-.08	-.07

TABLE 8. -- CONTINUED  
(b) -- Continued

ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$	ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$
8-1.25L	.44	.39	.45	11-32U	.15	.14	.16
8-2.5L	.32	.27	.32	12-32U	.16	.15	.19
8-5L	.16	.13	.16	TIP-32C	.17	.17	.20
8-8L	.08	.06	.07	11-32L	.08	.08	.09
8-14L	.03	.01	.01	10-32L	.08	.08	.09
8-19L	0	.01	.01	10-70U	.05	.06	.07
8-32L	.05	.06	.07	11-70U	.08	.10	.11
8-38L	.07	.07	.08	12-70U	.09	.10	.12
8-44L	.08	.08	.09	TIP-70C	.01	0	0
8-60L	.05	.06	.07	12-70L	.20	.19	.23
8-95L	.09	.19	.07	11-70L	.08	.08	.09
9-0C	.35	.30	.32	10-70L	.05	.06	.07
9-1.25U	.57	.54	.61	FIN-1	0	.01	.01
9-2.5U	.55	.51	.59	FIN-2	.03	.04	.03
9-5U	.44	.40	.47	FIN-3	.01	0	0
9-14U	.29	.29	.32	FIN-4	.09	.10	.11
9-19U	.28	.26	.30	FIN-5	.01	.02	.03
9-32U	.21	.20	.24	FIN-6	.01	.02	.03
9-44U	.13	.14	.16	FIN-7	.13	.12	.14
9-70U	.01	.01	.01	FIN-8	.04	.04	.05
9-80U	.01	0	.01	FIN-9	.08	.08	.08
9-100C	.13	.11	.12	FIN-10	.05	.06	.07
9-1.25L	.40	.36	.41	FIN-11	.07	.07	.08
9-5L	.19	.14	.18	FIN-12	.04	.05	.05
9-8L	.07	.05	.05	FIN-13	.04	.05	.05
9-14L	0	.01	.01	FIN-14	.12	.12	.14
9-19L	.03	.04	.05	FIN-15	.04	.06	.05
9-32L	.11	.11	.12	FIN-16	.03	.04	.04
9-38L	.08	.08	.09	FIN-17	0	.01	.01
9-44L	.04	.06	.07	FIN-18	.01	.02	.03
9-70L	.04	.05	.07	FIN-19	.05	.06	.07
9-90L	.05	.04	.04	FIN-20	.03	.04	.04
9-95L	.12	.21	.11	FIN-21	.11	.12	.12
2S-60U	.15	.14	.18	FIN-22	.05	.06	.07
2S-60L	.08	.08	.09	FIN-23	.04	.05	.05
5S-60U	.04	.06	.07	FIN-24	0	.01	.01
5S-60L	.08	.08	.09	FIN-25	.19	.18	.20
8S-60U	.13	.13	.16	FIN-26	.12	.13	.15
8S-60L	.07	.07	.08	FIN-27	.07	.07	.08
10-32U	.01	0	0	FIN-28	.05	.07	.08



TABLE 8. - CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$
8-1.25L	.47	.48	.47	11-32U	-.15	-.16	-.18
8-2.5L	.35	.35	.35	12-32U	-.17	-.19	-.22
8-5L	.19	.19	.05	TIP-32C	-.19	-.20	-.23
8-8L	.09	.09	.09	11-32L	-.08	-.08	-.09
8-14L	.04	.04	.03	10-32L	-.08	-.08	-.09
8-19L	- 0	.01	- 0	10-70U	-.05	-.05	-.07
8-32L	-.05	-.05	-.07	11-70U	-.11	-.12	-.14
8-38L	-.07	-.07	-.08	12-70U	-.12	-.12	-.15
8-44L	-.08	-.08	-.09	TIP-70C	- 0	.01	- 0
8-60L	-.05	-.05	-.07	12-70L	-.23	-.24	-.27
8-95L	.08	.08	.07	11-70L	-.09	-.09	-.11
9-0C	.31	.28	.26	10-70L	-.07	-.07	-.08
9-1.25U	-.61	-.61	-.64	FIN-1	- 0	- 0	-.01
9-2.5U	-.60	-.61	-.65	FIN-2	-.01	-.01	-.03
9-5U	-.47	-.48	-.50	FIN-3	.01	.03	- 0
9-14U	-.32	-.32	-.35	FIN-4	-.09	-.09	-.11
9-19U	-.29	-.29	-.32	FIN-5	-.01	-.01	-.03
9-32U	-.23	-.23	-.26	FIN-6	-.01	-.01	-.03
9-44U	-.15	-.15	-.16	FIN-7	-.12	-.12	-.12
9-70U	- 0	- 0	-.01	FIN-8	-.04	-.04	-.05
9-80U	- 0	- 0	-.01	FIN-9	-.08	-.07	-.08
9-100C	.13	.13	.12	FIN-10	-.07	-.05	-.07
9-1.25L	.43	.44	.43	FIN-11	-.07	-.07	-.08
9-5L	.19	.05	.19	FIN-12	-.04	-.04	-.05
9-8L	.07	.21	.07	FIN-13	-.04	-.03	-.04
9-14L	- 0	-.01	- 0	FIN-14	-.13	-.12	-.14
9-19L	-.03	-.03	-.04	FIN-15	-.05	-.04	-.05
9-32L	-.11	-.11	-.12	FIN-16	-.03	-.03	-.04
9-38L	-.08	-.08	-.09	FIN-17	- 0	.01	-.01
9-44L	-.05	-.05	-.05	FIN-18	-.01	-.01	-.03
9-70L	-.05	-.05	-.07	FIN-19	-.05	-.05	-.07
9-90L	.05	.05	.04	FIN-20	-.03	-.03	-.04
9-95L	.12	.12	.11	FIN-21	-.11	-.12	-.12
2S-60U	-.17	-.19	-.20	FIN-22	-.05	-.05	-.07
2S-60L	-.08	-.08	-.11	FIN-23	-.04	-.04	-.05
5S-60U	-.05	-.05	-.07	FIN-24	- 0	.01	-.01
5S-60L	-.08	-.08	-.09	FIN-25	-.17	-.19	-.20
8S-60U	-.15	-.15	-.16	FIN-26	-.13	-.13	-.15
8S-60L	-.07	-.07	-.08	FIN-27	-.07	-.07	-.09
10-32U	.01	.01	- 0	FIN-28	-.05	-.07	-.08

TABLE 8. - CONTINUED  
(b) - Concluded

ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$	ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$
8-1.25L	.48	.48	.49	11-32U	-.17	-.19	-.21
8-2.5L	.36	.36	.37	12-32U	-.20	-.22	-.23
8-5L	.20	.19	.19	TIP-32C	-.21	-.23	-.25
8-8L	.11	.10	.10	11-32L	-.08	-.11	-.11
8-14L	.04	.03	.03	10-32L	-.08	-.10	-.10
8-19L	.01	0	0	10-70U	-.07	-.08	-.08
8-32L	-.05	-.07	-.07	11-70U	-.13	-.15	-.15
8-38L	-.07	-.08	-.08	12-70U	-.13	-.16	-.16
8-44L	-.08	-.10	-.10	TIP-70C	0	0	0
8-60L	-.05	-.08	-.08	12-70L	-.27	-.29	-.30
8-95L	.08	.07	.07	11-70L	-.11	-.12	-.12
9-0C	.25	.23	.21	10-70L	-.07	-.08	-.08
9-1.25U	-.61	-.66	-.67	FIN-1	0	0	-.01
9-2.5U	-.64	-.68	-.70	FIN-2	-.01	-.03	-.03
9-5U	-.48	-.52	-.53	FIN-3	.03	.01	0
9-14U	-.33	-.37	-.37	FIN-4	-.08	-.11	-.11
9-19U	-.31	-.34	-.34	FIN-5	-.01	-.03	-.03
9-32U	-.24	-.26	-.27	FIN-6	-.01	-.03	-.03
9-44U	-.16	-.18	-.18	FIN-7	-.12	-.12	-.12
9-70U	-.01	-.03	-.03	FIN-8	-.03	-.04	-.05
9-80U	0	-.01	-.01	FIN-9	-.07	-.08	-.08
9-100C	.13	.11	.11	FIN-10	-.05	-.07	-.07
9-1.25L	.45	.45	.45	FIN-11	-.07	-.08	-.08
9-5L	.20	.19	.19	FIN-12	-.04	-.05	-.03
9-8L	.08	.07	.07	FIN-13	-.03	-.04	-.04
9-14L	.01	0	0	FIN-14	-.12	-.14	-.14
9-19L	-.03	-.04	-.04	FIN-15	-.04	-.05	-.05
9-32L	-.11	-.12	-.12	FIN-16	-.03	-.04	-.04
9-38L	-.08	-.10	-.10	FIN-17	-.01	0	0
9-44L	-.05	-.07	-.07	FIN-18	-.01	-.03	-.03
9-70L	-.05	-.07	-.07	FIN-19	-.05	-.07	-.07
9-90L	.05	.04	.04	FIN-20	-.03	-.04	-.04
9-95L	.12	.11	.11	FIN-21	-.12	-.14	-.14
2S-60U	-.20	-.22	-.23	FIN-22	-.05	-.08	-.07
2S-60L	-.09	-.11	-.11	FIN-23	-.04	-.07	-.07
5S-60U	-.07	-.08	-.08	FIN-24	0	0	0
5S-60L	-.08	-.10	-.10	FIN-25	-.19	-.21	-.21
8S-60U	-.16	-.18	-.19	FIN-26	-.13	-.15	-.15
8S-60L	-.07	-.10	-.08	FIN-27	-.08	-.10	-.10
10-32U	.01	0	0	FIN-28	.33	-.08	-.08



TABLE 8. - CONTINUED  
(c)  $\alpha$ , 12°.

ORIFICE	$\delta_e = .32$	$\delta_e = .28$	$\delta_e = .24$	ORIFICE	$\delta_e = .32$	$\delta_e = .28$	$\delta_e = .24$
1-0C	.41	.43	.44	3-1.25U	.83	.85	.91
1-1.25U	.33	.31	.31	3-3U	.44	.45	.47
1-2.5U	.23	.21	.20	3-14U	.35	.37	.39
1-5U	.13	.11	.09	3-19U	.32	.33	.35
1-8U	.05	.04	.03	3-32U	.23	.24	.25
1-14J	0	0	.03	3-60U	.12	.12	.13
1-19U	.07	.08	.09	3-70U	.04	.08	.05
1-32U	.09	.11	.12	3-95U	.05	.05	.05
1-70U	.12	.13	.13	3-1.25L	.55	.56	.56
1-80U	.05	.05	.07	3-2.5L	.40	.41	.43
1-90U	.03	.03	.03	3-5L	.24	.24	.25
1-95U	.05	.04	.04	3-8L	.20	.20	.20
1-2.5L	.19	.19	.17	3-14L	.12	.12	.12
1-5L	.15	.15	.15	3-32L	.01	.03	.03
1-14L	.04	.04	.04	3-38L	.01	.01	.01
1-19L	.03	.03	.03	3-60L	.05	.05	.05
1-32L	.03	.03	.03	3-80L	.01	0	0
1-38L	.01	.01	.01	3-95L	.05	.05	.05
1-60L	.04	.04	.04	4-0C	.12	.19	.20
1-70L	.01	.03	.03	4-1.25U	.93	.96	1.00
1-80L	0	0	0	4-2.5U	.77	.79	.80
2-1.25U	.39	.43	.44	4-14U	.48	.49	.51
2-2.5U	.31	.32	.35	4-19U	.36	.36	.37
2-5U	.27	.28	.31	4-32U	.27	.28	.29
2-32U	.16	.19	.17	4-38U	.24	.27	.28
2-38U	.21	.23	.24	4-60U	.19	.20	.20
2-44U	.11	.13	.15	4-70U	.08	.08	.09
2-70U	.07	.07	.08	4-90U	.03	.03	.03
2-80U	.04	.04	.04	4-95U	.08	.08	.08
2-95U	.05	.04	.04	4-100C	.12	.12	.12
2-100C	.05	.04	.04	4-2.5L	.44	.45	.45
2-1.25L	.28	.28	.29	4-5L	.29	.29	.31
2-2.5L	.21	.21	.23	4-8L	.23	.23	.23
2-5L	.15	.15	.15	4-14L	.08	.09	.09
2-14L	.08	.08	.09	4-19L	.05	.07	.07
2-32L	.01	.01	.03	4-32L	.03	.04	.04
2-38L	.01	0	0	4-38L	.03	.03	.03
2-44L	.01	.01	.01	4-44L	.03	.03	.03
2-70L	.04	.04	.04	4-60L	.04	.04	.04
2-95L	.05	.05	.05	4-80L	.01	.01	.01

TABLE 8. - CONTINUED  
(c) - Continued

ORIFICE	$\delta_e = .20$	$\delta_e = .16$	$\delta_e = .12$	ORIFICE	$\delta_e = .20$	$\delta_e = .16$	$\delta_e = .12$
1-0C	.47	.45	.45	3-1.25U	-.93	-.99	1.63
1-1.25U	.29	.28	.35	3-8U	-.49	-.52	.53
1-2.5U	.20	.19	.19	3-14U	-.40	-.41	.44
1-5U	.09	.08	.08	3-19U	-.36	-.39	.39
1-8U	.01	0	0	3-32U	-.25	-.27	.28
1-14U	-.04	-.04	-.05	3-60U	-.13	-.15	.01
1-19U	-.11	-.12	-.13	3-70U	-.07	-.07	.07
1-32U	-.13	-.15	-.17	3-95U	.05	.04	.04
1-70U	-.13	-.15	-.15	3-1.25L	.56	.57	.59
1-80U	-.07	-.08	-.09	3-2.5L	.41	.44	.44
1-90U	-.04	-.04	-.05	3-5L	.27	.27	.28
1-95U	.03	.03	.12	3-8L	.21	.21	.23
1-2.5L	-.17	-.17	-.17	3-14L	.12	.13	.13
1-5L	-.15	-.13	-.15	3-32L	.03	.03	.03
1-14L	-.04	-.03	-.03	3-38L	-.01	-.01	.01
1-19L	-.03	-.01	-.01	3-60L	-.05	-.05	.05
1-32L	.03	.04	.04	3-80L	-.01	0	0
1-38L	-.01	0	0	3-95L	.05	.04	.04
1-60L	-.04	-.04	-.03	4-0C	-.27	-.33	.40
1-70L	-.03	-.01	-.03	4-1.25U	-1.04	-1.09	-1.12
1-80L	0	0	.01	4-2.5U	-.81	-.83	.85
2-1.25U	-.45	-.48	-.49	4-14U	-.52	-.53	.55
2-2.5U	-.36	-.40	-.43	4-19U	-.39	-.40	.41
2-5U	-.32	-.35	-.37	4-32U	-.31	-.31	.32
2-32U	-.20	-.23	-.24	4-38U	-.28	-.29	.31
2-38U	-.25	-.27	-.28	4-60U	-.21	-.21	.23
2-44U	-.16	-.16	-.17	4-70U	-.09	-.09	.11
2-70U	-.09	-.11	-.12	4-90U	.03	.03	.01
2-80U	-.05	-.08	-.07	4-95U	.08	.08	.07
2-95U	.04	.03	.03	4-100C	.12	.11	.11
2-100C	.04	.03	.01	4-2.5L	.47	.48	.48
2-1.25L	.28	.31	.31	4-5L	.32	.33	.33
2-2.5L	.21	.24	.24	4-8L	.24	.25	.25
2-5L	.15	.16	.16	4-14L	.11	.11	.11
2-14L	.08	.09	.09	4-19L	.07	.08	.08
2-32L	.01	.03	.03	4-32L	.04	.04	.04
2-38L	0	0	.01	4-38L	-.03	-.03	.03
2-44L	0	0	0	4-44L	-.03	-.03	.03
2-70L	.04	1.80	-.04	4-60L	-.04	-.04	.04
2-95L	.04	.04	.04	4-80L	.03	.01	.01



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 TABLE 8. - CONTINUED  
 (c) - Continued

ORIFICE	$\delta_e = .8$	$\delta_e = .4$	$\delta_e = 0$	ORIFICE	$\delta_e = .8$	$\delta_e = .4$	$\delta_e = 0$
1-0C	.47	.48	.48	3-1.25U	1.05	1.11	1.16
1-1.25U	.25	.24	.24	3-8U	.55	.56	.59
1-2.5U	.16	.15	.15	3-14U	.45	.32	.48
1-5U	.05	.04	.04	3-19U	.40	.28	.44
1-8U	.03	.04	.04	3-32U	.29	.31	.31
1-14U	.07	.08	.09	3-60U	.16	.16	.17
1-19U	.15	.16	.17	3-70U	.08	.08	.09
1-32U	.19	.20	.21	3-95U	.04	.04	.04
1-70U	.16	.16	.17	3-1.25L	.59	.60	.60
1-80U	.03	.11	.12	3-2.5L	.44	.45	.47
1-90U	.05	.07	.08	3-5L	.28	.29	.29
1-95U	.01	0	0	3-8L	.21	.23	.23
1-2.5L	.16	.15	.16	3-14L	.13	.15	.15
1-5L	.12	.12	.12	3-32L	.03	.03	.03
1-14L	.03	.01	.03	3-38L	.01	.01	.01
1-19L	.01	.01	.01	3-60L	.05	.05	.05
1-32L	.04	.04	.04	3-80L	0	0	0
1-38L	.01	0	0	3-95L	.04	.04	.04
1-60L	.04	.04	.04	4-0C	.44	.39	.49
1-70L	.03	.03	.03	4-1.25U	1.15	1.16	1.21
1-80L	.01	.01	.01	4-2.5U	.87	.89	.95
2-1.25U	.49	.39	.43	4-14U	.56	.57	.59
2-2.5U	.44	.47	.49	4-19U	.43	.44	.45
2-5U	.39	.40	.43	4-32U	.32	.33	.35
2-32U	.24	.25	.28	4-38U	.31	.28	.31
2-38U	.29	.31	.32	4-60U	.24	.23	.24
2-44U	.19	.13	.16	4-70U	.11	.11	.11
2-70U	.07	.13	.16	4-90U	.01	.01	.01
2-80U	0	.07	.08	4-95U	.07	.08	.07
2-95U	.03	.03	.01	4-100C	.11	.11	.11
2-100C	.01	.01	0	4-2.5L	.48	.49	.51
2-1.25L	.31	.31	.31	4-5L	.33	.35	.36
2-2.5L	.24	.25	.25	4-8L	.25	.25	.27
2-5L	.16	.17	.17	4-14L	.11	.12	.12
2-14L	.09	.11	.11	4-19L	.08	.08	.09
2-32L	.03	.03	.03	4-32L	.04	.04	.05
2-38L	.01	.01	.01	4-38L	.03	.03	.01
2-44L	0	0	0	4-44L	.03	.03	.01
2-70L	.04	.04	.04	4-60L	.04	.04	.03
2-95L	.03	.03	.03	4-80L	.01	.01	.01

TABLE 8. - CONTINUED  
(c) - Continued

ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$
1-0C	.49	.49	.49	3-1.25U	- 1.19	- 1.23	- 1.27
1-1.25U	.23	.23	.23	3-8U	- .61	- .63	- .64
1-2.5U	.13	.12	.12	3-14U	- .49	- .51	- .52
1-5U	.03	.01	.01	3-19U	- .45	- .47	- .48
1-8U	- .05	- .07	- .07	3-32U	- .33	- .33	- .35
1-14U	- .11	- .12	- .12	3-60U	- .19	- .19	- .20
1-19U	- .19	- .20	- .21	3-70U	- .11	- .11	- .11
1-32U	- .23	- .24	- .25	3-95U	.03	.03	.03
1-70U	- .19	- .19	- .20	3-1.25L	.60	.60	.60
1-80U	- .13	- .15	- .16	3-2.5L	.47	.47	.47
1-90U	- .08	- .09	- .11	3-5L	.29	.31	.31
1-95U	- .01	- .03	- .04	3-8L	.24	.24	.24
1-2.5L	- .15	- .15	- .16	3-14L	.15	.15	.16
1-5L	- .12	- .12	- .13	3-32L	.03	.03	.03
1-14L	- .03	- .01	- .03	3-38L	- .01	- .01	- .01
1-19L	- .01	- .01	- .01	3-60L	- .05	- .05	- .05
1-32L	.04	.04	.05	3-80L	- 0	- 0	- .01
1-38L	- 0	- 0	- 0	3-95L	.03	.03	.03
1-60L	- .04	- .04	- .04	4-0C	- .55	- .59	- .63
1-70L	- .03	- .03	- .04	4-1.25U	- 1.25	- 1.27	- 1.31
1-80L	- .01	- .12	- .03	4-2.5U	- .97	- 1.00	- 1.03
2-1.25U	- .47	- .51	- .53	4-14U	- .61	- .63	- .64
2-2.5U	- .52	- .55	- .56	4-19U	- .47	- .48	- .49
2-5U	- .44	- .47	- .48	4-32U	- .36	- .37	- .37
2-32U	- .29	- .31	- .32	4-38U	- .32	- .33	- .33
2-38U	- .33	- .35	- .36	4-60U	- .25	- .25	- .27
2-44U	- .17	- .19	- .20	4-70U	- .12	- .12	- .13
2-70U	- .16	- .17	- .19	4-90U	.01	.01	0
2-80U	- .09	- .11	- .11	4-95U	.07	.07	.05
2-95U	.01	.01	0	4-100C	.09	.09	.09
2-100C	- 0	- .01	- .01	4-2.5L	.51	.52	.52
2-1.25L	.31	.32	.32	4-5L	.36	.36	.37
2-2.5L	.25	.27	.27	4-8L	.27	.28	.28
2-5L	.19	.19	.19	4-14L	.12	.13	.13
2-14L	.11	.11	.11	4-19L	.09	.09	.09
2-32L	.03	.03	.03	4-32L	.05	.05	.05
2-38L	.01	.01	.01	4-38L	- .01	- .01	- .01
2-44L	- 0	- 0	- 0	4-44L	- .01	- .01	- .01
2-70L	.04	.03	.03	4-60L	- .04	- .04	- .04
2-95L	.03	.01	.01	4-80L	.01	.01	.01



TABLE 8. - CONTINUED  
(c) - Continued

ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$	ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$
1-0C	.50	.51	.50	3-1.25U	1.34	1.37	1.38
1-1.25U	.20	.19	.19	3-8U	.66	.70	.70
1-2.5U	.09	.05	.08	3-14U	.54	.58	.57
1-5U	0	.03	.01	3-19U	.50	.53	.38
1-8U	.09	.11	.11	3-32U	.36	.40	.39
1-14U	.14	.16	.16	3-60U	.20	.23	.23
1-19U	.23	.26	.26	3-70U	.12	.14	.12
1-32U	.27	.30	.31	3-95U	.03	.01	.01
1-70U	.22	.25	.23	3-1.25L	.61	.60	.62
1-80U	.18	.21	.20	3-2.5L	.49	.48	.49
1-90U	.12	.14	.14	3-5L	.31	.30	.32
1-95U	.04	.07	.07	3-8L	.26	.25	.26
1-2.5L	.14	.16	.14	3-14L	.15	.14	.16
1-5L	.11	.15	.12	3-32L	.03	.01	.03
1-14L	.01	.04	.01	3-38L	.01	.03	.01
1-19L	0	.03	0	3-60L	.07	.08	.05
1-32L	.04	.03	.04	3-80L	.01	.03	.01
1-38L	0	.03	0	3-95L	.03	.01	.03
1-60L	.04	.05	.05	4-0C	.70	.95	.95
1-70L	.04	.05	.04	4-1.25U	1.34	1.40	1.39
1-80L	.03	.04	.03	4-2.5U	1.05	1.10	1.11
2-1.25U	.57	.63	.64	4-14U	.66	.68	.68
2-2.5U	.59	.62	.23	4-19U	.51	.53	.53
2-5U	.50	.53	.53	4-32U	.39	.41	.41
2-32U	.34	.30	.36	4-38U	.35	.38	.38
2-38U	.38	.41	.41	4-60U	.27	.30	.28
2-44U	.22	.25	.24	4-70U	.14	.15	.14
2-70U	.20	.23	.23	4-90U	0	.01	0
2-80U	.11	.14	.14	4-95U	.05	.04	.05
2-95U	.01	.03	.01	4-100C	.09	.08	.09
2-100C	.03	.04	.04	4-2.5L	.53	.52	.54
2-1.25L	.32	.30	.32	4-5L	.38	.37	.38
2-2.5L	.27	.25	.27	4-8L	.28	.27	.30
2-5L	.20	.18	.20	4-14L	.14	.12	.14
2-14L	.12	.04	.12	4-19L	.09	.08	.09
2-32L	.03	.01	.03	4-32L	.05	.04	.05
2-38L	.01	0	.01	4-38L	.01	.03	.01
2-44L	0	.01	0	4-44L	.01	.03	.03
2-70L	.03	.01	.03	4-60L	.04	.05	.04
2-95L	.01	.01	0	4-80L	.01	0	.01

TABLE 8. - CONTINUED  
(c) - Continued

ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$	ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$
4-90L	.05	.05	.04	6-8L	.27	.28	.28
4-95L	.07	.07	.07	6-14L	.15	.16	.16
5-0C	- .30	- .36	- .39	6-19L	.11	.12	.12
5-1.25U	- 1.19	- 1.23	- 1.27	6-38L	- 0	- 0	- 0
5-8U	- .50	- .52	- .53	6-44L	- .03	- .03	- .03
5-14U	- .42	- .43	- .44	6-60L	- .05	- .05	- .05
5-19U	- .42	- .41	- .43	6-70L	- .03	- .03	- .03
5-38U	- .27	- .28	- .28	7-0C	- .91	- .97	- .97
5-44U	- .22	- .23	- .23	7-5U	- .76	- .77	- .77
5-60U	- .16	- .17	- .17	7-8U	- .57	- .59	- .60
5-70U	- .12	- .12	- .12	7-14U	- .45	- .45	- .45
5-80U	- .05	- .05	- .07	7-19U	- .39	- .40	- .40
5-90U	.03	.03	.03	7-38U	- .28	- .29	- .29
5-95U	.07	.05	.07	7-60U	- .16	- .16	- .16
5-1.25L	.61	.60	.61	7-90U	.03	.03	.03
5-2.5L	.50	.49	.51	7-95U	.08	.08	.08
5-5L	.32	.32	.33	7-1.25L	.62	.63	.63
5-8L	.24	.24	.24	7-2.5L	.51	.51	.51
5-14L	.15	.15	.15	7-5L	.35	.36	.36
5-19L	.08	.09	.09	7-8L	.26	.25	.25
5-38L	- 0	- 0	- 0	7-14L	.15	.15	.15
5-44L	- .01	- .01	- .01	7-19L	.09	.09	.09
5-60L	- .07	- .07	- .07	7-32L	.01	.03	.03
5-70L	.03	.03	.03	7-44L	- .01	- .01	- .01
5-90L	.05	.05	.05	7-60L	- .04	- .04	- .04
5-95L	.08	.08	.08	7-70L	- .03	- .03	- .03
6-0C	- .43	- .48	- .49	7-90L	.05	.05	.05
6-5U	- .74	- .76	- .77	7-95L	.08	.08	.08
6-14U	- .46	- .47	- .48	8-0C	- .93	- .99	- .97
6-19U	- 0	- 0	- 0	8-1.25U	- 1.20	- 1.24	- 1.24
6-32U	- .31	- .31	- .32	8-2.5U	- 1.03	- 1.04	- 1.05
6-44U	- .24	- .24	- .25	8-5U	- .72	- .73	- .73
6-60U	- .16	- .16	- .17	8-8U	- .58	- .59	- .59
6-70U	- .14	- .13	- .13	8-14U	- .43	- .43	- .43
6-80U	- .04	- .04	- .04	8-19U	- .36	- .37	- .37
6-90U	.03	.03	.03	8-60U	- .01	- .01	- .01
6-100C	.12	.12	.12	8-80U	- .01	- .01	- .01
6-1.25L	.64	.63	.63	8-90U	.04	.04	.04
6-2.5L	.47	.61	.48	8-95U	- .04	- .03	- .04
6-5L	.35	.36	.36	8-100C	.14	.13	.13



TABLE 8. - CONTINUED  
(c) - Continued

ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$	ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$
4-90L	.07	.04	.04	6-8L	.29	.29	.29
4-95L	2.07	.07	.07	6-14L	.16	.16	.17
5-0C	- .48	- .53	- .59	6-19L	.13	.13	.13
5-1.25U	- 1.35	- 1.40	- 1.45	6-38L	- 0	- 0	- 0
5-8U	- .56	- .57	- .59	6-44L	- .03	- .03	- .03
5-14U	- .45	- .47	- .48	6-60L	- .05	- .05	- .05
5-19U	- .44	- .45	- .47	6-70L	.03	.03	.03
5-38U	- .29	- .29	- .31	7-0C	- 1.09	- 1.13	- 1.23
5-44U	- .24	- .25	- .25	7-5U	- .81	- .83	- .84
5-60U	- .19	- .20	- .20	7-8U	- .61	- .63	- .64
5-70U	- .12	- .13	- .13	7-14U	- .47	- .48	- .48
5-80U	- .05	- .07	- .07	7-19U	- .41	- .43	- .43
5-90U	.03	.01	.01	7-38U	- .29	- .29	- .31
5-95U	.05	.05	.05	7-60U	- .17	- .17	- .17
5-1.25L	.61	.63	.63	7-90U	.03	.03	.03
5-2.5L	.51	.52	.52	7-95U	.08	.08	.07
5-5L	.35	.35	.35	7-1.25L	.64	.64	.64
5-8L	.25	.27	.27	7-2.5L	.52	.52	.53
5-14L	.16	.16	.16	7-5L	.37	.37	.39
5-19L	.09	.11	.11	7-8L	.27	.27	.28
5-38L	- 0	- 0	- 0	7-14L	.16	.16	0
5-44L	- 0	- .01	- 0	7-19L	.11	.11	.11
5-60L	- .07	- .07	- .07	7-32L	.03	.03	.03
5-70L	.03	.03	.03	7-44L	- .01	- .01	- .01
5-90L	.05	.05	.05	7-60L	- .04	- .04	- .04
5-95L	.08	.08	.08	7-70L	- .03	- .03	- .03
6-0C	- .60	- .64	- .71	7-90L	.05	.04	.04
6-5U	- .81	- .83	- .84	7-95L	.08	.08	.08
6-14U	- .49	- .49	- .52	8-0C	- 1.09	- 1.12	- 1.21
6-19U	.01	0	0	8-1.25U	- 1.29	- 1.32	- 1.36
6-32U	- .32	- .33	- .33	8-2.5U	- 1.09	- 1.11	- 1.13
6-44U	- .25	- .27	- .27	8-5U	- .76	- .77	- .79
6-60U	- .17	- .19	- .19	8-8U	- .61	- .61	- .63
6-70U	- .13	- .15	- .15	8-14U	- .44	- .45	- .47
6-80U	- .05	- .05	- .05	8-19U	- .39	- .40	- .41
6-90U	.03	.03	.03	8-60U	- .03	- .03	- .03
6-100C	.11	.11	.11	8-80U	- .03	- .03	- .03
6-1.25L	.64	.64	.64	8-90U	.04	.04	.04
6-2.5L	.49	.51	.51	8-95U	- .03	- .04	- .04
6-5L	.37	.37	.37	8-100C	.13	.13	.13

TABLE 8. - CONTINUED  
(c) - Continued

ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$	ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$
4-90L	.04	.04	.04	6-8L	.31	.31	.31
4-95L	.07	.05	.05	6-14L	.18	.17	.17
5-0C	- .65	- .68	- .73	6-19L	.14	.13	.13
5-1.25U	- 1.53	- 1.52	- 1.57	6-38L	- 0	- 0	- 0
5-8U	- .61	- .61	- .63	6-44L	- .03	- .01	- .03
5-14U	- .50	- .49	- .52	6-60L	- .05	- .05	- .05
5-19U	2.00	.48	.49	6-70L	.03	.03	.03
5-38U	- .32	- .31	- .32	7-0C	- 1.31	- 1.29	- 1.37
5-44U	- .26	- .27	- .27	7-5U	- .88	- .87	- .89
5-60U	- .20	- .20	- .21	7-8U	- .66	- .65	- .68
5-70U	- .14	- .13	- .15	7-14U	- .50	- .49	- .52
5-80U	- .07	- .07	- .08	7-19U	- .45	- .44	- .45
5-90U	.01	.01	.01	7-38U	- .32	- .32	- .33
5-95U	.05	.05	.05	7-60U	- .19	- .19	- .17
5-1.25L	.64	.64	.64	7-90U	.03	.03	.03
5-2.5L	.53	.53	.53	7-95U	.07	.08	.07
5-5L	.36	.36	.37	7-1.25L	.65	.64	.64
5-8L	.27	.27	.28	7-2.5L	.54	.53	.53
5-14L	.18	.17	.17	7-5L	.39	.41	.39
5-19L	.11	.11	.11	7-8L	.28	.28	.29
5-38L	- 0	- 0	- 0	7-14L	.18	.17	.17
5-44L	- 0	- 0	- 0	7-19L	.12	.11	.12
5-60L	- .07	- .07	- .07	7-32L	.04	.03	.03
5-70L	.03	.03	.03	7-44L	- .01	- .01	- .01
5-90L	.05	.05	.05	7-60L	- .04	- .04	- .04
5-95L	.08	.08	.07	7-70L	- .03	- .03	- .03
6-0C	- .77	- .77	- .84	7-90L	.04	.04	.04
6-5U	- .88	- .87	- .89	7-95L	.08	.08	.08
6-14U	- .54	- .51	- .55	8-0C	- 1.28	- 1.27	- 1.35
6-19U	.01	.01	0	8-1.25U	- 1.41	- 1.39	- 1.43
6-32U	- .34	- .31	- .32	8-2.5U	- 1.18	- 1.16	- 1.20
6-44U	- .27	- .24	- .25	8-5U	- .81	- .80	- .83
6-60U	- .19	- .20	- .20	8-8U	- .65	- .64	- .67
6-70U	- .15	- .15	- .16	8-14U	- .47	- .47	- .48
6-80U	- .05	- .05	- .05	8-19U	- .42	- .41	- .43
6-90U	.03	.03	.03	8-60U	- .03	- .01	- .01
6-100C	.11	.11	.11	8-80U	- .03	- .03	- .03
6-1.25L	.66	.65	.65	8-90U	0	.04	.04
6-2.5L	.51	.51	.52	8-95U	- .04	- .03	- .04
6-5L	.39	.39	.39	8-100C	.14	.13	.12



TABLE 8. - CONTINUED  
(c) - Continued

ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$
4-90L	.04	.03	.04	6-8L	.32	.32	.32
4-95L	.05	.05	.05	6-14L	.19	.19	.19
5-0C	- .84	- .88	- .95	6-19L	.15	.15	.15
5-1.25U	- 1.63	- 1.66	- 1.67	6-38L	.01	.01	0
5-8U	- .65	- .68	- .68	6-44L	- .01	- .01	.01
5-14U	- .53	- .55	- .56	6-60L	- .05	- .05	.05
5-19U	- .51	- .53	- .52	6-70L	.04	.03	.04
5-38U	- .33	- .34	- .35	7-0C	- 1.47	- 1.53	- 1.56
5-44U	- .28	- .30	- .29	7-5U	- .91	- .93	- .93
5-60U	- .21	- .22	- .23	7-8U	- .69	- .72	- .71
5-70U	- .15	- .16	- .16	7-14U	- .52	- .54	- .55
5-80U	- .08	- .08	- .08	7-19U	- .47	- .47	- .48
5-90U	.01	0	0	7-38U	- .33	- .34	- .35
5-95U	.05	.05	.04	7-60U	- .19	- .19	- .20
5-1.25L	.64	.65	.64	7-90U	.03	.03	.01
5-2.5L	.55	.55	.56	7-95U	.07	.07	.07
5-5L	.37	.39	.39	7-1.25L	.65	.65	.65
5-8L	.29	.30	.29	7-2.5L	.56	.55	.56
5-14L	.19	.19	.20	7-5L	.40	.41	.41
5-19L	.12	.12	.12	7-8L	.29	.31	.31
5-38L	.01	0	.01	7-14L	.17	.18	.19
5-44L	- 0	- 0	- 0	7-19L	.12	.12	.12
5-60L	- .07	- .07	- .07	7-32L	.04	.04	.04
5-70L	.03	.03	.03	7-44L	- .01	- .01	- .01
5-90L	.05	.04	.04	7-60L	- .04	- .04	- .04
5-95L	.08	.08	.08	7-70L	- .03	- .03	- .03
6-0C	- .92	- .97	- 1.03	7-90L	.04	.04	.04
6-5U	- .92	- .95	- .96	7-95L	.07	.08	.07
6-14U	- .56	- .57	- .57	8-0C	- 1.40	- 1.47	- 1.48
6-19U	- 0	- 0	- 0	8-1.25U	- 1.47	- 1.51	- 1.51
6-32U	- .33	- .34	- .35	8-2.5U	- 1.21	- 1.24	- 1.24
6-44U	- .27	- .27	- .28	8-5U	- .84	- .86	- .87
6-60U	- .20	- .20	- .21	8-8U	- .68	- .70	- .69
6-70U	- .16	- .16	- .16	8-14U	- .49	- .50	- .51
6-80U	- .07	- .07	- .07	8-19U	- .43	- .45	- .44
6-90U	.03	.03	.03	8-60U	.39	0	0
6-100C	.11	.11	.11	8-80U	- .03	- .03	- .03
6-1.25L	.65	.66	.65	8-90U	.03	.03	.03
6-2.5L	.53	.54	.53	8-95U	- .17	- .04	- .04
6-5L	.40	.41	.41	8-100C	.12	.12	.12

TABLE 8. - CONTINUED  
(c) - Continued

ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$	ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$
4-90L	.03	.03	.03	6-8L	.32	.32	.07
4-95L	.05	.05	.05	6-14L	.19	.19	.19
5-0C	- .99	- 1.01	- 1.11	6-19L	.15	.15	.15
5-1.25U	- 1.69	- 1.68	- 1.68	6-38L	.01	.01	.01
5-8U	- .70	- .70	- .73	6-44L	- .01	- .03	- .01
5-14U	- .57	- .58	- .59	6-60L	- .05	- .05	- .05
5-19U	- .54	- .55	- .57	6-70L	- .04	- .03	- .04
5-38U	- .35	- .36	- .36	7-0C	- 1.61	- 1.61	- 1.53
5-44U	- .30	- .31	- .31	7-5U	- .96	- .97	- .99
5-60U	- .23	- .23	- .24	7-8U	- .73	- .73	- .76
5-70U	- .16	- .16	- .16	7-14U	- .55	- .57	- .57
5-80U	- .08	- .09	- .09	7-19U	- .49	- .50	- .50
5-90U	- 0	- 0	- 0	7-38U	- .35	- .35	- .36
5-95U	.04	.04	.04	7-60U	- .20	- .20	- .20
5-1.25L	.66	.66	.66	7-90U	.01	.01	.01
5-2.5L	.57	.57	.57	7-95U	.07	.07	.07
5-5L	.39	.39	.41	7-1.25L	.66	.66	.66
5-8L	.30	.30	.31	7-2.5L	.57	.57	0
5-14L	.20	.20	.20	7-5L	.41	.41	.42
5-19L	.53	.12	.12	7-8L	.31	.31	.31
5-38L	- 0	- 0	- .01	7-14L	.19	.18	.19
5-44L	- 0	- 0	- 0	7-19L	.12	.12	.14
5-60L	- .07	- .07	- .07	7-32L	.04	.04	.04
5-70L	.03	.03	.03	7-44L	- .01	- .01	- .01
5-90L	.04	.04	.04	7-60L	- .04	- .04	- .04
5-95L	.07	.07	.07	7-70L	- .03	- .03	- .03
6-0C	- 1.05	- 1.07	- 1.18	7-90L	.04	.04	.04
6-5U	- .97	- .99	- 1.01	7-95L	.07	.07	.07
6-14U	- .58	- .59	- .59	8-0C	- 1.54	- 1.54	- 1.62
6-19U	- 0	- 0	- 0	8-1.25U	- 1.55	- 1.55	- 1.59
6-32U	- .36	- .36	- .38	8-2.5U	- 1.28	- 1.28	- 1.31
6-44U	- .28	- .30	- .30	8-5U	- .89	- .89	- .91
6-60U	- .22	- .22	- .23	8-8U	- .70	- .70	- .73
6-70U	- .16	- .16	- .18	8-14U	- .51	- .53	- .53
6-80U	- .07	- .07	- .07	8-19U	- .46	- .46	- .47
6-90U	.03	.03	.03	8-60U	- 0	- 0	- 0
6-100C	.11	.11	.09	8-80U	- .03	- .04	- .04
6-1.25L	.66	.66	.66	8-90U	.03	.03	.03
6-2.5L	.54	.54	.55	8-95U	- .18	- .04	- .05
6-5L	.42	.42	.43	8-100C	.12	.12	.12



TABLE 8. - CONTINUED  
(c) - Continued

ORIFICE	$\delta_e = .32$	$\delta_e = .28$	$\delta_e = .24$	ORIFICE	$\delta_e = .32$	$\delta_e = .28$	$\delta_e = .24$
8-1.25L	.59	.59	.60	11-32U	-.23	-.23	-.24
8-2.5L	.50	.51	.49	12-32U	-.34	-.35	-.36
8-5L	.34	.07	.33	TIP-32C	-.41	-.42	-.41
8-8L	.23	.23	.23	11-32L	-.14	-.15	-.15
8-14L	.14	.12	.13	10-32L	-.08	-.08	-.08
8-19L	.08	.09	.09	10-70U	-.08	-.09	-.09
8-32L	0	0	0	11-70U	-.34	-.36	-.37
8-38L	-.01	-.01	-.01	12-70U	-.23	-.23	-.24
8-44L	-.04	-.04	-.04	TIP-70C	.01	.01	.01
8-60L	-.04	-.04	-.04	12-70L	-.50	-.53	-.53
8-95L	.07	.07	.07	11-70L	-.18	-.19	-.19
9-0C	-.49	-.54	-.53	10-70L	-.09	-.09	-.09
9-1.25U	1.00	.32	.33	FIN-1	0	.01	.01
9-2.5U	-.93	-.96	-.95	FIN-2	-.05	-.05	-.05
9-5U	-.69	-.70	-.71	FIN-3	.01	0	0
9-14U	-.42	-.42	-.43	FIN-4	-.12	-.14	-.13
9-19U	-.35	-.36	-.36	FIN-5	-.03	-.04	-.04
9-32U	-.26	-.26	-.27	FIN-6	-.03	-.04	-.04
9-44U	-.16	-.16	-.16	FIN-7	-.11	-.09	-.07
9-70U	0	0	0	FIN-8	-.01	-.01	-.03
9-80U	0	0	0	FIN-9	-.07	-.07	-.05
9-100C	.11	.09	.09	FIN-10	-.07	-.07	-.07
9-1.25L	.57	.58	.57	FIN-11	-.08	-.08	-.08
9-5L	.32	.32	.32	FIN-12	-.05	-.05	-.05
9-8L	.19	.20	.20	FIN-13	-.03	-.03	0
9-14L	-.09	-.09	-.09	FIN-14	-.11	-.11	-.11
9-19L	.04	.04	.04	FIN-15	-.04	-.04	-.04
9-32L	-.07	-.07	-.07	FIN-16	-.01	-.03	-.03
9-38L	-.04	-.05	-.05	FIN-17	0	0	0
9-44L	-.03	-.03	-.03	FIN-18	-.01	-.01	-.03
9-70L	-.05	-.07	-.07	FIN-19	-.07	-.07	-.07
9-90L	.04	.04	.04	FIN-20	-.03	-.03	-.03
9-95L	.11	.11	.11	FIN-21	-.12	-.12	-.12
2S-60U	-.14	-.14	-.15	FIN-22	-.05	-.07	-.07
2S-60L	-.05	-.05	-.05	FIN-23	-.05	-.05	-.05
5S-60U	-.04	-.04	-.04	FIN-24	.01	0	.03
5S-60L	-.03	-.04	-.04	FIN-25	-.20	-.20	-.19
8S-60U	-.14	-.14	-.13	FIN-26	-.15	-.15	-.13
8S-60L	-.04	-.04	-.04	FIN-27	-.09	-.08	-.08
10-32U	.01	.01	.01	FIN-28	-.07	-.07	-.07

TABLE 8. - CONTINUED  
(c) - Continued

ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$	ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$
8-1.25L	.61	.61	.61	11-32U	.26	.26	.27
8-2.5L	.51	.51	.53	12-32U	.38	.39	.41
8-5L	.35	.35	.36	TIP-32C	.43	.45	.47
8-8L	.24	.24	.26	11-32L	.15	.15	.15
8-14L	.14	.14	.14	10-32L	.08	.08	.08
8-19L	.09	.09	.09	10-70U	.09	.09	.11
8-32L	0	0	.01	11-70U	.39	.41	.43
8-38L	.01	.01	.01	12-70U	.26	.26	.28
8-44L	.04	.04	.04	TIP-70C	.01	.01	.03
8-60L	.04	.04	.04	12-70L	.57	.57	.59
8-95L	.07	.07	.07	11-70L	.20	.20	.20
9-0C	.61	.62	.69	10-70L	.09	.09	.11
9-1.25U	1.07	1.09	1.14	FIN-1	.01	.01	.01
9-2.5U	.99	1.00	1.03	FIN-2	.04	.04	.04
9-5U	.73	.74	.76	FIN-3	.01	0	0
9-14U	.43	.45	.46	FIN-4	.14	.14	.14
9-19U	.38	.38	.39	FIN-5	.04	.04	.04
9-32U	.27	.27	.28	FIN-6	.04	.04	.04
9-44U	.18	.31	.18	FIN-7	.08	.09	.08
9-70U	.01	.01	.01	FIN-8	.01	.39	.01
9-80U	.01	.01	.01	FIN-9	.05	.05	.05
9-100C	.09	.09	.09	FIN-10	.07	.07	.07
9-1.25L	.58	.58	.61	FIN-11	.08	.08	.08
9-5L	.34	.34	.34	FIN-12	.05	.05	.04
9-8L	.20	.20	.20	FIN-13	.01	.01	.01
9-14L	.09	.09	.11	FIN-14	.11	.11	.11
9-19L	.05	.04	.05	FIN-15	.04	.04	.04
9-32L	.07	.07	.07	FIN-16	.01	.01	.03
9-38L	.05	.05	.05	FIN-17	0	0	0
9-44L	.03	.03	.03	FIN-18	.03	.01	.01
9-70L	.07	.07	.05	FIN-19	.05	.05	.07
9-90L	.04	.04	.03	FIN-20	.03	.03	.03
9-95L	.11	.11	.11	FIN-21	.12	.12	.11
2S-60U	.15	.15	.16	FIN-22	.07	.05	.07
2S-60L	.05	.05	.05	FIN-23	.05	.05	.04
5S-60U	.04	.04	.04	FIN-24	.01	.01	.01
5S-60L	.04	.04	.04	FIN-25	.19	.19	.19
8S-60U	.15	.15	.15	FIN-26	.15	.14	.14
8S-60L	.04	.04	.04	FIN-27	.08	.08	.08
10-32U	.01	.01	.01	FIN-28	.07	.07	.07



TABLE 8. -- CONTINUED  
(c) -- Continued

ORIFICE	$\delta_e = .8$	$\delta_e = .4$	$\delta_e = 0$	ORIFICE	$\delta_e = .8$	$\delta_e = .4$	$\delta_e = 0$
8-1.25L	.61	.61	.62	11-32U	-.28	-.28	-.30
8-2.5L	.53	.53	.54	12-32U	-.42	-.40	-.43
8-5L	.36	.37	.38	TIP-32C	-.47	-.48	-.50
8-8L	.26	.25	.26	11-32L	-.15	-.15	-.15
8-14L	.15	.15	.15	10-32L	-.08	-.08	-.08
8-19L	.11	.11	.11	10-70U	-.11	-.11	-.11
8-32L	.01	.01	.01	11-70U	-.45	-.44	-.47
8-38L	-.01	-.01	-.01	12-70U	-.28	-.28	-.30
8-44L	-.04	-.04	-.04	TIP-70C	-.01	-.01	-.01
8-60L	-.05	-.05	-.05	12-70L	-.62	-.61	-.64
8-95L	.07	.07	.07	11-70L	-.20	-.20	-.22
9-0C	-.73	-.75	-.81	10-70L	-.11	-.11	-.11
9-1.25U	1.16	1.15	1.20	FIN-1	-.01	-.01	-.01
9-2.5U	1.04	1.04	1.08	FIN-2	-.04	-.04	-.03
9-5U	.77	.76	.80	FIN-3	-.01	-.01	-.01
9-14U	.46	.45	.47	FIN-4	-.12	-.12	-.12
9-19U	.39	.39	.41	FIN-5	-.03	-.03	-.03
9-32U	.28	.28	.28	FIN-6	-.03	-.03	-.03
9-44U	.19	.19	.19	FIN-7	-.08	-.07	-.07
9-70U	.03	.01	.03	FIN-8	-.01	-.01	-.01
9-80U	.01	.01	.01	FIN-9	-.05	-.05	-.05
9-100C	.09	.09	.08	FIN-10	-.07	-.07	-.07
9-1.25L	.58	.59	.59	FIN-11	-.08	-.08	-.08
9-5L	.35	.35	.35	FIN-12	-.04	-.04	-.05
9-8L	.22	.21	.22	FIN-13	-.01	-.01	0
9-14L	.11	.11	.11	FIN-14	-.11	-.11	.11
9-19L	.07	.05	.05	FIN-15	-.04	-.04	-.04
9-32L	-.07	-.07	-.07	FIN-16	-.01	-.01	-.01
9-38L	-.05	-.05	-.05	FIN-17	0	0	0
9-44L	-.03	-.03	-.03	FIN-18	-.01	-.01	-.01
9-70L	-.07	-.05	-.07	FIN-19	-.05	-.07	-.07
9-90L	.03	.03	.03	FIN-20	-.03	-.03	-.03
9-95L	.11	.11	.11	FIN-21	-.11	-.11	-.11
28-60U	-.16	-.17	-.18	FIN-22	-.05	-.05	-.05
28-60L	-.07	-.07	-.07	FIN-23	-.04	-.05	-.04
58-60U	-.05	-.05	-.05	FIN-24	-.01	-.01	-.01
58-60L	-.05	-.04	-.05	FIN-25	-.19	-.19	-.18
88-60U	-.16	-.15	-.16	FIN-26	-.14	-.13	-.14
88-60L	-.05	-.04	-.05	FIN-27	-.08	-.08	-.08
10-32U	.01	.01	.01	FIN-28	-.07	-.07	-.07

TABLE 8. - CONTINUED  
(c) - Continued

ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$
8-1.25L	.62	.62	.62	11-32U	-.30	-.31	-.31
8-2.5L	.54	.54	.55	12-32U	-.45	-.46	-.46
8-5L	.38	.38	.39	TIP-32C	-.51	-.53	-.53
8-8L	.20	.27	.27	11-32L	-.16	-.16	-.16
8-14L	.15	.15	.16	10-32L	-.08	-.08	-.08
8-19L	.11	.11	.11	10-70U	-.12	-.12	-.12
8-32L	.01	.01	.01	11-70U	-.47	-.50	-.50
8-38L	-.01	-.01	-.01	12-70U	-.31	-.32	-.32
8-44L	-.04	-.04	-.04	TIP-70C	.01	.01	.03
8-60L	-.05	-.07	-.07	12-70L	-.66	-.68	-.68
8-95L	.07	.07	.07	11-70L	-.22	-.22	-.23
9-0C	-.84	-.88	-.89	10-70L	-.11	-.12	-.11
9-1.25U	1.22	1.24	1.26	FIN-1	.01	.01	.03
9-2.5U	1.09	1.11	1.12	FIN-2	-.03	-.03	-.03
9-5U	.81	.81	.82	FIN-3	.01	.01	0
9-14U	.47	.49	.49	FIN-4	-.12	-.12	-.12
9-19U	.41	.42	.42	FIN-5	-.16	-.03	-.03
9-32U	-.28	-.30	-.30	FIN-6	-.16	-.03	-.03
9-44U	-.19	-.20	-.20	FIN-7	-.07	-.07	-.05
9-70U	-.03	-.04	-.04	FIN-8	-.01	-.01	-.01
9-80U	-.01	-.01	-.03	FIN-9	-.05	-.05	-.05
9-100C	.08	.08	.08	FIN-10	-.07	-.07	-.07
9-1.25L	.59	.59	.61	FIN-11	-.08	-.08	-.08
9-5L	.36	.36	.36	FIN-12	-.04	-.05	-.04
9-8L	.22	.24	.23	FIN-13	0	0	0
9-14L	.11	.11	.11	FIN-14	-.11	-.11	-.11
9-19L	.05	.05	.05	FIN-15	-.04	-.04	-.04
9-32L	-.07	-.07	-.07	FIN-16	-.01	-.01	-.01
9-38L	-.05	-.05	-.05	FIN-17	0	0	0
9-44L	-.03	-.03	-.03	FIN-18	-.01	-.03	-.01
9-70L	-.07	-.07	-.07	FIN-19	-.05	-.07	-.05
9-90L	.03	.03	.03	FIN-20	-.03	-.03	-.03
9-95L	.11	.09	.09	FIN-21	-.11	-.11	-.11
2S-60U	-.19	-.20	-.20	FIN-22	-.05	-.07	-.05
2S-60L	-.07	-.07	-.07	FIN-23	-.04	-.04	-.04
5S-60U	-.05	-.07	-.07	FIN-24	.01	.01	.03
5S-60L	-.05	-.05	-.05	FIN-25	-.18	-.14	-.18
8S-60U	-.16	-.16	-.18	FIN-26	-.14	-.14	-.14
8S-60L	-.05	-.05	-.05	FIN-27	-.08	-.08	-.22
10-32U	.01	.01	.03	FIN-28	-.08	-.08	-.20



TABLE 8. - CONCLUDED  
(c) - Concluded

ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$	ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$
8-1.25L	.62	.63	.63	11-32U	- .32	- .33	- .34
8-2.5L	.55	.56	.56	12-32U	- .46	- .48	- .49
8-5L	.39	.38	.40	TIP-32C	- .54	- .55	- .55
8-8L	.27	.27	.27	11-32L	- .16	- .16	- .16
8-14L	.16	.16	.16	10-32L	- .08	- .08	- .08
8-19L	.11	.11	.11	10-70U	- .12	- .14	- .12
8-32L	.01	.01	.01	11-70U	- .51	- .52	- .52
8-38L	- .01	- .01	- .01	12-70U	- .34	- .34	- .36
8-44L	- .04	- .04	- .04	TIP-70C	.03	.03	.03
8-60L	1.96	.07	.07	12-70L	- .69	- .71	- .73
8-95L	.05	.05	.05	11-70L	- .23	- .23	- .23
9-0C	- .92	- .95	- .97	10-70L	- .11	- .12	- .12
9-1.25U	- 1.27	- 1.29	- 1.32	FIN-1	.03	.03	.01
9-2.5U	- 1.14	- 1.16	- 1.18	FIN-2	- .03	- .03	- .03
9-5U	- .82	- .85	- .86	FIN-3	- 0	- 0	- .01
9-14U	- .49	- .51	- .51	FIN-4	- .12	- .12	- .14
9-19U	- .42	- .44	- .42	FIN-5	- .03	- .03	- .03
9-32U	- .30	- .30	- .32	FIN-6	- .03	- .03	- .03
9-44U	- .14	- .21	- .21	FIN-7	- .07	- .05	- .05
9-70U	- .04	- .04	- .04	FIN-8	- .01	- .01	- .03
9-80U	- .03	- .03	- .03	FIN-9	- .05	- .05	- .05
9-100C	.08	.08	.08	FIN-10	- .07	- .07	- .07
9-1.25L	.61	.62	.62	FIN-11	- .08	- .08	- .08
9-5L	.36	.37	.37	FIN-12	- .05	- .04	- .05
9-8L	.23	.23	.23	FIN-13	- 0	- 0	- 0
9-14L	.11	.12	.12	FIN-14	- .11	- .11	- .11
9-19L	.05	.05	.05	FIN-15	- .04	- .04	- .04
9-32L	- .07	- .07	- .07	FIN-16	- .01	- .01	- .01
9-38L	- .05	- .05	- .05	FIN-17	- 0	- 0	- 0
9-44L	- .03	- .03	- .03	FIN-18	- .03	- .01	- .03
9-70L	- .07	- .07	- .07	FIN-19	- .05	- .05	- .05
9-90L	.03	.03	.03	FIN-20	- .03	- .03	- .04
9-95L	.09	.10	.10	FIN-21	- .11	- .11	- .11
2S-60U	- .22	- .22	- .23	FIN-22	- .05	- .05	- .05
2S-60L	- .08	- .08	- .08	FIN-23	- .04	- .04	- .05
5S-60U	- .07	- .07	- .07	FIN-24	.03	.03	.03
5S-60L	- .05	- .05	- .05	FIN-25	- .18	- .18	- .18
8S-60U	- .18	- .18	- .18	FIN-26	- .14	- .14	- .14
8S-60L	- .05	- .05	- .05	FIN-27	- .08	- .08	- .08
10-32U	.03	.03	.03	FIN-28	- .07	- .07	- .07

TABLE 9. - EFFECT OF ELERUDDER DEFLECTION ON THE PRESSURE COEFFICIENTS OVER THE TAIL, CLEAN CONDITION;  $\beta$ , -  $8^\circ$ . (a)  $\alpha$ ,  $0^\circ$ .

ORIFICE	$\delta_e = -2.8$	$\delta_e = -2.4$	$\delta_e = -2.0$	ORIFICE	$\delta_e = -2.8$	$\delta_e = -2.4$	$\delta_e = -2.0$
1-0C	.24	.23	.20	3-1.25U	.88	.91	.97
1-1.25U	.81	.84	.86	3-8U	.46	.47	.51
1-2.5U	.59	.61	.64	3-14U	.38	.39	.42
1-5U	.32	.34	.34	3-19U	.35	.36	.38
1-8U	.30	.31	.34	3-32U	.24	.26	.27
1-14U	.18	.19	.22	3-60U	.14	.15	.15
1-19U	.19	.20	.22	3-70U	.08	.09	.11
1-32U	.11	.12	.14	3-95U	.08	.08	.08
1-70U	.15	.15	.16	3-1.25L	.62	.64	.65
1-80U	.01	.03	.04	3-2.5L	.45	.46	.47
1-90U	.01	0	0	3-5L	.26	.27	.28
1-95U	.09	.08	.08	3-8L	.20	.20	.22
1-2.5L	.51	.51	.53	3-14L	.09	.09	.11
1-5L	.35	.35	.35	3-32L	.01	0	0
1-14L	.16	.16	.16	3-38L	.05	.08	.05
1-19L	.09	.11	.11	3-60L	.08	.08	.08
1-32L	.07	.07	.07	3-80L	.01	0	0
1-38L	.01	.01	.01	3-95L	.09	.09	.08
1-60L	.04	.04	.04	4-0C	.12	.09	.05
1-70L	.01	.01	.01	4-1.25U	.86	.89	.95
1-80L	.01	.01	.01	4-2.5U	.59	.78	.84
2-1.25U	.86	.86	.86	4-14U	.50	.51	.53
2-2.5U	.73	.76	.80	4-19U	.36	.38	.39
2-5U	.53	.54	.45	4-32U	.28	.30	.31
2-32U	.19	.20	.22	4-38U	.28	.28	.30
2-38U	.24	.26	.27	4-60U	.22	.22	.23
2-44U	.15	.16	.16	4-70U	.08	.08	.09
2-70U	.04	.04	.07	4-90U	.03	.03	.03
2-80U	.01	.01	.03	4-95U	.09	.09	.09
2-95U	.11	.09	.09	4-100C	.16	.16	.15
2-100C	.12	.12	.12	4-2.5L	.46	.46	.47
2-1.25L	.65	.65	.66	4-5L	.28	.28	.30
2-2.5L	.46	.47	.47	4-8L	.22	.22	.22
2-5L	.28	.30	.30	4-14L	.07	.07	.07
2-14L	.09	.11	.11	4-19L	.01	.01	.01
2-32L	0	0	0	4-32L	0	0	0
2-38L	.03	.03	.03	4-38L	.07	.07	.07
2-44L	.05	.04	.04	4-44L	.07	.07	.05
2-70L	.07	.07	.07	4-60L	.05	.05	.05
2-95L	.08	.08	.08	4-80L	.01	.01	.01



TABLE 9. - CONTINUED  
(a) - Continued

ORIFICE	$\delta_e = -1.6$	$\delta_e = -1.2$	$\delta_e = -.8$	ORIFICE	$\delta_e = -1.6$	$\delta_e = -1.2$	$\delta_e = -.8$
1-0C	.19	.19	.14	3-1.25U	.99	1.01	1.05
1-1.25U	.88	.89	.93	3-8U	.53	.54	.55
1-2.5U	.66	.66	.70	3-14U	.43	.45	.47
1-5U	.35	.36	.38	3-19U	.39	.41	.43
1-8U	.35	.35	.38	3-32U	.28	.30	.31
1-14U	.22	.23	.24	3-60U	.16	.18	.19
1-19U	.23	.24	.26	3-70U	.11	.12	.14
1-32U	.15	.16	.45	3-95U	.08	.08	.08
1-70U	.18	.18	.18	3-1.25L	.65	.66	.68
1-80U	.04	.07	.07	3-2.5L	.47	.49	.49
1-90U	.01	.01	.03	3-5L	.28	.28	.28
1-95U	.08	.07	.07	3-8L	.22	.22	.23
1-2.5L	.53	.53	.54	3-14L	.11	.11	.11
1-5L	.35	.35	.36	3-32L	0	0	0
1-14L	.18	.16	.18	3-38L	.05	.05	.05
1-19L	.11	.11	.11	3-60L	.08	.08	.08
1-32L	.07	.07	.08	3-80L	0	0	0
1-38L	.01	.01	.01	3-95L	.08	.08	.08
1-60L	.05	.05	.05	4-0C	.03	.03	.05
1-70L	.01	.03	.03	4-1.25U	.97	1.01	1.05
1-80L	0	0	0	4-2.5U	.86	.89	.92
2-1.25U	.84	.80	.74	4-14U	.54	.55	.57
2-2.5U	.81	.82	.85	4-19U	.41	.42	.43
2-5U	.59	.61	.64	4-32U	.32	.32	.34
2-32U	.23	.24	.26	4-38U	.31	.31	.32
2-38U	.28	.31	.32	4-60U	.24	.24	.26
2-14U	.16	.16	.15	4-70U	.09	.09	.11
2-70U	.08	.09	.11	4-90U	.01	.01	.01
2-80U	.04	.04	.05	4-95U	.08	.08	.08
2-95U	.09	.08	.09	4-100C	.15	.15	.15
2-100C	.11	.11	.11	4-2.5L	.47	.49	.50
2-1.25L	.66	.68	.68	4-5L	.30	.31	.31
2-2.5L	.49	.49	.50	4-8L	.23	.23	.23
2-5L	.30	.30	.31	4-14L	.08	.08	.08
2-14L	.12	.11	.12	4-19L	.01	.01	.01
2-32L	0	0	0	4-32L	0	0	0
2-38L	.03	.04	.03	4-38L	.07	.07	.07
2-44L	.04	.05	.04	4-44L	.05	4.11	.05
2-70L	.07	.07	.07	4-60L	.05	4.11	.05
2-95L	.08	.07	.07	4-80L	.01	.01	.01

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 TABLE 9. - CONTINUED  
 (a) - Continued

ORIFICE	$\delta_e = -4$	$\delta_e = 0$	$\delta_e = 4$	ORIFICE	$\delta_e = -4$	$\delta_e = 0$	$\delta_e = 4$
1-0C	.10	.14	.08	3-1.25U	1.11	1.12	1.13
1-1.25U	.97	.95	.97	3-8U	.59	.59	.60
1-2.5U	.74	.72	.73	3-14U	.48	.49	.49
1-5U	.40	.38	.40	3-19U	.45	.31	.45
1-8U	.40	.39	.40	3-32U	.33	.32	.33
1-14U	.27	.27	.27	3-60U	.19	.19	.20
1-19U	.27	.27	.28	3-70U	.15	.15	.15
1-32U	.21	.20	.21	3-95U	.07	.07	.07
1-70U	.19	.19	.19	3-1.25L	.67	.68	.68
1-80U	.08	.08	.09	3-2.5L	.49	.50	.51
1-90U	.04	.04	.04	3-5L	.30	.31	.31
1-95U	.04	.05	.04	3-8L	.22	.23	.24
1-2.5L	.53	.54	.55	3-14L	.11	.12	.12
1-5L	.36	.36	.37	3-32L	0	0	.01
1-14L	.18	.18	.19	3-38L	.05	.04	.04
1-19L	.11	.11	.12	3-60L	.10	.08	.09
1-32L	.07	.08	.08	3-80L	.01	0	0
1-38L	.01	.03	.03	3-95L	.07	.07	.07
1-60L	.05	.05	.05	4-0C	.05	.08	.12
1-70L	.04	.03	.03	4-1.25U	1.08	1.11	1.13
1-80L	.01	.01	.01	4-2.5U	.97	.97	.99
2-1.25U	.88	.89	.92	4-14U	.59	.58	.59
2-2.5U	.89	.89	.89	4-19U	.45	.45	.45
2-5U	.67	.66	.68	4-32U	.36	.35	.36
2-32U	.14	.27	.28	4-38U	.29	.31	.32
2-38U	.34	.34	.35	4-60U	.26	.26	.27
2-44U	.15	.16	.17	4-70U	.12	.12	.12
2-70U	.12	.09	.13	4-90U	.01	.01	.01
2-80U	.05	.05	.05	4-95U	.08	.08	.08
2-95U	.08	.08	.08	4-100C	.15	.15	.15
2-100C	.10	.09	.09	4-2.5L	.49	.50	.51
2-1.25L	.68	.69	.68	4-5L	.32	.32	.33
2-2.5L	.49	.50	.51	4-8L	.23	.24	.25
2-5L	.32	.32	.32	4-14L	.07	.08	.08
2-14L	.12	.12	.17	4-19L	.01	.03	.03
2-32L	0	0	0	4-32L	0	.01	.01
2-38L	.04	.03	.03	4-38L	.07	.07	.05
2-44L	.05	.04	.04	4-44L	.07	.07	.05
2-70L	.05	.05	.05	4-60L	.07	.07	.05
2-95L	.07	.07	.05	4-80L	0	.03	.01



ORIFICE	$\delta_e = 8$	$\delta_e = 12$	$\delta_e = 16$	ORIFICE	$\delta_e = 8$	$\delta_e = 12$	$\delta_e = 16$
1-0C	.07	.05	.03	3-1.25U	1.17	1.22	1.26
1-1.25U	1.00	1.01	1.05	3-8U	.61	.65	.66
1-2.5U	.75	.78	.80	3-14U	.51	.53	.54
1-5U	.41	.43	.45	3-19U	.47	.49	.50
1-8U	.41	.43	.45	3-32U	.35	.36	.38
1-14U	.28	.30	.31	3-60U	.20	.22	.22
1-19U	.29	.31	.32	3-70U	.16	.18	.18
1-32U	.23	.24	.26	3-95U	.07	.07	.07
1-70U	.19	.20	.20	3-1.25L	.69	.70	.70
1-80U	.09	.12	.12	3-2.5L	.52	.53	.54
1-90U	.05	.07	.08	3-5L	.32	.32	.34
1-95U	.03	.01	0	3-8L	.24	.24	.26
1-2.5L	.55	.54	.55	3-14L	.13	.14	.14
1-5L	.37	.38	.38	3-32L	.01	0	.03
1-14L	.19	.19	.19	3-38L	.04	.05	.04
1-19L	.12	.12	.12	3-60L	.08	.09	.09
1-32L	.08	.08	.08	3-80L	0	.01	.01
1-38L	.03	.03	.03	3-95L	.07	.07	.07
1-60L	.05	.05	.05	4-0C	.16	.19	.22
1-70L	.03	.04	.04	4-1.25U	1.16	1.22	1.26
1-80L	.01	.01	.03	4-2.5U	1.01	1.04	1.07
2-1.25U	.96	1.04	1.07	4-14U	.60	.62	.64
2-2.5U	.91	.93	.95	4-19U	.47	.49	.50
2-5U	1.09	.73	.74	4-32U	.36	.38	.39
2-32U	.29	.31	.32	4-38U	.33	.35	.35
2-38U	.36	.38	.39	4-60U	.27	.27	.28
2-44U	.19	.20	.20	4-70U	.12	.12	.14
2-70U	.15	.16	.18	4-90U	.01	0	0
2-80U	.07	.08	.08	4-95U	.08	.08	.07
2-95U	.08	.07	.07	4-100C	.15	.15	.14
2-100C	.08	.08	.08	4-2.5L	.52	.53	.54
2-1.25L	.69	.70	.70	4-5L	.33	.34	.35
2-2.5L	.51	.53	.54	4-8L	.25	.26	.27
2-5L	.33	.34	.34	4-14L	.09	.09	.09
2-14L	.13	.14	.14	4-19L	.03	.03	.04
2-32L	.01	0	.01	4-32L	.01	.01	.01
2-38L	.03	.03	.03	4-38L	.05	.05	.05
2-44L	.04	.04	.04	4-44L	.05	.05	.05
2-70L	.05	.05	.05	4-60L	.05	.05	.05
2-95L	.05	.05	.04	4-80L	.01	.01	0

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 TABLE 9. - CONTINUED  
 (a) - Continued

ORIFICE	$\delta_e = .20$	$\delta_e = .24$	ORIFICE	$\delta_e = .20$	$\delta_e = .24$
1-0C	.01	.01	3-1.25U	1.27	1.32
1-1.25U	1.05	1.08	3-8U	.67	.70
1-2.5U	.80	.82	3-14U	.56	.57
1-5U	.45	.47	3-19U	.51	.53
1-8U	.45	0	3-32U	.37	.39
1-14U	.32	.34	3-60U	.23	.24
1-19U	.33	.35	3-70U	.19	.19
1-32U	.27	.28	3-95U	.05	.05
1-70U	.21	.22	3-1.25L	.69	.72
1-80U	.13	.15	3-2.5L	.53	.54
1-90U	.31	.11	3-5L	.33	.35
1-95U	.31	.03	3-8L	.25	.26
1-2.5L	.55	.55	3-14L	.13	.14
1-5L	.37	.38	3-32L	.01	.01
1-14L	.19	.19	3-38L	.04	.04
1-19L	.12	.12	3-60L	.09	.09
1-32L	.08	.08	3-80L	.01	.01
1-38L	.03	.01	3-95L	.07	.05
1-60L	.05	.05	4-0C	.27	.28
1-70L	.04	.04	4-1.25U	1.31	1.34
1-80L	.03	.03	4-2.5U	1.05	1.07
2-1.25U	1.09	1.15	4-14U	.64	.66
2-2.5U	.95	.97	4-19U	.37	.53
2-5U	.76	.57	4-32U	.40	.41
2-32U	.33	.35	4-38U	.37	.38
2-38U	.40	.42	4-60U	.29	.30
2-44U	.23	.23	4-70U	.13	.14
2-70U	.19	.20	4-90U	0	0
2-80U	.09	.11	4-95U	1.80	.07
2-95U	.05	.05	4-100C	.13	.14
2-100C	.07	.07	4-2.5L	.53	.55
2-1.25L	.71	.72	4-5L	.36	.36
2-2.5L	.53	.54	4-8L	.27	.27
2-5L	.35	.35	4-14L	.11	.11
2-14L	.15	.15	4-19L	.04	.04
2-32L	.01	.01	4-32L	.01	.01
2-38L	.03	.03	4-38L	.05	.07
2-44L	.04	.04	4-44L	.05	.05
2-70L	.04	.04	4-60L	.05	.07
2-95L	.04	.03	4-80L	.01	0



TABLE 9.- CONTINUED  
(a)- Continued

ORIFICE	$\delta_e=-28$	$\delta_e=-24$	$\delta_e=-20$	ORIFICE	$\delta_e=-28$	$\delta_e=-24$	$\delta_e=-20$
4-90L	.07	.07	.05	6-8L	.23	.23	.25
4-95L	.08	.09	.08	6-14L	.09	.11	.11
5-0C	.12	.11	.05	6-19L	.05	.05	.05
5-1.25U	- 1.01	- 1.04	- 1.10	6-38L	- .05	- .05	- .05
5-8U	- .47	- .49	- .51	6-44L	- .07	- .07	- .07
5-14U	- .42	- .42	- .44	6-60L	- .09	- .09	- .10
5-19U	- .41	- .42	- .44	6-70L	- .01	- 0	- 0
5-38U	- .28	- .30	- .30	7-0C	- .24	- .26	- .30
5-44U	- .23	- .23	- .25	7-5U	- .69	- .69	- .71
5-60U	- .19	- .20	- .21	7-8U	- .53	- .53	- .56
5-70U	- .12	- .14	- .14	7-14U	- .42	- .42	- .44
5-80U	- .07	- .07	- .07	7-19U	- .38	- .39	- .41
5-90U	.03	.03	.03	7-38U	- .31	- .31	- .33
5-95U	.08	.07	.07	7-60U	- .18	- .19	- .19
5-1.25L	.64	.64	.66	7-90U	.03	.03	.03
5-2.5L	.47	.47	.49	7-95U	.09	.09	.10
5-5L	.28	.28	.30	7-1.25L	.66	.66	.67
5-3L	.22	.22	.23	7-2.5L	.47	.61	.49
5-14L	.09	.09	.11	7-5L	.30	.30	.32
5-19L	.04	.04	.04	7-8L	.19	.19	.21
5-38L	- .07	- .07	- .07	7-14L	.08	.08	.10
5-44L	- .05	- .05	- .05	7-19L	.03	.03	.04
5-60L	- .11	- .11	- .11	7-32L	- .03	- .03	- .03
5-70L	.03	.03	.01	7-44L	- .05	- .05	- .05
5-90L	.07	.07	.05	7-60L	- .07	- .07	- .07
5-95L	.09	.09	.10	7-70L	- .04	- .04	- .04
6-0C	.11	.09	.05	7-90L	.05	.05	.05
6-5U	- .69	- .70	- .73	7-95L	.11	.11	.10
6-14U	- .45	- .46	- .48	8-0C	- .18	- .19	- .23
6-19U	- .03	- .04	- .03	8-1.25U	- .99	- 1.00	- 1.04
6-32U	- .30	- .30	- .30	8-2.5U	- .91	- .92	- .96
6-44U	- .24	- .24	- .25	8-5U	- .61	- .61	- .64
6-60U	- .19	- .19	- .21	8-8U	- .51	- .51	- .55
6-70U	- .15	- .16	- .16	8-14U	- .39	- .41	- .41
6-80U	- .05	- .05	- .07	8-19U	- .35	- .36	- .37
6-90U	- .01	- .01	- .01	8-60U	.38	.36	.37
6-100C	.15	.16	.15	8-80U	- .03	- .03	- .03
6-1.25L	.66	.66	.68	8-90U	.04	.04	.04
6-2.5L	.45	.45	.47	8-95U	.05	.05	.05
6-5L	.30	.30	.32	8-100C	.16	.16	.16

TABLE 9.- CONTINUED  
(a)- Continued

ORIFICE	$\delta_e=-16$	$\delta_e=-12$	$\delta_e=-8$	ORIFICE	$\delta_e=-16$	$\delta_e=-12$	$\delta_e=-8$
4-90L	.07	.05	.05	6-8L	.24	.26	.26
4-95L	.08	.08	.08	6-14L	.11	.11	.11
5-0C	- 0	- .03	- .07	6-19L	.07	.07	.07
5-1.25U	- 1.14	- 1.16	- 1.22	6-38L	- .05	- .05	- .04
5-8U	- .53	- .54	- .57	6-44L	- .07	- .05	- .05
5-14U	- .46	- .47	- .49	6-60L	- .09	- .09	- .09
5-19U	- .45	- .46	- .47	6-70L	- 0	- 0	- .01
5-38U	- .31	- .32	- .32	7-0C	- .35	- .41	- .43
5-44U	- .26	- .26	- .27	7-5U	- .73	- .76	- .77
5-60U	- .20	- .22	- .22	7-8U	- .57	- .57	- .59
5-70U	- .14	- .15	- .15	7-14U	- .45	- .46	- .47
5-80U	- .08	- .08	- .08	7-19U	- .41	- .42	- .43
5-90U	.03	.03	.01	7-38U	- .32	- .34	- .34
5-95U	.07	.07	.07	7-60U	- .20	- .20	- .20
5-1.25L	.66	.66	.68	7-90U	.03	.03	.01
5-2.5L	.50	.51	.51	7-95U	.09	.09	.08
5-5L	.31	.31	.32	7-1.25L	.68	.69	.69
5-8L	.23	.23	.24	7-2.5L	.50	.51	.51
5-14L	.11	.11	.11	7-5L	.31	.32	.32
5-19L	.05	.05	.05	7-8L	.22	.22	.22
5-38L	- .05	- .05	- .05	7-14L	.09	.11	.11
5-44L	- .05	- .05	- .04	7-19L	.04	.04	.04
5-60L	- .11	- .11	- .11	7-32L	- .03	- .03	- .03
5-70L	.03	.03	.03	7-44L	- .05	- .05	- .05
5-90L	.05	.05	.05	7-60L	- .07	- .07	- .07
5-95L	.09	.09	.09	7-70L	- .04	- .04	- .04
6-0C	.01	.03	.05	7-90L	.05	.05	.05
6-5U	- .74	- .77	- .78	7-95L	.11	.09	.09
6-14U	- .49	- .50	- .50	8-0C	- .27	- .31	- .35
6-19U	- .04	- .04	- .03	8-1.25U	- 1.07	- 1.09	- 1.11
6-32U	- .28	- .26	- .23	8-2.5U	- .96	- .97	- .99
6-44U	- .23	- .22	- .19	8-5U	- .65	- .68	- .69
6-60U	- .20	- .22	- .22	8-8U	- .55	- .57	- .57
6-70U	- .16	- .16	- .18	8-14U	- .42	- .43	- .43
6-80U	- .07	- .07	- .07	8-19U	- .38	- .39	- .39
6-90U	- .01	- .01	- .01	8-60U	.38	.38	.38
6-100C	.15	.15	.15	8-80U	- .04	- .04	- .04
6-1.25L	.68	.69	.70	8-90U	.04	.03	.03
6-2.5L	.47	.47	.62	8-95U	- .05	- .05	- .07
6-5L	.32	.34	.34	8-100C	.16	.15	.15



TABLE 9.- CONTINUED  
(a)- Continued

ORIFICE	$\delta_e = -4$	$\delta_e = 0$	$\delta_e = 4$	ORIFICE	$\delta_e = -4$	$\delta_e = 0$	$\delta_e = 4$
4-90L	.05	.05	.04	6-8L	.26	.26	.27
4-95L	.08	.08	.08	6-14L	.12	.12	.12
5-0C	-.08	-.09	-.19	6-19L	.07	.20	.08
5-1.25U	1.20	1.24	1.31	6-38L	-.04	-.05	-.04
5-8U	-.57	-.58	-.59	6-44L	-.05	-.05	-.05
5-14U	-.49	-.50	-.51	6-60L	-.09	-.09	-.09
5-19U	-.47	-.49	-.50	6-70L	-.01	0	-.01
5-38U	-.31	-.34	-.34	7-0C	-.46	-.36	-.54
5-44U	-.27	-.27	-.28	7-5U	-.77	-.51	-.80
5-60U	-.22	-.23	-.23	7-8U	-.58	-.59	-.62
5-70U	-.15	-.16	-.16	7-14U	-.46	-.47	-.49
5-80U	-.08	-.08	-.08	7-19U	-.42	-.43	-.45
5-90U	.01	.01	.01	7-38U	-.34	-.35	-.35
5-95U	.07	.07	.07	7-60U	-.20	-.20	-.22
5-1.25L	.68	.68	.70	7-90U	.03	.01	.01
5-2.5L	.53	.53	.54	7-95U	.09	.09	.08
5-5L	.32	.32	.34	7-1.25L	.69	.69	.72
5-8L	.24	.24	.26	7-2.5L	.51	.51	.53
5-14L	.12	.12	.14	7-5L	.32	.32	.35
5-19L	.05	.05	.07	7-8L	.23	.22	.24
5-38L	-.05	-.05	-.05	7-14L	.11	.11	.11
5-44L	-.04	-.04	-.04	7-19L	.04	.04	.05
5-60L	-.11	-.11	-.11	7-32L	-.03	-.03	-.01
5-70L	.01	.03	.03	7-44L	-.04	-.05	-.05
5-90L	.05	.05	.05	7-60L	-.07	-.07	-.07
5-95L	.09	.09	.08	7-70L	-.04	-.04	-.04
6-0C	-.07	-.08	-.15	7-90L	-.05	-.05	-.05
6-5U	-.78	-.80	-.82	7-95L	.11	.09	.09
6-14U	-.49	-.50	-.51	8-0C	-.35	-.36	-.43
6-19U	-.03	-.03	-.03	8-1.25U	1.11	1.14	1.15
6-32U	-.30	-.31	-.32	8-2.5U	-.97	-.99	1.01
6-44U	-.24	-.26	-.26	8-5U	-.69	-.70	-.72
6-60U	-.22	-.22	-.23	8-8U	-.57	-.58	-.59
6-70U	-.18	-.18	-.18	8-14U	-.43	-.45	-.46
6-80U	-.07	-.07	-.07	8-19U	-.38	-.41	-.41
6-90U	-.01	-.01	-.01	8-60U	.36	.36	.38
6-100C	.15	.15	.14	8-80U	-.04	-.04	-.04
6-1.25L	.69	.70	.72	8-90U	.04	.03	.03
6-2.5L	.49	.49	.50	8-95U	-.05	-.07	-.05
6-5L	.32	.34	.35	8-100C	.16	.15	.15

TABLE 9.- CONTINUED  
(a)- Continued

ORIFICE	$\delta_e=8$	$\delta_e=12$	$\delta_e=16$	ORIFICE	$\delta_e=8$	$\delta_e=12$	$\delta_e=16$
4-90L	.04	.04	.04	6-8L	.27	.27	.27
4-95L	.08	.07	.07	6-14L	.12	.12	.14
5-0C	-.22	.23	.27	6-19L	.07	.08	.08
5-1.25U	1.35	1.38	1.41	6-38L	-.04	.04	.04
5-8U	-.62	.62	.64	6-44L	-.05	.05	.05
5-14U	-.53	.53	.54	6-60L	-.09	.09	.09
5-19U	-.50	.51	.51	6-70L	.01	0	0
5-38U	-.35	.36	.36	7-0C	-.58	.61	.64
5-44U	-.30	.30	.30	7-5U	-.82	.82	.84
5-60U	-.24	.24	.24	7-8U	-.64	.64	.64
5-70U	-.16	.16	.18	7-14U	-.50	.50	.51
5-80U	-.09	.09	.09	7-19U	-.46	.46	.47
5-90U	.01	0	0	7-38U	-.36	.36	.36
5-95U	.05	.05	.05	7-60U	-.22	.22	.23
5-1.25L	.70	.70	.70	7-90U	.01	.01	0
5-2.5L	.54	.54	.54	7-95U	.08	.08	.08
5-5L	.34	.34	.35	7-1.25L	.72	.72	.72
5-8L	.26	.26	.27	7-2.5L	.53	.54	.54
5-14L	.14	.14	.14	7-5L	.35	.35	.35
5-19L	.05	.07	.07	7-8L	.24	.24	.24
5-38L	-.05	.05	.05	7-14L	.11	.11	.11
5-44L	-.04	.04	.04	7-19L	.05	.05	.05
5-60L	-.11	.11	.11	7-32L	-.03	.03	.03
5-70L	.01	.01	.01	7-44L	-.05	.05	.05
5-90L	.05	.05	.05	7-60L	-.07	.07	.07
5-95L	.08	.08	.08	7-70L	-.04	.04	.04
6-0C	-.18	.20	.23	7-90L	-.05	.04	.04
6-5U	-.84	.85	1.27	7-95L	.09	.09	.09
6-14U	-.53	.55	.55	8-0C	-.47	.49	.50
6-19U	-.03	.03	.03	8-1.25U	1.16	1.18	1.18
6-32U	-.34	.35	.36	8-2.5U	1.03	1.04	1.04
6-44U	-.27	.28	.30	8-5U	-.74	.74	.76
6-60U	-.23	.23	.23	8-8U	-.61	.62	.62
6-70U	-.19	.20	.20	8-14U	-.47	.47	.47
6-80U	-.08	.08	.08	8-19U	-.42	.43	.43
6-90U	-.01	.01	.01	8-60U	.36	.36	.36
6-100C	.14	.14	.14	8-80U	-.04	.05	.05
6-1.25L	.72	.72	.72	8-90U	.03	.01	.01
6-2.5L	.51	.51	.51	8-95U	-.07	.07	.07
6-5L	.35	.35	.35	8-100C	.15	.15	.15



TABLE 9.- CONTINUED

(a)- Continued

ORIFICE	$\delta_e=20$	$\delta_e=24$	ORIFICE	$\delta_e=20$	$\delta_e=24$
4-90L	.04	.04	6-8L	.27	.27
4-95L	.07	.07	6-14L	.14	.14
5-0C	- .32 -	.36	6-19L	.08	.08
5-1.25U	- 1.46 -	1.50	6-38L	- .04 -	.04
5-8U	- .66 -	.68	6-44L	- .07 -	.07
5-14U	- .55 -	.57	6-60L	- .09 -	.09
5-19U	- .54 -	.54	6-70L	- 0 -	0
5-38U	- .36 -	.36	7-0C	- .72 -	.72
5-44U	- .31 -	.32	7-5U	- .86 -	.86
5-60U	- .26 -	.26	7-8U	- .66 -	.68
5-70U	- .18 -	.19	7-14U	- .51 -	.53
5-80U	- .09 -	.11	7-19U	- .47 -	.49
5-90U	- 0 -	0	7-38U	- .38 -	.38
5-95U	.05	.05	7-60U	- .23 -	.23
5-1.25L	.72	.72	7-90U	- 0 -	0
5-2.5L	.55	.57	7-95U	.08	.08
5-5L	.35	.36	7-1.25L	.72	.72
5-8L	.27	.27	7-2.5L	.54	.54
5-14L	.14	.14	7-5L	.36	.36
5-19L	.05	.07	7-8L	.24	.24
5-38L	- .05 -	.05	7-14L	.12	.12
5-44L	- .04 -	.04	7-19L	.05	.05
5-60L	- .11 -	.11	7-32L	- .01 -	.01
5-70L	.01	.01	7-44L	- .05 -	.05
5-90L	.04	.04	7-60L	- .07 -	.07
5-95L	.08	.07	7-70L	- .04 -	.04
6-0C	- .30 -	.31	7-90L	- .04 -	.04
6-5U	- .89 -	.91	7-95L	.09	.08
6-14U	- .57 -	.57	8-0C	- .58 -	.58
6-19U	- .04 -	.04	8-1.25U	- 1.20 -	1.22
6-32U	- .36 -	.36	8-2.5U	- 1.08 -	1.08
6-44U	- .30 -	.30	8-5U	- .77 -	.77
6-60U	- .24 -	.24	8-8U	- .64 -	.64
6-70U	- .20 -	.20	8-14U	- .49 -	.50
6-80U	- .08 -	.09	8-19U	- .43 -	.43
6-90U	- .01 -	.01	8-60U	.38	.38
6-100C	.14	.14	8-80U	- .05 -	.05
6-1.25L	.73	.73	8-90U	.01	.01
6-2.5L	.51	.53	8-95U	.07	.07
6-5L	.36	.36	8-100C	.15	.15

TABLE 9. - CONTINUED  
(a) - Continued

ORIFICE	$\delta_e = -28$	$\delta_e = -24$	$\delta_e = -20$	ORIFICE	$\delta_e = -28$	$\delta_e = -24$	$\delta_e = -20$
8-1.25L	.62	.62	.63	11-32U	-.27	-.27	-.29
8-2.5L	.47	.48	.48	12-32U	-.27	-.27	-.29
8-5L	.27	.29	.29	TIP-32C	-.23	-.23	-.25
8-8L	.16	.18	.14	11-32L	-.03	-.03	-.03
8-14L	.08	.08	.08	10-32L	-.04	-.04	-.03
8-19L	.03	.03	.02	10-70U	-.11	-.11	-.11
8-32L	-.03	-.03	-.02	11-70U	-.22	-.23	-.19
8-38L	-.05	-.05	-.04	12-70U	-.40	-.40	-.42
8-44L	-.07	-.07	-.07	TIP-70C	-.03	-.03	-.01
8-60L	-.08	-.08	-.08	12-70L	-.25	-.26	-.27
8-95L	.10	.10	.10	11-70L	-.08	-.08	-.08
9-0C	.21	.19	.16	10-70L	-.05	-.07	-.07
9-1.25U	-.85	-.86	-.89	FIN-1	-.18	-.18	-.14
9-2.5U	-.81	-.82	-.84	FIN-2	-.41	-.41	-.42
9-5U	-.59	-.60	-.60	FIN-3	-.12	-.12	-.12
9-14U	-.40	-.41	-.41	FIN-4	0	0	0
9-19U	-.36	-.36	-.36	FIN-5	.11	.11	.29
9-32U	-.27	-.29	-.29	FIN-6	.11	.11	.29
9-44U	-.18	-.19	-.19	FIN-7	-2.30	-2.32	-2.36
9-70U	-.07	-.07	-.07	FIN-8	-.05	-.05	-.05
9-80U	-.01	-.03	-.01	FIN-9	.01	.01	.03
9-100C	.15	.15	.15	FIN-10	0	0	0
9-1.25L	.58	.58	.59	FIN-11	.03	.03	.04
9-5L	.27	.27	.29	FIN-12	.04	.04	.04
9-8L	.14	.14	.14	FIN-13	-1.53	-1.52	-1.51
9-14L	-.04	-.04	-.05	FIN-14	-.23	-.22	-.22
9-19L	0	0	0	FIN-15	-.03	-.03	-.03
9-32L	-.08	-.08	-.08	FIN-16	-.01	0	0
9-38L	-.07	-.07	-.07	FIN-17	0	.01	.01
9-44L	-.03	-.03	-.03	FIN-18	.04	.04	.05
9-70L	-.05	-.05	-.05	FIN-19	.01	.01	.01
9-90L	.05	.05	.05	FIN-20	.03	.03	.03
9-95L	.11	.11	.11	FIN-21	-.11	-.11	-.11
2S-60U	-.15	-.16	-.16	FIN-22	-.01	-.01	-.01
2S-60L	-.08	-.08	-.08	FIN-23	-.01	0	0
5S-60U	-.10	-.10	-.10	FIN-24	-.03	-.03	-.01
5S-60L	-.07	-.07	-.07	FIN-25	-.23	-.23	-.22
8S-60U	-.15	-.15	-.16	FIN-26	-.12	-.12	-.12
8S-60L	-.07	-.05	-.07	FIN-27	-.22	-.07	-.07
10-32U	-.03	-.03	-.03	FIN-28	-.21	-.07	-.07



TABLE 9. - CONTINUED  
(a) - Continued

ORIFICE	$\delta_e = -16$	$\delta_e = -12$	$\delta_e = -8$	ORIFICE	$\delta_e = -16$	$\delta_e = -12$	$\delta_e = -8$
8-1.25L	.64	.64	.65	11-32U	-.29	-.30	-.30
8-2.5L	.49	.49	.50	12-32U	-.30	-.30	-.31
8-5L	.30	.30	.31	TIP-32C	-.26	-.27	-.27
8-8L	.18	.18	.19	11-32L	-.04	-.04	-.04
8-14L	.08	.08	.08	10-32L	-.03	-.05	-.05
8-19L	.03	.03	.03	10-70U	-.10	-.12	-.12
8-32L	-.03	-.03	-.03	11-70U	-.25	-.26	-.27
8-38L	-.05	-.05	-.05	12-70U	-.44	-.45	-.46
8-44L	-.07	-.07	-.07	TIP-70C	-.03	-.03	-.03
8-60L	-.08	-.08	-.08	12-70L	-.22	-.28	-.30
8-95L	.10	.08	.08	11-70L	-.10	-.09	-.09
9-0C	.12	.12	.08	10-70L	-.07	-.07	-.07
9-1.25U	-.92	-.92	-.95	FIN-1	-.18	-.18	-.16
9-2.5U	-.85	-.85	-.86	FIN-2	-.32	-.41	-.39
9-5U	-.63	-.62	-.65	FIN-3	-.11	-.11	-.11
9-14U	-.42	-.42	-.43	FIN-4	0	.01	.01
9-19U	-.37	-.38	-.38	FIN-5	.11	.11	.12
9-32U	-.29	-.30	-.30	FIN-6	.11	.11	.12
9-44U	-.19	-.20	-.20	FIN-7	-2.27	-2.22	-2.18
9-70U	-.07	-.08	-.08	FIN-8	-.04	-.05	-.04
9-80U	-.01	-.01	-.03	FIN-9	.01	.03	.03
9-100C	.15	.14	.14	FIN-10	0	.01	.01
9-1.25L	.59	.59	.59	FIN-11	.02	.03	.04
9-5L	.29	.28	.30	FIN-12	.03	.04	.04
9-8L	.15	.15	.16	FIN-13	-1.14	-1.42	-1.39
9-14L	-.05	-.05	-.05	FIN-14	-.17	-.22	-.20
9-19L	0	0	0	FIN-15	-.02	-.03	-.01
9-32L	-.08	-.08	-.08	FIN-16	0	0	0
9-38L	-.07	-.07	-.07	FIN-17	.01	.01	.01
9-44L	-.03	-.03	-.03	FIN-18	.03	.04	.05
9-70L	-.05	-.05	-.05	FIN-19	.01	.01	.01
9-90L	.04	.04	.04	FIN-20	.03	.03	.03
9-95L	.11	.09	.11	FIN-21	-.11	-.11	-.11
2S-60U	-.16	-.18	-.19	FIN-22	-.01	-.01	-.01
2S-60L	-.08	-.08	-.08	FIN-23	0	0	0
5S-60U	-.10	-.09	-.09	FIN-24	-.03	-.03	-.03
5S-60L	-.07	-.07	-.07	FIN-25	-.22	-.22	-.22
8S-60U	-.16	-.18	-.18	FIN-26	-.12	-.12	-.09
8S-60L	-.07	-.07	-.07	FIN-27	-.07	-.07	-.05
10-32U	-.03	-.03	-.03	FIN-28	-.07	-.07	-.07

TABLE 9. - CONTINUED  
(a) - Continued

ORIFICE	$\delta_e = -4$	$\delta_e = 0$	$\delta_e = 4$	ORIFICE	$\delta_e = -4$	$\delta_e = 0$	$\delta_e = 4$
8-1.25L	.65	.66	.66	11-32U	-.30	-.32	-.31
8-2.5L	.50	.51	.51	12-32U	-.31	-.33	-.34
8-5L	.31	.32	.31	TIP-32C	-.27	-.29	-.28
8-8L	.19	.19	.20	11-32L	-.03	-.04	-.04
8-14L	.08	.06	.09	10-32L	-.04	-.05	-.05
8-19L	.03	.03	.03	10-70U	-.12	-.12	-.14
8-32L	-.03	-.03	-.03	11-70U	-.26	-.27	-.28
8-38L	-.04	-.05	-.05	12-70U	-.45	-.48	-.49
8-44L	-.07	-.07	-.07	TIP-70C	-.01	-.03	-.03
8-60L	-.08	-.08	-.09	12-70L	-.28	-.30	-.31
8-95L	.09	.08	.08	11-70L	-.09	-.10	-.09
9-0C	.08	.07	.03	10-70L	-.07	-.07	-.08
9-1.25U	-.92	-.96	-.96	FIN-1	-.16	-.16	-.16
9-2.5U	-.85	-.88	-.88	FIN-2	-.39	-.38	-.36
9-5U	-.64	-.66	-.68	FIN-3	-.11	-.10	-.09
9-14U	-.42	-.44	-.45	FIN-4	.01	.01	.01
9-19U	-.38	-.40	-.39	FIN-5	.12	.12	.12
9-32U	-.30	-.30	-.31	FIN-6	.12	.12	.12
9-44U	-.20	-.21	-.22	FIN-7	-2.16	-2.11	-2.03
9-70U	-.08	-.08	-.08	FIN-8	-.04	-.04	-.03
9-80U	-.01	-.03	-.03	FIN-9	.03	.03	.03
9-100C	.14	.14	.14	FIN-10	.01	.01	.01
9-1.25L	.59	.62	.61	FIN-11	.04	.03	.04
9-5L	.30	.30	.30	FIN-12	.04	.04	.04
9-8L	.16	.16	.16	FIN-13	-1.38	-1.34	-1.30
9-14L	.05	.05	.05	FIN-14	-.20	-.21	-.20
9-19L	.01	0	.01	FIN-15	-.01	-.01	-.01
9-32L	-.08	-.08	-.08	FIN-16	0	0	0
9-38L	-.05	-.07	-.07	FIN-17	.03	.01	.03
9-44L	-.03	-.03	-.03	FIN-18	.05	.05	.05
9-70L	-.05	-.07	-.05	FIN-19	.01	.01	.01
9-90L	.04	.04	.04	FIN-20	.03	.03	.03
9-95L	.11	.10	.09	FIN-21	-.09	-.11	-.09
2S-60U	-.18	-.19	-.20	FIN-22	-.01	-.01	-.01
2S-60L	-.08	-.10	-.08	FIN-23	0	0	0
5S-60U	-.09	-.10	-.09	FIN-24	-.01	-.03	-.03
5S-60L	-.07	-.07	-.07	FIN-25	-.22	-.21	-.22
8S-60U	-.16	-.18	-.19	FIN-26	-.11	-.12	-.12
8S-60L	0	-.07	-.07	FIN-27	-.07	-.07	-.07
10-32U	-.01	-.03	-.03	FIN-28	-.07	-.07	-.07



TABLE 9. - CONTINUED  
(a) - Continued

ORIFICE	$\delta_e = 8$	$\delta_e = 12$	$\delta_e = 16$	ORIFICE	$\delta_e = 8$	$\delta_e = 12$	$\delta_e = 16$
8-1.25L	.66	.66	.66	11-32U	-.32	-.32	-.34
8-2.5L	.51	.53	.53	12-32U	-.35	-.35	-.36
8-5L	.32	.32	.32	TIP-32C	-.30	-.30	-.31
8-8L	.19	.20	.20	11-32L	-.04	-.04	-.04
8-14L	.09	.09	.09	10-32L	-.05	-.05	-.05
8-19L	.03	.03	.03	10-70U	-.14	-.13	-.14
8-32L	-.03	-.03	-.03	11-70U	-.30	-.29	-.31
8-38L	-.05	-.05	-.05	12-70U	-.50	-.51	-.53
8-44L	-.07	-.07	-.07	TIP-70C	-.01	-.01	-.03
8-60L	-.09	-.09	-.09	12-70L	-.32	-.34	-.34
8-95L	.08	.08	.08	11-70L	-.11	-.11	-.11
9-0C	0	.01	.04	10-70L	-.08	-.08	-.08
9-1.25U	-.97	-.97	-.97	FIN-1	-.16	-.16	-.16
9-2.5U	-.89	-.89	-.91	FIN-2	-.36	-.35	-.35
9-5U	-.68	-.69	-.70	FIN-3	-.09	-.08	-.08
9-14U	-.45	-.46	-.46	FIN-4	.01	.01	.03
9-19U	-.41	-.41	-.41	FIN-5	.12	.12	.12
9-32U	-.31	-.31	-.31	FIN-6	.12	.12	.12
9-44U	-.22	-.22	-.22	FIN-7	-.62	1.95	1.93
9-70U	-.08	-.09	-.09	FIN-8	-.03	-.03	-.03
9-80U	-.03	-.03	-.04	FIN-9	.03	.03	.03
9-100C	.14	.14	.14	FIN-10	.01	.01	.01
9-1.25L	.61	.62	.62	FIN-11	.03	.03	.03
9-5L	.31	.31	.31	FIN-12	.04	.04	.04
9-8L	.16	.16	.16	FIN-13	1.27	1.23	1.20
9-14L	.05	.05	.05	FIN-14	-.19	-.19	-.19
9-19L	.01	.01	.01	FIN-15	-.01	-.01	-.01
9-32L	-.08	-.08	-.08	FIN-16	0	0	0
9-38L	-.07	-.07	-.07	FIN-17	.03	.03	.03
9-44L	-.03	-.03	-.03	FIN-18	.05	.05	.05
9-70L	-.07	-.07	-.07	FIN-19	.01	.01	.01
9-90L	.03	.04	.04	FIN-20	.03	.03	.03
9-95L	.09	.09	.09	FIN-21	-.09	-.09	-.09
2S-60U	-.20	-.22	-.22	FIN-22	-.01	-.01	-.01
2S-60L	-.09	-.09	-.09	FIN-23	0	0	0
5S-60U	-.09	-.11	-.11	FIN-24	-.01	-.01	-.03
5S-60L	-.07	-.07	-.07	FIN-25	-.22	-.22	-.20
8S-60U	-.19	-.20	-.20	FIN-26	-.12	-.12	-.12
8S-60L	-.07	-.07	-.07	FIN-27	-.07	-.07	-.07
10-32U	-.03	-.03	-.03	FIN-28	-.07	-.07	-.07

TABLE 9. -- CONTINUED  
(a) -- Concluded

ORIFICE	$\delta_e = 20$	$\delta_e = 24$	ORIFICE	$\delta_e = 20$	$\delta_e = 24$
8-1.25L	.68	.41	11-32U	-.34	-.63
8-2.5L	.53	.26	12-32U	-.38	-.66
8-5L	.33	.05	TIP-32C	-.32	-.19
8-8L	.21	.07	11-32L	-.04	-.32
8-14L	.10	.18	10-32L	-.05	-.33
8-19L	.03	.25	10-70U	-.14	-.42
8-32L	-.03	-.30	11-70U	-.33	-.60
8-38L	-.05	-.33	12-70U	-.55	-.82
8-44L	-.07	-.34	TIP-70C	-.03	-.29
8-60L	-.10	-.37	12-70L	-.36	-.63
8-95L	.08	.21	11-70L	-.11	-.38
9-0C	-.05	-.33	10-70L	-.08	-.36
9-1.25U	- 1.00	- 1.27	FIN-1	-.16	-.44
9-2.5U	-.93	- 1.21	FIN-2	-.34	-.62
9-5U	-.73	- 1.00	FIN-3	-.07	-.34
9-14U	-.48	-.75	FIN-4	.03	-.25
9-19U	-.42	-.70	FIN-5	.11	-.15
9-32U	-.33	-.60	FIN-6	.12	-.15
9-44U	-.22	-.51	FIN-7	- 1.89	- 2.14
9-70U	-.10	-.37	FIN-8	-.03	-.30
9-80U	-.04	-.32	FIN-9	.03	-.25
9-100C	.14	.14	FIN-10	.01	-.26
9-1.25L	.63	.36	FIN-11	.03	-.25
9-5L	.32	.04	FIN-12	.04	-.23
9-8L	.18	.10	FIN-13	- 1.19	- 1.44
9-14L	.07	-.22	FIN-14	-.19	-.47
9-19L	.01	-.26	FIN-15	-.01	-.29
9-32L	-.08	-.36	FIN-16	- 0	-.27
9-38L	-.07	-.34	FIN-17	.03	-.25
9-44L	-.03	-.32	FIN-18	.04	-.22
9-70L	-.07	-.34	FIN-19	.01	-.26
9-90L	.03	-.25	FIN-20	.03	-.25
9-95L	.10	.18	FIN-21	-.10	-.37
2S-60U	-.23	-.52	FIN-22	-.01	-.29
2S-60L	-.11	-.38	FIN-23	- 0	-.27
5S-60U	-.11	-.38	FIN-24	-.03	-.29
5S-60L	-.08	-.36	FIN-25	-.22	-.49
8S-60U	-.21	-.48	FIN-26	-.12	-.40
8S-60L	-.07	-.36	FIN-27	-.07	-.36
10-32U	-.03	-.29	FIN-28	-.07	-.34



TABLE 9. - CONTINUED  
(b)  $\alpha, 12^\circ$ .

ORIFICE	$\delta_e = .32$	$\delta_e = .28$	$\delta_e = .24$	ORIFICE	$\delta_e = .32$	$\delta_e = .28$	$\delta_e = .24$
1-0C	.51	.53	.54	3-1.25U	2.29	2.30	2.34
1-1.25U	1.12	1.12	1.15	3-8U	.92	.92	.95
1-2.5U	.71	.72	.74	3-14U	.68	.69	.70
1-5U	.47	.47	.49	3-19U	.59	.59	.61
1-8U	.42	.42	.43	3-32U	.40	.39	.41
1-14U	.29	.30	.31	3-60U	.18	.19	.19
1-19U	.30	.31	.32	3-70U	.11	.11	.12
1-32U	.23	.24	.26	3-95U	.08	.07	.07
1-70U	.15	.16	.16	3-1.25L	.48	.74	.74
1-80U	.08	.08	.08	3-2.5L	.73	.72	.72
1-90U	.04	.04	.04	3-5L	.59	.58	.58
1-95U	.04	.03	.03	3-8L	.49	.49	.50
1-2.5L	.66	.65	.66	3-14L	.36	.36	.36
1-5L	.51	.51	.51	3-32L	.16	.18	.18
1-14L	.33	.32	.34	3-38L	.11	.12	.11
1-19L	.26	.26	.30	3-60L	.01	.03	.03
1-32L	.21	.22	.22	3-80L	.05	.05	.04
1-38L	.14	.14	.14	3-95L	.08	.08	.07
1-60L	.04	.04	.04	4-0C	3.63	3.64	3.70
1-70L	.05	.05	.05	4-1.25U	2.58	2.59	2.65
1-80L	.04	.04	.04	4-2.5U	1.89	1.89	1.93
2-1.25U	1.81	1.84	1.86	4-14U	.84	.84	.72
2-2.5U	1.34	1.35	1.38	4-19U	.66	.66	.68
2-5U	.96	.97	.99	4-32U	.45	.45	.46
2-32U	.30	.32	.32	4-38U	.41	.41	.43
2-38U	.36	.36	.38	4-60U	.25	.24	.26
2-70U	.22	.22	.24	4-70U	.11	.11	.11
2-70U	.10	.11	.11	4-90U	.04	.04	.03
2-80U	.04	.04	.04	4-95U	.08	.08	.07
2-95U	.08	.08	.08	4-100C	.10	.09	.08
2-100C	.07	.07	.05	4-2.5L	.74	.74	.73
2-1.25L	.77	.76	.76	4-5L	.63	.64	.64
2-2.5L	.68	.68	.69	4-8L	.53	.53	.53
2-5L	.55	.54	.54	4-14L	.36	.35	.36
2-14L	.33	.32	.32	4-19L	.29	.28	.30
2-32L	.15	.15	.15	4-32L	.19	.19	.19
2-38L	.11	.11	.11	4-38L	.11	.11	.12
2-44L	.08	.08	.08	4-44L	.10	.09	.09
2-70L	.11	.11	.12	4-60L	.04	.04	.04
2-95L	.07	.07	.07	4-80L	.07	.07	.05

TABLE 9. - CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = .20$	$\delta_e = .16$	$\delta_e = .12$	ORIFICE	$\delta_e = .20$	$\delta_e = .16$	$\delta_e = .12$
1-0C	- .58	- .65	- .66	3-1.25U	- 2.42	- 2.49	- 2.54
1-1.25U	- 1.18	- 1.23	- 1.24	3-8U	- .76	- 1.00	- 1.03
1-2.5U	- .76	- .66	- .80	3-14U	- .73	- .76	- .77
1-5U	- .50	- .53	- .54	3-19U	- .22	- .65	- .66
1-8U	- .45	- .47	- .49	3-32U	- .43	- .45	- .46
1-14U	- .32	- .34	- .35	3-60U	- .22	- .22	- .23
1-19U	- .34	- .35	- .36	3-70U	- .14	- .14	- .15
1-32U	- .27	- .28	- .30	3-95U	- .07	- .05	- .05
1-70U	- .18	- .18	- .19	3-1.25L	- .73	- .73	- .73
1-80U	- .09	- .11	- .12	3-2.5L	- .72	- .72	- .73
1-90U	- .04	- .05	- .07	3-5L	- .59	- .59	- .61
1-95U	- .03	- .01	- 0	3-8L	- .50	- .50	- .51
1-2.5L	- .65	- .66	- .66	3-14L	- .36	- .36	- .38
1-5L	- .51	- .53	- .53	3-32L	- .18	- .18	- .18
1-14L	- .32	- .32	- .32	3-38L	- .11	- .12	- .12
1-19L	- .26	- .27	- .27	3-60L	- .01	- .01	- .03
1-32L	- .22	- .22	- .22	3-80L	- .03	- .04	- .04
1-38L	- .14	- .14	- .14	3-95L	- .07	- .07	- .07
1-60L	- .04	- .04	- .04	4-0C	- 3.78	- 3.91	- 4.04
1-70L	- .05	- .05	- .05	4-1.25U	- 2.72	- 2.77	- 2.84
1-80L	- .04	- .04	- .04	4-2.5U	- 1.99	- 2.03	- 2.08
2-1.25U	- 1.88	- 1.91	- 1.91	4-14U	- .88	- .89	- .92
2-2.5U	- 1.42	- 1.47	- 1.51	4-19U	- .69	- .70	- .73
2-5U	- 1.01	- 1.05	- 1.08	4-32U	- .38	- .50	- .50
2-32U	- 1.69	- .38	- .38	4-38U	- .43	- .45	- .46
2-38U	- .39	- .42	- .43	4-60U	- .27	- .27	- .28
2-14U	- .24	- .26	- .27	4-70U	- .12	- .14	- .14
2-70U	- .12	- .14	- .15	4-90U	- .03	- .03	- .01
2-80U	- .05	- .05	- .07	4-95U	- .07	- .05	- .05
2-95U	- .07	- .07	- .05	4-100C	- .08	- .08	- .07
2-100C	- .05	- .04	- .03	4-2.5L	- .74	- .73	- .74
2-1.25L	- .76	- .76	- .76	4-5L	- .65	- .65	- .65
2-2.5L	- .69	- .70	- .57	4-8L	- .53	- .53	- .54
2-5L	- .55	- .55	- .57	4-14L	- .36	- .36	- .36
2-14L	- .07	- .34	- .35	4-19L	- .28	- .30	- .30
2-32L	- .15	- .16	- .16	4-32L	- .19	- .19	- .19
2-38L	- .11	- .11	- .11	4-38L	- .12	- .12	- .12
2-44L	- .06	- .08	- .08	4-44L	- .09	- .09	- .09
2-70L	- .11	- .12	- .11	4-60L	- .04	- .04	- .04
2-95L	- .07	- .05	- .05	4-80L	- .05	- .04	- .05



ORIFICE	$\delta_e = .8$	$\delta_e = .4$	$\delta_e = 0$	ORIFICE	$\delta_e = .8$	$\delta_e = .4$	$\delta_e = 0$
1-0C	-.69	-.70	-.73	3-1.25U	- 2.58	- 2.65	- 2.68
1-1.25U	- 1.26	- 1.27	- 1.30	3-8U	- 1.04	- 1.07	- 1.09
1-2.5U	-.81	-.82	-.85	3-14U	-.78	-.81	-.82
1-5U	-.55	-.57	-.58	3-19U	-.69	-.70	-.72
1-8U	-.50	-.51	-.53	3-32U	-.47	-.49	-.50
1-14U	-.35	-.38	-.39	3-60U	-.24	-.24	-.26
1-19U	-.38	-.39	-.41	3-70U	-.16	-.16	-.18
1-32U	-.32	-.34	-.35	3-95U	.05	.04	.04
1-70U	-.20	-.20	-.22	3-1.25L	.73	.73	.73
1-80U	-.14	-.14	-.15	3-2.5L	.73	.73	.73
1-90U	-.08	-.07	-.09	3-5L	.61	.61	.61
1-95U	-.01	-.01	-.03	3-8L	.51	.51	.51
1-2.5L	.66	.66	.68	3-14L	.38	.39	.38
1-5L	.53	.53	.53	3-32L	.18	.18	.18
1-14L	.34	.25	.32	3-38L	.12	.12	.12
1-19L	.27	.27	.27	3-60L	.01	.01	.01
1-32L	.22	.22	.22	3-80L	.04	.04	.03
1-38L	.14	.14	.14	3-95L	.05	.07	.05
1-60L	.04	.04	.04	4-0C	- 4.14	- 4.23	- 4.30
1-70L	.05	.05	.04	4-1.25U	- 2.88	- 2.95	- 3.00
1-80L	.04	.03	.03	4-2.5U	- 2.11	- 2.15	- 2.19
2-1.25U	- 1.92	- 1.81	- 1.84	4-14U	-.93	-.96	-.97
2-2.5U	- 1.53	- 1.55	- 1.59	4-19U	-.74	-.77	-.77
2-5U	- 1.09	- 1.12	- 1.15	4-32U	-.53	-.53	-.54
2-32U	-.39	-.41	-.43	4-38U	-.47	-.45	-.47
2-38U	-.45	-.46	-.47	4-60U	-.30	-.30	-.31
2-14U	-.28	-.23	-.24	4-70U	-.15	-.15	-.15
2-70U	-.16	-.18	-.19	4-90U	.01	.01	0
2-80U	-.08	-.08	-.09	4-95U	.05	.05	.04
2-95U	.05	.04	.04	4-100C	.07	.07	.05
2-100C	.03	.01	.01	4-2.5L	.74	.74	.76
2-1.25L	.76	.76	.76	4-5L	.65	.65	.66
2-2.5L	.70	.70	.70	4-8L	.54	.43	.55
2-5L	.57	.57	.57	4-14L	.38	.38	.38
2-14L	.35	.35	.35	4-19L	.30	.30	.30
2-32L	.16	.16	.16	4-32L	.19	.20	.20
2-38L	.11	.11	.11	4-38L	.11	.12	.12
2-44L	.08	.08	.08	4-44L	.09	.09	.09
2-70L	.11	.11	.11	4-60L	.04	.04	.04
2-95L	.04	.04	.04	4-80L	.05	.05	.05

TABLE 9. -- CONTINUED  
(b) -- Continued

ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$
1-0C	- .77	- .81	- .82	3-1.25U	- 2.78	- 2.84	- 2.86
1-1.25U	- 1.34	- 1.38	- 1.38	3-8U	- 1.14	- 1.16	- 1.16
1-2.5U	- .88	- .92	- .91	3-14U	- .86	- .88	- .88
1-5U	- .60	- .63	- .62	3-19U	- .75	- .77	- .77
1-8U	- .56	- .16	- .57	3-32U	- .53	- .55	- .54
1-14U	- .42	- .44	- .43	3-60U	- .29	- .29	- .28
1-19U	- .44	- .45	- .45	3-70U	- .19	- .21	- .16
1-32U	- .38	- .40	- .41	3-95U	- .01	- .01	- .02
1-70U	- .25	- .25	- .24	3-1.25L	- .71	- .71	- .72
1-80U	- .18	- .19	- .19	3-2.5L	- .73	- .73	- .73
1-90U	- .12	- .14	- .14	3-5L	- .60	- .62	- .62
1-95U	- .05	- .07	- .07	3-8L	- .51	- .51	- .53
1-2.5L	- .66	- .67	- .68	3-14L	- .37	- .37	- .39
1-5L	- .52	- .52	- .54	3-32L	- .16	- .16	- .18
1-14L	- .32	- .33	- .34	3-38L	- .11	- .11	- .12
1-19L	- .26	- .26	- .27	3-60L	- 0	- 0	- .01
1-32L	- .21	- .21	- .23	3-80L	- .03	- .01	- .03
1-38L	- .12	- .14	- .15	3-95L	- .04	- .03	- .04
1-60L	- .01	- .03	- .03	4-0C	- 4.45	- 4.56	- 4.61
1-70L	- .03	- .03	- .04	4-1.25U	- 3.10	- 3.15	- 3.16
1-80L	- .01	- .01	- .03	4-2.5U	- 2.26	- 2.30	- 2.31
2-1.25U	- 1.93	- 1.96	- 1.97	4-14U	- 1.01	- 1.03	- 1.03
2-2.5U	- 1.64	- 1.68	- 1.69	4-19U	- .81	- .82	- .82
2-5U	- 1.19	- 1.22	- 1.22	4-32U	- .58	- .59	- .58
2-32U	- .45	- .48	- .47	4-38U	- .51	- .51	- .51
2-38U	- .51	- .52	- .53	4-60U	- .34	- .34	- .34
2-44U	- .42	- .30	- .28	4-70U	- .16	- .18	- .16
2-70U	- .37	- .23	- .23	4-90U	- .01	- .01	- 0
2-80U	- .11	- .12	- .12	4-95U	- .03	- .03	- .04
2-95U	- .01	- .01	- .01	4-100C	- .04	- .04	- .05
2-100C	- .01	- .03	- .01	4-2.5L	- .74	- .75	- .76
2-1.25L	- .74	- .75	- .74	4-5L	- .66	- .66	- .66
2-2.5L	- .70	- .71	- .58	4-8L	- .55	- .55	- .55
2-5L	- .56	- .56	- .58	4-14L	- .37	- .37	- .39
2-14L	- .34	- .34	- .35	4-19L	- .29	- .30	- .31
2-32L	- .14	- .15	- .16	4-32L	- .19	- .19	- .22
2-38L	- .10	- .10	- .11	4-38L	- .11	- .11	- .12
2-44L	- .07	- .07	- .09	4-44L	- .08	- .08	- .09
2-70L	- .10	- .10	- .11	4-60L	- .03	- .03	- .04
2-95L	- .01	- .01	- .03	4-80L	- .04	- .04	- .04



TABLE 9. - CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$	ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$
1-0C	- .86	- .89	- .70	3-1.25U	- 2.97	- 3.00	- 3.04
1-1.25U	- 1.44	- 1.52	- 1.13	3-8U	- 1.22	- 1.23	- 1.25
1-2.5U	- .95	- .96	- .97	3-14U	- .92	- .93	- .95
1-5U	- .66	- .67	- .67	3-19U	- .81	- .82	- .84
1-8U	- .60	- .62	- .62	3-32U	- .58	- .59	- .60
1-14U	- .45	- .48	- .48	3-60U	- .32	- .32	- .33
1-19U	- .48	- .49	- .51	3-70U	- .22	- .23	- .23
1-32U	- .44	- .45	- .47	3-95U	- 0	- 0	- 0
1-70U	- .29	- .30	- .30	3-1.25L	- .70	- .70	- .70
1-80U	- .23	- .25	- .26	3-2.5L	- .73	- .73	- .73
1-90U	- .16	- .18	- .19	3-5L	- .63	- .63	- .63
1-95U	- .10	- .11	- .11	3-8L	- .52	- .52	- .52
1-2.5L	- .67	- .68	- .67	3-14L	- .37	- .38	- .38
1-5L	- .52	- .53	- .52	3-32L	- .18	- .16	- .18
1-14L	- .33	- .33	- .33	3-38L	- .11	- .11	- .11
1-19L	- .26	- .26	- .26	3-60L	- 0	- 0	- 0
1-32L	- .22	- .22	- .21	3-80L	- .01	- .01	- .01
1-38L	- .12	- .14	- .12	3-95L	- .03	- .03	- .03
1-60L	- .01	- .01	- .01	4-0C	- 4.86	- 4.92	- 5.07
1-70L	- .03	- .03	- .03	4-1.25U	- 3.29	- 3.32	- 3.37
1-80L	- 0	- 0	- 0	4-2.5U	- 2.40	- 2.42	- 2.45
2--1.25U	- 2.07	- 2.10	- 2.14	4-14U	- 1.07	- 1.08	- 1.10
2--2.5U	- .38	- 1.78	- 1.79	4-19U	- .86	- .88	- .89
2-5U	- 1.27	- 1.29	- 1.30	4-32U	- .62	- .63	- .63
2-32U	- .51	- .52	- .53	4-38U	- .55	- .55	- .56
2-38U	- .56	- .58	- .59	4-60U	- .37	- .37	- .38
2-44U	- .32	- .33	- .36	4-70U	- .19	- .19	- .21
2-70U	- .26	- .27	- .29	4-90U	- .03	- .03	- .03
2-80U	- .15	- .15	- .16	4-95U	- .03	- .03	- .01
2-95U	- 0	- 0	- .01	4-100C	- .03	- .03	- .03
2-100C	- .03	- .04	- .04	4-2.5L	- .75	- .75	- .75
2-1.25L	- .74	- .74	- .74	4-5L	- .66	- .66	- .67
2-2.5L	- .71	- .71	- .70	4-8L	- .56	- .56	- .56
2-5L	- .58	- .58	- .58	4-14L	- .38	- .38	- .38
2-14L	- .34	- .36	- .34	4-19L	- .30	- .30	- .30
2-32L	- .15	- .15	- .15	4-32L	- .19	- .19	- .19
2-38L	- .10	- .10	- .10	4-38L	- .11	- .11	- .11
2-44L	- .07	- .08	- .07	4-44L	- .08	- .10	- .08
2-70L	- .08	- .10	- .08	4-60L	- .01	- .03	- .03
2-95L	- .01	- 0	- 0	4-80L	- .03	- .03	- .03

TABLE 9.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$	ORIFICE	$\delta_e = 32$	$\delta_e = 28$	$\delta_e = 24$
4-90L	0.08	0.07	0.05	6-8L	0.59	0.58	0.57
4-95L	.08	.07	.05	6-14L	.41	.28	.41
5-0C	-3.96	-3.97	-4.09	6-19L	.34	.34	.49
5-1.25U	-2.94	-2.94	-3.01	6-38L	.14	.13	.12
5-8U	-1.12	-1.12	-1.16	6-44L	.10	.09	.08
5-14U	-.84	-.84	-.87	6-60L	.01	.01	0
5-19U	-.74	-.74	-.77	6-70L	.10	.09	.08
5-38U	-.42	-.43	-.46	7-0C	-5.11	-5.03	-5.02
5-44U	-.36	-.35	-.39	7-5U	-1.64	-1.67	-1.84
5-60U	-.23	-.23	-.26	7-8U	-1.23	-1.24	-1.35
5-70U	-.14	-.15	-.16	7-14U	-.88	-.89	-.92
5-80U	.05	-.05	-.07	7-19U	-.74	-.74	-.77
5-90U	.03	.03	-.01	7-38U	-.44	-.45	-.45
5-95U	.07	.05	.05	7-60U	-.22	-.22	-.23
5-1.25L	.70	.69	.66	7-90U	.04	.03	.01
5-2.5L	.60	.76	.74	7-95U	.07	.05	.04
5-5L	.73	.66	.65	7-1.25L	.67	.66	.66
5-8L	.56	.55	.54	7-2.5L	.77	.76	.76
5-14L	.41	.41	.39	7-5L	.68	.68	.66
5-19L	.31	.31	.31	7-8L	.56	.55	.54
5-38L	.14	.13	.12	7-14L	.41	.39	.39
5-44L	.11	.11	.11	7-19L	.31	.31	.30
5-60L	.01	.01	0	7-32L	.18	.18	.15
5-70L	.10	.09	.08	7-44L	.10	.08	.08
5-90L	.07	.07	.05	7-60L	.03	-.01	.01
5-95L	.08	.08	.07	7-70L	.03	.01	0
6-0C	-4.16	-4.20	-4.30	7-90L	.04	.04	.03
6-5U	-1.64	-1.66	-1.67	7-95L	.07	.05	.05
6-14U	-.89	-.89	-.92	8-0C	-2.98	-2.57	-2.04
6-19U	0	-.01	-.03	8-1.25U	-2.56	-2.28	-1.31
6-32U	-.52	-.54	-.55	8-2.5U	-2.52	-2.30	-1.87
6-44U	-.38	-.39	-.42	8-5U	-2.16	-2.07	-1.85
6-60U	-.23	-.23	-.26	8-8U	-1.64	-1.66	-1.58
6-70U	-.15	-.16	-.16	8-14U	-.96	-1.00	-1.05
6-80U	-.05	-.05	-.07	8-19U	-.74	.78	.85
6-90U	.03	.03	0	8-60U	-.03	-.03	-.05
6-100C	.08	.07	.05	8-80U	-.04	-.05	-.07
6-1.25L	.68	.66	.65	8-90U	.01	0	-.03
6-2.5L	.75	.74	.73	8-95U	0	-.01	-.03
6-5L	.67	.68	.66	8-100C	.08	.05	.04



TABLE 9.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = -12$	$\delta_e = -16$	$\delta_e = -20$	ORIFICE	$\delta_e = -12$	$\delta_e = -16$	$\delta_e = -20$
4-90L	0.05	0.07	0.07	6-8L	0.59	0.59	0.59
4-95L	.05	.07	.07	6-14L	.41	.41	.41
5-0C	-4.36	-4.31	-4.25	6-19L	.34	.34	.34
5-1.25U	-3.16	-3.13	-3.09	6-38L	.13	.13	.13
5-8U	-1.22	-1.20	-1.18	6-44L	.08	.08	.08
5-14U	-.92	-.89	-.88	6-60L	0	.01	.01
5-19U	-.81	-.80	-.78	6-70L	.08	.08	.08
5-38U	-.49	-.47	-.46	7-0C	-1.81	-1.86	-1.90
5-44U	-.41	-.39	-.39	7-5U	-1.71	-1.73	-1.76
5-60U	-.27	-.26	-.26	7-8U	-1.56	-1.55	-1.57
5-70U	-.18	-.16	-.16	7-14U	-1.18	-.73	-1.12
5-80U	-.08	-.07	-.07	7-19U	-.93	-.89	-.89
5-90U	.01	.01	.03	7-38U	-.47	-.47	-.46
5-95U	.04	.05	.05	7-60U	-.24	-	-.23
5-1.25L	.68	.68	.68	7-90U	-.03	-.01	-.01
5-2.5L	.76	.77	.77	7-95U	.01	.01	.01
5-5L	.68	.68	.66	7-1.25L	.72	.72	.72
5-8L	.57	.57	.57	7-2.5L	.74	.74	.74
5-14L	.42	.42	.42	7-5L	.65	.65	.65
5-19L	.32	.32	.32	7-8L	.54	.54	.54
5-38L	.13	.27	.13	7-14L	.39	.39	.39
5-44L	.12	.24	.11	7-19L	.30	.31	.30
5-60L	.01	.01	.01	7-32L	.16	.18	.16
5-70L	.08	.08	.08	7-44L	.08	.08	.08
5-90L	.07	.07	.07	7-60L	.01	.01	.01
5-95L	.07	.07	.07	7-70L	0	.01	.01
6-0C	-4.32	-4.30	-4.28	7-90L	.03	.03	.04
6-5U	-1.84	-1.79	-1.82	7-95L	.04	.05	.05
6-14U	-1.03	-1.00	-.58	8-0C	-2.04	-2.10	-2.09
6-19U	-.01	-.01	-.01	8-1.25U	-1.86	-1.90	-1.92
6-32U	-.59	-.57	-.55	8-2.5U	-1.89	-1.92	-1.96
6-44U	-.45	-.43	-.41	8-5U	-1.77	-1.80	-1.81
6-60U	-.24	-.24	-.24	8-8U	-1.51	-1.61	-1.55
6-70U	-.16	-.16	-.15	8-14U	-1.08	-1.22	-1.11
6-80U	-.07	-.07	-.07	8-19U	.89	1.00	.92
6-90U	.03	.03	.03	8-60U	-.05	-.04	-.04
6-100C	.05	.05	.05	8-80U	-.07	-.07	-.07
6-1.25L	.68	.68	.68	8-90U	-.03	-.01	-.01
6-2.5L	.77	.77	.77	8-95U	.03	.01	.01
6-5L	.69	.69	.69	8-100C	.01	.03	.01

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TABLE 9.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$	ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$
4-90L	0.05	0.05	0.04	6-8L	0.59	0.59	0.58
4-95L	.05	.05	.04	6-14L	.41	.42	.41
5-0C	-4.56	-4.59	-4.76	6-19L	.34	.33	.34
5-1.25U	-3.23	-3.26	-3.34	6-38L	.13	.13	.12
5-8U	-1.26	-1.26	-1.30	6-44L	.08	.09	.08
5-14U	.95	.95	.97	6-60L	0	.01	0
5-19U	-.82	-.84	-.87	6-70L	.08	.09	.08
5-38U	-.50	-.50	-.51	7-0C	-1.85	-1.82	-1.82
5-44U	-.42	-.42	-.43	7-5U	-1.67	-1.72	-1.71
5-60U	-.28	-.27	-.30	7-8U	-1.59	-1.60	-1.62
5-70U	-.18	-.18	-.19	7-14U	-1.24	-1.20	-1.24
5-80U	-.08	-.08	-.09	7-19U	-1.00	-.96	-1.00
5-90U	0	.01	0	7-38U	-.50	-.49	-.51
5-95U	.03	.04	.03	7-60U	-.26	-.24	-.27
5-1.25L	.66	.66	.65	7-90U	-.04	-.04	-.05
5-2.5L	.76	.77	.77	7-95U	0	0	-.01
5-5L	.68	.69	.68	7-1.25L	.73	.72	.72
5-8L	.57	.58	.57	7-2.5L	.74	.74	.73
5-14L	.42	.43	.42	7-5L	.65	.65	.65
5-19L	.32	.34	.32	7-8L	.54	.54	.54
5-38L	.13	.13	.13	7-14L	.39	.39	.39
5-44L	.11	.12	.11	7-19L	.28	.31	.30
5-60L	0	.01	0	7-32L	.16	.16	.16
5-70L	.08	.08	.07	7-44L	.08	.08	.07
5-90L	.05	.05	.04	7-60L	0	.01	0
5-95L	.05	.07	.04	7-70L	0	0	.01
6-0C	-4.16	-4.23	-3.97	7-90L	.03	.03	.01
6-5U	-1.89	-1.89	-1.96	7-95L	.04	.05	.03
6-14U	-1.05	-1.05	-1.10	8-0C	-1.89	-2.01	-1.97
6-19U	-.01	0	-.03	8-1.25U	-1.72	-1.81	-1.74
6-32U	-.62	-.53	-.54	8-2.5U	-1.78	-1.86	-1.79
6-44U	-.47	-.38	-.41	8-5U	-1.67	-1.76	-1.76
6-60U	-.26	-.26	-.27	8-8U	-1.42	-1.54	-1.62
6-70U	-.16	-.16	-.18	8-14U	-1.01	-1.16	-1.30
6-80U	-.07	-.07	-.09	8-19U	-.88	-.97	-1.11
6-90U	.03	.03	.03	8-60U	-.05	-.01	-.01
6-100C	.05	.05	.04	8-80U	-.08	-.08	-.09
6-1.25L	.68	.68	.68	8-90U	-.03	-.03	-.04
6-2.5L	.77	.78	.77	8-95U	-.03	-.01	-.03
6-5L	.69	.70	.69	8-100C	0	.01	-.01

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TABLE 9.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$	ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$
4-90L	0.04	0.04	0.04	6-8L	0.58	0.59	0.58
4-95L	.04	.04	.04	6-14L	.41	.41	.41
5-0C	-4.77	-5.18	-4.94	6-19L	.32	.33	.32
5-1.25U	3.35	-3.58	-3.46	6-38L	.12	.12	.12
5-8U	-1.31	-1.38	-1.32	6-44L	.08	.08	.08
5-14U	-.99	-1.04	-1.00	6-60L	0	-.01	0
5-19U	-.87	-.66	-.89	6-70L	.08	.08	.08
5-38U	-.53	-.55	-.54	7-0C	-1.85	-1.99	-1.85
5-44U	-.45	-.48	-.45	7-5U	-1.74	-1.81	-1.76
5-60U	-.30	-.31	-.31	7-8U	-1.62	-1.70	-3.40
5-70U	-.20	-.22	-.20	7-14U	-1.23	-1.29	-1.24
5-80U	-.09	-1.46	-.09	7-19U	-.99	-1.04	-1.00
5-90U	-.01	-.01	-.01	7-38U	-.51	-.53	-.50
5-95U	-.03	.01	.03	7-60U	-.27	-.29	-.27
5-1.25L	.65	.64	.65	7-90U	-.05	-.05	-.05
5-2.5L	.76	.77	.77	7-95U	-.01	-.03	-.01
5-5L	.68	.70	.68	7-1.25L	.72	.73	.72
5-8L	.57	.59	.57	7-2.5L	.73	.79	.73
5-14L	.42	.44	.42	7-5L	.65	.66	.65
5-19L	.32	.33	.36	7-8L	.54	.55	.54
5-38L	.13	.14	.13	7-14L	.39	.38	.38
5-44L	.11	.11	.11	7-19L	.30	.30	1.24
5-60L	0	0	0	7-32L	.13	.15	.15
5-70L	.07	.07	.07	7-44L	.07	.07	.07
5-90L	.04	.04	.04	7-60L	0	-.01	0
5-95L	.05	.04	.05	7-70L	0	-.01	.01
6-0C	-3.82	-3.00	-3.76	7-90L	.01	0	.01
6-5U	-1.97	-2.03	-2.01	7-95L	.03	.03	.01
6-14U	-1.11	-1.19	-2.47	8-0C	-2.04	-2.01	-2.06
6-19U	-.01	-.03	-.03	8-1.25U	-1.80	-1.79	-1.85
6-32U	-.55	-.59	-.57	8-2.5U	-1.85	-1.84	-1.92
6-44U	-.41	-.42	-.41	8-5U	-1.78	-1.77	-1.82
6-60U	-.27	-.30	-.28	8-8U	-1.62	-1.59	-1.57
6-70U	-.19	-.21	-.19	8-14U	-1.29	-1.18	-1.10
6-80U	-.09	-.11	-.09	8-19U	-.77	-1.03	-.53
6-90U	.03	.01	.03	8-60U	-.01	-.01	-.01
6-100C	.04	.04	.04	8-80U	-.09	-.10	-.09
6-1.25L	.68	.70	.68	8-90U	-.04	-.05	-.04
6-2.5L	.77	.77	.77	8-95U	-.03	-.03	-.03
6-5L	.69	.68	.69	8-100C	-.01	-.03	-.01

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TABLE 9.- CONTINUED  
(b) - Continued

ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$	ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$
4-90L	0.03	0.03	0.03	6-8L	0.59	0.59	0.59
4-95L	.03	.03	.03	6-14L	.41	.41	.41
5-0C	-5.28	-5.38	-5.50	6-19L	.33	.33	.33
5-1.25U	-3.66	-3.70	-3.75	6-38L	.12	.12	.12
5-8U	-1.41	-1.43	-1.58	6-44L	.07	.08	.08
5-14U	-1.07	-1.10	-1.11	6-60L	-.01	-.01	-.01
5-19U	-.95	-.97	-.99	6-70L	.07	.07	.08
5-38U	-.56	-.58	-.58	7-0C	-2.03	-2.07	-2.12
5-44U	-.48	-.48	-.49	7-5U	-1.86	-1.87	-1.87
5-60U	-.23	-.33	-.33	7-8U	-1.71	-1.73	-1.72
5-70U	-.15	-.22	-.22	7-14U	-1.26	-1.27	-1.27
5-80U	-.12	-.12	-.12	7-19U	-1.01	-1.01	-1.01
5-90U	-.03	-.03	-.03	7-38U	-.53	-.53	-.52
5-95U	0	0	0	7-60U	-.29	-.29	-.27
5-1.25L	.64	.63	.63	7-90U	-.07	-.07	-.07
5-2.5L	.78	.78	.78	7-95U	-.03	-.03	-.03
5-5L	.70	.70	.70	7-1.25L	.71	.71	.71
5-8L	.59	.59	.59	7-2.5L	.75	.75	.75
5-14L	.44	.44	.44	7-5L	.66	.66	.66
5-19L	.33	.33	.34	7-8L	.55	.55	.55
5-38L	.12	.12	.14	7-14L	.40	.40	.40
5-44L	.11	.11	.11	7-19L	.30	.30	.30
5-60L	0	0	0	7-32L	.15	.15	.16
5-70L	.07	.07	.07	7-44L	.07	.07	.07
5-90L	.04	.04	.04	7-60L	-.01	-.01	-.01
5-95L	.04	.04	.04	7-70L	-.01	-.01	-.01
6-0C	-2.27	-2.12	-1.98	7-90L	0	0	-.01
6-5U	-2.08	-2.07	-2.01	7-95L	.01	.01	0
6-14U	-1.38	-1.30	-1.30	8-0C	-2.03	-2.07	-2.06
6-19U	-.03	-.03	-.03	8-1.25U	-1.78	-1.79	-1.82
6-32U	-.60	-.62	-.63	8-2.5U	-1.83	-1.86	-1.90
6-44U	-.44	-.45	-.45	8-5U	-1.78	-1.81	-1.83
6-60U	-.30	-.30	-.31	8-8U	-1.63	-1.62	-1.58
6-70U	-.21	-.21	-.21	8-14U	-1.27	-1.19	-1.11
6-80U	-.12	-.14	-.14	8-19U	-1.11	-1.06	-.95
6-90U	.01	.01	.03	8-60U	0	0	0
6-100C	.03	.01	.01	8-80U	-.18	-.10	-.10
6-1.25L	.70	.71	.70	8-90U	-.05	-.05	-.05
6-2.5L	.75	.75	.75	8-95U	-.04	-.04	-.04
6-5L	.68	.67	.67	8-100C	-.03	-.03	-.03



TABLE 9.- CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$	ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$
8-1.25L	0.63	0.74	0.74	11-32U	-0.66	-0.64	-0.67
8-2.5L	.60	.78	.77	12-32U	-1.15	-1.11	-1.14
8-5L	.73	.46	.64	TIP-32C	-1.18	-1.15	-1.18
8-8L	.86	.36	.51	11-32L	-.15	-.13	-.15
8-14L	1.01	.26	.36	10-32L	0	.01	0
8-19L	.27	.28	.27	10-70U	-.40	-.41	-.44
8-32L	.14	.15	.14	11-70U	-.66	-.61	-.63
8-38L	.10	.11	.10	12-70U	-.56	-.51	-.52
8-44L	.05	.07	.05	TIP-70C	.01	-.04	.03
8-60L	-.07	-.05	-.07	12-70L	-1.10	-1.03	-1.04
8-95L	.05	.05	.04	11-70L	-.26	-.23	-.25
9-0C	-1.25	-1.14	-1.12	10-70L	-.10	-.08	-.10
9-1.25U	-1.51	-1.47	-1.44	FIN-1	-.16	-.15	-.16
9-2.5U	-1.47	-1.46	-1.43	FIN-2	-.42	-.39	-.42
9-5U	-1.44	-1.31	-1.43	FIN-3	-.04	-.03	-.08
9-14U	-.99	-.97	-1.03	FIN-4	.04	-.05	.08
9-19U	-.74	-.73	-.78	FIN-5	.12	.13	.15
9-32U	-.38	-.38	-.41	FIN-6	.14	.15	.14
9-44U	-.27	-.26	-.29	FIN-7	-2.06	-2.01	-2.06
9-70U	-.14	-.12	-.13	FIN-8	.05	.07	.05
9-80U	-.10	-.09	-.11	FIN-9	.07	.08	.07
9-100C	-.01	-.01	-.03	FIN-10	.05	.07	.07
9-1.25L	.64	.74	.74	FIN-11	.03	.05	.04
9-5L	.58	.58	.58	FIN-12	.05	.07	.05
9-8L	.44	.45	.44	FIN-13	-1.88	-1.81	-1.82
9-14L	.27	.28	.27	FIN-14	-.15	-.13	-.14
9-19L	.19	.20	.19	FIN-15	.03	.04	.03
9-32L	.04	.05	.04	FIN-16	.04	.05	.04
9-38L	.04	.05	.04	FIN-17	.07	.08	.07
9-44L	.05	.07	.05	FIN-18	.05	.07	.05
9-70L	-.05	-.04	.05	FIN-19	.01	.03	.03
9-90L	.01	.03	.01	FIN-20	.04	.05	.04
9-95L	.05	.07	.05	FIN-21	-.10	-.08	-.10
2S-60U	.16	-.15	.16	FIN-22	-.01	.13	-.01
2S-60L	-.03	-.03	-.03	FIN-23	0	.15	0
5S-60U	-.08	-.05	-.08	FIN-24	.01	.04	.03
5S-60L	0	.01	0	FIN-25	-.23	-.20	-.22
8S-60U	-.15	-.15	-.16	FIN-26	-.15	-.13	-.14
8S-60L	0	.01	0	FIN-27	-.08	-.07	-.08
10-32U	.01	.04	.03	FIN-28	-.07	-.08	-.07

TABLE 9.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$	ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$
8-1.25L	0.74	0.73	0.73	11-32U	-0.66	-0.66	-0.67
8-2.5L	.75	.74	.75	12-32U	-1.10	-1.10	-1.11
8-5L	.63	.62	.63	TIP-32C	-1.16	-1.15	-1.18
8-8L	.51	.50	.51	11-32L	-.15	-.15	-.15
8-14L	.36	.35	.36	10-32L	0	-.01	0
8-19L	.27	.27	.27	10-70U	-.47	-.47	-.52
8-32L	.14	.14	.14	11-70U	-.58	-.57	-.56
8-38L	.08	.08	.08	12-70U	-.47	-.46	-.47
8-44L	.04	.04	.04	TIP-70C	.03	.03	.03
8-60L	-.07	-.07	-.07	12-70L	-.95	-.95	-.95
8-95L	.03	.03	.01	11-70L	-.23	-.23	-.23
9-0C	-1.07	-1.03	-1.25	10-70L	-.10	-.09	-.10
9-1.25U	-1.40	-1.32	-1.57	FIN-1	-.16	-.16	-.16
9-2.5U	-1.37	-1.32	-1.55	FIN-2	-.42	-.39	-.40
9-5U	-1.36	-1.31	-1.49	FIN-3	-.04	-.03	-.03
9-14U	-1.01	-1.03	-1.03	FIN-4	.05	.05	.04
9-19U	-.79	-.81	-.78	FIN-5	.14	.12	.12
9-32U	-.42	-.43	-.42	FIN-6	.15	.13	.14
9-44U	-.29	-.28	-.29	FIN-7	-2.06	-1.96	-1.94
9-70U	-.14	-.13	-.14	FIN-8	.07	.07	.07
9-80U	-.11	-.12	-.12	FIN-9	.08	.08	.07
9-100C	-.04	-.05	-.05	FIN-10	.07	.07	.07
9-1.25L	.74	-.73	.74	FIN-11	.04	.04	.04
9-5L	.58	.57	.58	FIN-12	.05	.05	.05
9-8L	.42	.42	.44	FIN-13	-1.81	-1.75	-1.71
9-14L	.53	.27	.27	FIN-14	-.14	-.13	-.14
9-19L	.18	.18	.19	FIN-15	.03	.03	-.03
9-32L	.04	.04	.04	FIN-16	.04	.04	.04
9-38L	.03	.04	.04	FIN-17	.07	.08	.08
9-44L	.04	.04	.04	FIN-18	.07	.05	.07
9-70L	-.07	-.07	-.07	FIN-19	.03	.03	.03
9-90L	0	0	0	FIN-20	.04	.04	.04
9-95L	.04	.03	.03	FIN-21	-.08	-.08	-.08
2S-60U	-.18	-.18	-.19	FIN-22	-.01	-.01	-.01
2S-60L	-.04	-.04	-.04	FIN-23	0	0	0
5S-60U	-.08	-.08	-.08	FIN-24	.03	.03	.03
5S-60L	0	-.01	-.01	FIN-25	-.22	-.22	-.21
8S-60U	-.18	-.18	-.18	FIN-26	-.14	-.13	-.14
8S-60L	-.01	-.01	-.01	FIN-27	-.08	-.07	-.07
10-32U	.03	.03	.03	FIN-28	-.07	-.05	-.05



TABLE 9.- CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = -8'$	$\delta_e = -4$	$\delta_e = -0$	ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = -0$
8-1.25L	0.73	0.73	0.74	11-32U	-0.68	-0.68	0.70
8-2.5L	.75	.75	.75	12-32U	-1.11	-1.12	-1.14
8-5L	.63	.63	.63	TIP-32C	-1.04	-1.19	.16
8-8L	.51	.51	.51	11-32L	-.15	-.16	-.16
8-14L	.36	.36	.36	10-32L	-.01	-.01	-.01
8-19L	.27	.27	.26	10-70U	-.53	-.52	-.52
8-32L	.14	.14	.12	11-70U	-.56	-.58	-.58
8-38L	.08	.08	.08	12-70U	-.45	-.48	-.47
8-44L	.04	.04	.04	TIP-70C	.01	.03	.03
8-60L	-.08	-.08	-.08	12-70L	-.93	-.96	-.95
8-95L	0	.01	0	11-70L	-.23	-.23	-.23
9-0C	-1.19	-1.25	-.97	10-70L	-.10	-.11	-.11
9-1.25U	-1.51	-1.54	-1.25	FIN-1	-.16	-.16	-.16
9-2.5U	-1.49	-1.54	-1.25	FIN-2	-.40	-.37	-.37
9-5U	-1.45	-1.47	-1.25	FIN-3	-.03	0	-.01
9-14U	1.04	1.04	1.07	FIN-4	.04	.05	.05
9-19U	-.82	-.81	-.89	FIN-5	.12	.12	.12
9-32U	-.44	-.44	-.48	FIN-6	.14	.14	.14
9-44U	-.30	-.30	-.31	FIN-7	-1.92	-1.83	-1.81
9-70U	-.15	-.15	-.16	FIN-8	.07	.08	.08
9-80U	-.12	-.12	-.14	FIN-9	.07	.08	.08
9-100C	-.07	-.07	-.08	FIN-10	.05	.07	.07
9-1.25L	.74	.74	.74	FIN-11	.04	.04	.04
9-5L	.58	.58	.58	FIN-12	.05	.05	.05
9-8L	.44	.44	.42	FIN-13	-1.67	-1.54	-1.56
9-14L	.27	.27	.26	FIN-14	-.14	-.12	-.12
9-19L	.18	.19	.18	FIN-15	.03	.03	.03
9-32L	.04	.04	.03	FIN-16	.04	.04	.04
9-38L	.03	.03	.03	FIN-17	.07	.08	.08
9-44L	.04	.04	.04	FIN-18	.05	.07	.05
9-70L	-.07	-.07	-.07	FIN-19	.03	.03	.03
9-90L	-.01	0	-.01	FIN-20	.04	.04	.04
9-95L	.03	.03	.03	FIN-21	-.08	-.08	-.08
2S-60U	-.21	-.21	-.22	FIN-22	-.01	-.01	-.01
2S-60L	-.04	-.05	-.05	FIN-23	0	0	0
5S-60U	-.10	-.10	-.10	FIN-24	.03	.03	.03
5S-60L	-.01	-.01	-.01	FIN-25	-.21	-.21	-.21
8S-60U	-.19	-.19	-.19	FIN-26	-.14	-.12	-.12
8S-60L	-.01	-.01	-.03	FIN-27	-.07	-.07	-.07
10-32U	.01	.03	.03	FIN-28	-.05	-.05	-.05

TABLE 9.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$	ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$
8-1.25L	0.74	0.72	0.71	11-32U	-0.70	-0.68	-0.71
8-2.5L	.75	.74	.74	12-32U	-1.14	-1.11	-1.12
8-5L	.63	.64	.63	TIP-32C	-1.21	-1.16	-1.21
8-8L	.51	.51	.51	11-32L	-.16	-.15	-.16
8-14L	.34	.36	.36	10-32L	-.01	0	-.01
8-19L	.26	.28	.27	10-70U	-.53	-.54	-.58
8-32L	.12	.13	.13	11-70U	-.58	-.55	-.56
8-38L	.08	.09	.08	12-70U	-.48	-.46	-.47
8-44L	.04	.05	.04	TIP-70C	.03	.04	.01
8-60L	-.10	-.08	-.10	12-70L	-.96	-.95	-.93
8-95L	0	.01	0	11-70L	-.25	-.23	-.23
9-0C	-1.00	-1.37	-1.31	10-70L	-.11	-.09	-.11
9-1.25U	-1.27	-1.67	-1.60	FIN-1	-.16	-.13	-.16
9-2.5U	-1.27	-1.66	-1.60	FIN-2	-.36	-.34	-.36
9-5U	-1.27	-1.58	-1.12	FIN-3	-.01	.01	0
9-14U	-1.08	-1.04	-1.10	FIN-4	.05	.07	.05
9-19U	-.89	-.77	-.85	FIN-5	.12	.13	.14
9-32U	-.48	-.42	-.47	FIN-6	.14	.15	.14
9-44U	-.33	-.28	-.33	FIN-7	-1.79	-1.67	-1.77
9-70U	-.16	-.13	-.16	FIN-8	.08	.09	.08
9-80U	-.14	-.12	-.15	FIN-9	.08	.08	.08
9-100C	-.08	-.07	-.08	FIN-10	.07	.08	.07
9-1.25L	.74	.74	.74	FIN-11	.04	.05	.04
9-5L	.58	.59	.59	FIN-12	.05	.07	.05
9-8L	.42	.45	.44	FIN-13	-1.53	-1.42	-1.49
9-14L	.26	.28	.27	FIN-14	.12	-.11	-.11
9-19L	.18	.19	.18	FIN-15	.03	.04	.04
9-32L	.03	.04	.04	FIN-16	.04	.05	.05
9-38L	.03	.04	.03	FIN-17	.08	.09	.08
9-44L	.04	.05	.05	FIN-18	.07	.08	.07
9-70L	-.07	-.05	-.07	FIN-19	.03	.03	.03
9-90L	-.01	0	-.01	FIN-20	.04	.05	.04
9-95L	.31	.03	.01	FIN-21	-.08	-.07	-.11
2S-60U	-.23	-.23	-.26	FIN-22	-.01	0	-.01
2S-60L	-.07	-.05	-.07	FIN-23	0	.01	0
5S-60U	-.11	-.09	-.12	FIN-24	.03	.04	.01
5S-60L	-.01	-.01	-.03	FIN-25	-.21	-.19	-.21
8S-60U	-.21	-.19	-.21	FIN-26	-.12	-.12	-.14
8S-60L	-.03	-.05	-.03	FIN-27	-.21	-.05	-.07
10-32U	.03	.04	-.03	FIN-28	-.19	-.05	-.05



TABLE 9.- CONCLUDED

(b) - Concluded

ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$	ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$
8-1.25L	0.73	0.71	0.71	11-32U	-0.71	-0.73	-0.71
8-2.5L	.75	.74	.74	12-32U	-1.14	-1.14	-1.12
8-5L	.64	.64	.63	TIP-32C	-1.22	-1.22	-1.22
8-8L	.51	.51	.52	11-32L	-.16	-.16	-.16
8-14L	.36	.36	.36	10-32L	-.01	-.01	-.01
8-19L	.27	.27	.25	10-70U	-.59	-.60	-.62
8-32L	.12	.12	.12	11-70U	-.56	-.55	-.55
8-38L	.08	.08	.08	12-70U	-.47	-.47	-.45
8-44L	.04	.04	.04	TIP-70C	.03	.03	.03
8-60L	-.10	-.11	-.11	12-70L	-.93	.44	-.93
8-95L	-.01	-.01	-.01	11-70L	-.25	-.25	-.23
9-0C	-1.23	-1.36	-1.47	10-70L	-.11	-.11	-.11
9-1.25U	-1.52	-1.64	-1.77	FIN-1	-.15	-.15	-.16
9-2.5U	-1.51	-1.63	-1.75	FIN-2	-.34	-.34	-.34
9-5U	-1.47	-1.56	-1.64	FIN-3	0	0	0
9-14U	-1.11	-1.11	-1.11	FIN-4	.05	.05	.05
9-19U	-.88	-.86	-.85	FIN-5	.14	.12	.12
9-32U	-.48	-.47	-.45	FIN-6	.15	.14	.14
9-44U	-.33	-.33	-.33	FIN-7	-1.71	-1.68	-1.68
9-70U	-.16	-.16	-.16	FIN-8	.08	.08	.08
9-80U	-.15	-.15	-.15	FIN-9	.08	.08	.08
9-100C	-.10	-.10	-.10	FIN-10	.07	.07	.07
9-1.25L	.74	.74	.73	FIN-11	.04	.04	.04
9-5L	.59	-.59	.59	FIN-12	.05	.05	.05
9-8L	.44	.44	.45	FIN-13	-1.45	-1.43	-1.41
9-14L	.27	.27	.27	FIN-14	-.11	-.11	-.11
9-19L	.28	.18	.19	FIN-15	.04	.04	.04
9-32L	.03	.04	.03	FIN-16	.05	.05	.05
9-38L	.03	.44	.03	FIN-17	.08	.08	.08
9-44L	.04	.04	.04	FIN-18	.07	.07	.07
9-70L	-.08	-.08	-.08	FIN-19	.03	.01	.01
9-90L	-.01	-.03	-.03	FIN-20	.04	.04	.04
9-95L	.01	.01	0	FIN-21	-.08	-.08	-.08
2S-60U	-.26	-.27	-.29	FIN-22	-.08	-.01	-.01
2S-60L	-.07	-.07	-.07	FIN-23	0	.03	0
5S-60U	-.12	-.11	-.12	FIN-24	.03	-.21	.03
5S-60L	-.03	-.03	-.03	FIN-25	-.19	-.14	-.21
8S-60U	-.21	-.22	-.22	FIN-26	-.12	-.07	-.14
8S-60L	-.03	-.03	-.03	FIN-27	-.07	-.07	-.08
10-32U	.03	.03	.01	FIN-28	-.05	-	-.07

TABLE 10.- EFFECT OF ELERUDDER DEFLECTION ON THE PRESSURE COEFFICIENTS OVER THE TAIL, CLEAN CONDITION;  $\beta, 8^\circ$ . (a)  $\alpha, 0^\circ$

ORIFICE	$\delta e = -32$	$\delta e = -28$	$\delta e = -24$	ORIFICE	$\delta e = -32$	$\delta e = -28'$	$\delta e = -24'$
1-0C	-0.70	-0.65	-0.55	3-1.25U	0.61	0.59	0.59
1-1.25U	.51	.51	.49	3-8U	.34	.34	.32
1-2.5U	.46	.46	.43	3-14U	.22	.22	.20
1-5U	.36	.36	.34	3-19U	.16	.15	.13
1-8U	.28	.28	.26	3-32U	.08	.08	.07
1-14U	.22	.20	.19	3-60U	.01	0	-.01
1-19U	.15	.13	.12	3-70U	.08	.08	.07
1-32U	.09	.08	.07	3-95U	.01	.01	.01
1-70U	.11	.11	.11	3-1.25L	-1.51	-1.48	-1.43
1-80U	-.01	-.03	-.03	3-2.5L	-1.23	-1.22	-1.18
1-90U	-.01	-.01	-.03	3-5L	-.99	-.97	-.96
1-95U	.01	.01	.01	3-8L	-.72	-.70	-.69
1-2.5L	-.69	-.68	-.64	3-14L	-.55	-.54	-.54
1-5L	-.55	-.54	-.51	3-32L	-.34	-.34	-.34
1-14L	-.38	-.38	-.36	3-38L	-.31	-.31	-.31
1-19L	-.36	-.35	-.35	3-60L	-.20	-.19	-.19
1-32L	-.28	-.27	-.27	3-80L	-.05	-.05	-.05
1-38L	-.28	-.28	-.27	3-95L	.04	.05	.05
1-60L	-.20	-.20	-.19	4-0C	-1.93	-1.85	-1.73
1-70L	-.15	-.15	-.15	4-1.25U	.62	.62	.62
1-80L	-.09	-.09	-.09	4-2.5U	.58	.58	.57
2-1.25U	.54	.53	.53	4-14U	.18	.18	.16
2-2.5U	.51	.50	.49	4-19U	.16	.16	.15
2-5U	.39	.39	.36	4-32U	.07	.07	.05
2-22U	.09	.09	.08	4-38U	.04	.03	.03
2-38U	.01	.01	.03	4-60U	-.05	-.07	-.07
2-44U	.01	0	0	4-70U	.05	.05	.05
2-70U	.05	.04	.04	4-90U	.03	.03	.03
2-80U	0	0	0	4-95U	.05	.05	.05
2-95U	.03	.03	.01	4-100C	.09	.09	.09
2-100C	.01	.01	.01	4-2.5L	-1.23	-1.22	-1.18
2-1.25L	-1.26	-1.23	-1.18	4-5L	-.93	-.92	-.89
2-2.5L	-1.03	-1.01	-.97	4-8L	-.70	-.69	-.68
2-5L	-.68	-.80	-.77	4-14L	.62	.61	.59
2-14L	-.50	-.49	-.49	4-19L	-.51	-.51	-.50
2-32L	-.32	-.32	-.32	4-32L	-.32	-.32	-.32
2-38L	-.31	-.31	-.31	4-38L	-.34	-.34	-.34
2-44L	-.28	-.28	-.28	4-44L	.28	.28	.28
2-70L	-.15	-.13	-.13	4-60L	-.19	-.19	-.18
2-95L	.03	.03	.03	4-80L	-.04	-.03	-.04



TABLE 10.- CONTINUED  
(a) - Continued

ORIFICE	$\delta_e = -20'$	$\delta_e = -16'$	$\delta_e = -12'$	ORIFICE	$\delta_e = -20'$	$\delta_e = -16'$	$\delta_e = -12'$
1-0C	-0.54	-0.46	-0.42	3-1.25U	0.61	0.59	0.59
1-1.25U	.50	.46	.46	3-8U	.31	.30	.28
1-2.5U	.43	.41	.39	3-14U	.18	.19	.16
1-5U	.34	.31	.30	3-19U	.12	.11	.09
1-8U	.26	.23	.36	3-32U	.05	.04	.03
1-14U	.18	.16	.15	3-60U	-.01	-.03	-.04
1-19U	.11	.09	.07	3-70U	.05	.05	-.04
1-32U	.08	.03	.01	3-95U	.01	.01	0
1-70U	-.11	-.12	-.12	3-1.25L	-1.41	-1.34	-1.31
1-80U	-.04	-.05	-.07	3-2.5L	-1.16	-1.14	-1.11
1-90U	-.03	-.04	-.05	3-5L	-.95	-.92	-.91
1-95U	.01	0	0	3-8L	-.68	-.68	-.66
1-2.5L	-.64	-.61	-.87	3-14L	-.53	-.51	-.51
1-5L	-.12	-.50	-.49	3-32L	-.34	-.34	-.32
1-14L	-.36	-.36	-.35	3-38L	-.31	-.31	-.31
1-19L	-.35	-.35	-.35	3-60L	-.19	-.19	-.19
1-32L	-.27	-.27	-.27	3-80L	-.05	-.07	-.07
1-38L	-.27	-.27	-.27	3-95L	.05	.04	.04
1-60L	-.20	-.20	-.20	4-0C	-1.61	-1.41	-1.44
1-70L	-.15	-.15	-.15	4-1.25U	.62	.61	.61
1-80L	-.09	-.11	-.11	4-2.5U	.57	.55	.54
2-1.25U	.50	.47	.45	4-14U	.16	.15	.13
2-2.5U	.49	.46	.45	4-19U	.13	.12	.11
2-5U	.35	.34	.32	4-32U	.05	.04	.03
2-32U	.07	.05	.04	4-38U	.01	0	-.01
2-38U	-.04	-.05	-.08	4-60U	-.07	-.08	-.09
2-44U	-.01	-.03	-.04	4-70U	.04	.04	.03
2-70U	.03	.01	0	4-90U	.01	0	.01
2-80U	-.01	-.03	-.03	4-95U	.05	.04	.18
2-95U	.01	.01	.01	4-100C	.11	.09	.09
2-100C	.01	.01	.01	4-2.5L	-1.15	-1.14	-1.11
2-1.25L	-1.16	-1.11	-1.07	4-5L	.88	.87	.85
2-2.5L	-.96	-.93	-.91	4-8L	-.66	-.66	-.65
2-5L	-.77	-.74	-.73	4-14L	-.58	-.58	-.58
2-14L	-.47	-.47	-.46	4-19L	-.50	-.50	-.50
2-32L	-.32	-.31	-.31	4-32L	-.31	-.32	-.31
2-38L	-.31	-.30	-.31	4-38L	-.34	-.34	-.35
2-44L	-.28	-.28	-.28	4-44L	-.28	-.28	-.28
2-70L	-.15	-.15	-.15	4-60L	-.18	-.19	-.19
2-95L	.03	.01	.01	4-80L	-.03	-.04	-.04

TABLE 10.- CONTINUED

(a) - Continued

ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$	ORIFICE	$\delta_e = -8'$	$\delta_e = -4$	$\delta_e = 0$
1-0C	-0.36	-0.30	-0.35	3-1.25U	0.59	0.59	0.58
1-1.25U	.42	.42	.45	3-3U	.27	.26	.26
1-2.5U	.38	.35	.38	3-14U	.15	.13	.12
1-5U	.28	.26	.27	3-19U	.08	.07	.07
1-8U	.22	.19	.19	3-32U	.01	0	0
1-14U	.13	.11	.11	3-60U	-.04	-.05	-.05
1-19U	.05	.04	.04	3-70U	.03		0
1-32U	0	-.03	-.04	3-95U	0	0	0
1-70U	-.13	-.13	-.15	3-1.25L	-1.27	-1.24	-1.23
1-80U	-.08	-.09	-.11	3-2.5L	-1.10	-1.07	-1.07
1-90U	-.07	-.07	-.08	3-5L	-.89	-.88	-.88
1-95U	0	0	-.01	3-8L	.70	-.65	-.64
1-2.5L	-.57	-.55	-.57	3-14L	-.46	-.51	-.51
1-5L	-.51	-.46	-.49	3-32L	-.34	-.32	-.34
1-14L	-.38	-.35	-.35	3-38L	-.31	-.31	-.31
1-19L	-.36	-.34	-.34	3-60L	-.20	-.20	-.20
1-32L	-.27	-.27	-.27	3-80L	-.07	-.07	-.07
1-38L	-.27	-.27	-.28	3-95L	.04	.04	.04
1-60L	-.20	-.22	-.22	4-0C	-1.35	-1.27	-1.20
1-70L	-.16	-.16	-.18	4-1.25U	.61	.61	.59
1-80L	-.11	-.12	-.12	4-2.5U	.54	.69	.66
2-1.25U	.45	.54	.15	4-14U	.12	.11	.09
2-2.5U	.45	.42	.43	4-19U	.09	.08	.08
2-5U	.31	.30	.30	4-32U	.01	0	0
2-32U	.03	0	0	4-38U	-.01	0	-.04
2-38U	-.08	-.11	-.11	4-60U	-.09	-.11	-.12
2-44U	-.04	-.01	-.08	4-70U	.03	.01	.01
2-70U	-.03	-.05	-.05	4-90U	.01	0	0
2-80U	-.04	-.04	-.05	4-95U	.04	.04	.04
2-95U	0	0	0	4-100C	.09	.09	.09
2-100C	0	0	0	4-2.5L	1.08	1.05	1.04
2-1.25L	-1.04	---	-1.01	4-5L	.84	.82	.81
2-2.5L	-.89	-.87	-.88	4-8L	-.64	-.62	-.62
2-5L	-.72	-1.00	-.72	4-14L	-.57	.57	-.57
2-14L	-.46	-.46	-.46	4-19L	-.49	-.49	-.49
2-32L	-.31	-.32	-.32	4-32L	-.31	-.31	-.31
2-38L	-.31	-.32	-.31	4-38L	-.34	-.34	-.34
2-44L	-.28	-.28	-.28	4-44L	-.28	-.28	-.28
2-70L	-.15	-.16	-.16	4-60L	-.19	-.19	-.19
2-95L	.01	0	0	4-80L	-.04	-.04	-.05



TABLE 10.- CONTINUED

(a) - Continued

ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$
1-0C	-0.31	-0.28	-0.24	3-1.25U	0.58	0.58	0.57
1-1.25U	.42	.41	.41	3-8U	.23	.23	.22
1-2.5U	.35	.34	.32	3-14U	.11	.09	.08
1-5U	.26	.24	.23	3-19U	.04	.04	.03
1-8U	.16	.16	.15	3-32U	-.01	-.03	-.04
1-14U	.12	.08	.07	3-60U	-.07	-.08	-.09
1-19U	.01	0	-.01	3-70U	-.03	-.04	-.04
1-32U	-.05	-.07	-.08	3-95U	-.01	-.01	-.01
1-70U	-.16	-.16	-.18	3-1.25L	-1.19	-1.16	-1.14
1-80U	-.12	-.13	-.15	3-2.5L	-1.04	-1.03	-1.01
1-90U	-.09	-.11	-.11	3-5L	-.87	-.85	-.85
1-95U	-.01	-.03	-.04	3-8L	-.64	-.62	-.62
1-2.5L	-.55	-.54	-.54	3-14L	-.51	-.50	-.50
1-5L	-.47	-.46	-.46	3-32L	-.34	-.34	-.34
1-14L	-.35	-.35	-.35	3-38L	-.31	-.31	-.32
1-19L	-.34	-.34	-.34	3-60L	-.22	-.22	-.22
1-32L	-.28	-.27	-.27	3-80L	.08	.08	.08
1-38L	-.28	-.28	-.28	3-95L	.04	.03	.03
1-60L	-.22	-.22	-.23	4-0C	-1.11	-1.05	.36
1-70L	-.18	-.19	-.20	4-1.25U	.59	.58	.58
1-80L	-.13	-.13	-.15	4-2.5U	.51	.50	.49
2-1.25U	.53	.51	.51	4-14U	.08	.07	.07
2-2.5U	.41	.39	.39	4-19U	.07	.05	.05
2-5U	.27	.26	.26	4-32U	-.01	-.03	-.03
2-32U	-.03	-.04	-.05	4-38U	-.03	-.04	-.04
2-38U	-.13	-.15	-.16	4-60U	-.12	-.13	-.13
2-44U	-.04	-.05	-.07	4-70U	0	0	0
2-70U	-.08	-.09	-.12	4-90U	0	-.01	-.01
2-80U	-.07	-.07	-.08	4-95U	.04	.03	.03
2-95U	-.01	-.01	-.01	4-100C	.09	.09	.09
2-100C	0	-.01	-.01	4-2.5L	1.03	1.00	.36
2-1.25L	-.97	-.95	-.93	4-5L	.81	.80	.78
2-2.5L	-.85	-.84	-.84	4-8L	-.61	-.61	-.62
2-5L	-.69	-.69	-.69	4-14L	.57	.57	.57
2-14L	-.45	-.45	-.45	4-19L	-.49	-.49	-.49
2-32L	-.32	-.32	-.32	4-32L	-.32	-.32	-.32
2-38L	-.32	-.32	-.32	4-38L	-.34	-.34	-.34
2-44L	-.28	-.28	-.28	4-44L	-.28	-.28	-.30
2-70L	-.16	-.18	-.18	4-60L	-.20	-.20	-.20
2-95L	0	0	-.01	4-80L	-.05	-.05	-.05

TABLE 10.- CONTINUED

(a) - Continued

ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$	ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$
1-0C	-0.24	-0.22	-0.26	3-1.25U	0.57	0.57	0.55
1-1.25U	.39	.38	.41	3-8U	.20	.19	.18
1-2.5U	.32	.31	.32	3-14U	.08	.07	.05
1-5U	.22	.20	.22	3-19U	.01	0	-.01
1-8U	.13	.12	.12	3-32U	-.05	-.46	-.07
1-14J	.05	.04	.04	3-60U	-.09	-.49	-.12
1-19U	-.03	-.04	-.04	3-70U	-.05	-.47	-.07
1-32U	-.09	-.11	-.13	3-95U	-.03	-.03	-.03
1-70U	-.19	-.19	-.20	3-1.25L	1.12	1.10	1.08
1-80U	-.16	-.16	-.18	3-2.5L	-1.01	-.99	.36
1-90U	-.12	-.13	-.15	3-5L	-.84	-.82	-.84
1-95U	-.05	-.05	-.08	3-8L	-.62	-.62	-.59
1-2.5L	-.53	-.53	-.55	3-14L	-.50	-.50	-.50
1-5L	-.45	-.45	-.46	3-32L	-.35	-.34	-.34
1-14L	-.35	-.35	-.35	3-38L	-.32	-.32	-.32
1-19L	-.34	-.34	-.35	3-60L	-.23	-.23	-.23
1-32L	-.27	-.27	-.28	3-80L	-.09	-.07	-.09
1-38L	-.28	-.28	-.28	3-95L	.03	.03	.01
1-60L	-.23	-.38	-.24	4-0C	-.95	-.91	-.88
1-70L	-.20	-.35	-.22	4-1.25U	.58	.57	.57
1-80L	-.15	-.16	-.16	4-2.5U	.49	.34	.47
2-1.25U	.50	.50	.49	4-14U	.05	.04	.04
2-2.5U	.38	.36	.36	4-19U	.04	.03	.03
2-5U	.23	.23	.22	4-32U	-.04	-.04	-.05
2-32U	-.05	-.07	-.08	4-38U	-.05	-.07	-.08
2-38U	-.18	-.19	-.20	4-60U	-.15	-.15	-.16
2-44U	-.08	-.09	-.11	4-70U	-.01	-.01	-.01
2-70U	-.13	-.15	-.16	4-90U	-.01	-.01	-.01
2-80U	-.09	-.09	-.11	4-95U	.03	.03	.03
2-95U	-.03	-.03	-.03	4-100C	.09	.09	.09
2-100C	-.01	-.01	-.01	4-2.5L	-.97	-.96	-.96
2-1.25L	-.91	-.89	-.91	4-5L	-.78	-.78	-.77
2-2.5L	-.81	-.81	-.81	4-8L	-.59	-.59	-.59
2-5L	-.68	-.68	-.68	4-14L	-.55	-.55	-.57
2-14L	-.45	-.45	-.46	4-19L	-.49	-.49	-.49
2-32L	-.32	-.32	-.34	4-32L	-.32	-.32	-.32
2-38L	-.32	-.32	-.34	4-38L	-.35	-.34	-.35
2-44L	-.30	-.30	-.31	4-44L	-.30	-.30	-.30
2-70L	-.18	-.19	-.19	4-60L	-.22	-.22	-.22
2-95L	-.01	-.01	-.03	4-80L	-.07	-.07	-.07



TABLE 10.- CONTINUED

(a) - Continued

ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$	ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$
4-90L	0.03	0.03	0.04	6-8L	0.99	-0.64	-0.61
4-95L	.07	.07	.07	6-14L	-.52	-.52	-.50
5-0C	-1.51	-1.47	-1.31	6-19L	-.45	-.44	-.42
5-1.25U	.62	.60	.61	6-38L	-.30	-.30	-.30
5-8U	.31	.31	.31	6-44L	-.27	-.27	-.26
5-14U	.21	.21	.20	6-60L	-.19	-.19	-.18
5-19U	.14	.12	.12	6-70L	-.10	-.10	-.09
5-38U	.04	.03	.03	7-0C	-.78	-.71	-.64
5-44U	.04	.04	.04	7-5U	.36	.34	.34
5-60U	.03	-.03	-.03	7-8U	.26	.26	.26
5-70U	.05	.05	.05	7-14U	.16	.15	.15
5-80U	-.01	-.01	0	7-19U	.12	.12	.11
5-90U	.04	.03	.03	7-38U	-.01	-.01	-.01
5-95U	.04	.03	.03	7-60U	-.04	-.04	-.04
5-1.25L	-1.44	-1.41	-1.32	7-90U	.01	.01	.01
5-2.5L	-1.10	-1.08	-1.03	7-95U	.05	.05	.05
5-5L	-.92	-.92	-.87	7-1.25L	-1.19	-1.15	-1.10
5-8L	-.68	-.67	-.65	7-2.5L	-1.04	-1.01	-.96
5-14L	-.53	-.53	-.50	7-5L	-.81	-.79	-.76
5-19L	-.49	-.48	-.46	7-8L	-.64	-.63	-.59
5-38L	.31	-.33	-.31	7-14L	-.48	-.48	-.46
5-44L	.27	-.27	-.26	7-19L	-.44	-.42	-.41
5-60L	.21	-.21	-.19	7-32L	-.31	-.31	-.30
5-70L	-.10	-.10	-.09	7-44L	-.25	-.25	-.23
5-90L	.04	.04	.04	7-60L	-.16	-.16	-.16
5-95L	.08	.08	.08	7-70L	-.11	-.10	-.09
6-0C	-1.26	-1.21	-1.10	7-90L	.04	.04	.05
6-5U	.38	.37	.36	7-95L	.08	.08	.09
6-14U	.18	.16	.16	8-0C	-.62	-.56	-.50
6-19U	-.04	-.04	-.03	8-1.25U	.56	.56	.55
6-32U	.03	.03	.03	8-2.5U	.42	.42	.42
6-44U	0	0	0.1	8-5U	.31	.30	.31
6-60U	-.03	-.03	-.03	8-8U	.22	.22	.22
6-70U	-.04	-.04	-.04	8-14U	.12	.12	.12
6-80U	0	0	0	8-19U	.04	.03	.03
6-90U	-.03	-.03	-.01	8-60U	.01	.01	.01
6-100C	.11	.11	.12	8-80U	-.03	-.01	-.01
6-1.25L	-1.26	-1.23	-1.16	8-90U	.01	.01	.03
6-2.5L	-1.18	-1.16	-1.11	8-95U	.10	-.11	-.09
6-5L	-.86	-.85	-.81	8-100C	.12	.12	.12

TABLE 10.- CONTINUED

(a) - Continued

ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$	ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$
4-90L	0.04	0.03	0.04	6-8L	-0.61	-0.59	-0.56
4-95L	.07	.07	.07	6-14L	-.49	-.49	-.47
5-0C	-1.24	-1.16	-1.03	6-19L	-.42	-.42	-.40
5-1.25U	.61	.59	.60	6-38L	-.28	-.30	-.28
5-8U	.30	.30	.28	6-44L	-.26	-.26	-.25
5-14U	.19	.18	.17	6-60L	-.18	-.18	-.17
5-19U	.11	.11	.11	6-70L	-.09	-.09	-.08
5-38U	.03	.01	.01	7-0C	-.57	-.53	-.43
5-44U	.03	.03	.03	7-5U	.32	.32	.31
5-60U	-.04	-.04	-.04	7-8U	.24	.24	.24
5-70U	.05	.04	.04	7-14U	.15	.13	.13
5-80U	0	-.01	0	7-19U	.11	.09	.11
5-90U	.03	.03	.03	7-38U	-.03	-.03	-.03
5-95U	.03	.03	.04	7-60U	-.04	-.04	-.04
5-1.25L	-1.29	-1.26	-1.19	7-90U	.01	.01	.01
5-2.5L	-1.00	-.99	-.93	7-95U	.05	.05	.07
5-5L	-.85	-.85	-.80	7-1.25L	-1.05	-1.04	-.97
5-8L	-.64	-.64	-.60	7-2.5L	-.93	-.93	-.88
5-14L	-.50	-.50	-.47	7-5L	-.74	-.74	-.71
5-19L	-.45	-.45	-.43	7-8L	-.58	-.58	-.56
5-38L	-.31	-.31	-.29	7-14L	-.45	-.45	-.43
5-44L	-.26	-.26	-.25	7-19L	-.41	-.41	-.39
5-60L	-.19	-.20	-.19	7-32L	-.30	-.30	-.28
5-70L	-.09	-.09	-.08	7-44L	-.23	-.23	-.21
5-90L	.04	.04	.04	7-60L	-.16	-.16	-.15
5-95L	.08	.08	.08	7-70L	-.09	-.09	-.08
6-0C	-1.01	-.97	-.85	7-90L	.05	.04	.05
6-5U	.36	.35	.32	7-95L	.09	.09	.09
6-14U	.16	.15	.15	8-0C	-.45	-.41	-.32
6-19U	-.03	-.03	-.01	8-1.25U	.55	.54	.55
6-32U	.03	.01	.01	8-2.5U	.41	.41	.39
6-44U	-.01	-.01	-.01	8-5U	.30	.30	.28
6-60U	-.03	-.04	-.03	8-8U	.22	.34	.20
6-70U	-.04	-.04	-.04	8-14U	.11	.11	.11
6-80U	0	0	0	8-19U	.03	.03	.01
6-90U	-.01	-.01	-.01	8-60U	.01	0	.01
6-100C	.12	.12	.12	8-80U	-.01	-.01	-.01
6-1.25L	-1.12	-1.10	-1.03	8-90U	.03	.03	.04
6-2.5L	-1.10	-1.08	-1.03	8-95U	-.09	-.09	-.09
6-5L	-.80	-.78	-.75	8-100C	.13	.13	.15



TABLE 10.- CONTINUED

(a) - Continued

ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$	ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$
4-90L	0.03	0.01	0.01	6-8L	-0.57	-0.58	-0.59
4-95L	.07	.05	.04	6-14L	-.46	-.49	-.49
5-0C	-.96	-.93	-.90	6-19L	-.39	-.42	-.42
5-1.25U	.59	-.59	.59	6-38L	-.28	-.30	-.30
5-8U	.27	.25	.25	6-44L	-.26	-.27	-.27
5-14U	.16	.14	.14	6-60L	-.18	-.21	-.19
5-19U	.09	.07	.05	6-70L	-.08	-.10	-.11
5-38U	0	-.01	-.03	7-0C	-.36	-.37	-.36
5-44U	.01	0	-.01	7-5U	.31	.29	.29
5-60U	-.04	-.07	-.08	7-8U	.23	.21	.21
5-70U	.03	.03	.04	7-14U	.12	.11	.11
5-80U	-.01	-.03	-.03	7-19U	.08	.07	.07
5-90U	.03	.01	0	7-38U	-.03	-.05	-.05
5-95U	.03	.01	0	7-60U	-.05	-.07	-.07
5-1.25L	-1.16	-1.16	-1.15	7-90U	.01	-.01	0
5-2.5L	-.92	-.93	-.93	7-95U	.05	.04	.04
5-5L	-.80	-.82	-.82	7-1.25L	-.96	-.97	-.96
5-8L	-.59	-.62	-.62	7-2.5L	-.88	-.90	-.89
5-14L	-.47	-.49	-.49	7-5L	-.70	-.73	-.71
5-19L	-.43	-.45	-.45	7-8L	-.57	-.58	-.58
5-38L	-.30	-.31	-.31	7-14L	-.43	-.45	-.45
5-44L	-.26	-.27	-.27	7-19L	-.39	-.41	-.41
5-60L	-.20	-.22	-.22	7-32L	-.28	-.30	-.30
5-70L	-.09	-.11	-.11	7-44L	-.22	-.23	-.23
5-90L	.04	.03	.03	7-60L	-.16	-.18	-.18
5-95L	.08	.07	.07	7-70L	-.08	-.10	-.10
6-0C	-.78	-.79	-.77	7-90L	.05	.04	.04
6-5U	.32	.31	.30	7-95L	.09	.07	.08
6-14U	.13	.12	.11	8-0C	-.28	-.29	-.27
6-19U	-.01	-.03	-.04	8-1.25U	.54	.52	.52
6-32U	.01	.04	.03	8-2.5U	.39	.44	.37
6-44U	-.01	0	-.01	8-5U	.27	.26	.26
6-60U	-.04	-.05	-.07	8-8U	.19	.18	.18
6-70U	-.05	-.07	-.07	8-14U	.11	-.05	.08
6-80U	0	-.03	-.03	8-19U	.01	-.01	-.01
6-90U	-.01	-.03	-.03	8-60U	.01	-.01	-.01
6-100C	.12	.11	.11	8-80U	-.01	-.03	-.03
6-1.25L	-1.00	-1.01	-1.00	8-90U	.03	.01	.01
6-2.5L	-1.03	-1.04	-1.03	8-95U	-.09	-.11	-.11
6-5L	-.74	-.77	-.77	8-100C	.13	.12	.12

TABLE 10. - CONTINUED  
(a) - Continued

ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$	ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$
4-90L	0.01	0.01	0.01	6-8L	-0.55	-0.55	-0.54
4-95L	.05	.05	.05	6-14L	-.46	-.46	-.46
5-0C	-.81	-.76	-.69	6-19L	-.41	-.41	-.39
5-1.25U	.58	.57	.57	6-38L	-.28	-.30	-.30
5-8U	.23	.23	.22	6-44L	-.27	-.27	-.27
5-14U	.13	.12	.11	6-60L	-.19	-.19	-.20
5-19U	.05	.04	.04	6-70L	-.09	-.09	-.09
5-38U	-.01	-.03	-.04	7-0C	-.27	-.24	-.19
5-44U	-.01	-.01	-.03	7-5U	.27	.27	.26
5-60U	-.07	-.08	-.08	7-8U	.20	.19	.19
5-70U	.04	.04	.04	7-14U	.11	.09	.08
5-80U	-.03	.04	-.04	7-19U	.07	.05	.05
5-90U	.01	0	0	7-38U	-.05	-.07	-.07
5-95U	.01	.01	.01	7-60U	-.07	-.07	-.08
5-1.25L	-1.08	-1.07	-1.03	7-90U	0	0	0
5-2.5L	-.88	-.87	-.85	7-95U	.05	.05	.05
5-5L	-.78	-.77	-.76	7-1.25L	-.89	-.88	-.85
5-8L	-.58	-.58	-.58	7-2.5L	-.84	-.81	-.82
5-14L	-.47	-.47	-.47	7-5L	-.69	-.69	-.68
5-19L	-.43	-.43	-.43	7-8L	-.55	-.54	-.54
5-38L	-.30	-.31	-.31	7-14L	-.43	-.43	-.43
5-44L	-.27	-.27	-.27	7-19L	-.39	-.39	-.39
5-60L	-.22	-.22	-.22	7-32L	-.28	-.28	-.30
5-70L	-.09	-.11	-.11	7-44L	-.23	-.23	-.23
5-90L	.03	.03	.03	7-60L	-.16	-.16	-.18
5-95L	.07	.07	.07	7-70L	-.09	-.09	-.09
6-0C	-.68	-.62	-.58	7-90L	.04	.04	.04
6-5U	.30	.28	.27	7-95L	.08	.08	.08
6-14U	.11	.11	.09	8-0C	-.19	-.18	-.13
6-19U	-.01	-.03	-.03	8-1.25U	.51	.51	.50
6-32U	.03	.01	.01	8-2.5U	.35	.35	.34
6-44U	-.01	-.03	-.03	8-5U	.26	.24	.23
6-60U	-.07	-.07	-.08	8-8U	.16	.16	.15
6-70U	-.07	-.07	-.08	8-14U	.08	.07	.05
6-80U	-.01	-.03	-.03	8-19U	-.01	-.01	-.03
6-90U	-.01	-.01	-.01	8-60U	-.01	-.01	-.01
6-100C	.12	.11	.11	8-80U	-.01	-.03	-.03
6-1.25L	-.95	-.92	-.89	8-90U	.01	.01	.01
6-2.5L	-1.00	-.97	-.96	8-95U	-.11	-.11	-.11
6-5L	-.73	-.73	-.72	8-100C	.13	.12	.12



TABLE 10.- CONTINUED

(a) - Continued

ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$	ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$
4-90L	0	0	0	6-8L	-0.54	-0.54	-0.54
4-95L	.05	.04	.04	6-14L	-.46	-.46	-.46
5-0C	-.65	-1.03	-.61	6-19L	-.39	-.41	-.39
5-1.25U	.55	.55	.55	6-38L	-.30	-.30	-.30
5-8U	.22	.20	.20	6-44L	-.27	-.27	-.27
5-14U	.11	.09	.09	6-60L	-.20	-.20	-.20
5-19U	.03	.03	.01	6-70L	-.09	-.09	-.09
5-38U	-.04	-.05	-.05	7-0C	-.18	-.15	-.13
5-44U	-.03	-.04	-.04	7-5U	.24	.24	.23
5-60U	-.08	-.09	-.11	7-8U	.18	.18	.16
5-70U	.05	.05	.05	7-14U	.08	.07	.07
5-80U	-.04	-.05	-.05	7-19U	.04	.04	.03
5-90U	0	0	-.01	7-38U	-.07	-.08	-.08
5-95U	.01	0	0	7-60U	-.08	-.08	-.08
5-1.25L	-1.00	-.99	-.99	7-90U	-.01	-.01	-.01
5-2.5L	-.84	-.82	-.84	7-95U	.04	.04	.04
5-5L	-.76	-.74	-.76	7-1.25L	-.84	-.82	-.81
5-8L	-.57	-.57	-.57	7-2.5L	-.81	-.81	-.80
5-14L	-.46	-.46	-.46	7-5L	-.68	-.68	-.66
5-19L	-.43	-.43	-.45	7-8L	-.54	-.54	-.54
5-38L	-.31	-.31	-.32	7-14L	-.42	-.42	-.42
5-44L	-.27	-.28	-.28	7-19L	-.39	-.39	-.39
5-60L	-.22	-.22	-.23	7-32L	-.28	-.30	-.30
5-70L	-.11	-.11	-.11	7-44L	-.23	-.23	-.23
5-90L	.01	.01	.01	7-60L	-.18	-.18	-.18
5-95L	.05	.05	.05	7-70L	-.09	-.11	-.11
6-0C	-.55	-.51	-.51	7-90L	.04	.03	.03
6-5U	.27	.26	.26	7-95L	.07	.07	.07
6-14U	.08	.08	.07	8-0C	-.11	-.09	-.07
6-19U	-.03	-.03	-.03	8-1.25U	.50	.49	.49
6-32U	0	-.01	-.01	8-2.5U	.34	.32	.32
6-44U	-.03	-.04	-.04	8-5U	.23	.22	.22
6-60U	-.08	-.08	-.08	8-8U	.15	.13	.13
6-70U	-.08	-.08	-.08	8-14U	.05	.05	.05
6-80U	-.03	-.04	-.03	8-19U	-.04	-.04	-.04
6-90U	-.01	-.01	-.01	8-60U	-.01	-.03	-.03
6-100C	.11	.11	.11	8-80U	-.04	-.04	-.04
6-1.25L	-.88	-.87	-.87	8-90U	0	.01	0
6-2.5L	-.95	-.95	-.95	8-95U	-.12	-.12	-.12
6-5L	-.70	-.70	-.70	8-100C	.12	.12	.12

TABLE 10.- CONTINUED

(a) - Continued

ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$	ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$
8-1.25L	-1.10	-1.06	-1.03	11-32U	-0.19	-0.18	-0.18
8-2.5L	-.88	-.85	-.84	12-32U	-.38	-.37	-.36
8-5L	-.71	-.70	-.68	TIP-32C	-.33	-.31	-.30
8-8L	-.59	-.58	-.58	11-32L	-.15	-.15	-.14
8-14L	-.44	-.42	-.42	10-32L	-.16	-.16	-.16
8-19L	-.37	-.37	-.37	10-70U	-.12	-.12	-.11
8-32L	-.26	-.26	-.25	11-70U	-.23	-.22	-.22
8-38L	-.23	-.23	-.23	12-70U	-.41	-.40	-.38
8-44L	-.21	-.21	-.21	TIP-70C	-.03	-.03	-.03
8-60L	-.10	-.10	-.10	12-70L	-.21	-.21	-.19
8-95L	.08	.08	.10	11-70L	-.11	-.10	-.10
9-0C	-.63	-.58	-.53	10-70L	-.04	-.04	-.04
9-1.25U	.55	.53	.53	FIN-1	-.12	-.12	-.12
9-2.5U	.41	.40	.40	FIN-2	-.36	-.37	-.37
9-5U	.26	.26	.26	FIN-3	-.36	-.36	-.37
9-14U	.04	.04	.04	FIN-4	-.29	-.29	-.29
9-19U	0	0	0	FIN-5	-.18	-.18	-.18
9-32U	-.07	-.07	-.07	FIN-6	-.12	-.12	-.12
9-44U	-.07	-.07	-.07	FIN-7	-1.22	-1.25	-1.22
9-70U	-.07	-.07	-.07	FIN-8	-.44	-.45	-.44
9-80U	-.01	-.01	-.01	FIN-9	-.27	-.27	-.27
9-100C	.10	.10	.11	FIN-10	-.19	-.19	-.19
9-1.25L	-1.04	-1.01	-1.00	FIN-11	-.15	-.15	-.15
9-5L	-.58	-.56	-.58	FIN-12	-.12	-.12	-.12
9-8L	-.52	-.52	-.51	FIN-13	-1.06	-1.08	-1.10
9-14L	-.38	-.38	-.38	FIN-14	-.47	-.48	-.47
9-19L	-.31	-.31	-.31	FIN-15	-.18	-.18	-.18
9-32L	-.25	-.25	-.23	FIN-16	-.12	-.12	-.12
9-38L	-.18	-.18	-.18	FIN-17	-.12	-.12	-.11
9-44L	-.14	-.12	-.12	FIN-18	-.12	-.12	-.12
9-70L	-.04	-.04	-.03	FIN-19	-.11	-.11	-.11
9-90L	.05	.05	.05	FIN-20	-.11	-.11	-.11
9-95L	.10	.10	.11	FIN-21	-.16	-.16	-.16
2S-60U	-.10	-.10	-.10	FIN-22	-.11	-.11	-.11
2S-60L	-.14	-.14	-.14	FIN-23	-.08	-.08	-.08
5S-60U	-.10	-.10	-.08	FIN-24	-.03	-.03	-.01
5S-60L	-.12	-.12	-.12	FIN-25	-.22	-.22	-.22
8S-60U	.05	.05	.05	FIN-26	-.15	-.15	-.15
8S-60L	-.11	-.11	-.11	FIN-27	-.11	-.11	-.11
10-32U	-.03	-.03	-.03	FIN-28	-.12	-.12	-.11



TABLE 10.- CONTINUED

(a) - Continued

ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$	ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$
8-1.25L	-0.97	-0.99	-0.93	11-32U	-0.16	-0.18	-0.18
8-2.5L	-.80	-.79	-.77	12-32U	-.34	-.34	-.32
8-5L	-.65	-.67	-.65	TIP-32C	-.28	-.29	-.28
8-8L	-.54	-.56	-.54	11-32L	-.13	-.15	-.15
8-14L	-.41	-.42	-.41	10-32L	-.15	-.16	-.16
8-19L	-.35	-.36	-.35	10-70U	-.11	-.12	-.11
8-32L	-.24	-.26	-.26	11-70U	-.20	-.22	-.20
8-38L	-.22	-.23	-.23	12-70U	-.35	-.37	-.35
8-44L	-.19	-.21	-.20	TIP-70C	-.01	-.03	-.03
8-60L	-.08	-.10	-.09	12-70L	-.16	-.18	-.16
8-95L	.09	.08	.08	11-70L	-.08	-.10	-.09
9-0C	-.47	-.45	-.39	10-70L	-.03	-.04	-.04
9-1.25U	.53	.52	.50	FIN-1	-.11	-.12	-.12
9-2.5U	.39	.38	.36	FIN-2	-.34	-.37	-.36
9-5U	.26	.23	.23	FIN-3	-.34	-.37	-.36
9-14U	.04	.03	.01	FIN-4	-.27	-.29	-.28
9-19U	0	-.01	-.01	FIN-5	-.16	-.18	-.18
9-32U	-.07	-.08	-.08	FIN-6	-.11	-.12	-.12
9-44U	-.05	-.07	-.07	FIN-7	-1.19	-1.29	-1.26
9-70U	-.05	-.07	-.07	FIN-8	-.42	-.45	-.46
9-80U	0	-.01	-.01	FIN-9	-.26	-.27	-.27
9-100C	.11	.10	.09	FIN-10	-.18	-.19	-.19
9-1.25L	-.95	-.96	-.92	FIN-11	-.13	-.15	-.16
9-5L	-.53	-.55	-.53	FIN-12	-.11	-.12	-.12
9-8L	-.49	-.49	-.49	FIN-13	-1.07	-1.15	-1.14
9-14L	-.36	-.38	-.36	FIN-14	-.45	-.48	-.47
9-19L	-.30	-.31	-.31	FIN-15	-.16	-.18	-.18
9-32L	-.23	-.25	-.24	FIN-16	-.11	-.12	-.12
9-38L	-.16	-.18	-.18	FIN-17	-.11	-.12	-.11
9-44L	-.12	-.14	-.13	FIN-18	-.11	-.12	-.12
9-70L	-.03	-.04	-.04	FIN-19	-.09	-.11	-.11
9-90L	.07	.05	.05	FIN-20	-.09	-.11	-.11
9-95L	.11	.10	.09	FIN-21	-.15	-.18	-.16
2S-60U	-.09	-.12	-.12	FIN-22	-.11	-.12	-.12
2S-60L	-.12	-.14	-.13	FIN-23	-.07	-.08	-.09
5S-60U	-.08	-.08	-.08	FIN-24	-.01	-.03	-.03
5S-60L	-.11	-.12	-.13	FIN-25	-.20	-.22	-.20
8S-60U	-.05	-.07	-.07	FIN-26	-.13	-.15	-.15
8S-60L	-.11	-.12	-.12	FIN-27	-.09	-.11	-.11
10-32U	-.01	-.03	-.03	FIN-28	-.11	-.11	-.11

TABLE 10.- CONTINUED

(a) - Continued

ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$	ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$
8-1.25L	-0.91	-0.89	-0.90	11-32U	-0.16	-0.16	-0.16
8-2.5L	-0.76	-0.74	-0.75	12-32U	-.31	-.31	-.30
8-5L	-.64	-.64	-.64	TIP-32C	-.27	-.27	-.14
8-8L	-.54	-.54	-.55	11-32L	-.15	-.15	-.15
8-14L	-.41	-.41	-.41	10-32L	-.16	-.16	-.16
8-19L	-.35	-.35	-.36	10-70U	-.12	-.12	-.12
8-32L	-.26	-.26	-.26	11-70U	-.21	-.20	-.21
8-38L	-.23	-.23	-.23	12-70U	-.34	-.34	-.34
8-44L	-.20	-.20	-.21	TIP-70C	-.03	-.01	-.03
8-60L	-.09	-.09	-.11	12-70L	-.16	-.16	-.16
8-95L	.08	.08	.08	11-70L	-.10	-.09	-.10
9-0C	-.35	-.32	-.31	10-70L	-.04	-.04	-.04
9-1.25U	.51	.50	.49	FIN-1	-.12	-.13	-.14
9-2.5U	.36	.35	.36	FIN-2	-.37	-.39	-.37
9-5U	.22	.22	.21	FIN-3	-.23	-.38	-.38
9-14U	0	0	0	FIN-4	-.29	-.28	-.30
9-19U	-.03	-.03	-.03	FIN-5	-.18	-.19	-.19
9-32U	-.10	-.09	-.10	FIN-6	-.12	-.12	-.12
9-44U	-.07	-.08	-.08	FIN-7	-1.30	-1.43	-1.40
9-70U	-.07	-.07	-.07	FIN-8	-.47	-.49	-.49
9-80U	-.01	-.01	-.03	FIN-9	-.29	-.28	-.29
9-100C	-.09	.11	.10	FIN-10	-.19	-.20	-.19
9-1.25L	-.90	-.89	-.90	FIN-11	-.16	-.16	-.16
9-5L	-.52	-.51	-.51	FIN-12	-.12	-.12	-.12
9-8L	-.49	-.49	-.49	FIN-13	-1.18	-1.24	-1.23
9-14L	-.23	-.36	-.37	FIN-14	-.48	-.58	-.55
9-19L	-.31	-.30	-.31	FIN-15	-.19	-.20	-.19
9-32L	-.25	-.24	-.25	FIN-16	-.12	-.12	-.12
9-38L	-.18	-.18	-.19	FIN-17	-.11	-.12	-.11
9-44L	-.14	-.13	-.14	FIN-18	-.12	-.12	-.12
9-70L	-.04	-.04	-.04	FIN-19	-.11	-.11	-.12
9-90L	.05	.05	.05	FIN-20	-.11	-.11	-.11
9-95L	.10	.09	.09	FIN-21	-.16	-.18	-.18
2S-60U	-.14	-.13	-.14	FIN-22	-.12	-.12	-.12
2S-60L	-.15	-.15	-.15	FIN-23	-.09	-.08	-.10
5S-60U	-.10	-.09	-.10	FIN-24	-.03	-.01	-.03
5S-60L	-.14	-.13	-.14	FIN-25	-.21	-.20	-.21
8S-60U	-.08	-.08	-.10	FIN-26	-.15	-.15	-.15
8S-60L	-.12	-.12	-.12	FIN-27	-.11	-.11	-.11
10-32U	-.03	-.01	-.03	FIN-28	-.11	-.11	-.12



TABLE 10 - Continued

(a) - Continued

ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$	ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$
8-1.25L	-0.85	-0.84	-0.81	11-32U	-0.16	-0.16	-0.16
8-2.5L	-.72	-.70	-.69	12-32U	-.30	-.28	-.28
8-5L	-.61	-.61	-.59	TIP-32C	-.12	-.74	-.23
8-8L	-.53	-.51	-.51	11-32L	-.13	-.13	-.15
8-14L	-.41	-.39	-.39	10-32L	-.16	-.16	-.16
8-19L	-.35	-.35	-.35	10-70U	-.11	-.11	-.12
8-32L	-.26	-.24	-.26	11-70U	-.19	-.19	-.19
8-38L	-.23	-.23	-.23	12-70U	-.31	-.31	-.30
8-44L	-.20	-.20	-.22	TIP-70C	-.03	-.01	-.01
8-60L	-.11	-.11	-.11	12-70L	-.15	-.15	-.15
8-95L	.08	.08	.08	11-70L	-.09	-.09	-.08
9-0C	-.26	-.23	-.19	10-70L	-.04	-.04	-.04
9-1.25U	.49	.49	.47	FIN-1	-.12	-.12	-.13
9-2.5U	.34	.34	.32	FIN-2	-.38	-.41	-.39
9-5U	.19	.19	.19	FIN-3	-.36	-.41	-.39
9-14U	0	0	-.01	FIN-4	-.28	-.30	-.30
9-19U	-.04	-.04	-.05	FIN-5	-.18	-.19	-.19
9-32U	-.09	-.09	-.11	FIN-6	-.12	-.12	-.12
9-44U	-.08	-.08	-.08	FIN-7	-1.43	-1.53	-1.51
9-70U	-.07	-.07	-.07	FIN-8	-.49	-.51	-.51
9-80U	-.01	-.01	-.03	FIN-9	-.28	-.30	-.30
9-100C	.09	.11	.09	FIN-10	-.19	-.20	-.20
9-1.25L	-.84	-.82	-.81	FIN-11	-.16	-.16	-.16
9-5L	-.49	-.49	-.49	FIN-12	-.12	-.12	-.13
9-8L	-.47	-.47	-.46	FIN-13	-1.27	-1.35	-1.35
9-14L	-.35	-.34	-.35	FIN-14	-.59	-.66	-.62
9-19L	-.30	-.30	-.30	FIN-15	-.19	-.20	-.20
9-32L	-.24	-.24	-.24	FIN-16	-.12	-.12	-.13
9-38L	-.18	-.18	-.19	FIN-17	-.11	-.12	-.12
9-44L	-.13	-.13	-.13	FIN-18	-.12	-.13	-.13
9-70L	-.04	-.04	-.04	FIN-19	-.12	-.12	-.12
9-90L	.05	.05	.05	FIN-20	-.11	-.11	-.11
9-95L	.09	.09	.09	FIN-21	-.18	-.18	-.18
28-60U	-.42	-.15	-.16	FIN-22	-.12	-.13	-.13
28-60L	-.42	-.15	-.16	FIN-23	-.09	-.09	-.09
58-60U	-.09	-.11	-.11	FIN-24	-.03	-.01	-.03
58-60L	-.41	-.13	-.13	FIN-25	-.20	-.22	-.22
88-60U	-.09	-.09	-.09	FIN-26	-.15	-.16	-.16
88-60L	-.39	-.13	-.13	FIN-27	-.11	-.11	-.12
10-32U	-.01	-.01	-.01	FIN-28	-.12	-.12	-.12

TABLE 10.- CONTINUED

(a) - Concluded

ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$	ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$
8-1.25L	-0.81	-0.78	-0.78	11-32U	-0.16	-0.16	-0.16
8-2.5L	-.70	-.68	-.68	12-32U	-.29	-.28	-.42
8-5L	-.60	-.59	-.59	TIP-32C	-.23	-.23	-.23
8-8L	-.52	-.51	-.51	11-32L	-.15	-.15	-.15
8-14L	-.40	-.39	-.40	10-32L	-.18	-.16	-.18
8-19L	-.36	-.34	-.36	10-70U	-.12	-.12	-.12
8-32L	-.26	-.26	-.26	11-70U	-.19	-.19	-.18
8-38L	-.23	-.23	-.23	12-70U	-.30	-.26	-.30
8-44L	-.22	-.22	-.22	TIP-70C	-.03	-.01	-.03
8-60L	-.12	-.12	-.12	12-70L	-.15	-.15	-.15
8-95L	.07	.07	.07	11-70L	-.08	-.08	-.10
9-0C	-.18	-.16	-.15	10-70L	-.04	-.04	-.05
9-1.25U	.47	.46	.47	FIN-1	-.14	-.13	-.14
9-2.5U	.33	.31	.31	FIN-2	-.38	-.41	-.40
9-5U	.18	.18	.18	FIN-3	-.38	-.41	-.41
9-14U	-.01	-.01	-.01	FIN-4	-.30	-.30	-.30
9-19U	-.05	-.05	-.07	FIN-5	-.19	-.19	-.19
9-32U	-.11	-.11	-.11	FIN-6	-.14	-.12	-.12
9-44U	-.10	-.09	-.10	FIN-7	-1.51	-1.55	-1.56
9-70U	-.07	-.07	-.07	FIN-8	-.51	-.51	-.52
9-80U	-.03	-.03	-.03	FIN-9	-.30	-.30	-.30
9-100C	.10	.09	.10	FIN-10	-.21	-.20	-.21
9-1.25L	-.81	-.80	-.78	FIN-11	-.16	-.18	-.18
9-5L	-.49	-.47	-.48	FIN-12	-.14	-.13	-.14
9-8L	-.47	-.46	-.47	FIN-13	-1.37	-1.41	-1.42
9-14L	-.36	-.35	-.36	FIN-14	-.63	-.68	-.66
9-19L	-.16	-.30	-.30	FIN-15	-.21	-.20	-.21
9-32L	-.25	-.24	-.25	FIN-16	-.14	-.13	-.14
9-38L	-.19	-.19	-.19	FIN-17	-.12	-.12	-.12
9-44L	-.14	.27	-.14	FIN-18	-.14	-.15	-.14
9-70L	-.05	-.05	-.05	FIN-19	-.12	-.12	-.14
9-90L	.04	.05	.05	FIN-20	-.12	-.11	-.40
9-95L	.10	.09	.10	FIN-21	-.18	-.19	-.19
2S-60U	-.18	-.18	-.19	FIN-22	-.14	-.13	-.14
2S-60L	-.18	-.18	-.18	FIN-23	-.11	-.11	-.11
5S-60U	-.11	-.12	-.12	FIN-24	-.01	-.01	-.03
5S-60L	-.15	-.15	-.15	FIN-25	-.22	-.22	-.23
8S-60U	-.11	-.11	-.11	FIN-26	-.16	-.16	-.18
8S-60L	-.14	-.13	-.15	FIN-27	-.12	-.12	-.14
10-32U	-.03	-.01	-.03	FIN-28	-.12	-.12	-.14



TABLE 10.- CONTINUED

(b)  $\alpha, 12^\circ$

ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$	ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$
1-0C	0.64	0.64	0.62	3-1.25U	-0.29	-0.31	-0.34
1-1.25U	-.41	-.42	-.44	3-3U	-.29	-.29	-.31
1-2.5U	-.34	-.36	-.37	3-14U	-.27	-.29	-.29
1-5U	-.31	-.31	-.33	3-19U	-.27	-.29	-.29
1-8U	-.29	-.30	-.31	3-32U	-.22	-.22	-.23
1-14U	-.22	-.23	-.25	3-60U	-.16	-.16	-.18
1-19U	-.26	-.27	-.29	3-70U	-.19	-.19	-.19
1-32U	-.22	-.23	-.25	3-95U	.03	.03	.01
1-70U	-.16	-.16	-.16	3-1.25L	.31	.33	.34
1-80U	-.08	-.08	-.10	3-2.5L	.14	.15	.16
1-90U	-.03	-.03	-.04	3-5L	-.01	0	.01
1-95U	.03	.03	.03	3-8L	-.03	-.01	0
1-2.5L	.23	.23	.25	3-14L	-.08	-.07	-.07
1-5L	.10	.11	.11	3-32L	-.11	-.10	-.10
1-14L	.01	.03	.03	3-38L	-.12	-.12	-.12
1-19L	-.01	-.01	-.01	3-60L	-.12	-.12	-.11
1-32L	.01	.01	.01	3-80L	-.03	-.03	-.03
1-38L	-.05	-.05	-.05	3-95L	.07	.07	.07
1-60L	-.10	-.10	-.10	4-0C	.59	.47	.59
1-70L	-.08	-.08	-.08	4-1.25U	.18	.16	.12
1-80L	-.04	-.04	.10	4-2.5U	.10	.08	.05
2-1.25U	-.81	-.79	-.75	4-14U	-.11	-.12	-.15
2-2.5U	-.75	-.78	-.79	4-19U	-.11	-.11	-.12
2-5U	-.59	-.60	-.62	4-32U	-.11	-.12	-.14
2-32U	-.23	-.25	-.26	4-38U	-.14	-.15	-.15
2-38U	-.30	-.20	-.31	4-60U	-.16	-.16	-.18
2-44U	-.19	-.19	-.21	4-70U	-.01	-.01	-.01
2-70U	-.11	-.11	-.12	4-90U	.01	.01	0
2-80U	-.04	-.05	-.05	4-95U	.05	.05	.05
2-95U	.07	.07	.07	4-100C	.16	.15	.15
2-100C	.07	.07	.07	4-2.5L	-.12	.11	-.08
2-1.25L	.56	.70	.56	4-5L	-.15	-.15	-.12
2-2.5L	.37	.37	.37	4-8L	-.11	-.11	-.10
2-5L	.18	.18	.19	4-14L	.19	.19	.18
2-14L	.01	.03	.03	4-19L	-.16	-.16	-.16
2-32L	-.07	-.07	-.05	4-32L	-.11	-.11	-.11
2-38L	-.10	-.08	-.08	4-38L	-.15	-.15	-.15
2-44L	-.10	-.10	.10	4-44L	.14	.14	.14
2-70L	0	0	0	4-60L	-.11	-.10	-.11
2-95L	.04	.04	.04	4-80L	-.01	0	-.01

TABLE 10.- CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$	ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$
1-0C	0.47	0.60	0.60	3-1.25U	-0.35	-0.36	-0.44
1-1.25U	.46	.49	.49	3-8U	.31	.31	.36
1-2.5U	-.38	-.41	-.42	3-14U	-.30	-.31	-.33
1-5U	-.35	-.37	-.37	3-19U	-.30	-.31	-.33
1-8U	-.32	-.34	-.36	3-32U	-.23	-.25	-.26
1-14U	-.26	-.27	-.29	3-60U	-.18	-.18	-.19
1-19U	-.30	-.31	-.33	3-70U	-.20	-.21	-.22
1-32U	-.26	-.27	-.29	3-95U	.01	.01	.01
1-70U	-.16	-.18	-.18	3-1.25L	.34	.34	.38
1-80U	-.09	-.11	-.11	3-2.5L	.16	.16	.19
1-90U	-.04	-.05	-.05	3-5L	.01	0	.04
1-95U	.03	.01	0	3-8L	0	-.01	.01
1-2.5L	.24	.26	.25	3-14L	-.07	-.07	-.05
1-5L	.11	.12	.12	3-32L	-.09	-.10	-.10
1-14L	.03	.03	.03	3-38L	-.12	-.12	-.12
1-19L	-.01	-.01	0	3-60L	-.12	-.12	-.12
1-32L	.01	.01	.03	3-80L	-.03	-.03	-.03
1-38L	-.04	-.05	-.04	3-95L	.07	.07	.07
1-60L	-.09	-.10	-.10	4-0C	.58	.60	.59
1-70L	-.08	-.08	-.08	4-1.25U	.11	.10	.04
1-80L	-.04	-.05	-.05	4-2.5U	.03	.03	-.03
2-1.25U	-.70	-.66	-.55	4-14U	-.16	-.16	-.21
2-2.5U	-.81	-.85	-.88	4-19U	-.15	-.15	-.16
2-5U	-.62	-.64	-.67	4-32U	-.15	-.15	-.16
2-32U	-.27	-.29	-.30	4-38U	-.15	-.18	-.18
2-38U	-.34	-.36	-.37	4-60U	-.19	-.19	-.21
2-44U	-.20	-.21	-.22	4-70U	-.03	-.03	-.04
2-70U	-.13	-.15	-.16	4-90U	0	0	0
2-80U	-.05	-.07	-.08	4-95U	.05	.05	.05
2-95U	.07	.05	.05	4-100C	.15	.15	.15
2-100C	.07	.05	.05	4-2.5L	-.07	-.08	-.04
2-1.25L	.57	.60	.59	4-5L	-.11	-.11	-.08
2-2.5L	.38	.38	.40	4-8L	-.09	-.10	-.07
2-5L	.19	.22	.21	4-14L	-.18	-.18	-.16
2-14L	.03	.03	.03	4-19L	-.16	-.16	-.15
2-32L	-.07	-.07	-.05	4-32L	-.09	-.11	-.10
2-38L	-.08	-.10	-.08	4-38L	-.15	-.15	-.15
2-44L	-.09	-.10	-.10	4-44L	-.12	-.12	-.12
2-70L	0	0	0	4-60L	-.09	-.11	-.10
2-95L	.04	.03	.03	4-80L	0	-.01	-.01



TABLE 10.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$	ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$
1-0C	0.58	0.58	0.56	3-1.25U	-0.40	-0.42	-0.49
1-1.25U	-.53	-.55	-.58	3-8U	-.34	-.37	-.40
1-2.5U	-.44	-.45	-.51	3-14U	-.33	-.34	-.37
1-5U	-.38	-.41	-.42	3-19U	-.31	-.34	-.36
1-8U	-.37	-.25	-.40	3-32U	-.26	-.27	-.29
1-14U	-.29	-.30	-.31	3-60U	-.19	-.21	-.22
1-19U	-.34	-.36	-.37	3-70U	-.22	-.22	-.23
1-32U	-.30	-.31	-.34	3-95U	.02	.01	.01
1-70U	-.19	-.19	-.21	3-1.25L	.36	.37	.40
1-80U	-.12	-.14	-.15	3-2.5L	.16	.19	.21
1-90U	-.07	-.08	-.10	3-5L	.01	.03	.05
1-95U	0	-.01	-.03	3-8L	0	0	.03
1-2.5L	.26	.26	.27	3-14L	-.05	-.05	-.04
1-5L	.12	.12	.14	3-32L	-.10	-.10	-.10
1-14L	.03	.03	.04	3-38L	-.12	-.12	-.11
1-19L	-.01	.01	0	3-60L	-.12	-.12	-.11
1-32L	.01	-.01	.01	3-80L	-.03	-.03	-.03
1-38L	-.05	-.05	-.04	3-95L	.07	.07	.05
1-60L	-.10	-.10	-.10	4-0C	.59	.59	.59
1-70L	-.08	-.10	-.10	4-1.25U	.03	.01	-.04
1-80L	-.05	-.05	-.07	4-2.5U	-.03	-.05	-.10
2-1.25U	-.42	-.84	-.01	4-14U	-.22	-.25	-.29
2-2.5U	-.88	-.92	-.90	4-19U	-.18	-.19	-.21
2-5U	-.68	-.70	-.95	4-32U	-.18	-.18	-.21
2-32U	-.31	-.33	-.36	4-38U	-.19	-.16	-.19
2-38U	-.37	-.38	-.41	4-60U	-.21	-.22	-.23
2-44U	-.22	-.19	-.22	4-70U	-.04	-.04	-.05
2-70U	-.16	-.18	-.21	4-90U	-.01	0	-.01
2-80U	-.08	-.08	-.10	4-95U	.04	.05	.04
2-95U	.05	.05	.04	4-100C	.15	.15	.15
2-100C	.04	.04	.04	4-2.5L	-.04	-.03	0
2-1.25L	.59	.60	.60	4-5L	-.08	-.08	-.05
2-2.5L	.38	.40	.41	4-8L	-.07	-.07	-.04
2-5L	.21	.22	.22	4-14L	-.16	-.15	-.15
2-14L	.03	.03	.04	4-19L	-.15	-.15	-.14
2-32L	-.05	-.05	-.05	4-32L	-.10	-.10	-.10
2-38L	-.08	-.08	-.08	4-38L	-.15	-.14	-.14
2-44L	-.16	-.10	-.10	4-44L	-.12	-.12	-.12
2-70L	0	0	0	4-60L	-.10	-.10	-.10
2-95L	.03	.03	.01	4-80L	-.01	-.01	-.01

TABLE 10.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$
1-0C	0.55	0.53	0.53	3-1.25U	-0.55	-0.58	-0.63
1-1.25U	-.58	-.60	-.62	3-8U	-.42	-.44	-.47
1-2.5U	-.49	-.51	-.52	3-14U	-.38	-.40	-.42
1-5U	-.42	-.44	-.45	3-19U	-.38	-.40	-.41
1-8U	-.41	-.42	-.42	3-32U	-.30	-.31	-.33
1-14J	-.34	-.36	-.36	3-60U	-.22	-.23	-.25
1-19U	-.38	-.40	-.42	3-70U	-.25	-.25	-.26
1-32U	-.36	-.23	-.38	3-95U	.01	0	0
1-70U	-.22	-.23	-.25	3-1.25L	.42	.42	.44
1-80U	-.16	-.18	-.19	3-2.5L	.22	.23	.25
1-90U	-.11	-.12	-.14	3-5L	.05	.07	.08
1-95U	-.04	-.05	-.07	3-8L	.03	.04	.05
1-2.5L	.27	.27	.26	3-14L	-.04	-.03	-.03
1-5L	.14	.14	.14	3-32L	-.08	-.08	-.08
1-14L	.04	.04	.03	3-38L	-.11	-.11	-.11
1-19L	0	0	0	3-60L	-.12	-.11	-.12
1-32L	.03	.03	.03	3-80L	-.03	-.03	-.03
1-38L	-.05	-.05	-.04	3-95L	.05	.05	.05
1-60L	-.10	-.10	-.11	4-0C	.60	.60	.60
1-70L	-.10	-.10	-.11	4-1.25U	.05	.10	.12
1-80L	-.07	-.07	-.08	4-2.5U	.11	.15	.18
2-1.25U	-.95	-1.00	-1.03	4-14U	-.30	-.33	-.34
2-2.5U	-.97	-.99	-1.00	4-19U	-.22	-.23	-.25
2-5U	-.75	-.78	-.66	4-32U	-.21	-.22	-.23
2-32U	-.37	-.38	-.40	4-38U	-.21	-.22	-.23
2-38U	-.42	-.44	-.47	4-60U	-.23	-.25	-.25
2-44U	-.23	-.25	-.26	4-70U	-.05	-.07	-.07
2-70U	-.22	-.23	-.25	4-90U	-.01	-.01	-.01
2-80U	-.11	-.11	-.12	4-95U	.04	.04	.03
2-95U	.04	.03	.03	4-100C	.14	.14	.14
2-100C	.03	.03	.01	4-2.5L	.15	.04	.05
2-1.25L	.62	.62	.62	4-5L	-.04	.04	.03
2-2.5L	.41	.42	.42	4-8L	-.04	-.03	-.03
2-5L	.23	.23	.23	4-14L	-.14	-.14	-.12
2-14L	.04	.04	.04	4-19L	-.14	-.12	-.12
2-32L	-.05	-.05	-.05	4-32L	-.10	-.08	-.08
2-38L	-.08	-.08	-.08	4-38L	-.14	-.14	-.14
2-44L	-.08	-.10	-.10	4-44L	-.12	-.12	-.12
2-70L	0	0	0	4-60L	-.10	-.10	-.10
2-95L	.01	.01	0	4-80L	-.01	-.01	-.01



TABLE 10.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$	ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$
1-0C	0.52	0.52	0.49	3-1.25U	-0.66	-0.62	-0.63
1-1.25U	-.63	-.66	-.70	3-8U	.07	-.47	-.48
1-2.5U	-.52	-.55	-.58	3-14U	-.44	-.44	-.44
1-5U	-.47	-.48	-.49	3-19U	-.42	-.42	-.42
1-8U	-.44	-.45	-.47	3-32U	-.34	-.34	-.36
1-14J	-.37	-.38	-.40	3-60U	-.26	-.26	-.27
1-19U	-.42	-.44	-.45	3-70U	-.26	-.26	-.27
1-32U	-.40	-.41	-.44	3-95U	0	0	0
1-70U	-.26	.26	.27	3-1.25L	.45	.44	.44
1-80U	-.21	-.22	-.23	3-2.5L	.26	.25	.25
1-90U	.15	.16	.16	3-5L	.10	.08	.07
1-95U	-.08	-.10	-.11	3-8L	.05	.04	.04
1-2.5L	.27	.27	.29	3-14L	-.03	-.03	-.03
1-5L	.14	.14	.15	3-32L	-.08	-.08	-.08
1-14L	.04	.04	.04	3-38L	-.11	-.11	-.11
1-19L	0	0	0	3-60L	-.12	-.12	-.12
1-32L	.03	.01	.01	3-80L	-.04	-.04	-.04
1-38L	-.05	-.05	-.05	3-95L	.05	.05	.05
1-60L	-.11	-.11	-.11	4-0C	.60	.60	.59
1-70L	-.11	-.11	-.11	4-1.25U	.15	.16	.18
1-80L	-.08	-.08	-.08	4-2.5U	.19	.22	.22
2-1.25U	-1.07	-1.11	-1.14	4-14U	-.36	-.37	-.37
2-2.5U	-1.03	-1.04	-1.07	4-19U	-.26	-.27	-.29
2-5U	-.82	-.82	-.85	4-32U	-.23	-.26	-.26
2-32U	-.41	-.42	-.44	4-38U	-.23	-.25	-.26
2-38U	-.48	-.49	-.51	4-60U	-.26	-.27	-.27
2-44U	-.27	-.29	-.30	4-70U	-.07	-.08	-.08
2-70U	-.26	-.27	-.29	4-90U	-.03	-.03	-.03
2-80U	-.14	-.15	-.15	4-95U	.04	.04	.03
2-95U	.03	.01	.01	4-100C	.14	.14	.14
2-100C	.01	.01	0	4-2.5L	.05	.07	.07
2-1.25L	.63	.62	.63	4-5L	-.03	-.01	-.03
2-2.5L	.41	.42	.44	4-8L	-.03	-.01	-.01
2-5L	.25	.23	.25	4-14L	-.12	-.12	-.12
2-14L	.05	.04	.04	4-19L	-.12	-.12	-.12
2-32L	-.05	-.05	-.07	4-32L	-.08	-.08	-.08
2-38L	-.08	-.08	-.08	4-38L	-.14	-.14	-.14
2-44L	-.10	-.10	-.10	4-44L	-.12	-.12	-.12
2-70L	0	0	-.01	4-60L	-.10	-.10	-.10
2-95L	0	0	-.01	4-80L	-.01	-.01	-.01

TABLE 10.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$	ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$
4-90L	0.05	0.05	0.05	6-8L	-0.08	-0.07	-0.05
4-95L	.09	.08	.08	6-14L	-.12	-.12	-.11
5-0C	.53	.54	.55	6-19L	-.12	-.11	-.11
5-1.25U	.13	.12	.08	6-38L	-.12	-.12	-.12
5-8U	-.04	-.05	-.07	6-44L	-.12	-.12	-.12
5-14U	-.08	-.09	-.11	6-60L	-.11	-.11	-.11
5-19U	-.12	-.13	-.15	6-70L	-.01	-.01	-.01
5-38U	-.11	-.11	-.12	7-0C	.55	.55	.55
5-44U	-.07	-.08	-.08	7-5U	-.11	-.12	-.13
5-60U	-.11	-.11	-.12	7-8U	-.09	-.11	-.12
5-70U	-.03	-.04	-.04	7-14U	-.12	-.12	-.13
5-80U	-.04	-.04	-.04	7-19U	-.12	-.12	-.13
5-90U	.01	.01	-.01	7-38U	-.12	-.13	-.13
5-95U	.04	.04	.04	7-60U	-.08	-.09	-.09
5-1.25L	-.07	-.05	-.03	7-90U	.01	.01	.01
5-2.5L	-.11	-.09	-.07	7-95U	.07	.07	.07
5-5L	-.18	-.18	-.15	7-1.25L	.05	.07	.08
5-8L	-.12	-.11	-.09	7-2.5L	-.05	-.04	-.03
5-14L	-.12	-.12	-.11	7-5L	-.11	-.09	-.09
5-19L	-.15	-.15	-.13	7-8L	-.12	-.11	-.11
5-38L	-.13	-.13	-.13	7-14L	-.13	-.12	-.12
5-44L	-.12	-.12	-.12	7-19L	-.13	-.13	-.13
5-60L	-.12	-.12	-.12	7-32L	-.12	-.12	-.12
5-70L	-.01	-.01	-.01	7-44L	-.11	-.11	-.11
5-90L	.05	.05	.05	7-60L	-.09	-.09	-.09
5-95L	.08	-.08	.08	7-70L	-.08	-.05	-.05
6-0C	.51	.51	.51	7-90L	.04	.05	.05
6-5U	-.08	-.09	-.11	7-95L	.08	.08	.08
6-14U	-.11	-.12	-.13	8-0C	.53	.54	.53
6-19U	0	0	0	8-1.25U	-.03	-.05	-.05
6-32U	-.12	-.12	-.12	8-2.5U	-.13	-.15	-.16
6-44U	-.11	-.11	-.12	8-5U	-.12	-.13	-.13
6-60U	-.09	-.09	-.09	8-8U	-.12	-.13	-.13
6-70U	-.08	-.08	-.09	8-14U	-.12	-.13	-.13
6-80U	-.03	-.03	-.03	8-19U	-.12	-.13	-.13
6-90U	.03	.01	.03	8-60U	-.01	-.03	-.03
6-100C	.13	.13	.13	8-80U	-.01	-.01	0
6-1.25L	.01	.03	.05	8-90U	.04	.04	.03
6-2.5L	-.11	-.09	-.08	8-95U	.05	-.07	-.05
6-5L	-.12	-.12	-.11	8-100C	.15	.15	.15



TABLE 10.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$	ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$
4-90L	0.05	0.05	0.04	6-8L	-0.05	-0.05	-0.04
4-95L	.08	.08	.08	6-14L	-.11	-.11	-.09
5-0C	.55	.55	.57	6-19L	-.11	-.11	-.09
5-1.25U	.07	.04	-.01	6-38L	-.12	-.12	-.12
5-8U	-.08	-.09	-.11	6-44L	-.12	-.12	-.12
5-14U	-.12	-.12	-.15	6-60L	-.11	-.11	-.11
5-19U	-.16	-.16	-.19	6-70L	-.01	-.01	-.01
5-38U	-.12	-.13	-.15	7-0C	.54	.54	.53
5-44U	-.09	-.09	-.11	7-5U	-.15	-.16	-.18
5-60U	-.12	-.12	-.13	7-8U	-.13	-.13	-.16
5-70U	-.04	-.08	-.05	7-14U	-.15	-.15	-.16
5-80U	-.04	-.08	-.05	7-19U	-.13	-.15	-.16
5-90U	.01	.01	.01	7-38U	-.15	-.15	-.16
5-95U	.04	.04	.03	7-60U	-.09	-.11	-.11
5-1.25L	0	0	.03	7-90U	.01	.01	.01
5-2.5L	-.05	-.05	-.03	7-95U	.07	.07	.07
5-5L	-.13	-.13	-.12	7-1.25L	.09	.11	.12
5-8L	-.09	-.09	-.08	7-2.5L	-.01	0	.01
5-14L	-.09	-.09	-.09	7-5L	-.08	-.07	-.05
5-19L	-.13	-.13	-.12	7-8L	-.09	-.09	-.09
5-38L	-.12	-.12	-.12	7-14L	-.12	-.12	-.12
5-44L	-.11	-.11	-.11	7-19L	-.12	-.12	-.12
5-60L	-.12	-.12	-.12	7-32L	-.12	-.12	-.12
5-70L	-.01	-.01	-.03	7-44L	-.11	-.11	-.11
5-90L	.05	.04	.04	7-60L	-.09	-.09	-.09
5-95L	.08	.08	.08	7-70L	-.05	-.05	-.05
6-0C	.54	.53	.53	7-90L	.04	.04	.04
6-5U	-.12	-.13	-.16	7-95L	.08	.08	.08
6-14U	-.15	-.16	-.16	8-0C	.51	.51	.50
6-19U	0	0	0	8-1.25U	-.09	-.09	-.12
6-32U	-.13	-.13	-.12	8-2.5U	-.18	-.19	-.22
6-44U	-.12	-.12	-.12	8-5U	-.16	-.16	-.19
6-60U	-.11	-.11	-.12	8-8U	-.15	-.16	-.18
6-70U	-.09	-.09	-.11	8-14U	-.15	-.15	-.16
6-80U	-.04	-.04	-.04	8-19U	-.15	-.15	-.16
6-90U	.03	.03	.03	8-60U	-.03	-.03	-.04
6-100C	.13	.13	.13	8-80U	-.01	-.01	-.01
6-1.25L	.07	.08	.11	8-90U	.03	.03	.03
6-2.5L	-.07	-.05	-.04	8-95U	-.07	-.07	-.07
6-5L	-.09	-.09	-.07	8-100C	.13	.13	.13

TABLE 10.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$	ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$
4-90L	0.04	0.04	0.04	6-8L	-0.04	-0.04	-0.03
4-95L	.08	.07	.07	6-14L	-.10	-.10	-.08
5-0C	.58	.53	.58	6-19L	-.10	-.10	-.08
5-1.25U	-.01	-.04	-.07	6-38L	-.12	-.12	-.12
5-8U	-.12	-.14	-.16	6-44L	-.12	-.12	-.12
5-14U	-.15	-.16	-.18	6-60L	-.11	-.12	-.12
5-19U	-.19	-.21	-.22	6-70L	-.01	-.01	-.01
5-38U	-.15	-.16	-.18	7-0C	.52	.51	.51
5-44U	-.12	-.14	-.14	7-5U	-.19	-.21	-.23
5-60U	-.14	-.15	-.15	7-8U	-.18	-.18	-.19
5-70U	-.07	-.07	-.07	7-14U	-.18	-.16	-.19
5-80U	-.05	-.07	-.07	7-19U	-.18	-.18	-.19
5-90U	.01	0	0	7-38U	-.16	-.18	-.19
5-95U	.03	.03	.03	7-60U	-.11	-.12	-.12
5-1.25L	.04	.07	.08	7-90U	0	0	0
5-2.5L	-.01	0	.01	7-95U	.07	.05	.05
5-5L	-.11	-.11	-.10	7-1.25L	.14	.15	.18
5-8L	-.08	-.03	-.07	7-2.5L	.01	.01	.04
5-14L	-.10	-.10	-.08	7-5L	-.05	-.05	-.04
5-19L	-.12	-.14	-.12	7-8L	-.08	-.08	-.07
5-38L	-.12	-.12	-.12	7-14L	-.11	-.12	-.11
5-44L	-.11	-.11	-.11	7-19L	-.12	-.12	-.12
5-60L	-.12	-.12	-.12	7-32L	-.12	-.12	-.12
5-70L	-.03	-.03	-.03	7-44L	-.11	-.11	-.11
5-90L	.04	.04	.04	7-60L	-.10	-.10	-.10
5-95L	.08	.07	.07	7-70L	-.05	-.05	-.05
6-0C	.53	.53	.53	7-90L	.04	.04	.04
6-5U	-.18	-.19	-.21	7-95L	.08	.07	.08
6-14U	-.18	-.18	-.21	8-0C	.49	.49	.48
6-19U	0	0	0	8-1.25U	-.15	-.16	-.19
6-32U	-.12	-.14	-.15	8-2.5U	-.23	-.25	-.27
6-44U	-.12	-.12	-.14	8-5U	-.19	-.21	-.23
6-60U	-.12	-.14	-.14	8-8U	-.19	-.21	-.21
6-70U	-.11	-.11	-.12	8-14U	-.18	-.18	-.19
6-80U	-.04	-.05	-.05	8-19U	-.16	-.18	-.18
6-90U	.01	.01	.03	8-60U	-.04	-.03	-.03
6-100C	.14	.12	.12	8-80U	-.01	-.03	-.03
6-1.25L	.12	.14	.15	8-90U	.03	.03	.03
6-2.5L	-.04	-.03	0	8-95U	-.07	-.07	-.07
6-5L	-.07	-.07	-.05	8-100C	.14	.14	.14

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TABLE 10.- CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$	ORIFICE	$\delta_e = 4$	$\delta_e = 8$	$\delta_e = 12$
4-90L	0.04	0.04	0.04	6-8L	-0.03	-0.01	-0.01
4-95L	.07	.07	.07	6-14L	-.08	-.07	-.07
5-0C	.58	.55	.55	6-19L	-.08	-.07	-.07
5-1.25U	-.10	-.13	-.15	6-38L	-.12	-.11	-.11
5-8U	-.18	-.19	-.20	6-44L	-.12	-.12	-.12
5-14U	-.19	-.20	-.22	6-60L	-.11	-.11	-.11
5-19U	-.23	-.24	-.24	6-70L	-.01	-.01	-.01
5-38U	-.13	-.19	-.19	7-0C	.49	.47	.46
5-44U	-.14	-.15	-.15	7-5U	-.23	-.26	-.27
5-60U	-.16	-.16	-.16	7-8U	-.21	-.22	-.22
5-70U	-.08	-.08	-.08	7-14U	-.19	-.20	-.20
5-80U	-.07	-.07	-.07	7-19U	-.19	-.20	-.20
5-90U	0	0	0	7-38U	-.19	-.20	-.20
5-95U	.03	.03	.03	7-60U	-.12	-.13	-.13
5-1.25L	.10	.13	.15	7-90U	0	0	0
5-2.5L	.03	.05	.07	7-95U	.05	.05	.05
5-5L	-.08	-.07	-.05	7-1.25L	.18	.20	.22
5-8L	-.07	-.05	-.05	7-2.5L	.04	.07	.08
5-14L	-.07	-.07	-.05	7-5L	-.03	-.01	0
5-19L	-.12	-.11	-.11	7-8L	-.07	-.05	-.04
5-38L	-.12	-.11	-.11	7-14L	-.10	-.09	-.09
5-44L	-.11	-.11	-.09	7-19L	-.11	-.11	-.11
5-60L	-.12	-.12	-.12	7-32L	-.11	-.11	-.11
5-70L	-.01	-.01	-.01	7-44L	-.10	-.09	-.09
5-90L	.04	.04	.04	7-60L	-.10	-.09	-.08
5-95L	.07	.07	.07	7-70L	.05	.05	.05
6-0C	.53	.53	.51	7-90L	.04	.04	.04
6-5U	-.22	-.24	-.26	7-95L	.08	.08	.08
6-14U	-.21	-.22	-.22	8-0C	.47	.45	.45
6-19U	0	0	0	8-1.25U	-.21	-.23	-.24
6-32U	-.15	-.16	-.18	8-2.5U	-.27	-.30	-.31
6-44U	-.14	-.15	-.15	8-5U	-.23	-.24	-.26
6-60U	-.14	-.13	-.13	8-8U	-.22	-.23	-.23
6-70U	-.12	-.12	-.12	8-14U	-.19	-.20	-.20
6-80U	-.05	-.05	-.05	8-19U	-.18	-.19	-.19
6-90U	.03	.03	.03	8-60U	-.03	-.03	-.03
6-100C	.12	.12	.12	8-80U	-.03	-.03	-.03
6-1.25L	.16	.19	.20	8-90U	.03	.03	.03
6-2.5L	0	.03	.03	8-95U	.07	.07	.07
6-5L	-.04	-.03	-.01	8-100C	.14	.13	.13

(b) - Continued

ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$	ORIFICE	$\delta_e = 16$	$\delta_e = 20$	$\delta_e = 24$
4-90L	0.04	0.04	0.04	6-8L	0	0	0
4-95L	.07	.07	.07	6-14L	-.07	-.07	-.07
5-0C	.56	.55	.54	6-19L	-.07	-.07	-.07
5-1.25U	-.16	-.19	-.22	6-38L	-.11	-.11	-.11
5-8U	-.21	-.22	-.23	6-44L	-.12	-.11	-.11
5-14U	-.22	-.23	-.24	6-60L	-.11	-.11	-.11
5-19U	-.26	-.26	-.27	6-70L	0	0	0
5-38U	-.19	-.20	-.20	7-0C	.47	.45	.43
5-44U	-.16	-.16	-.18	7-5U	-.27	-.28	-.28
5-60U	-.18	-.18	-.18	7-8U	-.23	-.23	-.23
5-70U	-.08	-.08	-.09	7-14U	-.21	-.20	-.20
5-80U	-.07	-.08	-.08	7-19U	-.21	-.20	-.20
5-90U	0	0	-.01	7-38U	-.21	-.20	-.20
5-95U	.03	.03	.03	7-60U	-.14	-.13	-.13
5-1.25L	.15	.16	.18	7-90U	0	0	0
5-2.5L	.07	.08	.09	7-95U	.07	.07	.05
5-5L	-.05	-.04	-.03	7-1.25L	.22	.23	.24
5-8L	-.04	-.04	-.04	7-2.5L	.08	.09	.11
5-14L	-.05	-.05	-.04	7-5L	0	0	.01
5-19L	-.11	-.09	-.09	7-8L	-.04	-.04	-.03
5-38L	-.11	-.11	-.11	7-14L	-.08	-.08	-.07
5-44L	-.10	-.09	-.09	7-19L	-.10	-.09	-.09
5-60L	-.12	-.12	-.12	7-32L	-.11	-.09	-.09
5-70L	-.01	-.01	-.01	7-44L	-.10	-.09	-.09
5-90L	.04	.04	.04	7-60L	-.10	-.08	-.08
5-95L	.07	.07	.07	7-70L	-.05	-.05	-.05
6-0C	.53	.51	.51	7-90L	.04	.04	.04
6-5U	-.26	-.27	-.28	7-95L	.08	.08	.08
6-14U	-.23	-.24	-.24	8-0C	.42	.42	.41
6-19U	0	0	0	8-1.25U	-.26	-.27	-.28
6-32U	-.18	-.18	-.19	8-2.5U	-.33	-.34	-.34
6-44U	-.15	-.16	-.16	8-5U	-.27	-.27	-.27
6-60U	-.14	-.15	-.15	8-8U	-.23	-.24	-.24
6-70U	-.12	-.12	-.12	8-14U	-.21	-.20	-.20
6-80U	-.05	-.05	-.05	8-19U	-.19	-.19	-.19
6-90U	.03	.03	.03	8-60U	-.03	-.03	-.01
6-100C	.14	.12	.13	8-80U	-.03	-.03	-.03
6-1.25L	.21	.22	.23	8-90U	.03	.03	.03
6-2.5L	.04	.05	.07	8-95U	-.07	-.07	-.07
6-5L	-.01	0	0	8-100C	.14	.13	.13



TABLE 10.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$	ORIFICE	$\delta_e = -32$	$\delta_e = -28$	$\delta_e = -24$
8-1.25L	+0.07	0.08	0.08	11-32U	-0.07	-0.07	-0.08
8-2.5L	0	.02	.01	12-32U	-.04	-.04	-0.04
8-5L	-.07	-.07	-.05	TIP-32C	-.05	-.05	-.05
8-8L	-.11	-.09	-.09	11-32L	-.08	-.08	-.08
8-14L	-.11	-.11	-.11	10-32L	-.09	-.09	-.09
8-19L	-.09	-.09	-.09	10-70U	-.01	-.01	-.03
8-32L	-.08	-.08	-.08	11-70U	.01	0	0
8-38L	-.08	-.08	-.08	12-70U	.04	.04	.04
8-44L	-.09	-.09	-.09	TIP-70C	.03	.03	.03
8-60L	-.05	-.07	-.05	12-70L	.04	.03	.04
8-95L	.09	.09	.09	11-70L	.01	.01	.01
9-0C	.54	.54	.54	10-70L	-.01	-.01	-.01
9-1.25U	-.03	-.04	-.05	FIN-1	-.09	-.09	-.09
9-2.5U	-.12	-.13	-.13	FIN-2	-.36	-.36	-.35
9-5U	-.13	-.15	-.15	FIN-3	-.49	-.47	-.47
9-14U	-.16	-.16	-.18	FIN-4	..	-.46	-.45
9-19U	-.15	-.15	-.15	FIN-5	-.24	-.24	-.24
9-32U	-.13	-.13	-.13	FIN-6	-.16	-.18	-.16
9-44U	-.08	-.08	-.08	FIN-7	-1.04	-1.05	-1.05
9-70U	.03	.01	.01	FIN-8	-.42	-.42	-.42
9-80U	.03	.03	.03	FIN-9	-.26	-.26	-.26
9-100C	.13	.13	.13	FIN-10	-.22	-.22	-.22
9-1.25L	.05	.07	.07	FIN-11	-.15	-.15	-.15
9-5L	-.04	-.04	-.04	FIN-12	-.11	-.11	-.11
9-8L	-.09	-.09	-.09	FIN-13	-1.07	-1.07	-1.05
9-14L	-.11	-.09	-.09	FIN-14	-.42	-.43	-.42
9-19L	-.11	-.09	-.09	FIN-15	-.16	-.16	-.16
9-32L	-.12	-.12	-.12	FIN-16	-.09	-.09	-.09
9-38L	-.08	-.08	-.09	FIN-17	-.09	-.11	-.09
9-44L	-.05	-.05	-.05	FIN-18	-.08	-.08	-.08
9-70L	-.01	-.01	-.01	FIN-19	-.09	-.09	-.09
9-90L	.08	.08	.08	FIN-20	-.05	-.05	-.05
9-95L	.15	.15	.15	FIN-21	-.15	-.15	-.15
2S-60U	-.15	-.15	-.15	FIN-22	-.09	-.09	-.09
2S-60L	-.08	-.08	-.08	FIN-23	-.05	-.07	-.07
5S-60U	-.05	-.07	-.07	FIN-24	.03	.03	.03
5S-60L	-.05	-.07	-.07	FIN-25	-.20	-.20	-.20
8S-60U	-.09	-.09	-.09	FIN-26	-.13	-.13	-.13
8S-60L	-.05	-.05	-.05	FIN-27	-.08	-.07	-.07
10-32U	.03	.03	.03	FIN-28	-.05	-.05	-.05

TABLE 10.- CONTINUED  
(b) - Continued

ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$	ORIFICE	$\delta_e = -20$	$\delta_e = -16$	$\delta_e = -12$
8-1.25L	0.11	0.11	0.12	11-32U	-0.08	-0.08	-0.08
8-2.5L	.04	.04	.05	12-32U	-.05	-.04	-.04
8-5L	-.05	-.05	-.04	TIP-32C	-.05	-.07	-.07
8-8L	-.08	-.08	-.08	11-32L	-.08	-.08	-.08
8-14L	-.09	-.09	-.09	10-32L	-.09	-.09	-.09
8-19L	-.09	-.09	-.09	10-70U	-.03	-.03	-.03
8-32L	-.08	-.08	-.08	11-70U	0	.01	0
8-38L	-.08	-.08	-.08	12-70U	.04	.03	.03
8-44L	-.09	-.09	-.09	TIP-70C	.03	.03	.03
8-60L	-.07	-.07	-.07	12-70L	.03	.03	.03
8-95L	.08	.08	.08	11-70L	0	0	0
9-0C	.54	.54	.53	10-70L	-.01	-.01	-.01
9-1.25U	-.08	-.08	-.11	FIN-1	-.09	-.09	-.09
9-2.5U	-.16	-.16	-.19	FIN-2	-.36	-.36	-.36
9-5U	-.18	-.18	-.19	FIN-3	-.49	-.49	-.49
9-14U	-.18	-.19	-.19	FIN-4	-.46	-.46	-.46
9-19U	-.16	-.16	-.16	FIN-5	-.24	-.23	-.24
9-32U	-.13	-.15	-.15	FIN-6	-.18	-.18	-.18
9-44U	-.08	-.09	-.09	FIN-7	-1.08	-1.11	-1.12
9-70U	.01	.01	.01	FIN-8	-.43	-.45	-.45
9-80U	.01	.01	.01	FIN-9	-.26	-.26	-.26
9-100C	.13	.13	.13	FIN-10	-.22	-.22	-.22
9-1.25L	.08	.09	.11	FIN-11	-.15	-.15	-.15
9-5L	-.03	-.01	-.01	FIN-12	-.11	-.11	-.11
9-8L	-.08	-.08	-.08	FIN-13	-1.10	-1.14	-1.15
9-14L	-.09	-.09	-.09	FIN-14	-.43	-.45	-.45
9-19L	-.09	-.09	-.09	FIN-15	-.16	-.16	-.16
9-32L	-.12	-.12	-.12	FIN-16	-.09	-.09	-.09
9-38L	-.08	-.08	-.09	FIN-17	-.11	-.11	-.09
9-44L	-.05	-.05	-.05	FIN-18	-.08	-.08	-.08
9-70L	-.01	-.01	-.03	FIN-19	-.09	-.09	-.09
9-90L	.08	.08	.08	FIN-20	-.05	-.05	-.05
9-95L	.15	.15	.13	FIN-21	-.15	-.15	-.15
2S-60U	-.16	-.16	-.18	FIN-22	-.09	-.09	-.09
2S-60L	-.08	-.08	-.08	FIN-23	-.07	-.07	-.07
5S-60U	-.07	-.07	-.08	FIN-24	.03	.04	.03
5S-60L	-.07	-.07	-.07	FIN-25	-.20	-.20	-.20
8S-60U	-.11	-.11	-.11	FIN-26	-.13	-.13	-.13
8S-60L	-.05	-.05	-.05	FIN-27	-.07	-.07	-.08
10-32U	.03	.03	.03	FIN-28	-.05	-.05	-.05



TABLE 10.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$	ORIFICE	$\delta_e = -8$	$\delta_e = -4$	$\delta_e = 0$
8-1.25L	0.15	0.14	0.16	11-32U	-0.08	-0.10	-0.08
8-2.5L	.07	.05	.08	12-32U	-.05	-.07	-.05
8-5L	-.03	-.04	-.01	TIP-32C	-.07	-.08	-.08
8-8L	-.07	-.08	-.07	11-32L	-.09	-.11	-.10
8-14L	-.09	-.11	-.08	10-32L	-.09	-.11	-.11
8-19L	-.09	-.11	-.10	10-70U	-.01	-.04	-.03
8-32L	-.08	-.10	-.08	11-70U	0	-.01	0
8-38L	-.08	-.10	-.08	12-70U	.03	.01	.01
8-44L	-.09	-.11	-.10	TIP-70C	.04	.03	.03
8-60L	-.07	-.10	-.08	12-70L	.03	.01	.01
8-95L	.09	.07	.08	11-70L	0	-.01	-.01
9-0C	.53	.52	.51	10-70L	-.03	-.04	-.03
9-1.25U	-.13	-.15	-.16	FIN-1	-.09	-.11	-.11
9-2.5U	-.20	-.22	-.23	FIN-2	-.38	-.38	-.38
9-5U	-.20	-.22	-.22	FIN-3	-.50	-.51	-.49
9-14U	-.19	-.21	-.20	FIN-4	-.46	-.48	-.46
9-19U	-.18	-.19	-.19	FIN-5	-.26	-.26	-.26
9-32U	-.15	-.16	-.16	FIN-6	-.18	-.19	-.18
9-44U	-.09	-.11	-.11	FIN-7	-1.16	-1.16	-1.15
9-70U	.01	0	.01	FIN-8	-.46	-.42	-.46
9-80U	.01	0	.01	FIN-9	-.27	-.29	-.27
9-100C	.13	.12	.12	FIN-10	-.23	-.25	-.23
9-1.25L	.12	.12	.15	FIN-11	-.15	-.16	-.15
9-5L	-.01	-.01	0	FIN-12	-.11	-.12	-.11
9-8L	-.07	-.08	-.07	FIN-13	.18	-1.19	-1.20
9-14L	-.08	-.10	-.08	FIN-14	-.46	-.48	-.46
9-19L	-.09	-.11	-.09	FIN-15	-.18	-.19	-.18
9-32L	-.12	-.14	-.12	FIN-16	-.11	-.12	-.11
9-38L	-.09	-.11	-.09	FIN-17	-.11	-.12	-.11
9-44L	-.05	-.07	-.05	FIN-18	-.08	-.10	-.09
9-70L	-.03	-.04	-.03	FIN-19	-.09	-.11	-.11
9-90L	.08	.05	.07	FIN-20	-.07	-.08	-.07
9-95L	.13	.12	.13	FIN-21	-.15	-.16	-.15
2S-60U	-.18	-.21	-.20	FIN-22	-.09	-.11	-.09
2S-60L	-.08	-.11	-.09	FIN-23	-.07	-.08	-.07
5S-60U	-.08	-.10	-.09	FIN-24	.03	.01	.03
5S-60L	.35	-.08	-.08	FIN-25	-.20	-.22	-.22
8S-60U	-.12	-.12	-.12	FIN-26	-.13	-.15	-.13
8S-60L	-.05	-.07	-.07	FIN-27	-.07	-.10	-.08
10-32U	.03	.03	.03	FIN-28	-.05	-.08	-.07

TABLE 10.- CONTINUED

(b) - Continued

ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$	ORIFICE	$\delta_e=4$	$\delta_e=8$	$\delta_e=12$
8-1.25L	0.18	0.18	0.19	11-32U	-0.08	-0.11	-0.11
8-2.5L	.08	.10	.10	12-32U	-.05	-.08	-.08
8-5L	0	-.01	-.01	TIP-32C	-.08	-.11	-.11
8-8L	-.05	-.07	-.07	11-32L	-.09	-.11	-.11
8-14L	-.08	-.10	-.10	10-32L	-.09	-.11	-.11
8-19L	-.09	-.11	-.11	10-70U	-.03	-.04	-.04
8-32L	-.08	-.10	-.10	11-70U	0	-.01	-.01
8-38L	-.08	-.10	-.10	12-70U	.01	0	0
8-44L	-.09	-.11	-.11	TIP-70C	.03	.01	.03
8-60L	-.09	-.11	-.11	12-70L	.01	0	0
8-95L	.08	.07	.07	11-70L	-.01	-.03	-.04
9-0C	.51	.49	.49	10-70L	-.03	-.05	-.04
9-1.25U	-.18	-.22	-.22	FIN-1	-.11	-.12	-.12
9-2.5U	-.24	-.27	-.29	FIN-2	-.39	-.41	-.41
9-5U	-.23	-.26	-.27	FIN-3	-.51	-.53	-.52
9-14U	-.22	-.23	-.25	FIN-4	-.46	-.48	-.48
9-19U	-.19	-.22	-.22	FIN-5	-.26	-.26	-.26
9-32U	-.16	-.18	-.18	FIN-6	-.18	-.19	-.19
9-44U	-.11	-.12	-.12	FIN-7	.12	-1.29	-1.30
9-70U	.01	0	0	FIN-8	-.47	-.49	-.51
9-80U	.01	0	0	FIN-9	-.27	-.29	-.15
9-100C	.13	.12	.11	FIN-10	-.23	-.25	-.25
9-1.25L	.15	.15	.16	FIN-11	-.16	-.16	-.18
9-5L	0	0	0	FIN-12	-.11	-.12	-.12
9-8L	-.07	-.07	-.07	FIN-13	-1.29	-1.36	-1.36
9-14L	-.08	-.10	-.10	FIN-14	-.47	-.51	-.51
9-19L	-.09	-.10	-.10	FIN-15	-.18	-.19	-.19
9-32L	-.12	-.14	-.14	FIN-16	-.11	-.12	-.12
9-38L	-.10	-.11	-.11	FIN-17	-.11	-.12	-.12
9-44L	-.05	-.07	-.07	FIN-18	-.09	-.11	-.11
9-70L	-.03	-.04	-.04	FIN-19	-.11	-.12	-.12
9-90L	.07	.05	.05	FIN-20	-.07	-.08	-.08
9-95L	.13	.12	.12	FIN-21	-.15	-.16	-.18
2S-60U	-.20	-.23	-.25	FIN-22	-.11	-.11	-.12
2S-60L	-.11	-.12	-.12	FIN-23	-.07	-.08	-.10
5S-60U	-.09	-.11	-.12	FIN-24	.03	.01	.03
5S-60L	-.07	-.10	-.10	FIN-25	-.22	-.23	-.23
8S-60U	-.13	-.15	-.15	FIN-26	-.13	-.16	-.16
8S-60L	-.07	-.08	-.08	FIN-27	-.08	-.10	-.10
10-32U	.03	.03	.03	FIN-28	-.07	-.08	.08



TABLE 10.- CONCLUDED

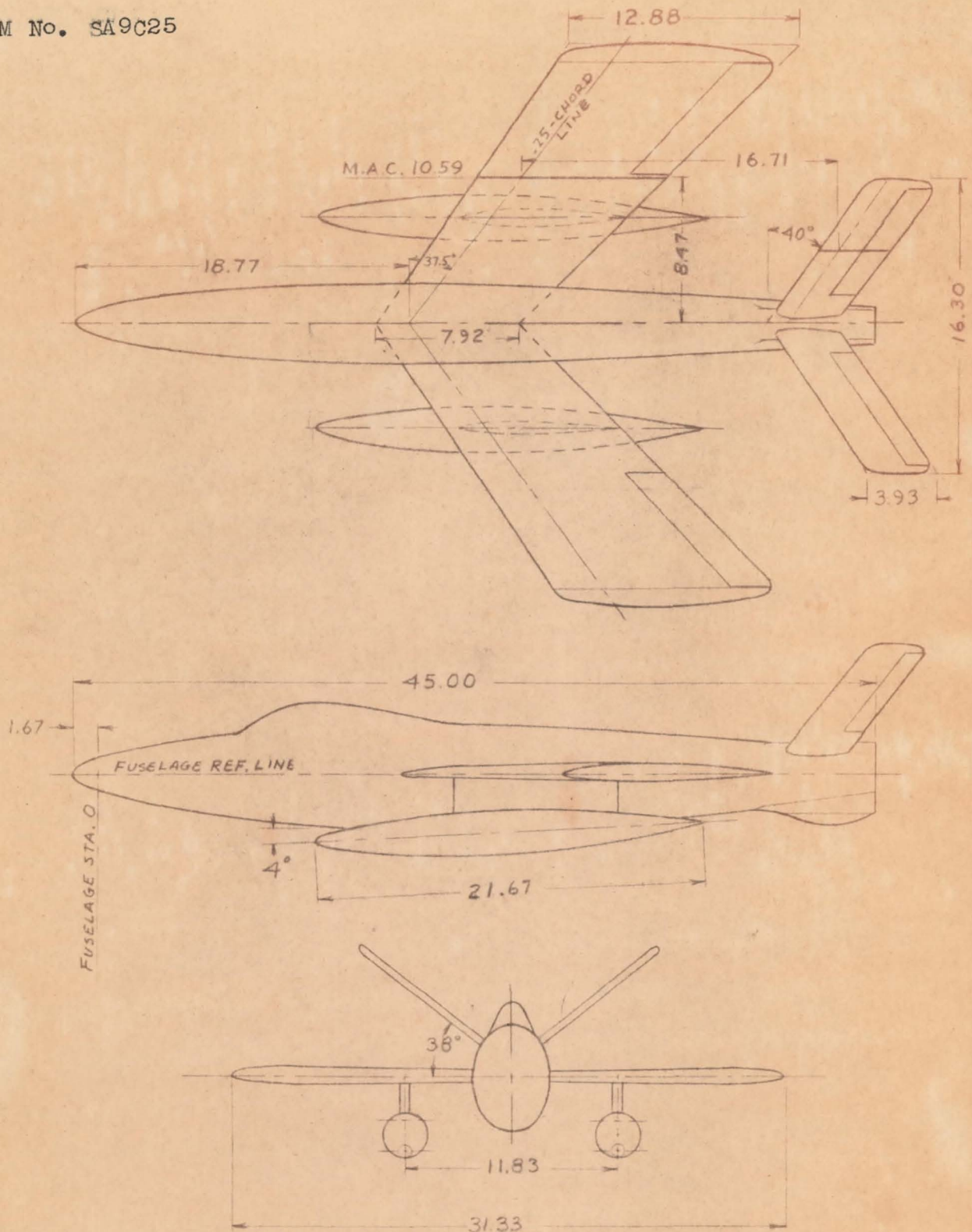
(b) - CONCLUDED

ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$	ORIFICE	$\delta_e=16$	$\delta_e=20$	$\delta_e=24$
8-1.25L	0.20	0.19	0.21	11-32U	-0.09	-0.11	-0.11
8-2.5L	.12	.11	.12	12-32U	-.07	-.08	-.10
8-5L	.03	0	0	TIP-32C	-.09	-.11	-.12
8-8L	-.04	-.05	-.05	11-32L	-.11	-.12	-.12
8-14L	-.08	-.08	-.08	10-32L	-.11	-.12	-.12
8-19L	-.09	-.11	-.11	10-70U	-.03	-.04	-.04
8-32L	-.08	-.10	-.10	11-70U	0	-.01	-.01
8-38L	-.08	-.10	-.10	12-70U	0	-.01	-.01
8-44L	-.09	-.11	-.11	TIP-70C	.04	.01	.03
8-60L	-.09	-.12	-.12	12-70L	0	-.01	-.01
8-95L	.08	.07	.07	11-70L	-.03	-.04	-.05
9-0C	.49	.48	.47	10-70L	-.04	-.05	-.05
9-1.25U	-.23	-.26	-.27	FIN-1	-.11	-.12	-.12
9-2.5U	-.28	-.31	-.31	FIN-2	-.41	-.41	-.44
9-5U	-.26	-.29	-.29	FIN-3	-.53	-.53	-.56
9-14U	-.09	-.26	-.26	FIN-4	-.46	-.48	-.49
9-19U	-.20	-.22	-.23	FIN-5	-.24	-.26	-.26
9-32U	-.18	-.19	-.19	FIN-6	-.18	-.19	-.19
9-44U	-.12	-.14	-.14	FIN-7	-1.30	-1.30	-1.40
9-70U	.01	0	0	FIN-8	-.49	-.51	-.52
9-80U	.01	0	0	FIN-9	-.27	-.29	-.30
9-100C	.12	.11	.11	FIN-10	-.24	-.26	-.26
9-1.25L	.18	.18	.18	FIN-11	-.16	-.18	-.18
9-5L	.01	.01	.01	FIN-12	-.12	-.14	-.14
9-8L	-.05	-.07	-.05	FIN-13	-1.38	-1.37	-1.48
9-14L	-.08	-.08	-.08	FIN-14	-.50	-.51	-.55
9-19L	-.08	-.10	-.10	FIN-15	-.19	-.21	-.21
9-32L	-.12	-.14	-.14	FIN-16	-.11	-.12	-.12
9-38L	-.09	-.11	-.11	FIN-17	-.11	-.14	-.14
9-44L	-.05	-.07	-.07	FIN-18	-.09	-.11	-.11
9-70L	-.03	-.05	-.05	FIN-19	-.11	-.12	-.12
9-90L	.07	.05	.05	FIN-20	-.07	-.10	-.08
9-95L	.13	.12	.12	FIN-21	-.16	-.18	-.18
2S-60U	-.24	-.26	-.27	FIN-22	-.11	-.12	-.12
2S-60L	-.11	-.14	-.14	FIN-23	-.08	-.10	-.10
5S-60U	-.11	-.14	-.14	FIN-24	.04	.01	.03
5S-60L	-.08	-.10	-.10	FIN-25	-.22	-.25	-.25
8S-60U	-.13	-.16	-.16	FIN-26	-.15	-.16	-.16
8S-60L	-.07	-.08	-.08	FIN-27	-.08	-.11	-.11
10-32U	.03	.01	.03	FIN-28	-.07	-.10	-.10

FIGURE LEGENDS

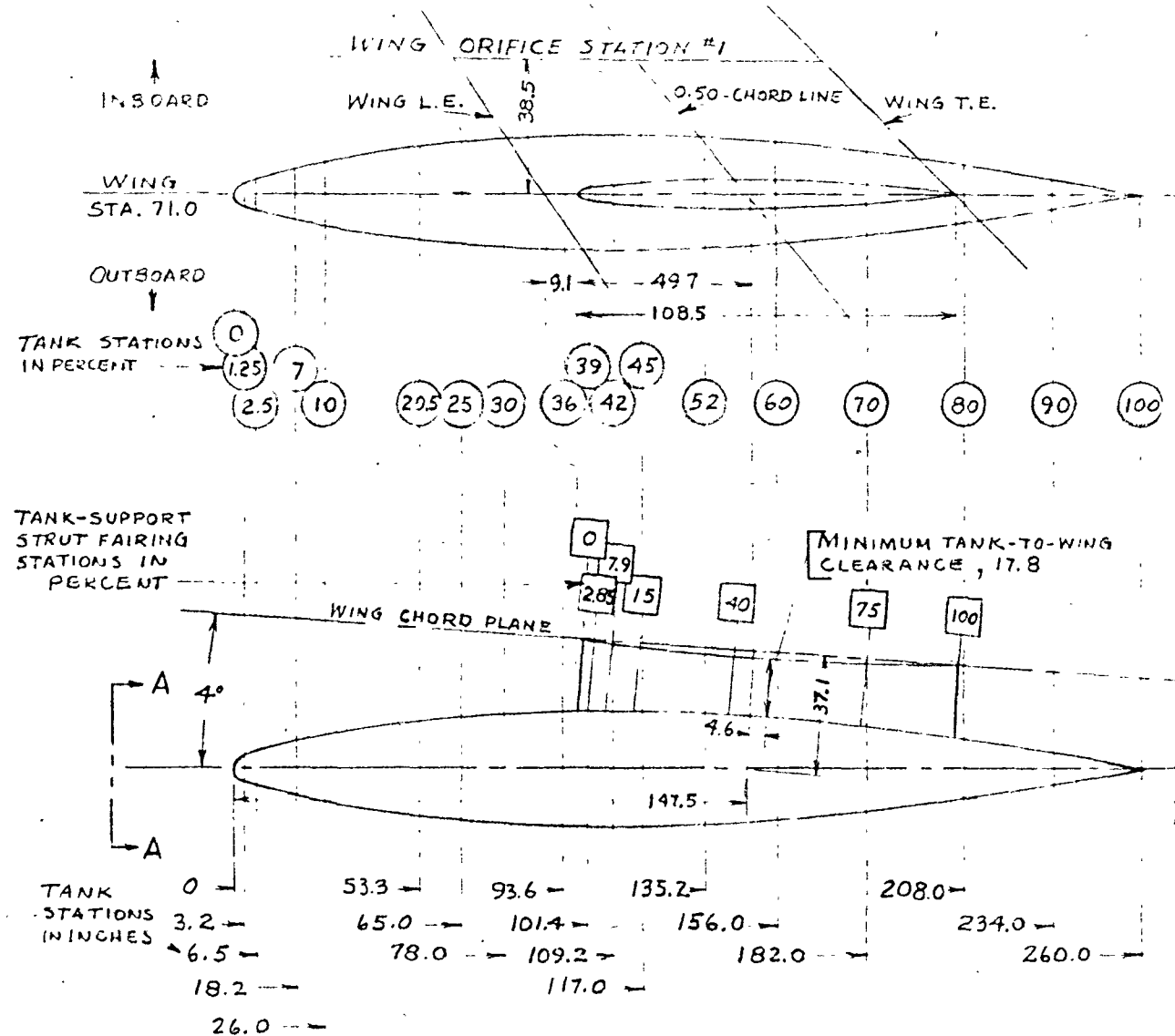
- Figure 1.- Three-view sketch of the model of the Republic XF-91.
- Figure 2.- Location of the orifices on the tank, tank-strut fairing, and wing.
- Figure 3.- Locations of the fuselage orifices.
- Figure 4.- Location of the orifices on the left stabilizer and elerudder.
- Figure 5.- Orifice locations on the ventral fin.
- Figure 6.- Angle-of-attack correction curve.



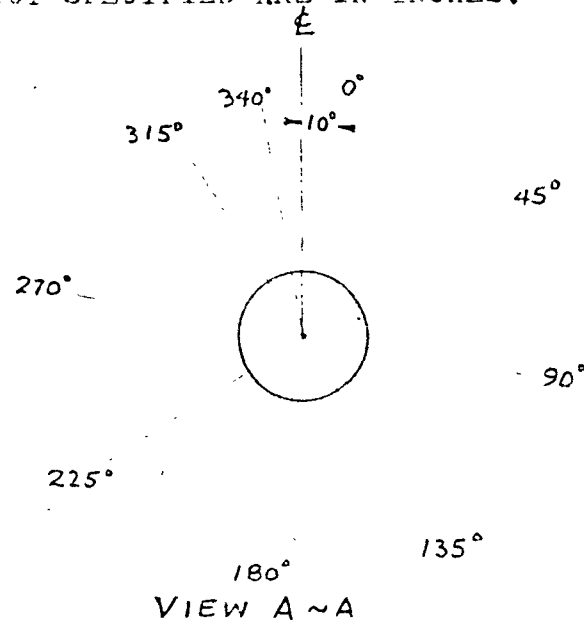


NOTE: ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED.

FIGURE 1.- THREE-VIEW SKETCH OF THE MODEL OF THE REPUBLIC XF-91.



NOTE: ALL DIMENSIONS NOT SPECIFIED ARE IN INCHES.



	TANK	STRUT	WING
0-OT	25-45T	52-90T	0-US
1.25-OT	25-90T	52-135T	1-15W-L
1.25-90T	25-135T	100-OT	2.85-UI-S
1.25-180T	25-180T	52-225T	7.9-UI-S
1.25-270T	25-225T	52-270T	1-25W-L
2.5-OT	25-270T	52-315T	1-30W-L
2.5-45T	25-315T	52-AIT	1-40W-L
2.5-90T	30-OT	60-AOT	1-50W-L
2.5-135T	36-OT	60-AIT	1-60W-L
2.5-180T	36-340T	70-AOT	
2.5-225T	39-AOT	70-45T	
2.5-270T	39-45T	70-90T	
7-OT	39-90T	70-180T	
7-45T	39-135T	70-225T	
7-90T	39-225T	70-135T	
7-135T	39-270T	70-270T	
7-180T	39-315T	70-315T	
7-225T	39-AIT	70-AIT	
7-270T	42-AIT	80-AIT	
7-315T	45-AIT	80-340T	
10-OT	45-315T	90-OT	
10-45T	45-270T	90-45T	
10-90T	45-225T	90-90T	
10-135T	45-135T	90-135T	
10-180T	45-90T	90-180T	
10-225T	45-40T	90-225T	
10-270T	45-AOT	90-270T	
10-315T	39-180T	90-315T	
20.5-OT	42-AOT		
25-OT	52-AOT		
	52-45T		
		2.85-LI-S	
		7.9-LI-S	
		40-LI-S	
		75-LI-S	
		100-LI-S	
		75-LO-S	
		40-LO-S	
		15-LO-S	
		7.9-LO-S	
		2.85-LO-S	

ORIFICE NUMBERING SYSTEM

1. FIRST NUMBER INDICATES TANK OR SUPPORT STRUT STATION IN PERCENT CHORD.
2. FOR TANK ORIFICES THE SECOND NUMBER INDICATES THE CIRCUMFERENTIAL LOCATION IN DEGREES FROM 10° PAST TOP DEAD CENTER AS SHOWN IN VIEW A-A (EXCEPTION- ORIFICES LOCATED ADJACENT TO THE STRUT SHALL CARRY IN PLACE OF CIRCUM. LOCATION AN "AO"= OUTBOARD OR "AI"= INBOARD. THESE ORIFICES ARE LOCATED 1 1/2 IN. FROM THE SUPPORT STRUT).
3. THE SECOND SERIES OF LETTERS FOR SUPPORT-STRUT ORIFICES ARE "U"= UPPER OR "L"= LOWER AND "O"= OUTBOARD OR "I"= INBOARD. THESE ORIFICES ARE LOCATED 1 1/2 IN. FROM BELOW AND ABOVE THE WING AND TANK, RESPECTIVELY.
4. THE FINAL LETTER DESIGNATES THE LOCATION OF THE ORIFICES ON THE TANK (T) OR SUPPORT STRUT (S).
5. BOTH ORIFICES 15-I<sub>1</sub>-S AND 15-I<sub>2</sub>-S ARE LOCATED 4in. BELOW AND ABOVE THE WING AND TANK, RESPECTIVELY. ORIFICE 15-I<sub>3</sub>-S IS LOCATED MID WAY BETWEEN THE WING AND TANK. ORIFICES 15-I<sub>2</sub>-S AND 15-I<sub>1</sub>-S ARE LOCATED 3in. ABOVE AND BELOW, RESPECTIVELY, ORIFICE 15-I<sub>3</sub>-S.
6. WING ORIFICES: 1st NUMBER--WING ORIFICE STA. NO. 1 (SEE FIG. 17-1), 2nd NUMBER--LOCATION IN PERCENT OF WING CHORD. 3rd, 4th, 5th--LOWER SURFACE.

LOCATION OF THE ORIFICES ON THE TANK, SUPPORT STRUT AND WING



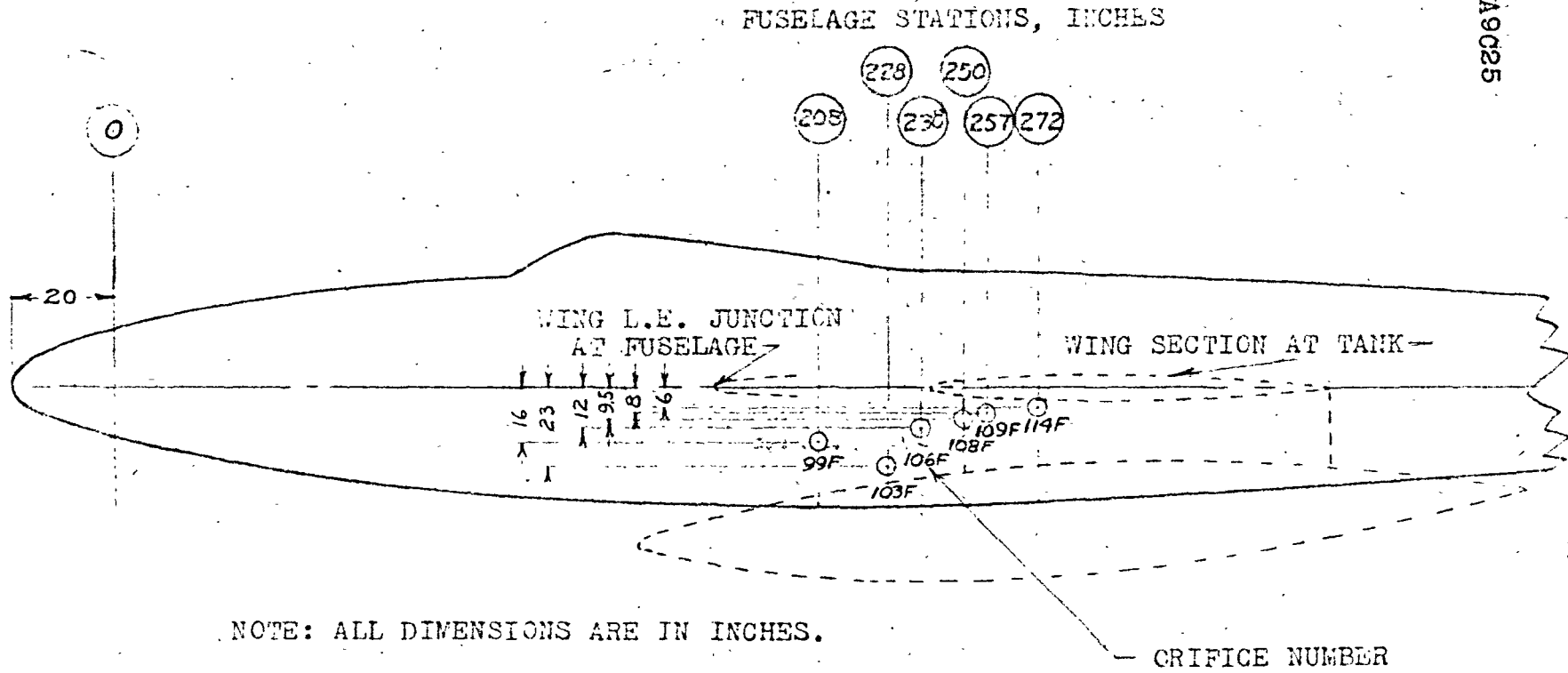
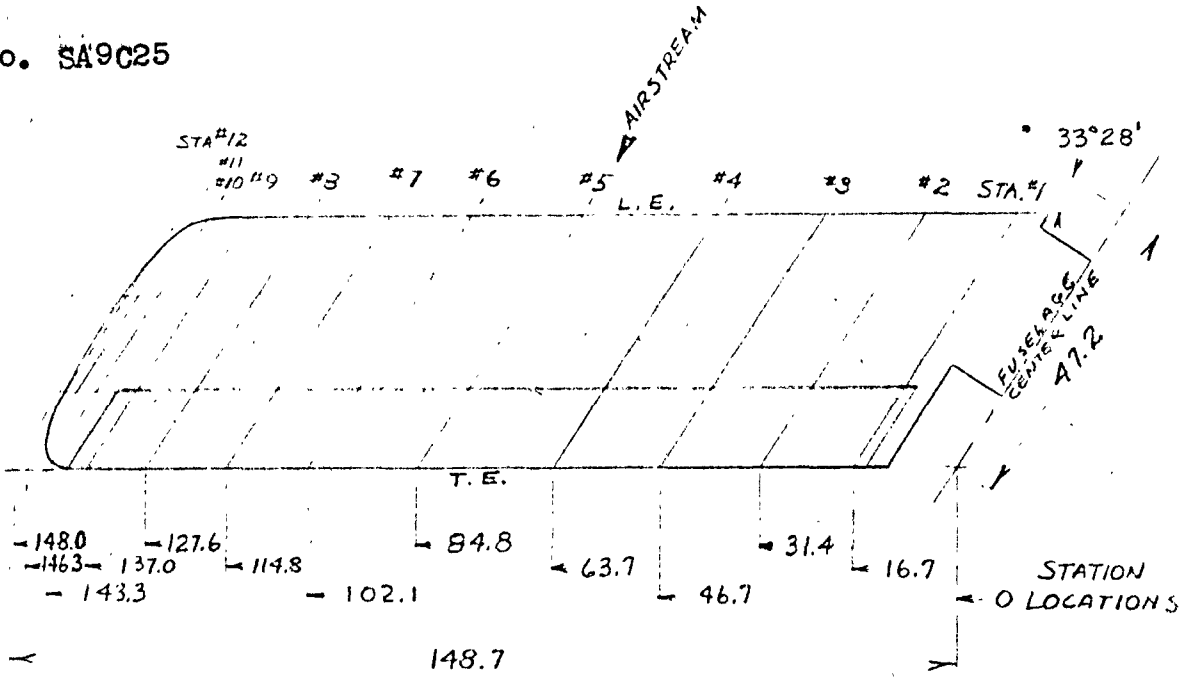


FIGURE 3.- LOCATIONS OF THE FUSELAGE ORIFICES.



NOTES:

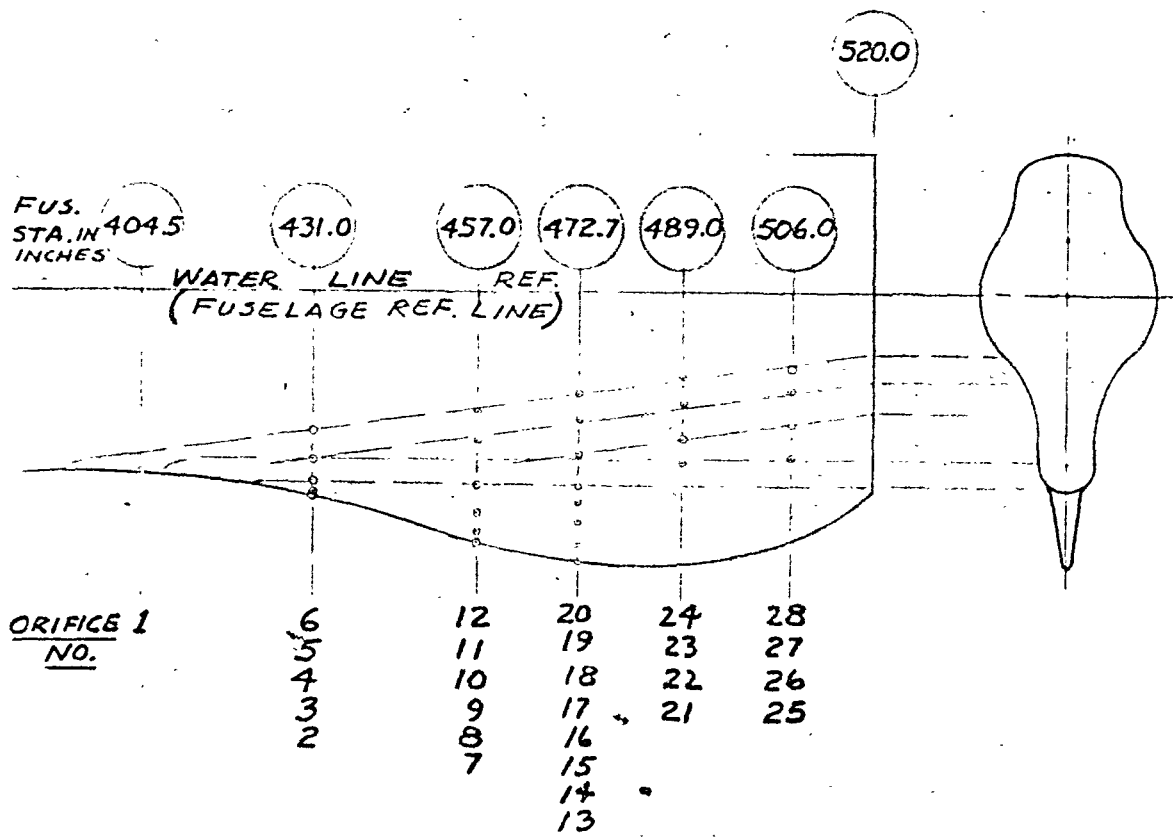
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
2. ALL DIMENSIONS AS SHOWN ARE IN THE PLANE OF THE SURFACE.

CRIFICE CODING SYSTEM USED IN PRESENTATION OF THE DATA

1. THE FIRST NUMBER INDICATES THE STATION NUMBER.
2. AN "S" FOLLOWING THE FIRST NUMBER INDICATES THE CRIFICE IS LOCATED INSIDE THE SEAL CHAMBER.
3. THE SECOND NUMBER IS THE CRIFICE LOCATION IN PERCENT CHORD.
4. LAST LETTER IS THE LOCATION: U = UPPER SURFACE, C = CHORD PLANE, AND L = LOWER SURFACE.
5. THE TWO TIP CRIFICES ARE IDENTIFIED BY "TIP" IN PLACE OF THE STATION NUMBER.

FIGURE 1.- LOCATION OF THE CRIFICES ON THE LEFT STABILIZER AND AIRBRAKE.





VENTRAL FIN ORIFICE LOCATION		
ORIFICE NUMBER	FUSELAGE STATION, INCHES	WATER LINE, INCHES
1	404.5	-10.0
2	404.5	-11.0
3	404.5	-11.5
4	404.5	-12.0
5	404.5	-12.5
6	404.5	-13.0
7	431.0	-13.0
8	431.0	-13.5
9	431.0	-14.0
10	431.0	-14.5
11	431.0	-15.0
12	431.0	-15.5
13	457.0	-16.0
14	457.0	-16.5
15	457.0	-17.0
16	457.0	-17.5
17	457.0	-18.0
18	457.0	-18.5
19	457.0	-19.0
20	457.0	-19.5
21	472.7	-19.5
22	472.7	-20.0
23	472.7	-20.5
24	472.7	-21.0
25	489.0	-20.5
26	489.0	-21.0
27	489.0	-21.5
28	489.0	-22.0

FIGURE 5.- CRIFICE LOCATIONS ON THE VENTRAL FIN.

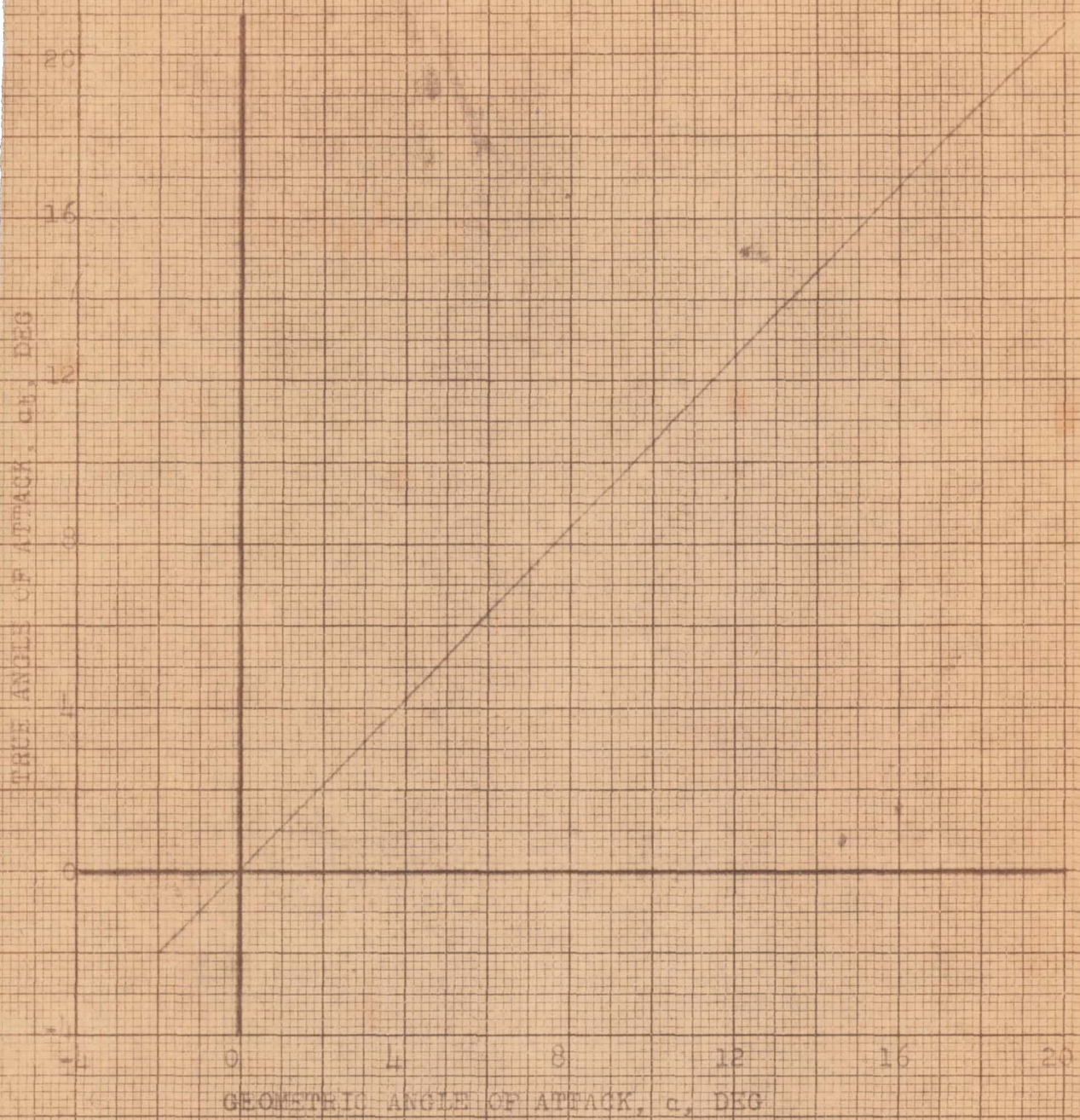


FIGURE 6.- ANGLE-OF-ATTACK CORRECTION CURVE.