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JUNE 1972



—SPACE SHUTTLE—

**SPACE SHUTTLE ABORT
SEPARATION PRESSURE
INVESTIGATION
VOLUME II PART B
ORBITER DATA AT MACH 5**

by
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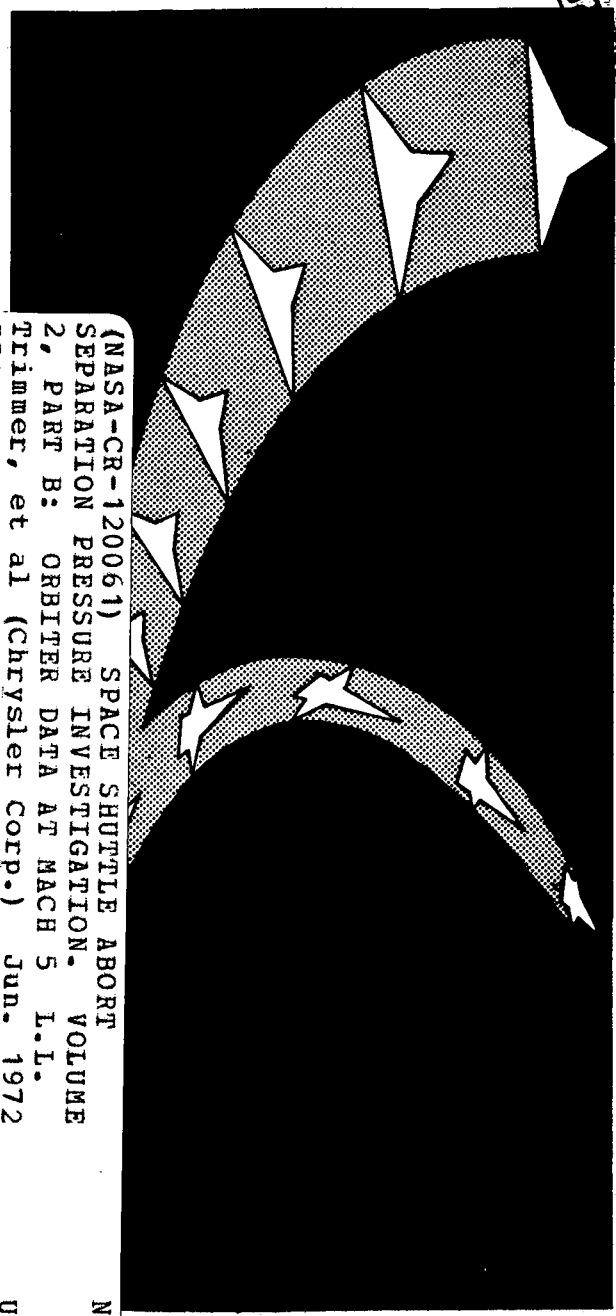
**AEDC-VKF TUNNEL A
Arnold Engineering
Development Center**

SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

CONTRACT NAS8-4016
MARSHALL SPACE FLIGHT CENTER



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VOLUME II - PART B
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SADSAC/SPACE SHUTTLE
WIND TUNNEL TEST DATA REPORT

CONFIGURATION: MDAC Orbiter and Booster Shuttle Models; 0.00556 Scale

TEST PURPOSE: Experimental Pressure Investigation of Space Shuttle Booster
and Orbiter Vehicles in Proximity at Mach Numbers of 2.0
to 5.0

TEST FACILITY: AEEDC-VKF Tunnel A

TESTING AGENCY: LaRC/MSFC

TEST NO. & DATE: AEEDC STS 1163; 22 through 27 July, 1971

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SPACE SHUTTLE ABORT SEPARATION

PRESSURE INVESTIGATION

By D. A. Love, etc.

S U M M A R Y

This report presents pressure data obtained from a joint Langley Research Center (LaRC)/Marshall Space Flight Center (MSFC) Space Shuttle abort stage separation wind tunnel test. The .00556 scale models of the McDonnell-Douglas orbiter and booster configurations were tested in proximity in Tunnel A of the Von Karman Facility (VKF), Arnold Engineering Development Center (AEDC) during the time period of July 22 to July 27, 1971. Data were obtained for nominal Mach numbers of 5.0, 3.0, and 2.0 and nominal Reynolds numbers of 1.09, 1.60, and 1.74 million per foot, respectively. Pressure data were obtained for the booster upper surface and orbiter lower surface at angles of attack of -10° , -5° , 0° , 5° , and 10° for zero degrees sideslip. For the complete pressure tap layout refer to figures 1 and 2 and tables II and III. The models were tested at incidence angles of 0° and 5° for several separation distances and power conditions. Plug nozzles utilizing air were used to simulate booster and orbiter plumes at various altitudes along a nominal ascent trajectory. Powered conditions were 100, 50, and 0 percent of full power for the orbiter and 100, 50 and 0 percent of full power for the booster. Data were also obtained with the booster canard off in close proximity.

Plotted data for this test will be published under one data report number (DMS-DR-1174) with six volumes as described below:

<u>Volume</u>	<u>Description</u>
I (Parts A & B)	Mach Number 5 Booster Pressure Data
II (Parts A & B)	Mach Number 5 Orbiter Pressure Data
III	Mach Number 3 Booster Pressure Data
IV	Mach Number 3 Orbiter Pressure Data
V	Mach Number 2 Booster Pressure Data
VI	Mach Number 2 Orbiter Pressure Data

NOMENCLATURE

AEDC STS 1163

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		Speed of sound; m/sec, ft/sec
b/2		Vehicle wing semi-span; in.
c		Local airfoil chord; in.
c.g.		Center of gravity
CP	CP	Pressure coefficient, $\frac{P_l - P_\infty}{q}$
L	L	Body length; in.
M _∞	MACH	Free stream mach number; V/a
P _l		Local static pressure; psia
P ₀		Free stream total pressure; psia
P _∞		Free stream static pressure; psia
q		Dynamic pressure; psi
RN/L	RN/L	Unit Reynolds number; per foot
T ₀		Freestream total temperature, °F
V		Velocity; m/sec, ft/sec
x		Distance from vehicle nose; in.
x/c	X/C	Local chord position
x/L	X/L	Longitudinal position
y		Distance from lateral centerline, in.
y/b/2	Y/B	Local semi-span position

NOMENCLATURE (Continued)

AEDC STS 1163

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
α_B	ALPHAB	Booster angle of attack; degrees
α_0	ALPHA ϕ	Orbiter angle of attack; degrees
α_i	ALPHAI	Incidence angle between the orbiter and booster, $\alpha_i = \alpha_0 - \alpha_B$; degrees
β	BETA	Angle of sideslip; degrees
θ	THETA	Angle measured from vehicle top center-line; degrees
PWR _B	BSTP ϕ W	Booster power, percent of full thrust
PWR _O	ϕ RBP ϕ W	Orbiter power, percent of full thrust
X/L _B	DELTA _X	Distance between the c.g. of the orbiter and booster measured parallel to the longitudinal axis of the booster, positive when the orbiter c.g. is forward of the booster c.g., the distance has been normalized with respect to the booster fuselage length (16.184 inches)
Z/L _B	DELTA _Z	Distance between the c.g. of the orbiter and booster measured normal to the longitudinal axis of the booster, positive when the orbiter c.g. is above the booster c.g., the distance has been normalized with respect to the booster fuselage length (16.184 inches)

CONFIGURATIONS INVESTIGATED

The two configurations tested were the MDAC orbiter and booster, figures 3 and 4 respectively. The orbiter is basically the configuration illustrated on MDAC drawing number 255BJ0050. Modifications made on the orbiter to allow for installation of the nozzle assembly are shown in figure 3.

The booster configuration is basically the configuration designated 19A by MDAC (drawing number 256-19-0001). The body, wing, and canard of the booster model are that of configuration 19A except that the body does not have a base flare or boattail, figure 4. The vertical tails are those which were designed for the configuration designated 17 (drawing number 256-17-001).

Dimensional data for both vehicles are shown in Table IV. Figures 7, 8, and 9 are photographs showing both models and models with associated separation hardware. Figures 8 and 9 also show the trip strip installation. For Mach 5 a grit size of #26 was utilized.

NOZZLE CALIBRATION

Two plug nozzle systems were designed and fabricated to simulate the rocket exhaust plume emitting from the booster and orbiter main propulsion systems during the staging. Each nozzle was designed based on the gasdynamic simulation parameters established in Ref. 1. A variable area ratio capability was incorporated into both nozzle systems to permit the proper gasdynamic simulation of the full scale rocket exhaust plume at the various trajectory conditions of interest. Photographs of the nozzle hardware are shown in figures 10, 11 and 12.

Nozzle Calibration Test Objectives

The objectives of the nozzle calibration test were:

- o Establish, experimentally, nozzle performance characteristics for the range of area ratio settings to be used with the booster and orbiter nozzles, respectively.
- o Establish the degree of plume simulation obtained with the booster and orbiter nozzles, respectively.
- o Establish a curve (based on experimental results) of nozzle exit conditions as a function of nozzle area ratio setting.

Nozzle Calibration

Calibration testing of the booster and orbiter plug nozzles was accomplished in Tunnel C of the Arnold Engineering Development Center's Von Karman Gas Dynamics Facility. The nozzles were tested individually at a series of area ratio settings. Nozzle operating conditions (chamber pressure, P_{0j} ; and chamber temperature, T_{0j}) were maintained in a range compatible with the abort staging test conditions. A quiescent low pressure, P_b , condition was maintained in the test cell. Data recorded at each area ratio setting included: optical data to determine plume shapes; static pressure measurements on the sting surface at the nozzle exit; nozzle mass flow measurements; and pitot pressure surveys in the plume at several locations downstream of the nozzle exit plane. The various test parameters sampled at each setting were correlated during the data evaluation to establish actual nozzle performance characteristics.

In a parallel effort, analytical solutions of the nozzle flow field and associated plume were generated for various area ratio settings of the booster and orbiter models. A method of characteristics solution employing real gas thermodynamic data for air was utilized in the calculations. Analytical results for each area ratio setting included: plume shape; static pressure distribution

NOZZLE CALIBRATION
(Continued)

along sting surface; and plots of constant Mach number and constant pitot pressure contours in the plume flow field. These results formed a baseline for evaluating the experimentally measured performance of the plug nozzles.

A detailed evaluation of the calibration test results has been prepared and presented in Reference 2. Included in this reference are curves relating experimentally measured nozzle performance to nozzle area ratio settings for both booster and orbiter. These curves were utilized to set the correct nozzle area ratio for exhaust plume gasdynamic simulations during the test.

TEST PROCEDURE

Abort staging was simulated by movement of the orbiter model through a matrix of points in the booster model flow field. Vertical and axial translation of the orbiter model was provided by an electrically driven remotely controlled positioning mechanism. The general arrangement of the models in the tunnel is shown in figure 5. The orbiter positioning mechanism and the booster model support were attached to the wind tunnel angle of attack system which provided ± 10 -degree angle of attack variation for the booster-orbiter combination. Incidence angle variation was provided by manual adjustment of the orbiter sting.

The orbiter positioning mechanism provided axial translation of approximately 17 inches and vertical translation of approximately 15 inches with respect to the booster. An automatic control system allowed a series of positions to be programmed prior to a test run. The control system had provisions for 25 different X-positions and 25 different Z-positions. For these tests, however, only a maximum of 6 X-positions and 5 Z-positions were utilized. All X and Z positions except the first and last could be switched in or out of the matrix as desired.

The automatic positioning mechanism was utilized in the pitch pause mode for this test. Pressure data was obtained at pre-selected angles of attack for a given relative position after which the automatic mechanism advanced to the next matrix position. The entire matrix was covered in this manner.

Plume simulation was provided by a single torodial nozzle in each model. The nozzles were designed with variable area ratio capability to permit proper simulation of the full-scale rocket plume at the various trajectory conditions of interest. Pretest calibration of the nozzles was used to correlate area ratio settings with measured plume shapes, nozzle mass flow, and nozzle exit static pressure. Air heated to approximately 100°F was supplied to the nozzles, and separate controls for the booster and orbiter supplies were provided.

TEST FACILITY DESCRIPTION

Tunnel A is a continuous, closed-circuit, variable density wind tunnel with an automatically driven flexible-plate-type nozzle and a 40- by 40-inch test section. The tunnel can be operated at Mach numbers from 1.5 to 6 at maximum stagnation pressures from 29 to 200 psia, respectively, and stagnation temperatures up to 750°R ($M_\infty = 6$). Minimum operating pressures range from about one-tenth to one-twentieth of the maximum at each Mach number. For a more comprehensive description of Tunnel A, see Reference 3.

DATA REDUCTION

The DELTAX and DELTAZ distances were referenced to nominal center of gravity locations on the orbiter and booster and to the booster body axis system. The nominal c.g. for the orbiter was located 4.917 inches aft of the nose, on the orbiter lateral centerline, and 1.390 inches below the top fuselage surface. Nominal c.g. for the booster was 7.528 inches aft of the model nose, on the booster lateral centerline, and 1.194 inches above the bottom fuselage surface. As illustrated in figure 6, the DELTAX distance is, then, parallel to the longitudinal axis of the booster and between the nominal center of gravity points on the orbiter and booster. The DELTAZ is perpendicular to the longitudinal axis of the booster and is the distance between the center of gravity points on the orbiter and booster. Values for DELTAX and DELTAZ are positive when the orbiter c.g. is forward and above the booster c.g. Both DELTAX and DELTAZ were normalized using the booster fuselage length of 16.184 inches.

R E F E R E N C E S

1. Sims, Joseph L., "Plume Simulation for Space Shuttle Abort Staging Aerodynamic Testing," Memo S&E-AERO-AF-70-6, December 1970.
2. Baker, L. R., "Calibration of the Propulsion Simulation Nozzles for the Space Shuttle Booster and Orbiter Models for the Abort/Separation Staging Experimental Program," IMSC/HREC D225144, June 1971.
3. "Test Facilities Handbook" (8th Edition), Arnold Engineering Development Center, December 1969.

TEST AEDC 1163 PRESSURE DATASET COLLATION SHEET

TABLE I

DATASET IDENTIFIER	CONFIGURATION	SCHED.			PARAMETER VALUES			NO. OF RUNS	DELTAX							
		α	β	P_0	T_0	M	α_i		$P_{W/B}$	$P_{U/B}$.105	.112	.120	.151	.228	.908
(1) T851 (2)	BOOSTER/ORBITER	A	0°	22	135	5.0	0°	0	0	116		A	B	B	B	C
T852		A					0°	100	50	22		A				C
T853		A					0°	50	100	114		A	B	B	B	C
T854		A					5°	50	100	24			D	D		
T855		B					5°	0	0	18			D	D		
T856		B					0°	50	100	20			D	D		C
T857		B		Y	Y		0°	0	0	21			D	D		C
T858		0°		150	180		0°	0	0	20			D	D		C
T859		A		22	135		0°	0	0	20						
T860		A					0°	100	100	8						E
T861		A					0°	100	0	20						E
T862	(CANARD OFF) (CANARD AND TRIPS OFF)	B		Y	Y		0°	0	0	9			F	F		C
T863		B		Y	Y		0°	0	0	6			F	F		

Refer to page 14 for DELTAX schedules.

PRETEST
 POSTEST

NOTES: (1)-Characters A through I refer to booster body, upper wing, lower wing, canard, & base, and orbiter body, upper wing, lower wing, & base, respectively.
(2)-Characters 1 through 5 refer to angles of attack of -10, -5, 0, +5, & +10 degrees, respectively.

$A(\alpha) = -10, -5, 0, +5, +10$
 $B(\alpha) = -5, 0, +5$

α or β
SCHEDULES

TABLE I (Continued)

TEST AEDC 11G3 PRESSURE DATASET COLLATION SHEET

PRETEST
 POSTEST

DATASET IDENTIFIER	CONFIGURATION	SCHD.		P ₀	T ₀	PARAMETER VALUES			NO. OF RUNS	DELTAZ											
		α	β			β _{SLR}	T ₀	α ₁		PWR _A	PWR _B	PWR _C	.105	.112	.120	.151	.228	.908			
(1) T831	BOOSTER/ORBITER	A	0°	11.5	120	3.0	0°	50	100	70											
T832		A	↓	↓	↓	↓	0°	0	0	55											
↓ T833		A	↓	↓	↓	↓	↓	0°	0	0	15	H									
(1) T821	BOOSTER/ORBITER	A	0°	7.5	120	2.0	0°	50	100	55											
T822		A					0°	0	0	55											
T823		A						0°	0	0	15	H									
T824		B						5°	50	100	18										
T825		B						5°	0	0	18										
T826		A						0°	100	0	15	H									
↓ T827		A	↓	↓	↓	↓	↓	0°	100	100	5	I									
(1) T8013	BOOSTER/ORBITER	0°	0°	-	-	0.0	5°	0	100	12											
↓ T8023		0°	0°	-	-	0.0	5°	0	100	6											

Refer to page 14 for DELTAX schedules.

NOTES: (1)-Characters A through I refer to booster body, upper wing, lower wing, canard, & base, and orbiter body, upper wing, lower wing, & base, respectively.
(2)-Characters 1 through 5 refer to angles of attack of -10, -5, 0, +5, & +10 degrees, respectively.

α or β SCHEDULES
A(α) = -10, -5, 0, +5, +10
B(α) = -5, 0, +5

TABLE I (Continued)

DELTA X Schedules

DELTA X Value DELTA X Schedule	0.520	0.350	0.227	0.165	0.104	0.041	-0.020	-0.144	-0.291	-0.391
A		X		X	X	X				
B		X	X		X		X	X		X
C	X									
D			X		X			X		
E				X	X	X			X	
F					X					
G	X									X
H				X	X	X				
I									X	

TABLE II
ORBITER PRESSURE TAP LOCATIONS

Tap No.	TAP LOCATION			Tap No.	TAP LOCATION							
	$(x/L)_o$	$(y/b/2)_o$	Surface		$(x/L)_o$	$(y/b/2)_o$	Surface					
1	0	0	Lower Body	28	.498	.231	Lower Body					
2	.019	↓	↓	29	.586	↓	↓					
3	.066											
4	.145											
5	.233											
6	.321											
7	.409											
8	.498											
9	.586											
10	.676											
11	.765											
12	.854											
13	.943											
14	.981			↓	↓			34	.674	.400	Lower Wing	
15	.149	.077	35			.762	↓					
16	.233	↓	36			.854						
17	.321		37			.942						
18	.409		38			.764		.569				
19	.498		39			.854		↓				
20	.586		40			.942						
25	.233		.191			41			.852	.738		
26	.321		.221			42			.942	↓		
27	.409		.231			43			↓		0	Upper Base
						44			↓		.138	Lower Base
						45			.981		-.007	Upper Wing
						46			.981		.289	↓
				47	.939	↓						
				48	.851							
			49	.981	.400							
			50	.939	↓							

x = Distance from orbiter nose
y = Distance from orbiter centerline
L = Orbiter length 27.153 cm (10.690 in.)
b/2 = Orbiter wing semi-span 8.255 cm (3.250 in.)

TABLE III

BOOSTER PRESSURE TAP LOCATIONS

Tap No.	TAP LOCATION			Tap No.	TAP LOCATION		
	$(x/L)_B$	$(y/b/2)_B$	Surface		$(x/L)_B$	$(y/b/2)_B$	Surface
1	.004	0	Body \mathcal{C} , $\theta = 0^\circ$	30	.243	.092	Body, $\theta = 24^\circ$
2	.014	↓	↓	31	.305	↓	↓
3	.025	↓	↓	32	.367	↓	↓
4	.062	↓	↓	33	.490	↓	↓
5	.120	↓	↓	34	.613	↓	↓
6	.181	↓	↓	35	.737	↓	↓
7	.243	↓	↓	36	.798	↓	↓
8	.305	↓	↓	37	.860	↓	↓
9	.366	↓	↓	38	.921	↓	↓
10	.490	↓	↓	39	.983	↓	↓
11	.613	↓	↓	40	.062	.155	Body, $\theta = 45^\circ$
12	.737	↓	↓	41	.124	↓	↓
13	.799	↓	↓	42	.185	↓	↓
14	.859	↓	↓	43	.247	↓	↓
15	.921	↓	↓	44	.309	↓	↓
16	.983	↓	↓	45	.371	↓	↓
17	.062	.018	Nose Section	46	.494	↓	↓
18	.120	.037	↓	47	.618	↓	↓
19	.181	.046	↓	48	.741	↓	↓
20	.243	↓	↓	49	.988	.220	Body, $\theta = 90^\circ$
21	.309	.220	Body, $\theta = 90^\circ$	93	.998	0	Base, $\theta = 0^\circ$
22	.371	↓	↓	94	↓	.193	90°
23	.494	↓	↓	95	↓	-.193	270°
24	.618	↓	↓	96	↓	0	180°
25	.741	↓	↓	97	.803	↓	Body, $\theta = 180^\circ$
26	.803	↓	↓	98	.865	↓	↓
27	.851	↓	↓	99	.927	↓	↓
28	.896	↓	↓	100	.988	↓	↓
29	.942	↓	↓			↓	↓

x = Distance from booster nose

y = Distance from booster centerline

L = Booster length 41.107 cm (16.184 in.)

$b/2$ = Booster semi-span 13.805 cm (5.435 in.)

TABLE III (Continued)

BOOSTER PRESSURE TAP LOCATIONS

Tap No.	TAP LOCATION			Tap No.	TAP LOCATION		
	$(x/c)_B$	$(y/b/2)_B$	Surface		$(x/c)_B$	$(y/b/2)_B$	Surface
53	.098	.221	Upper Wing	71	.718	.635	Upper Wing
54	.320	↓	↓	72	.926	↓	↓
55	.542	↓	↓	73	.066	.773	↓
56	.763	↓	↓	74	.275	↓	↓
57	.985	↓	↓	75	.484	↓	↓
58	.101	.359	↓	76	.696	↓	↓
59	.320	↓	↓	77	.896	↓	↓
60	.542	↓	↓	83	.195	.565	Upper Canard
61	.762	↓	↓	84	.716	↓	↓
62	.970	↓	↓	85	.195	.879	↓
63	.103	.497	↓	86	.716	↓	↓
64	.319	↓	↓	87	.514	.230	Lower Wing
65	.528	↓	↓	88	.737	↓	↓
66	.741	↓	↓	89	.960	↓	↓
67	.948	↓	↓	90	.496	.368	↓
68	.081	.635	↓	91	.718	↓	↓
69	.292	↓	↓	92	.940	↓	↓
70	.507	↓	↓				

x = Distance from airfoil leading edge

y = Distance from booster centerline

c = Local airfoil chord

b/2 = Booster wing semi-span 13.805 cm (5.435 in.) for wing taps

b/2 = Booster canard semi-span 6.071 cm (2.390 in.) for canard taps

TABLE III (Concluded)

BOOSTER PRESSURE TAP LOCATIONS



Surface	$(y/b/2)_B$	Local Chord, cm	Local Chord, in.	
Wing 	.221	8.387	3.302	
	.359	7.640	3.008	
	.497	6.962	2.741	
	.635	6.116	2.408	
	.773	5.301	2.087	
	.230	8.336	3.282	
	.368	7.564	2.978	
	Canard 	.565	4.877	1.923
		.879	4.877	1.923

TABLE IV. DIMENSIONAL DATA

MODEL COMPONENT: BODY - MDAC Orbiter

GENERAL DESCRIPTION: Basic fuselage contours including canopy with modified aft fuselage cross sections; cross-sectional shape constant from station 1500 to end of fuselage - model scale 1/180.

DRAWING NUMBER: 255 BJ 00060, Rev. B

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>156.4</u>	<u>.869</u>
Max. Width	<u>27.1</u>	<u>.150</u>
Max. Depth	<u>30.3</u>	<u>.168</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE IV. (CONTINUED)

MODEL COMPONENT: Wing - NDAC Orbiter

GENERAL DESCRIPTION: Model Scale 1/180

DRAWING NUMBER: 255 BJ 00050, Rev. B

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area, ft ²		
Planform		
Wetted	<u>5330.0</u>	<u>.164</u>
Span (equivalent), ft	<u>97.5</u>	<u>.542</u>
Aspect Ratio	<u>1.79</u>	<u>1.79</u>
Rate of Taper		
Taper Ratio	<u>.230</u>	<u>.230</u>
Dihedral Angle, degrees	<u>10.0</u>	<u>10.0</u>
Incidence Angle, degrees	<u>2.0</u>	<u>2.0</u>
Aerodynamic Twist, degrees	<u>0</u>	<u>0</u>
Sweep Back Angles, degrees		
Leading Edge	<u>55.0</u>	<u>55.0</u>
Trailing Edge	<u>0</u>	<u>0</u>
0.25 Element Line	<u>47.0</u>	<u>47.0</u>
Chords:		
Root (Wing Sta. 0.0), INCHES	<u>1084.8</u>	<u>6.027</u>
Tip, (equivalent), INCHES	<u>249.6</u>	<u>1.387</u>
MAC, inches	<u>754.8</u>	<u>4.193</u>
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
Airfoil Section		
Root (B.L. 162)	<u>0010-64</u>	<u>0010-64</u>
Tip (B.L. 540)	<u>0009-64</u>	<u>0009-64</u>

EXPOSED DATA

Area, ft ²	<u>3147.3</u>	<u>.097</u>
Span, (equivalent), ft	<u>70.5</u>	<u>.392</u>
Aspect Ratio	<u>1.58</u>	<u>1.58</u>
Taper Ratio		
Chords		
Root, inches	<u>855.0</u>	<u>4.750</u>
Tip, inches	<u>249.6</u>	<u>1.387</u>
MAC	<u>607.2</u>	<u>3.373</u>
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

TABLE IV. (CONTINUED)

MODEL COMPONENT: Vertical Tail - MDAC Orbiter

GENERAL DESCRIPTION: Model Scale 1/180

DRAWING NUMBER: 255 BJ 00050, Rev. B

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area, ft ²		
Planform	580.0	.018
Wetted		
Span (equivalent), ft.	27.5	.153
Aspect Ratio		
Rate of Taper		
Taper Ratio	.638	.638
Diehedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	30.0	30.0
Trailing Edge	13.4	13.4
0.25 Element Line	26.2	26.2
Chords:		
Root, inches	309.6	1.720
Tip, (equivalent), inches	196.8	1.093
MAC, inches	21.4	.119
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
Airfoil Section		
Root	0009-64	0009-64
Tip	0009-64	0009-64

EXPOSED DATA

Area, ft ²	580.0	.018
Span, (equivalent), ft	27.5	.153
Aspect Ratio		
Taper Ratio	.638	.638
Chords:		
Root, inches	309.6	1.720
Tip, inches	196.8	1.093
MAC, inches	21.4	.119
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

TABLE IV. (CONTINUED)

MODEL COMPONENT: BODY - MDAC Booster

GENERAL DESCRIPTION: Configuration 19A fuselage without base flare and boattail
Model Scale 1/180

DRAWING NUMBER: 256-19-0001, Rev. A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length (Ft)	<u>241.7</u>	<u>1.343</u>
Max. Width (Ft)	<u>34.0</u>	<u>.189</u>
Max. Depth (Ft)	<u>34.0</u>	<u>.189</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE IV. (CONTINUED)

MODEL COMPONENT: Wing - MDAC Booster

GENERAL DESCRIPTION: Configuration 19A Wing

Model Scale 1/180

DRAWING NUMBER: _____

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area, ft ²		
Planform	6020.0	.136
Wetted		
Span (equivalent), ft.	146.0	.811
Aspect Ratio	3.54	3.54
Rate of Taper		
Taper Ratio	.435	.435
Dihedral Angle, degrees	7.67	7.67
Incidence Angle, degrees	3.0	3.0
Aerodynamic Twist, degrees	0	0

Sweep Back Angles, degrees		
Leading Edge	44.0	44.0
Trailing Edge		
0.25 Element Line		

Chords:		
Root (Wing Sta. 0.0), inches	690.0	3.833
Tip, (equivalent)	300.0	1.667
MAC, inches	520.0	2.889
Fus. Sta. of .25 MAC, inches	3625	20.139
W.P. of .25 MAC, inches		
B.L. of .25 MAC, inches	380	2.111

Airfoil Section		
Root	0010-64	0010-64
Tip	0010-64	0010-64

EXPOSED DATA

Area, ft ²	4190.0	.129
Span, (equivalent), ft.		
Aspect Ratio		
Taper Ratio		
Chords:		
Root, inches	594.0	3.300
Tip, inches	300.0	1.667
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

TABLE IV. (CONTINUED)

MODEL COMPONENT: Vertical Tails - MDAC Booster
 GENERAL DESCRIPTION: Configuration 17 Vertical Tails
Model Scale 1/180

DRAWING NUMBER: 256-17-0001, Rev. A

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA (Values for one)

Area		
Planform (true)	433	.014
(Side Projection)	397	.012
Span (equivalent), inches	276	1.533
Aspect Ratio	1.21	1.21
Rate of Taper		
Taper Ratio	.520	.520

Toe-In Angle	0	0
Cant Angle	25	25
Sweep Back Angles, degrees		
Leading Edge	40	40
Trailing Edge		
0.25 Element Line		

Chords:		
Root	300	1.667
Tip, (equivalent), inches	156	.867
MAC, inches	236	1.311
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

Airfoil Section		
Root	NACA 64A-009	NACA 64A-009
Tip	NACA 64A-009	NACA 64A-009

EXPOSED DATA

Area		
Span, (equivalent)		
Aspect Ratio		
Taper Ratio		
Chords		
Root		
Tip		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

TABLE IV. (CONTINUED)

MODEL COMPONENT: Canard - MDAC Booster

GENERAL DESCRIPTION: Configuration 19A Canard

Model Scale 1/180

DRAWING NUMBER: 256-19-001, Rev. A

DIMENSIONS:

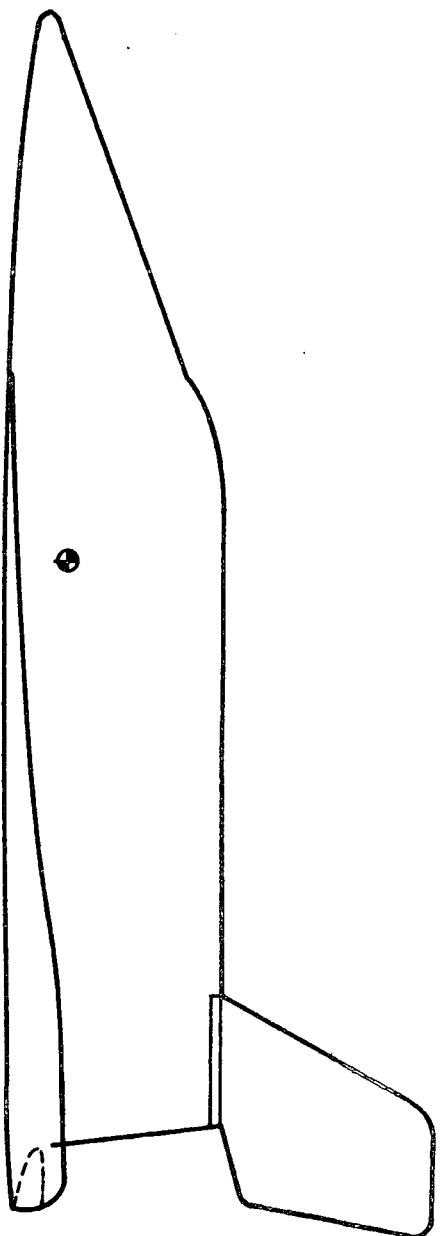
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Theo. Area, Ft ²	<u>1660</u>	<u>.051</u>
Exp Area, Ft ²	<u>1215</u>	<u>.038</u>
Aspect Ratio	<u>3.0</u>	<u>3.0</u>
Chord (Incl. Flap), Ft	<u>23.625</u>	<u>.131</u>
Airfoil (360 In. Theo Chord)	NACA <u>63-018</u>	NACA <u>63-018</u>

TABLE V. INDEX OF MODEL FIGURES

Figure	Title	Page
1	Pressure Tap Layout - Orbiter	28
2	Pressure Tap Layout - Booster	29
3	Modifications to Orbiter Model	30
4	Modifications to Booster Model	31
5	General Arrangement of Models in Tunnel	32
6	Separation Nomenclature and Center of Gravity Locations	33
7	Photograph of MDAC Booster and Orbiter Models	34
8	Photograph of Side View of Models and Separation Hardware	35
9	Photograph of Top View of Models and Associated Separation Hardware	36
10	Photograph of Booster and Orbiter Sting-Nozzle Hardware	37
11	Photograph of Booster Nozzle Hardware	38
12	Photograph of Orbiter Nozzle Hardware	39

TABLE VI. INDEX OF DATA FIGURES
 VOLUME 2 - PARTS A AND B

TITLE	VEHICLE SECTION	TYPE PLOT	CONDITIONS VARYING	PAGES
<u>PART A</u>				
Longitudinal Distribution of Orbiter Fuselage Pressures-Mach 5	Fuselage	CP vs. X/L	DELTA _X , DELTA _Z , Y/B, α_B	1-248
Longitudinal Distribution of Orbiter Upper Wing Pressures-Mach 5	Upper Wing	CP vs. X/L	DELTA _X , DELTA _Z , Y/B, α_B	249-496
<u>PART B</u>				
Longitudinal Distribution of Orbiter Lower Wing Pressures-Mach 5	Lower Wing	CP vs. X/L	DELTA _X , DELTA _Z , Y/B, α_B	497-992
Radial Distribution of Orbiter Base Pressures-Mach 5	Base	CP vs. θ	DELTA _X , DELTA _Z , α_B	993-1116



NOTE: Tap numbers in parentheses with solid symbols are on upper side of wing.

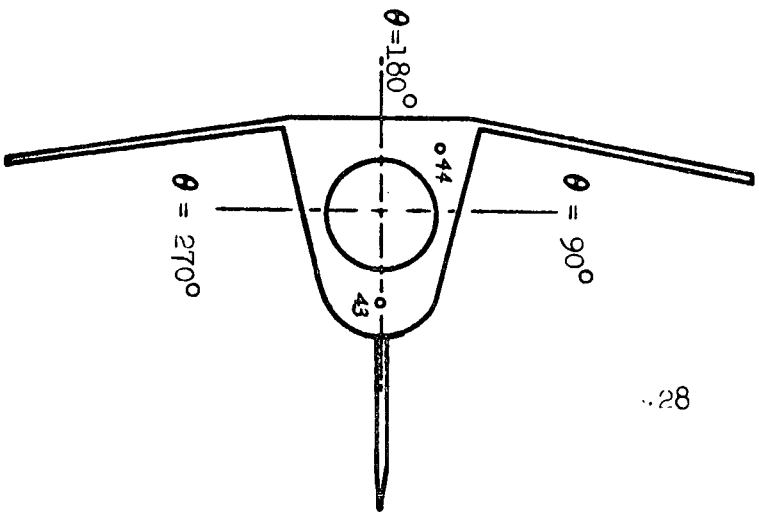
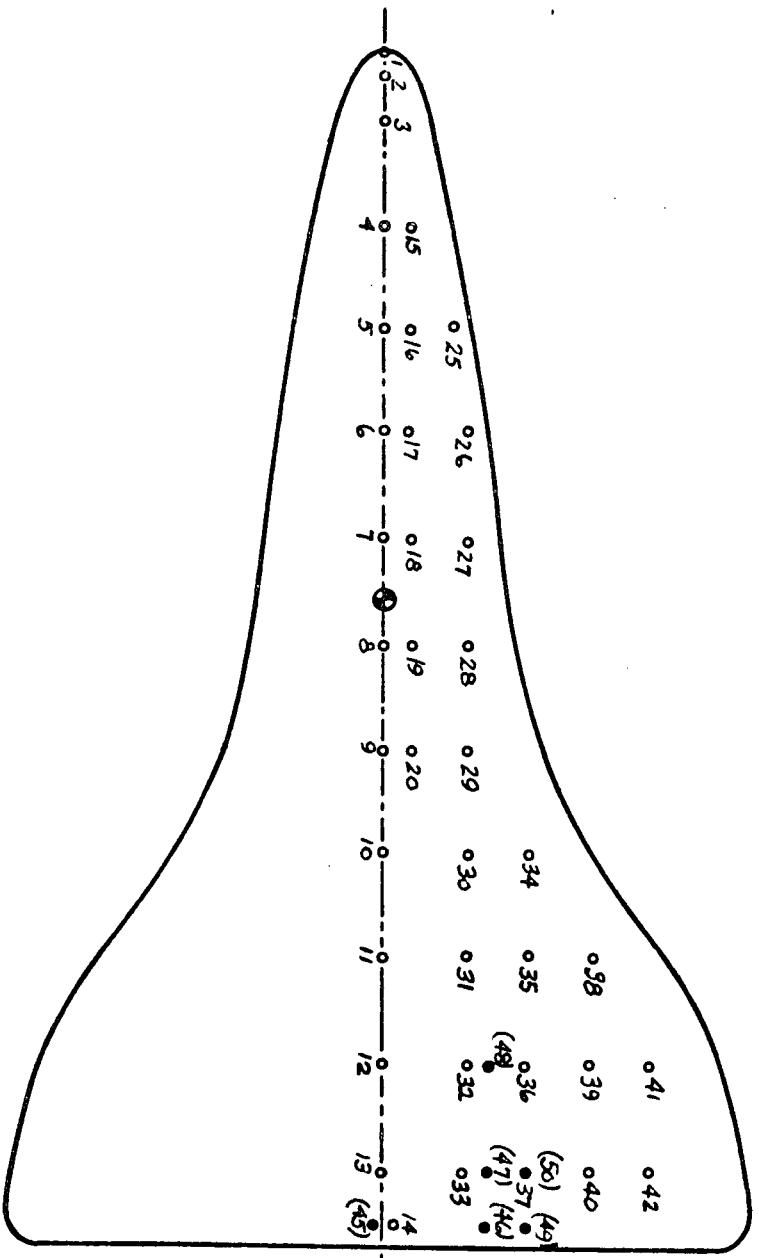


Fig. 1. - Pressure Tap Layout - Orbiter

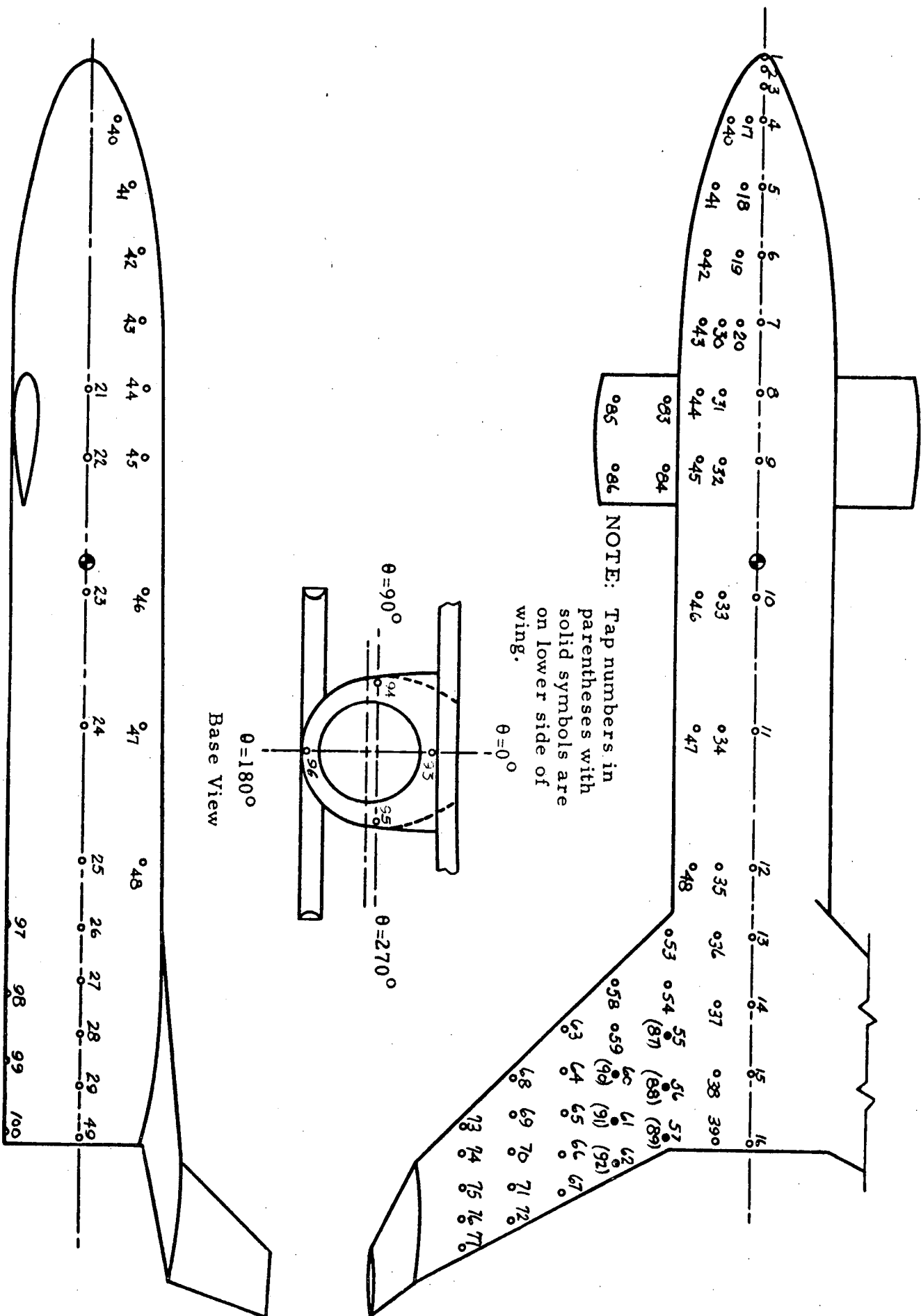


Fig. 2 - Pressure Tap Layout - Booster

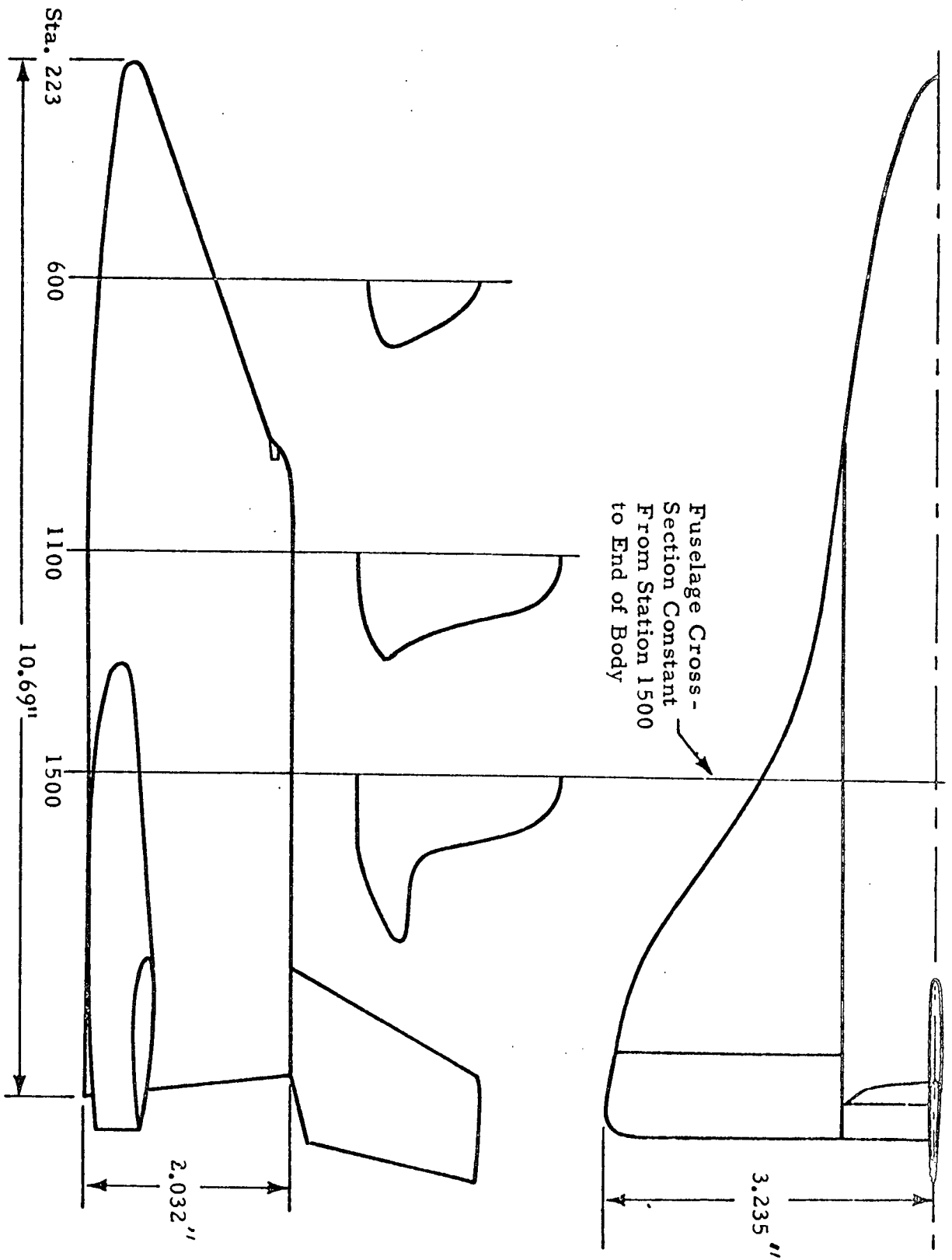


Fig. 3 - Modifications to Orbiter Model

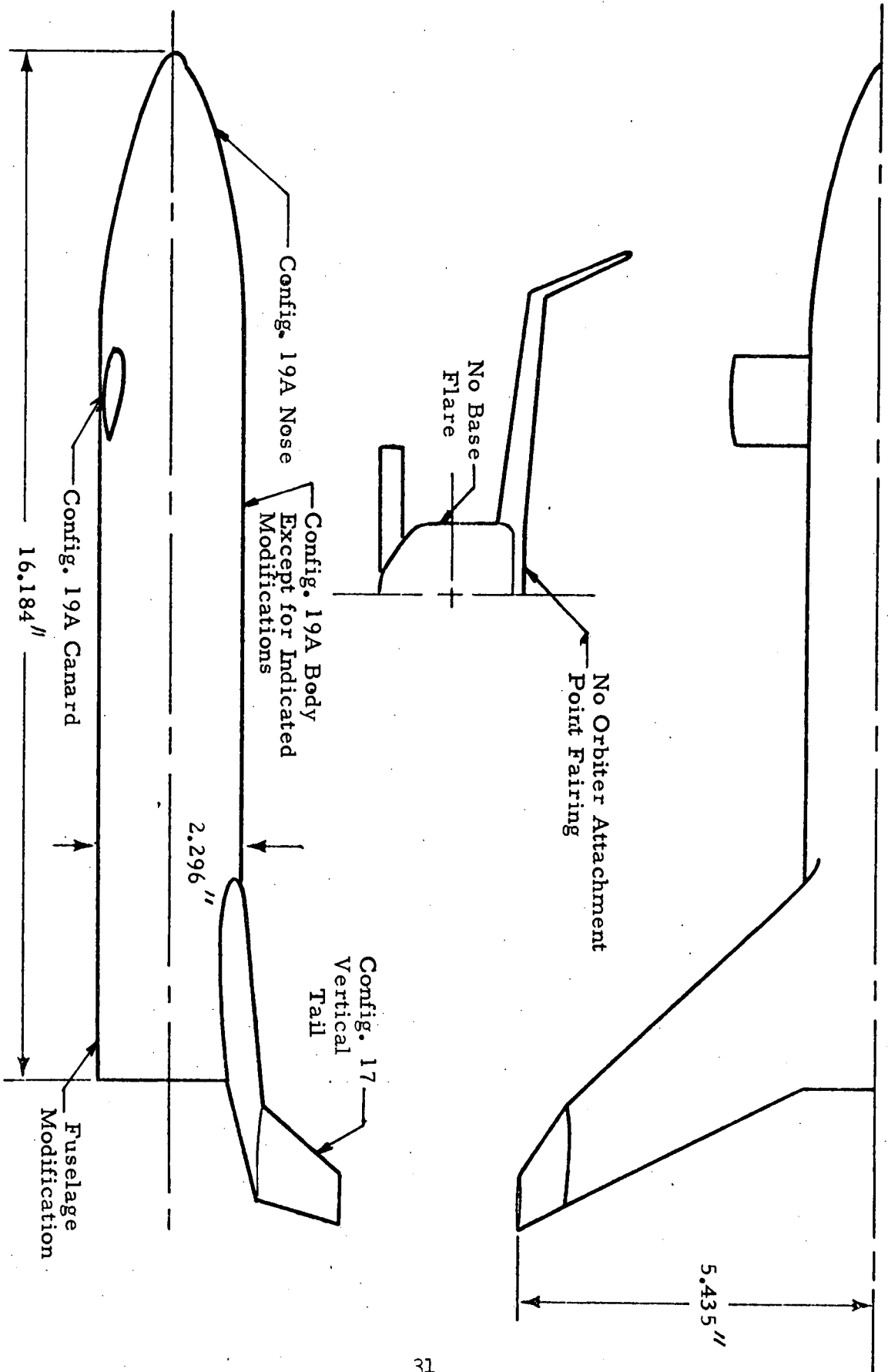


Fig. 4 - Modifications to Booster Model

40-INCH SUPERSONIC TUNNEL A

Scale - 1/5

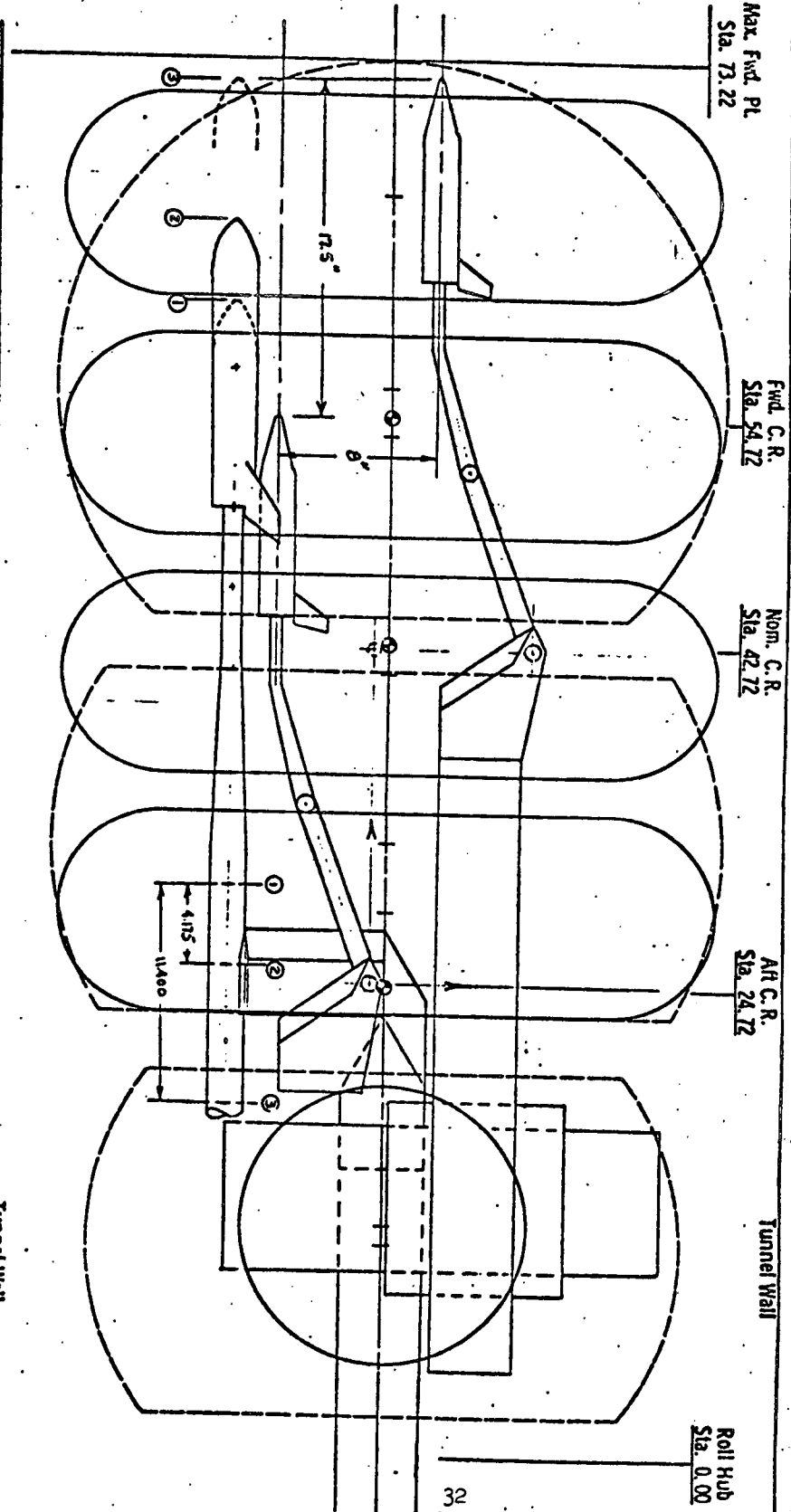
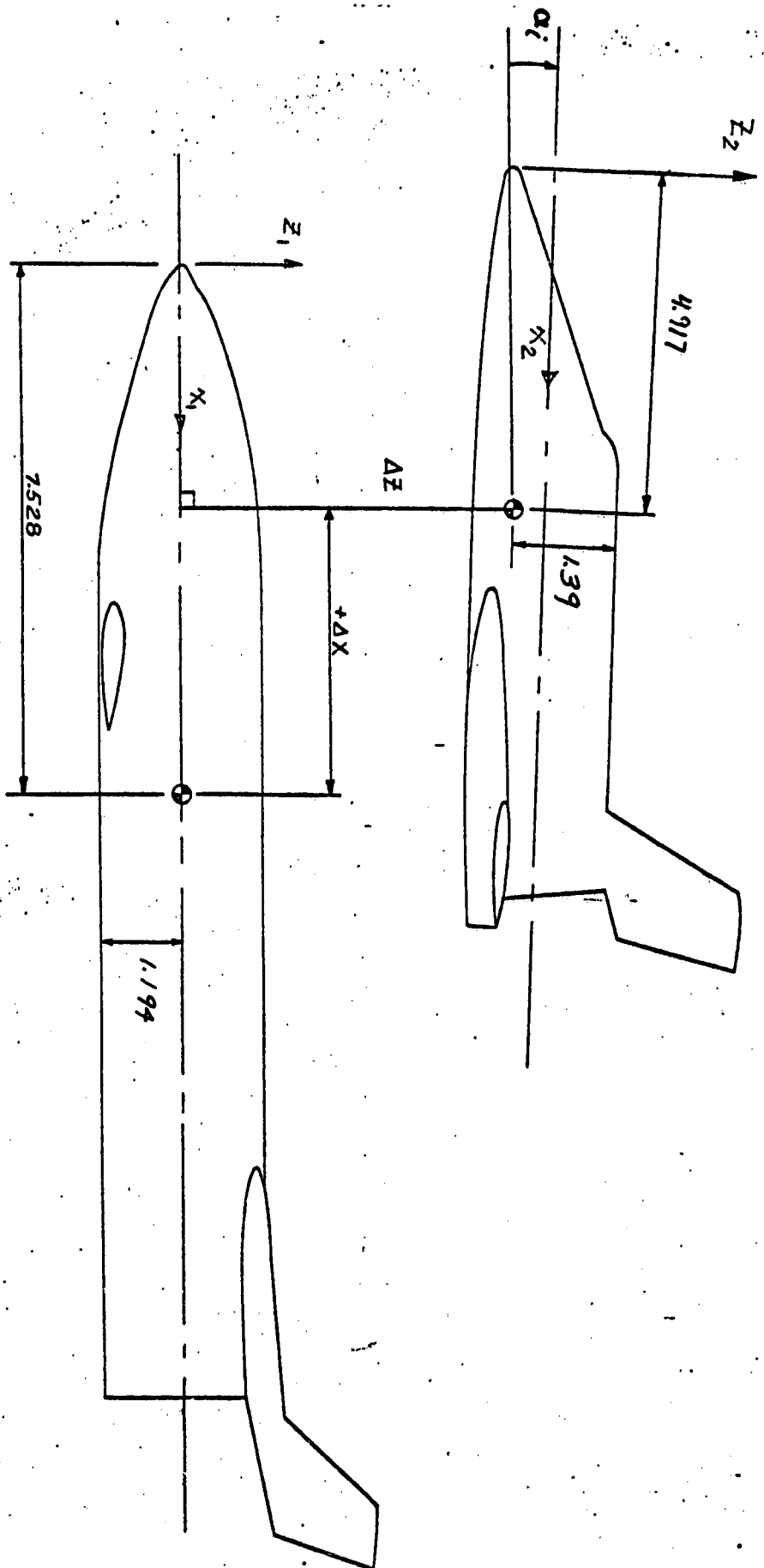


Figure 5 - General arrangement of models in tunnel

—— High Temperature Windows
 - - - - Low Temperature Windows

Tunnel Wall

Pin A



All dimensions are model scale, in inches.

Figure 6. Separation Nomenclature and Center of Gravity Locations

U.S. AIR FORCE PHOTO-AEDC
AED INC. OPERATING CONTRACTOR
ANNAPOLIS A.P. STATION 105M.
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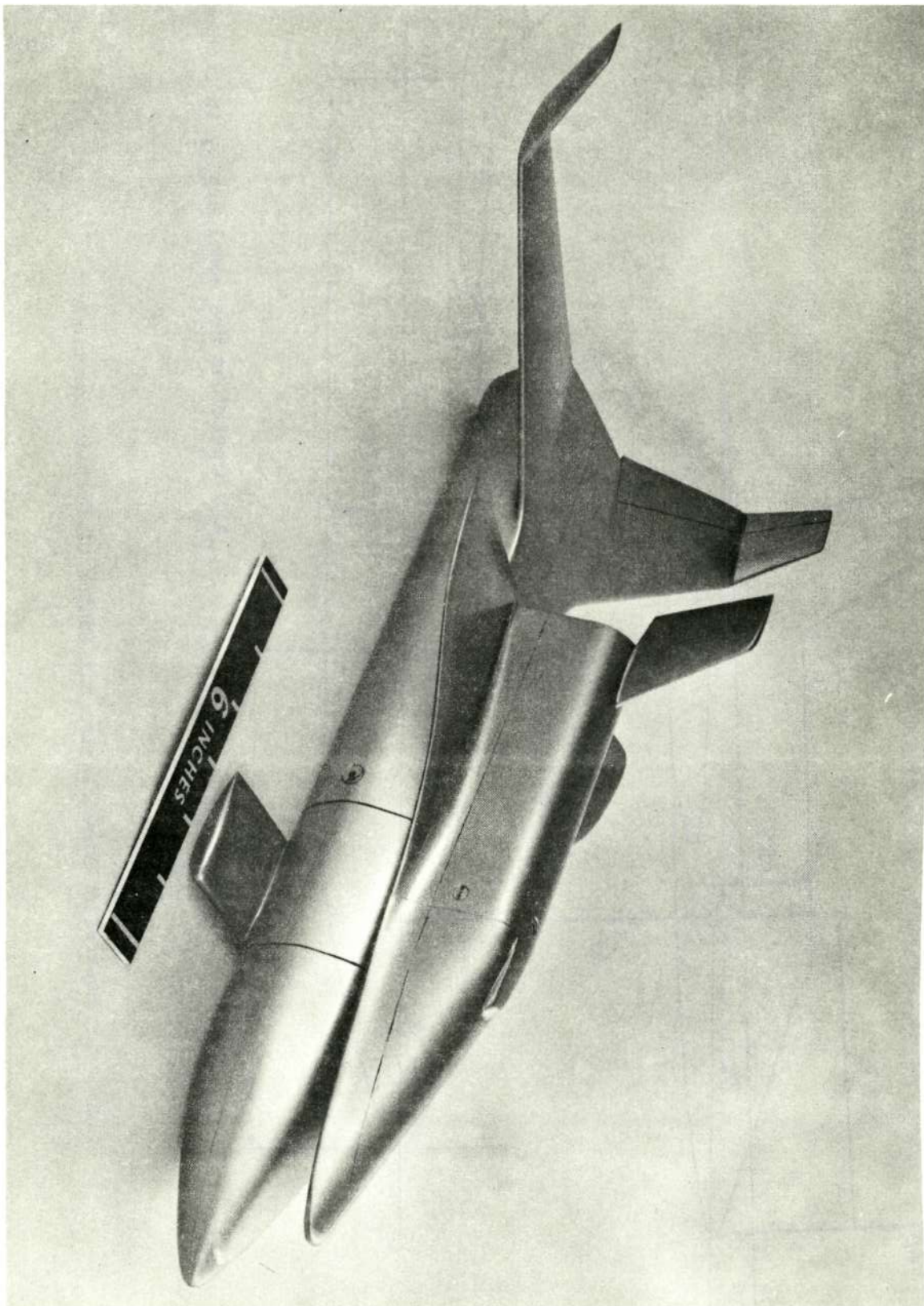


Figure 7. Photograph of MDAC Booster and Orbiter Models

1974

3-22-71) VA1163 NASA - SPACE SHUTTLE

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AND OPERATIONAL CONTRACTOR
ARMED A.F. DIVISION TECH.

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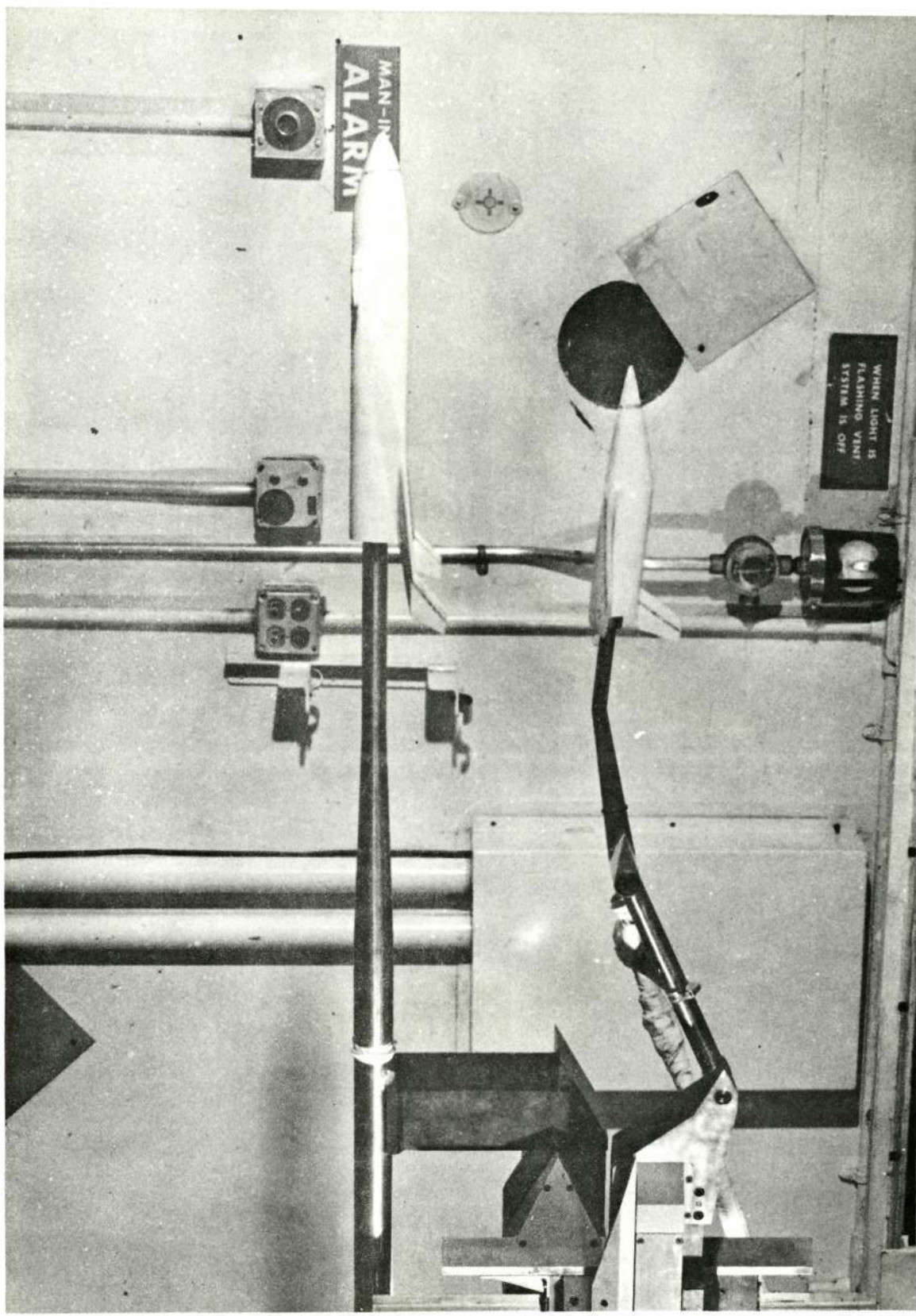


Figure 8, Photograph of Side View of Models and Separation Hardware

3197

(4-27-71) VALIDS NASA 515

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AND INC. OPERATING CONTRACTOR
ARNOLD A.F. STATION TSN.

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prior written approval of the responsible
Air Force Office of Information.

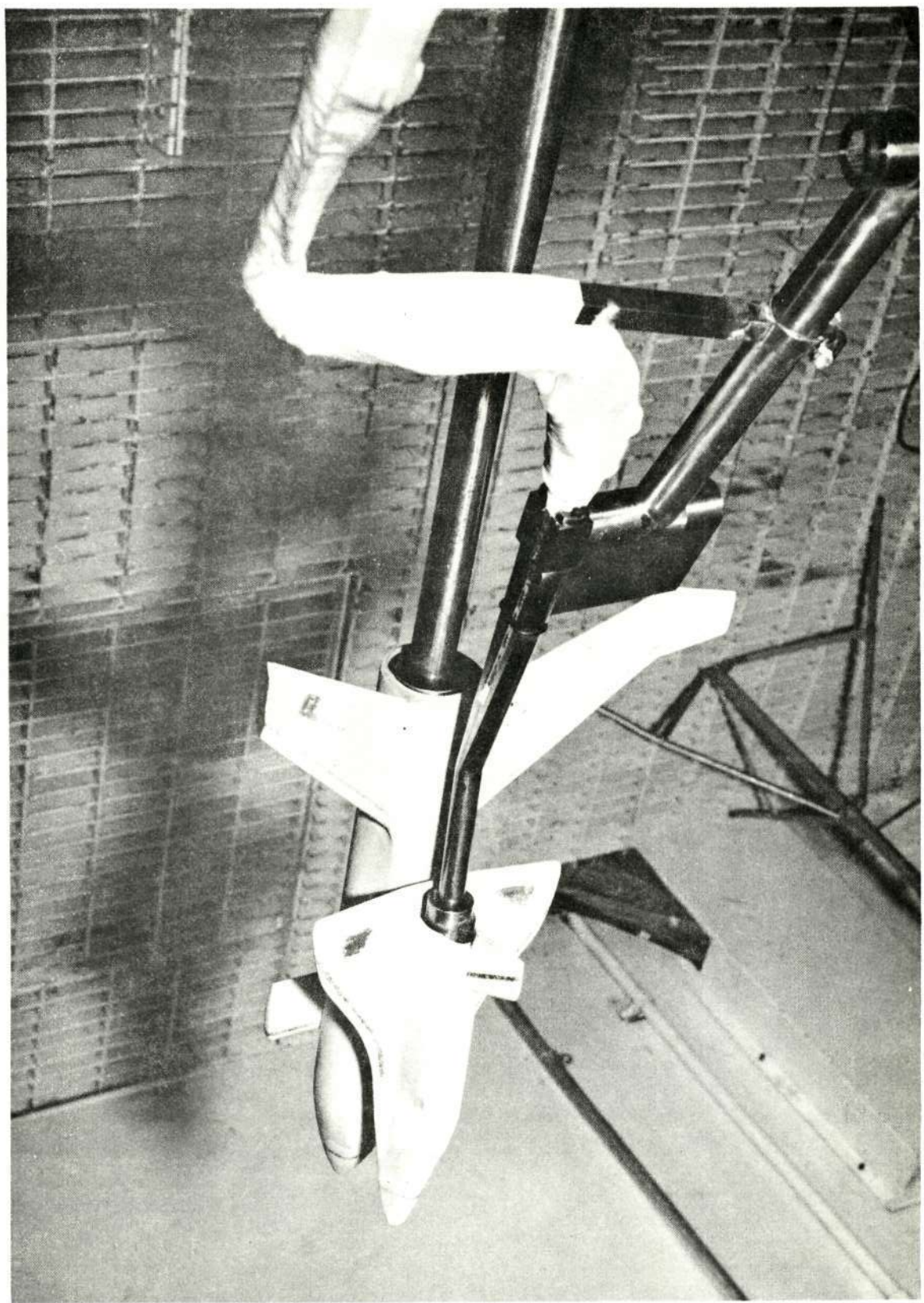


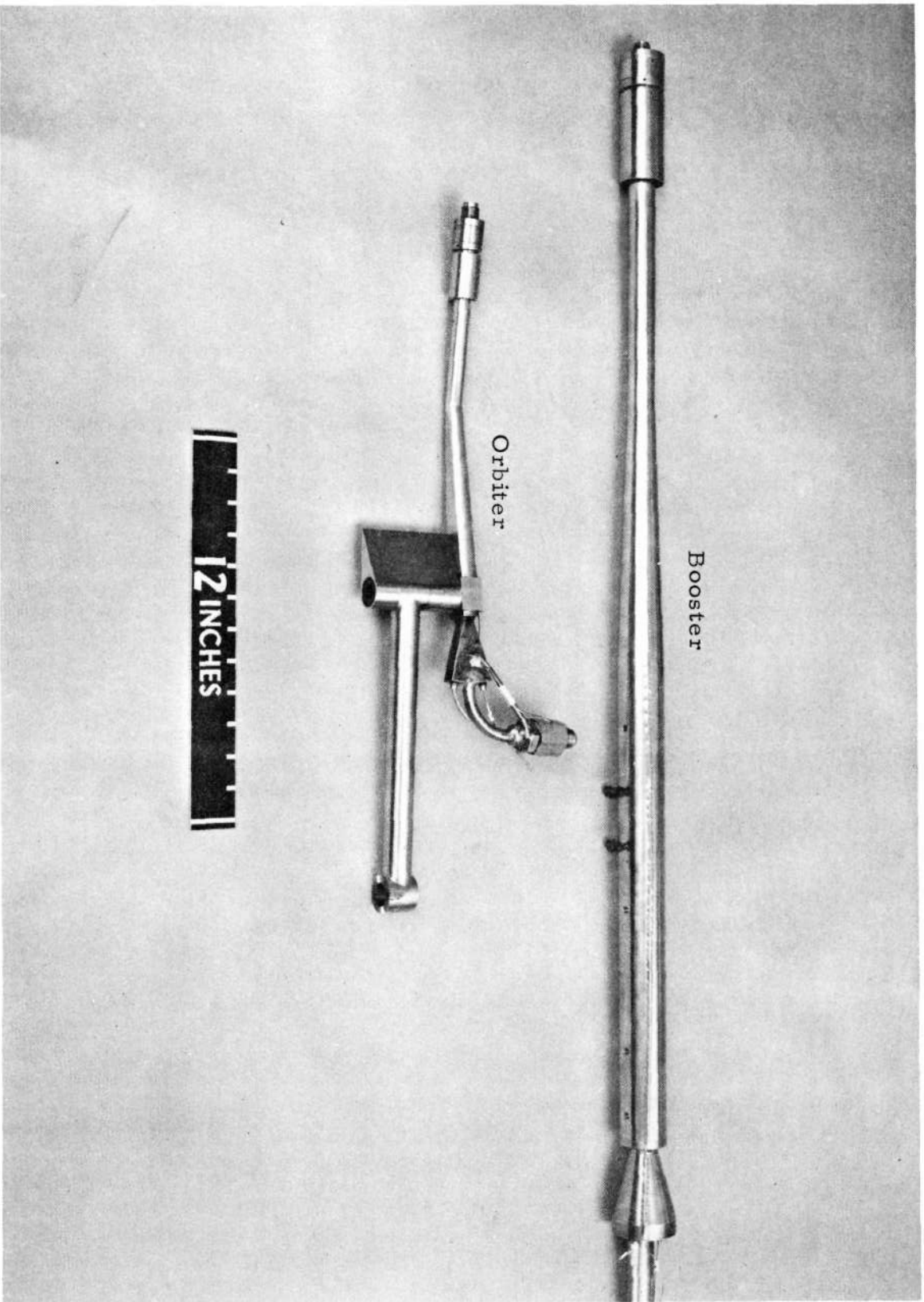
Figure 9. Photograph of Top View of Models and Associated Separation Hardware

3199

(4-27-71) VA1163 NASA STS

U.S. AIR FORCE PHOTO-AEDC
ARNDT PHOTOGRAPHY
RANDOLPH A.F. STATION TBM.

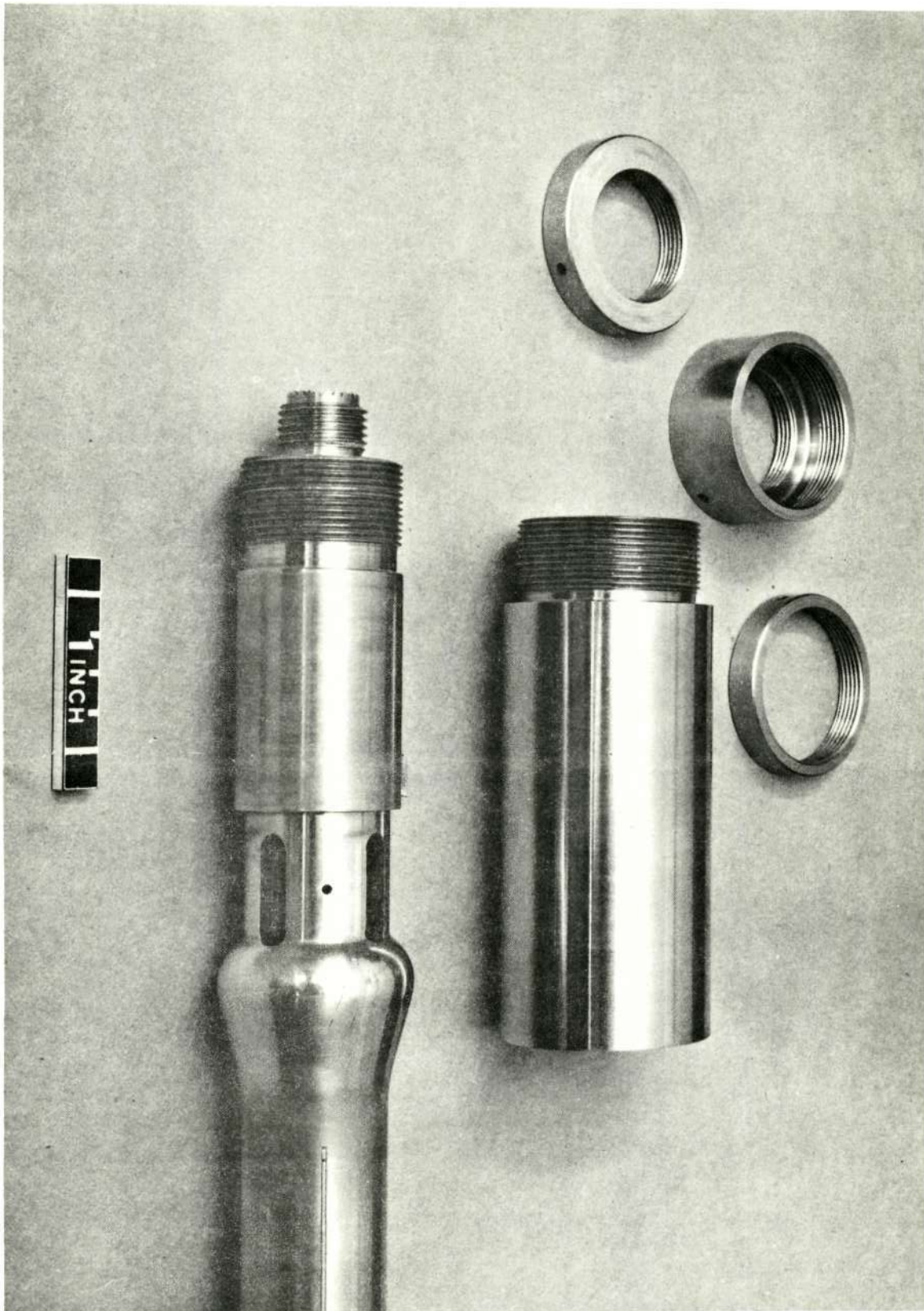
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prior written approval of the responsible
Air Force Office of Information.



3901 (5-14-71) VALLIS SPACE SHUTTLE NOZZLES
Figure 10. Photograph of Booster and Orbiter Sting Nozzle Hardware

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AND INC. OPERATING CONTRACTOR
AMHOLD A.F. STATION TEXAS.

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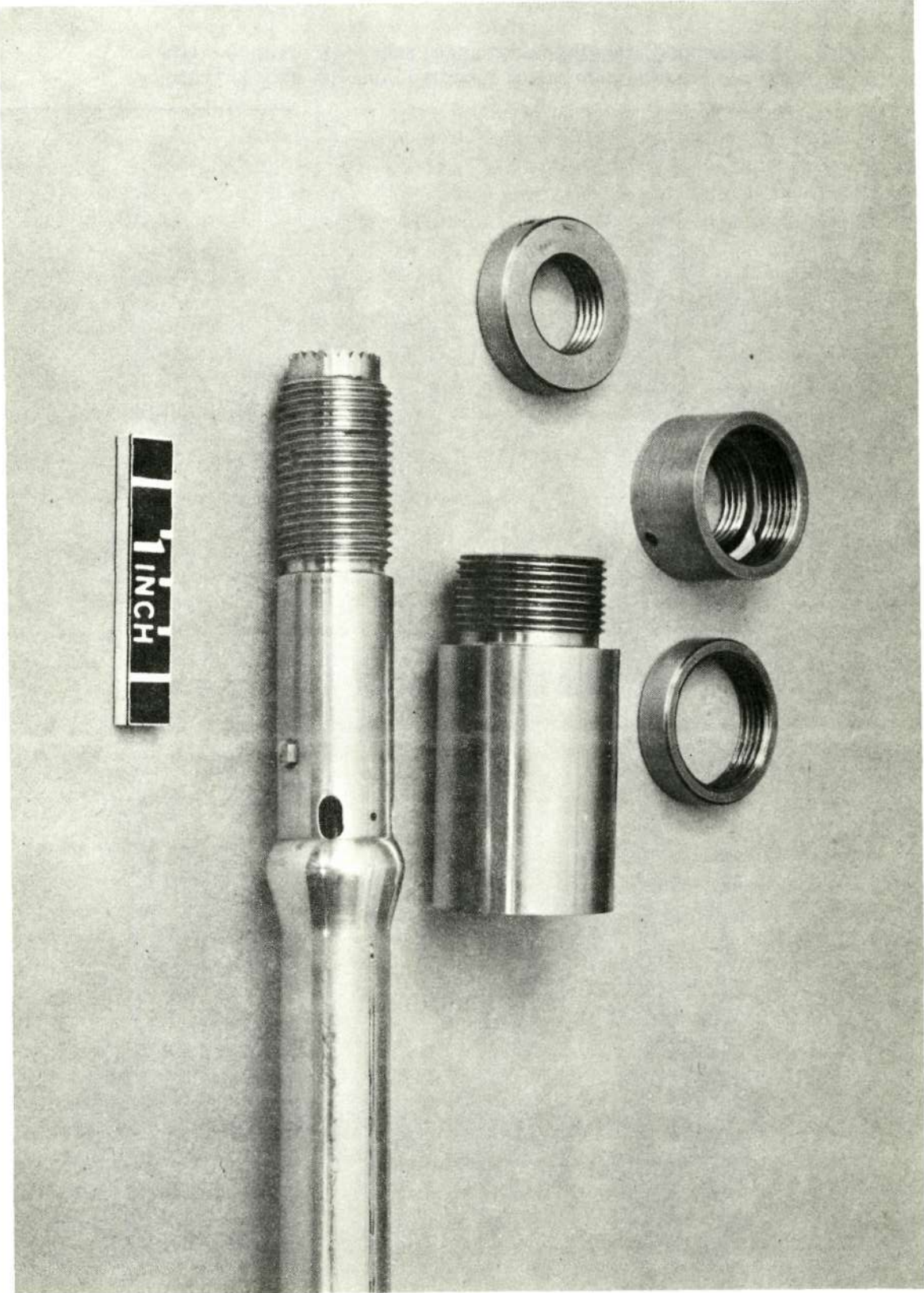


3895

(5-14-71) VALI63 SPACE SHUTTLE NOZZLES

Figure 11. Photograph of Booster Nozzle Hardware

U.S. AIR FORCE PHOTO-AEDC AND INC. OPERATING CONTRACTOR ABWBLD A.F. STATION 158W. Not cleared for public release without prior written approval of the responsible Air Force Office of Information.

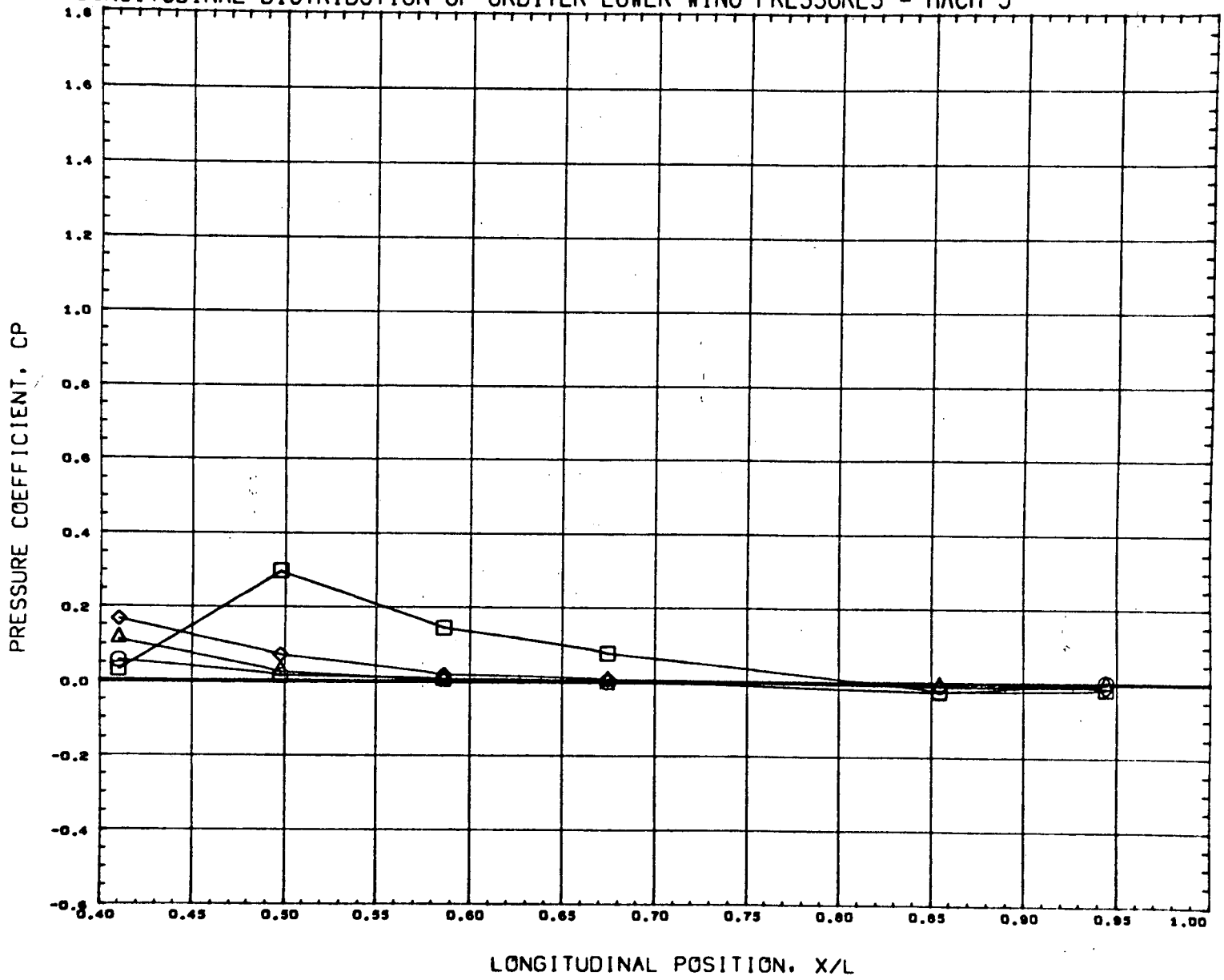


3896 (5-14-71) VAI163 SPACE SHUTTLE NOZZLES Figure 12. Photograph of Orbiter Nozzle Hardware

D A T A F I G U R E S

Tabulations of the plotted data and corresponding source data are available from SADSAC Operations.

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
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ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

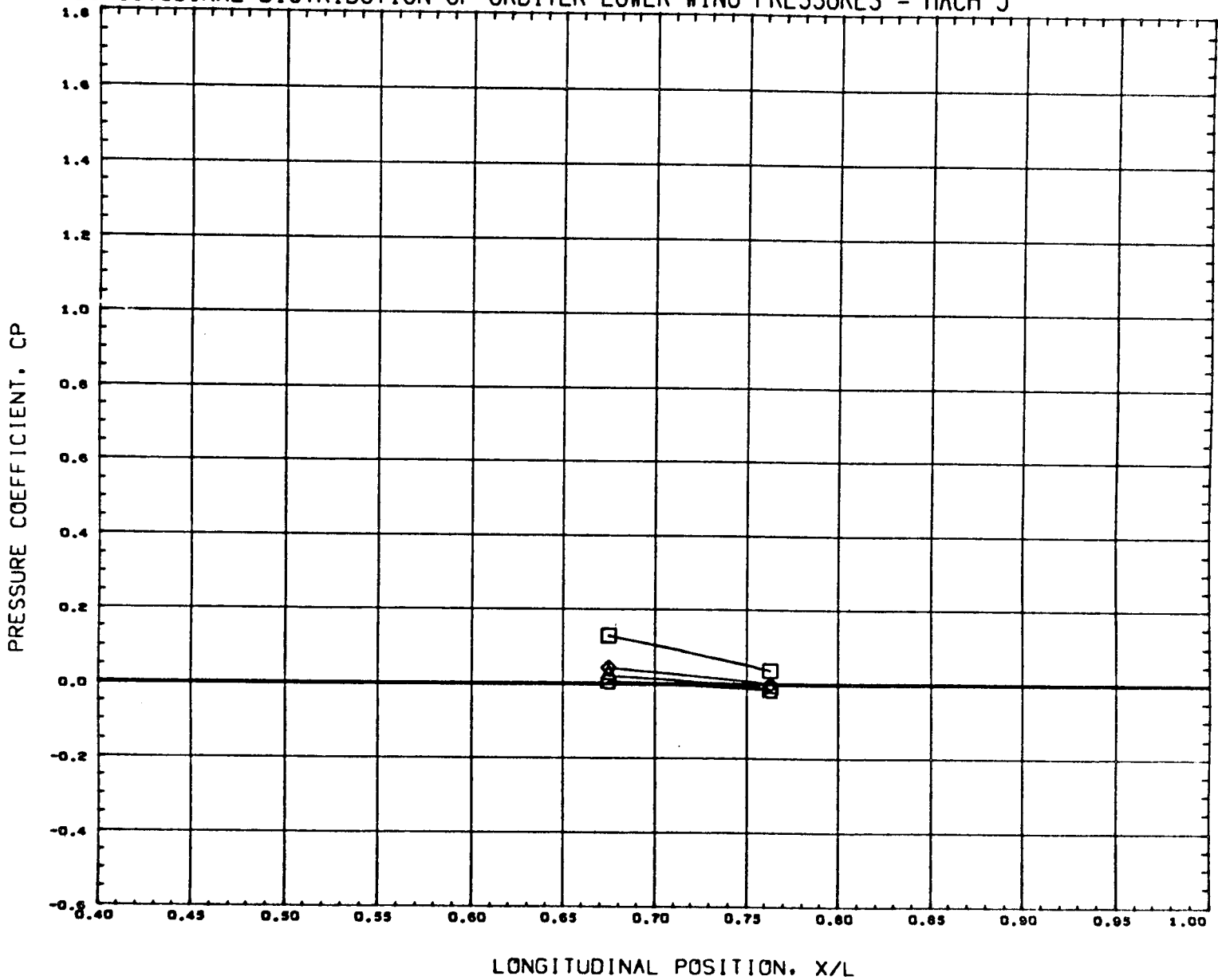
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AEOC VA1163 MDAC ORBITER (LOWER WING)

•HT8511•

PAGE 497

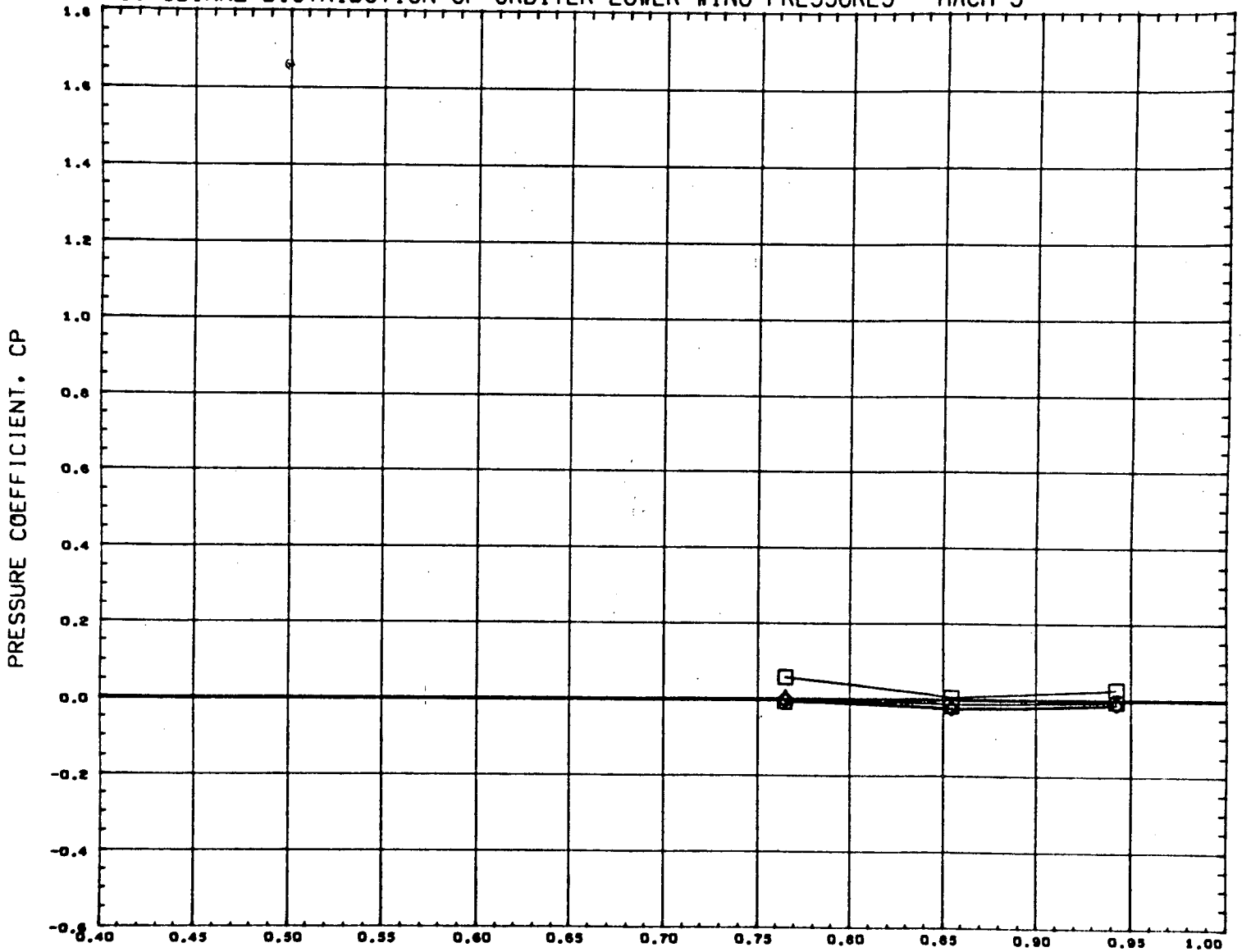
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



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◊	0.165			BSTPOW	0.000		
□	0.350						

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

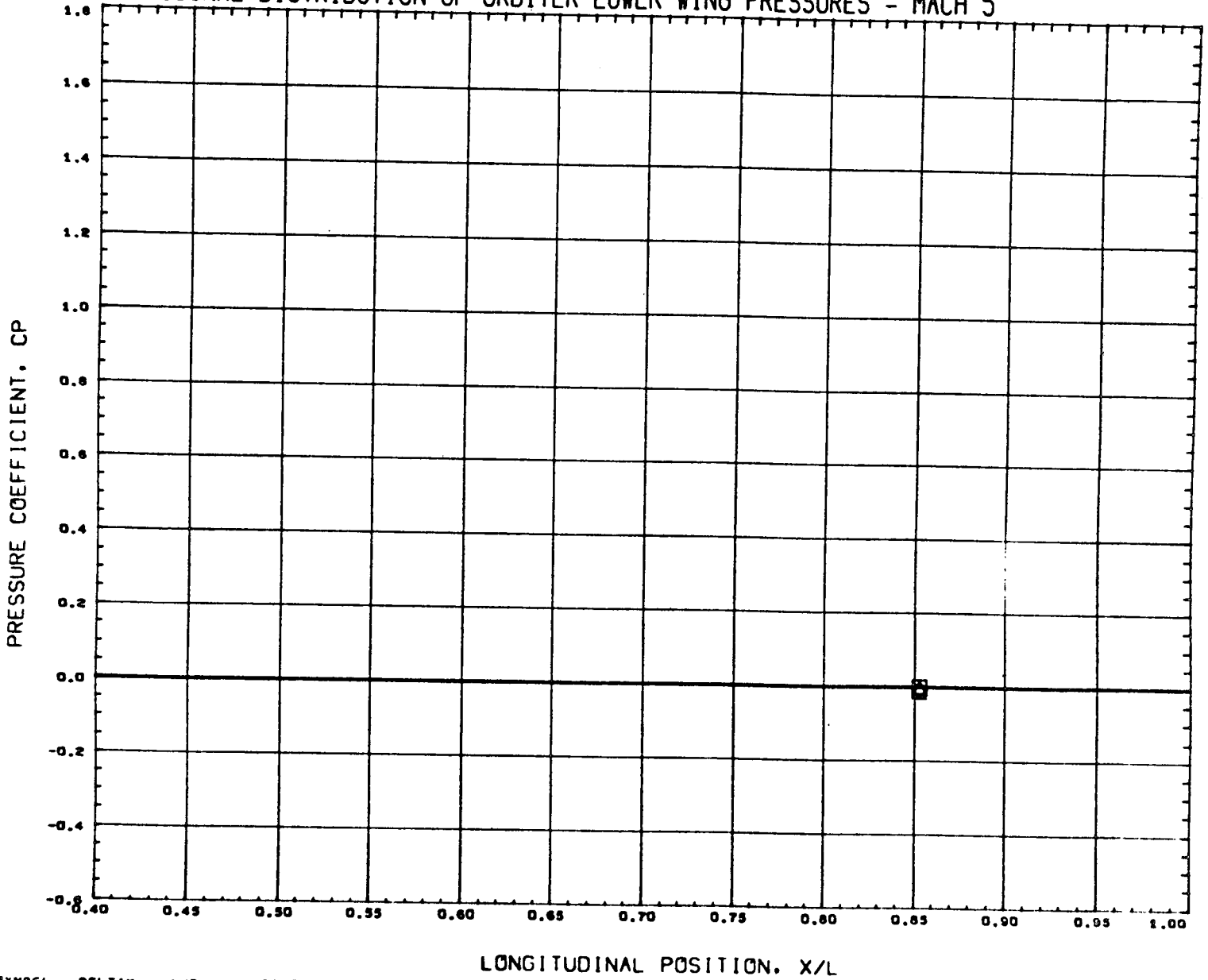


SYMBOL	DELTA X	Y/B	DELTA Z
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△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 9.009	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

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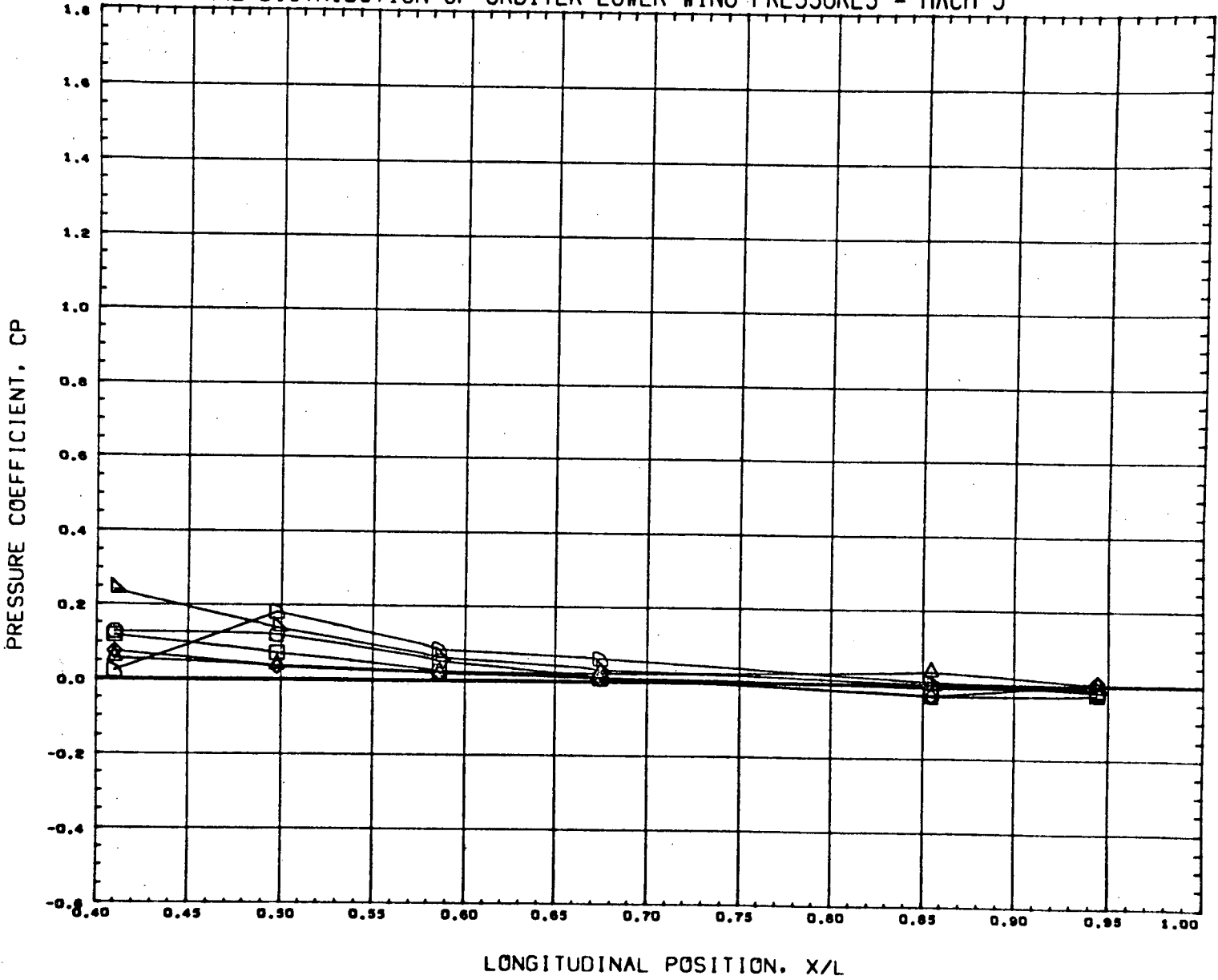


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BSTPOW	0.000		

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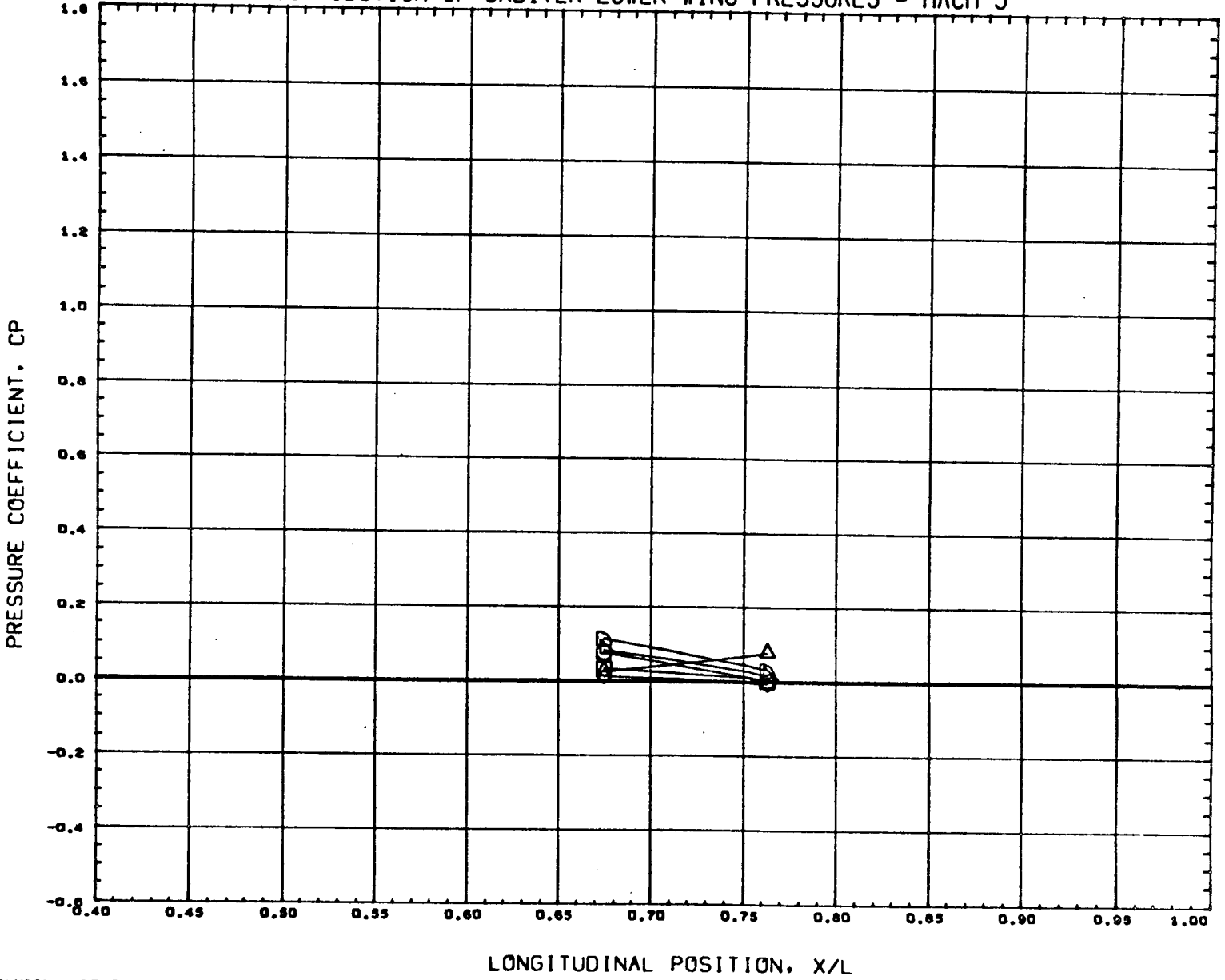
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□	0.143		
◇	0.020		
○	0.103		
◻	0.227		
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PARAMETRIC VALUES			
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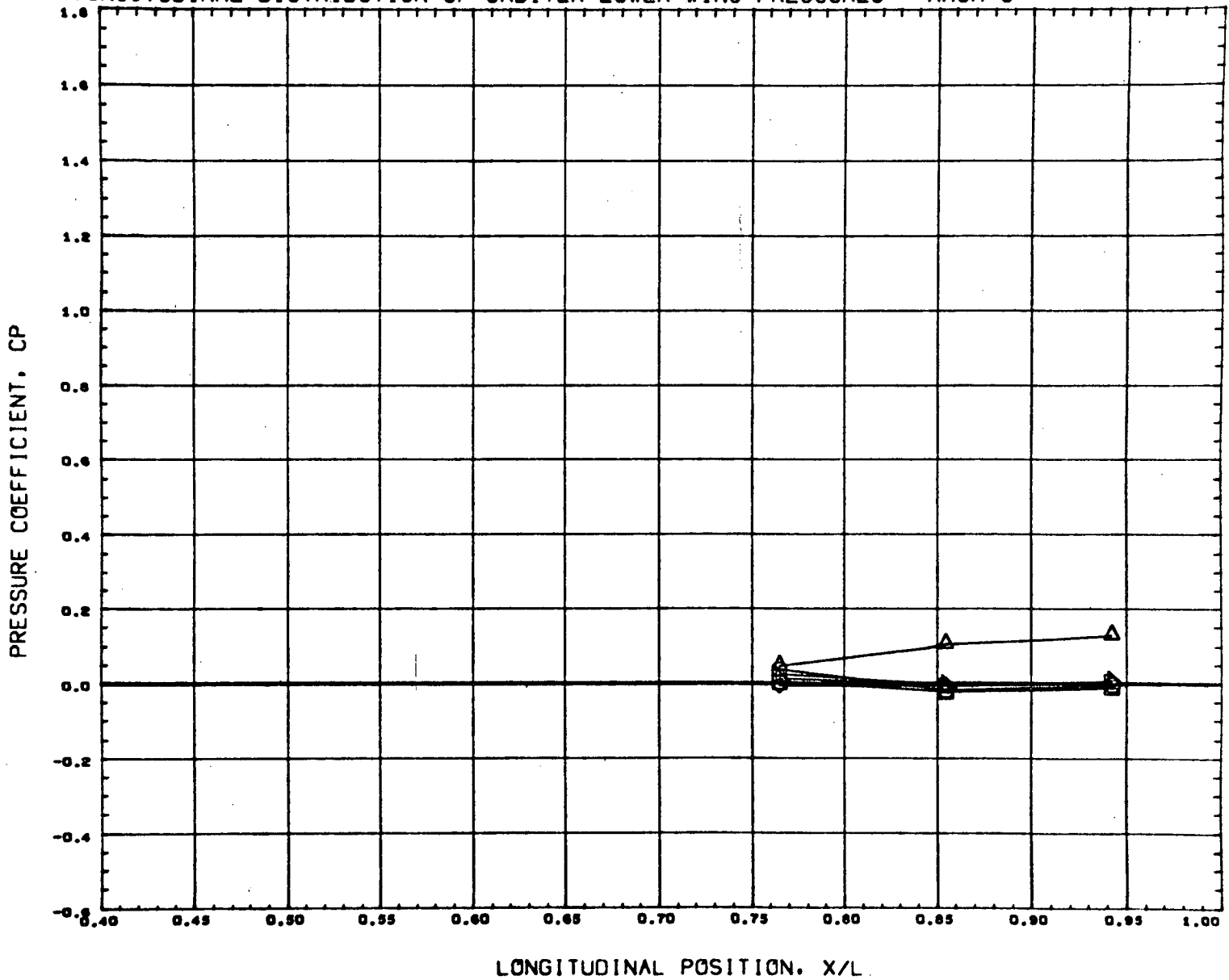


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○	0.143		
○	0.020		
○	0.103		
○	0.227		
○	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
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BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

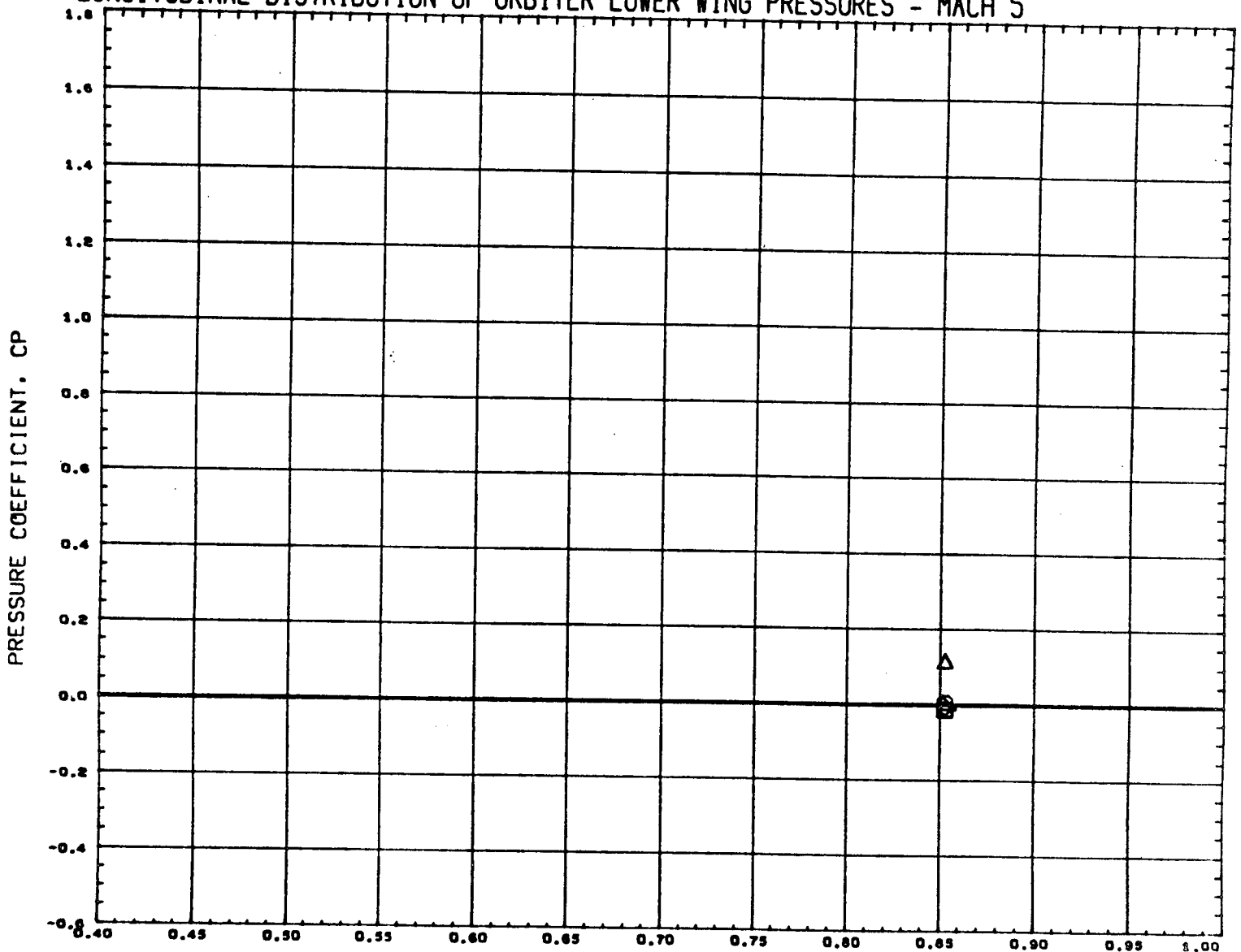


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△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
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BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



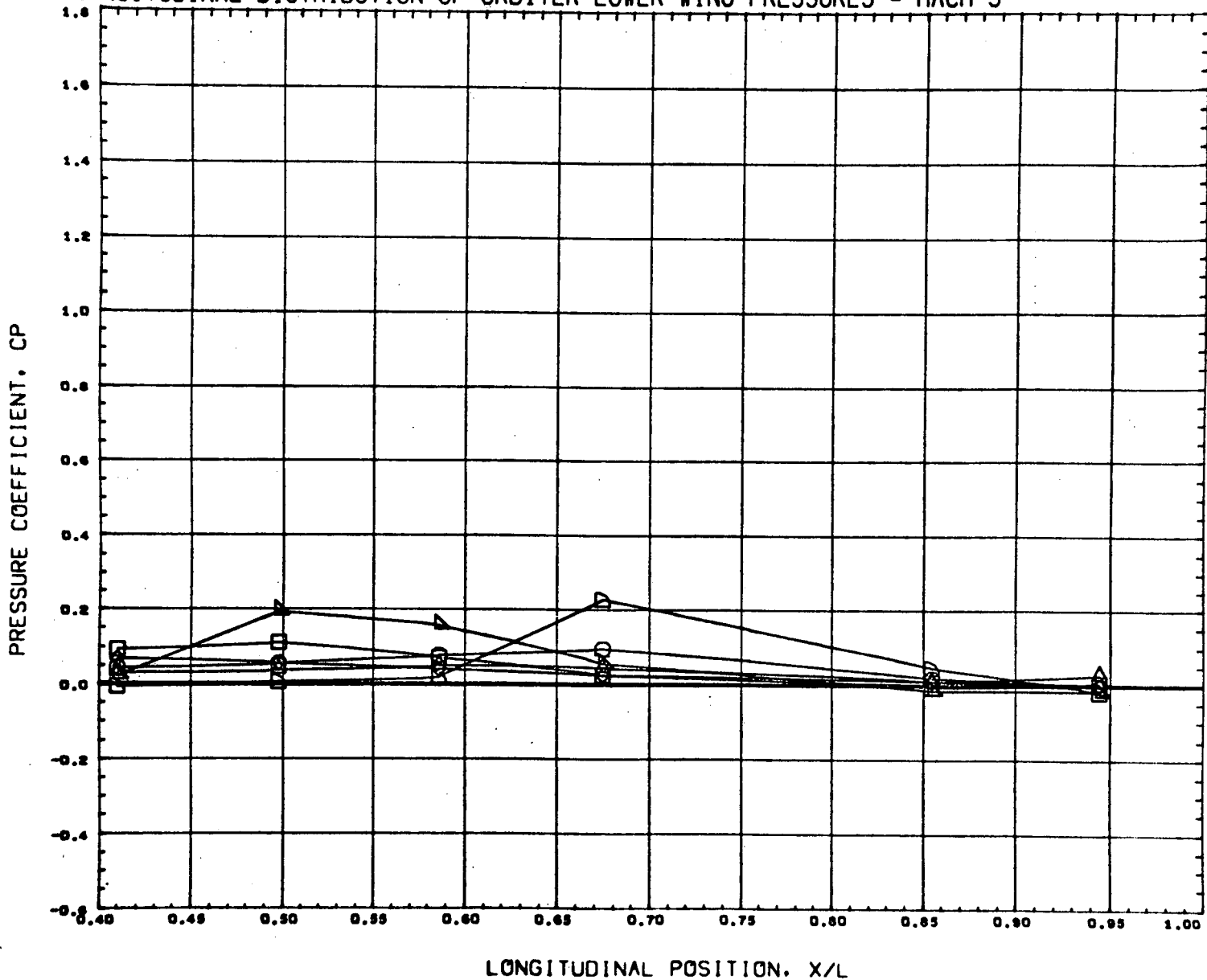
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
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◇	0.020		
□	0.103		
◇	0.227		
□	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

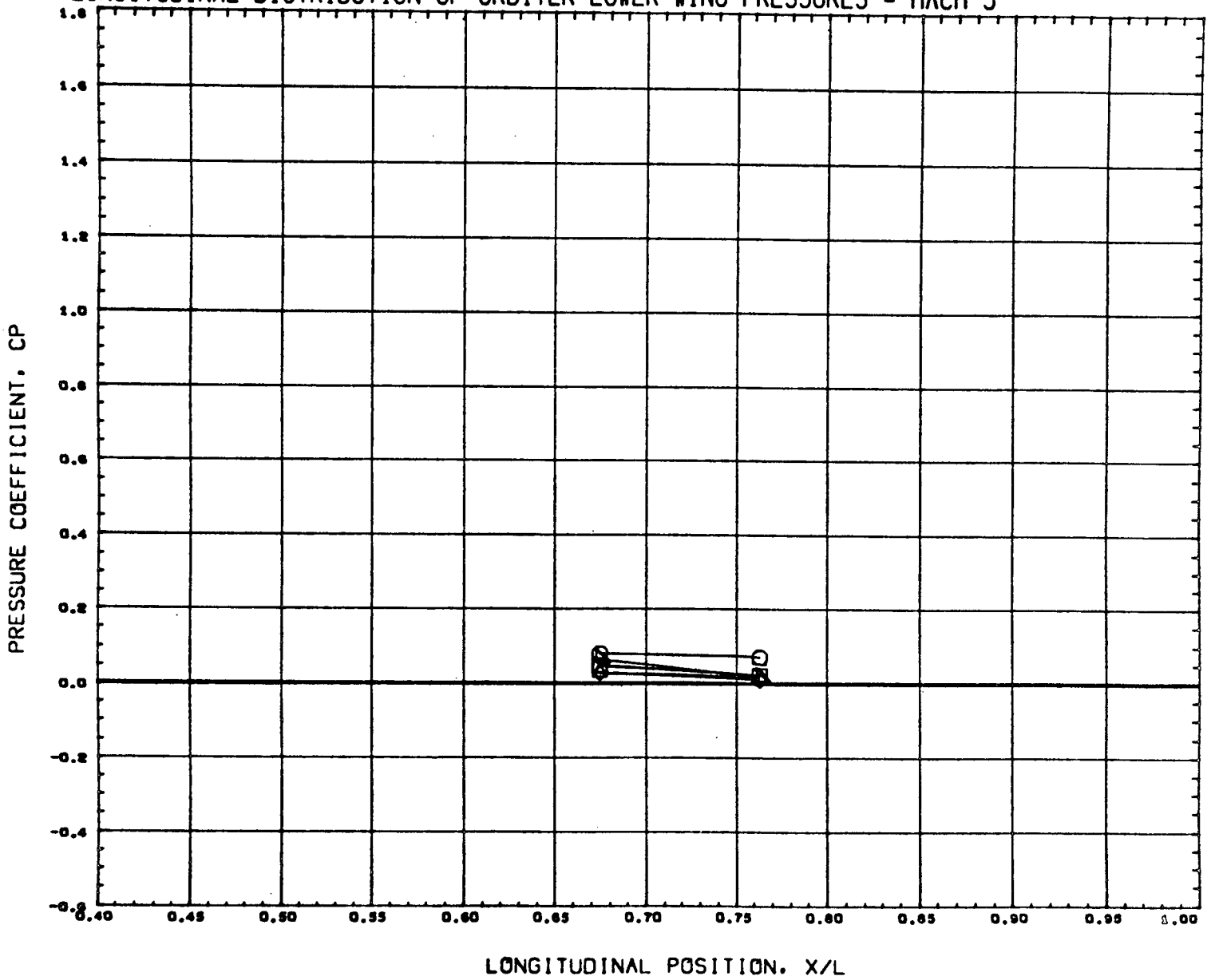


SYMBOL	DELTA X	Y/B	DELTA Z
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◇	0.143		
△	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
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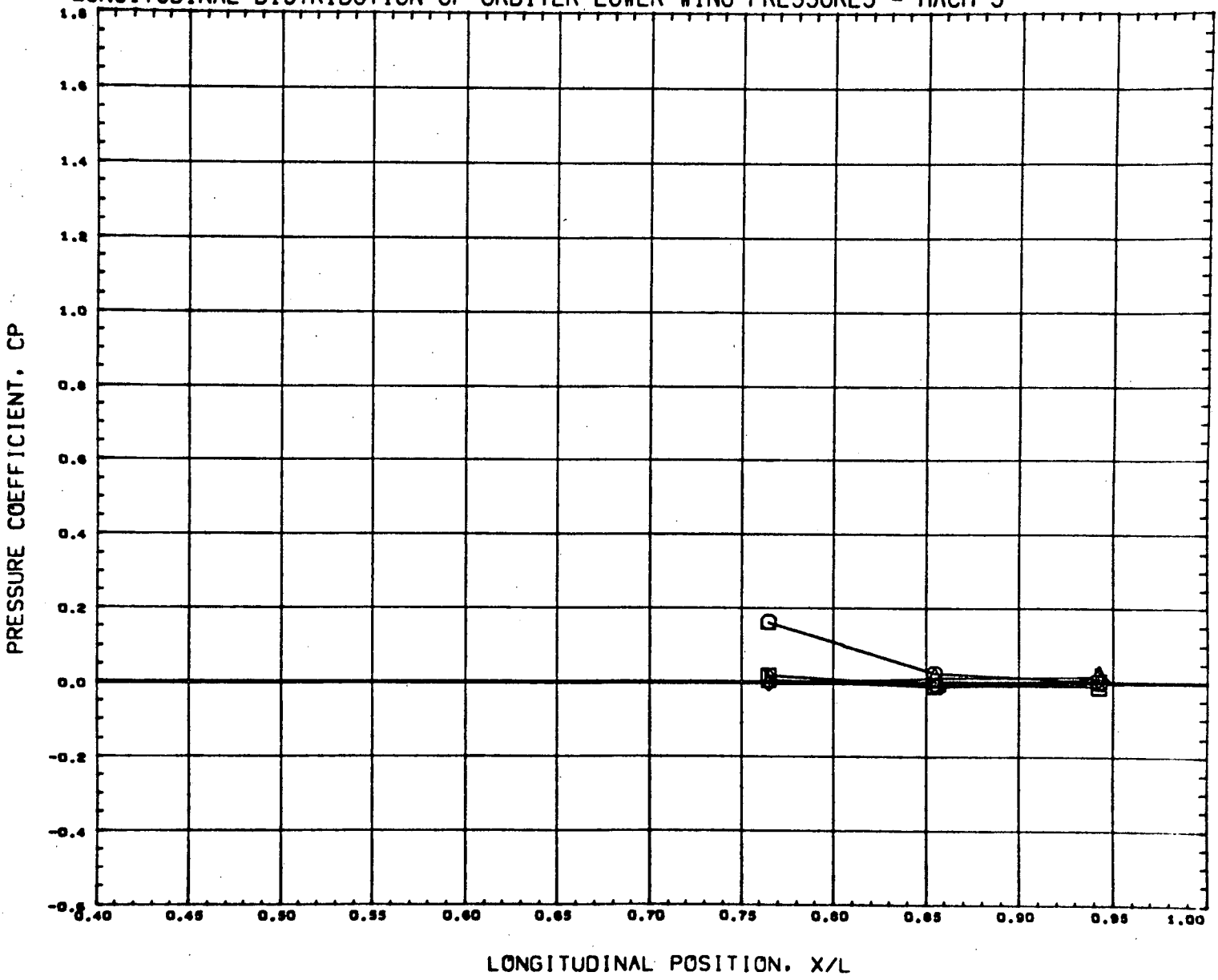
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SYMBOL	DELTA X	Y/B	DELTA Z
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◇	- 0.020		
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◇	0.227		
◇	0.390	REFERENCE FILE	

PARAMETRIC VALUES			
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ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



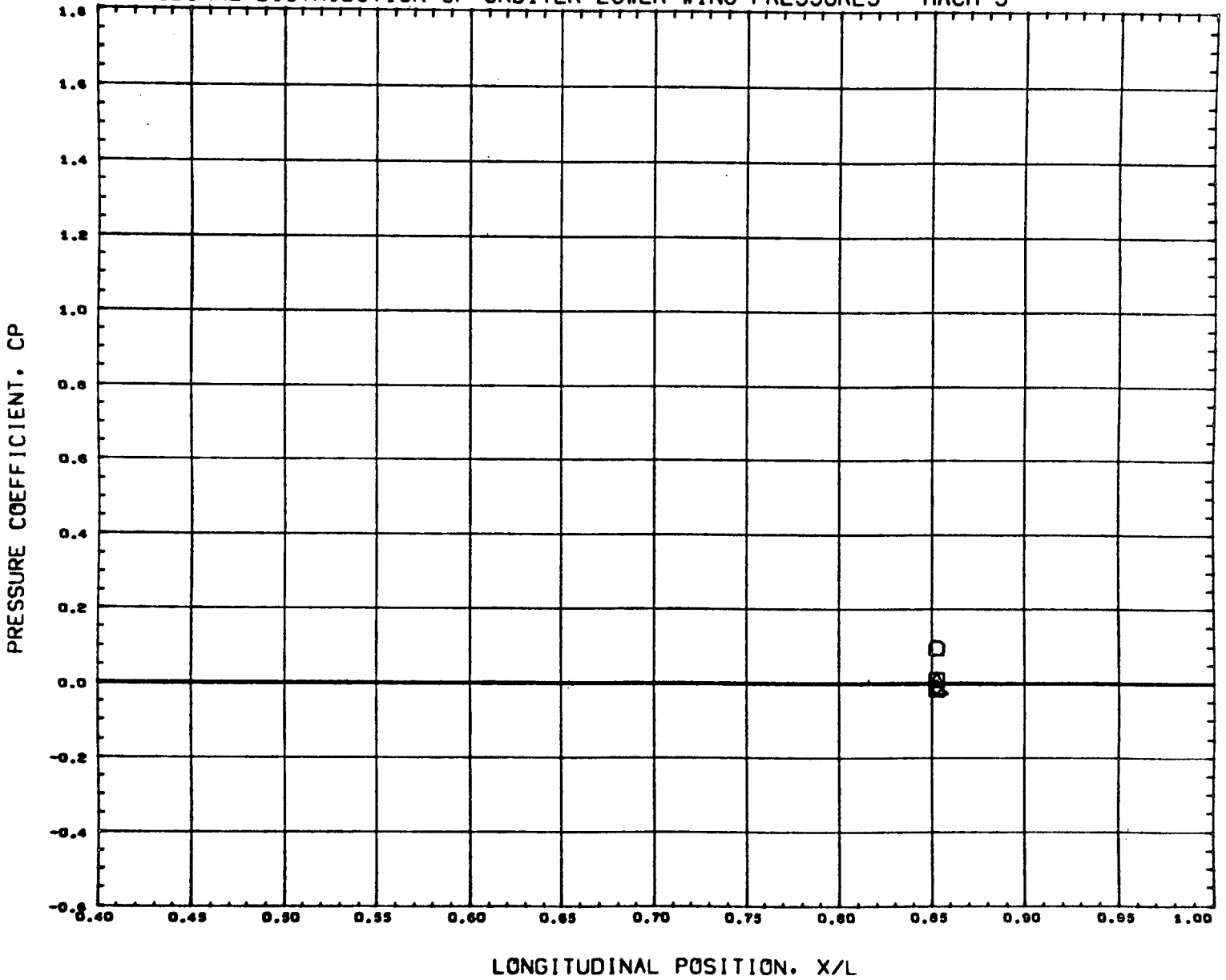
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
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◇	0.143		
△	0.020		
	0.103		
	0.227		
	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
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ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

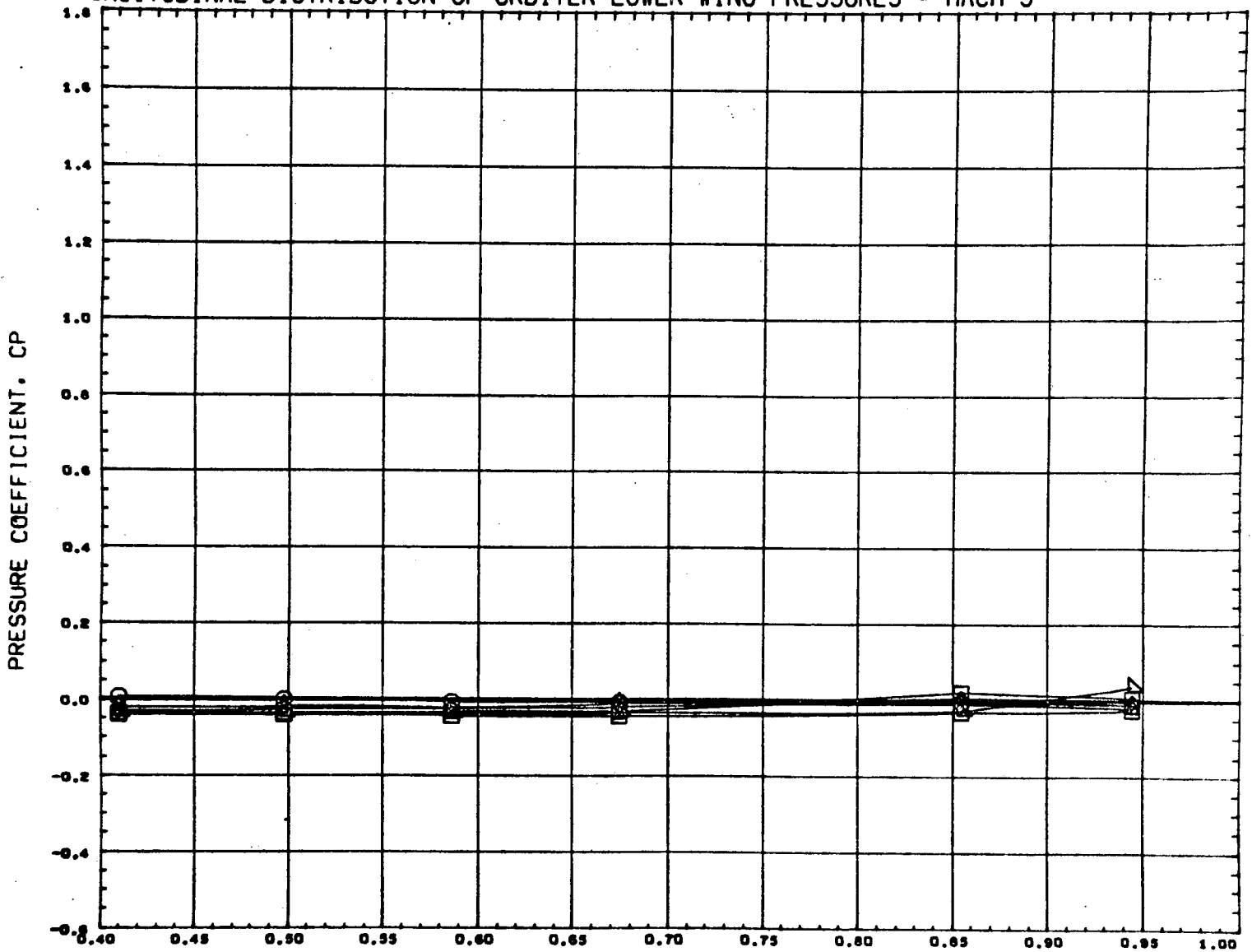
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
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◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
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ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



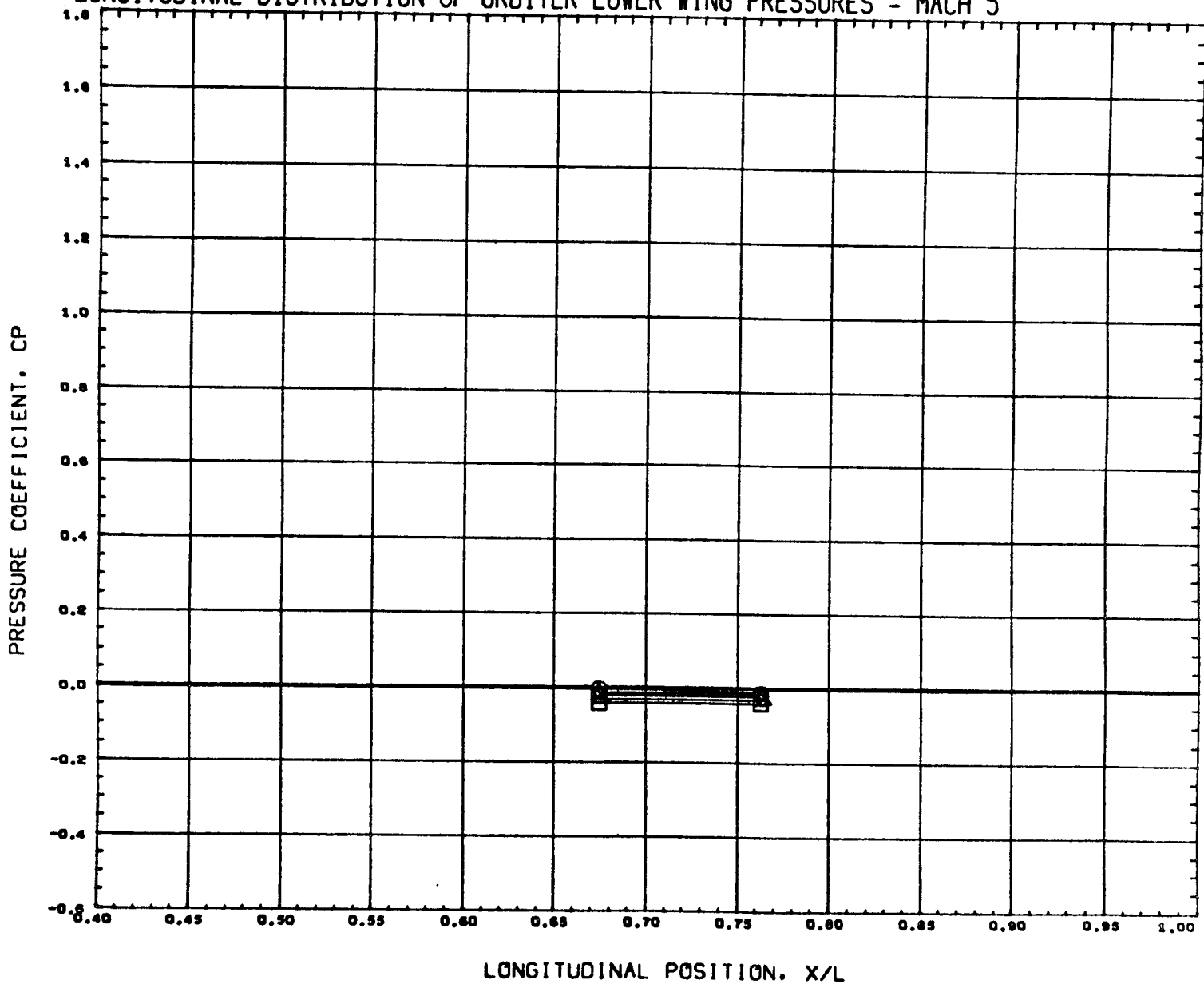
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.230	0.228
◇	0.143		
△	0.020		
○	0.103		
◇	0.227		
△	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	9.909	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

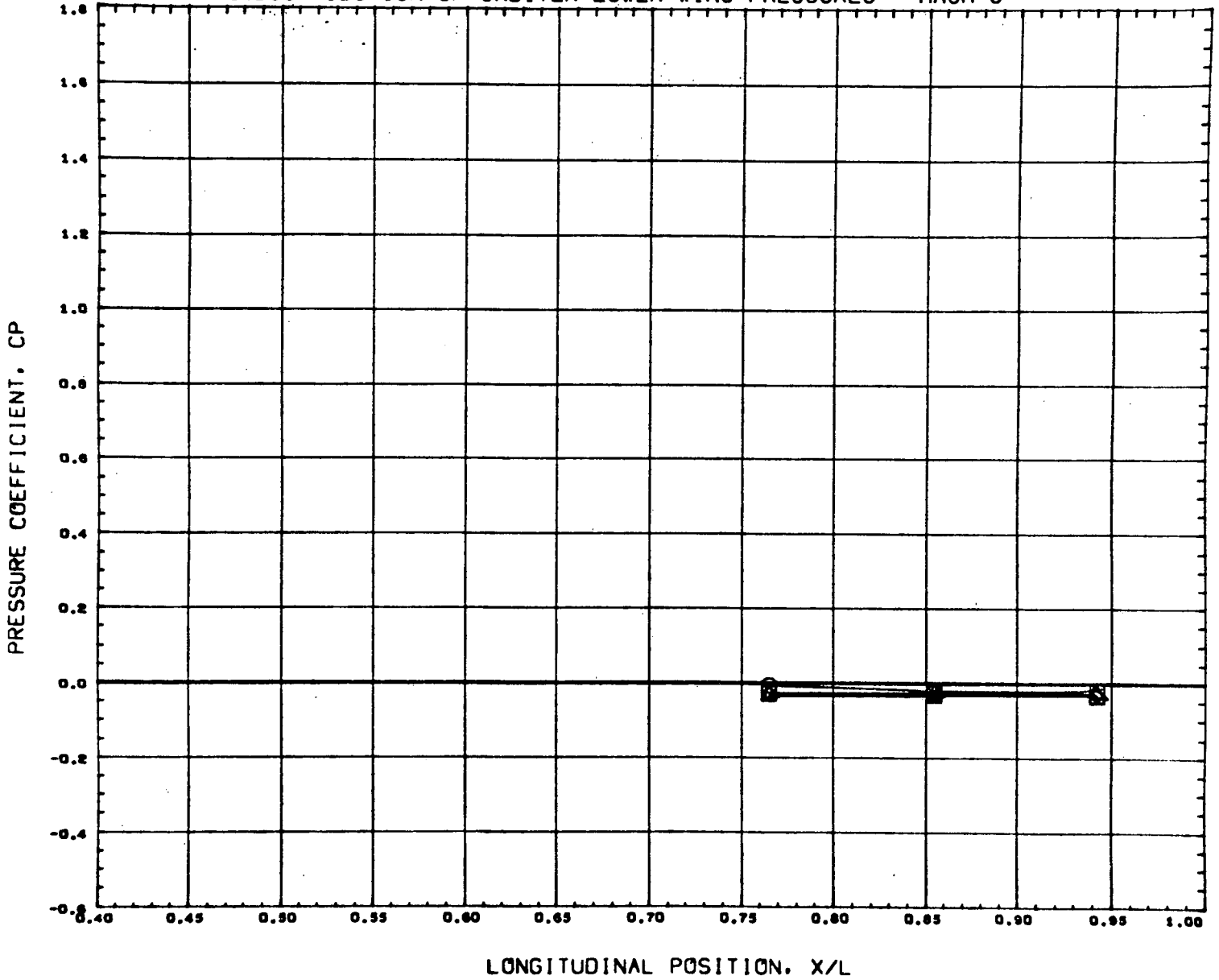


SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.399	0.226
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 9.909	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

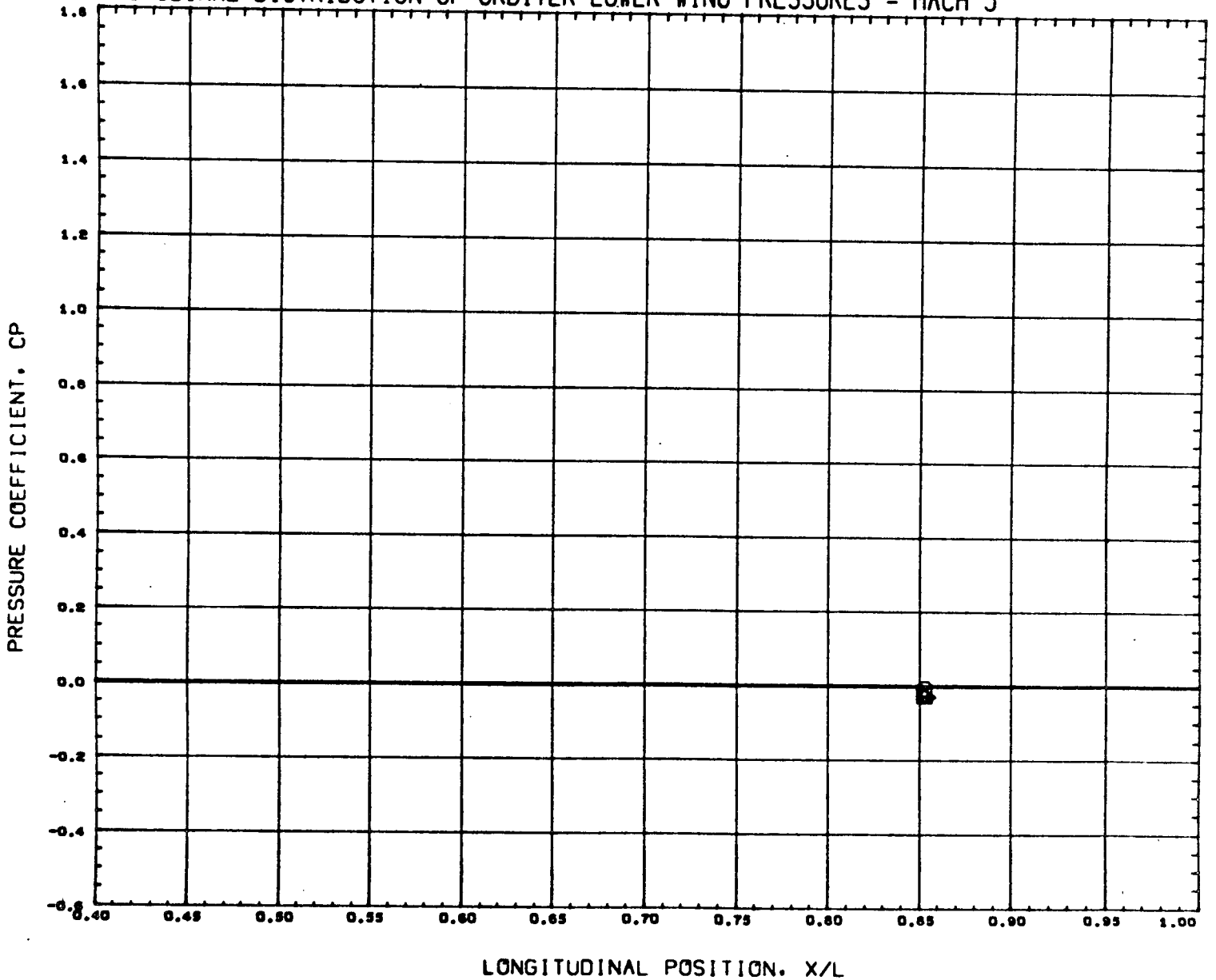


SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.568	0.228
△	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	9.909	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

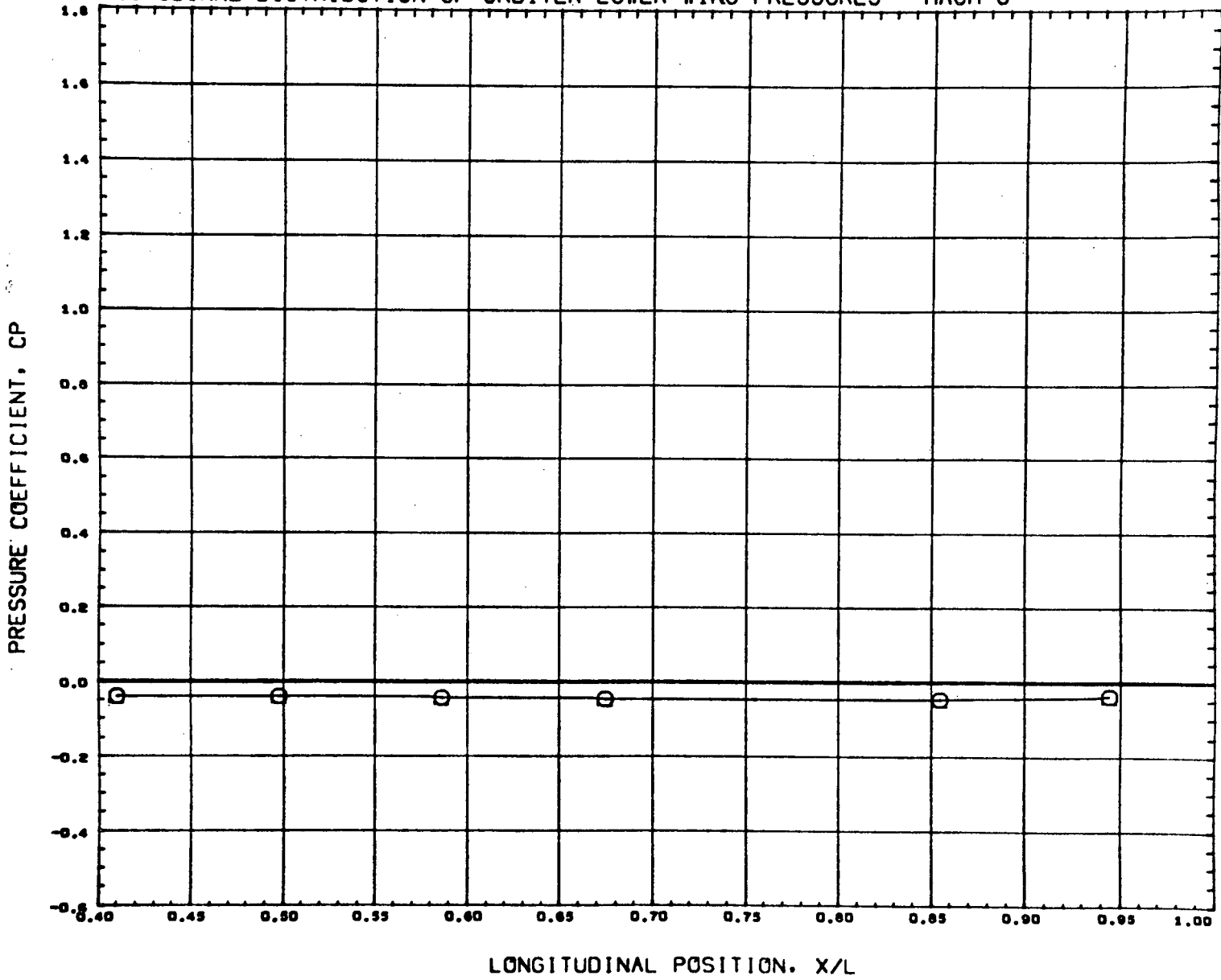


SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.739	0.226
-	0.143		
-	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 9.909	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.908

PARAMETRIC VALUES			
ALPHA B	- 9.909	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

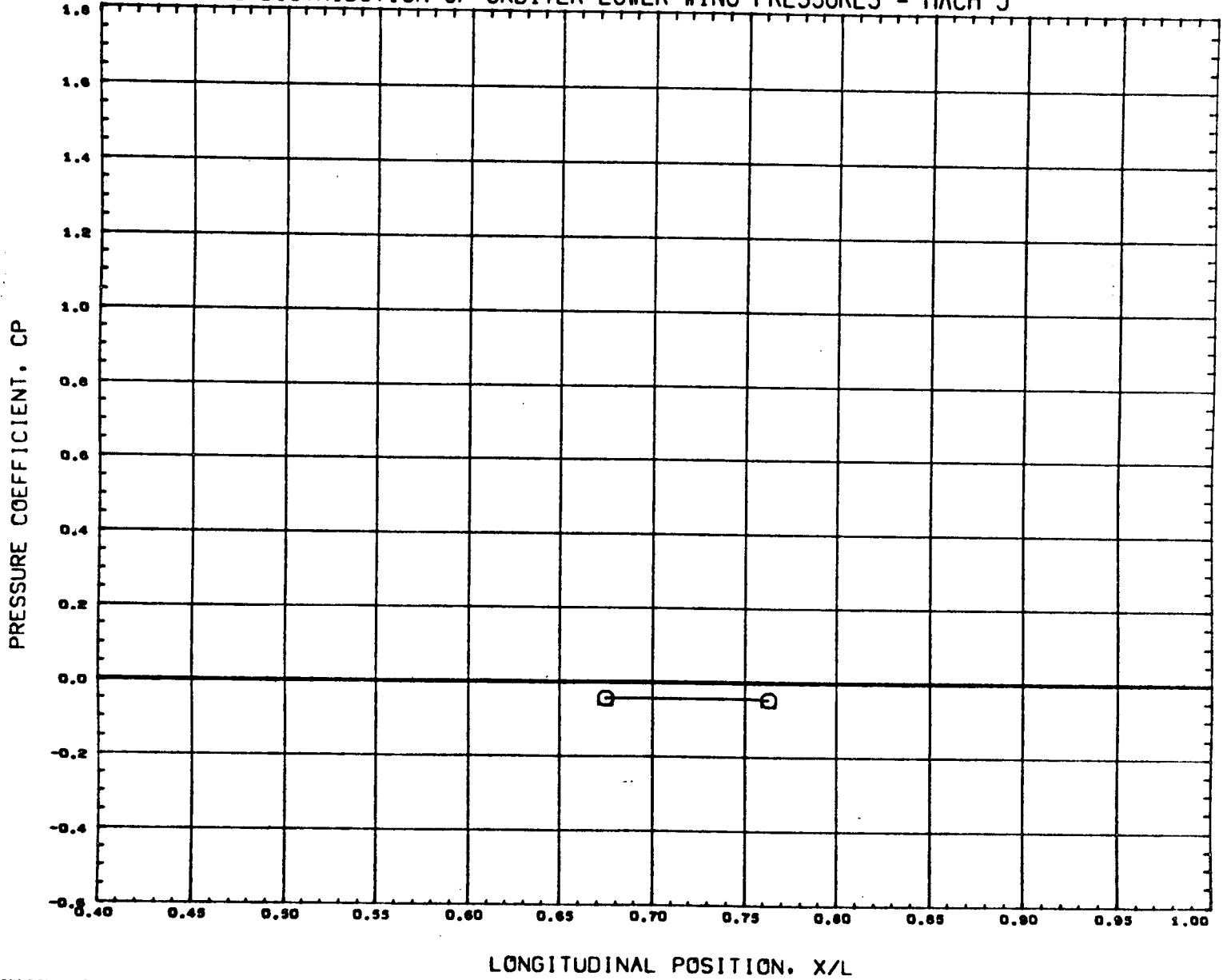
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

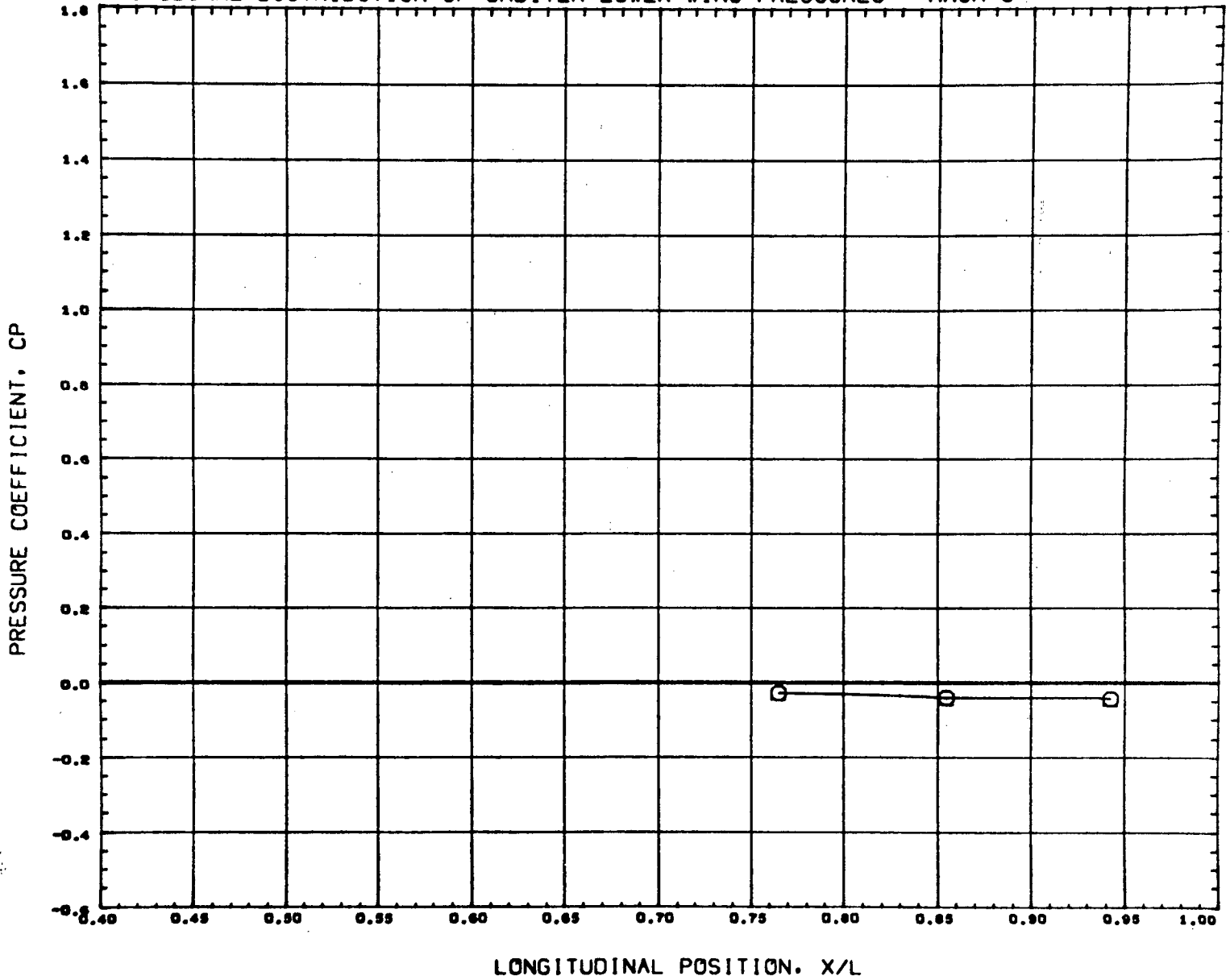


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.399	0.906

PARAMETRIC VALUES			
ALPHAB	- 9.909	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.368	0.908

PARAMETRIC VALUES			
ALPHAB	- 9.909	MACH	4.940
ALPHA1	0.000	ORSPOM	0.000
BSTPOW	0.000		

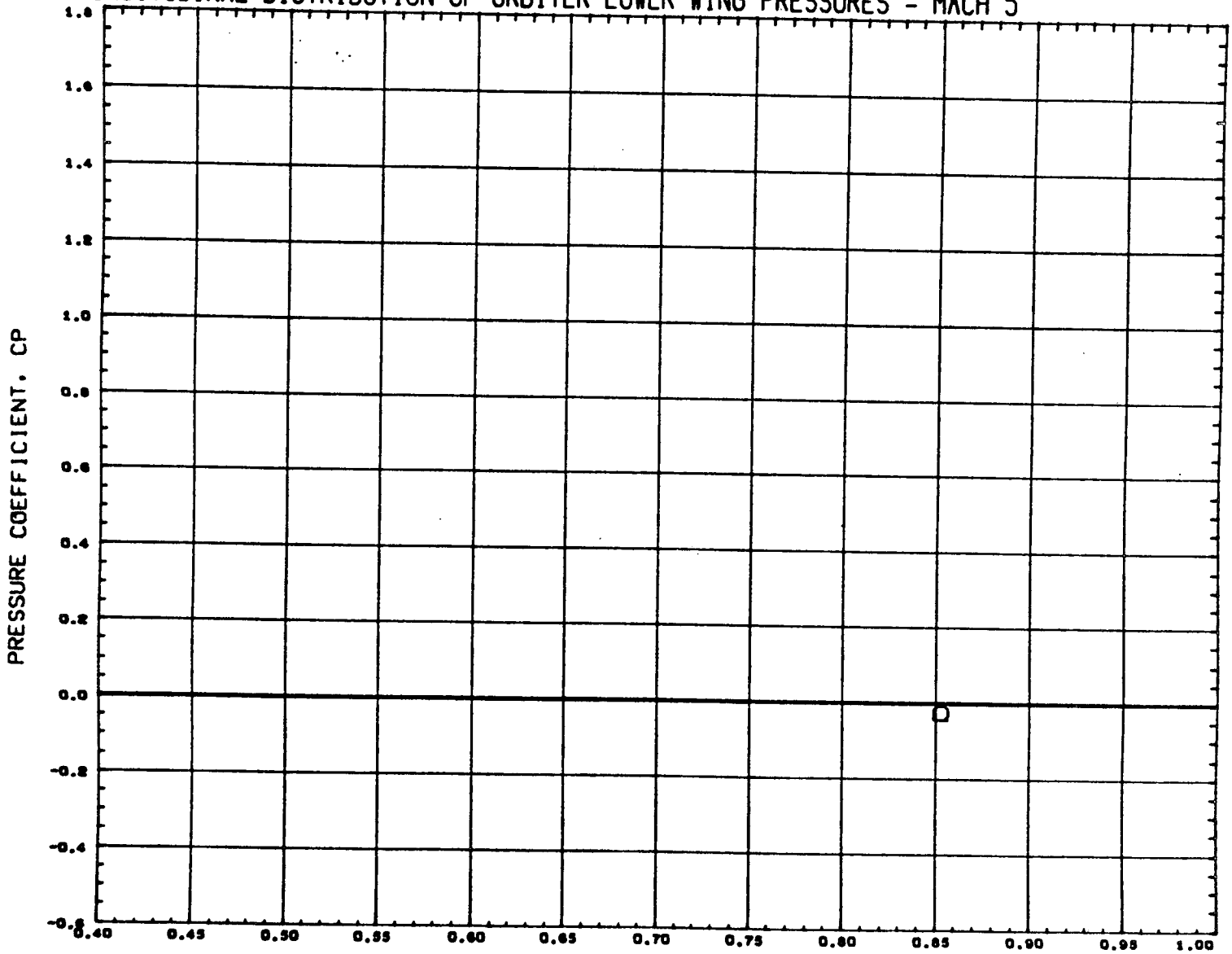
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 ○ 0.920 0.738 0.908

PARAMETRIC VALUES
 ALPHAB - 8.909 MACH 4.940
 ALPHA1 0.000 ORBPOW 0.000
 BSTPOW 0.000

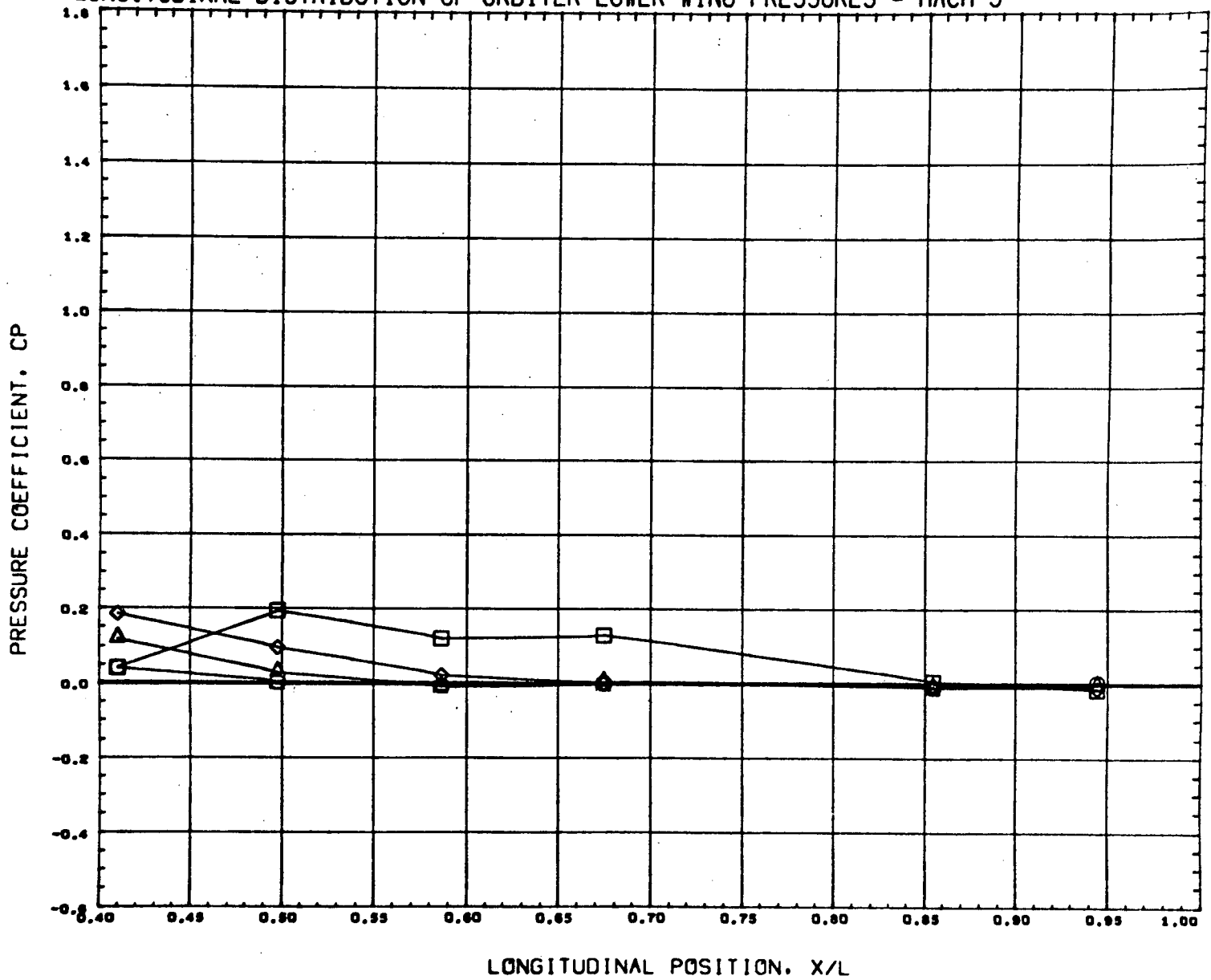
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

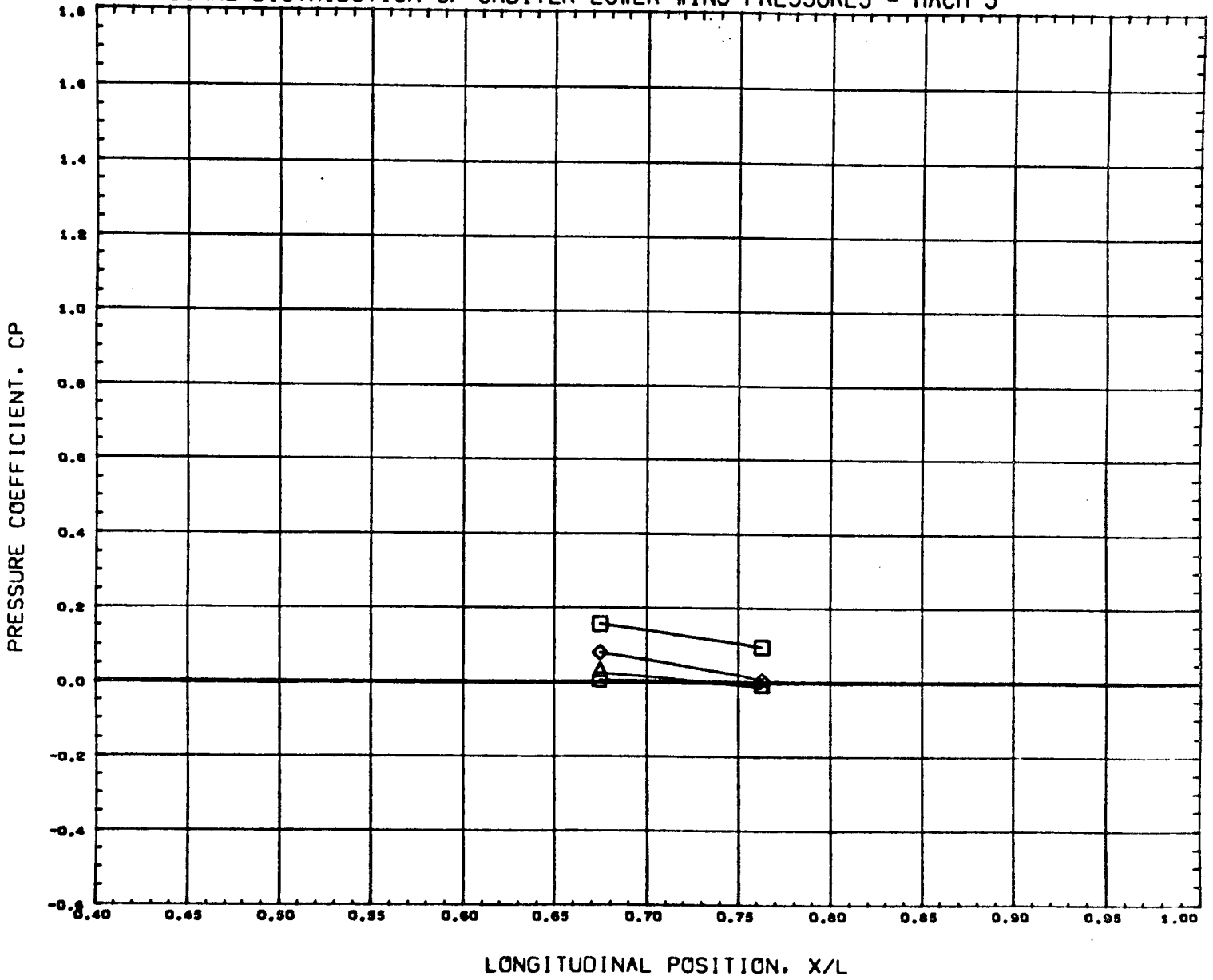
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

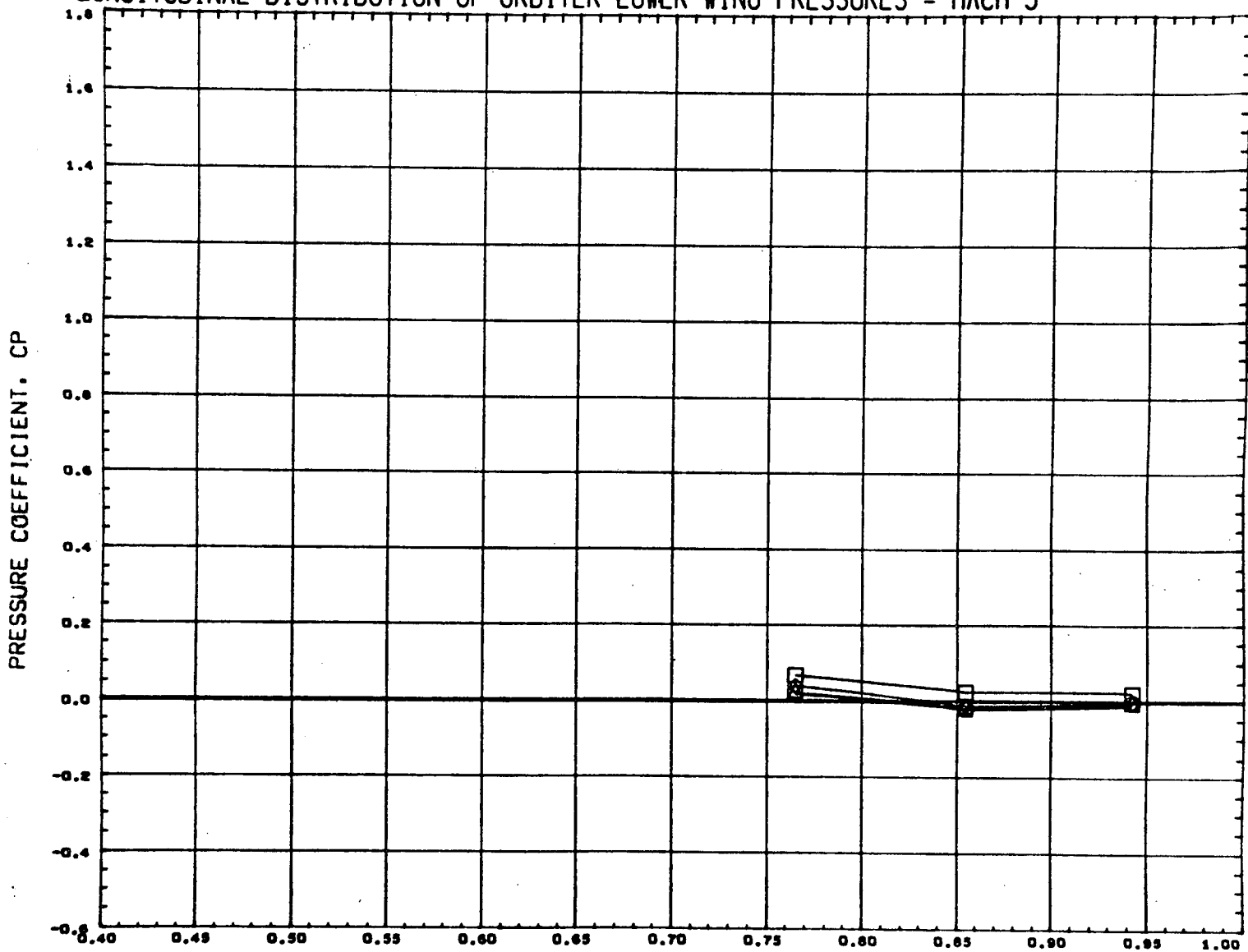


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

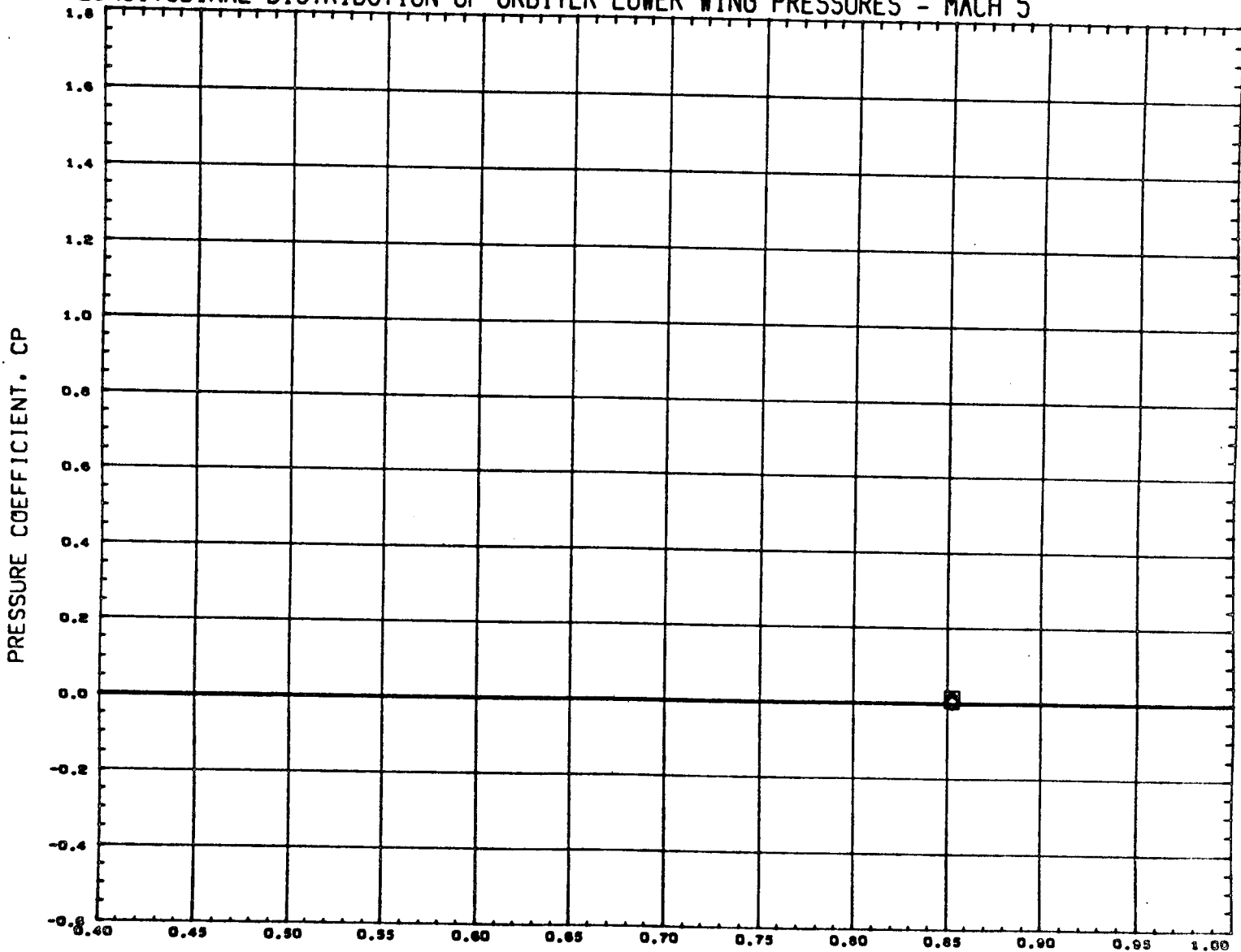


SYMBOL	DELTA X	Y/B	DELTA Z
△	0.041	0.369	0.114
◇	0.103		
◻	0.185		
◻	0.390		

PARAMETRIC VALUES			
ALPHA B	4.868	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.738	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

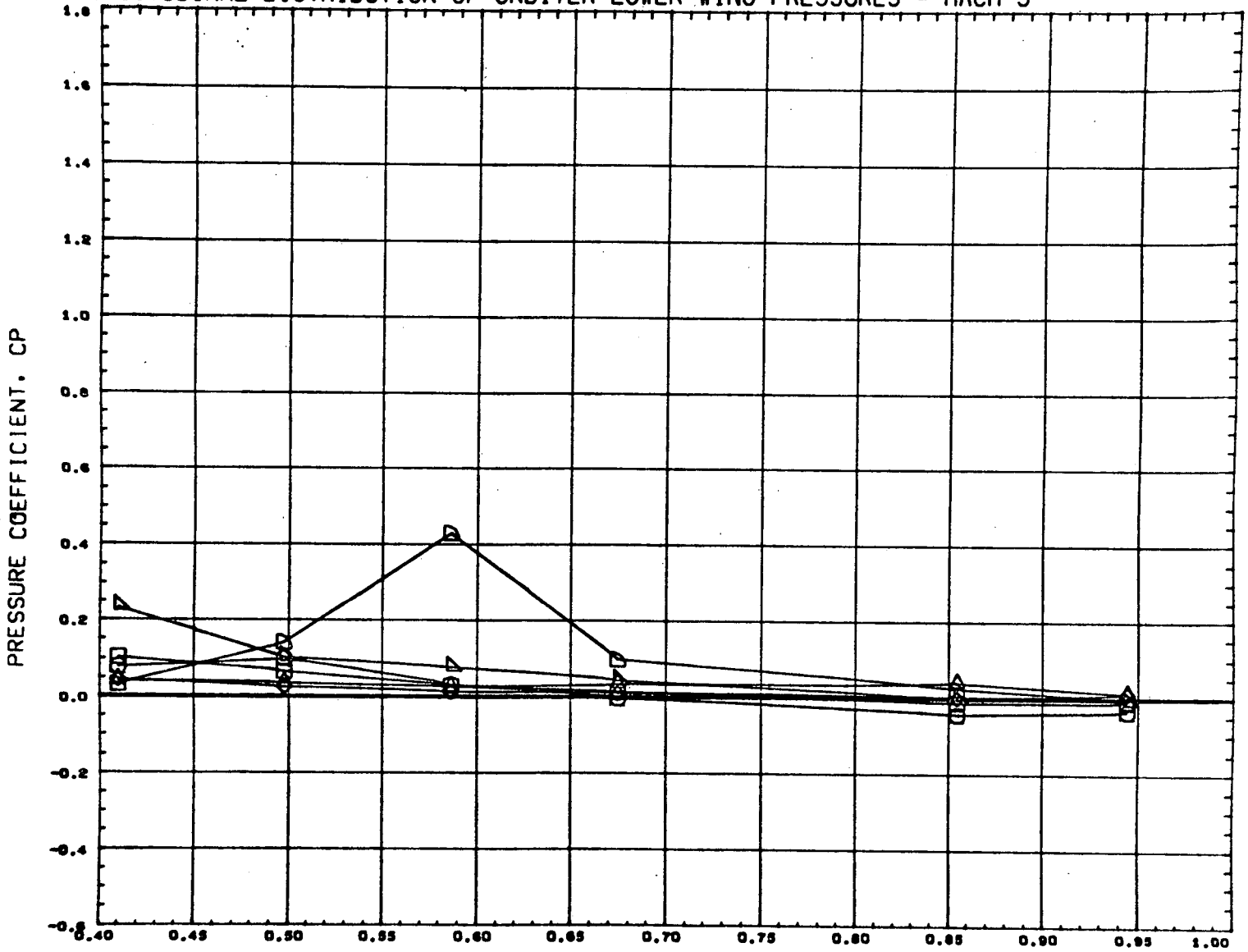
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

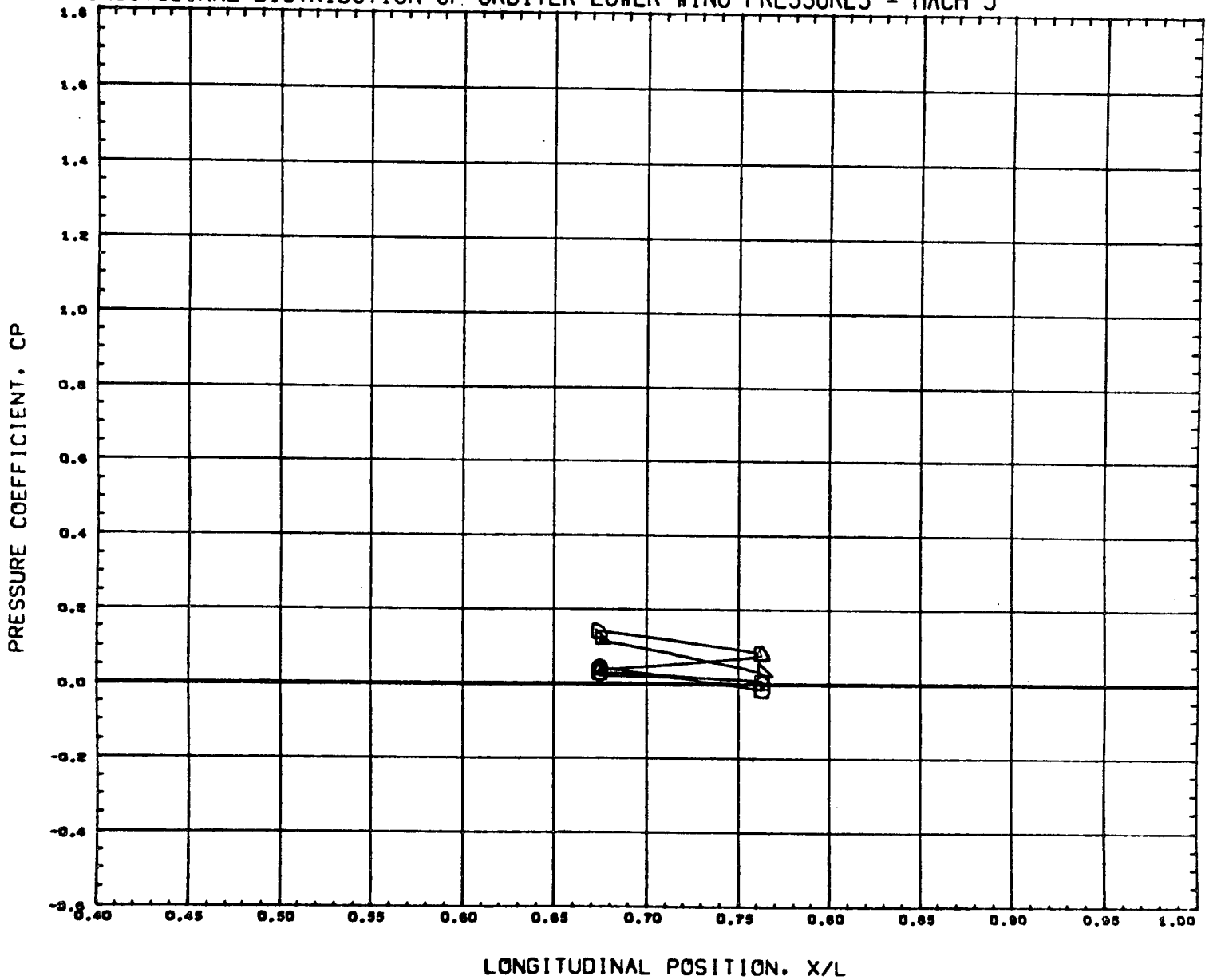


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.390	0.230	0.120
□	0.145		
◇	0.020		
○	0.103		
◇	0.227		
◇	0.350		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	4.666	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

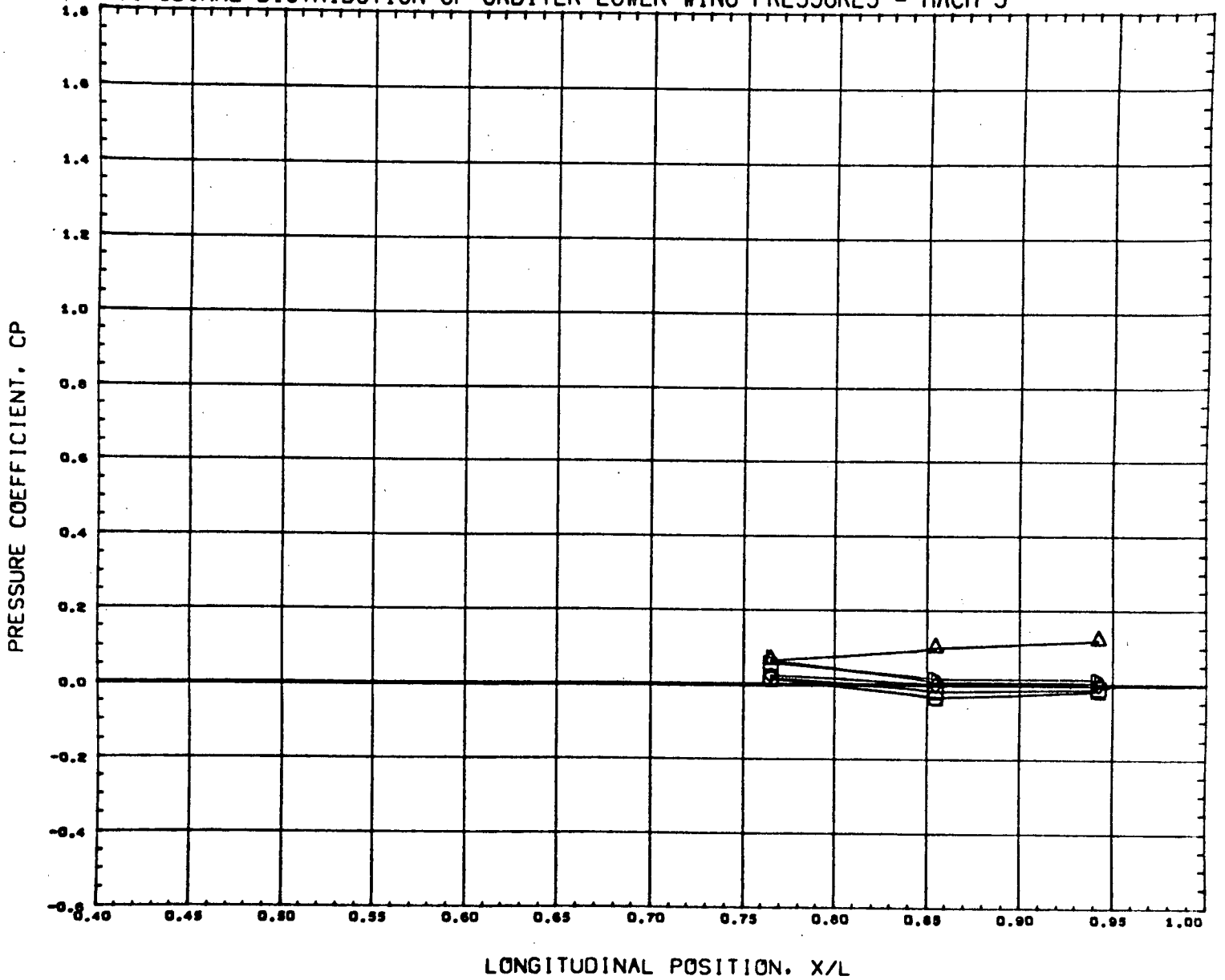


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.120
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	4.886	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

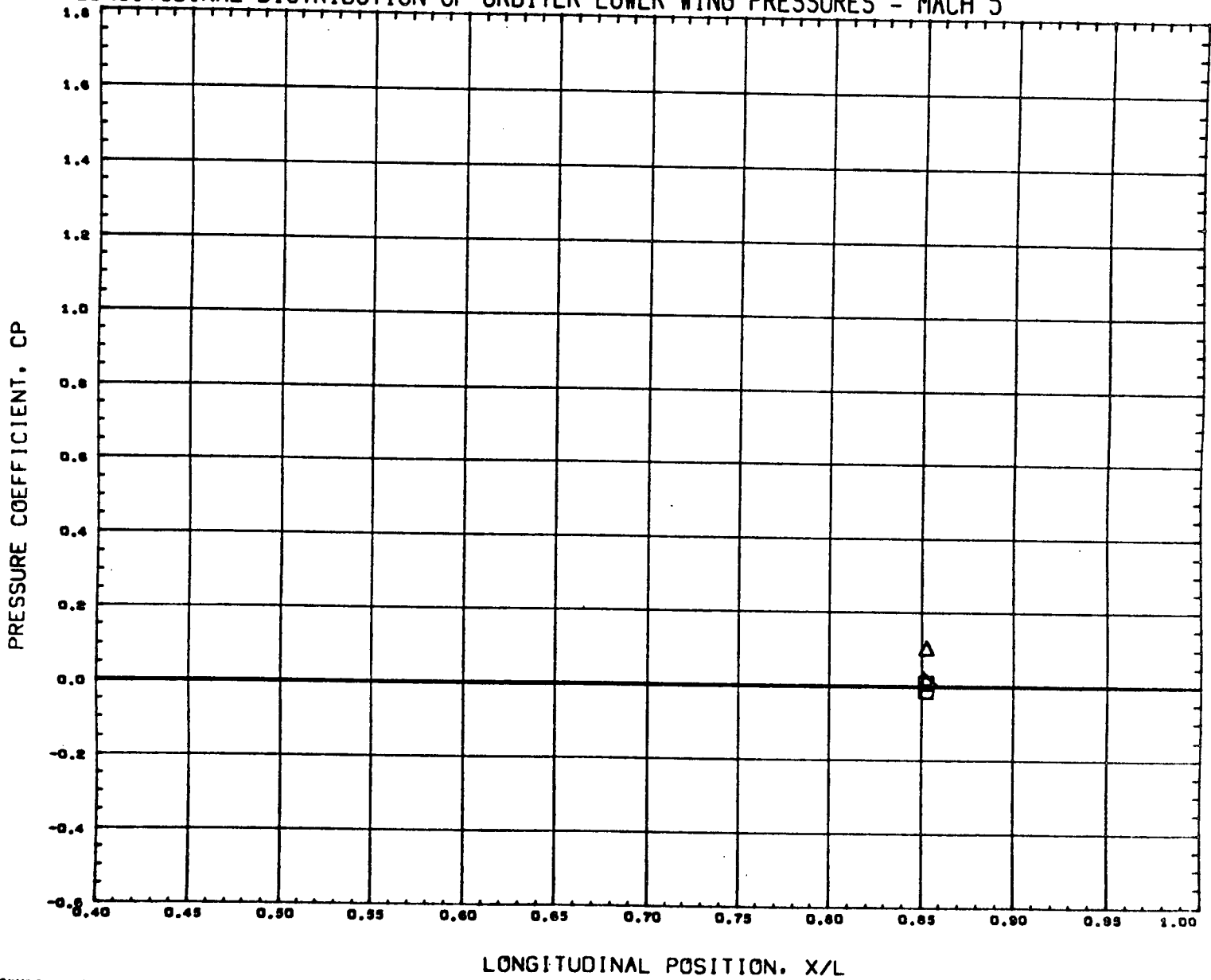
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
△	0.390	0.968	0.120
□	0.143		
◇	0.020		
○	0.103		
	0.227		
	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	4.888	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

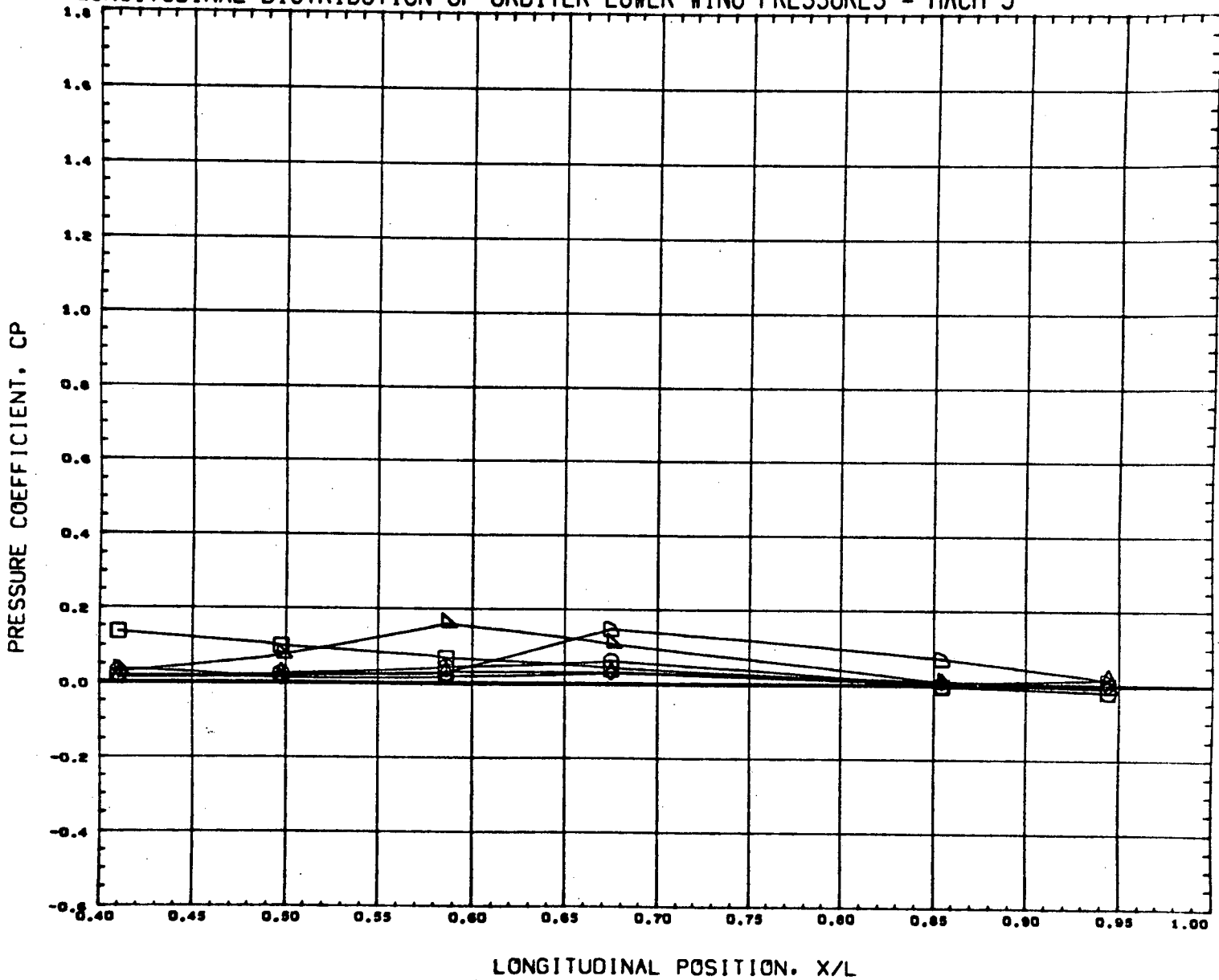


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.738	0.120
△	0.143		
□	0.080		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	4.888	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

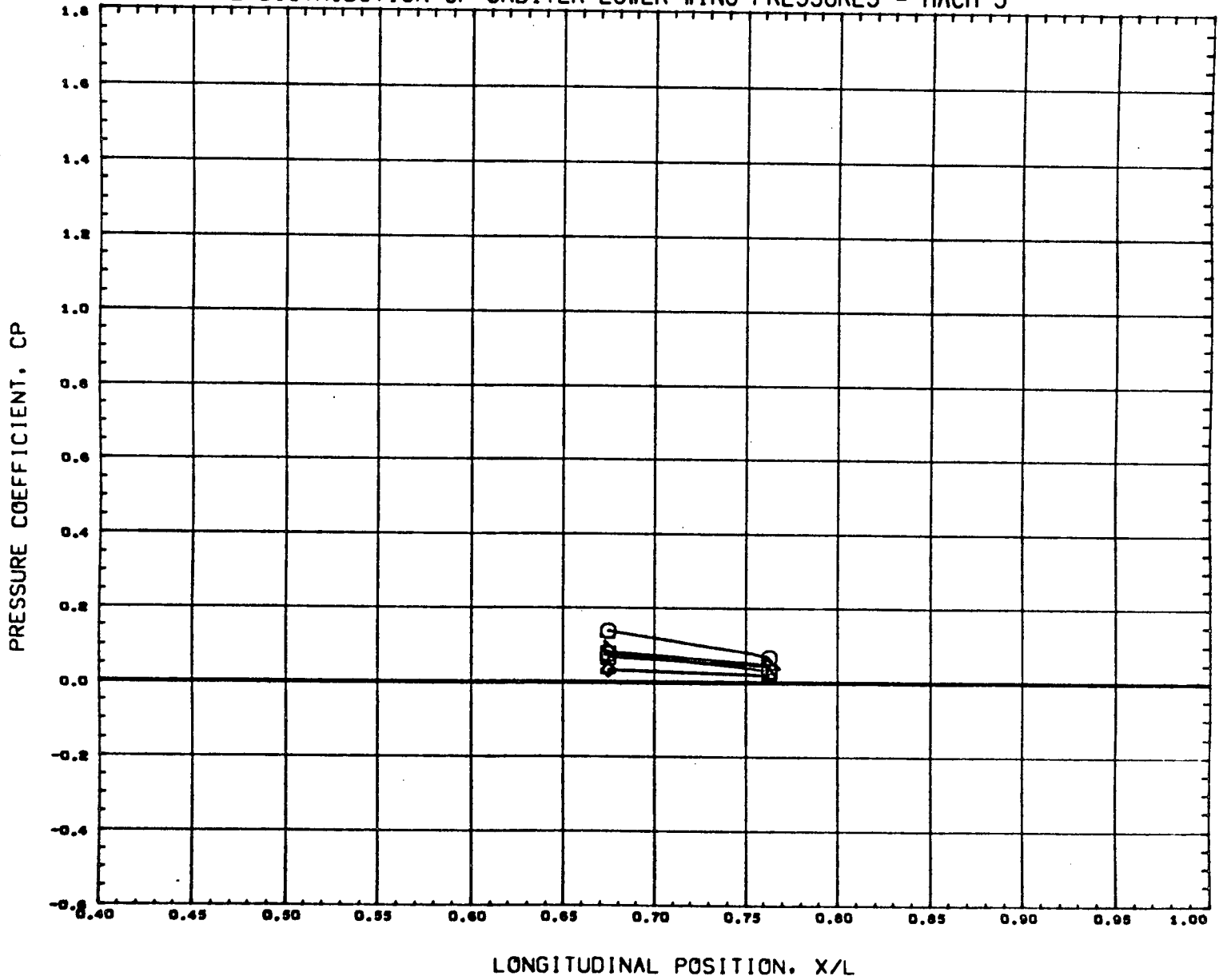


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.230	0.151
△	0.143		
◇	0.020		
○	0.103		
▽	0.227		
	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHA B	4.888	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

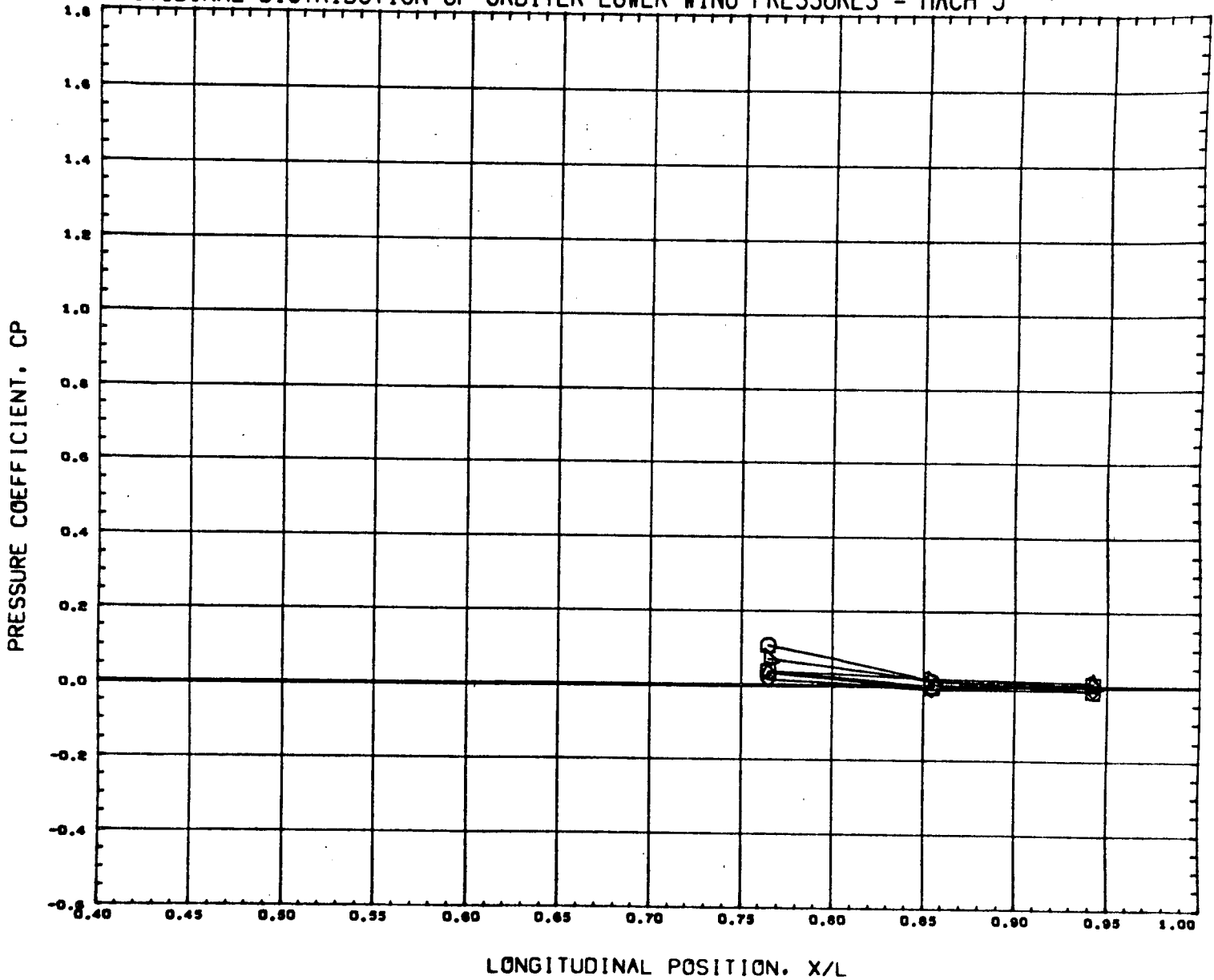


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.151
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	4.688	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

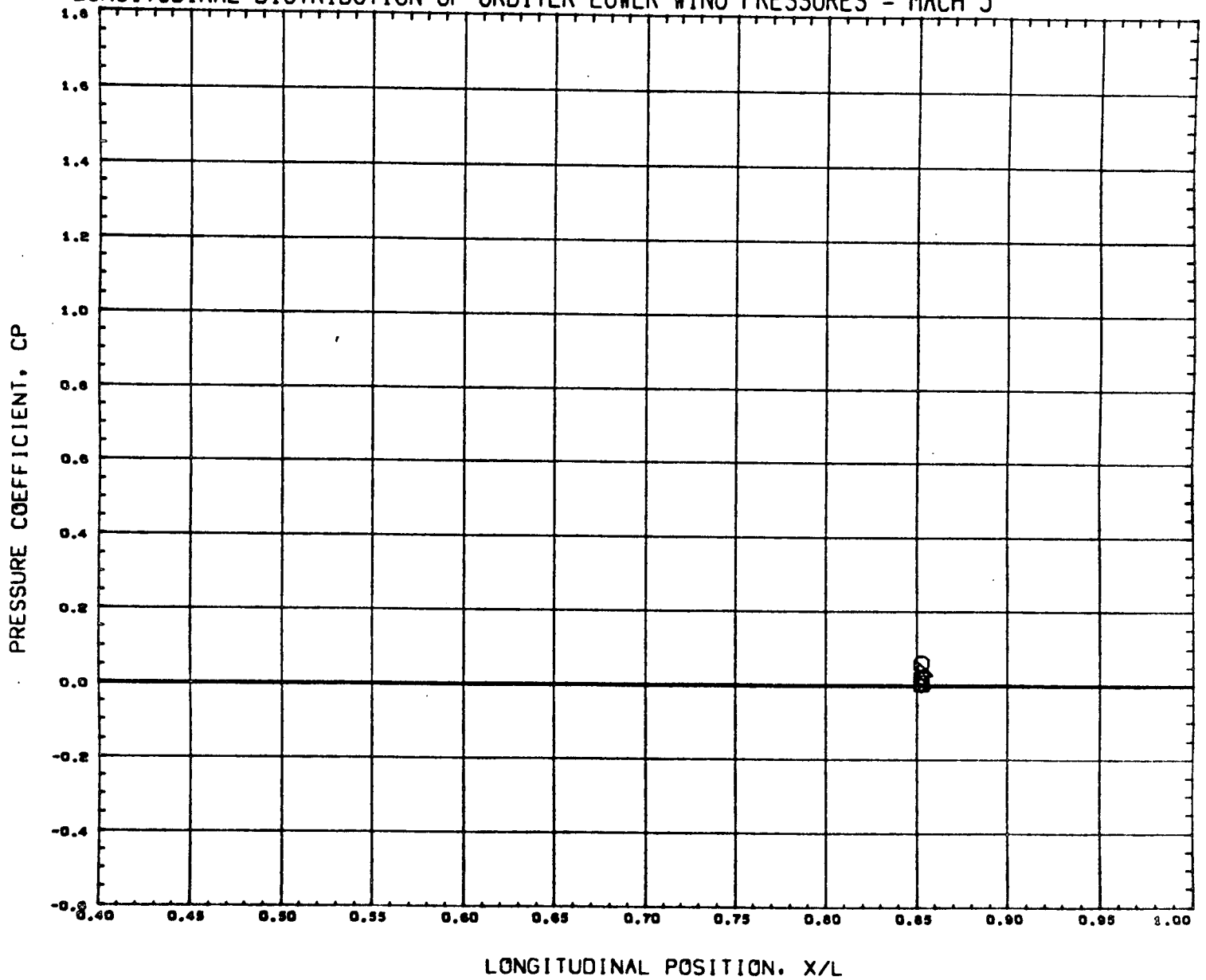


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.368	0.151
◇	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.330		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

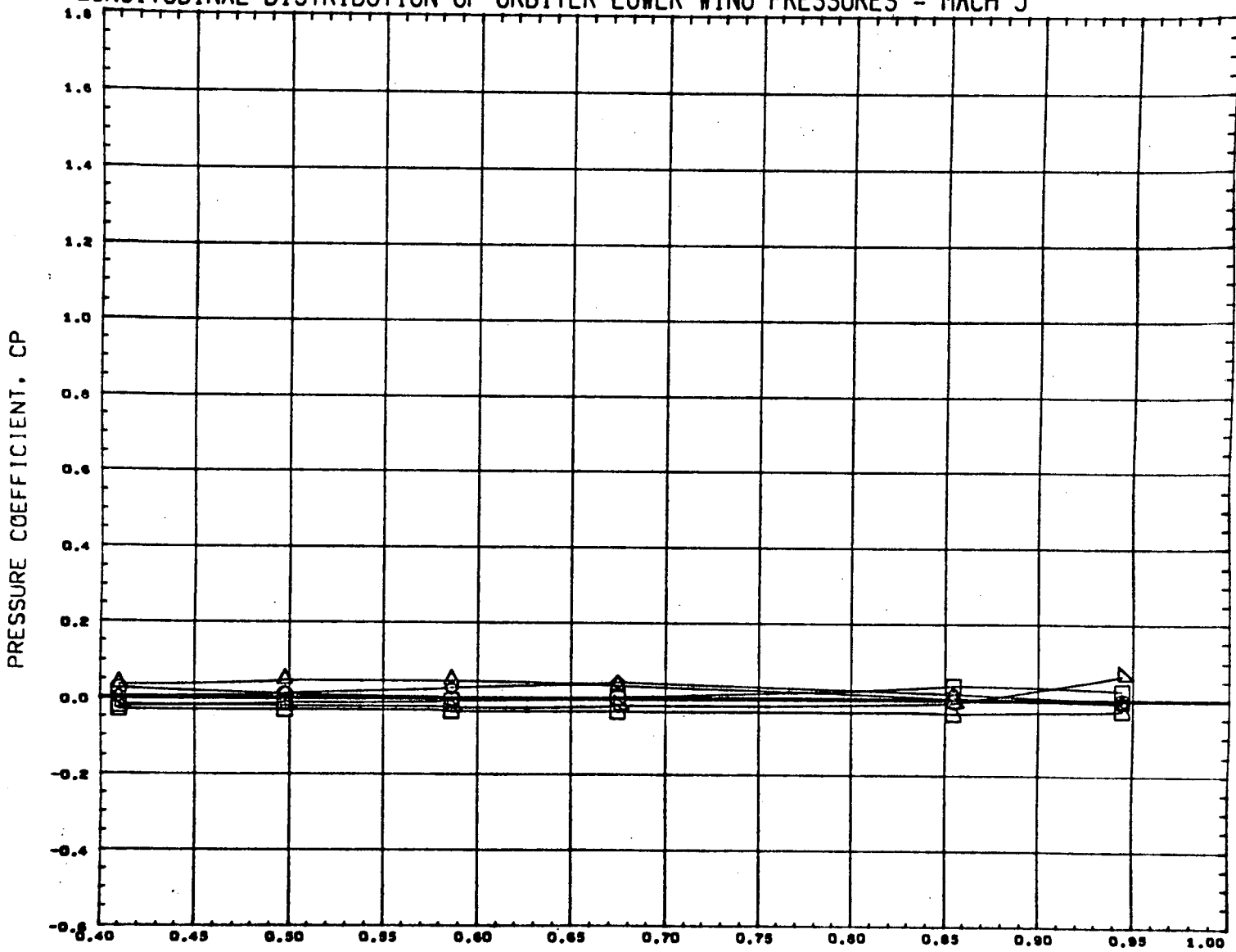
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
◇	0.390	0.730	0.131
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.390	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	4.888	MACH	4.940
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



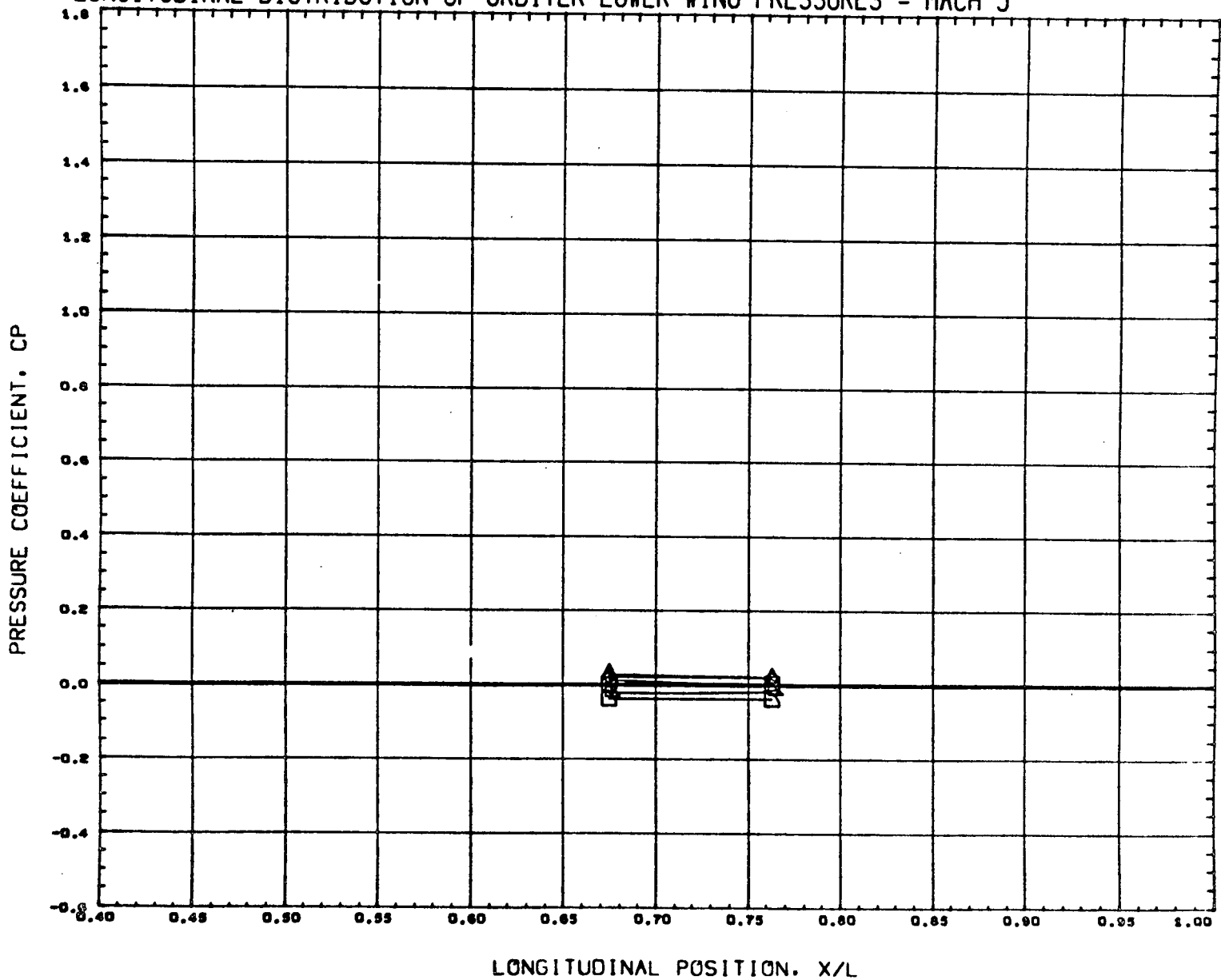
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA K	Y/B	DELTA Z
△	0.390	0.230	0.228
□	0.143		
◇	0.020		
○	0.103		
◻	0.227		
◻	0.330		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	4.888	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

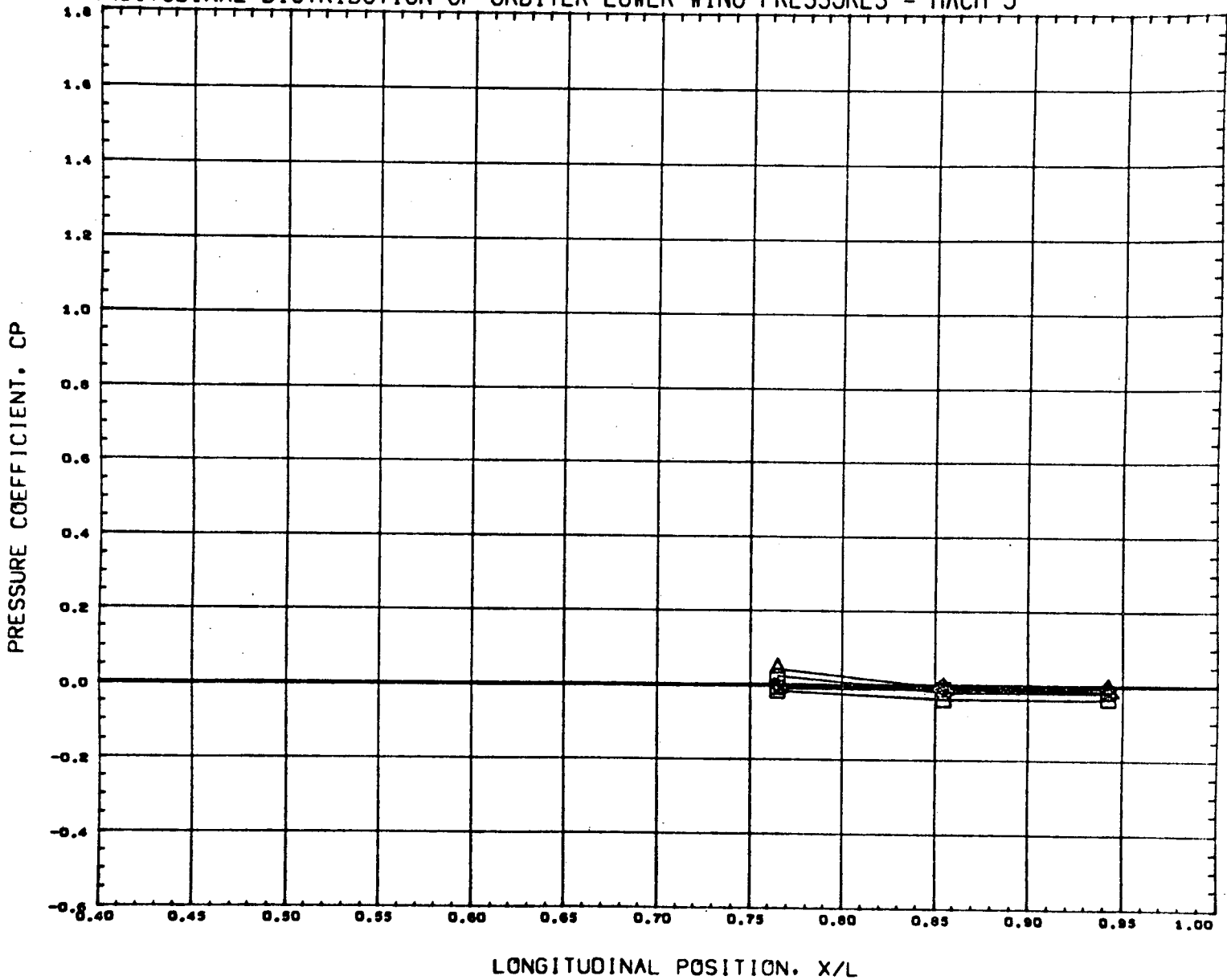


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.228
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	4.888	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

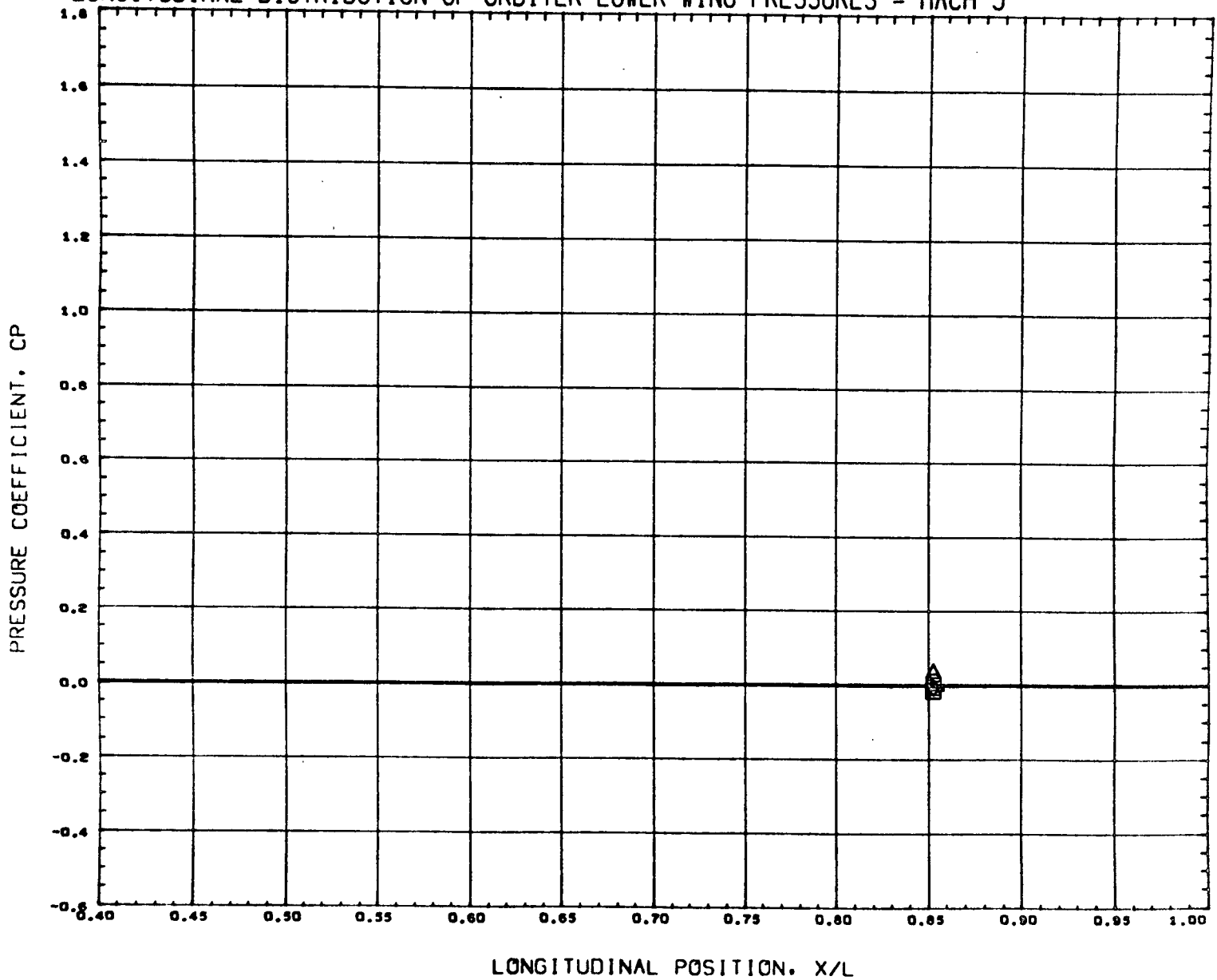


SYMBOL	DELTA X	Y/B	DELTA Z
△	0.390	0.566	0.226
◇	0.143		
□	0.020		
	0.103		
	0.227		
	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	4.888	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

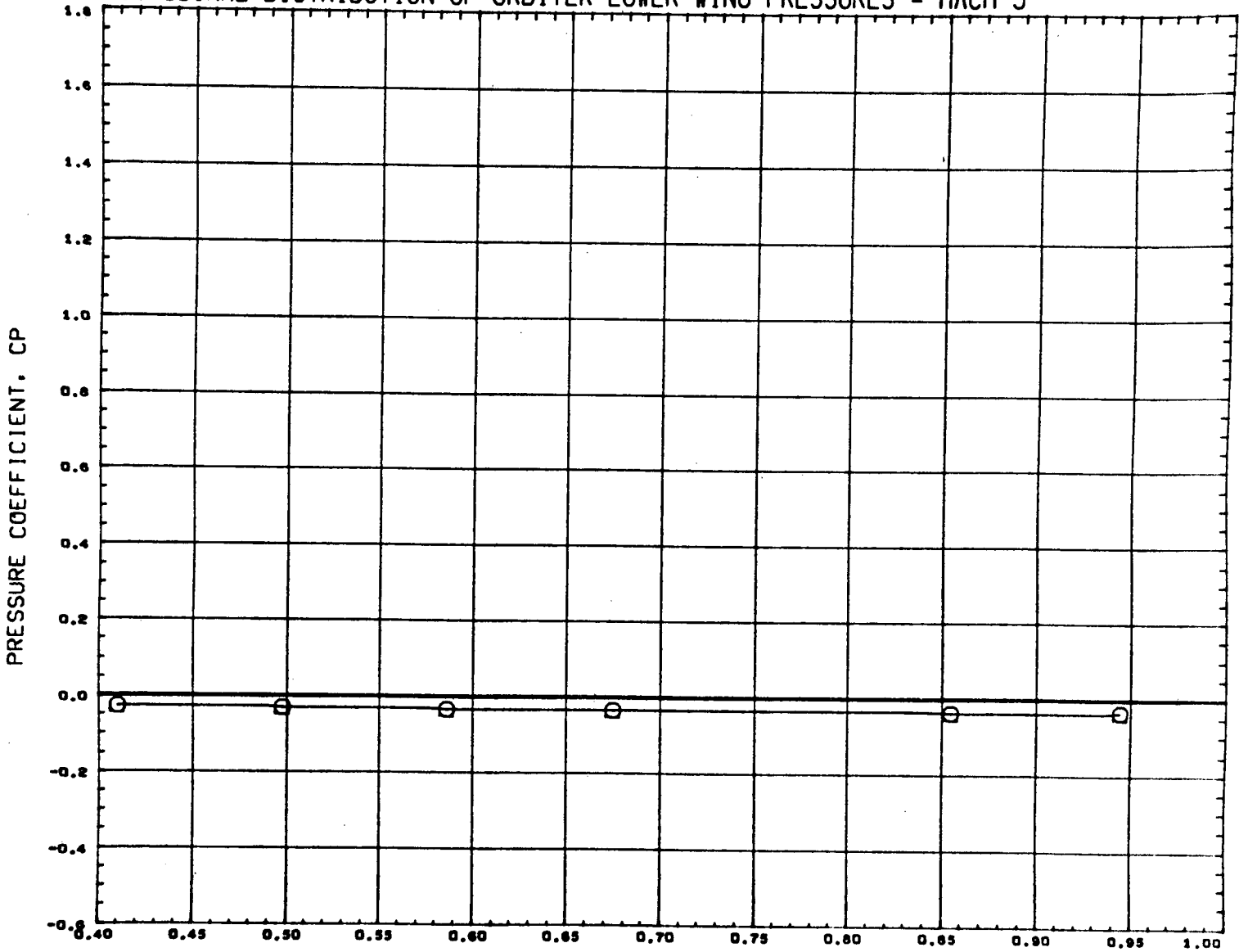


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.738	0.228
△	0.143		
◇	0.020		
□	0.103		
◇	0.227		
◇	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	4.688	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

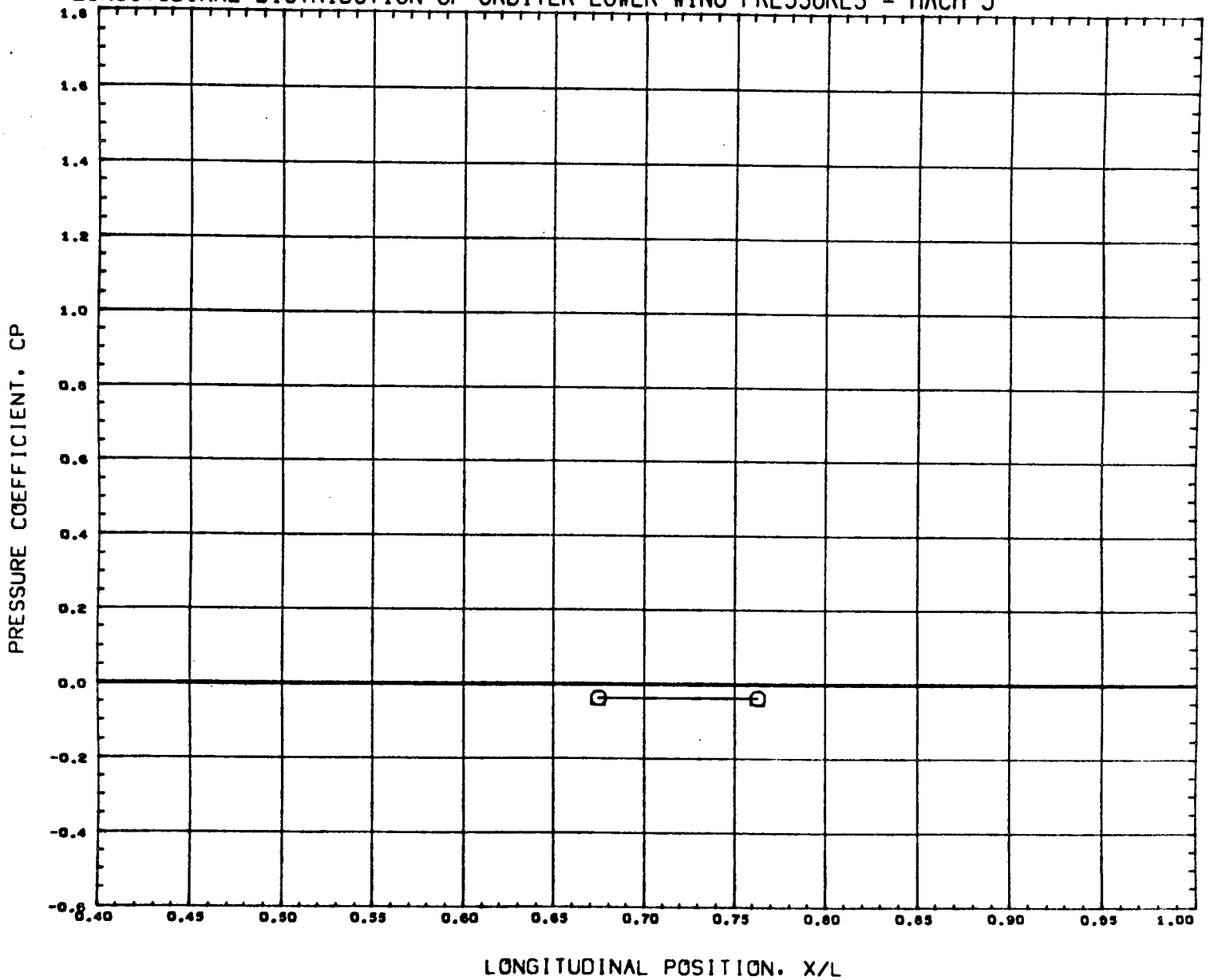
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.920	0.399	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHA1	0.000	ORSPOW	0.000
BSTPOW	0.000		

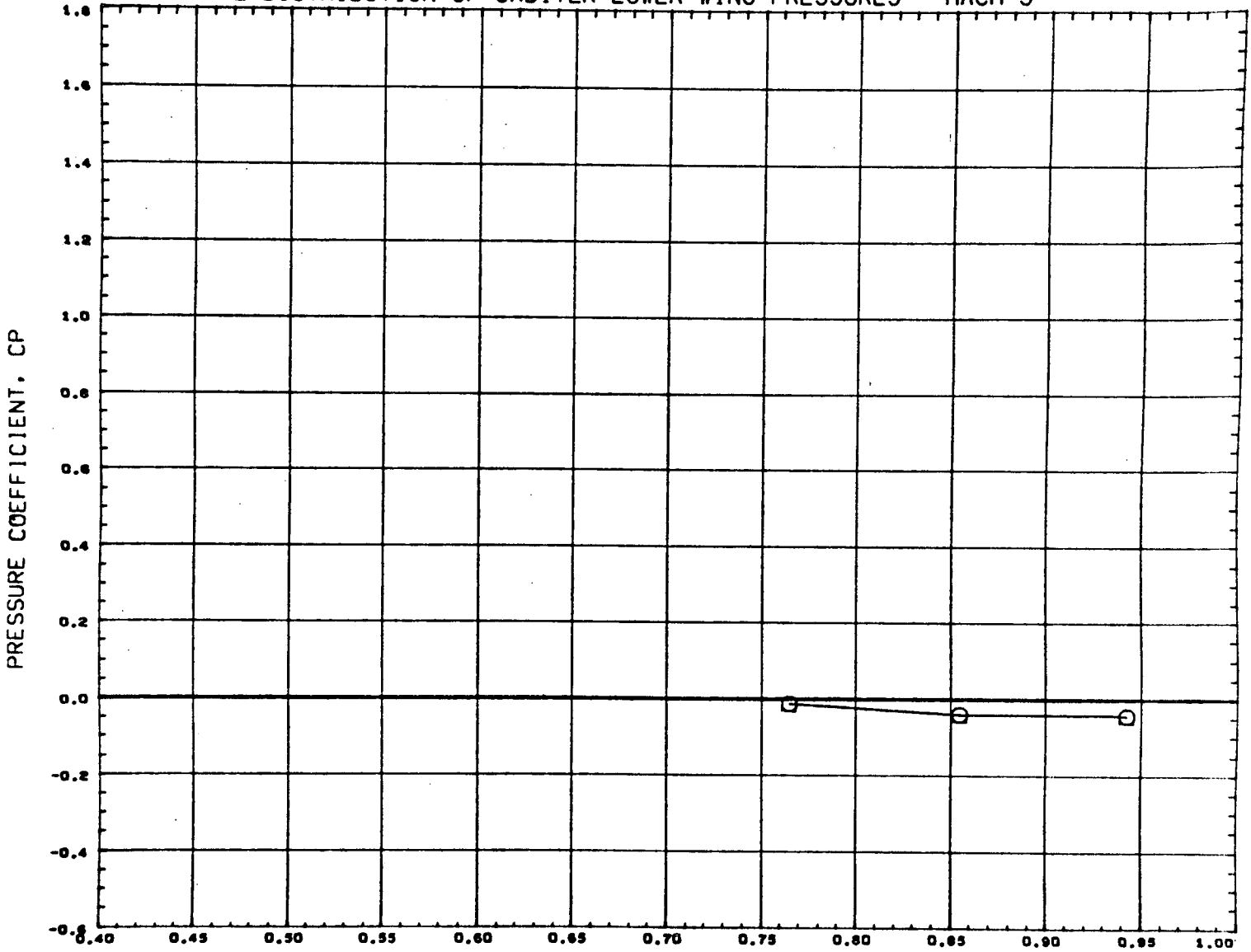
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.920	0.369	0.908

PARAMETRIC VALUES			
ALPHA B	- 4.888	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

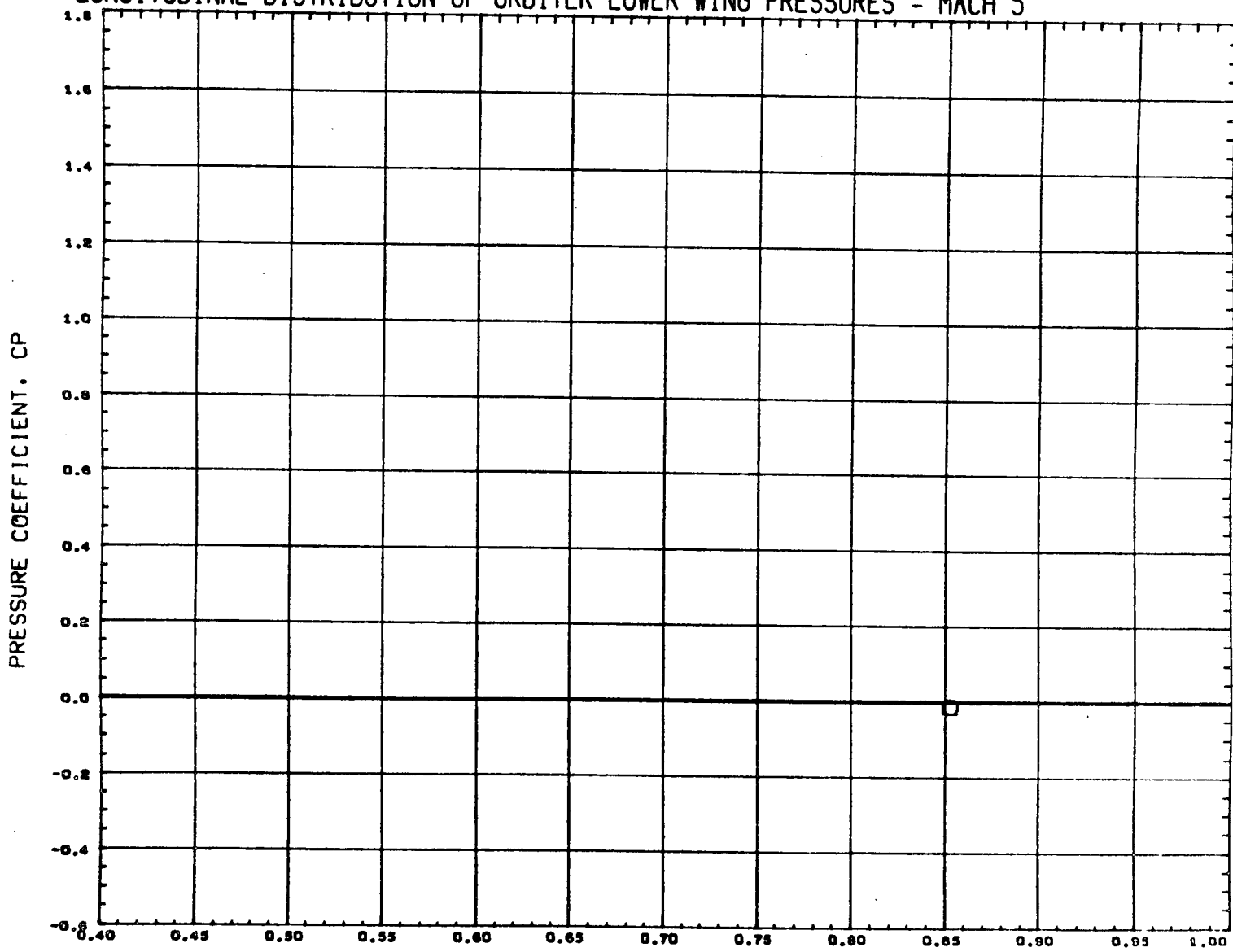
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.920	0.738	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

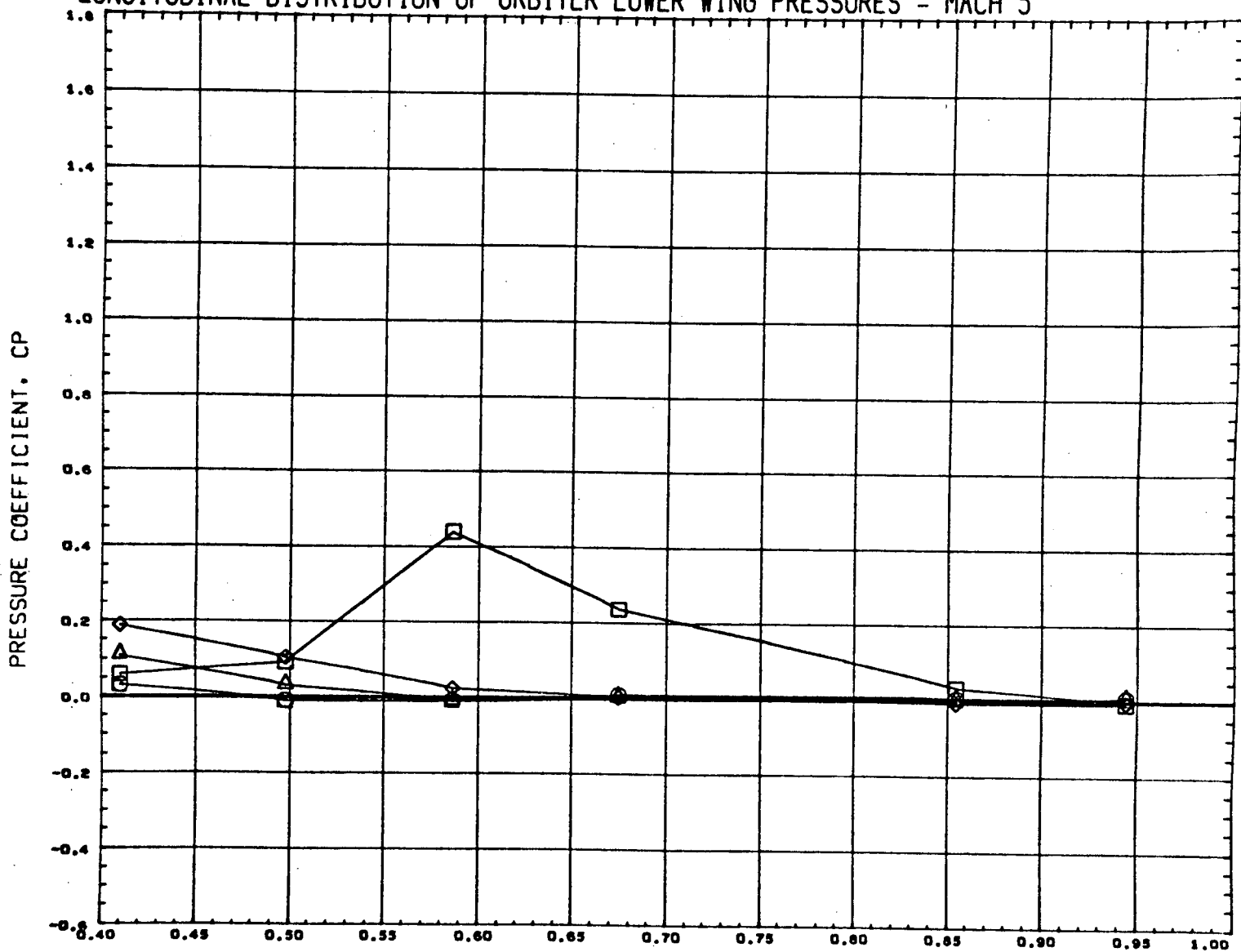
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



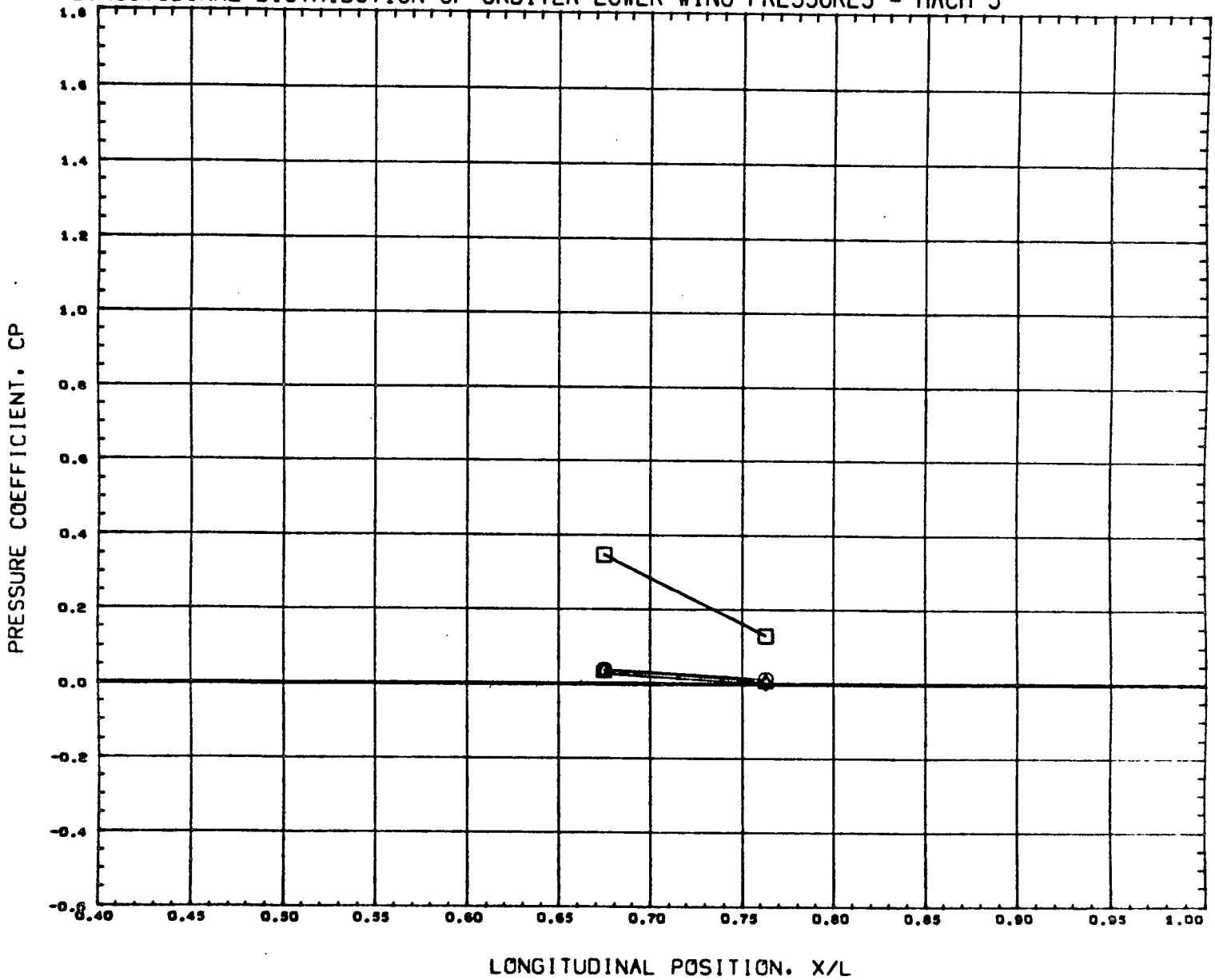
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.041	0.230	0.114
△	0.103		
◇	0.165		
○	0.330		

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

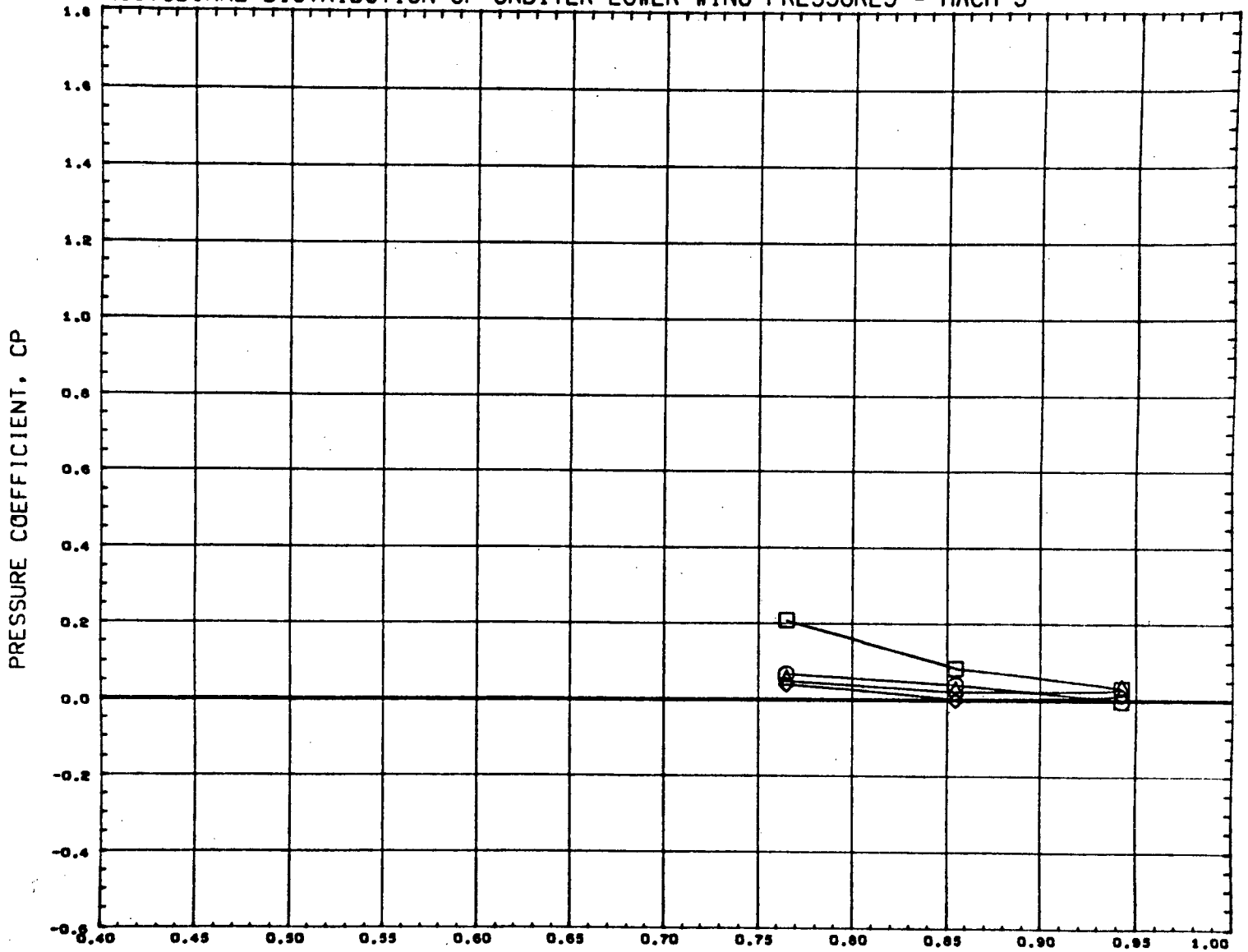
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z	PARAMETRIC VALUES			
○	0.041	0.399	0.114	ALPHAB	0.050	MACH	4.940
△	0.103			ALPHA1	0.000	ORBPOW	0.000
◇	0.165			BSTPOW	0.000		
□	0.390						

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.560	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

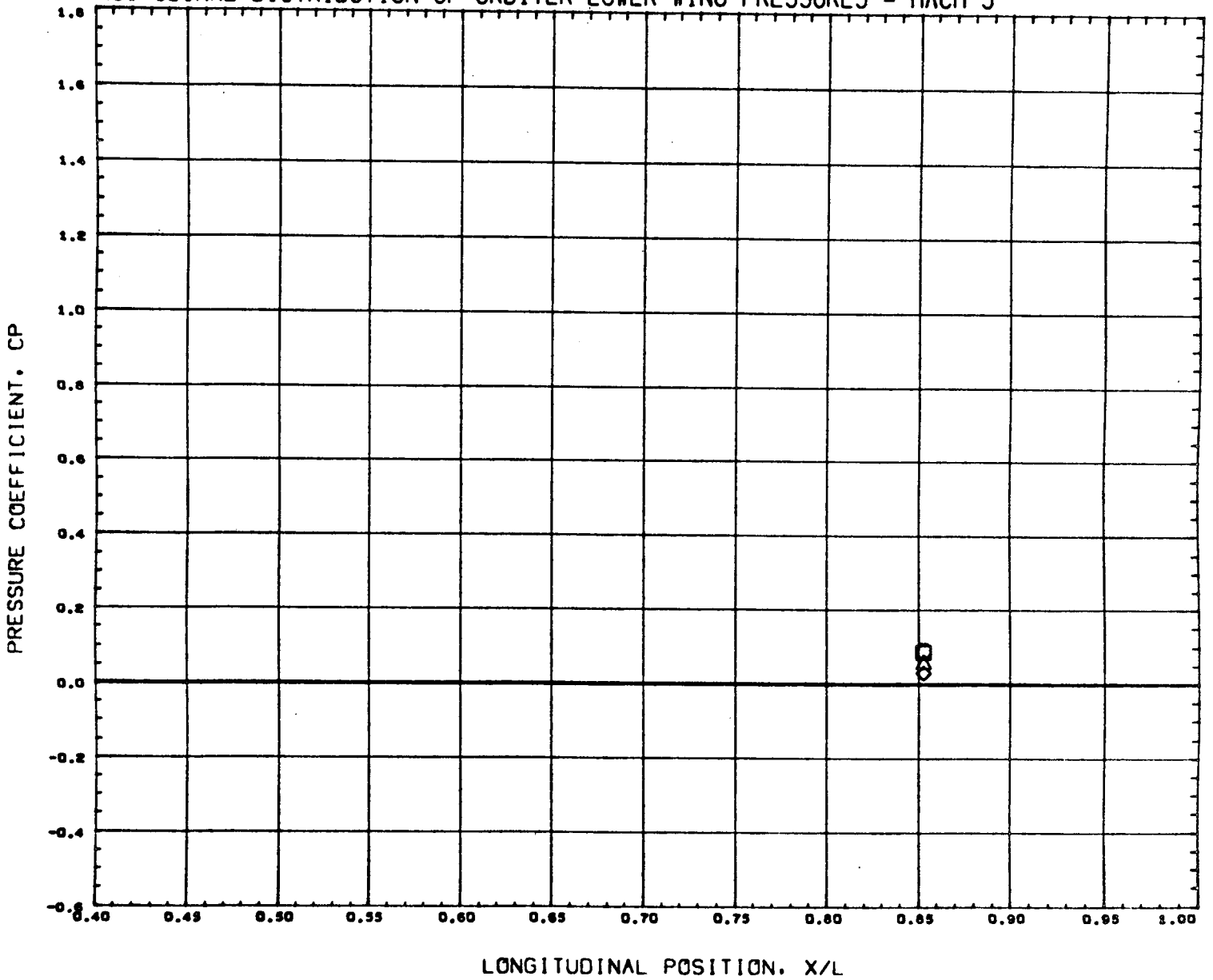
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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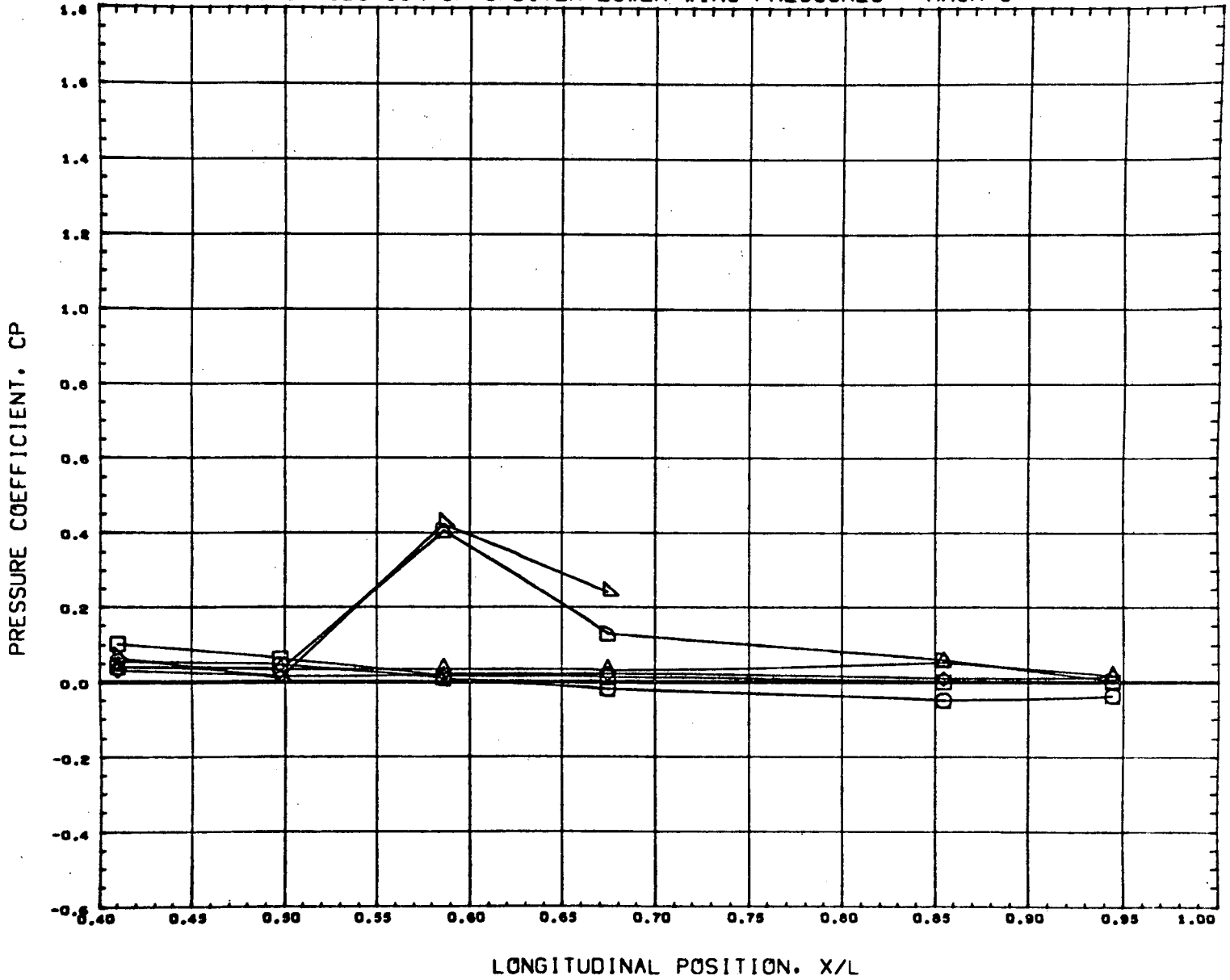
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z	PARAMETRIC VALUES			
○	0.041	0.736	0.114	ALPHA B	0.030	MACH	4.940
△	0.103			ALPHA I	0.000	ORBPOW	0.000
◇	0.165			BSTPOW	0.000		
□	0.350						

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

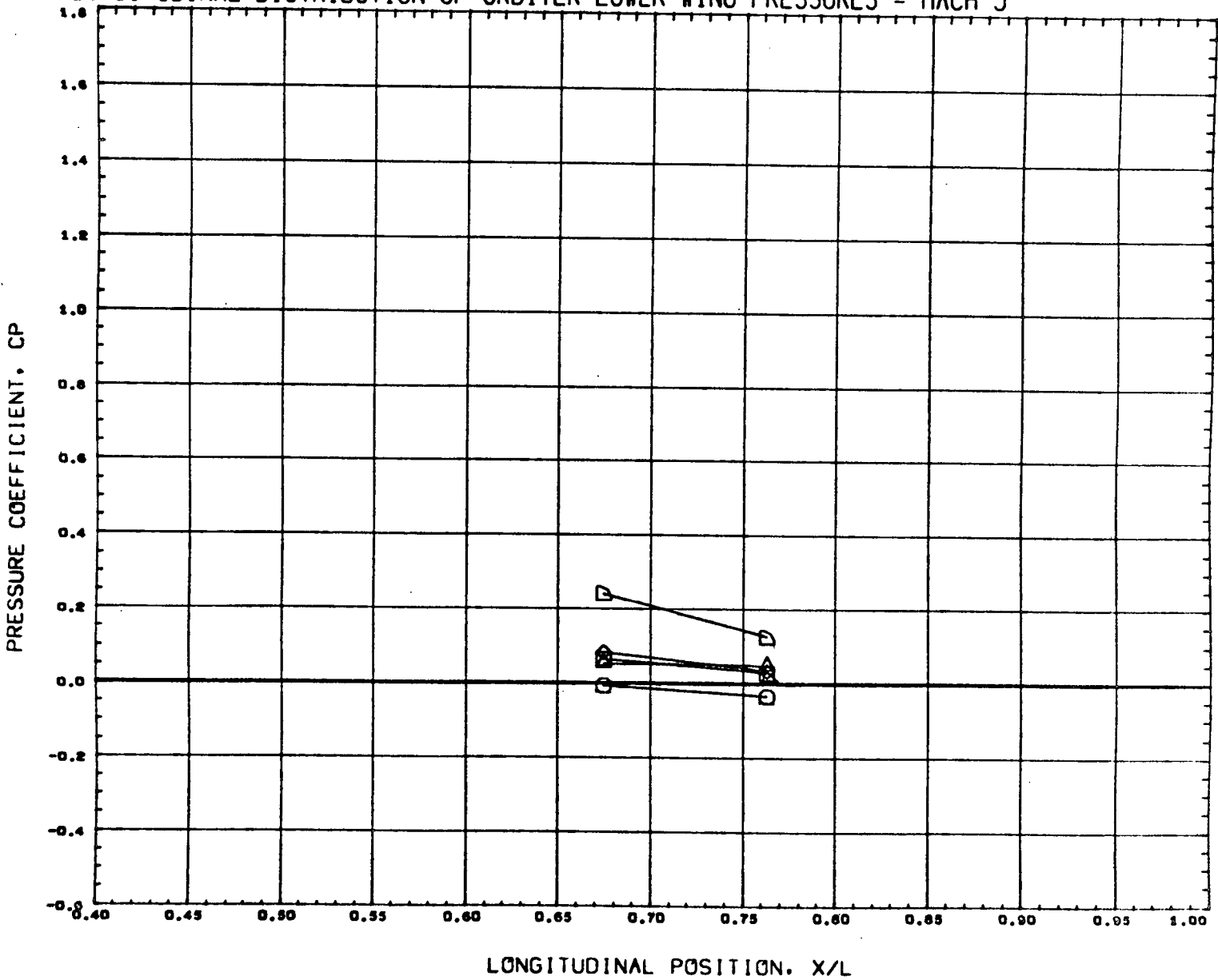


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.120
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOM	0.000
BSTPOM	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



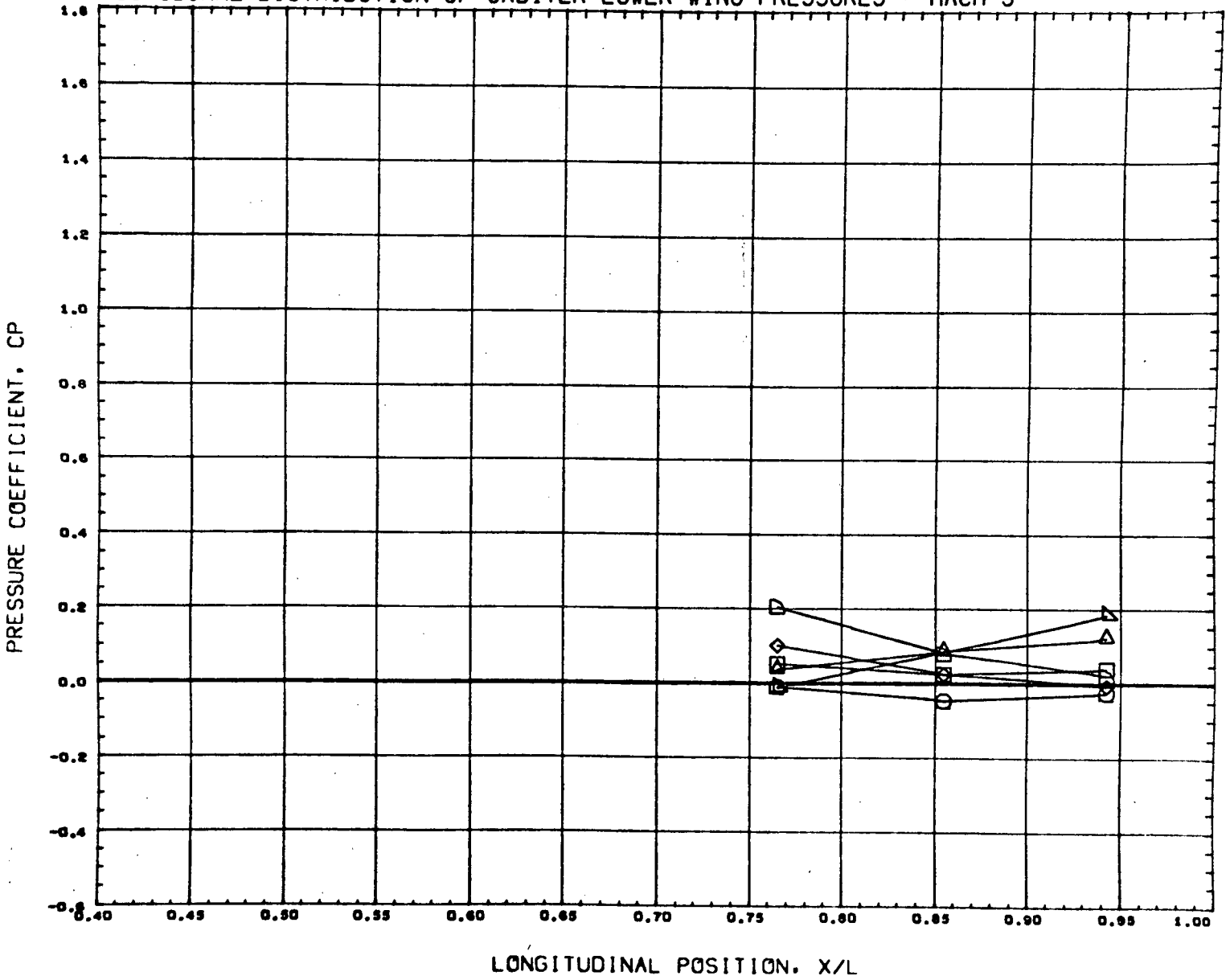
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
◻ (diagonal)	0.390	0.399	0.120
◊	0.143		
○	0.020		
◻ (dot)	0.103		
◻ (dot)	0.227		
◻ (dot)	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

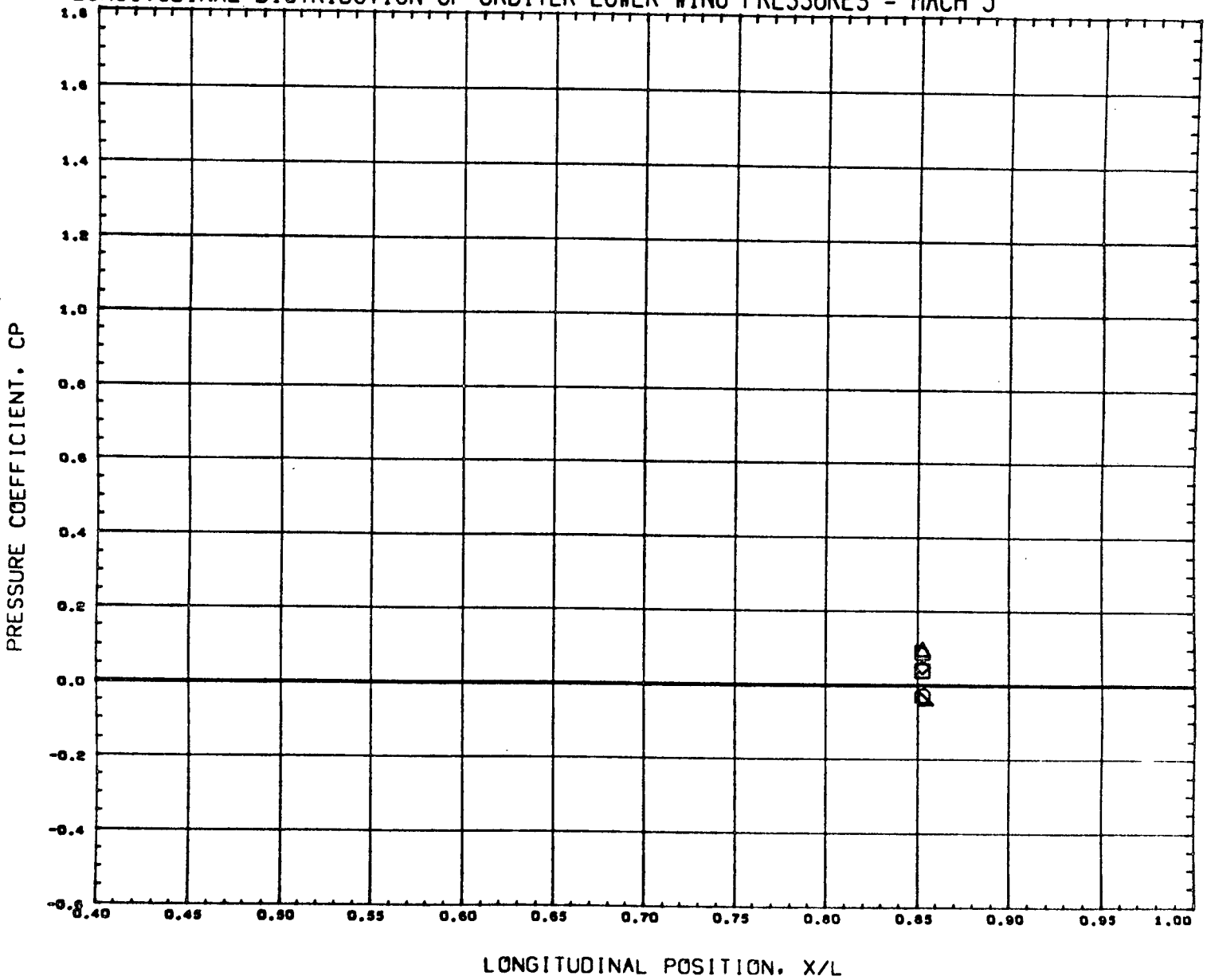
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.369	0.120
◇	0.143		
△	0.020		
□	0.103		
▽	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

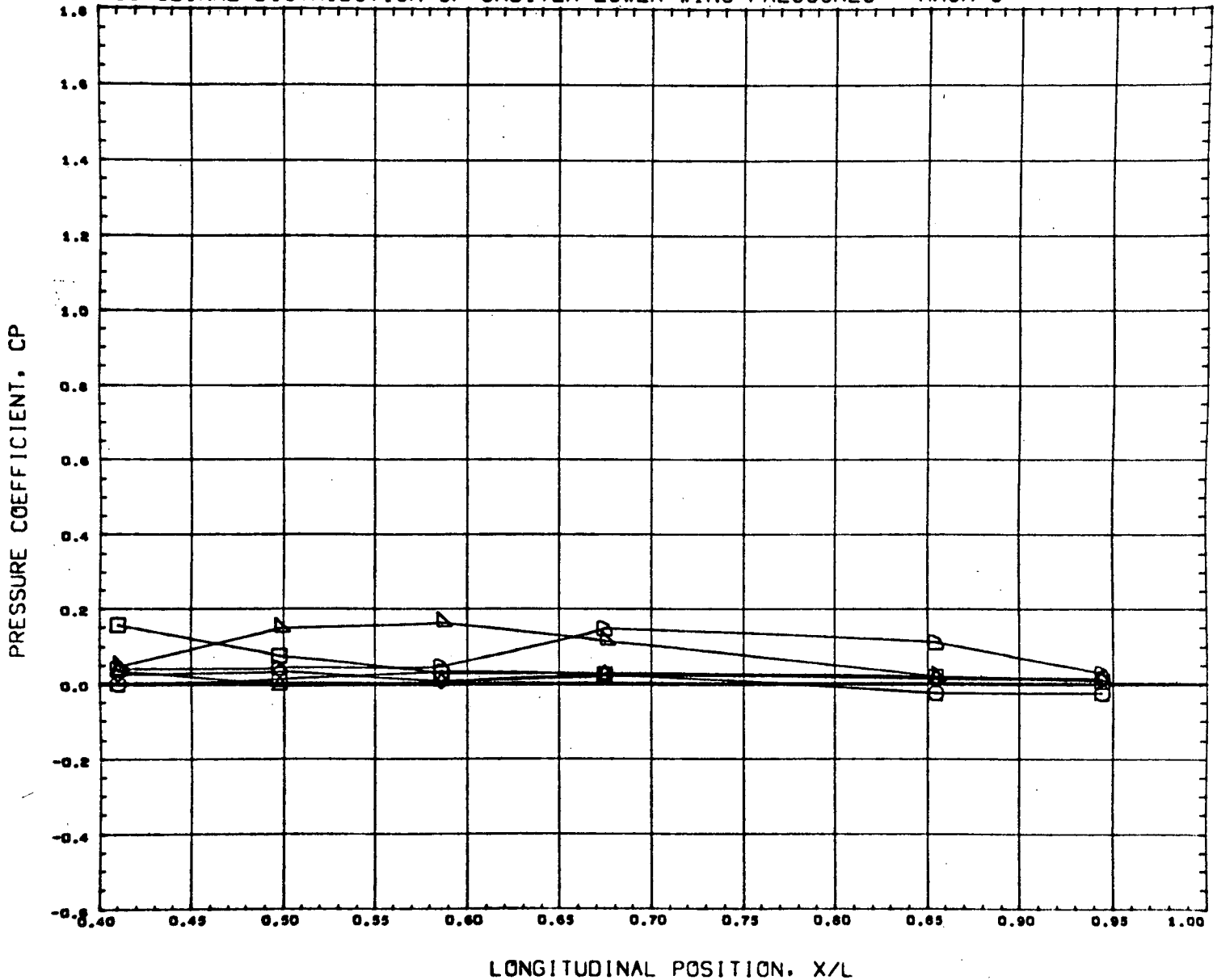


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.736	0.120
◊	0.143		
◊	0.020		
◊	0.103		
◊	0.227		
◊	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	0.050	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

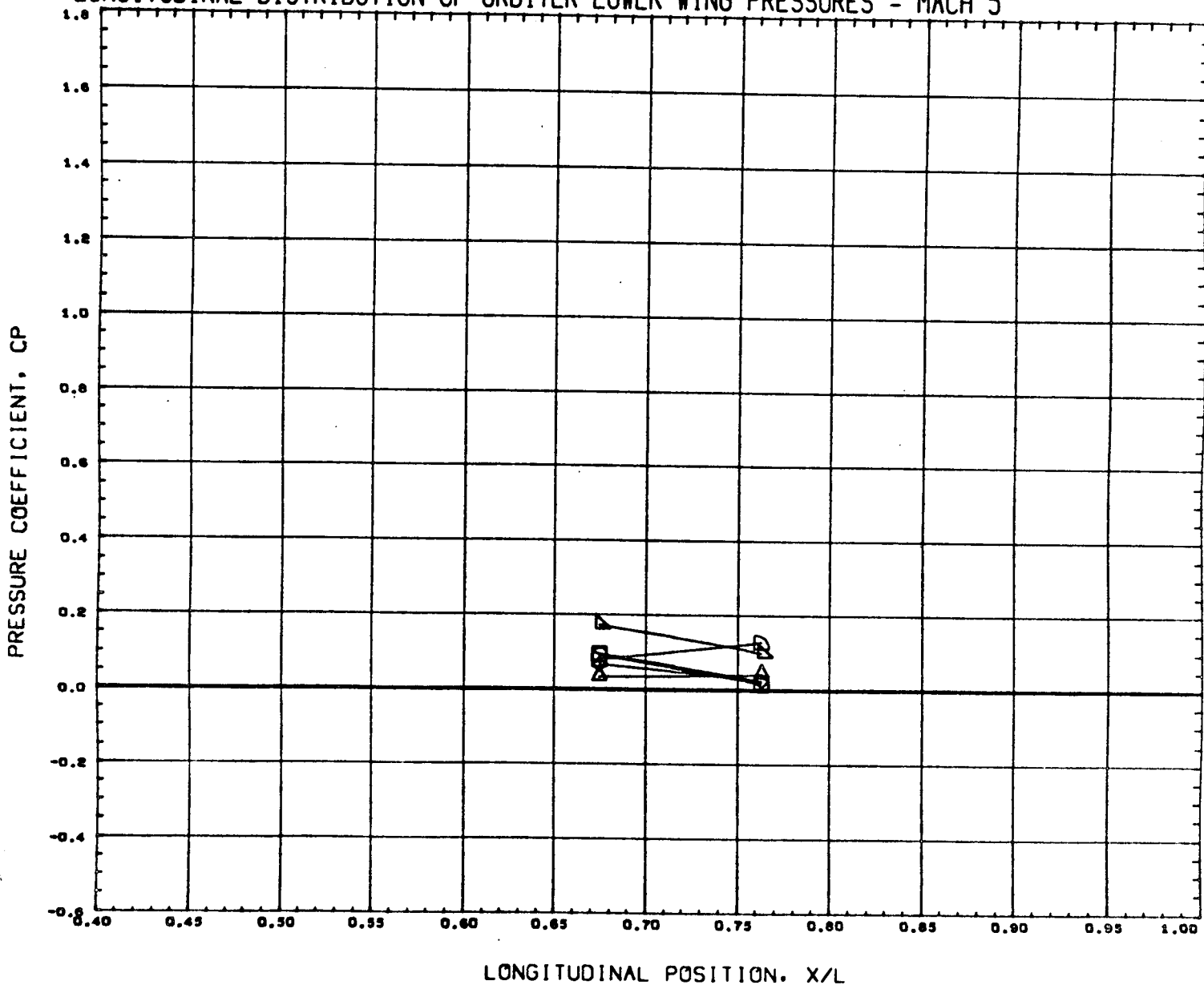


SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.230	0.151
△	0.143		
◇	0.020		
○	0.103		
▽	0.227		
	0.330		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	0.050	MACH 4.940
ALPHAT	0.000	ORBPOW 0.000
BSTPCW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

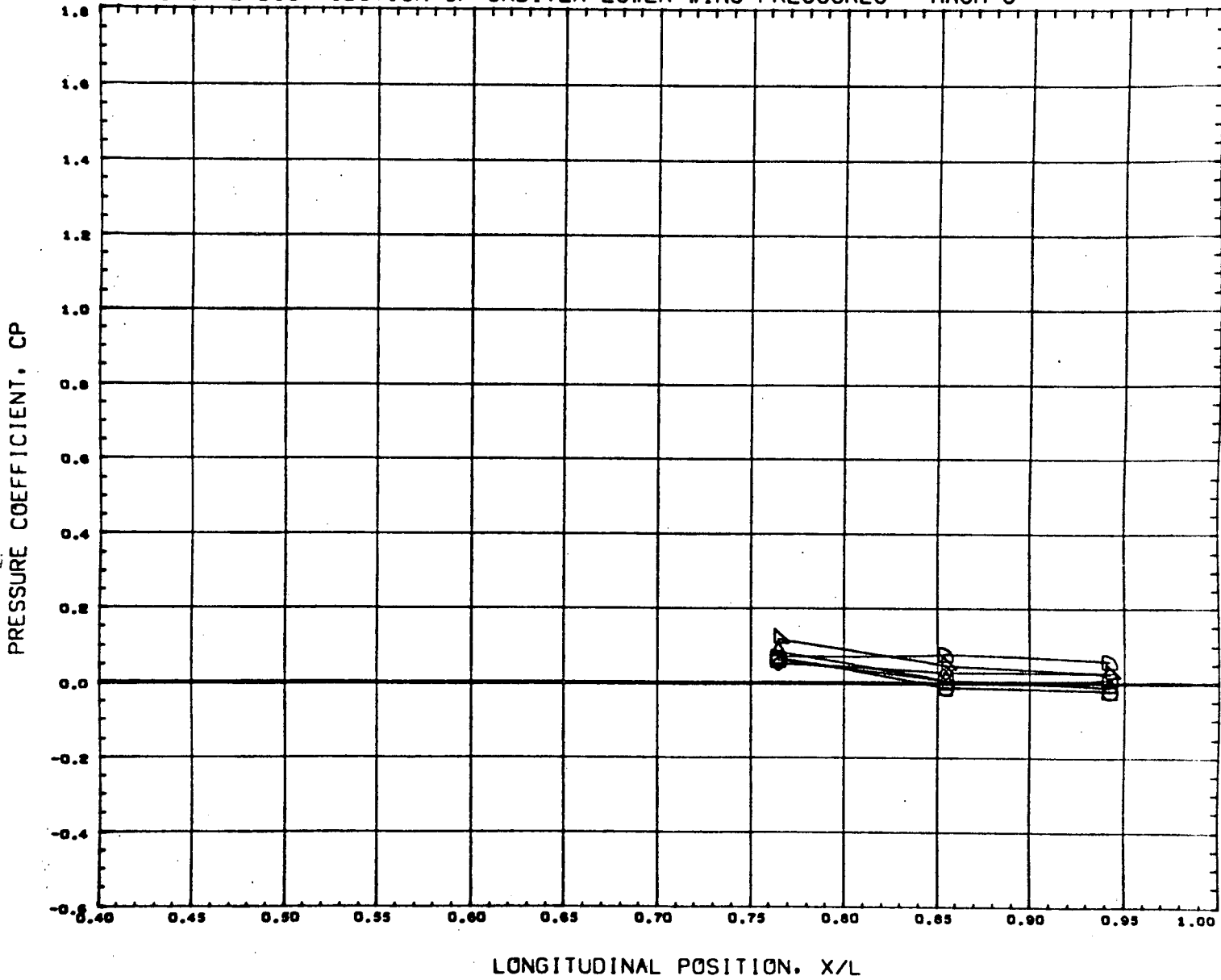


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.151
◇	0.143		
△	0.020		
□	0.103		
▽	0.227		
◇	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

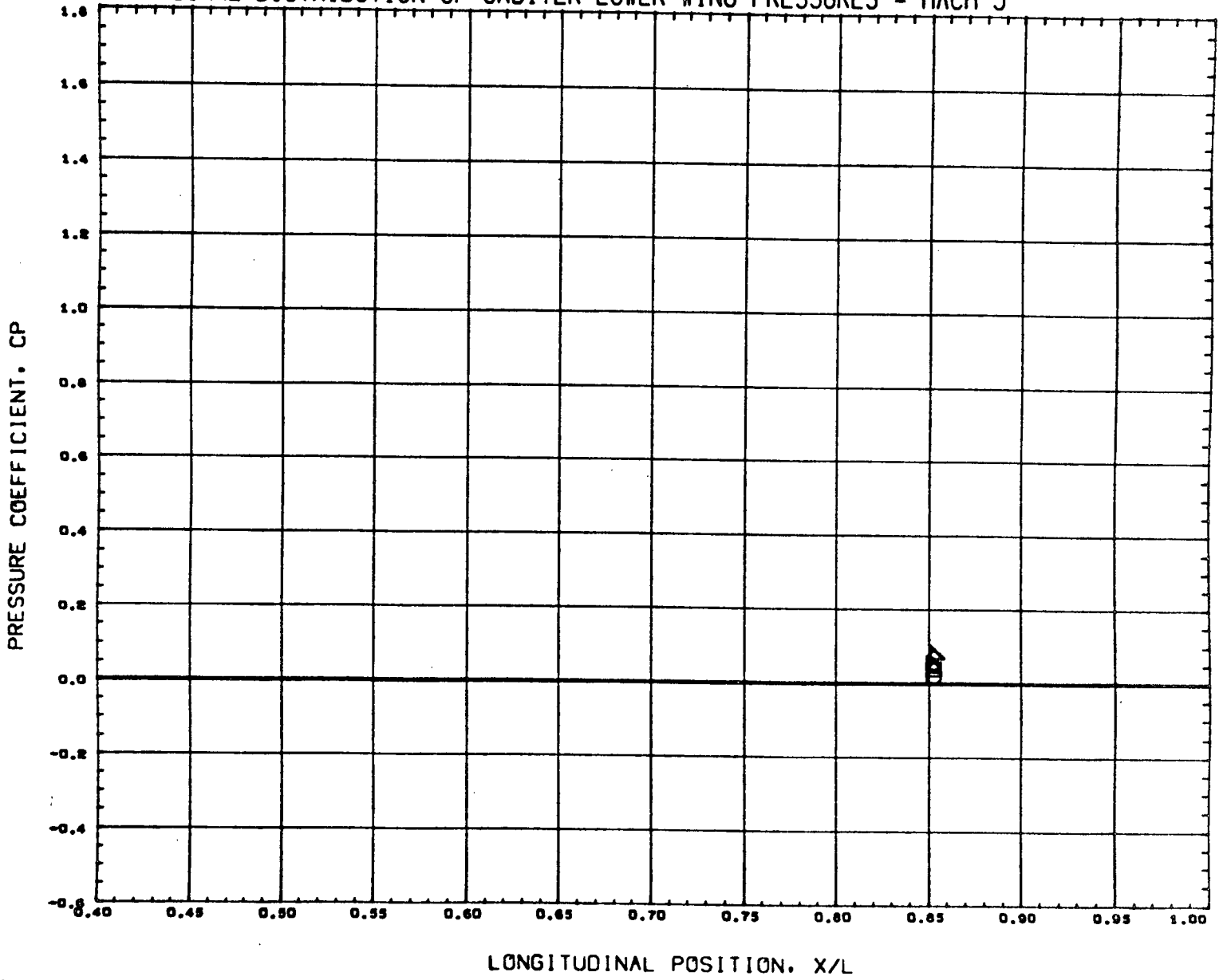
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.566	0.151
□	0.143		
△	0.020		
◇	0.103		
	0.227		
	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPCW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

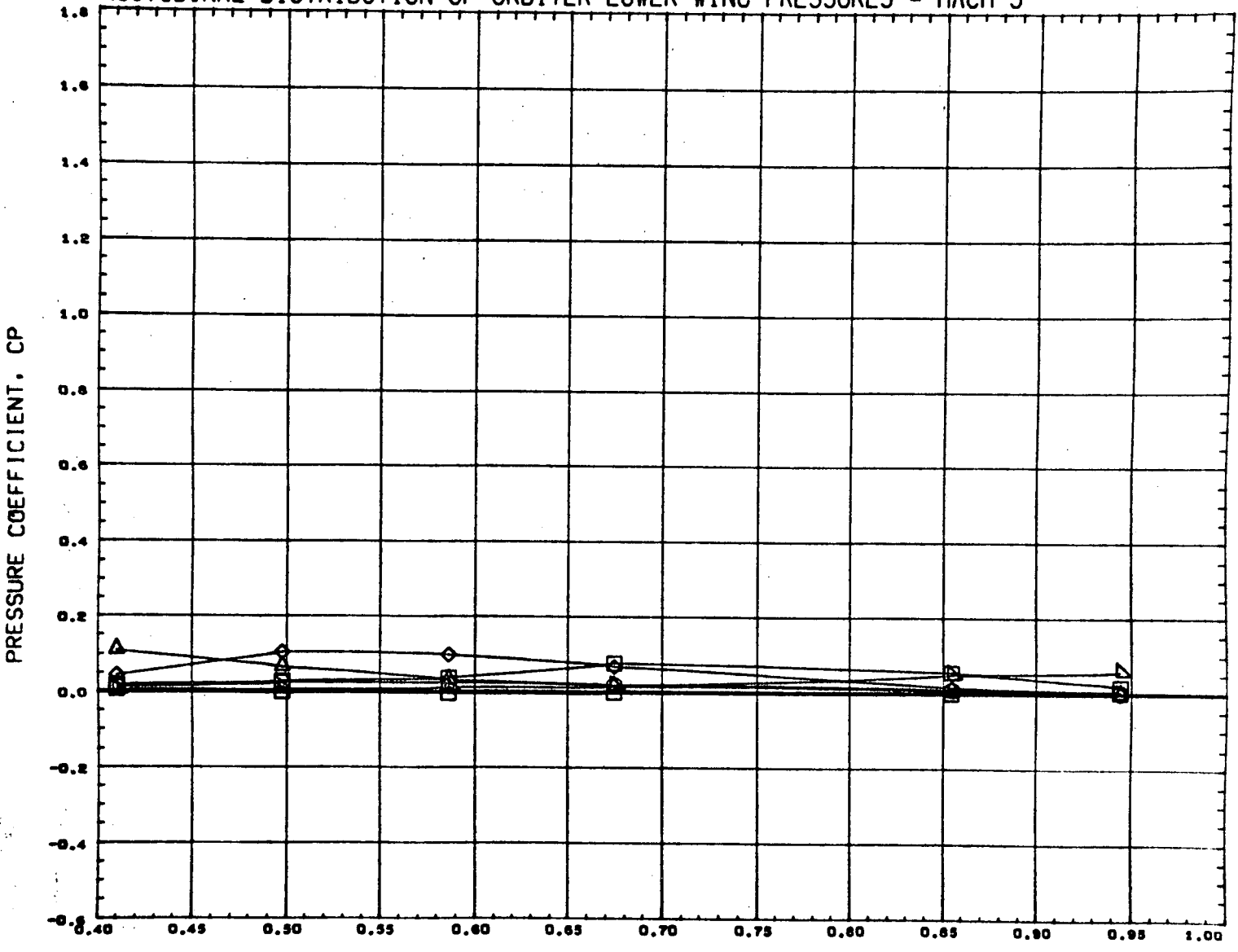


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.736	0.151
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.327		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

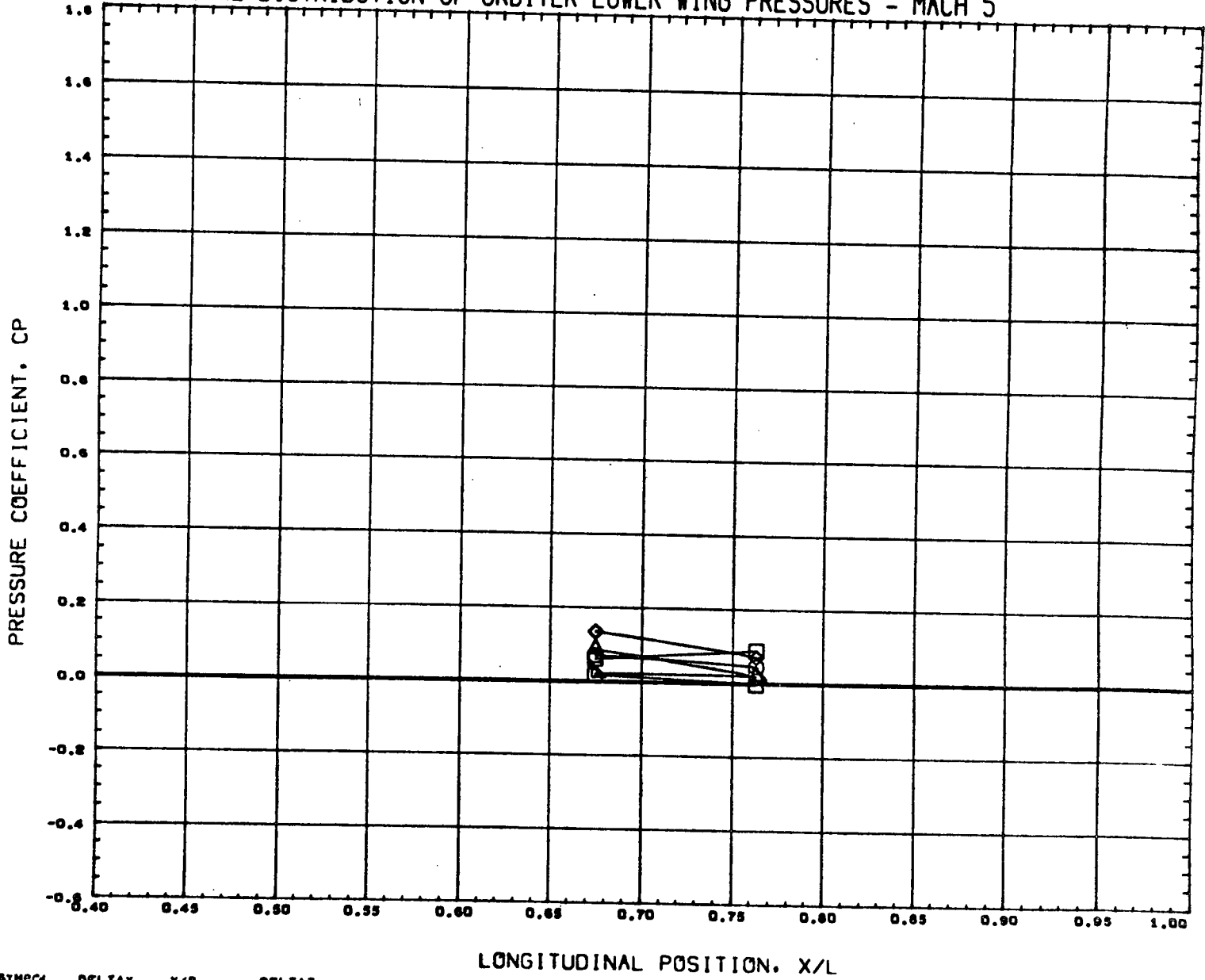


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.390	0.230	0.228
◇	0.143		
□	0.020		
○	0.103		
▽	0.227		
□	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
B&TPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

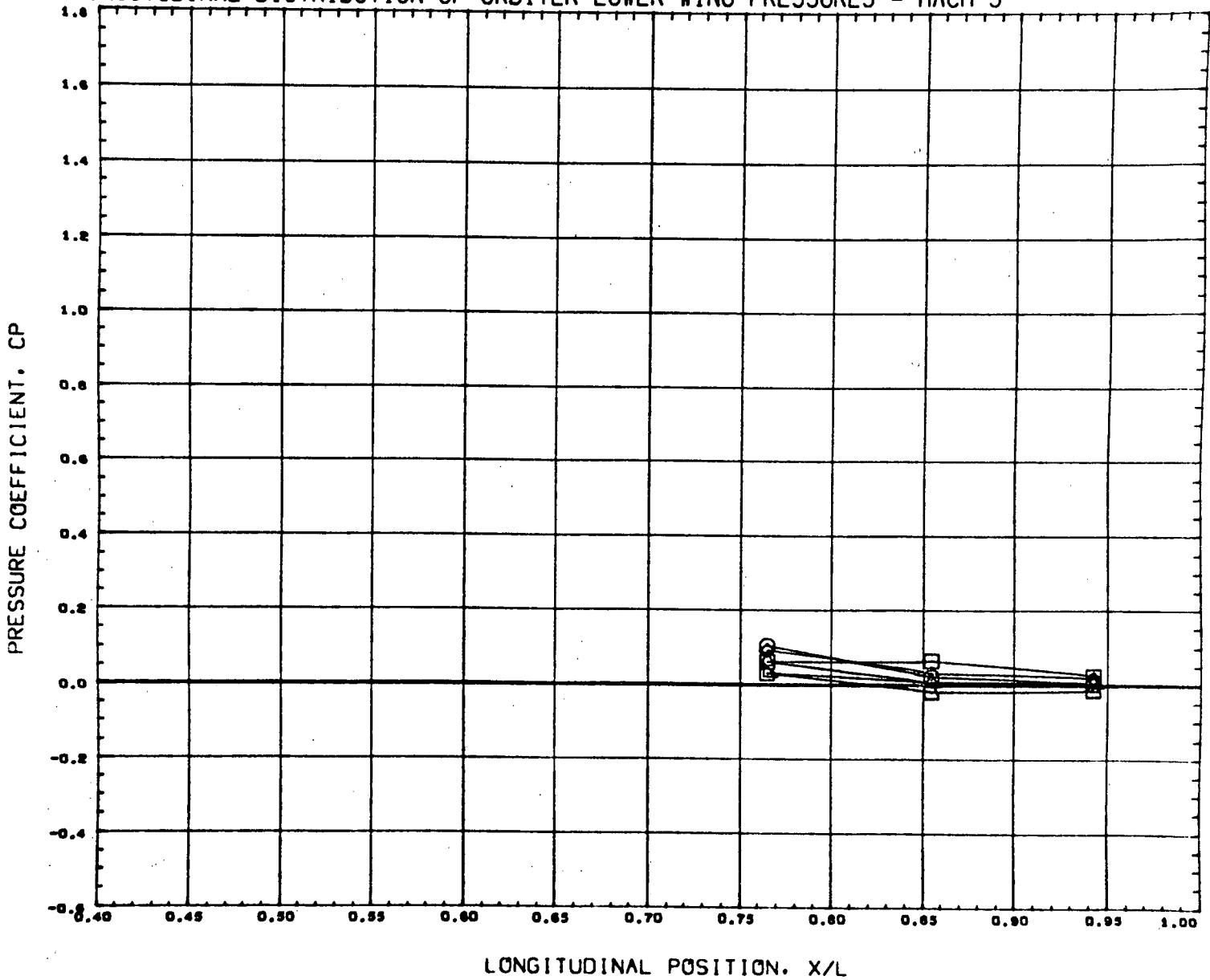


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.228
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

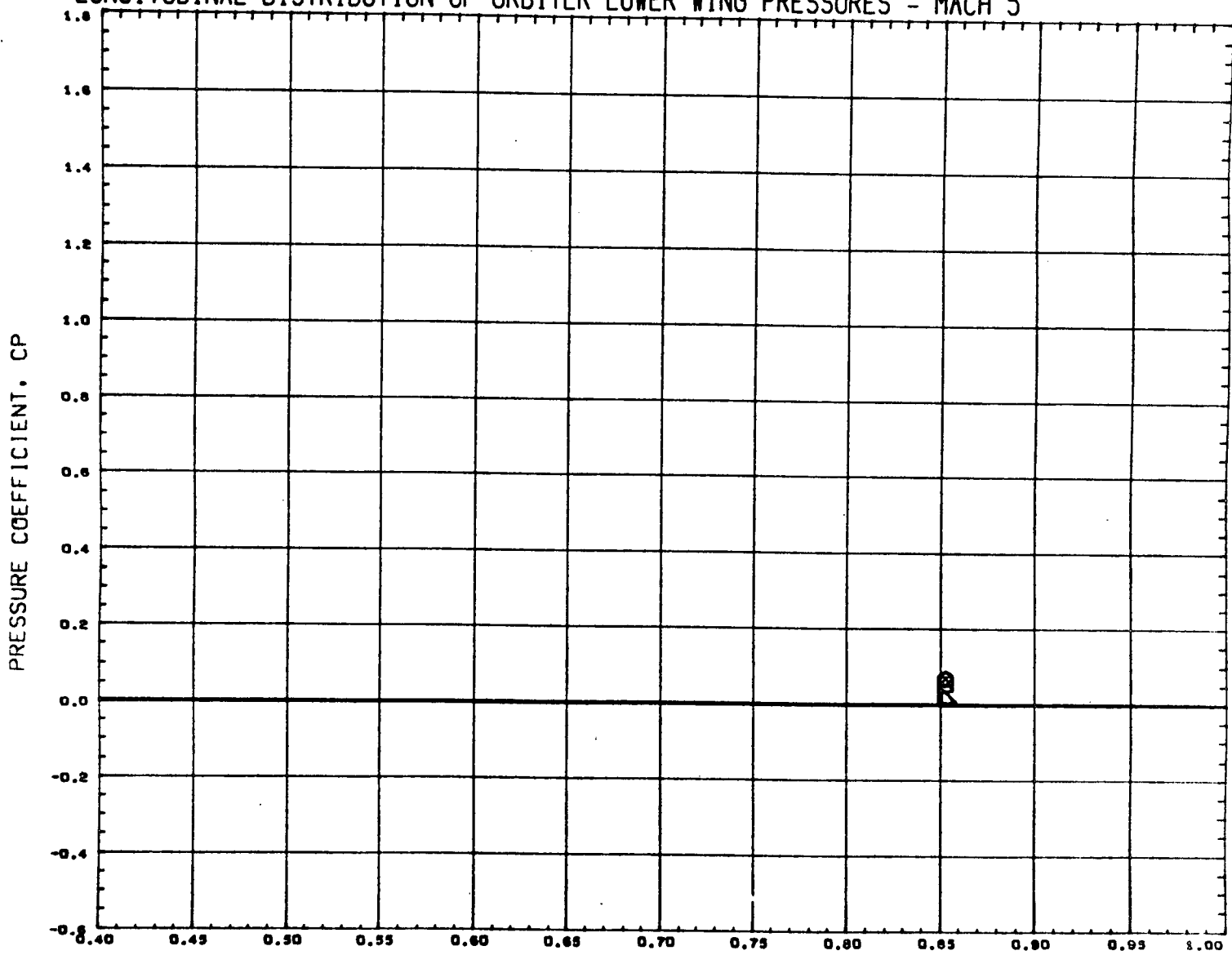


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.566	0.229
◇	0.143		
◇	0.020		
□	0.103		
△	0.227		
□	0.350	REFERENCE FILE	

PARAMETRIC VALUES		
ALPHAB	0.050	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



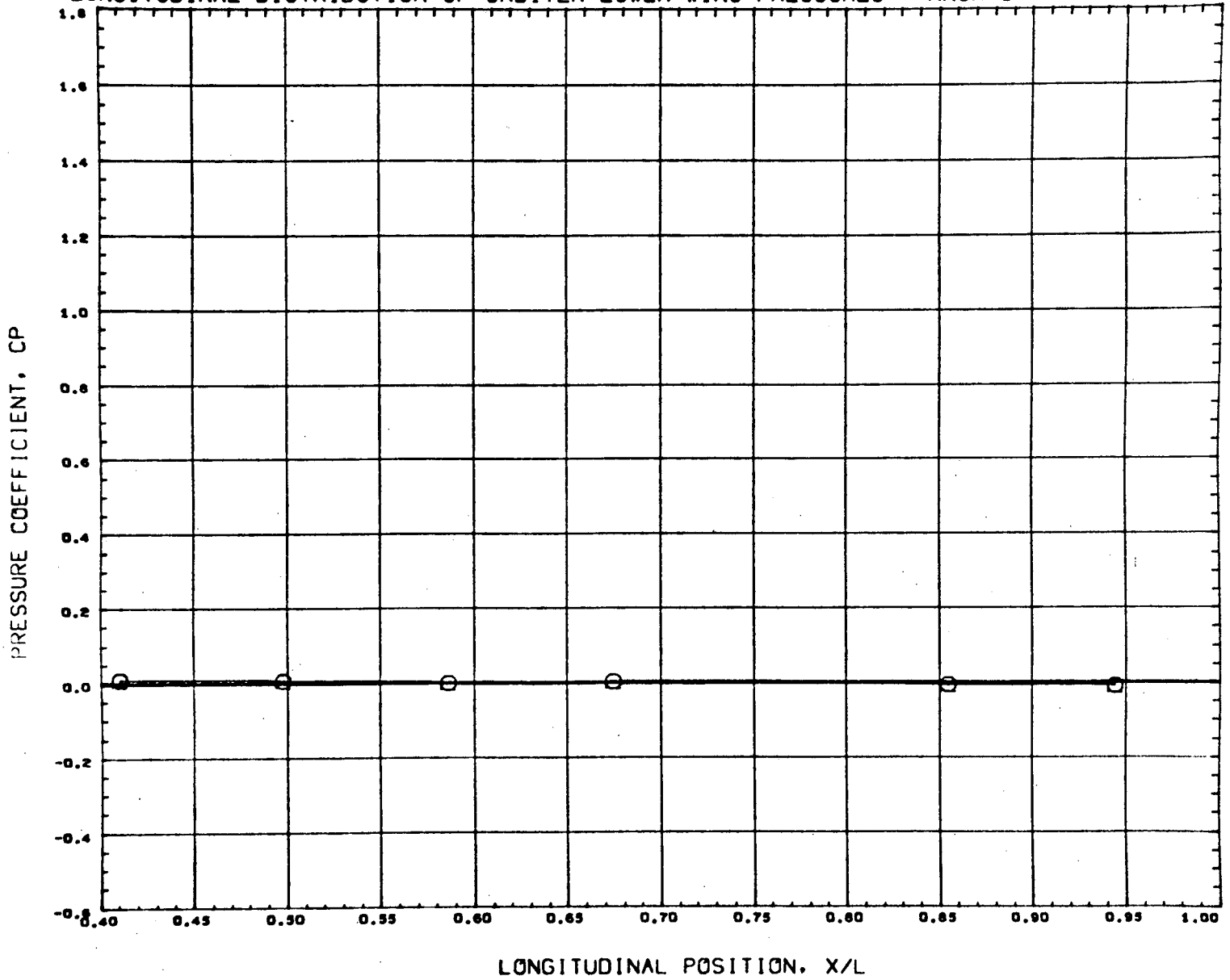
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.738	0.228
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.908

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

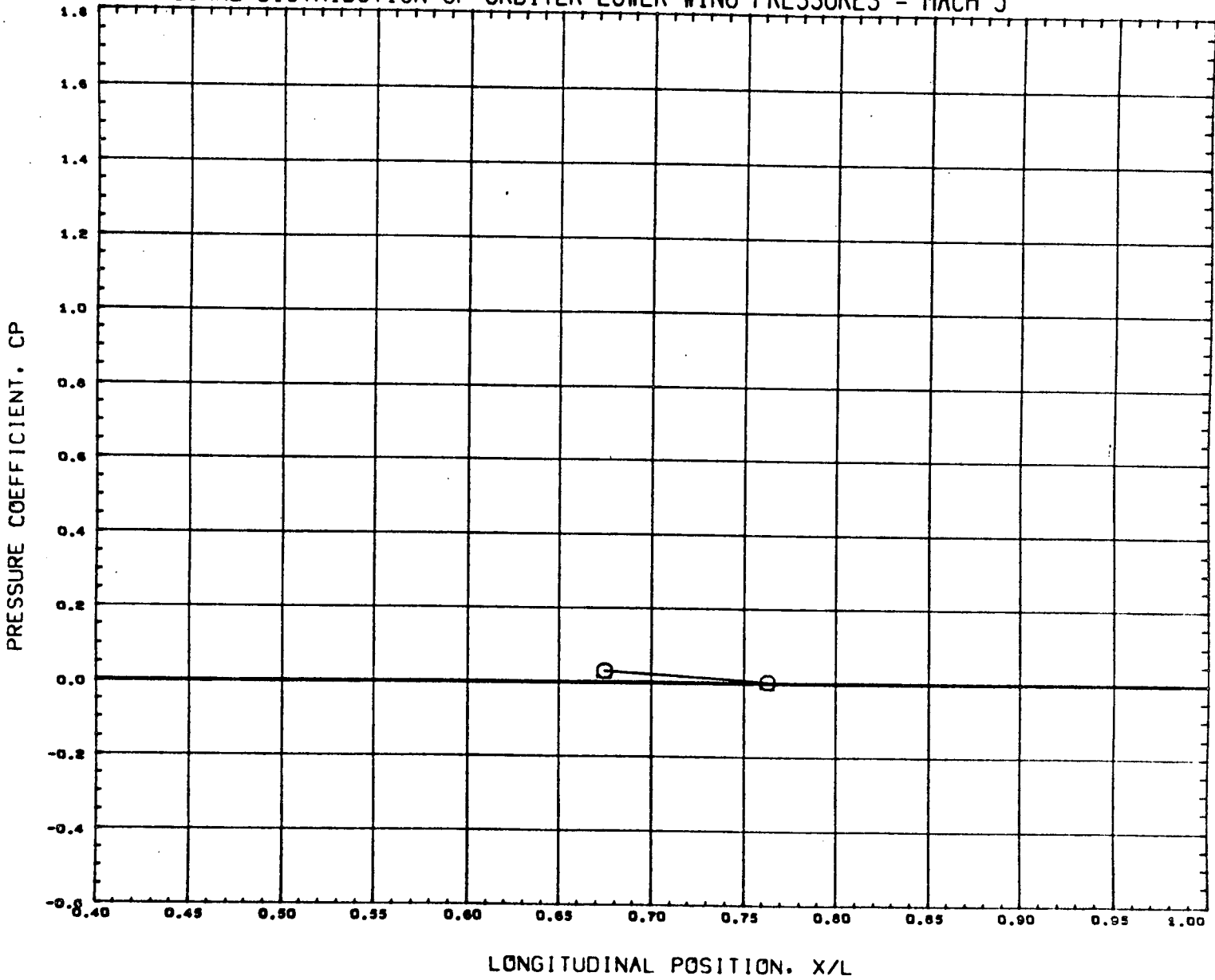
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.909

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

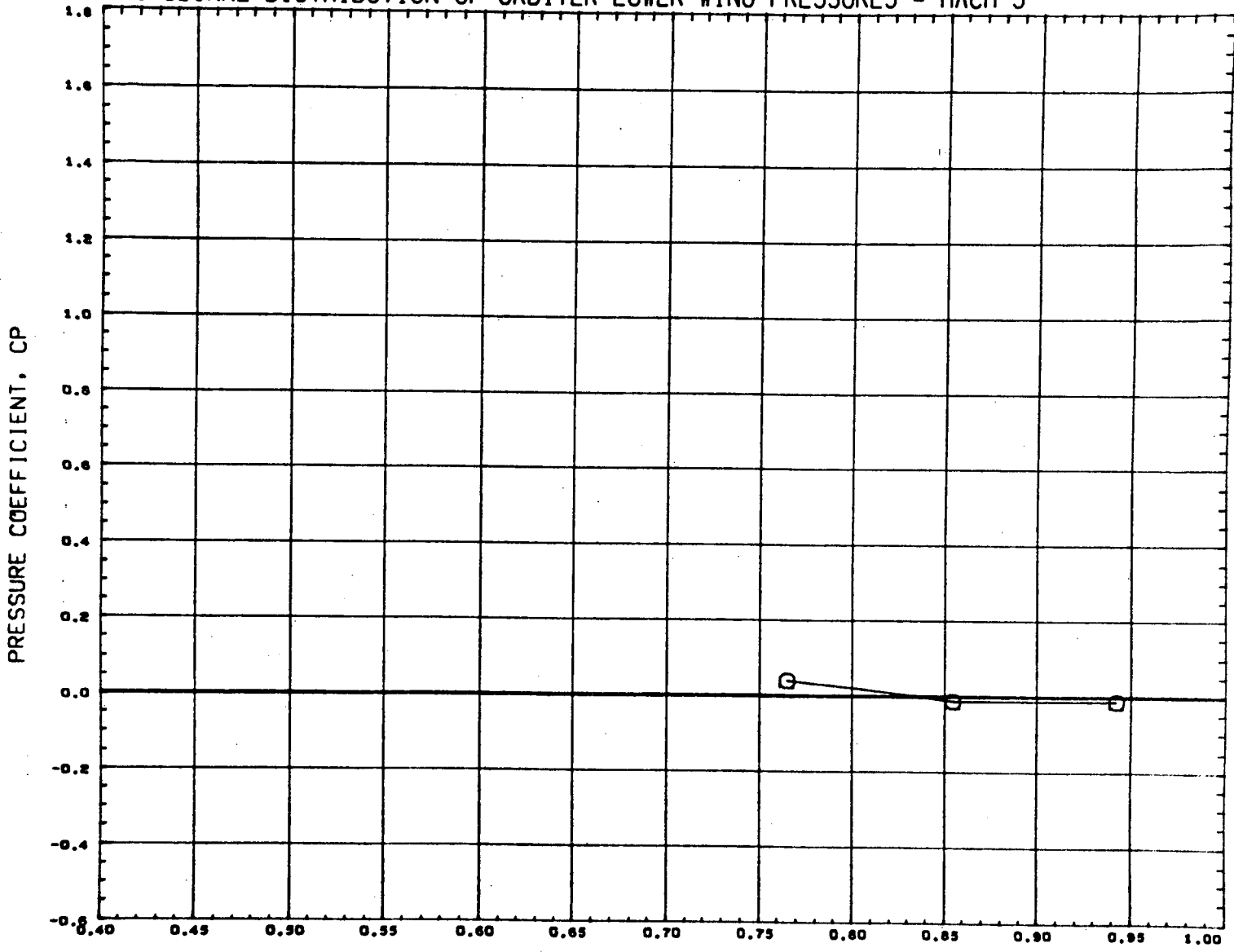
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.120	0.366	0.906

PARAMETRIC VALUES			
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ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

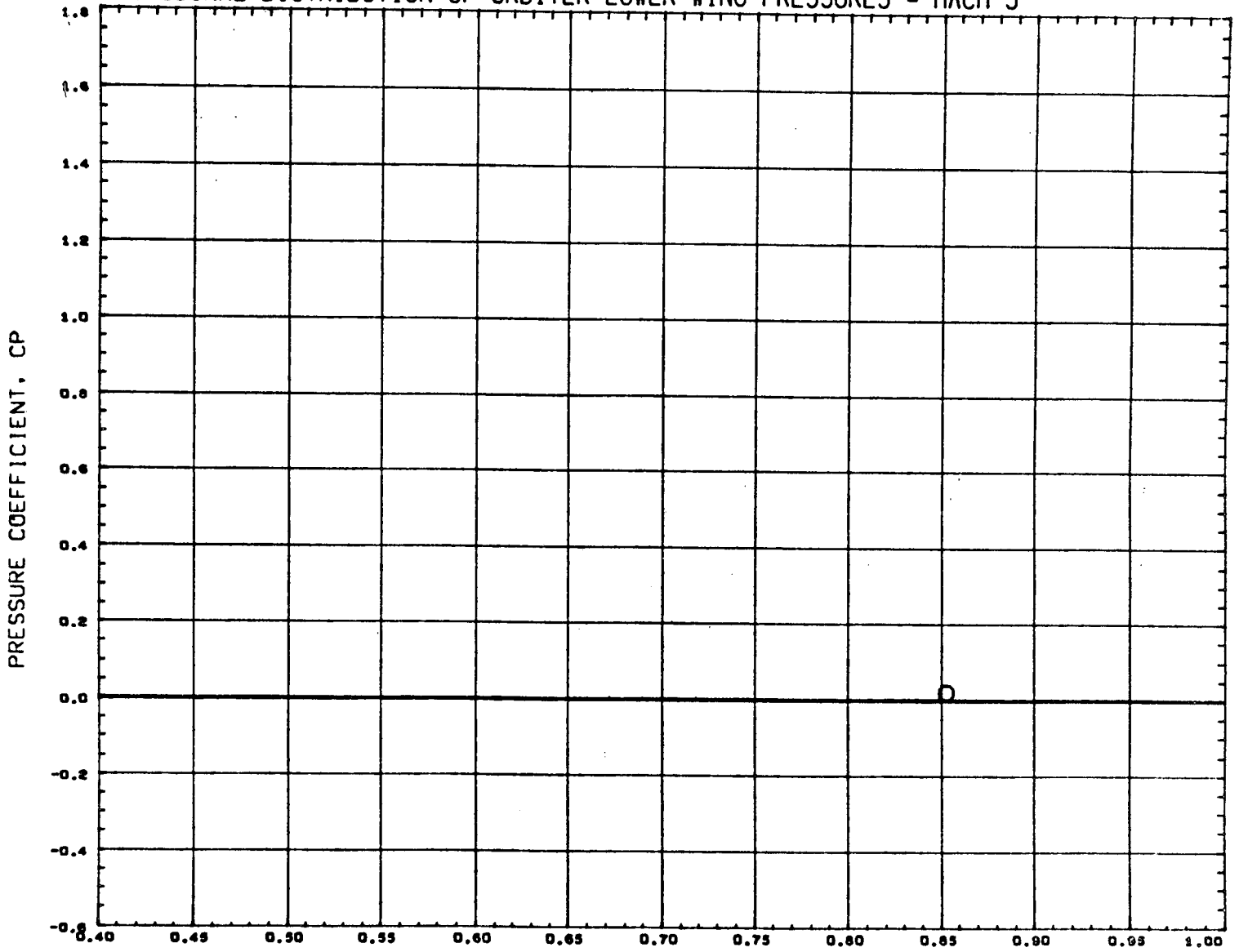
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.739	0.909

PARAMETRIC VALUES			
ALPHAB	0.030	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

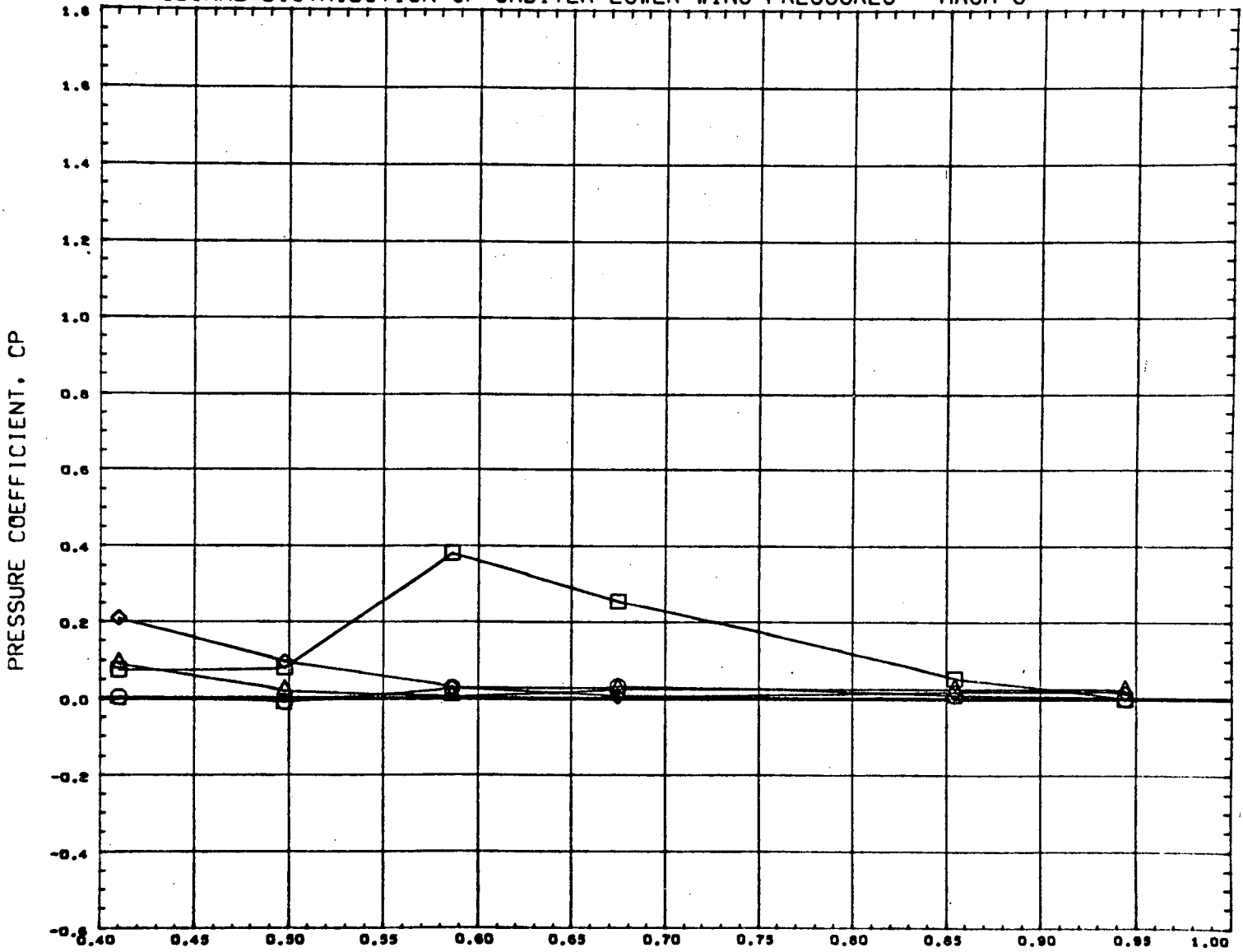
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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



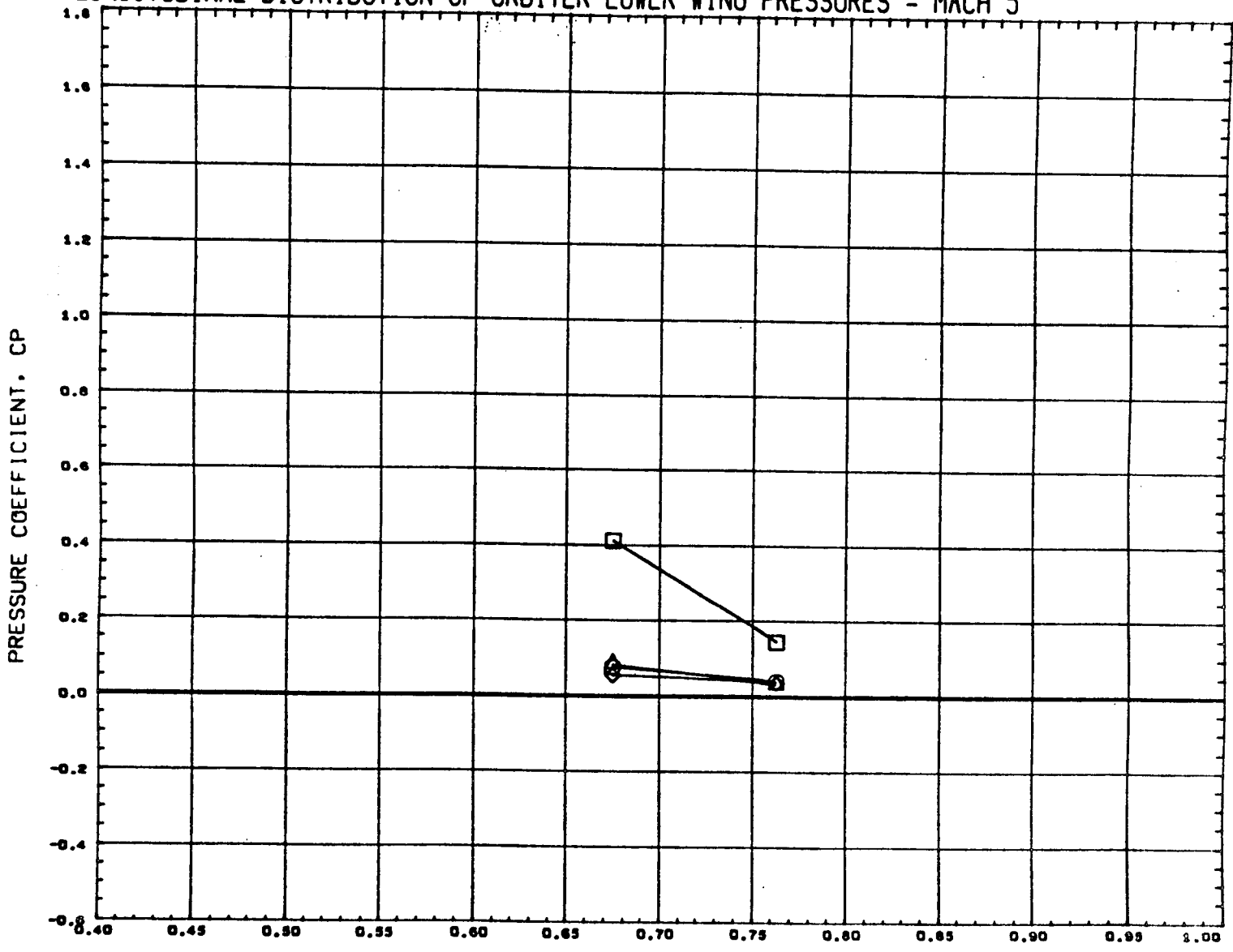
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
◇	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

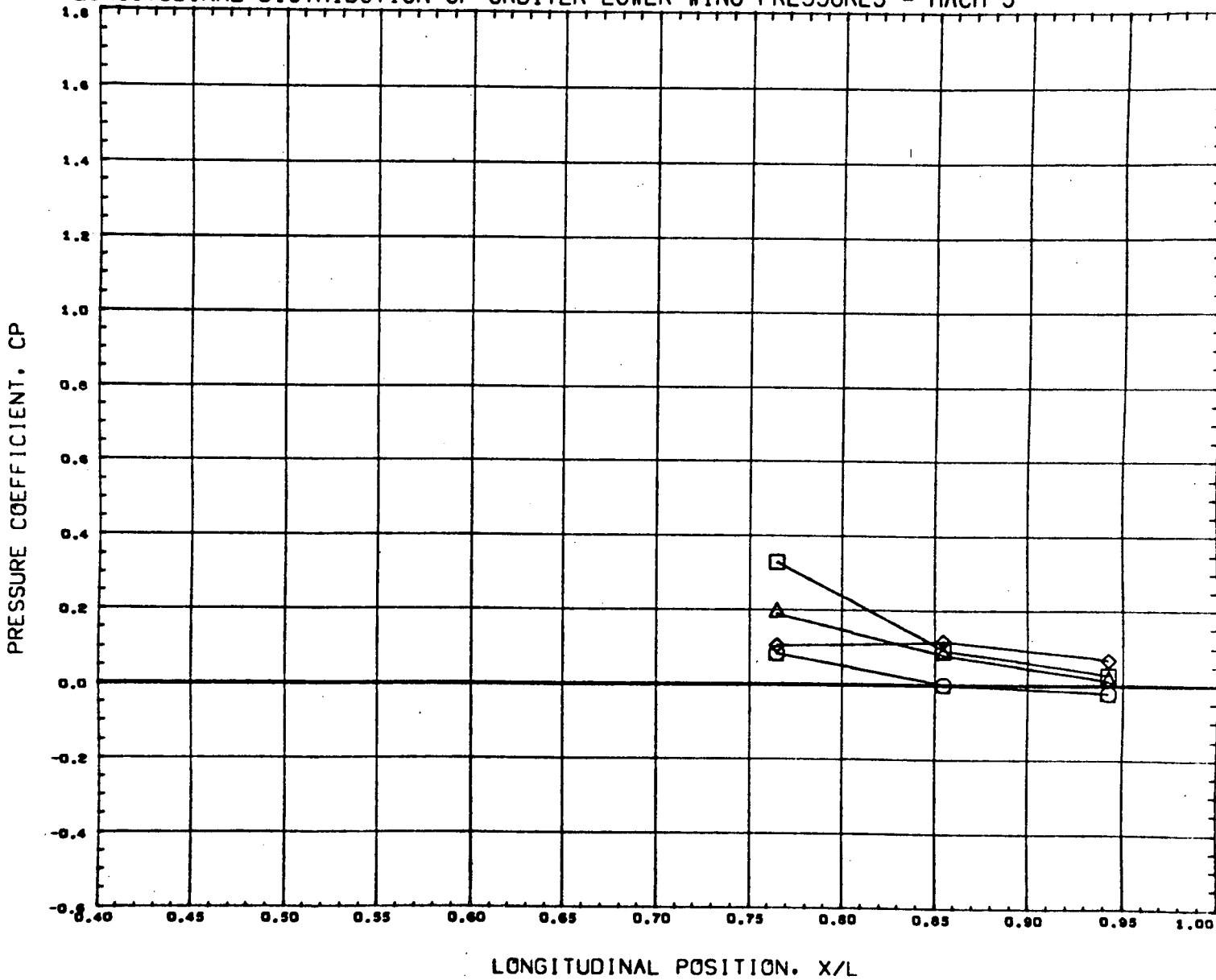
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

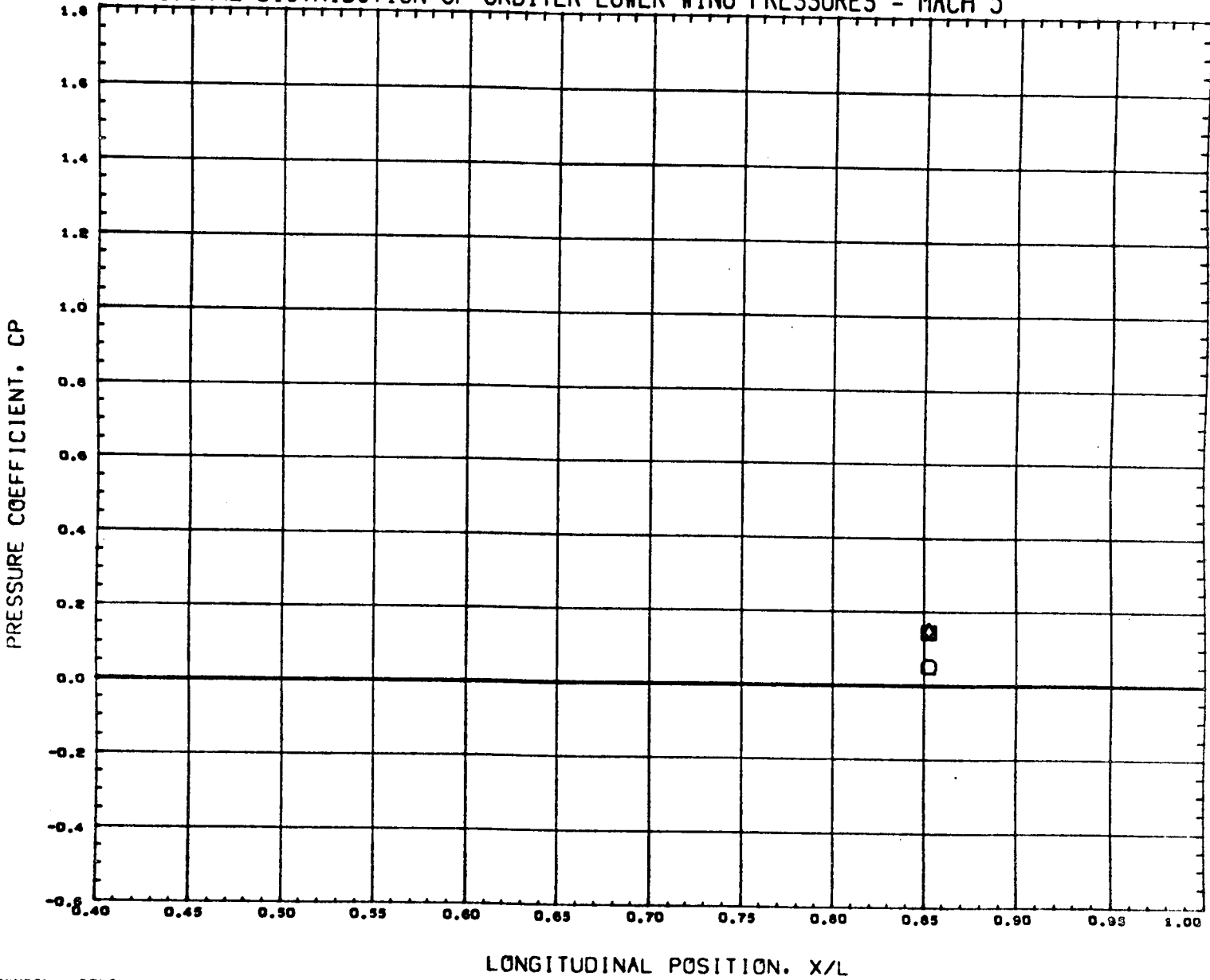


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.569	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.739	0.114
△	0.103		
◇	0.165		
□	0.390		

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

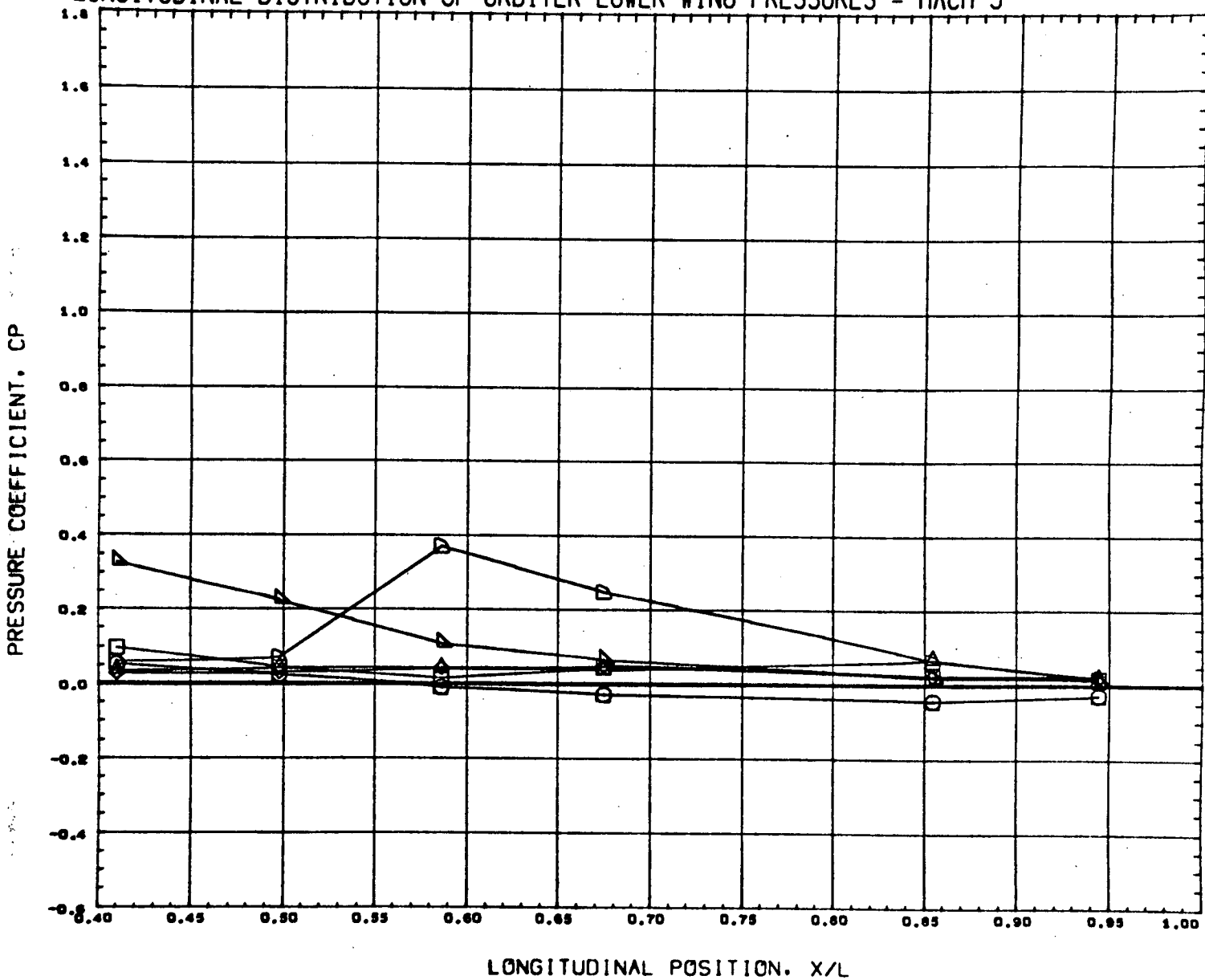
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

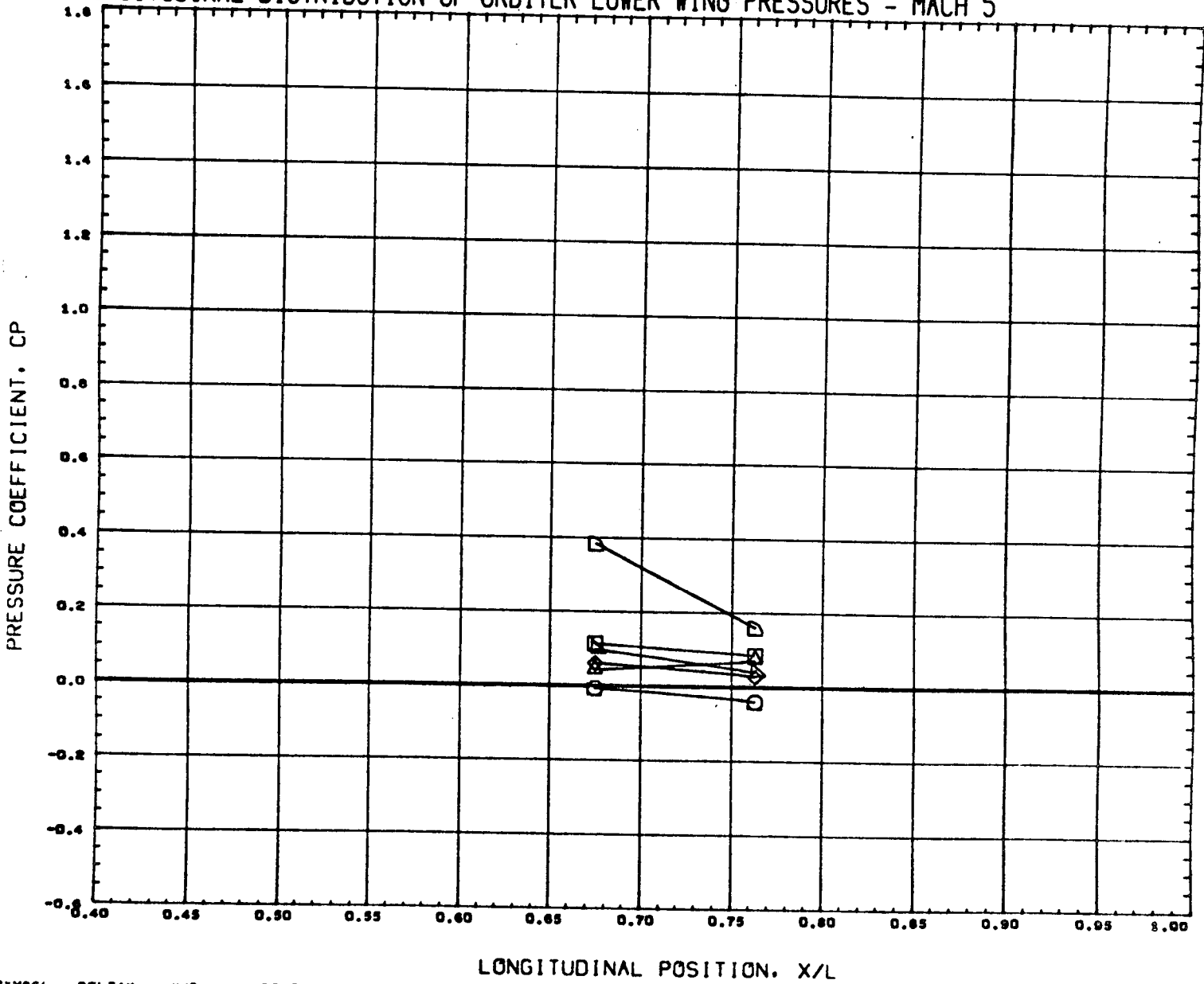


SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.230	0.120
◇	0.143		
△	0.020		
○	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

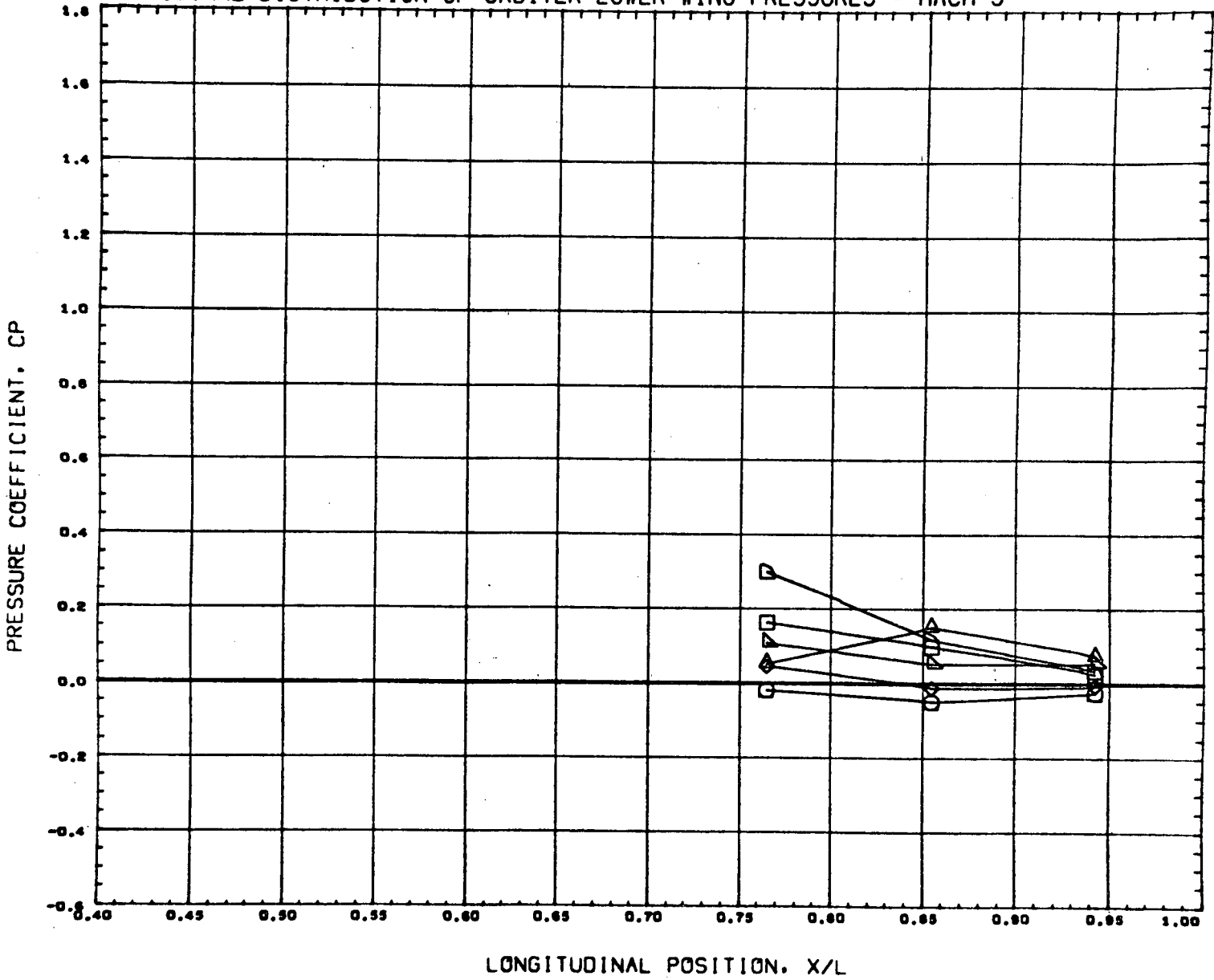


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.120
◇	0.143		
△	0.020		
□	0.103		
◇	0.227		
□	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

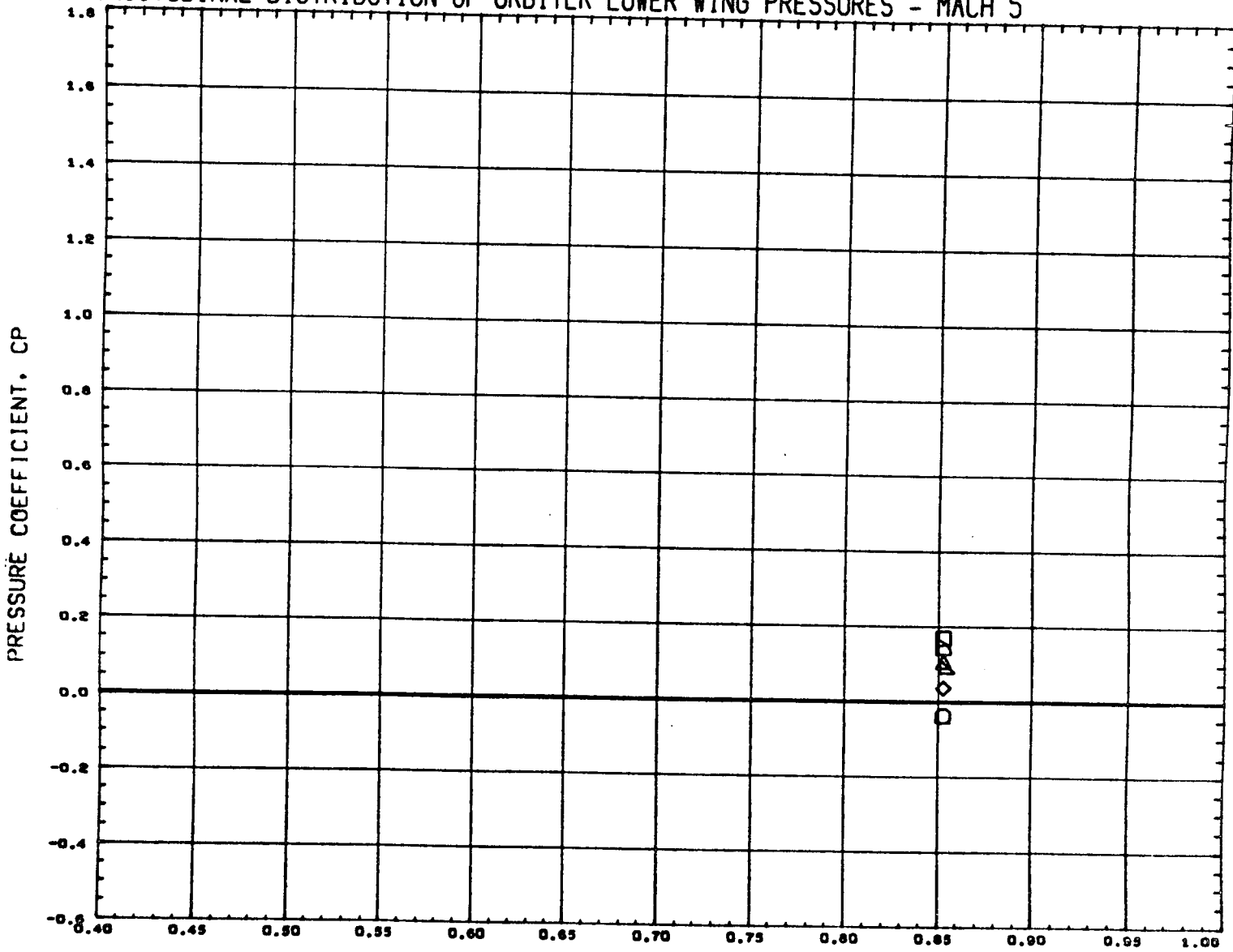


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.369	0.120
○	0.143		
◇	0.020		
▽	0.103		
△	0.227		
○	0.350	REFERENCE FILE	

PARAMETRIC VALUES		
ALPHAB	3.020	MACH 4.940
ALPHA1	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



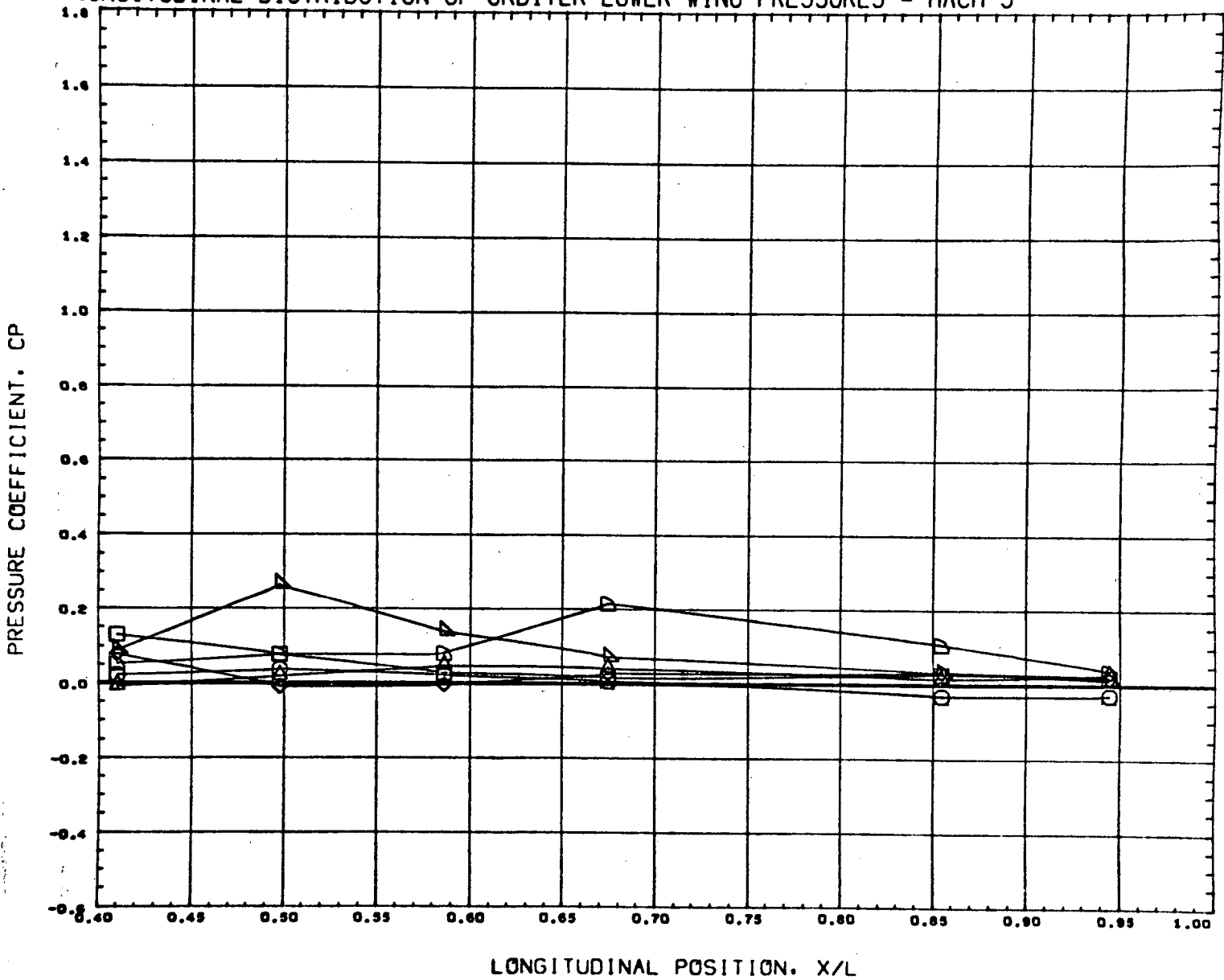
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
◇	0.390	0.738	0.120
□	0.143		
△	0.020		
○	0.103		
	0.227		
	0.350		

REFERENCE FILE

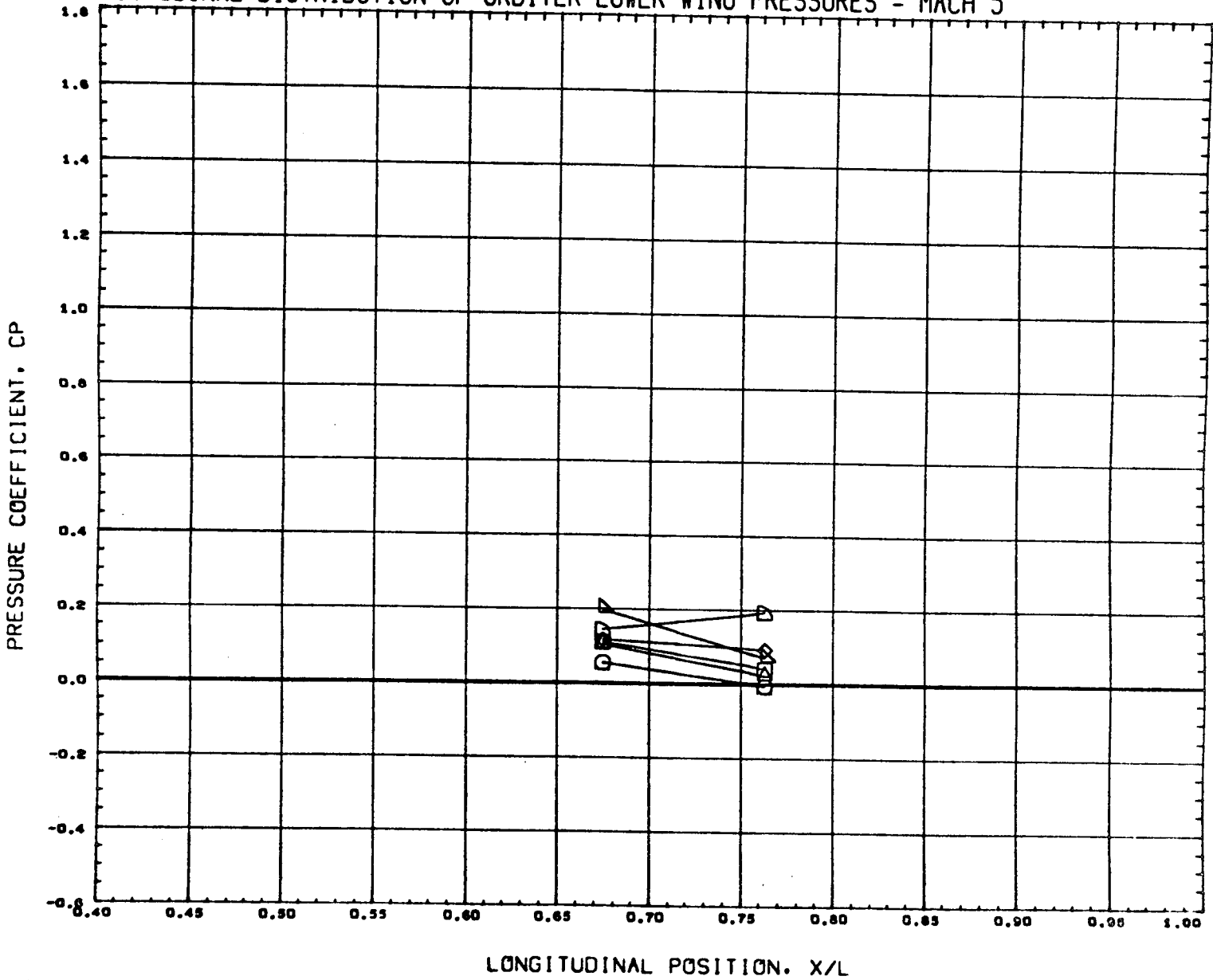
PARAMETRIC VALUES			
ALPHAB	3.020	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z	PARAMETRIC VALUES			
□	0.390	0.230	0.151	ALPHAB	5.020	MACH	4.940
◇	0.143			ALPHA I	0.000	ORBPOW	0.000
△	0.020			BSTPOW	0.000		
○	0.103						
▽	0.227						
	0.330						
		REFERENCE FILE					

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

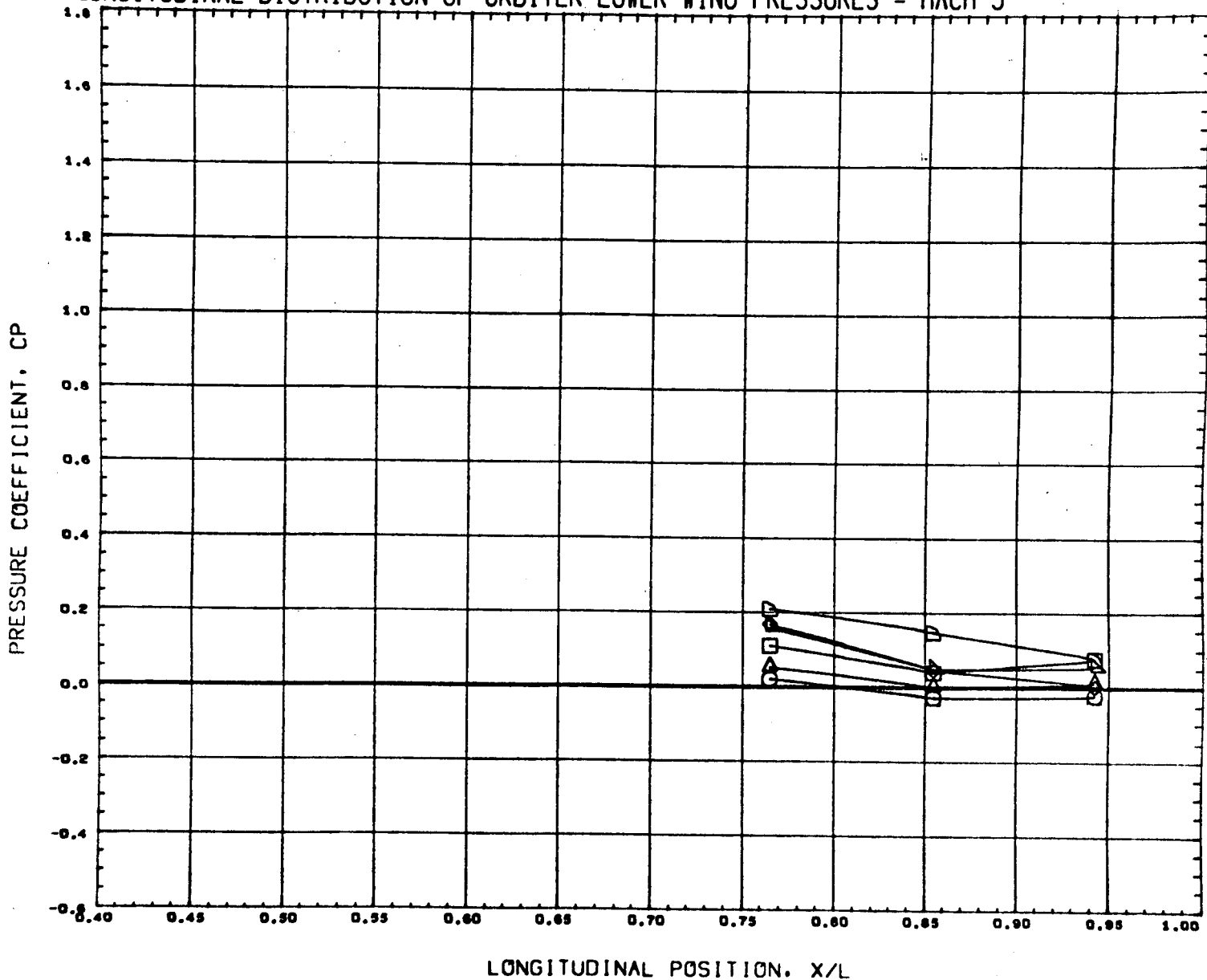


SYMBOL	DELTA X	Y/B	DELTA Z
◻	0.390	0.399	0.151
◊	0.143		
◇	0.020		
◻	0.103		
◻	0.227		
◻	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA1	0.000	ORGP0W	0.000
BSTP0W	0.000		

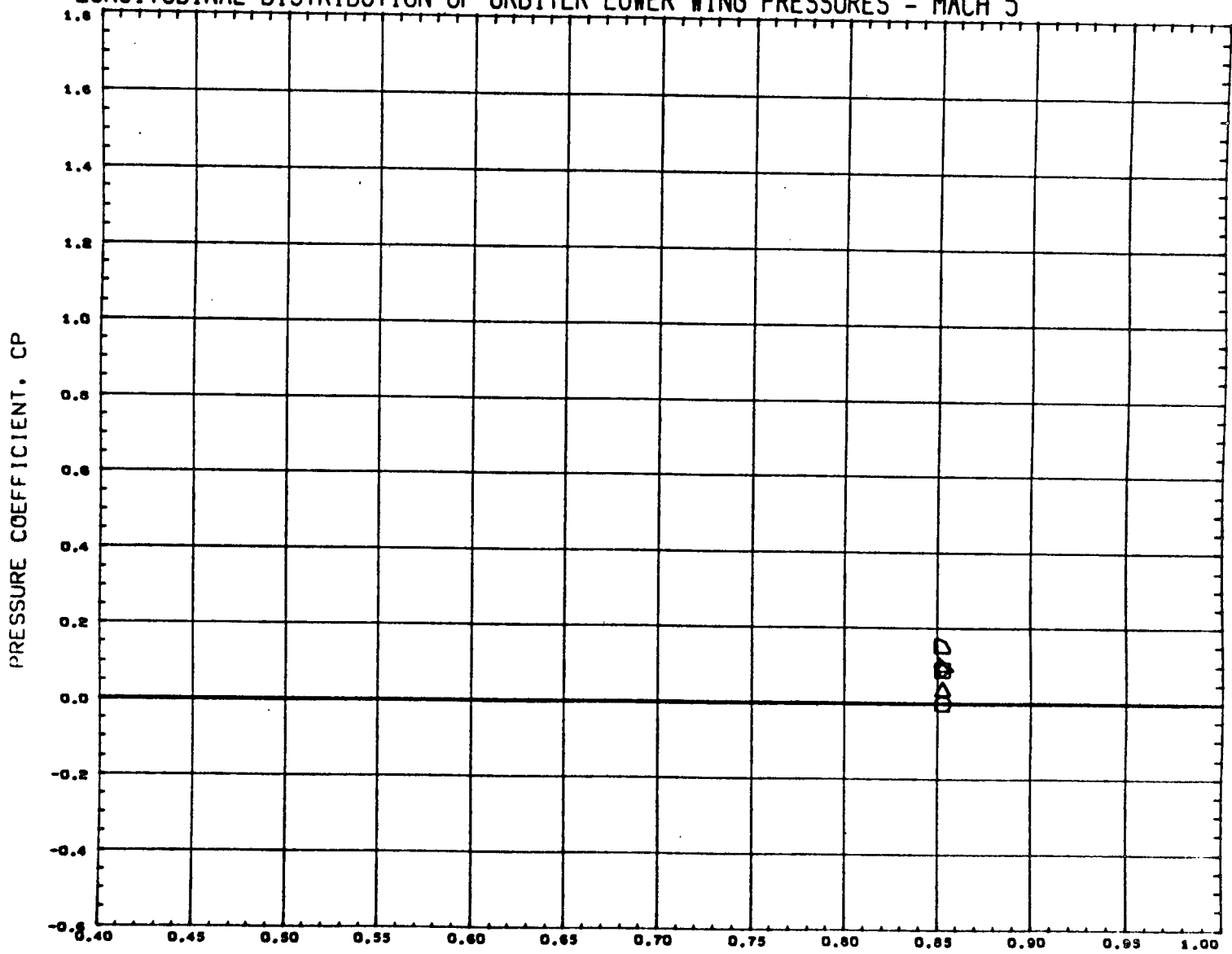
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.390	0.566	0.151
△	- 0.143		
◇	- 0.020		
□	0.103		
◇	0.227		
□	0.350	REFERENCE FILE	

PARAMETRIC VALUES		
ALPHAB	5.020	MACH 4.940
ALPHA I	0.000	ORBPOW 0.000
BSTPOW	0.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

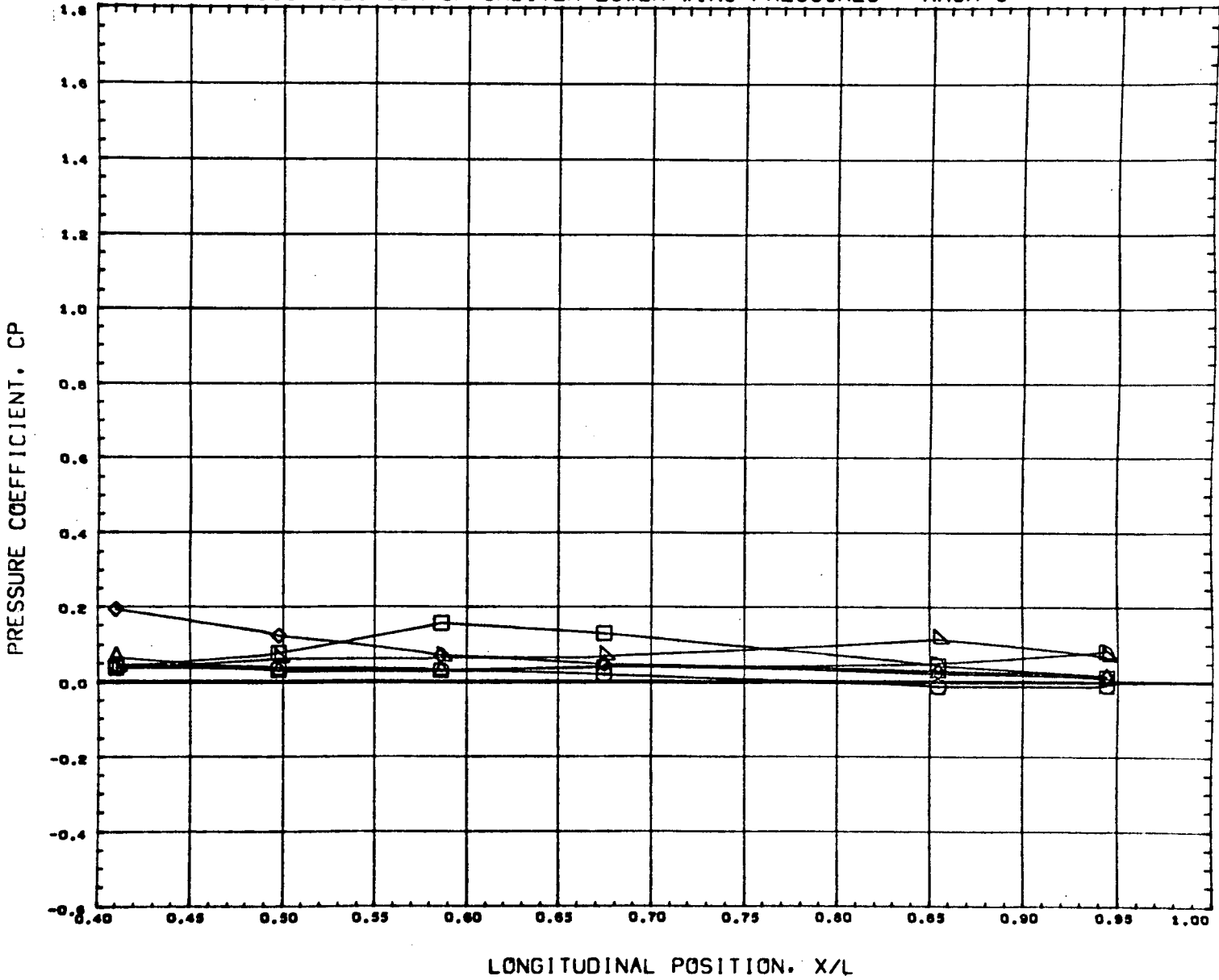


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
◇	0.390	0.730	0.151
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

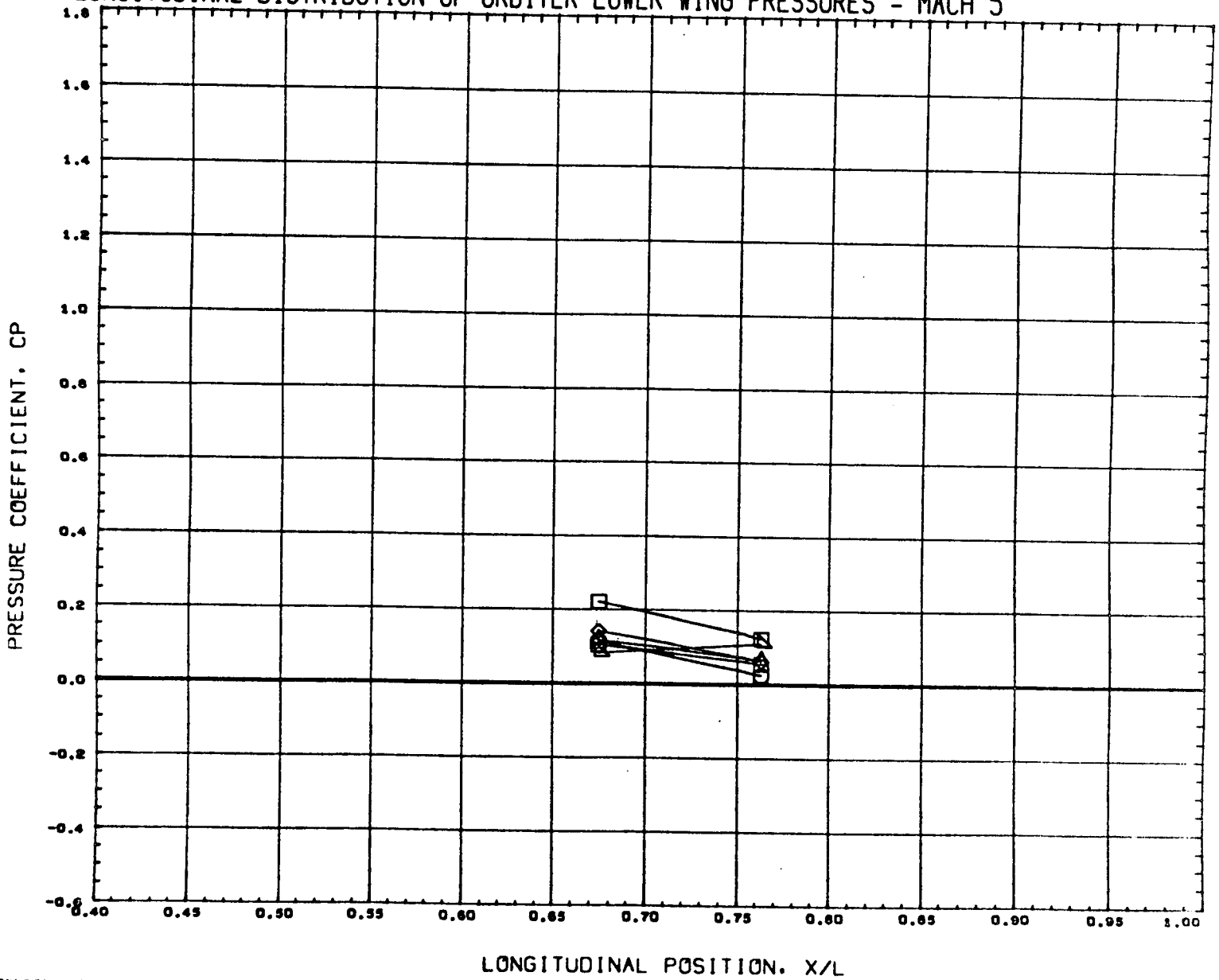


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
◇	0.390	0.230	0.226
□	0.143		
△	0.020		
○	0.103		
▽	0.227		
	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

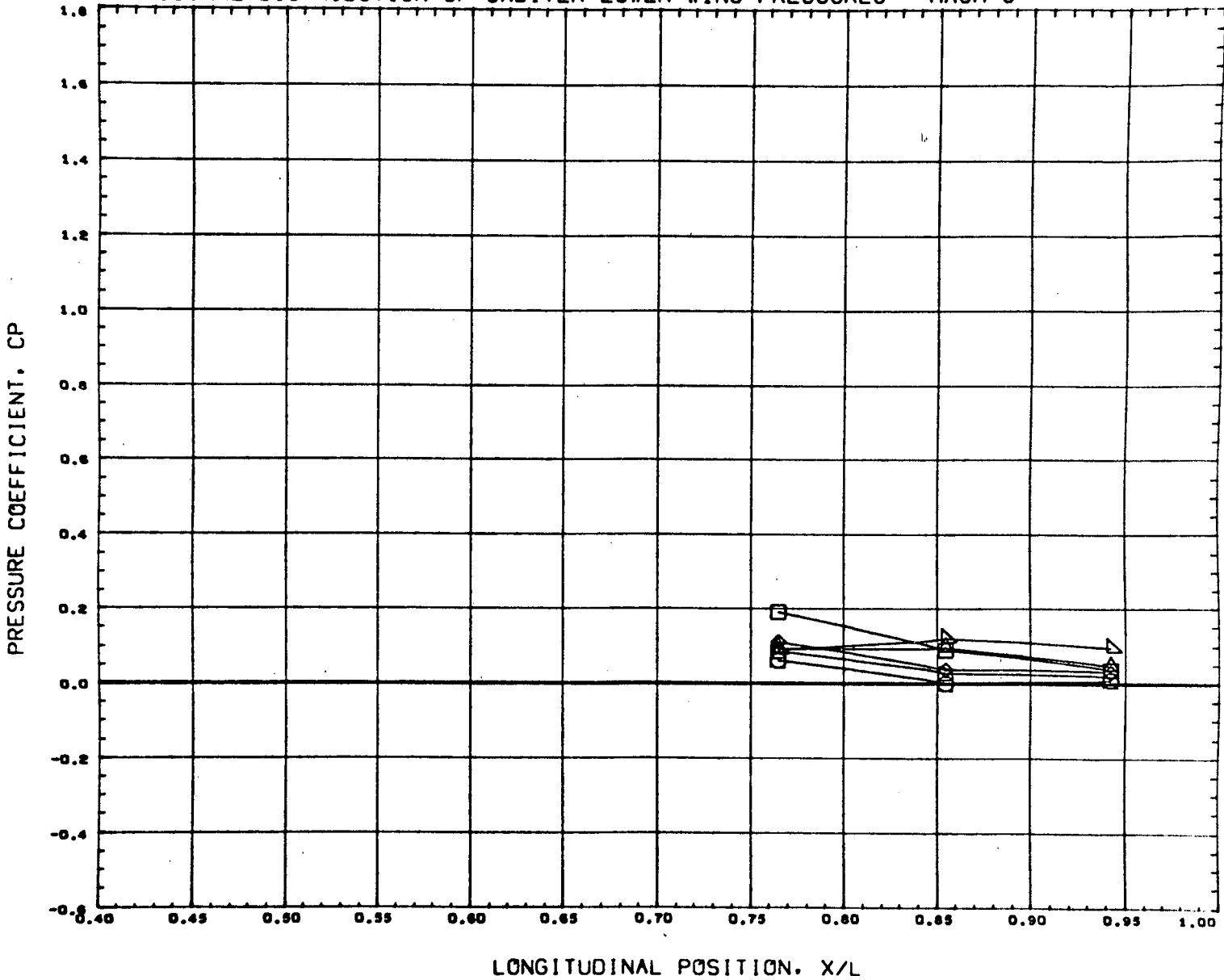


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.229
△	0.143		
◇	0.020		
◊	0.103		
◓	0.227		
◔	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	9.020	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



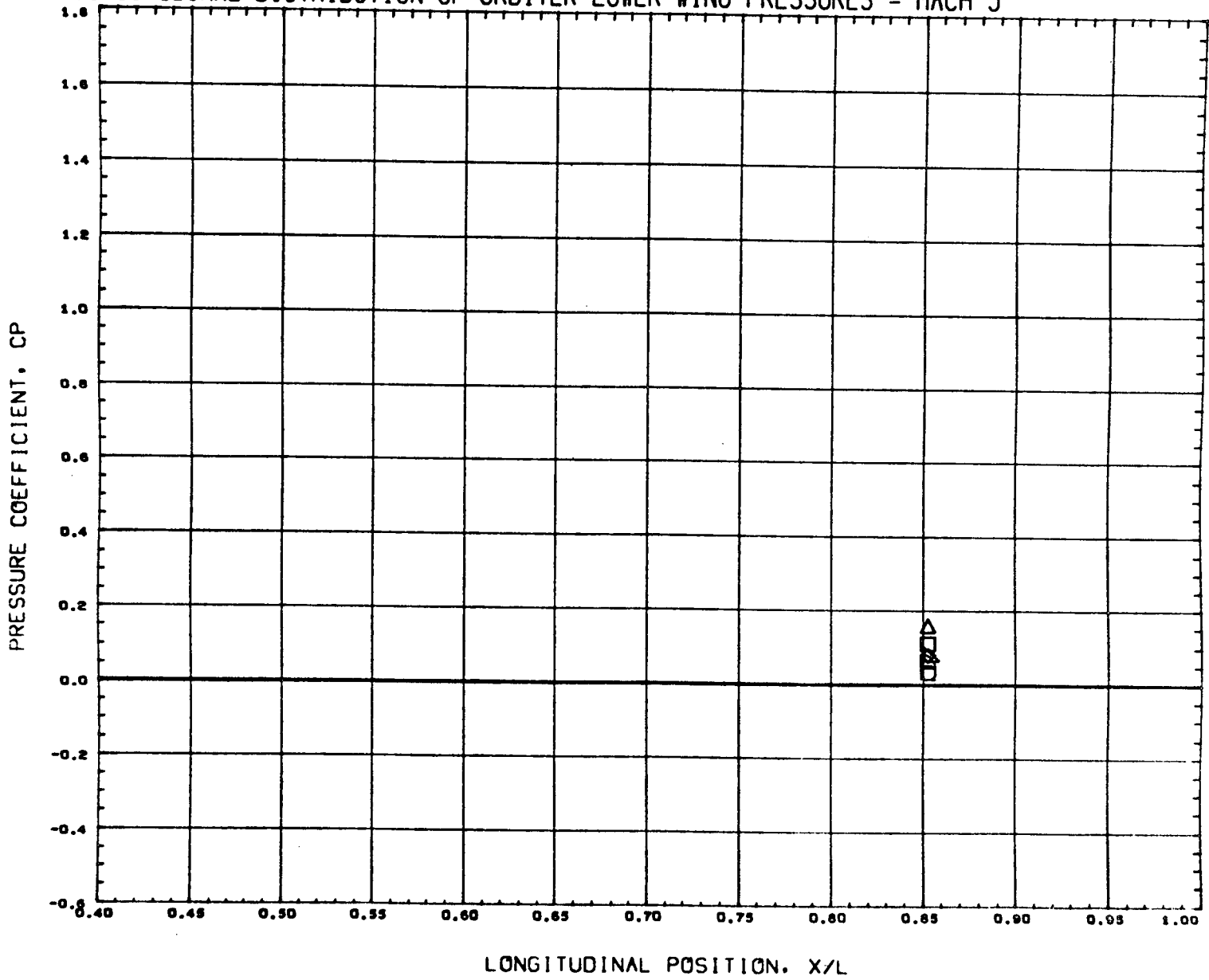
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.366	0.226
◇	0.143		
△	0.020		
○	0.103		
◻	0.227		
◻	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	3.020	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z	PARAMETRIC VALUES			
○	0.390	0.738	0.229	ALPHAB	5.020	MACH	4.940
◇	0.143			ALPHA I	0.000	ORBPOW	0.000
◊	0.020			BSTPOW	0.000		
◻	0.103						
◼	0.227						
◽	0.350						

REFERENCE FILE

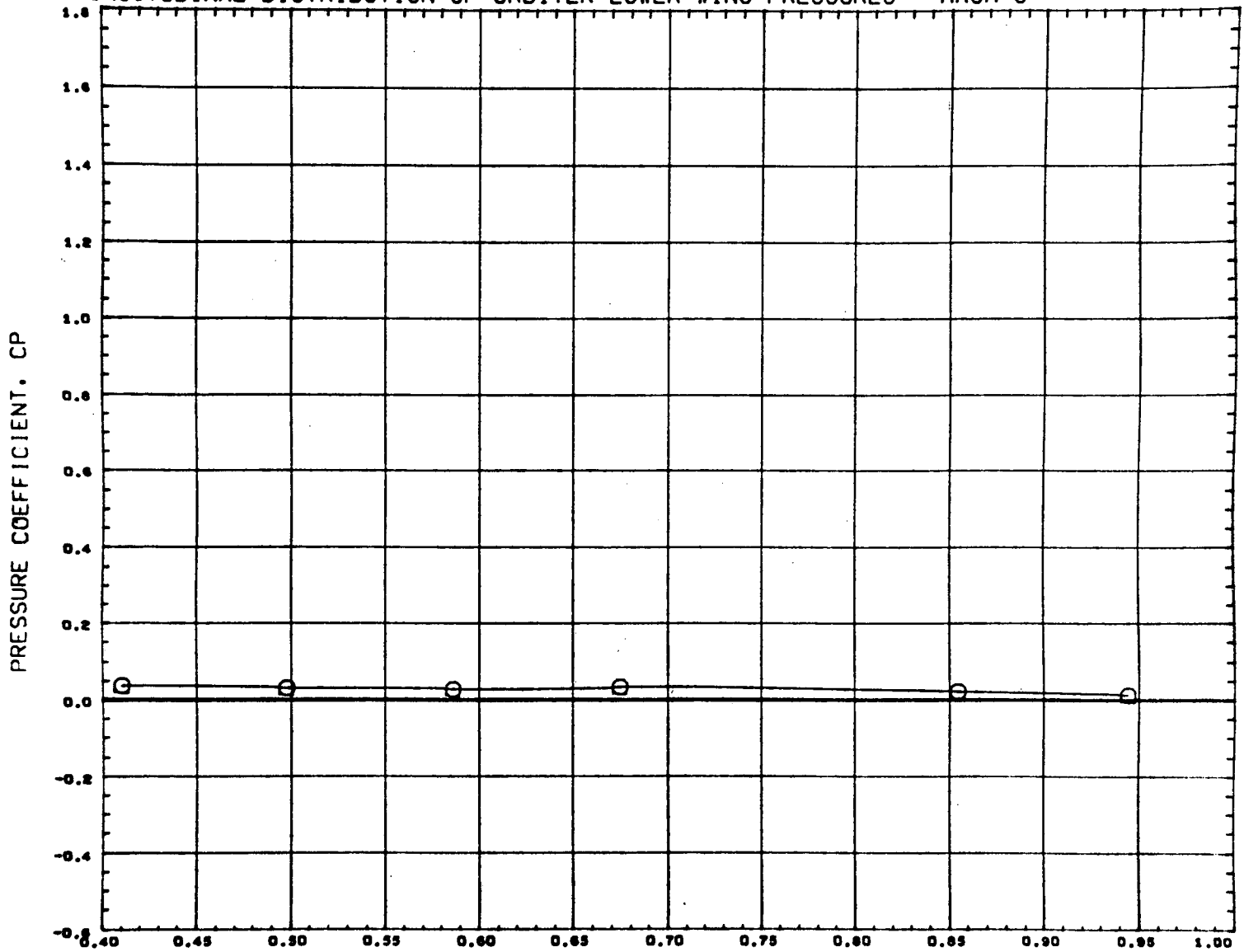
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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.906

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

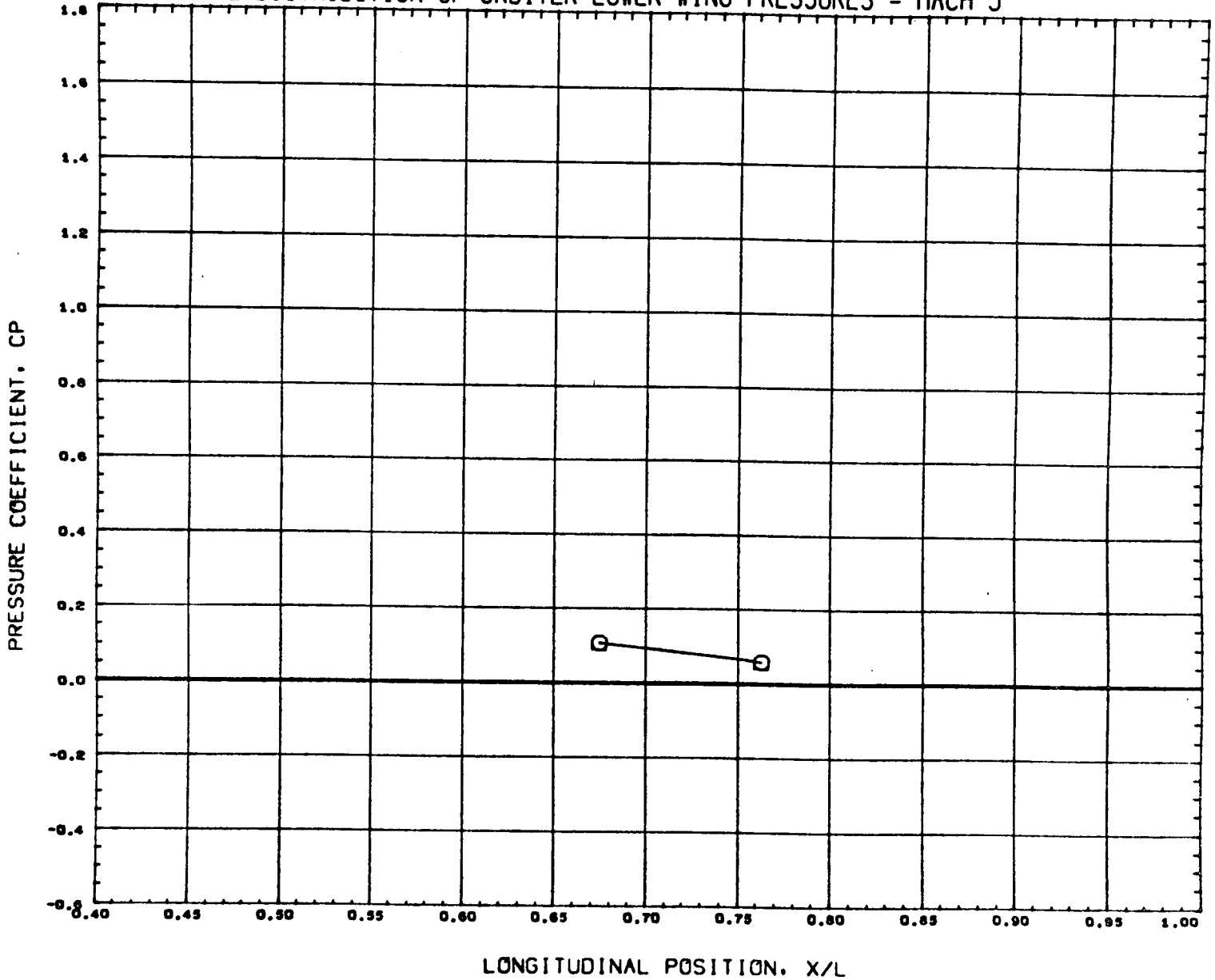
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.906

PARAMETRIC VALUES			
ALPHA B	5.020	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

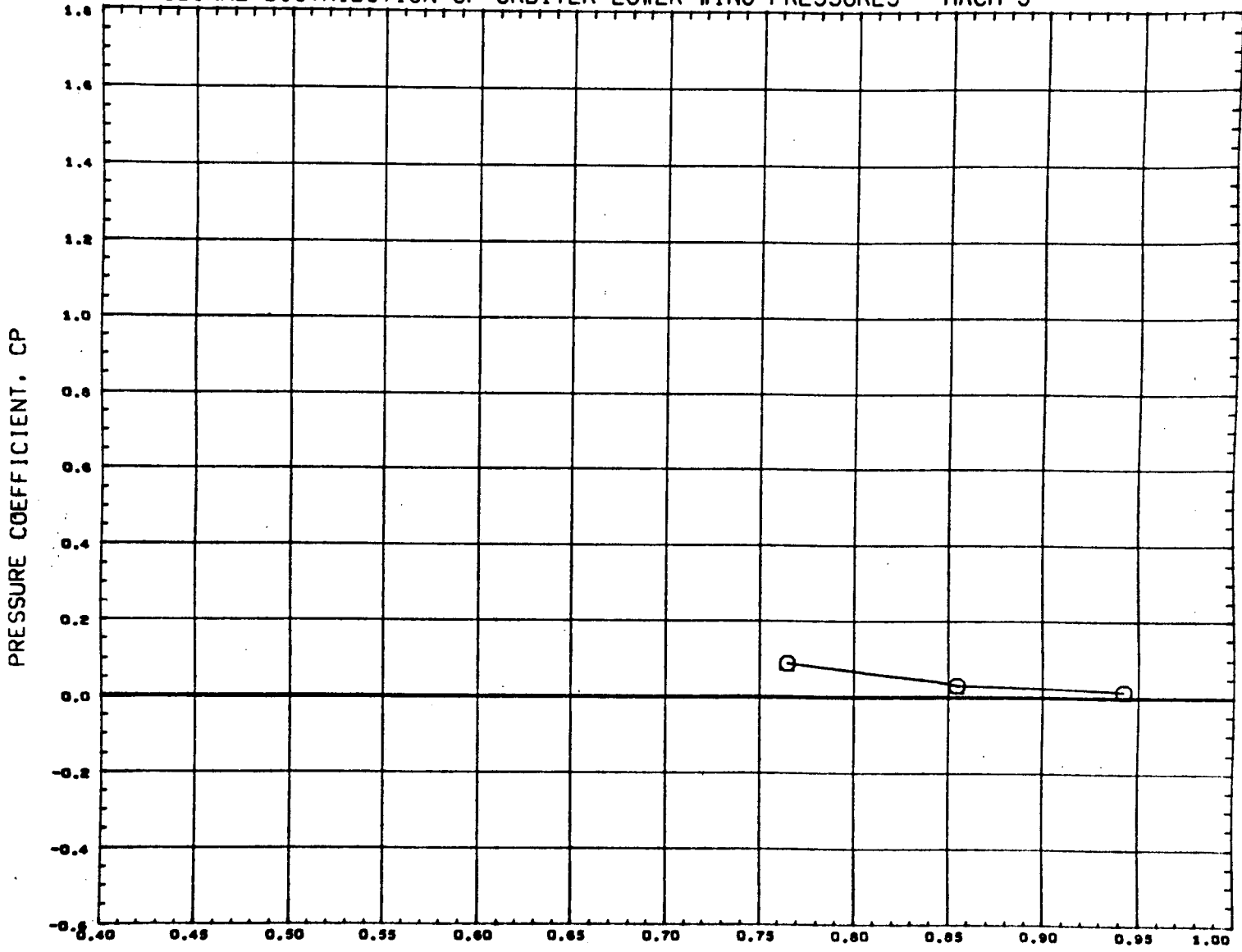
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.566	0.908

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

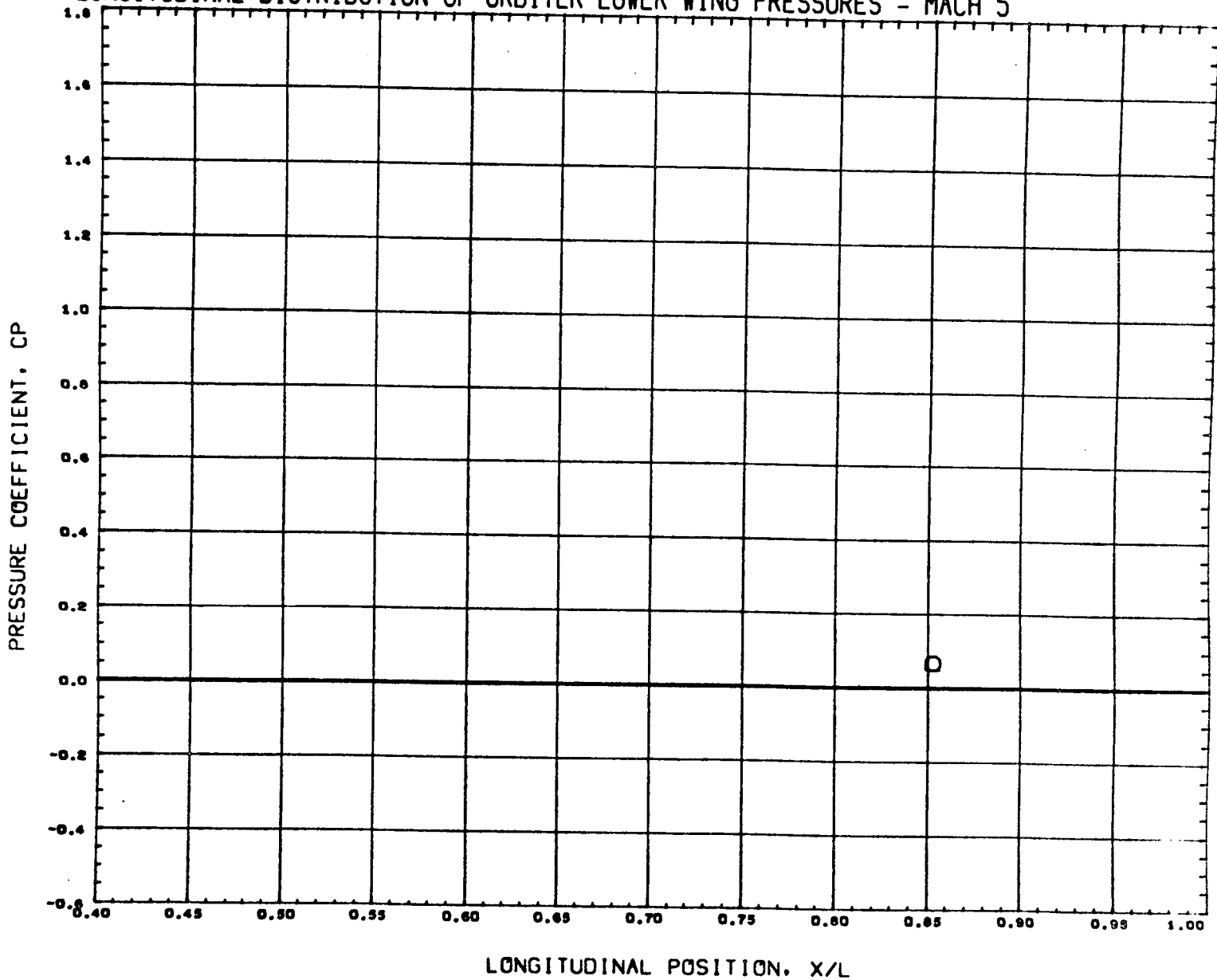
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8514•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.920	0.739	0.909

PARAMETRIC VALUES			
ALPHAB	3.020	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

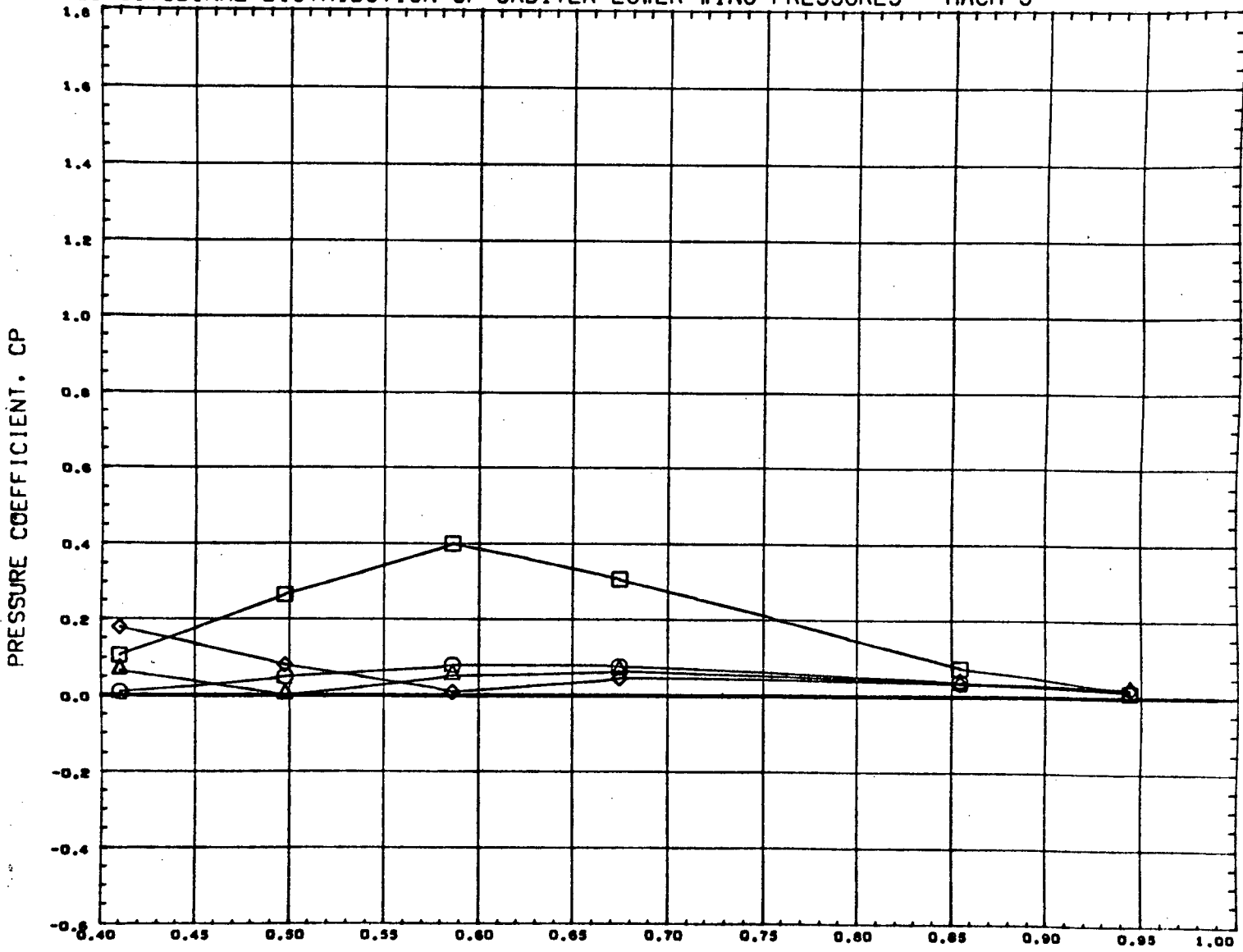
REFERENCE FILE

AEC VAI163 MDAC ORBITER (LOWER WING)

•HT8514•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.193		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

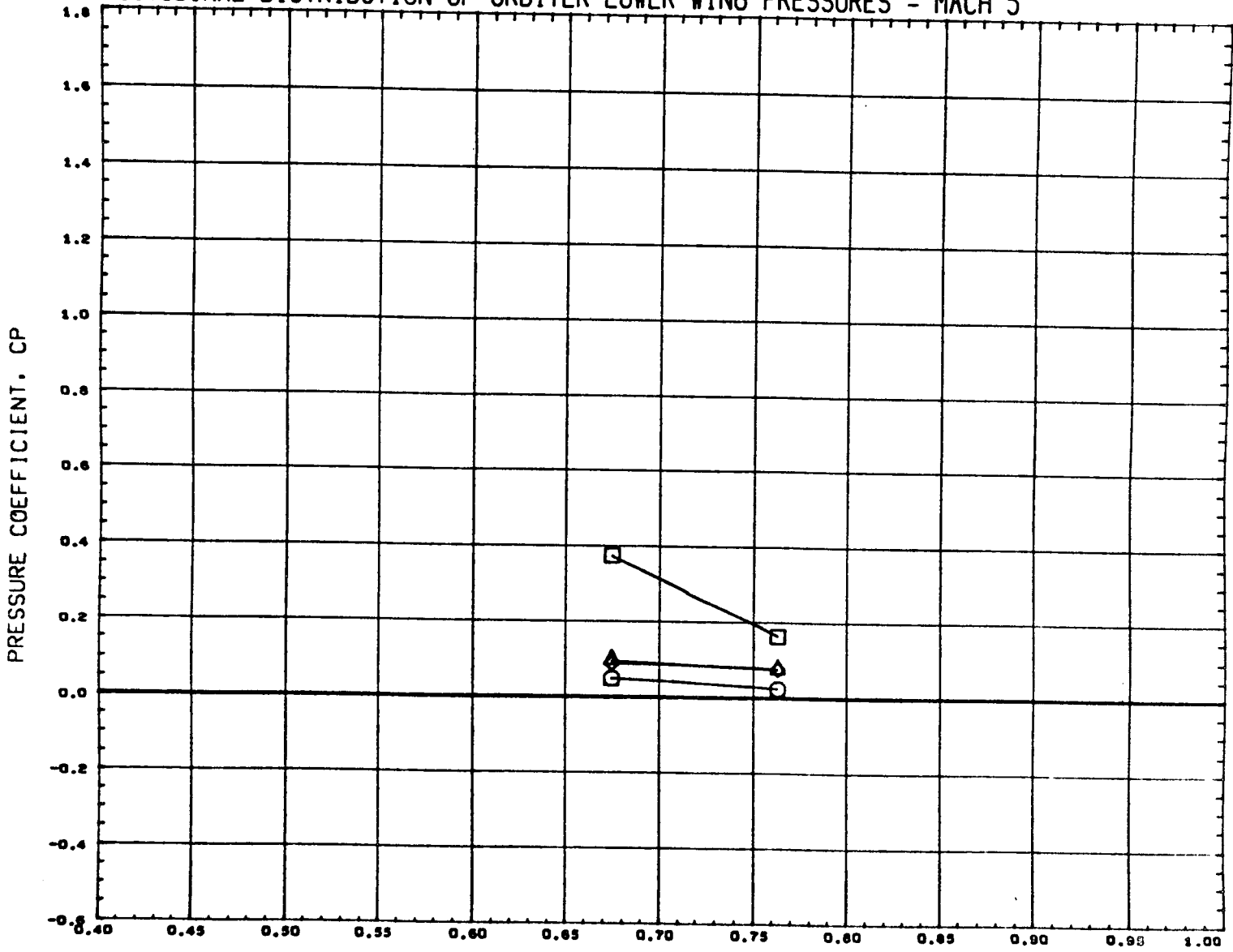
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

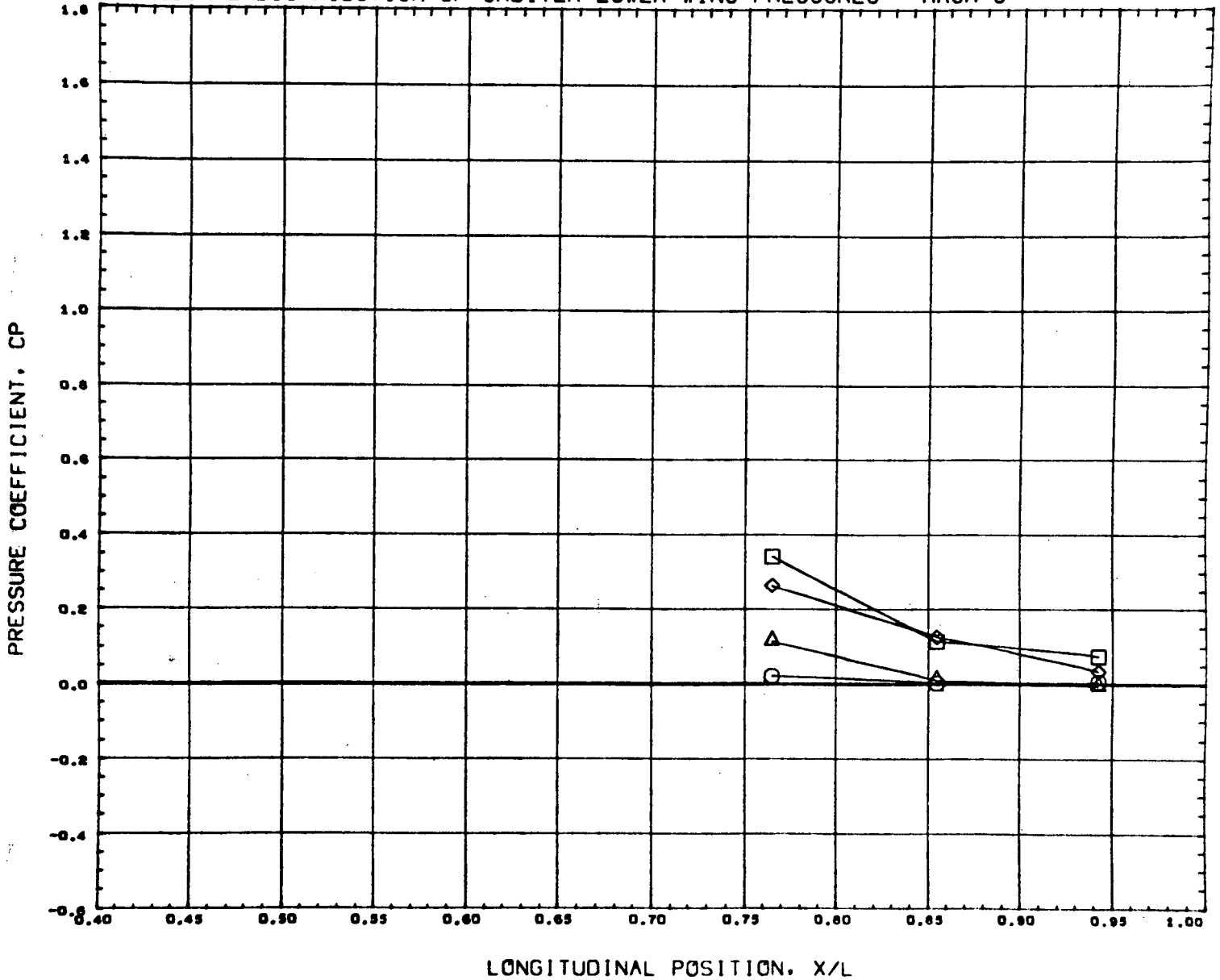
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.568	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPCW	0.000		

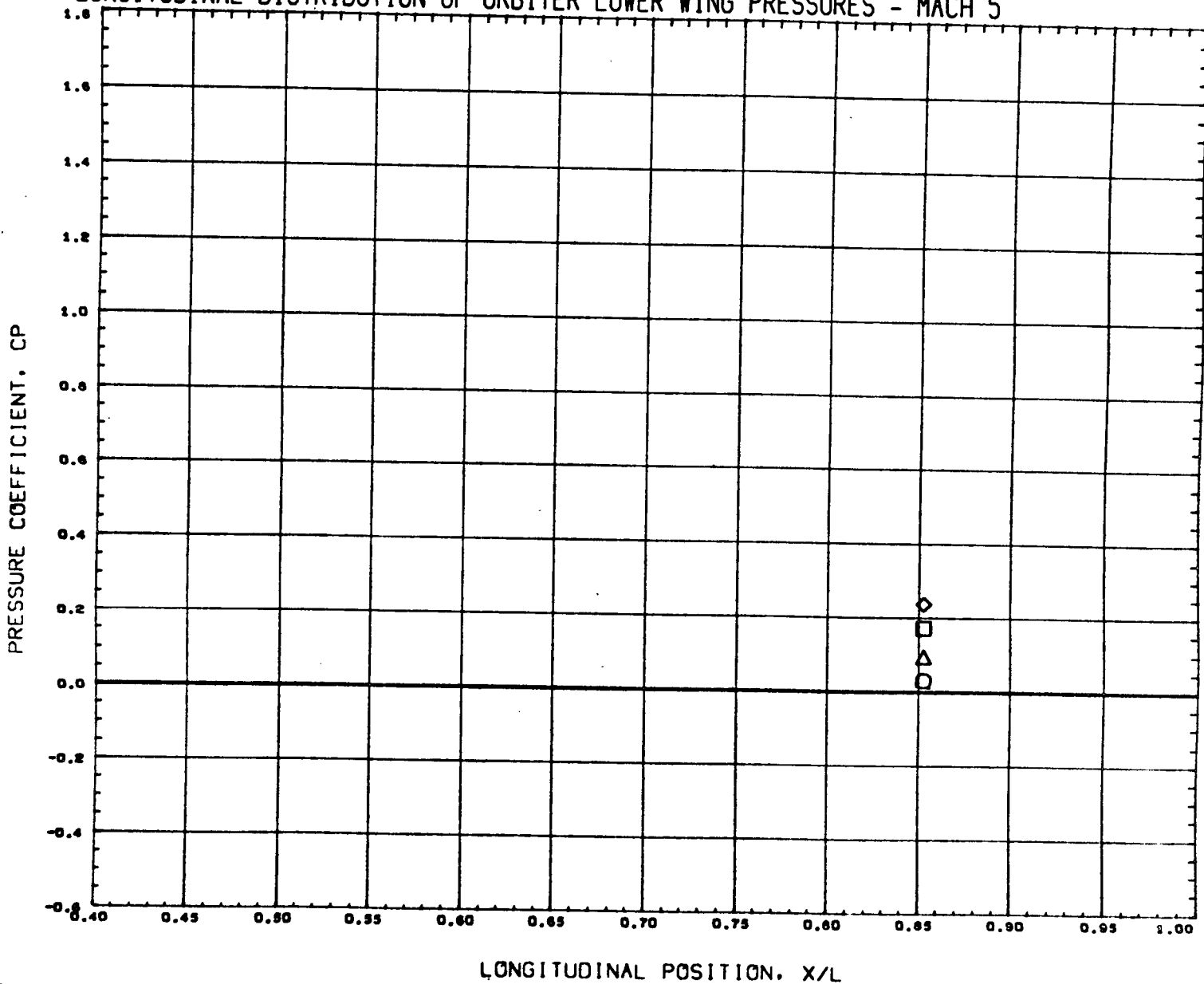
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.739	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

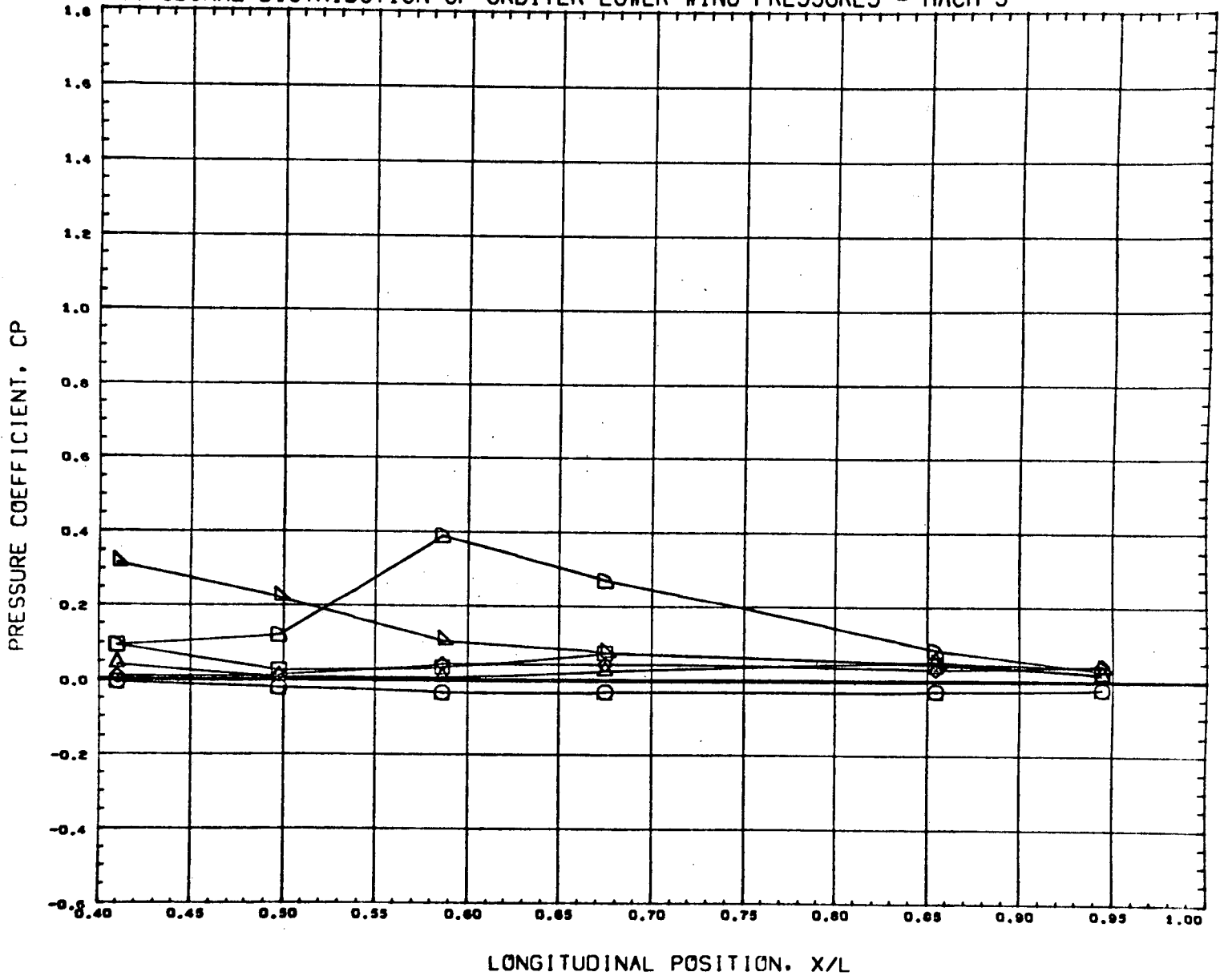
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

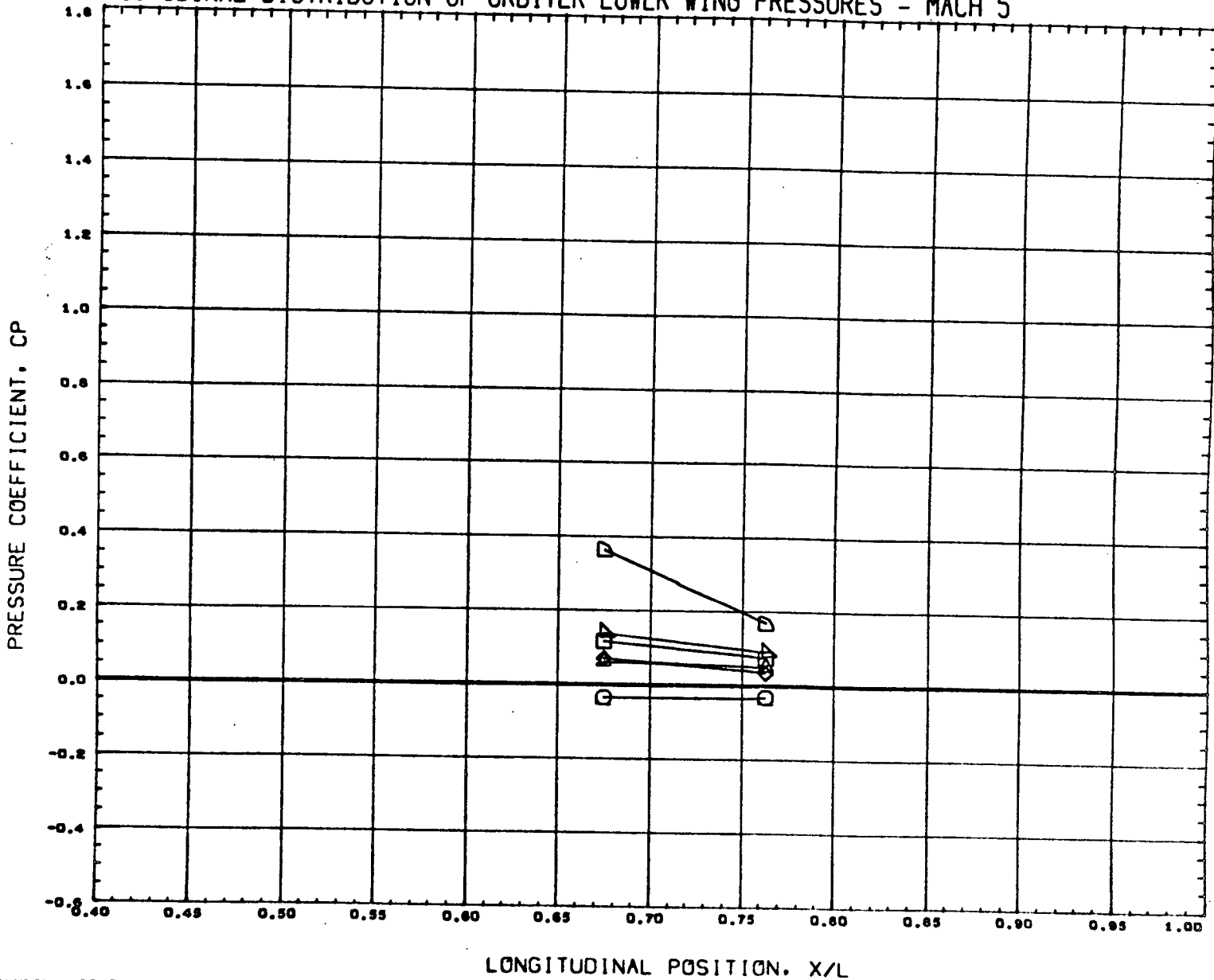


SYMBOL	DELTA X	Y/B	DELTA Z
△	0.390	0.230	0.120
□	0.143		
○	0.020		
◇	0.103		
●	0.227		
○	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

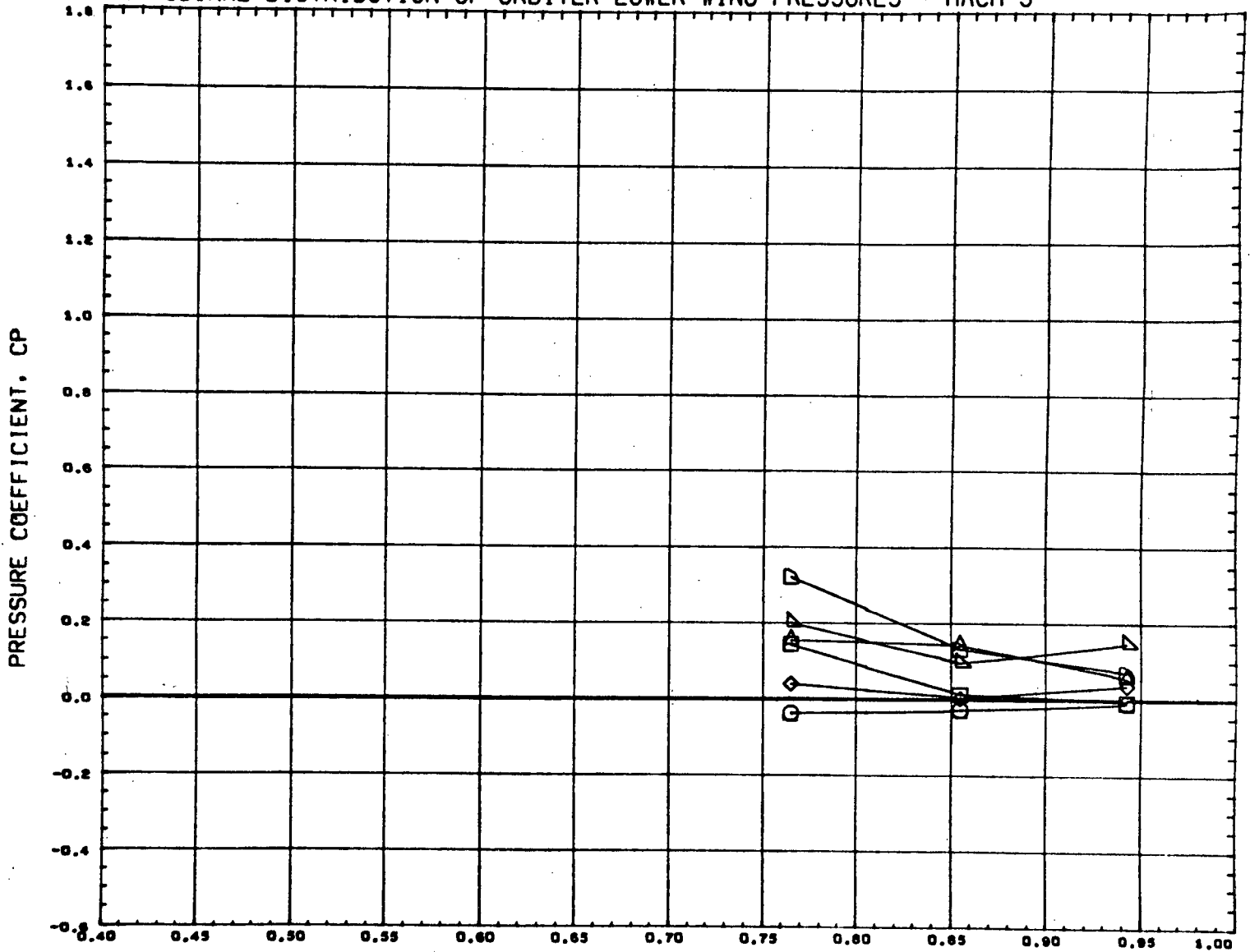
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.120
◇	0.143		
△	0.020		
□	0.103		
▽	0.227		
◇	0.390		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



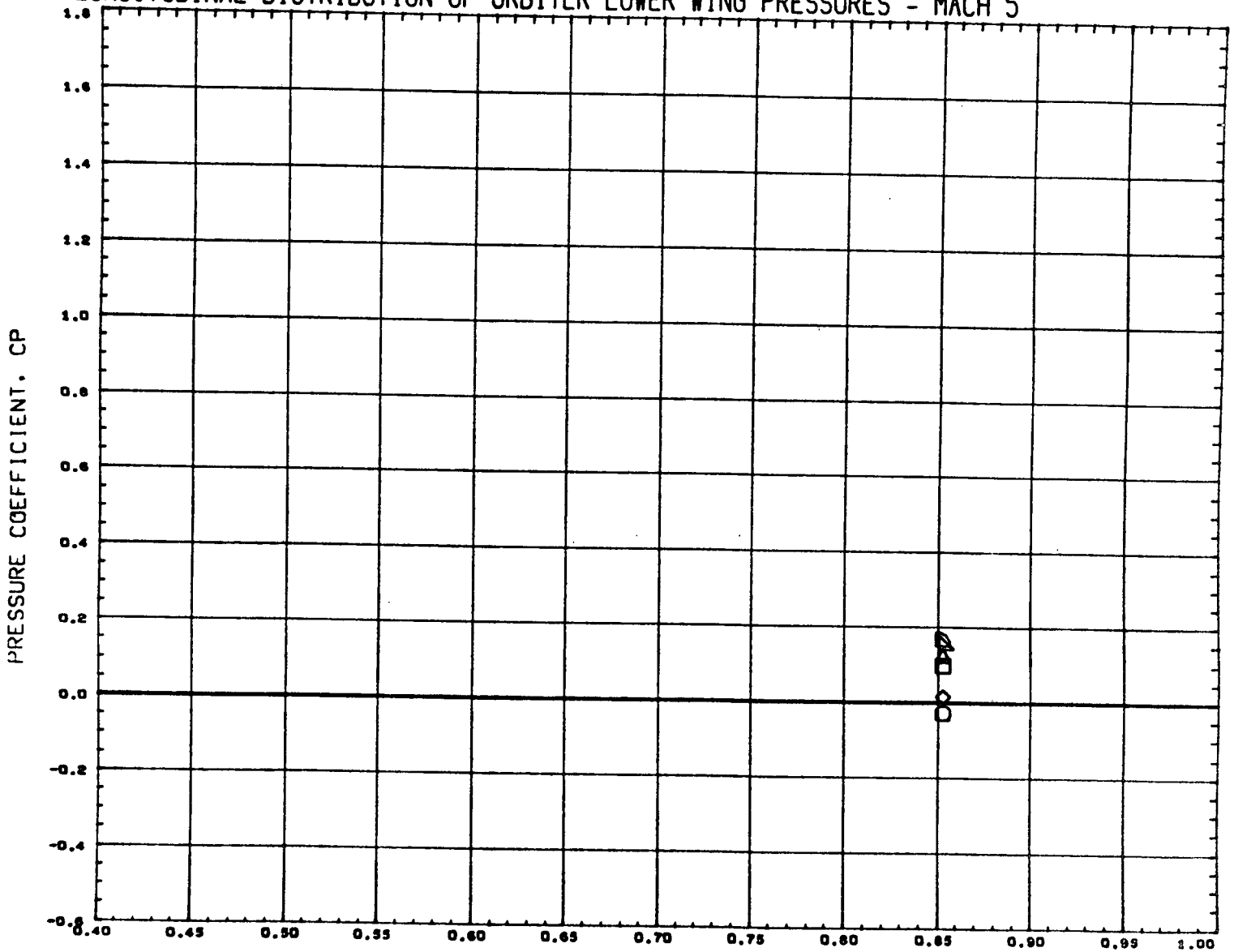
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
◻	0.390	0.568	0.120
◻	0.143		
◻	0.020		
◻	0.103		
◻	0.227		
◻	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



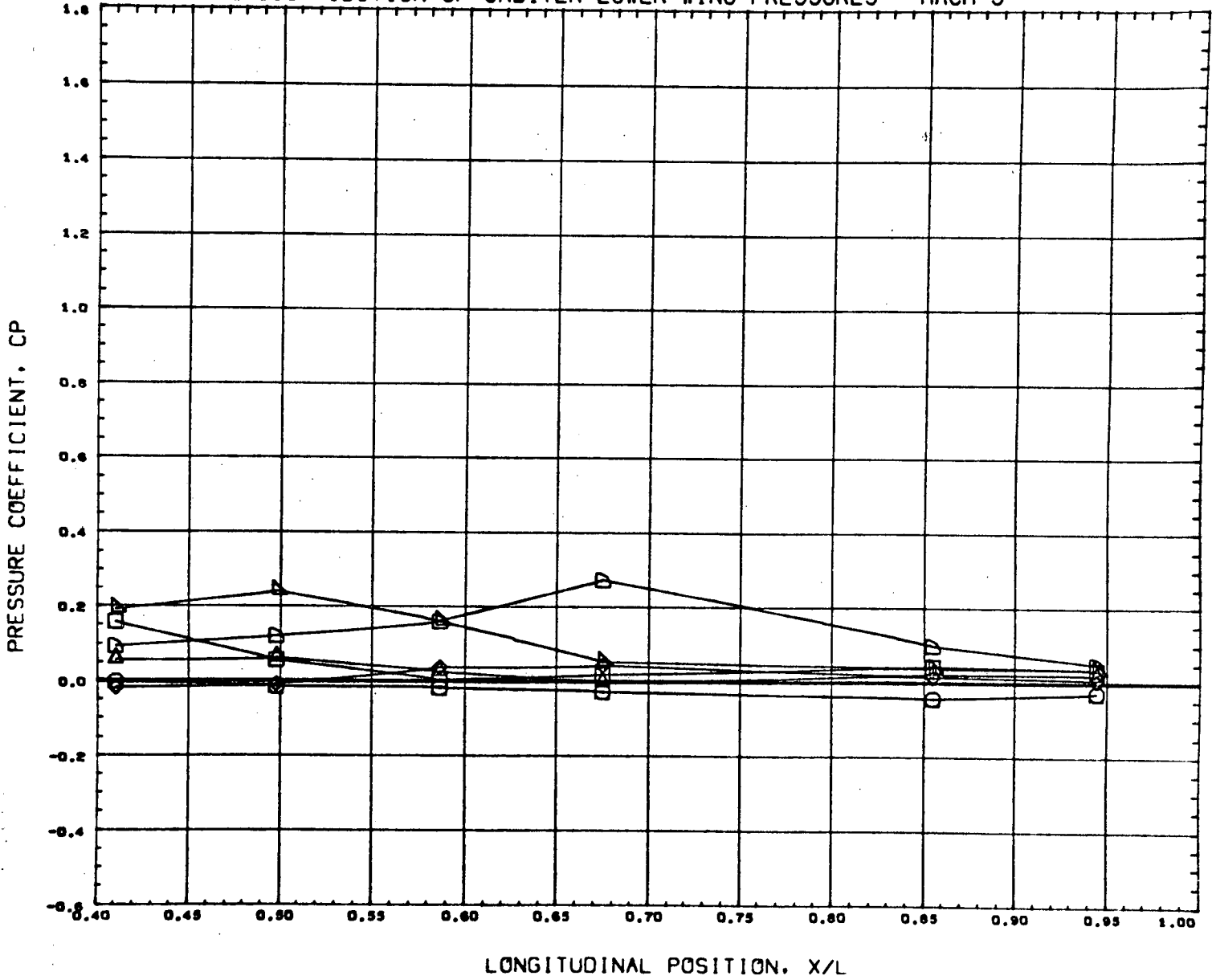
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.736	0.120
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◻	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.040
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

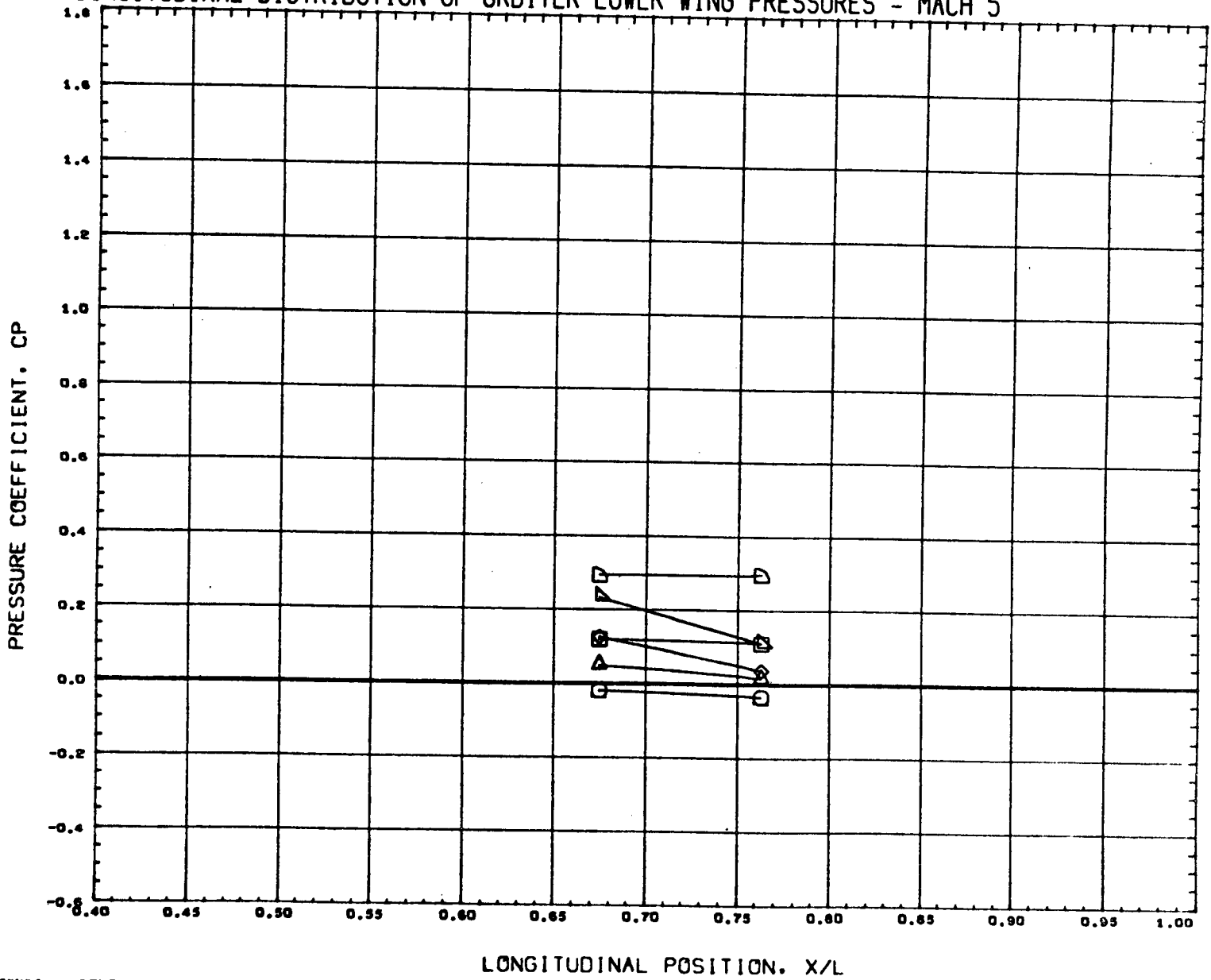


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.191
□	0.143		
△	0.080		
◇	0.103		
▽	0.227		
	0.390	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHA B	10.063	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

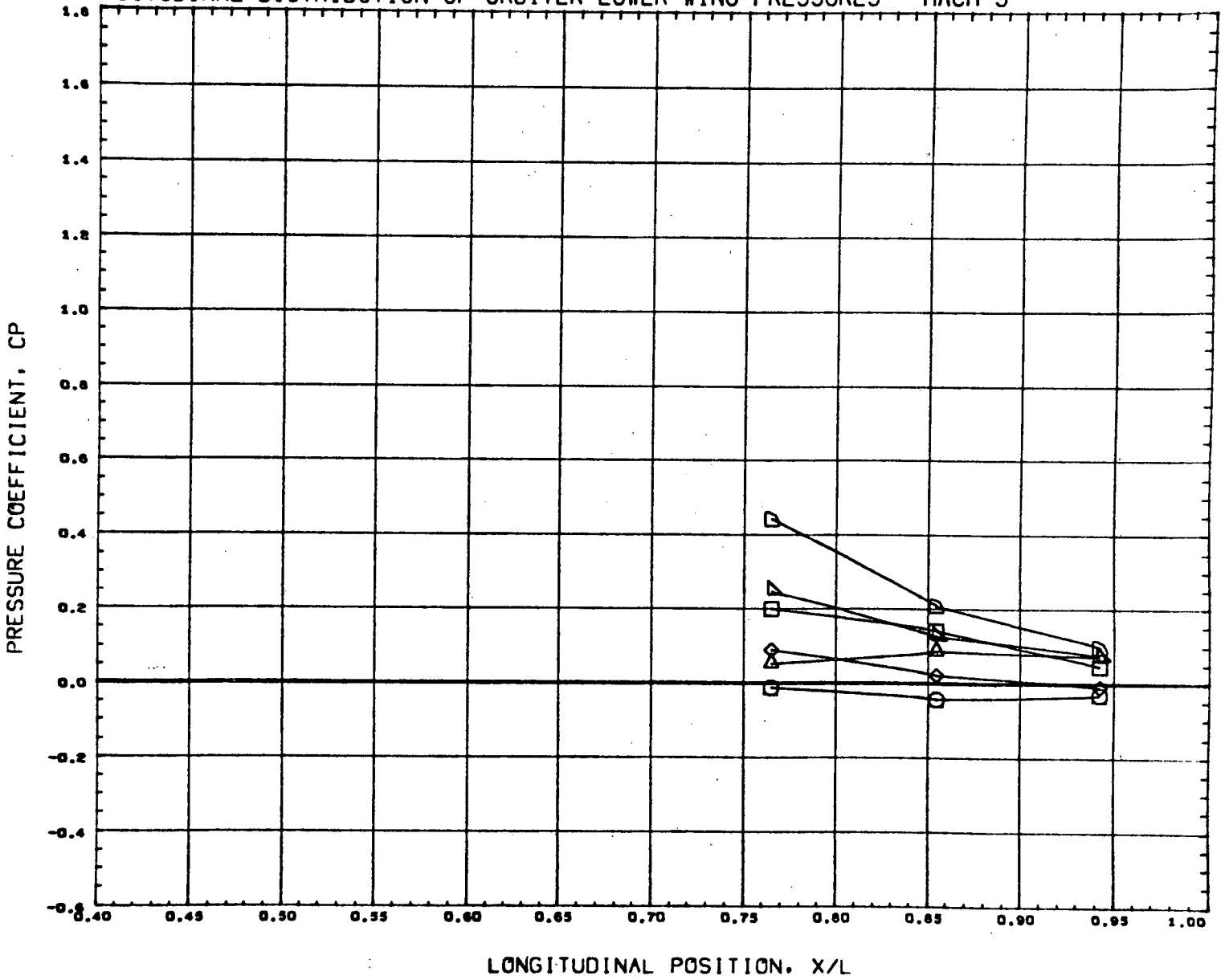


SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.399	0.151
△	0.143		
◇	0.020		
○	0.103		
◇	0.227		
□	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

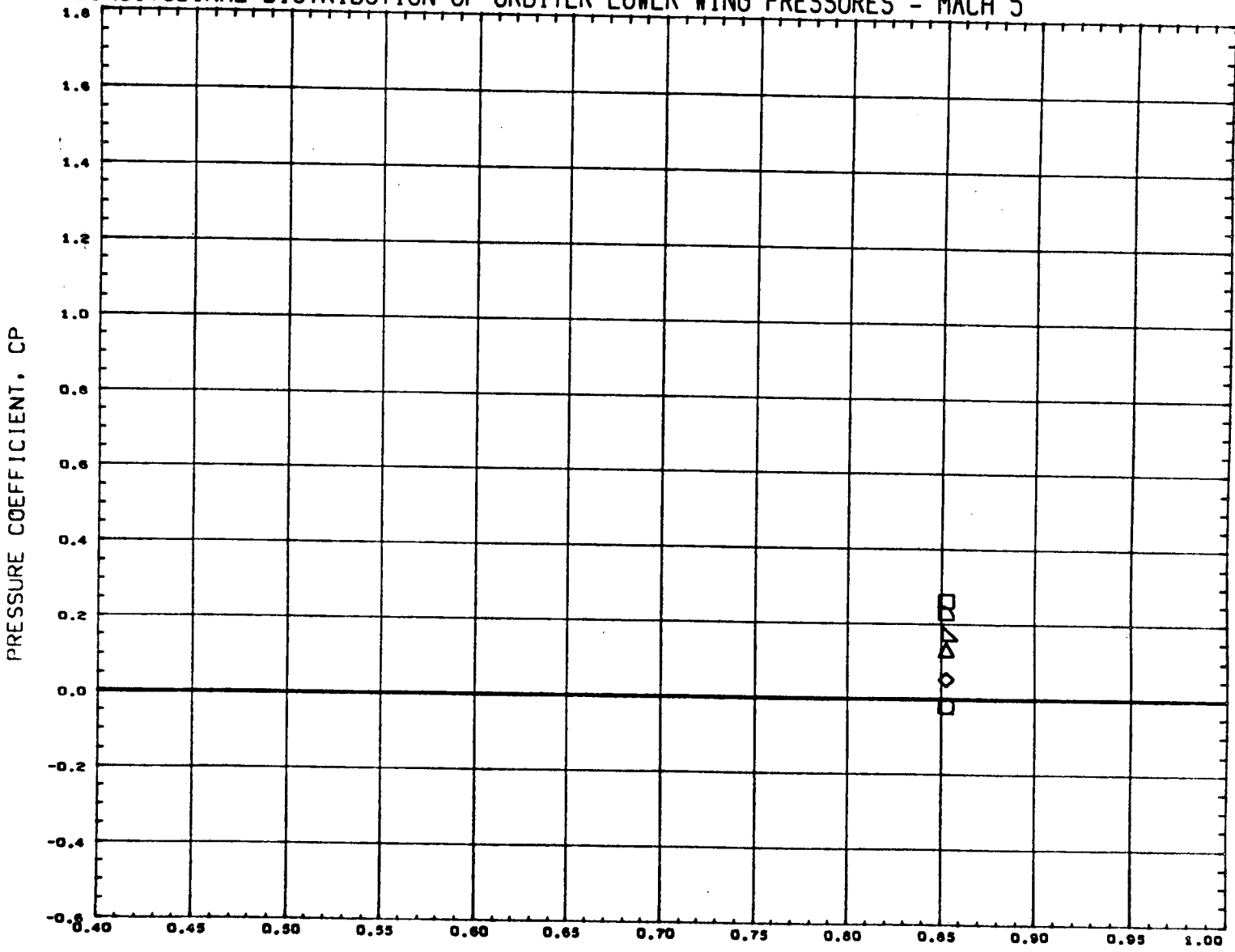


SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.569	0.151
◇	0.143		
△	0.020		
○	0.103		
◇	0.227		
□	0.330		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
88TPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



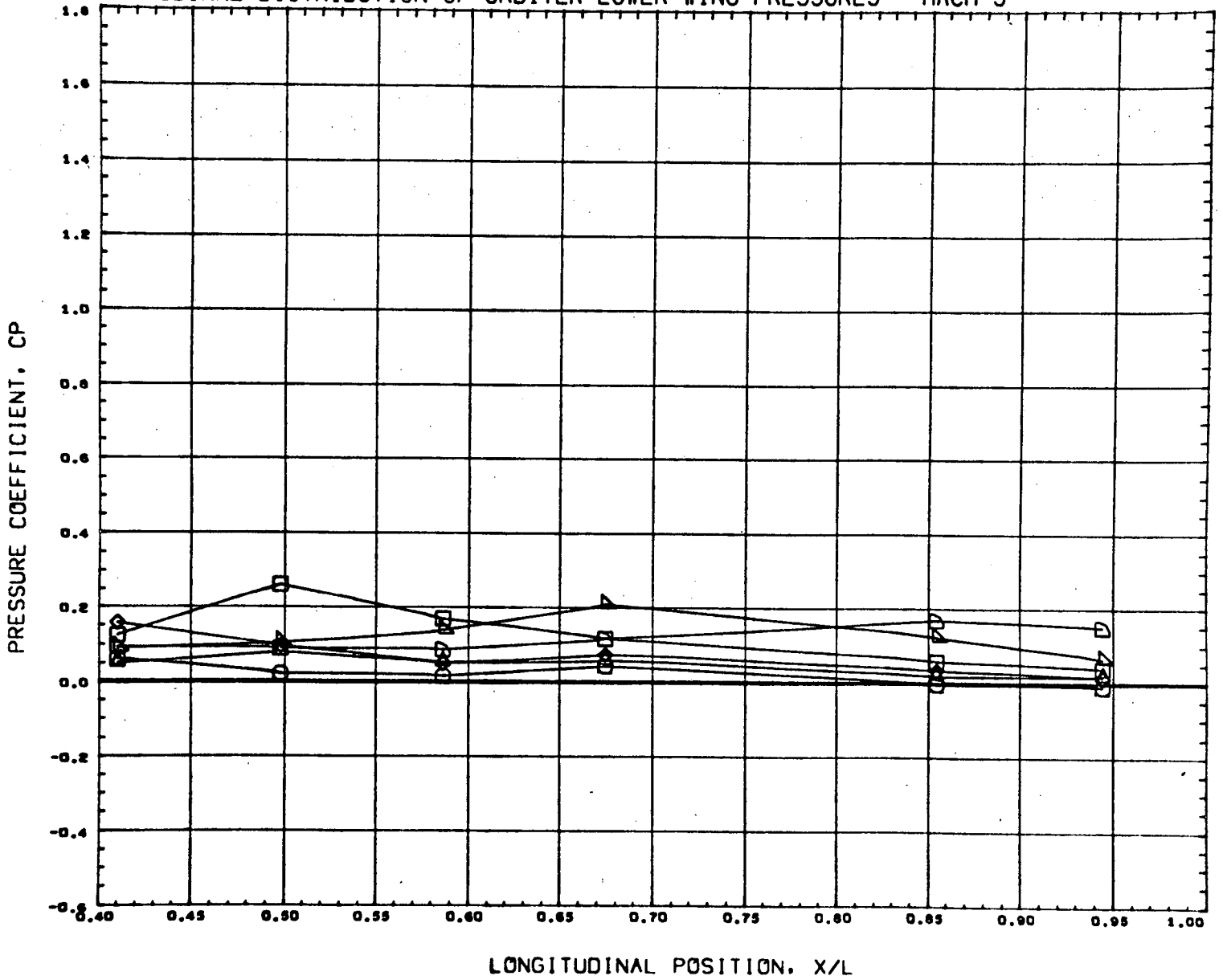
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.738	0.151
△	0.143		
◇	0.020		
□	0.103		
◻	0.227		
◻	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

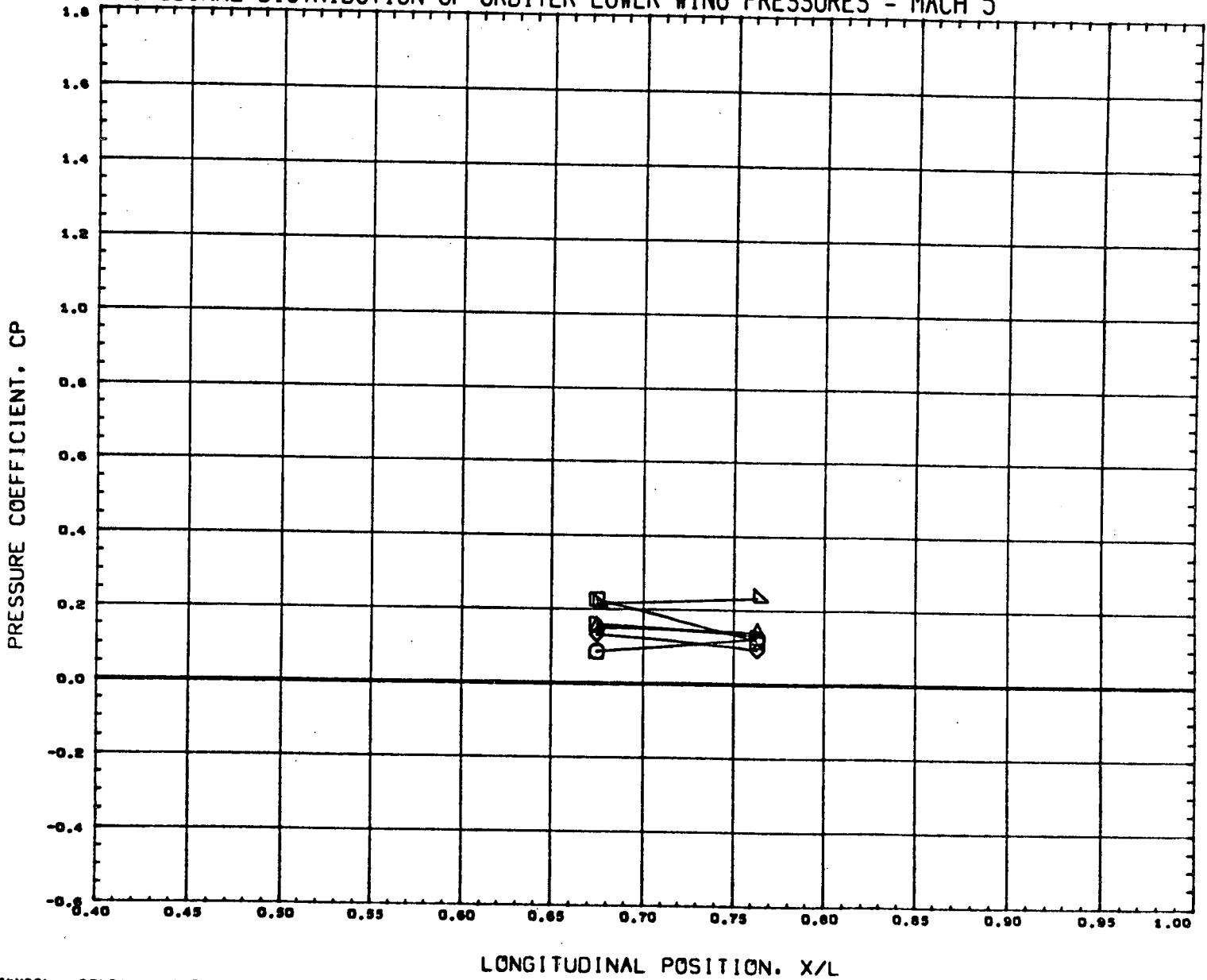


SYMBOL	DELTA X	Y/B	DELTA Z
◻	0.350	0.230	0.228
◻	0.143		
◻	0.020		
◻	0.103		
◻	0.227		
◻	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHA B	10.063	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

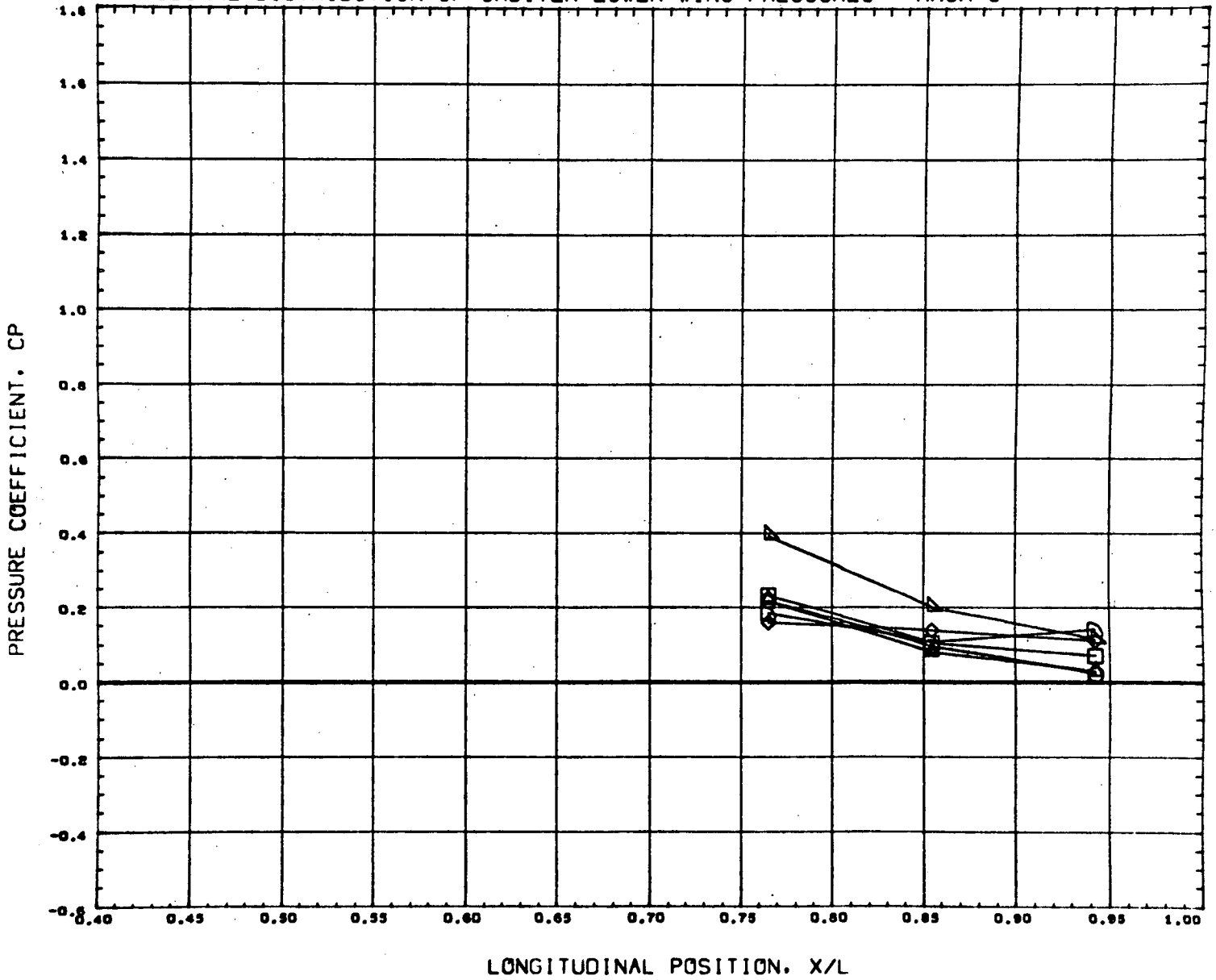
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.226
△	0.143		
◇	0.020		
◊	0.103		
◓	0.227		
◔	0.350		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

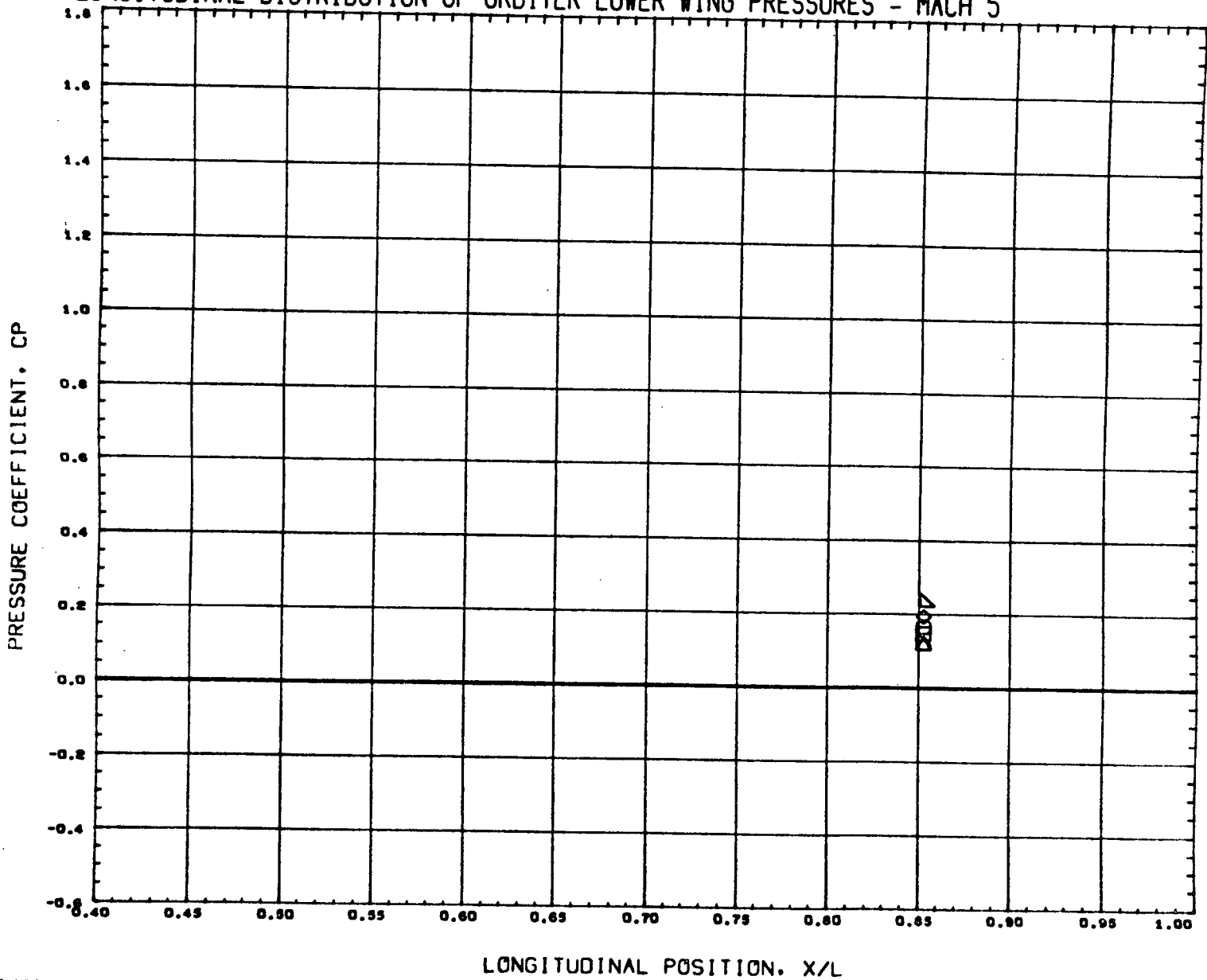


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.566	0.226
△	0.143		
◇	0.020		
□	0.103		
+	0.227		
	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

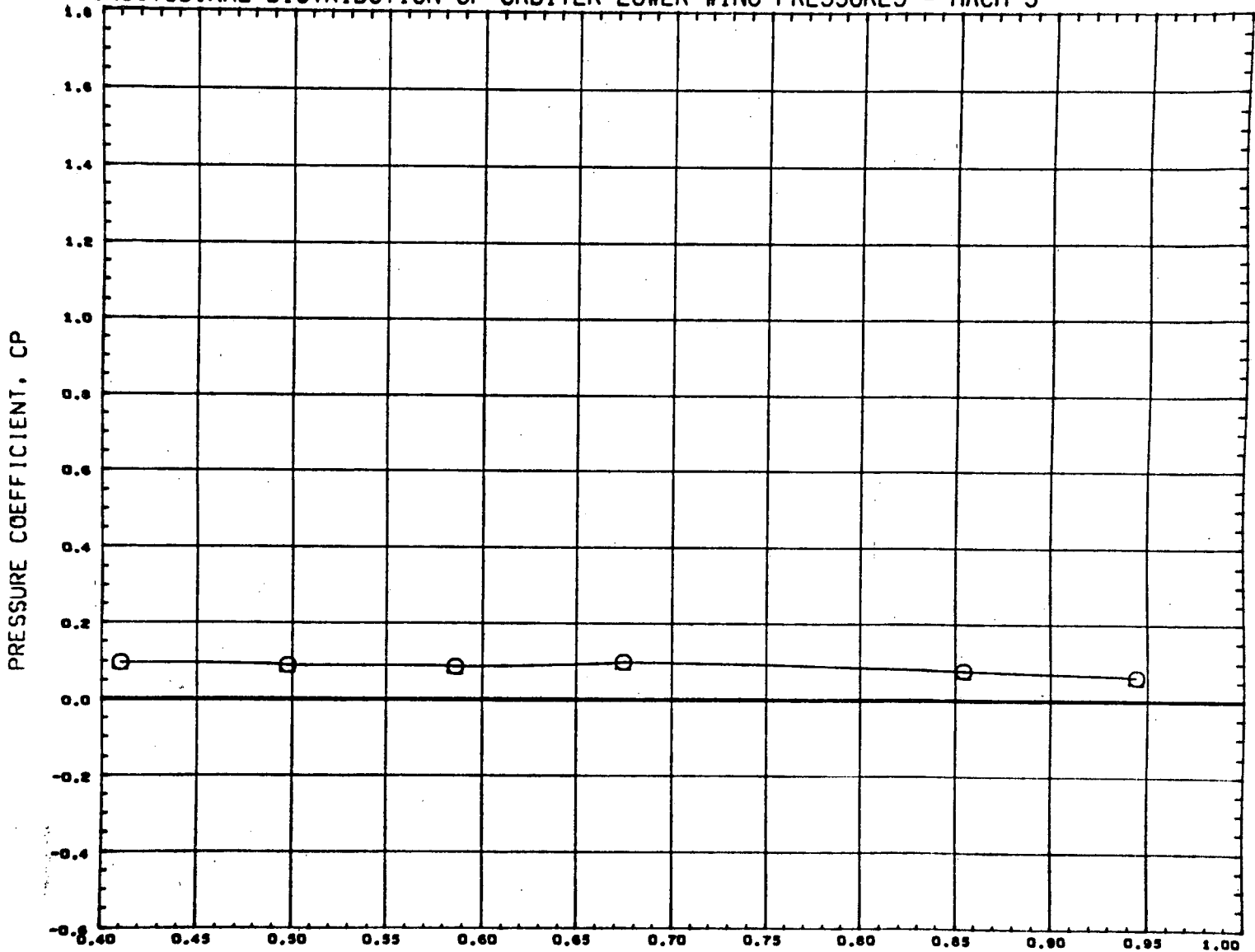


SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.736	0.228
◇	0.143		
△	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPW	0.000
BSTPW	0.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.230	0.908

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

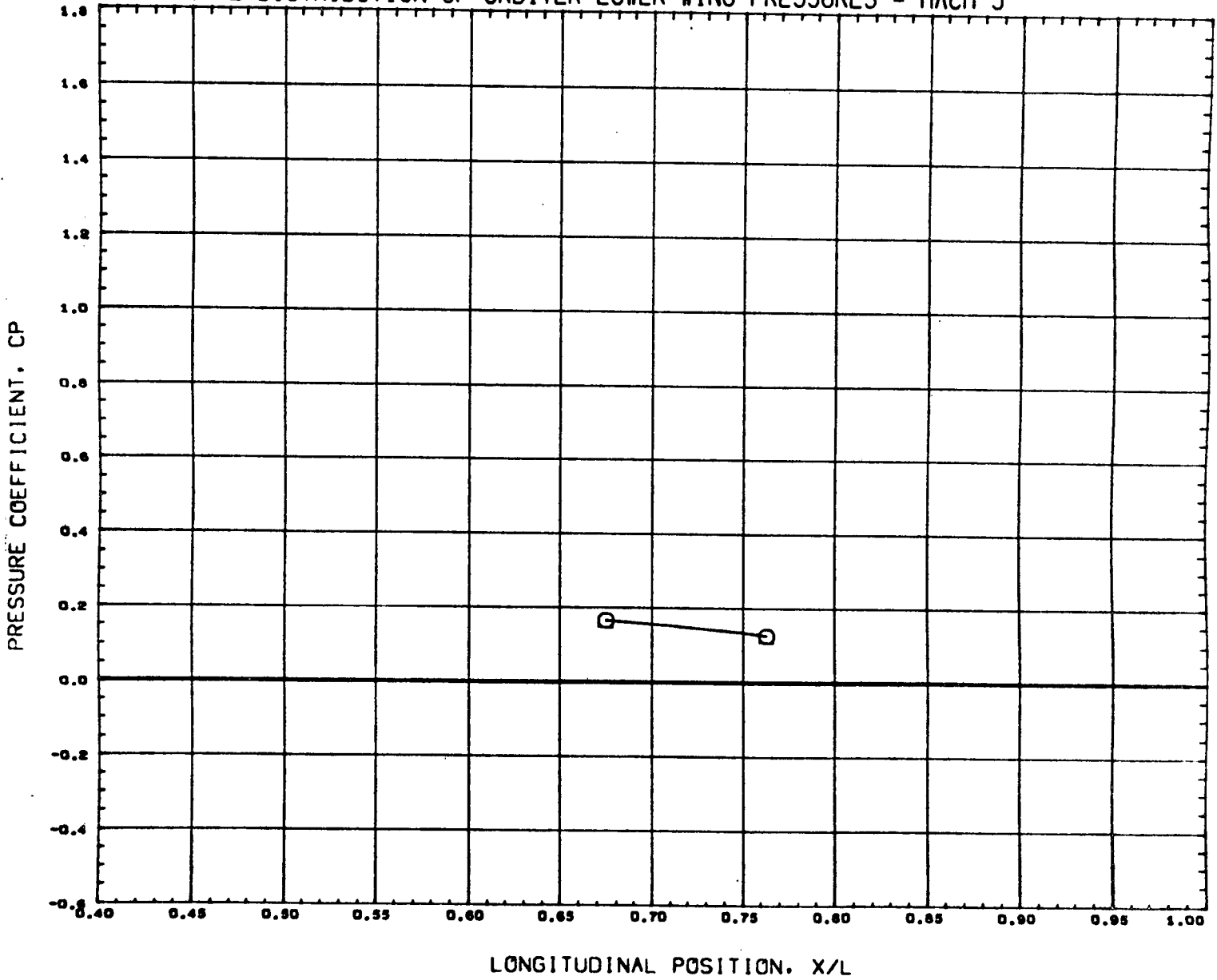
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
C	0.520	0.399	0.908

PARAMETRIC VALUES			
ALPHA B	10.063	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

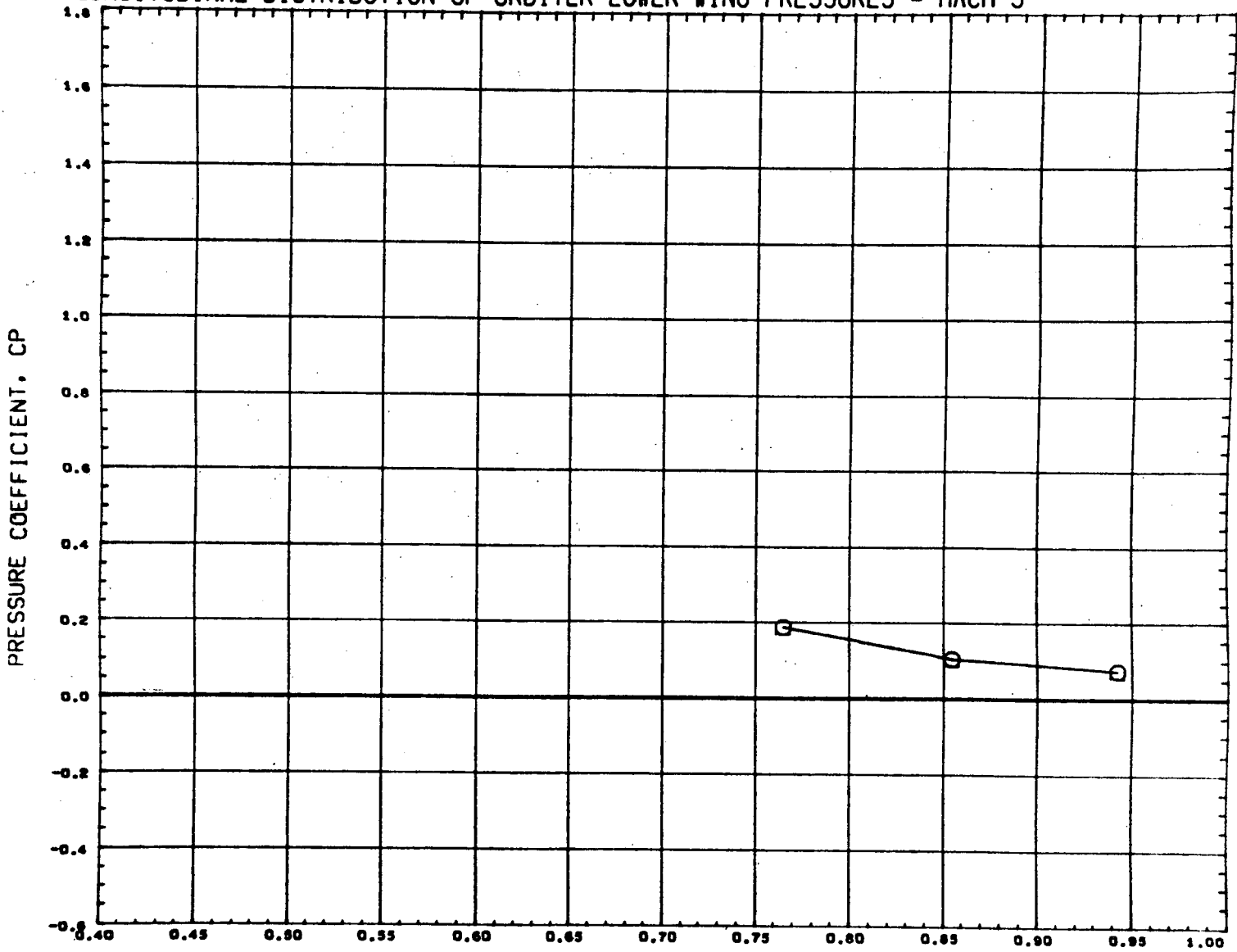
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.568	0.908

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

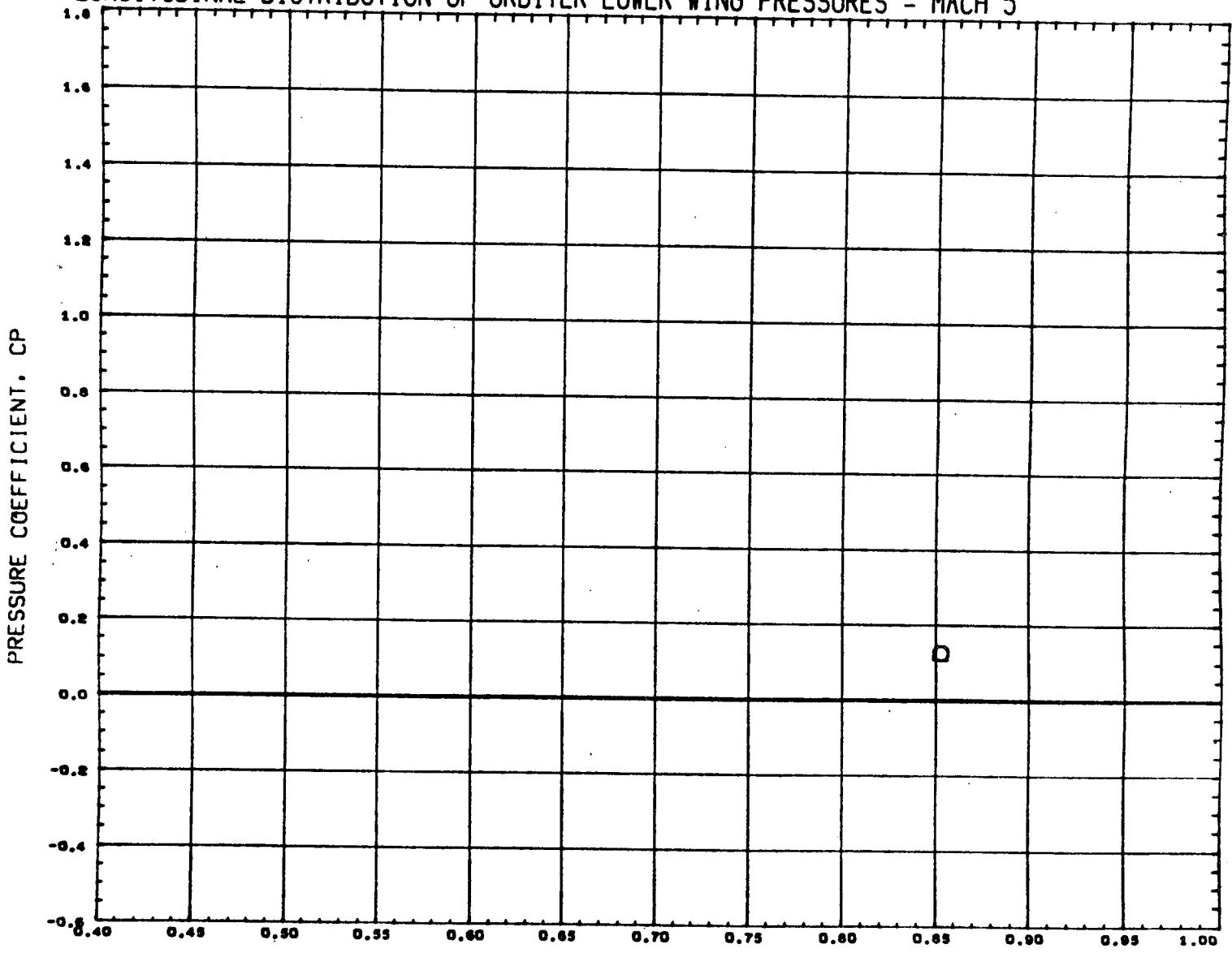
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8515•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 ○ 0.520 0.738 0.908

PARAMETRIC VALUES
 ALPHAB 10.063 MACH 4.940
 ALPHA1 0.000 ORBPOW 0.000
 BSTPOW 0.000

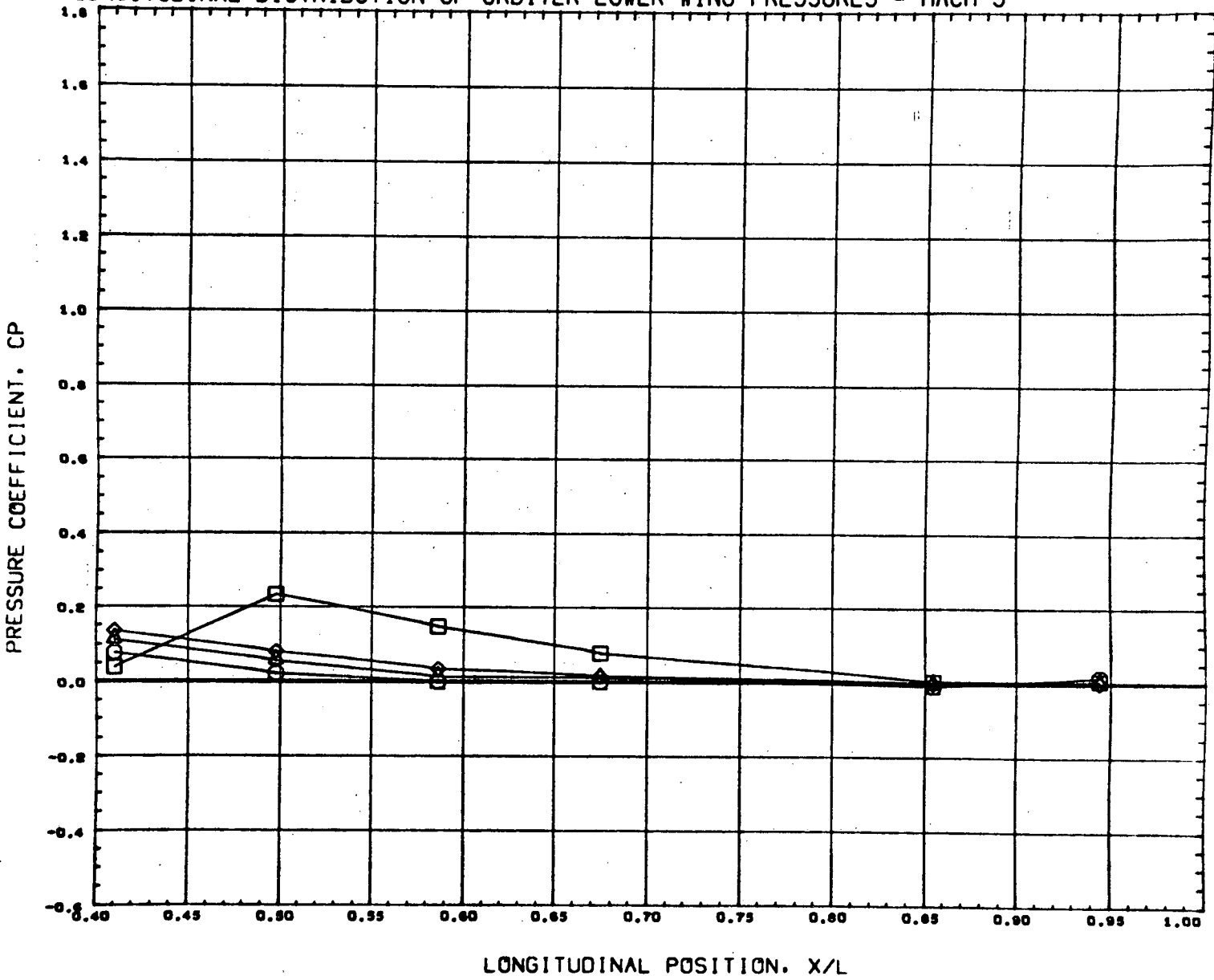
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	- 9.932	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

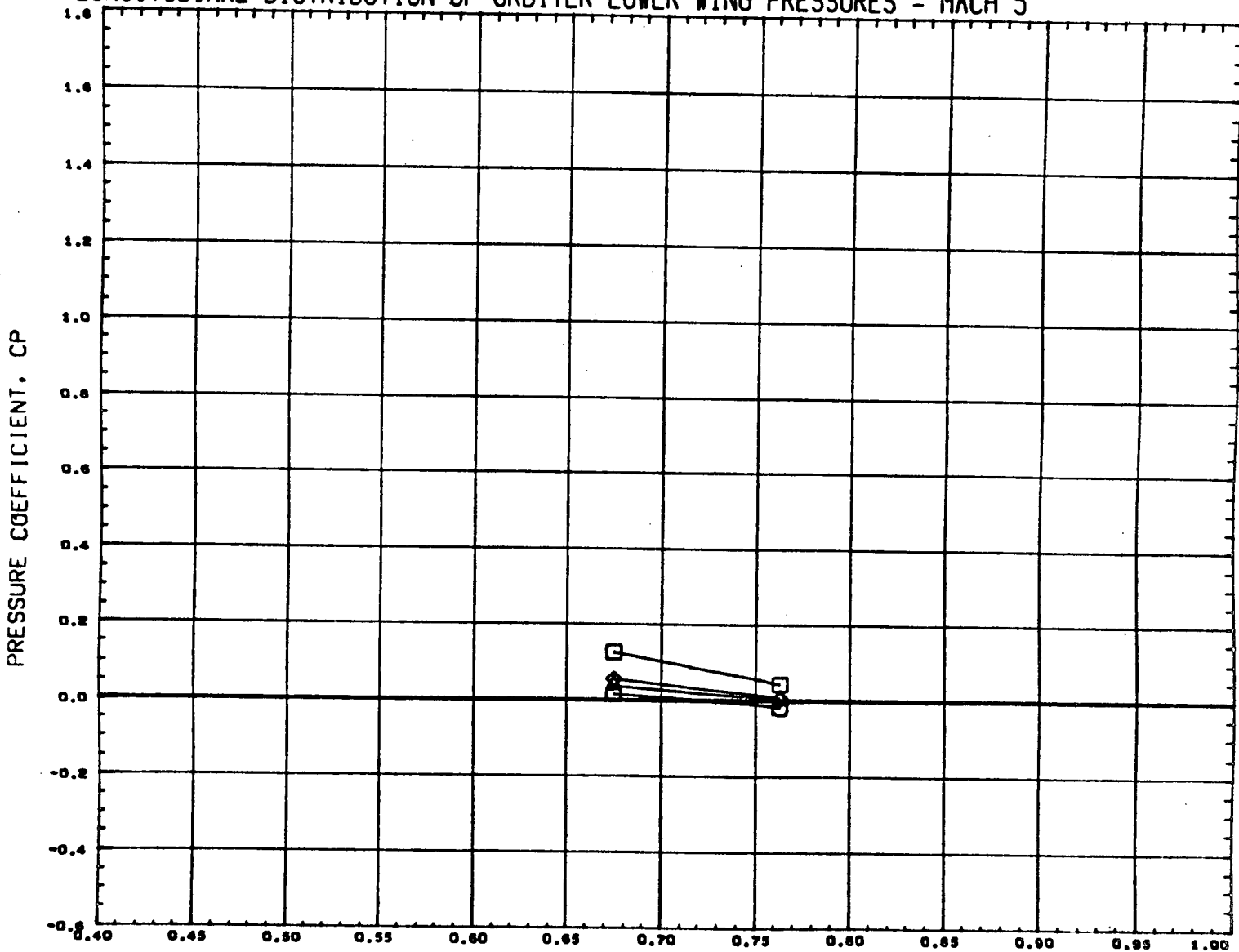
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.041	0.399	0.114
◇	0.103		
△	0.163		
○	0.330		

PARAMETRIC VALUES			
ALPHA ₀	- 9.932	MACH	4.940
ALPHA ₁	0.000	ORBPOW	50.000
BSTPOW	100.000		

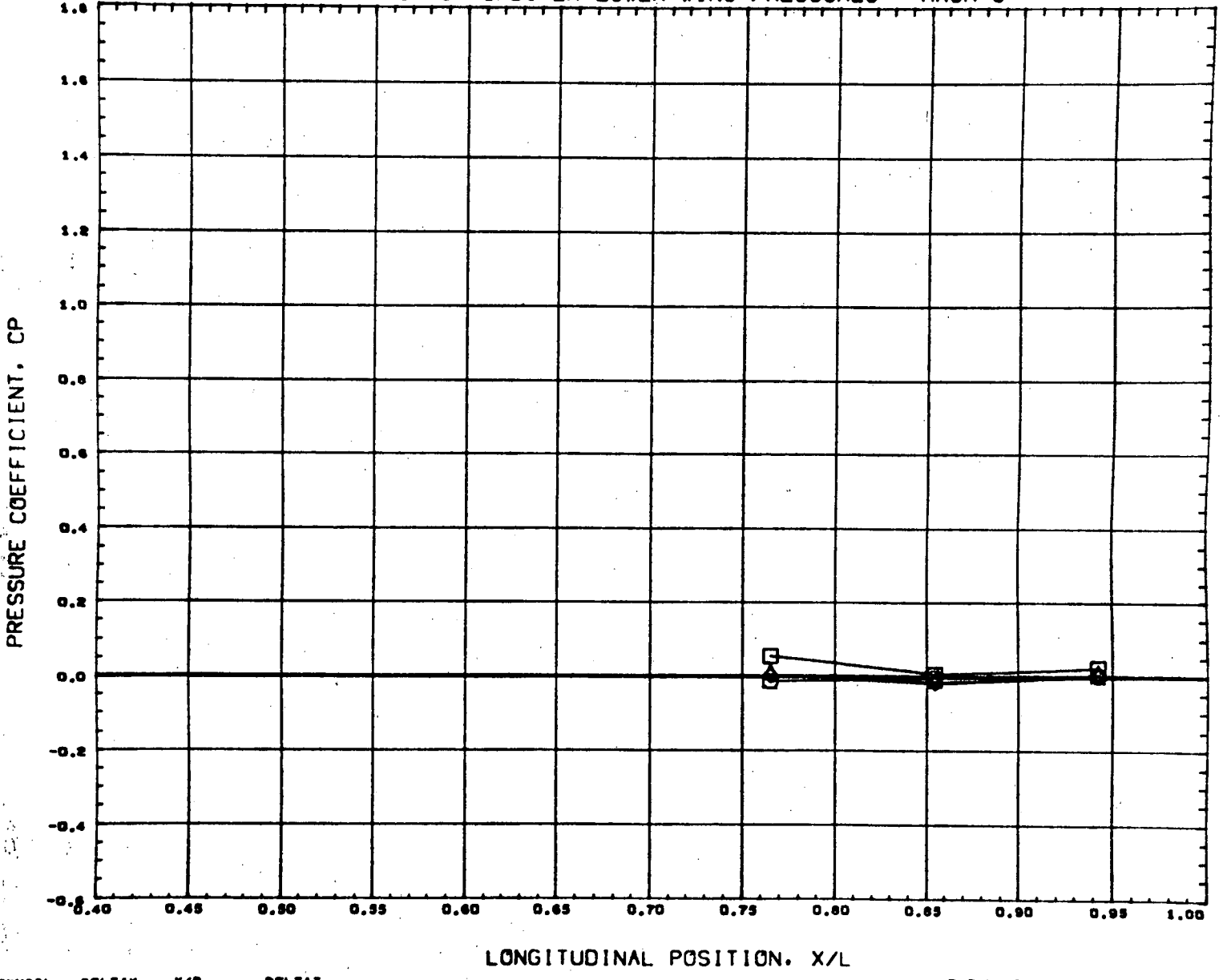
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



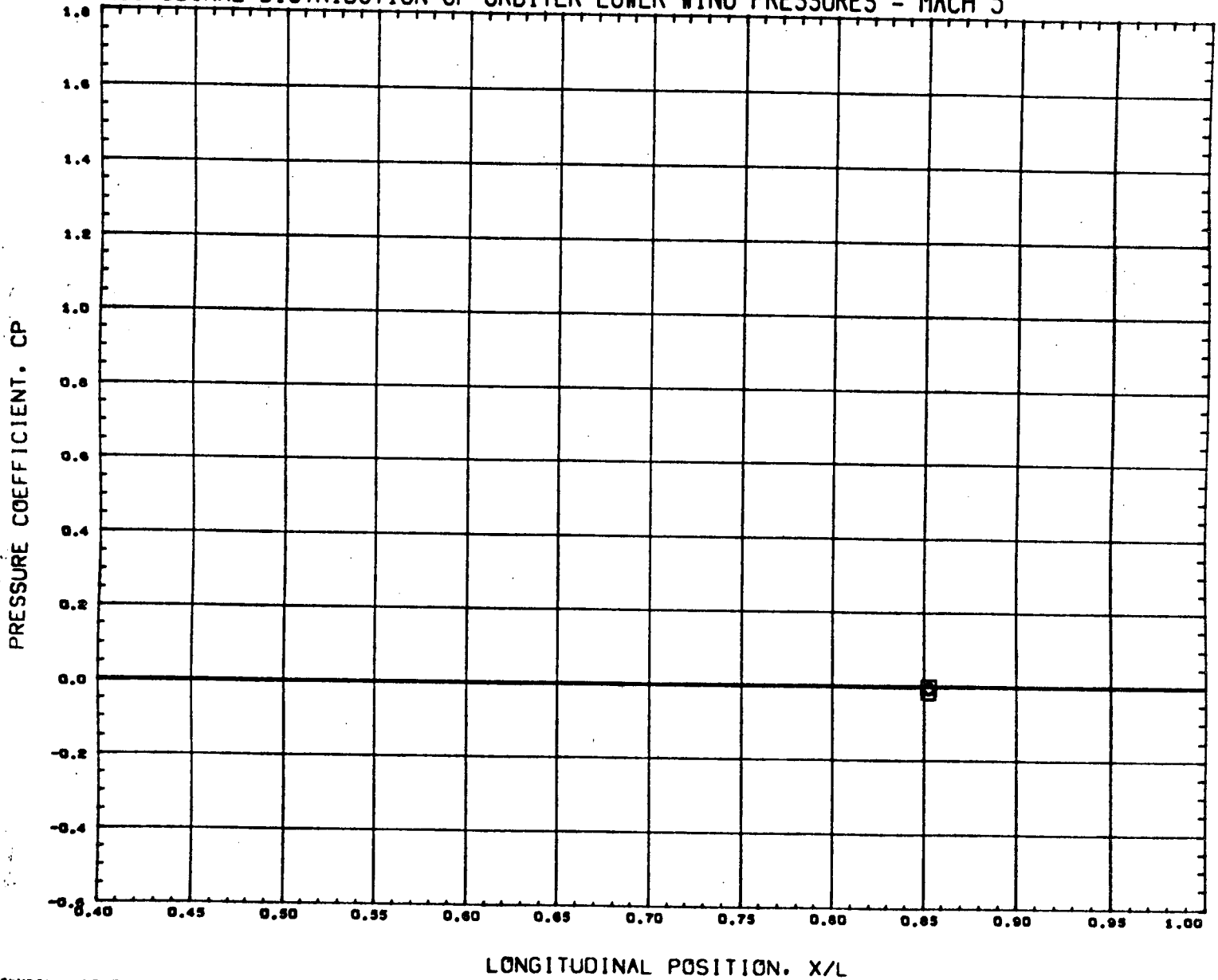
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.366	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	- 9.932	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
8STPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.738	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 9.932	MACH	4.940
ALPHA1	0.000	ORSPW	90.000
88TPOW	100.000		

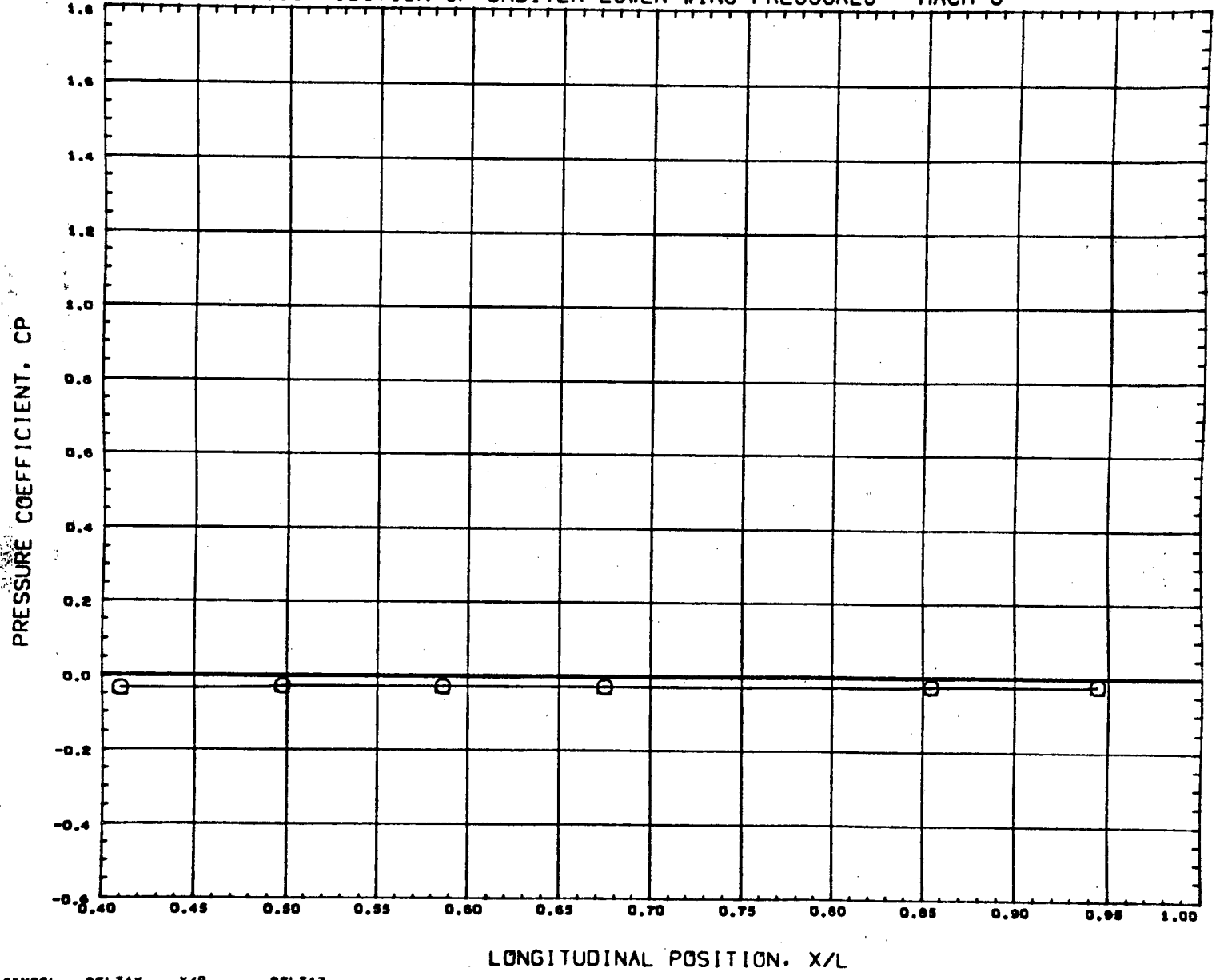
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.920 0.230 0.906

PARAMETRIC VALUES
 ALPHAB - 9.932 MACH 4.940
 ALPHAT 0.000 ORBPOW 50.000
 BSTPCW 100.000

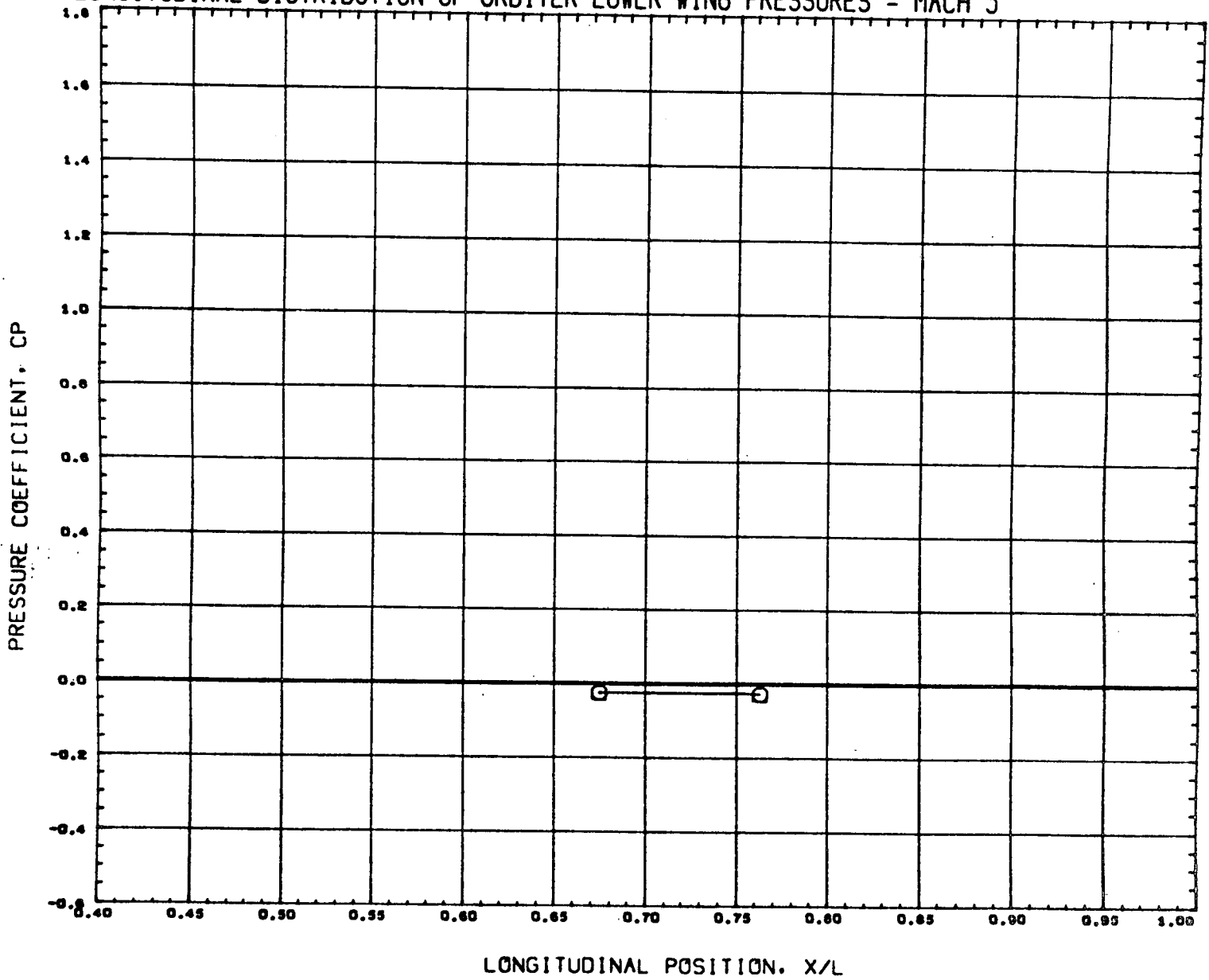
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.908

PARAMETRIC VALUES			
ALPHAB	- 9.932	MACH	4.940
ALPHA1	0.000	ORBPOW	90.000
BSTPOW	100.000		

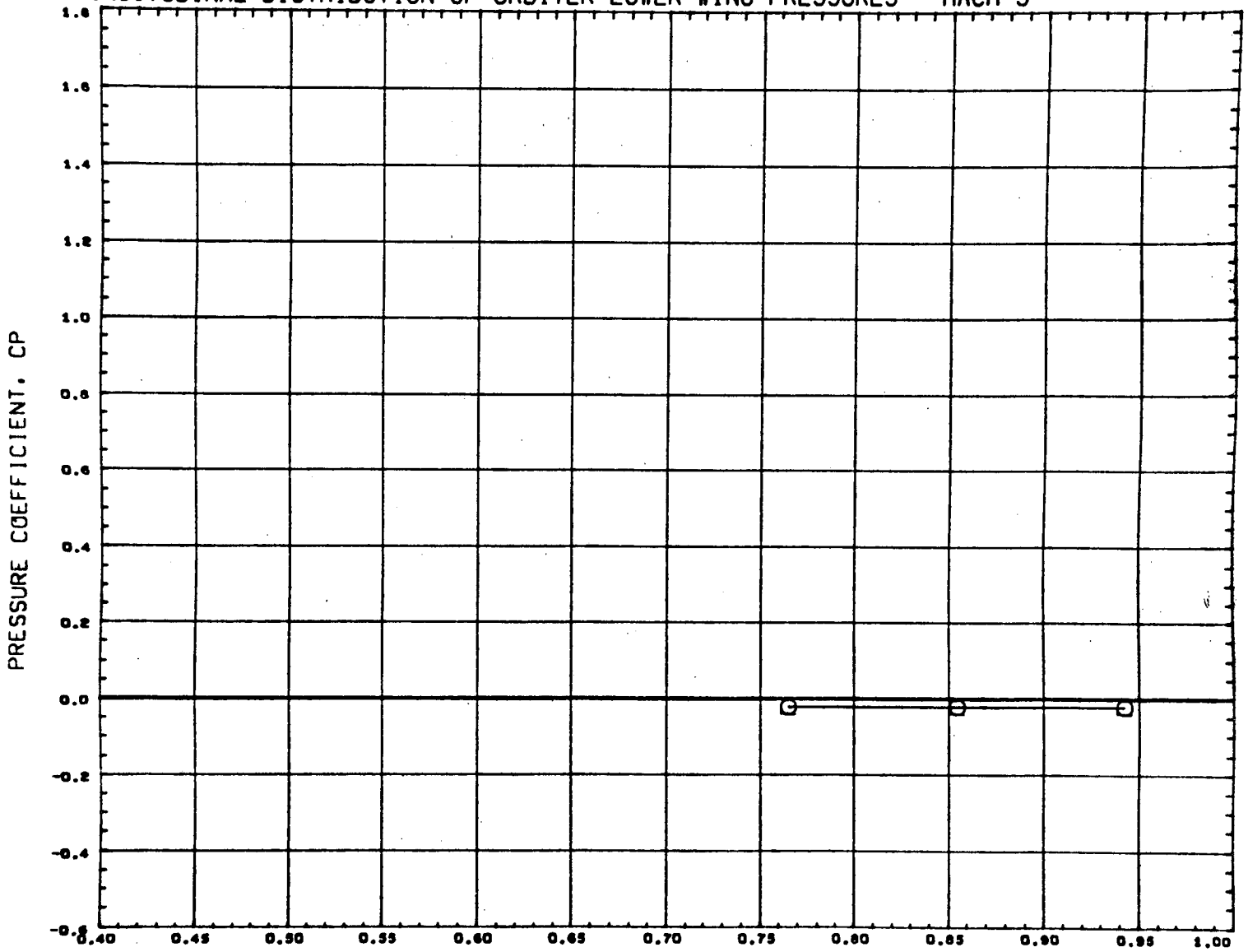
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

PAGE 602

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.568	0.909

PARAMETRIC VALUES			
ALPHAB	- 9.932	MACH	4.940
ALPHA1	0.000	ORBPOW	90.000
BSTPOW	100.000		

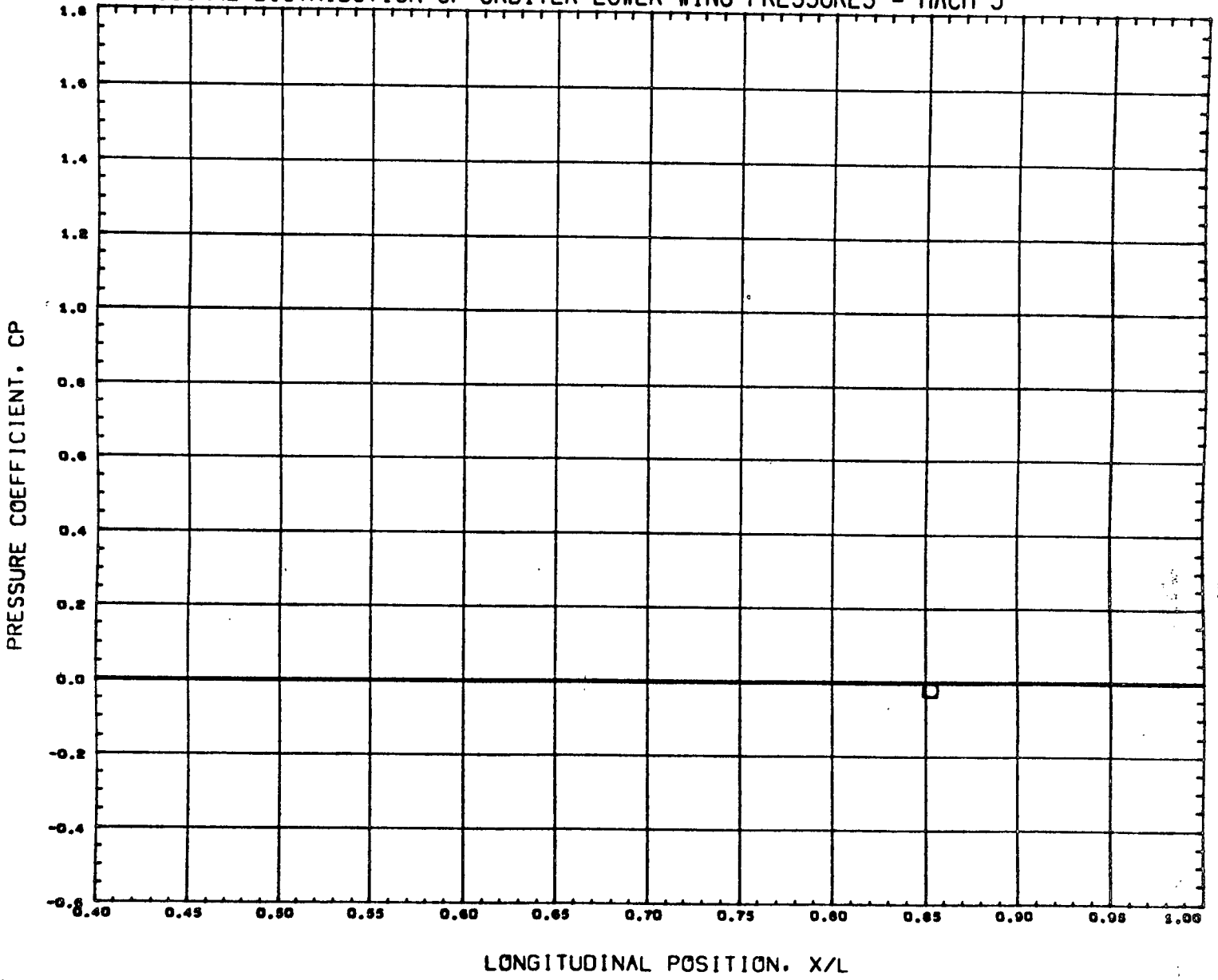
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

PAGE 603

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
□	0.520	0.738	0.908

PARAMETRIC VALUES			
ALPHAB	- 9.932	MACH	4.940
ALPHA I	0.000	ORBPOW	50.000
BSTPCW	100.000		

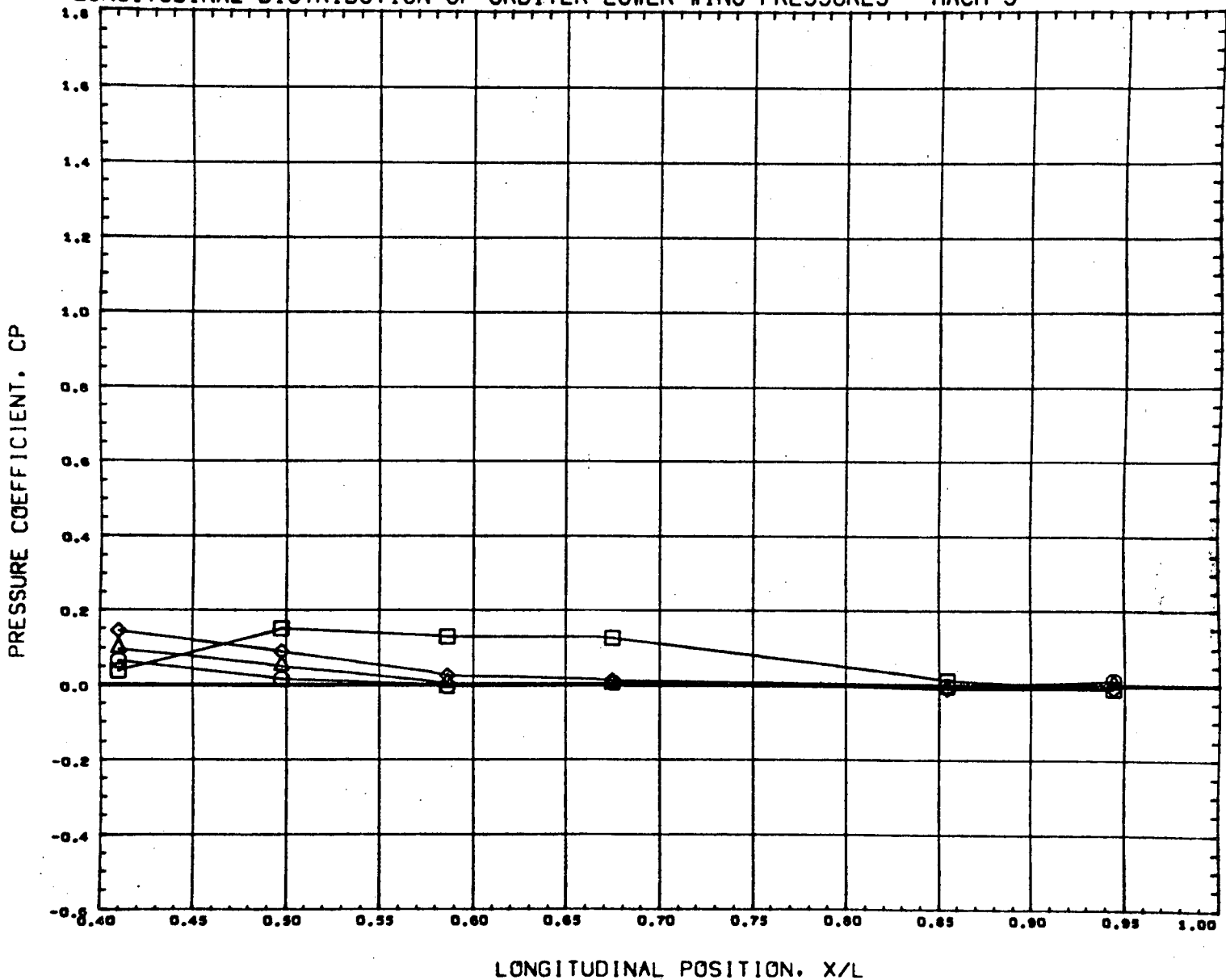
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8521•

PAGE 604

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	- 4.908	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BSTPOW	100.000		

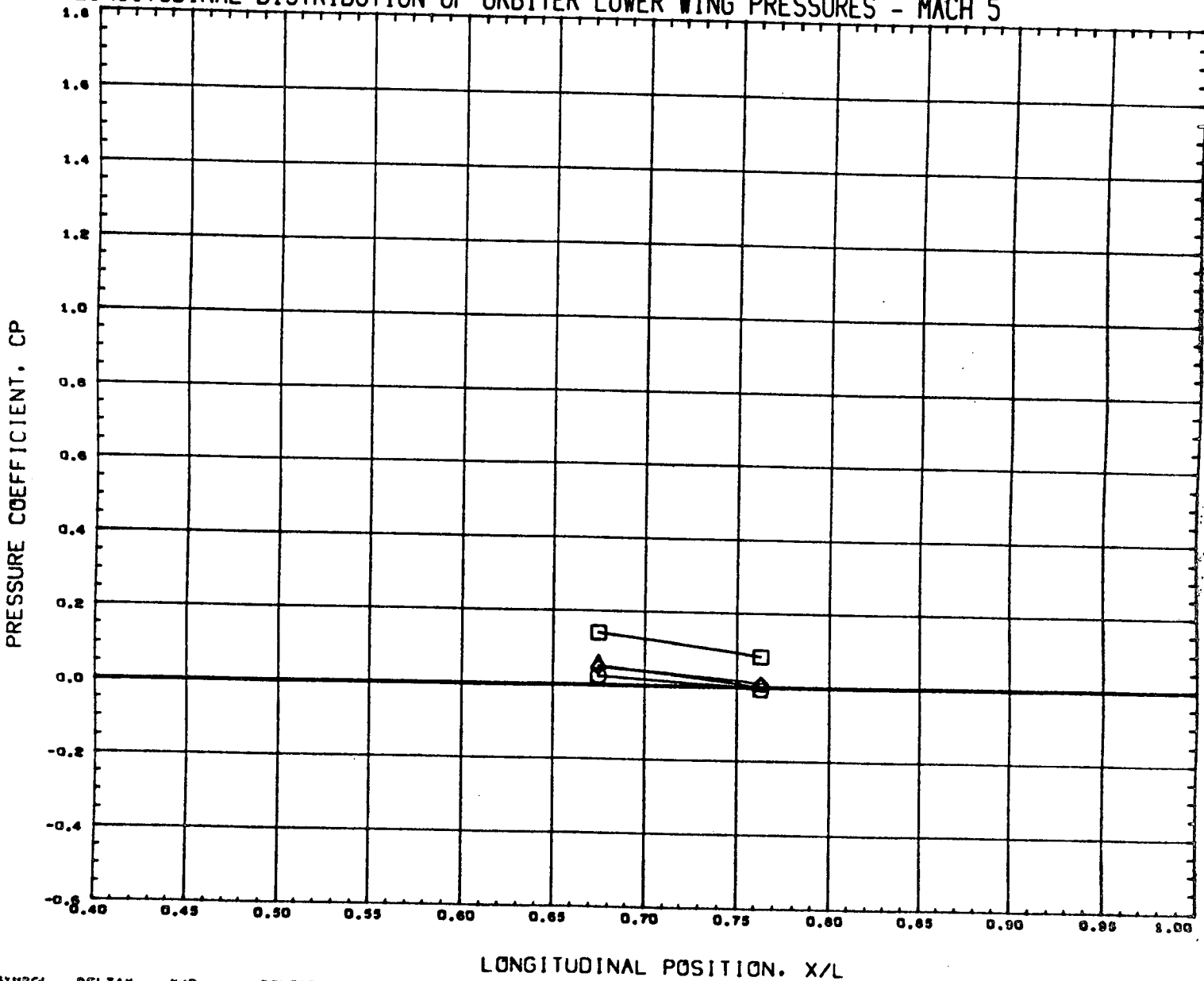
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8522•

PAGE 605

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAS	- 4.908	MACH	4.940
ALPHAI	0.000	ORBPOW	30.000
BSTPOW	100.000		

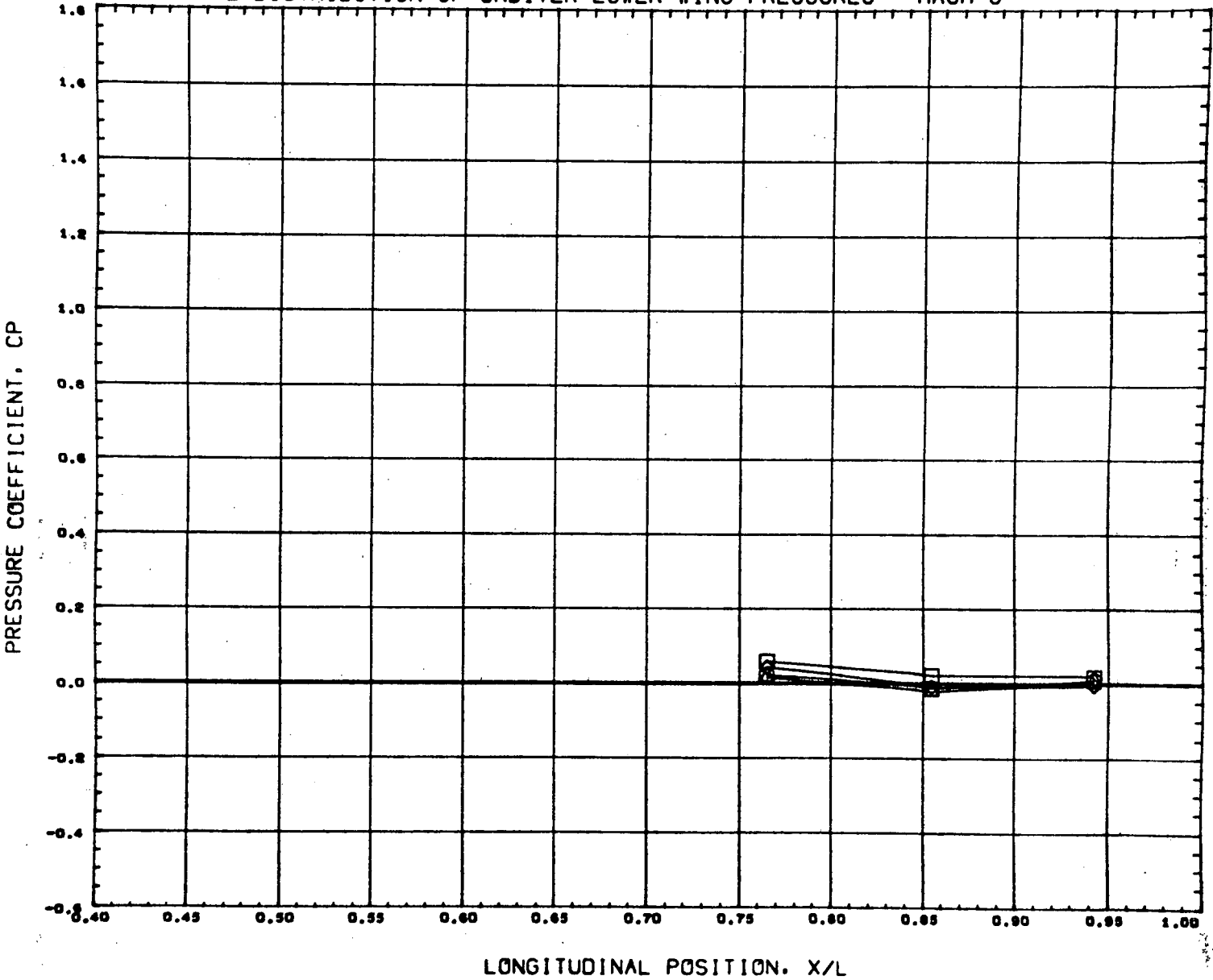
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8522•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

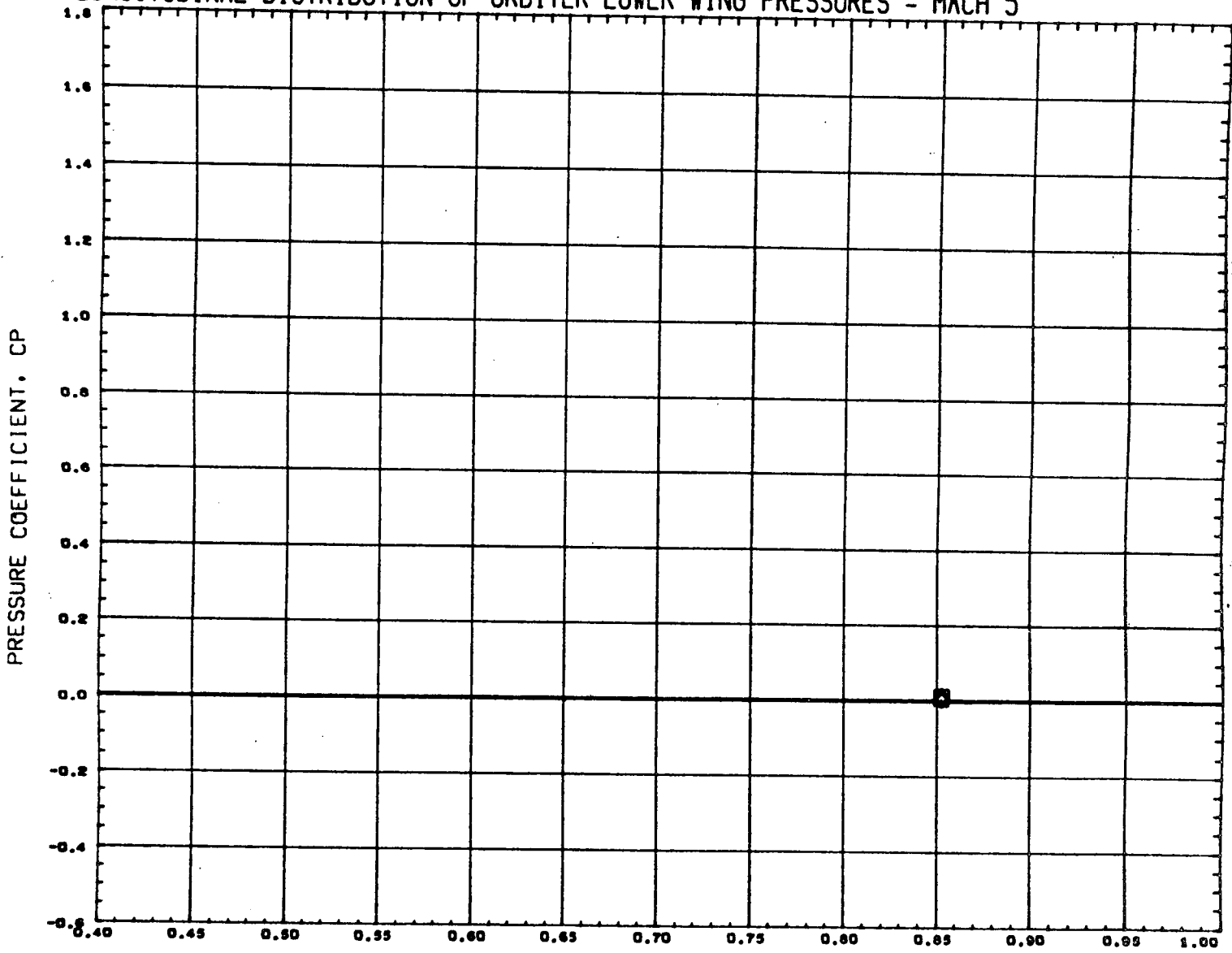


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.368	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	- 4.908	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BSSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.738	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 4.908	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BSTPOW	100.000		

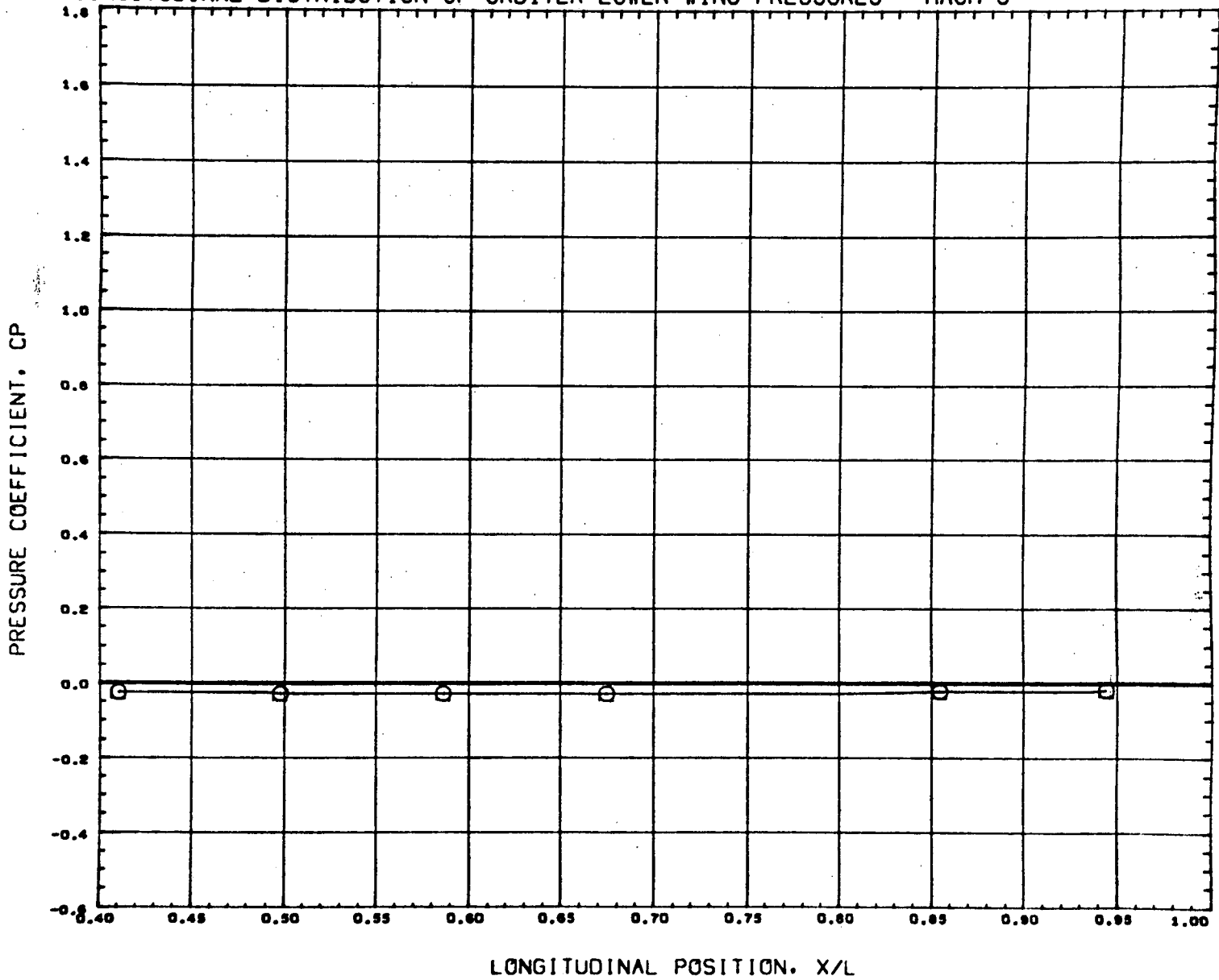
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8522•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.908	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BSTPOW	100.000		

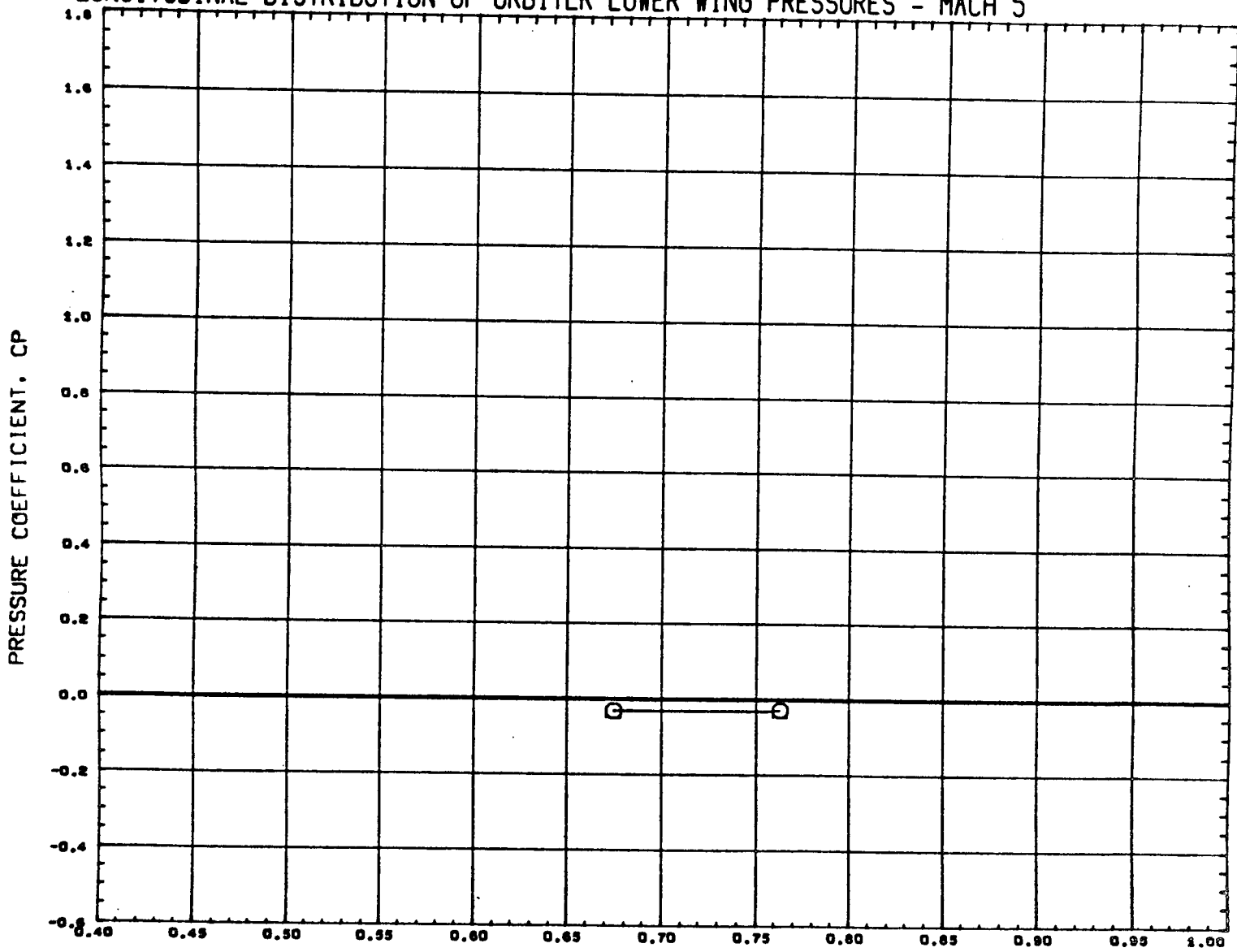
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.908	MACH	4.940
ALPHAT	0.000	ORSPOW	50.000
BSTPOW	100.000		

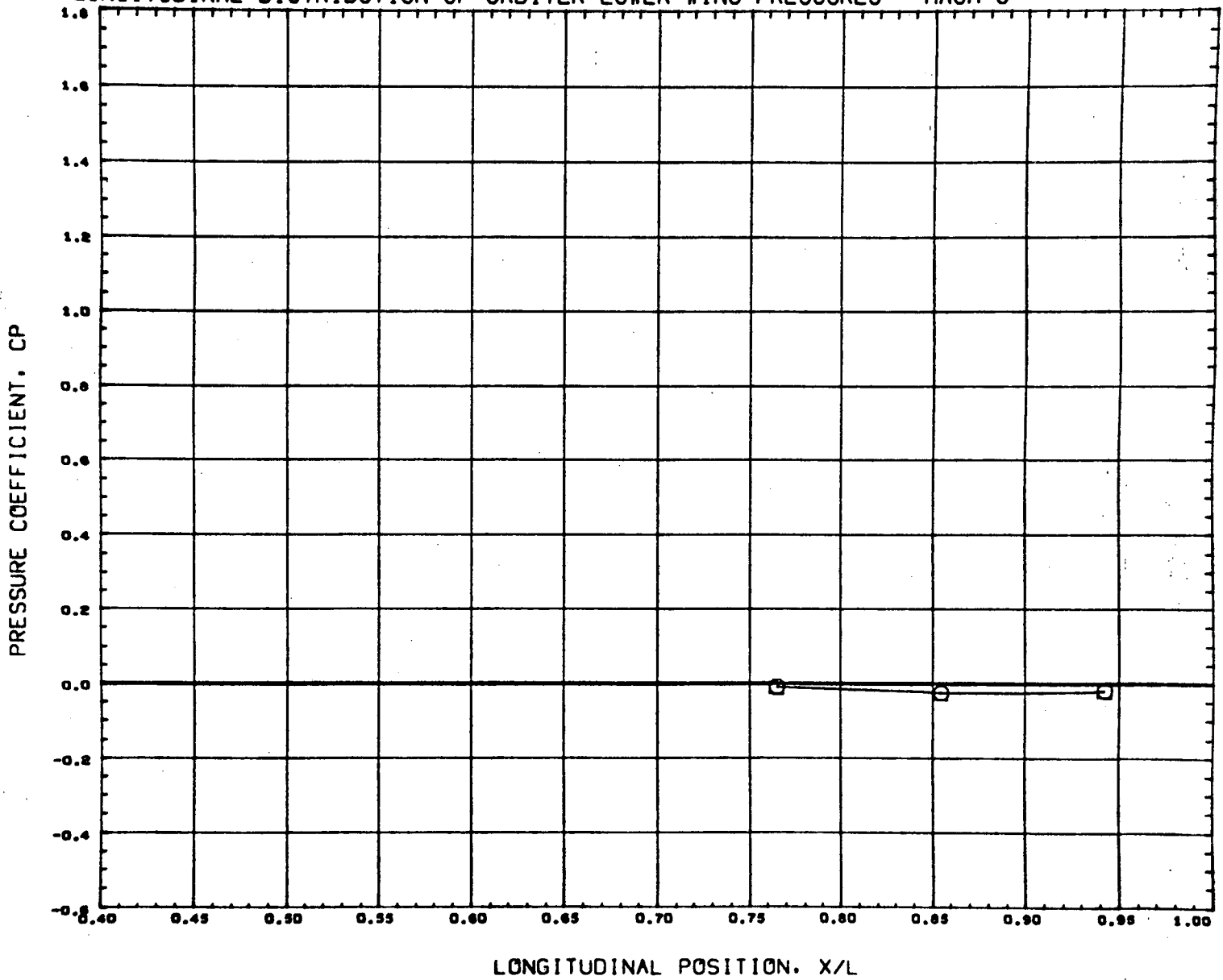
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.966	0.906

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.940
ALPHA1	0.000	ORBPOW	90.000
BSTPOW	100.000		

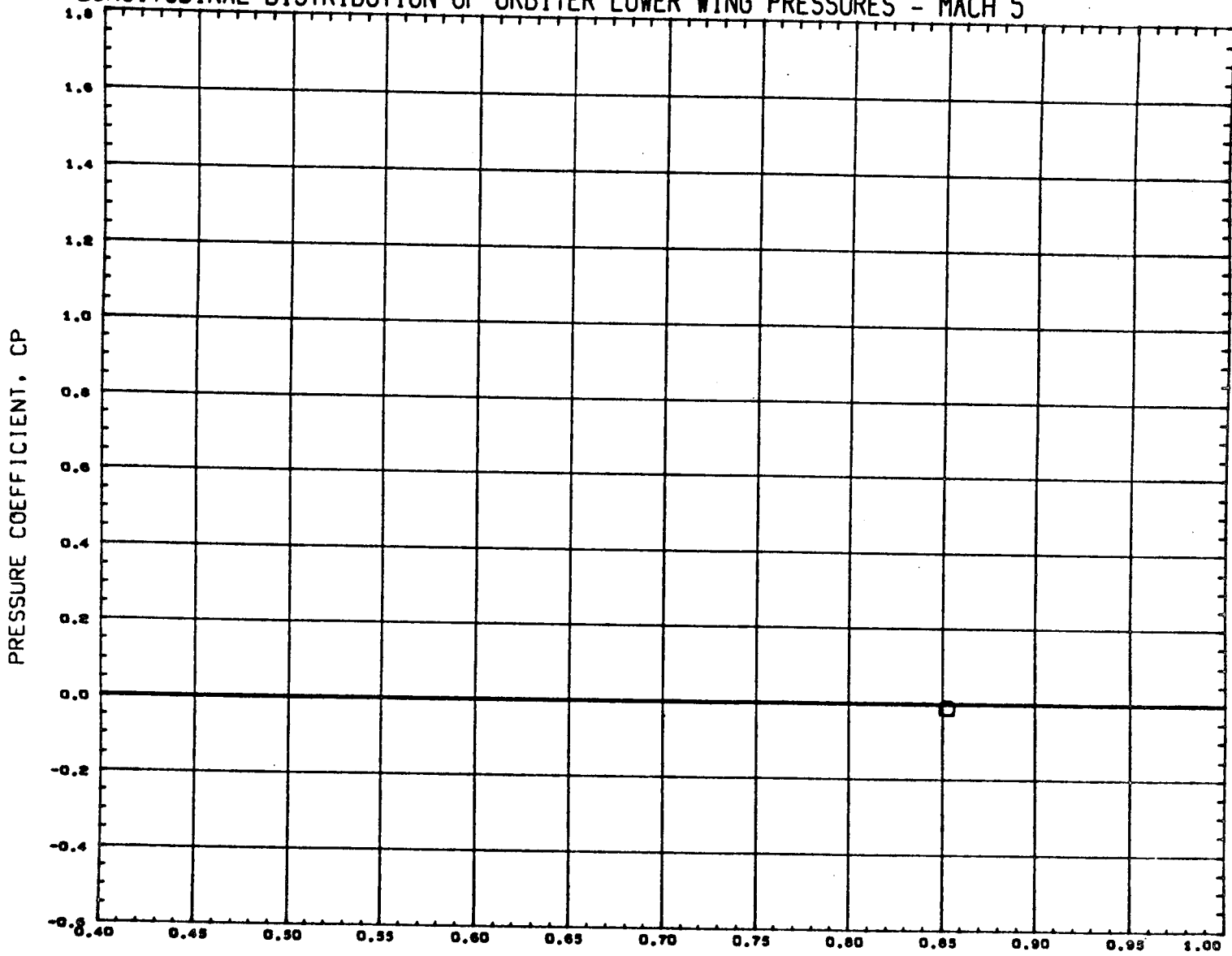
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.320	0.736	0.906

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BSTPOW	100.000		

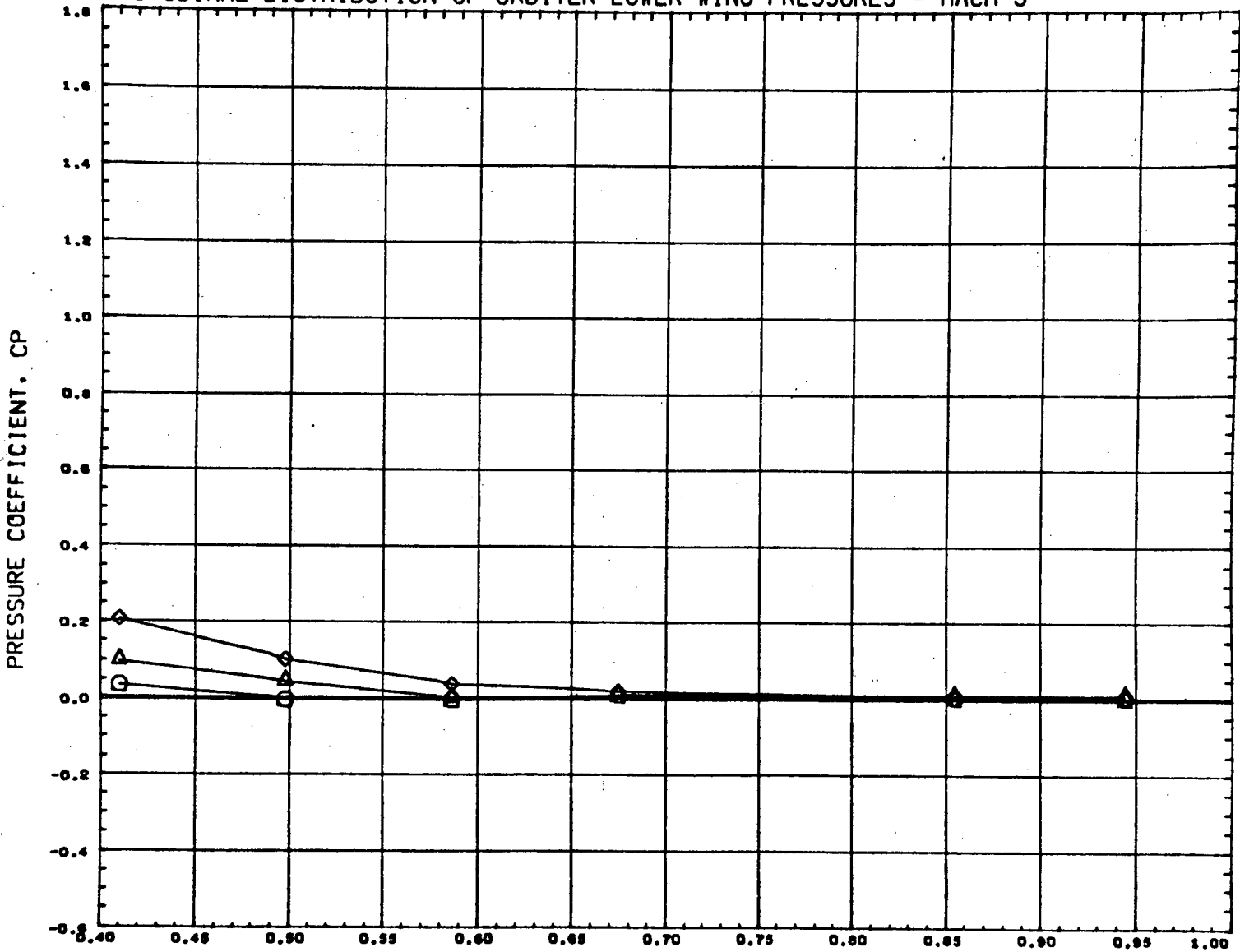
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	0.037	MACH	4.940
ALPHAI	0.000	ORBPOW	80.000
BSTPOW	100.000		

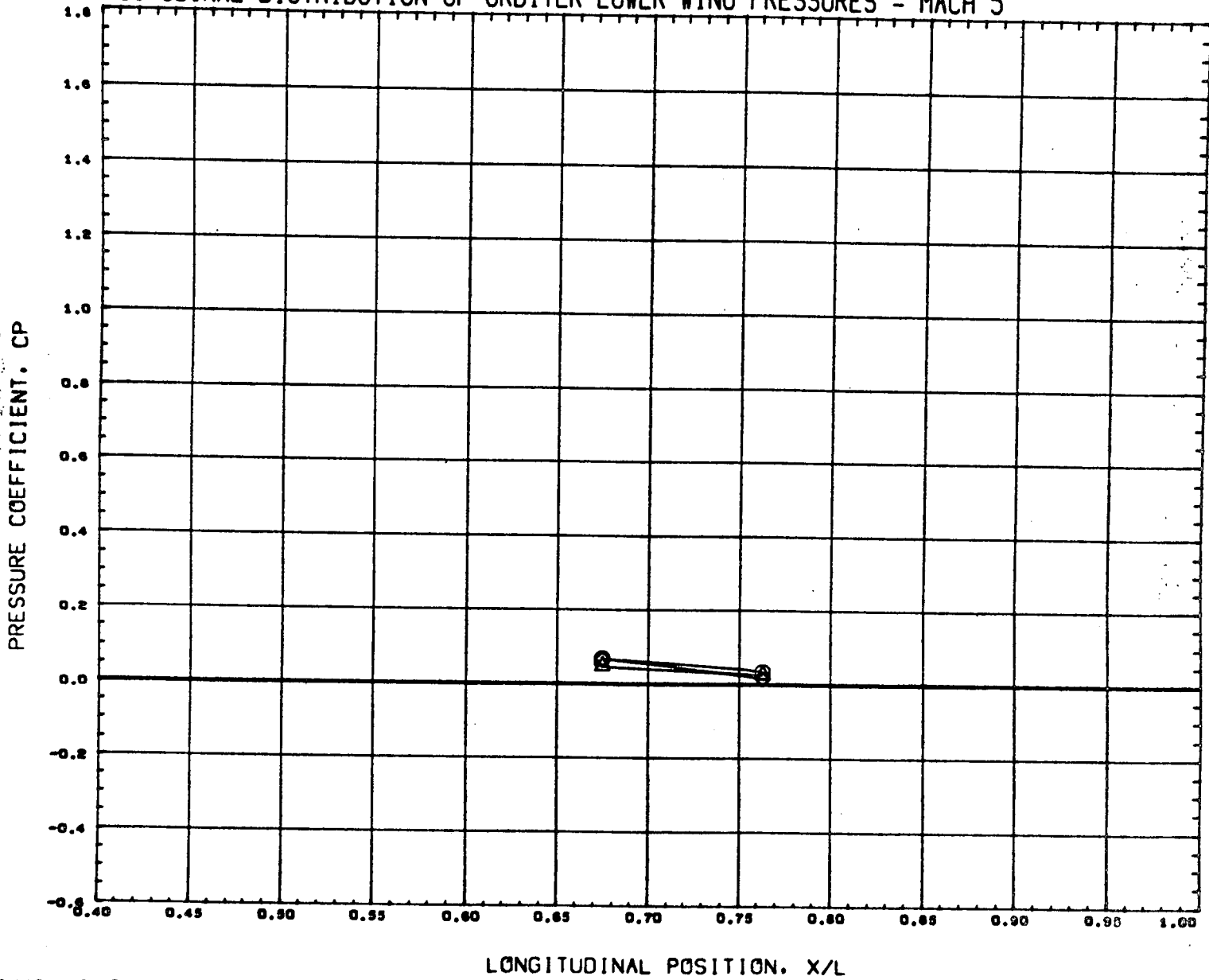
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	0.037	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BBTPOW	100.000		

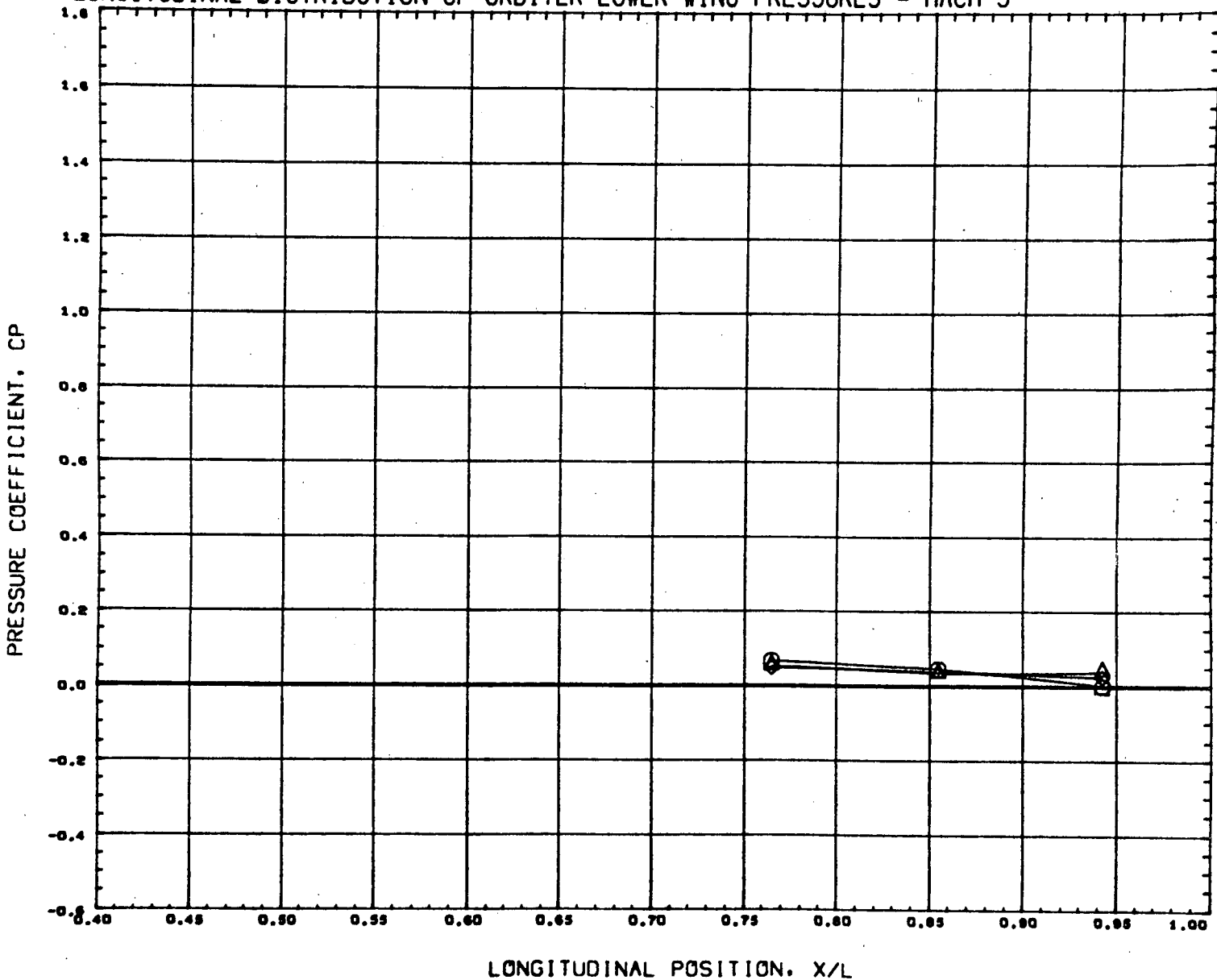
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.560	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES		
ALPHAB	0.037	MACH 4.940
ALPHAI	0.000	ORBPOW 50.000
BSTPOW	100.000	

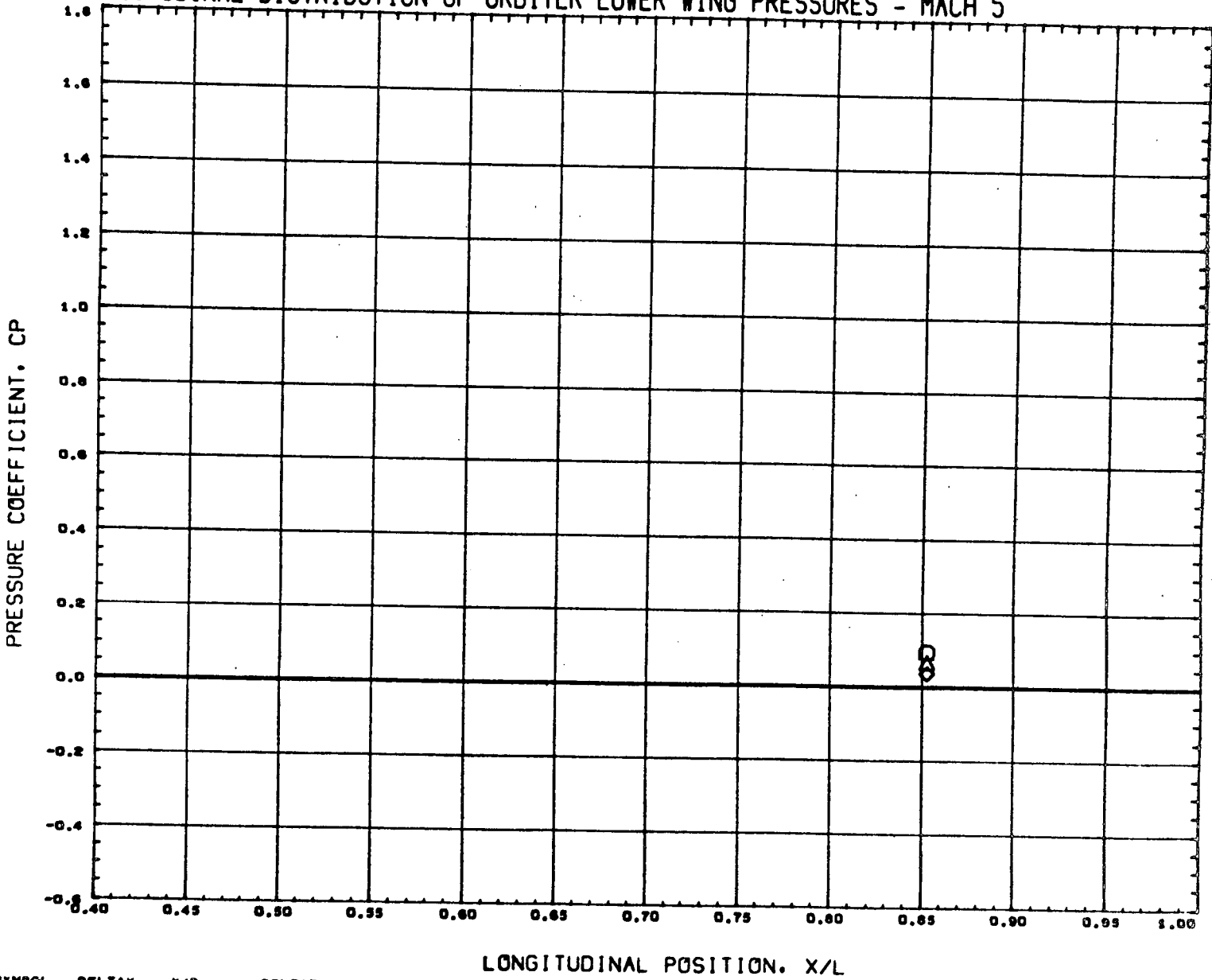
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.736	0.114
△	0.103		
◇	0.169		

PARAMETRIC VALUES			
ALPHAB	0.037	MACH	4.940
ALPHA1	0.000	ORSPOW	90.000
BSTPOW	100.000		

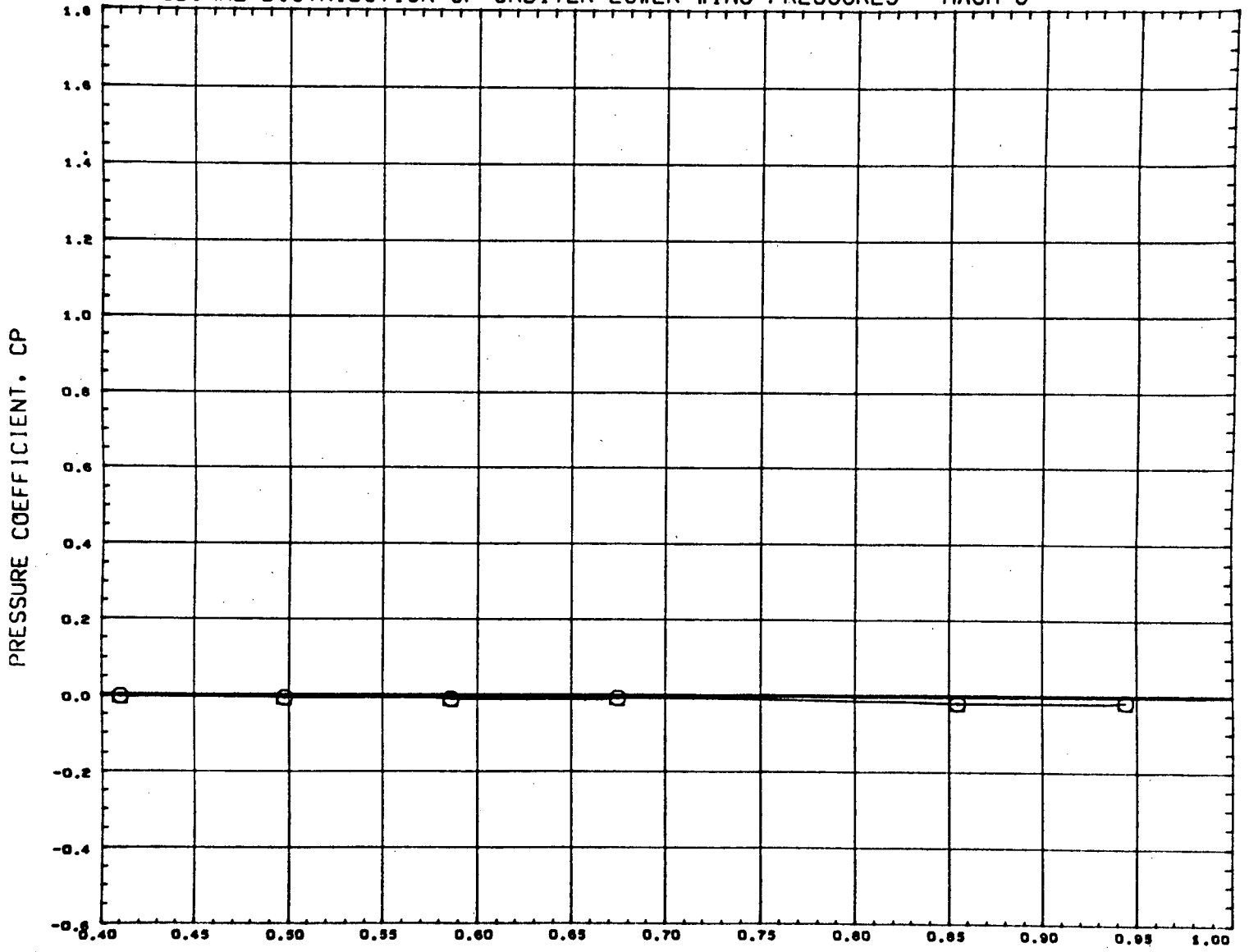
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.909

PARAMETRIC VALUES			
ALPHAB	0.037	MACH	4.940
ALPHA I	0.000	ORBPOW	50.000
BSTPOW	100.000		

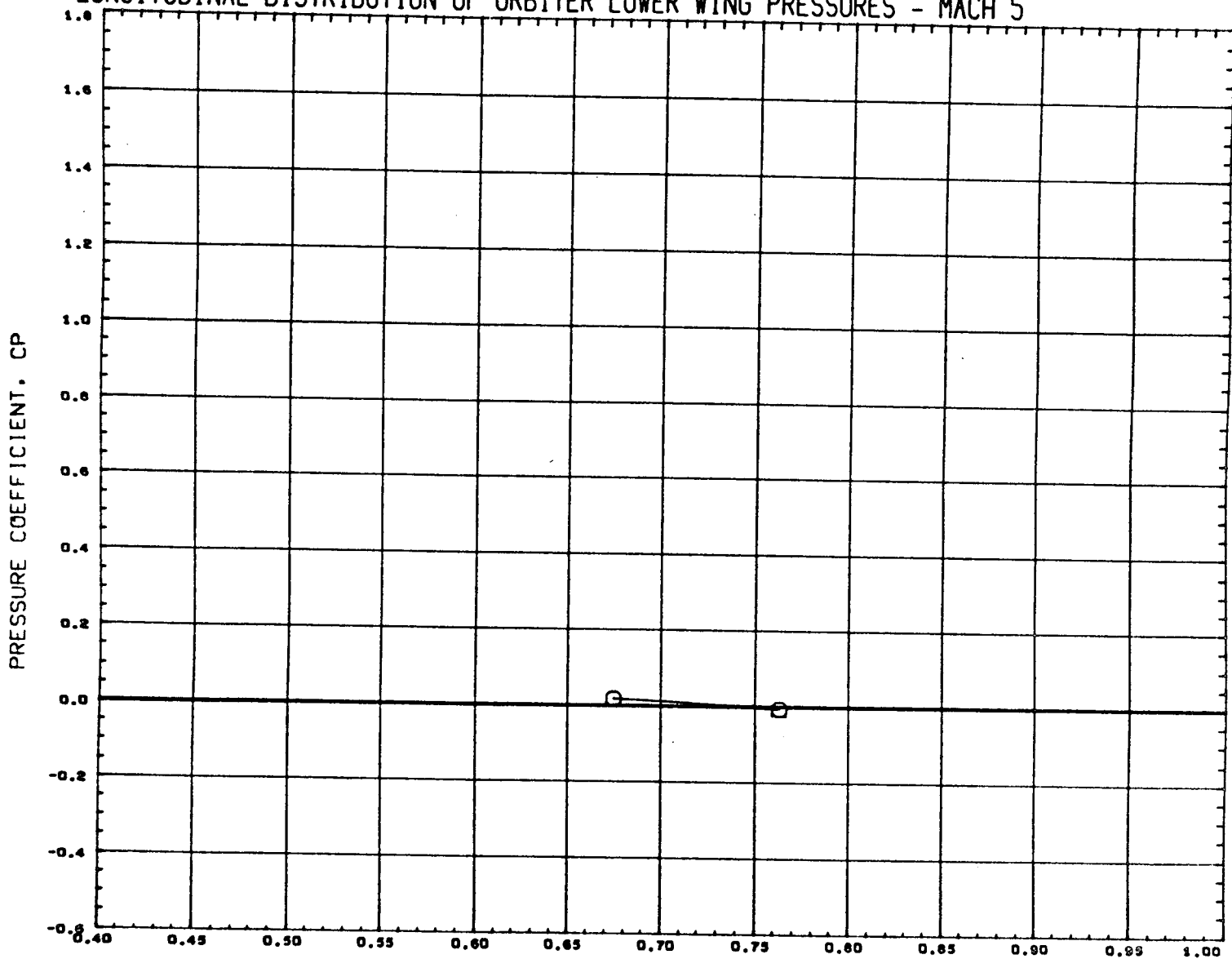
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.906

PARAMETRIC VALUES			
ALPHAB	0.037	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

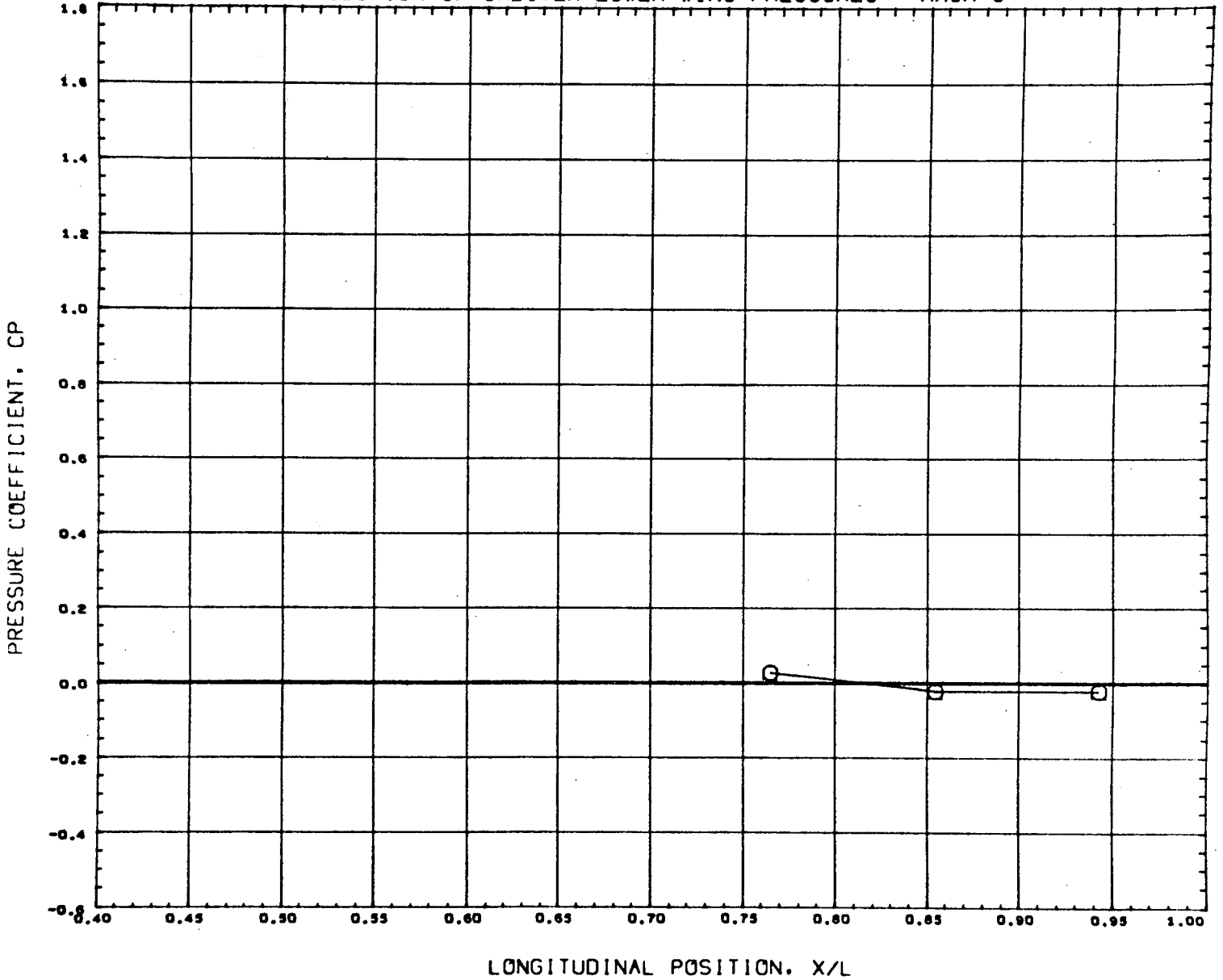
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.569	0.909

PARAMETRIC VALUES			
ALPHAB	0.037	MACH	4.940
ALPHA1	0.000	ORBP0W	50.000
BSTP0W	100.000		

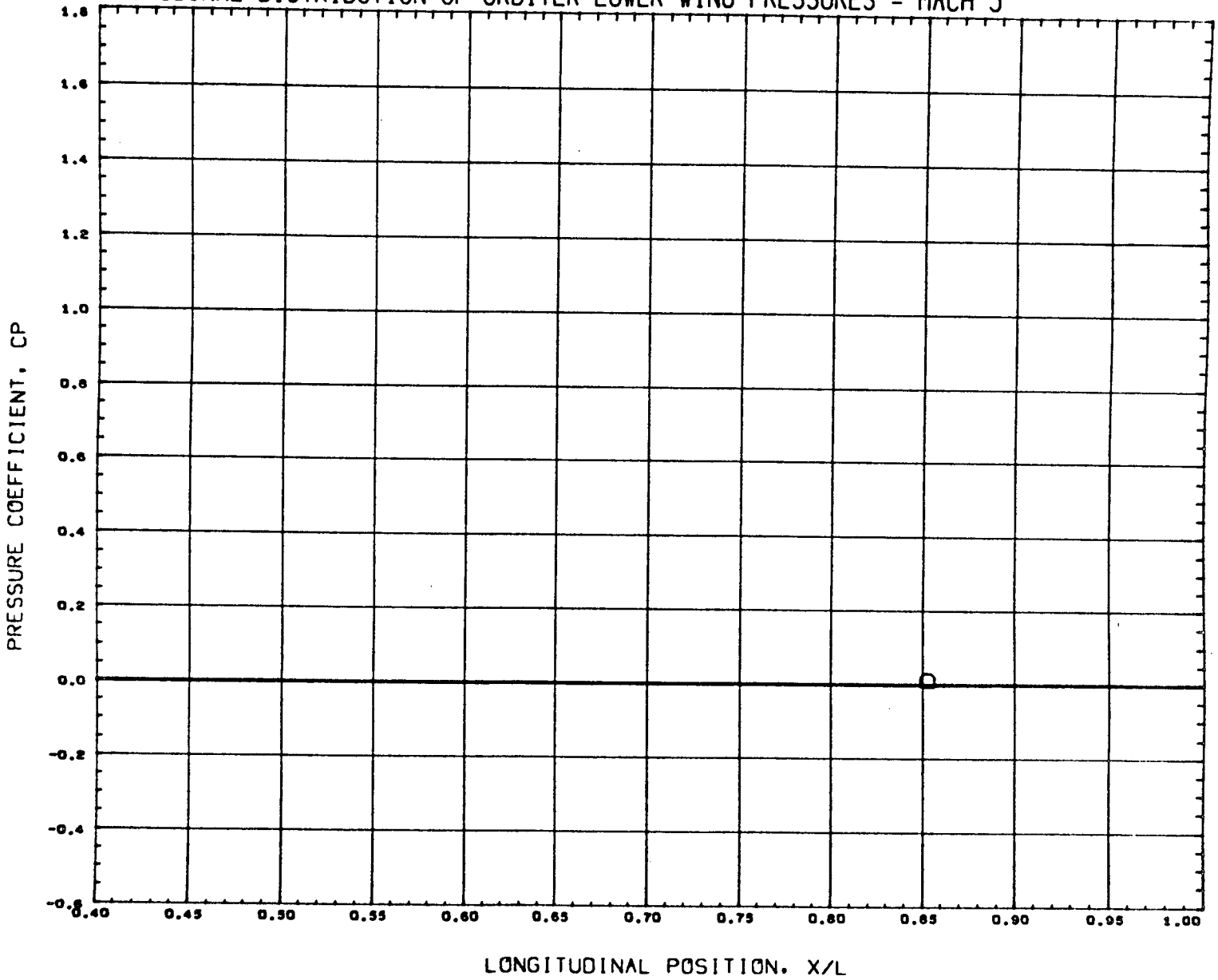
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.520 0.738 0.908

PARAMETRIC VALUES
 ALPHAB 0.037 MACH 4.940
 ALPHA1 0.000 ORBPOW 50.000
 BSTPOW 100.000

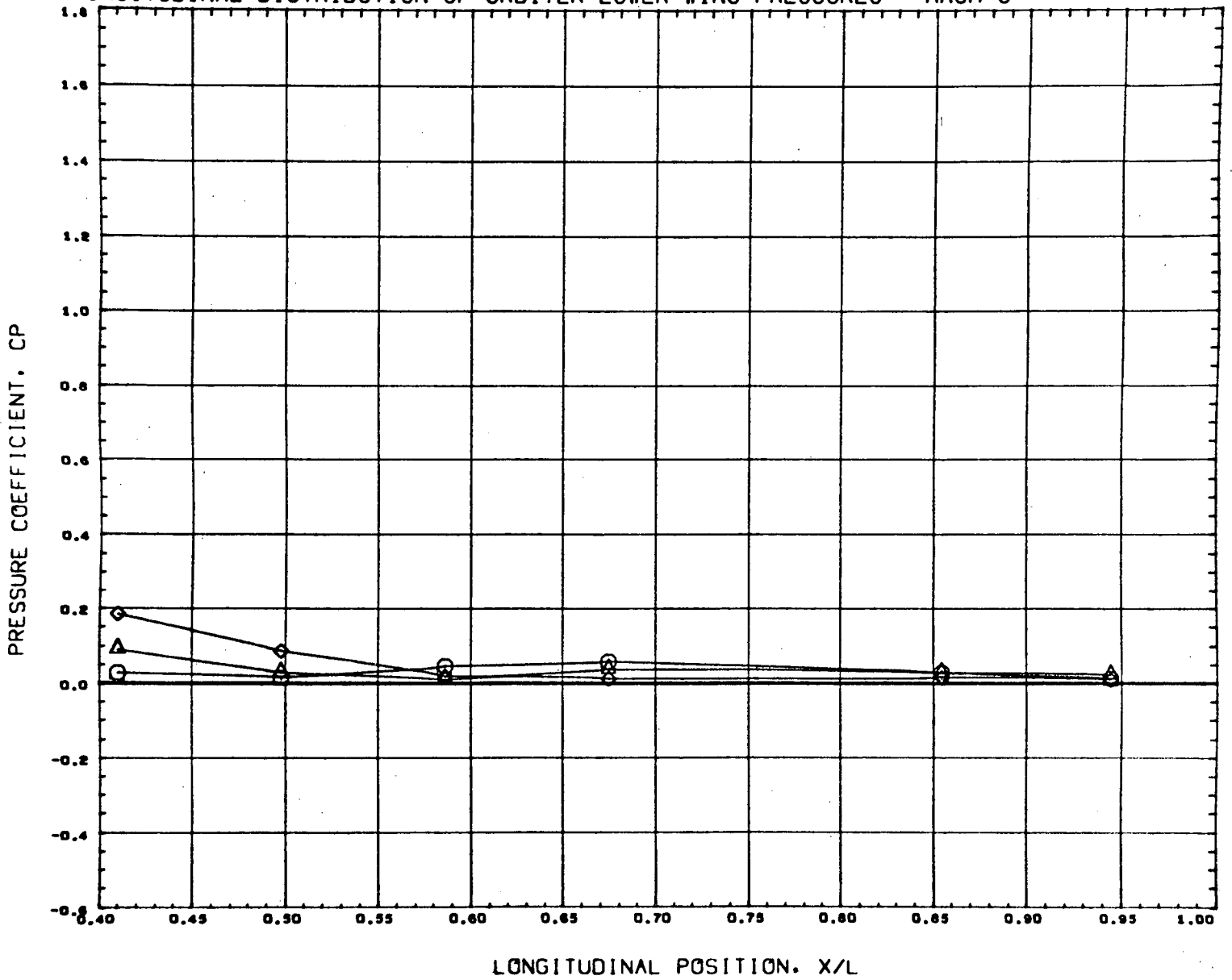
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

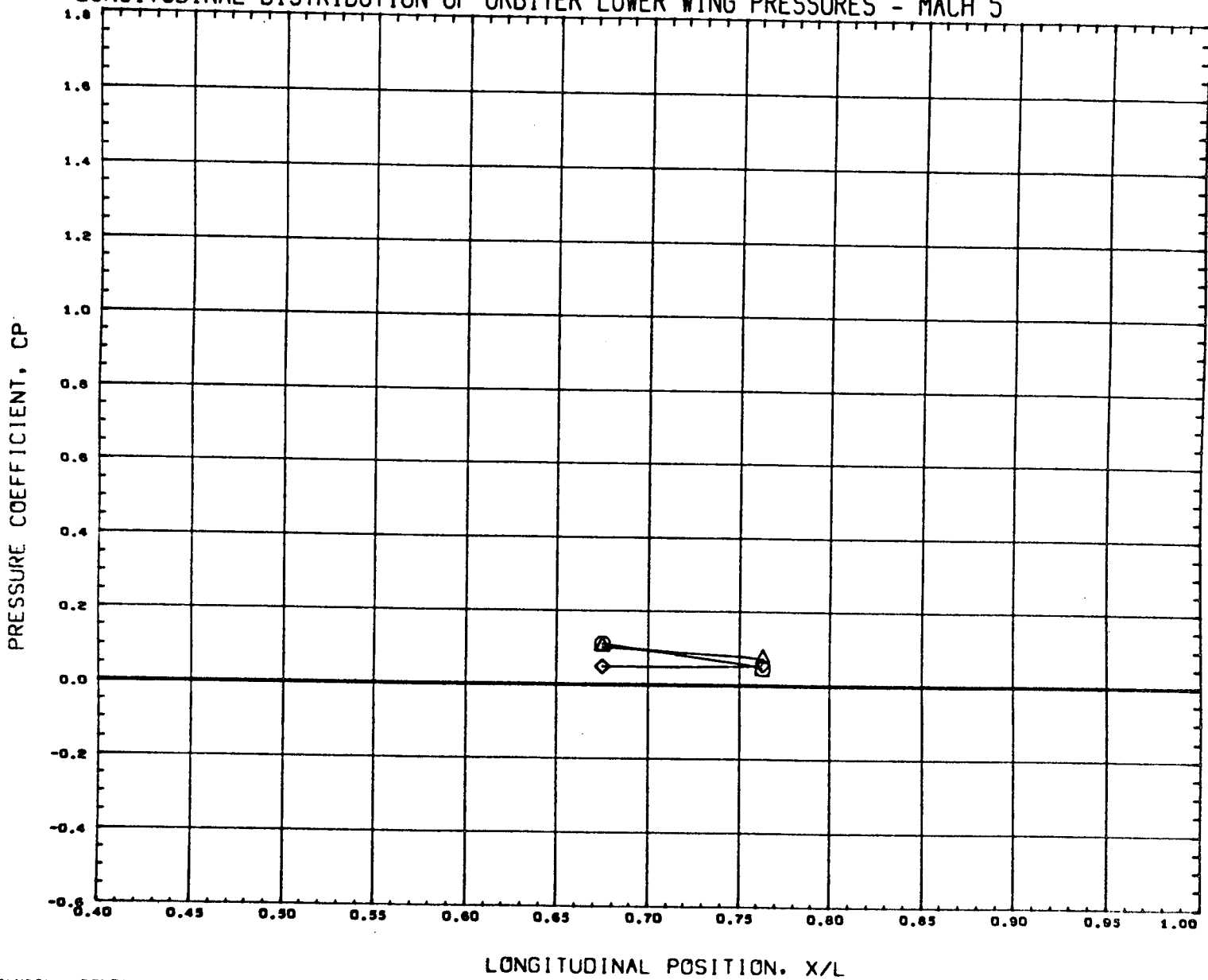


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	5.012	MACH	4.940
ALPHA I	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	5.012	MACH	4.940
ALPHA I	0.000	ORBPOW	50.000
BSTPOW	100.000		

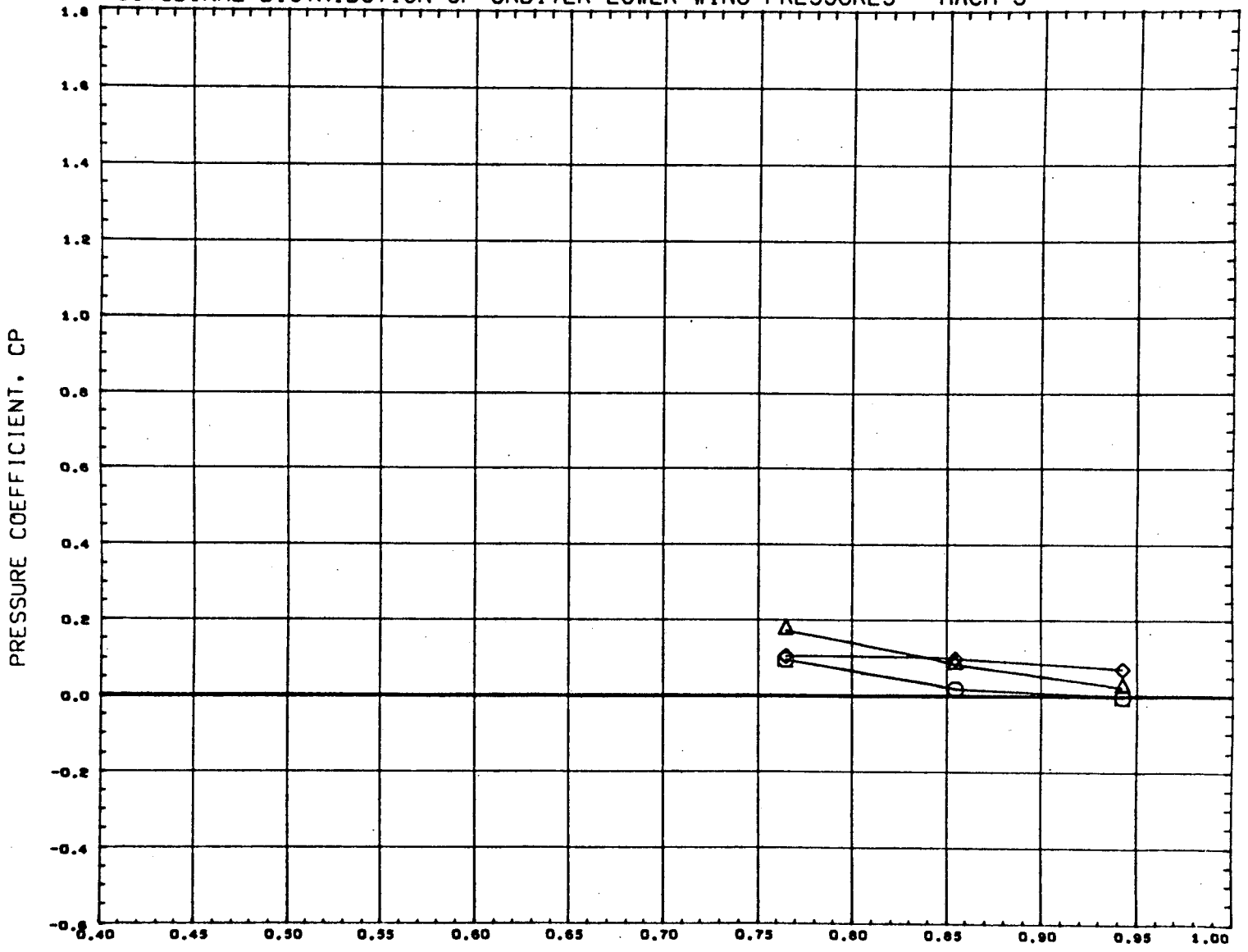
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

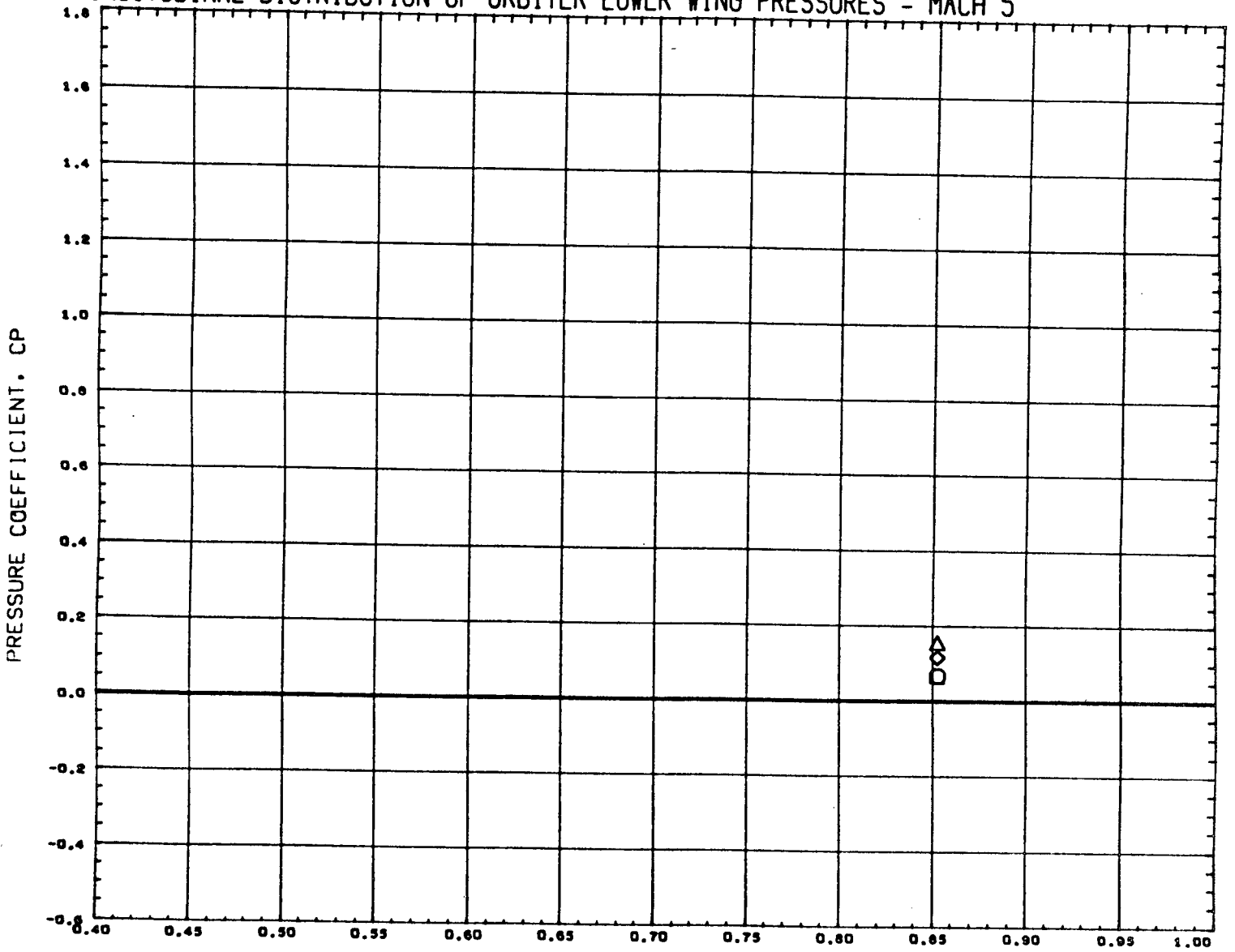


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.366	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	5.012	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.739	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	5.012	MACH	4.940
ALPHAI	0.000	ORBPOW	30.000
BSTPOW	100.000		

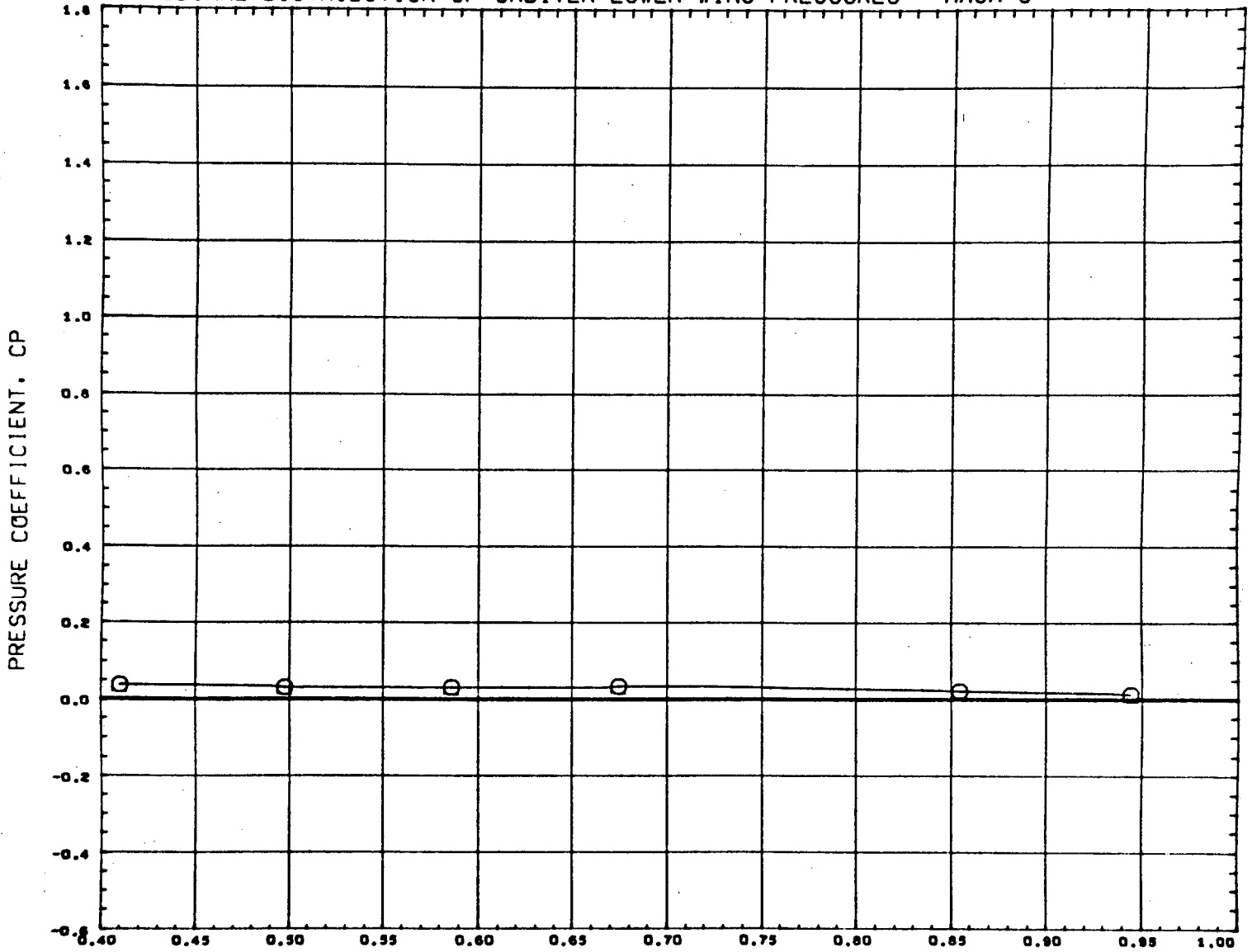
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.908

PARAMETRIC VALUES			
ALPHA B	5.012	MACH	4.940
ALPHA I	0.000	ORBPOW	50.000
BSTPOW	100.000		

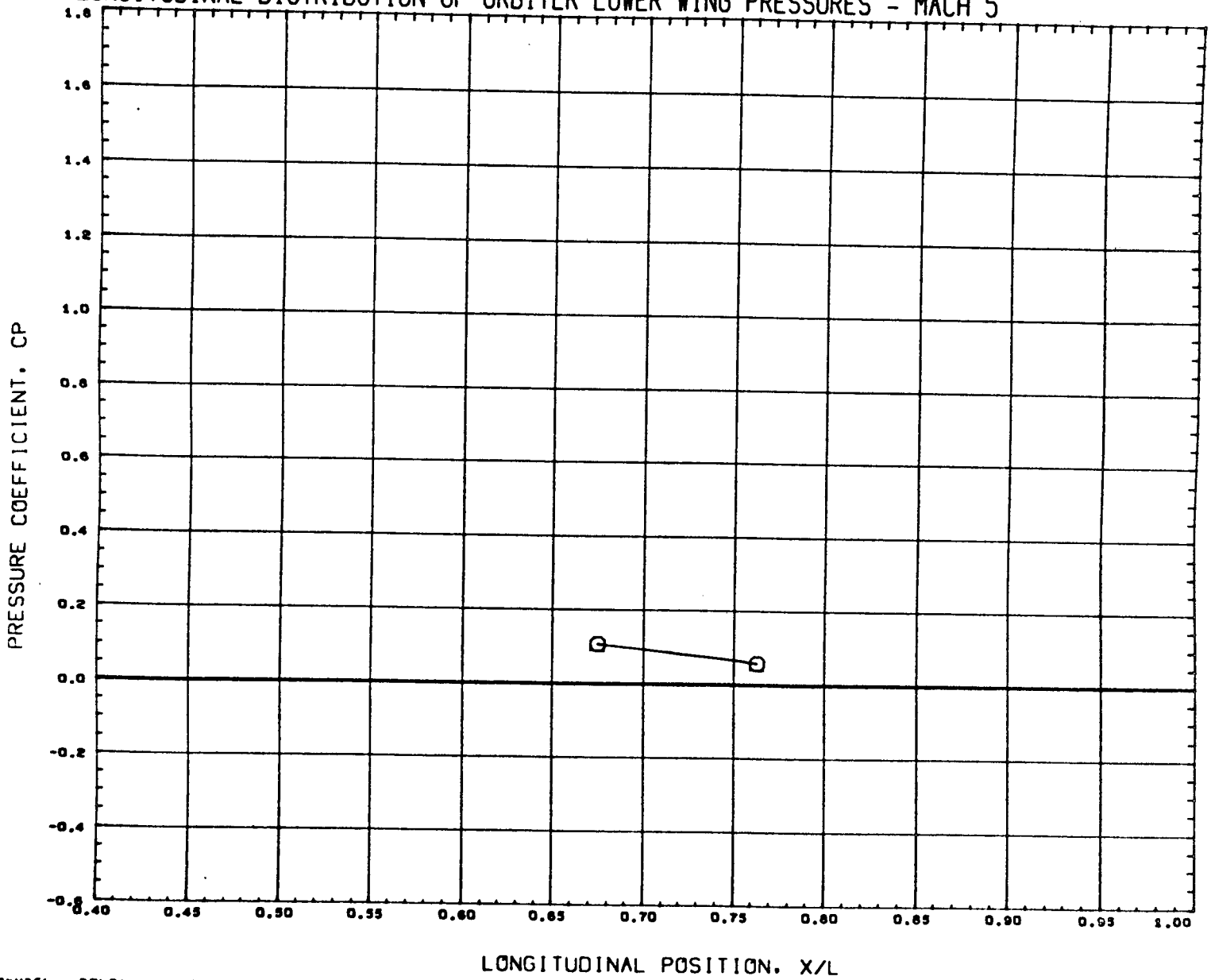
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.520 0.399 0.909

PARAMETRIC VALUES
 ALPHAB 5.012 MACH 4.940
 ALPHA1 0.000 ORBPOW 90.000
 BSTPOW 100.000

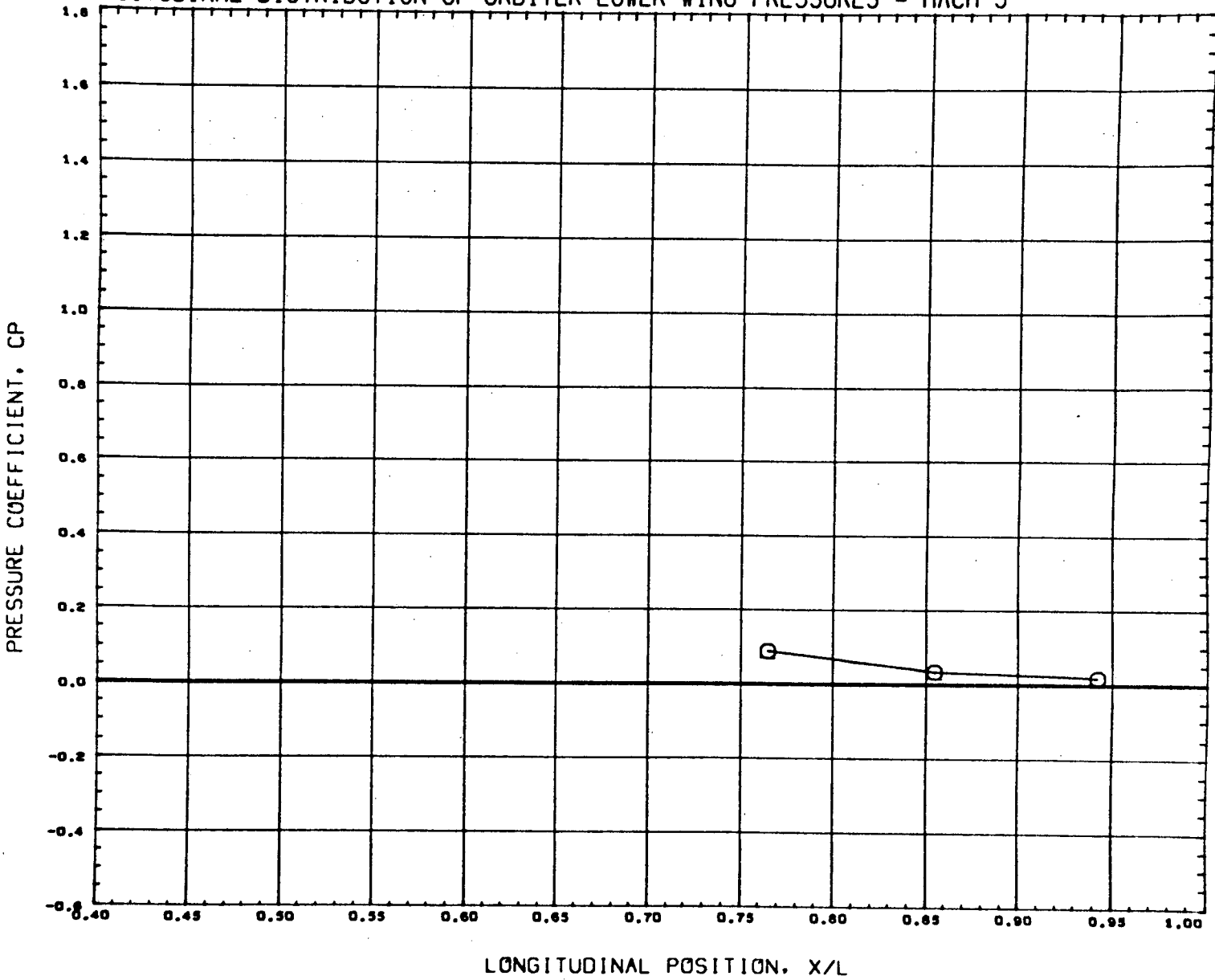
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.569	0.909

PARAMETRIC VALUES			
ALPHA B	5.012	MACH	4.940
ALPHA I	0.000	ORBPOW	90.000
BSTPOW	100.000		

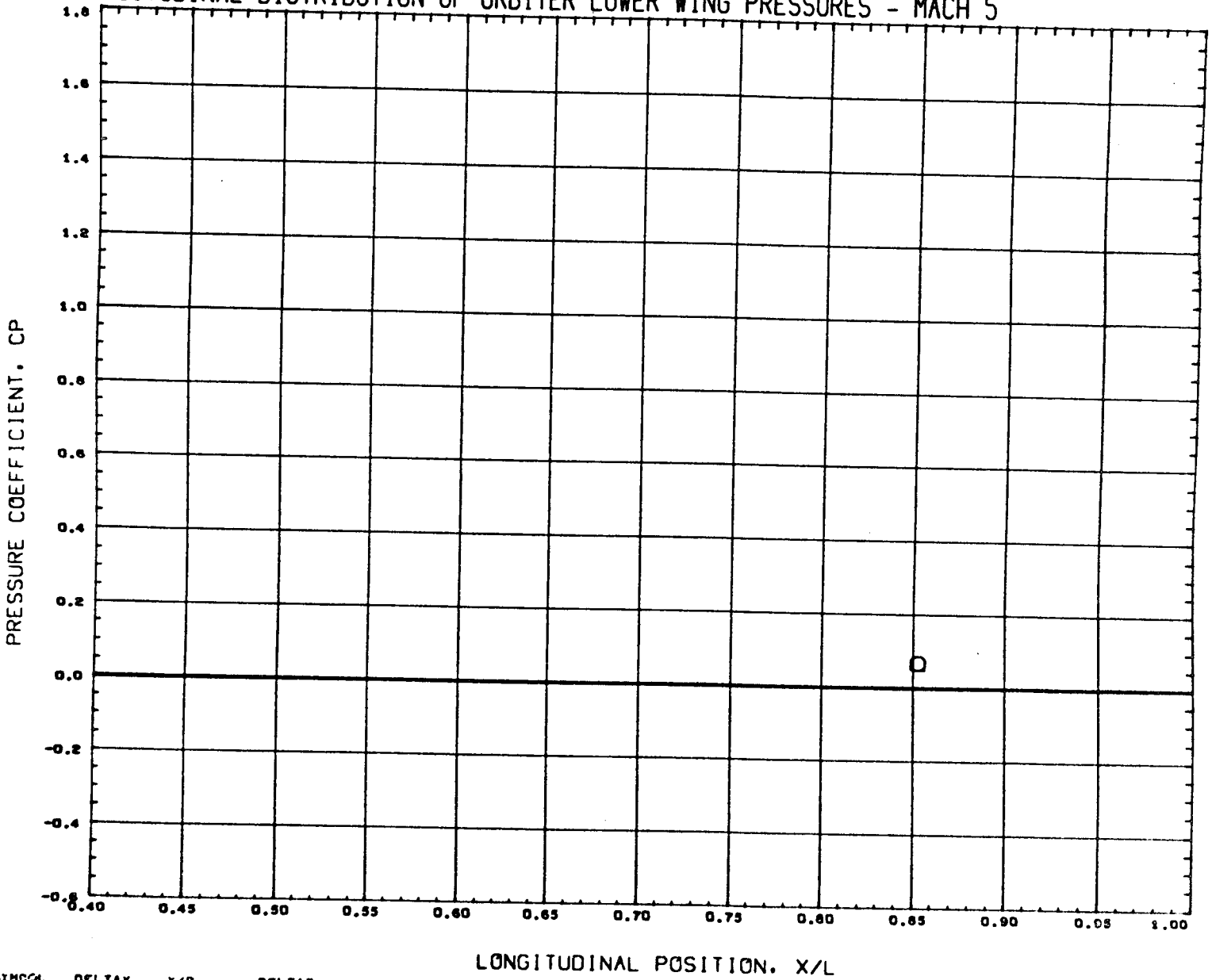
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.736	0.906

PARAMETRIC VALUES			
ALPHAB	3.012	MACH	4.940
ALPHAI	0.000	ORBPOW	50.000
BSTPOW	100.000		

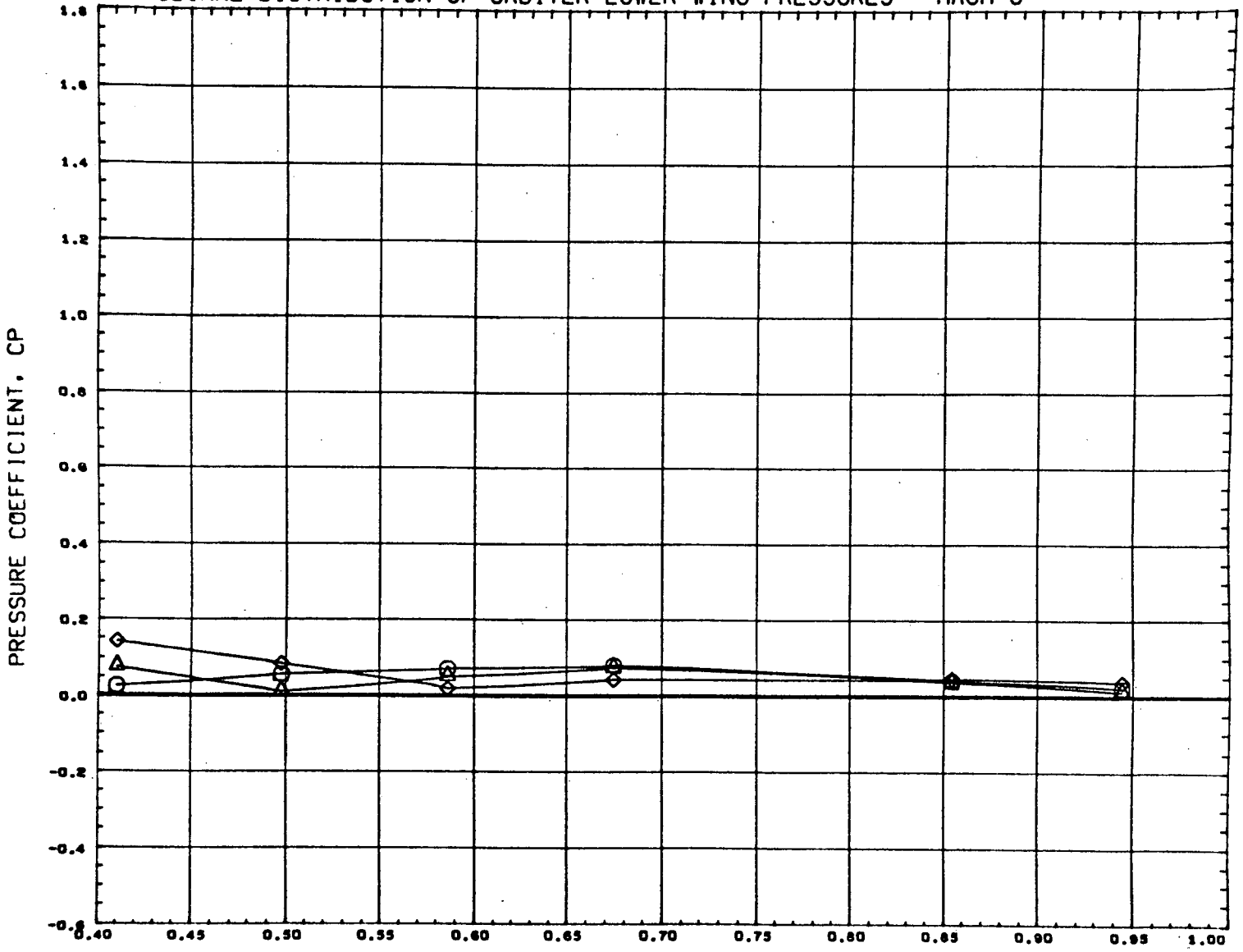
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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◇	0.163		

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BSTPOW	100.000		

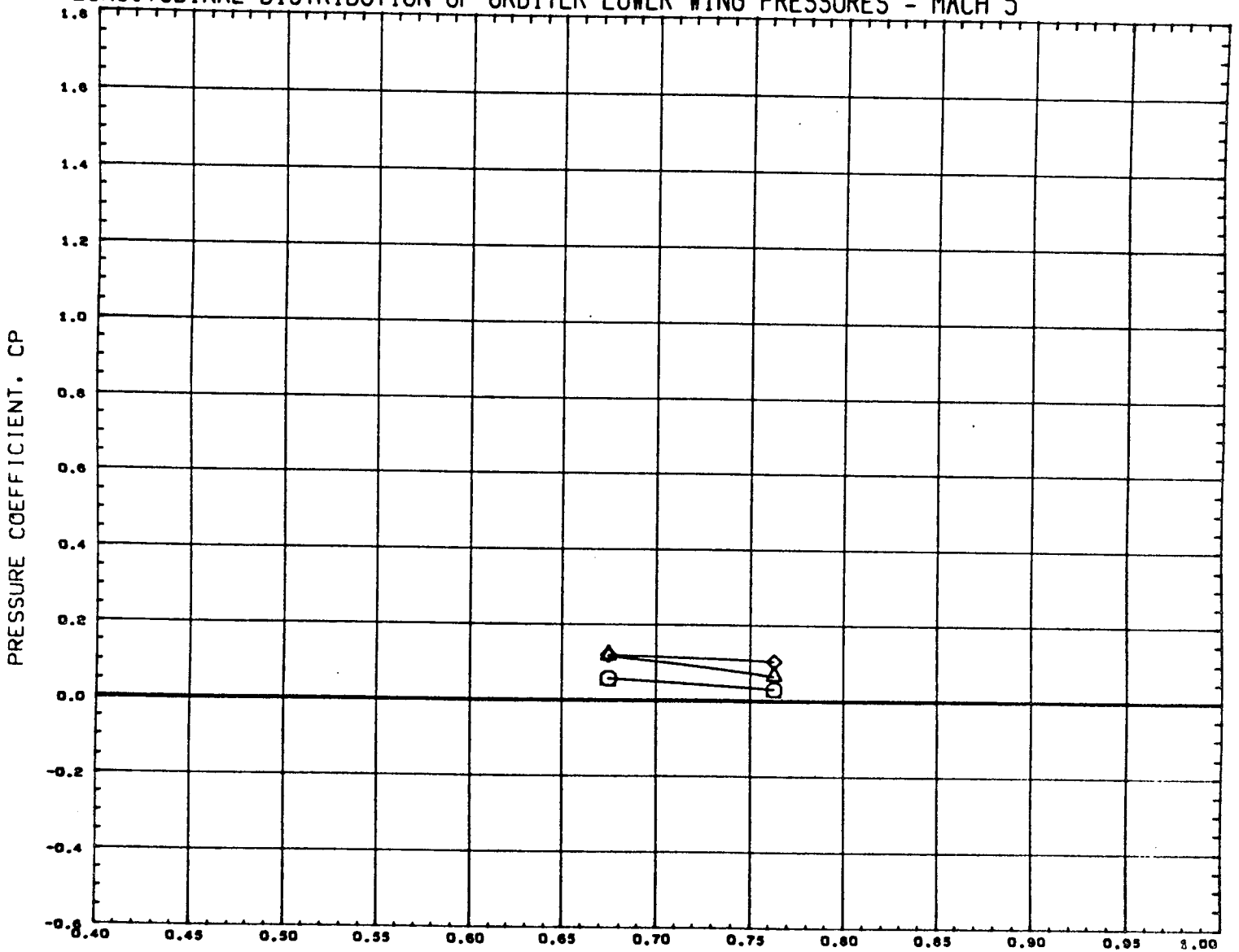
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

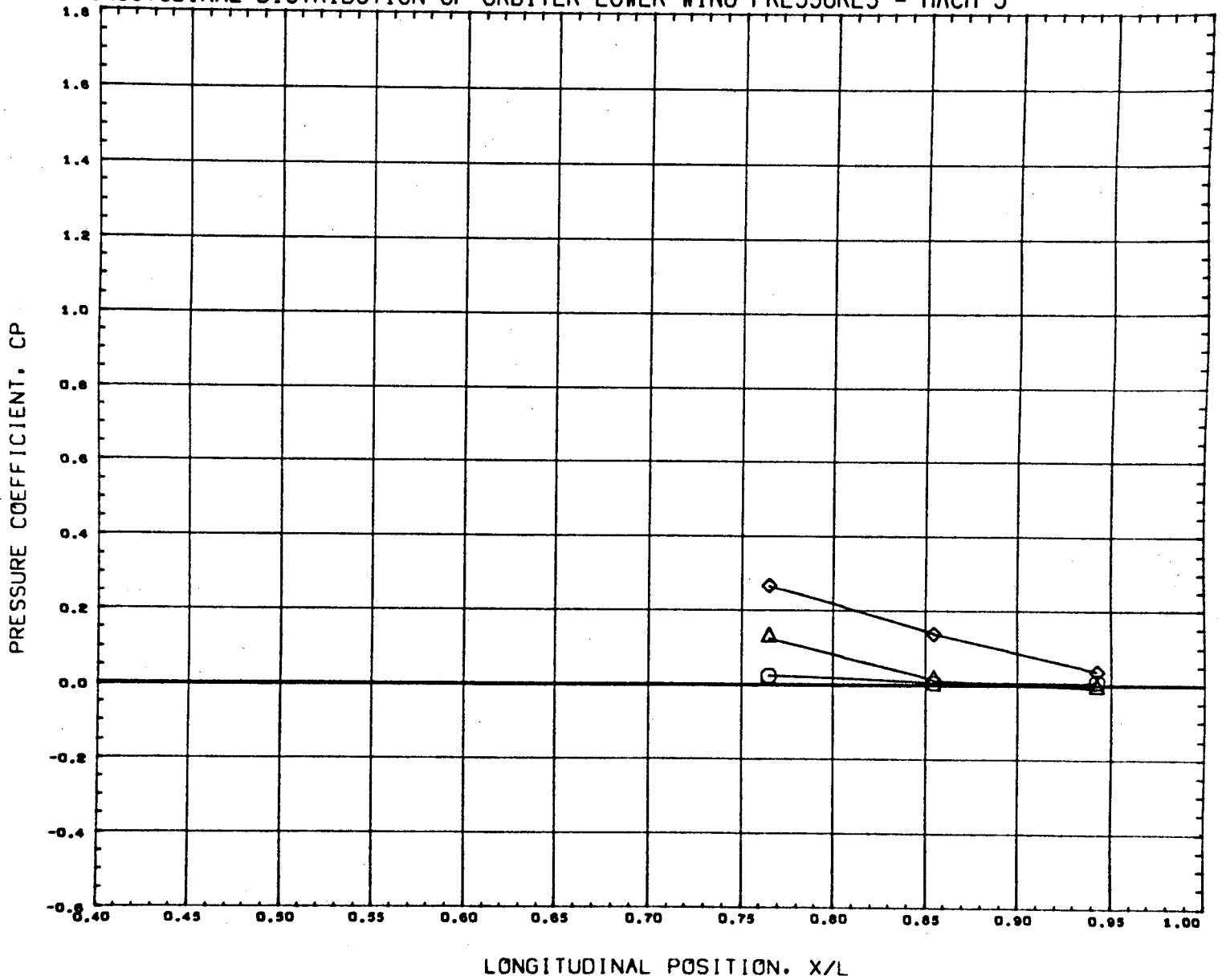


SYMBOL	DELTA X	Y/B	DELTA Z
△	0.041	0.399	0.114
□	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHA1	0.000	ORBPOW	30.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.566	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BSTPOW	100.000		

REFERENCE FILE

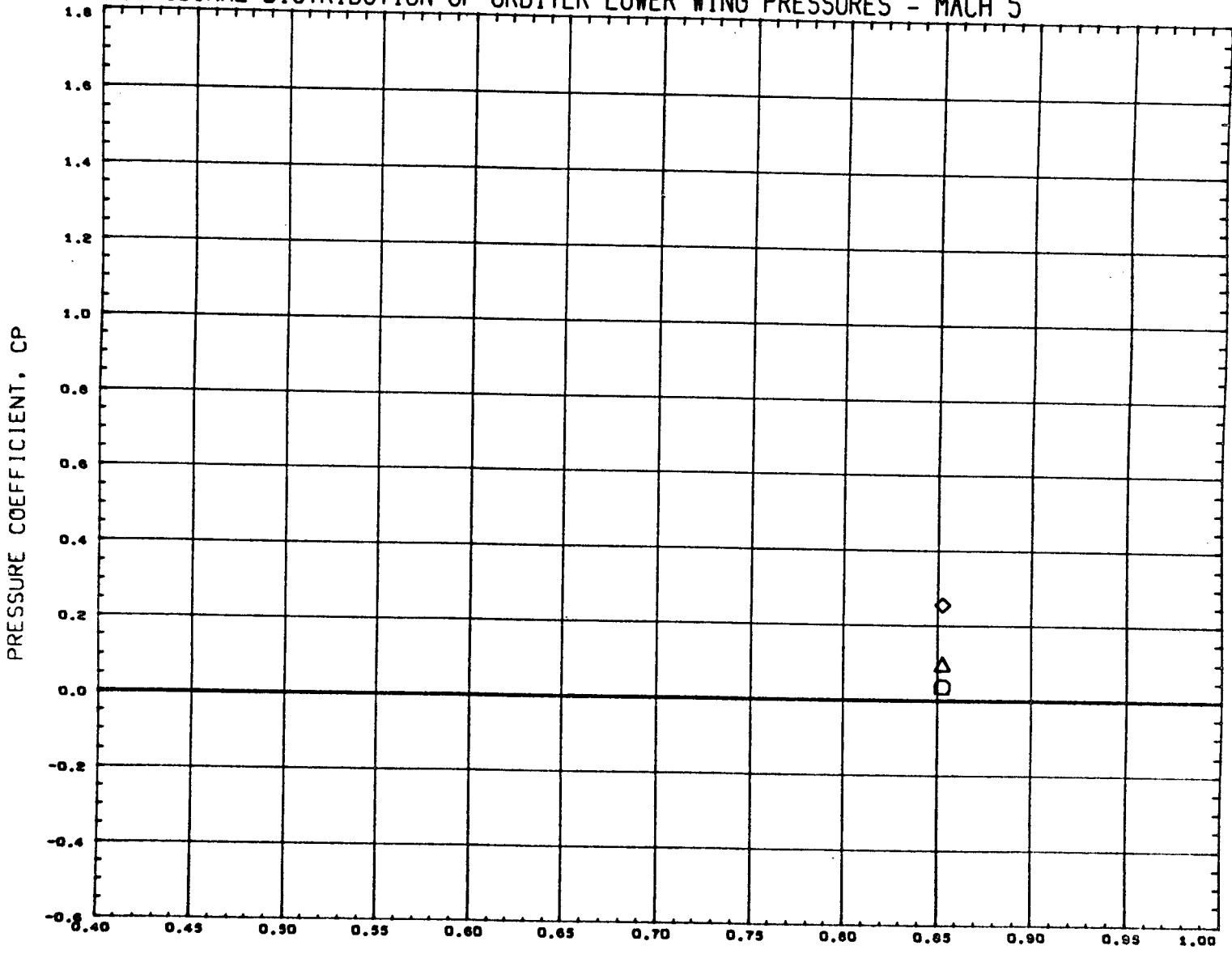
AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.738	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BSTPOW	100.000		

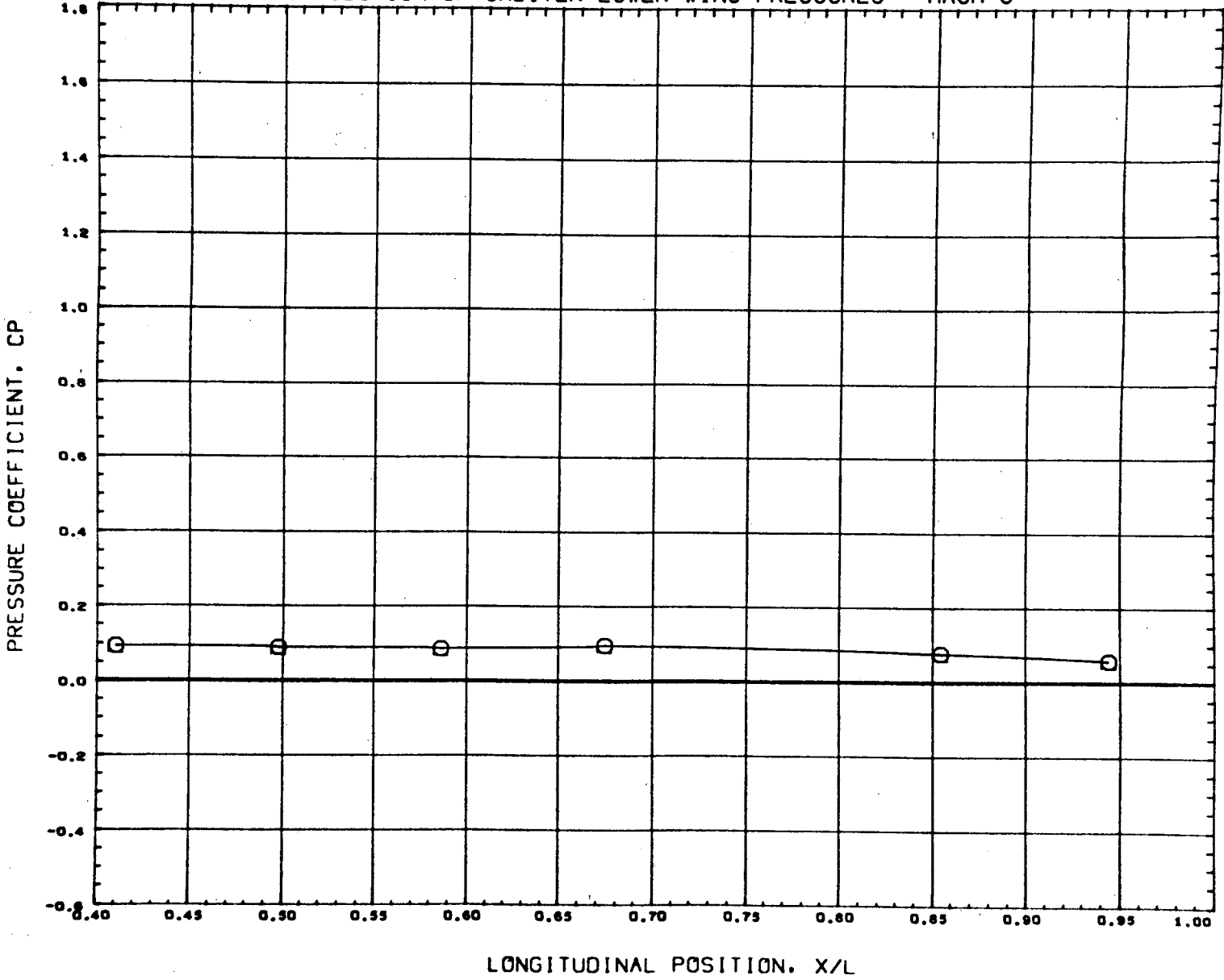
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.520 0.230 0.908

PARAMETRIC VALUES
 ALPHAB 10.042 MACH 4.940
 ALPHAI 0.000 ORBPOW 50.000
 BSTPOW 100.000

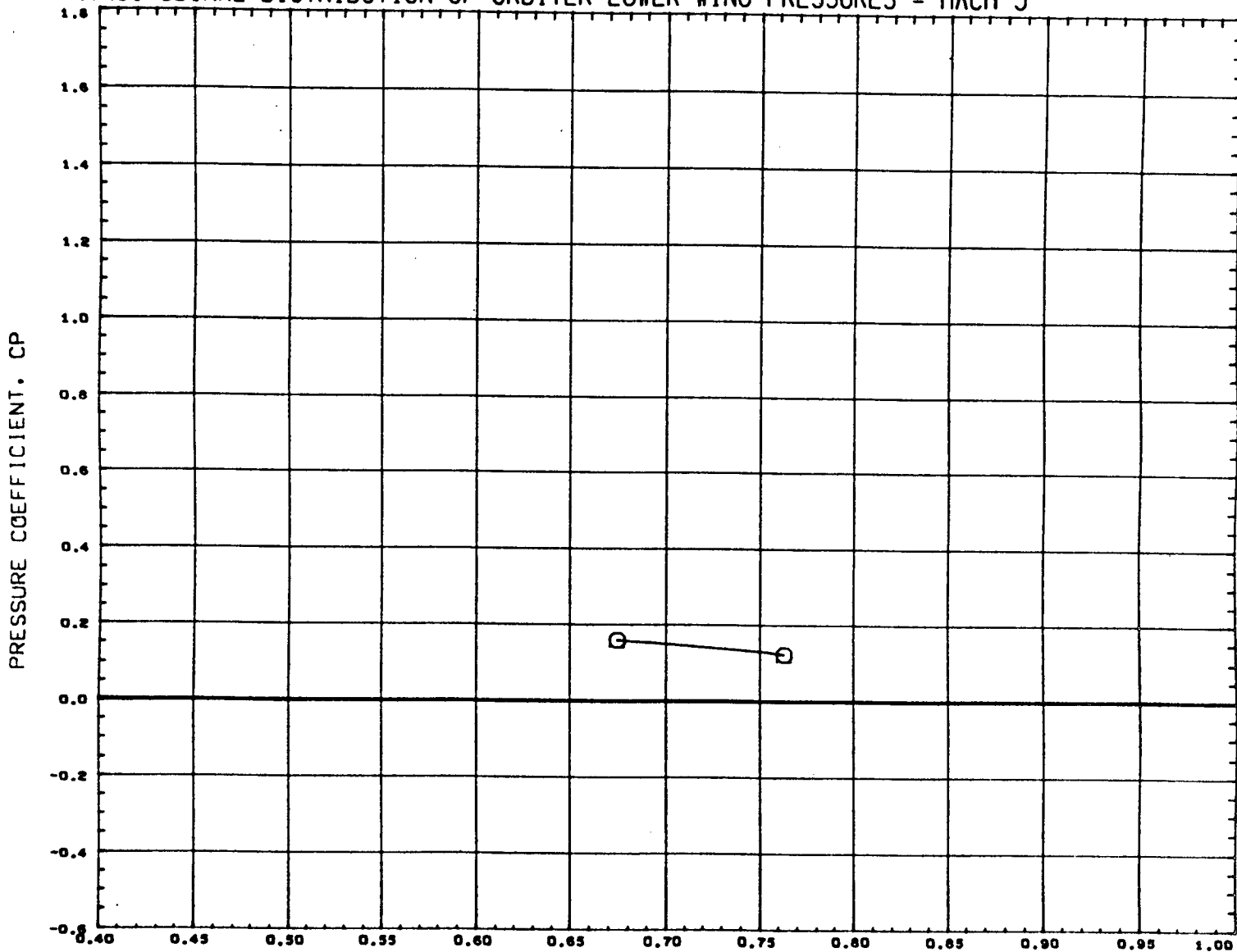
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.399	0.909

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHAT	0.000	ORBPOW	50.000
BSTPOW	100.000		

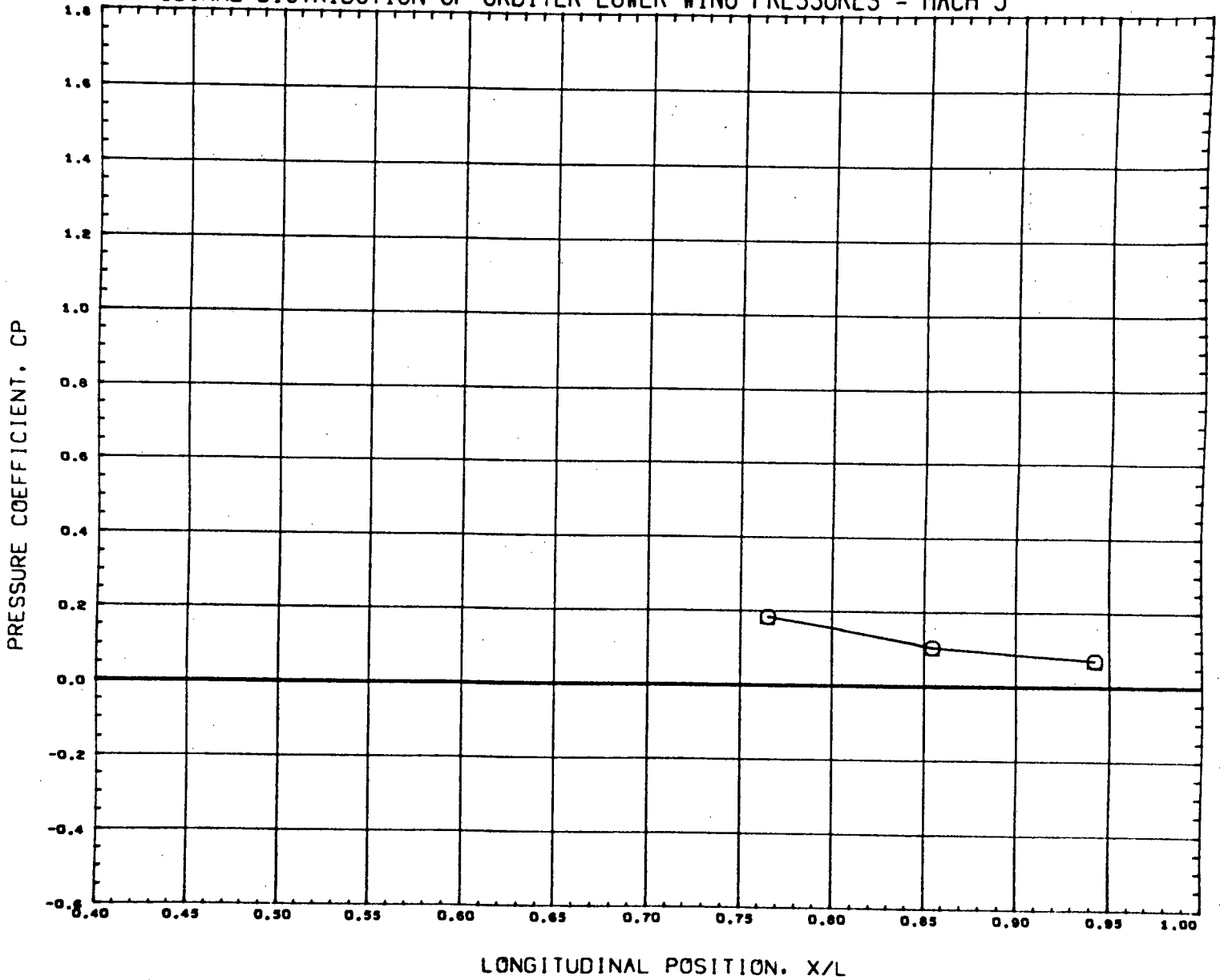
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL \circ DELTAX 0.520 Y/B 0.569 DELTAZ 0.909

PARAMETRIC VALUES
 ALPHAB 10.042 MACH 4.940
 ALPHAI 0.000 ORBPOW 50.000
 BSTPOW 100.000

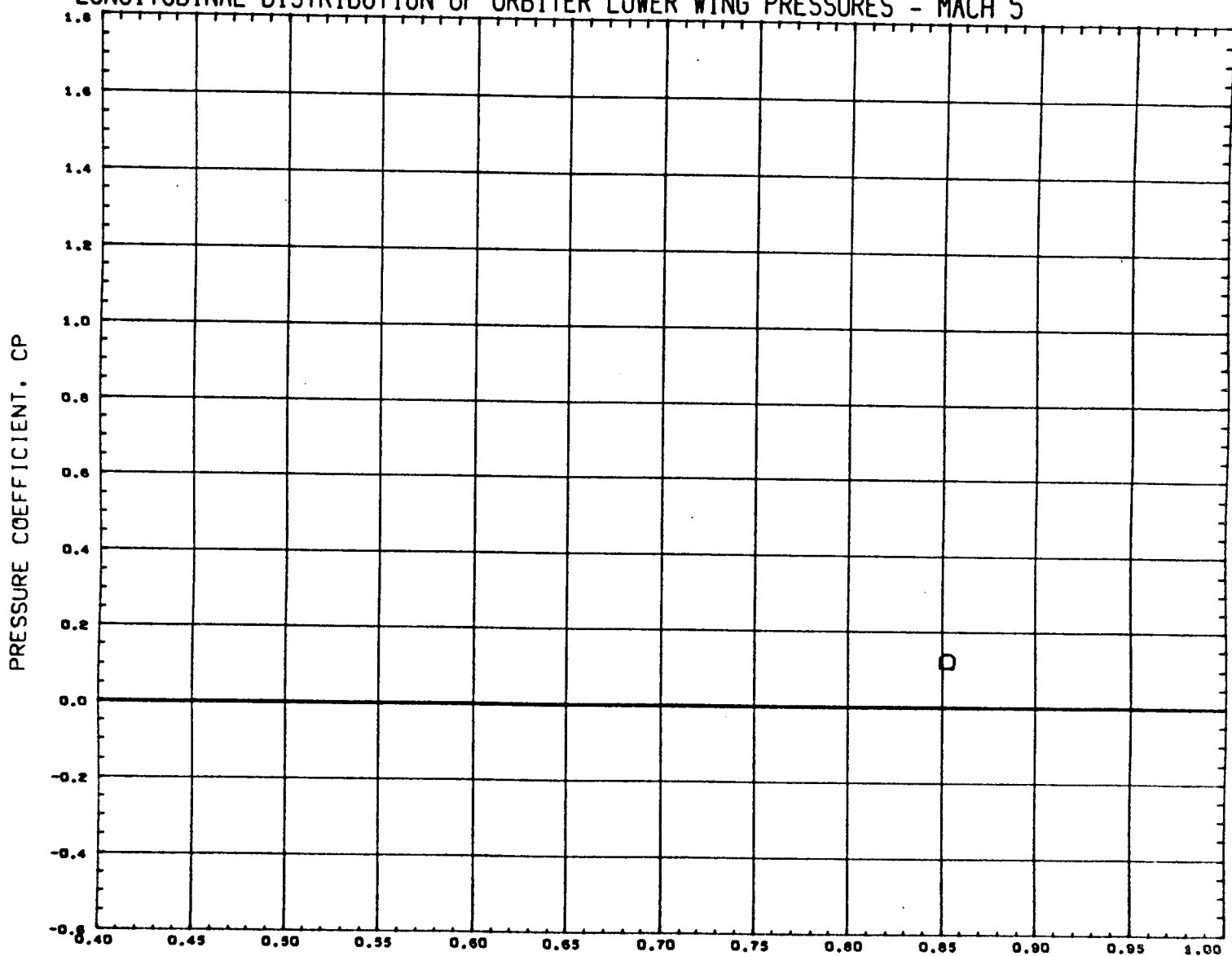
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.738	0.908

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHA I	0.000	ORBPOW	50.000
BSTPOW	100.000		

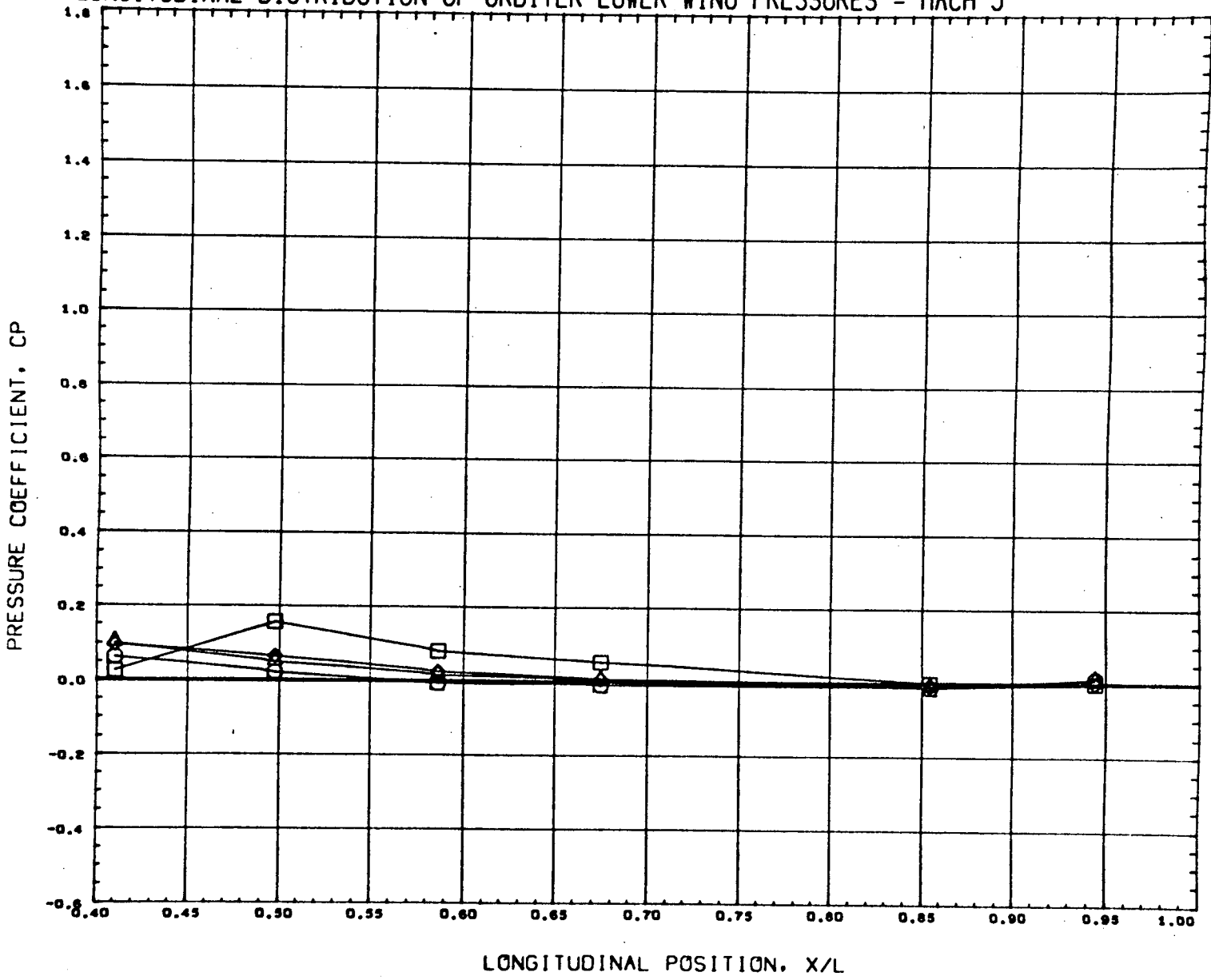
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8525•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.193		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

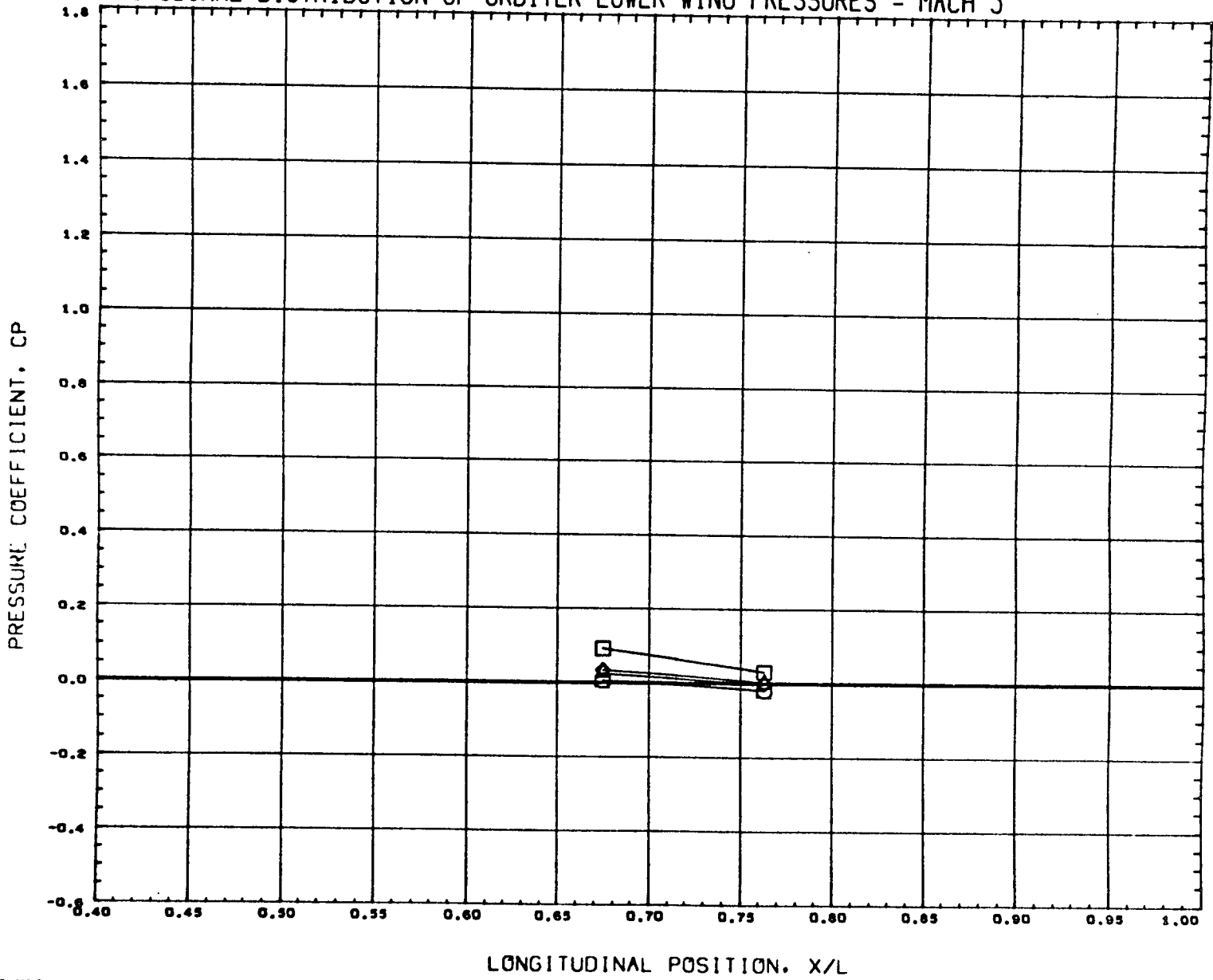
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

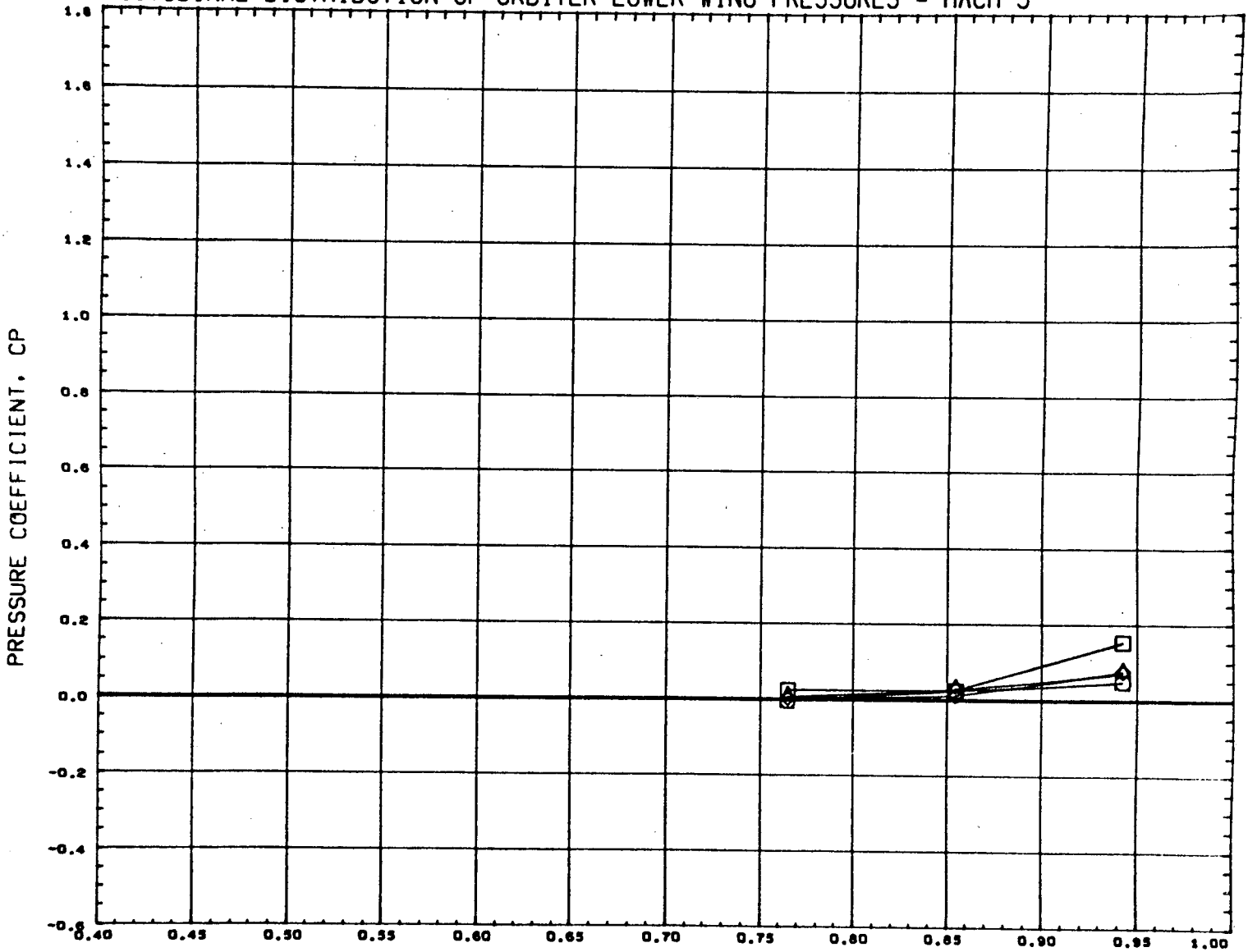


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.568	0.114
△	0.103		
◇	0.183		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

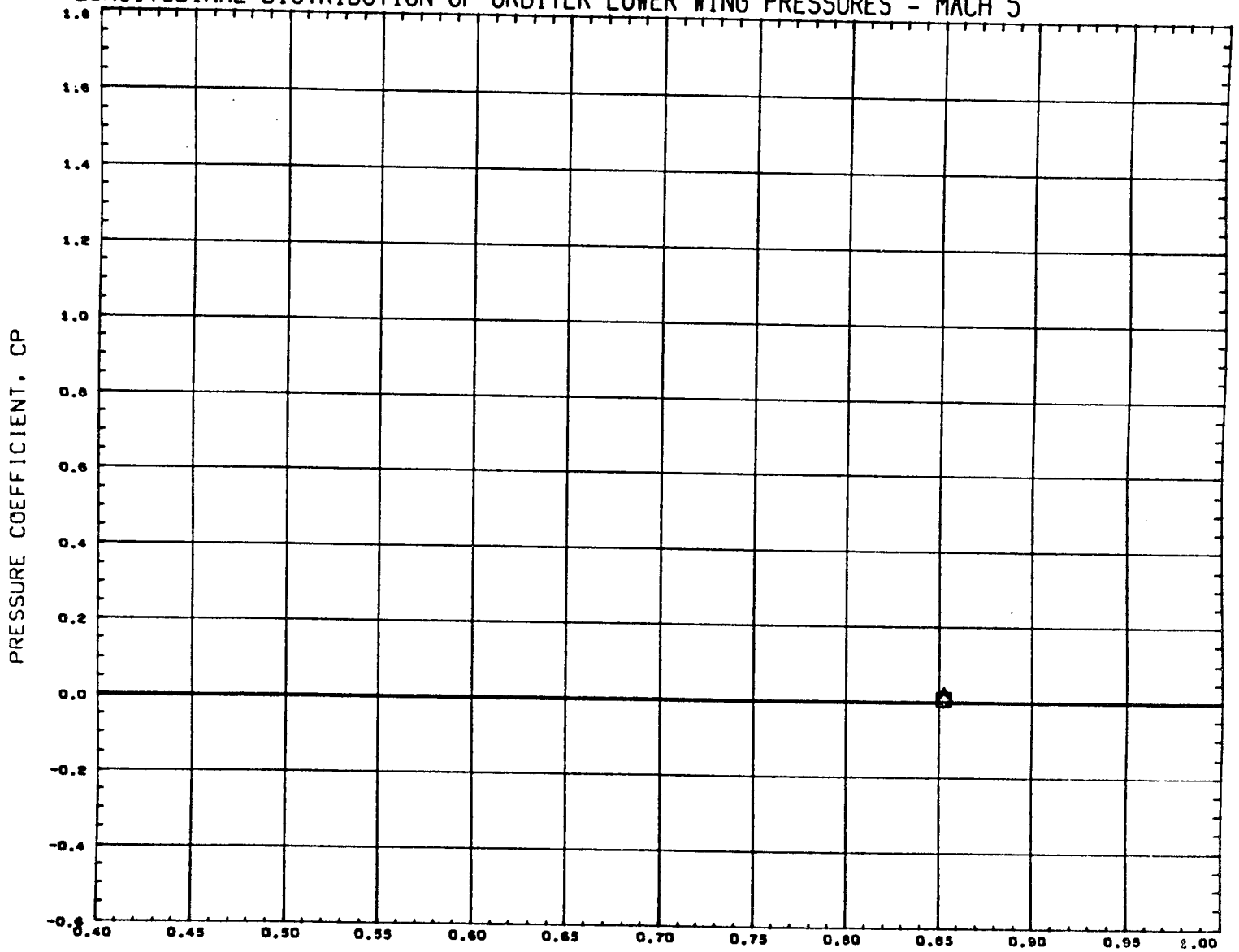
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.739	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

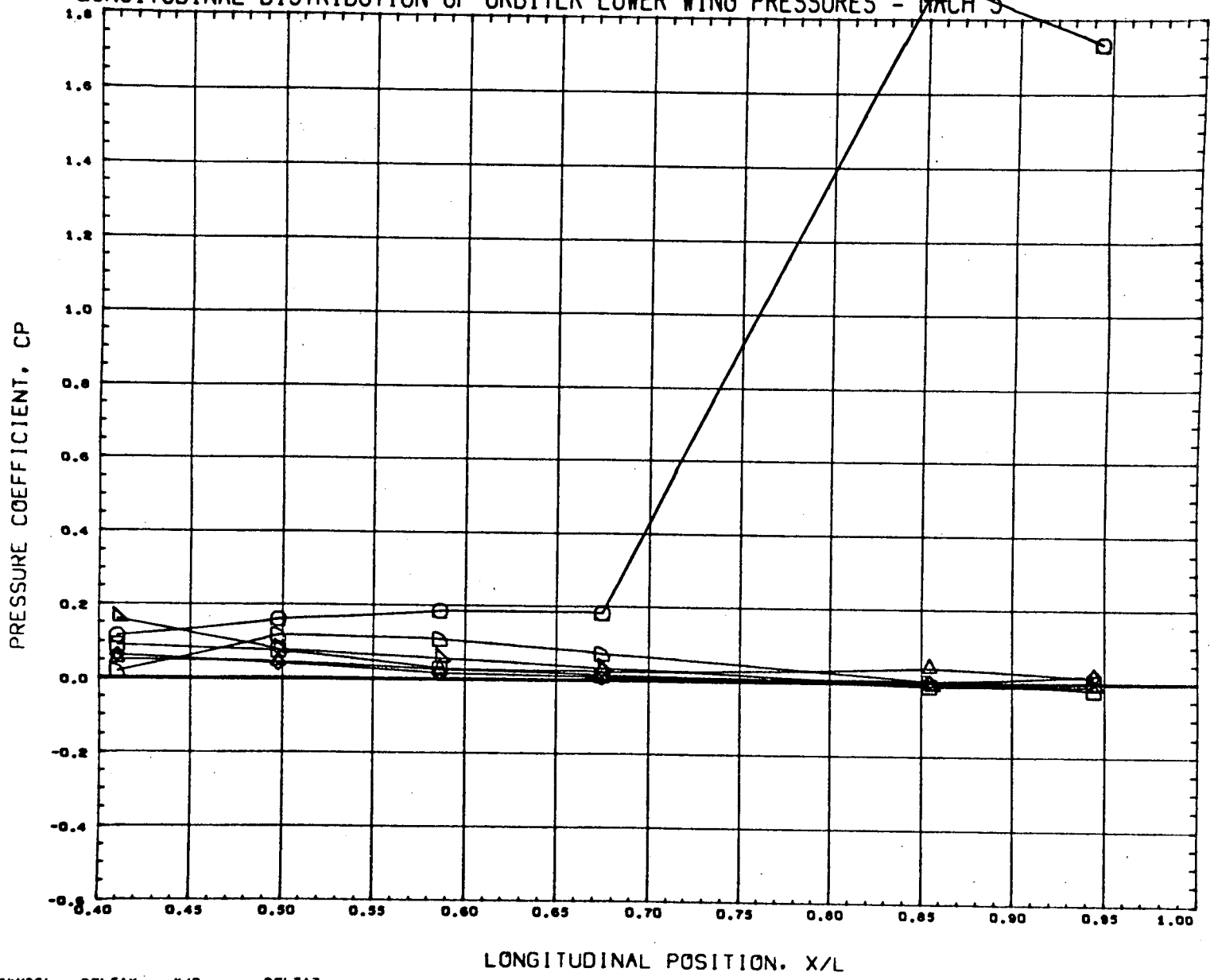
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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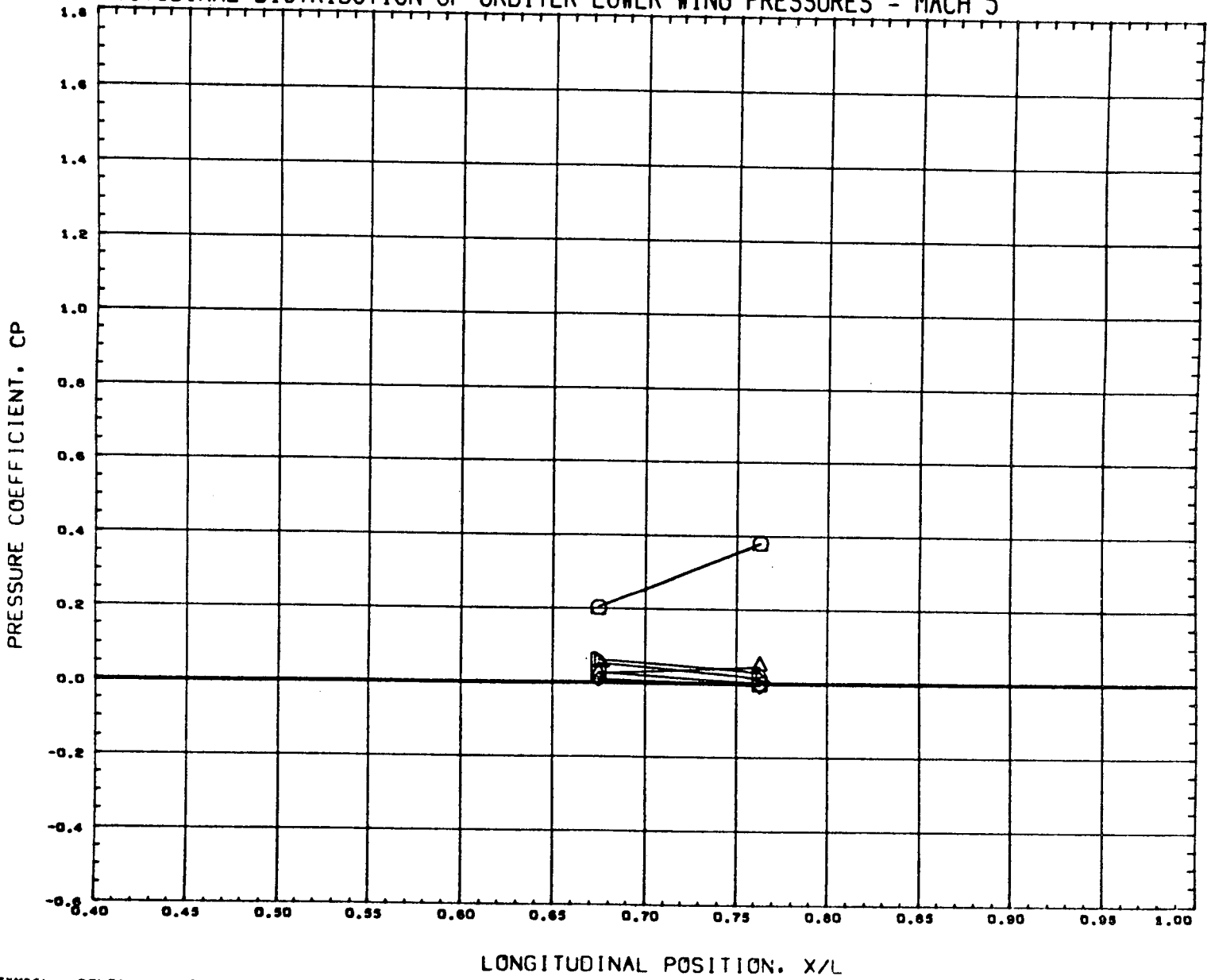
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.120
△	0.143		
◇	0.020		
□	0.103		
◇	0.227		
□	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

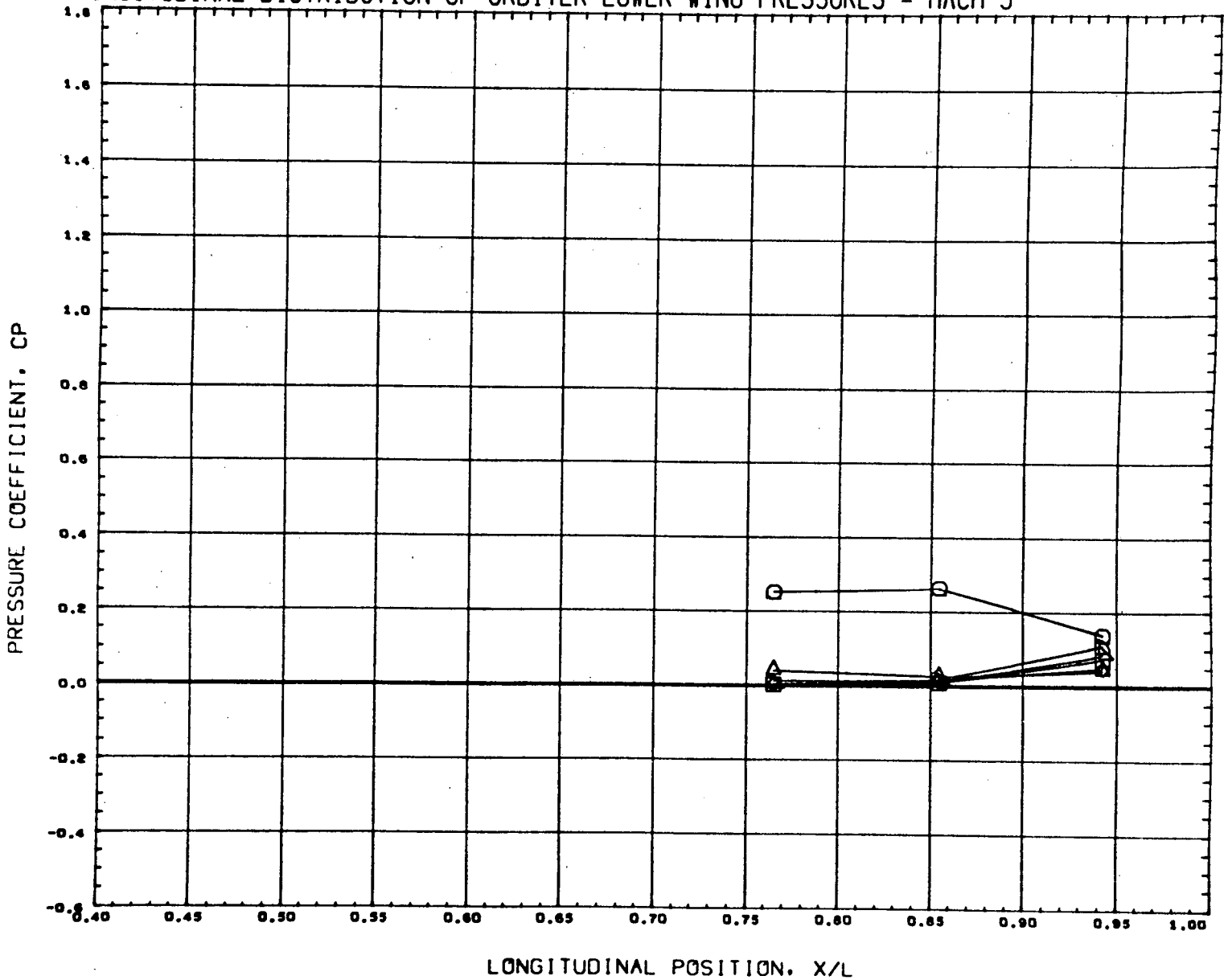
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.120
□	0.143		
△	0.020		
◇	0.103		
◇	0.227		
◇	0.350		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	9.518	MACH	4.940
ALPHAT	0.000	GRPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

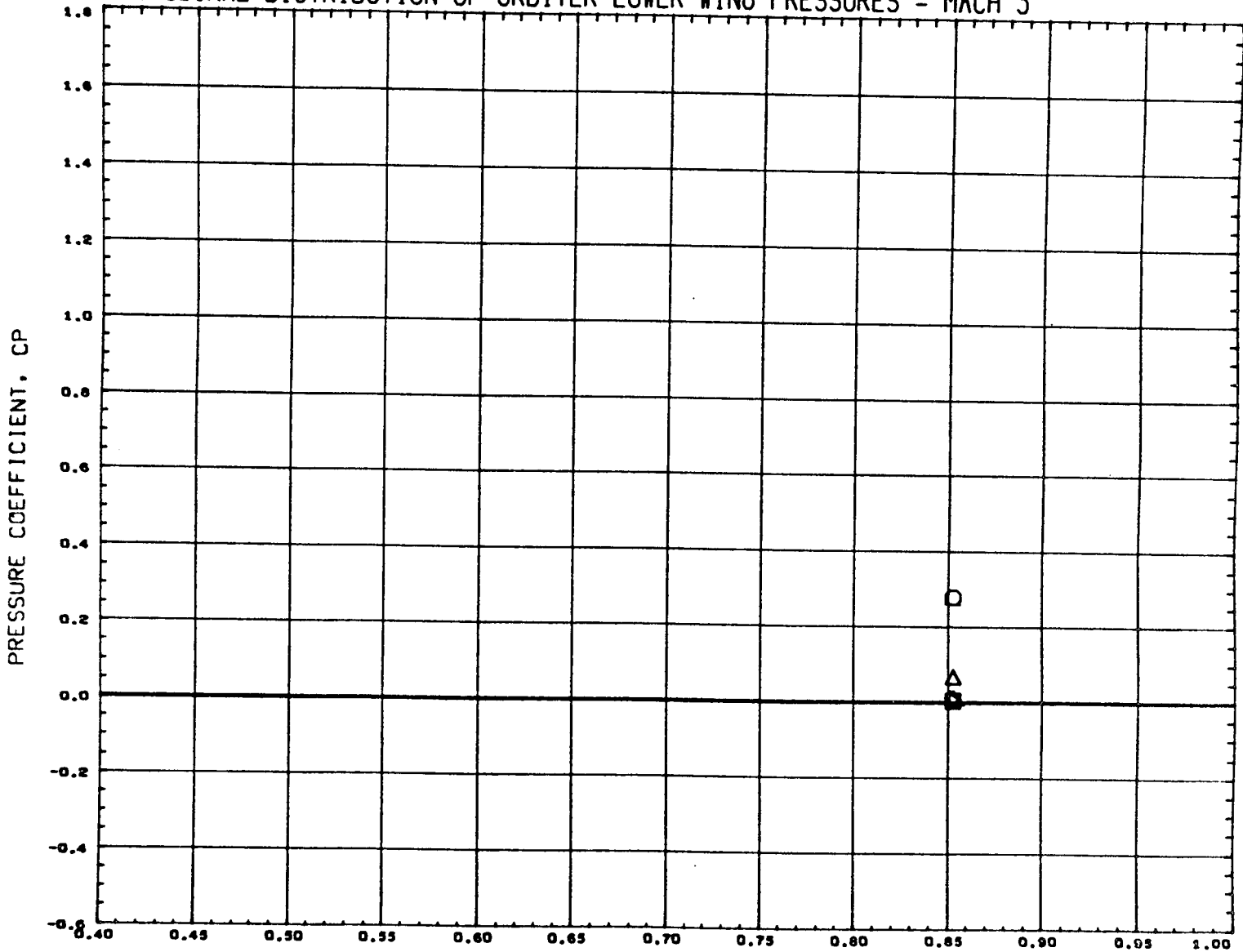


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.369	0.120
△	0.143		
□	0.020		
◇	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	9.916	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



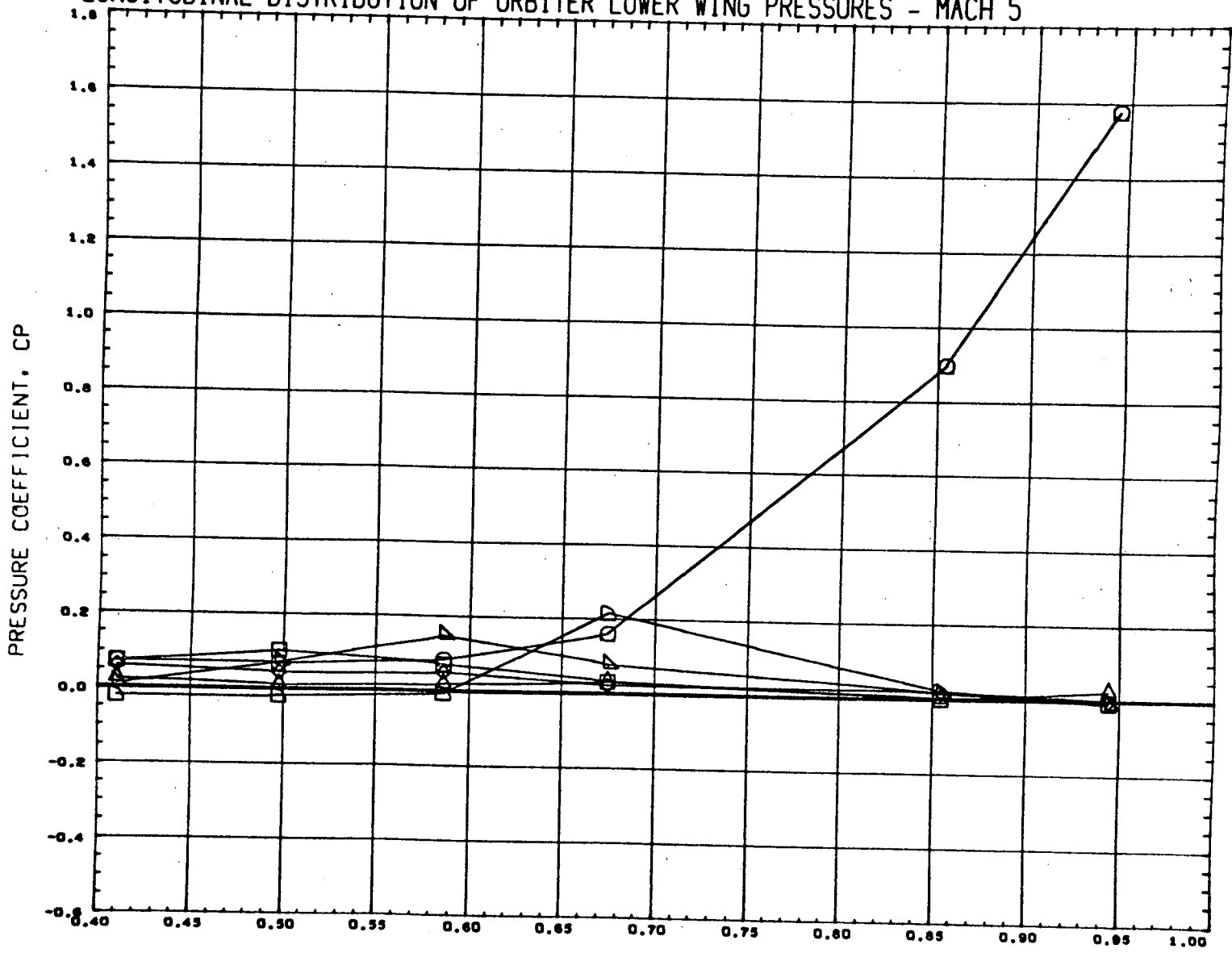
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.739	0.120
△	0.143		
○	0.020		
	0.103		
	0.227		
	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.151
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◻	0.350		

REFERENCE FILE

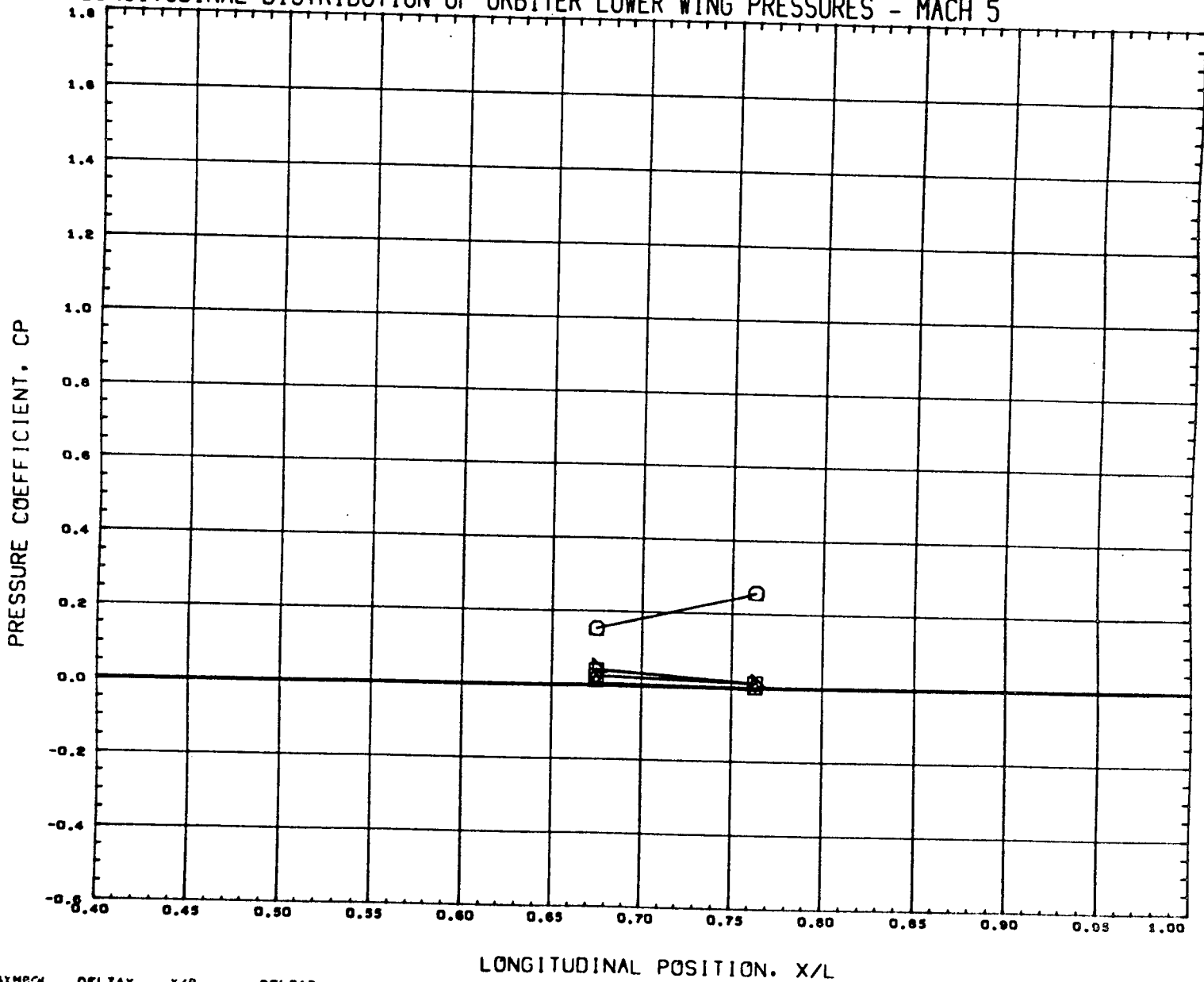
PARAMETRIC VALUES			
ALPHAB	9.918	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

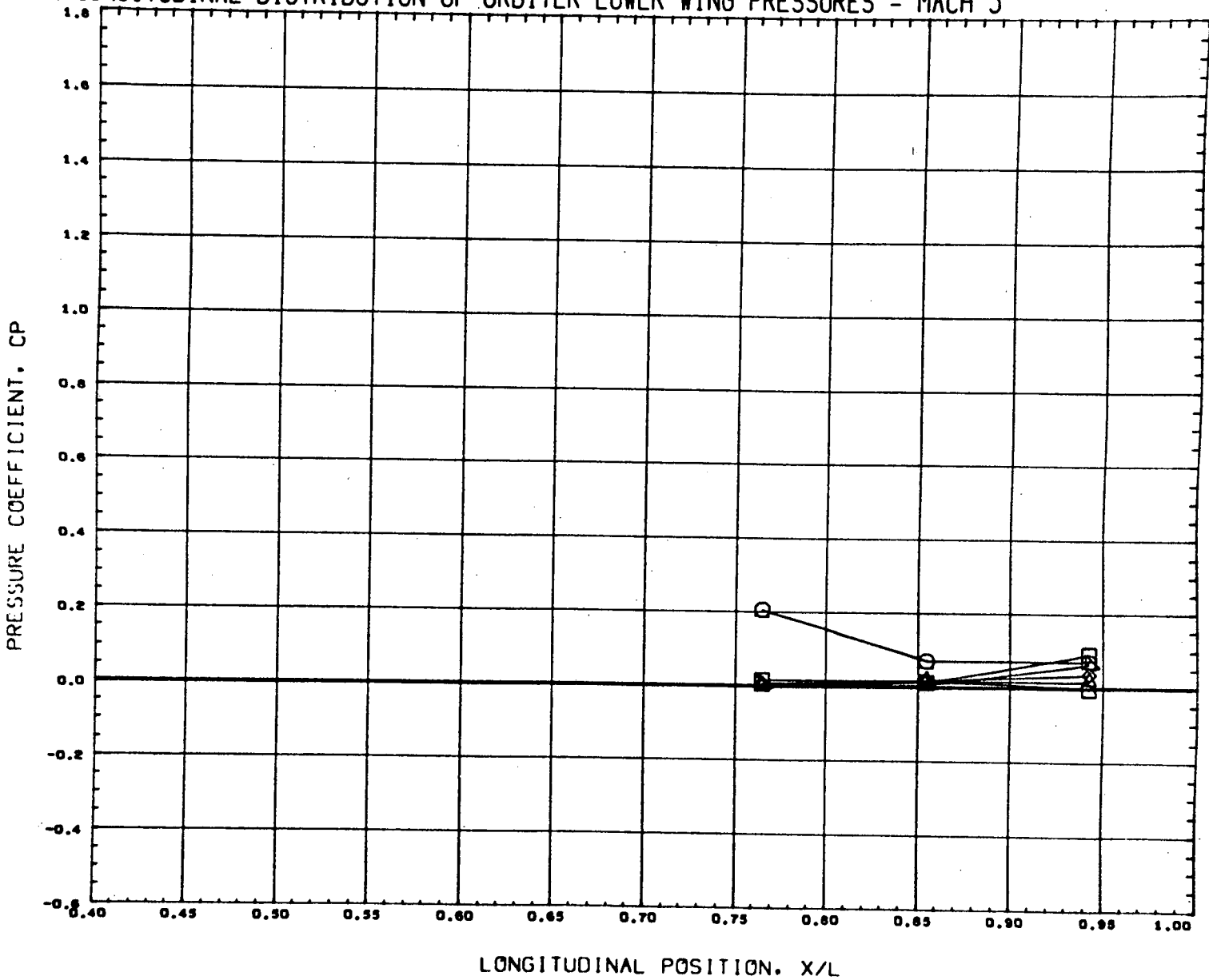


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.151
□	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	9.918	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	90.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

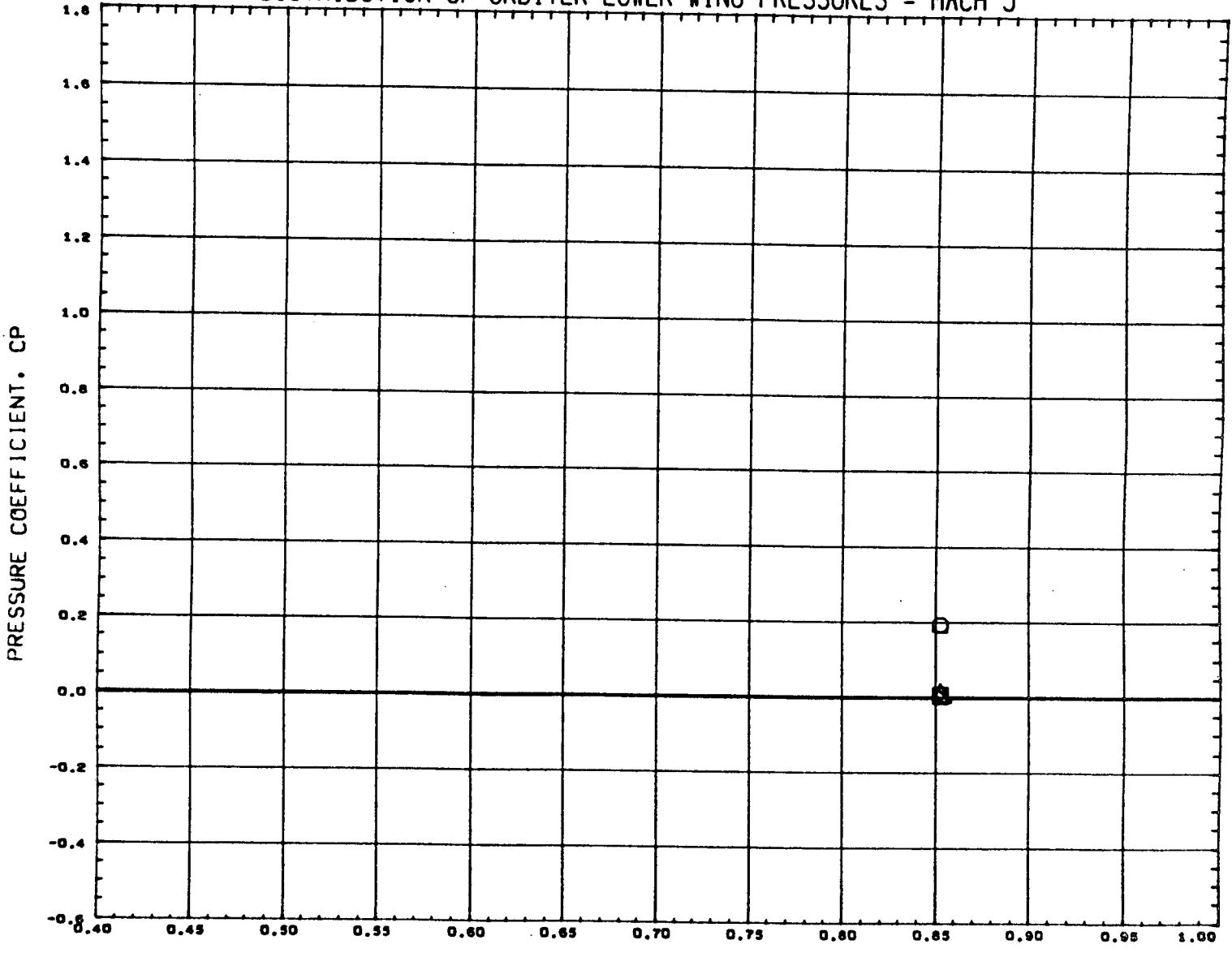


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.569	0.151
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	9.916	MACH 4.940
ALPHA1	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

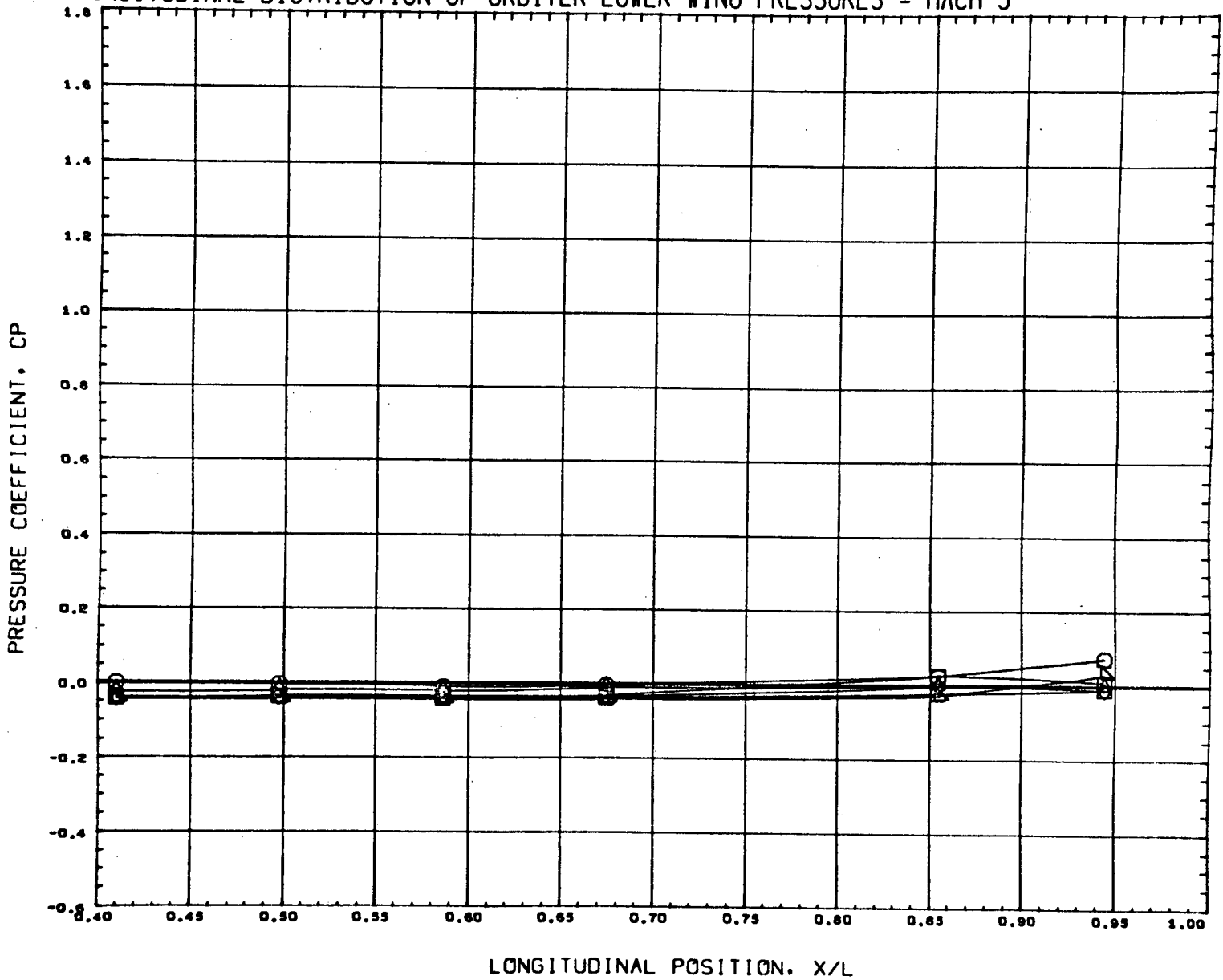


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.736	0.151
△	0.143		
◇	0.020		
□	0.103		
■	0.227		
◻	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	9.916	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

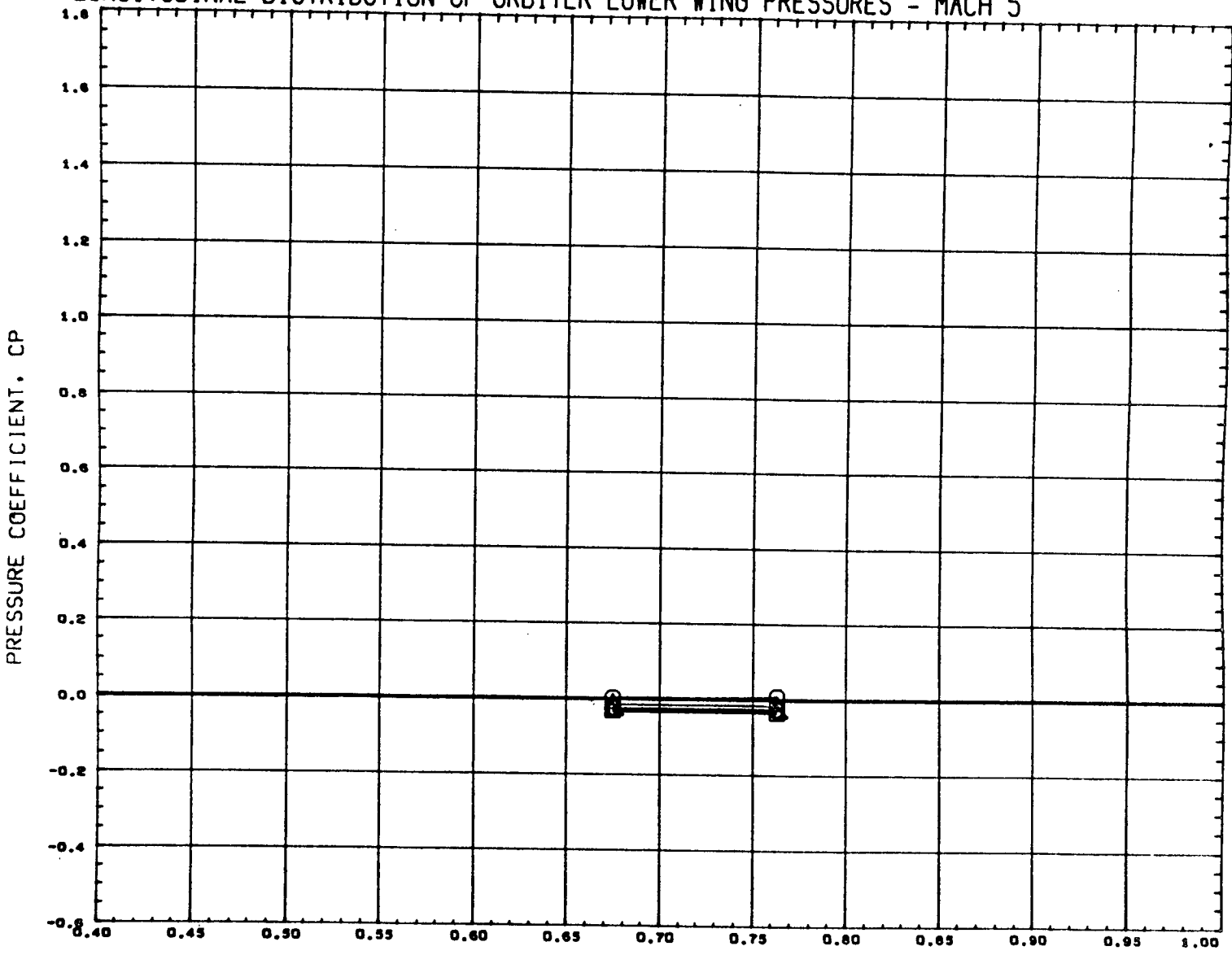


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.228
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	9.918	MACH 4.940
ALPHA1	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



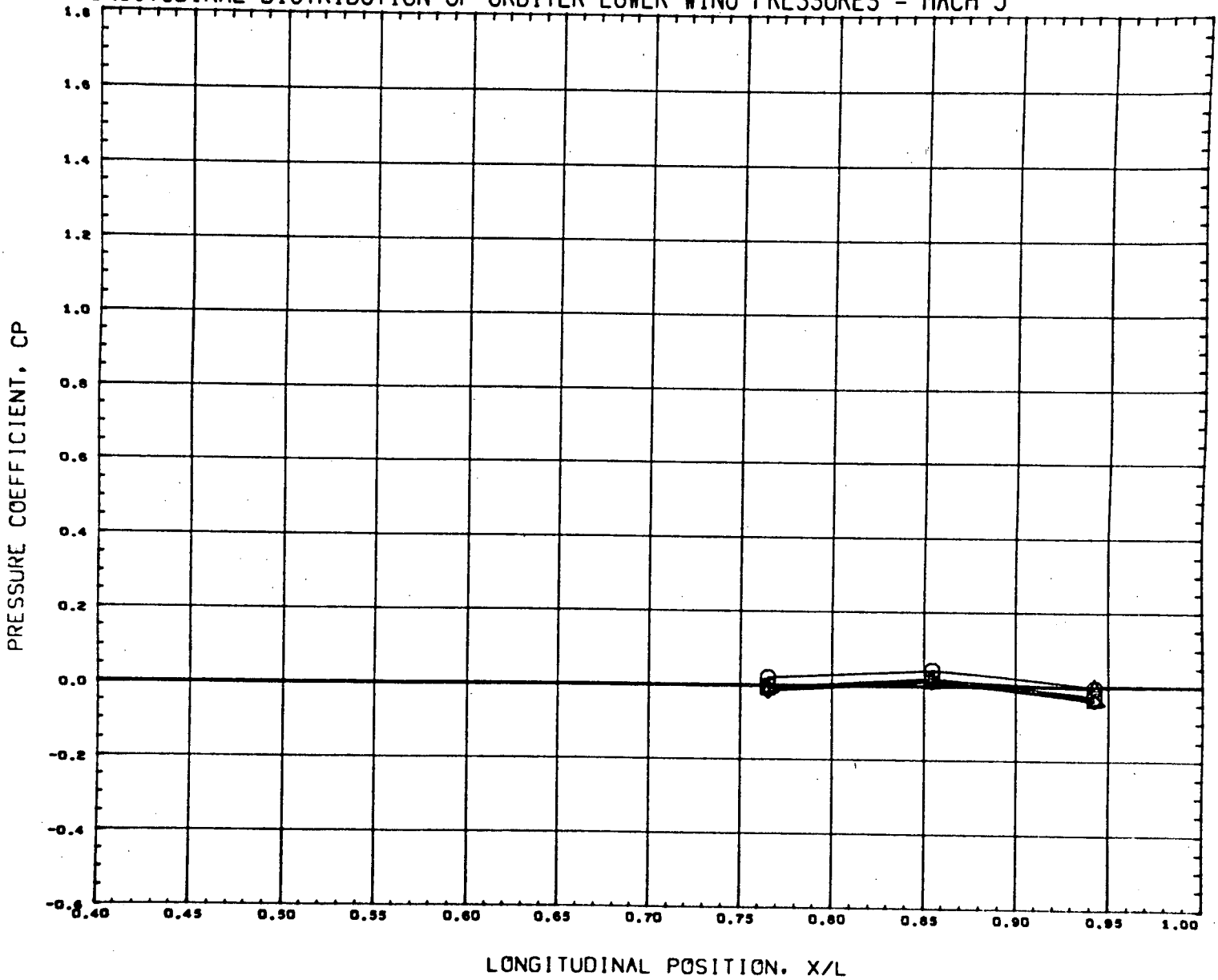
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.399	0.228
◇	0.143		
△	0.020		
○	0.103		
●	0.227		
○	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	9.918	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

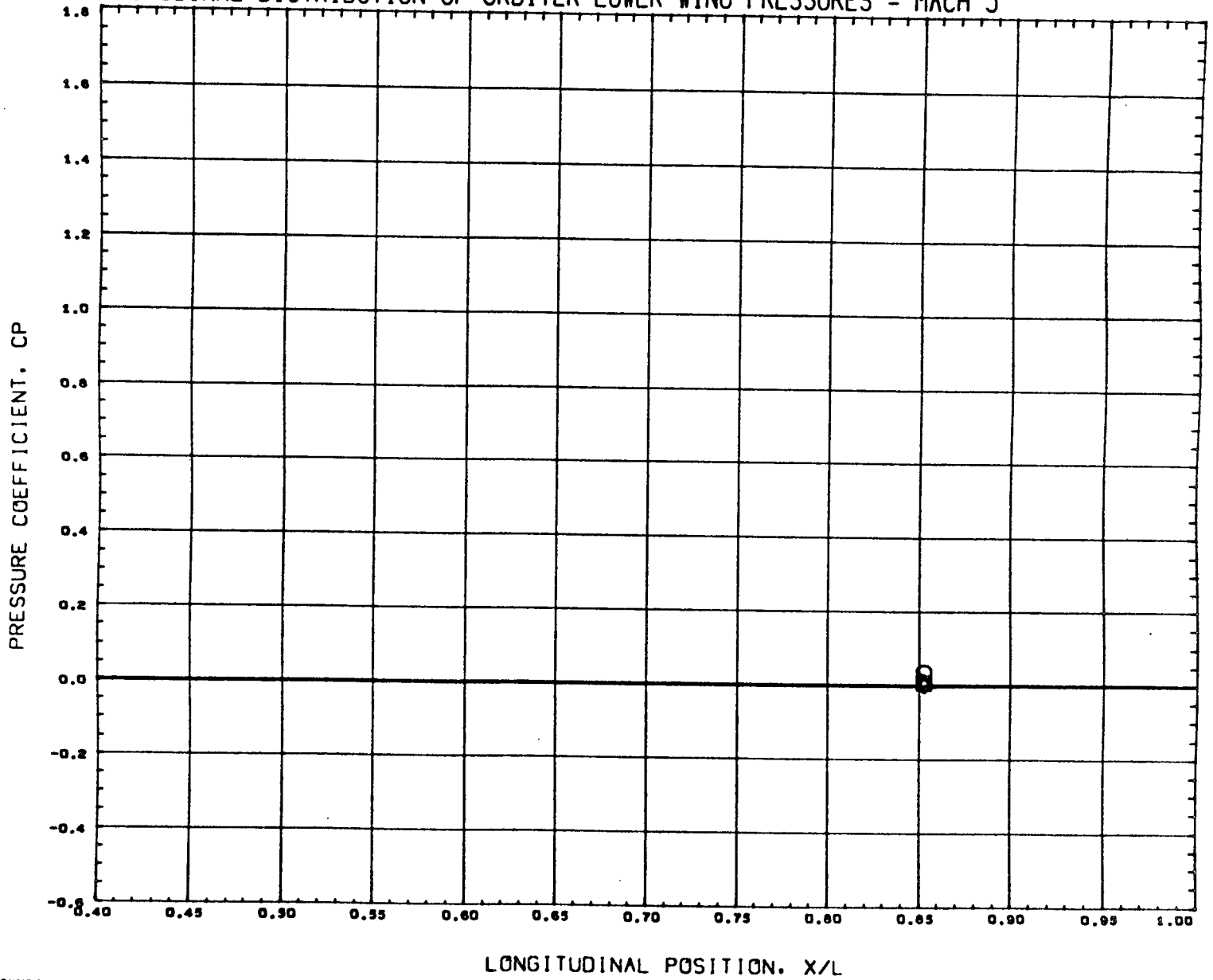
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.390	0.568	0.229
△	- 0.143		
◇	- 0.020		
□	0.103		
▽	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

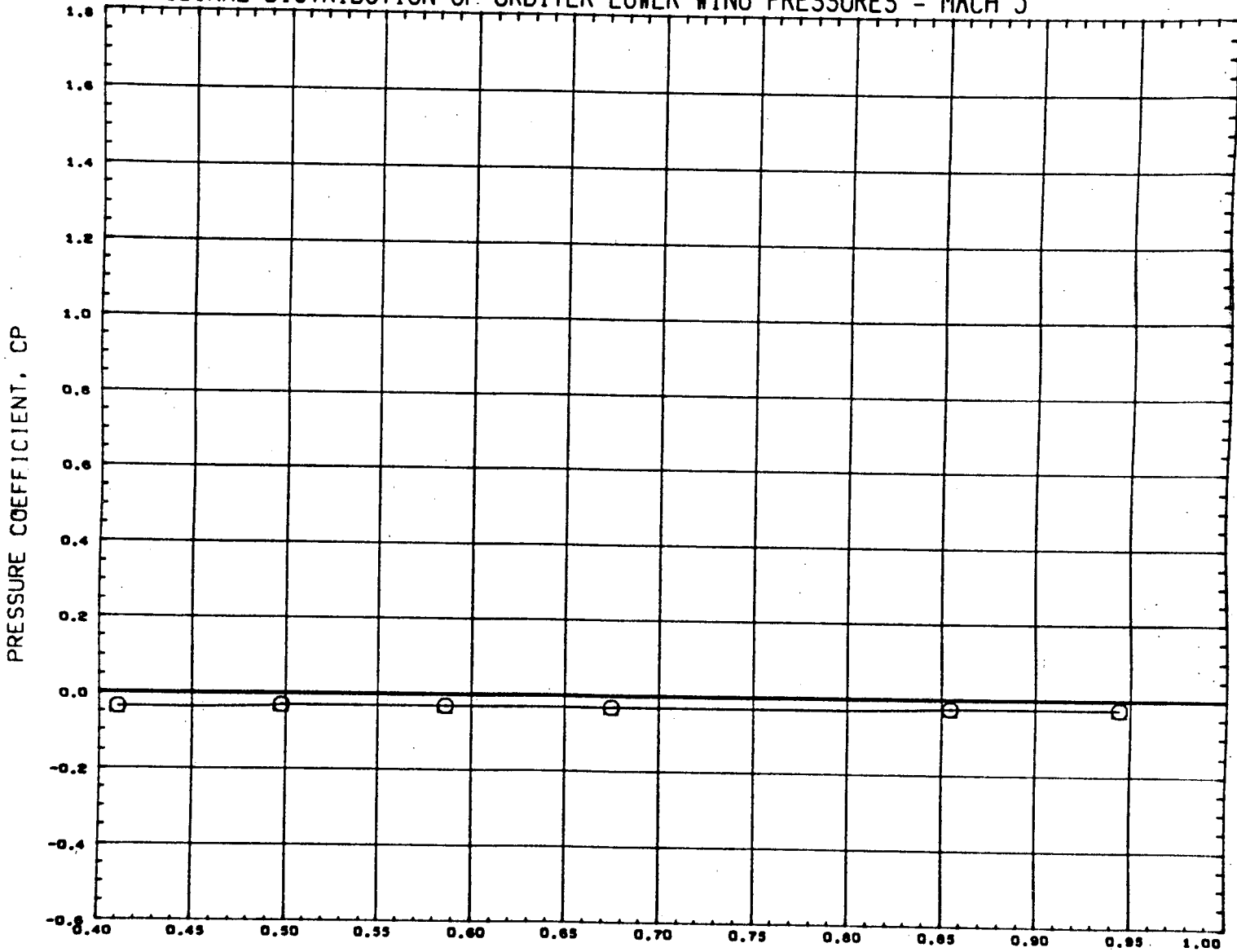


SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.390	0.739	0.226
△	- 0.143		
◇	- 0.020		
□	0.103		
▽	0.227		
◇	0.330		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	90.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.900

PARAMETRIC VALUES			
ALPHAB	- 9.910	MACH	4.940
ALPHAI	0.000	ORSPOW	100.000
BSTPOW	50.000		

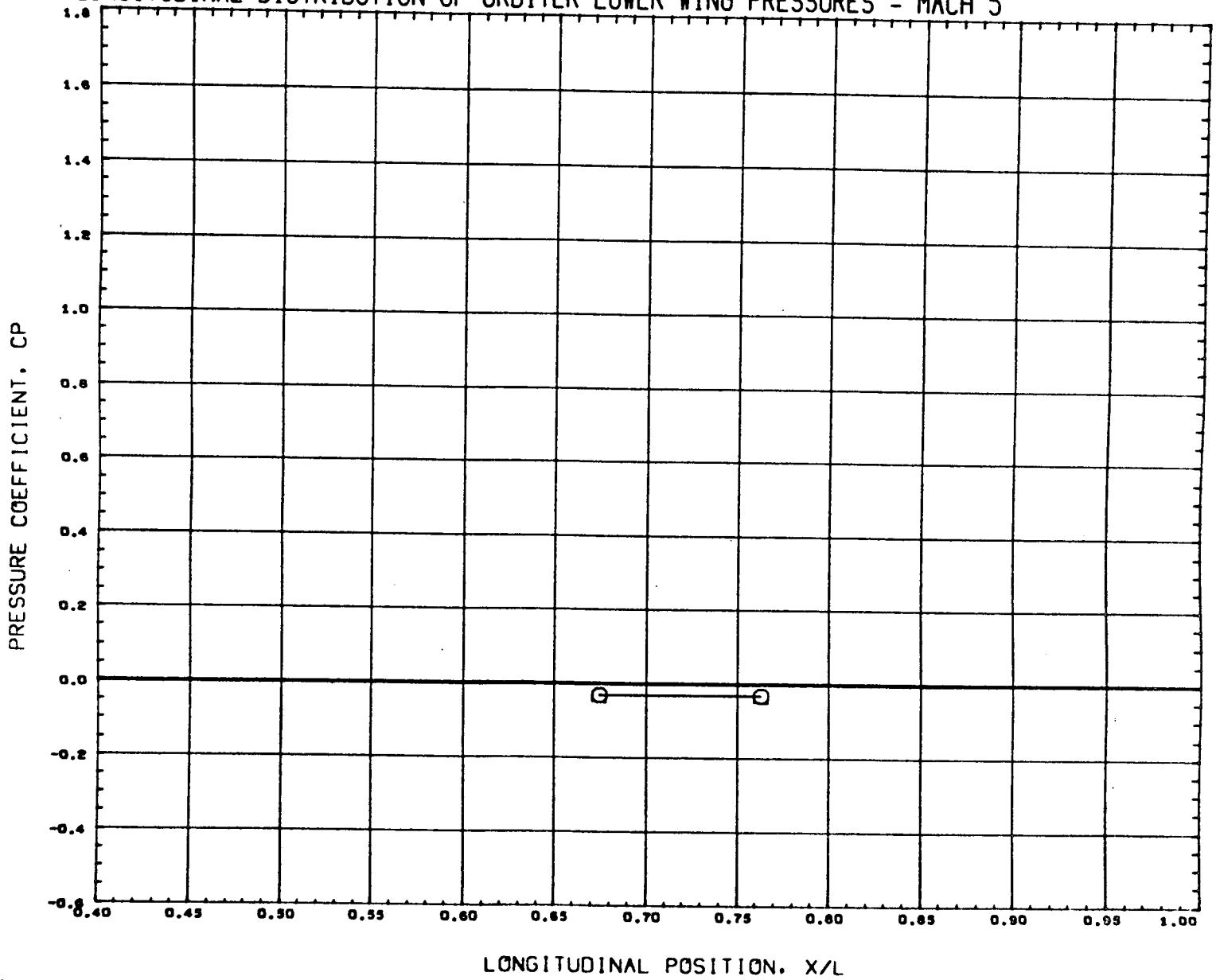
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.906

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

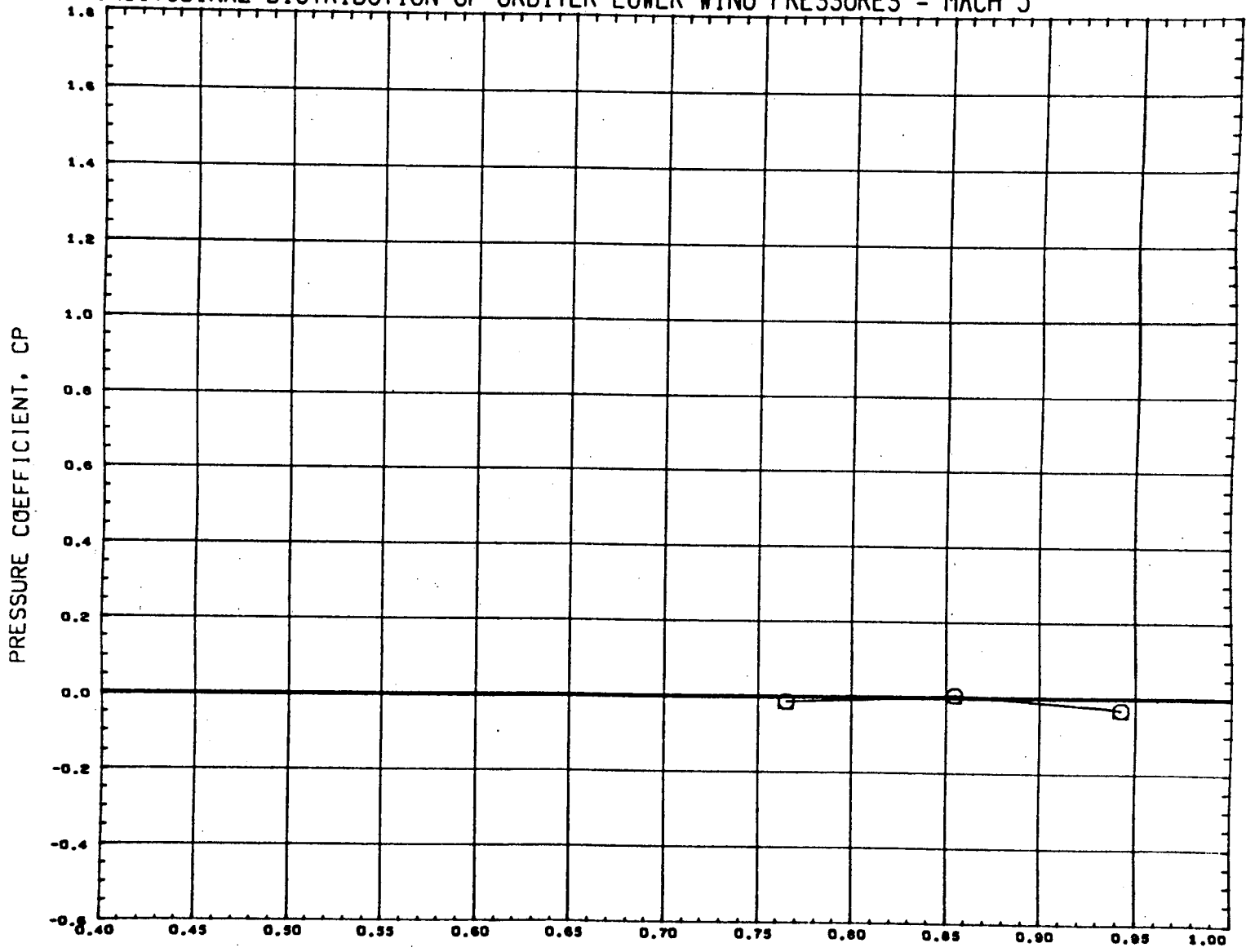
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.366	0.909

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

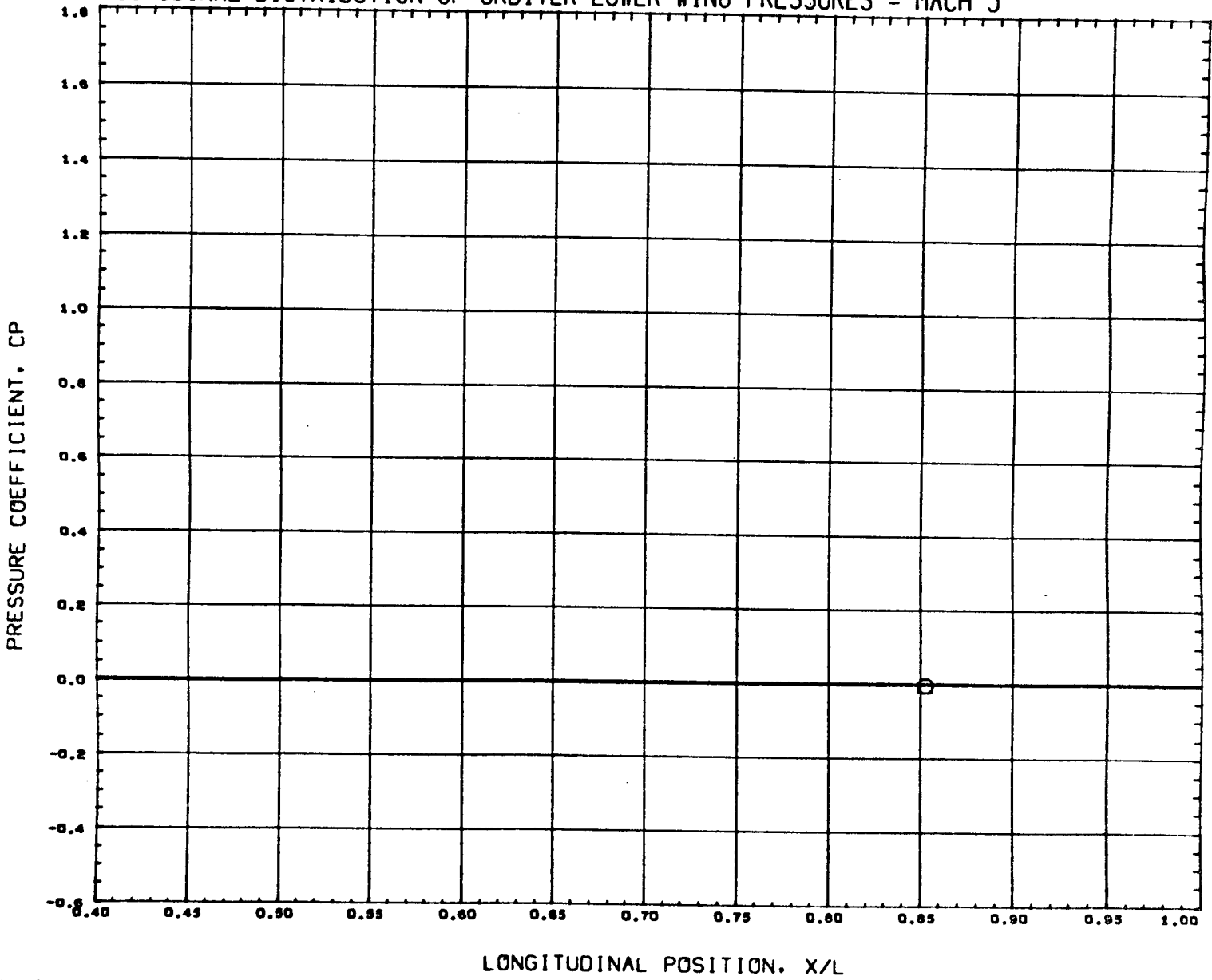
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.738	0.908

PARAMETRIC VALUES			
ALPHAB	- 9.918	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

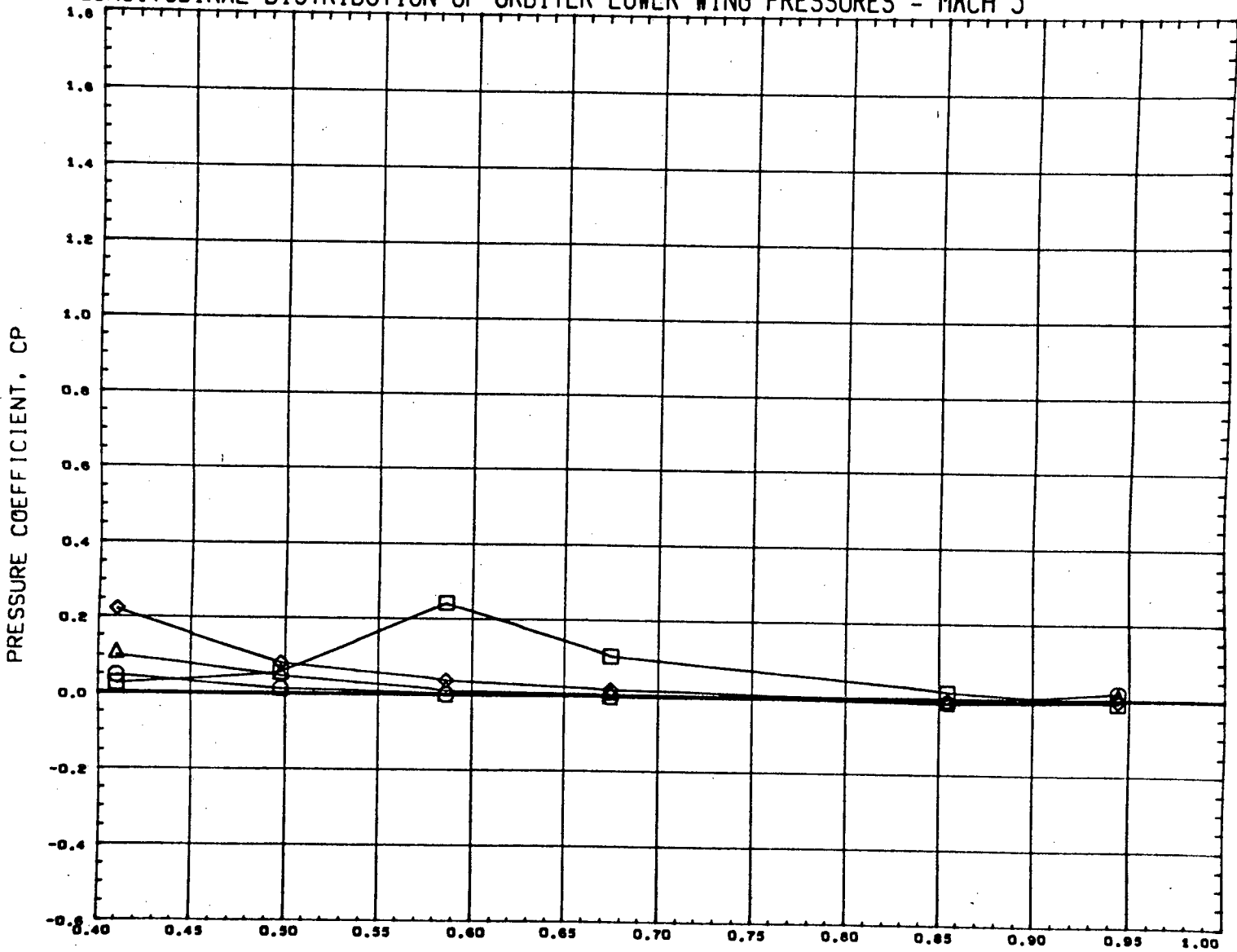
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	5.090	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	30.000		

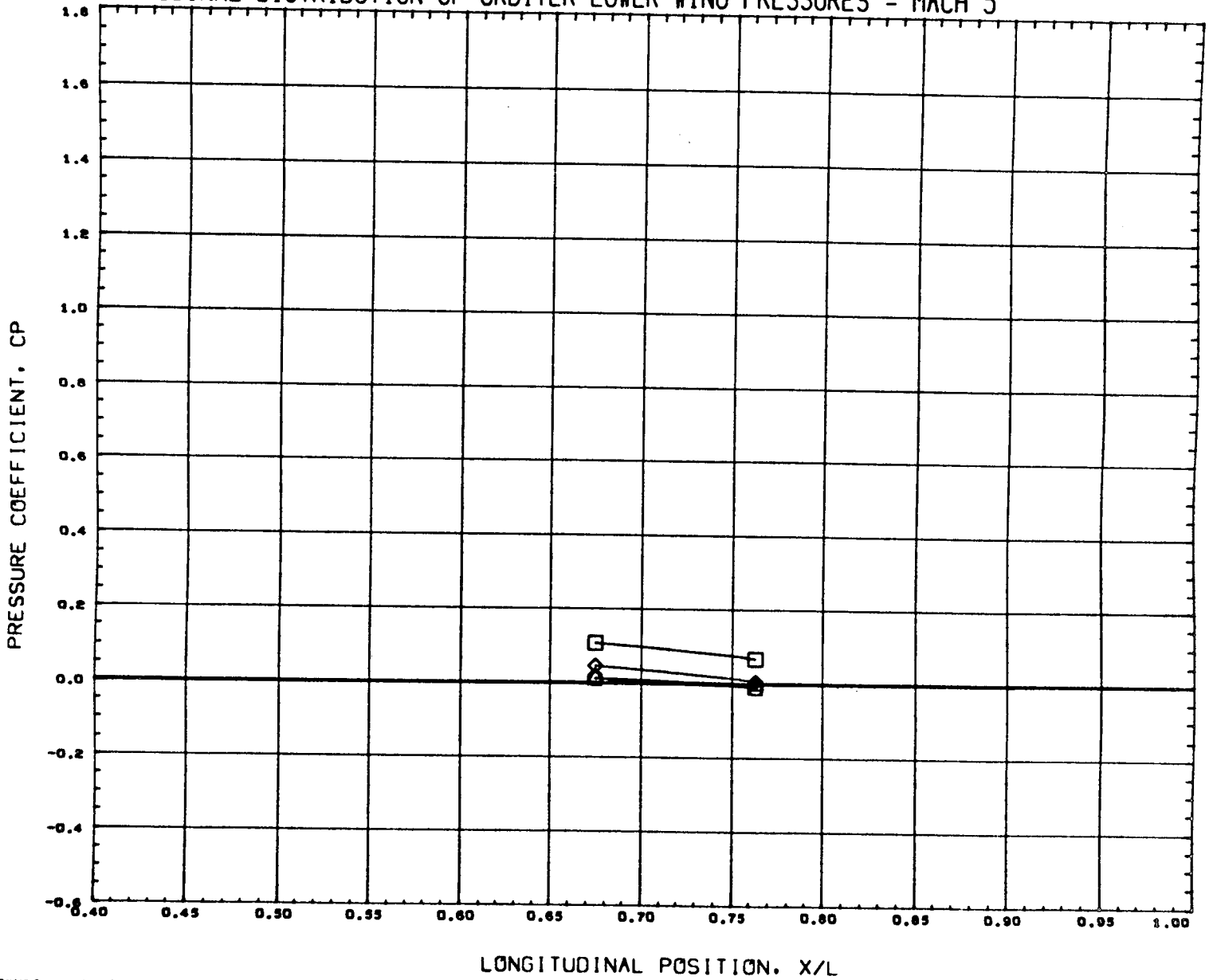
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

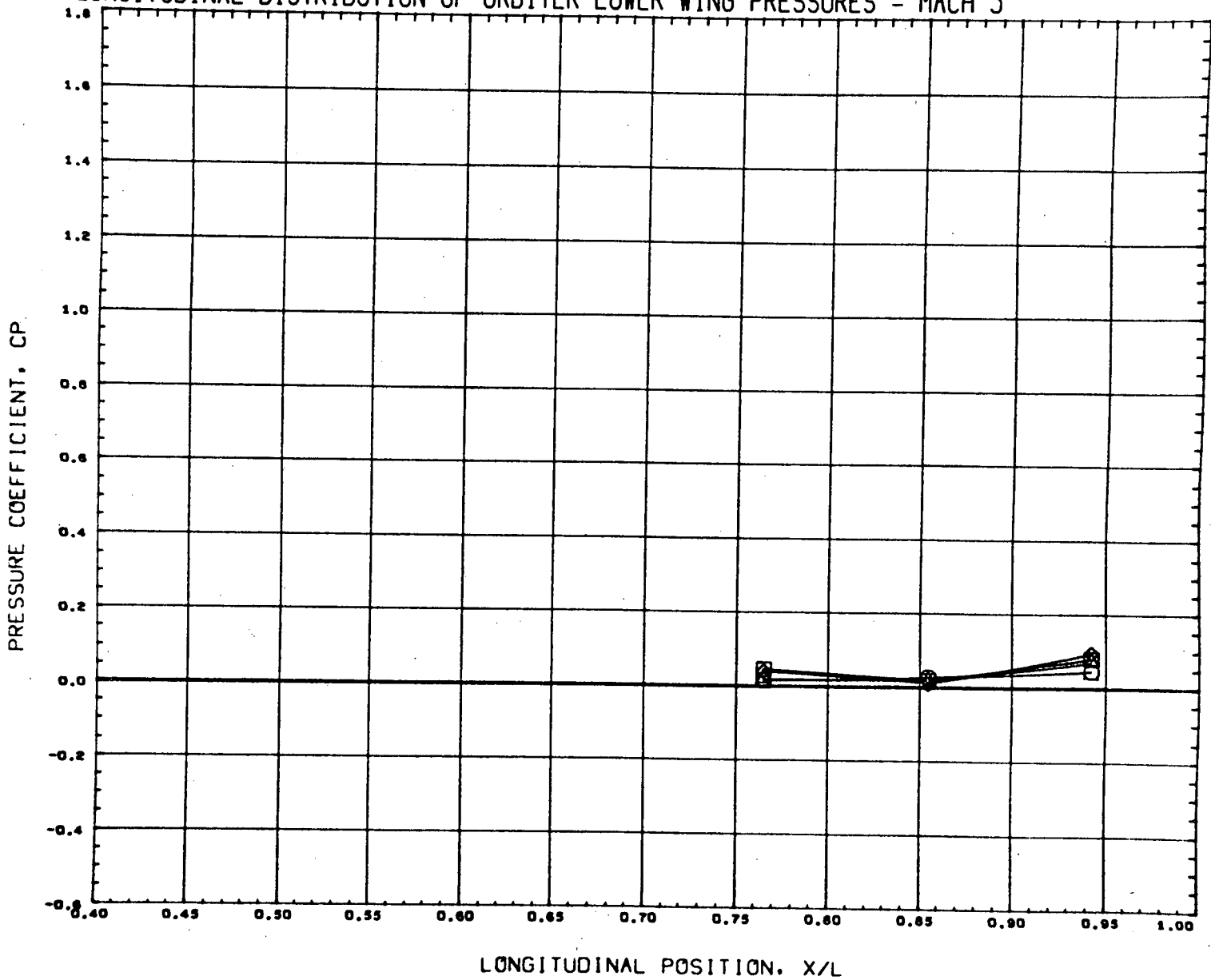


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHA B	- 3.090	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.369	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES		
ALPHAB	5.090	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

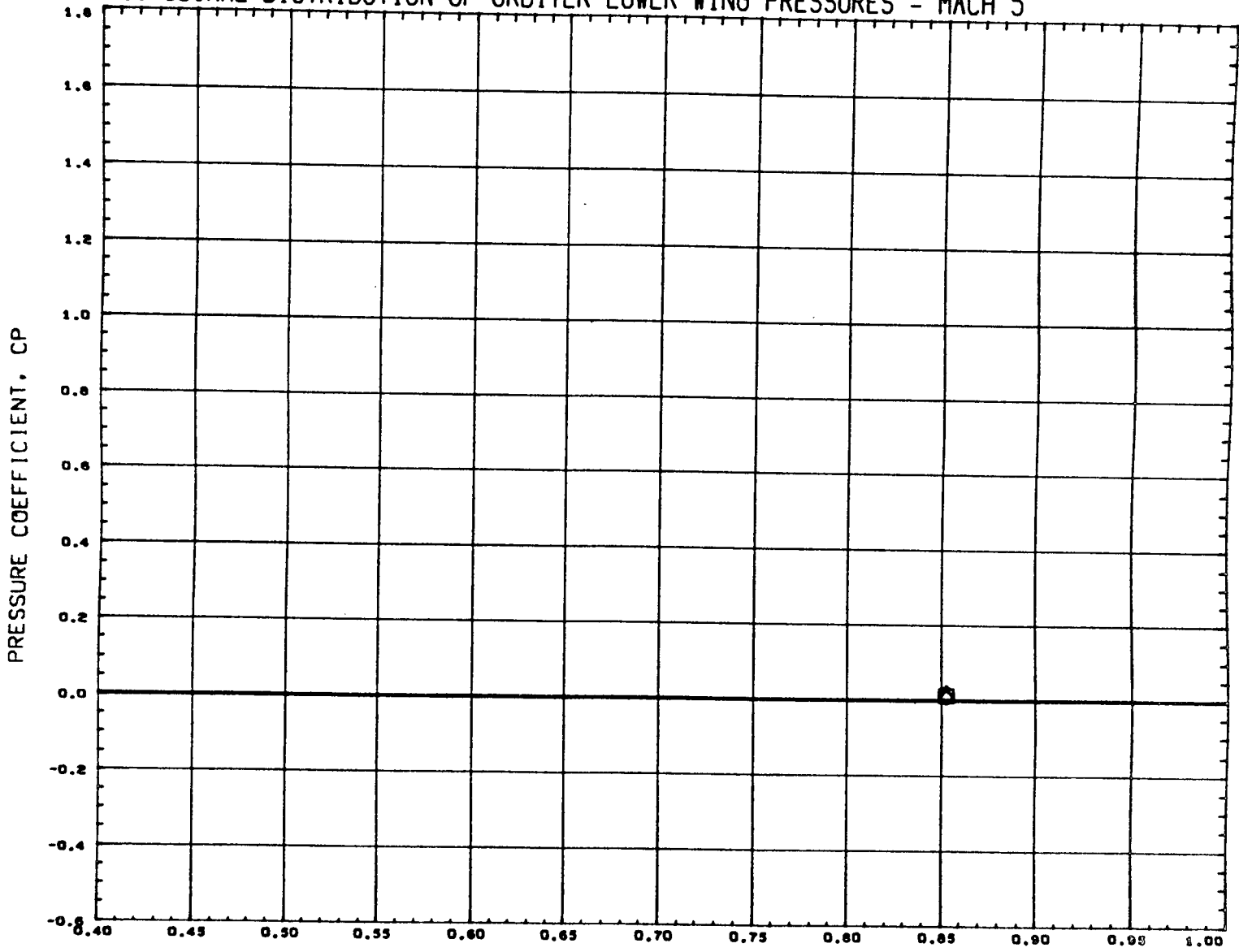
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z	PARAMETRIC VALUES			
○	0.041	0.738	0.114	ALPHAB	5.090	MACH	4.940
△	0.103			ALPHA1	0.000	ORBPOW	100.000
◇	0.165			BSTPOW	50.000		
□	0.350						

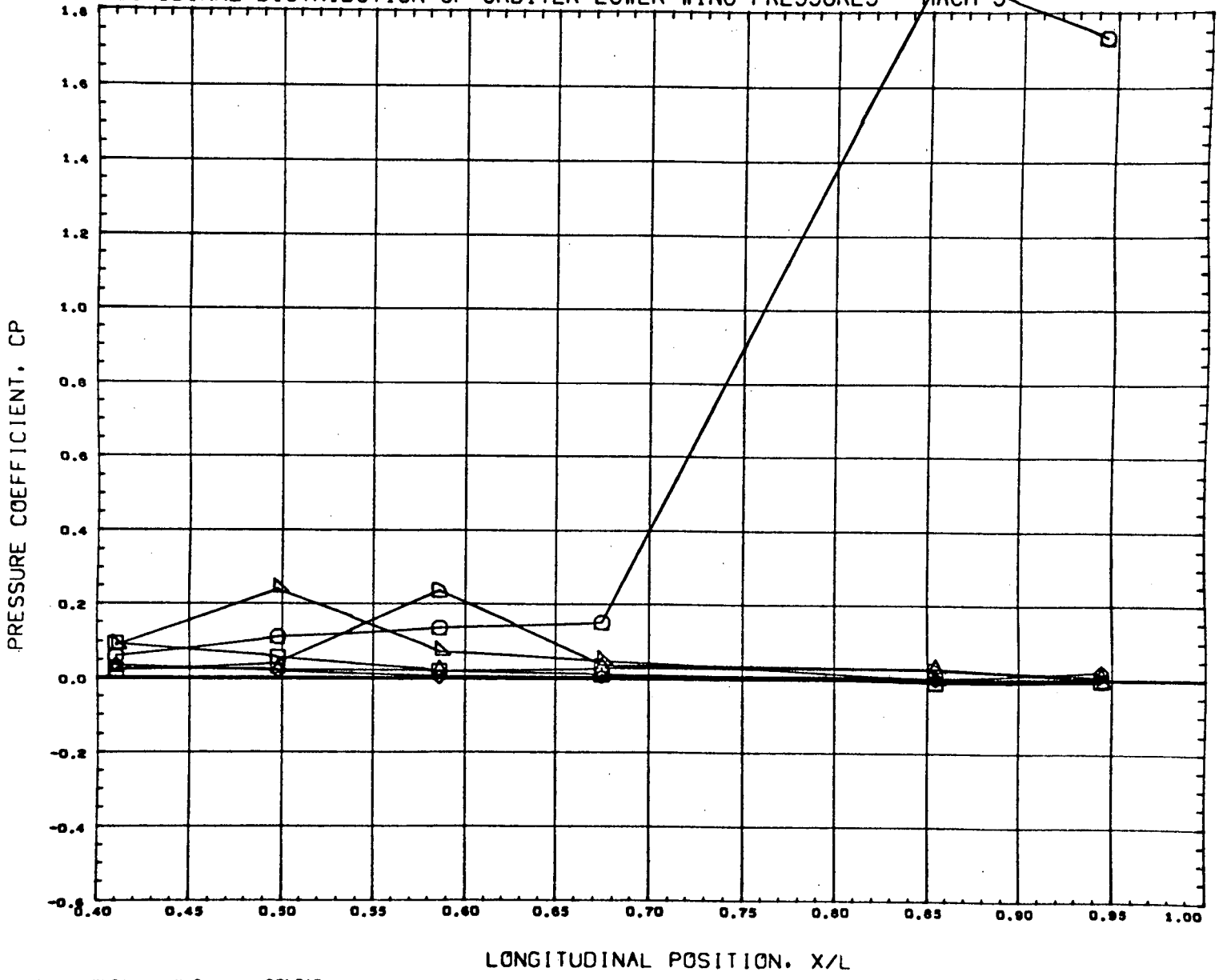
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

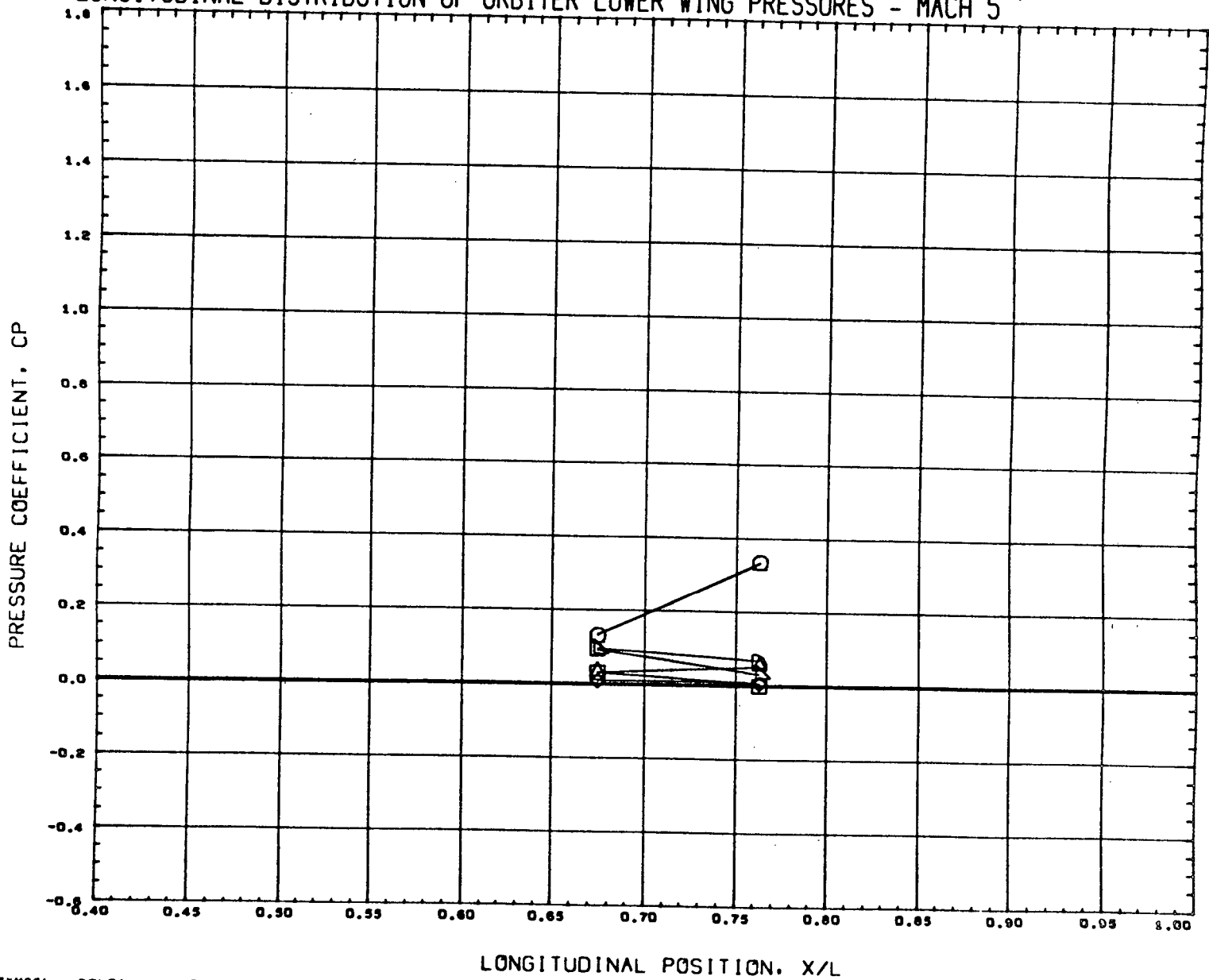


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.120
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◻	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.090	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

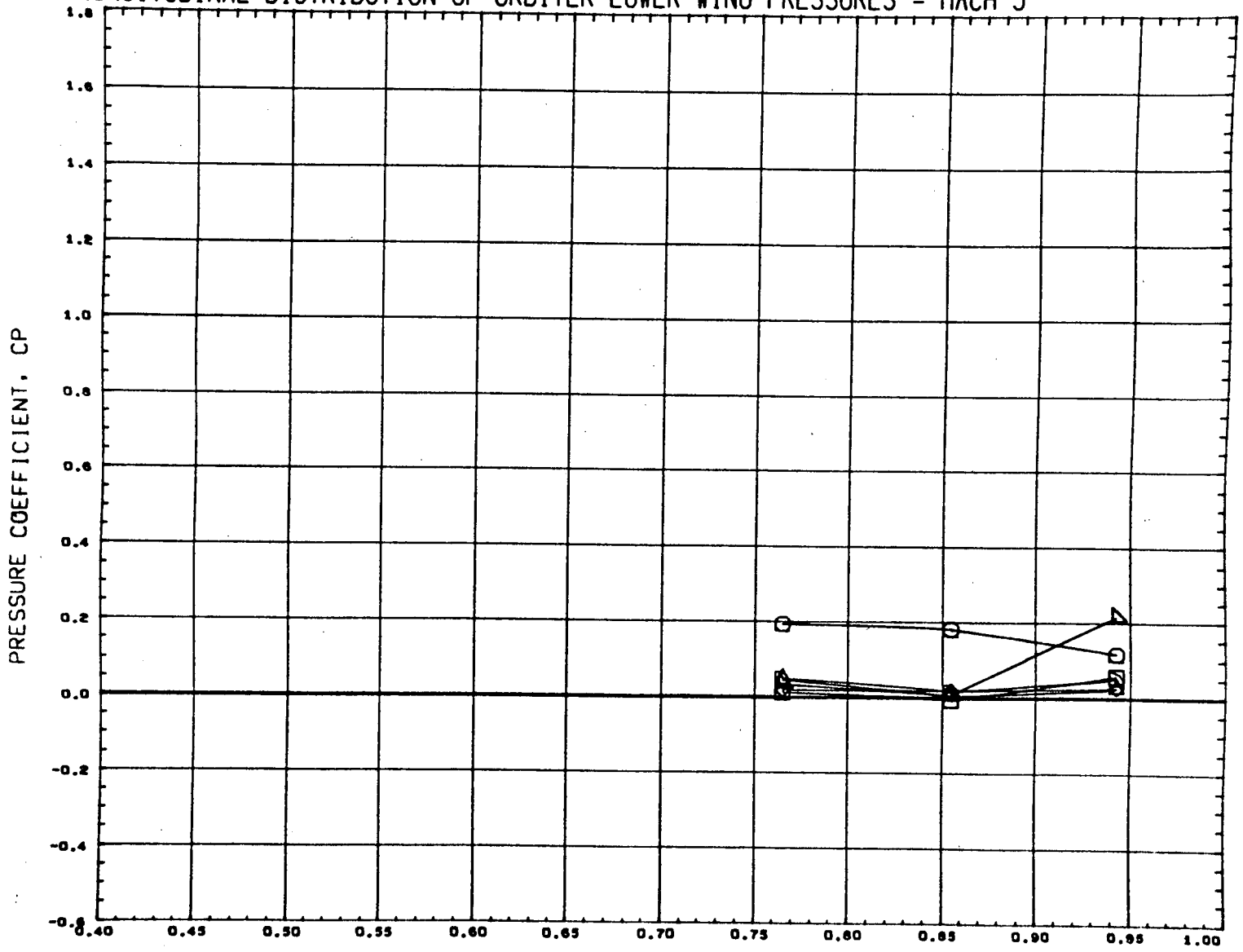
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.120
□	0.143		
◇	0.020		
△	0.103		
▽	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	5.090	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

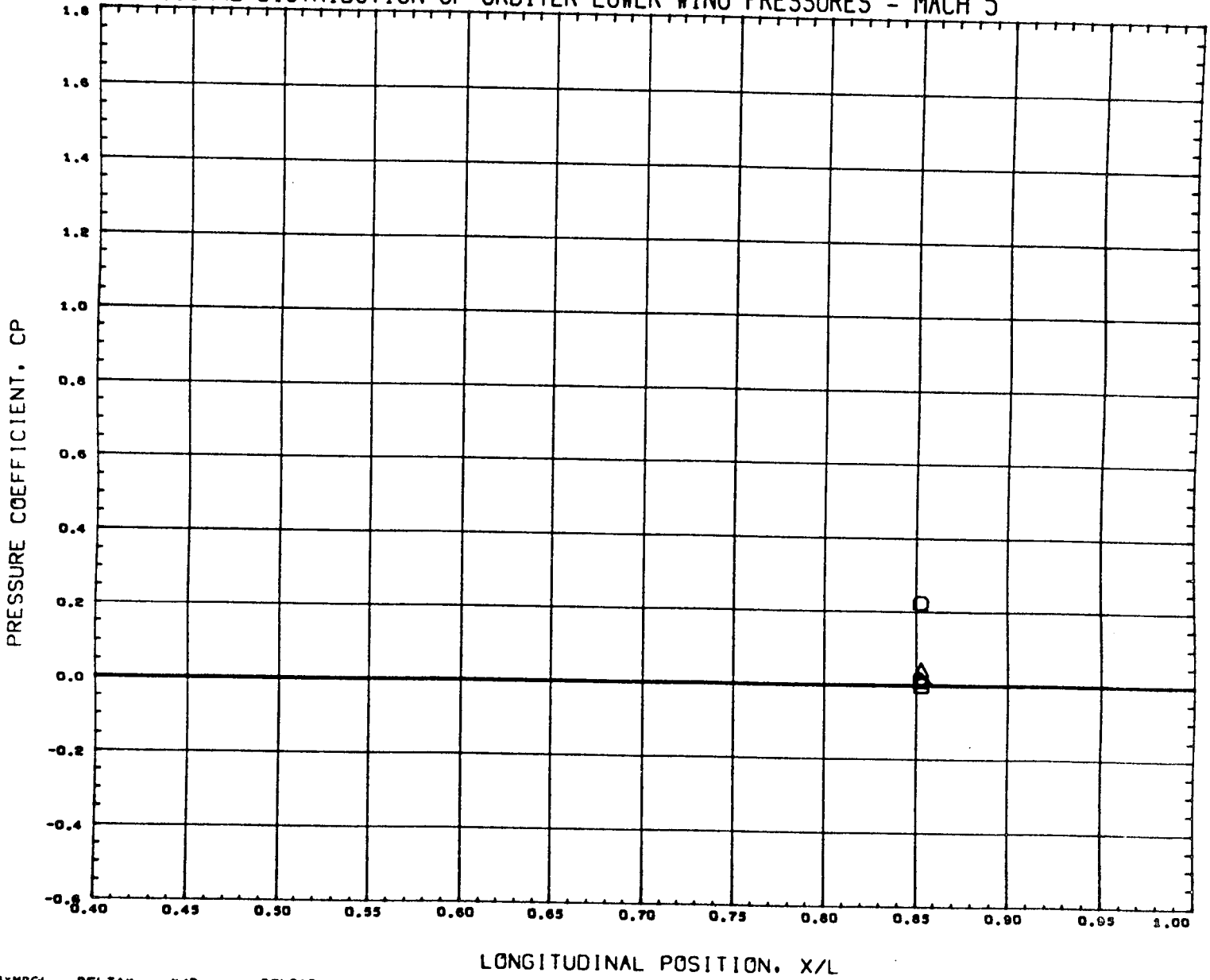


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.566	0.120
◇	0.143		
□	0.020		
▽	0.103		
◇	0.227		
◇	0.350		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.090	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	90.000		

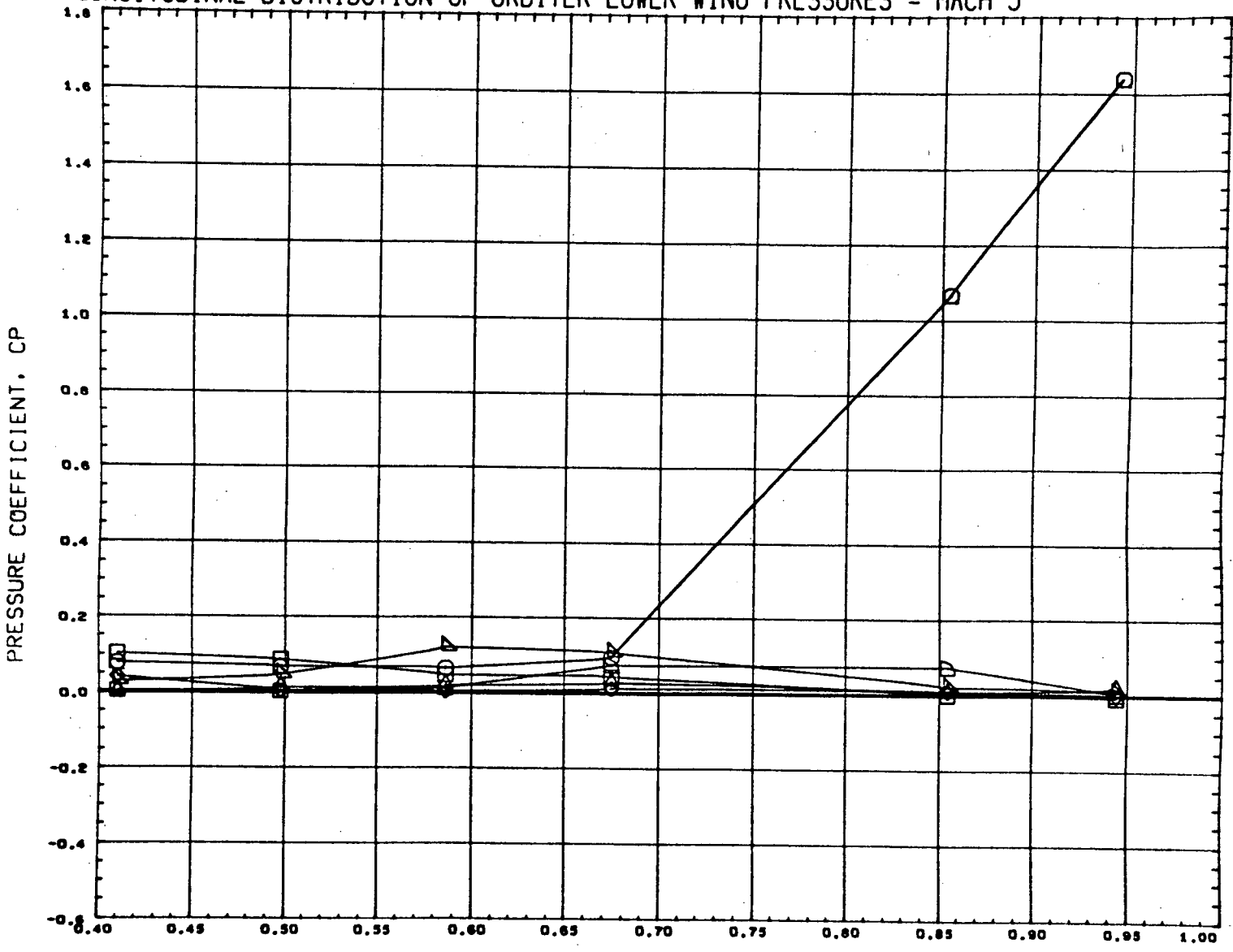
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.738	0.120
△	0.143		
□	0.020		
◇	0.103		
▽	0.227		
◇	0.350		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHA I	0.000	ORSPOW	100.000
BSTPOW	90.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



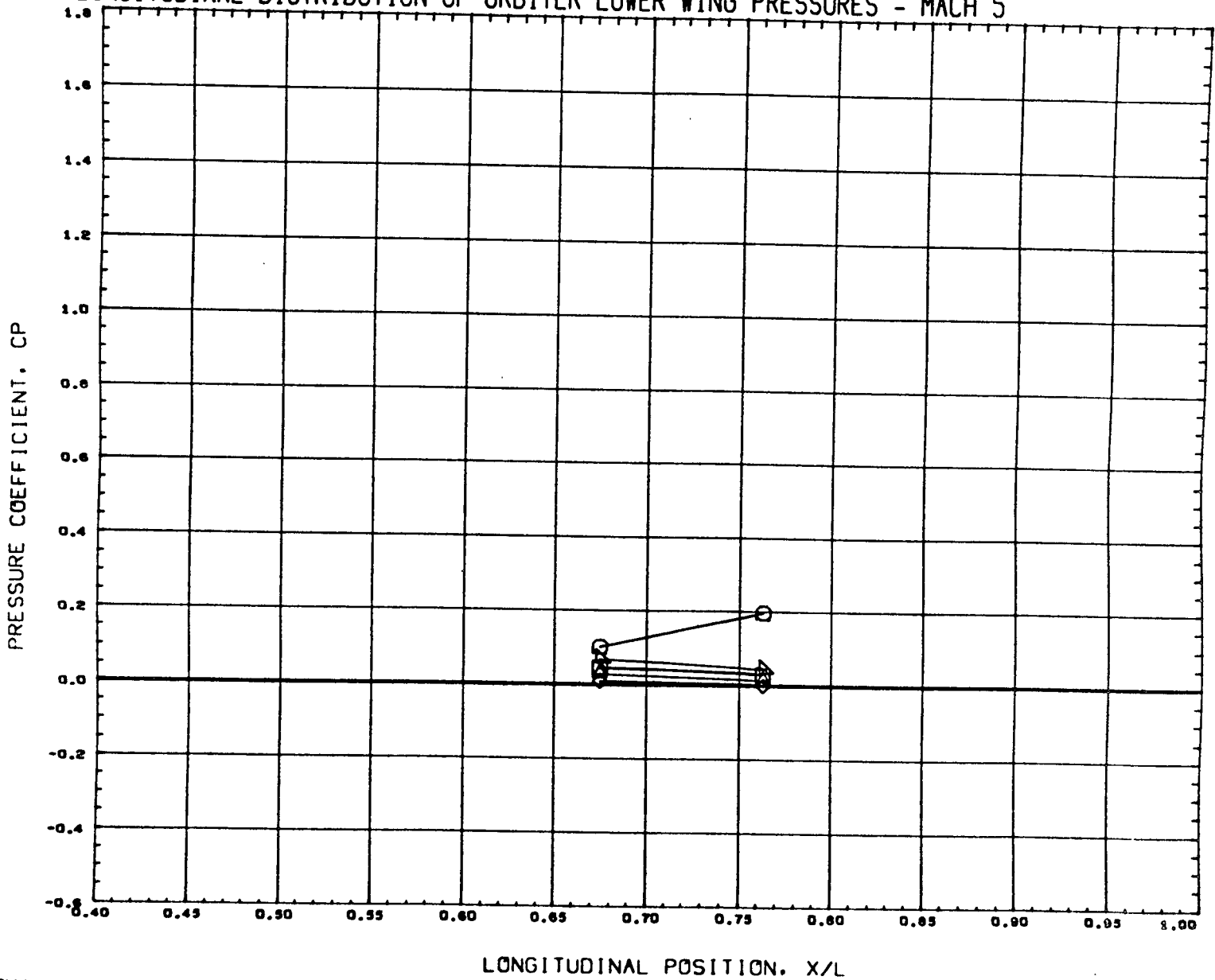
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.191
◇	0.143		
□	0.020		
△	0.103		
▽	0.227		
◇	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.090	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

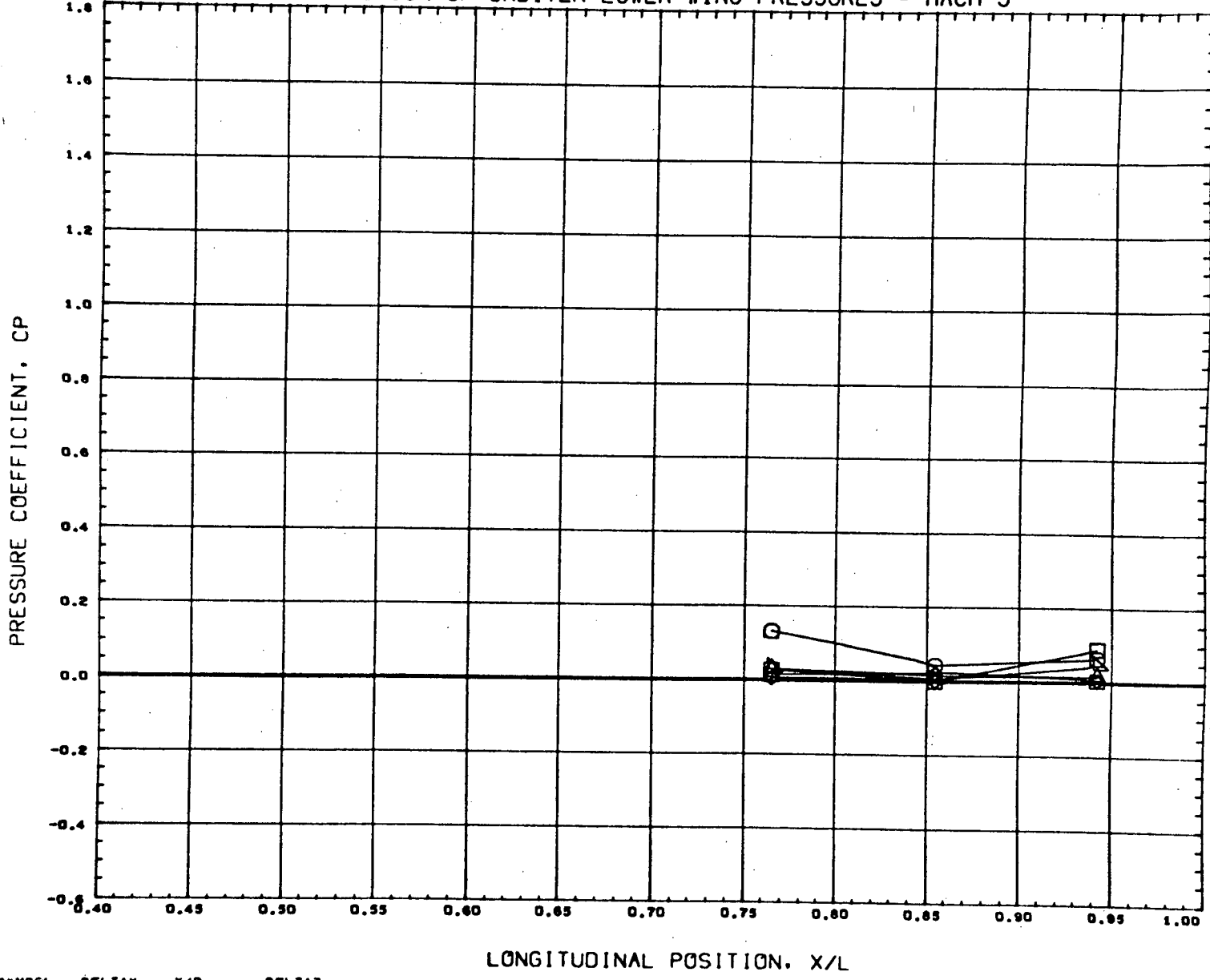


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.151
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	3.090	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

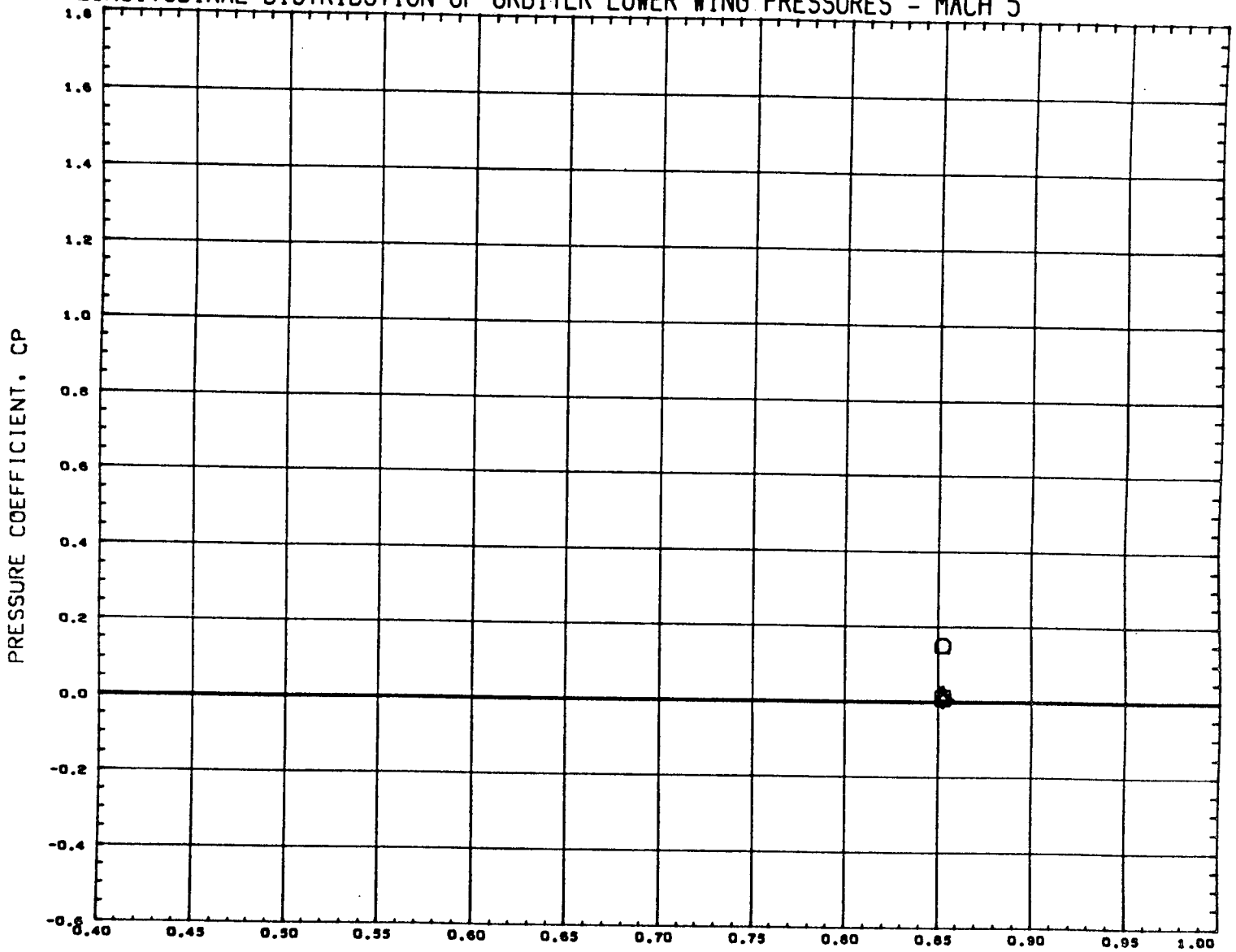


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.368	0.151
◇	0.143		
△	0.020		
□	0.103		
◇	0.227		
□	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	- 3.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

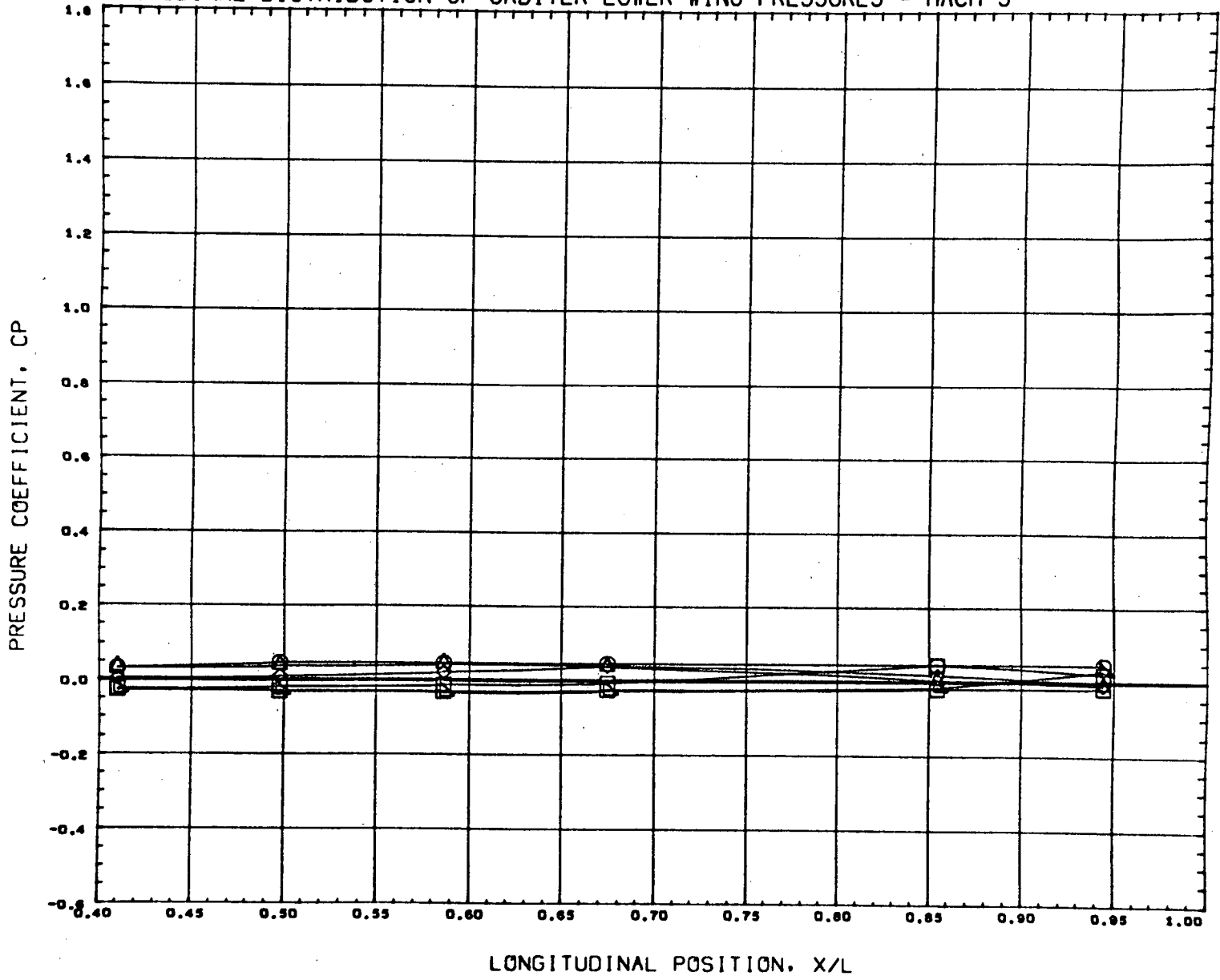


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.739	0.191
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	- 3.090	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

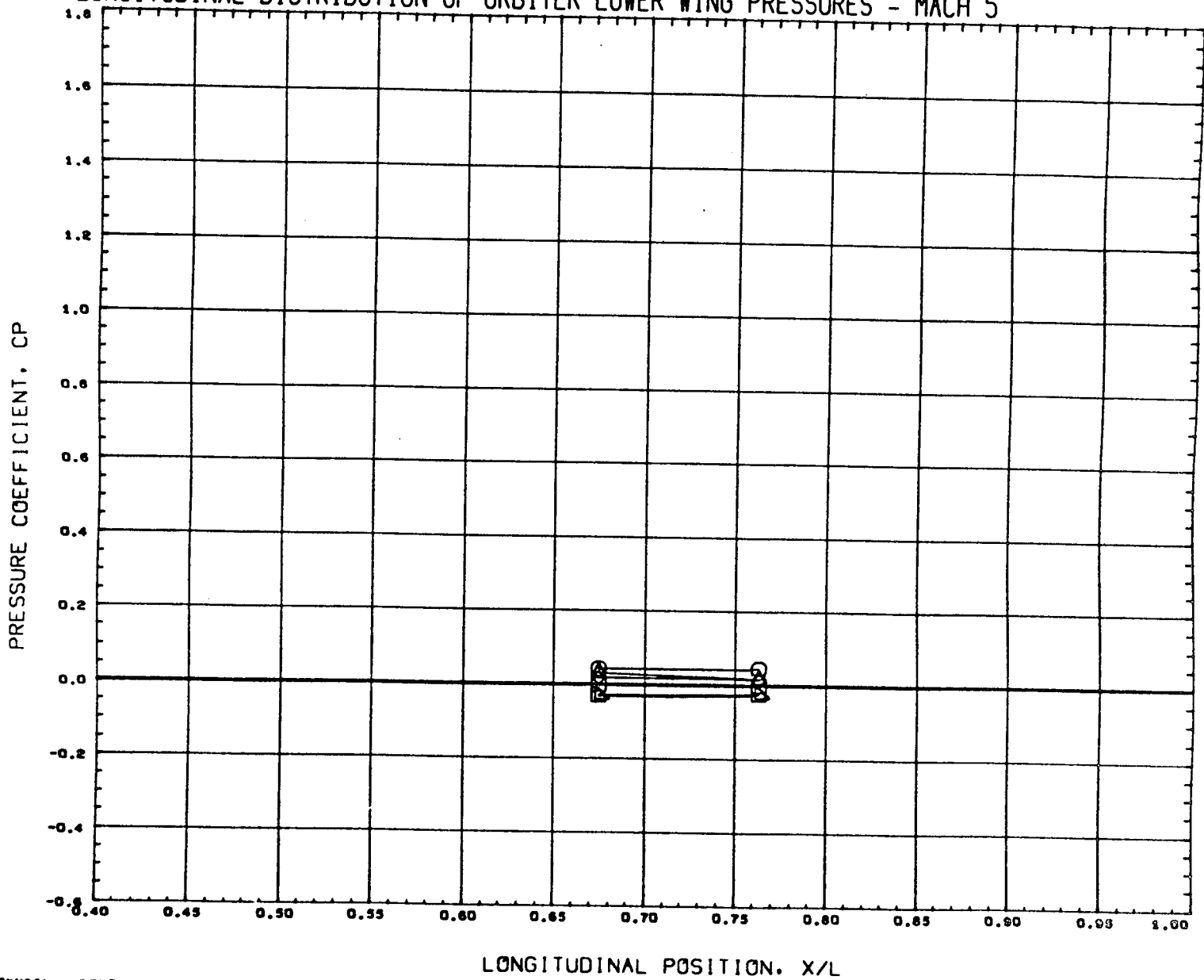


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.228
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◻	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	5.090	MACH 4.940
ALPHA1	0.000	ORBPOW 100.000
BSTPOW	50.000	

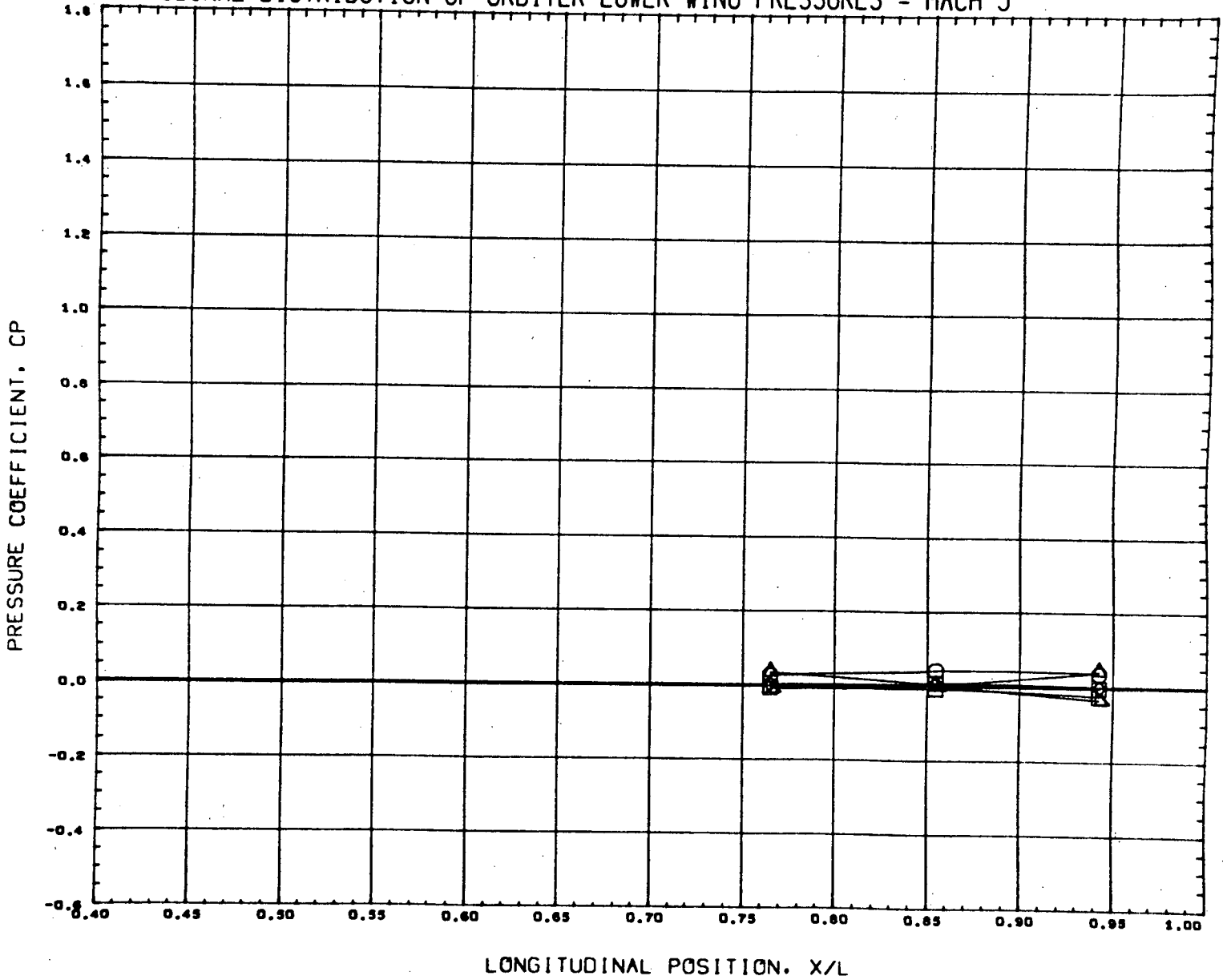
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.399	0.399	0.228
◇	0.143		
△	0.020		
□	0.103		
◇	0.227		
□	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	5.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

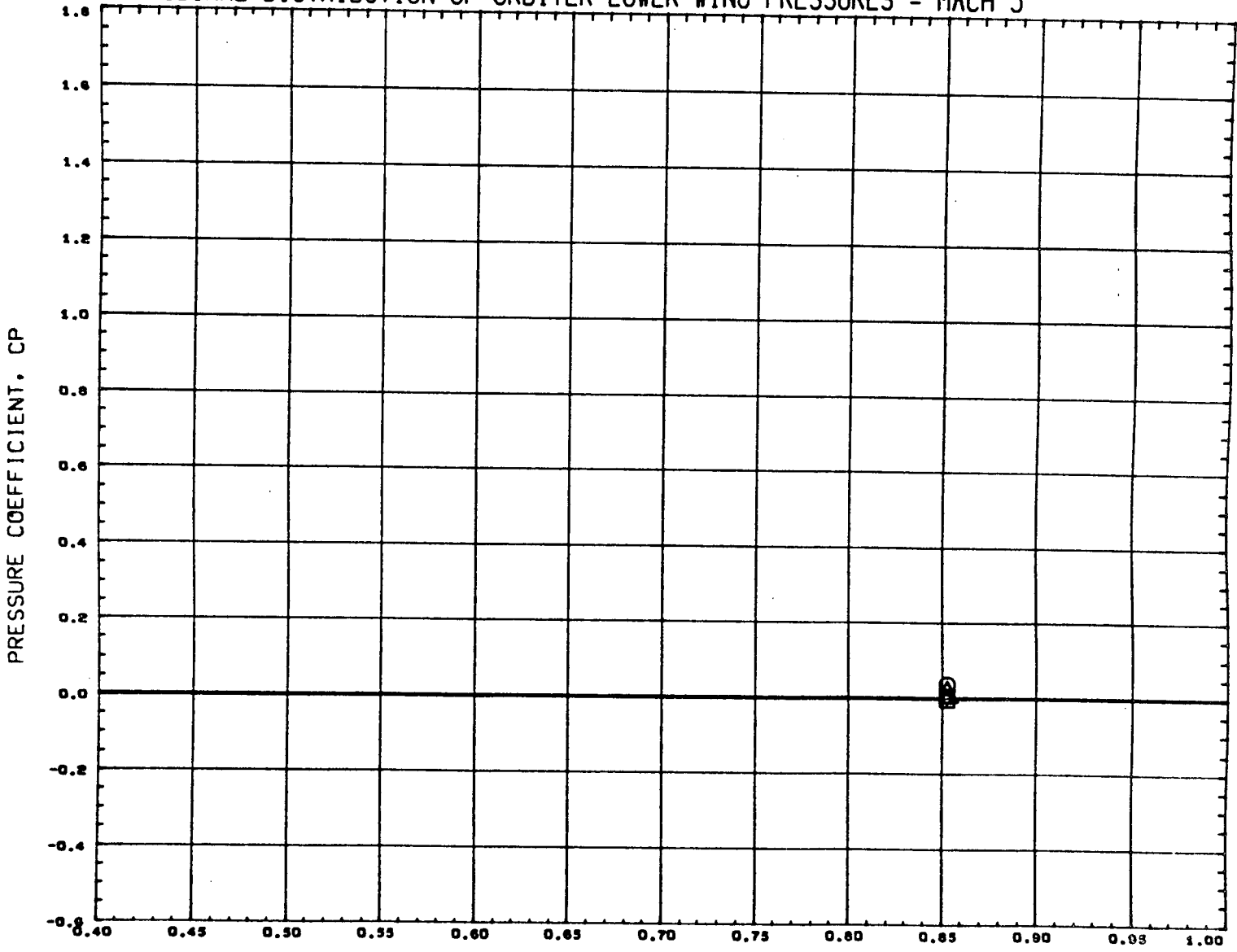


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.569	0.226
◇	0.143		
□	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



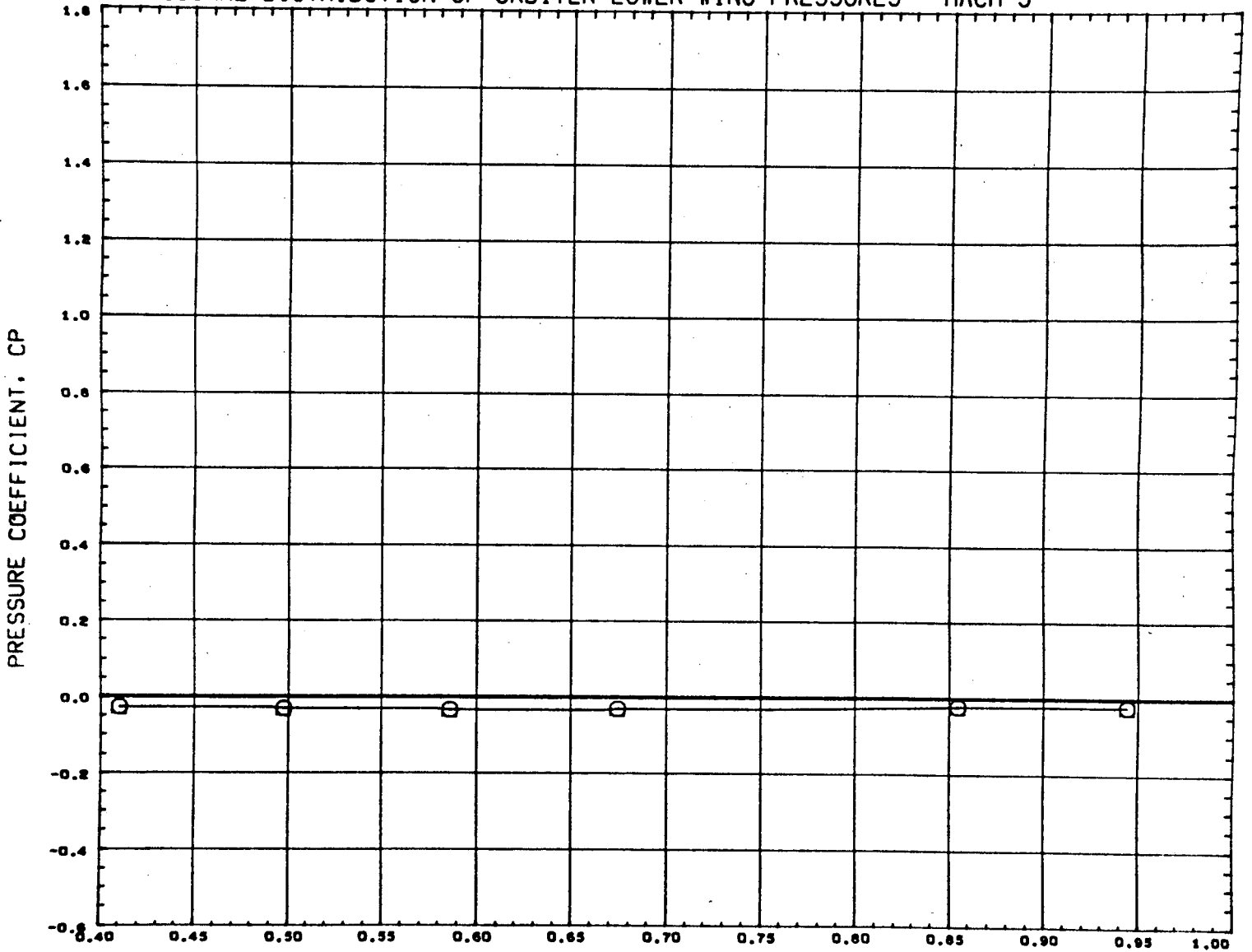
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.736	0.228
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	3.090	MACH 4.940
ALPHA I	0.000	ORSPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.230	0.908

PARAMETRIC VALUES			
ALPHAB	- 3.090	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	30.000		

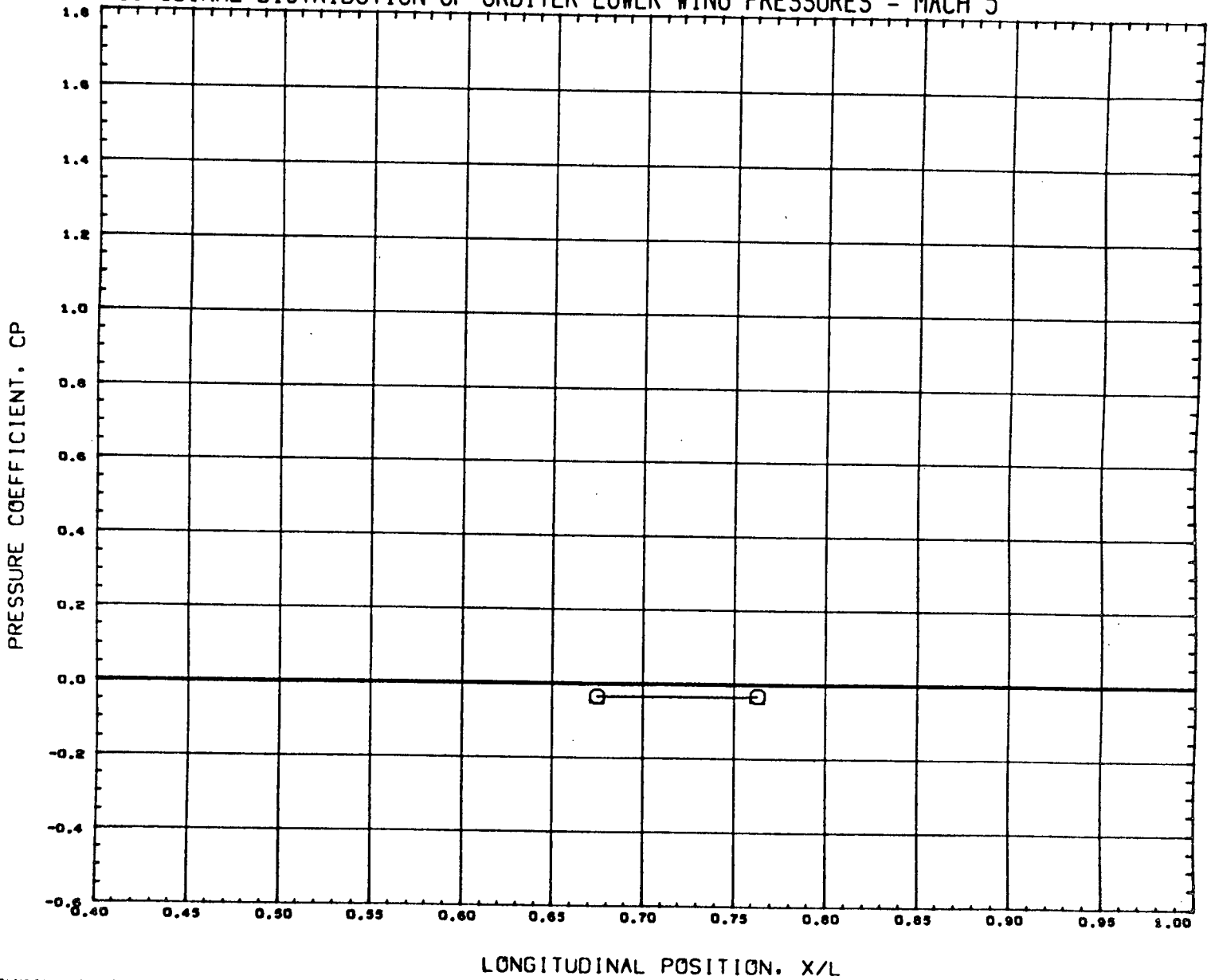
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.908

PARAMETRIC VALUES			
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ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

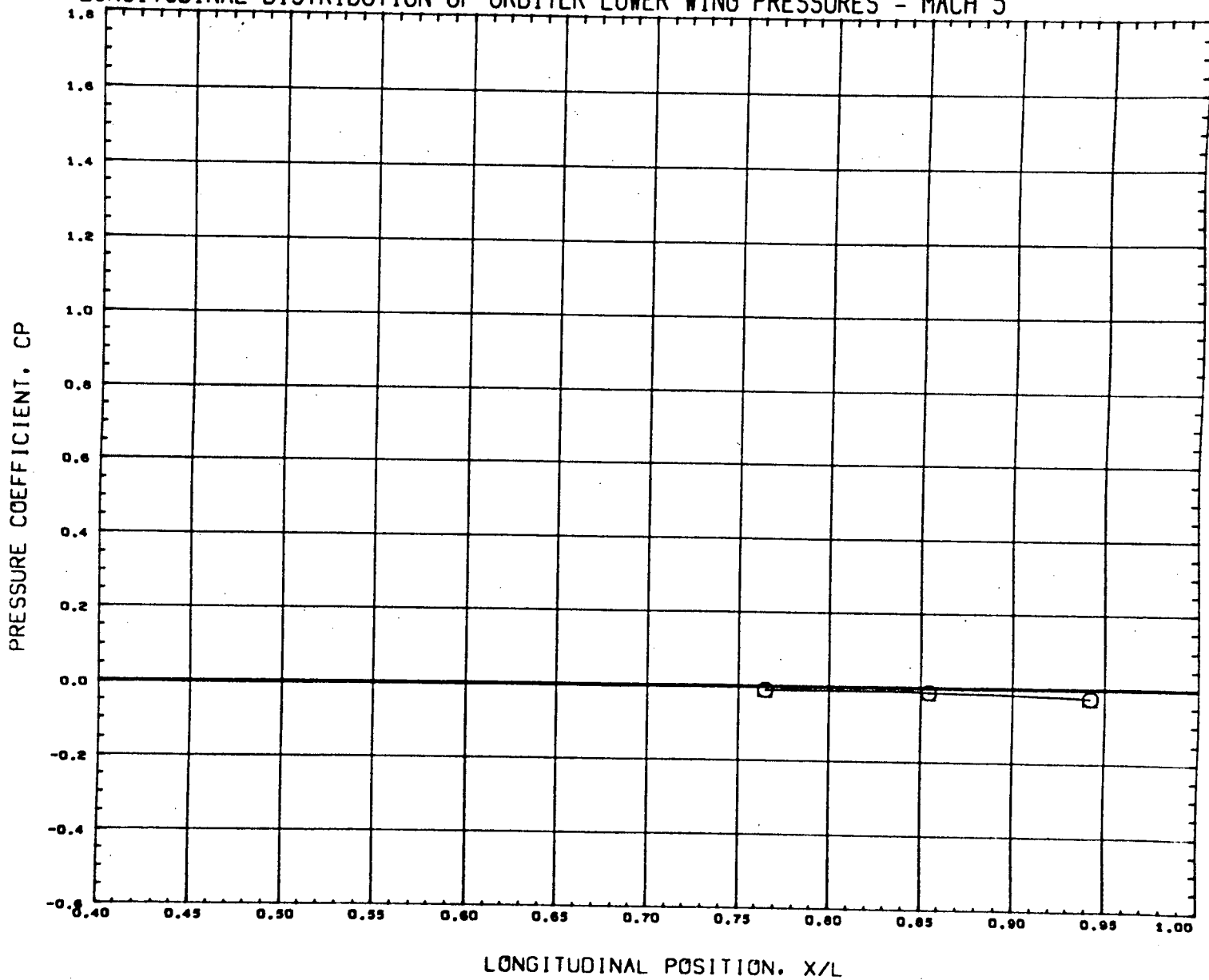
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.368	0.908

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

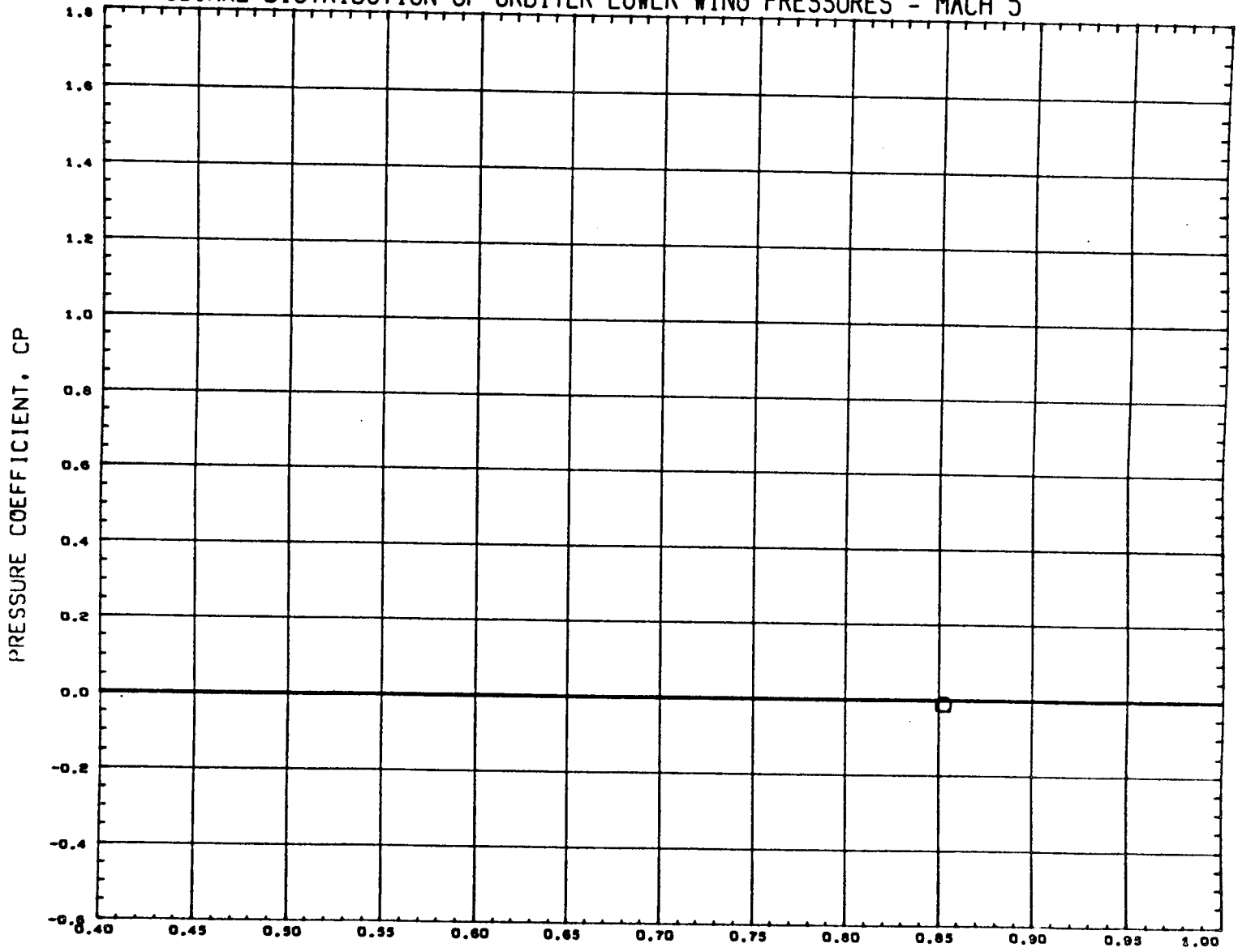
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.739	0.908

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	30.000		

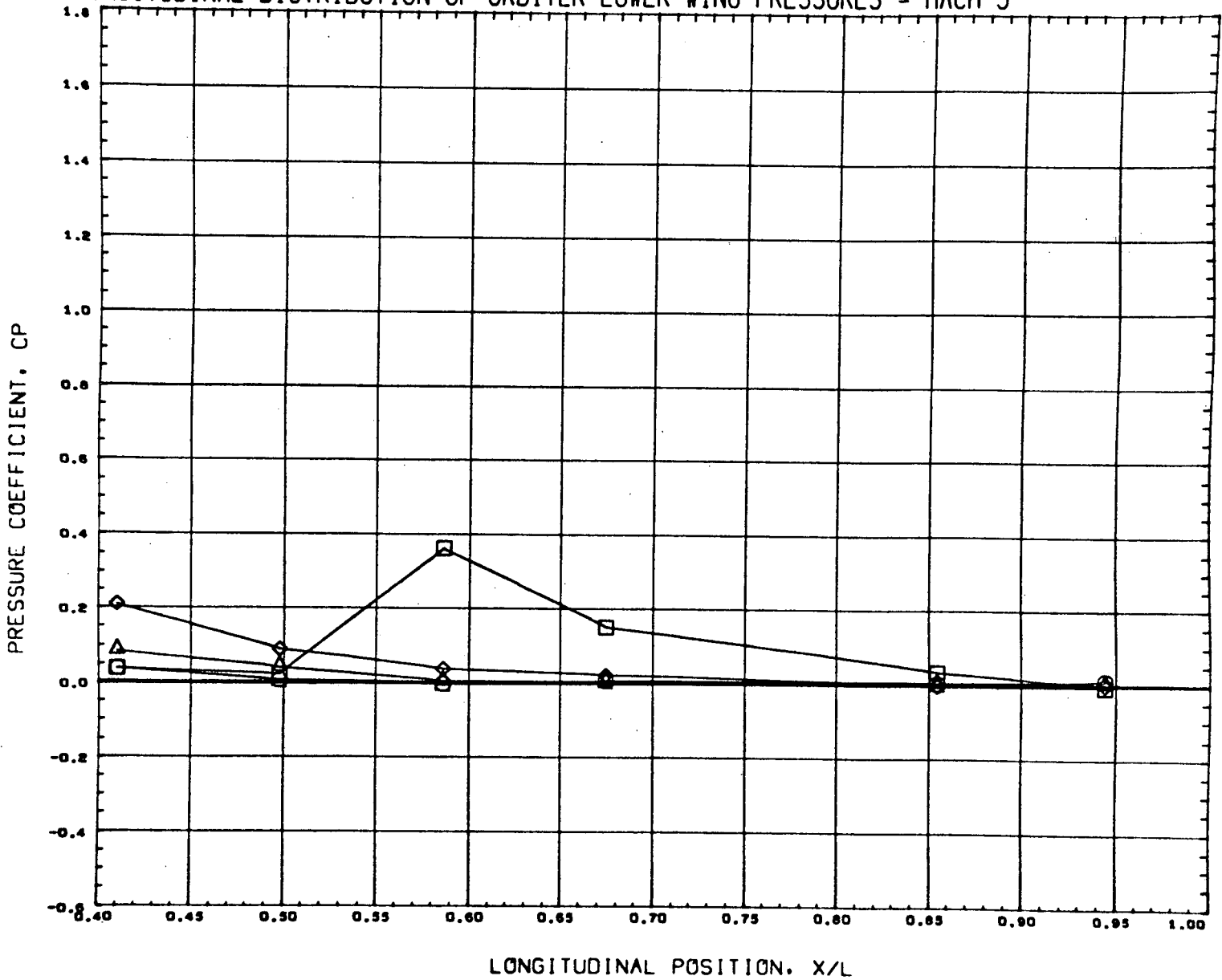
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z	PARAMETRIC VALUES		
○	0.041	0.230	0.114	ALPHAB	0.039	MACH 4.940
△	0.103			ALPHA1	0.000	ORBPOW 100.000
◇	0.169			BSTPOW	50.000	
□	0.350					

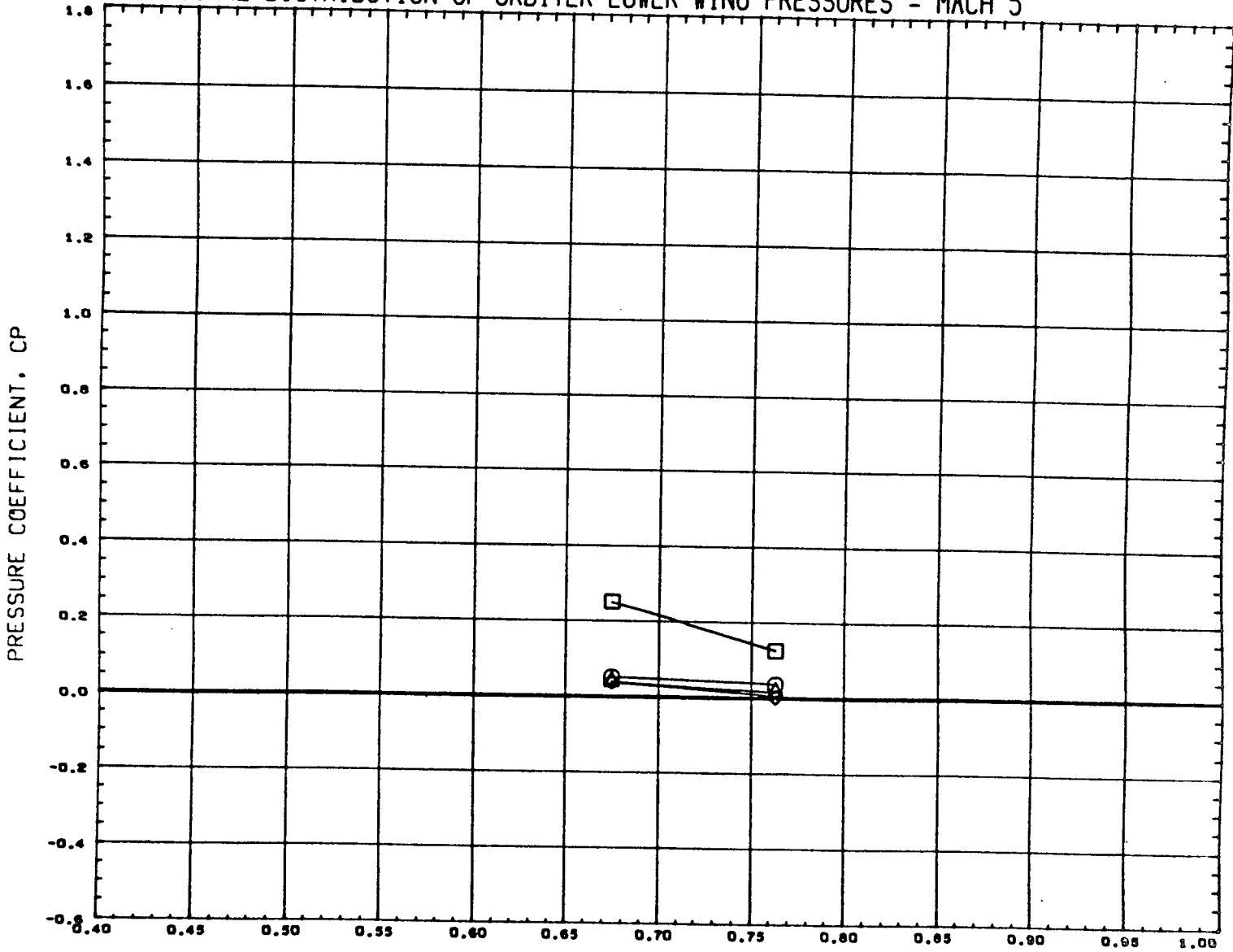
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHA I	0.000	ORBPOW 100.000
BSTPOW	50.000	

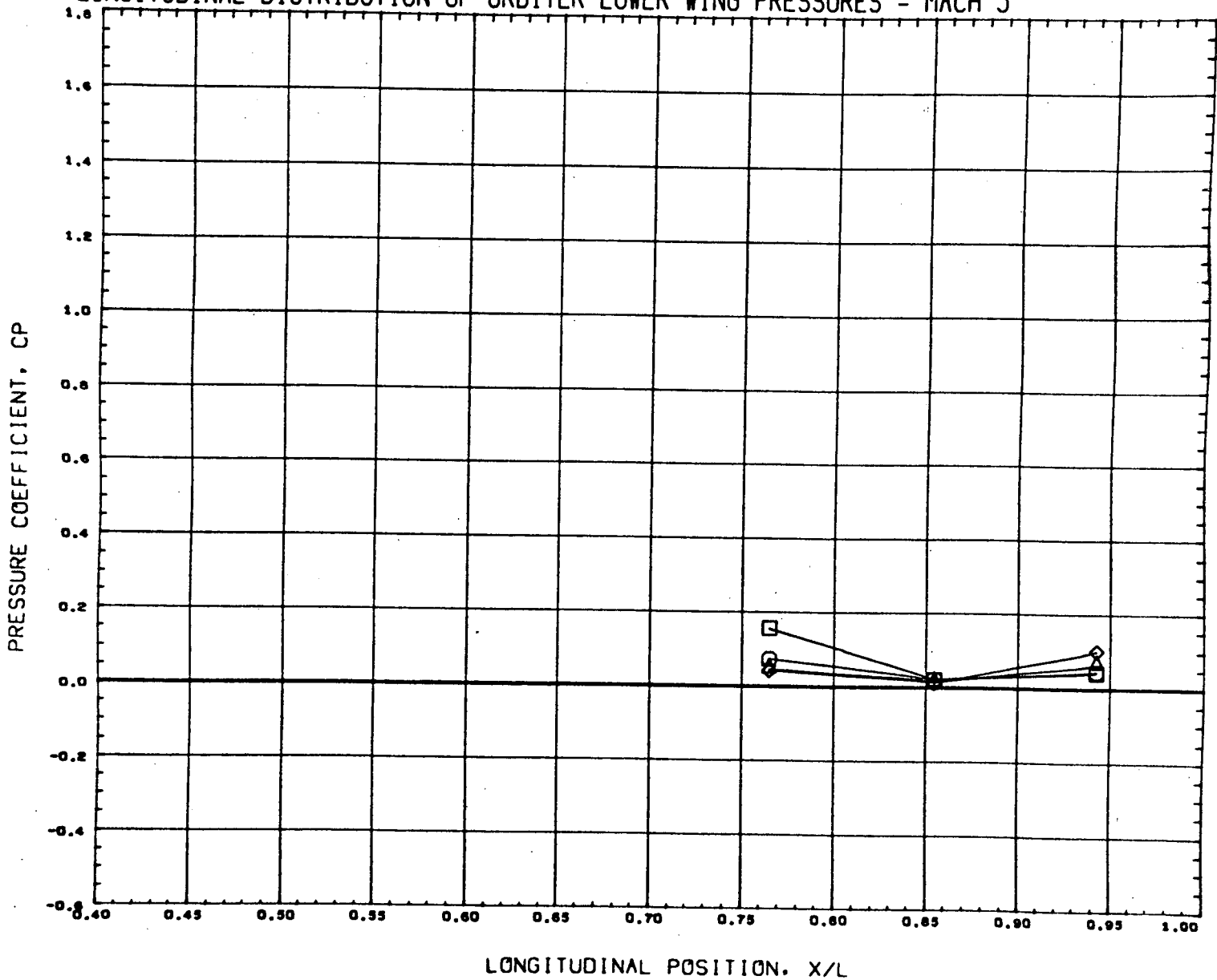
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8533•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

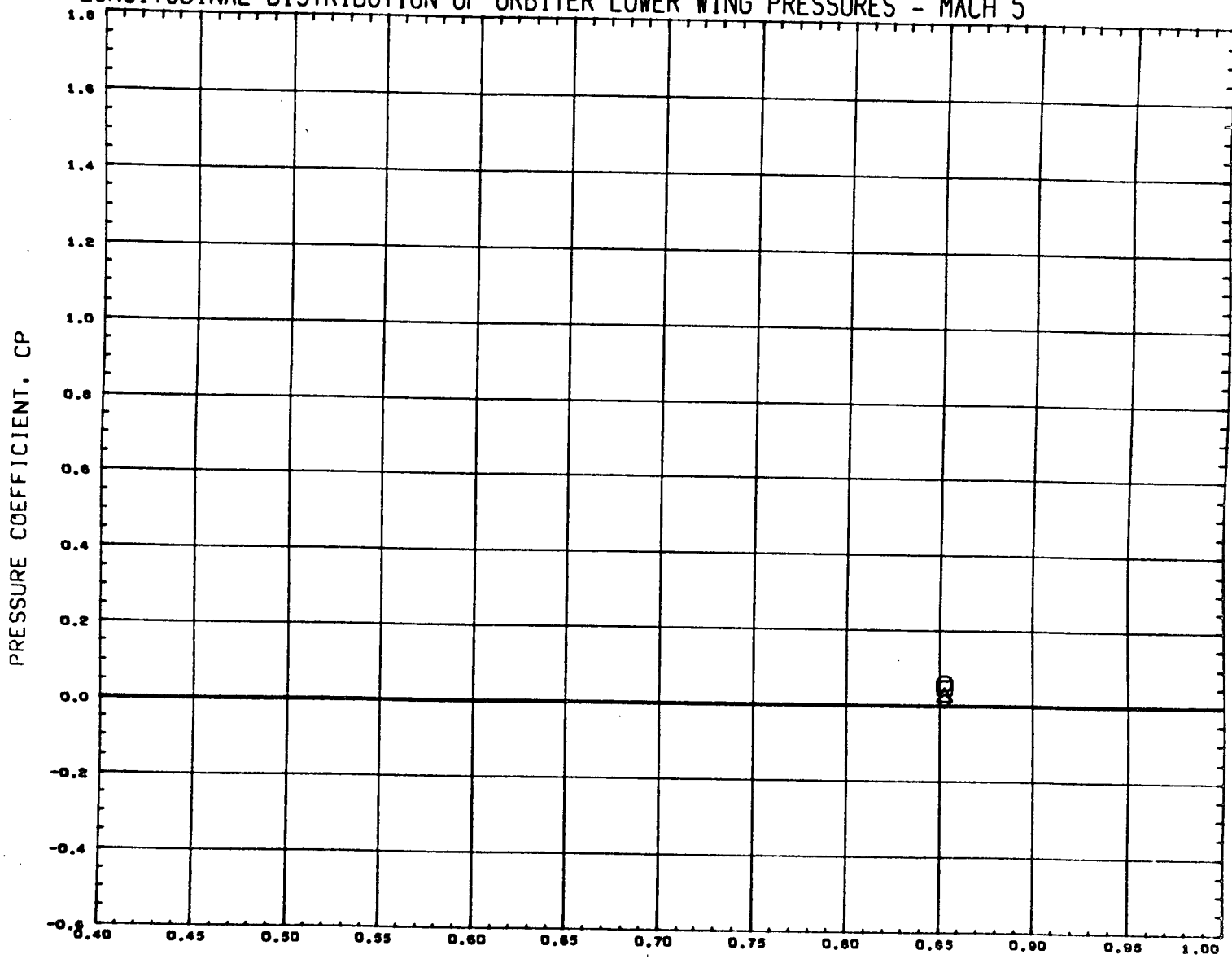


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.568	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.739	0.114
△	0.103		
◇	0.185		
□	0.350		

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.040
ALPHA1	0.000	ORBPOW 100.000
BSTPOW	50.000	

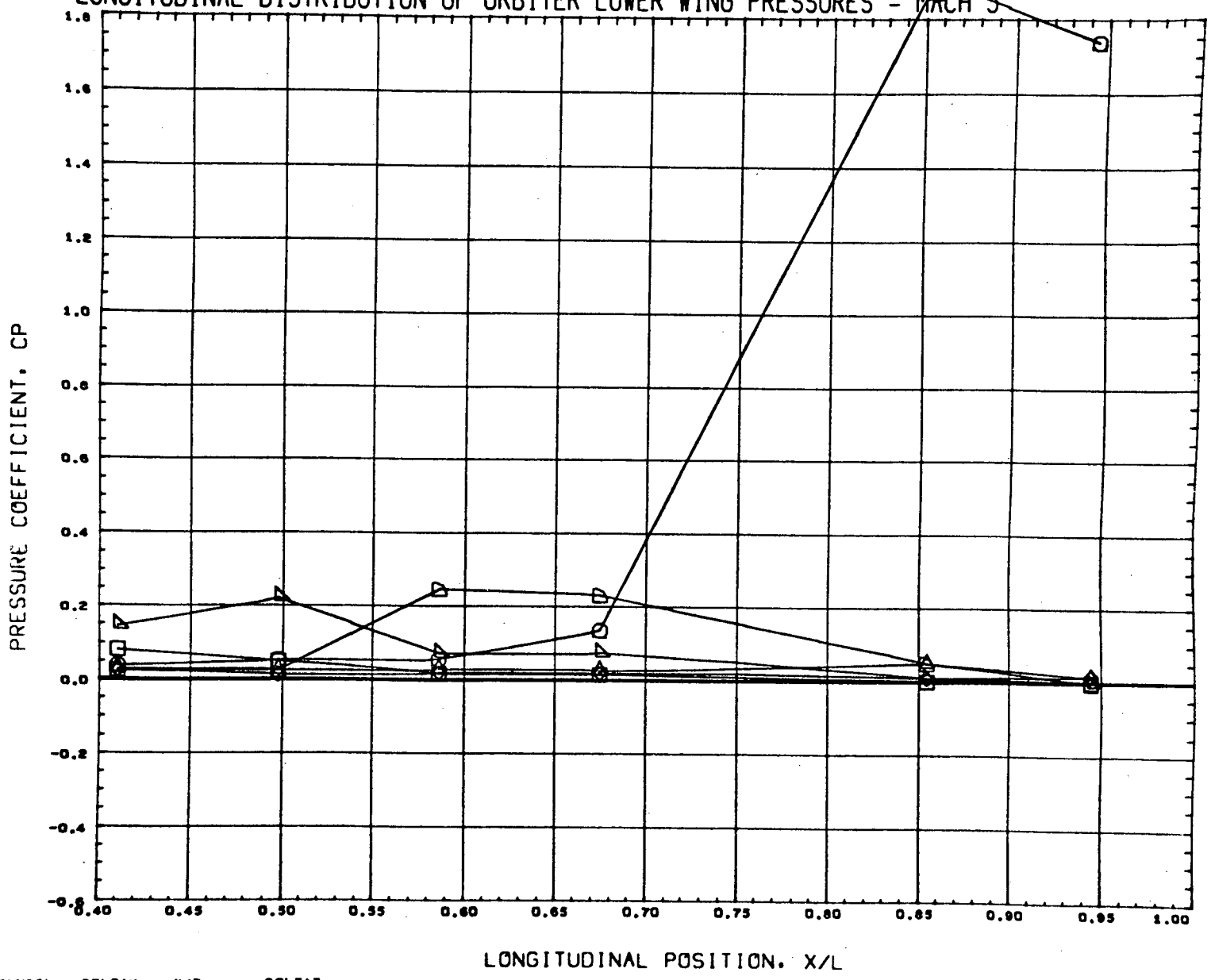
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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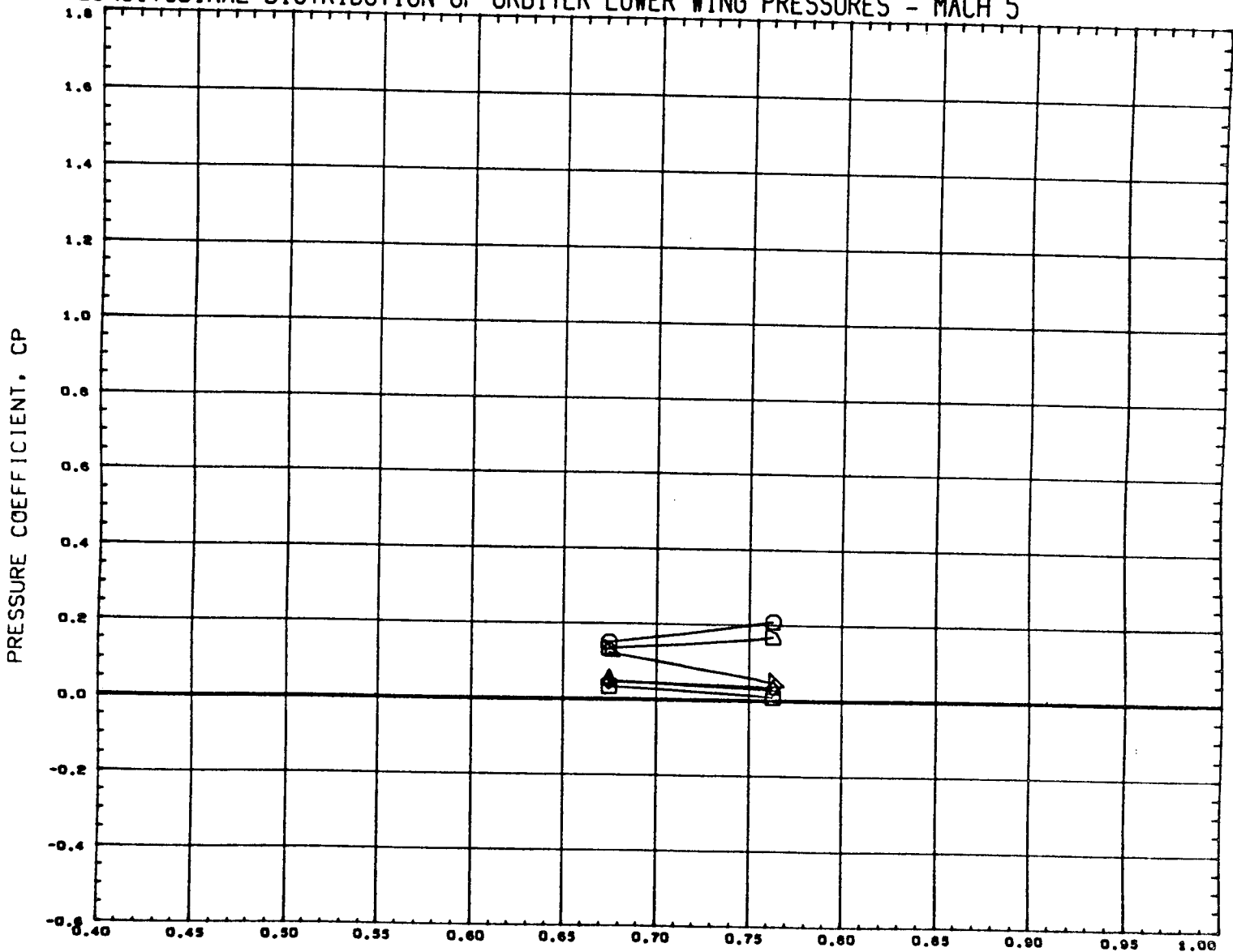
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.120
◇	0.143		
◊	0.020		
□	0.103		
▽	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

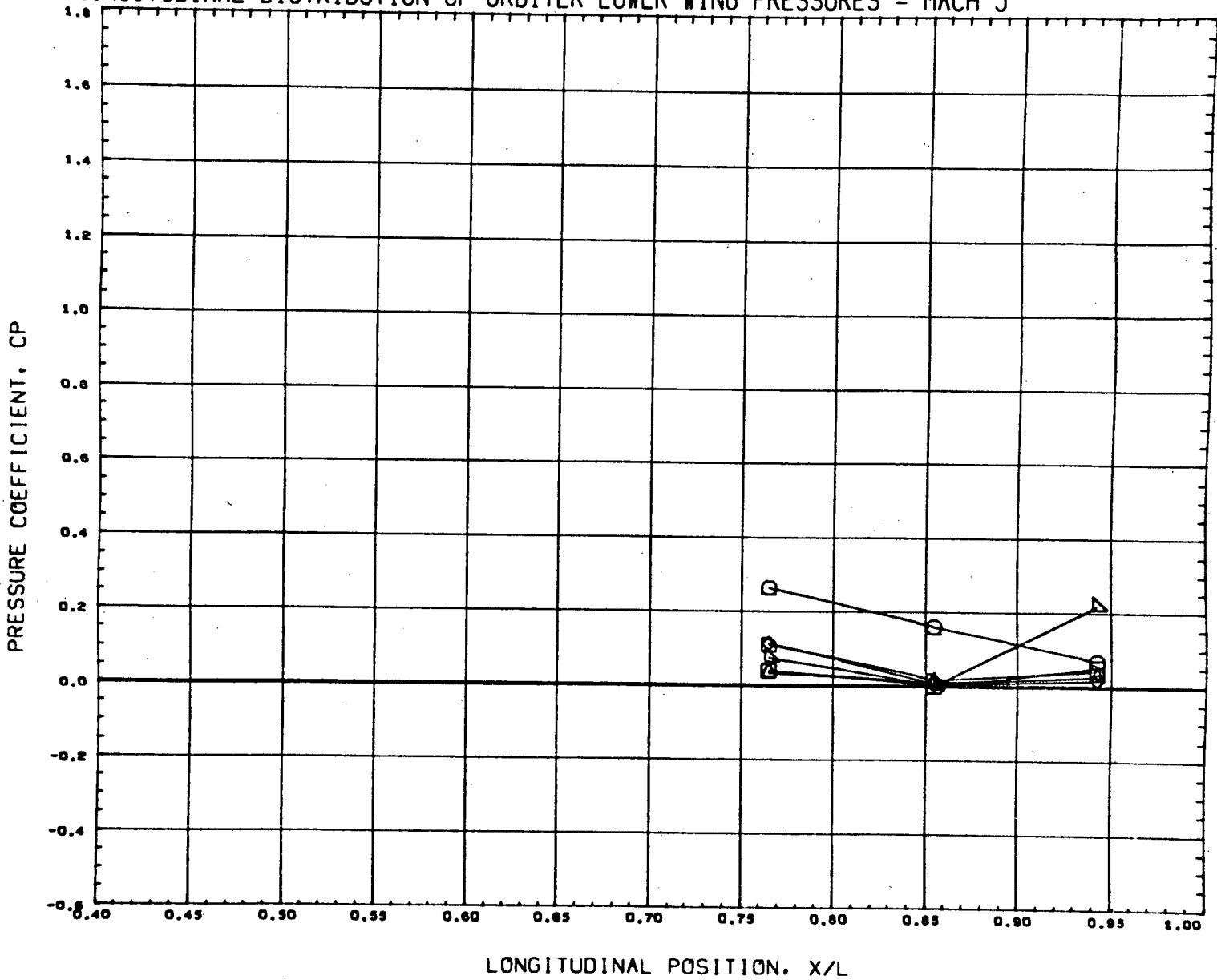


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.390	0.399	0.120
△	- 0.143		
◇	- 0.020		
□	0.103		
▽	0.227		
◻	0.390		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHAT	0.000	ORBPOW	100.000
BSTPOW	30.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

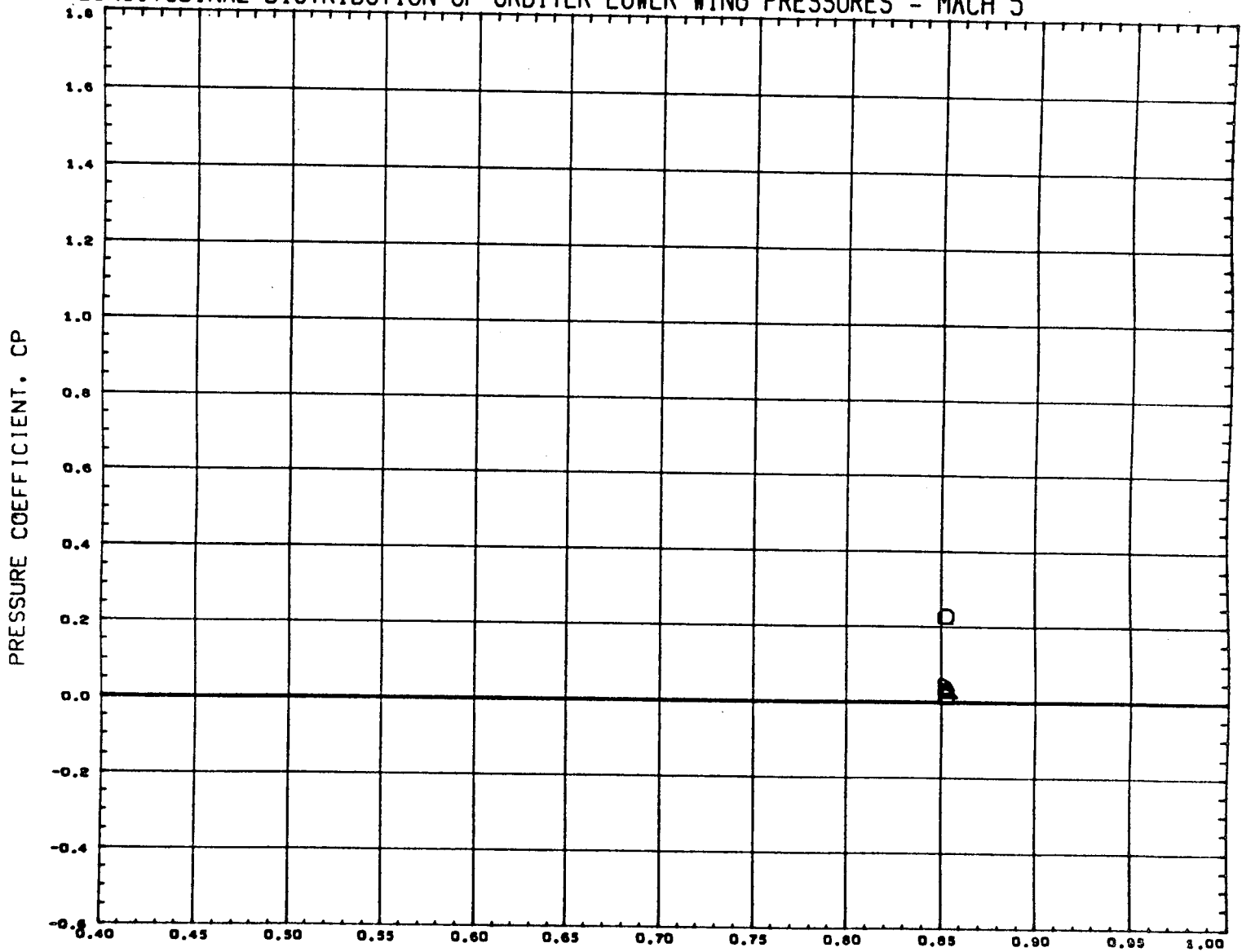


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.566	0.120
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHA I	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



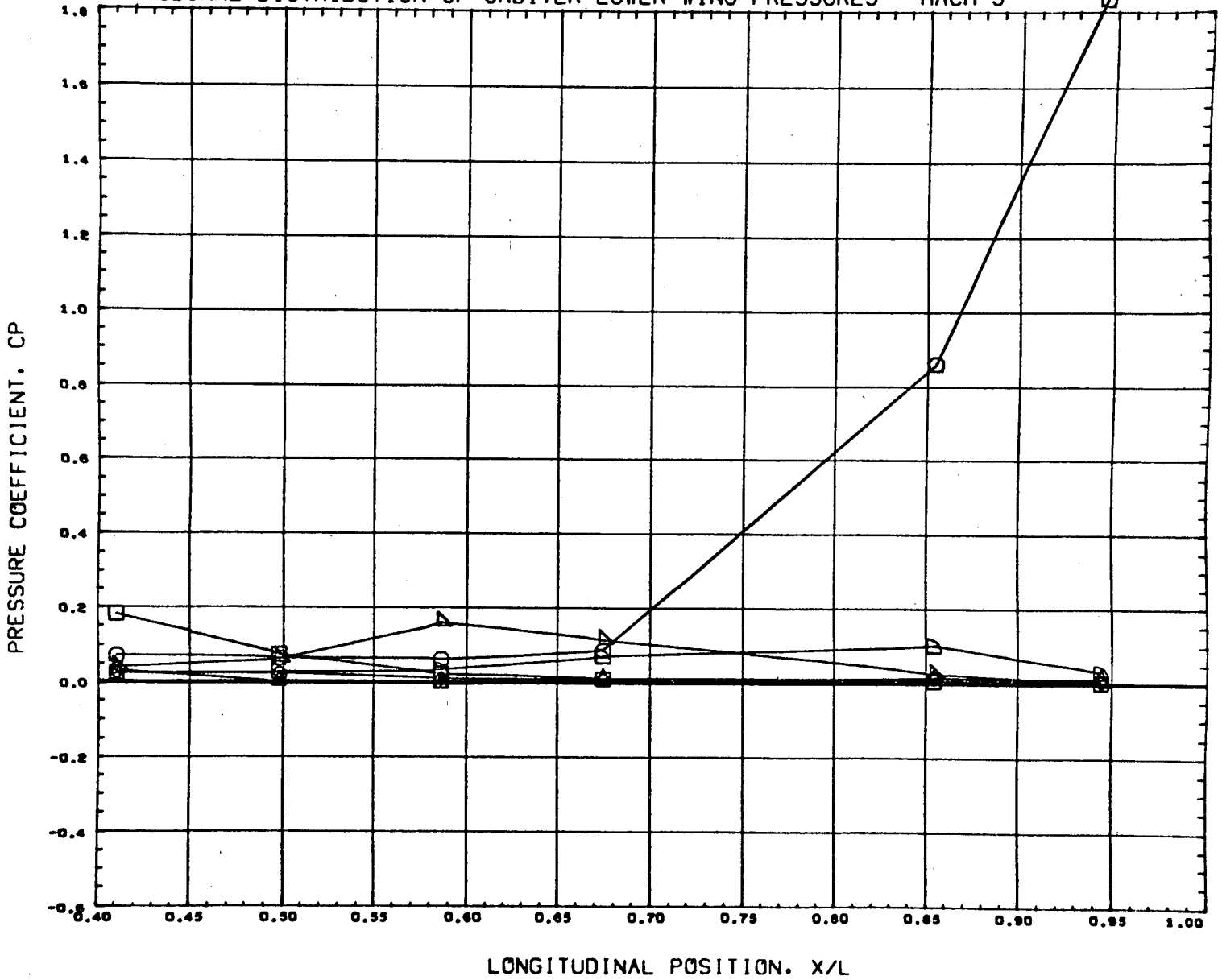
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.736	0.120
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

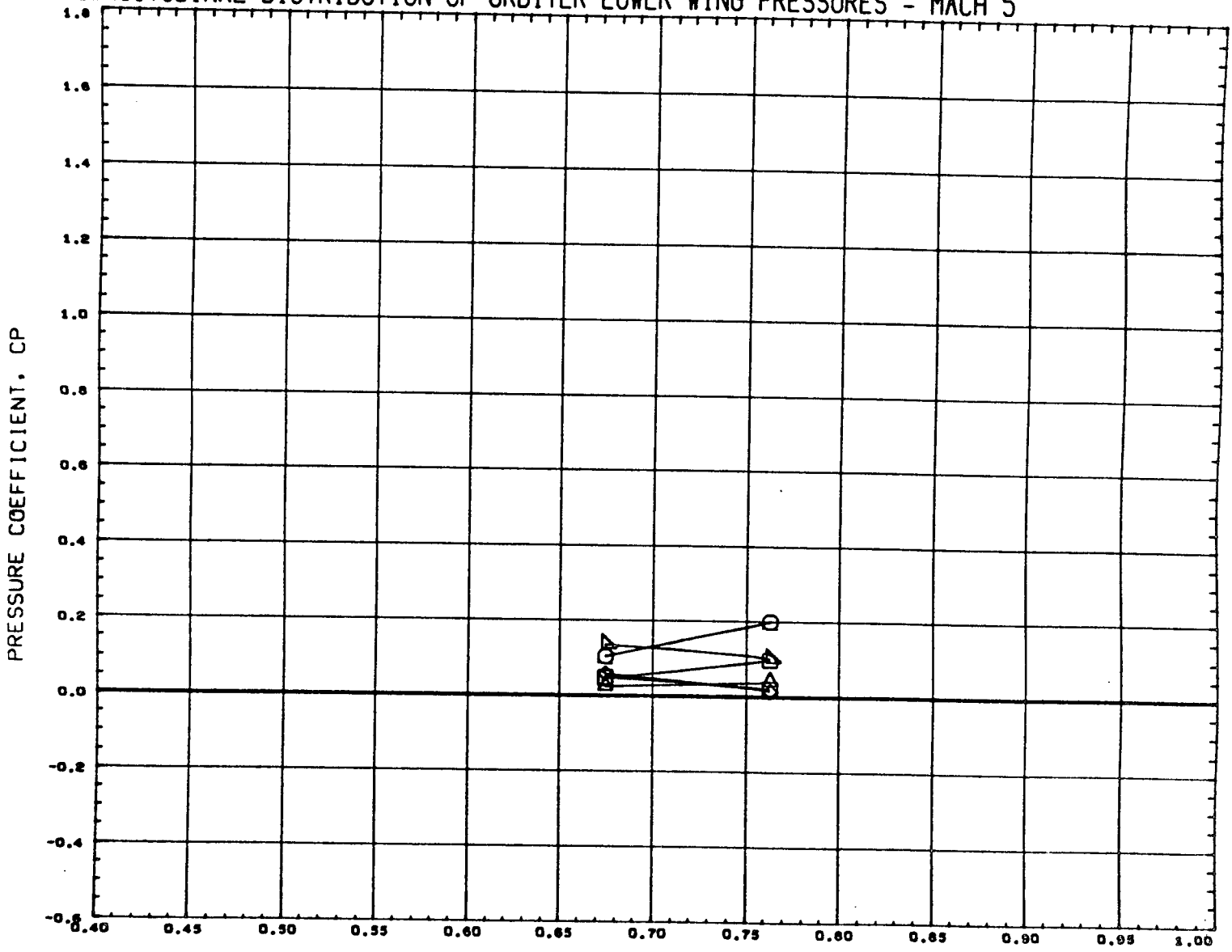


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.151
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◻	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



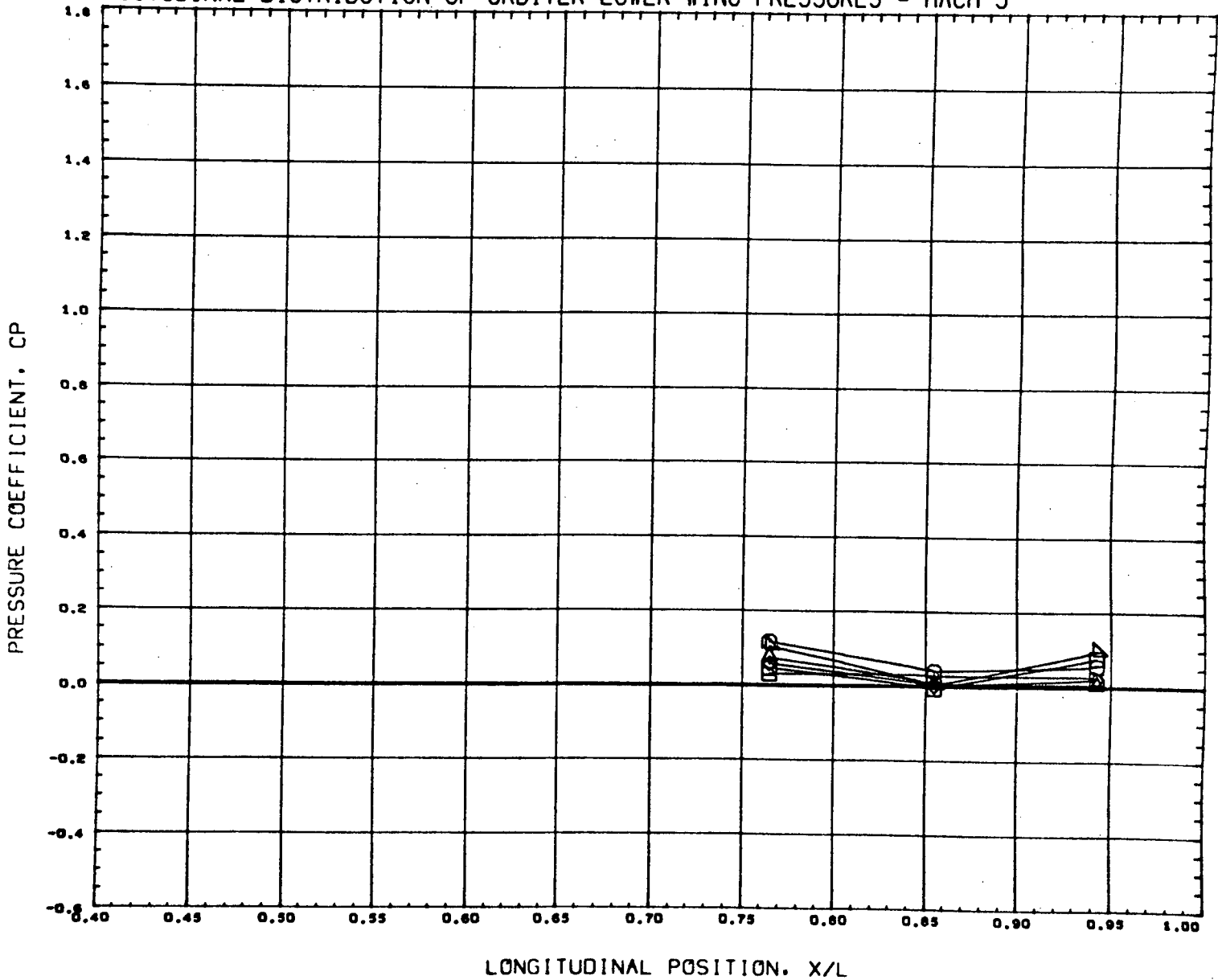
SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.151
◇	0.143		
□	0.020		
▽	0.103		
◇	0.227		
□	0.350		

REFERENCE FILE

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES		
ALPHAB	0.039	MACH 4.940
ALPHA I	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

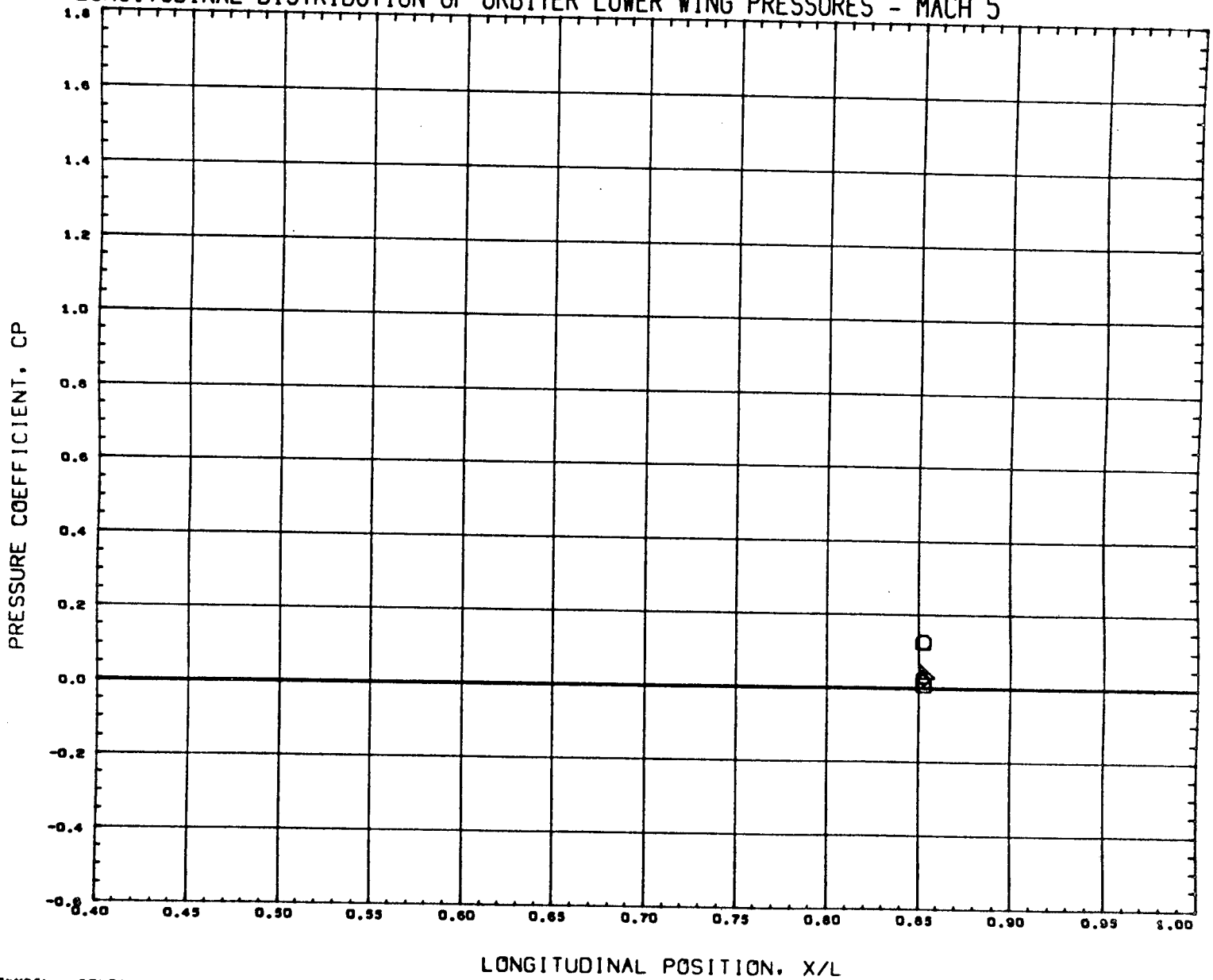


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.569	0.191
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

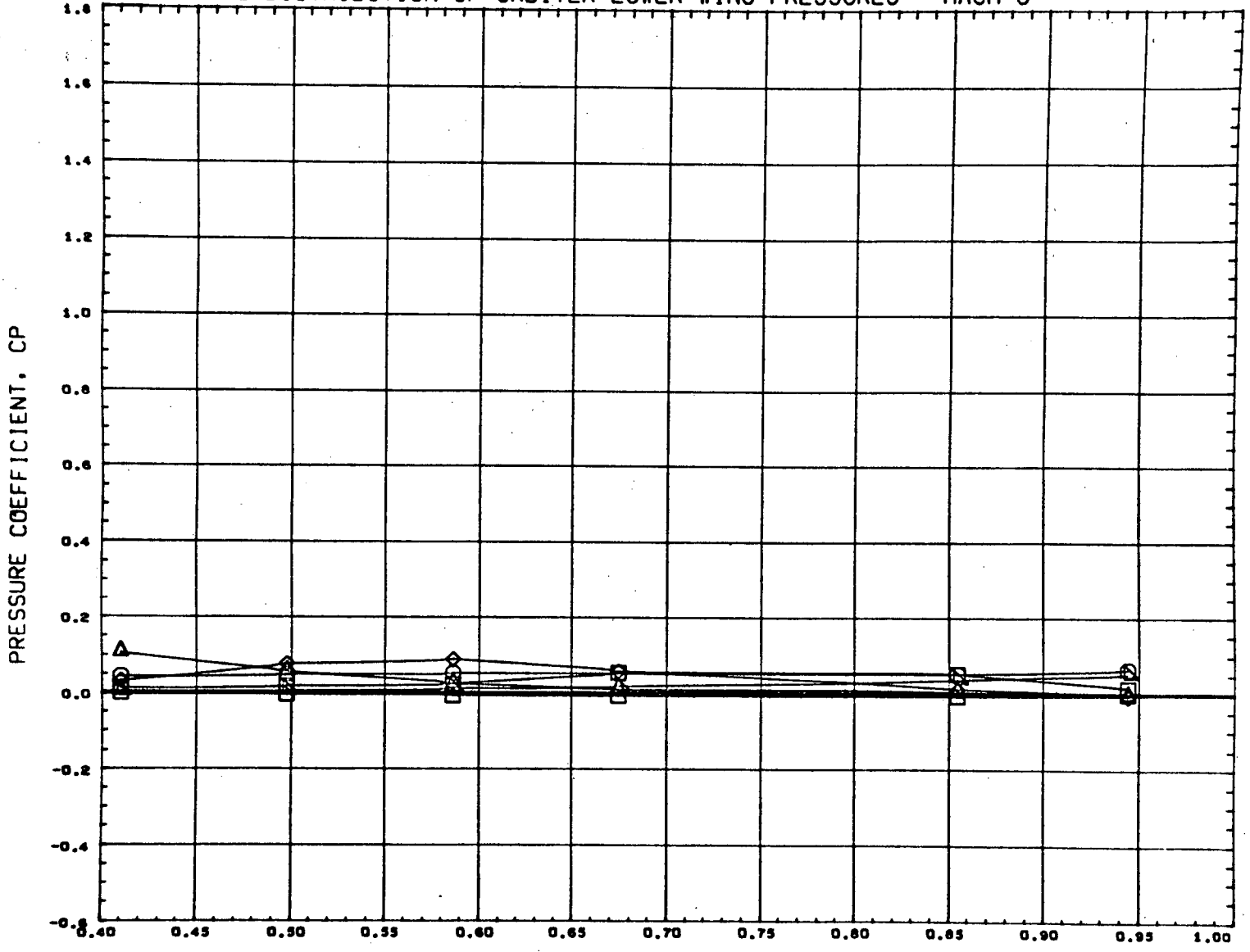
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.738	0.131
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

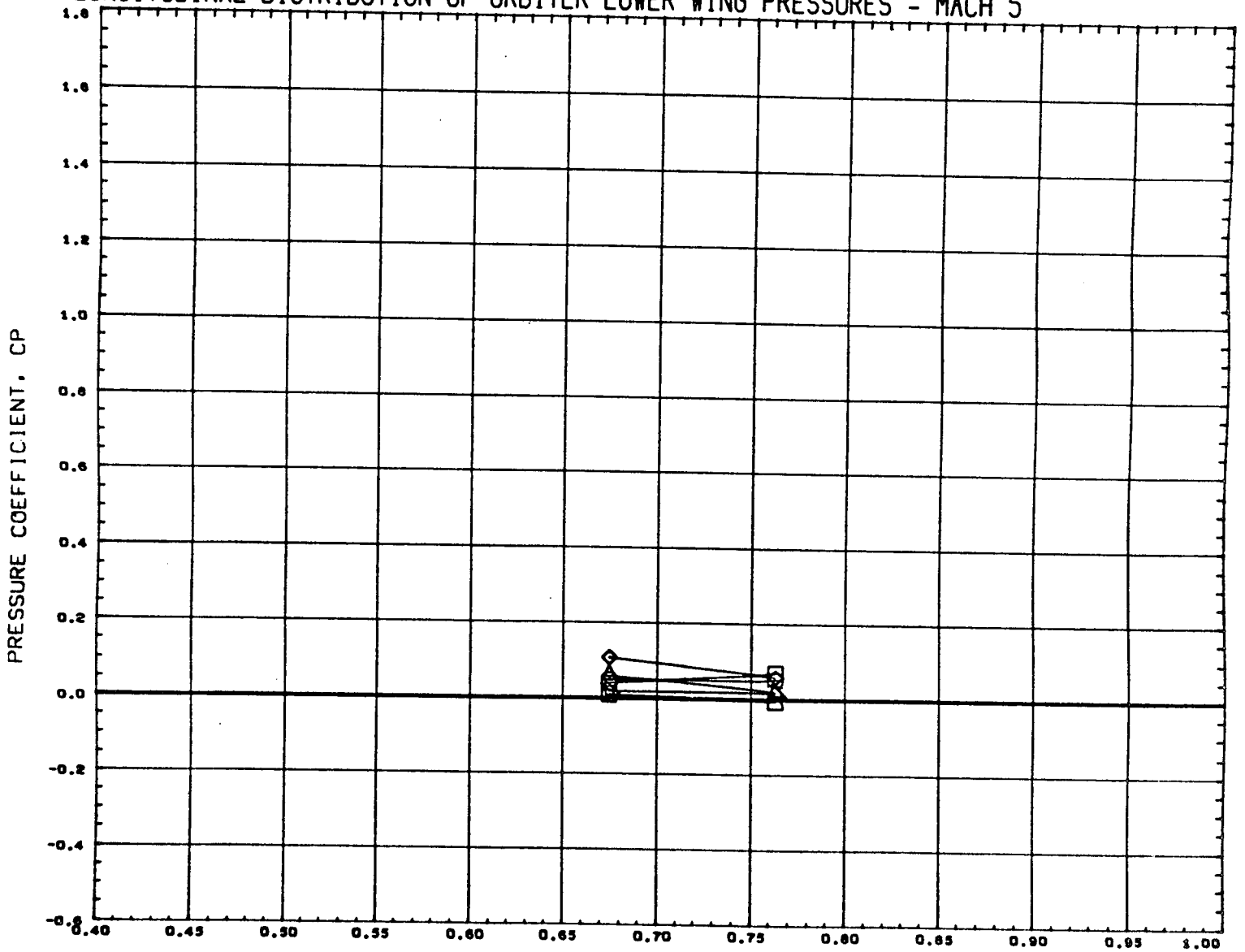


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.390	0.230	0.228
○	0.143		
◇	0.020		
□	0.103		
▣	0.227		
◻	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	90.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

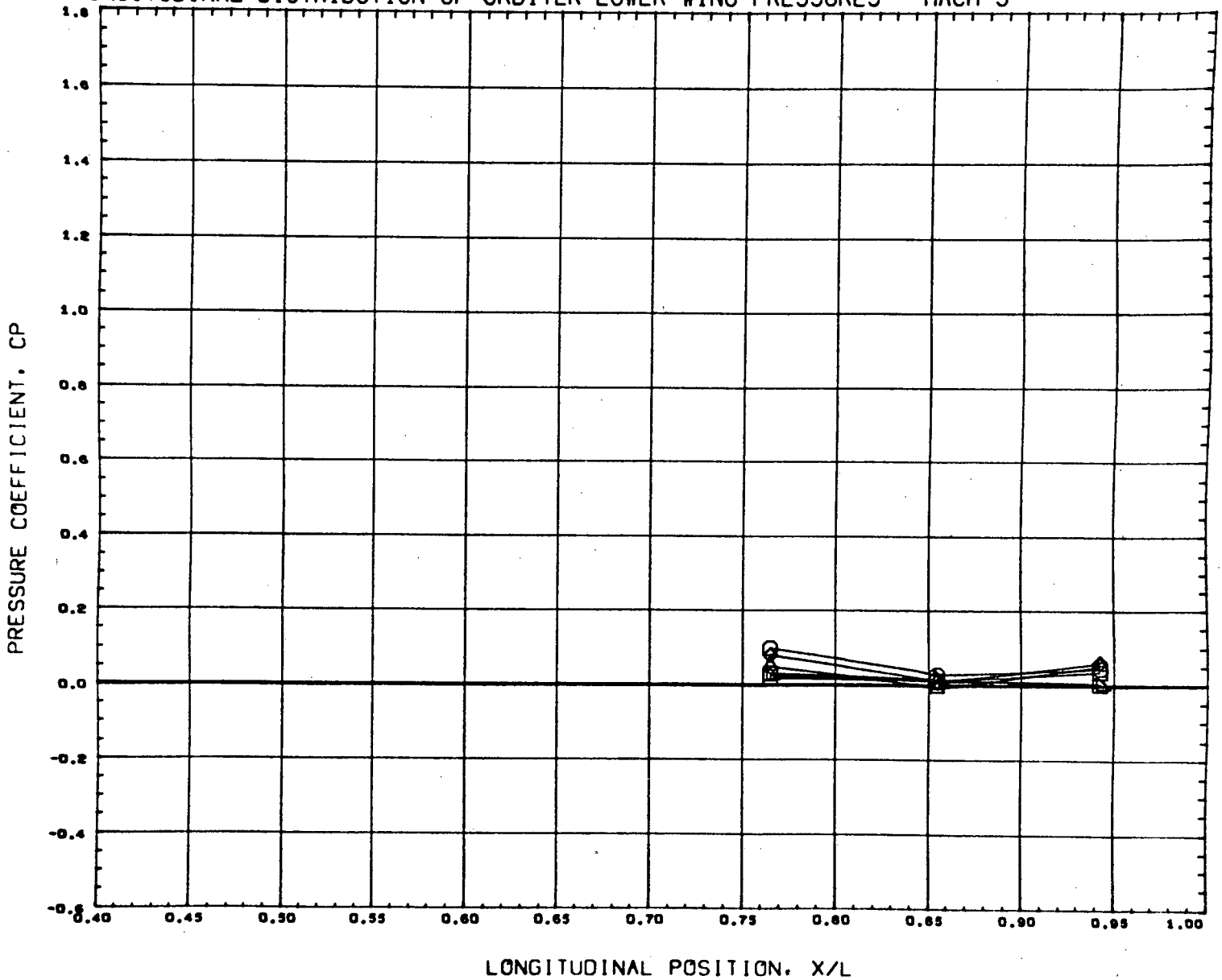
SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.228
△	0.143		
◇	0.020		
□	0.103		
◇	0.227		
□	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

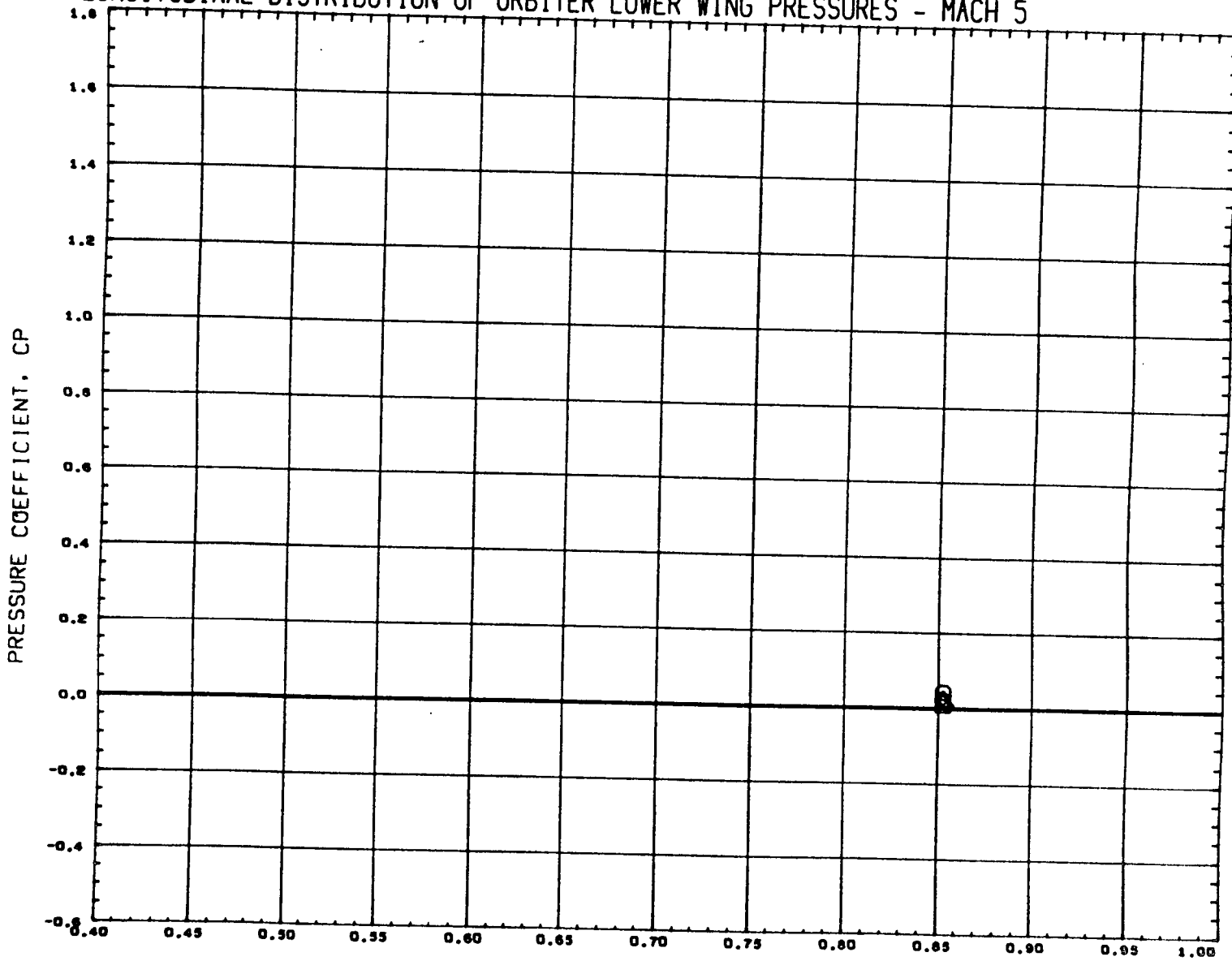


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.566	0.226
□	0.143		
△	0.020		
◇	0.103		
▽	0.227		
◻	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHAI	0.000	ORSPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



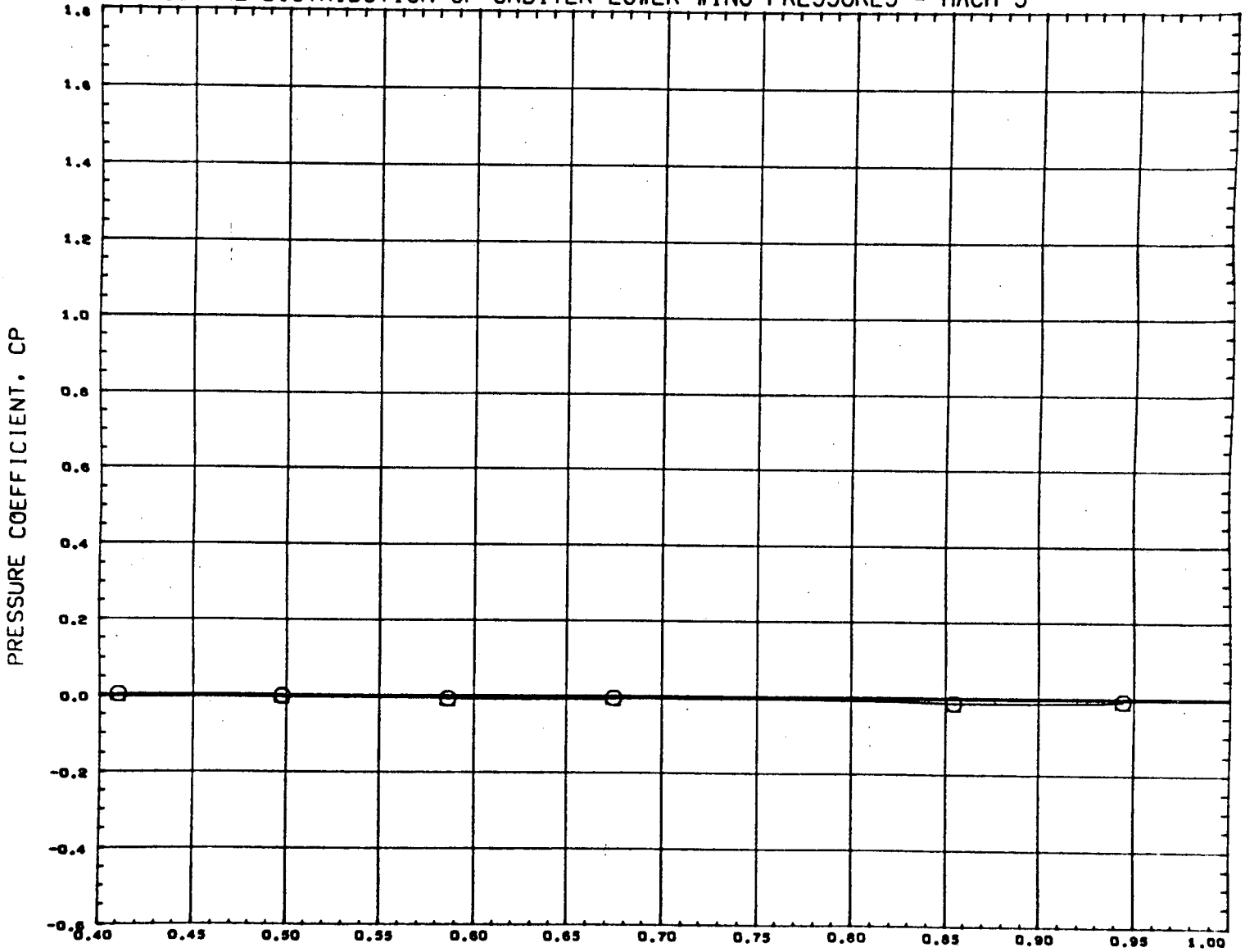
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.739	0.228
◇	0.143		
△	0.020		
○	0.103		
◇	0.227		
□	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	30.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.908

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

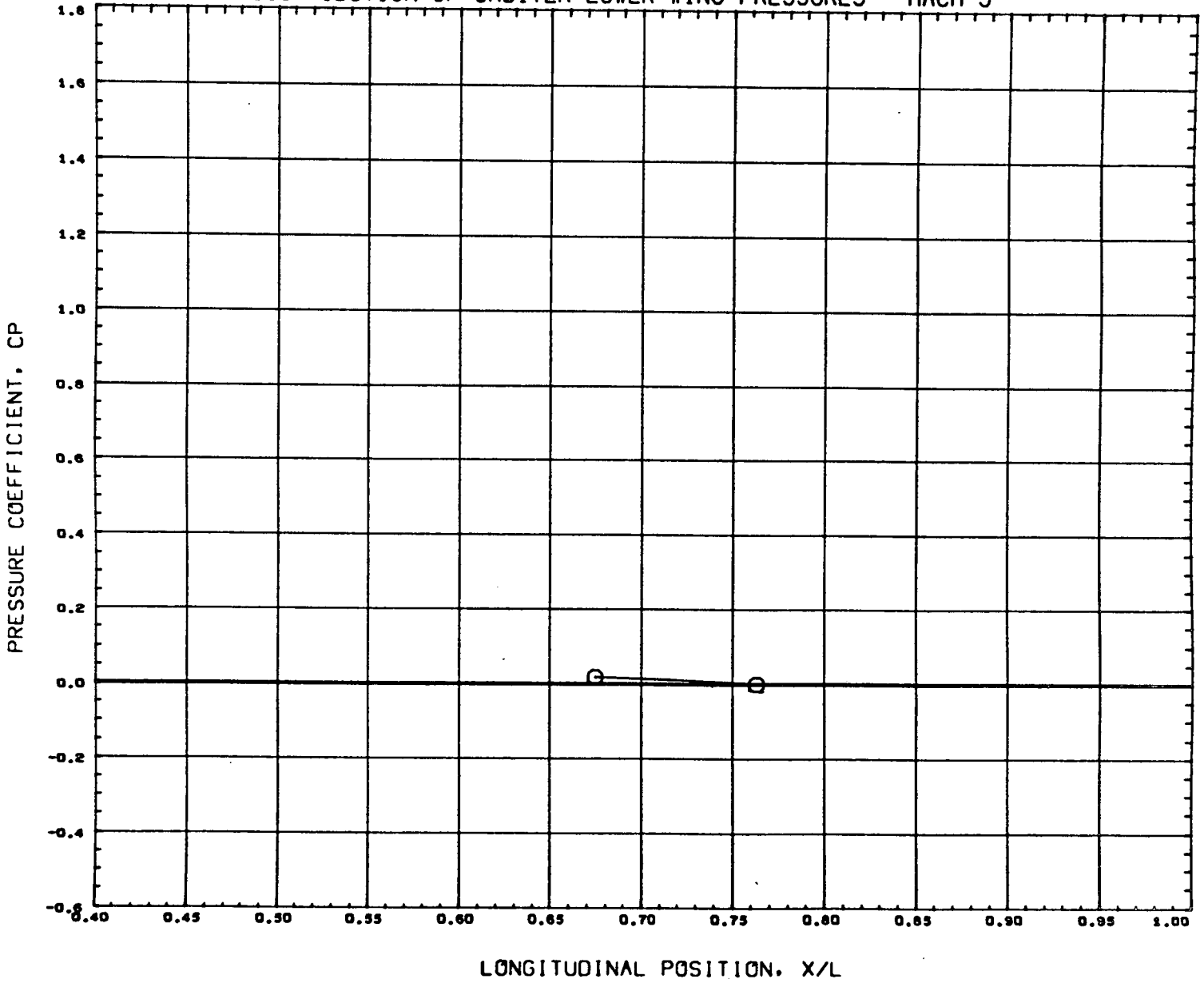
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.908

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

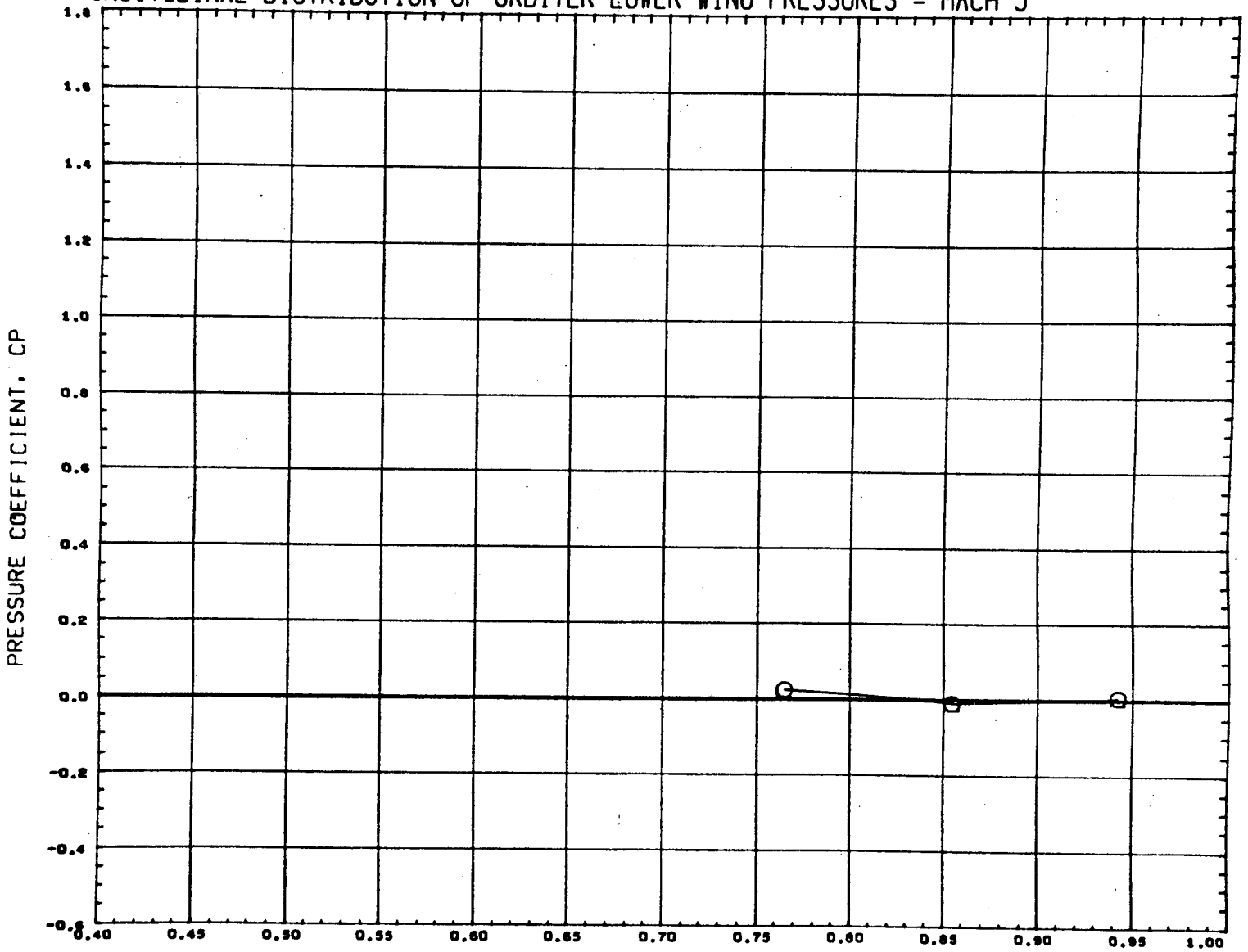
REFERENCE FILE

AEC V A1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/Z	DELTA Z
○	0.120	0.569	0.908

PARAMETRIC VALUES		
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ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

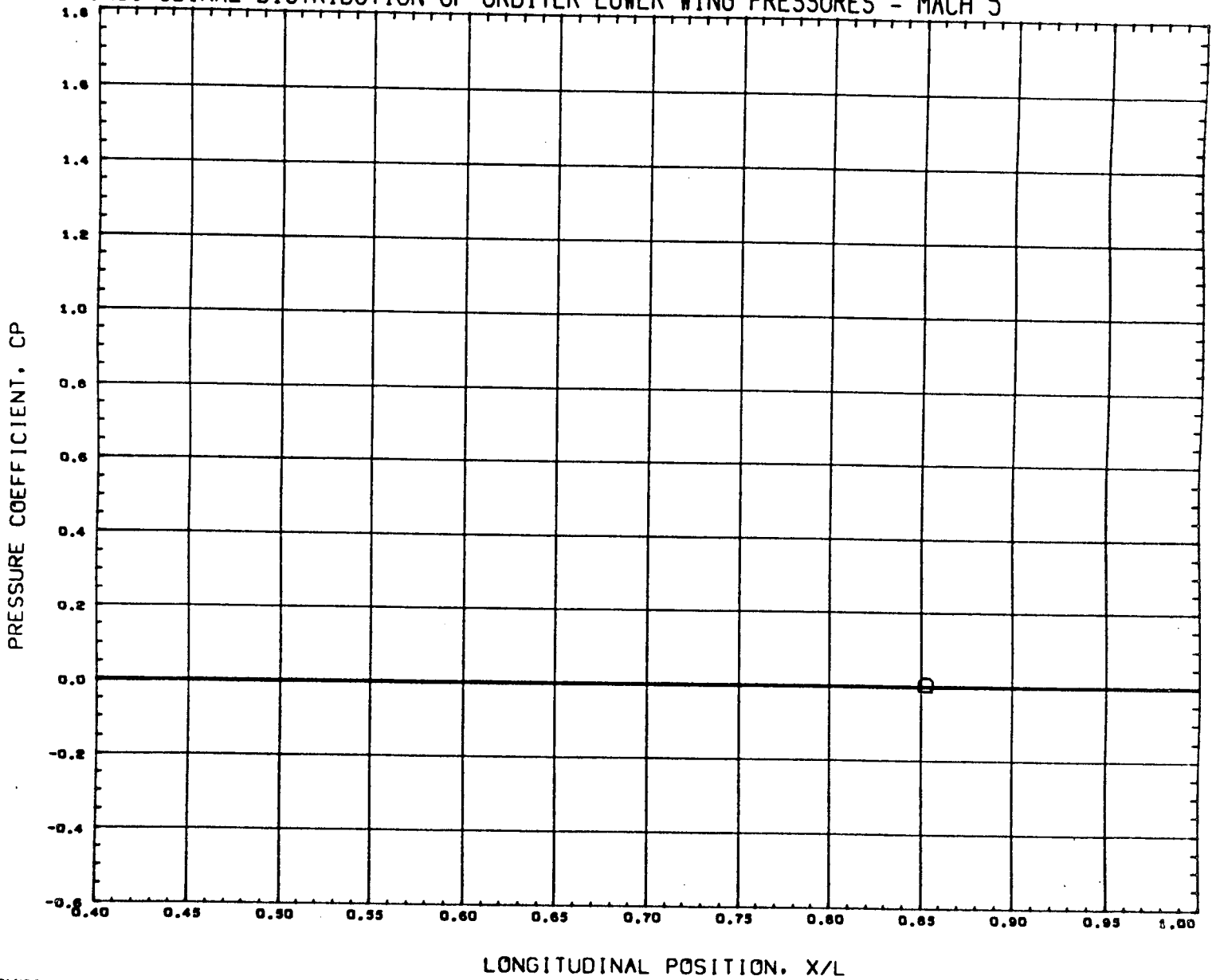
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
□	0.520	0.738	0.908

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

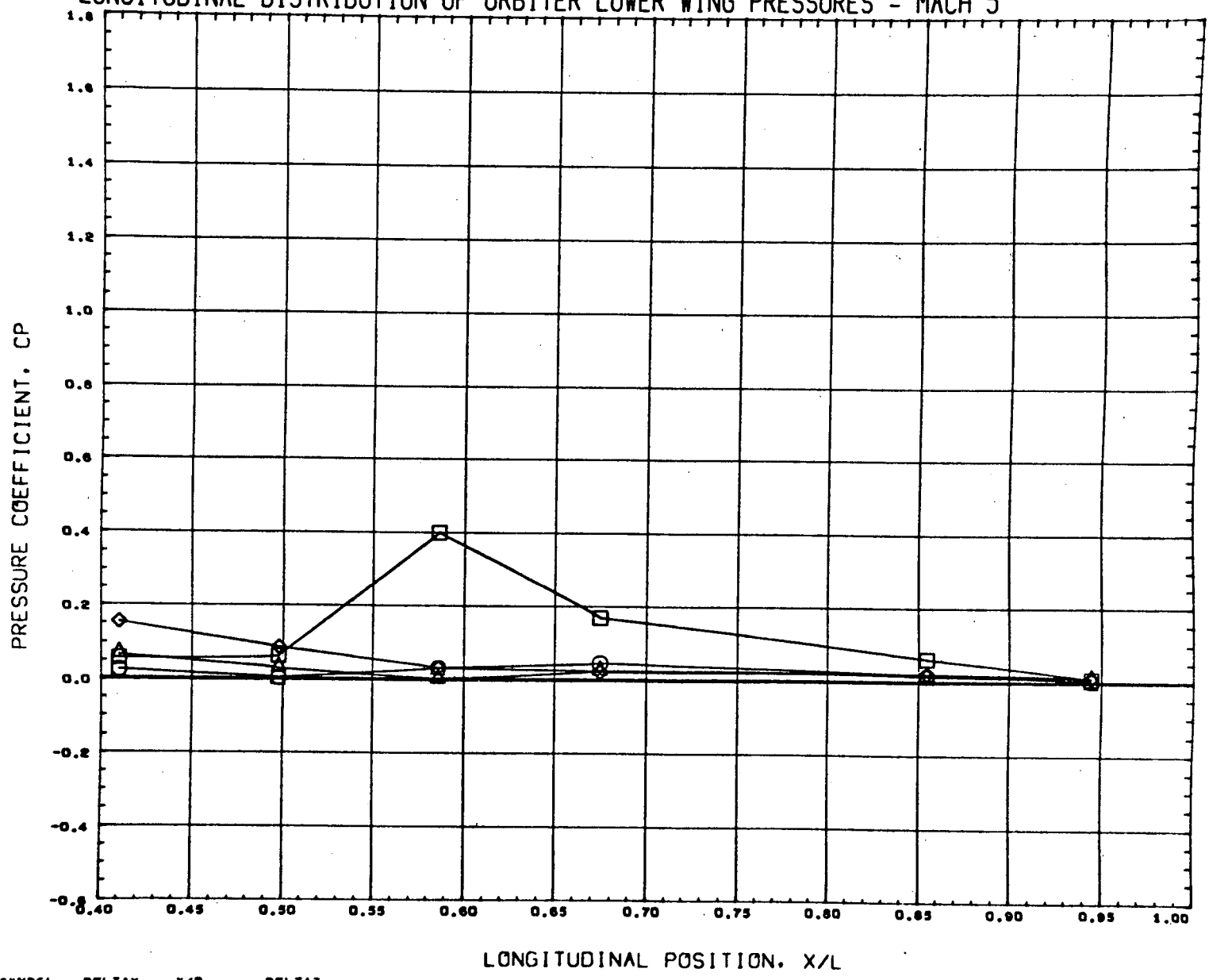
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8533•

PAGE 696

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



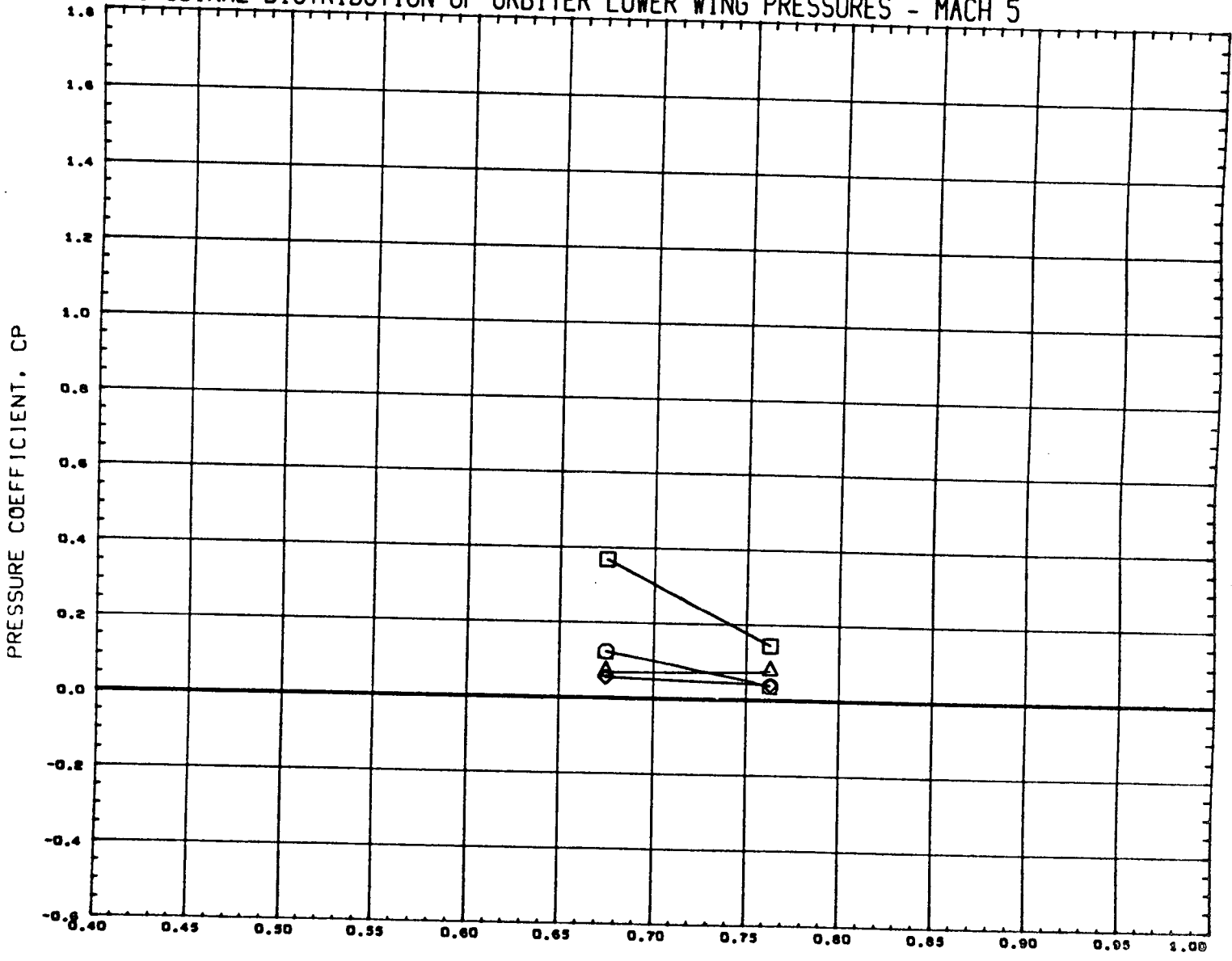
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA I	0.000	ORSPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

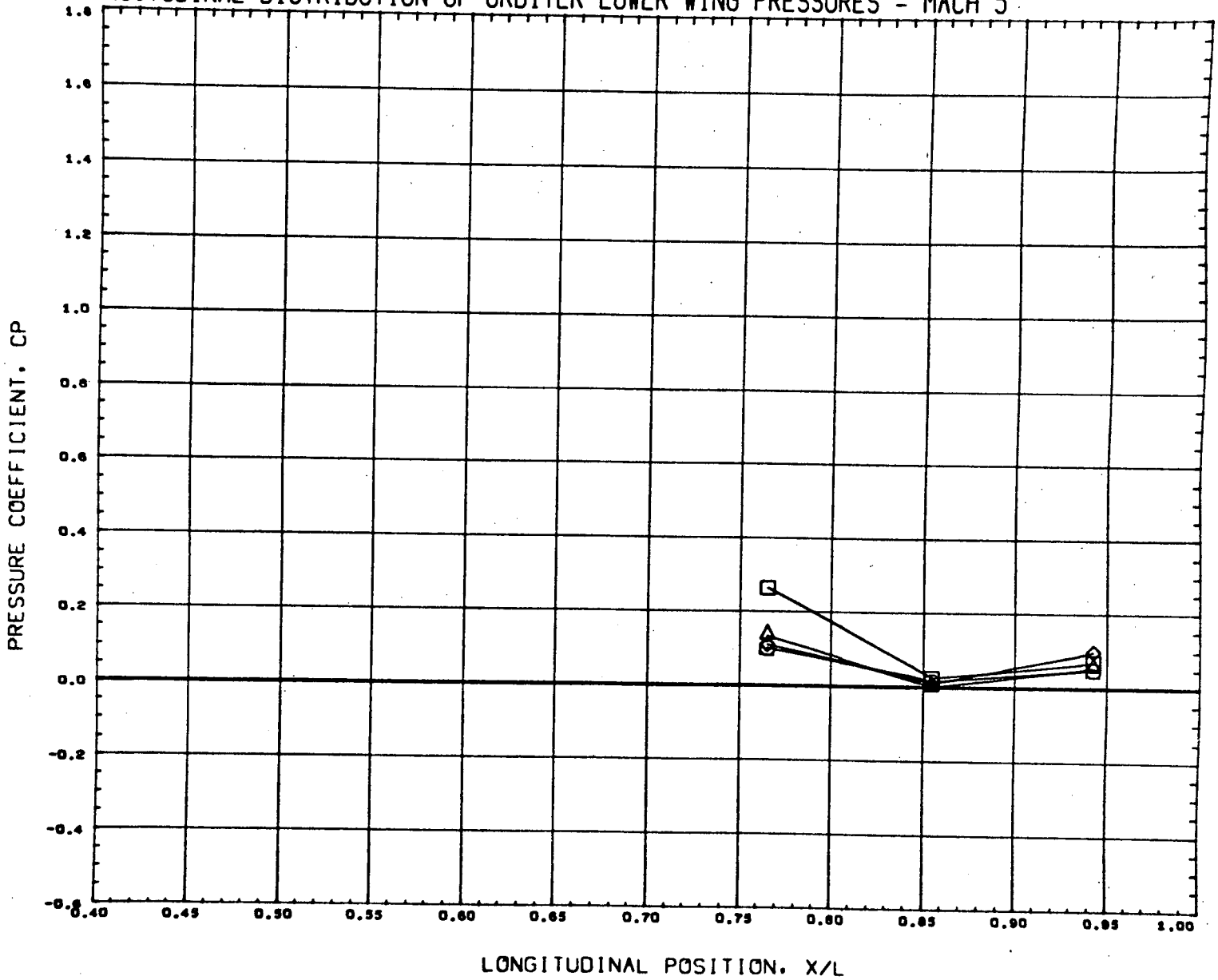


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

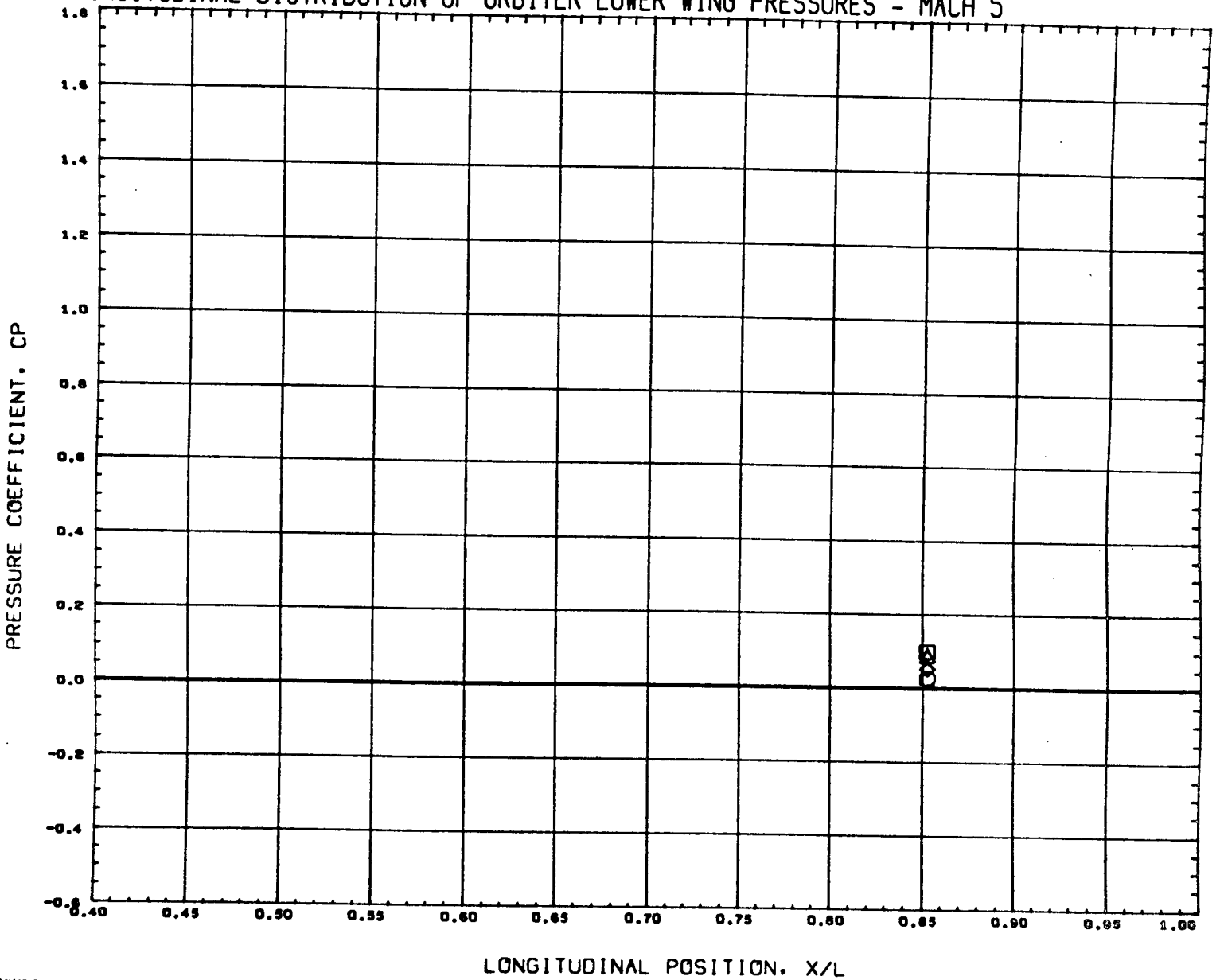


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.368	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.738	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

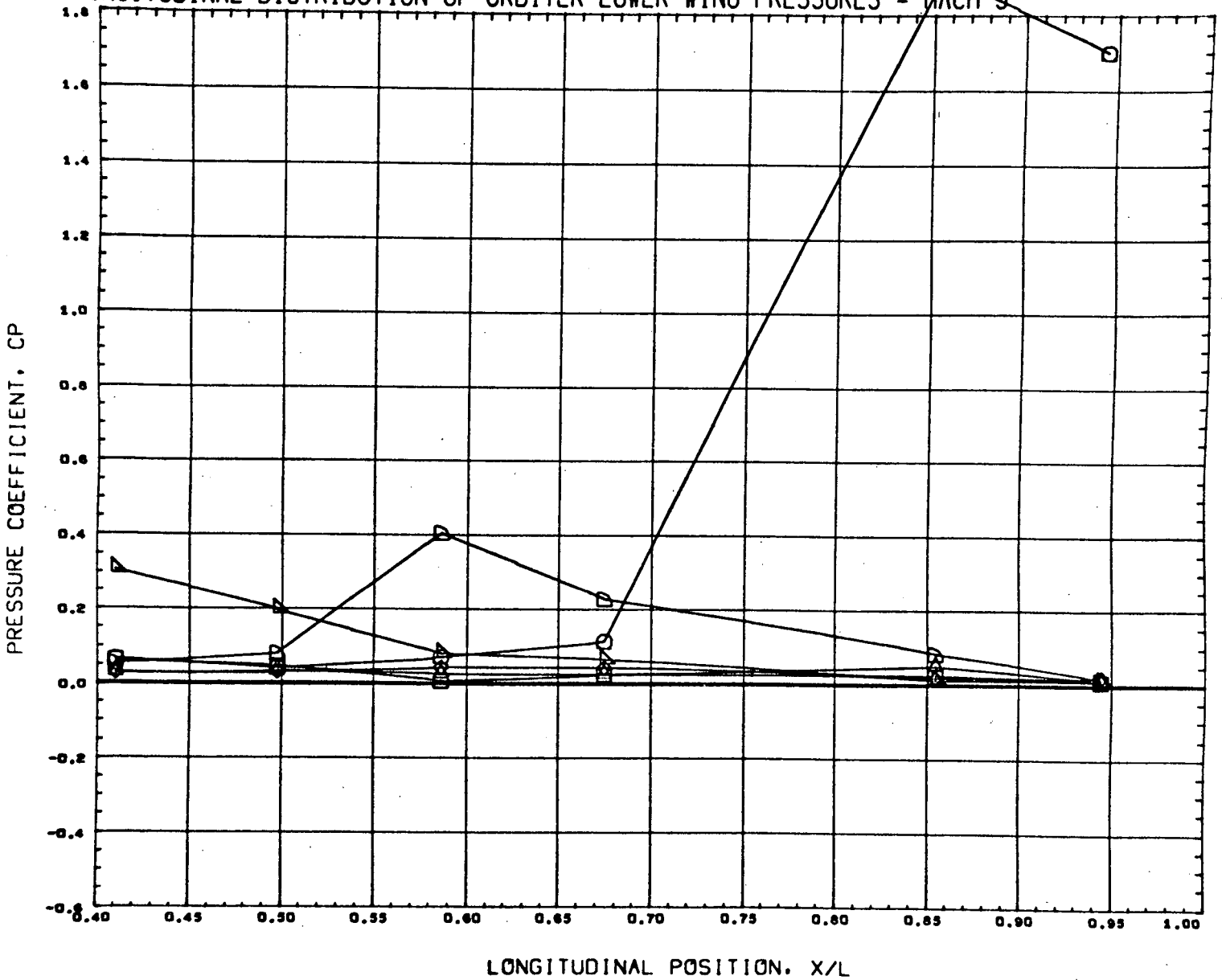
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

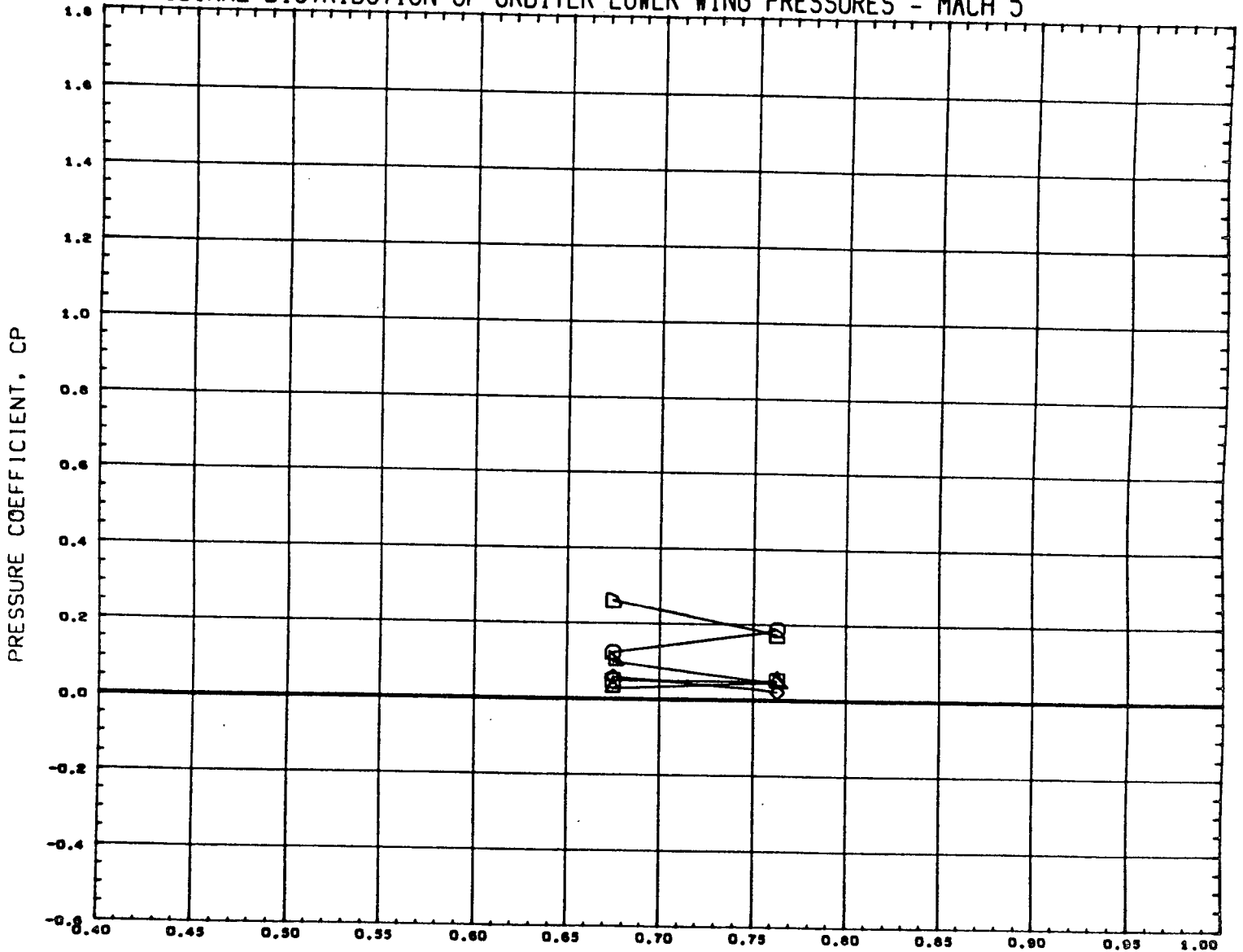


SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.230	0.120
△	0.143		
◇	0.020		
○	0.103		
▽	0.227		
□	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	5.067	MACH 4.940
ALPHAI	0.000	ORBPOW 100,000
BSTPOW	50,000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



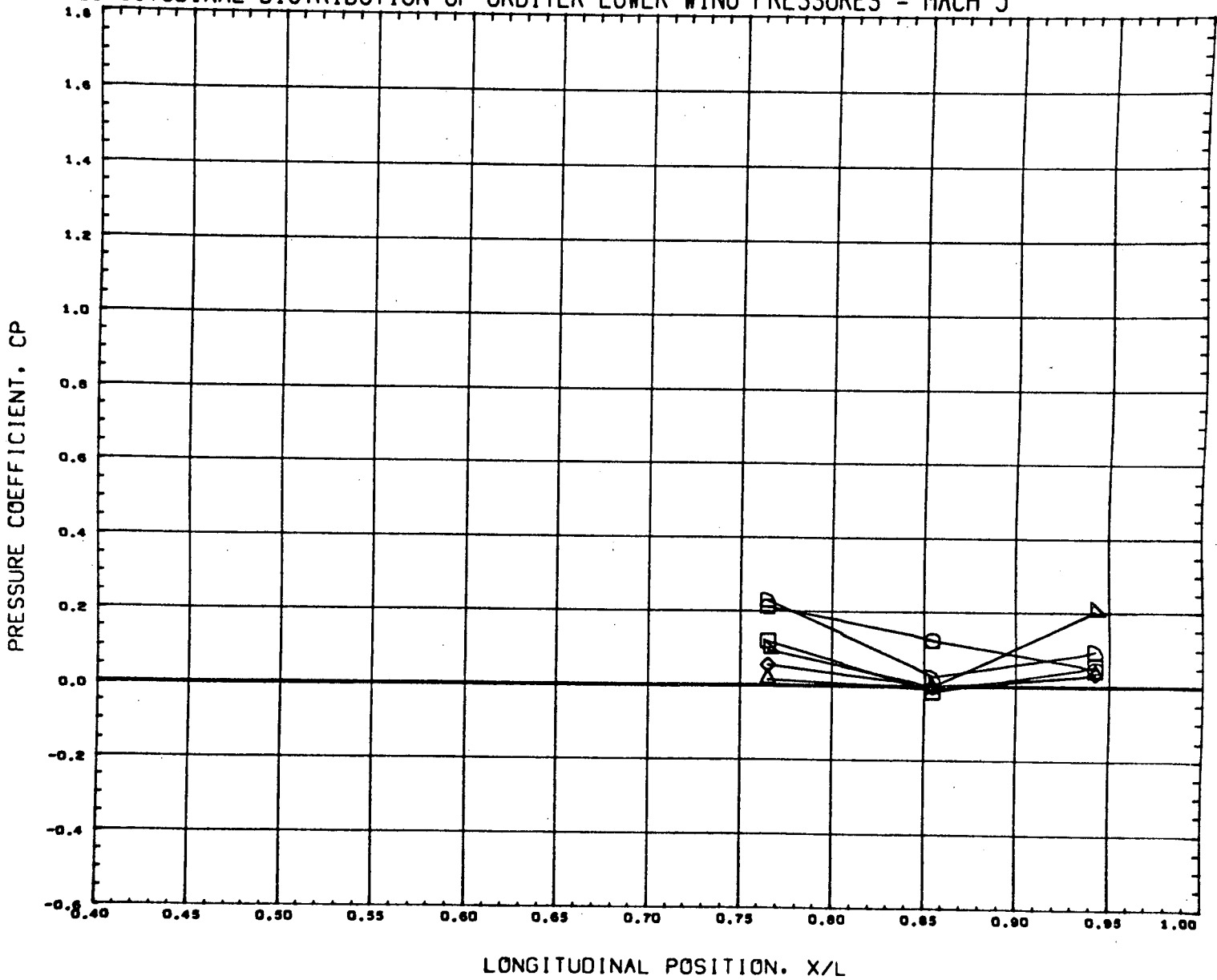
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.399	0.120
○	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	90.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



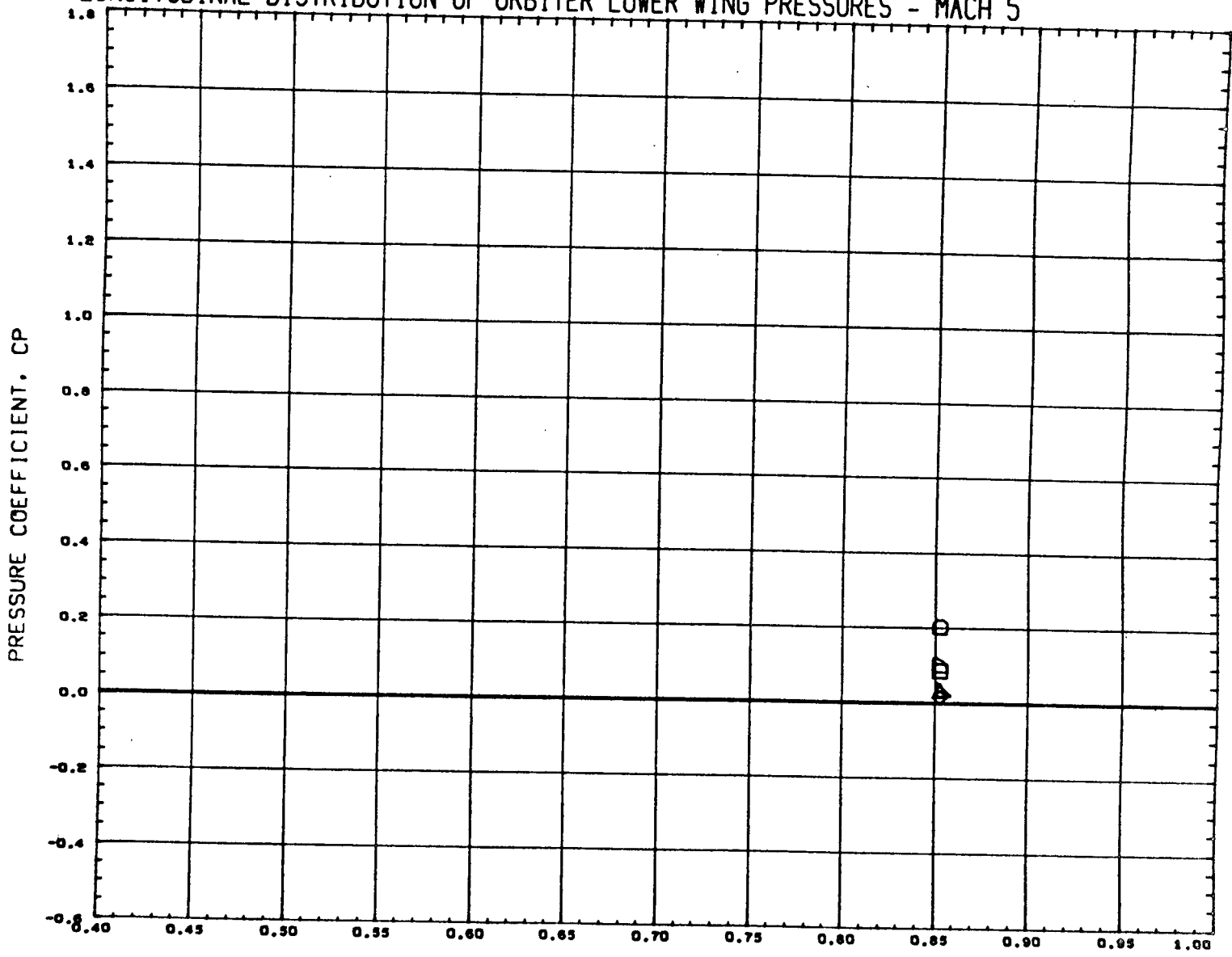
LONGITUDINAL POSITION. X/L

SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.568	0.120
◇	0.143		
○	0.020		
△	0.103		
▽	0.227		
◇	0.330		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	30.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



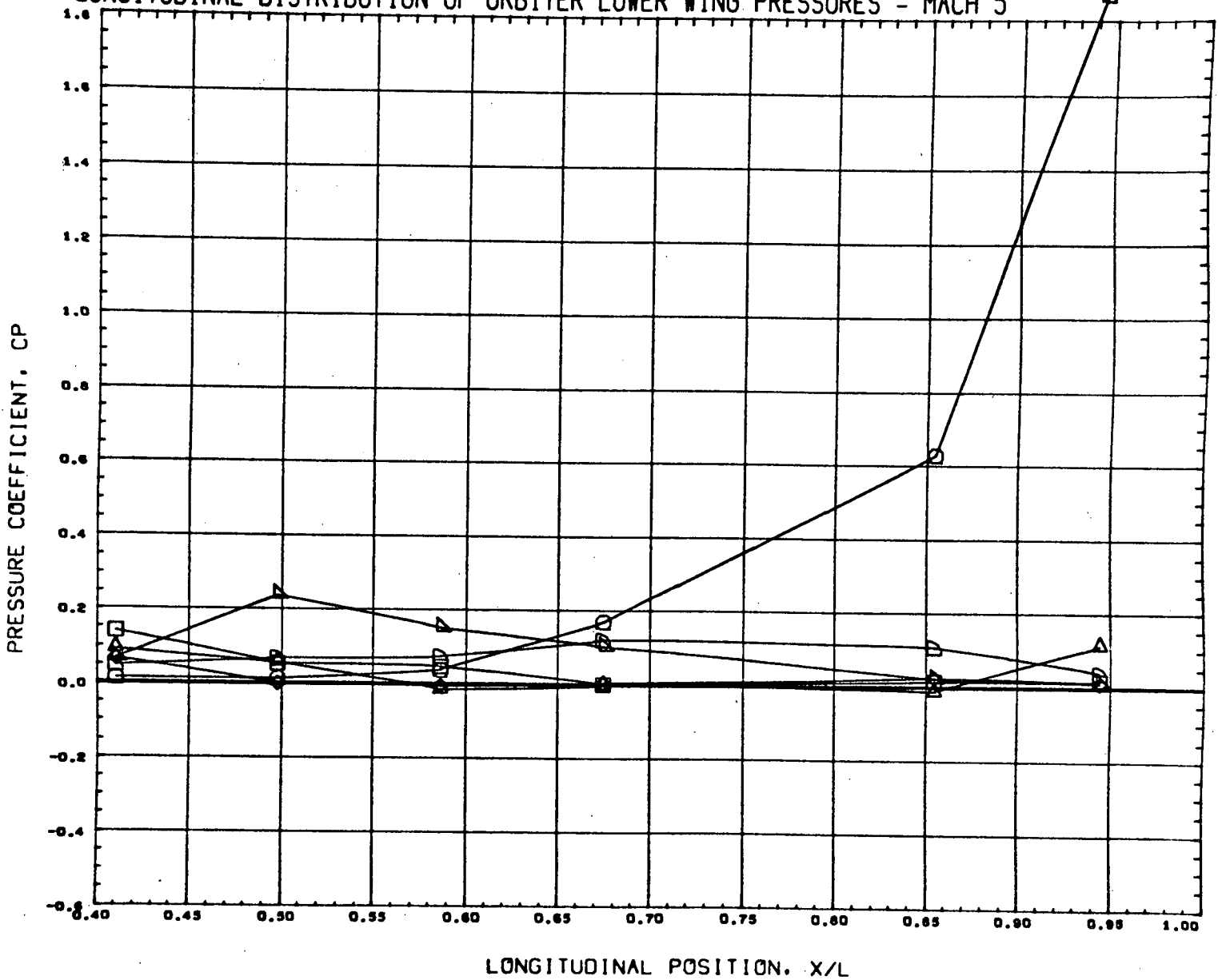
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.739	0.120
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

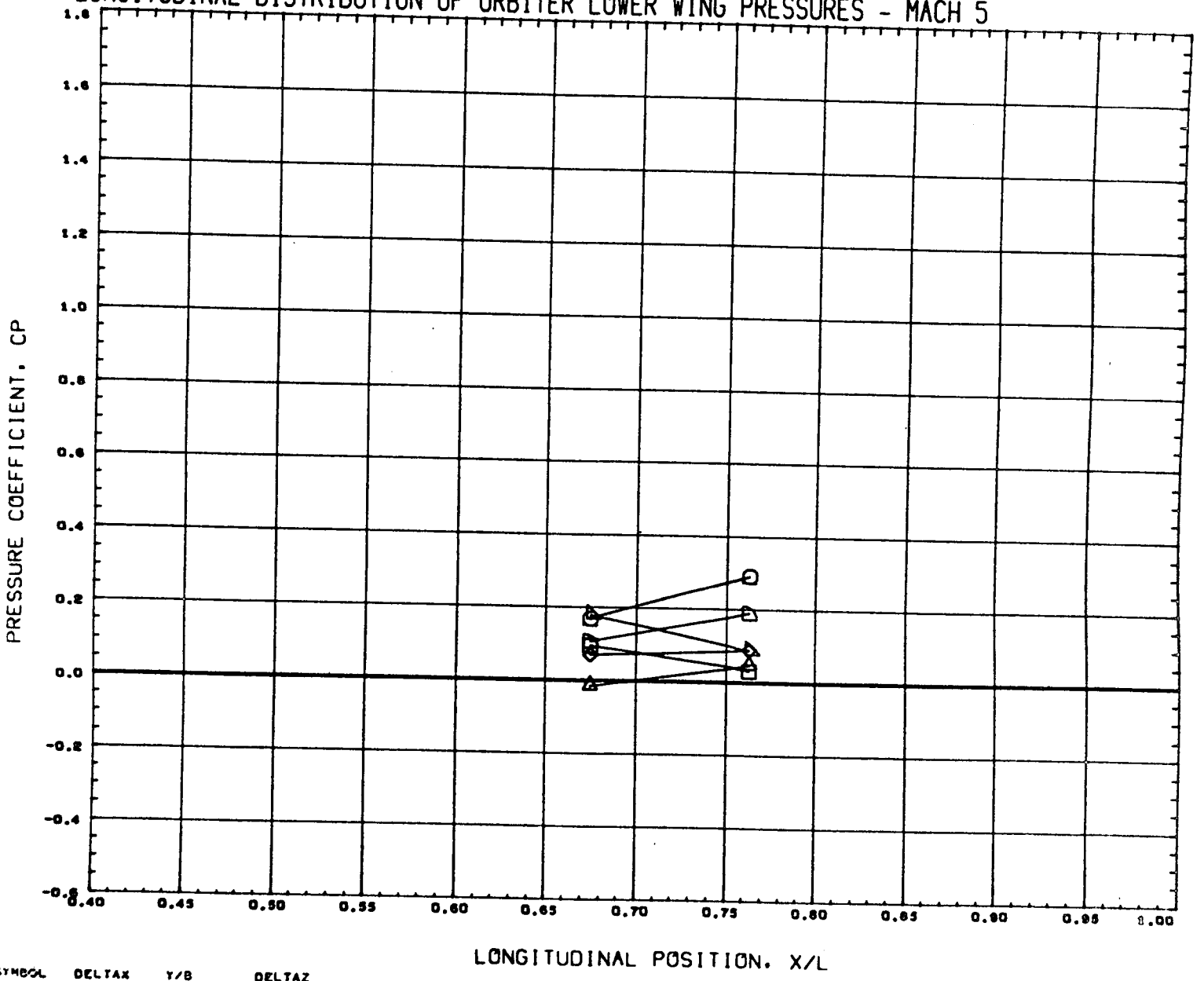


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.151
□	0.143		
◇	0.020		
△	0.103		
▽	0.227		
◻	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

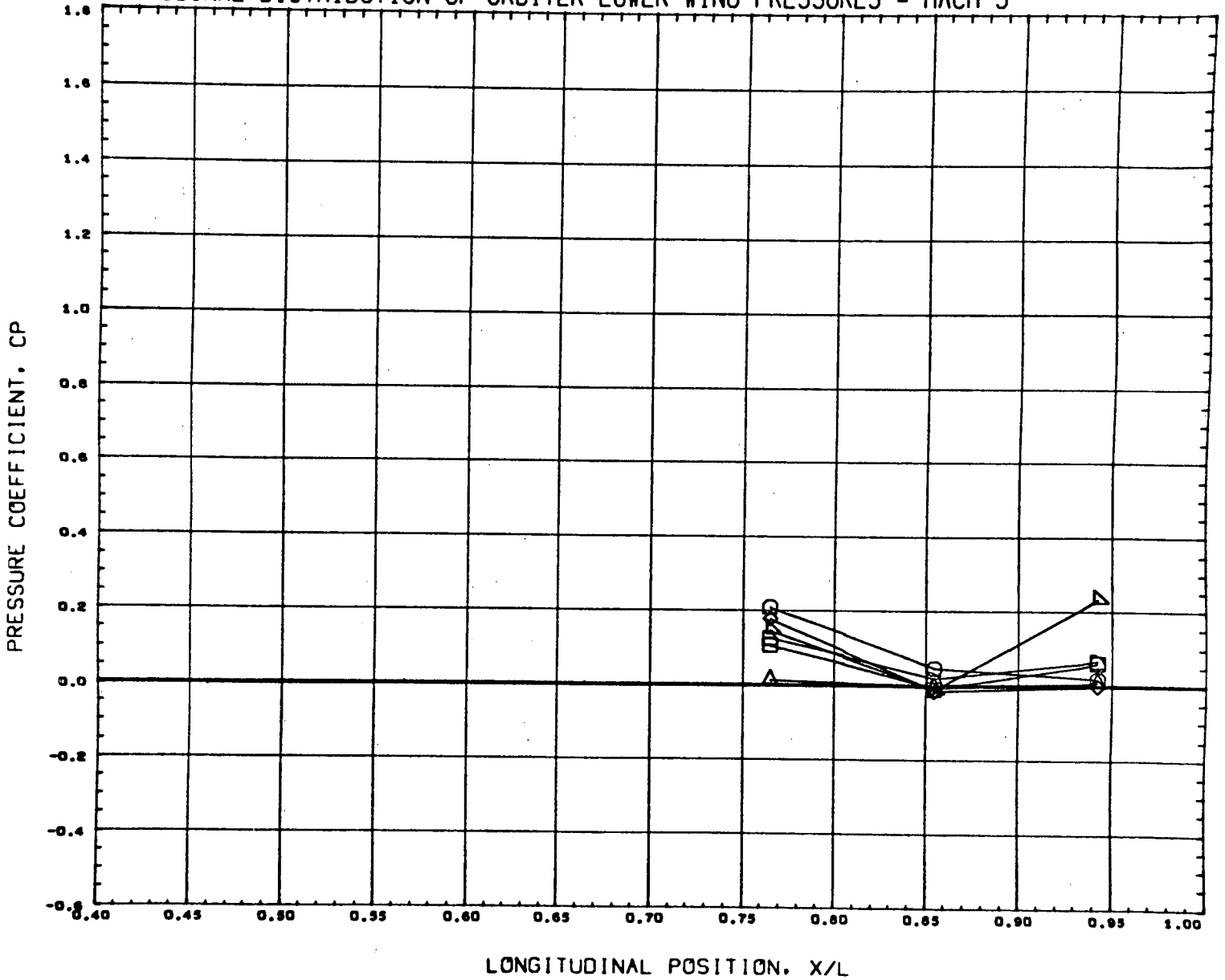


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.151
□	0.143		
◇	0.020		
△	0.103		
▽	0.227		
◇	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

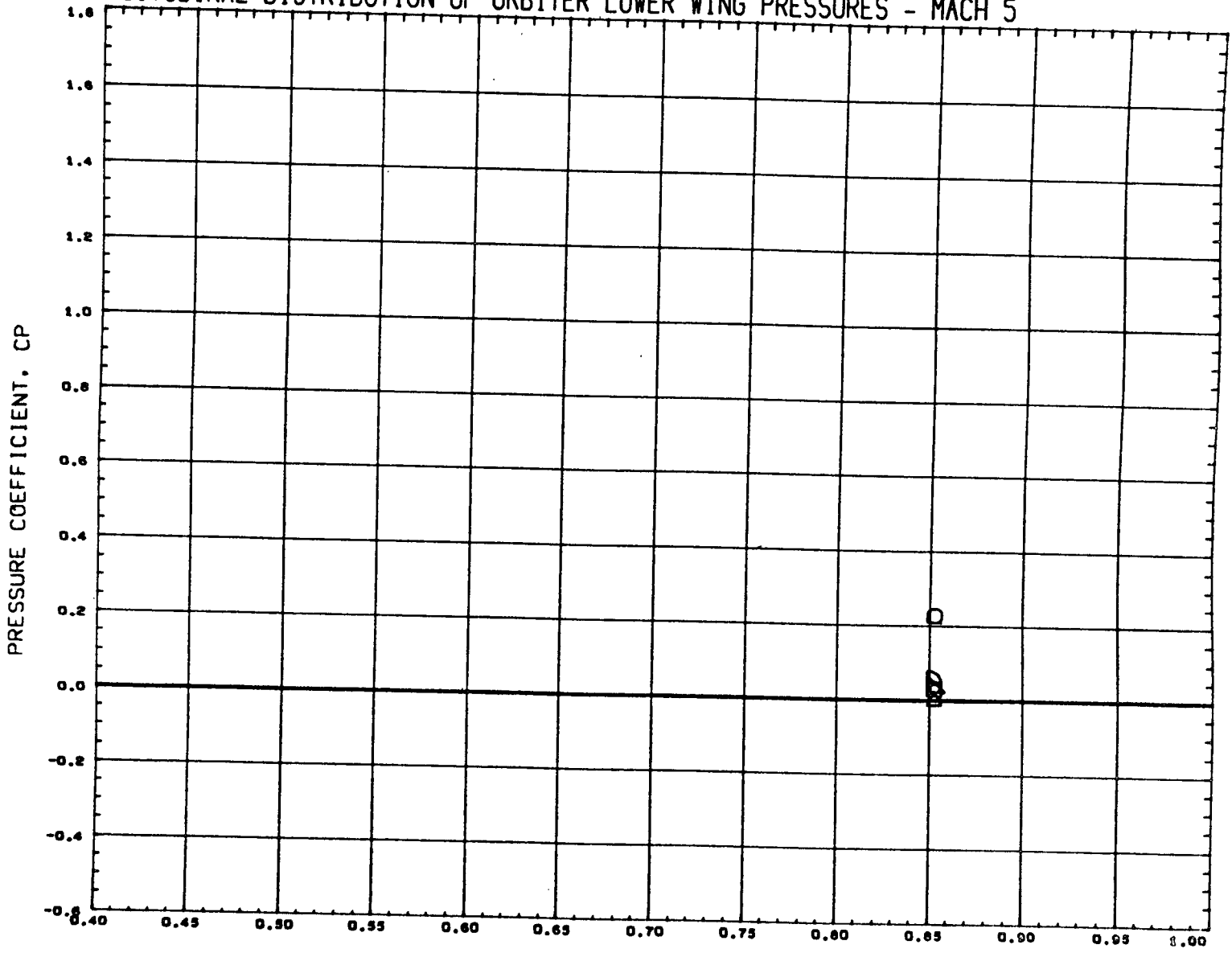


SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.366	0.151
◇	0.143		
△	0.020		
○	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHA B	5.067	MACH 4.940
ALPHA I	0.000	ORBPOW 100.000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



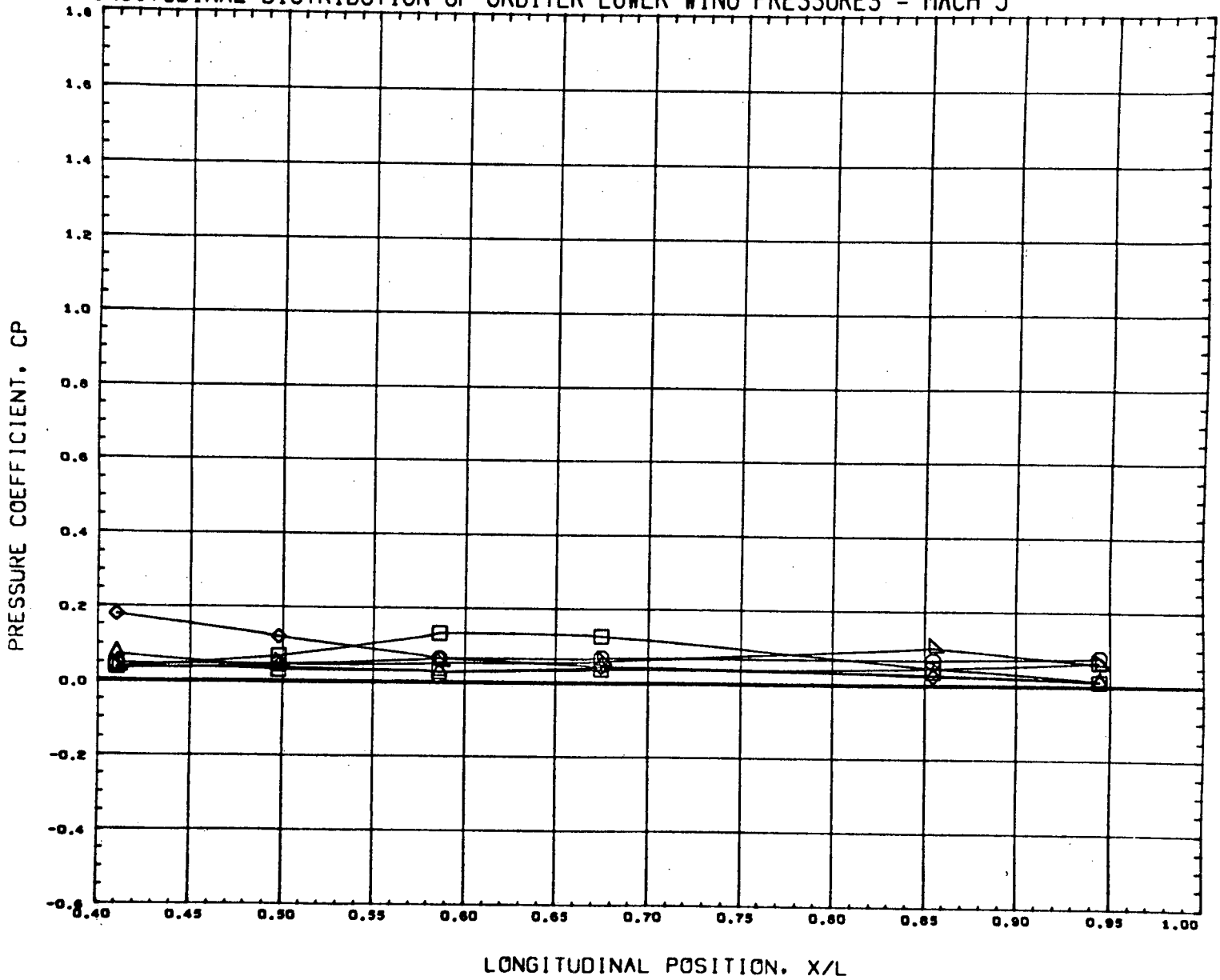
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.738	0.151
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	5.067	MACH 4.940
ALPHA1	0.000	ORBPOW 100.000
BSTPOW	50.000	

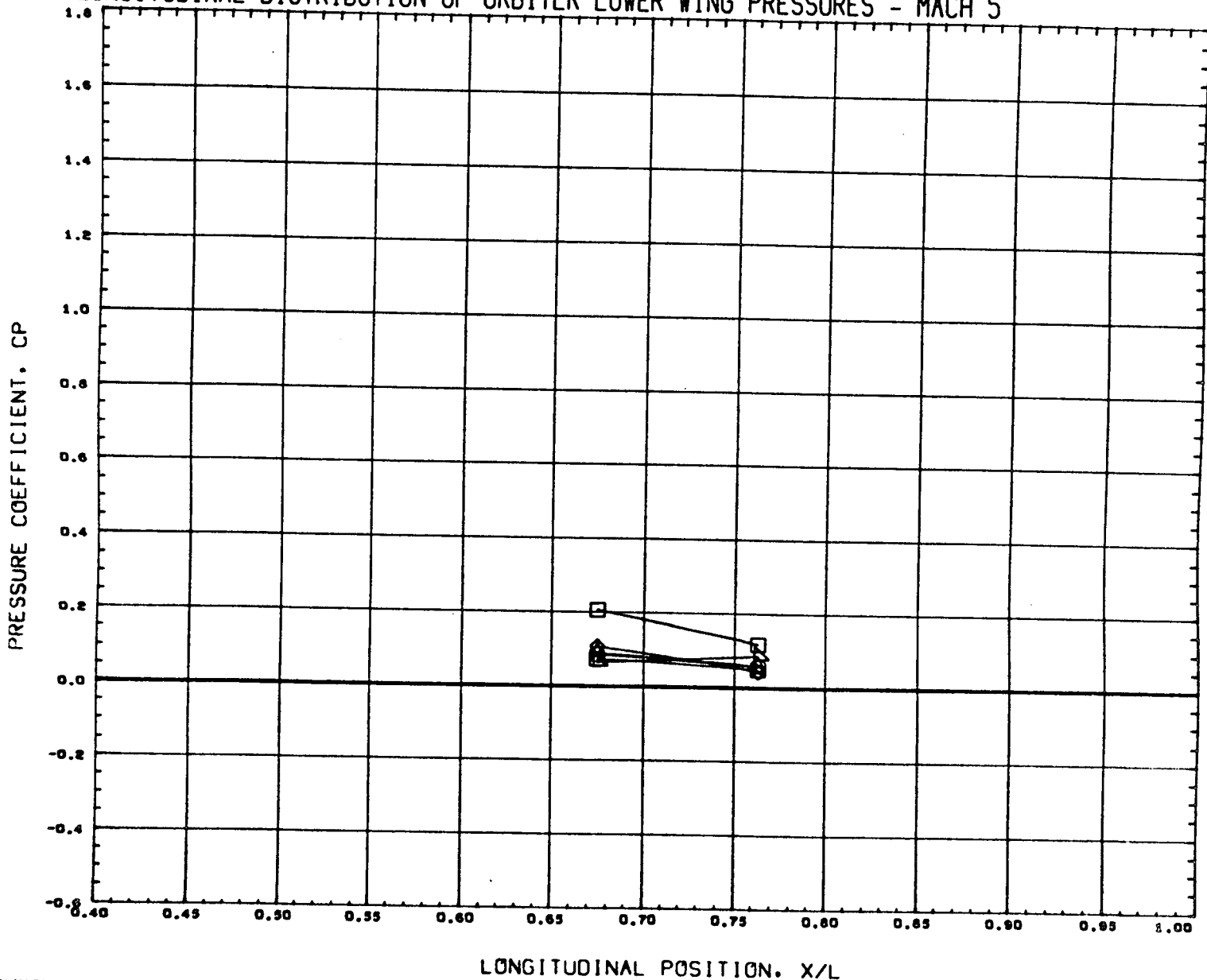
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
◇	0.390	0.230	0.228
△	0.143		
□	0.020		
○	0.103		
▽	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	90.000		

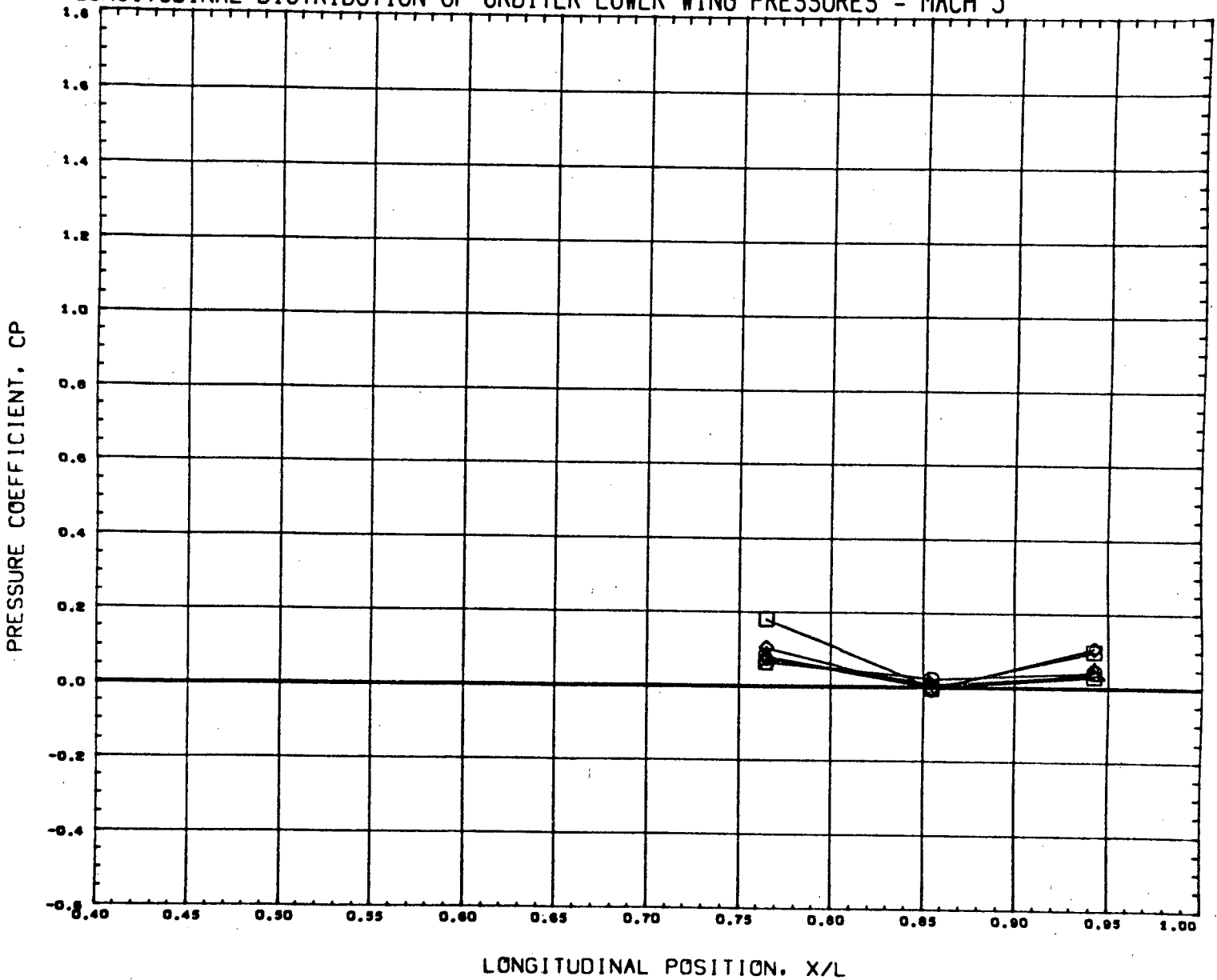
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.228
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES		
ALPHAB	5.067	MACH 4.940
ALPHA1	0.000	ORBPOW 100.000
BSTPOW	50.000	

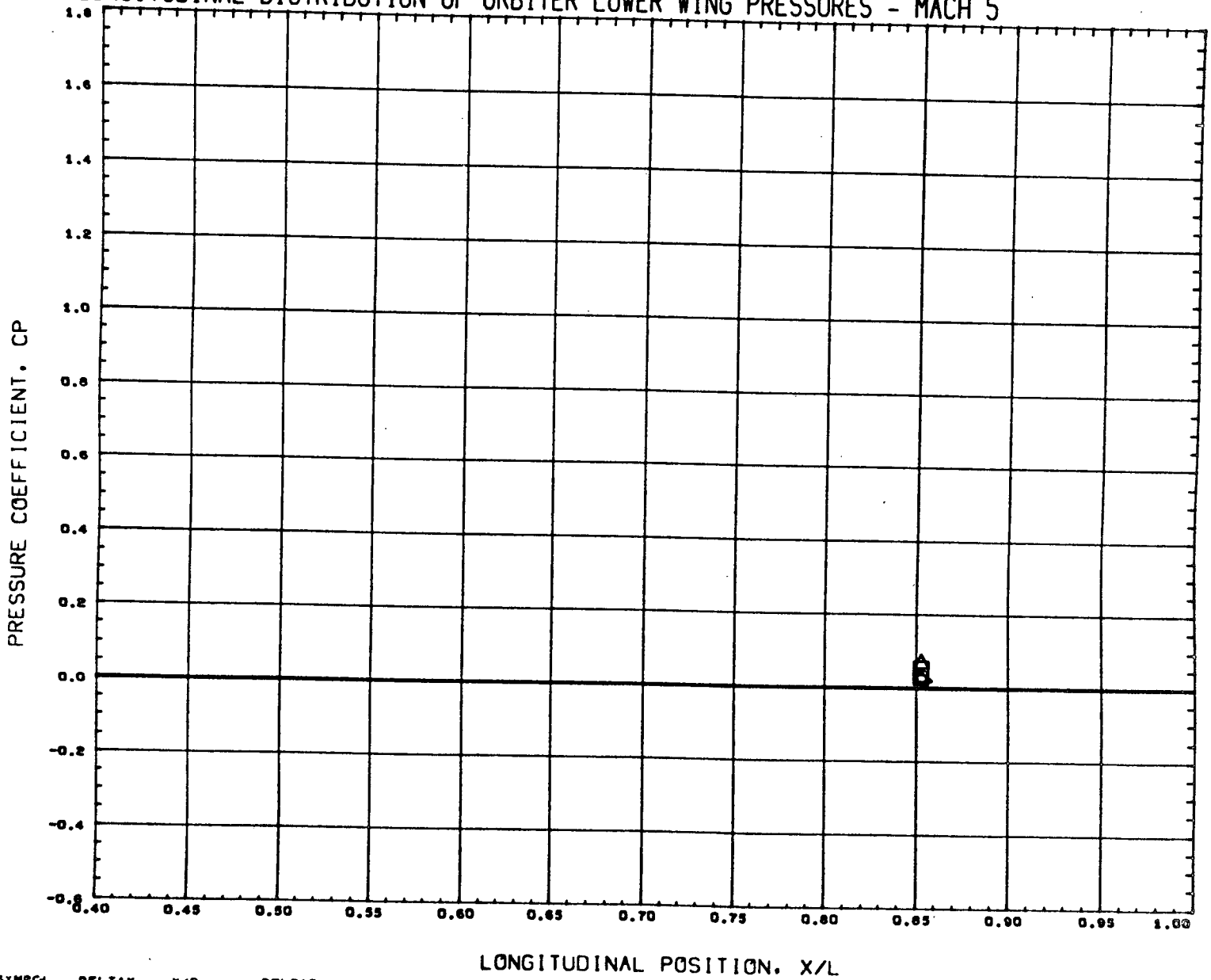
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.390	0.566	0.226
△	- 0.143		
◇	- 0.020		
□	0.103		
▽	0.227		
○	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

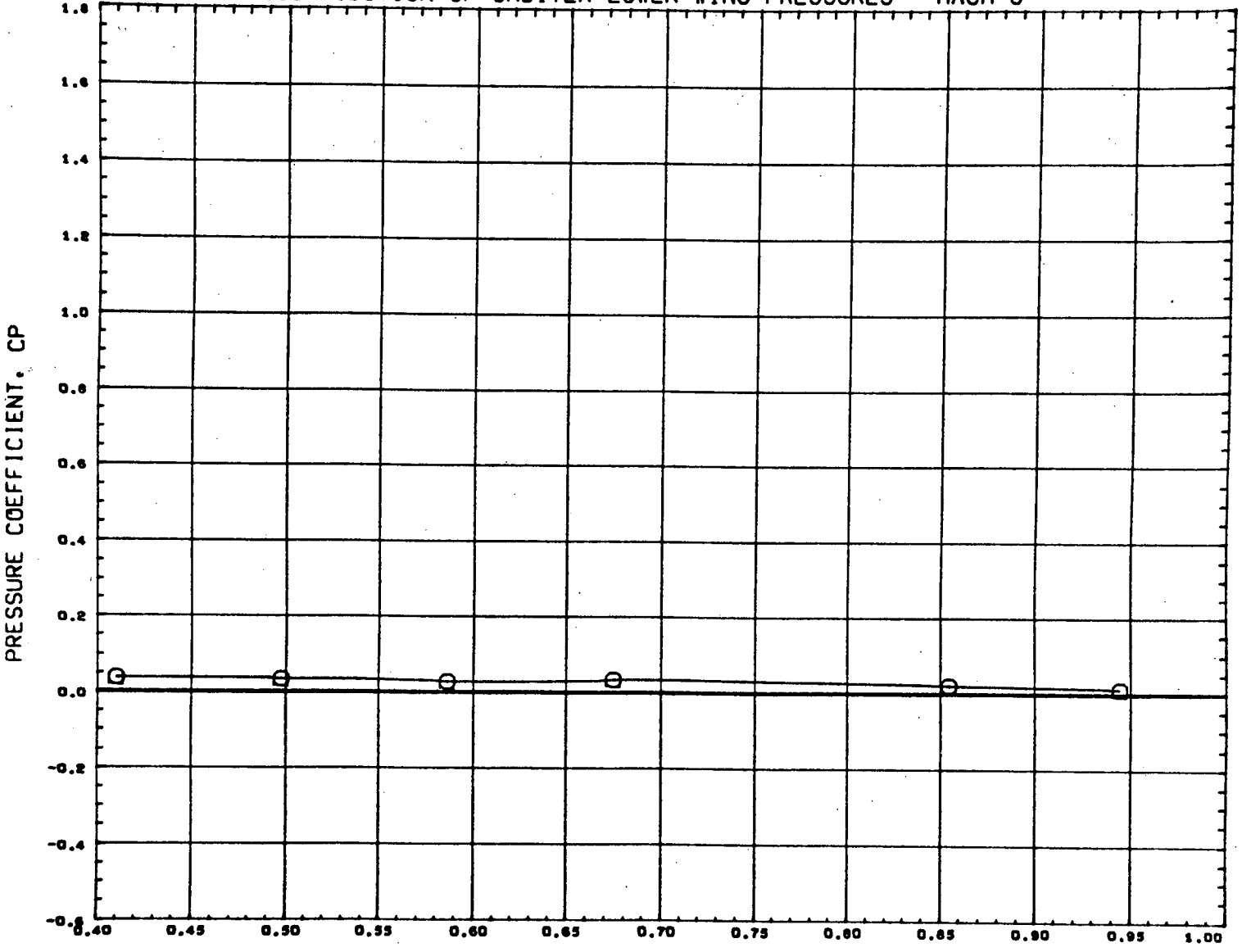


SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.736	0.226
-	0.143		
-	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



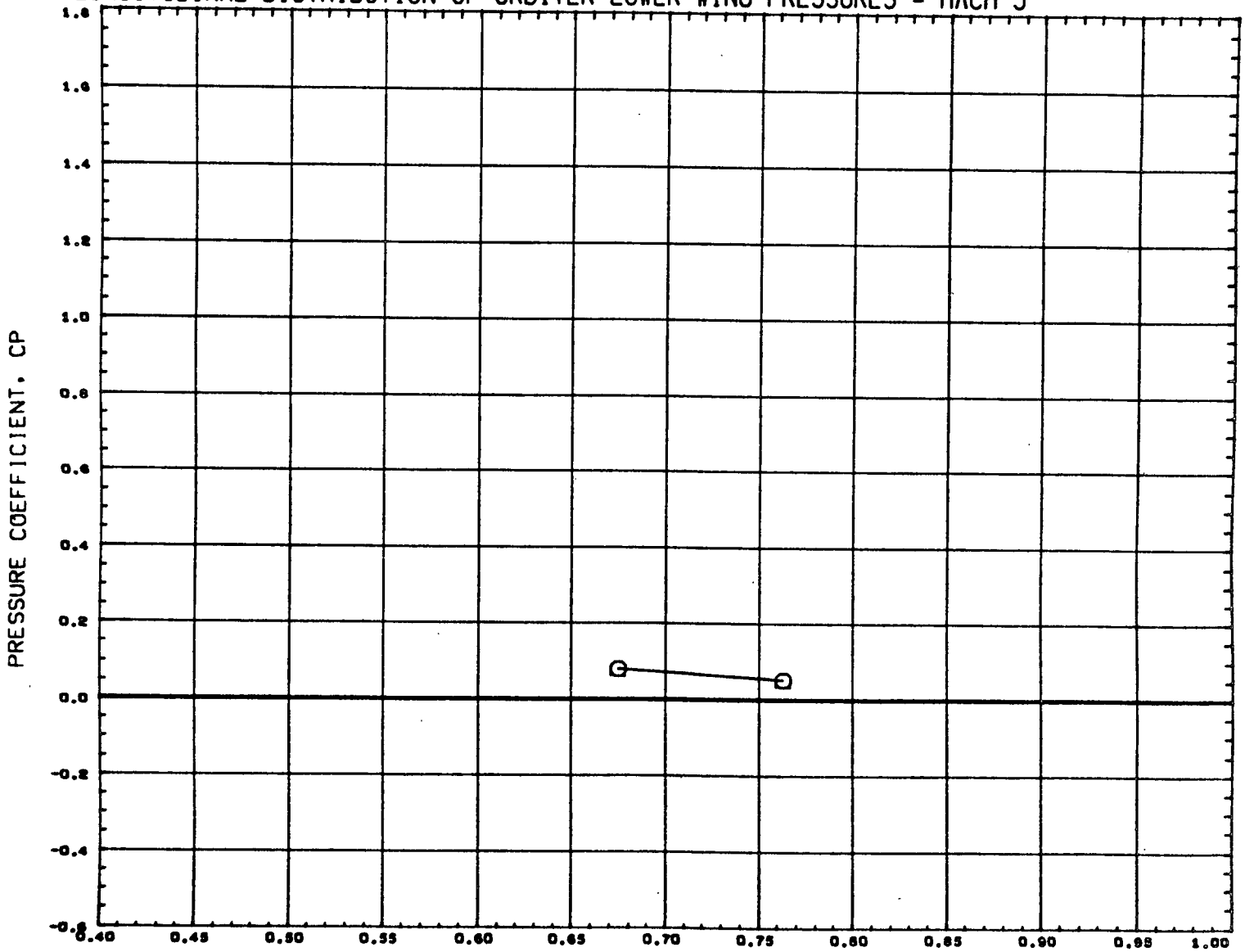
LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 ○ 0.920 0.230 0.909

PARAMETRIC VALUES
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 ALPHA1 0.000 ORBPOW 100.000
 BSTPOW 90.000

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.908

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.049
ALPHAI	0.000	ORBPOW	100.000
BSTPCW	50.000		

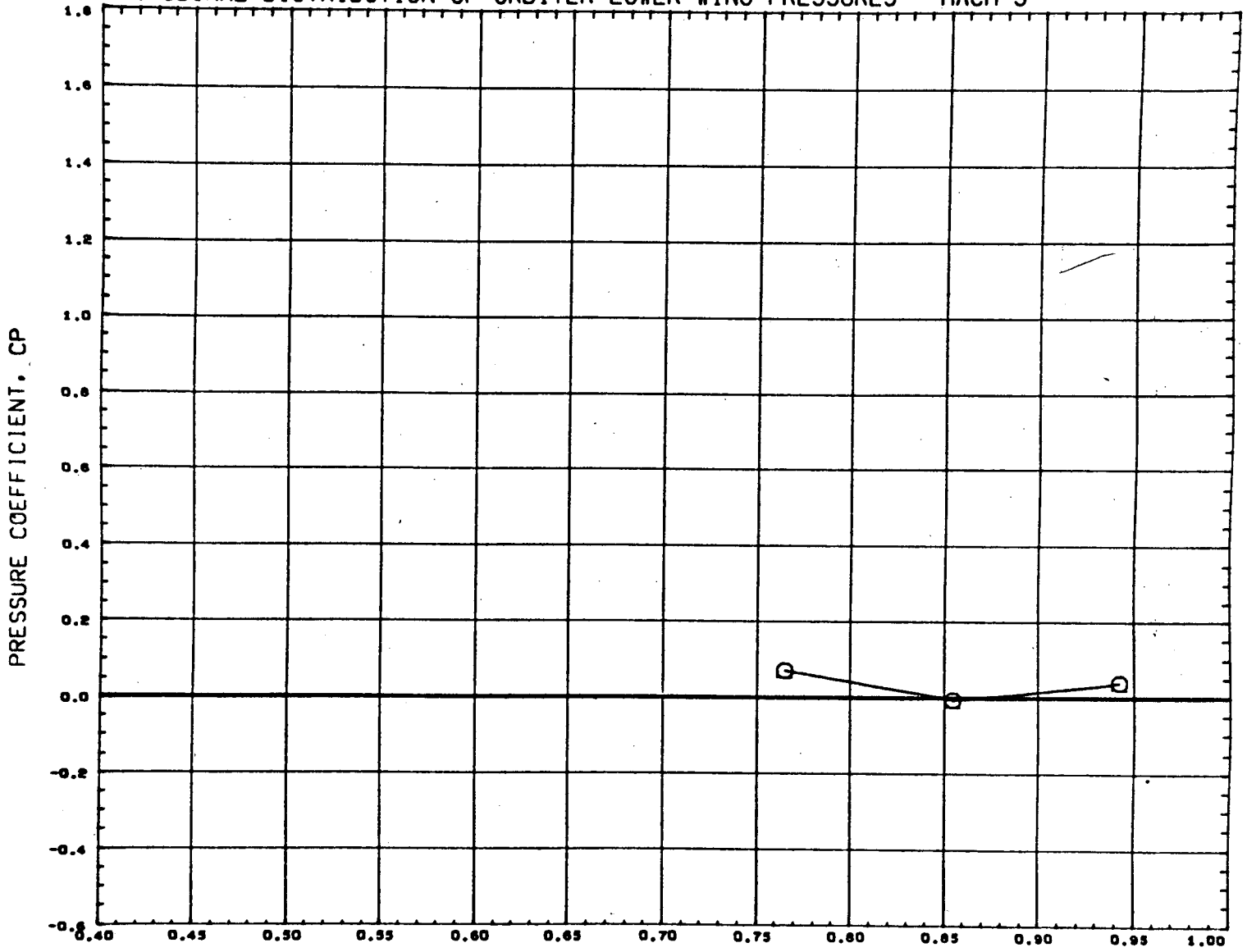
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.920	0.568	0.908

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

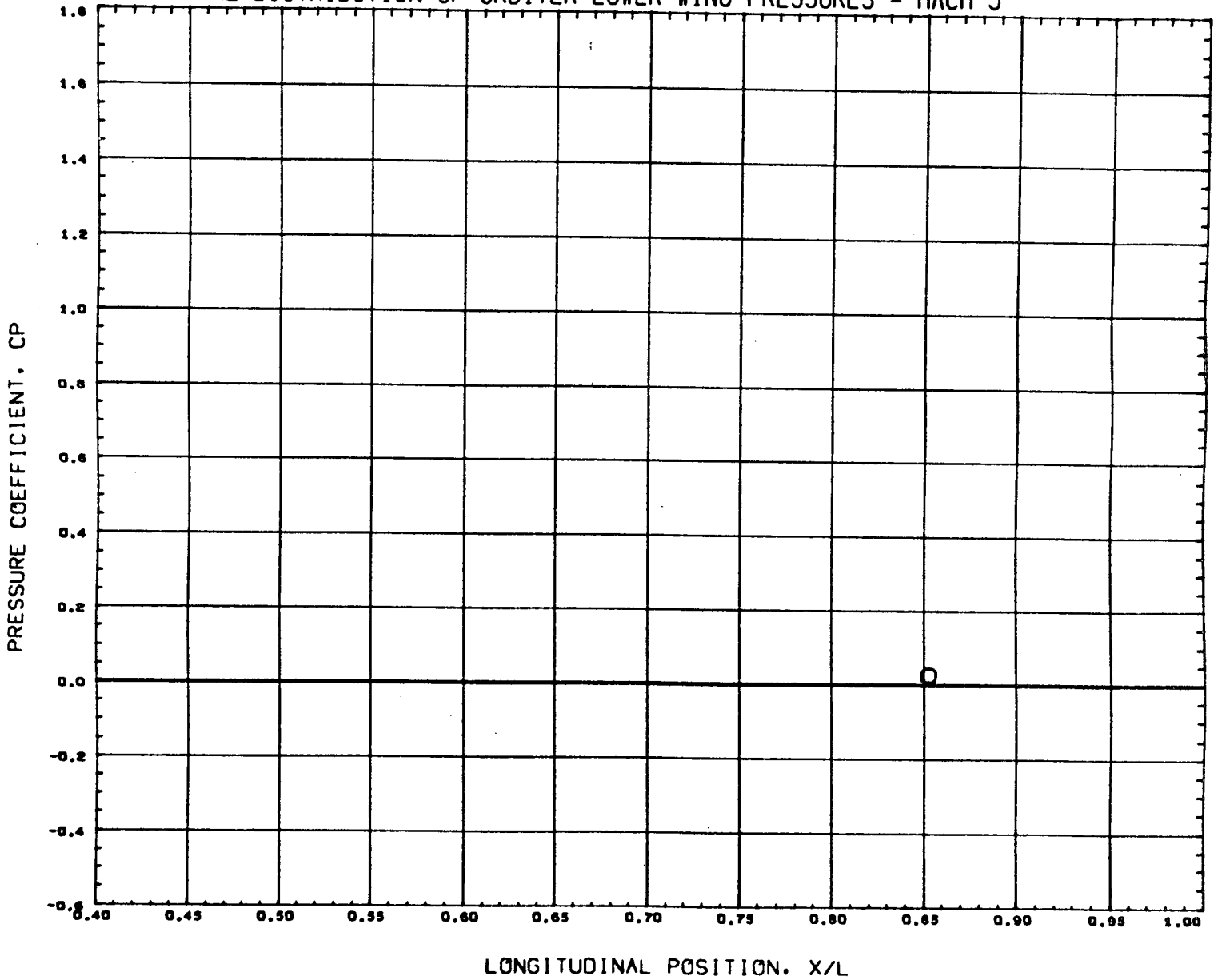
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.736	0.906

PARAMETRIC VALUES			
ALPHAB	5.067	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

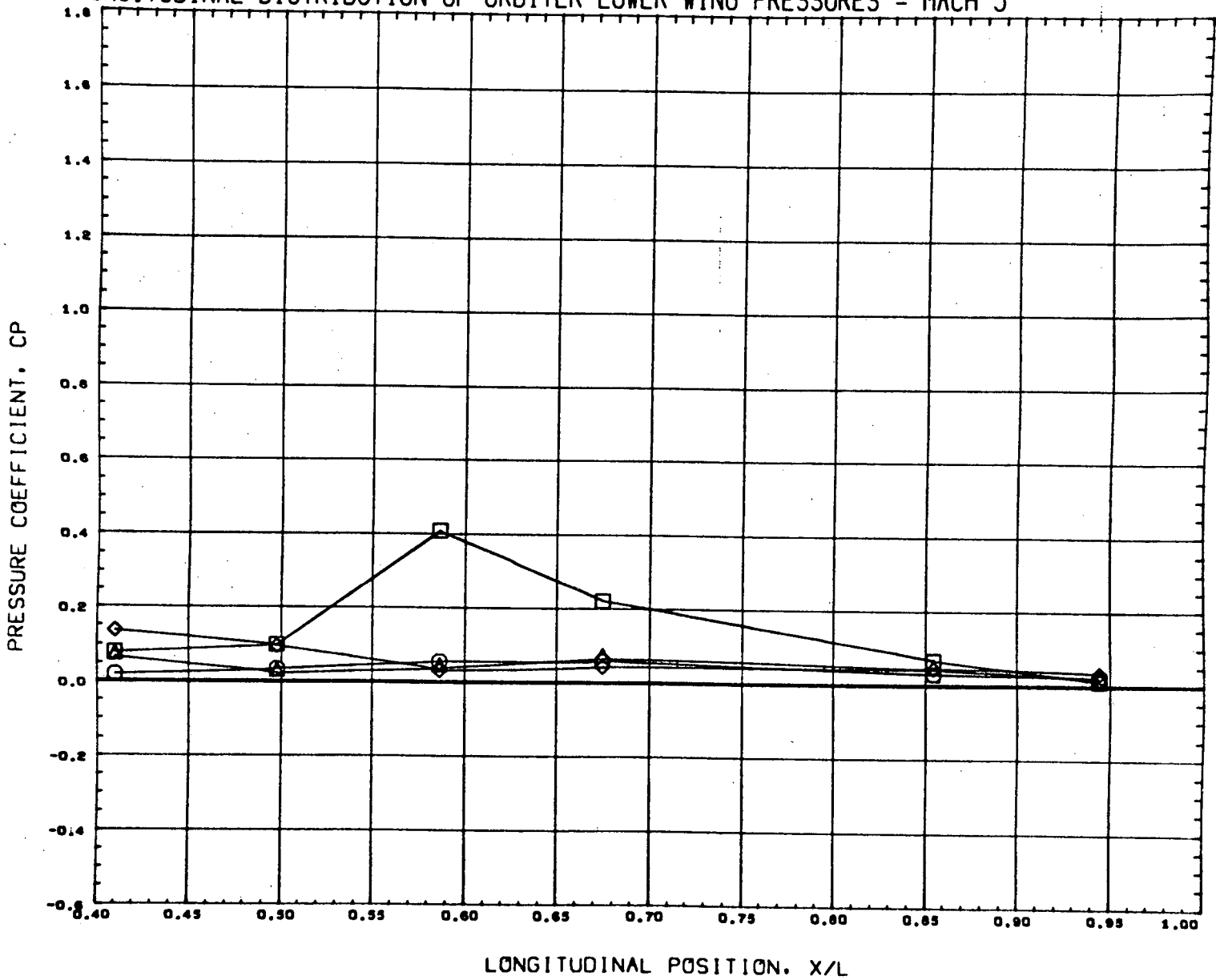
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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.230	0.114
△	0.103		
◇	0.163		
□	0.330		

PARAMETRIC VALUES		
ALPHAB	10.033	MACH 4.940
ALPHA1	0.000	ORBPOW 100.000
BSTPOW	30.000	

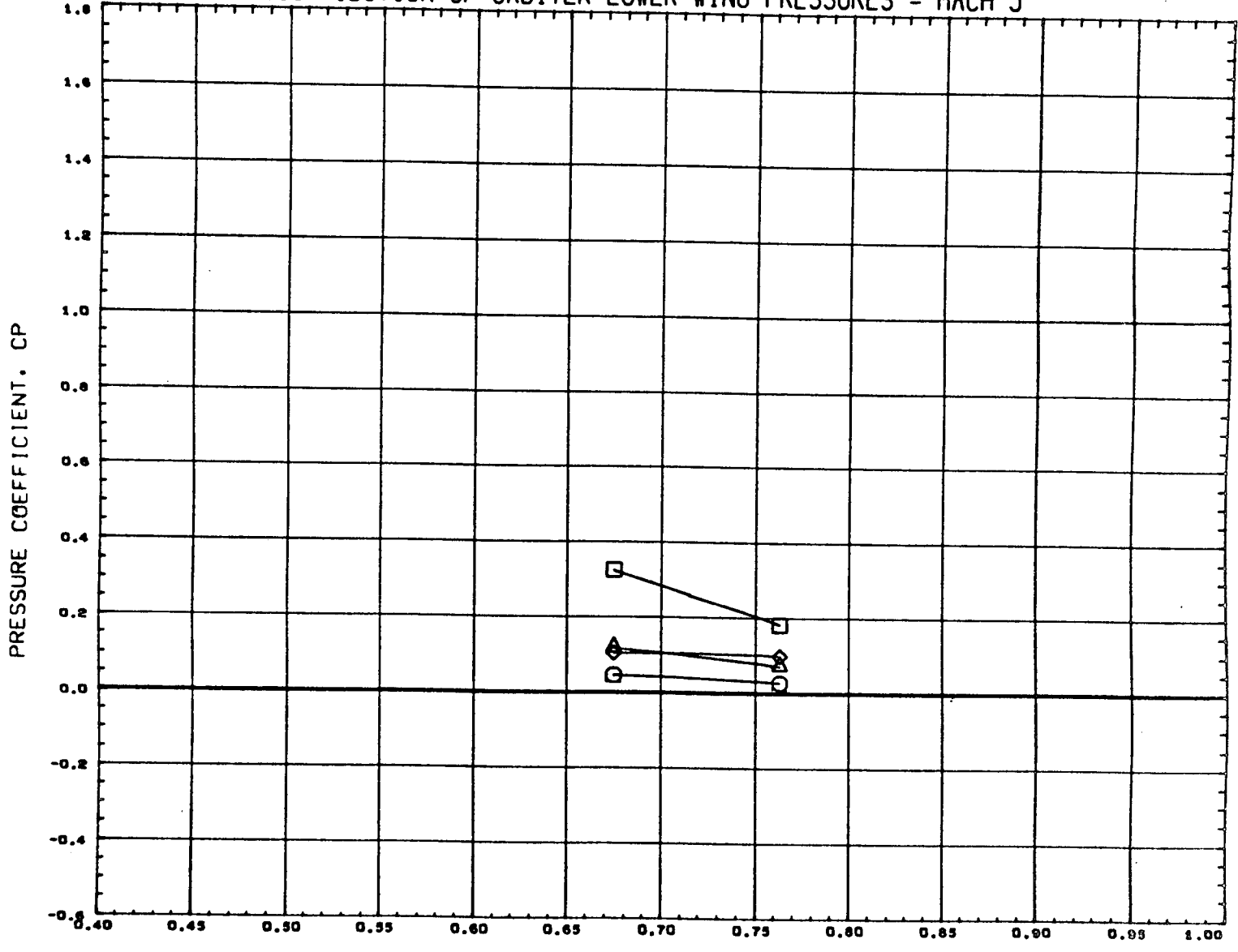
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

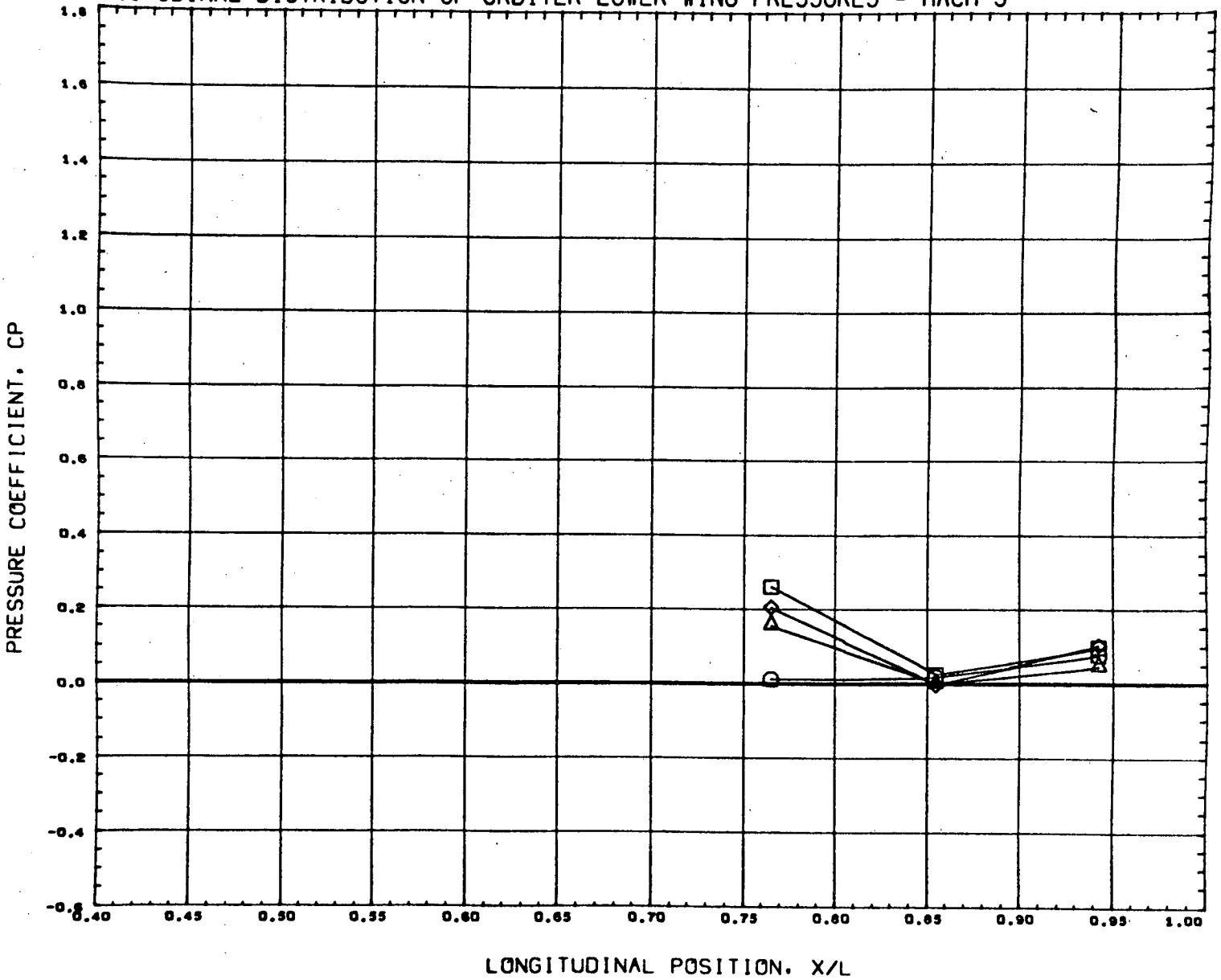


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.399	0.114
△	0.103		
◇	0.165		
□	0.390		

PARAMETRIC VALUES			
ALPHAB	10.033	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	30.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.566	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

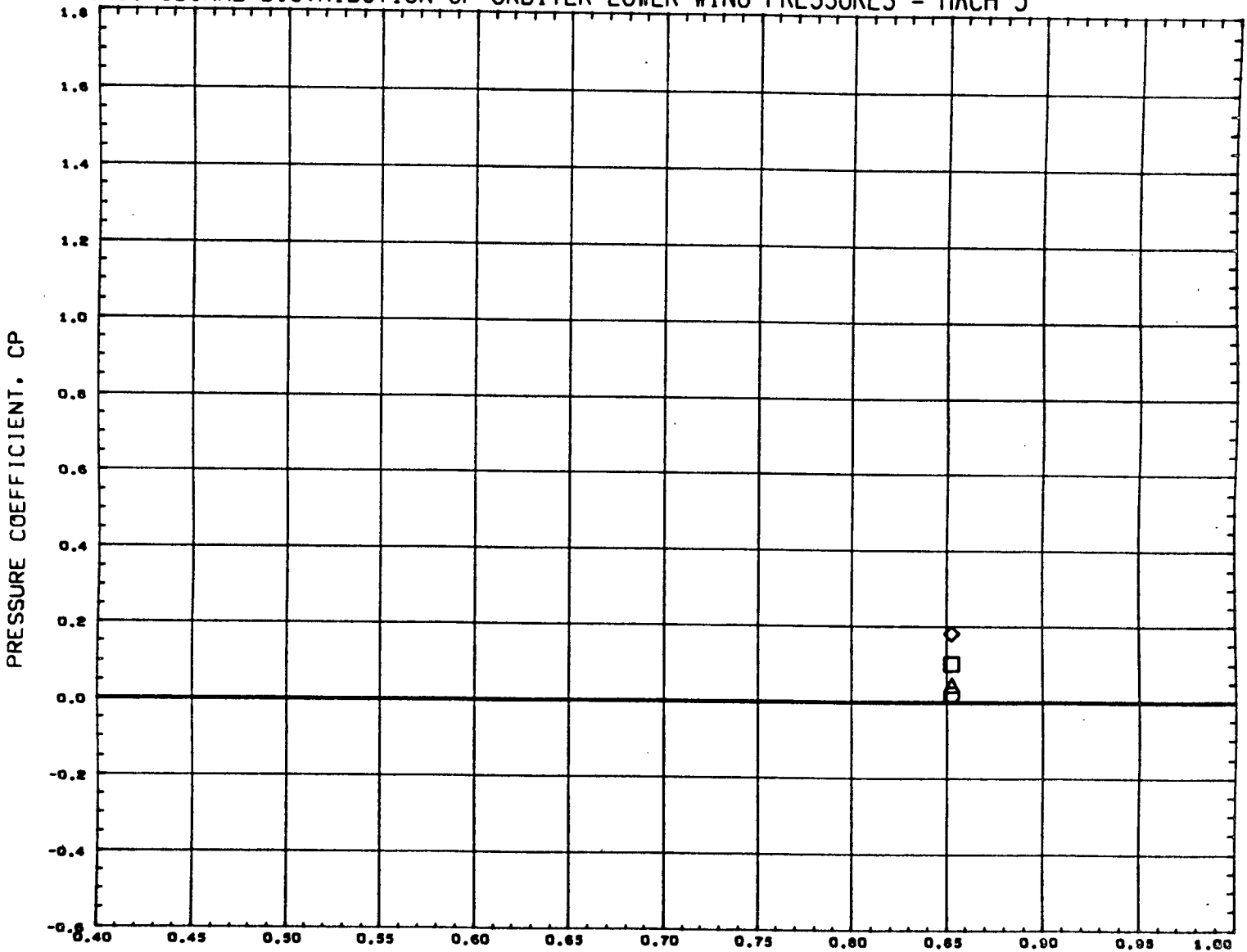
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



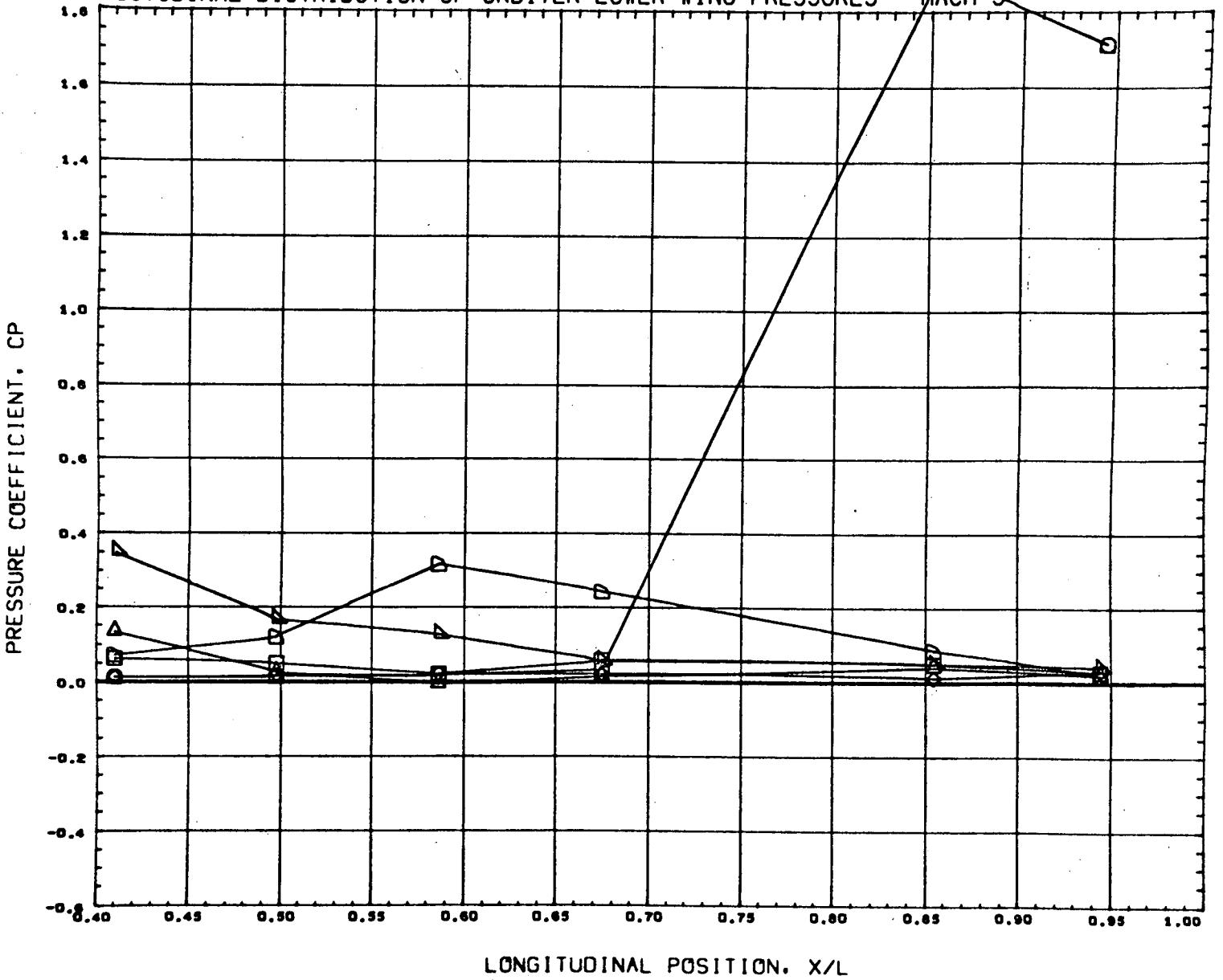
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.041	0.730	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES		
ALPHAB	10.053	MACH 4.040
ALPHA I	0.000	ORBPOW 100.000
BSTPOW	50.000	

REFERENCE FILE

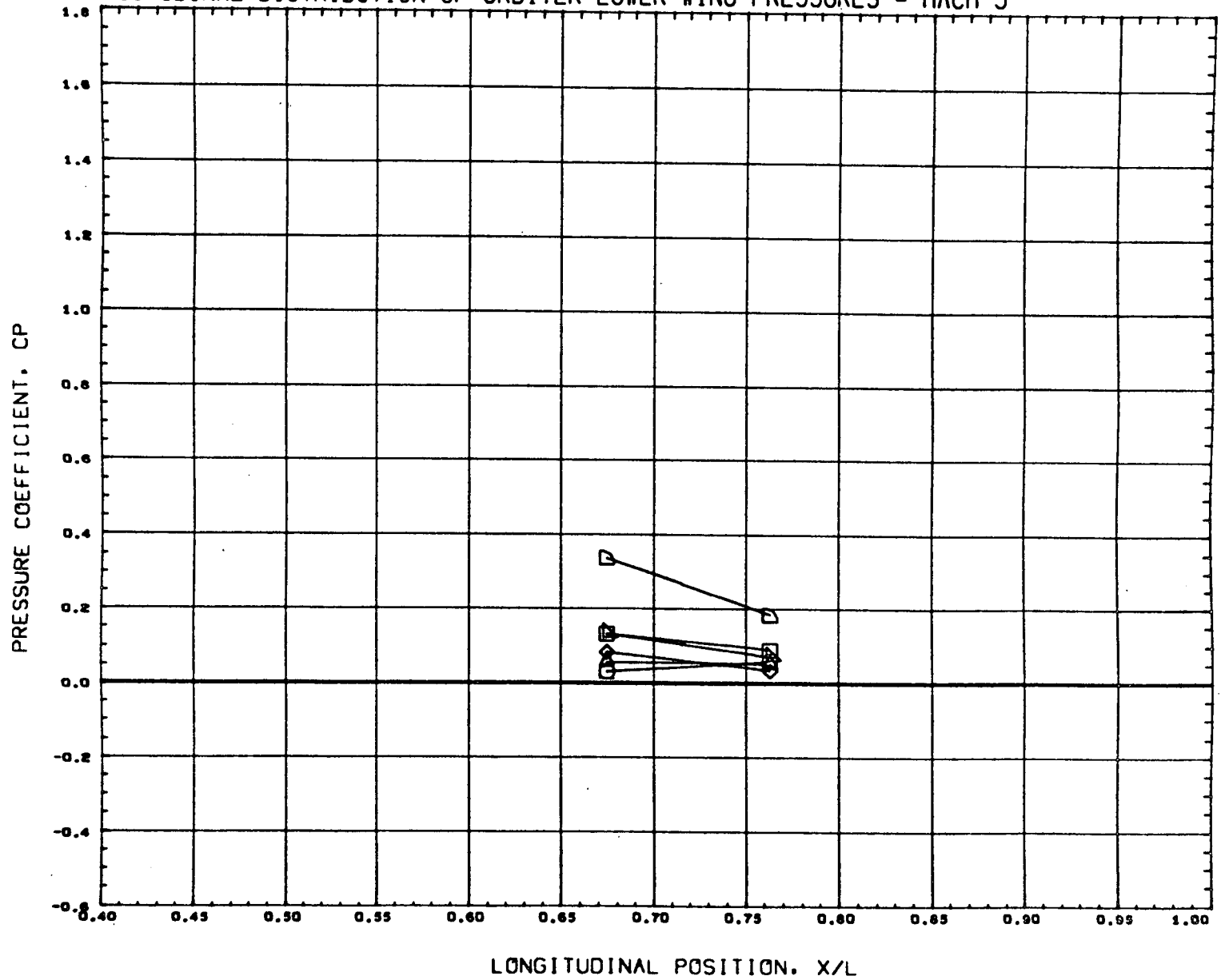
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.120
◇	0.143		
□	0.020		
△	0.103		
▲	0.227		
	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHA B	10.053	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	30.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

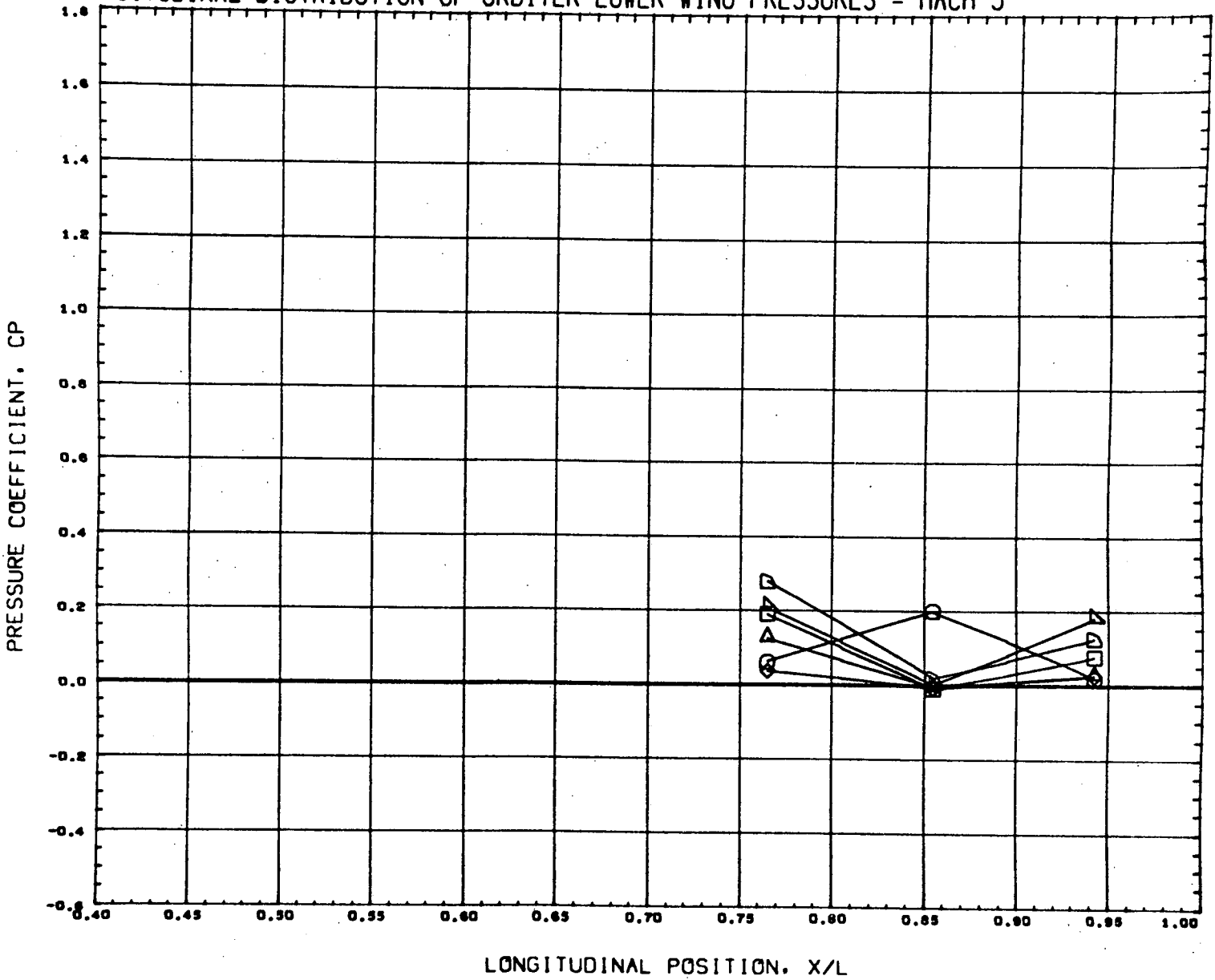


SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.399	0.120
◇	0.143		
○	0.020		
△	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

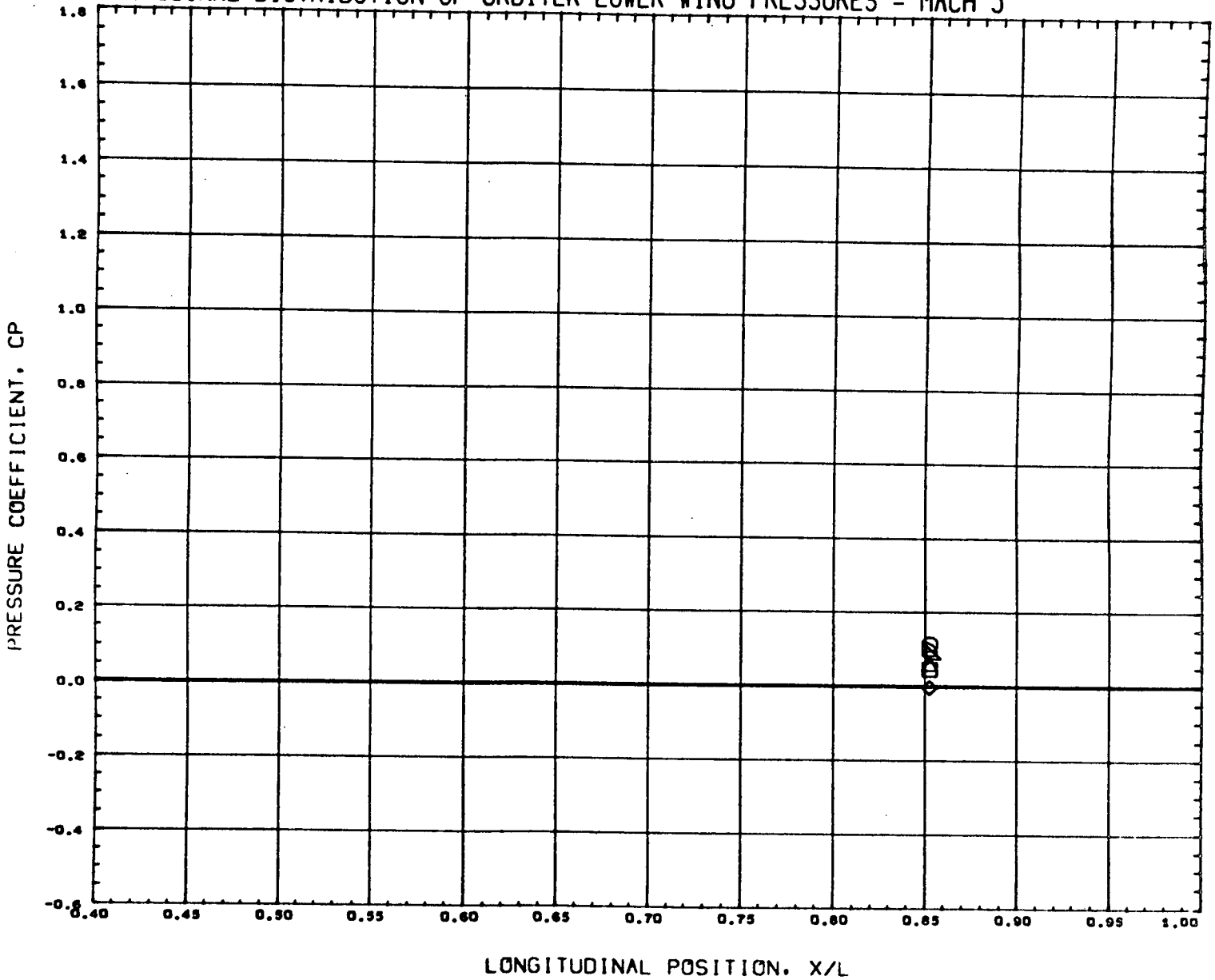


SYMBOL	DELTA X	Y/B	DELTA Z
□	0.390	0.568	0.120
△	0.143		
◇	0.020		
○	0.103		
	0.227		
	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

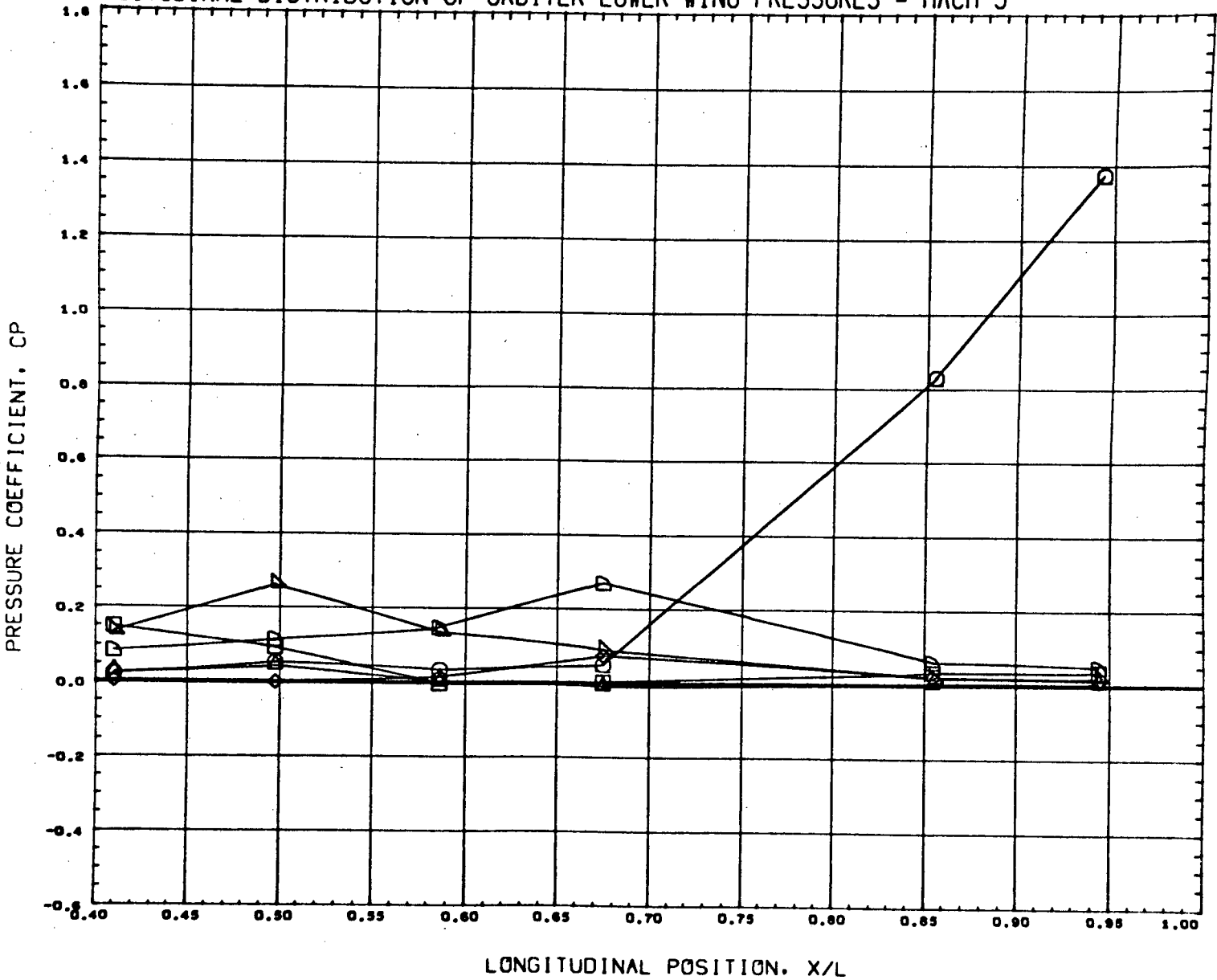


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.739	0.120
△	0.143		
◇	0.020		
□	0.103		
▣	0.227		
▤	0.390		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	10.053	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	30.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

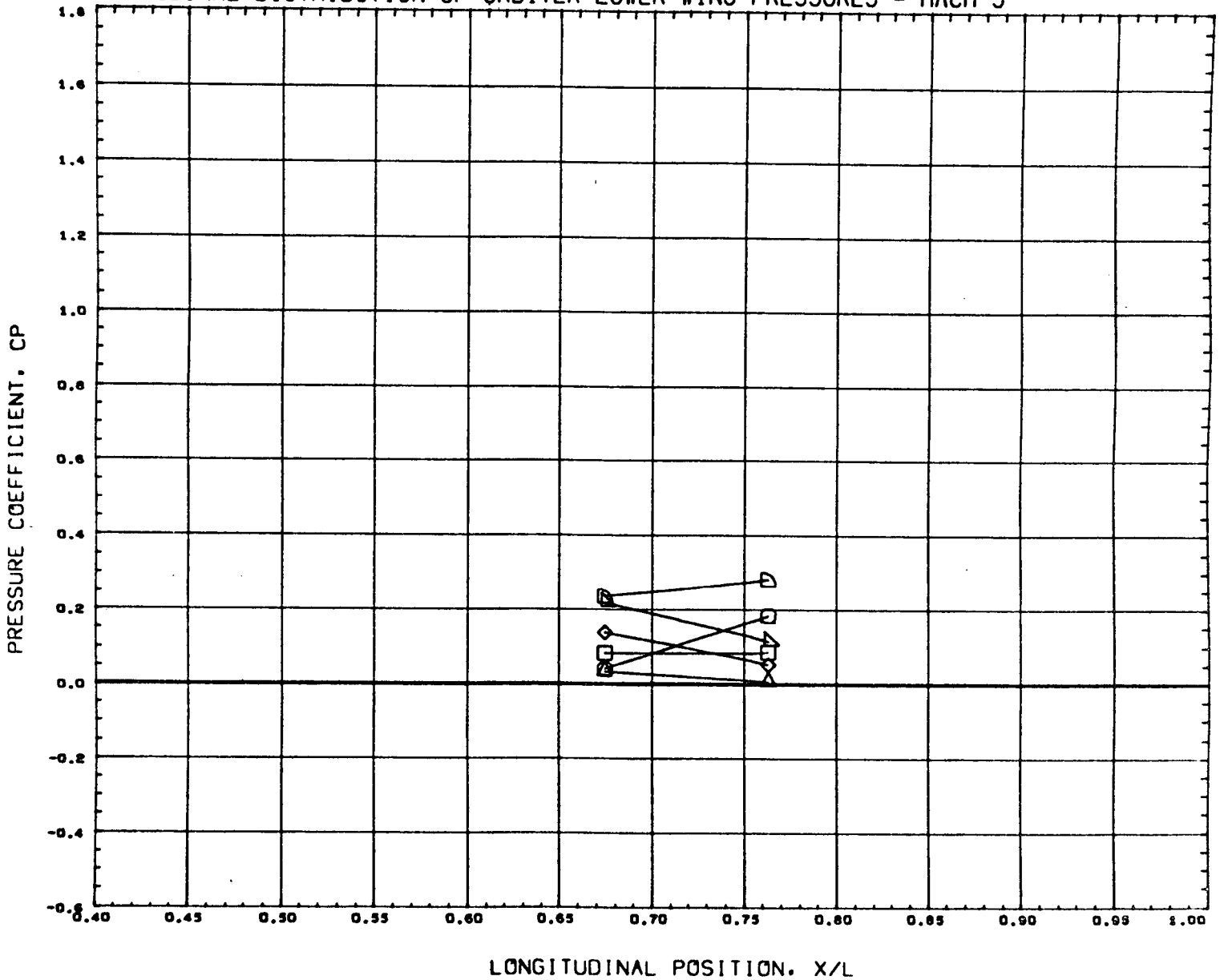


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.230	0.151
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	10.053	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	50.000	

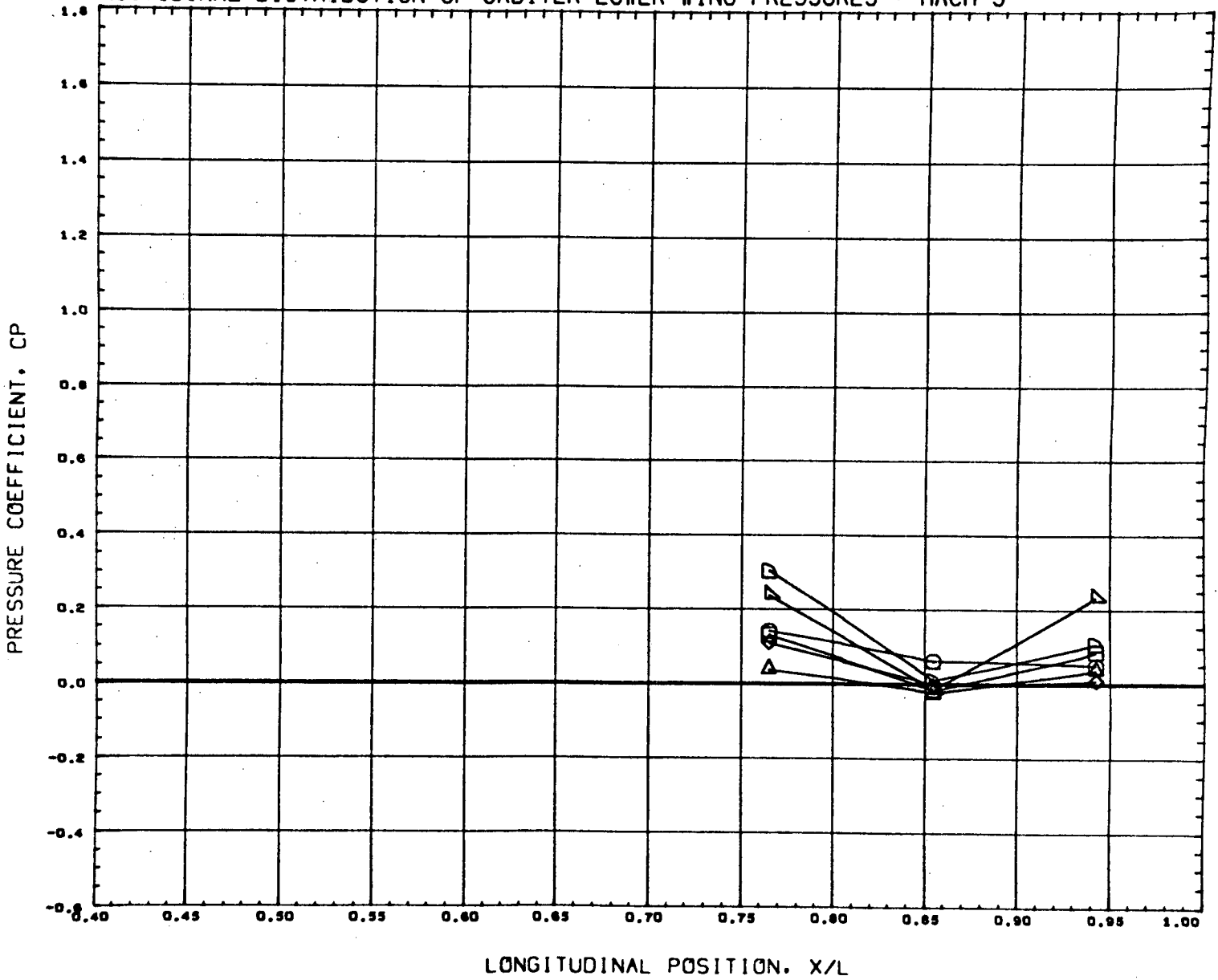
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.151
◇	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.390		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.033	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

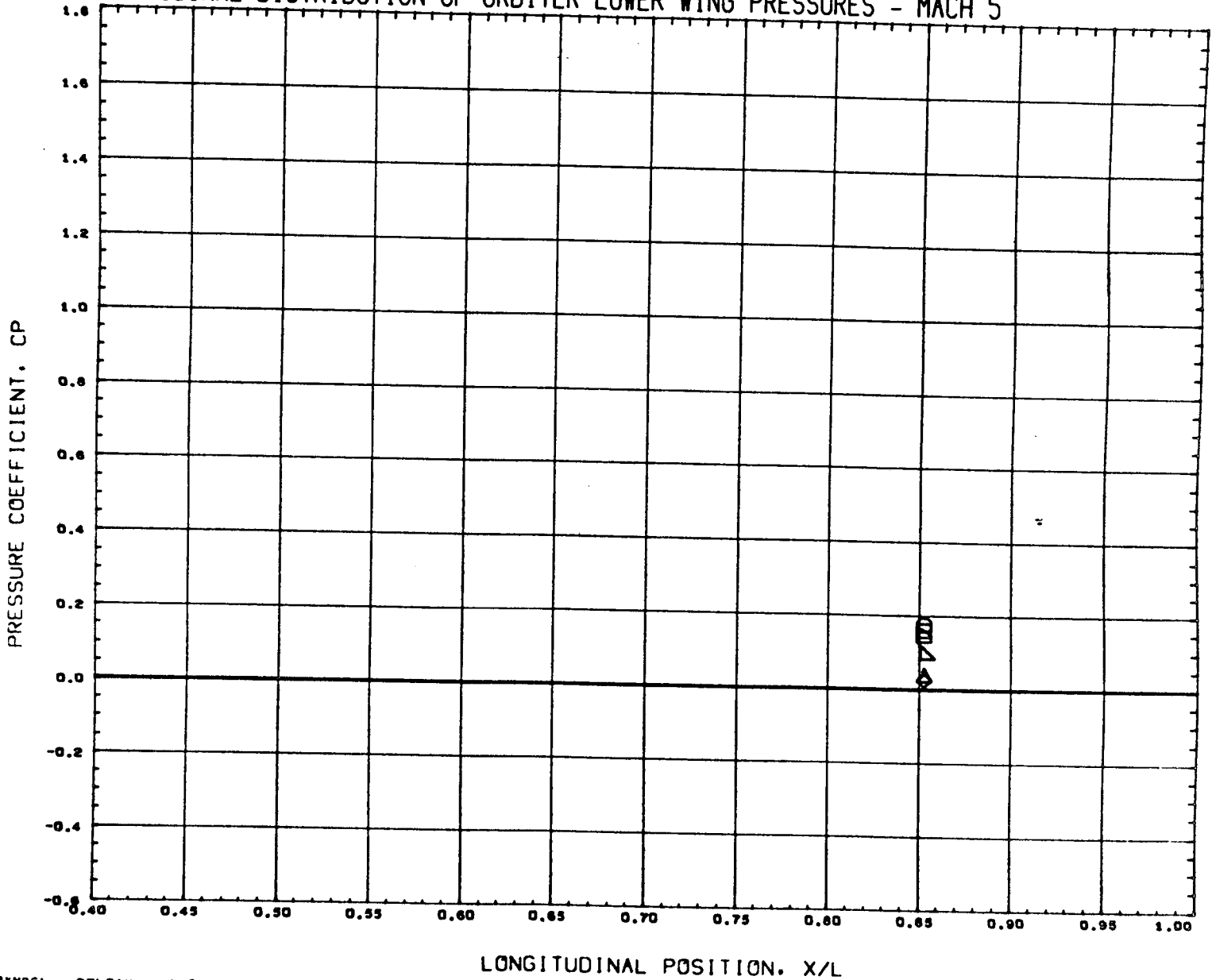


LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	T/B	DELTA Z
○	0.390	0.566	0.151
◇	0.143		
△	0.020		
□	0.103		
◇	0.227		
△	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

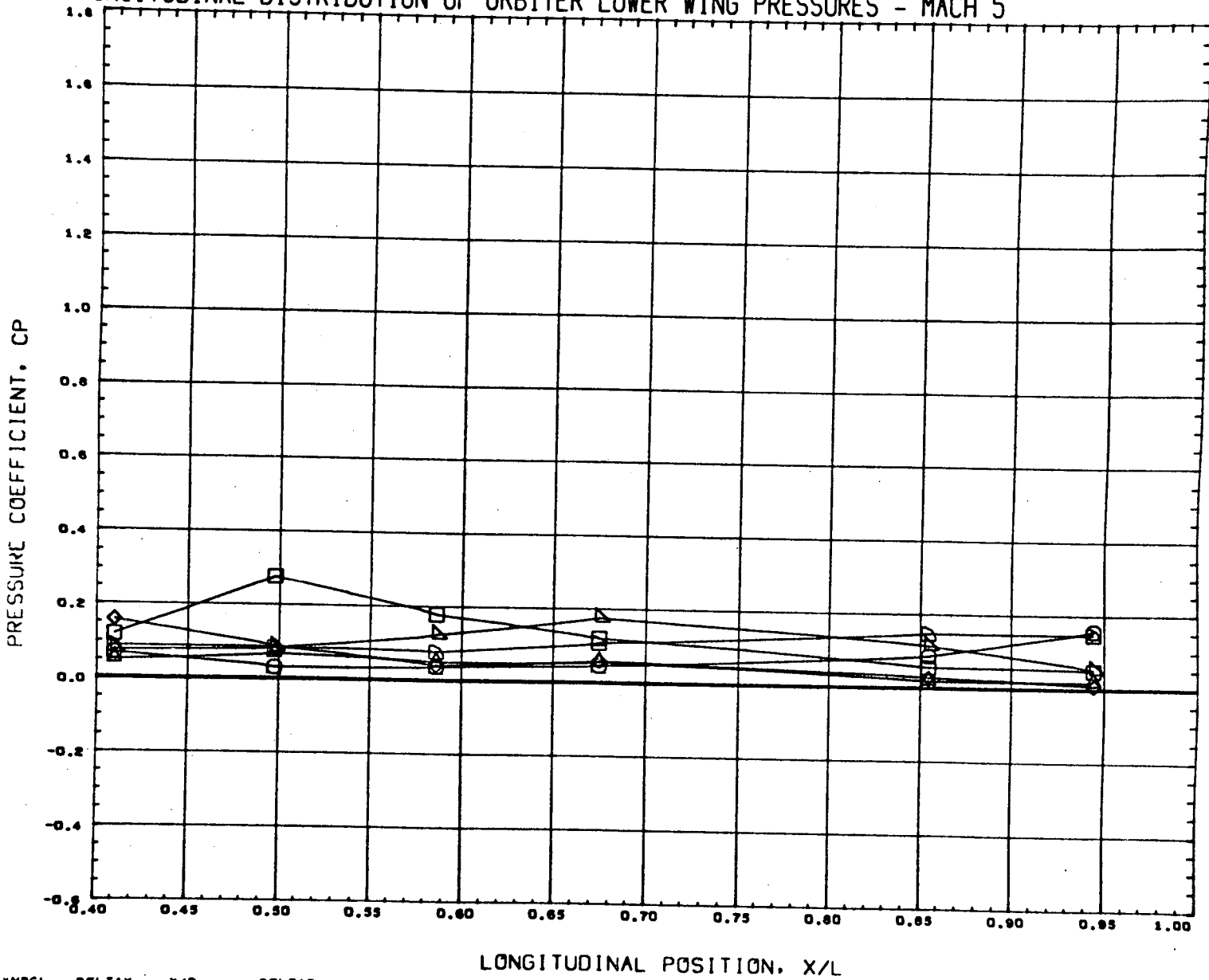


SYMBOL	DELTA X	Y/B	DELTA Z
-	0.390	0.736	0.151
-	0.143		
-	0.020		
□	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	10.053	MACH 4.940
ALPHA1	0.000	ORBPOW 100,000
BSTPOW	50.000	

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

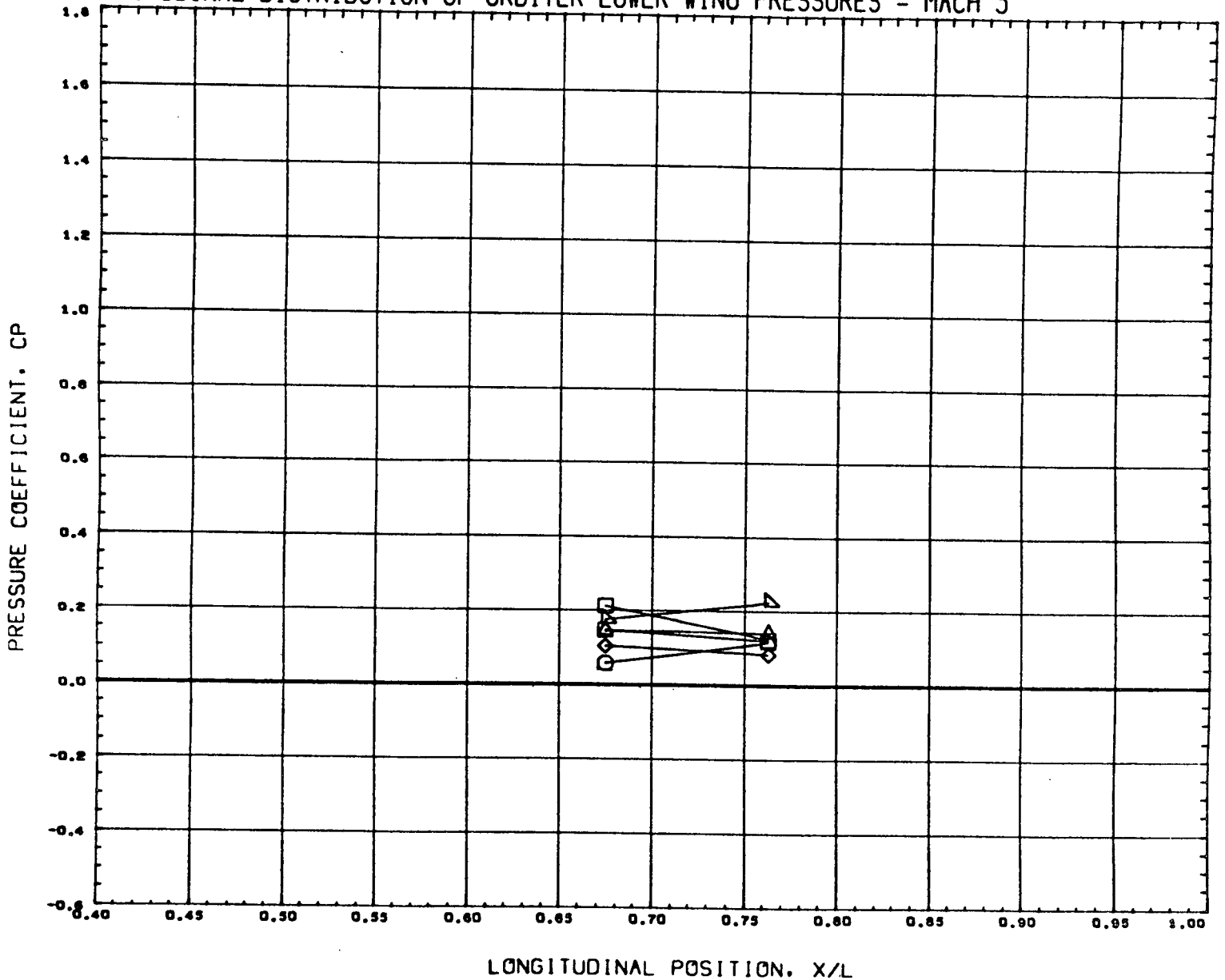


SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.390	0.230	0.226
△	- 0.143		
◇	- 0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	10.033	MACH 4.940
ALPHA I	0.000	ORBPOW 100.000
BSTPOW	50.000	

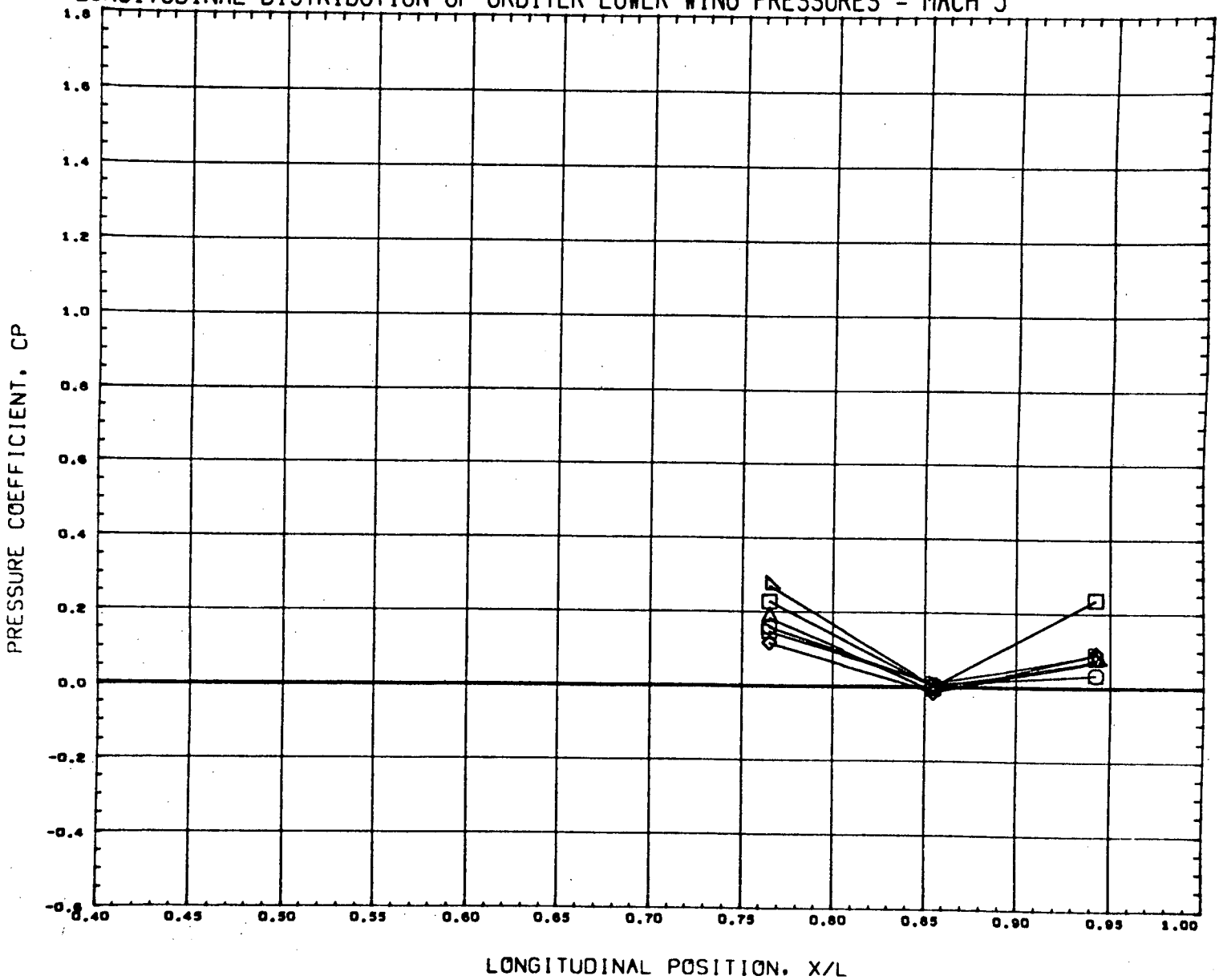
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.399	0.226
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

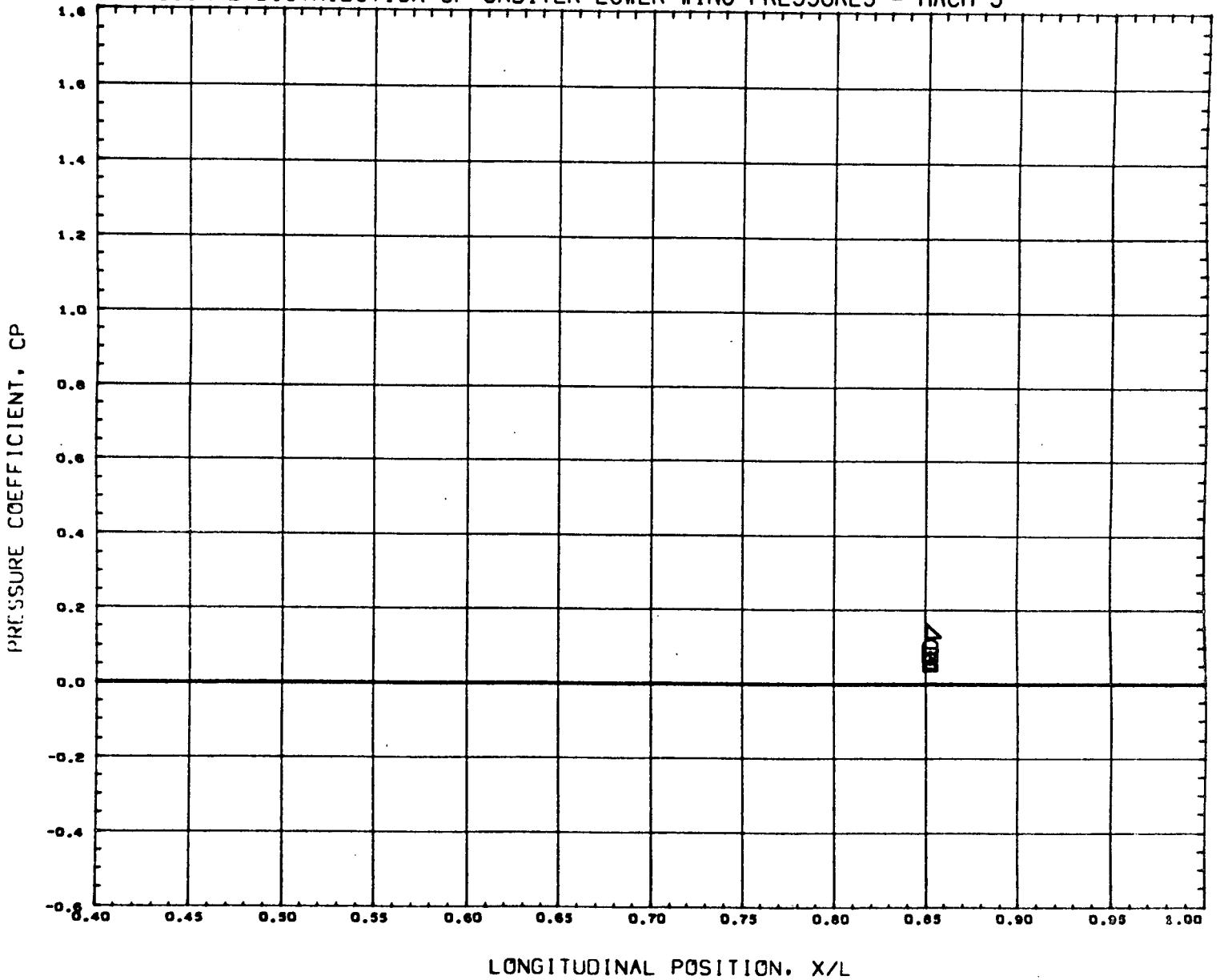


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.569	0.229
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

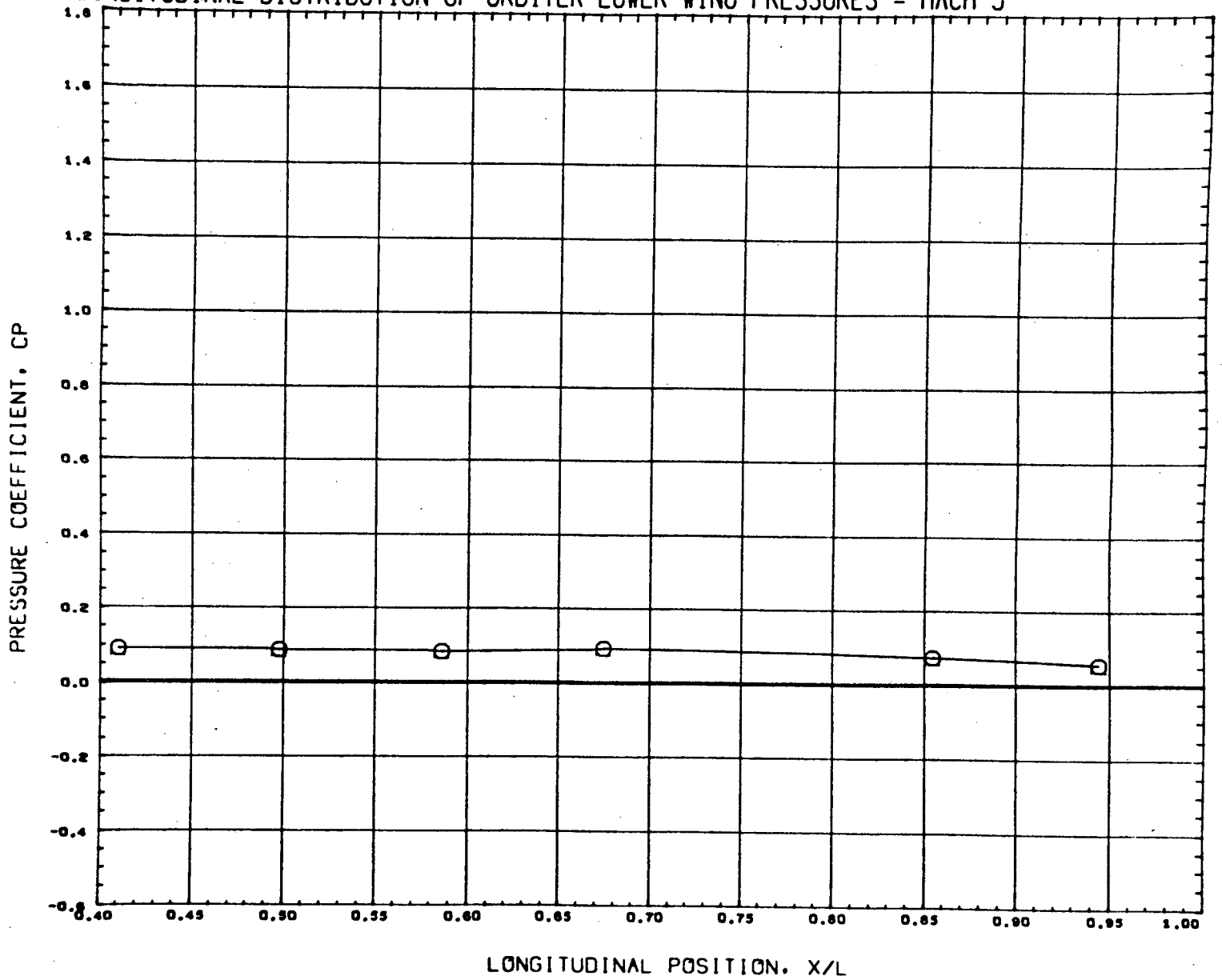
LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.390	0.736	0.228
△	0.143		
◇	0.020		
□	0.103		
▣	0.227		
□	0.390		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.033	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.905

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

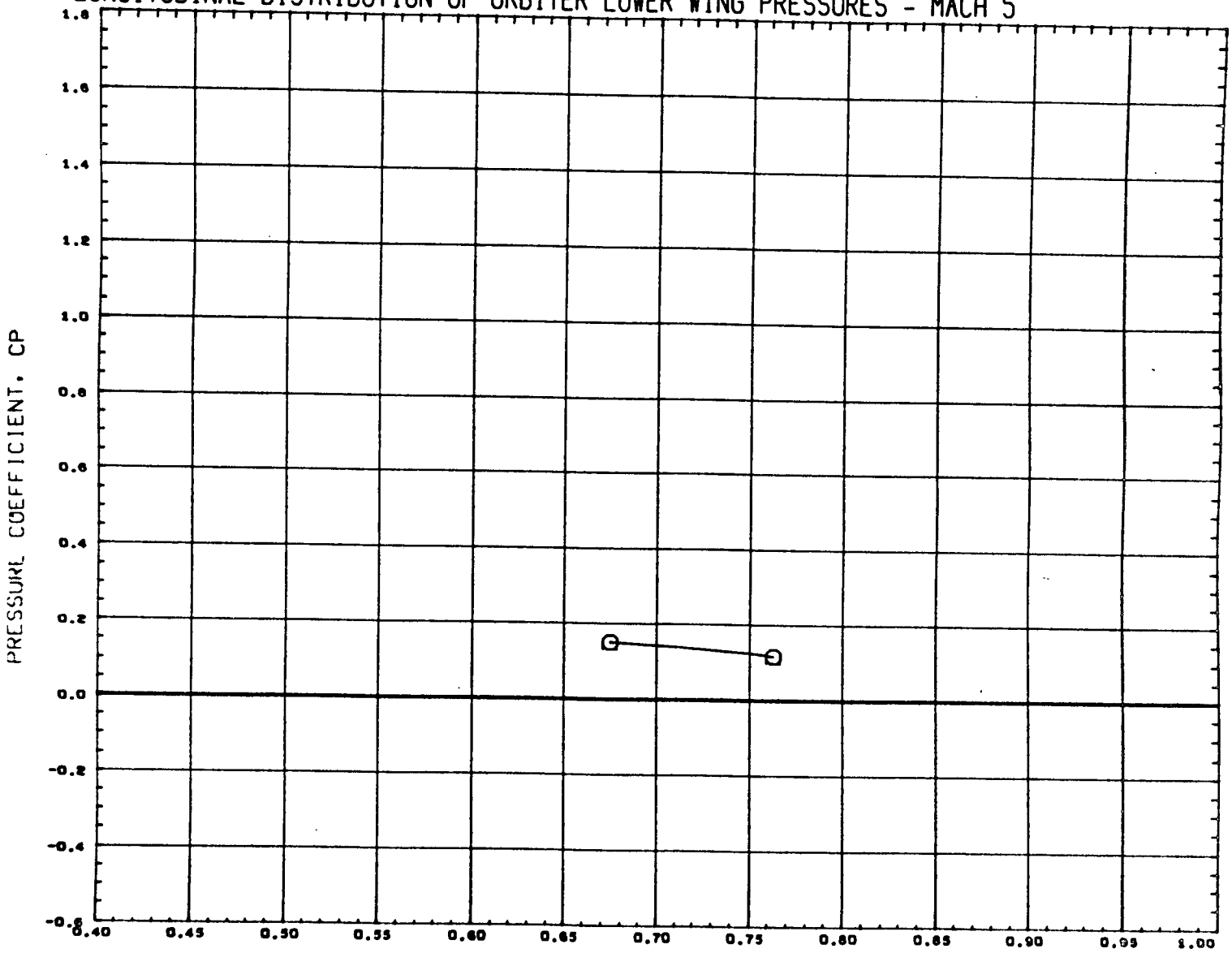
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.399	0.908

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	30.000		

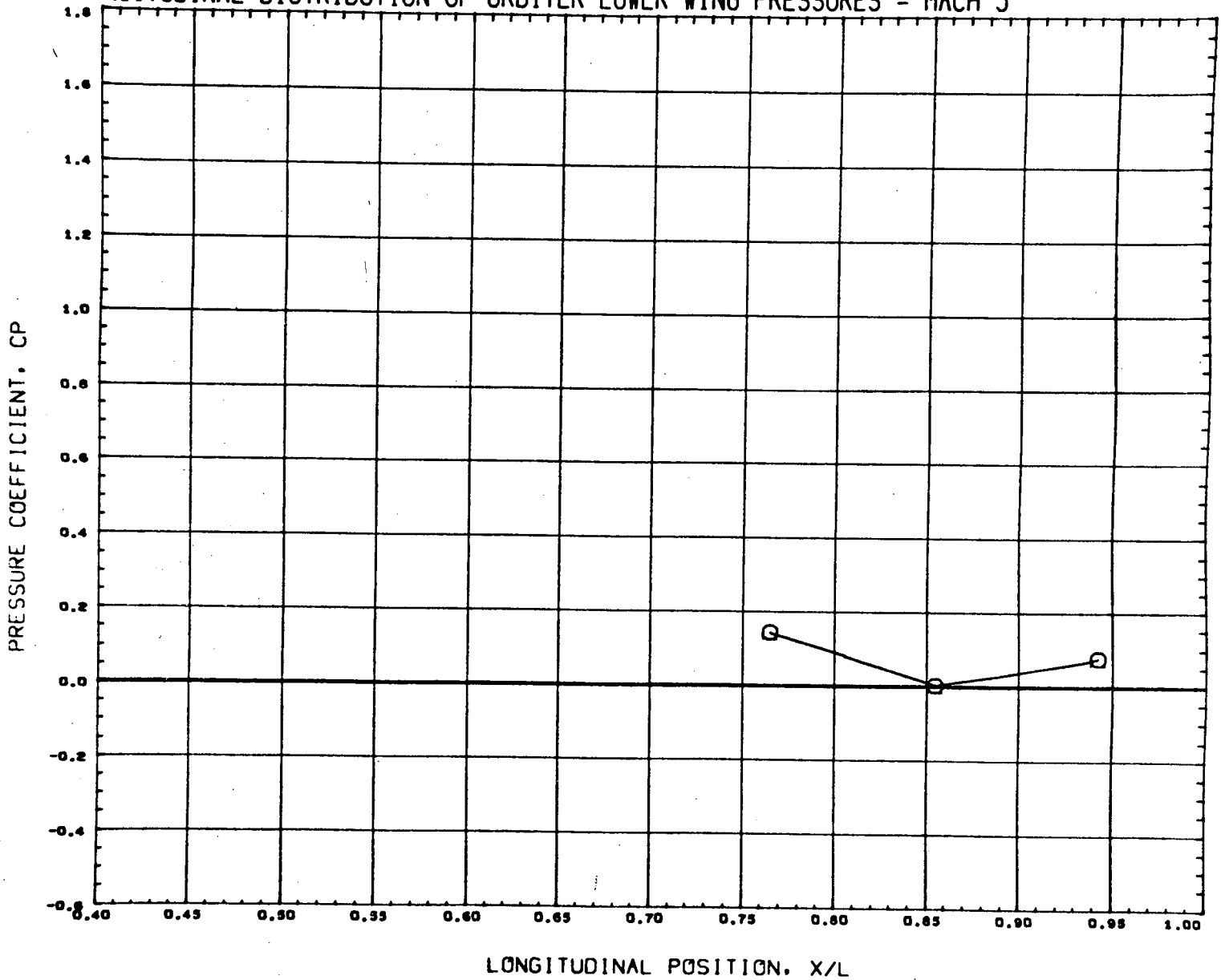
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL \bigcirc DELTAX 0.520 Y/B 0.568 DELTAZ 0.908

PARAMETRIC VALUES
 ALPHAB 10.033 MACH 4.940
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

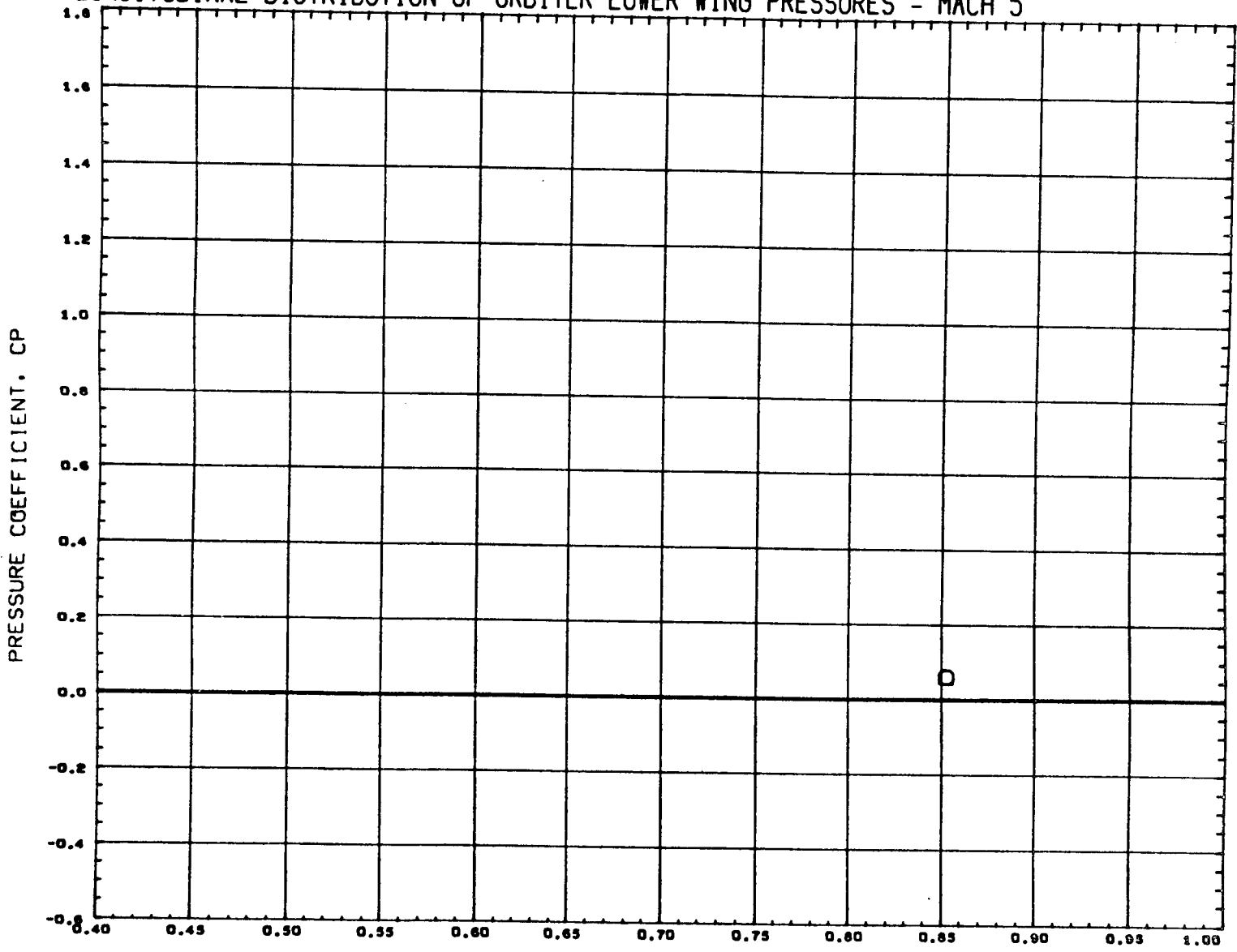
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.739	0.909

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

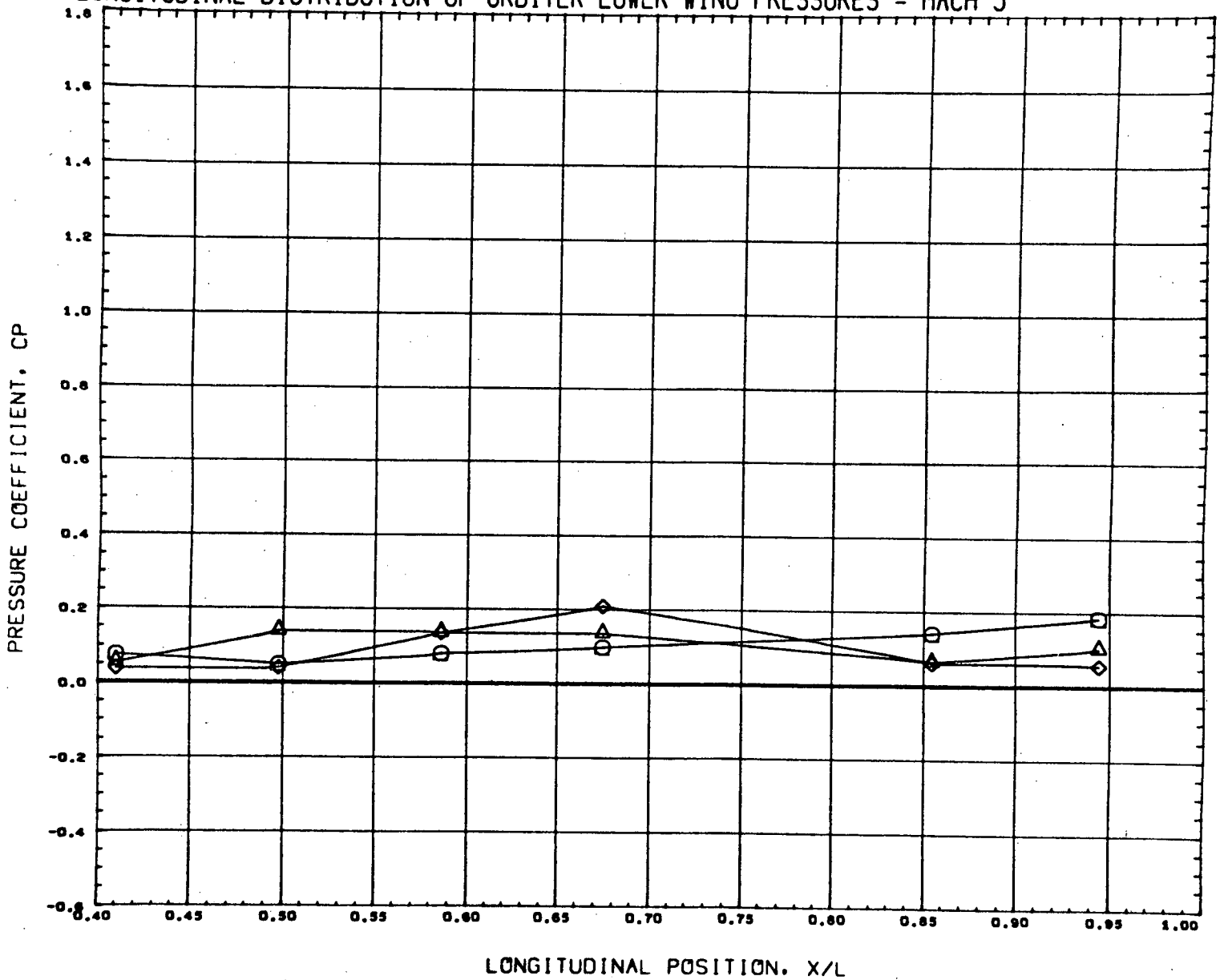
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	9.920	MACH	4.970
ALPHA1	5.000	ORBPOW	100.000
BSTPOW	50.000		

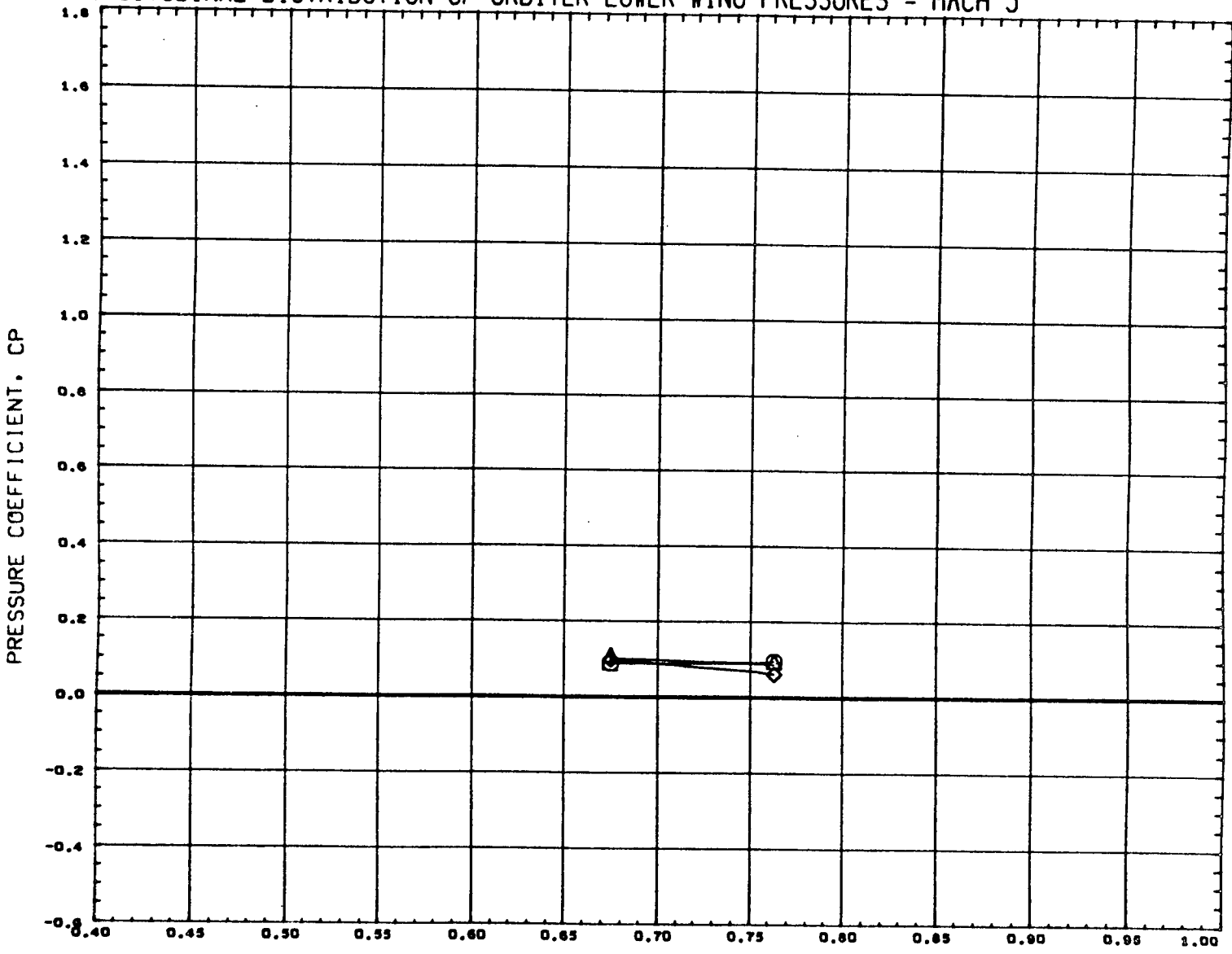
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	9.920	MACH	4.970
ALPHA1	5.000	ORBPOW	100.000
BSTPOW	50.000		

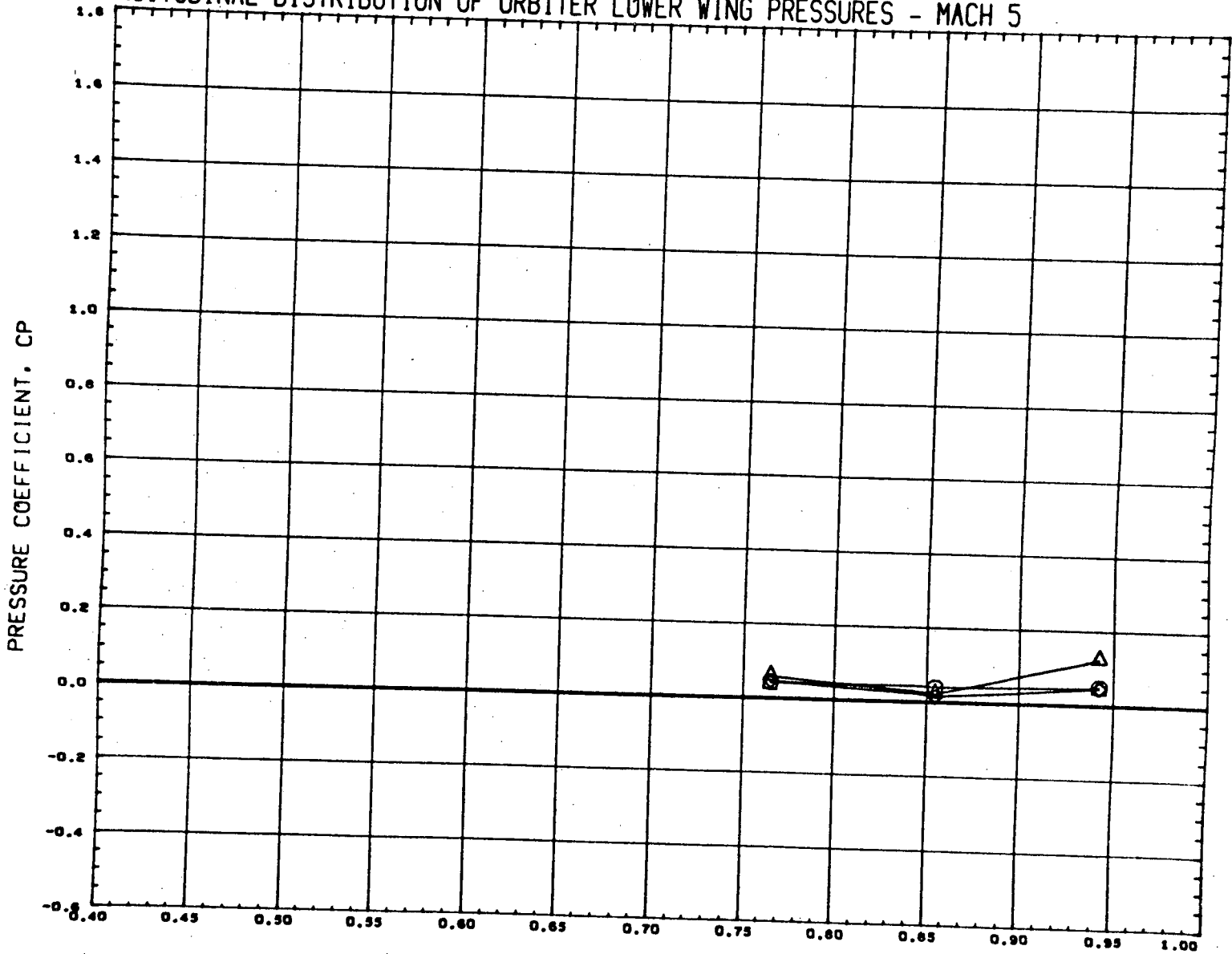
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
△	0.144	0.366	0.150
○	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	9.920	MACH	4.970
ALPHA1	5.000	ORBPOW	100.000
BSTPOW	50.000		

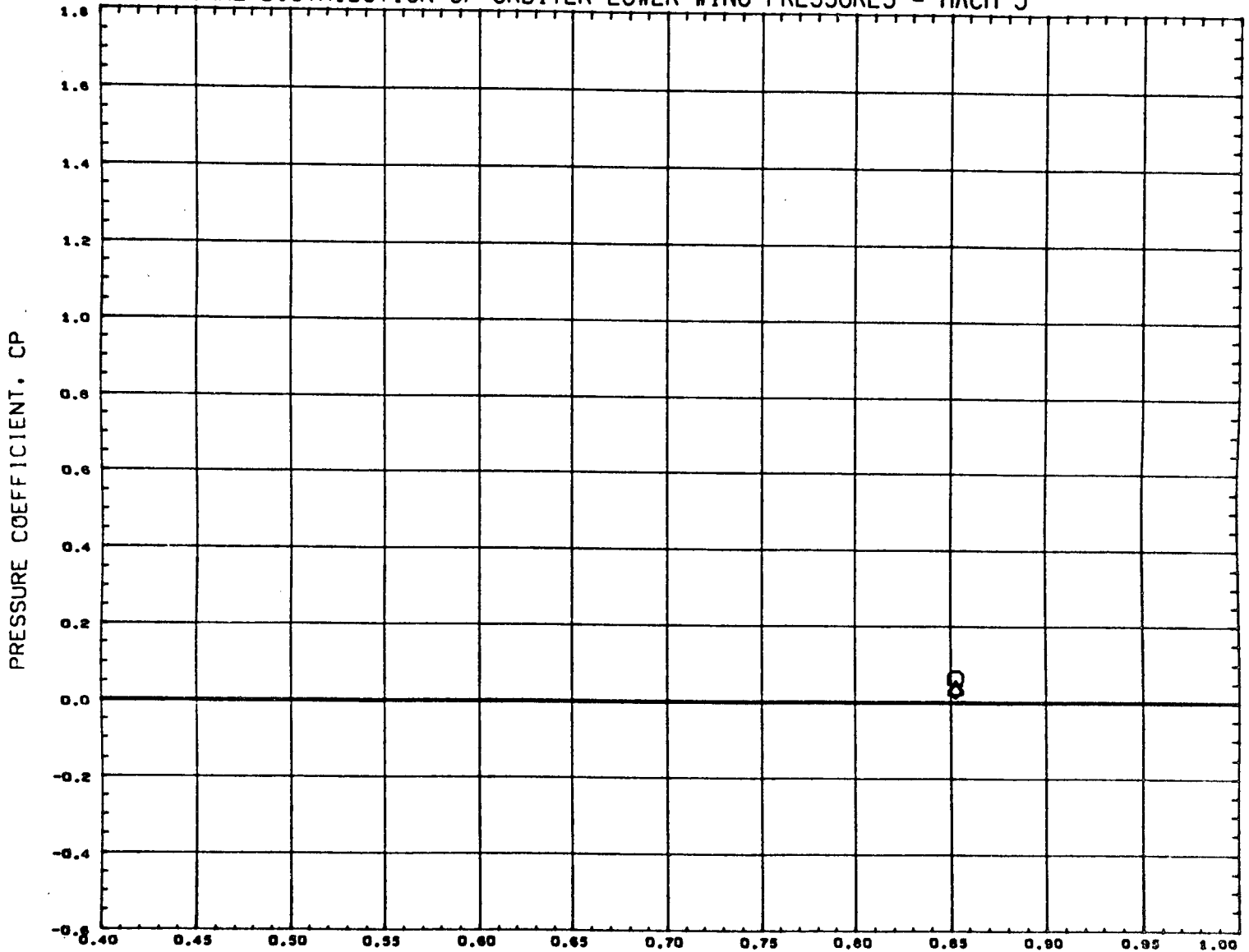
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8541•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.738	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	9.920	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

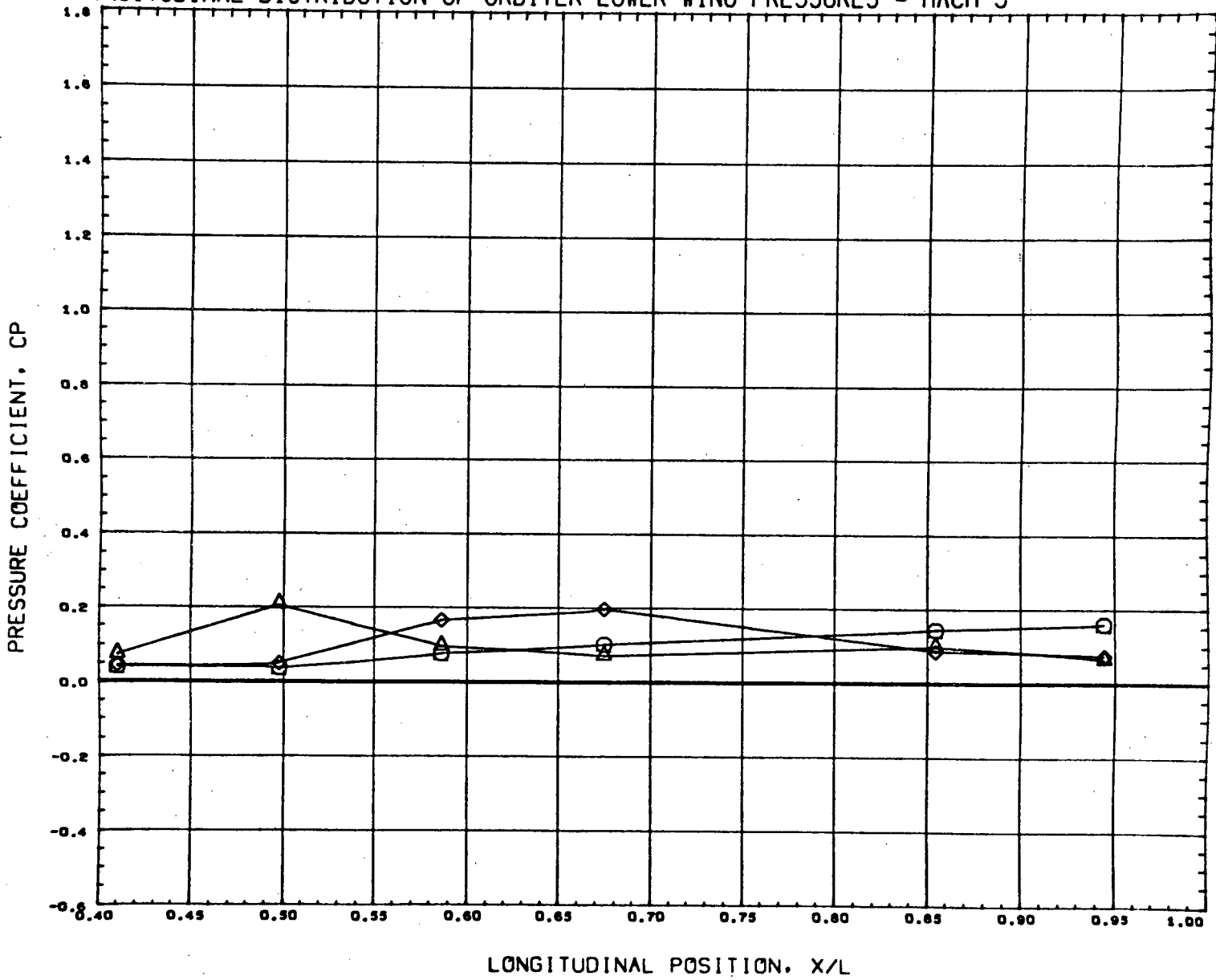
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8541•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.130
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.896	MACH	4.970
ALPHA1	5.000	ORBPOW	100.000
BSTPOW	50.000		

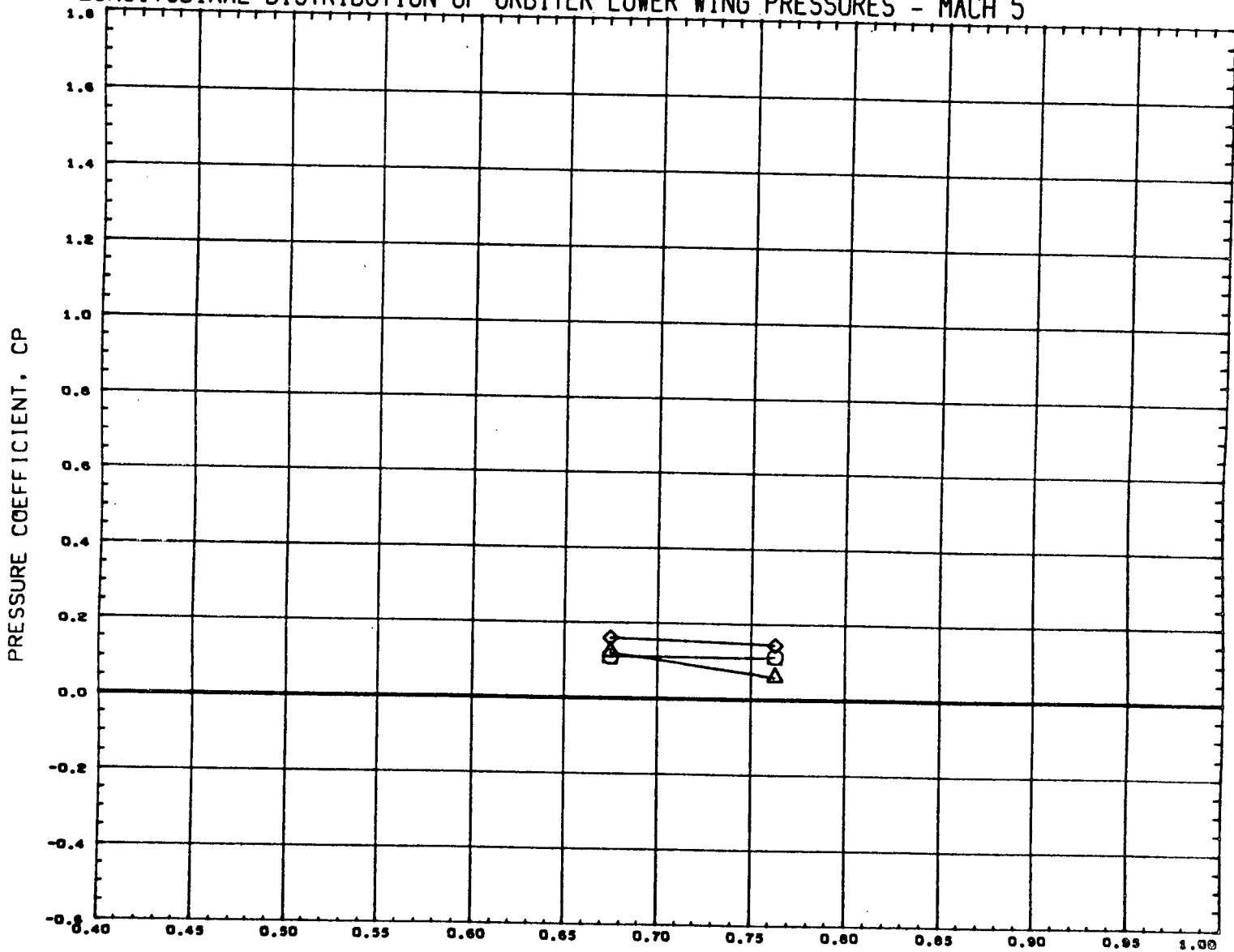
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.896	MACH	4.970
ALPHA1	5.000	ORBPOW	100.000
BSTPOW	50.000		

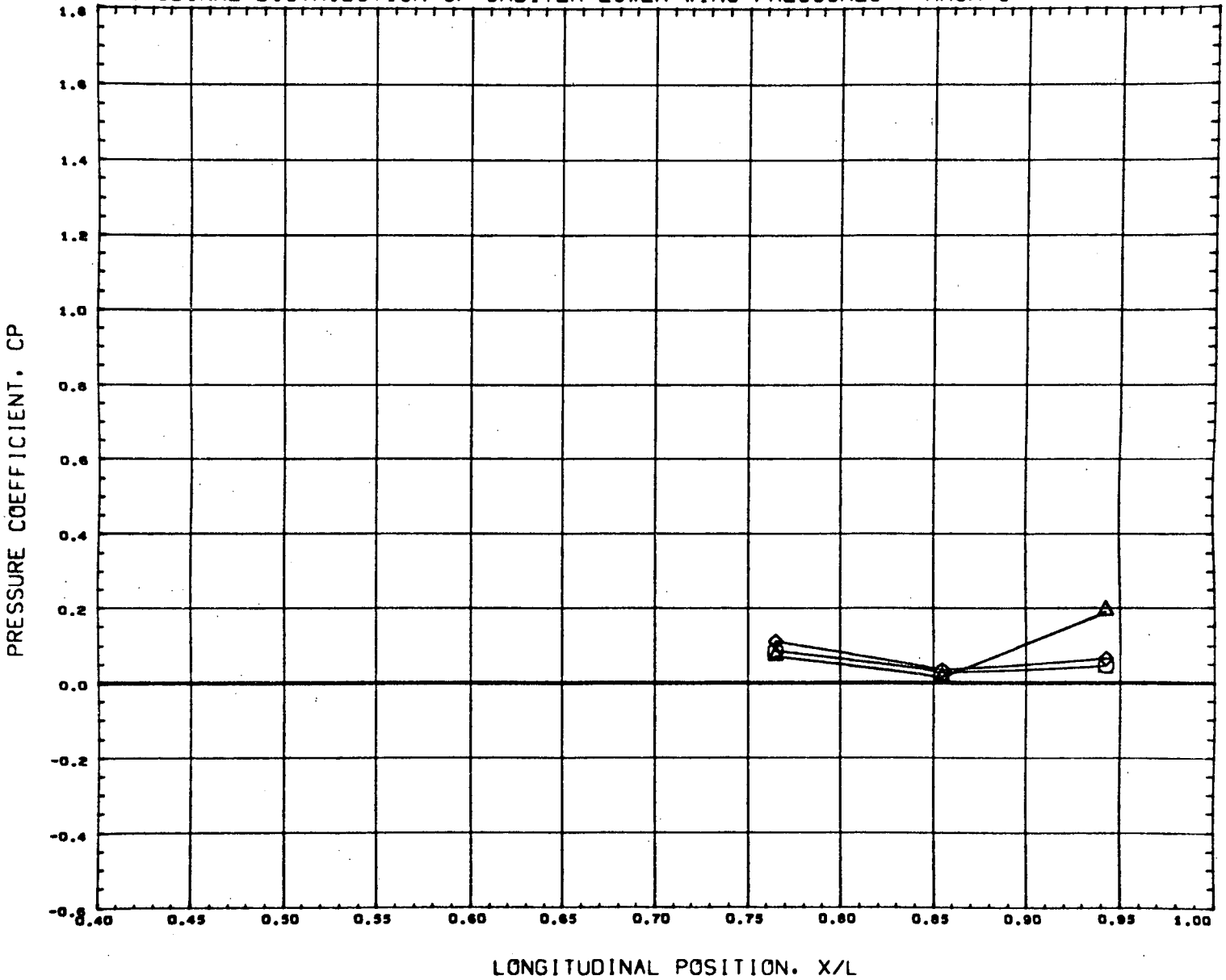
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.568	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.896	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

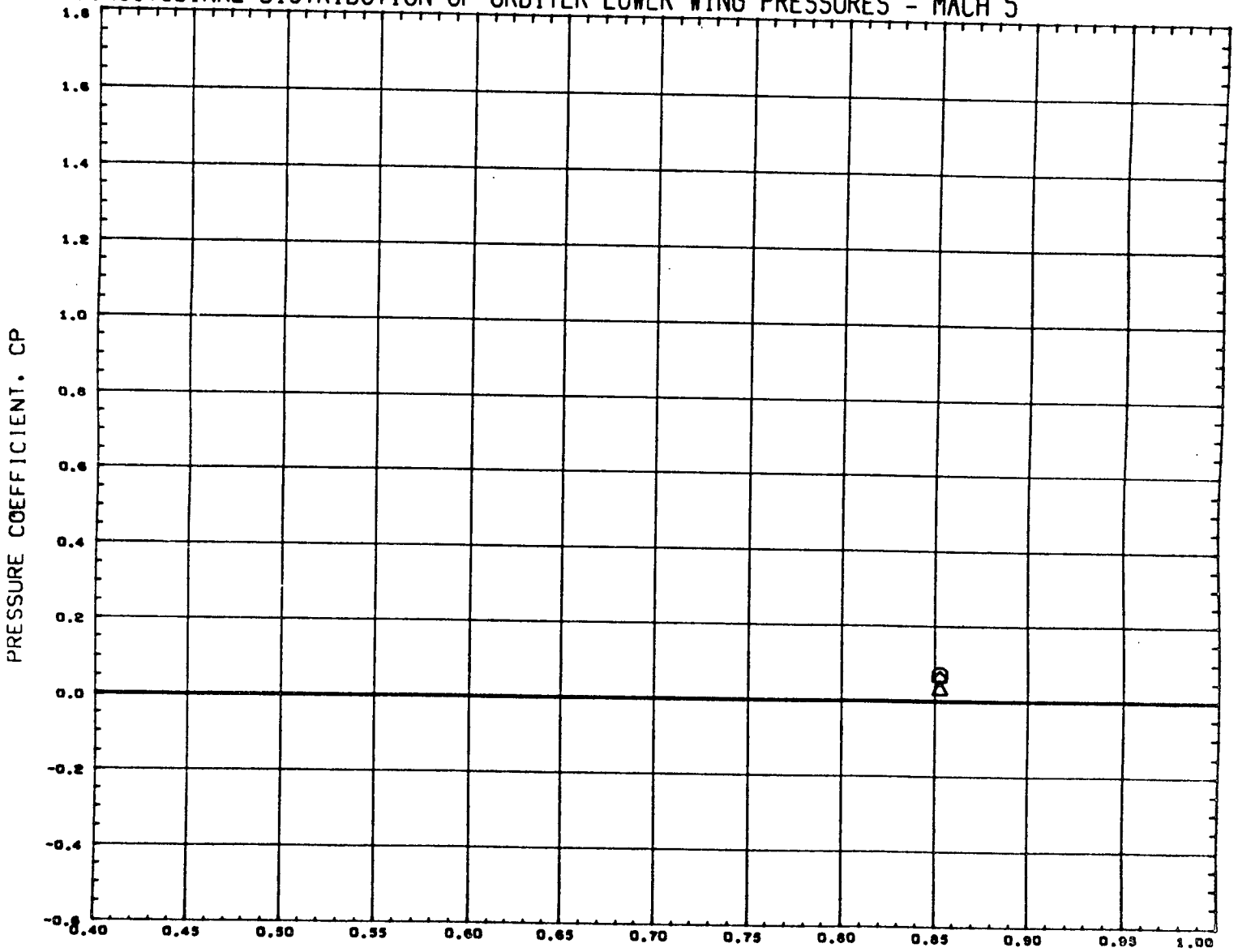
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.738	0.150
△	0.103		
◇	0.228		

PARAMETRIC VALUES			
ALPHAB	- 4.896	MACH	4.970
ALPHA1	5.000	ORBPOW	100.000
BSTPOW	50.000		

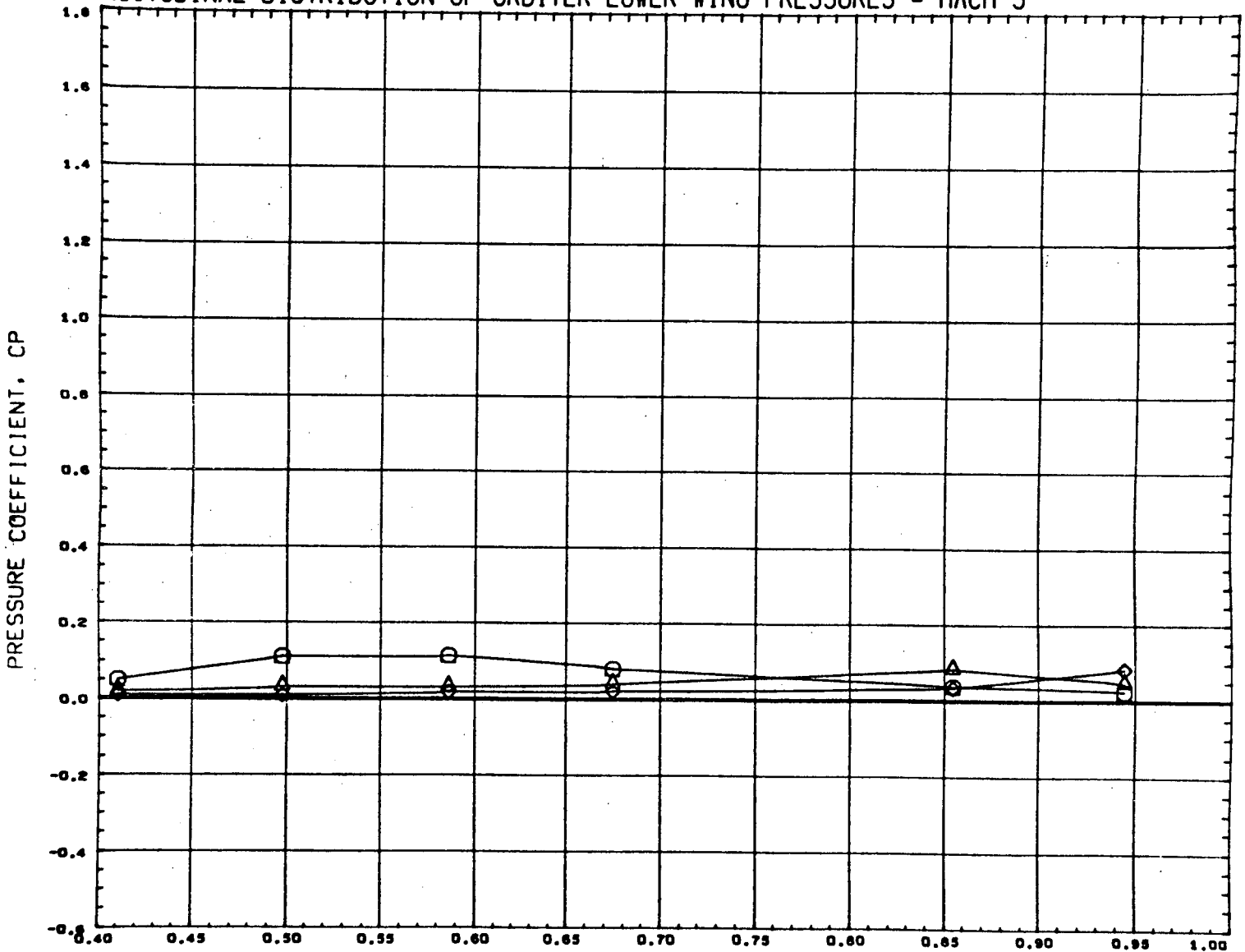
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.696	MACH	4.970
ALPHA1	5.000	ORBPOW	100.000
BSTPOW	50.000		

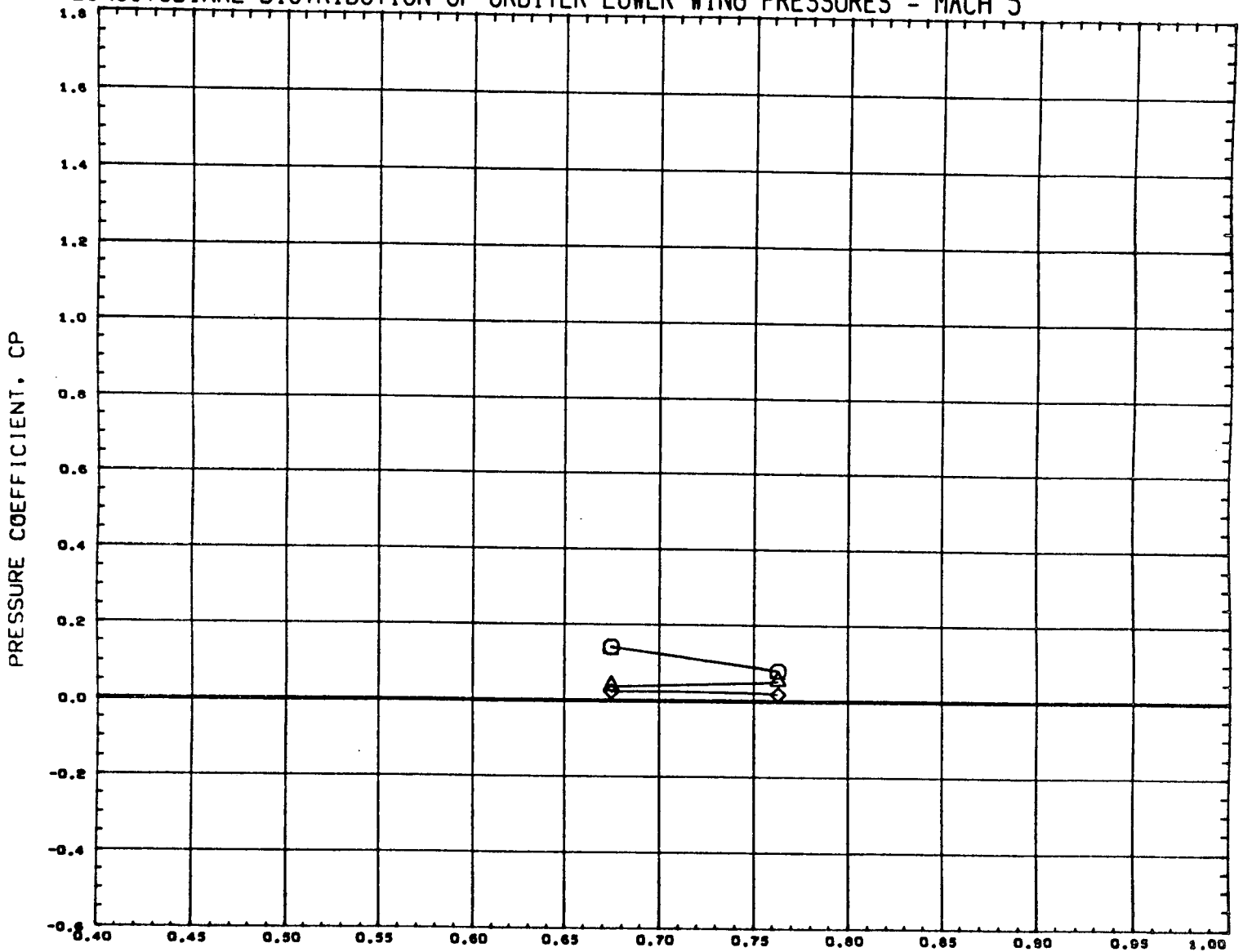
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



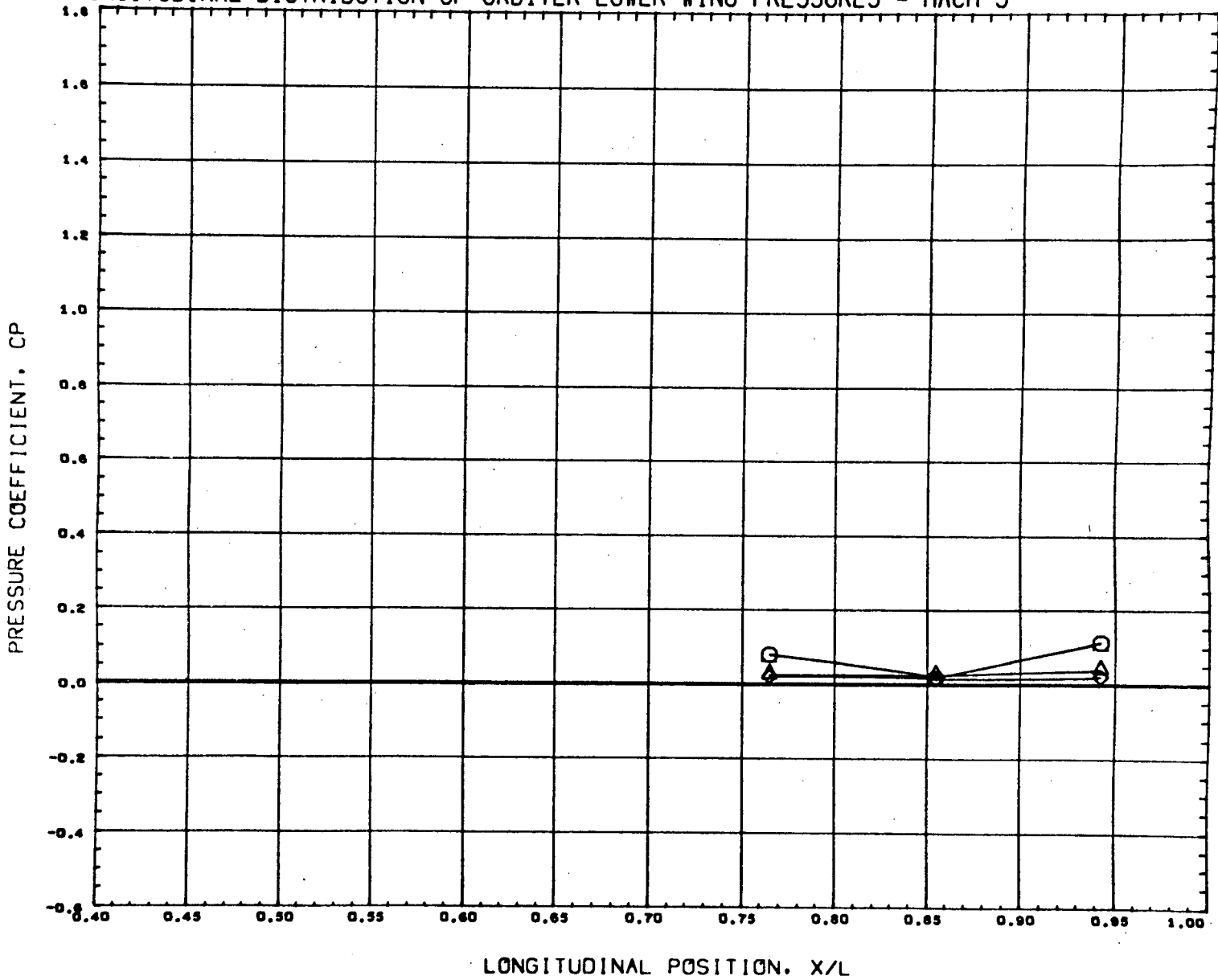
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.896	MACH	4.970
ALPHA1	3.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

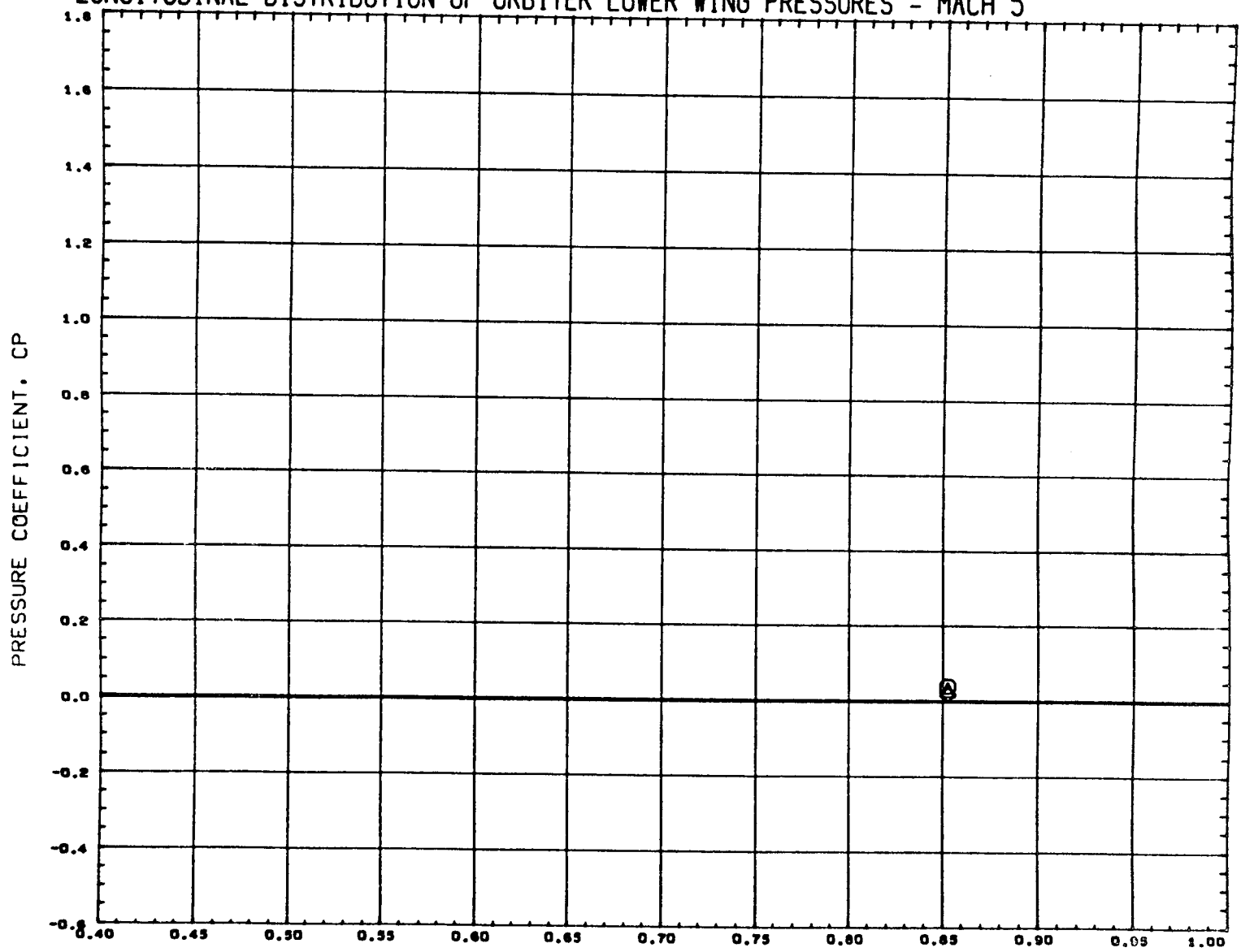


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.568	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.896	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



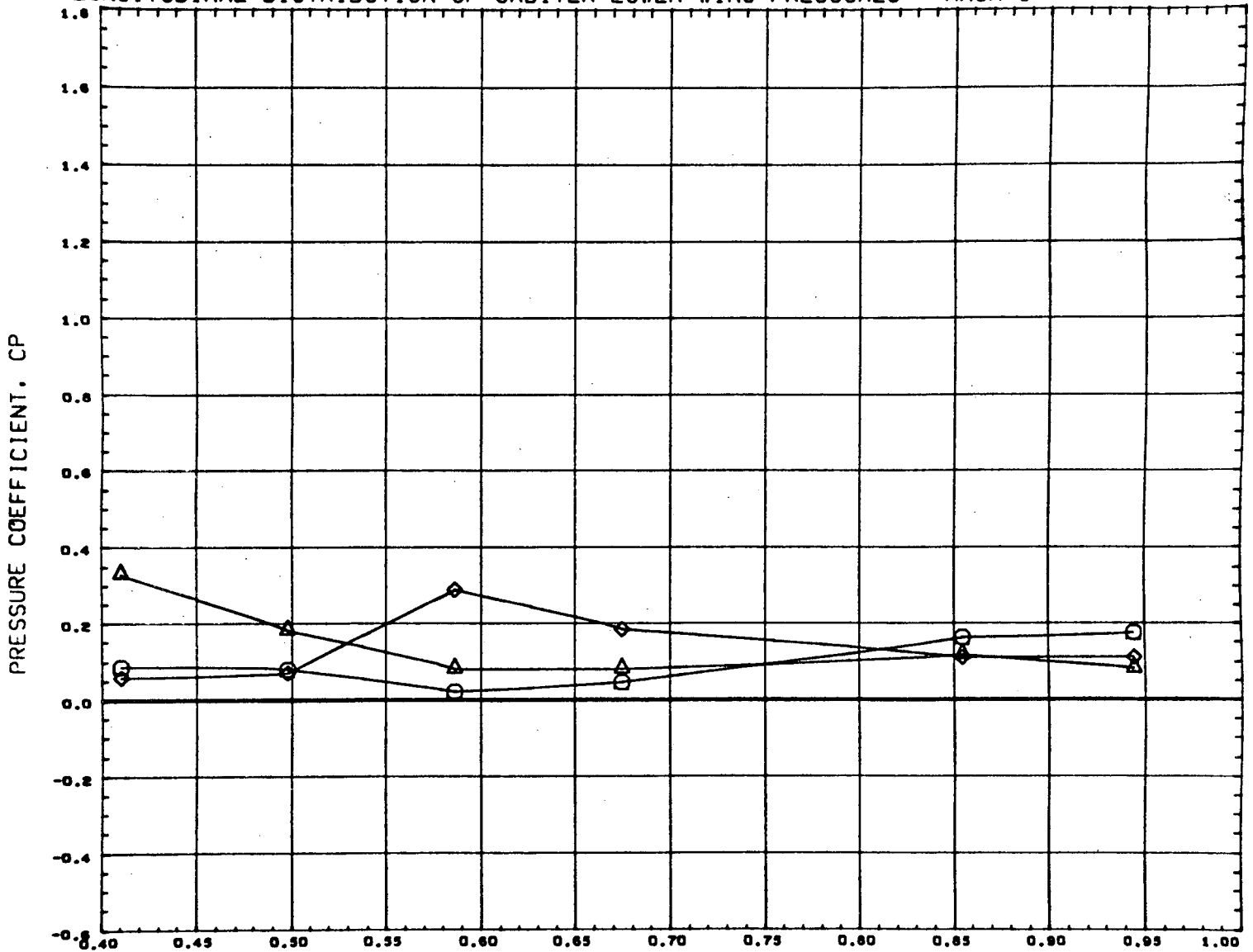
SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.736	0.227
△	0.103		
◇	0.226		

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	4.896	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	0.055	MACH 4.970
ALPHA1	5.000	ORSPW 100.000
BSTPOW	50.000	

REFERENCE FILE

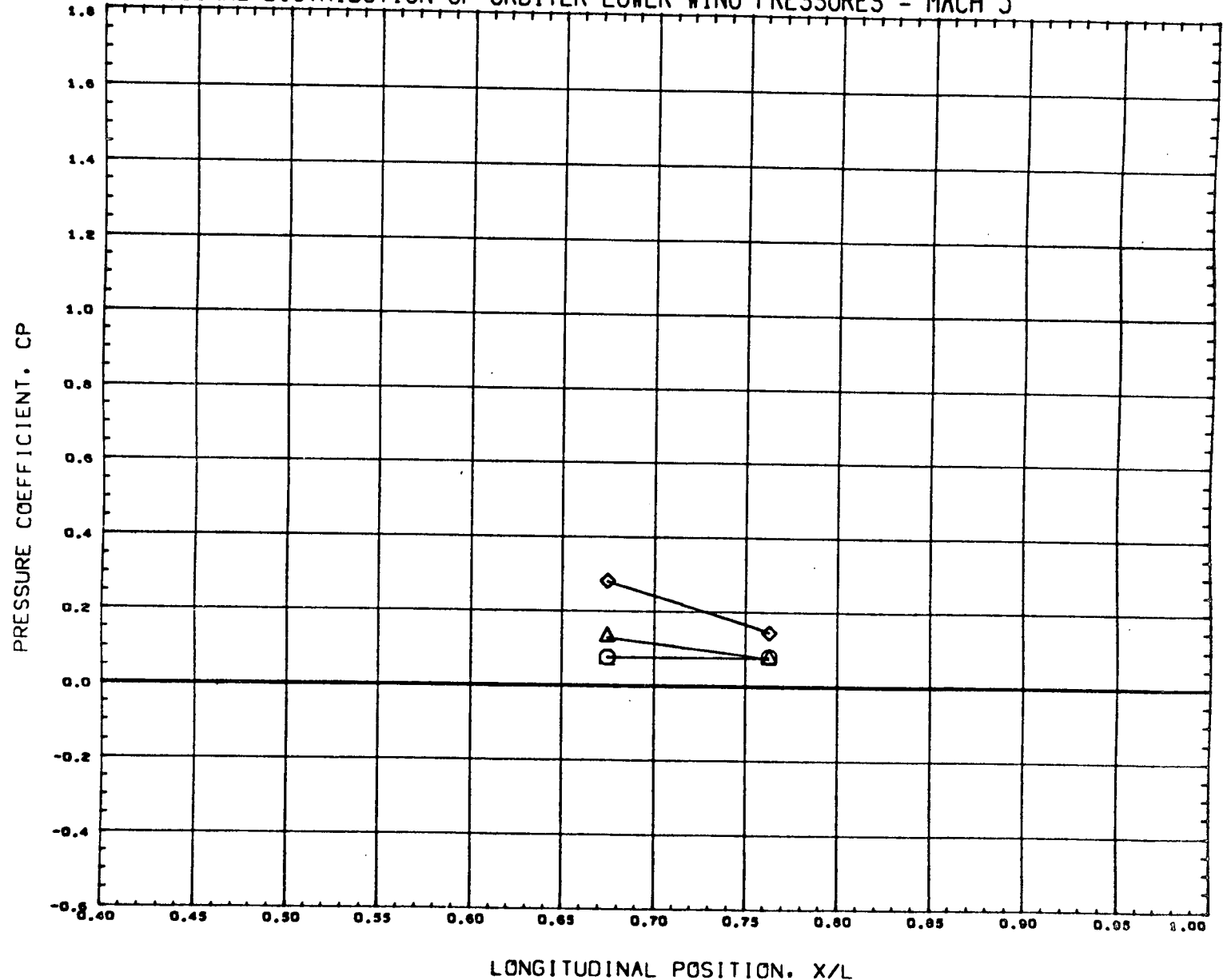
AEDC VA1163 MDAC ORBITER (LOWER WING)

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0.6

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

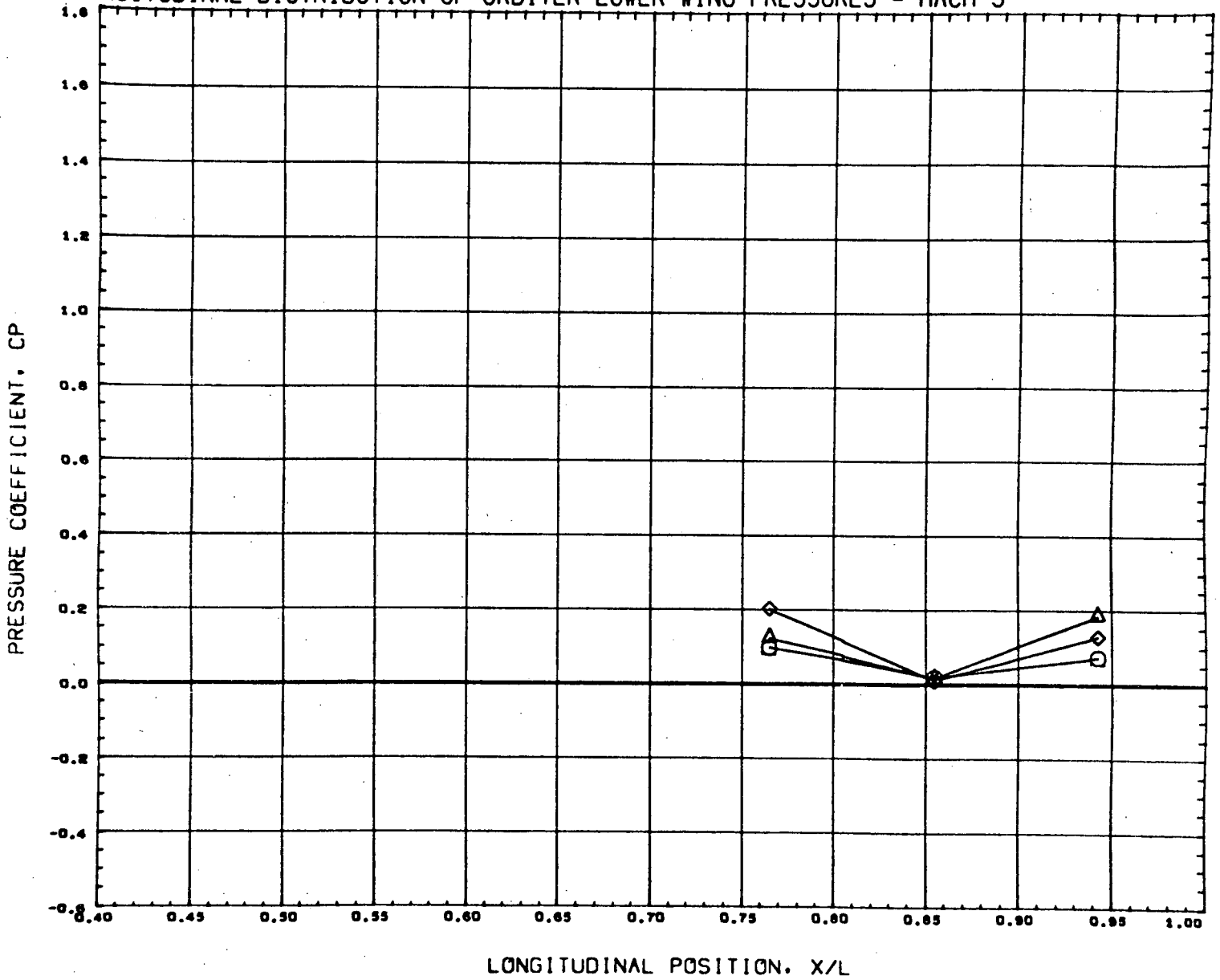


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.055	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.569	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.055	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

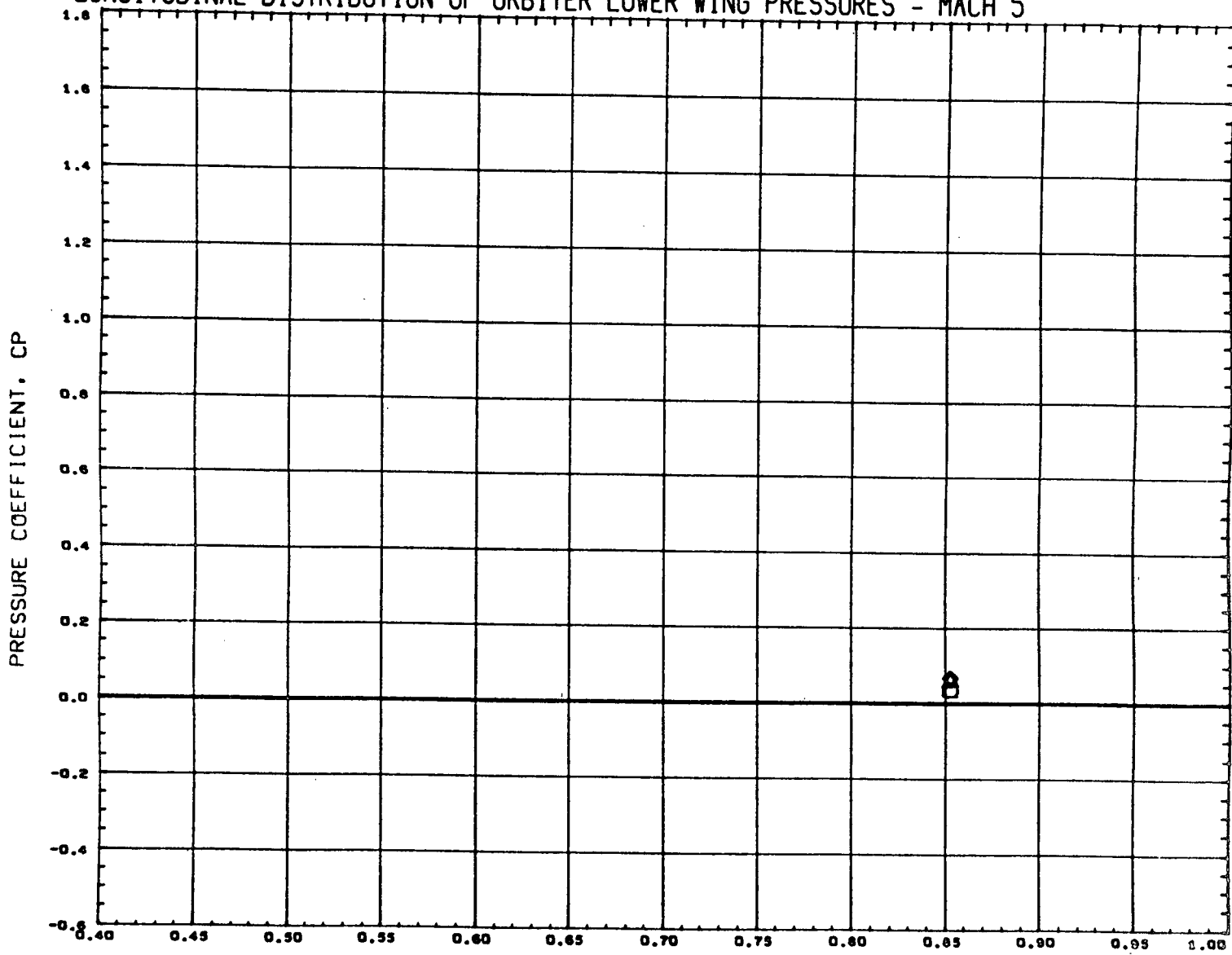
REFERENCE FILE

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.738	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.055	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

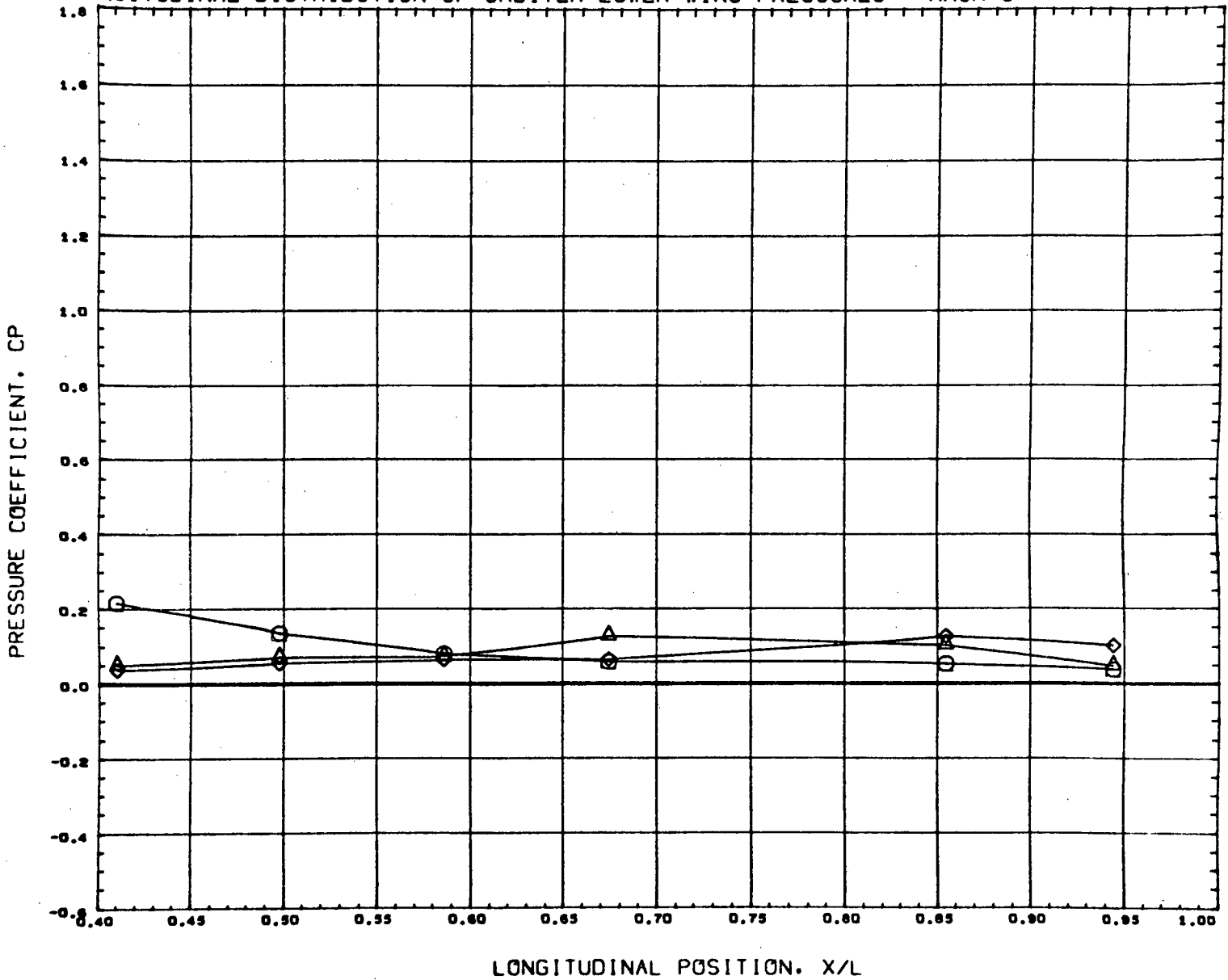
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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	0.055	MACH 4.970
ALPHA I	3.000	ORBPOW 100.000
BSTPOW	50.000	

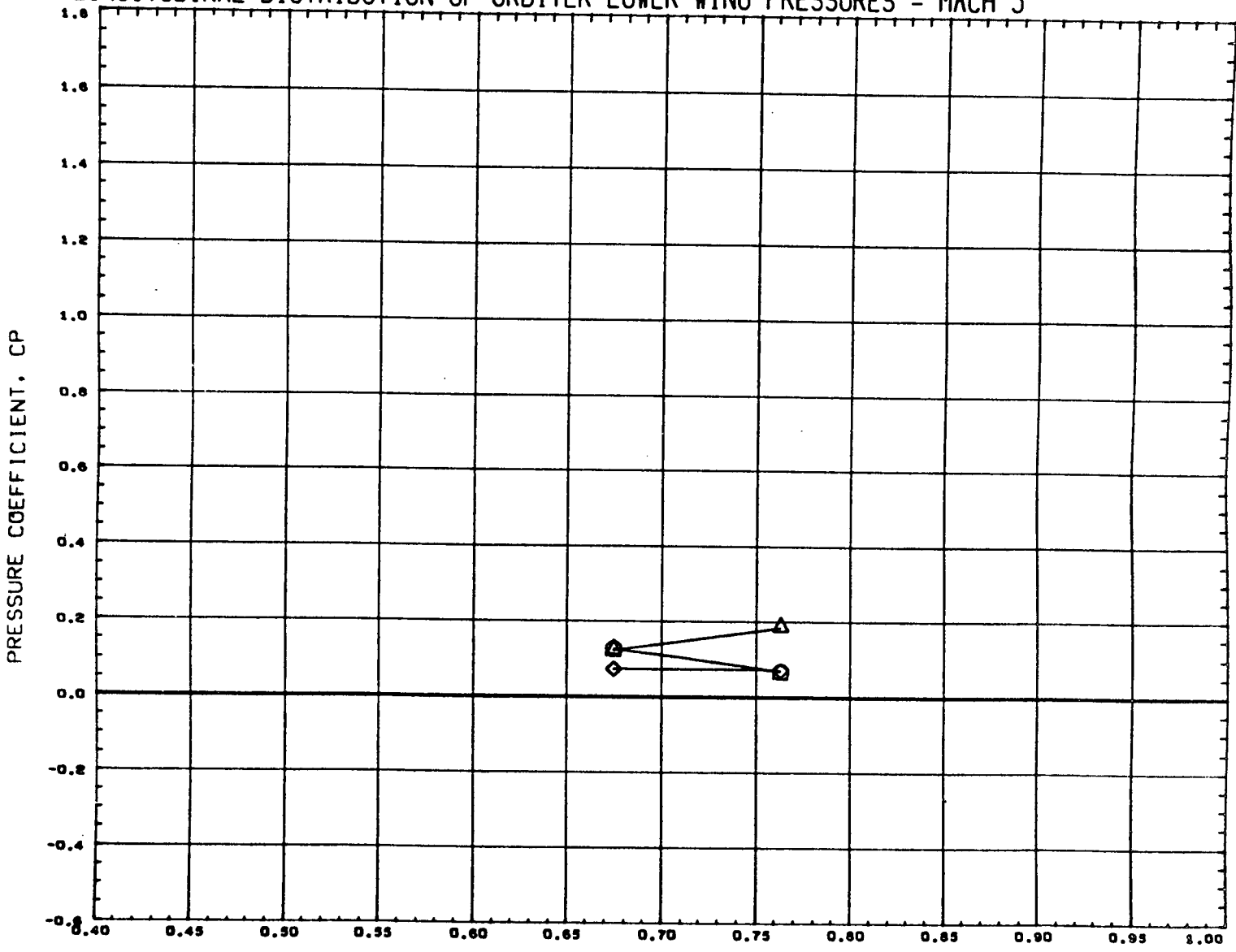
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.035	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

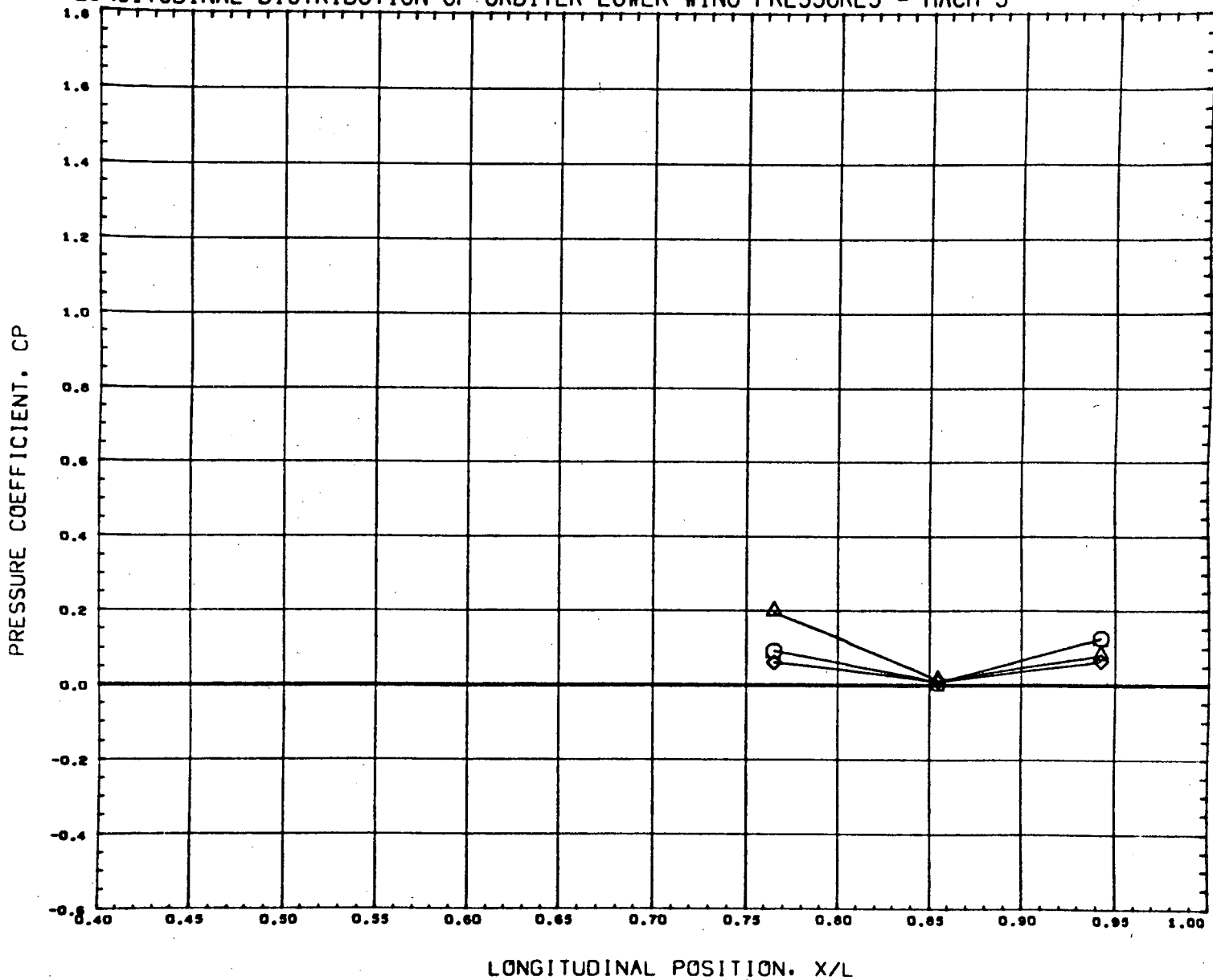
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

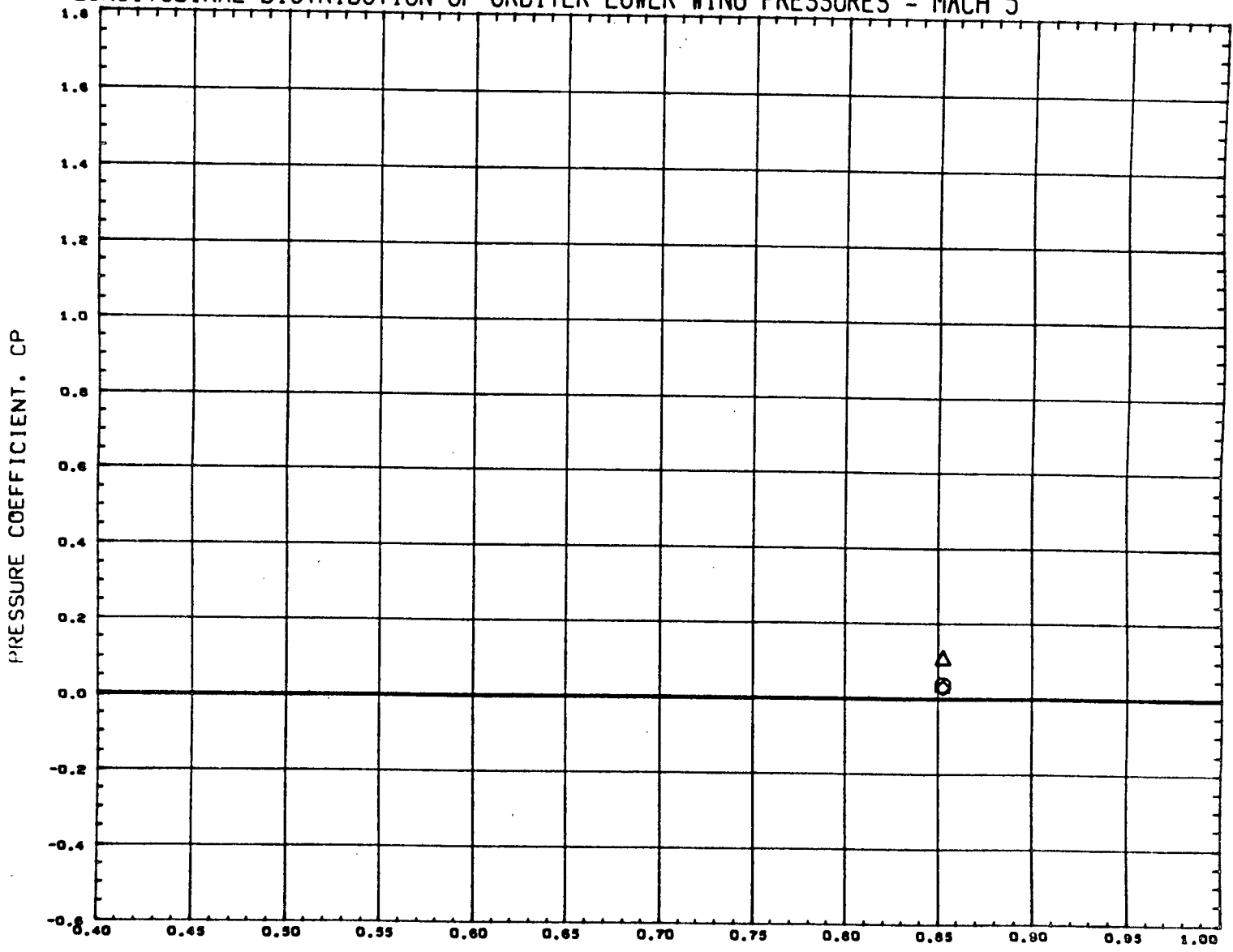


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.569	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.055	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.739	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.055	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

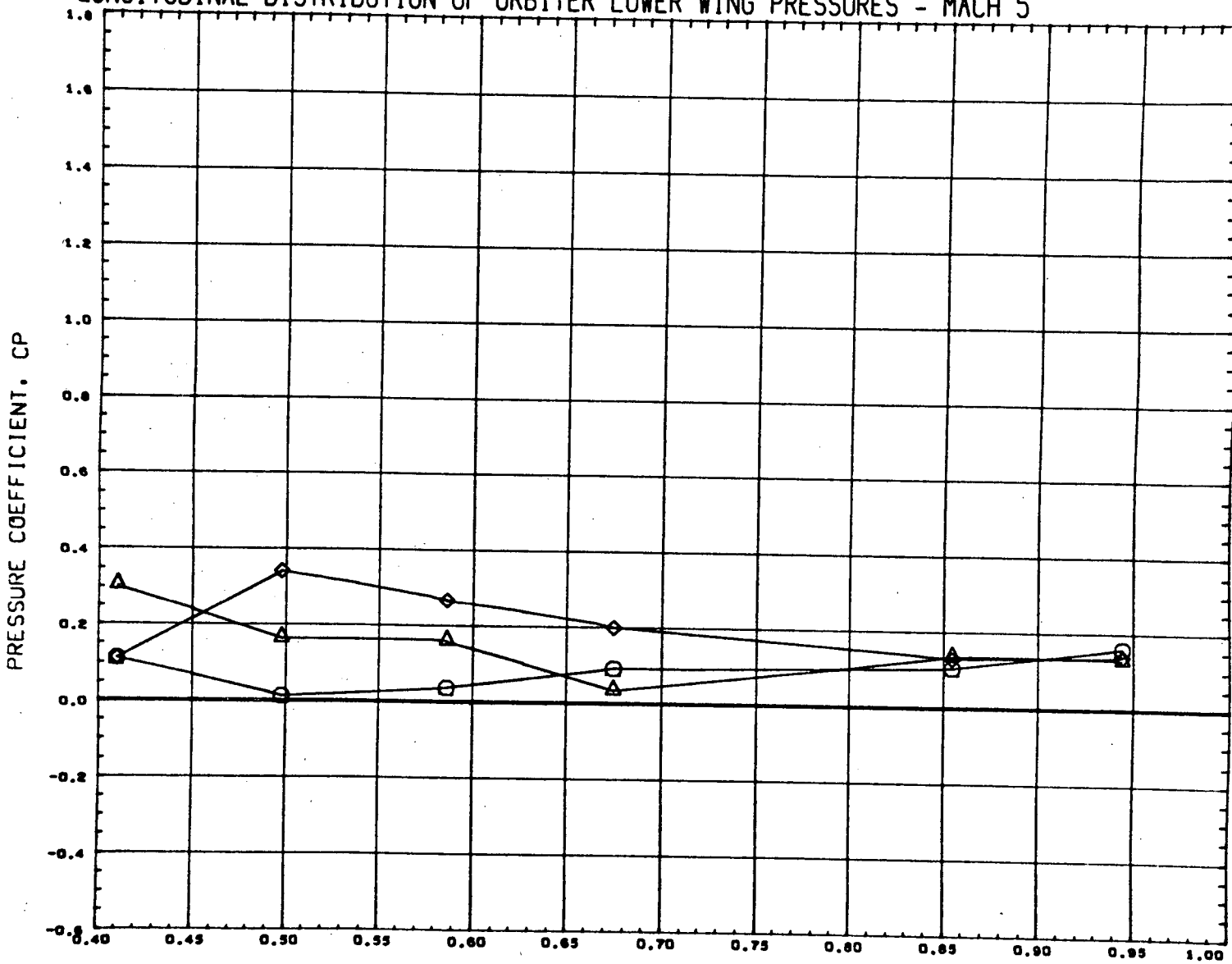
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.130
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	5.051	MACH 4.970
ALPHA1	5.000	ORBPOW 100.000
BSTPOW	50.000	

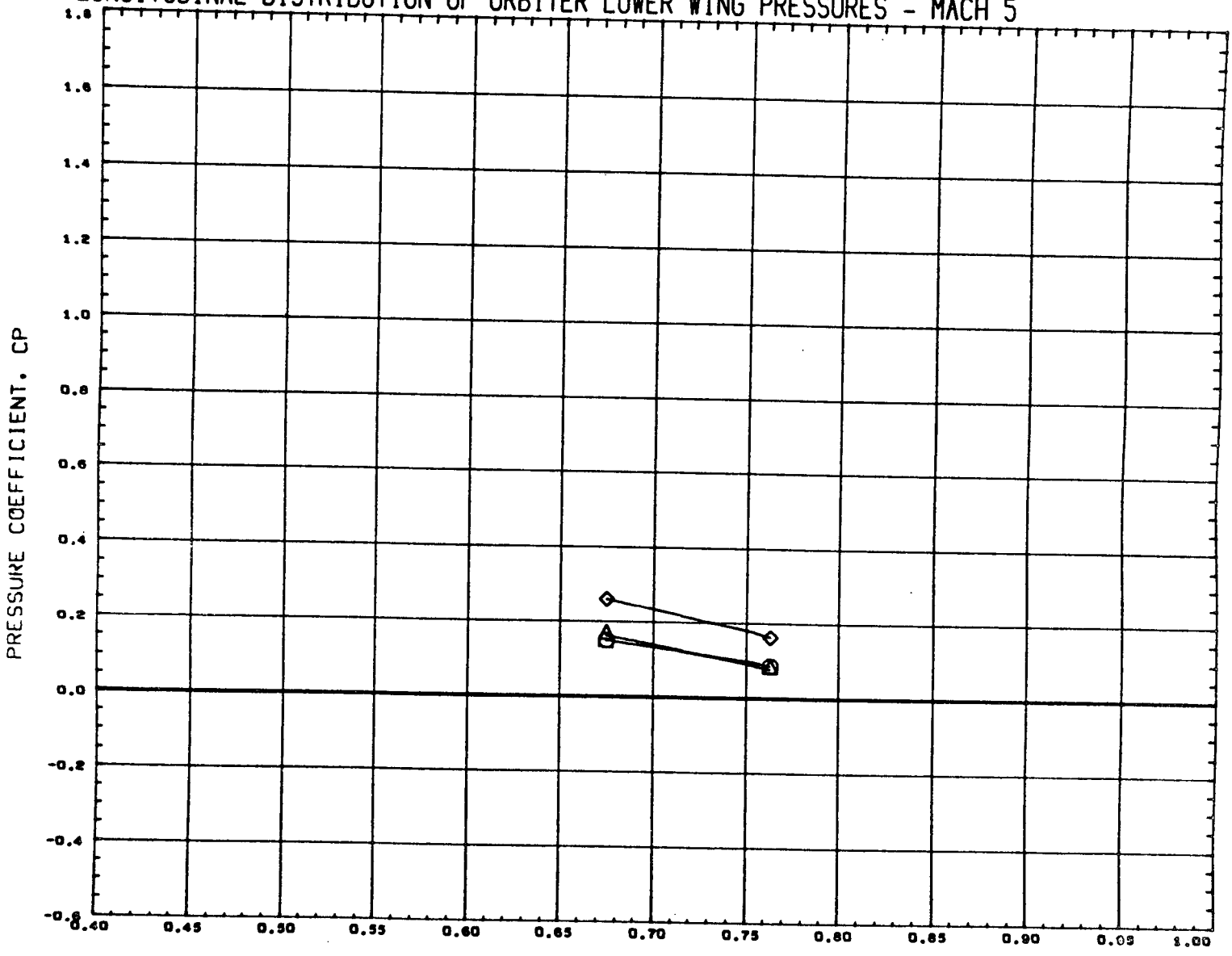
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.051	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

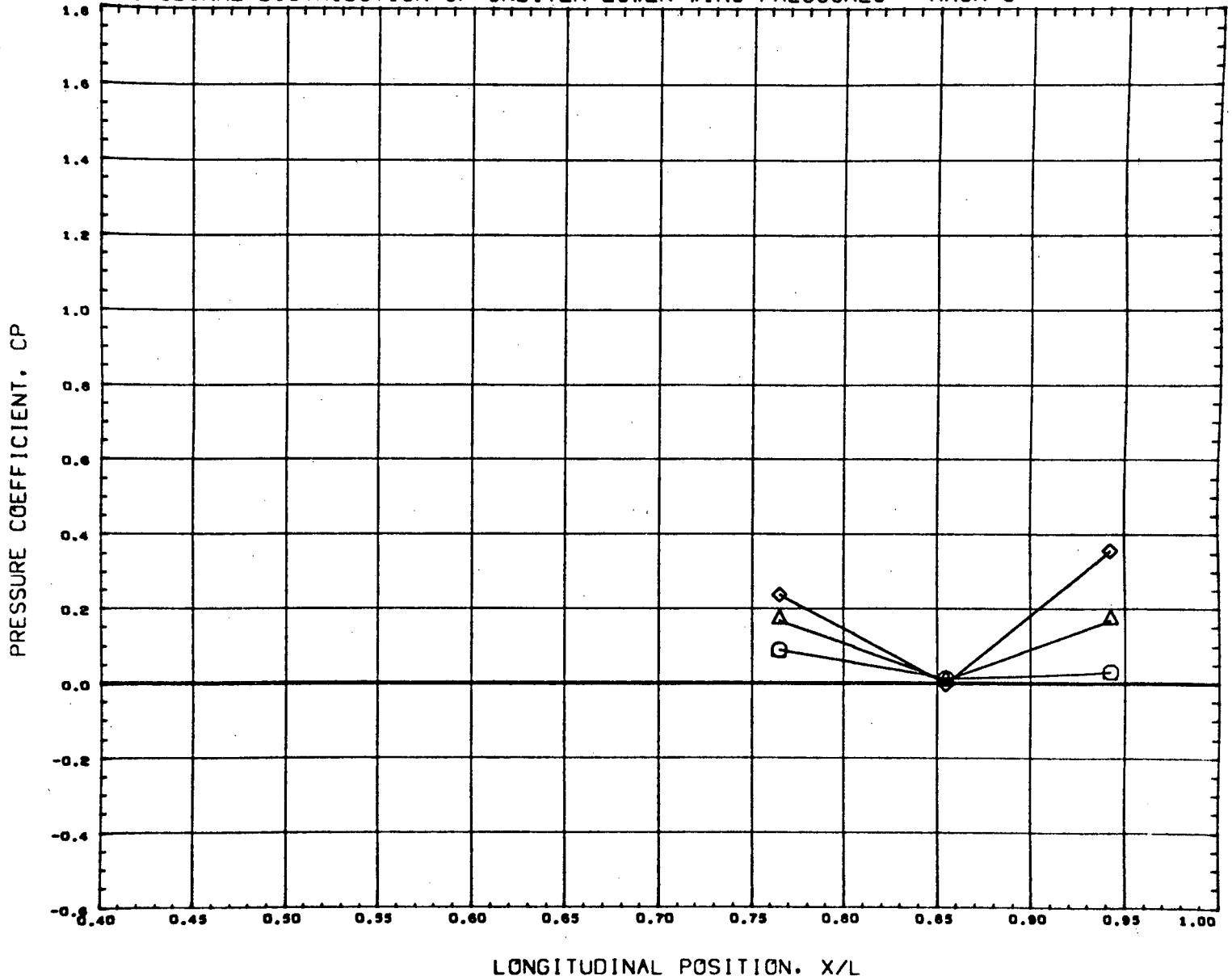
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8544•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.566	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	5.051	MACH 4.970
ALPHA1	5.000	ORBPOW 100.000
BSTPOW	50.000	

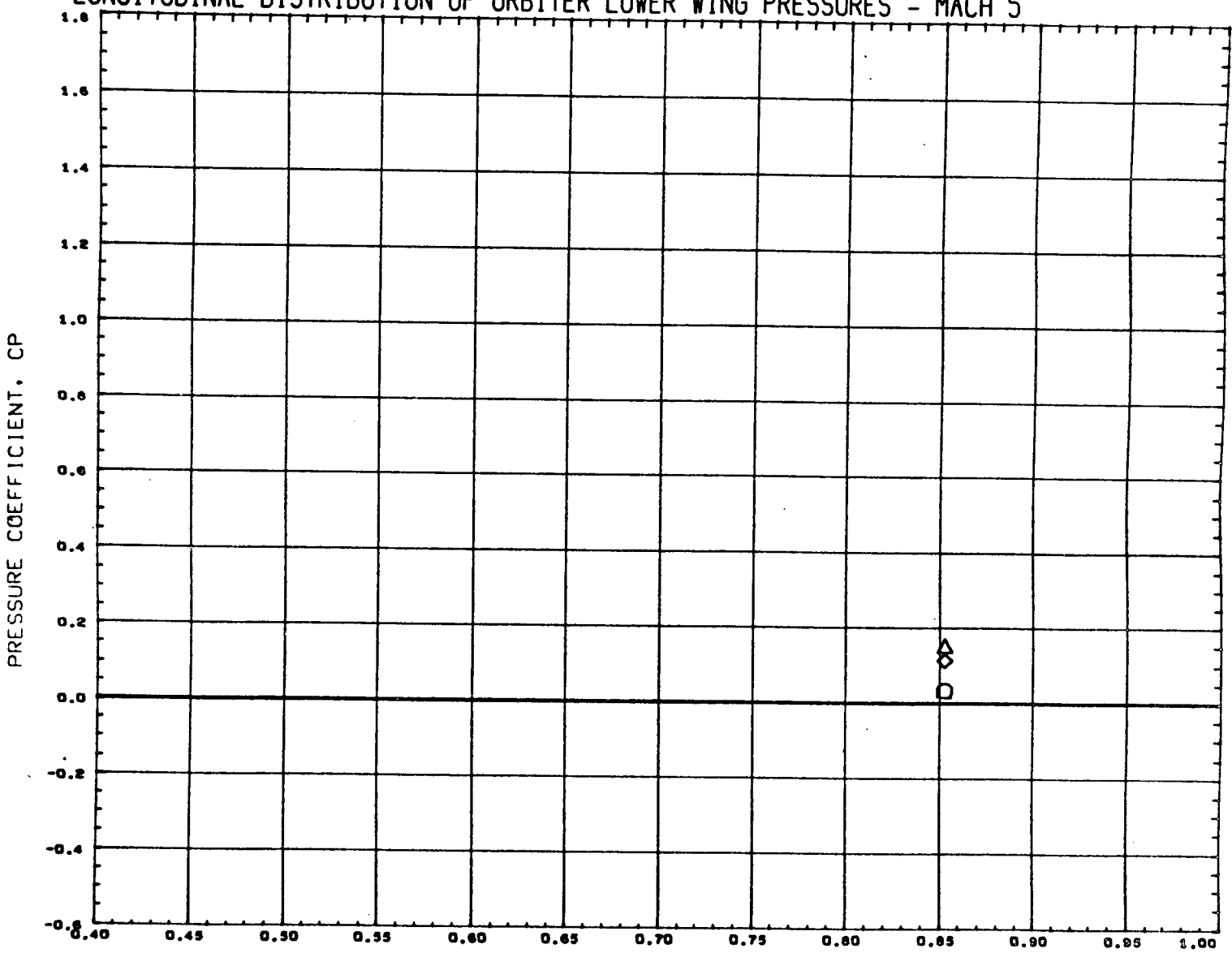
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



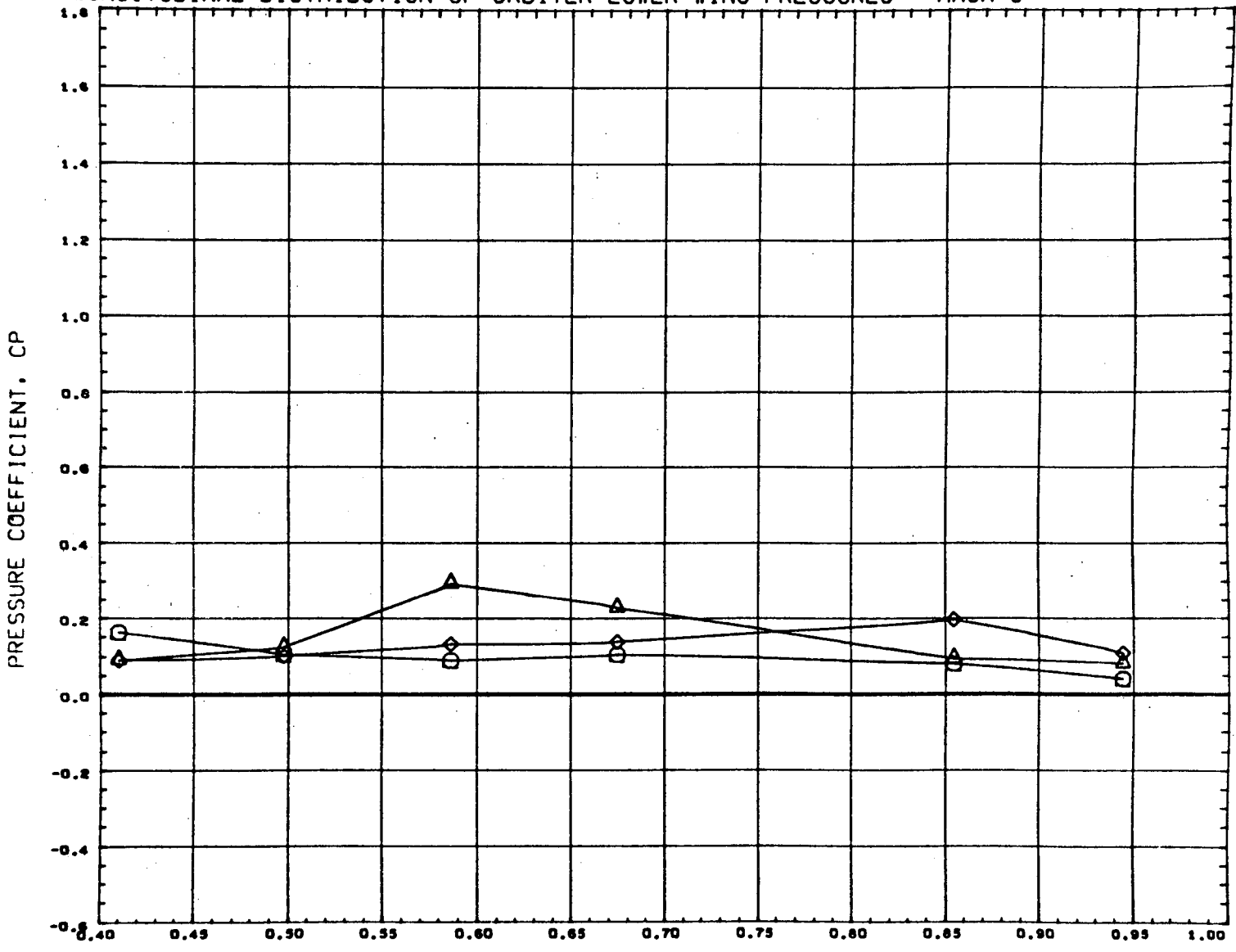
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.738	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.051	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



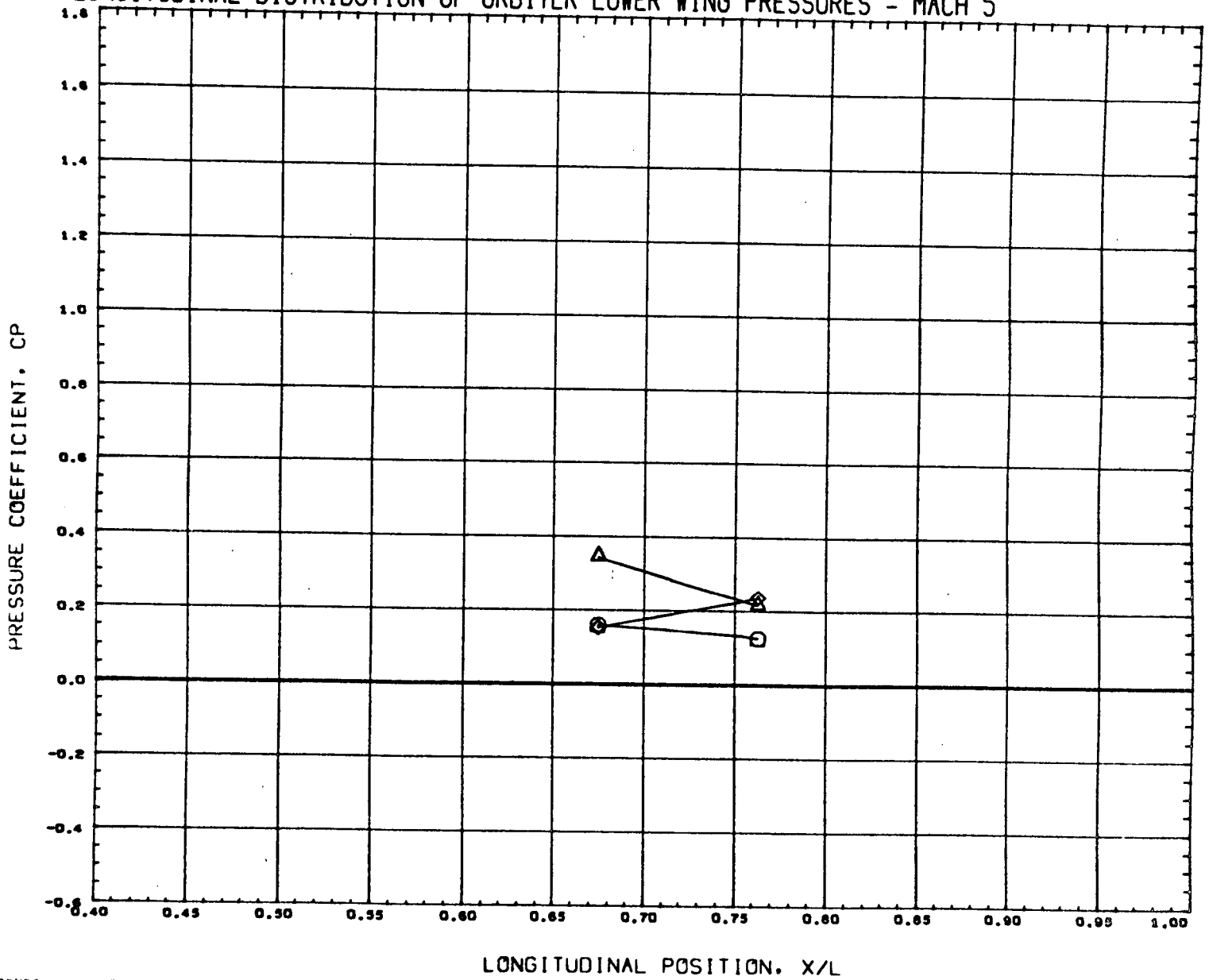
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.227
△	0.193		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.051	MACH	4.970
ALPHA1	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.051	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

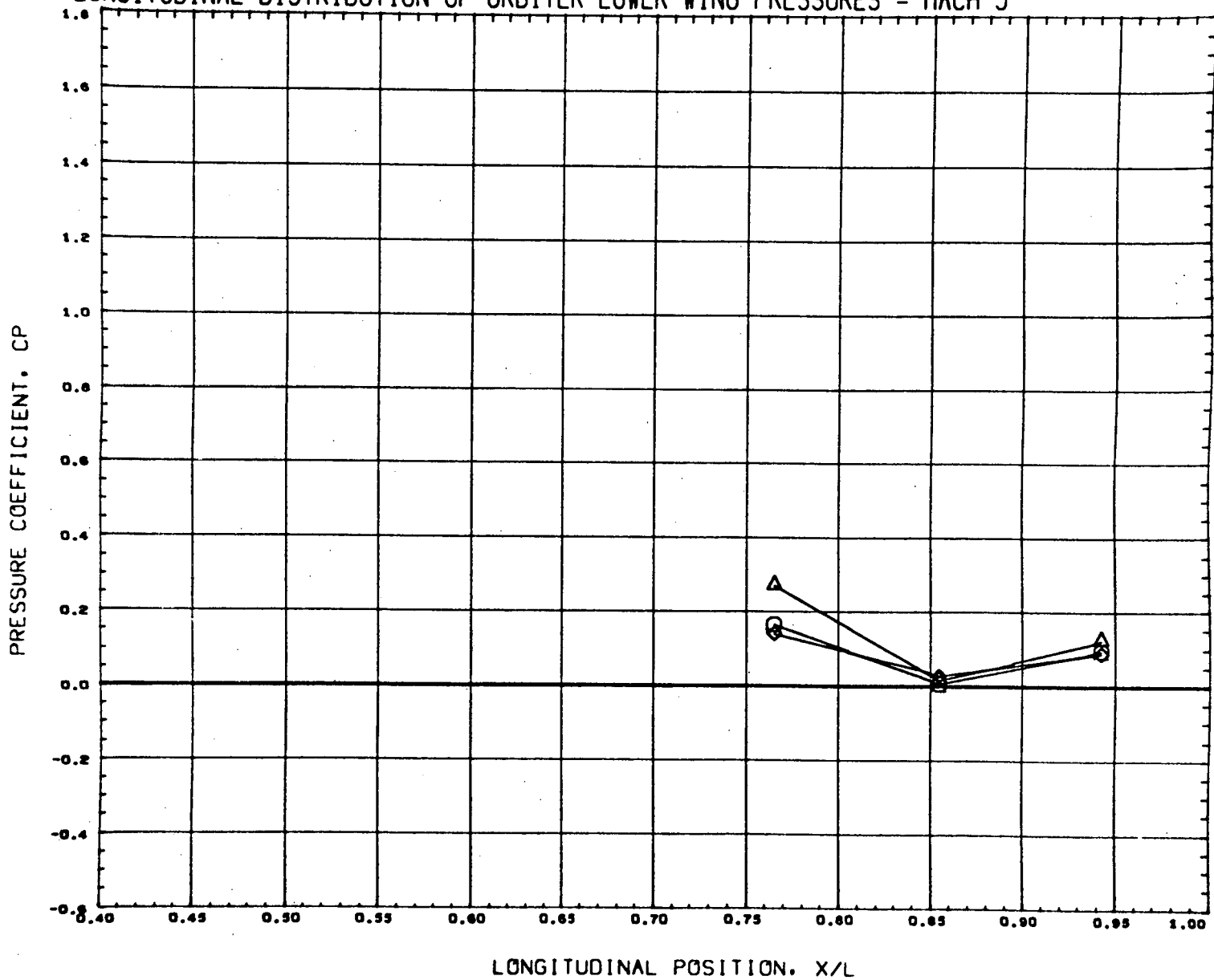
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8544•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.569	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	5.031	MACH 4.970
ALPHA1	5.000	ORBPOW 100.000
BSTPOW	50.000	

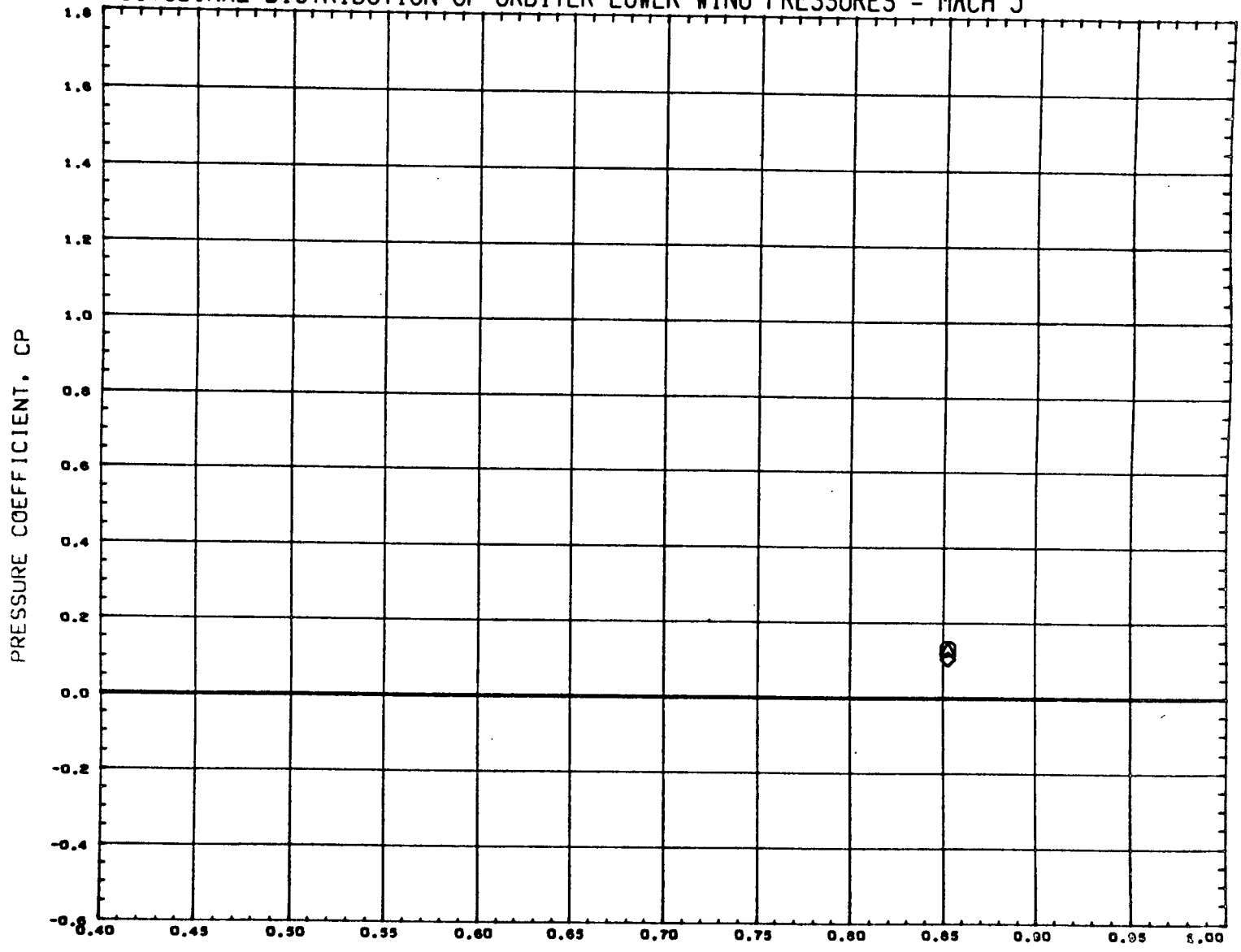
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8544•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

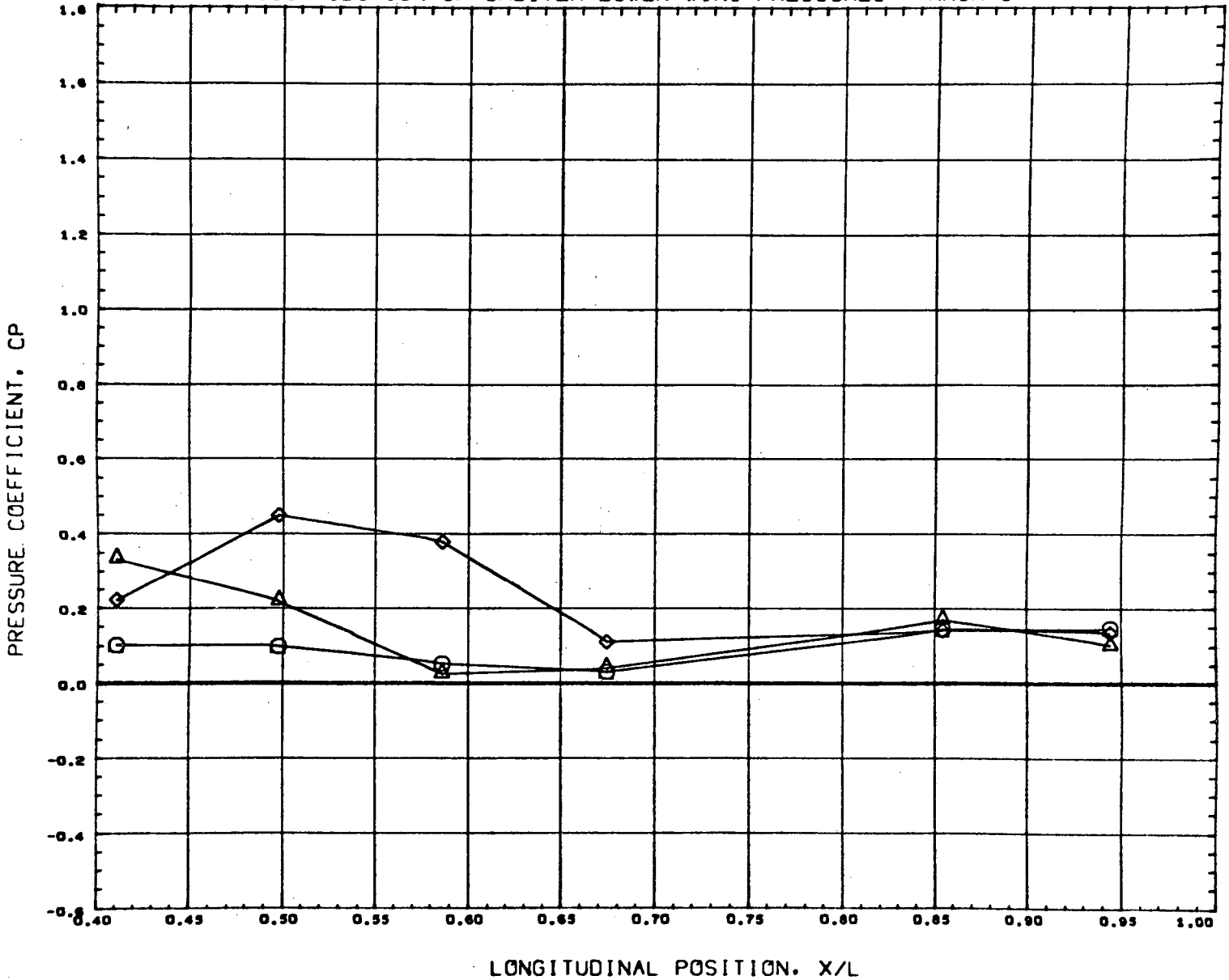


SYMBOL	DELTA X	Y/B	DELTA Z
-	0.144	0.738	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.051	MACH	4.970
ALPHA1	5.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	10.030	MACH	4.970
ALPHAI	5.000	ORBPOW	100.000
BSTPOW	50.000		

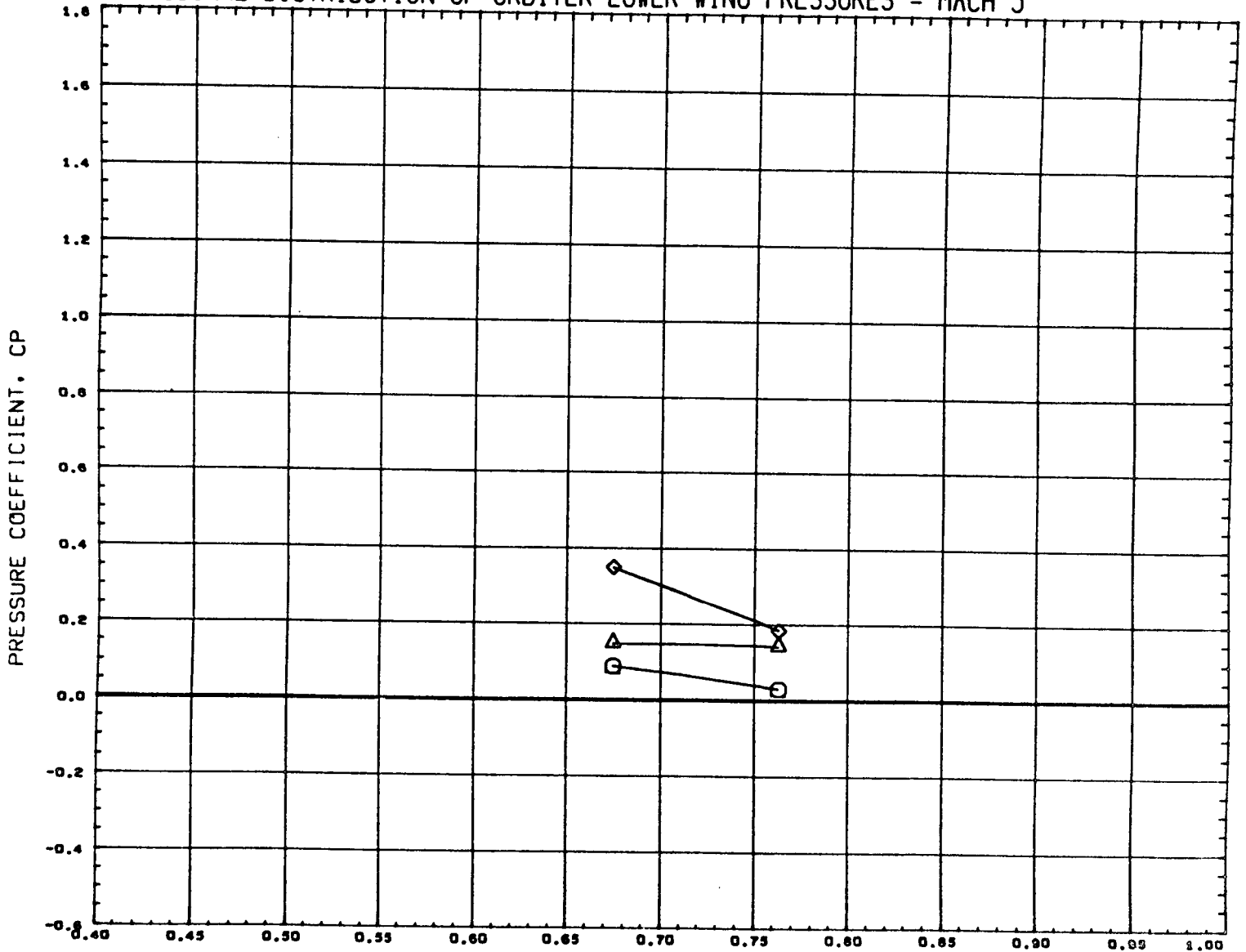
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.144	0.399	0.130
◇	0.103		
○	0.226		

PARAMETRIC VALUES			
ALPHAB	10.050	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	90.000		

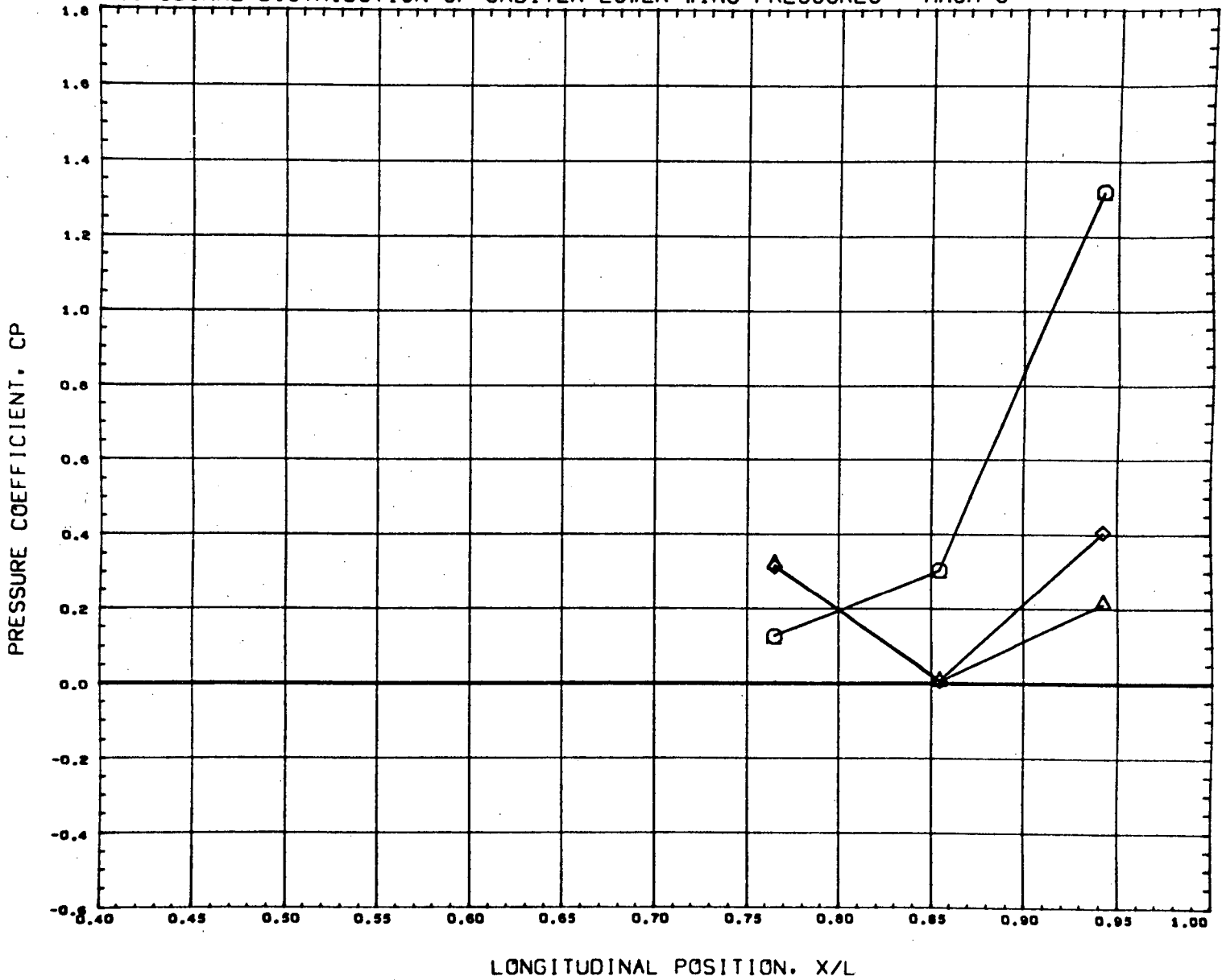
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8545•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.366	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	10.030	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	30.000		

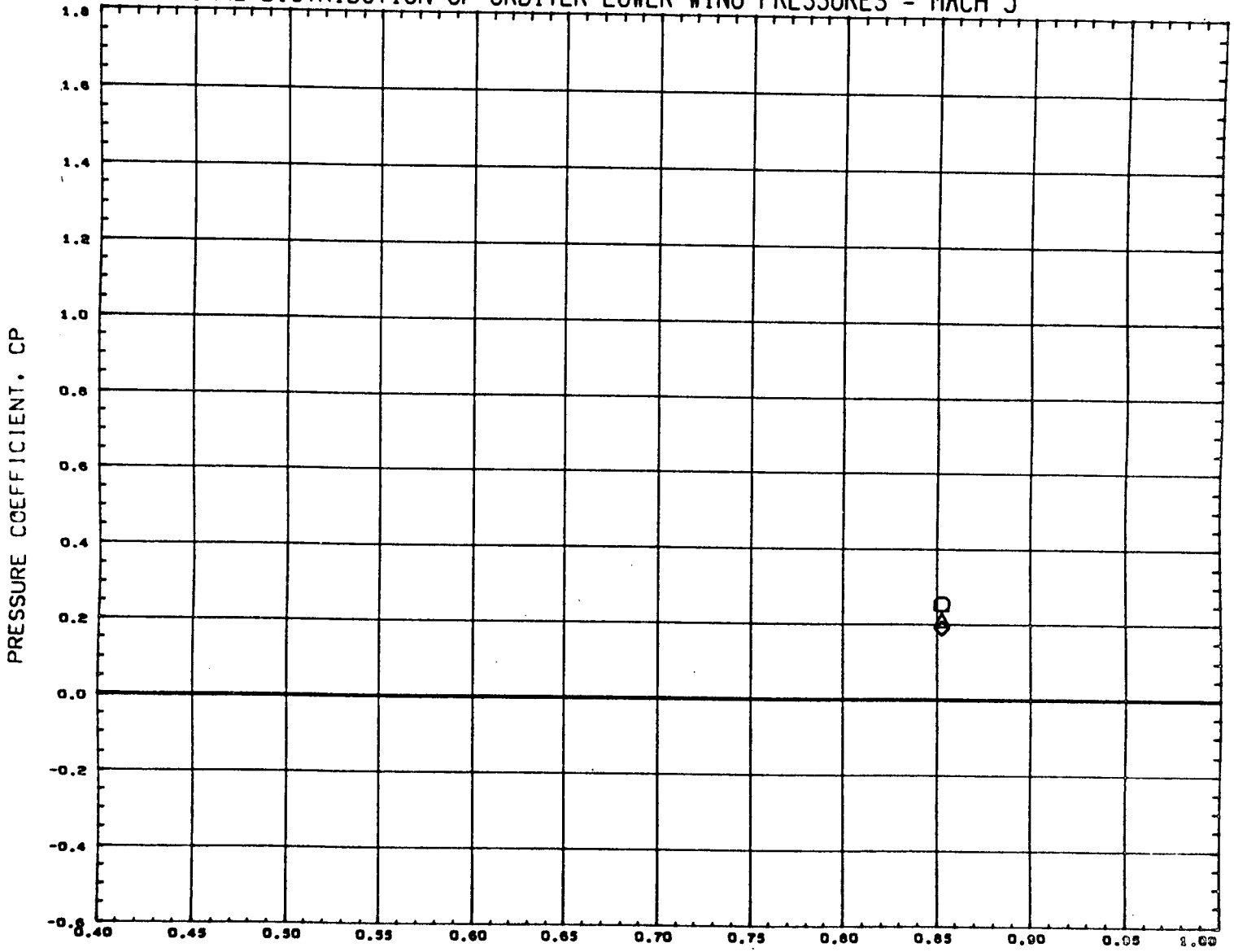
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8545•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.739	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	10.050	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

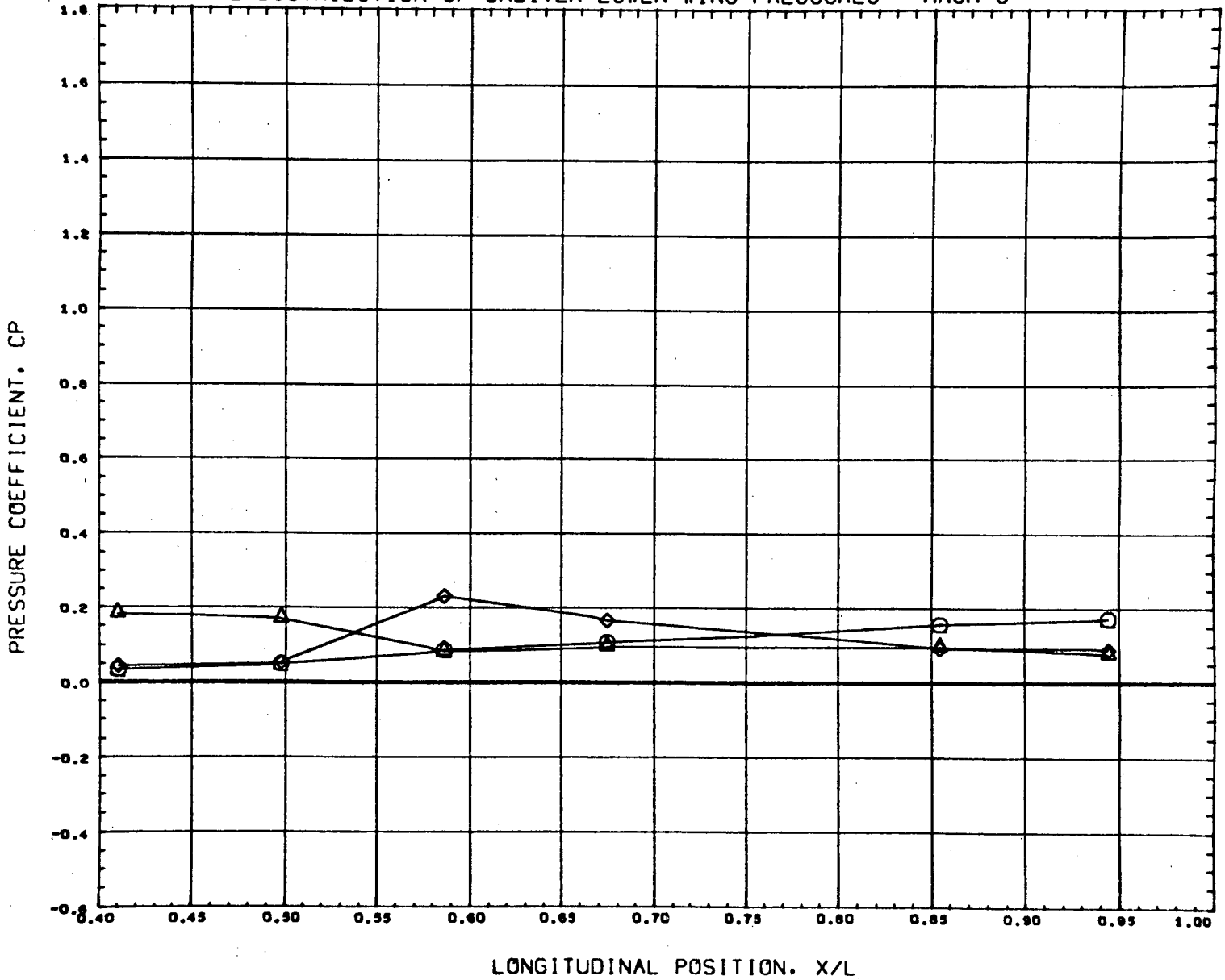
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8545•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.130
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.891	MACH	4.970
ALPHA1	5.000	ORBPOW	0.000
BSTPOW	0.000		

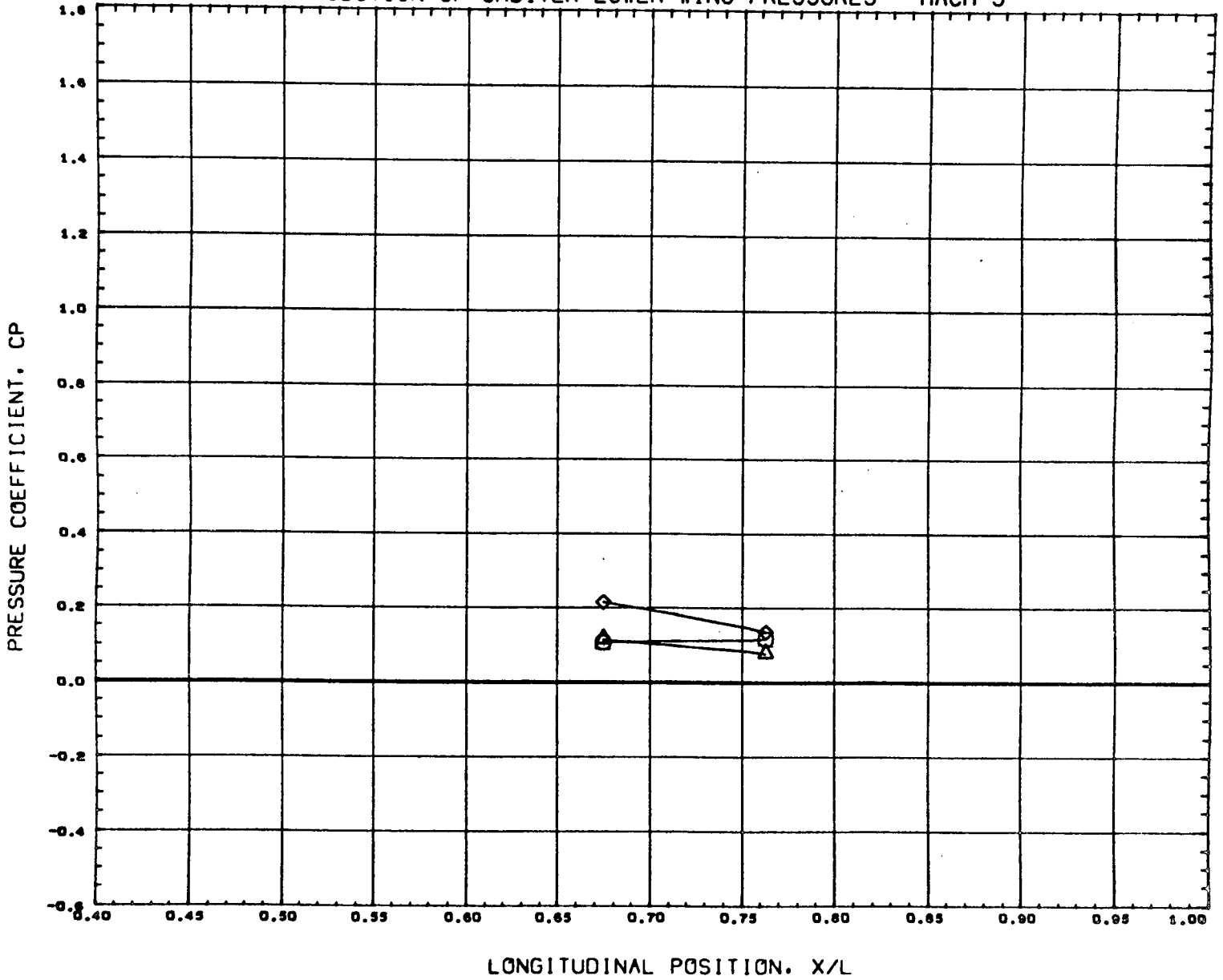
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8552•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.150
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.891	MACH	4.970
ALPHAI	5.000	ORBPOW	0.000
BSTPOW	0.000		

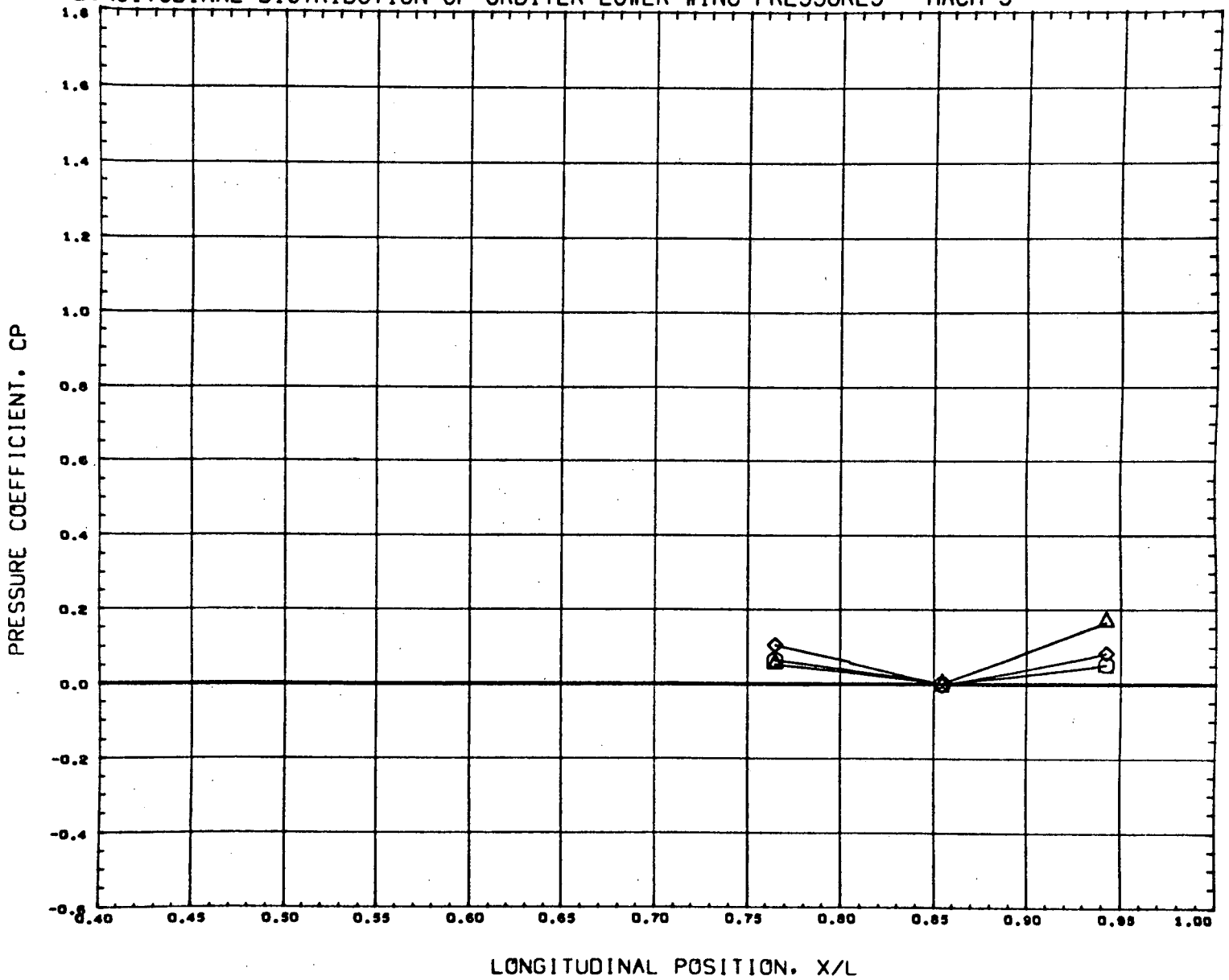
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

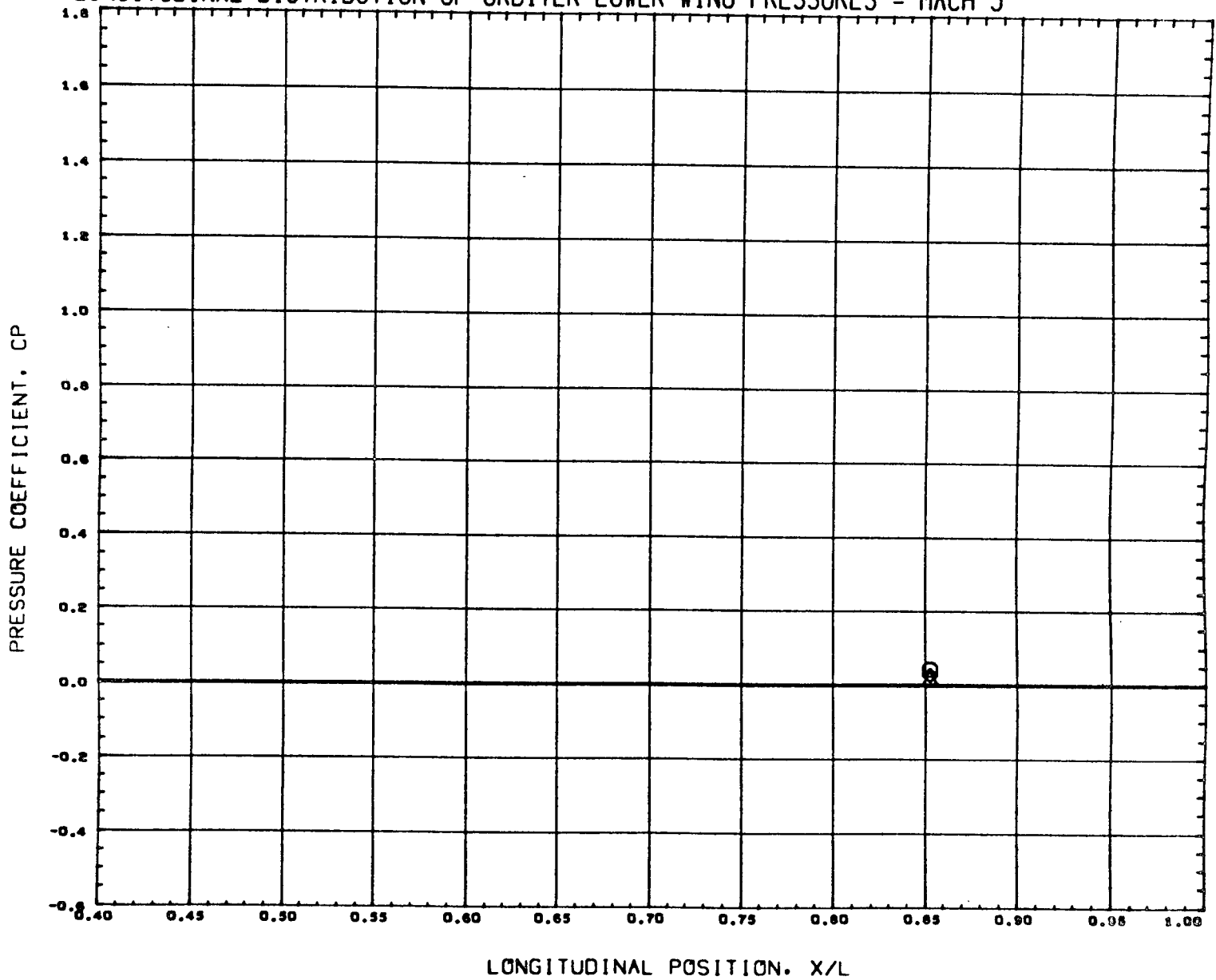


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.569	0.150
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.891	MACH	4.970
ALPHAI	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.739	0.190
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.891	MACH	4.970
ALPHA I	5.000	ORBPOW	0.000
BSTPOW	0.000		

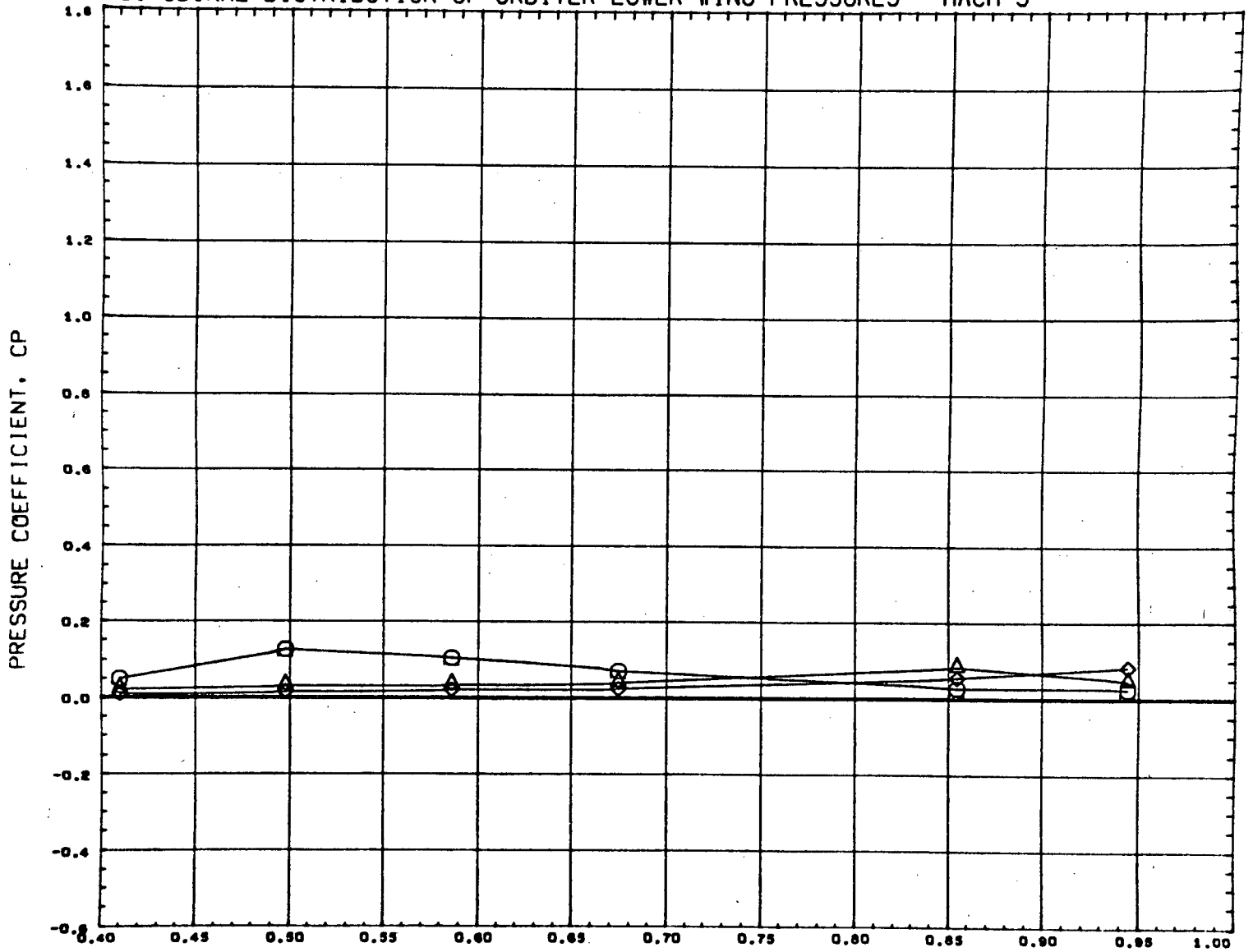
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.226
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHA B	4.891	MACH	4.970
ALPHA I	5.000	ORBPOW	0.000
ESTPOW	0.000		

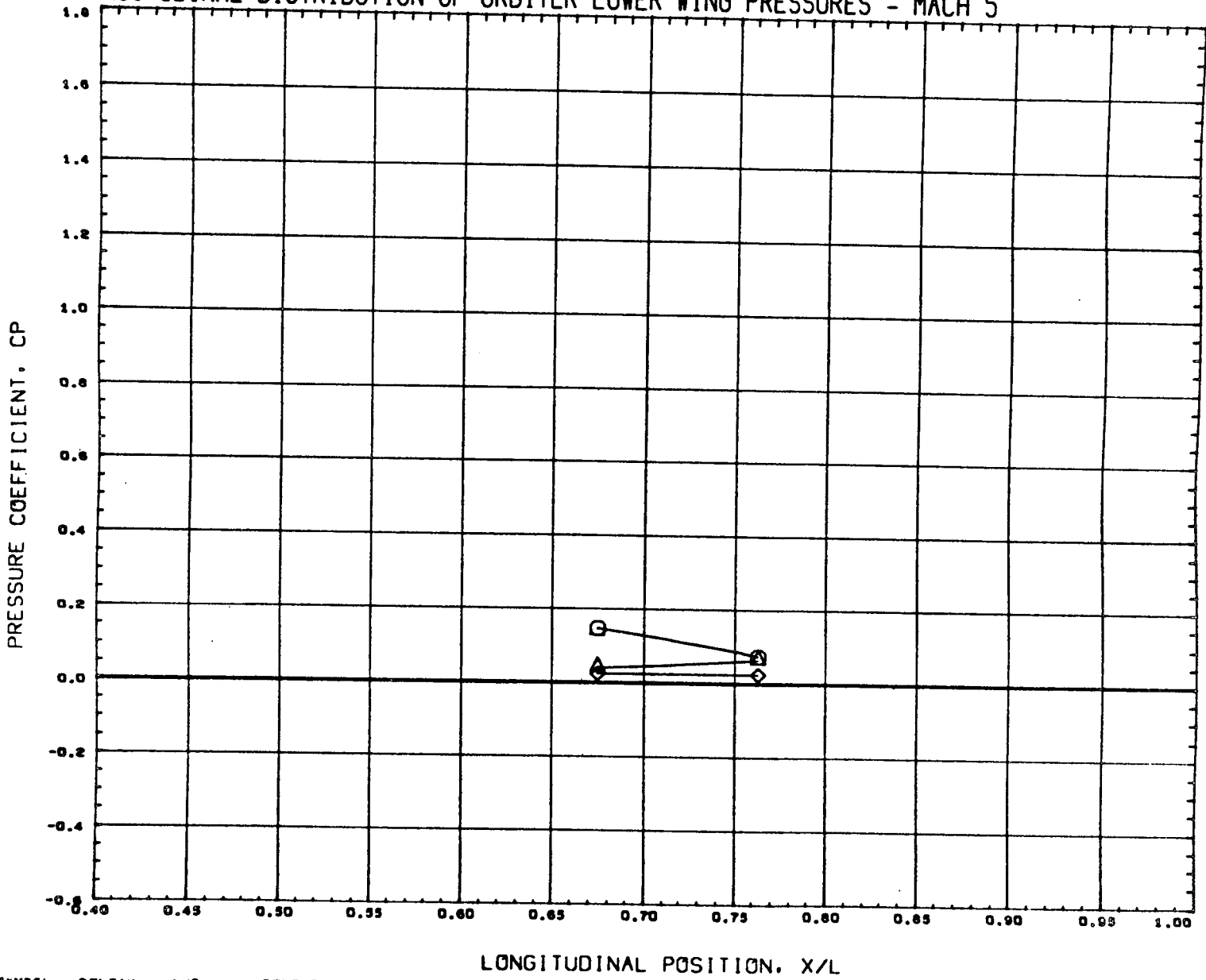
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8552•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.228
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.891	MACH	4.970
ALPHA I	3.000	ORBPOW	0.000
BSTPOW	0.000		

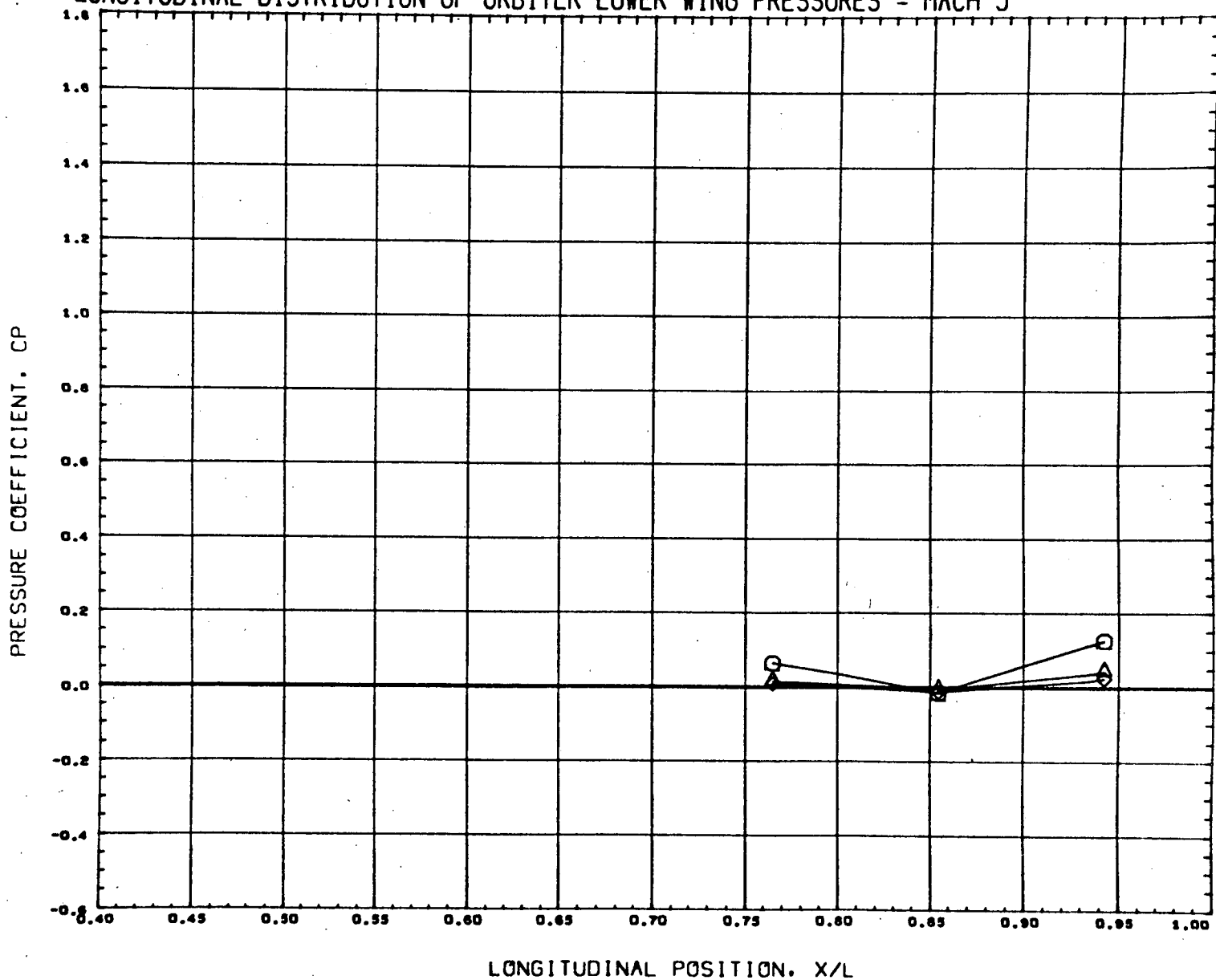
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8552•

PAGE 774

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.569	0.226
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.891	MACH	4.970
ALPHA I	5.000	ORBPOW	0.000
BSTPCW	0.000		

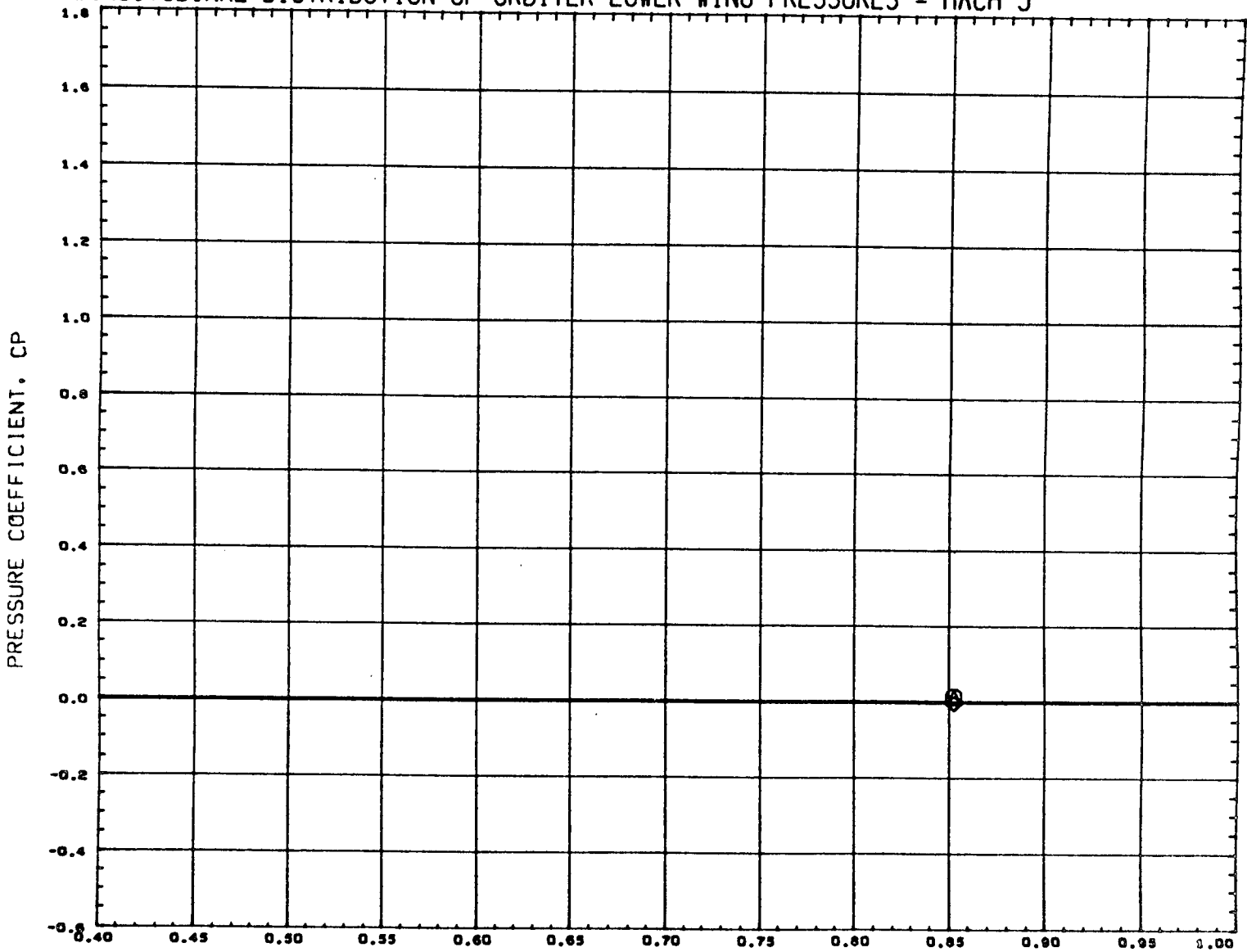
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8552•

PAGE 775

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.738	0.228
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	- 4.891	MACH	4.970
ALPHA1	5.000	ORBPOW	0.000
BSTPOW	0.000		

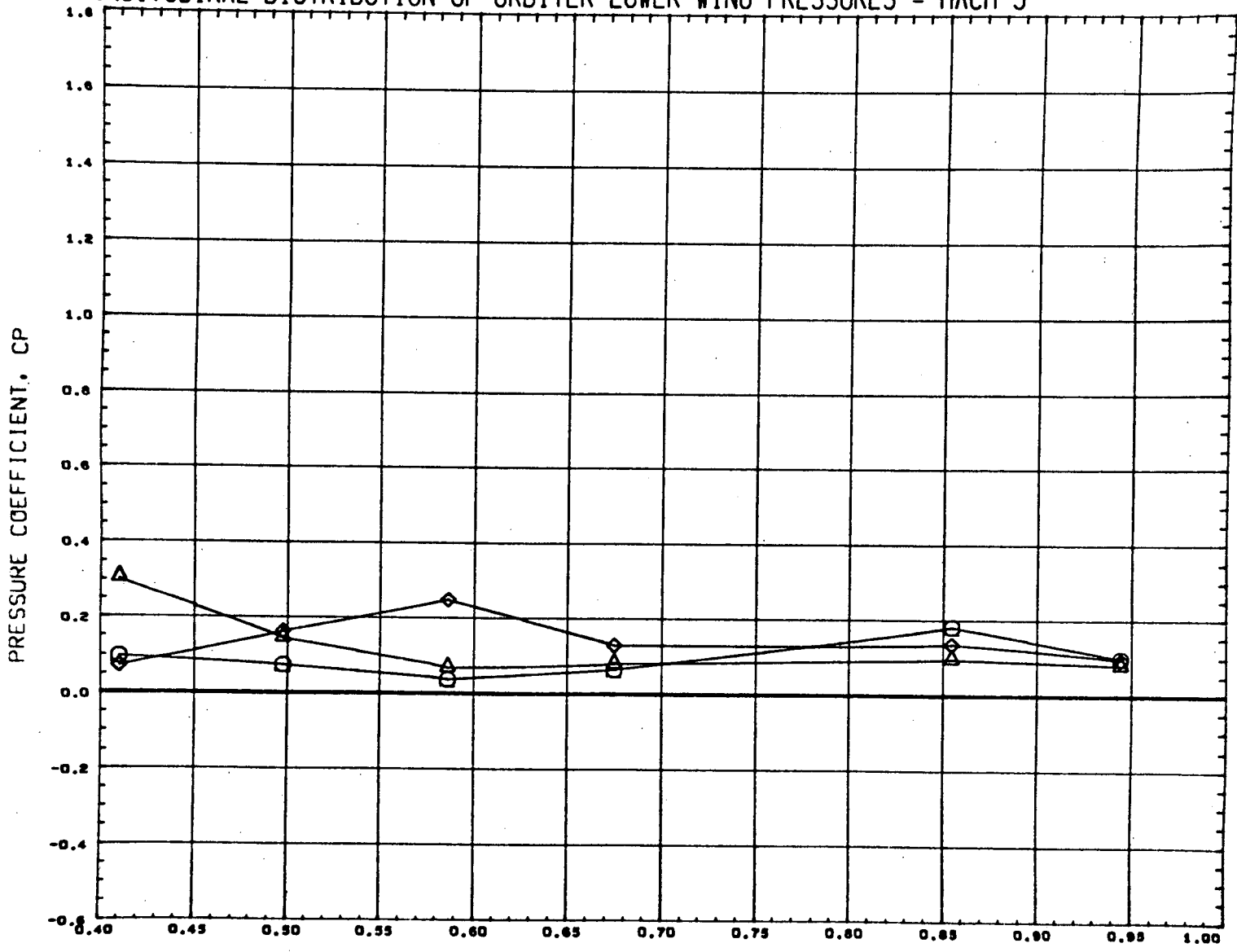
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8552•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.150
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.060	MACH	4.970
ALPHA1	5.000	ORBPOW	0.000
BSTPOW	0.000		

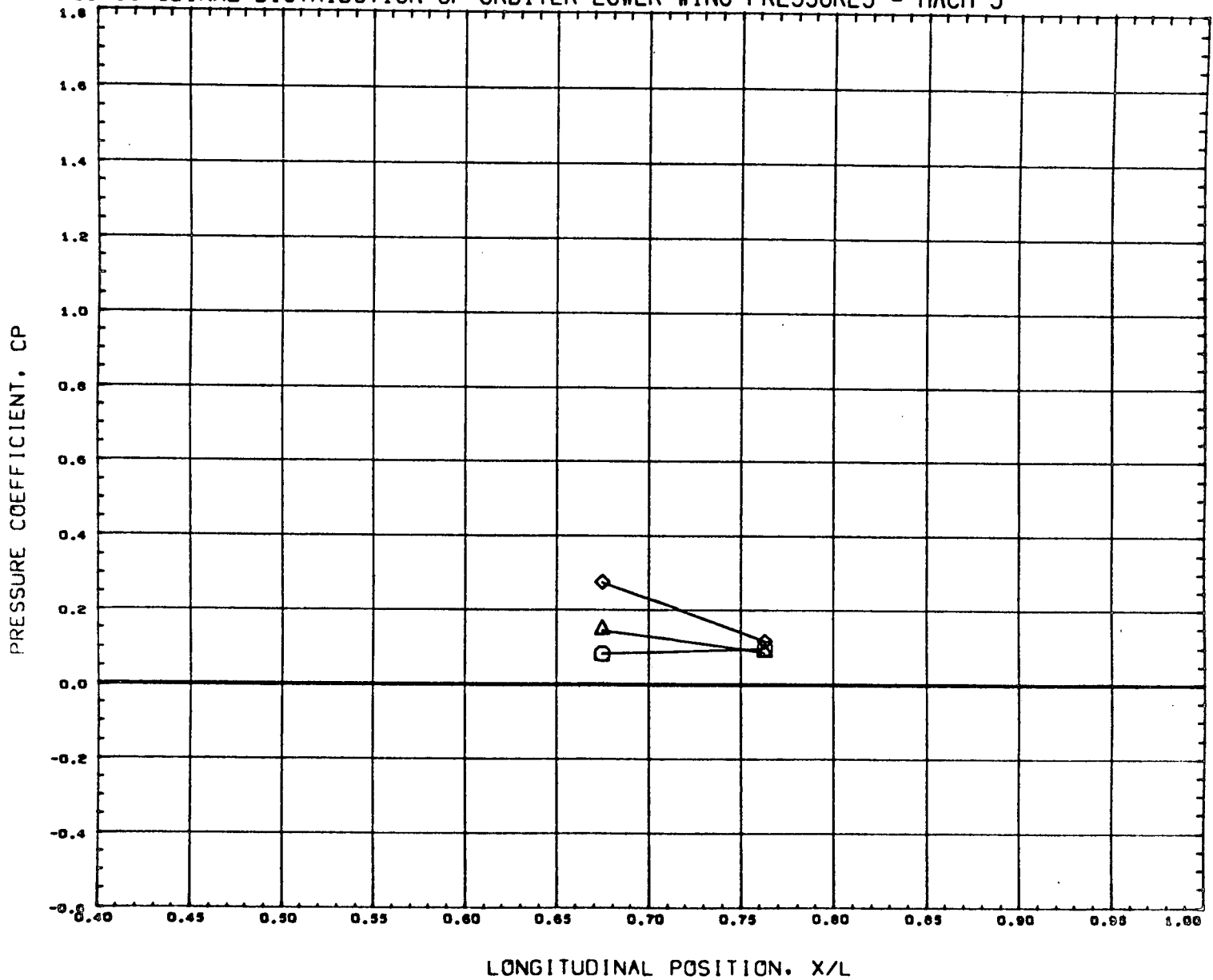
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

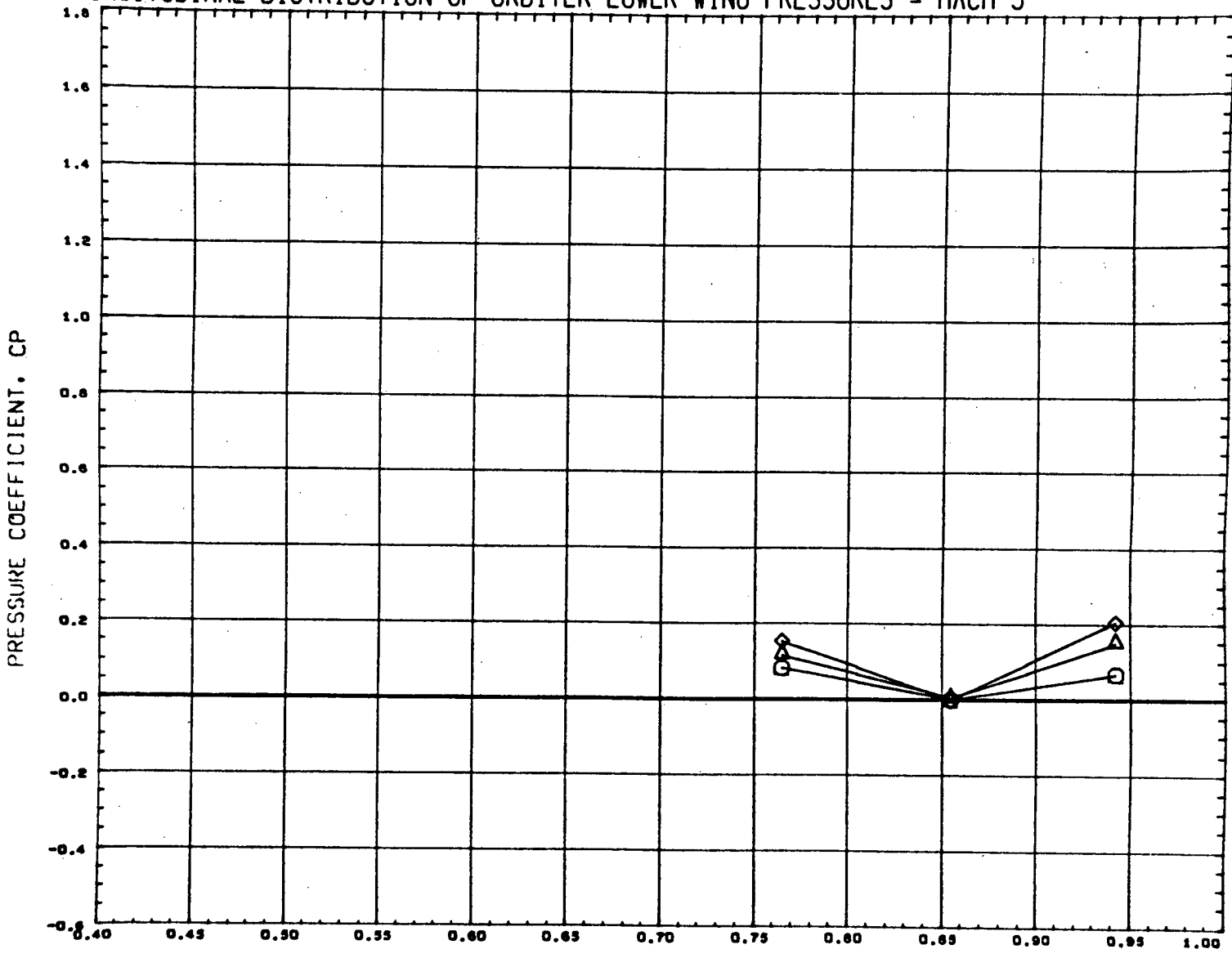


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.150
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.060	MACH	4.970
ALPHA I	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



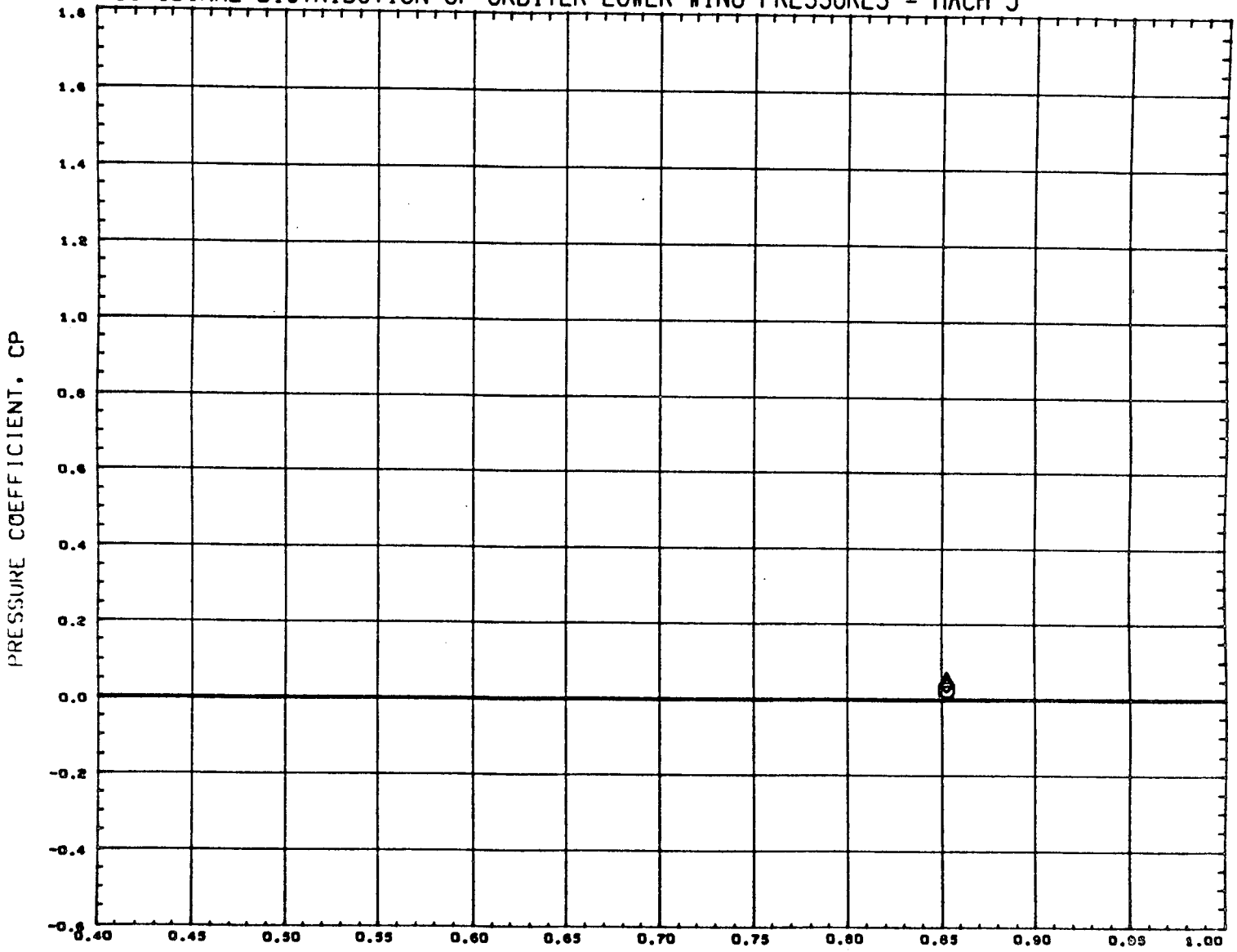
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.569	0.150
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.060	MACH	4.970
ALPHA1	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.738	0.150
△	0.102		
◇	0.228		

PARAMETRIC VALUES			
ALPHAB	0.060	MACH	4.970
ALPHA I	5.000	ORBPOW	0.000
BSTPOW	0.000		

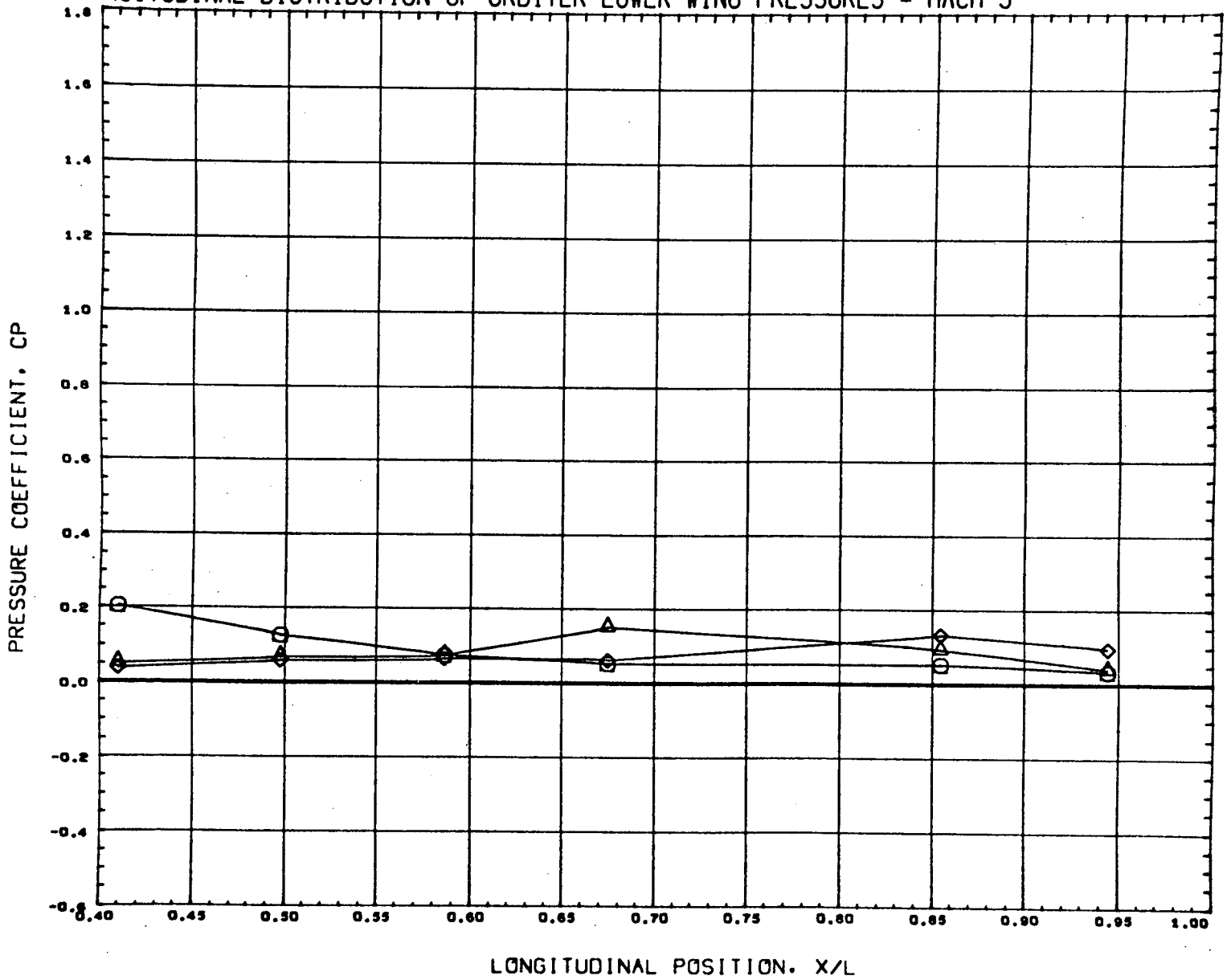
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.226
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.060	MACH	4.970
ALPHA I	5.000	ORBPOW	0.000
BSTPOW	0.000		

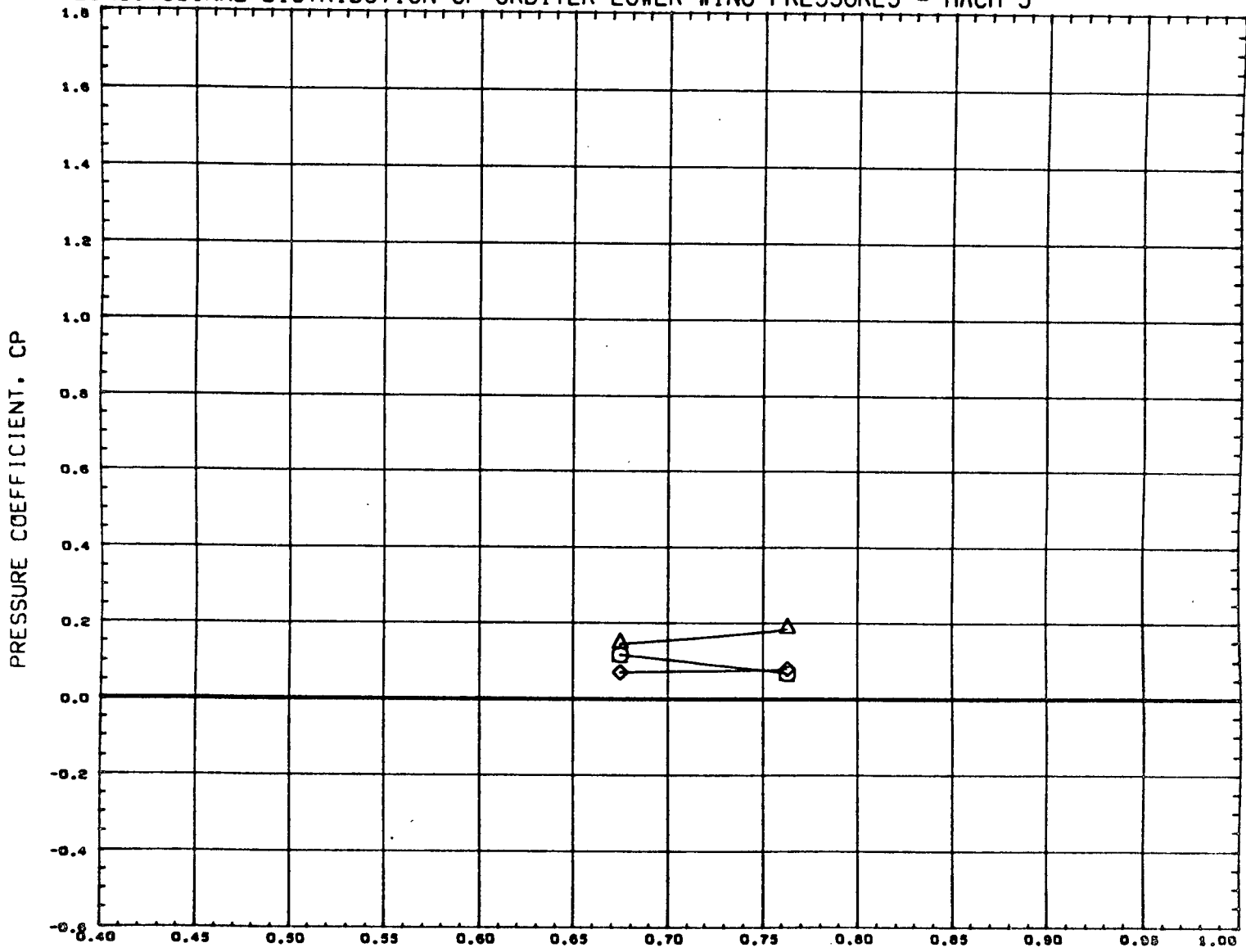
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8553•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.144	0.399	0.228
◇	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.060	MACH	4.970
ALPHA1	5.000	ORBPOW	0.000
BSTPOW	0.000		

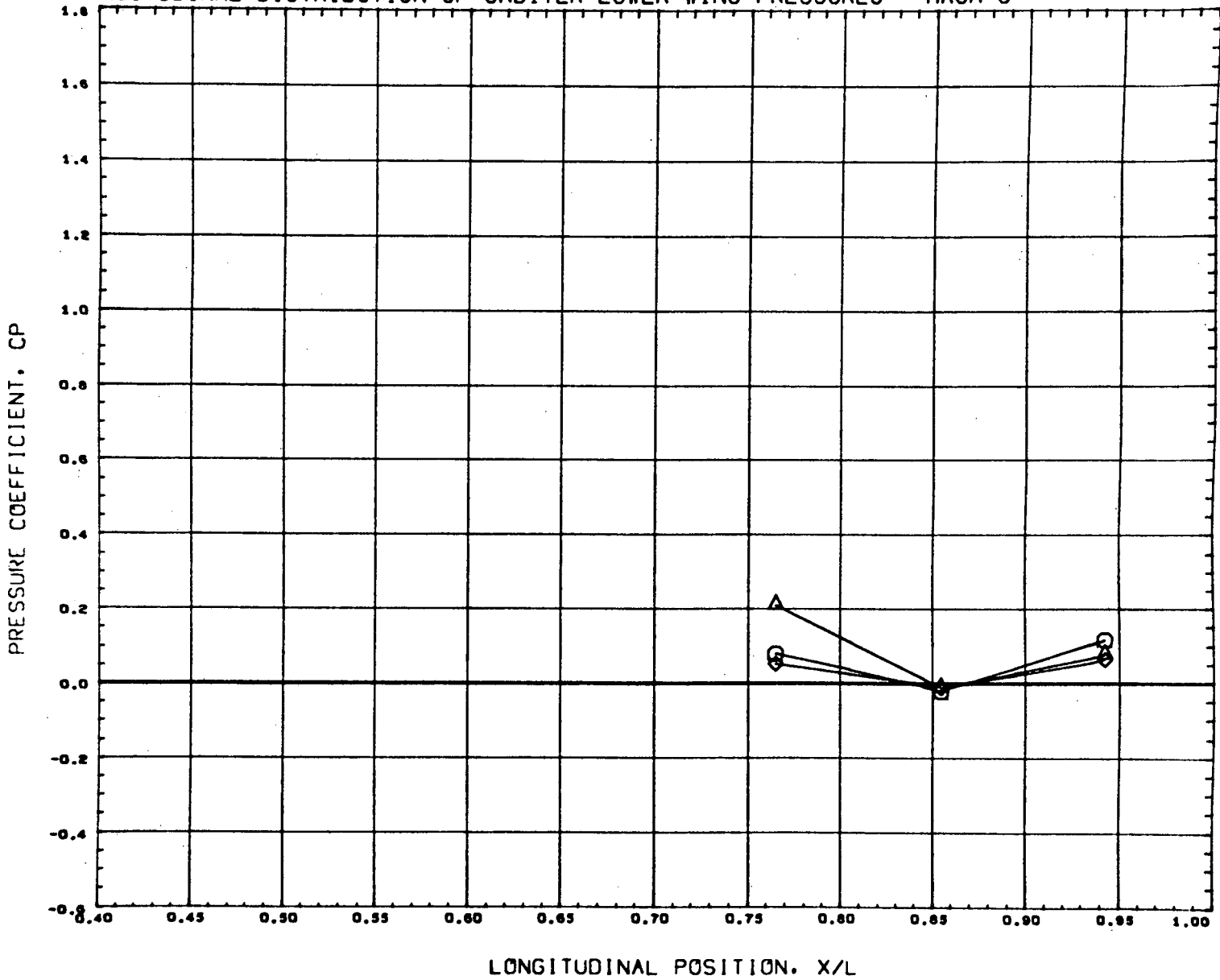
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

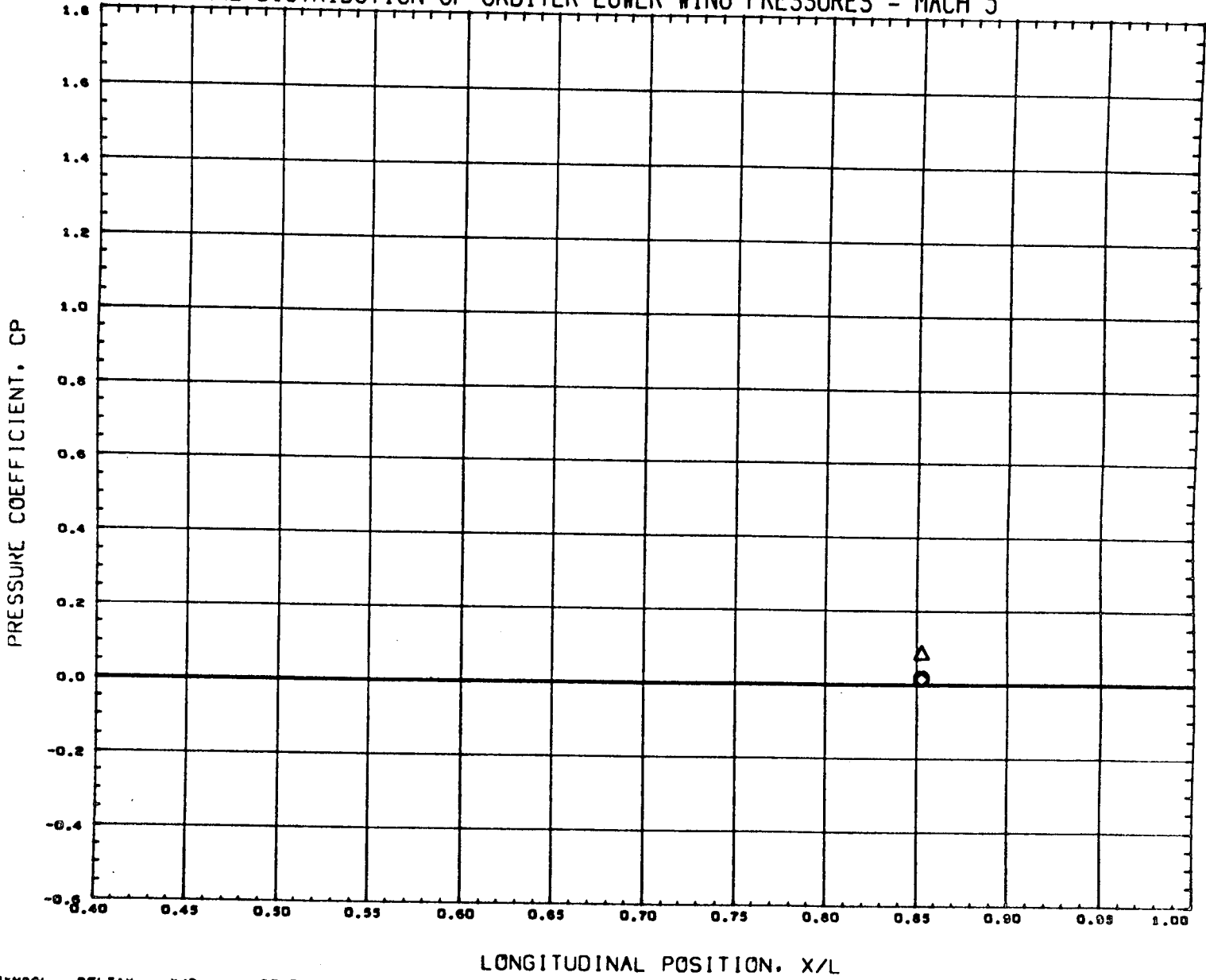


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.568	0.228
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.060	MACH	4.970
ALPHA I	5.000	ORSPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

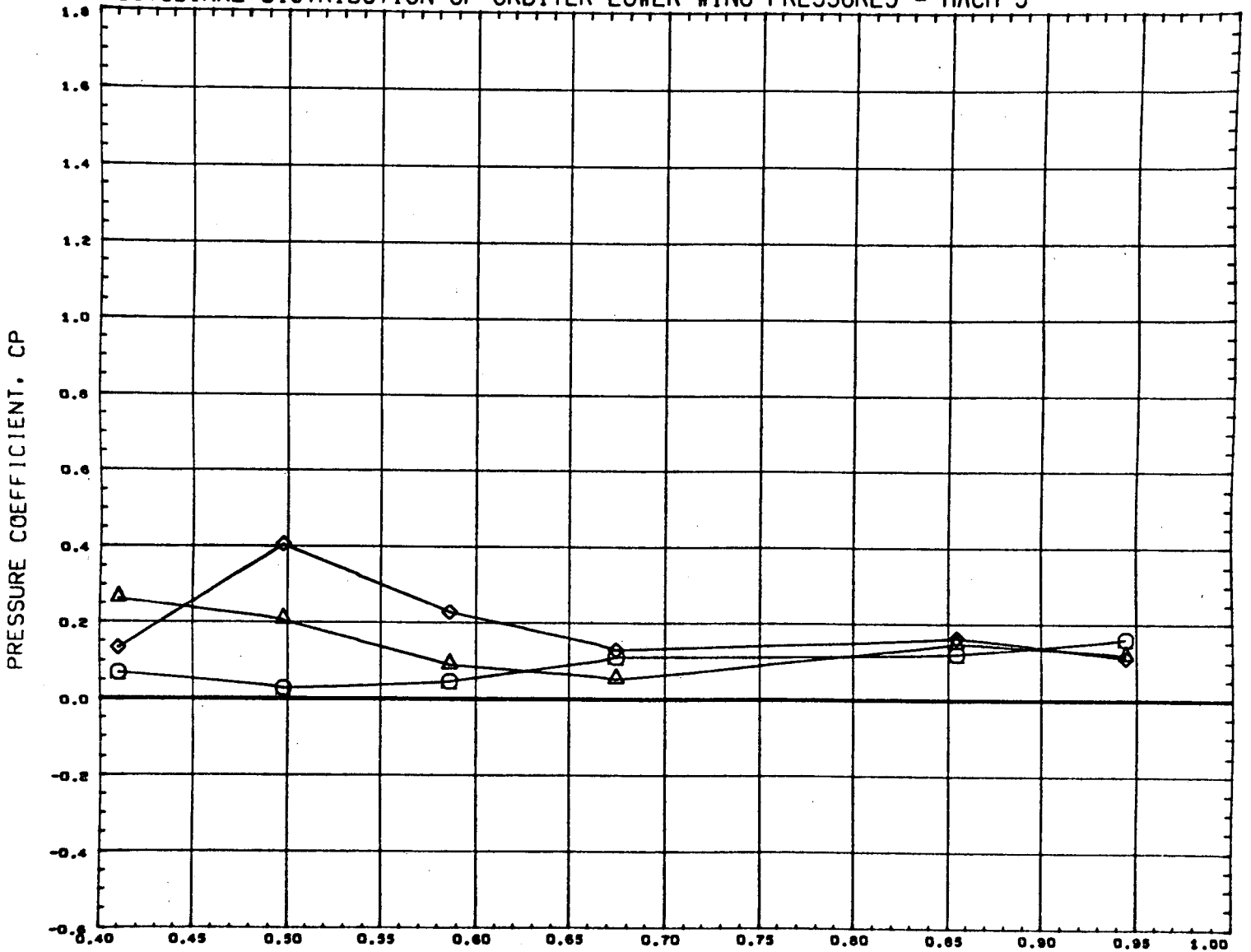


SYMBOL	DELTA X	Y/B	DELTA Z
()	0.144	0.738	0.226
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.080	MACH	4.970
ALPHAI	3.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



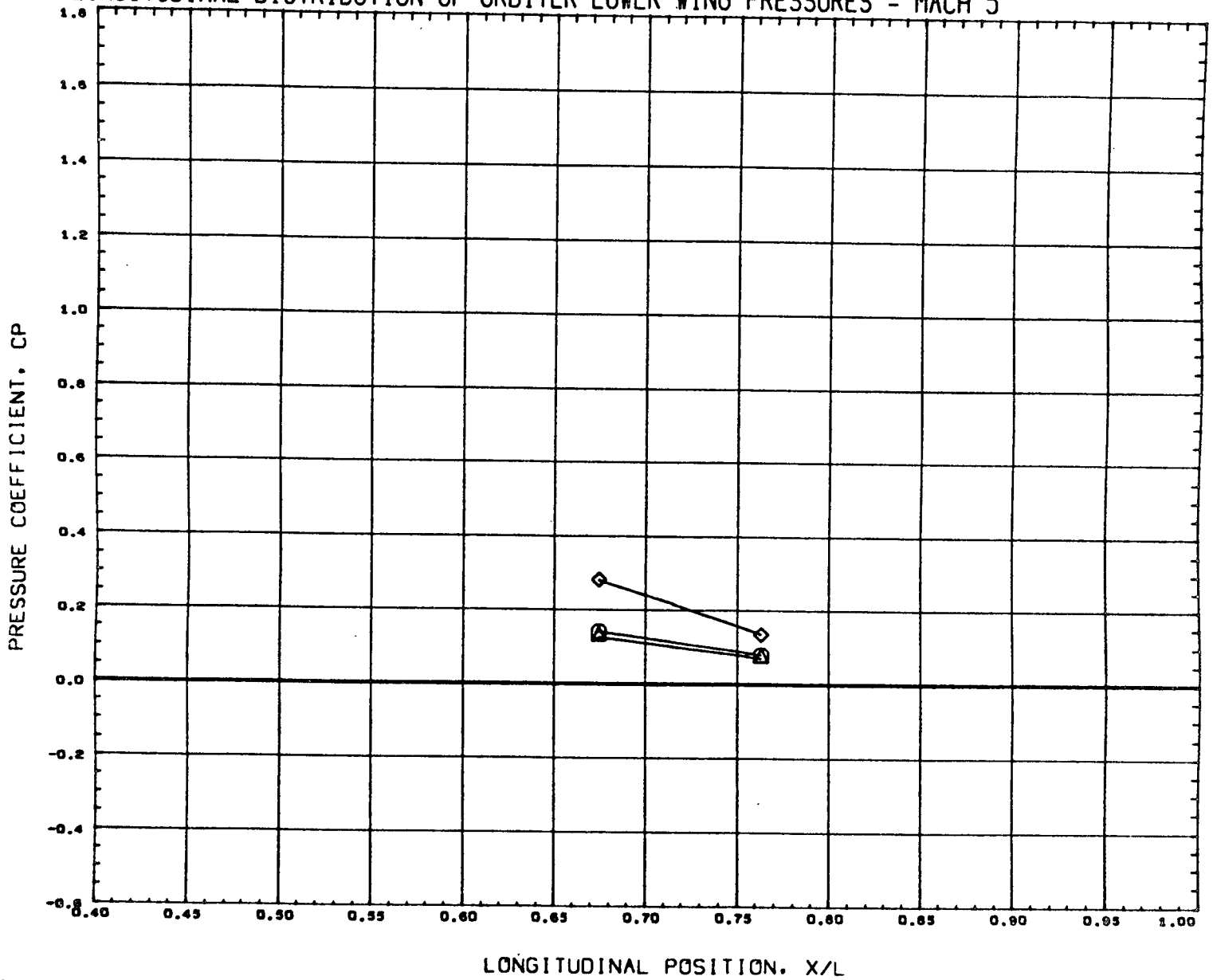
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.130
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHA1	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

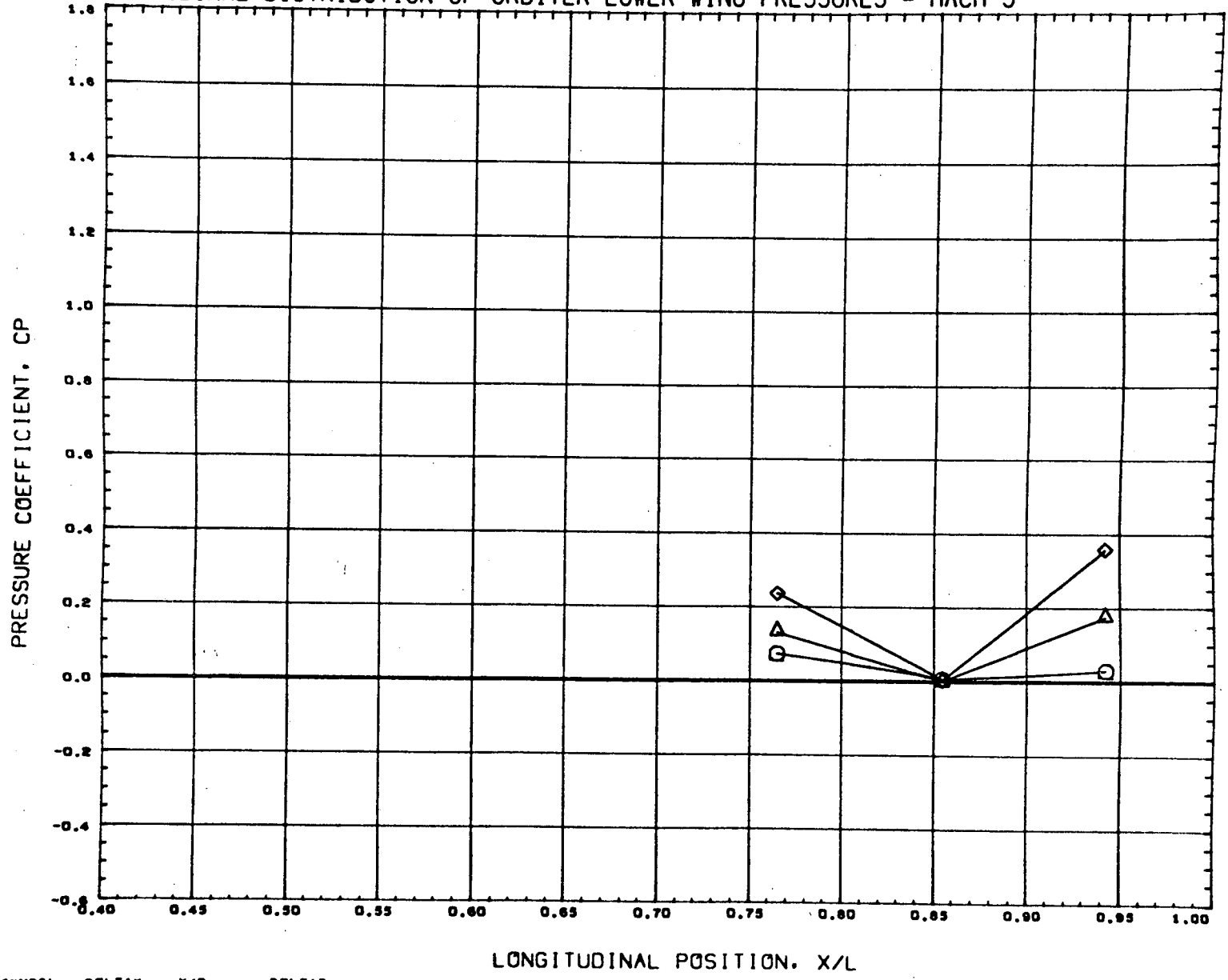


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.150
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHA I	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

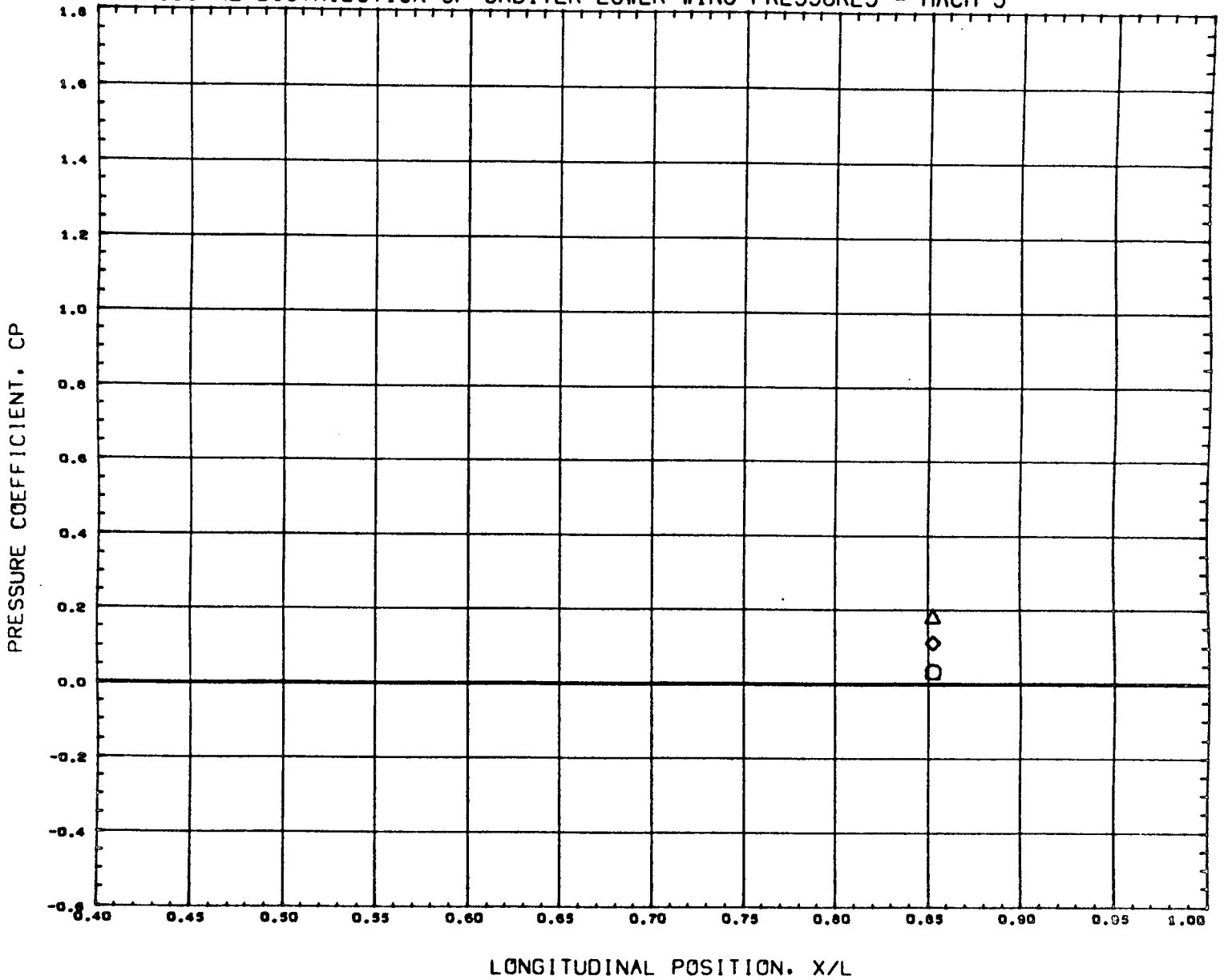


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.569	0.150
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHA1	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

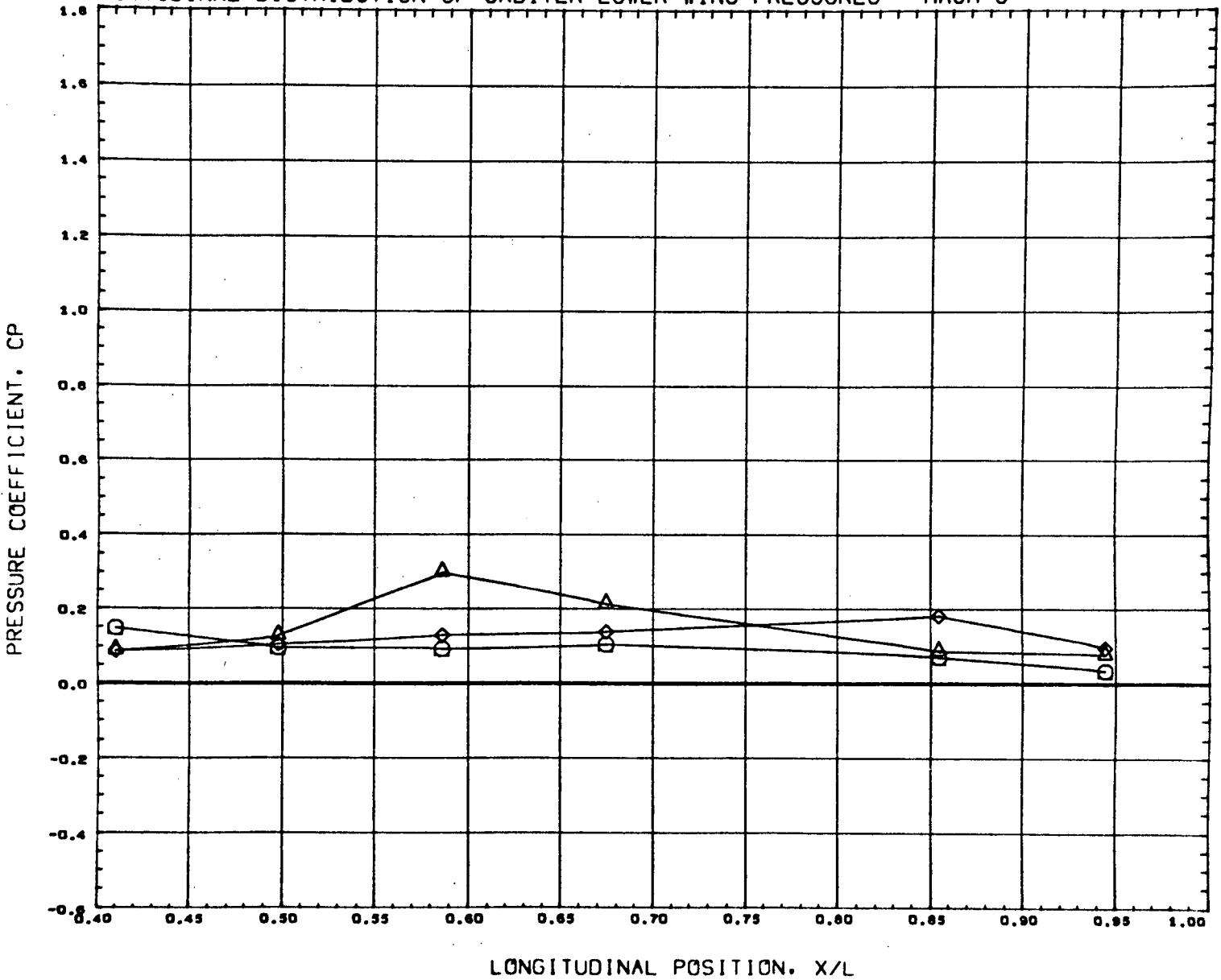


SYMBOL	DELTA X	Y/B	DELTA Z
△	0.144	0.739	0.150
◇	0.102		
○	0.226		

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHA I	5.000	ORBPOW	0.000
ESTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.227
△	0.102		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	5.033	MACH 4.970
ALPHA I	5.000	ORBPOW 0.000
BSTPOW	0.000	

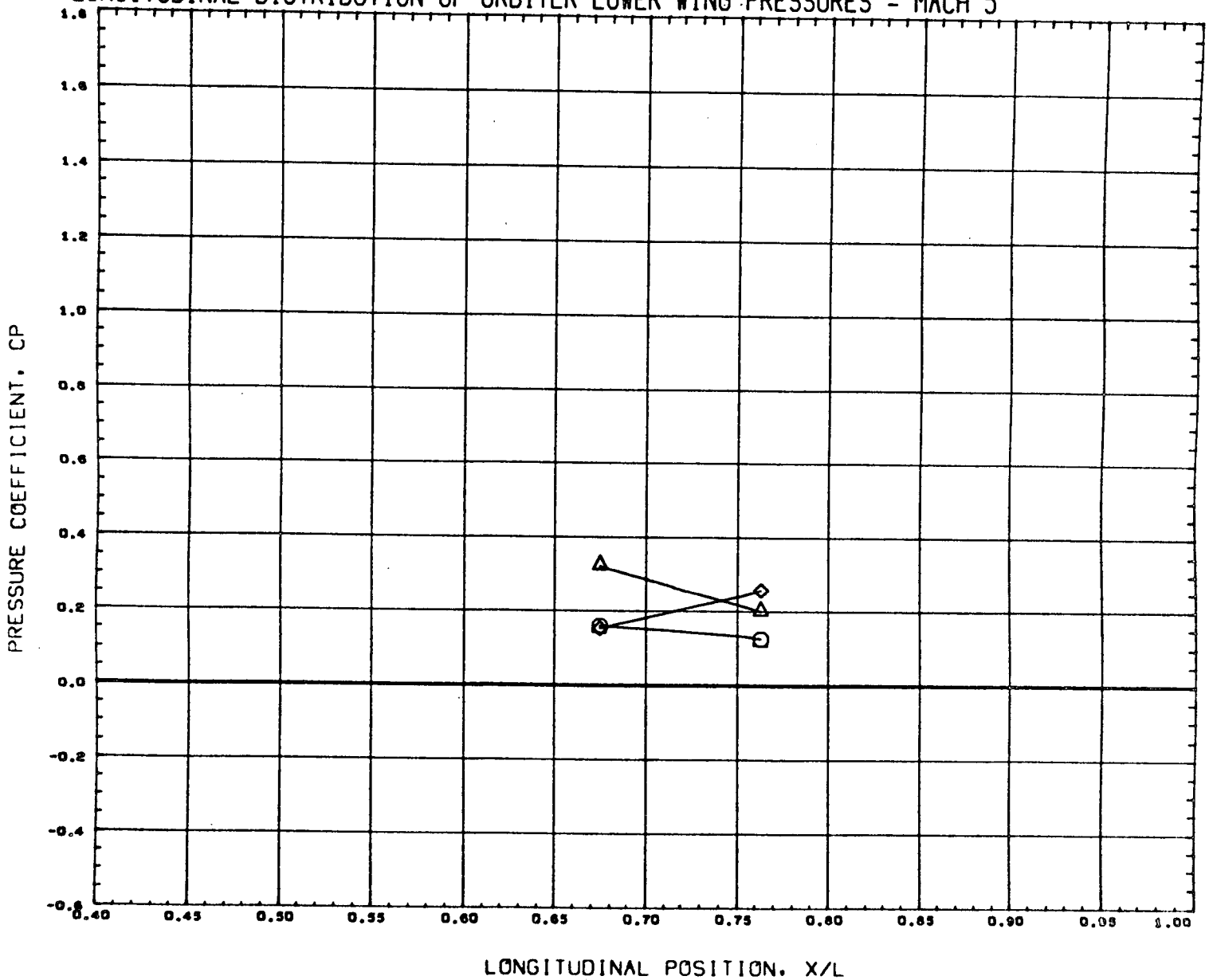
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8554•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.227
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHA1	5.000	ORBPOW	0.000
BSTPOW	0.000		

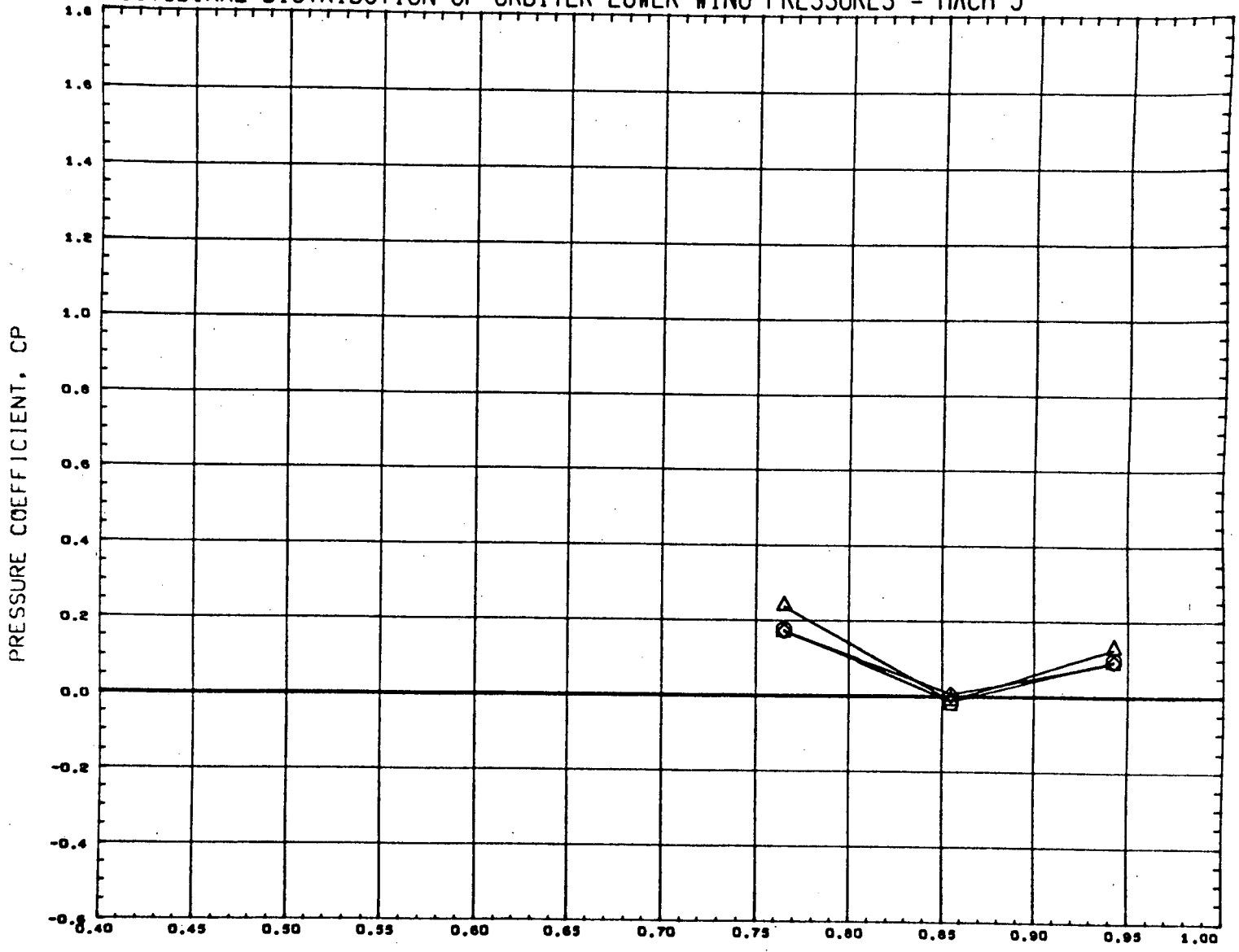
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8554•

PAGE 790

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.144	0.568	0.227
◇	0.102		
	0.226		

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHAT	9.000	ORBPOW	0.000
BSTPOW	0.000		

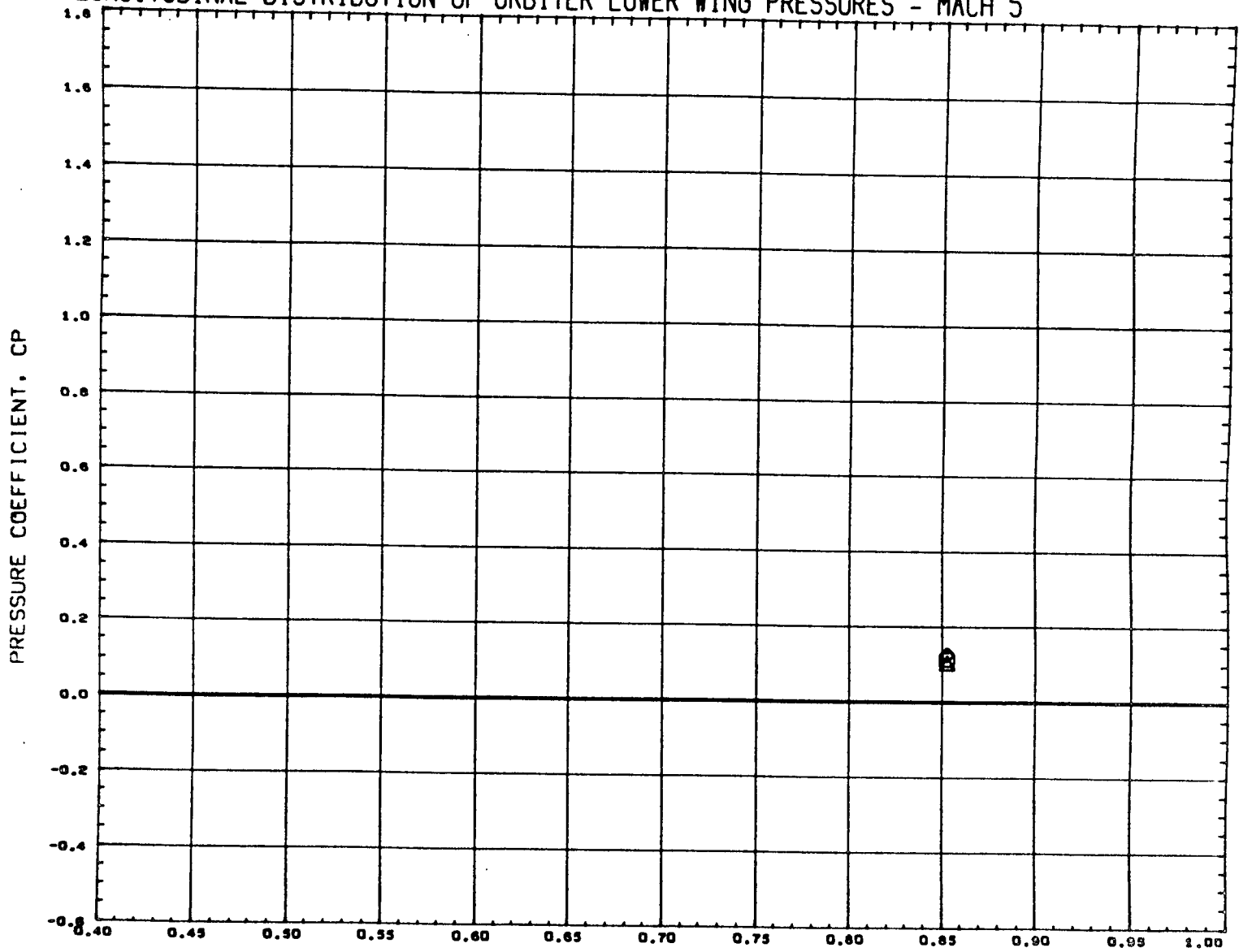
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8554•

PAGE 791

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.739	0.227
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHA1	5.000	ORBPOW	0.000
BSTPOW	0.000		

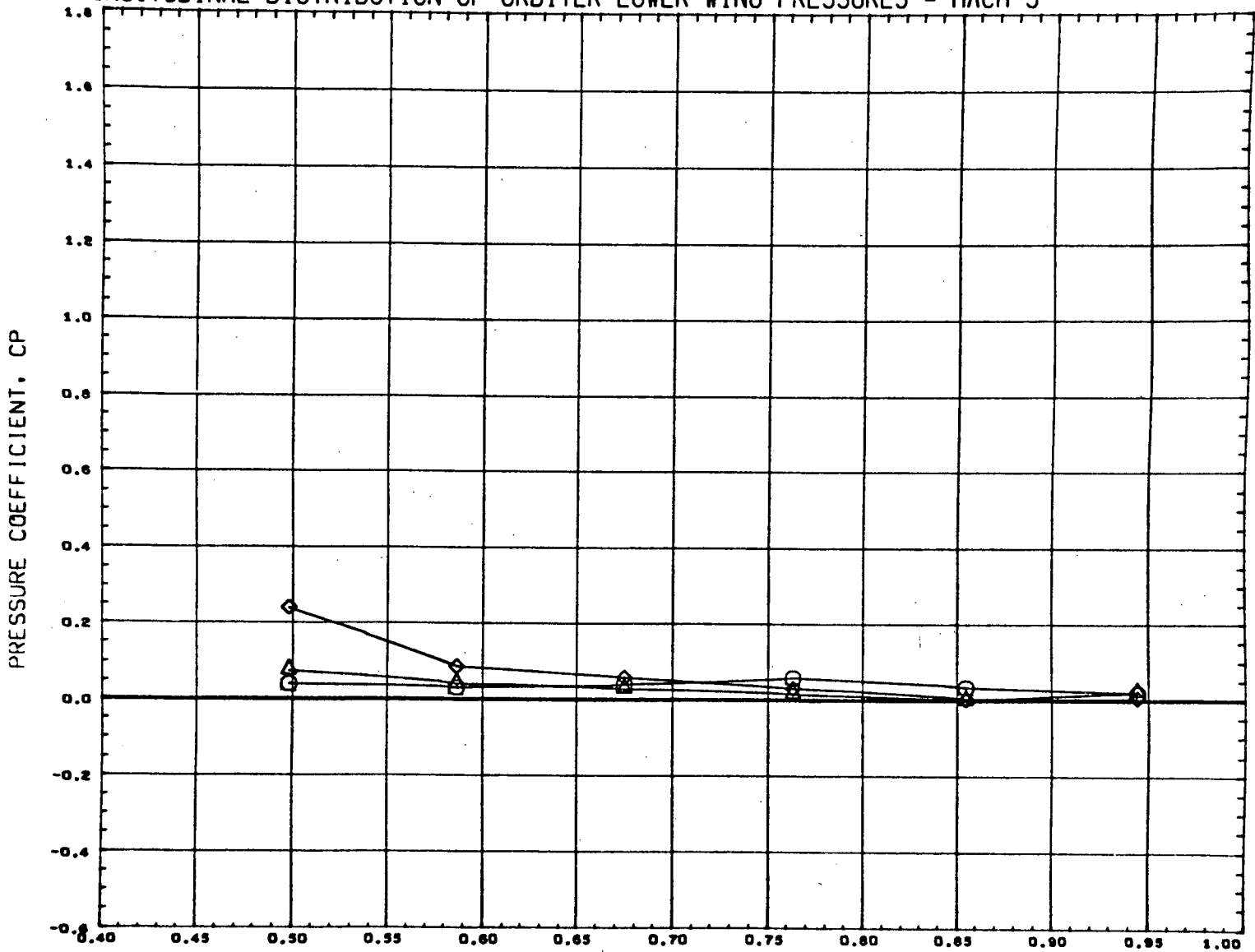
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8554•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.143	0.230	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.935	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

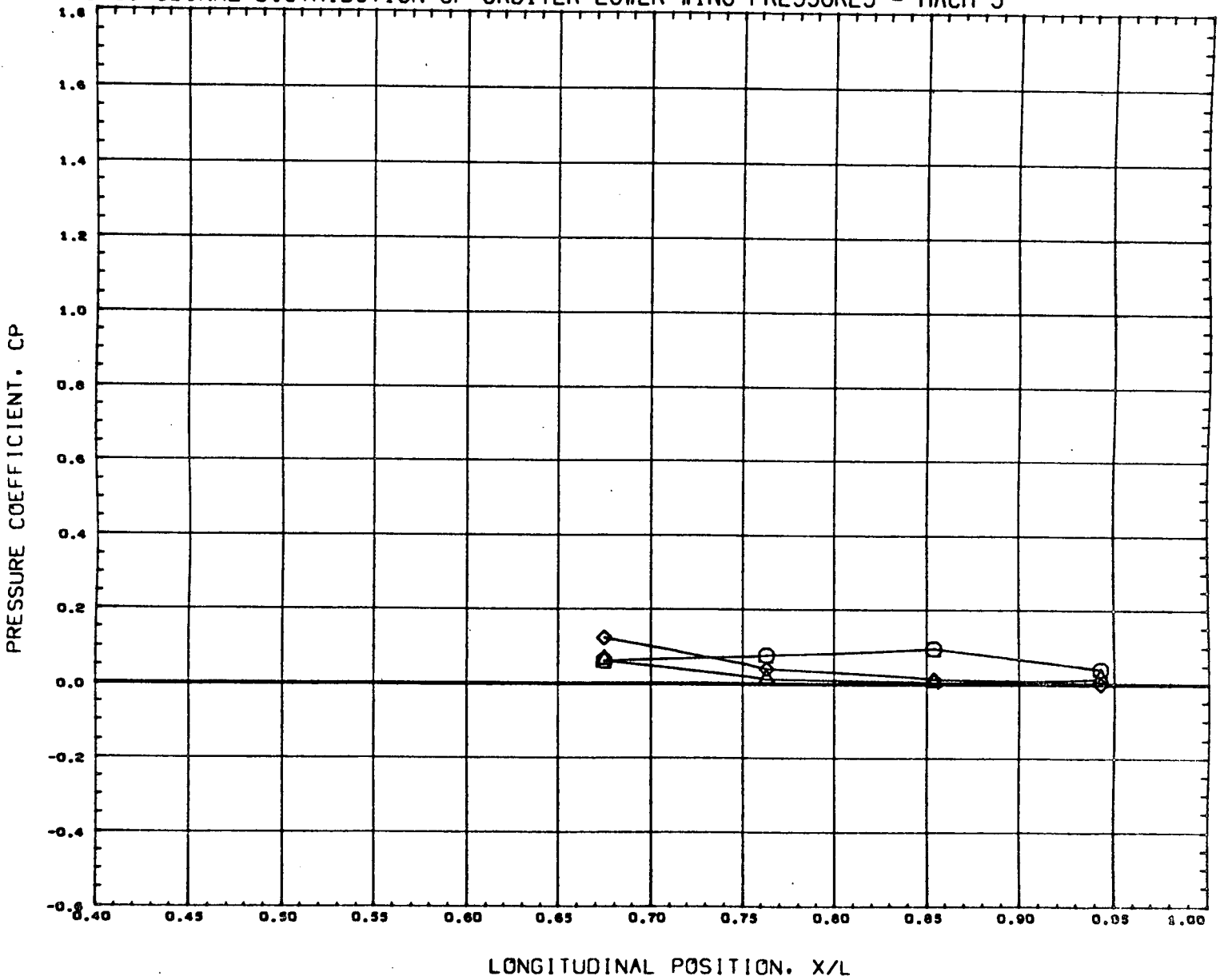
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AECC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.143	0.399	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.935	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

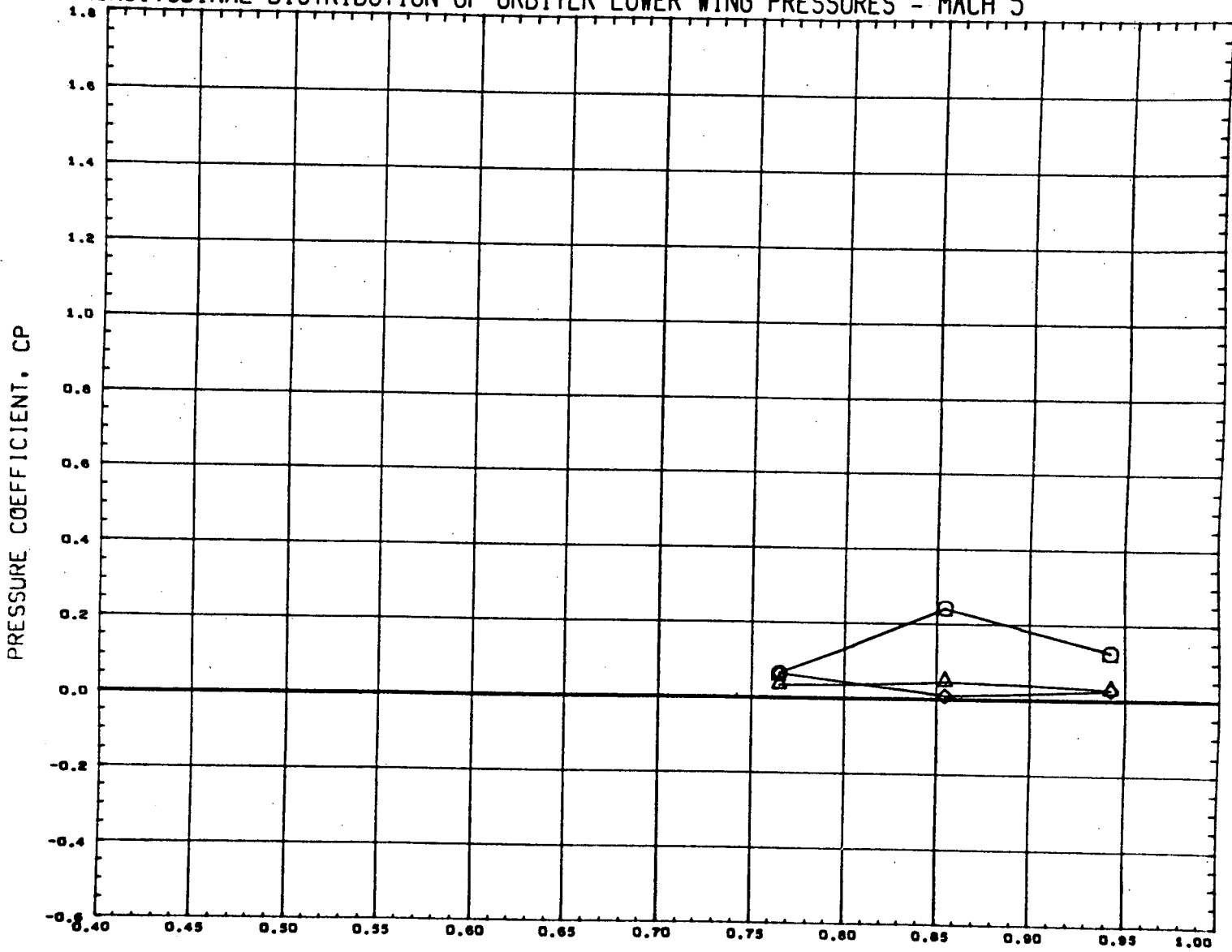
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.143	0.566	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.933	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

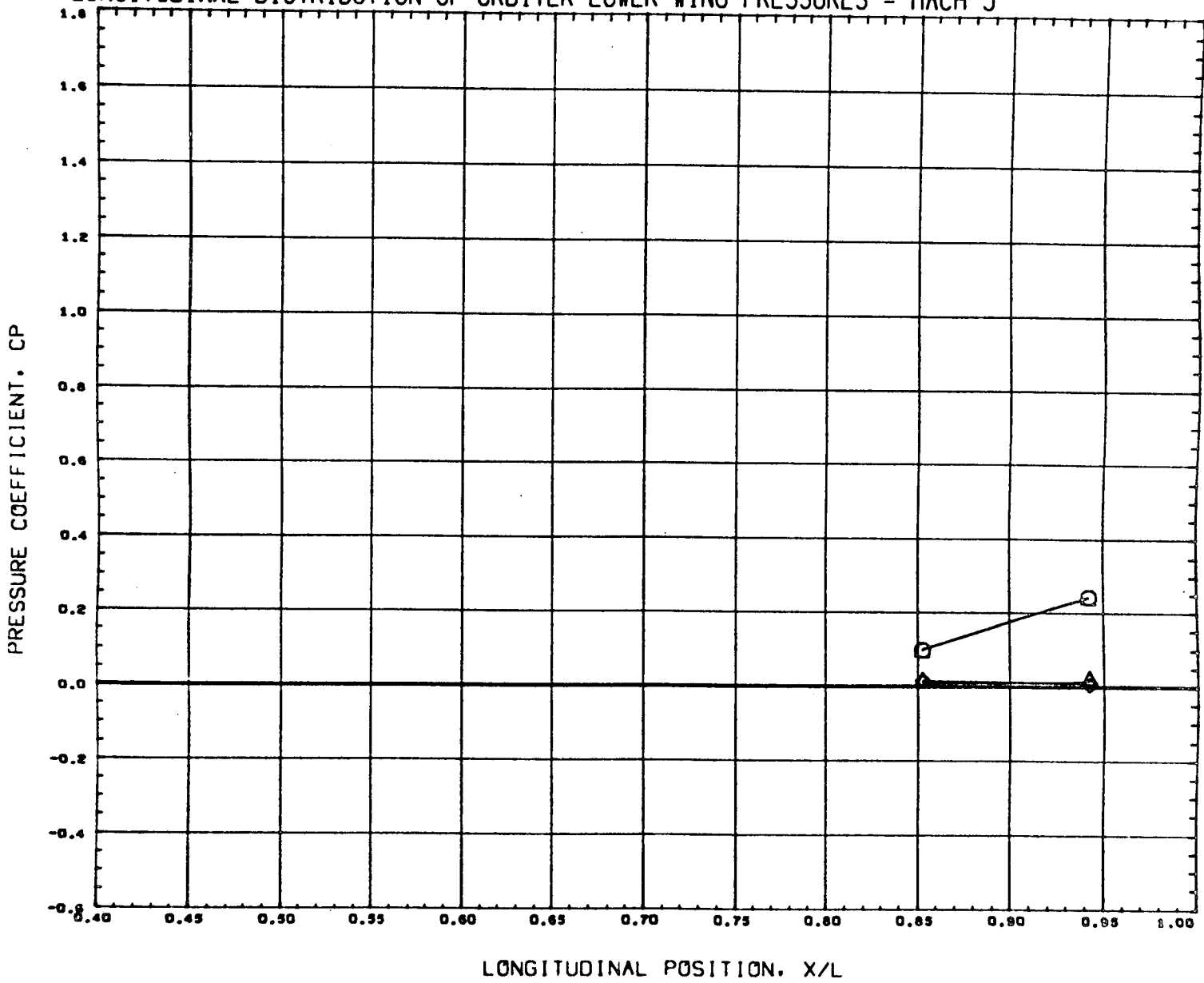
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.143	0.739	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.933	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

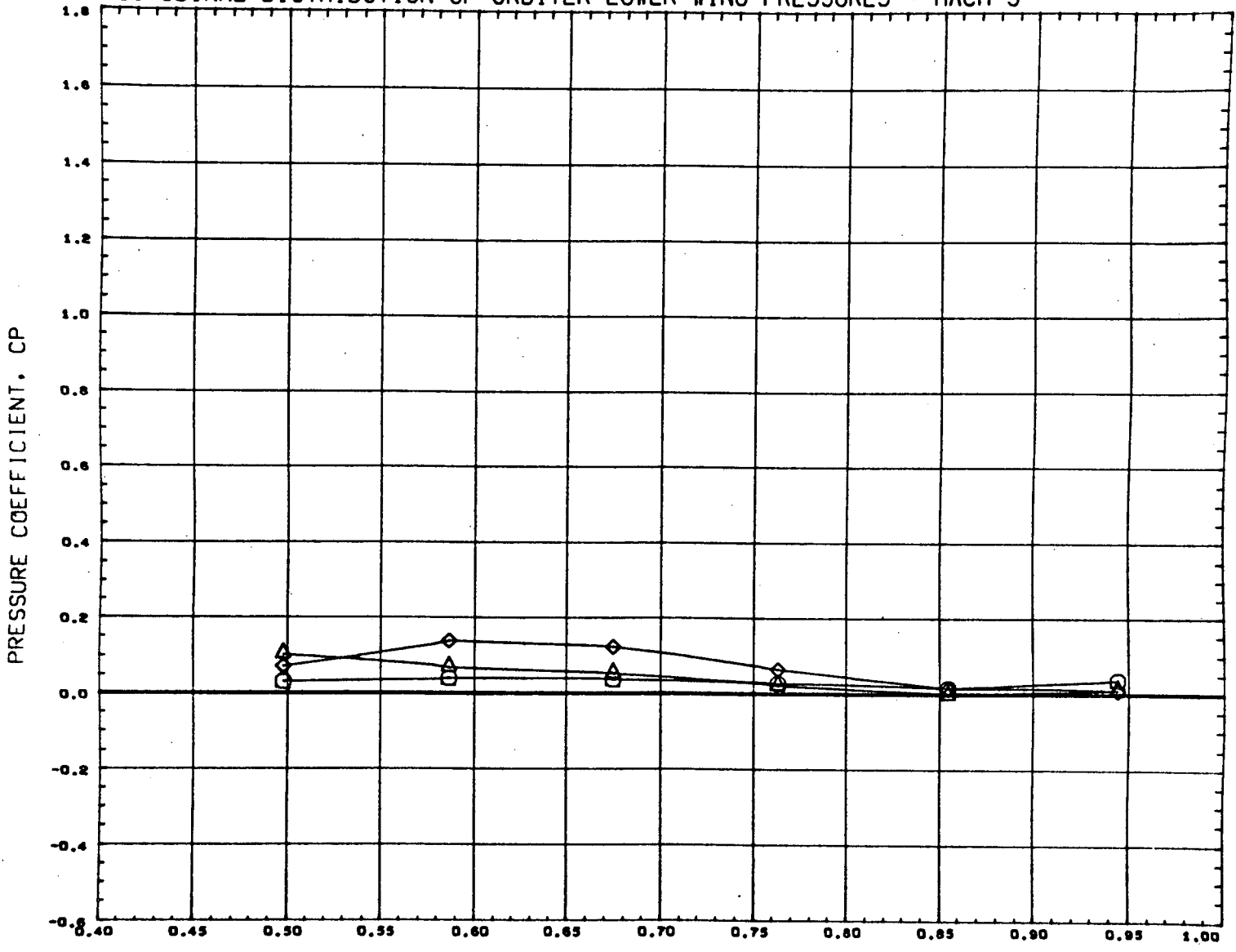
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHA B	4.935	MACH	4.970
ALPHA I	0.000	ORBPOW	100,000
BSTPCW	50,000		

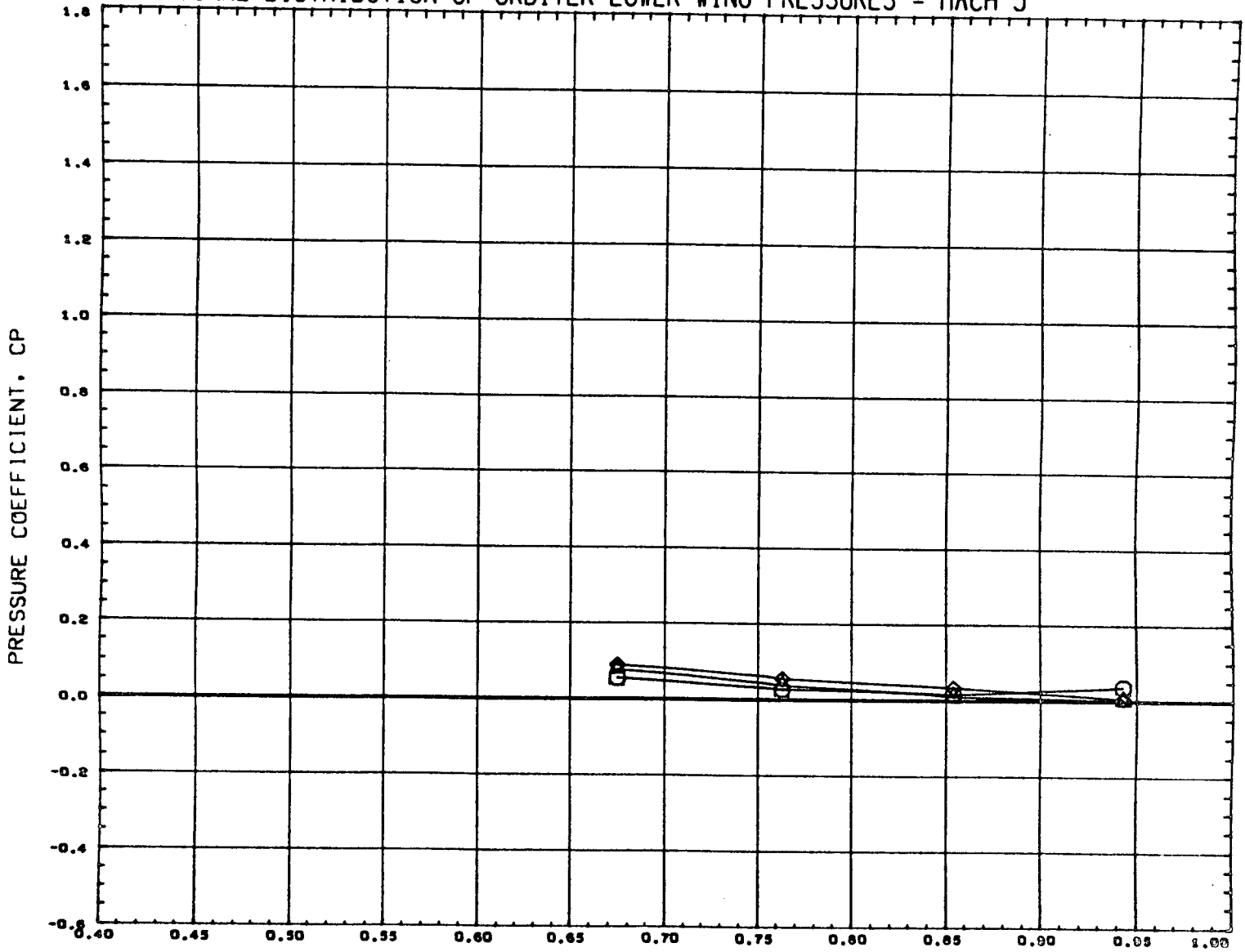
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.144	0.399	0.151
◻	0.103		
◊	0.226		

PARAMETRIC VALUES			
ALPHAB	4.935	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

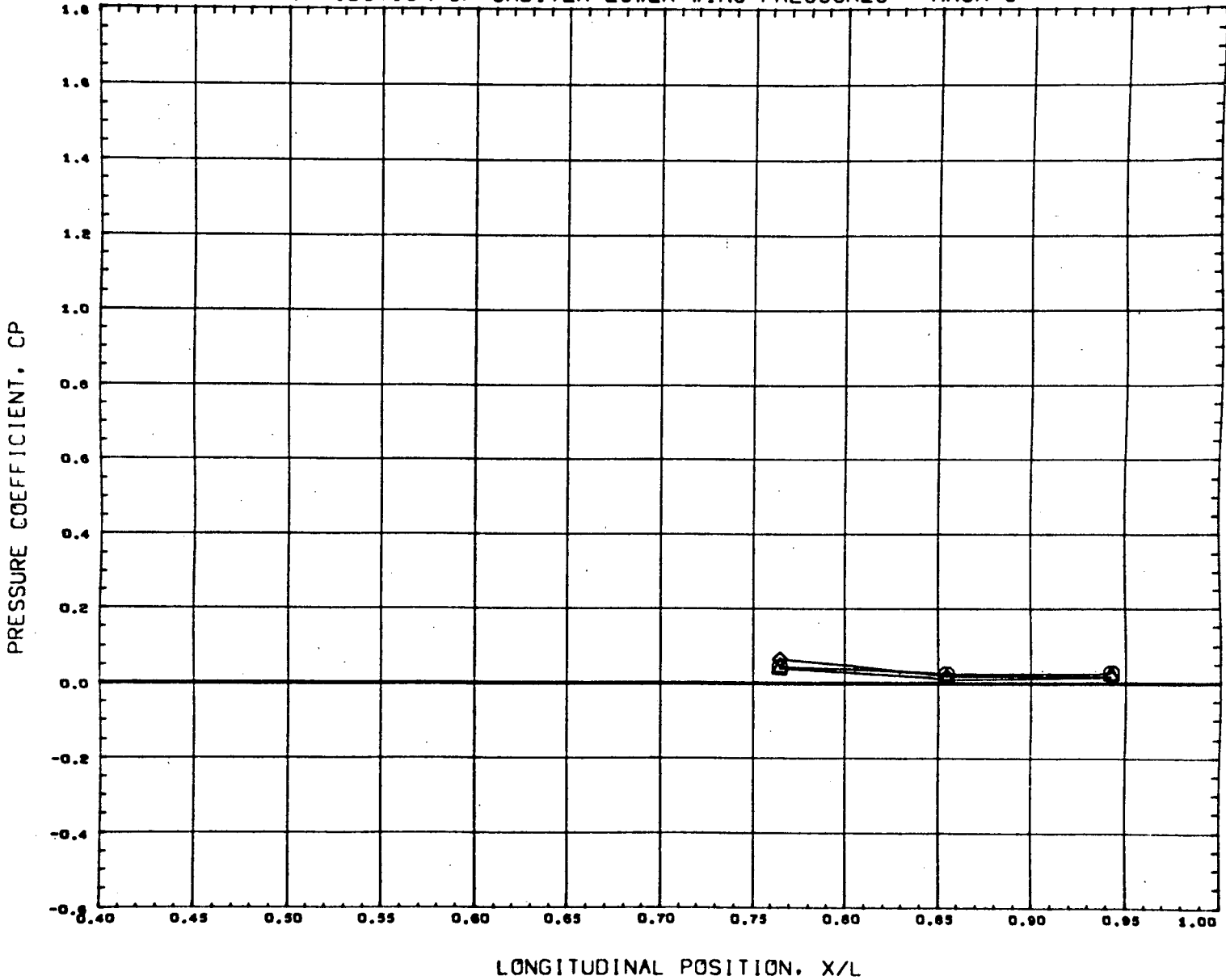
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 798

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
□	0.144	0.569	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.935	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

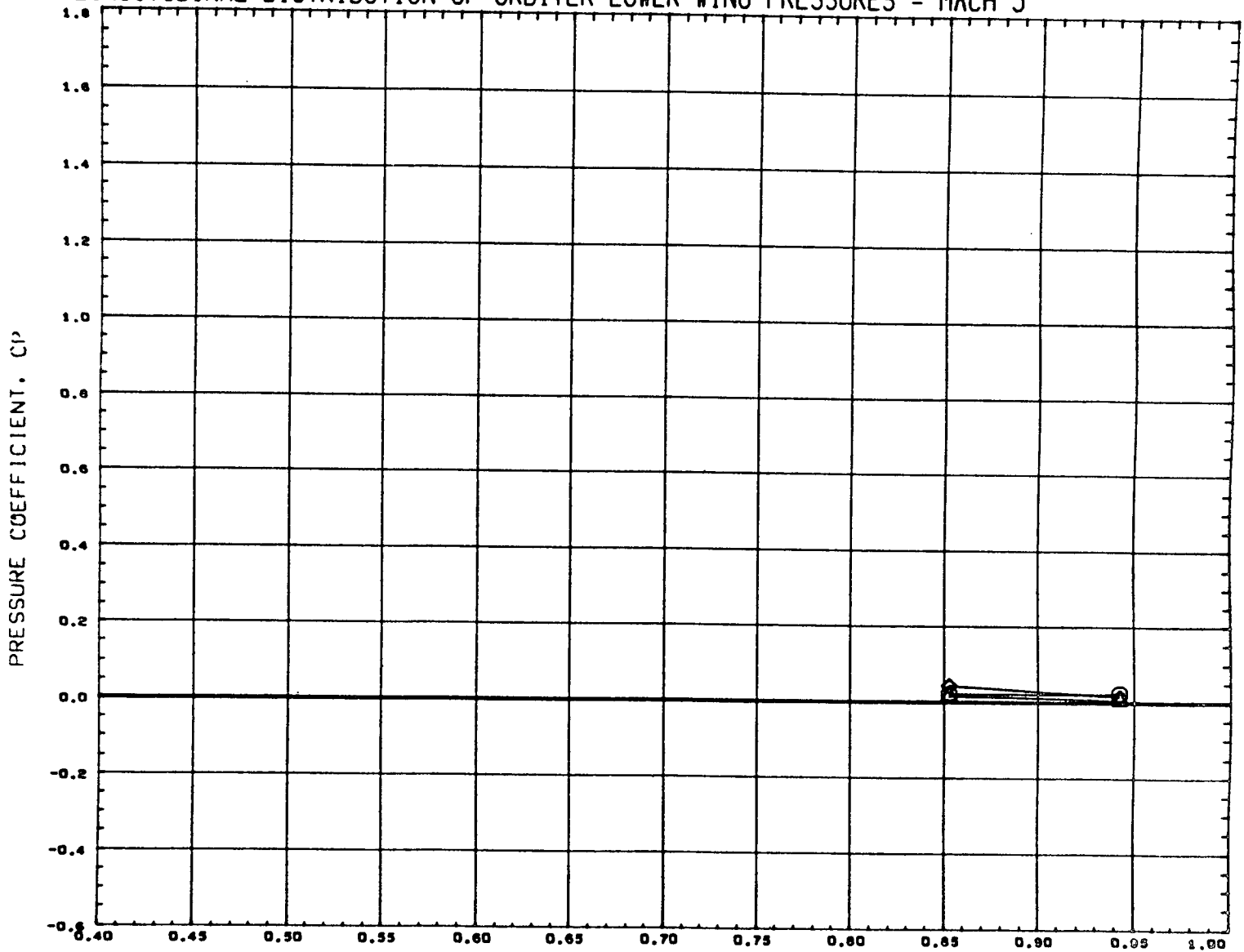
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 799

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.739	0.191
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.935	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

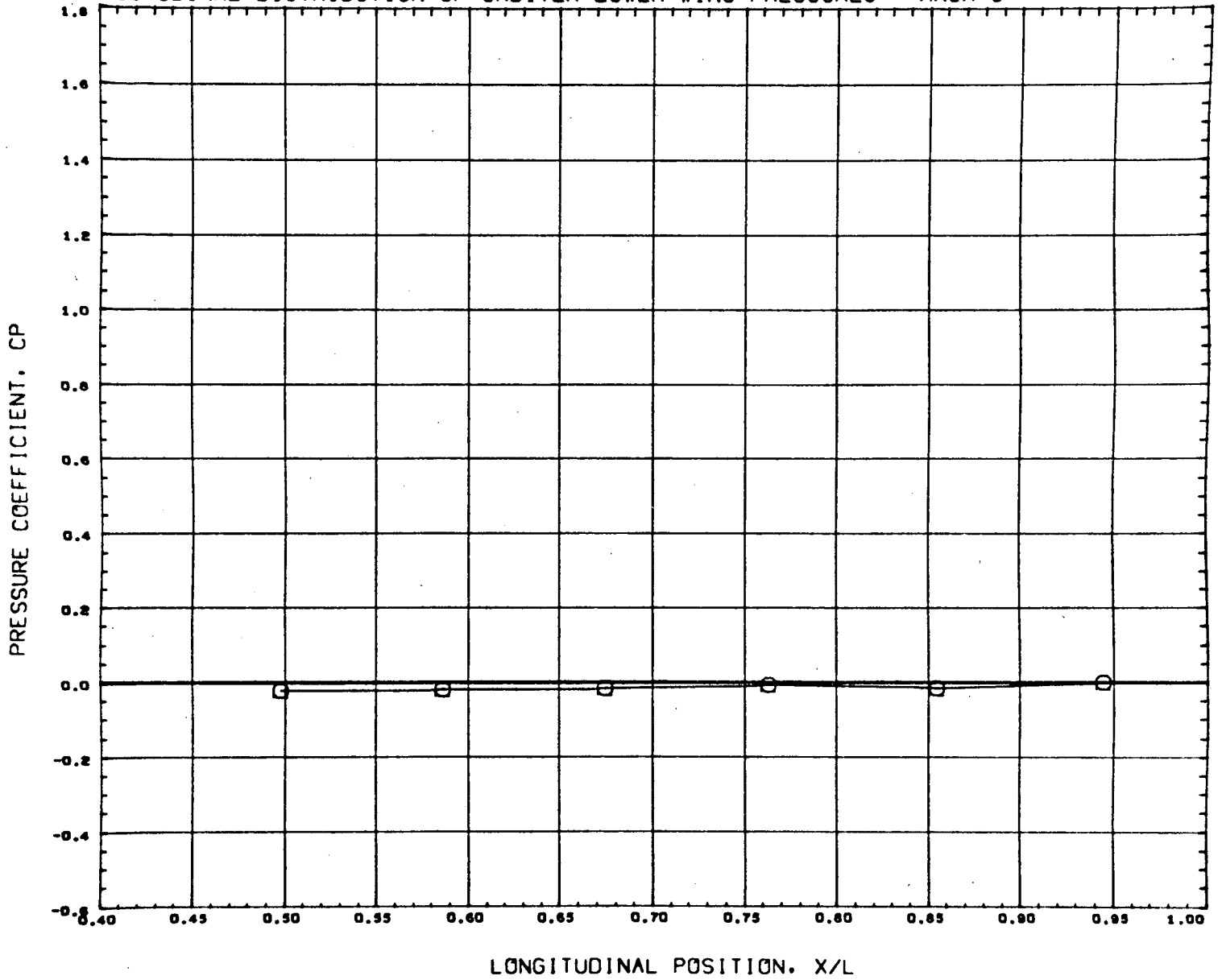
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.935	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

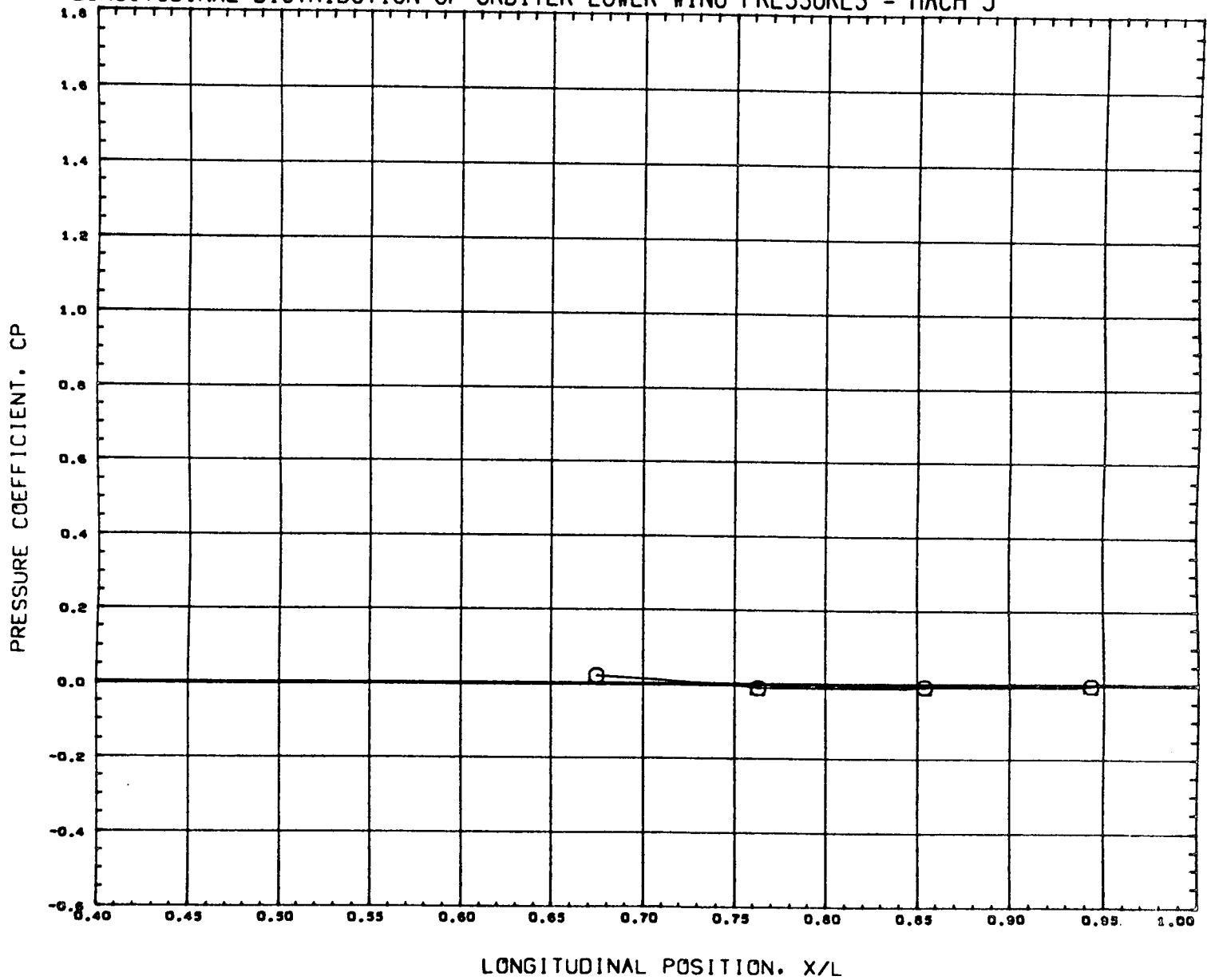
REFERENCE FILE

AEOC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 801

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.399	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.935	MACH	4.970
ALPHAT	0.000	ORBPOW	100.000
BSTPOW	90.000		

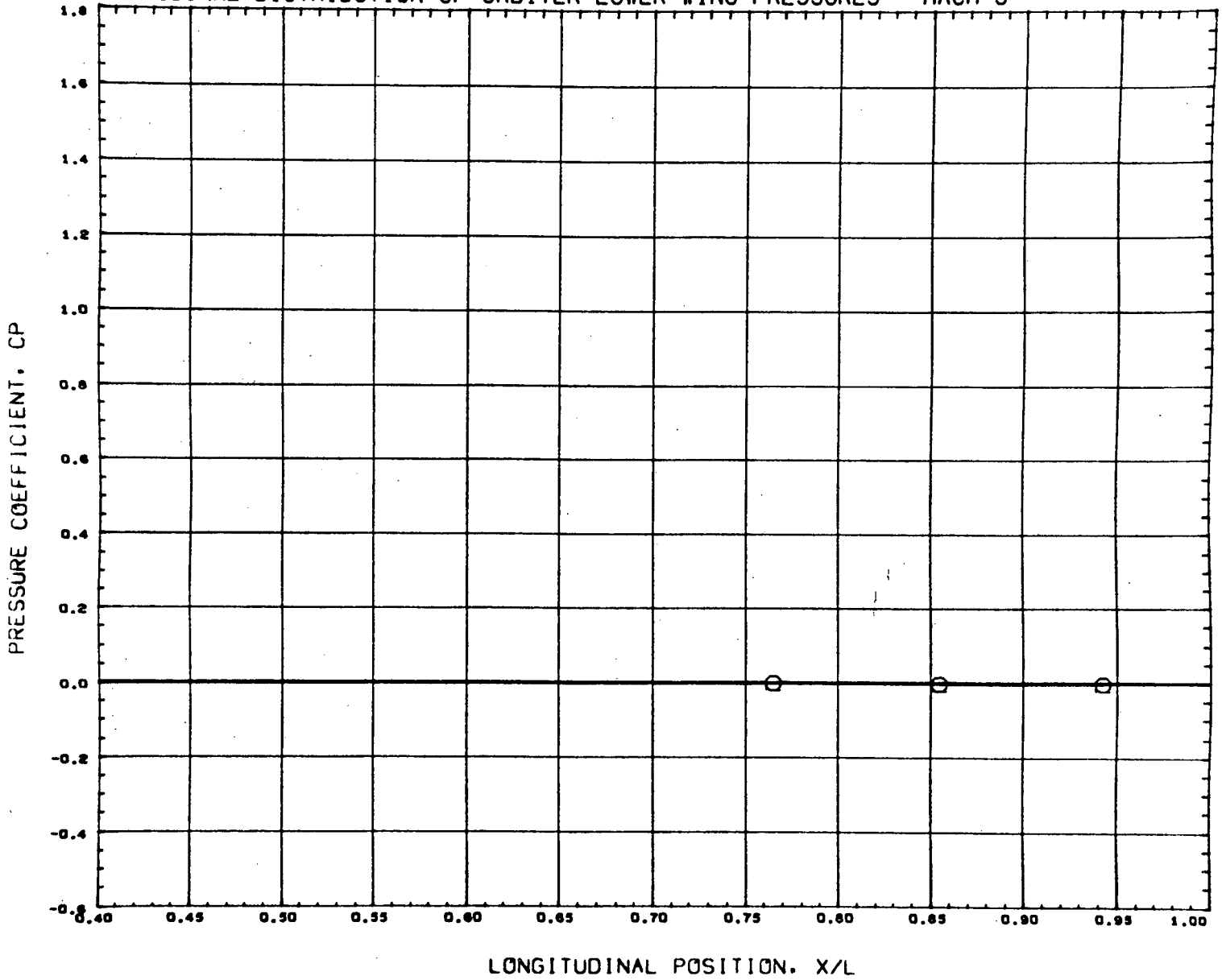
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 802

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.568	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.935	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

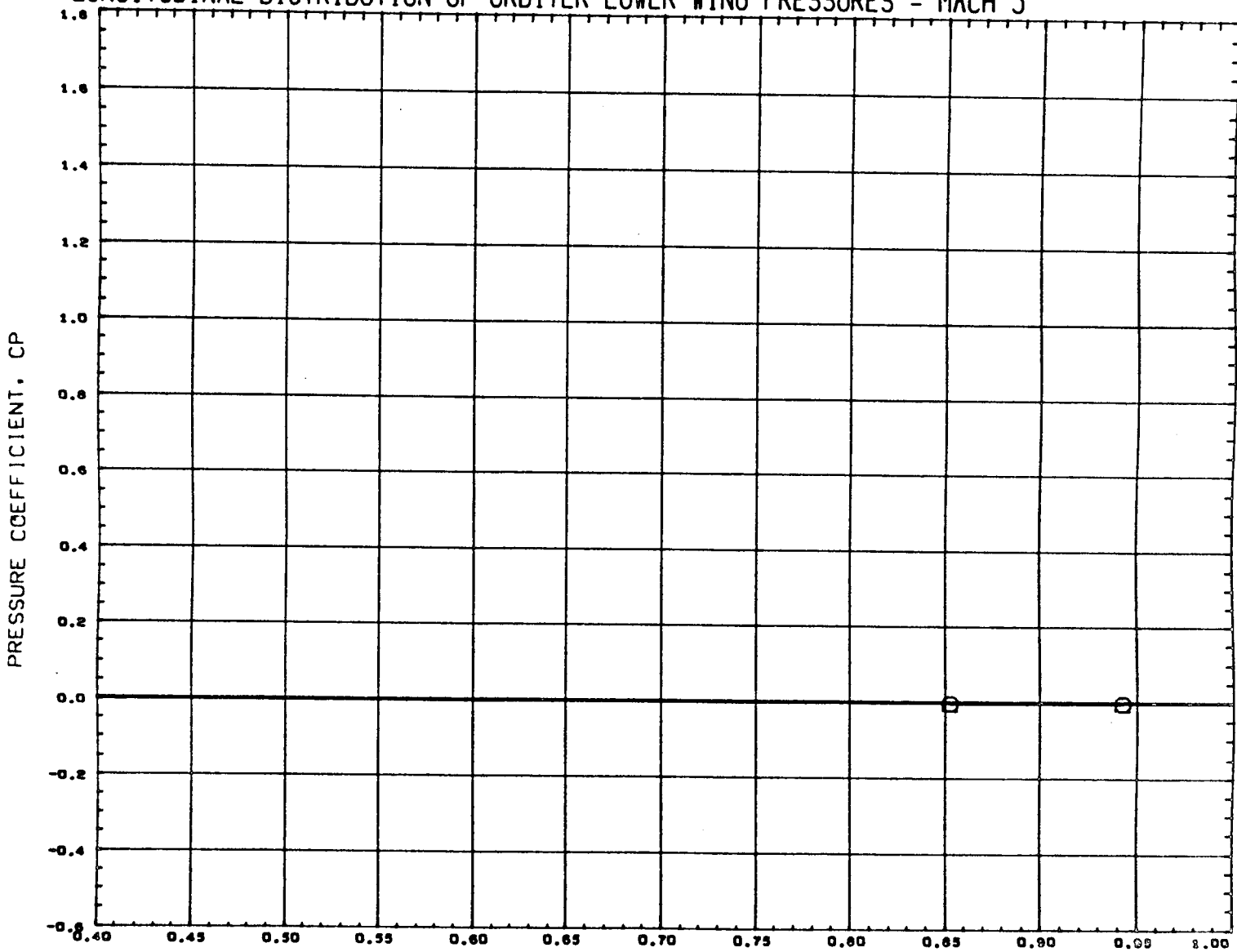
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 803

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.739	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.935	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

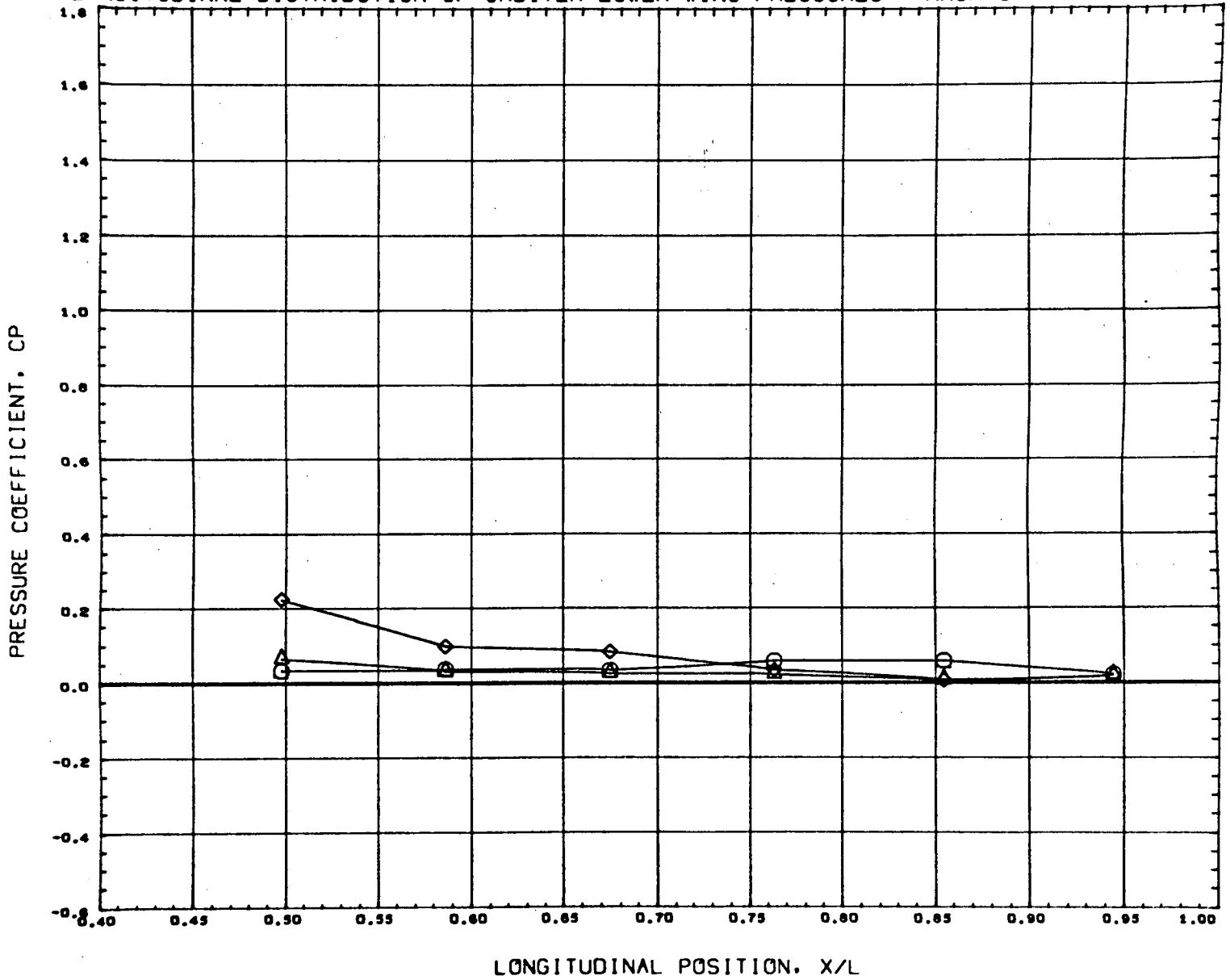
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8562•

PAGE 804

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

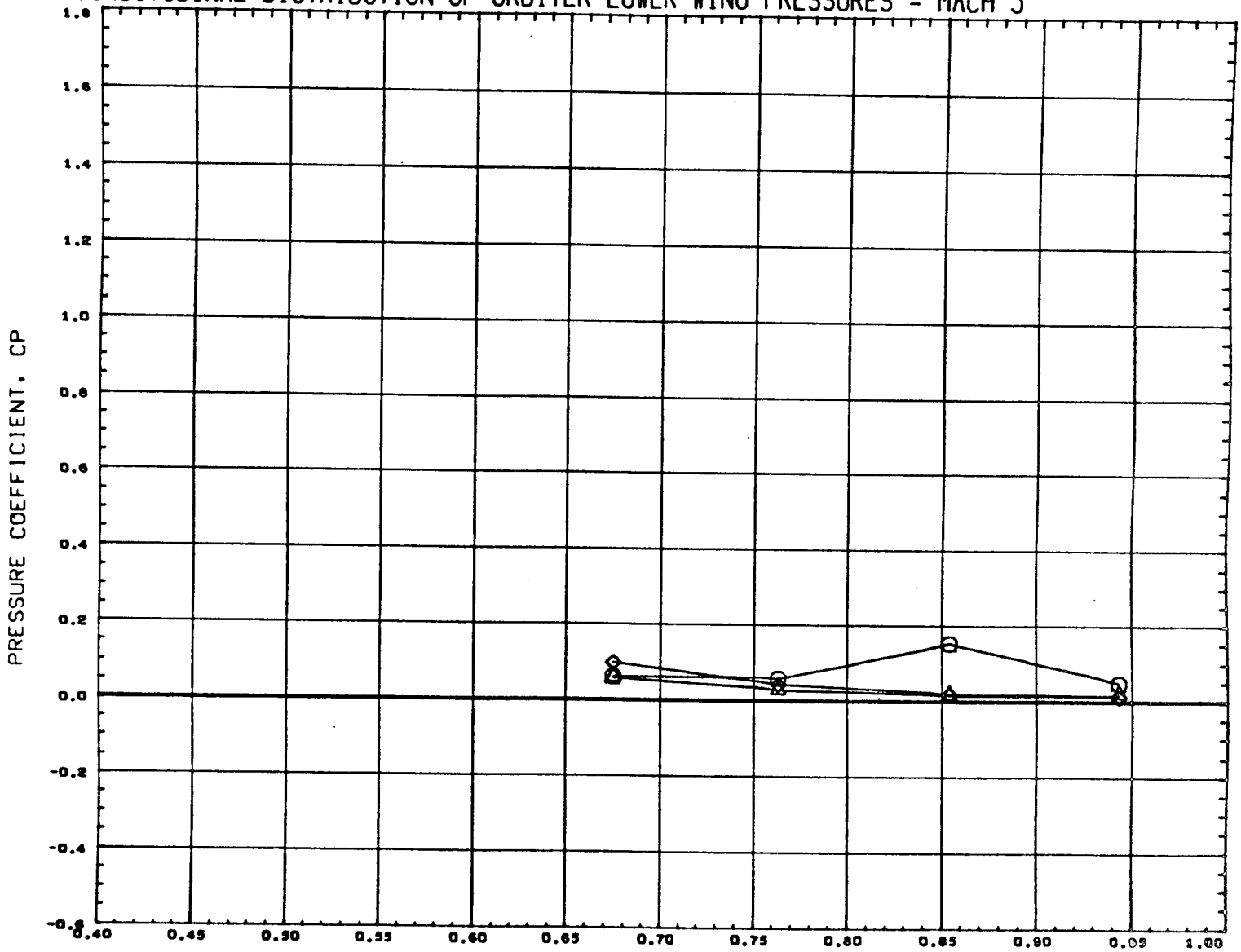


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.143	0.230	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.002	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.143	0.399	0.120
◇	0.193		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.002	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

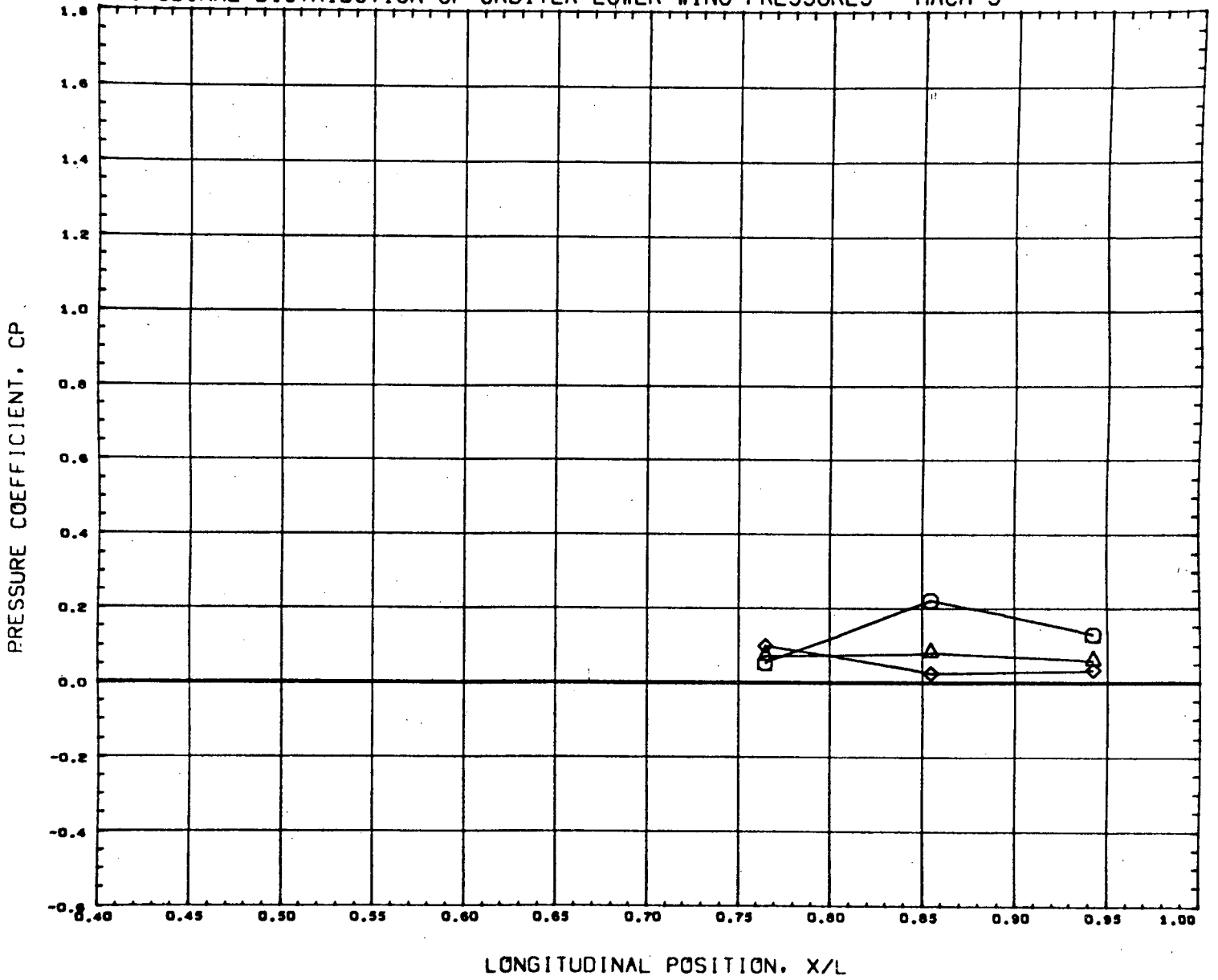
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8563•

PAGE 806

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

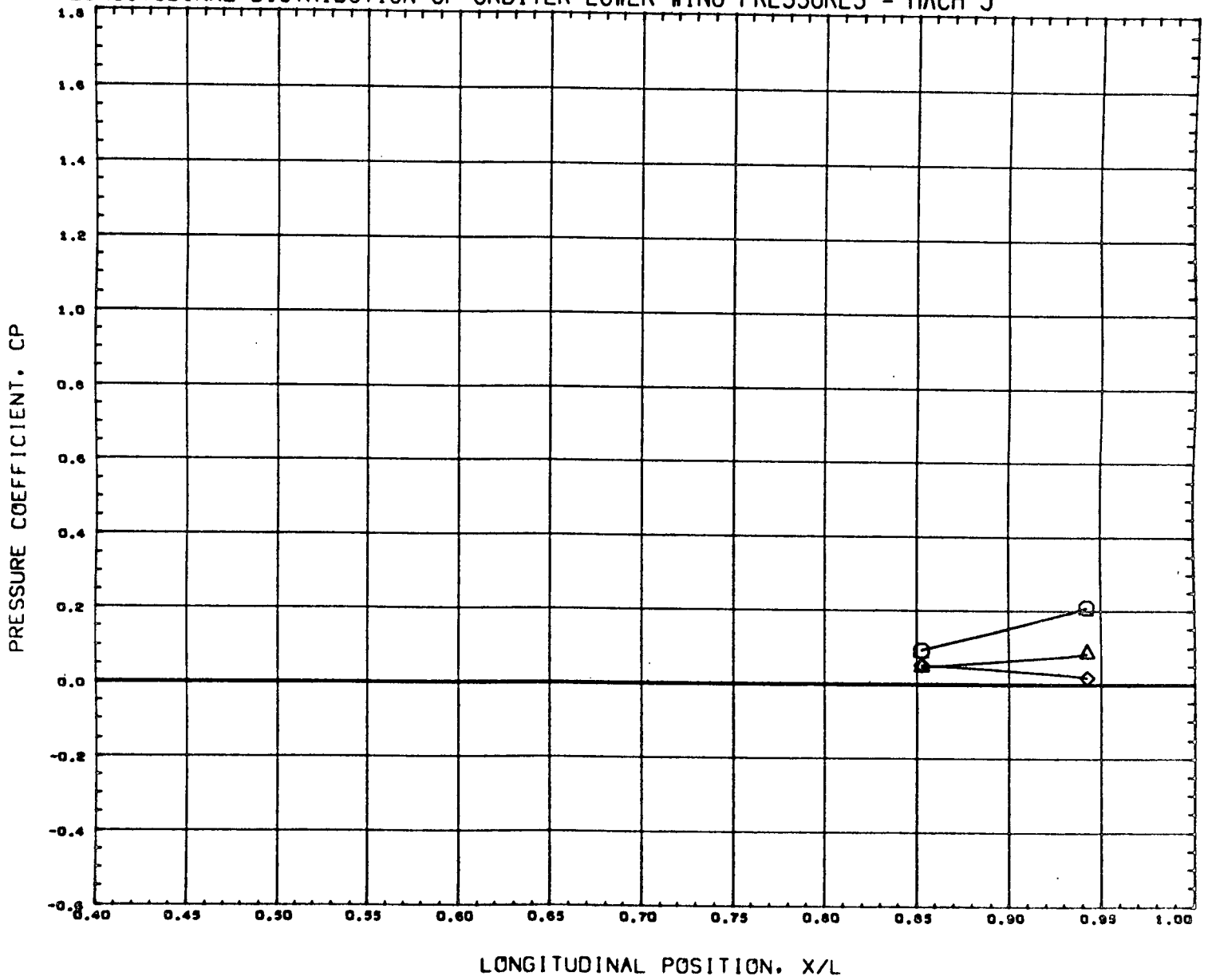


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.143	0.369	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHA B	0.002	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
ESTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.143	0.738	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.002	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

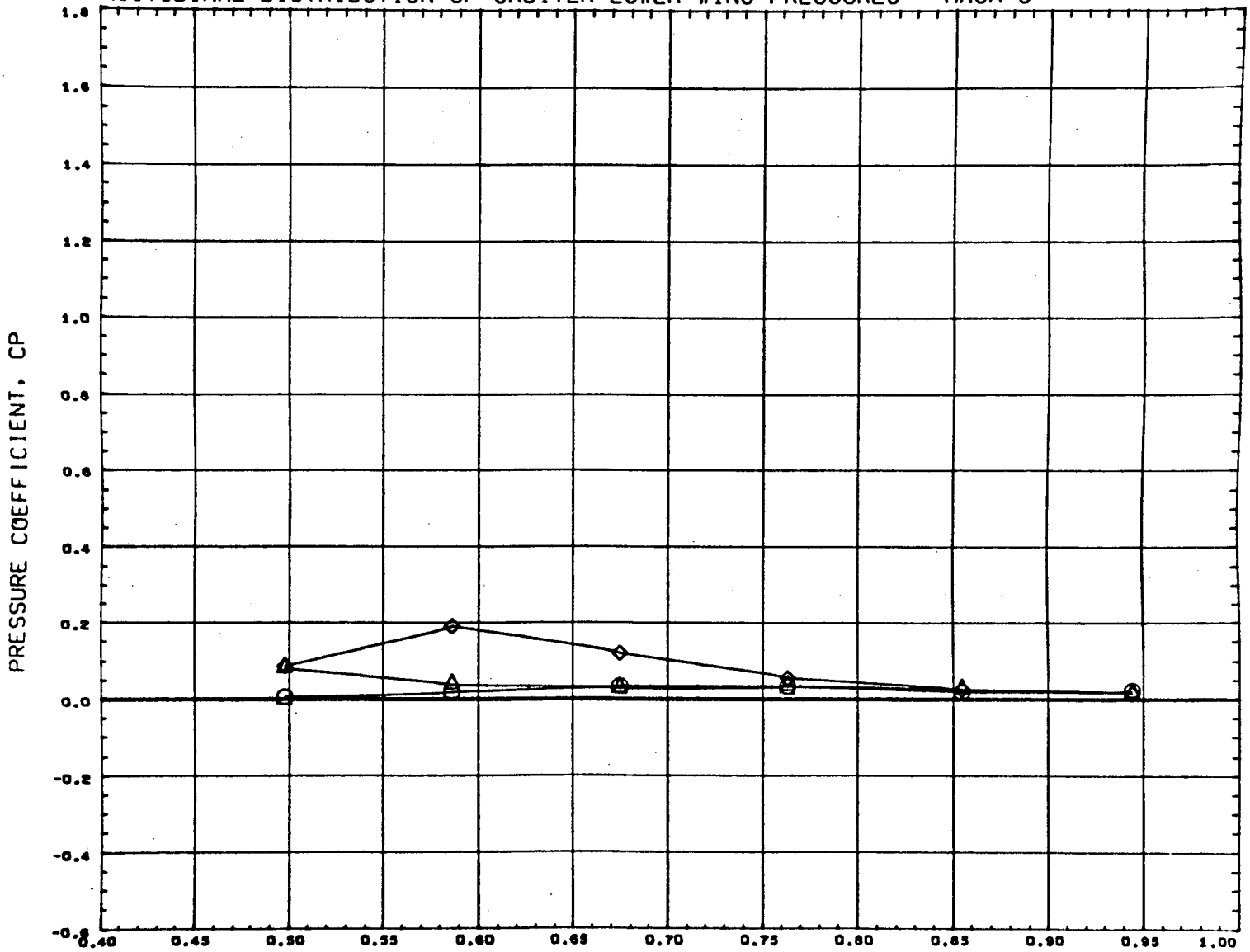
AEDC VA1163 MDAC ORBITER (LOWER WING)

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C.7

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.002	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

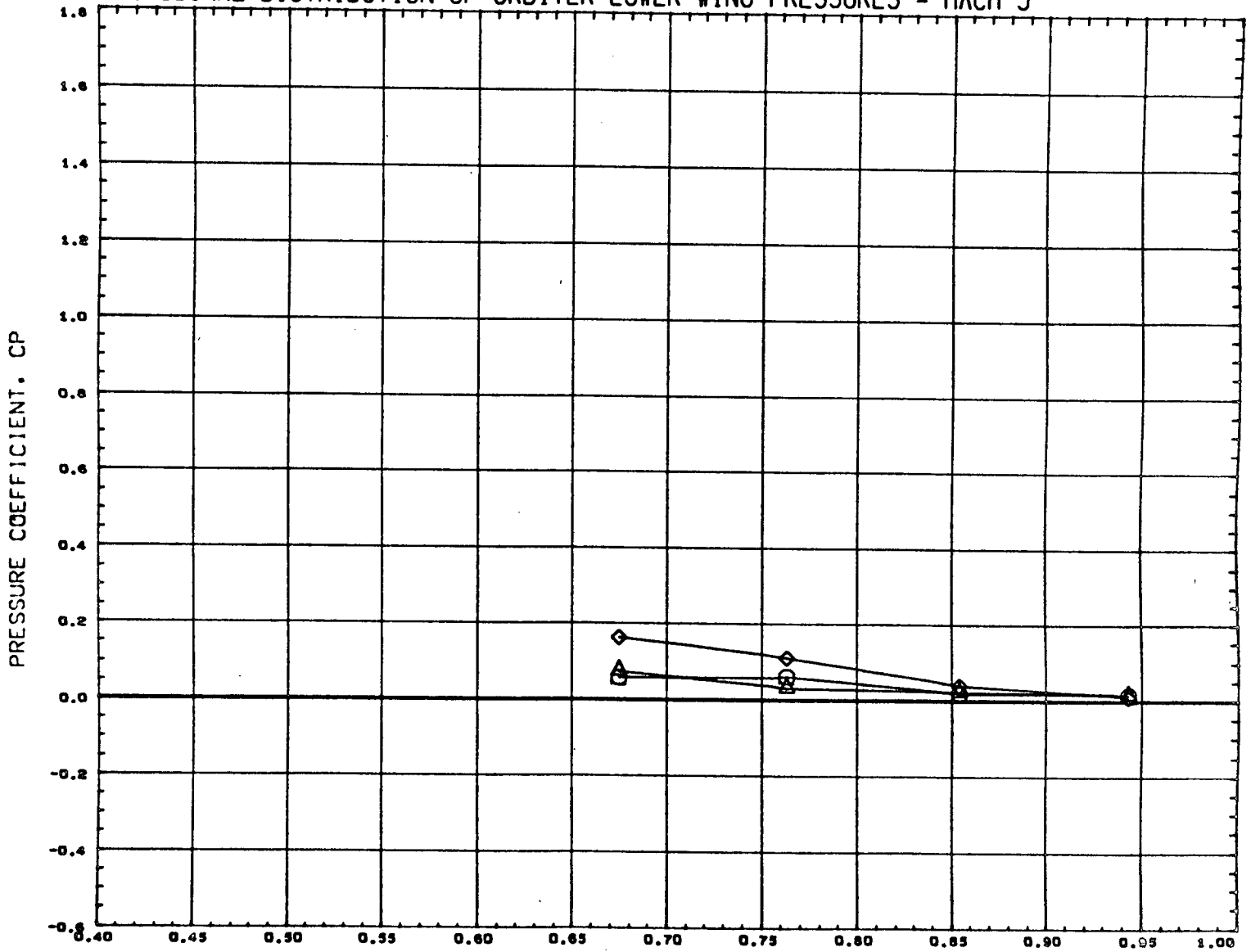
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



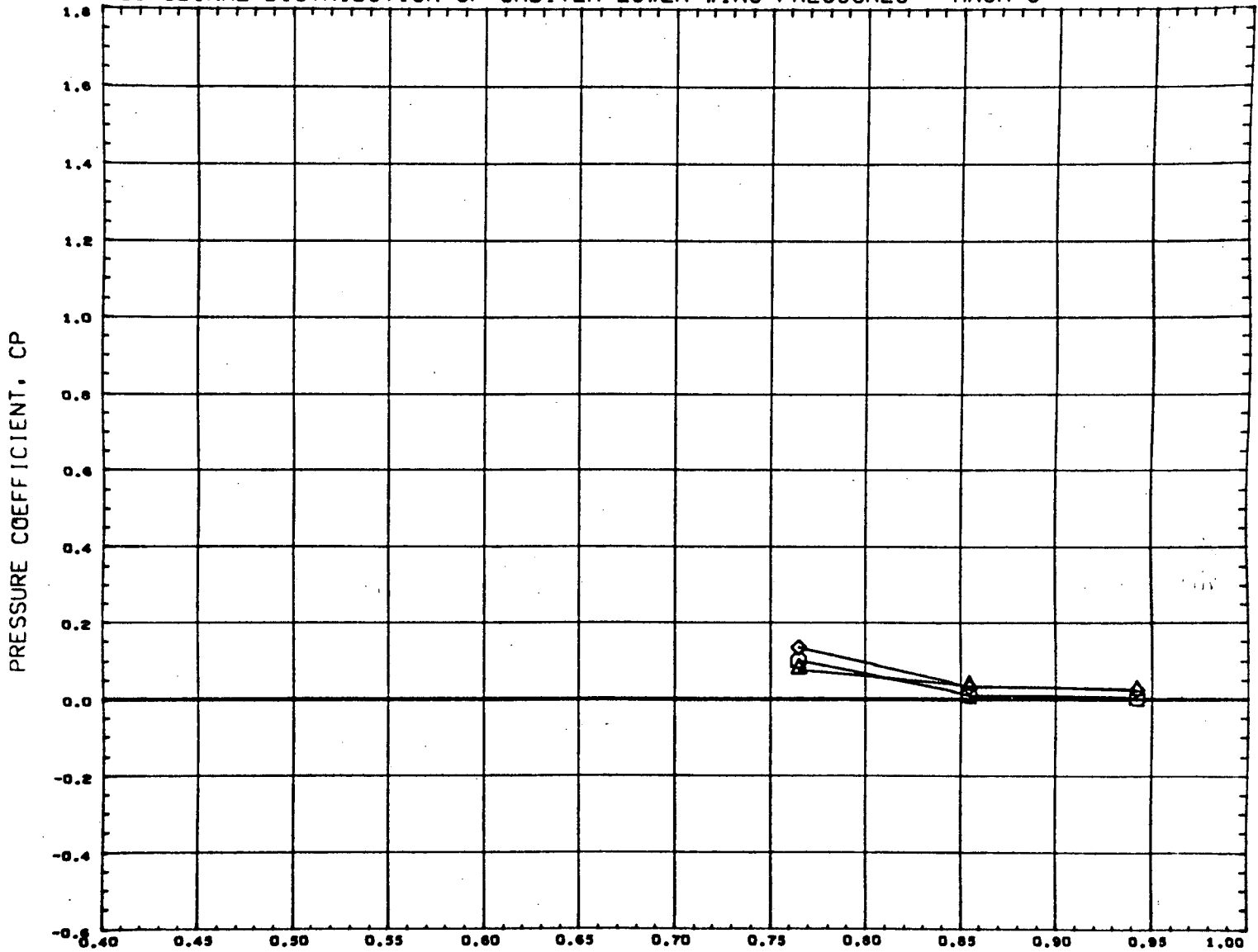
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.144	0.399	0.151
◻	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.002	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



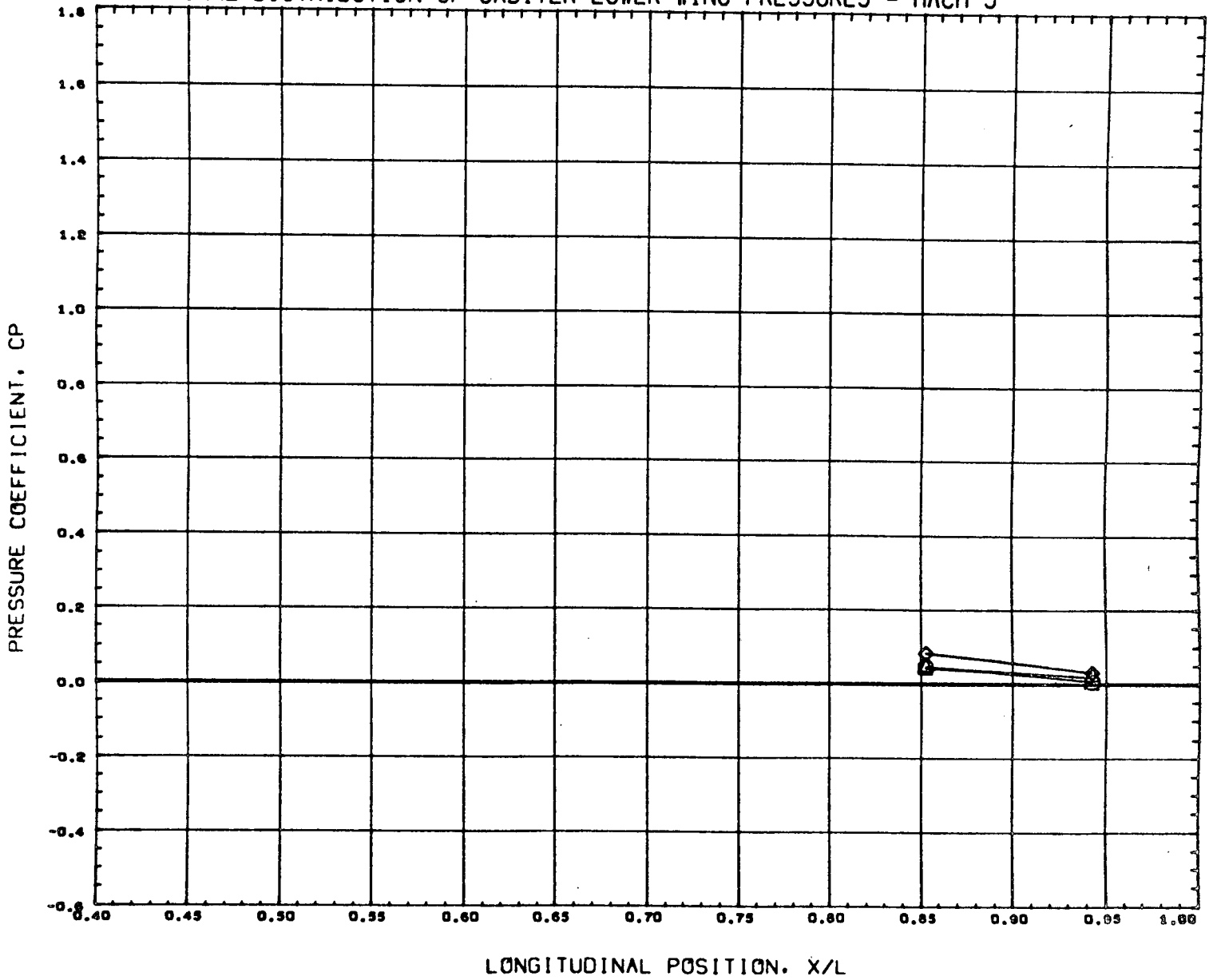
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.569	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.002	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.739	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.002	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

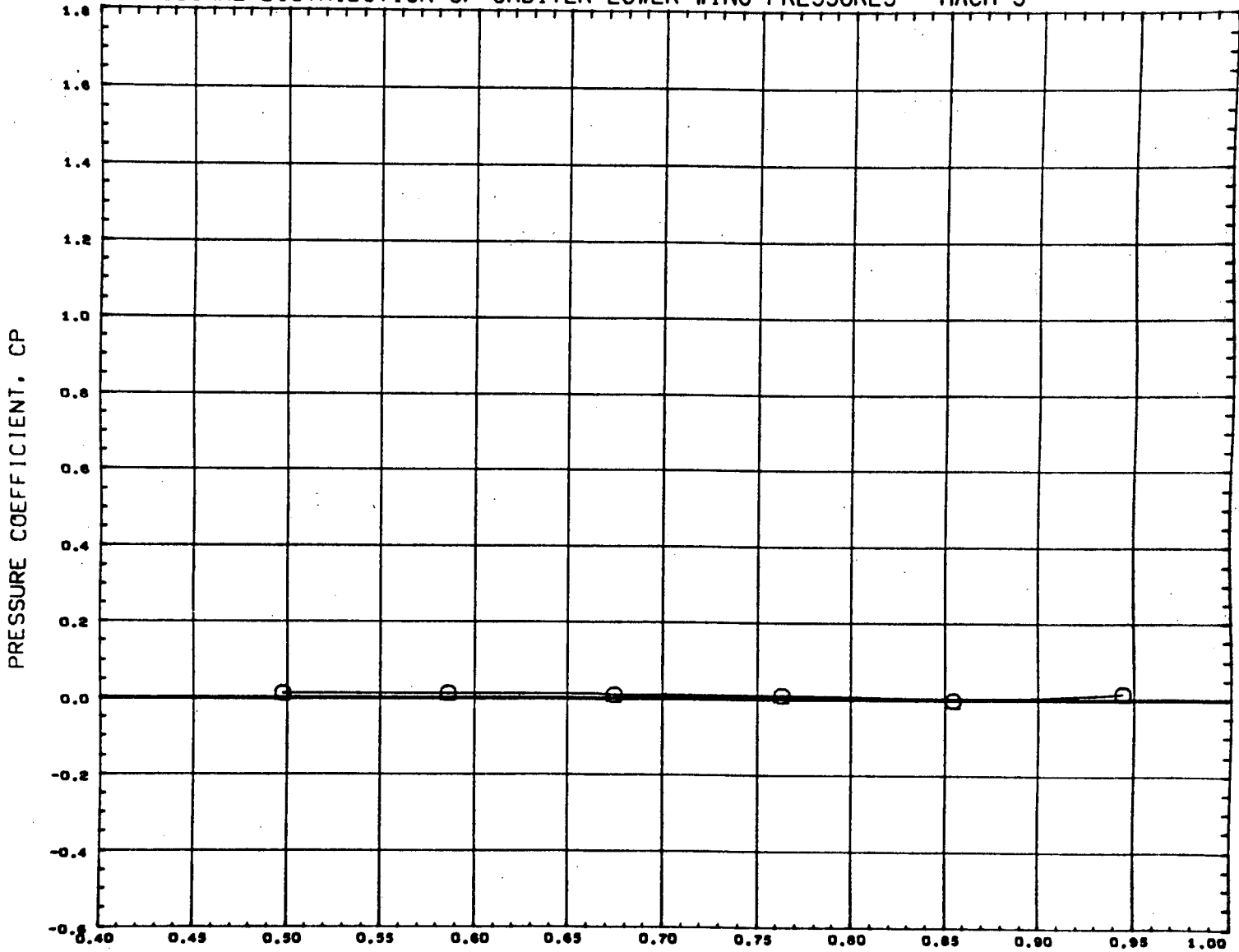
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.908

PARAMETRIC VALUES			
ALPHA B	0.002	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

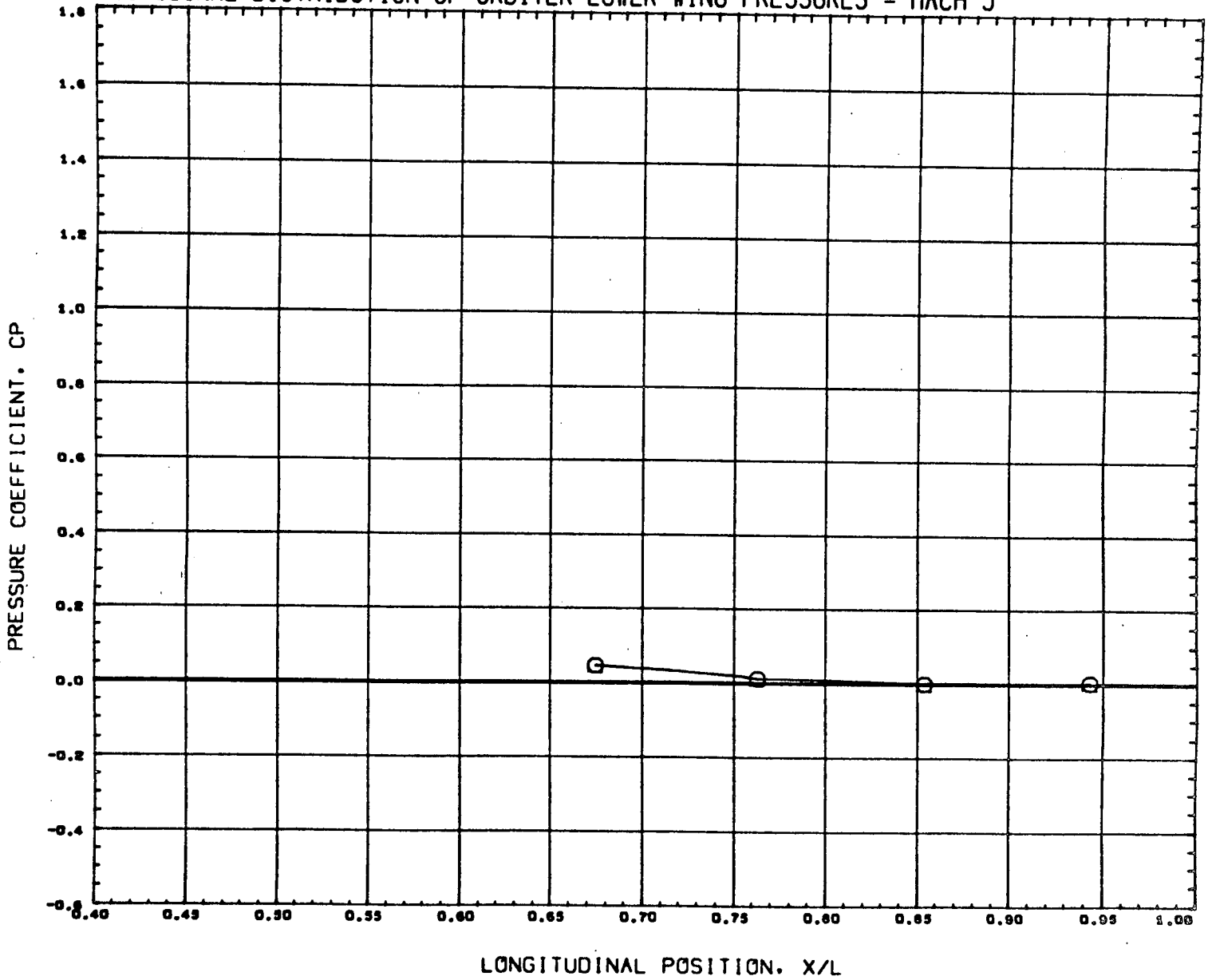
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.908

PARAMETRIC VALUES			
ALPHA B	0.002	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

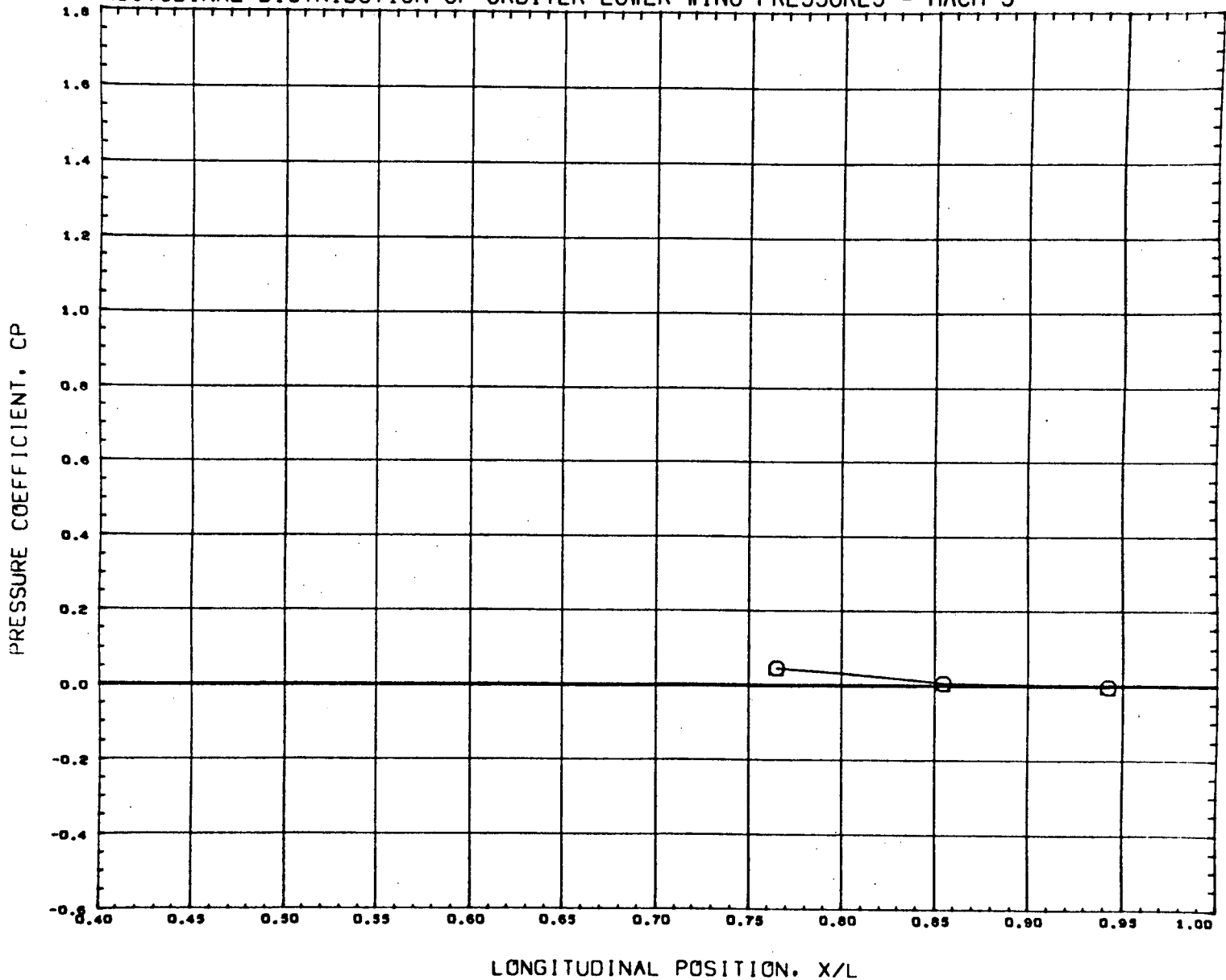
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.320 0.369 0.908

PARAMETRIC VALUES
 ALPHAB 0.002 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

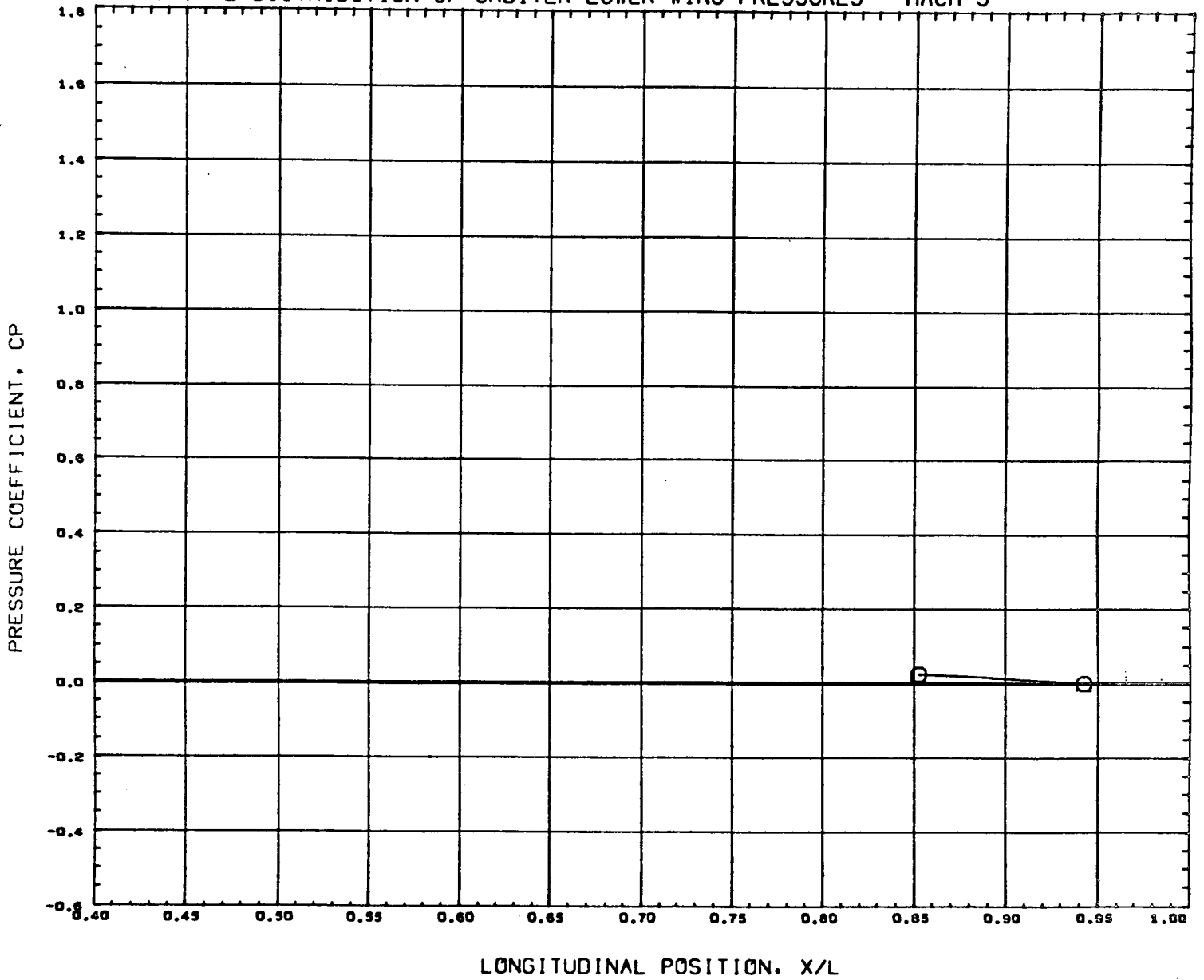
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.736	0.906

PARAMETRIC VALUES			
ALPHAB	0.002	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

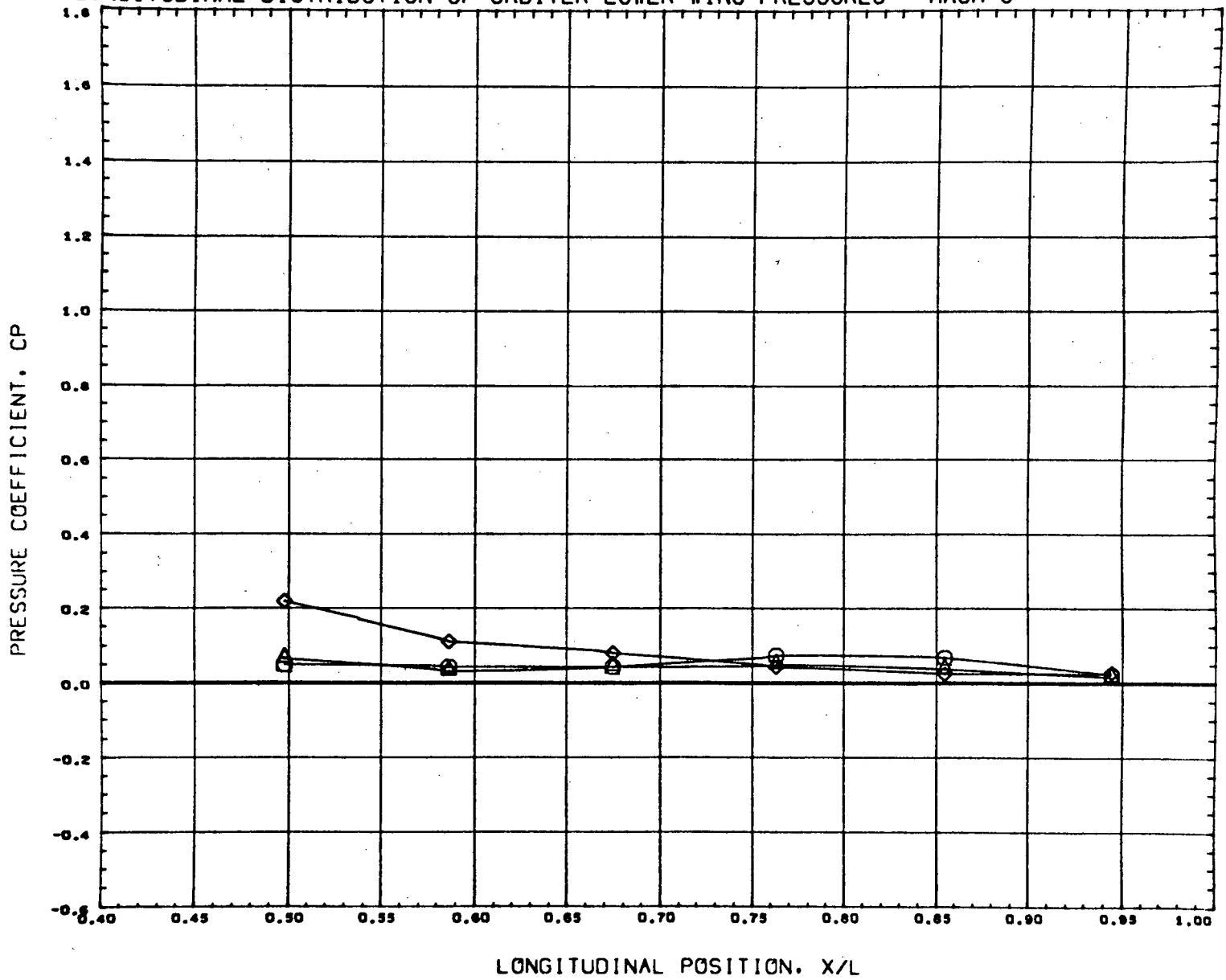
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.143	0.230	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	3.578	MACH 4.970
ALPHA1	0.000	ORBPOW 100.000
BSTPOW	50.000	

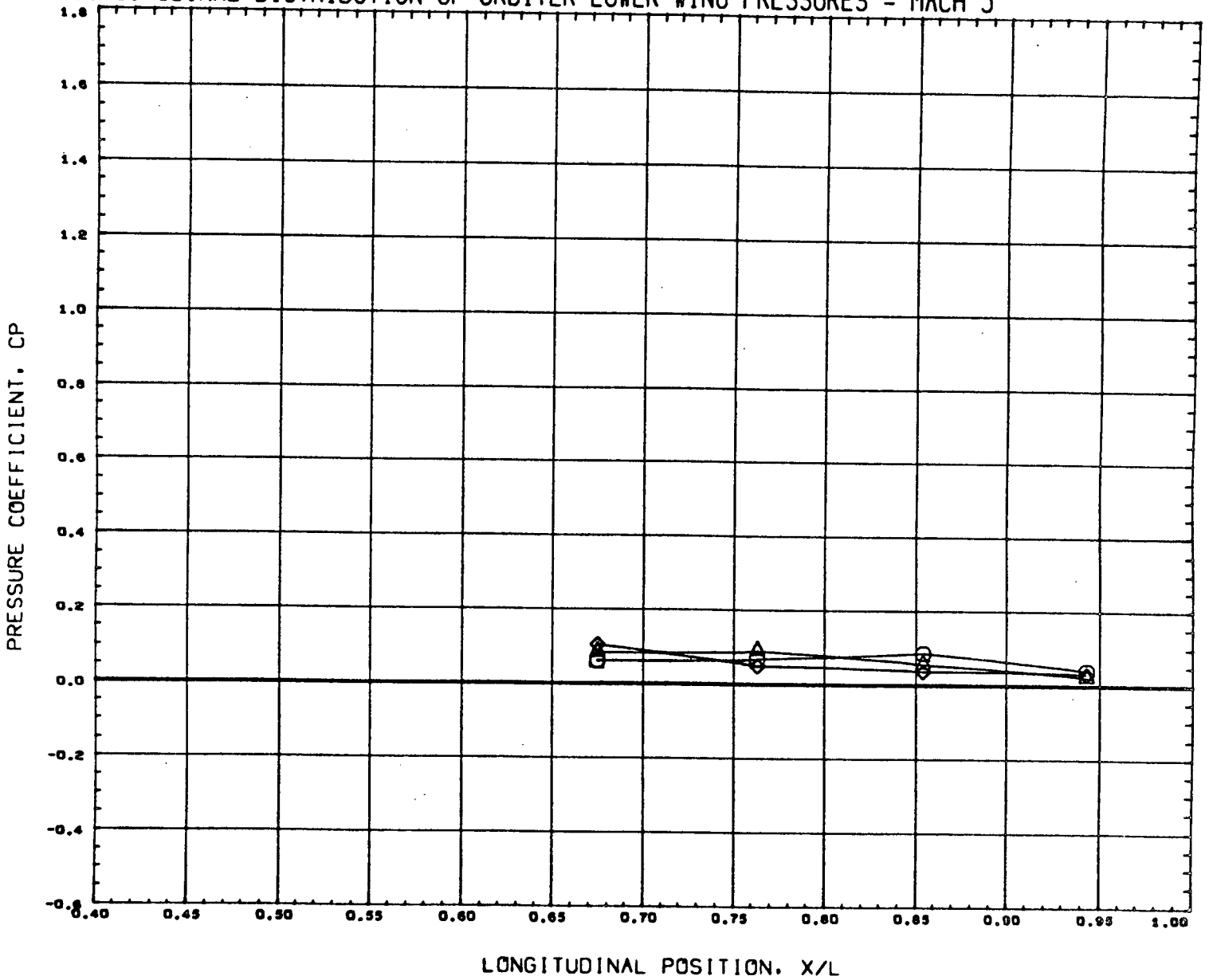
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.143	0.399	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	3.578	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	90.000		

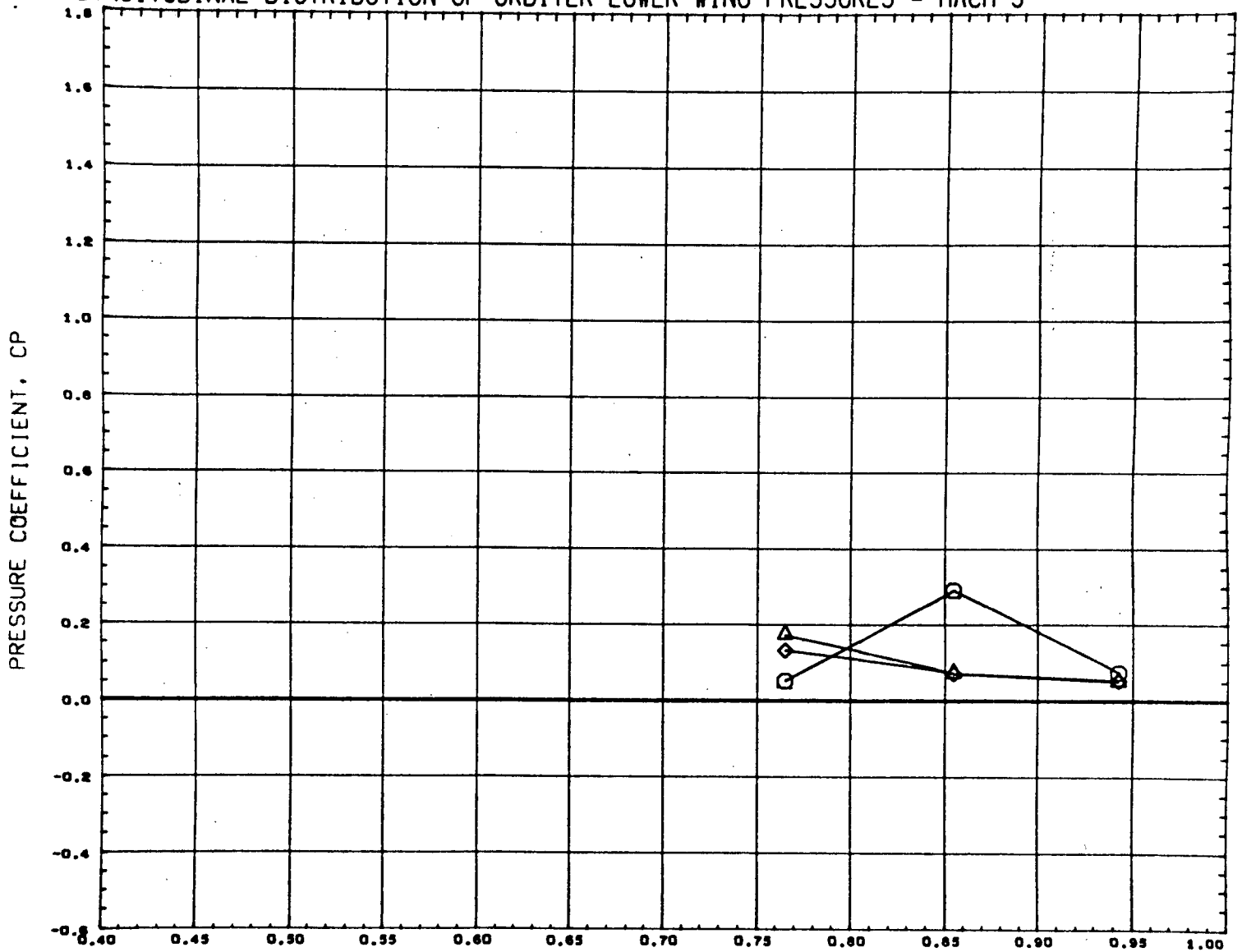
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



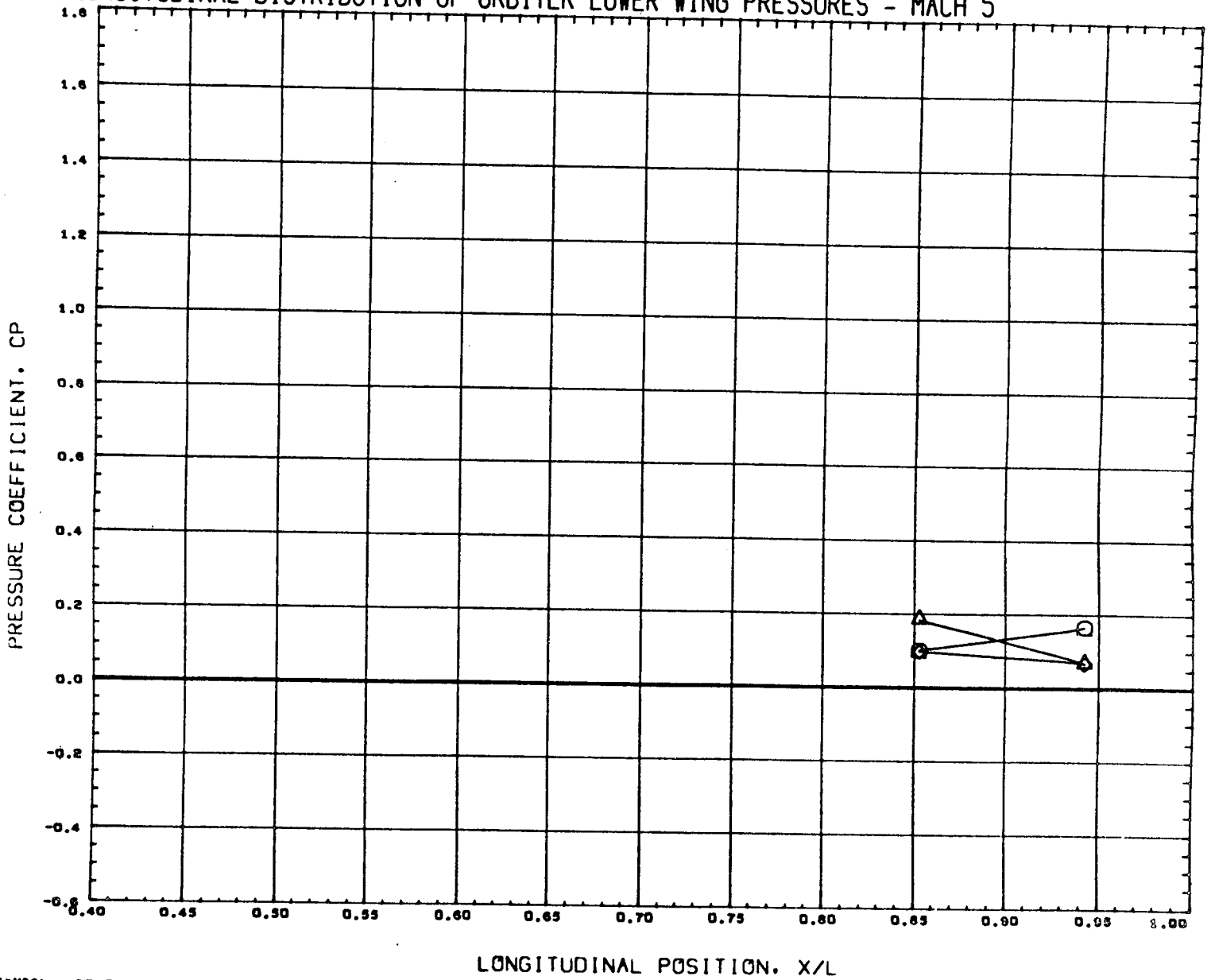
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.143	0.369	0.120
◇	0.103		
○	0.226		

PARAMETRIC VALUES			
ALPHAB	3.576	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.143	0.739	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	3.578	MACH	4.970
ALPHAT	0.000	ORBPCW	100.000
BSTPCW	50.000		

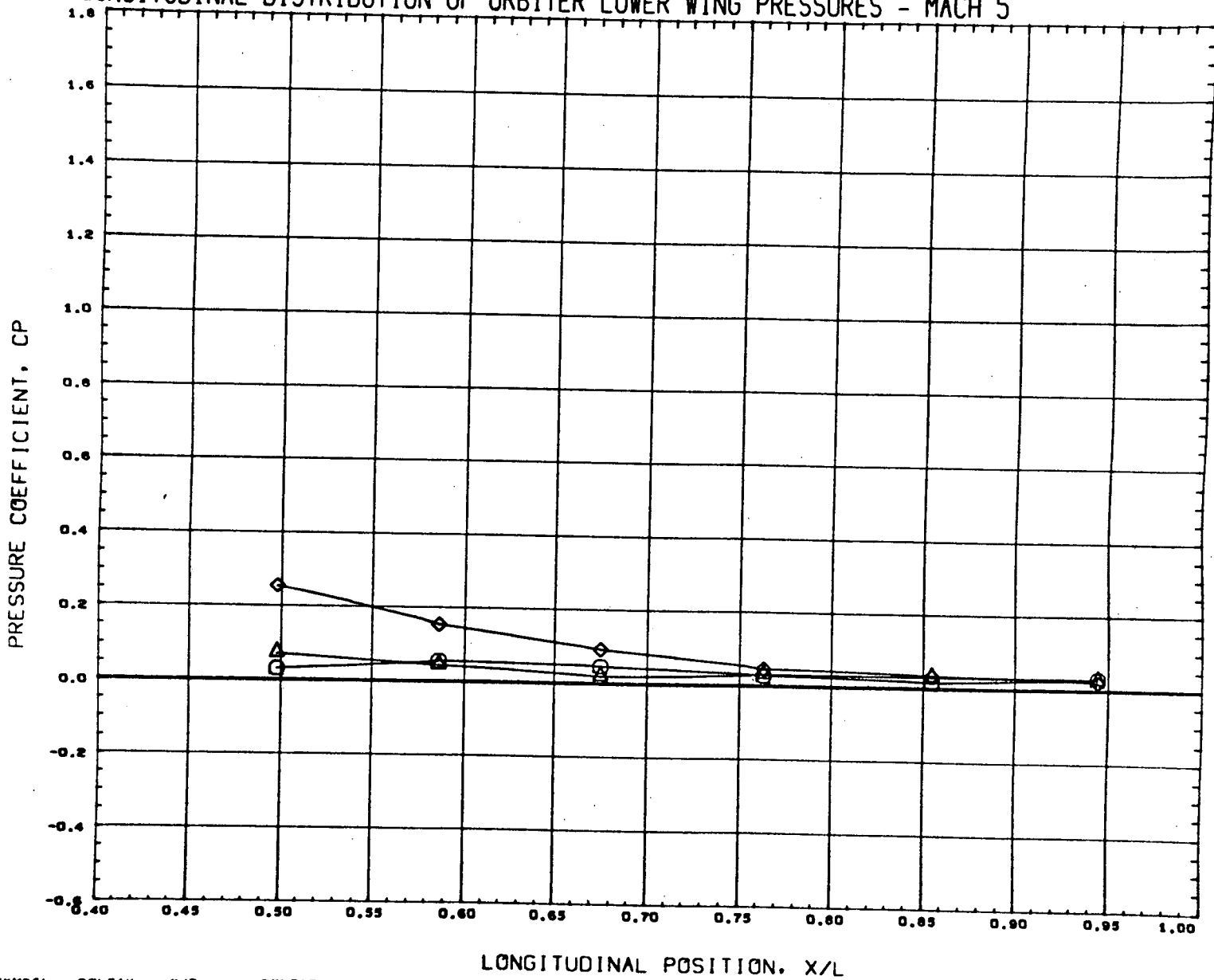
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	3.376	MACH . 4.970
ALPHA I	0.000	ORBPOW 100.000
BSTPOW	90.000	

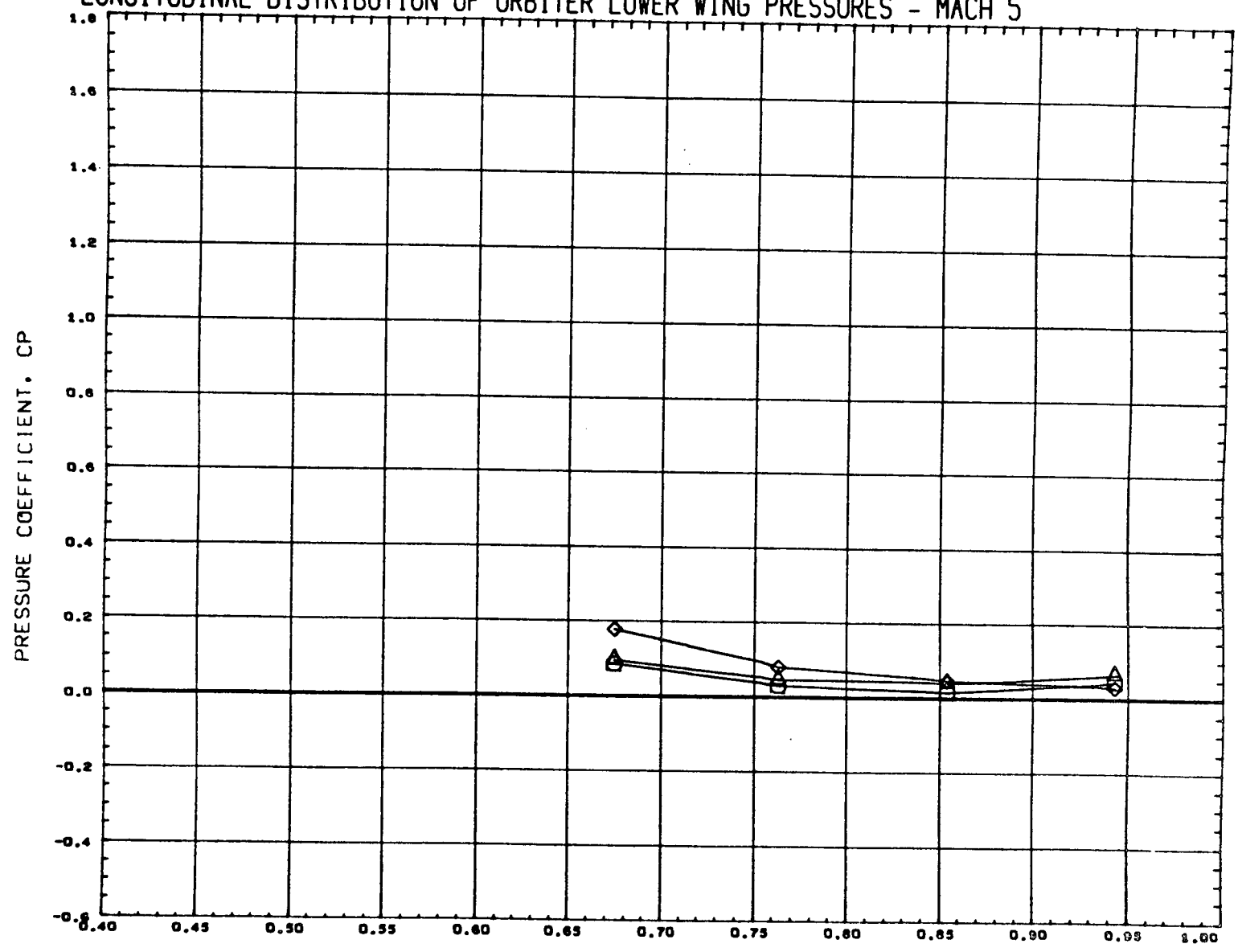
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



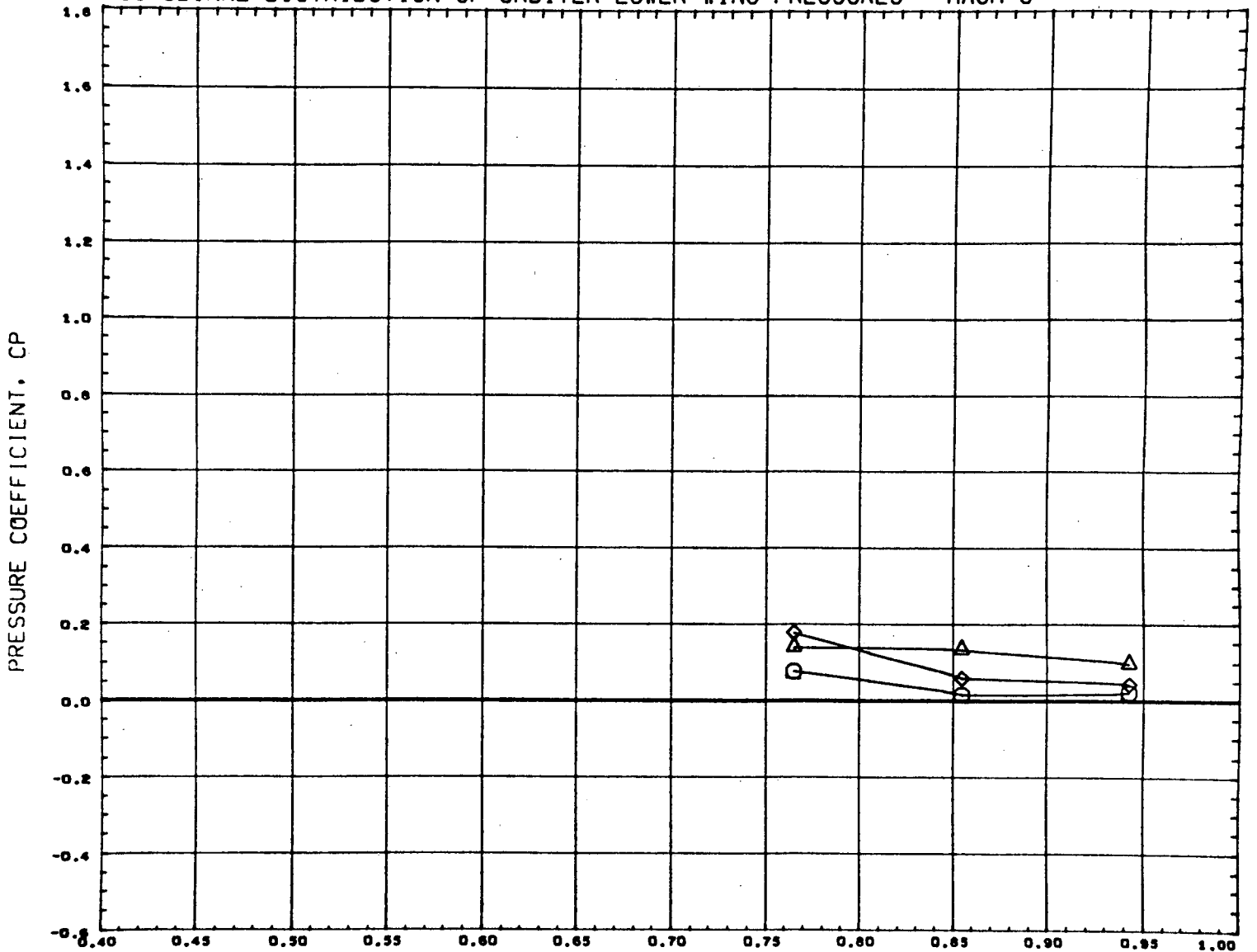
SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.151
△	0.103		
◇	0.226		

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	3.578	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.366	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	3.578	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

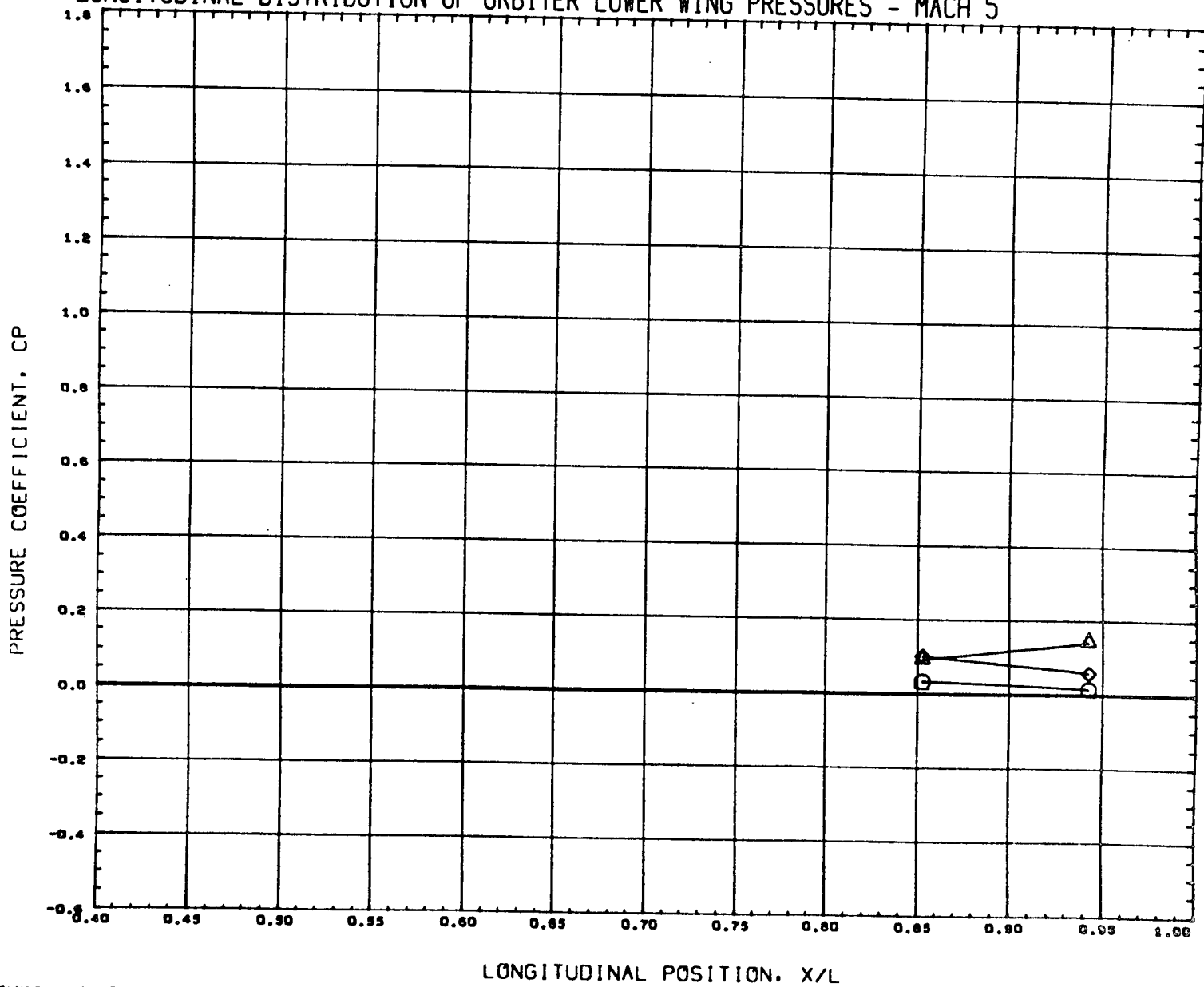
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.738	0.151
△	0.193		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	3.378	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

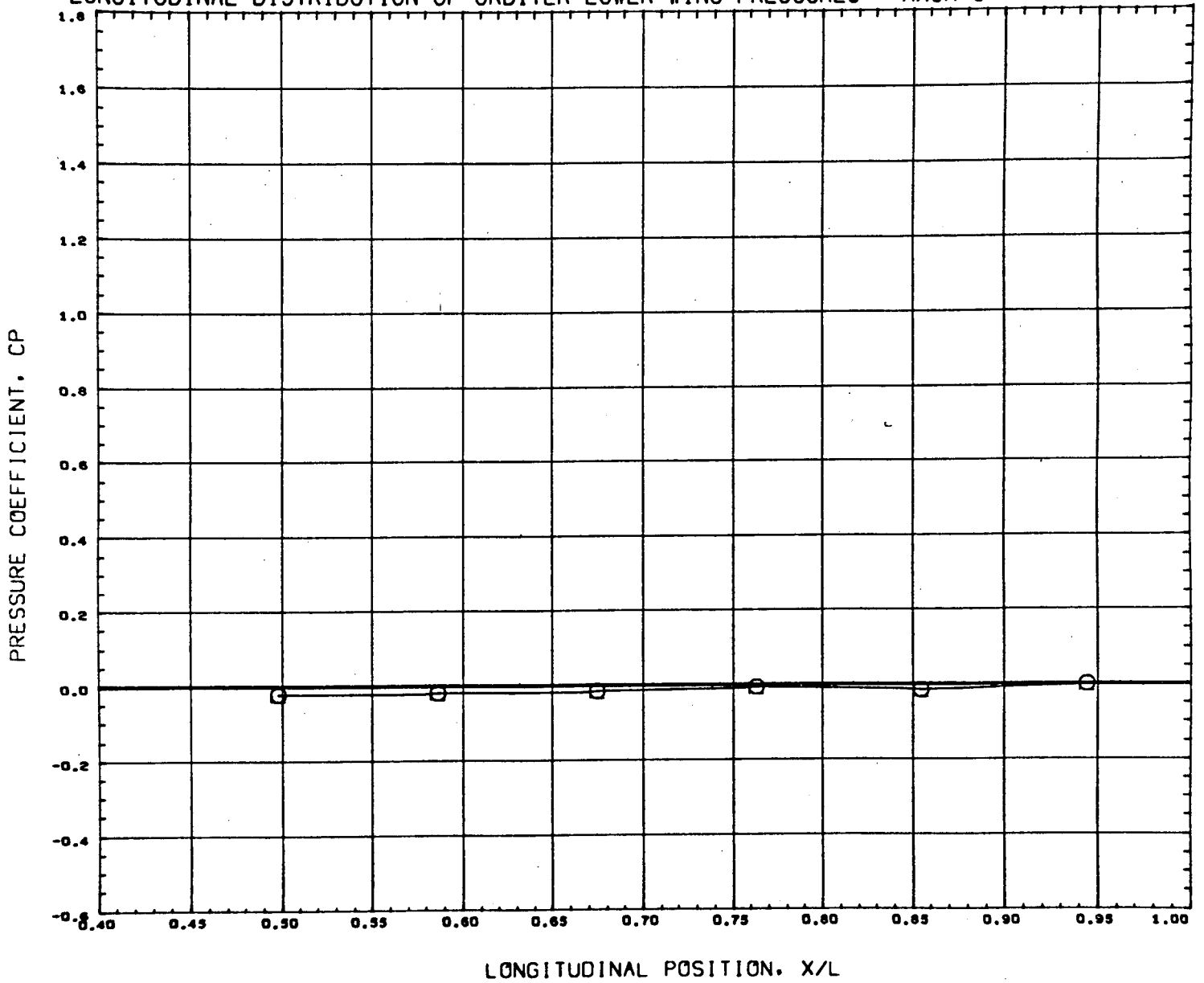
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.230	0.908

PARAMETRIC VALUES			
ALPHAB	3.578	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

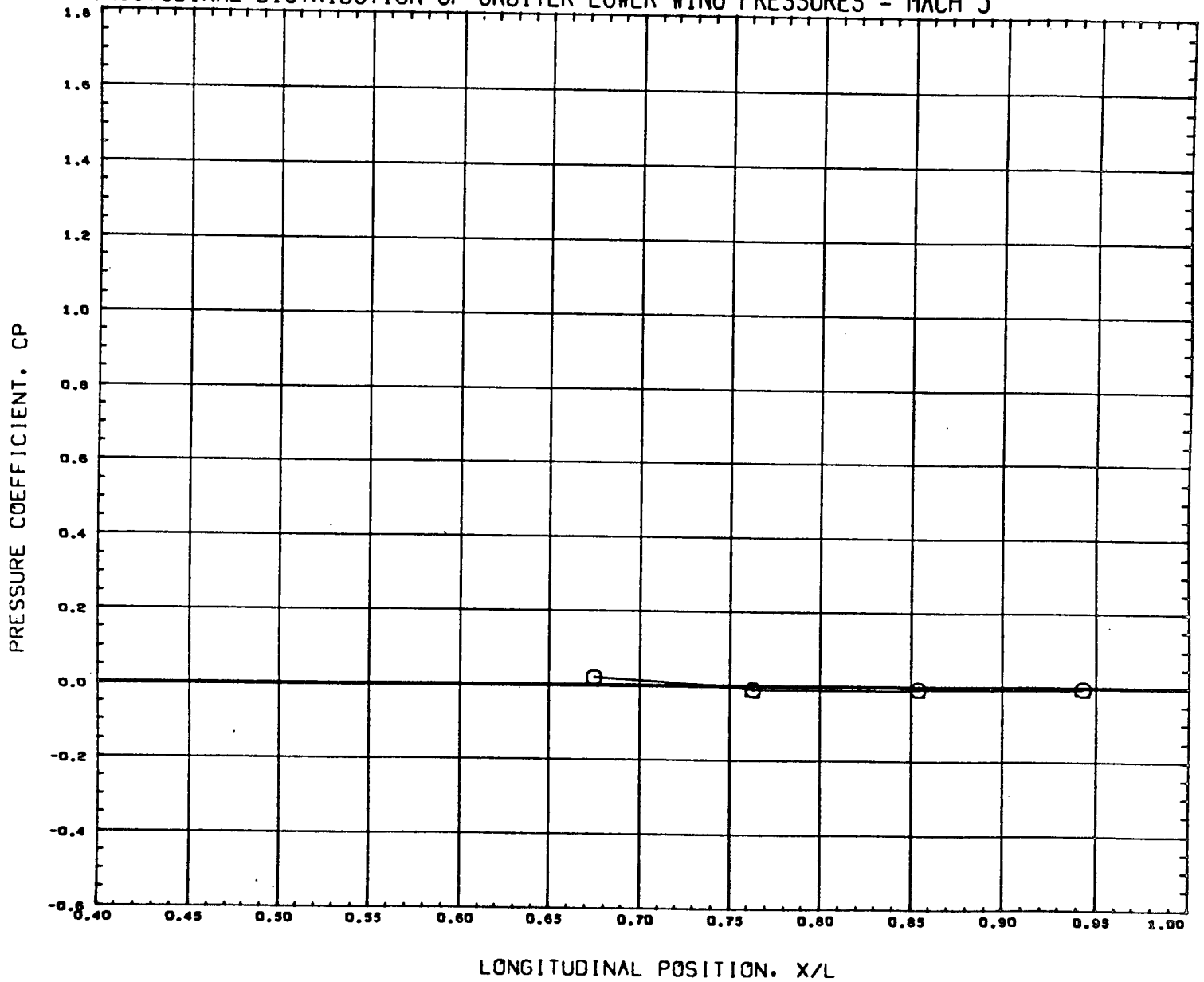
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AEOC VA1163 MOAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.909

PARAMETRIC VALUES			
ALPHAB	3.578	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	90.000		

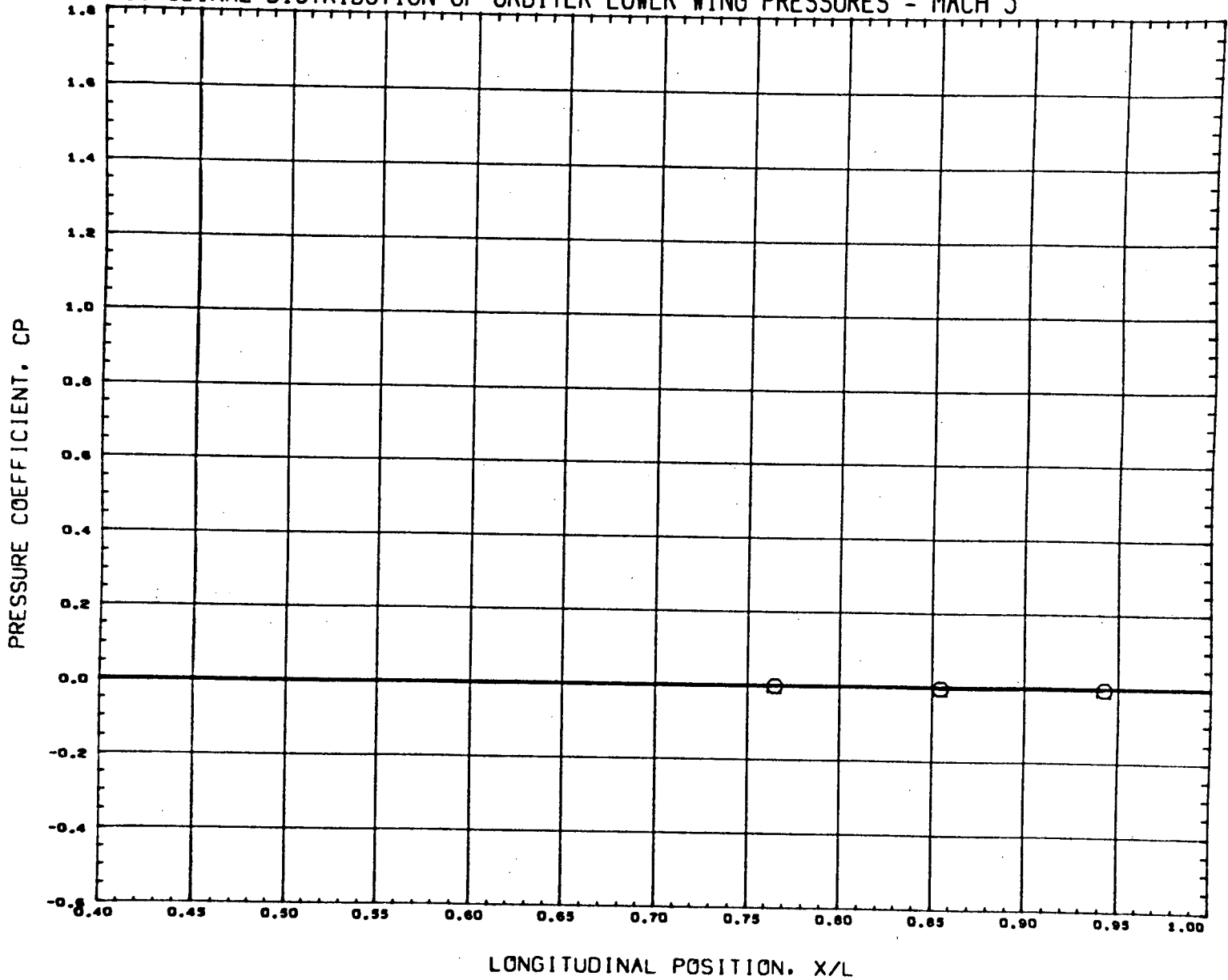
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/Z	DELTA Z
○	0.320	0.366	0.908

PARAMETRIC VALUES			
ALPHAB	3.378	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

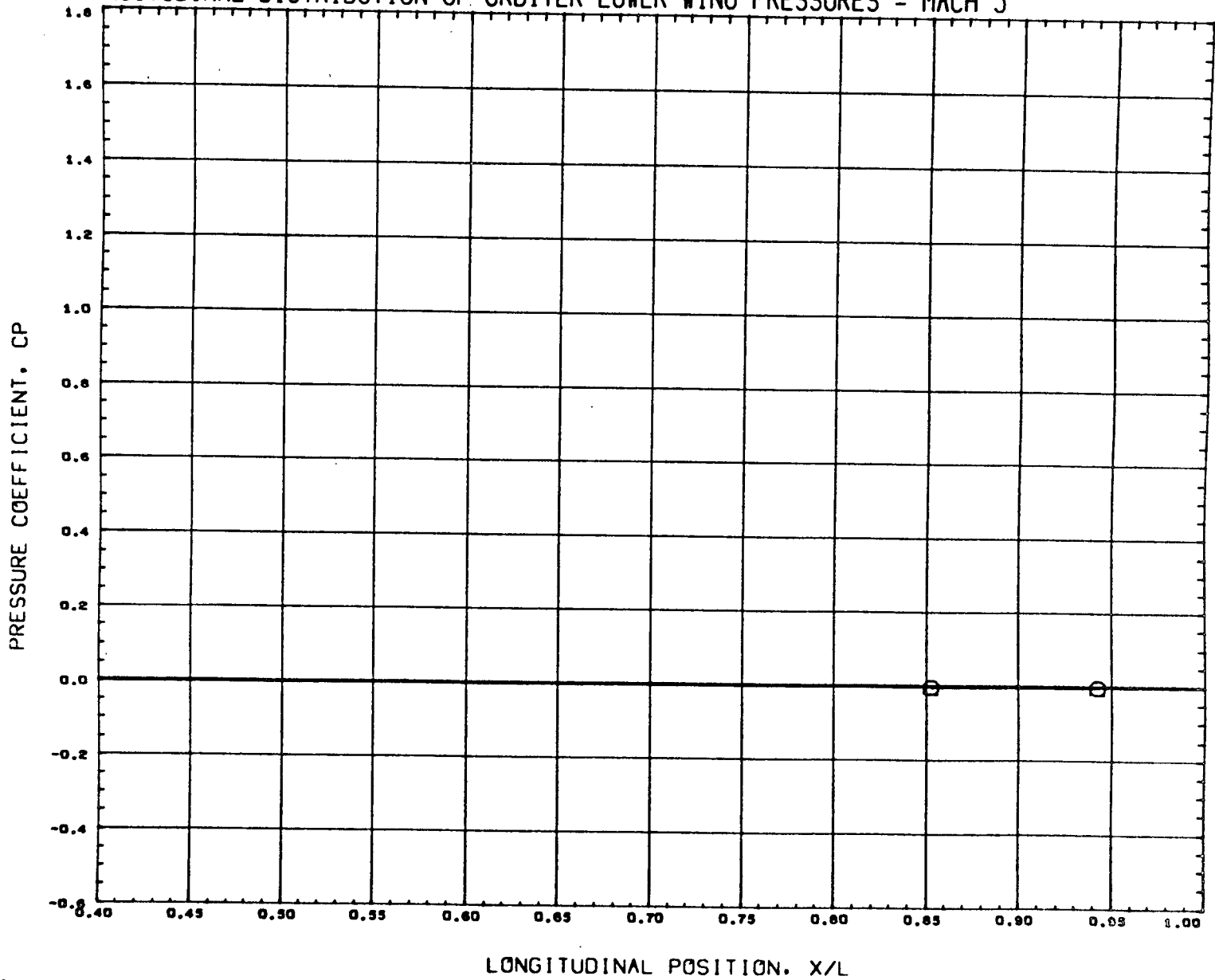
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AECG VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.736	0.906

PARAMETRIC VALUES			
ALPHAB	3.378	MACH	4.870
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

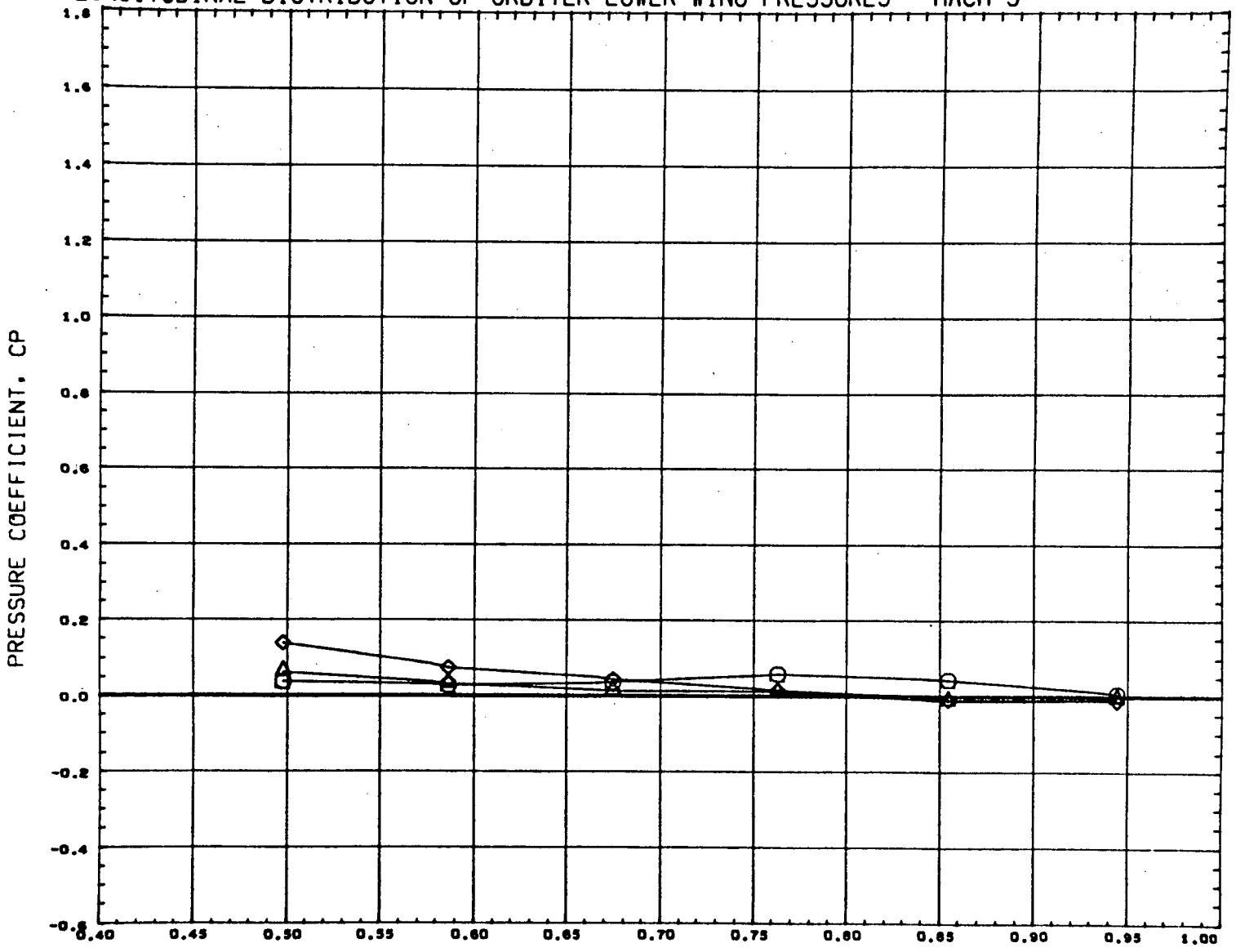
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8564•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	- 4.930	MACH 4.970
ALPHA I	0.000	ORBPOW 0.000
BSTPOW	0.000	

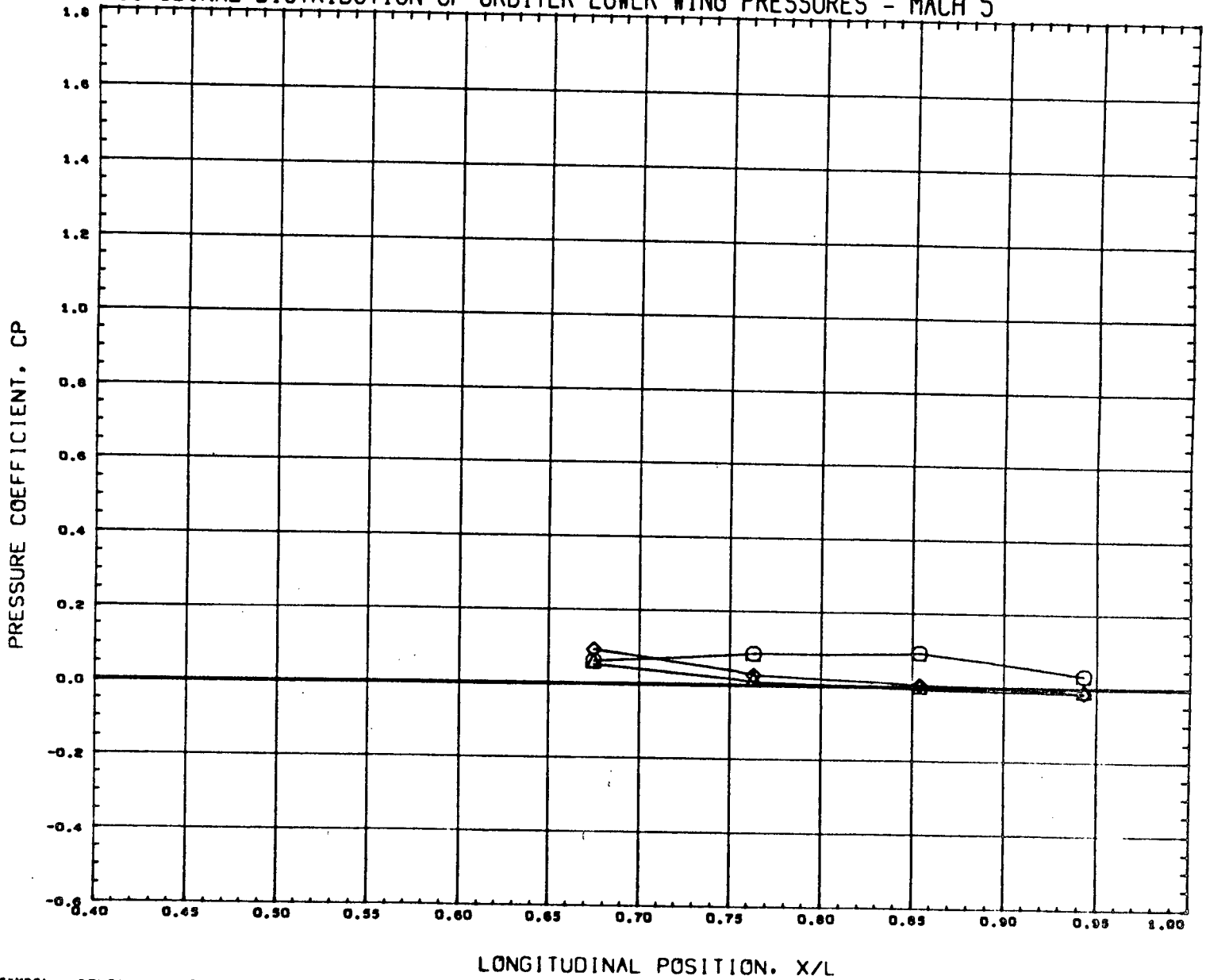
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

PAGE 829

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.930	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

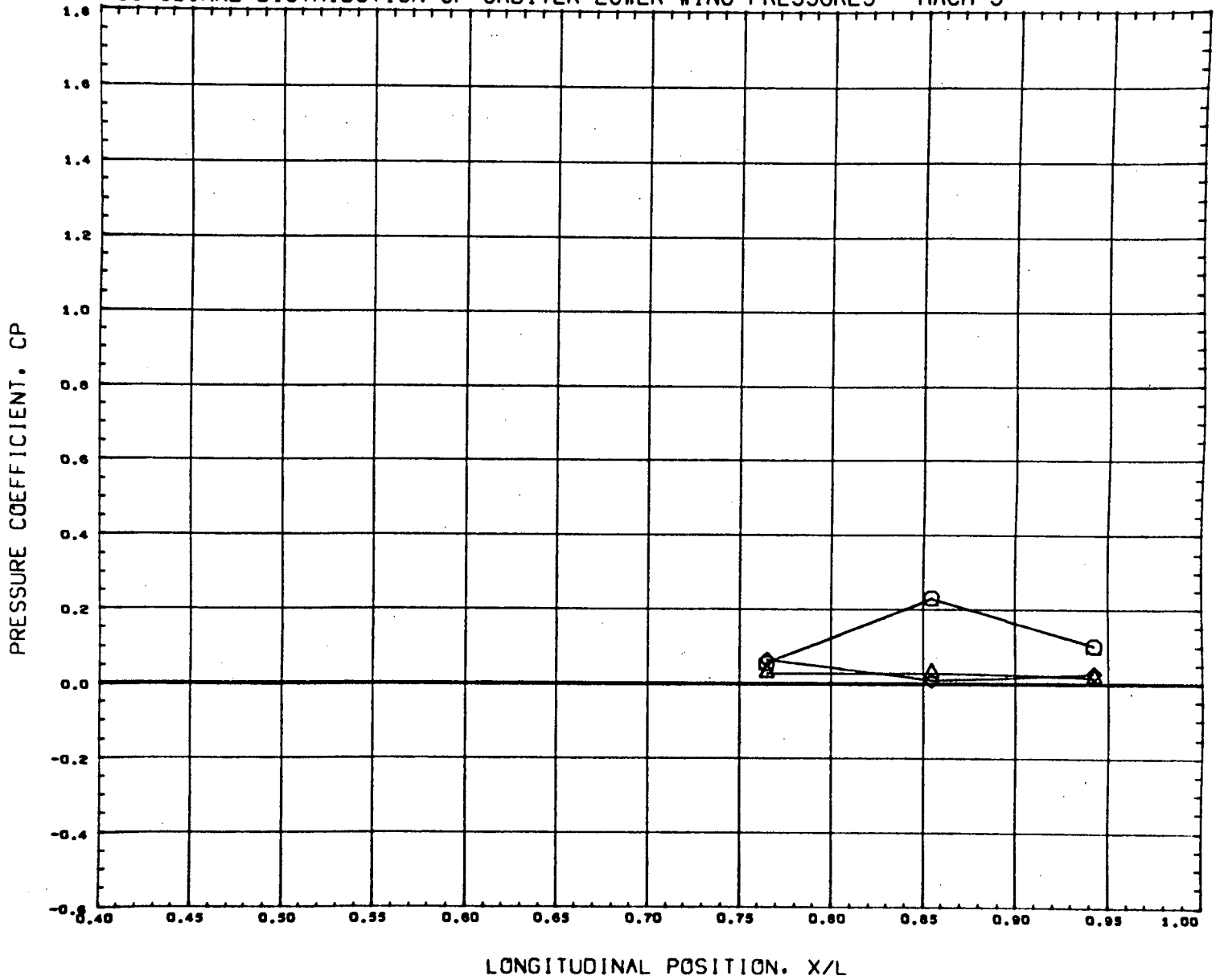
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.569	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.930	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

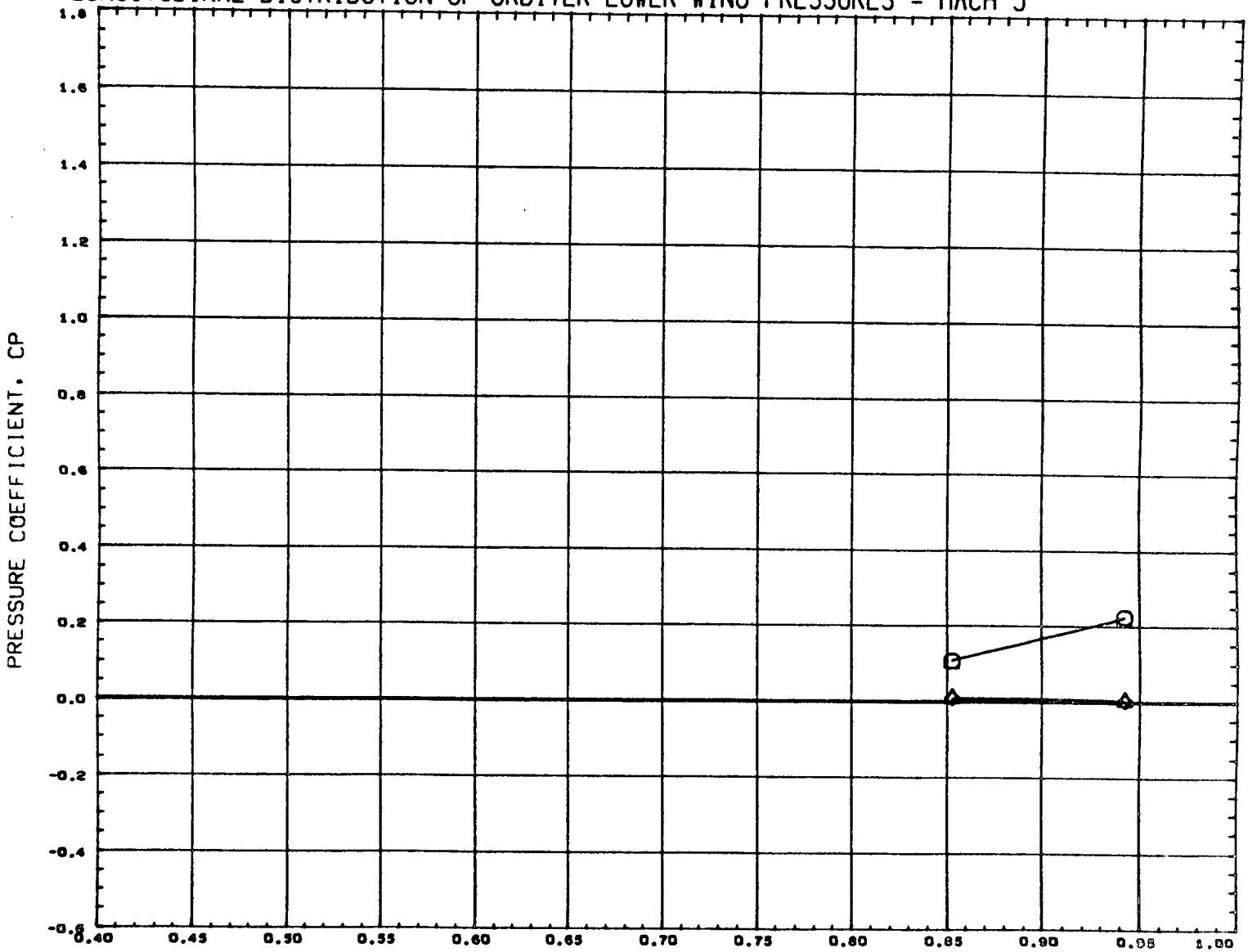
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



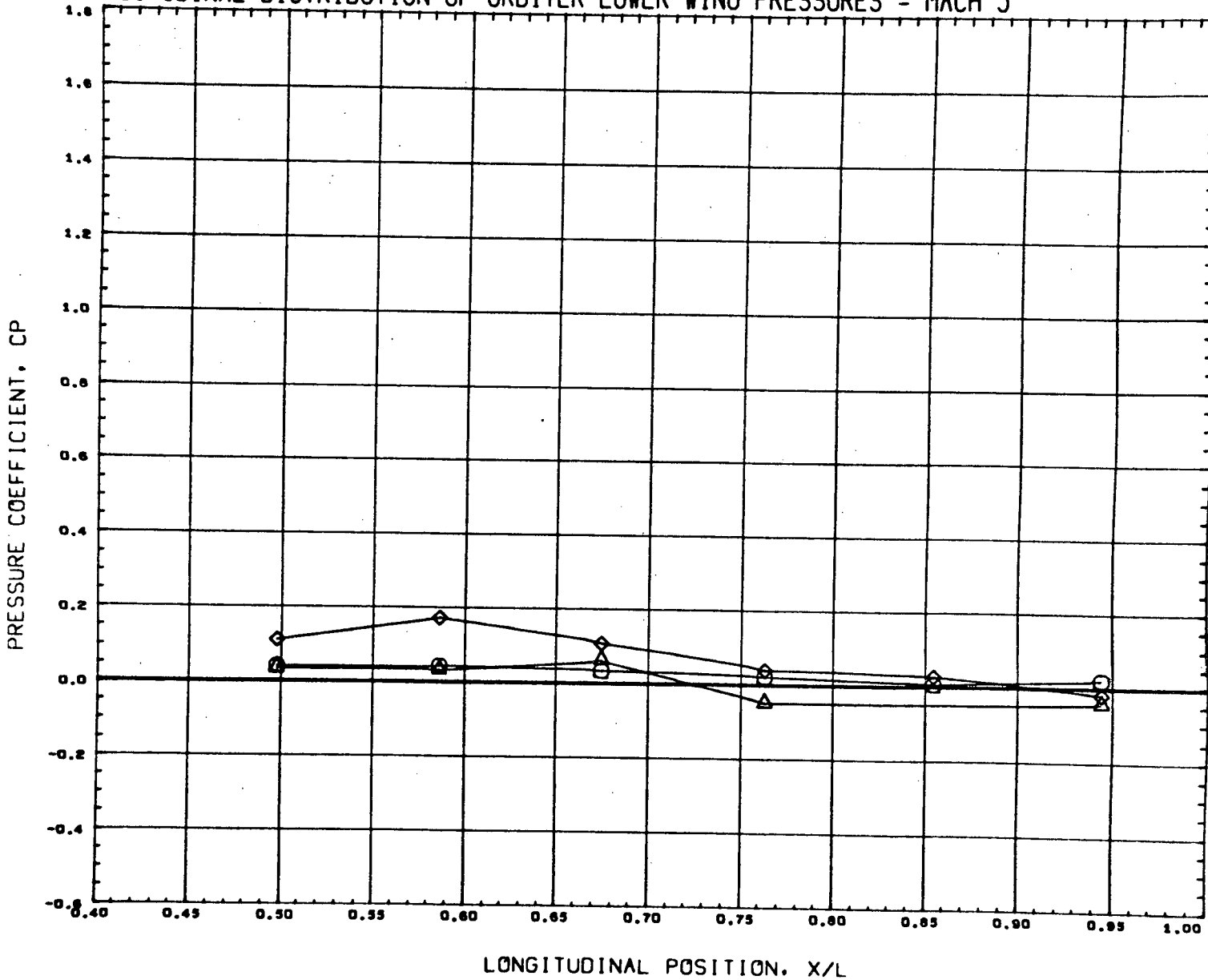
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.735	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.930	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.131
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.930	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

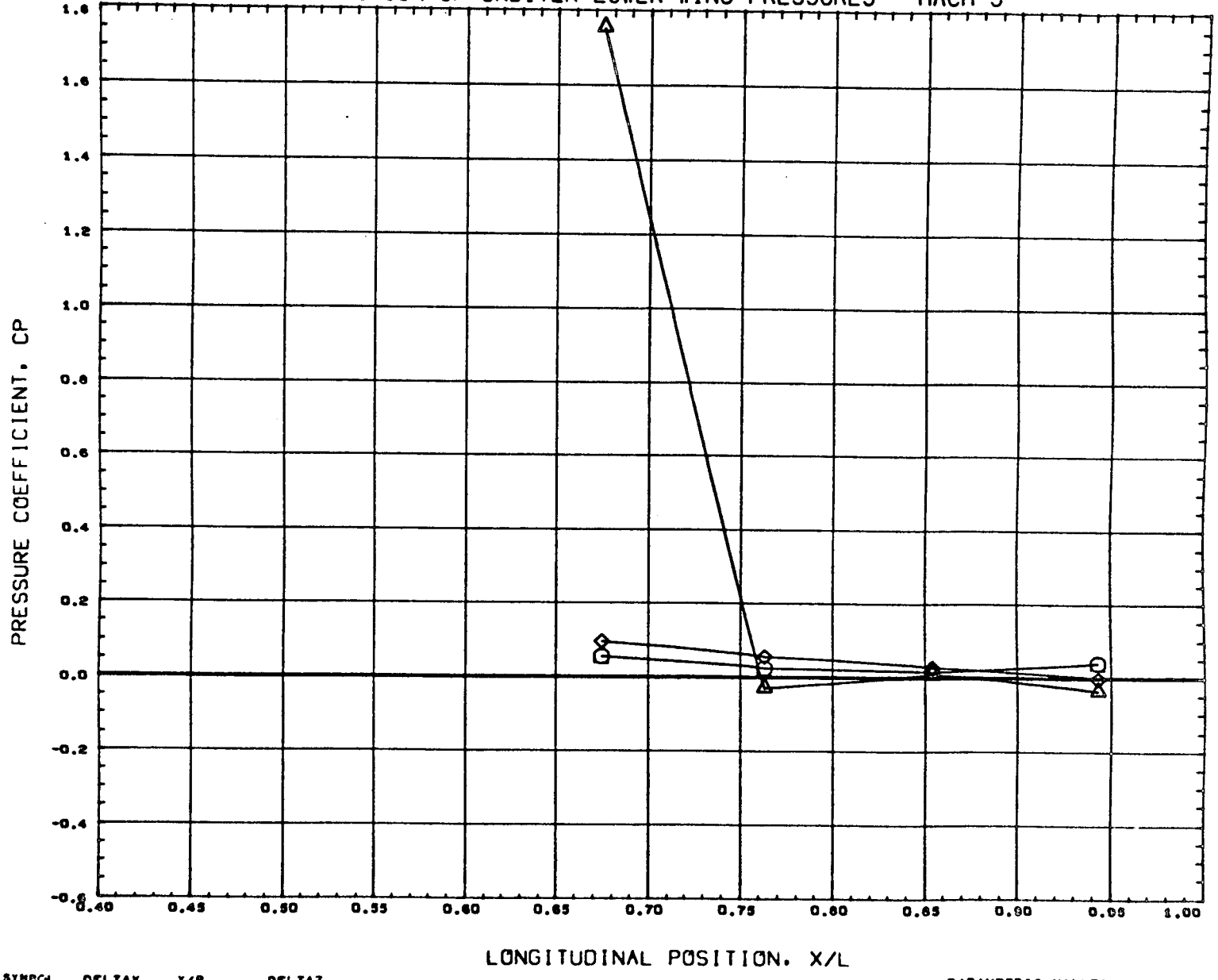
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

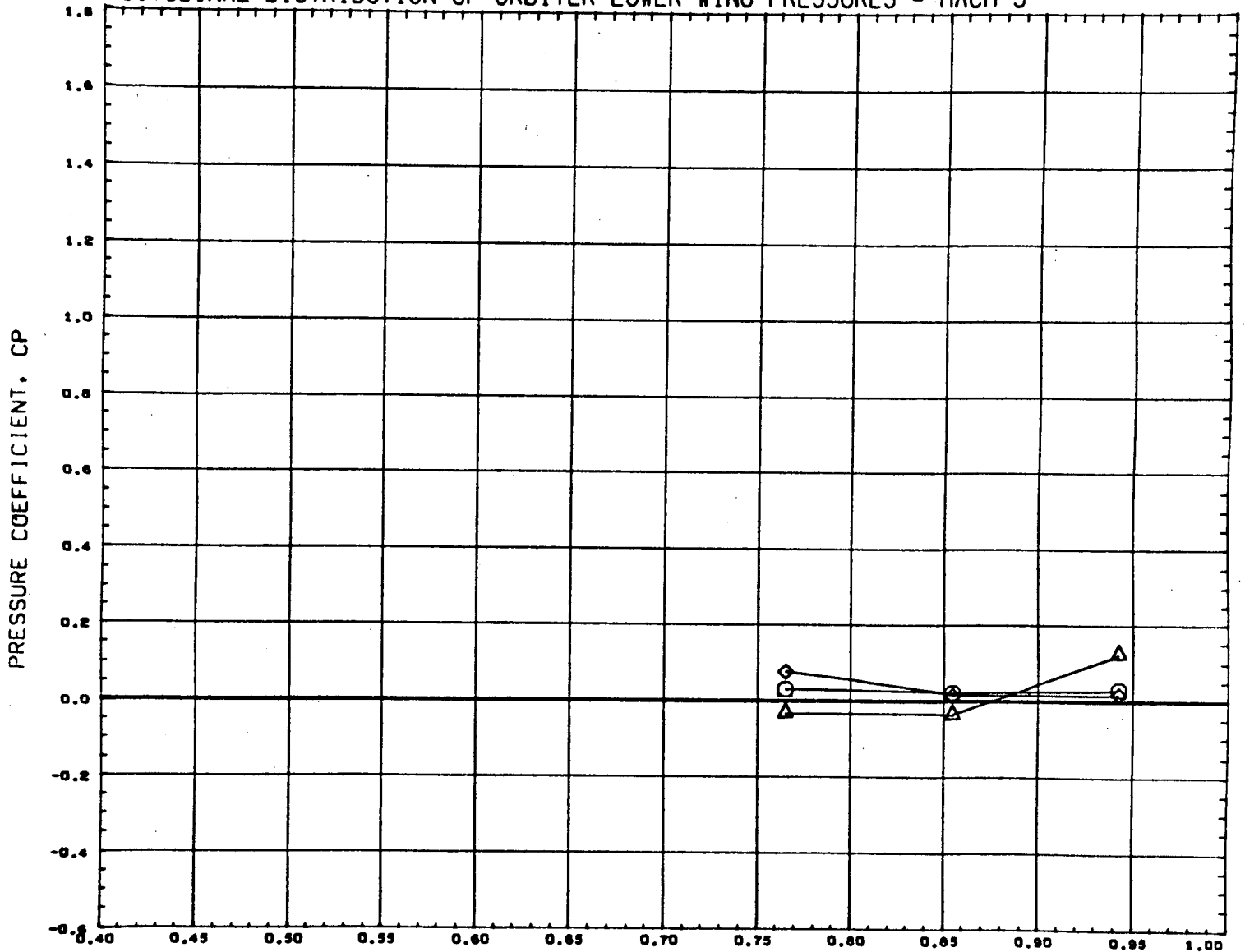


SYMBOL	DELTA X	Y/B	DELTA Z
△	0.144	0.399	0.151
○	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.930	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.569	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.930	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

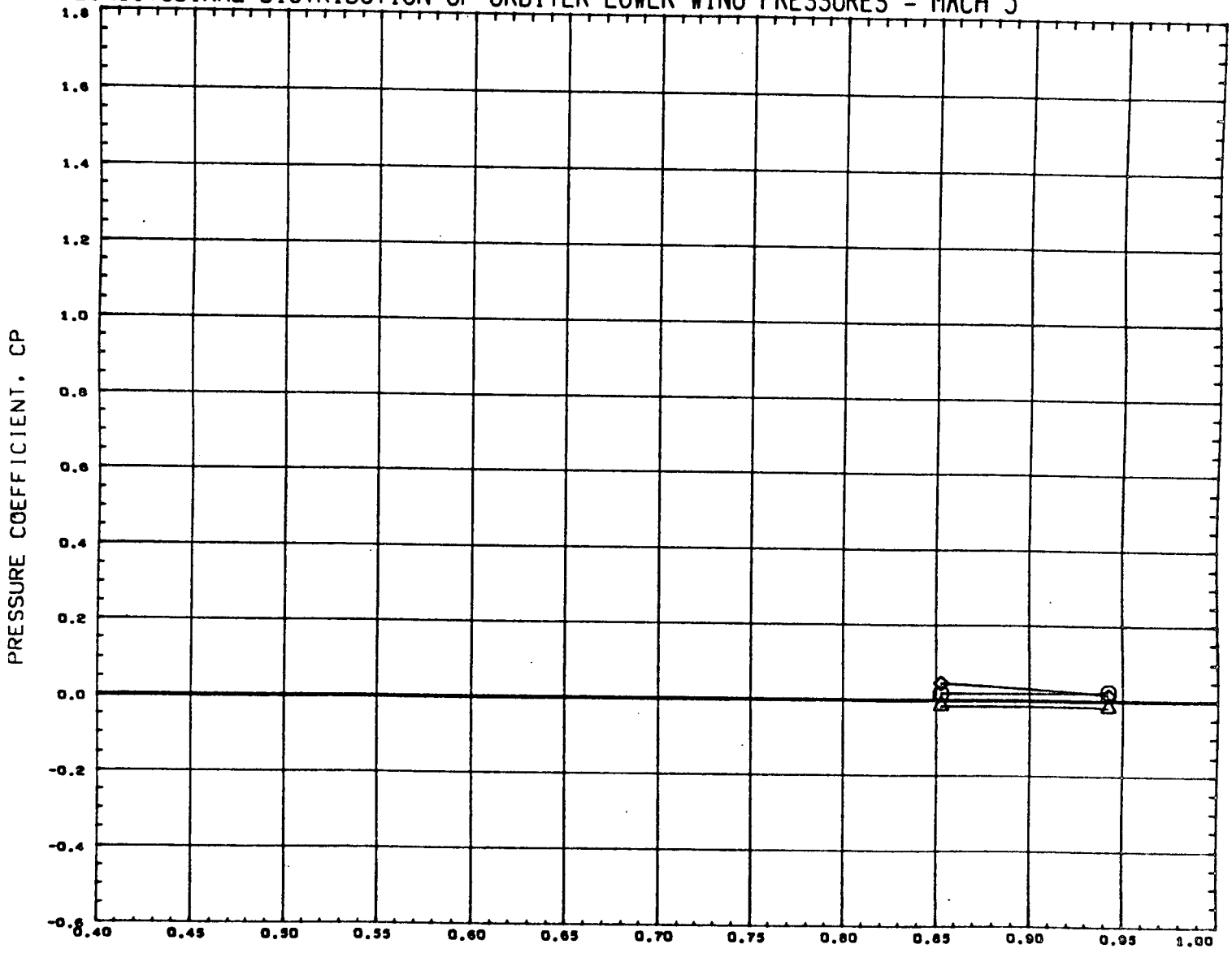
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



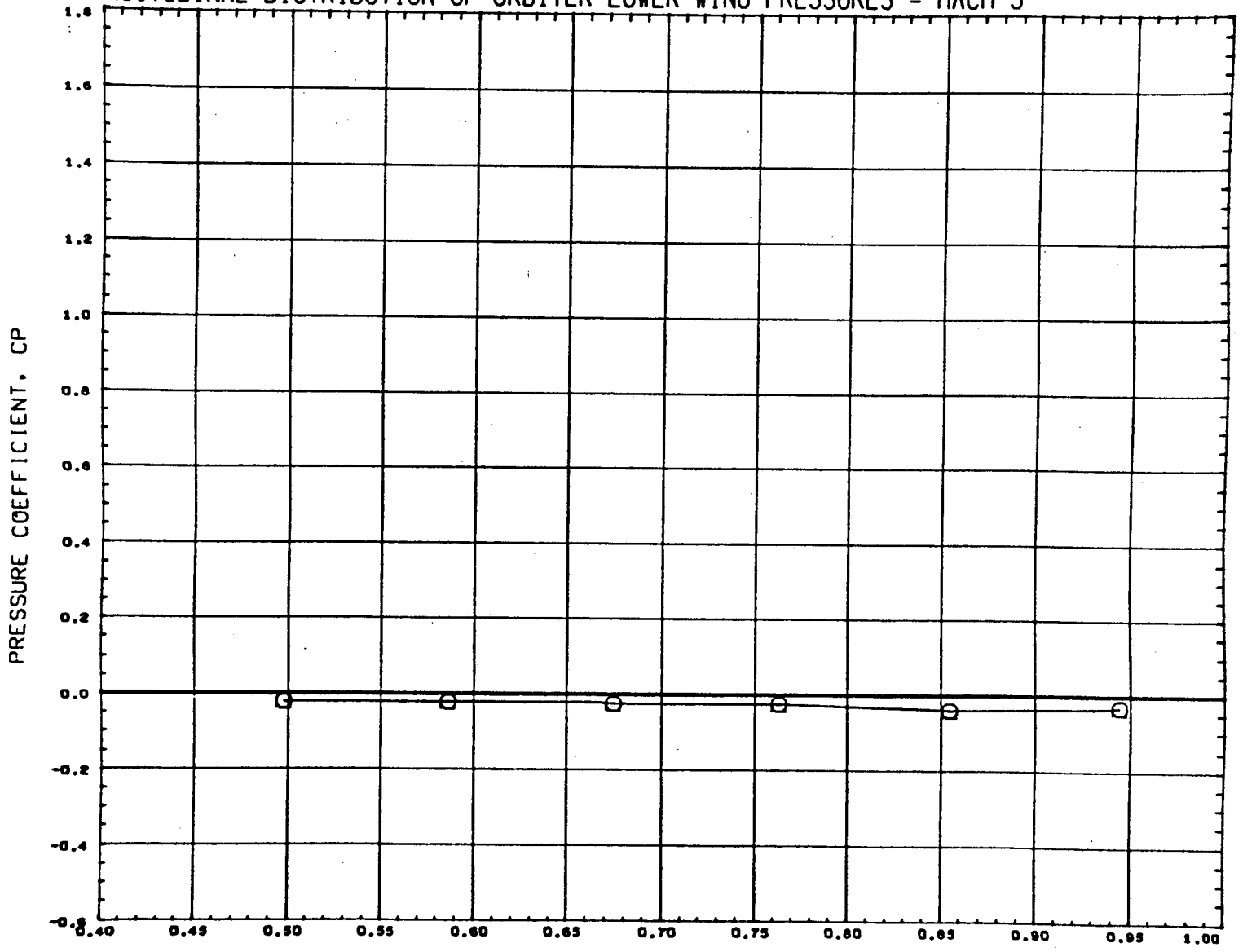
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
△	0.144	0.736	0.151
◇	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.930	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.906

PARAMETRIC VALUES			
ALPHA B	- 4.930	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

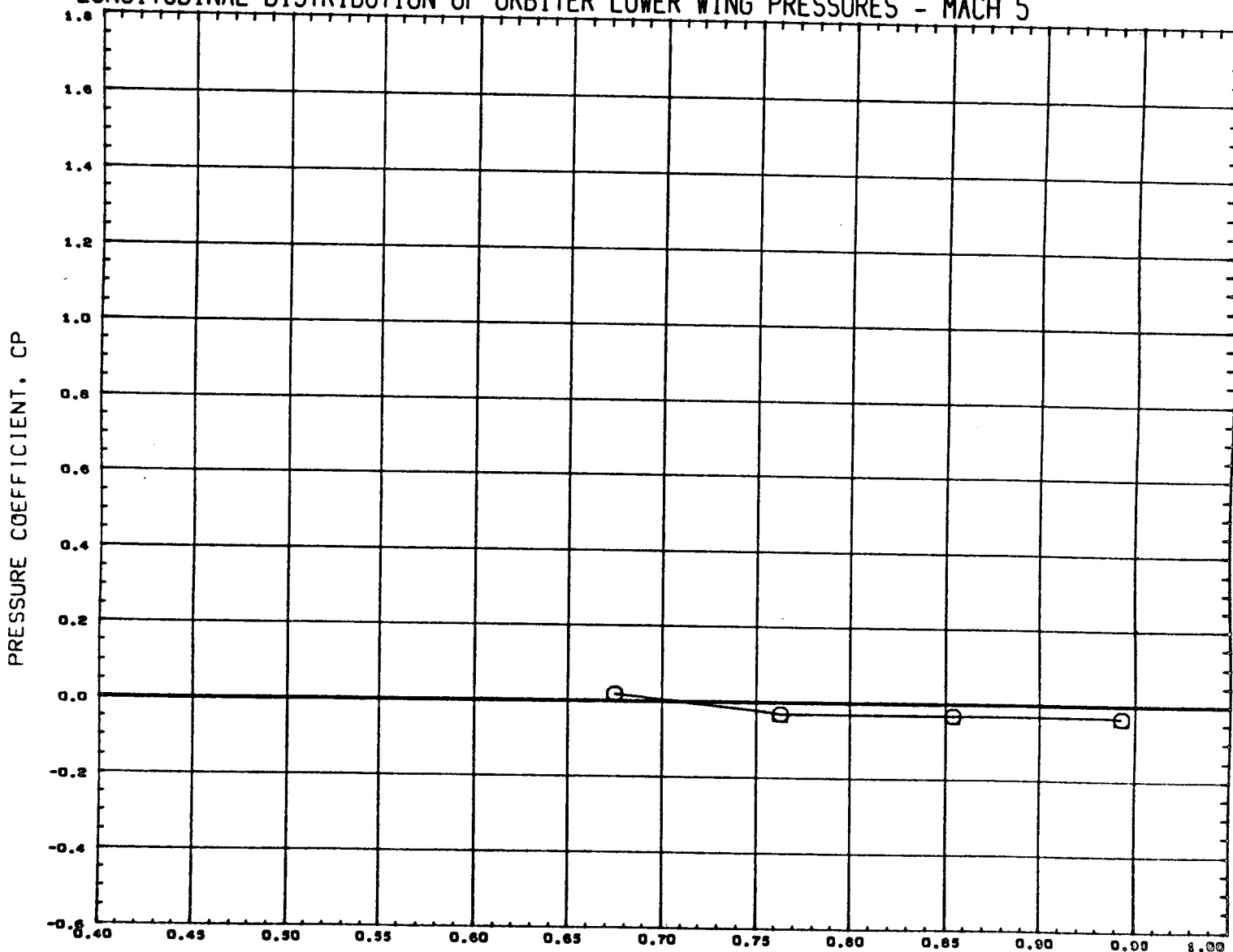
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.930	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

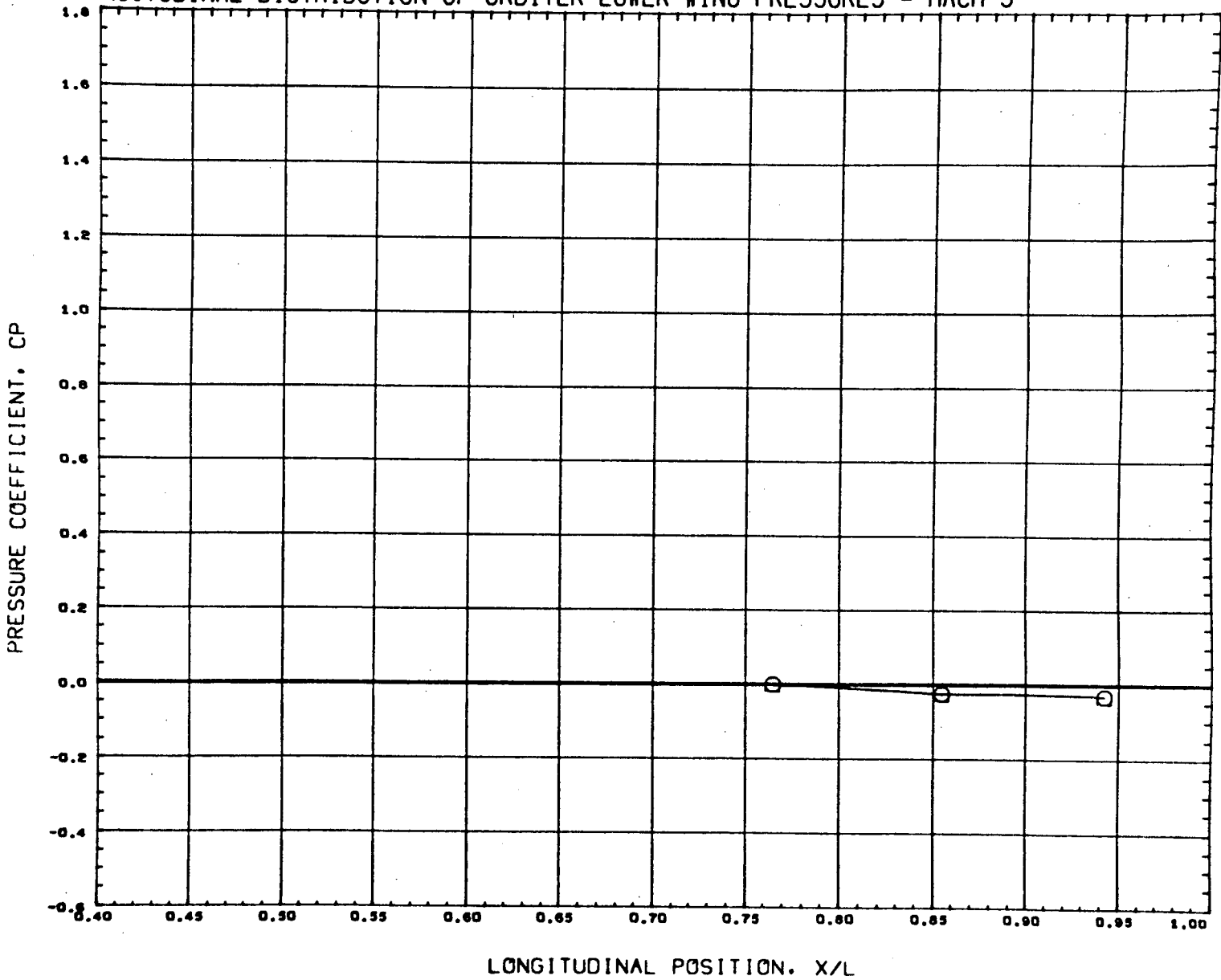
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL \circ DELTAX 0.520 Y/B 0.569 DELTAZ 0.908

PARAMETRIC VALUES
 ALPHAB - 4.930 MACH 4.970
 ALPHA1 0.000 ORBPOW 0.000
 BSTPOW 0.000

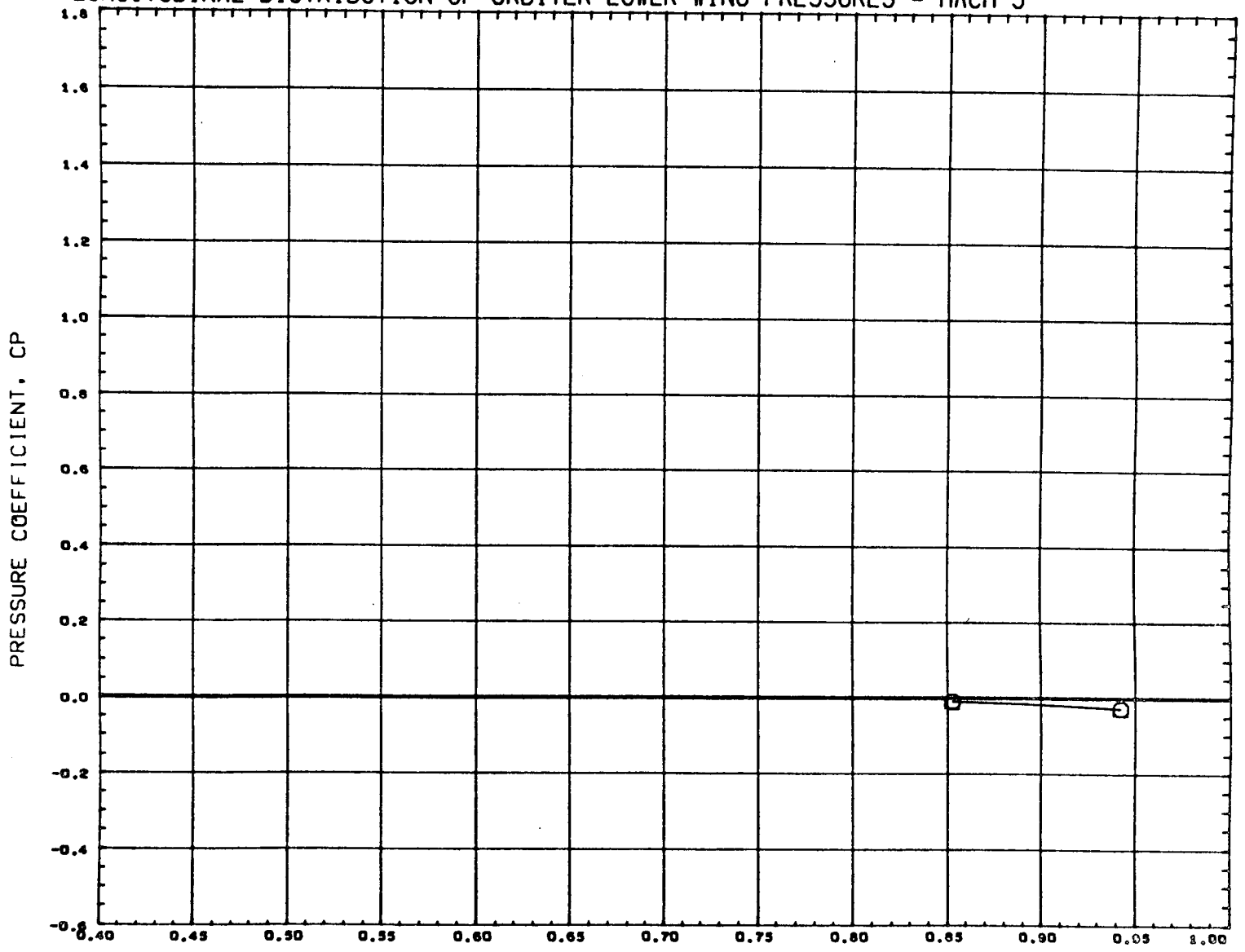
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.529	0.738	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.930	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

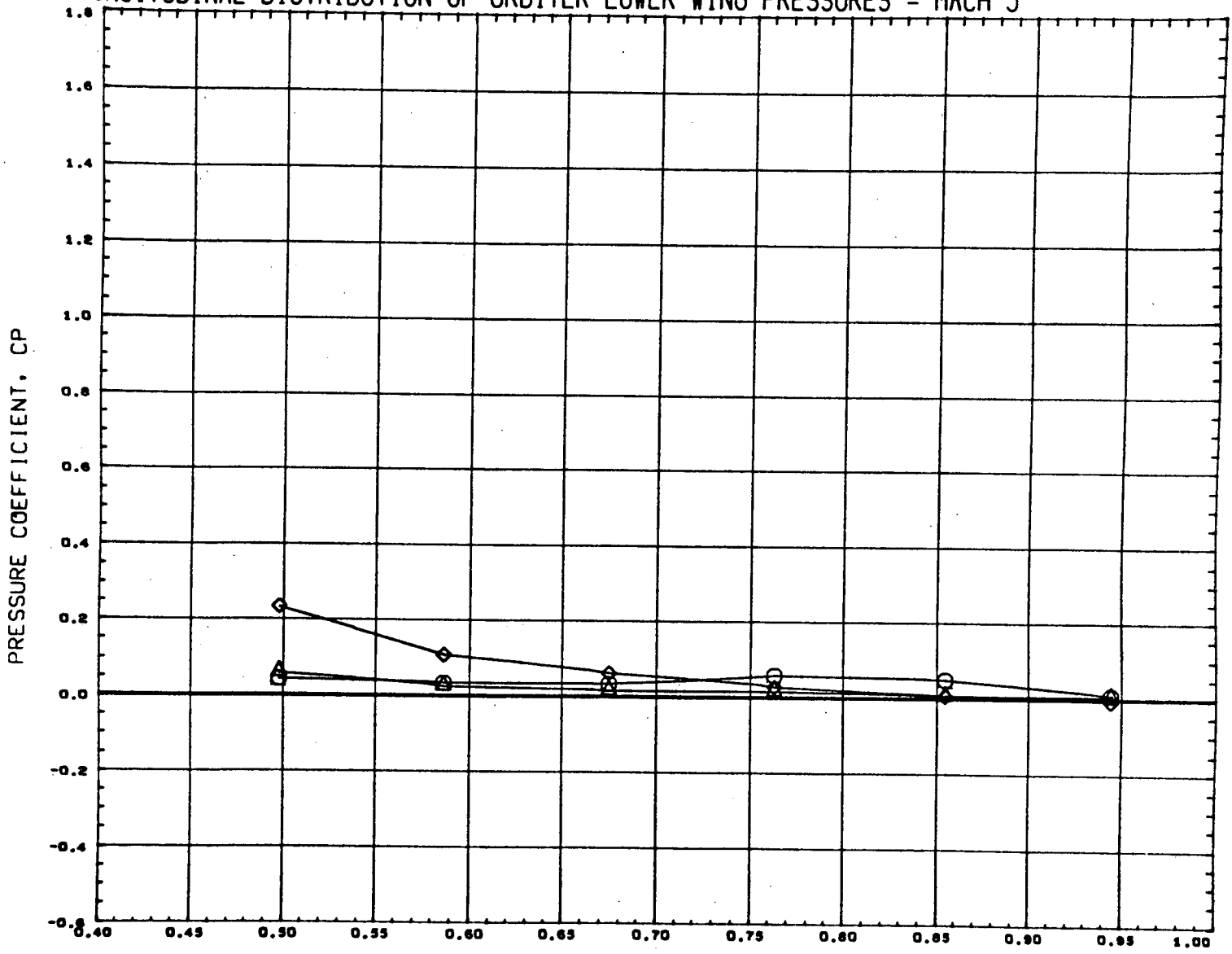
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8572•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

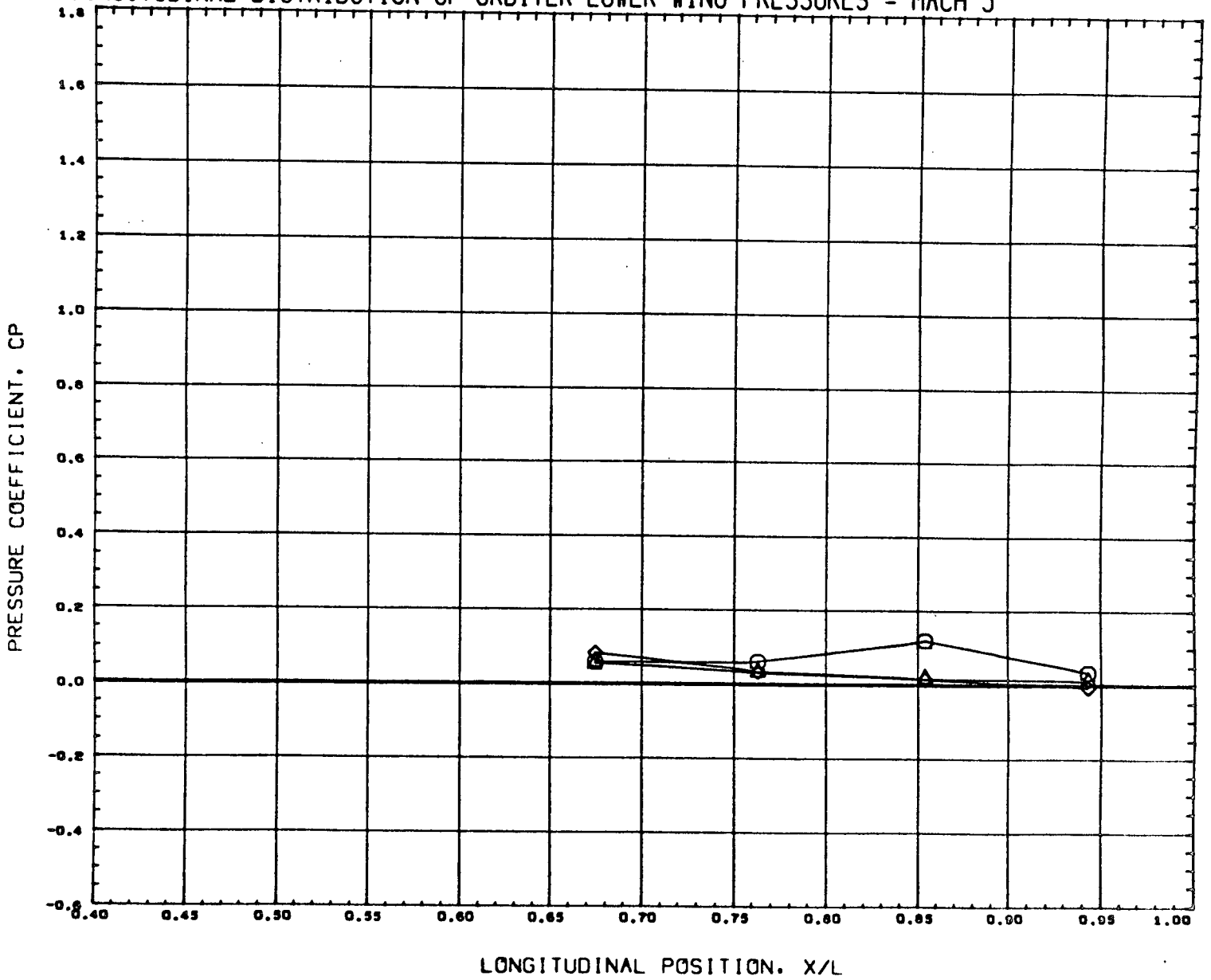
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPCW	0.000		

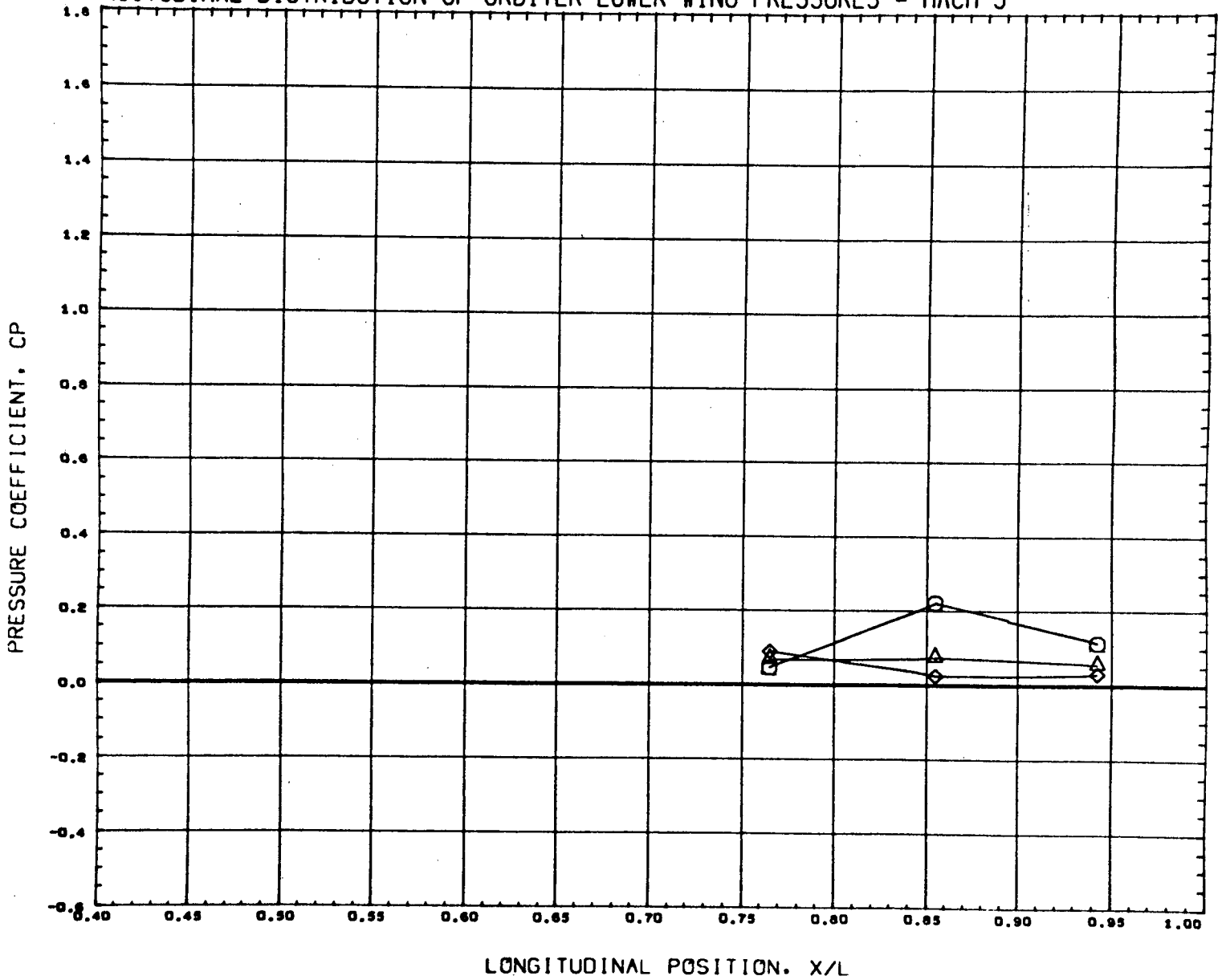
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.566	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

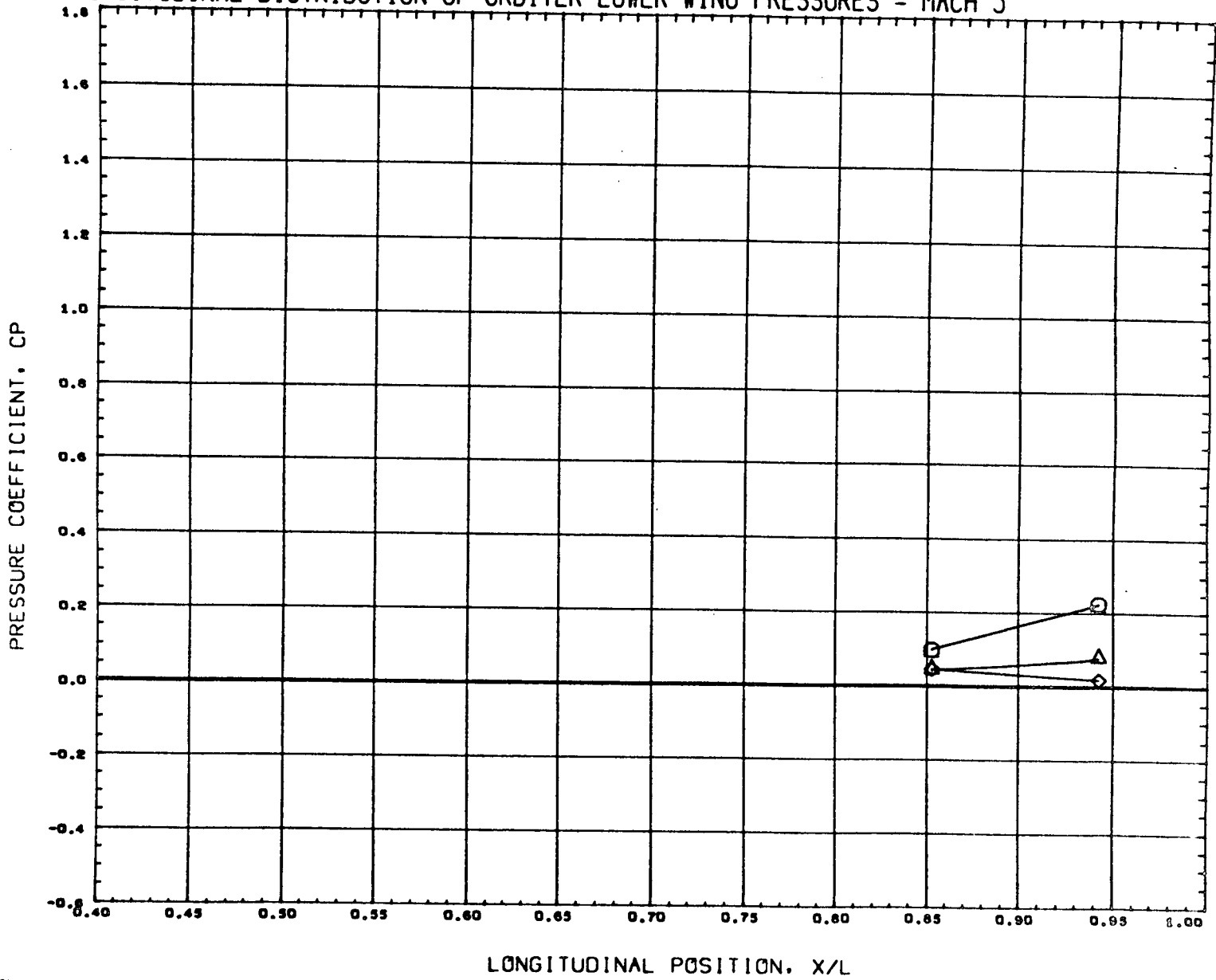
REFERENCE FILE

AEDC VA1163 MOAC ORBITER (LOWER WING)

•HT8573•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.739	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

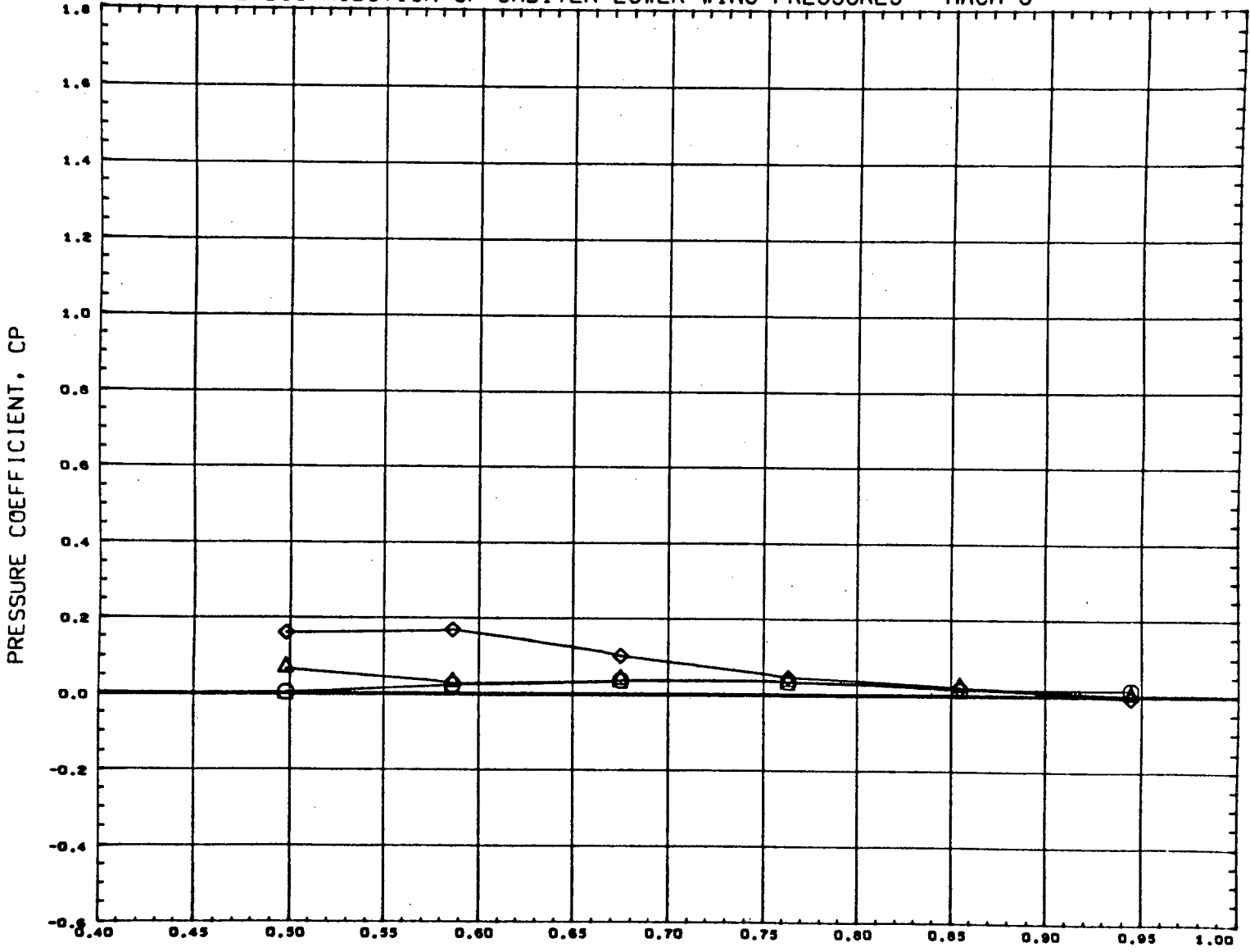
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHA B	0.001	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

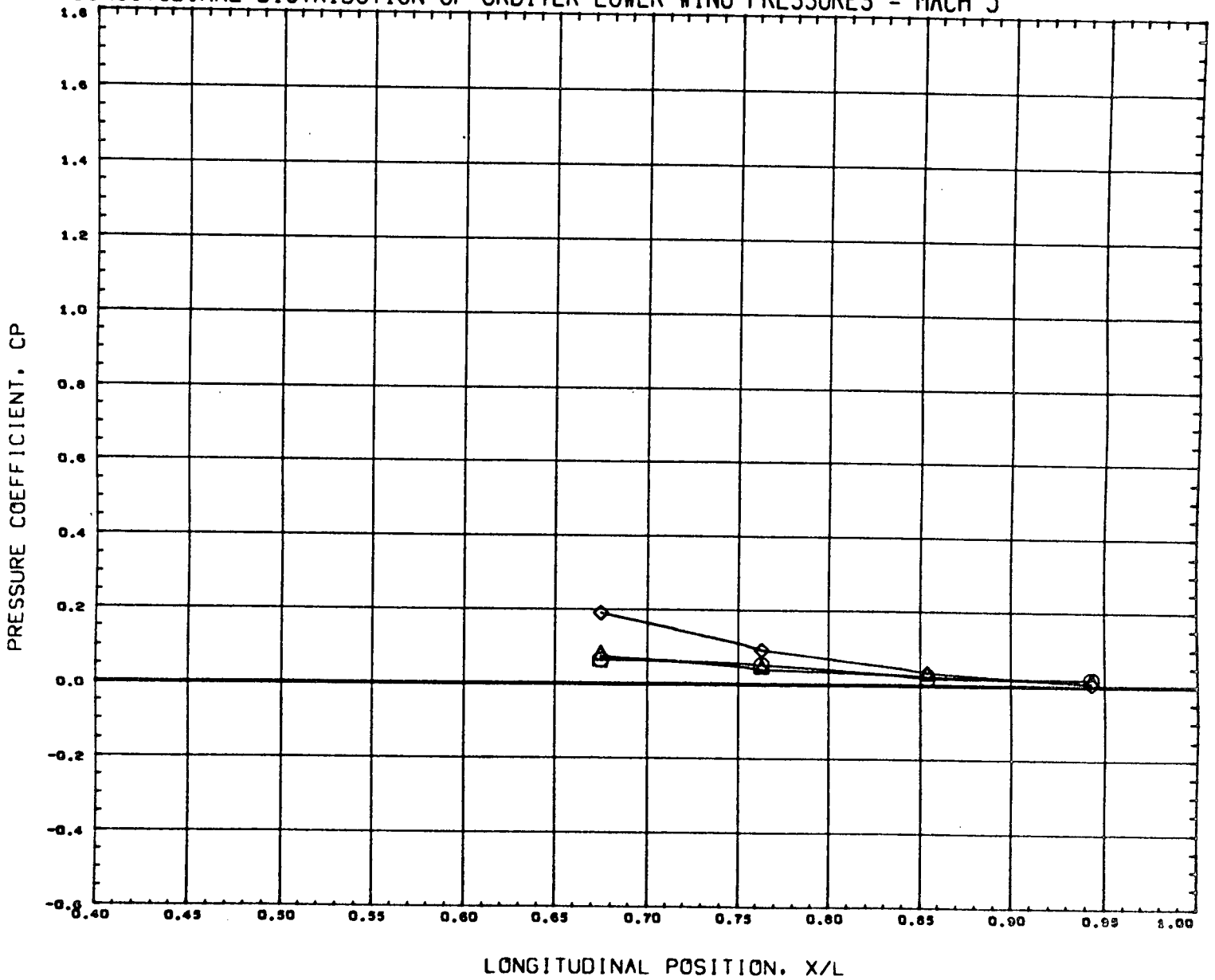
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 845

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

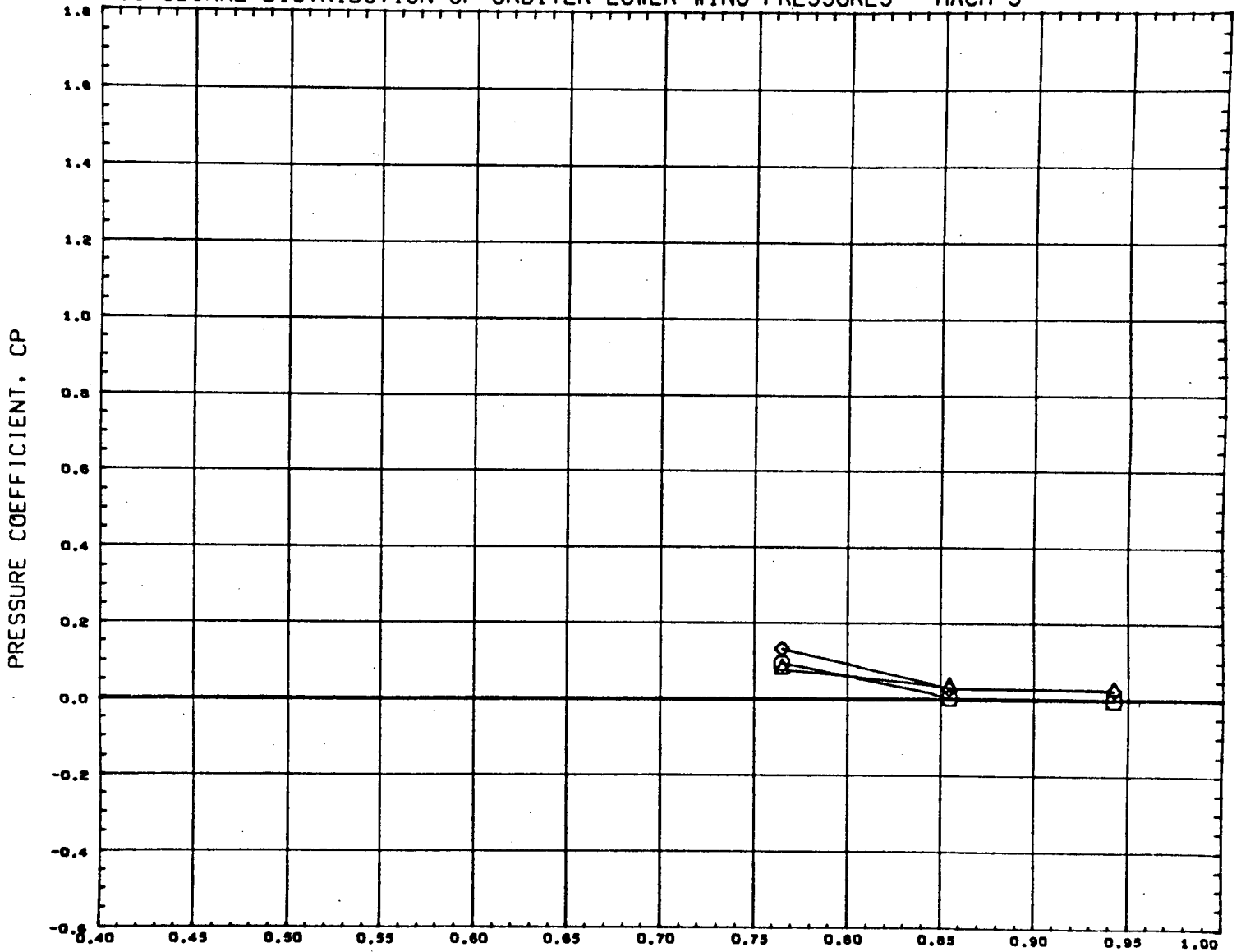
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.368	0.131
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

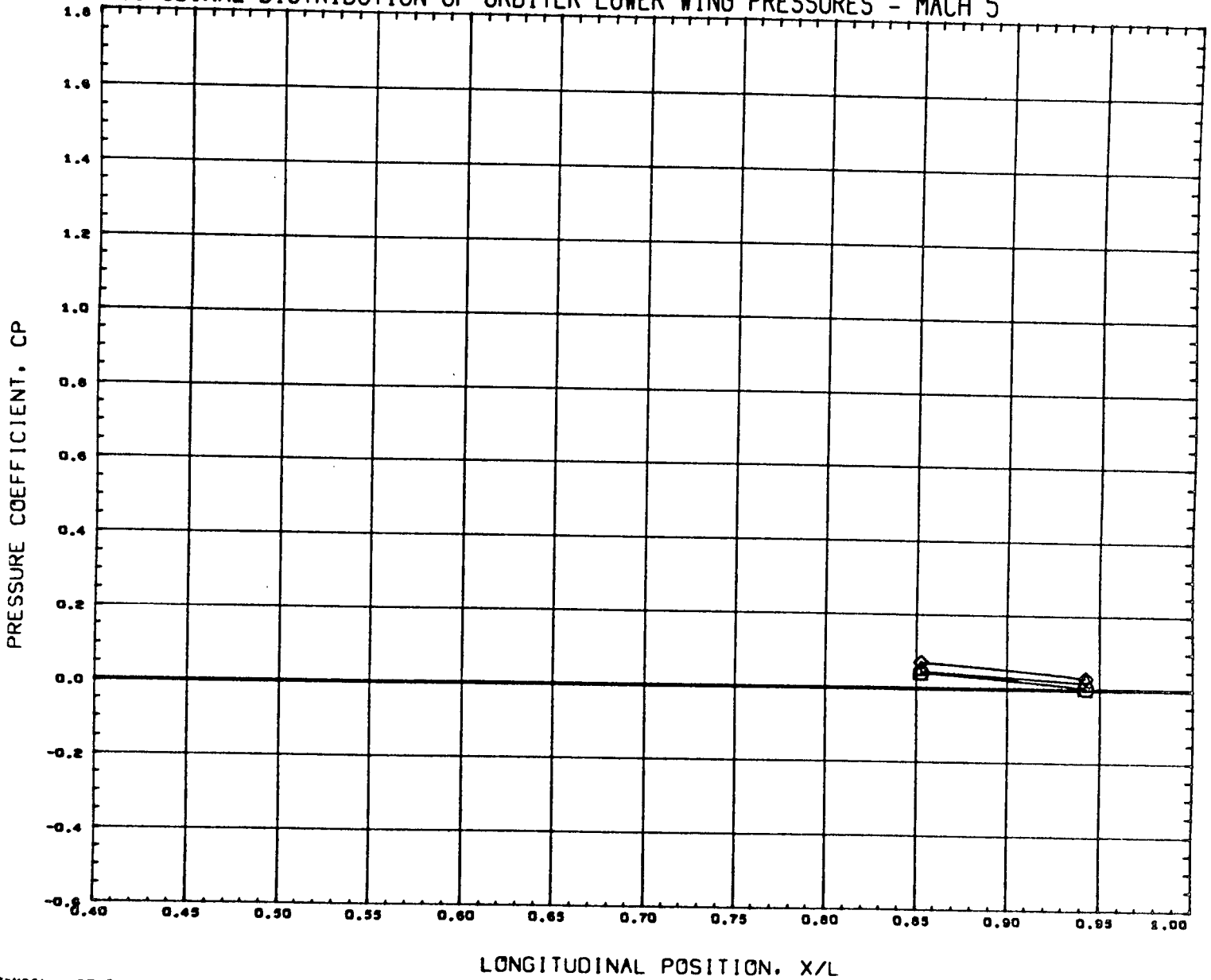
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

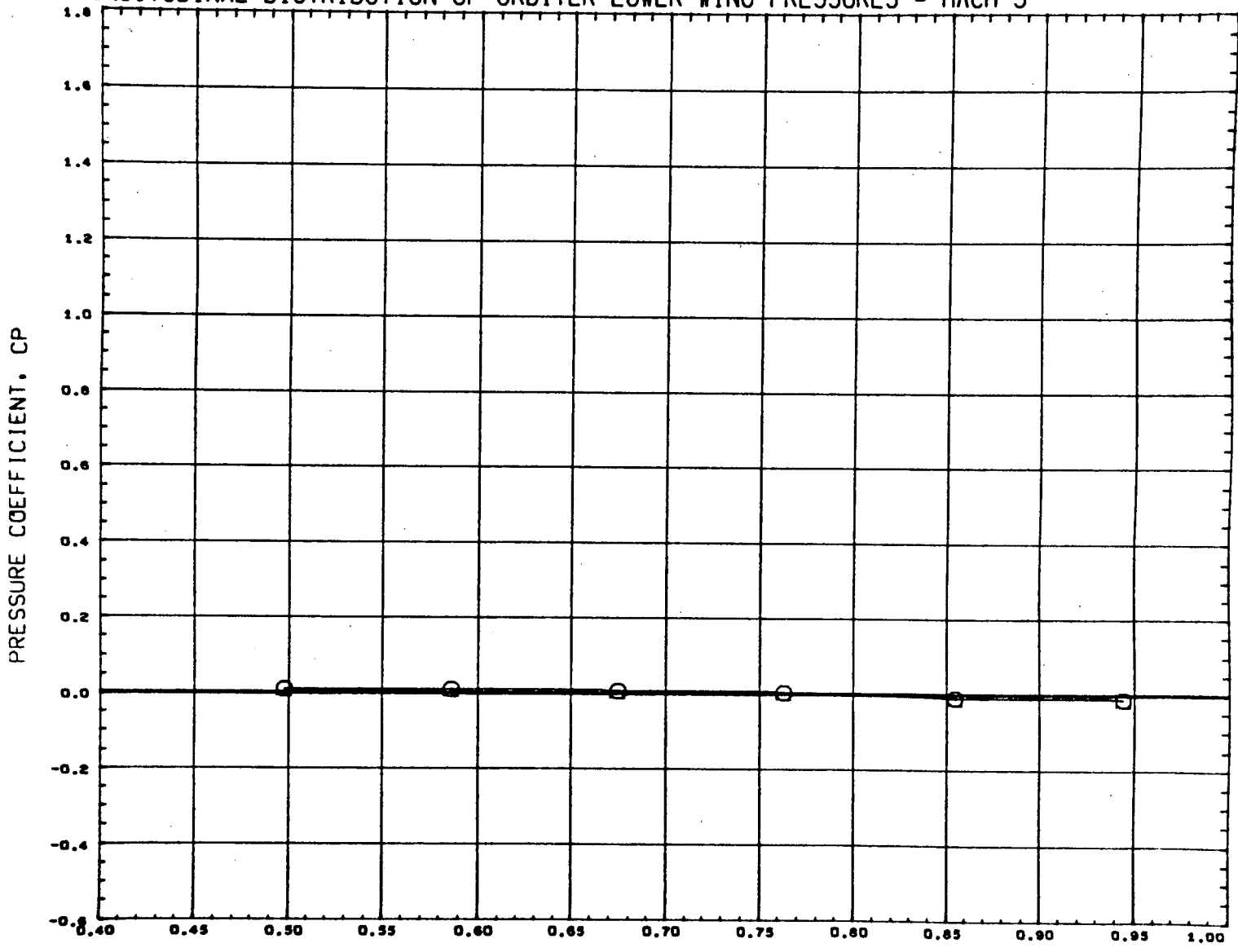


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.738	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.230	0.908

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

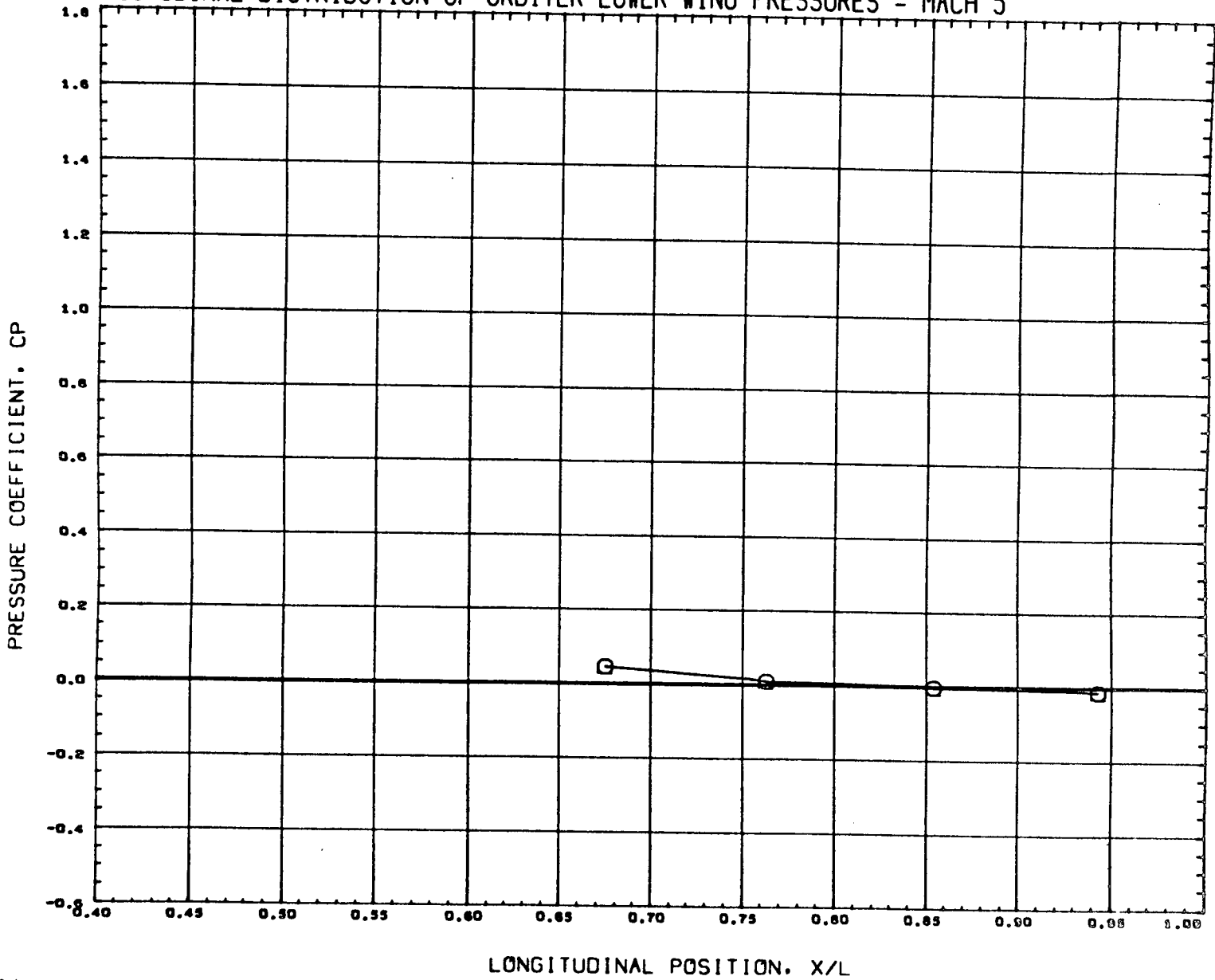
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.520 0.399 0.908

PARAMETRIC VALUES
 ALPHAB 0.001 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

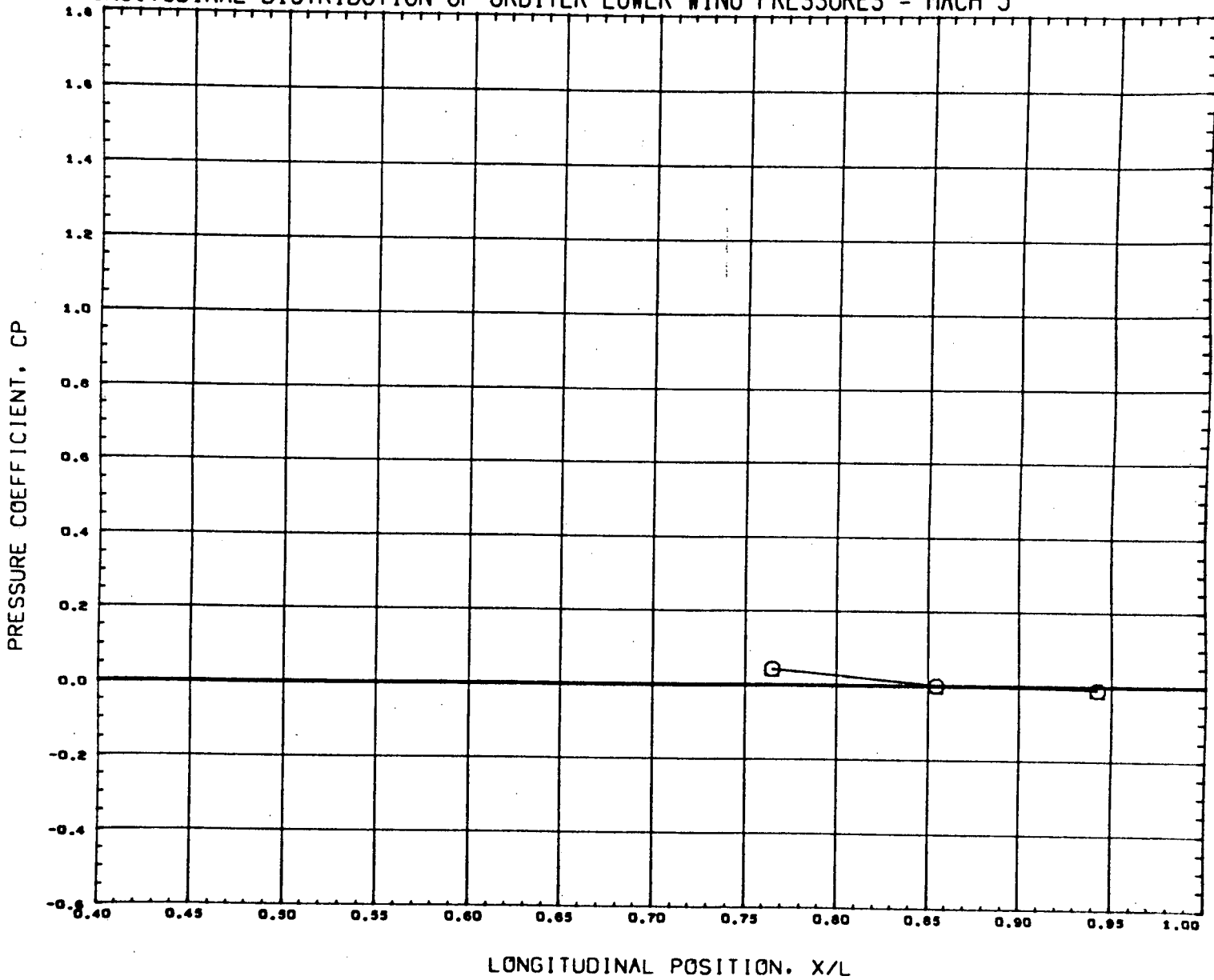
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	T/B	DELTA Z
○	0.520	0.369	0.906

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

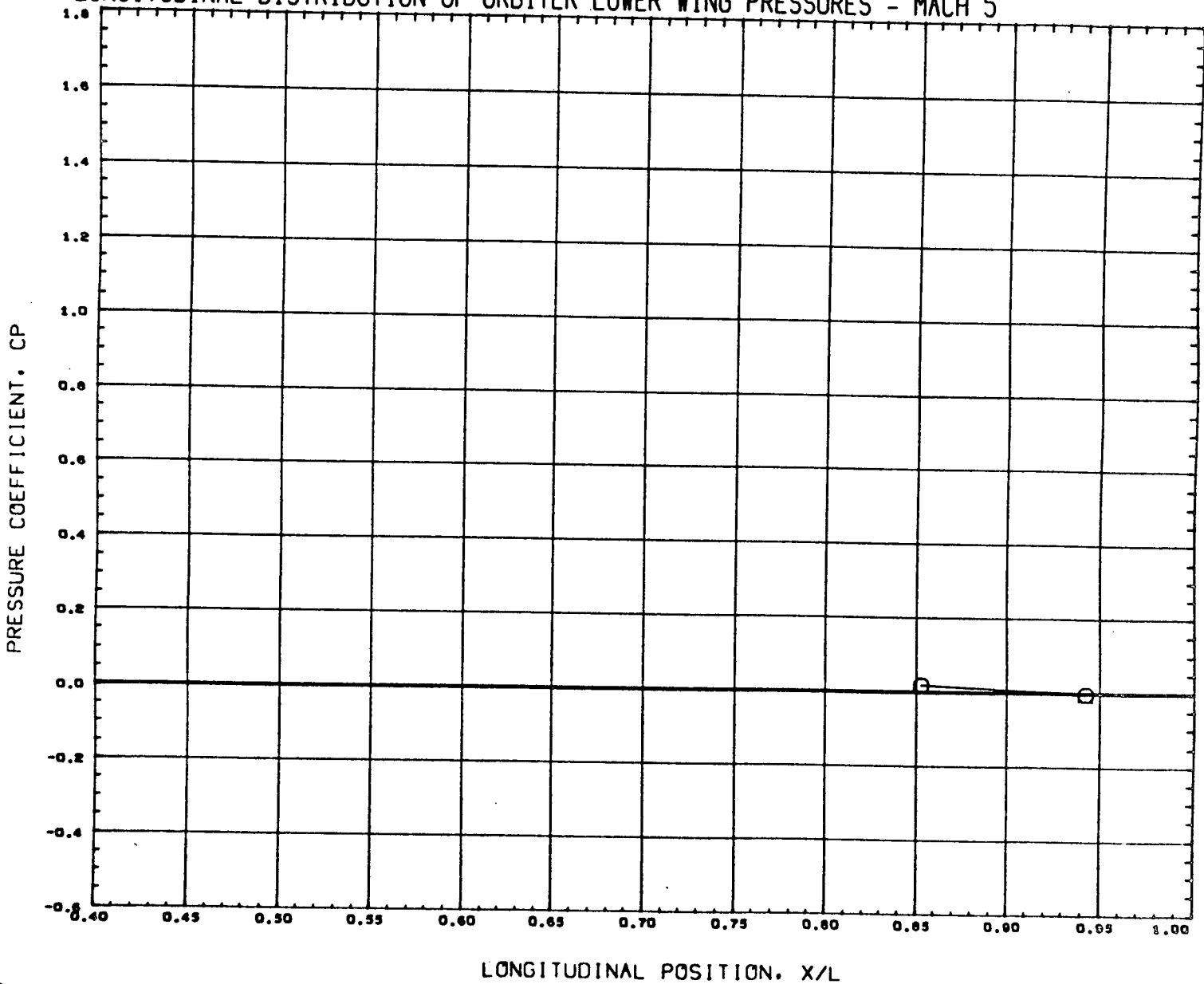
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 851

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.736	0.906

PARAMETRIC VALUES			
ALPHA B	0.001	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

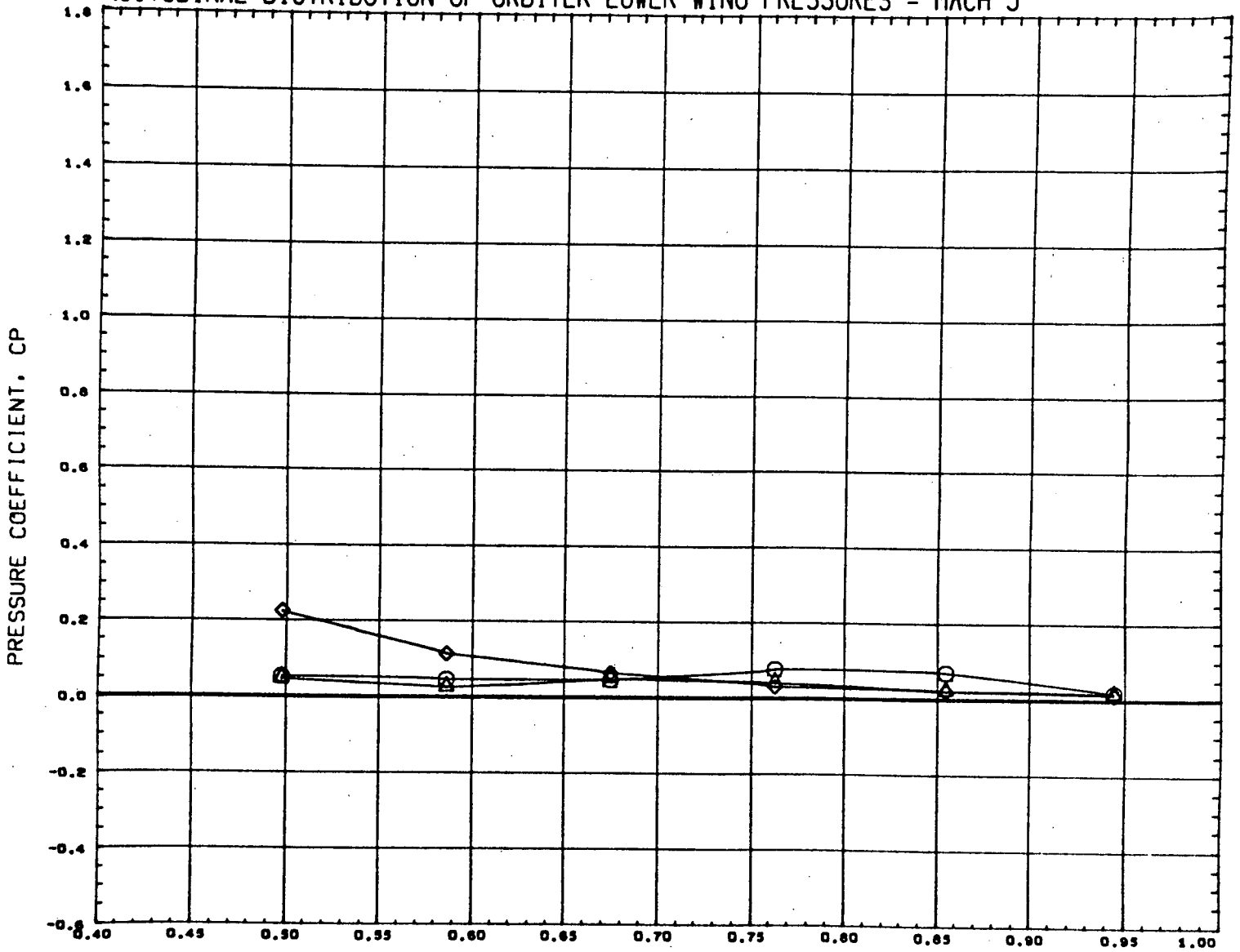
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8573•

PAGE 852

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

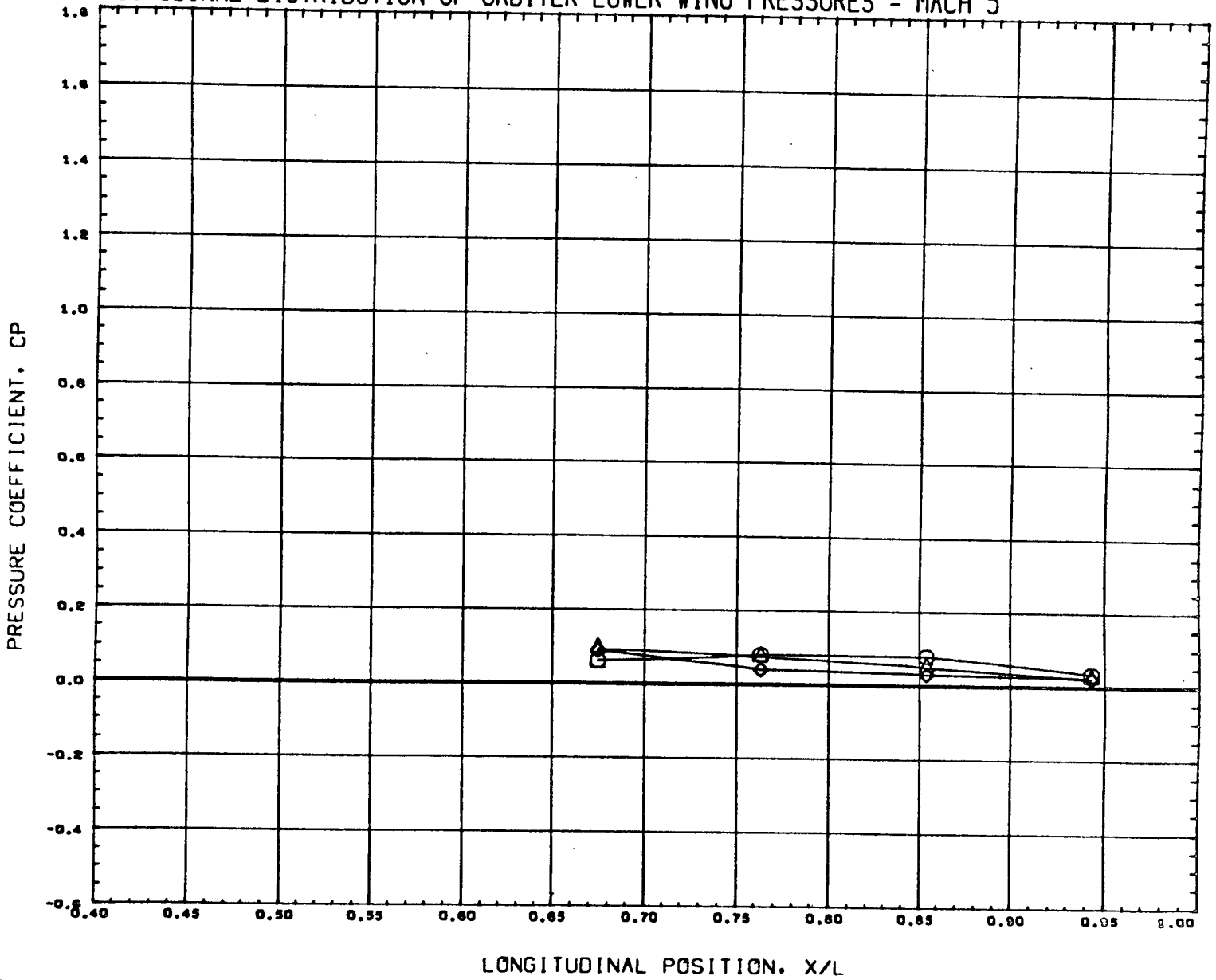
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
△	0.144	0.399	0.120
○	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

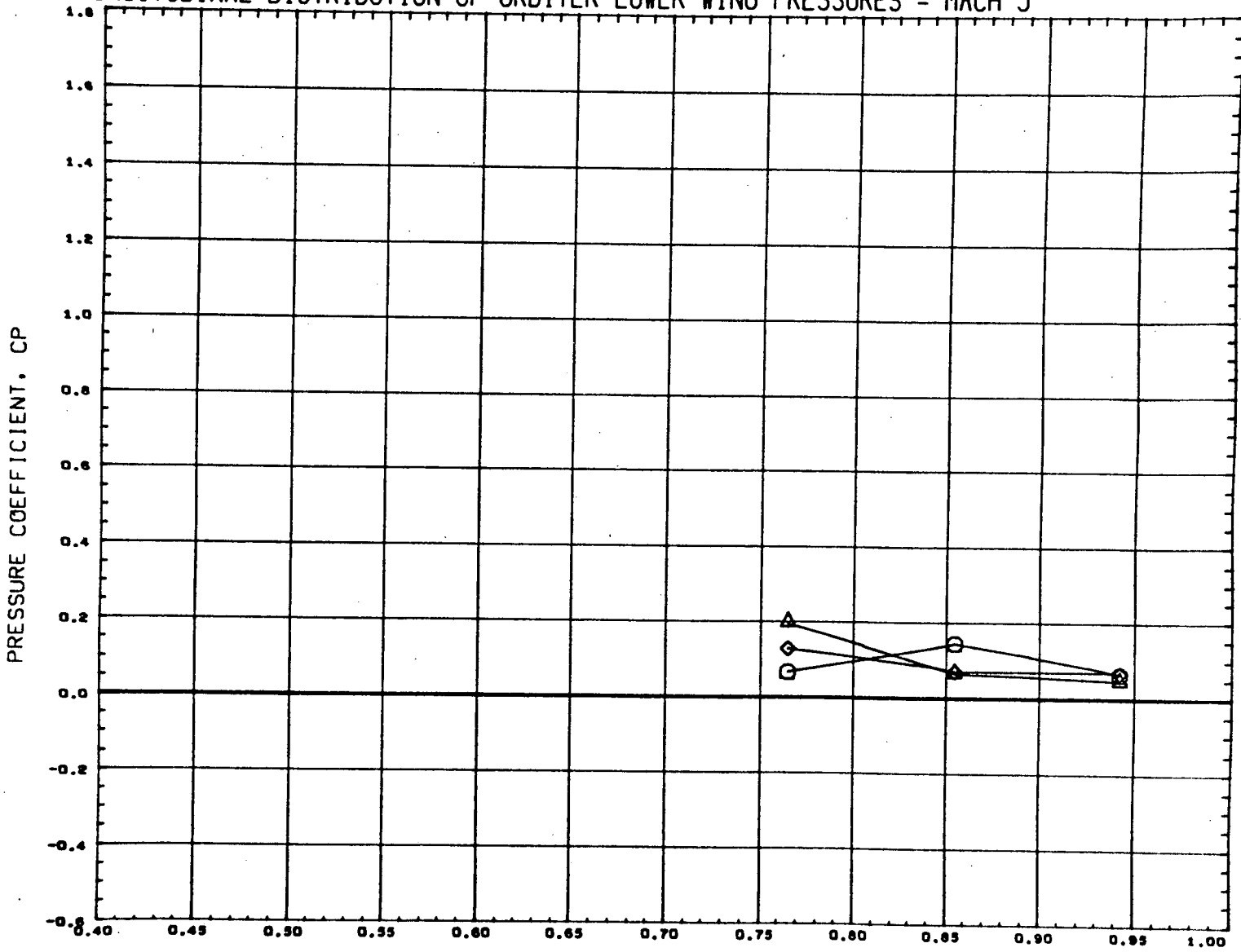
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.569	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	4.994	MACH 4.970
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

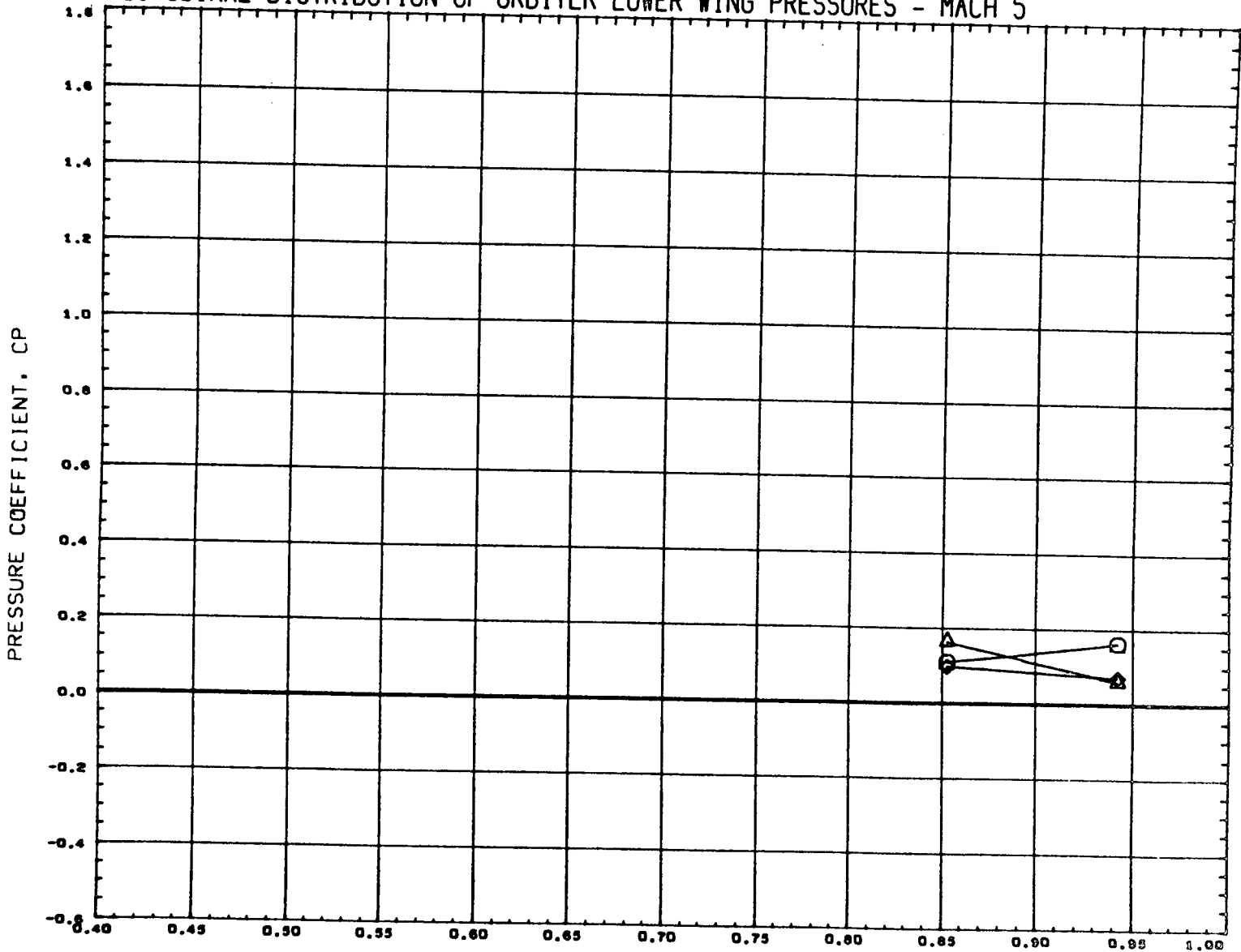
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

PAGE 855

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.738	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

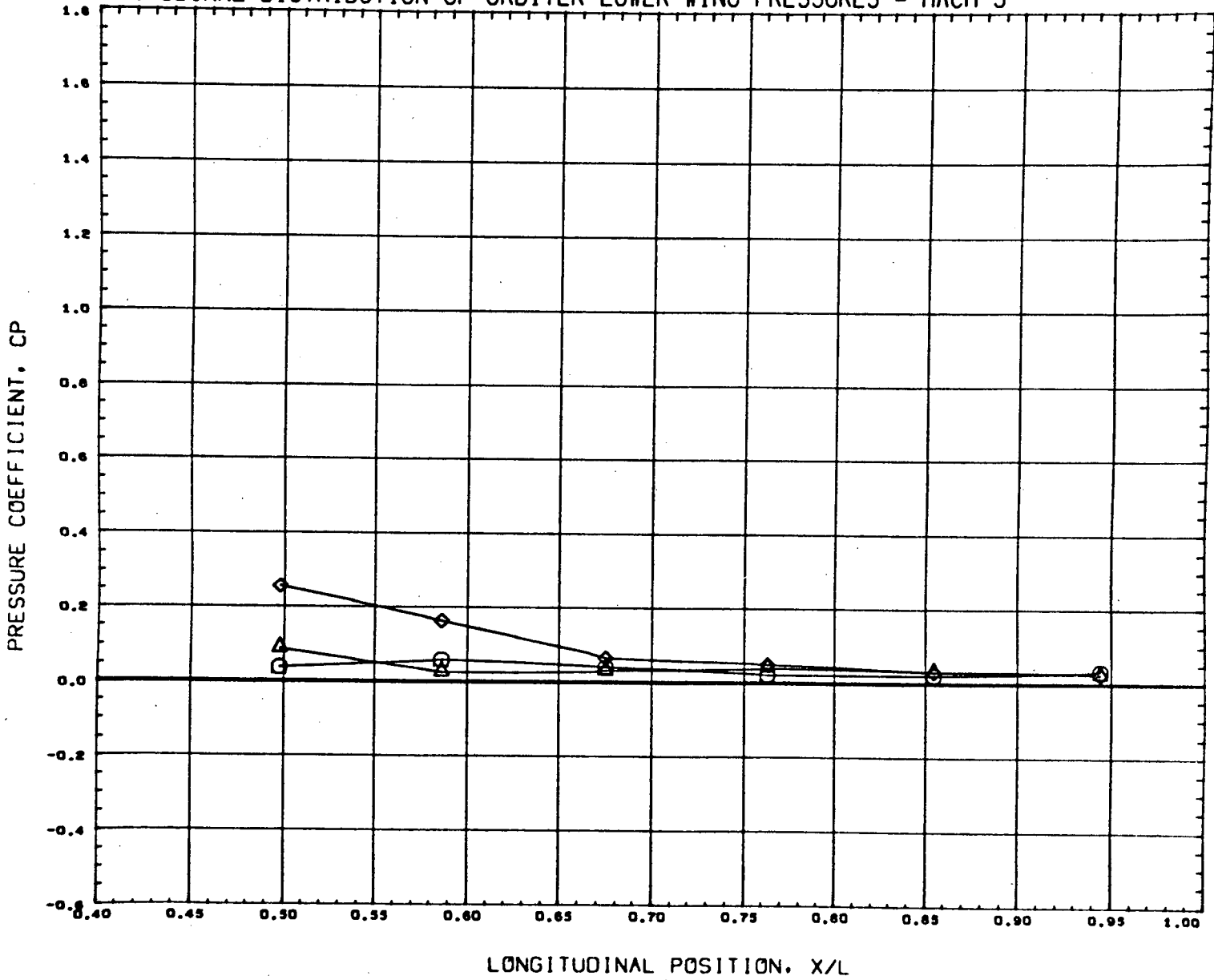
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

PAGE 856

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

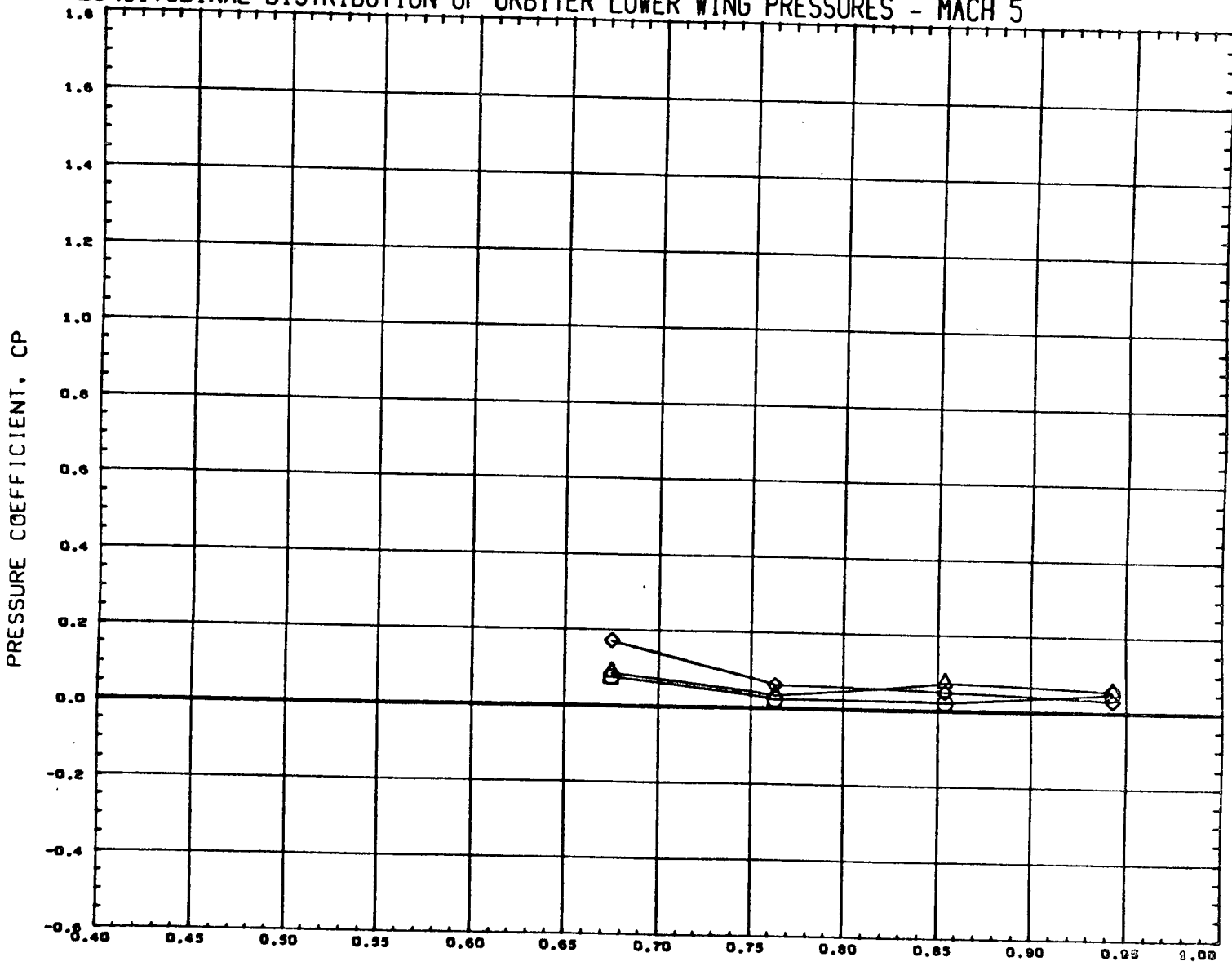
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



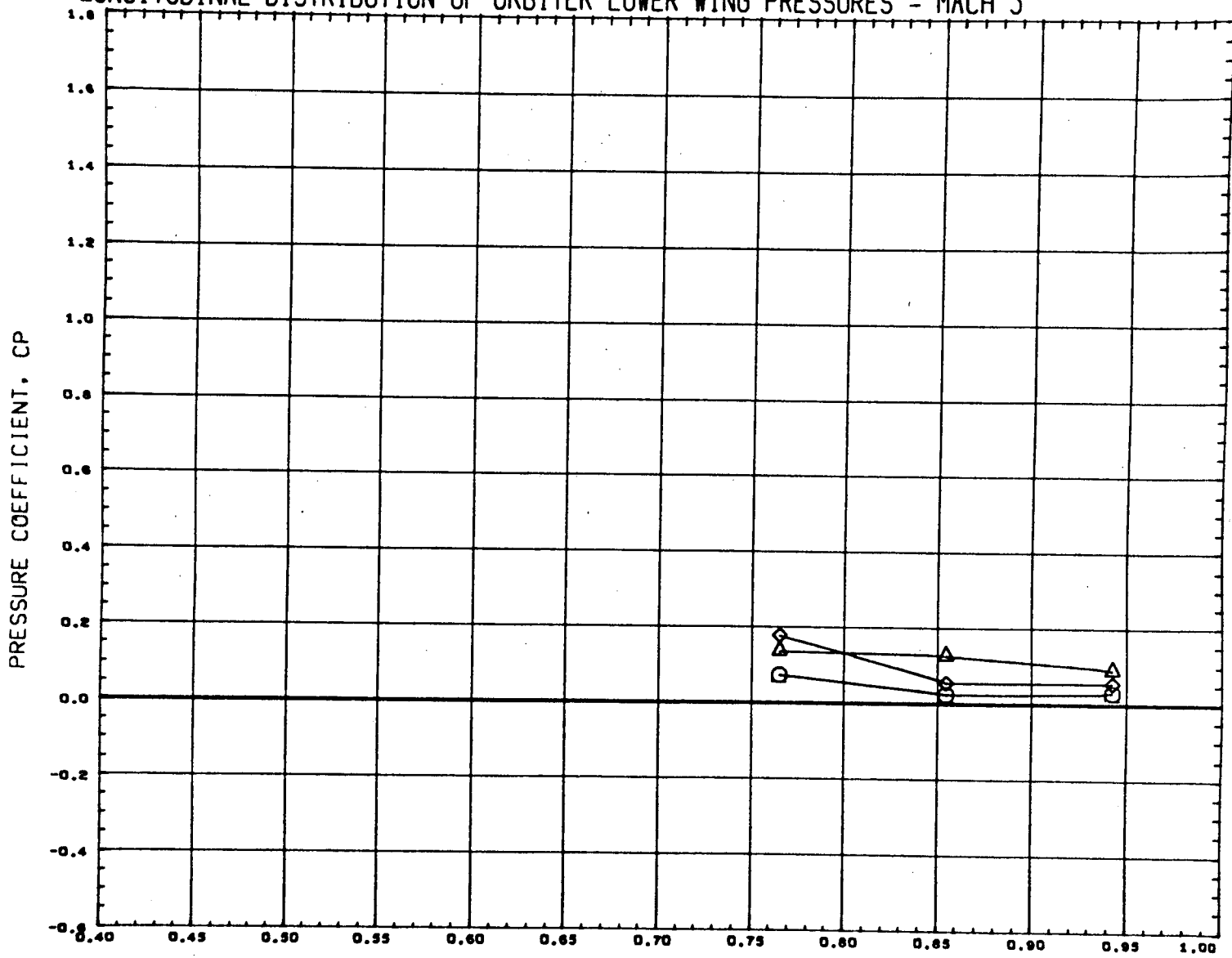
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



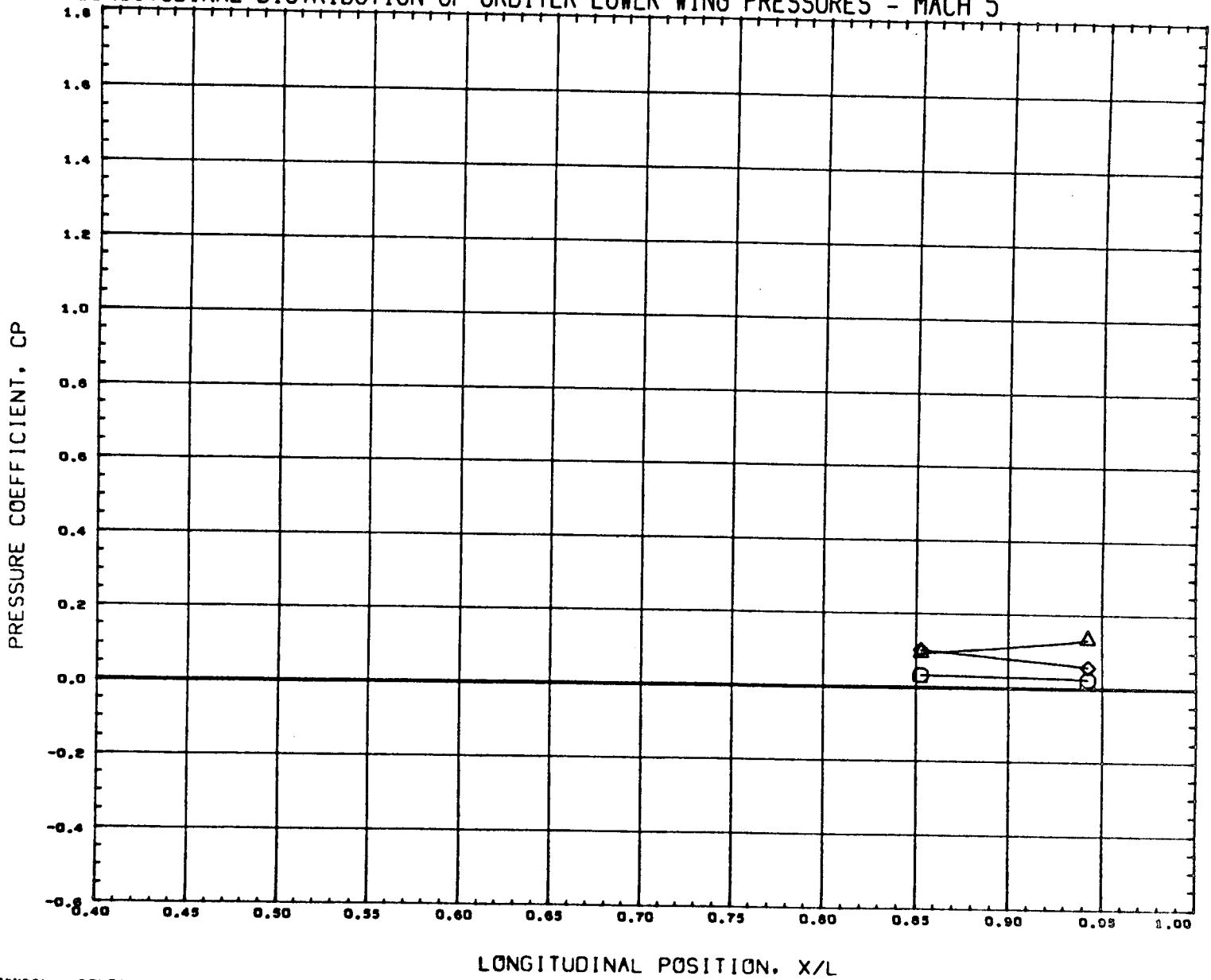
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.369	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
△	0.144	0.738	0.151
◇	0.103		
○	0.226		

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

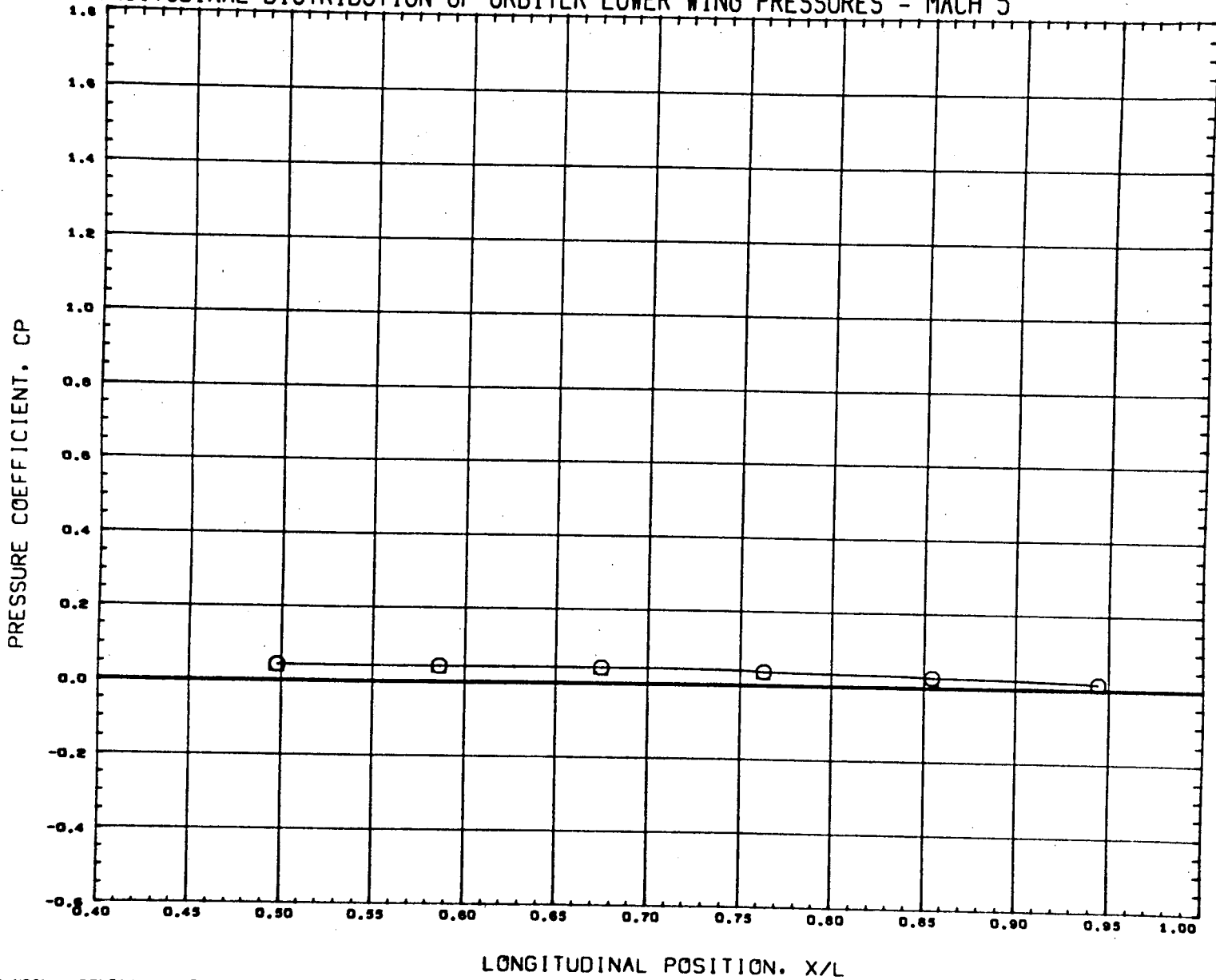
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

PAGE 860

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.920 0.230 0.908

PARAMETRIC VALUES
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 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

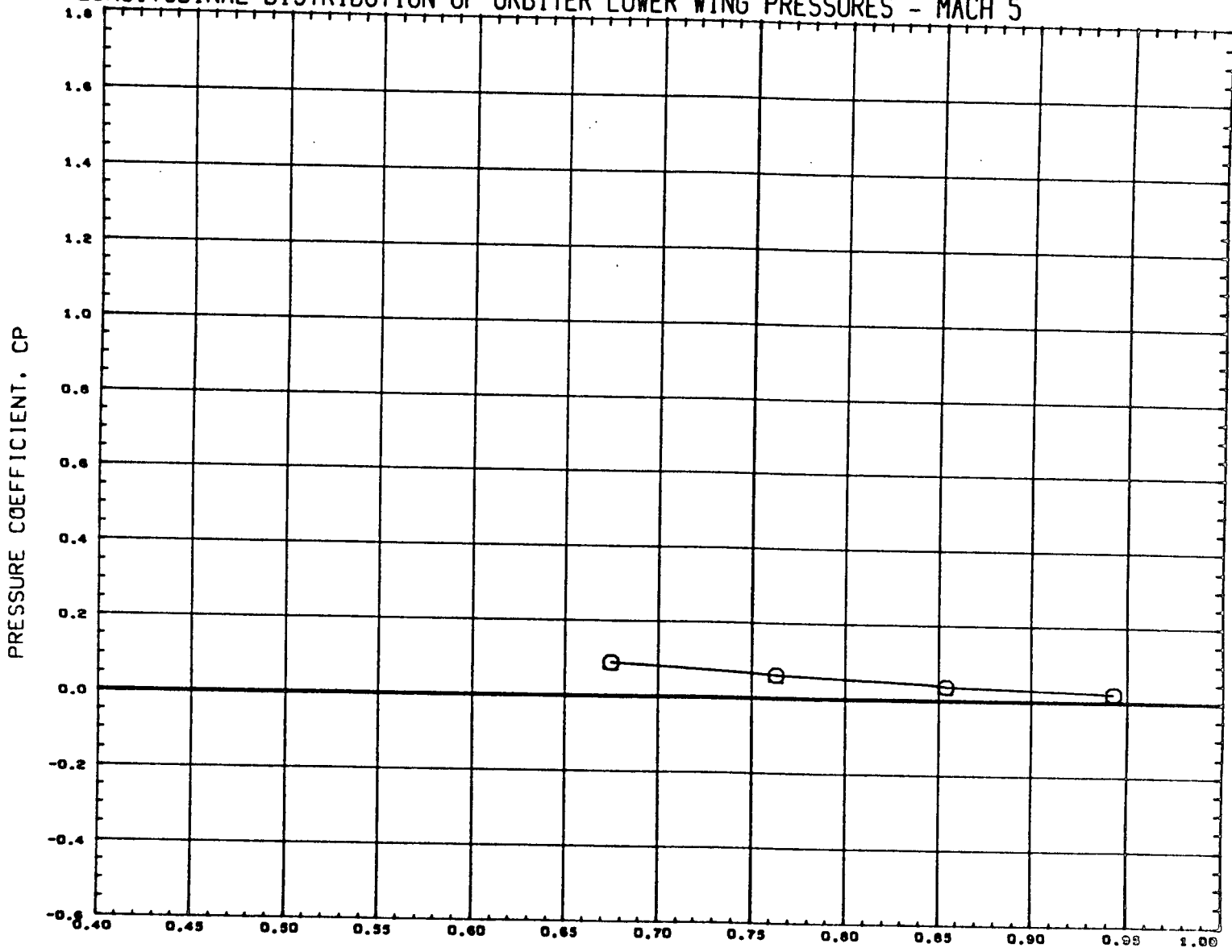
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.906

PARAMETRIC VALUES			
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ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

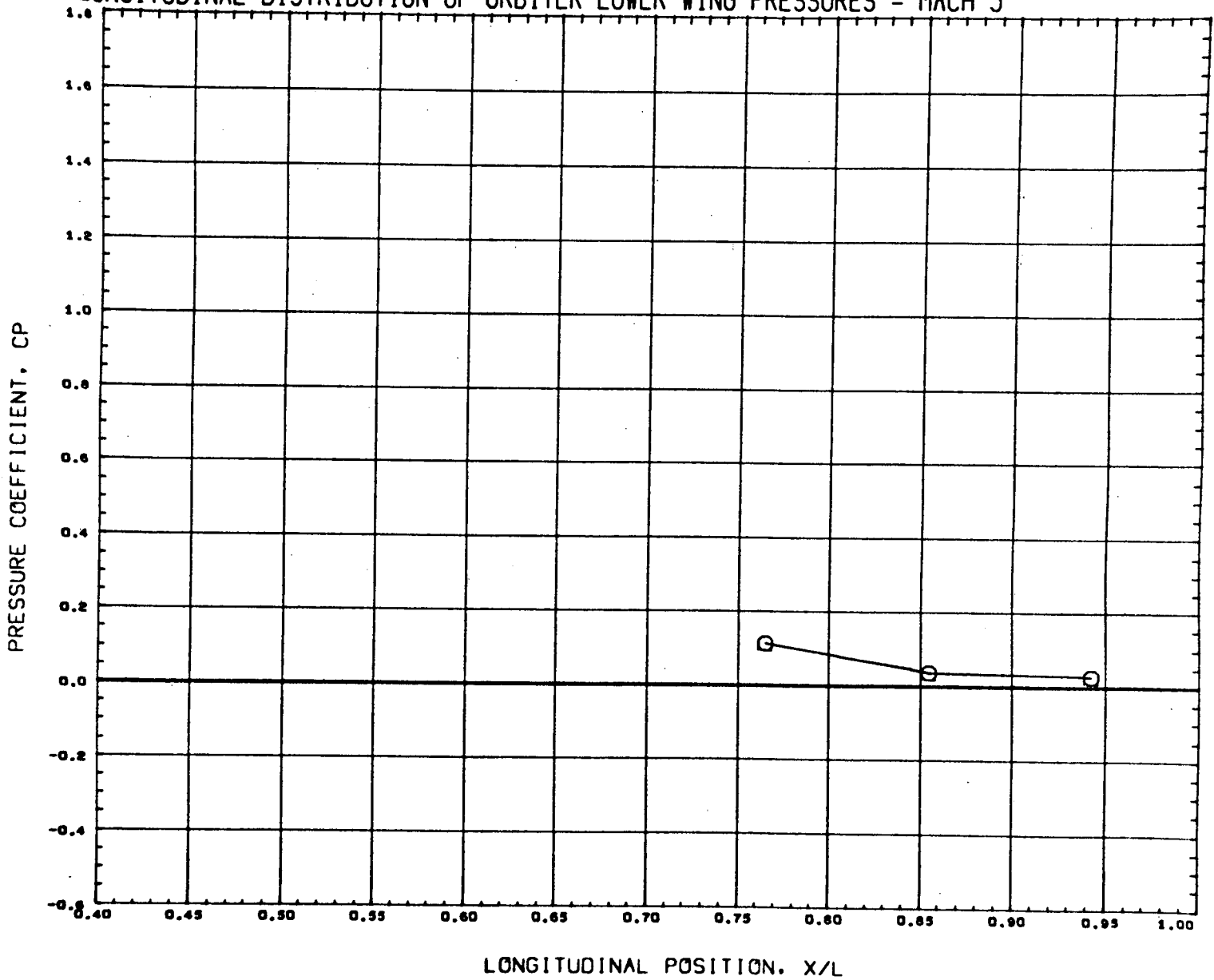
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8574•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

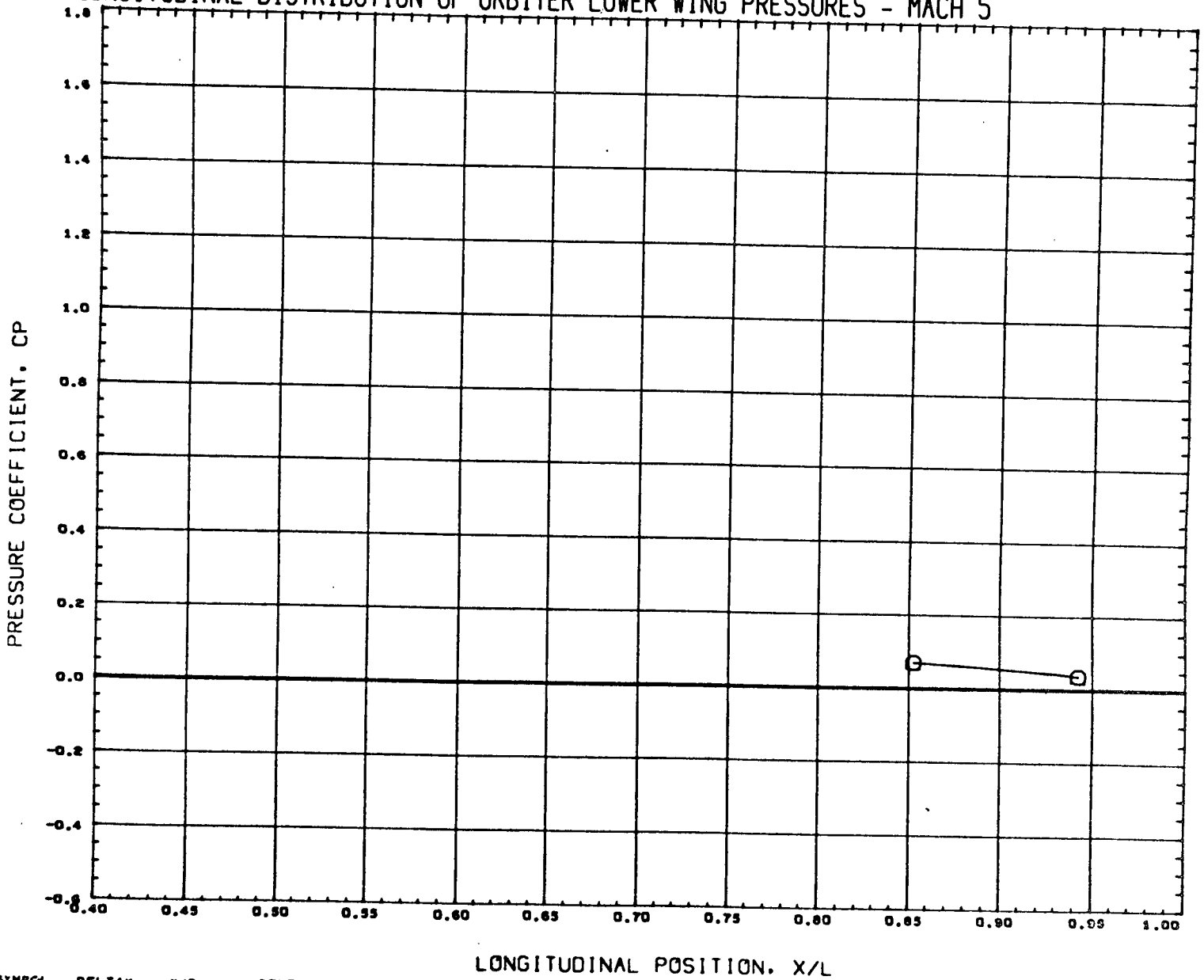


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.920	0.968	0.909

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.736	0.908

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

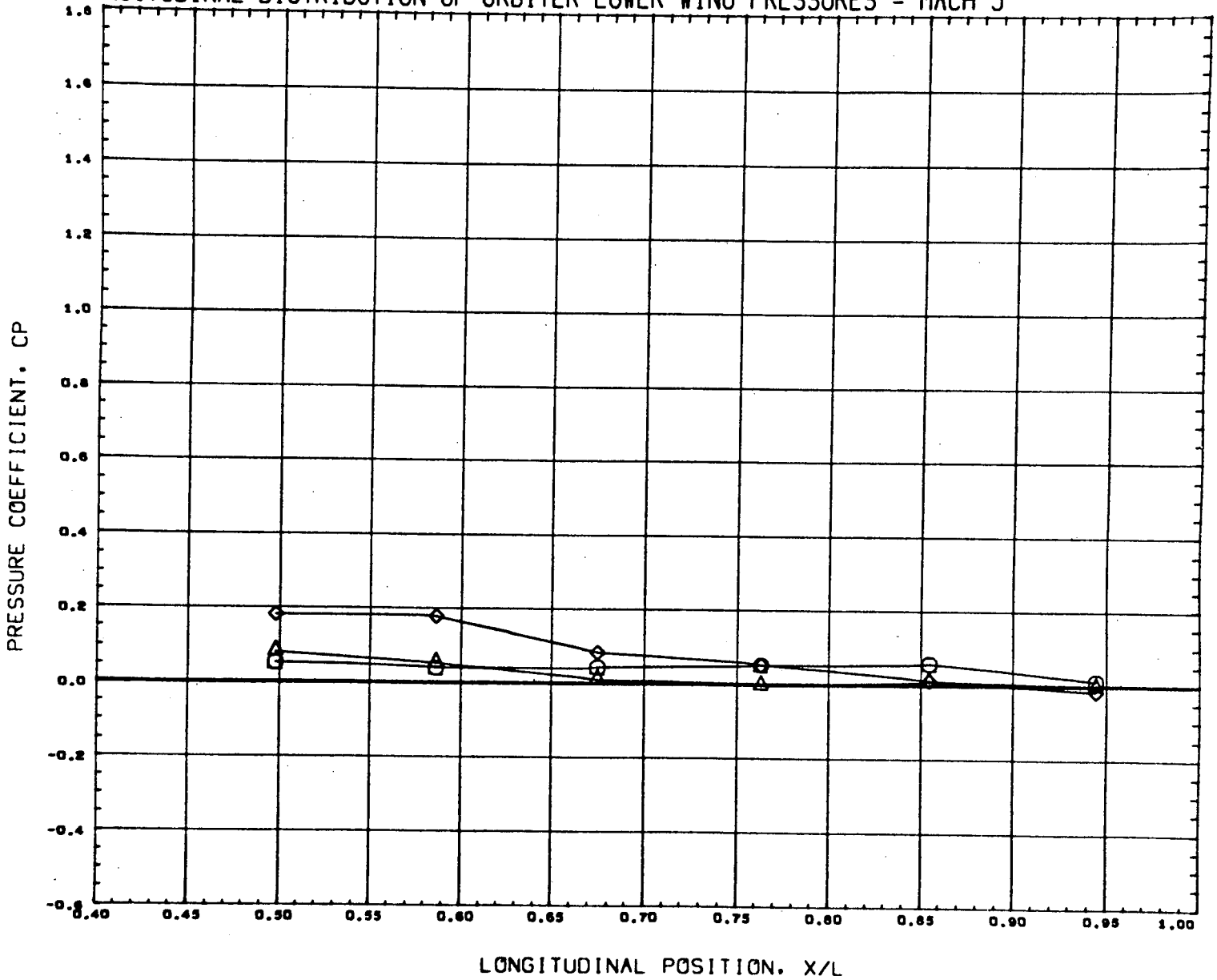
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	T/B	DELTA Z
○	0.144	0.230	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	0.000	MACH 5.040
ALPHA I	0.000	ORBPOW 0.000
BSTPOW	0.000	

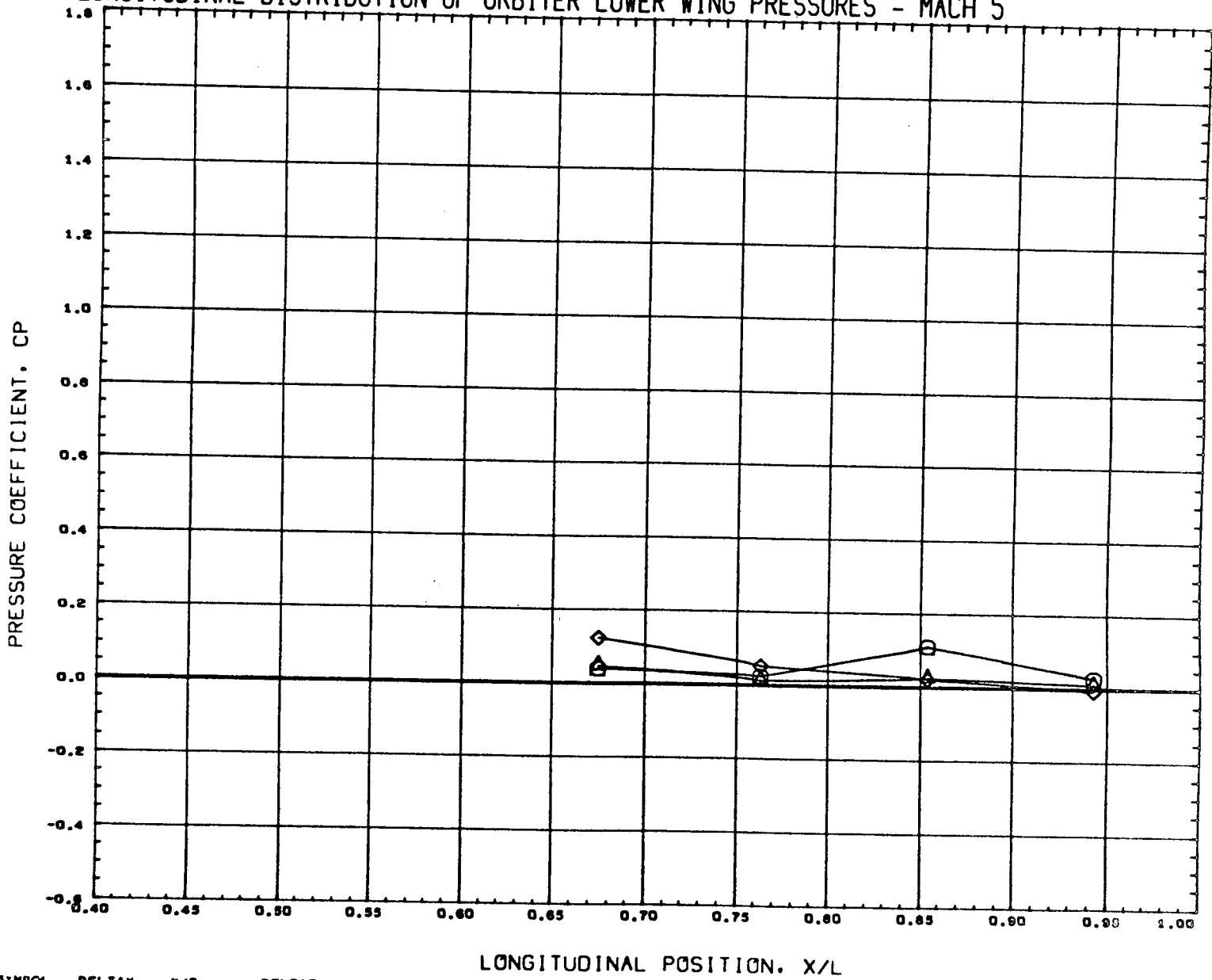
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AEC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	0.000	MACH 5.040
ALPHA1	0.000	ORBPOW 0.000
BSTPOW	0.000	

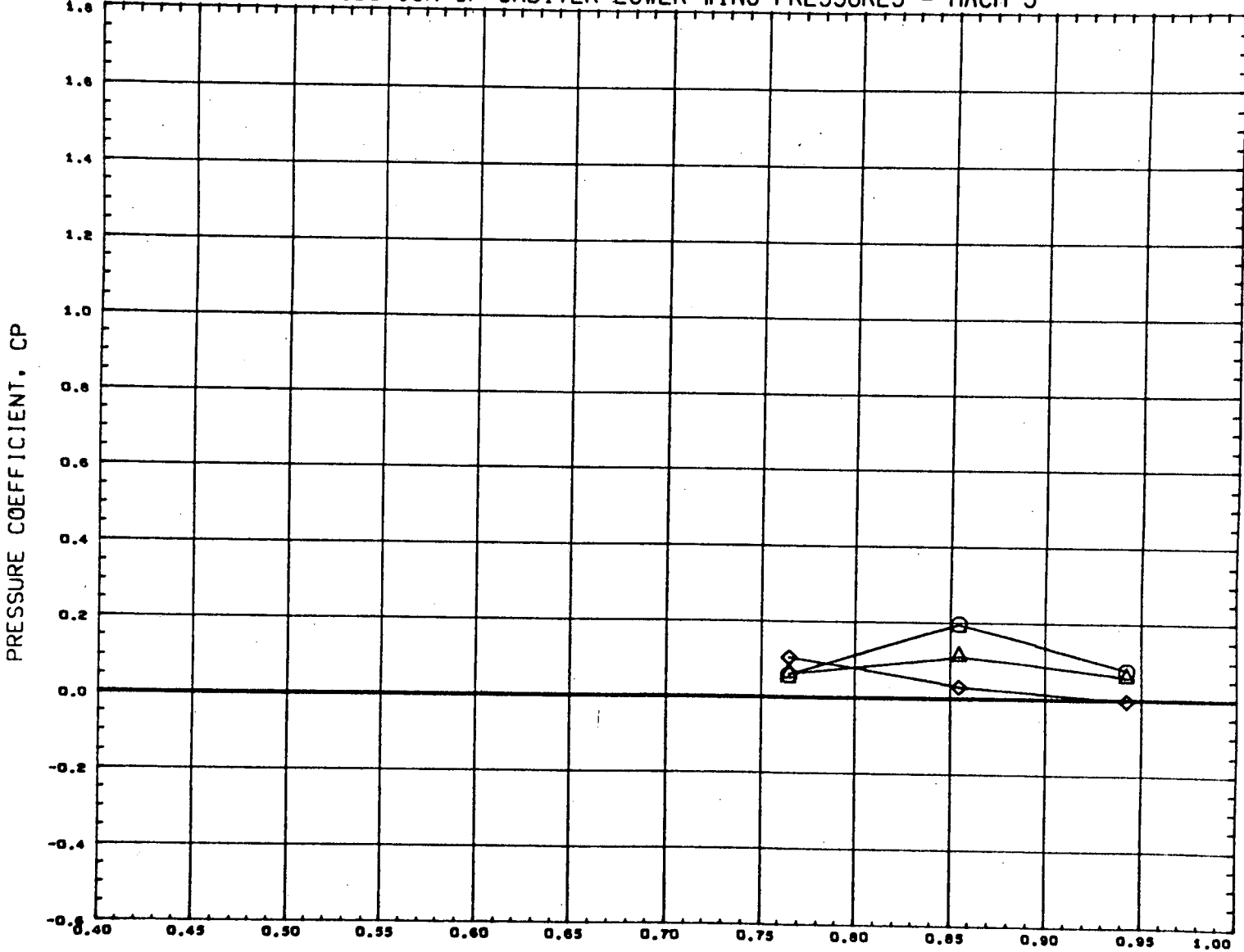
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.566	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

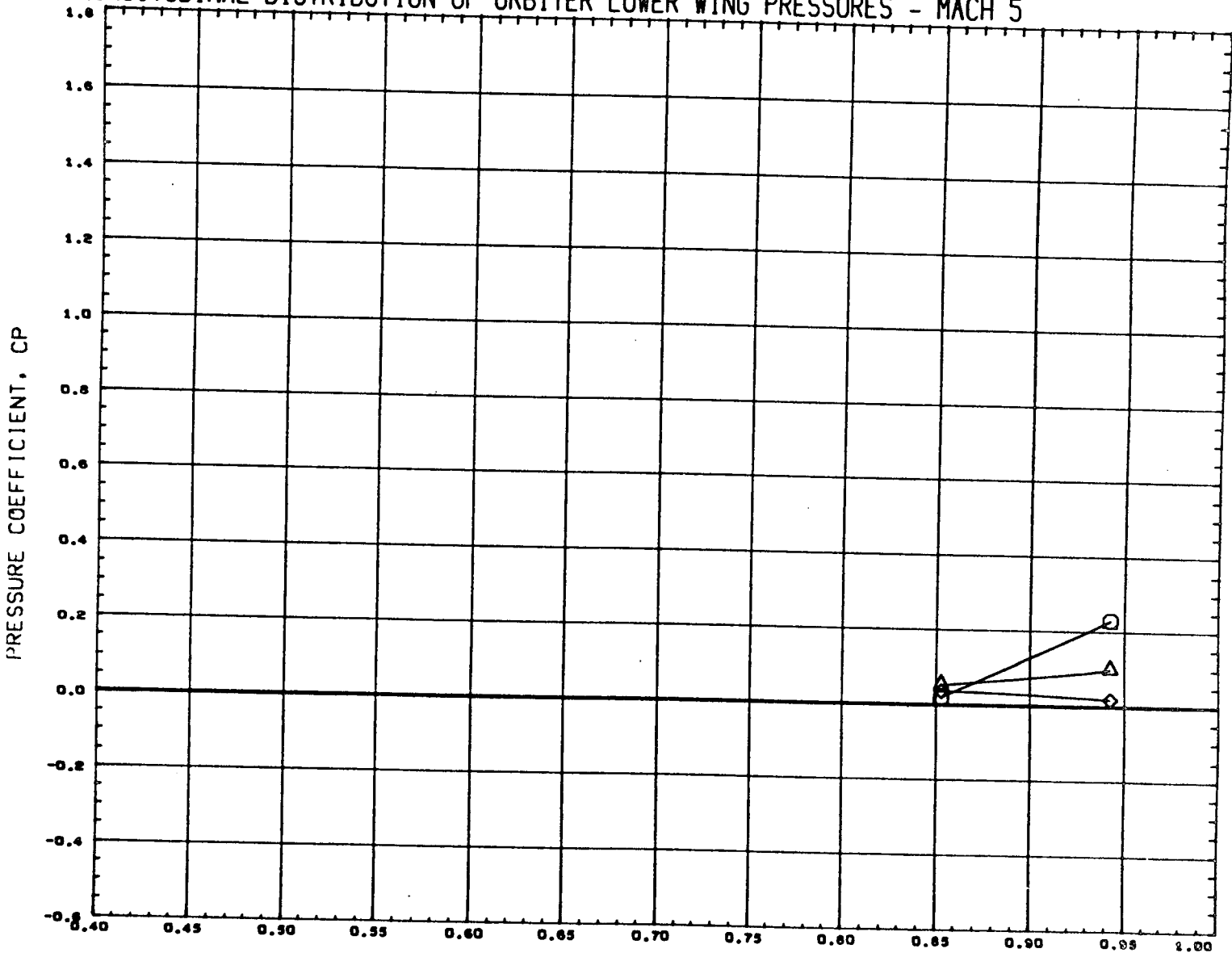
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.739	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

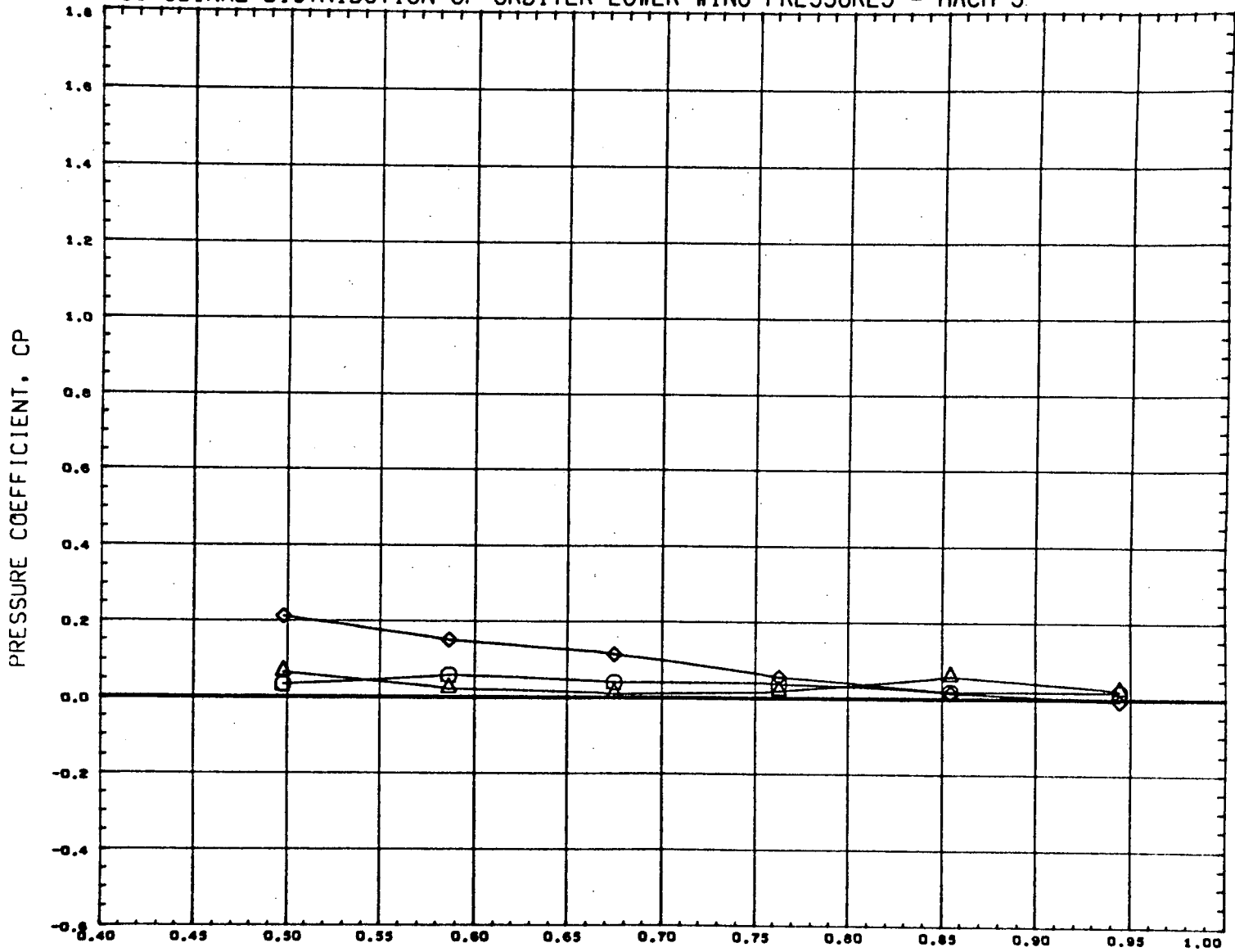
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.230	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

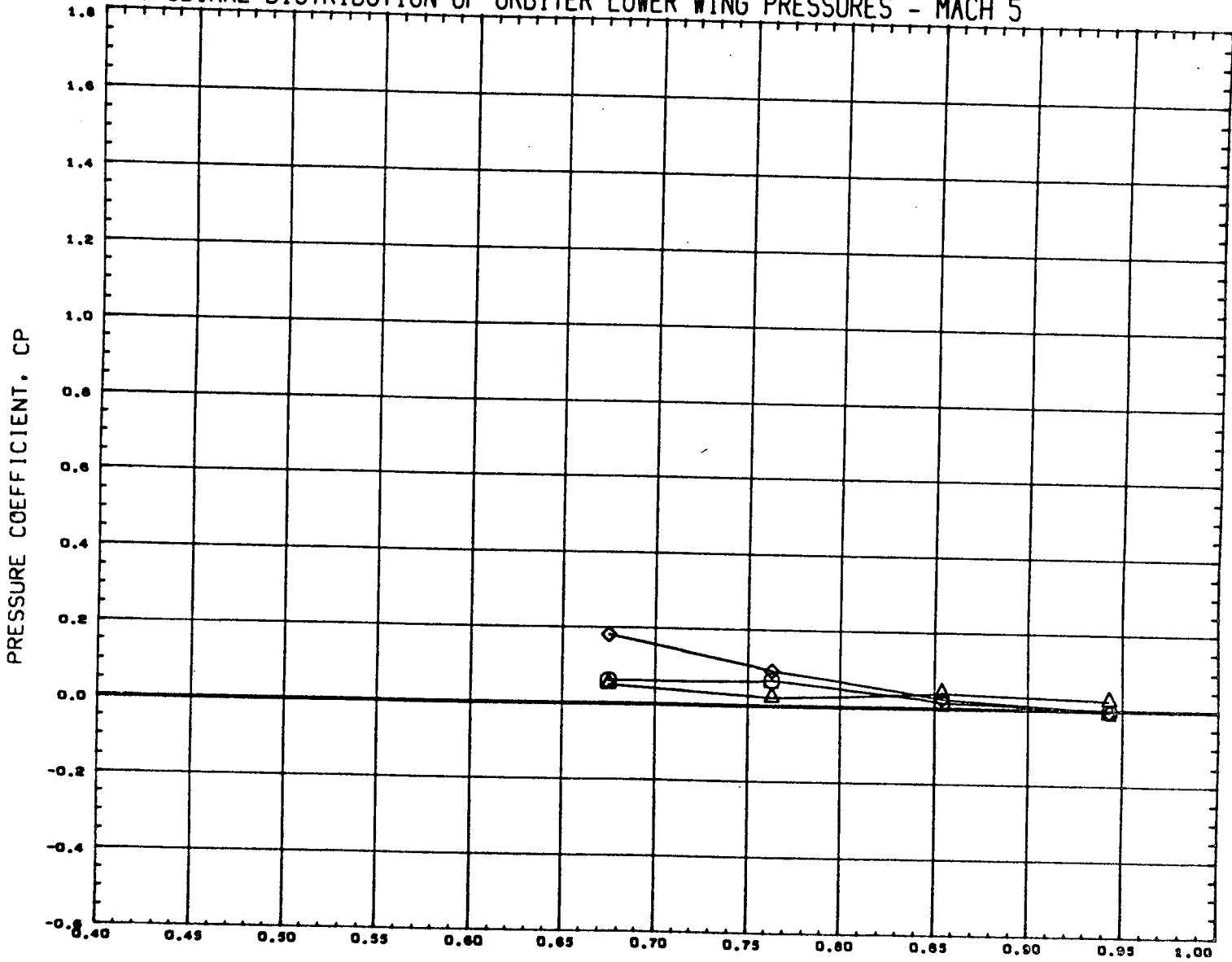
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

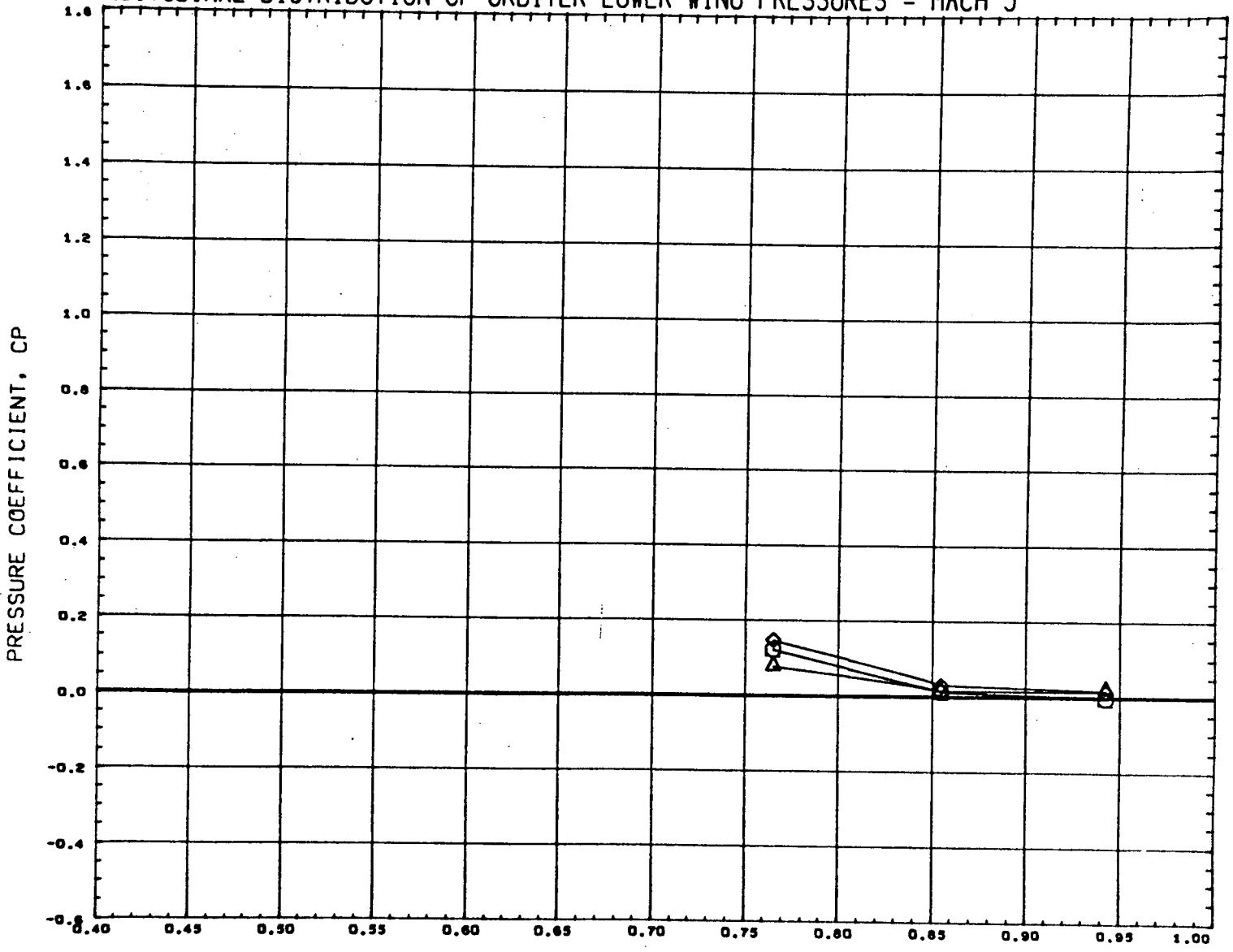
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.566	0.131
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

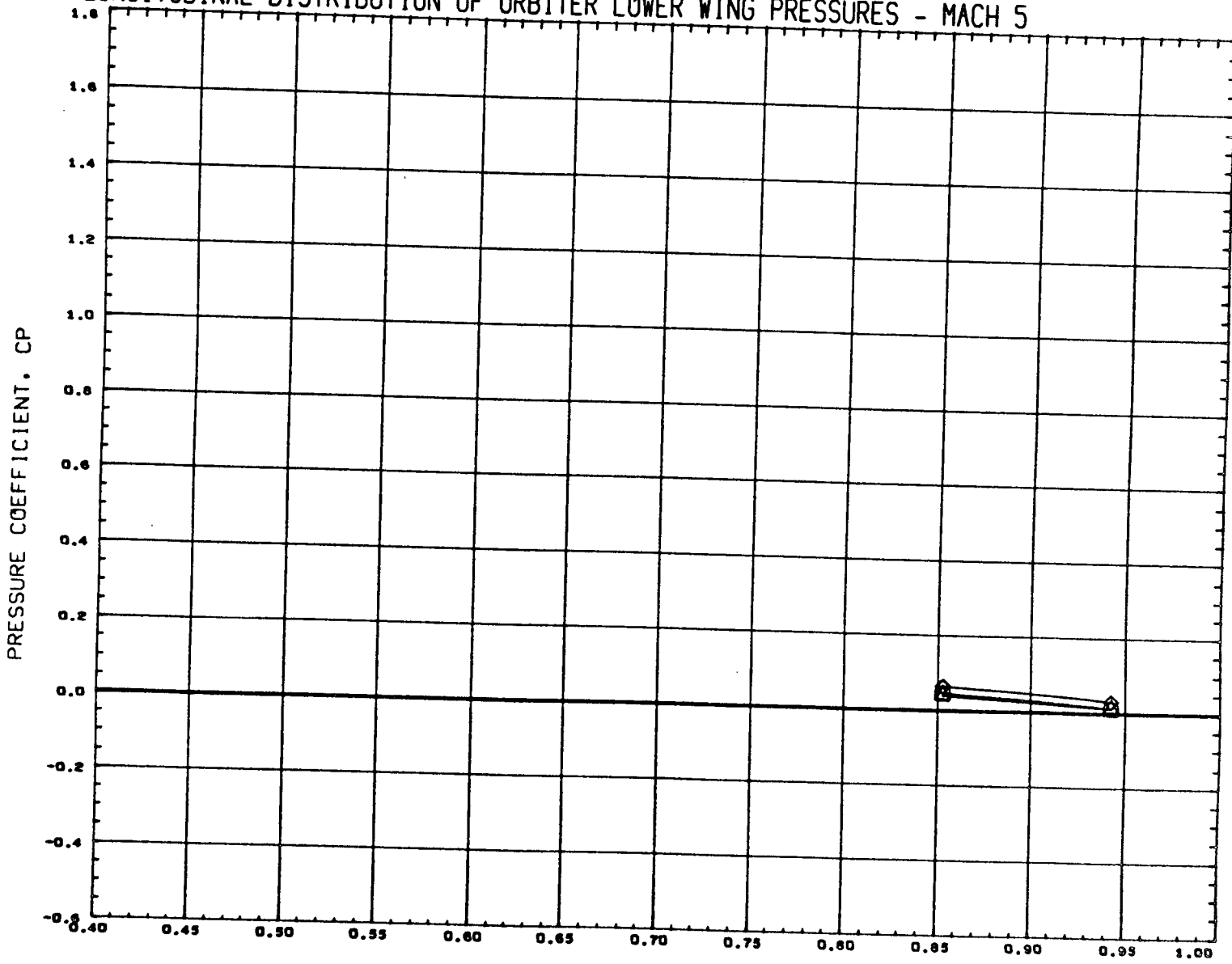
REFERENCE FILE

AEDC VA1163 MOAC ORBITER (LOWER WING)

•HT8583•

PAGE 871

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.736	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.000
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

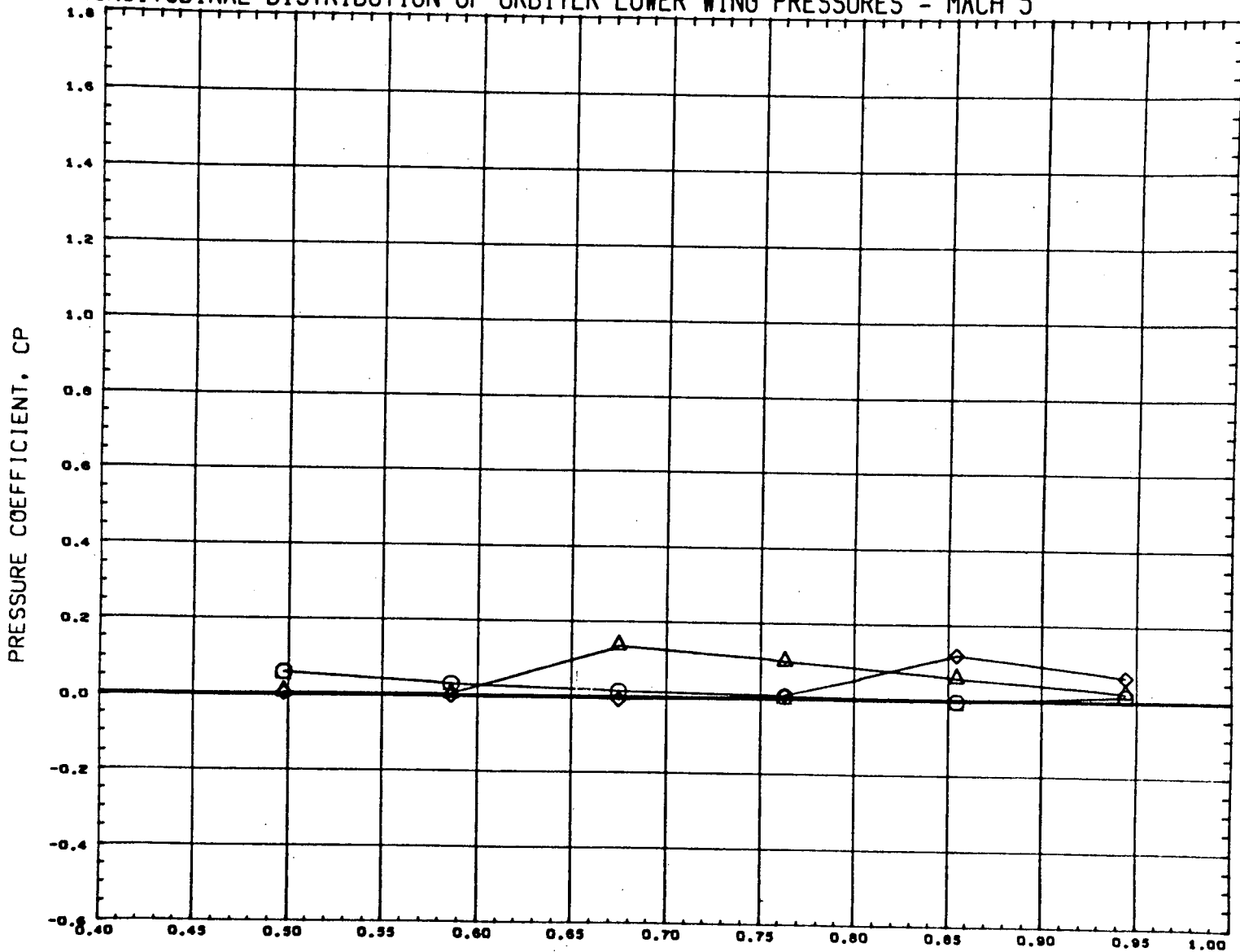
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 872

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z	PARAMETRIC VALUES			
○	0.144	0.230	0.226	ALPHAB	0.000	MACH	5.040
△	0.103			ALPHAI	0.000	ORBPOW	0.000
◇	0.226			BSTPOW	0.000		

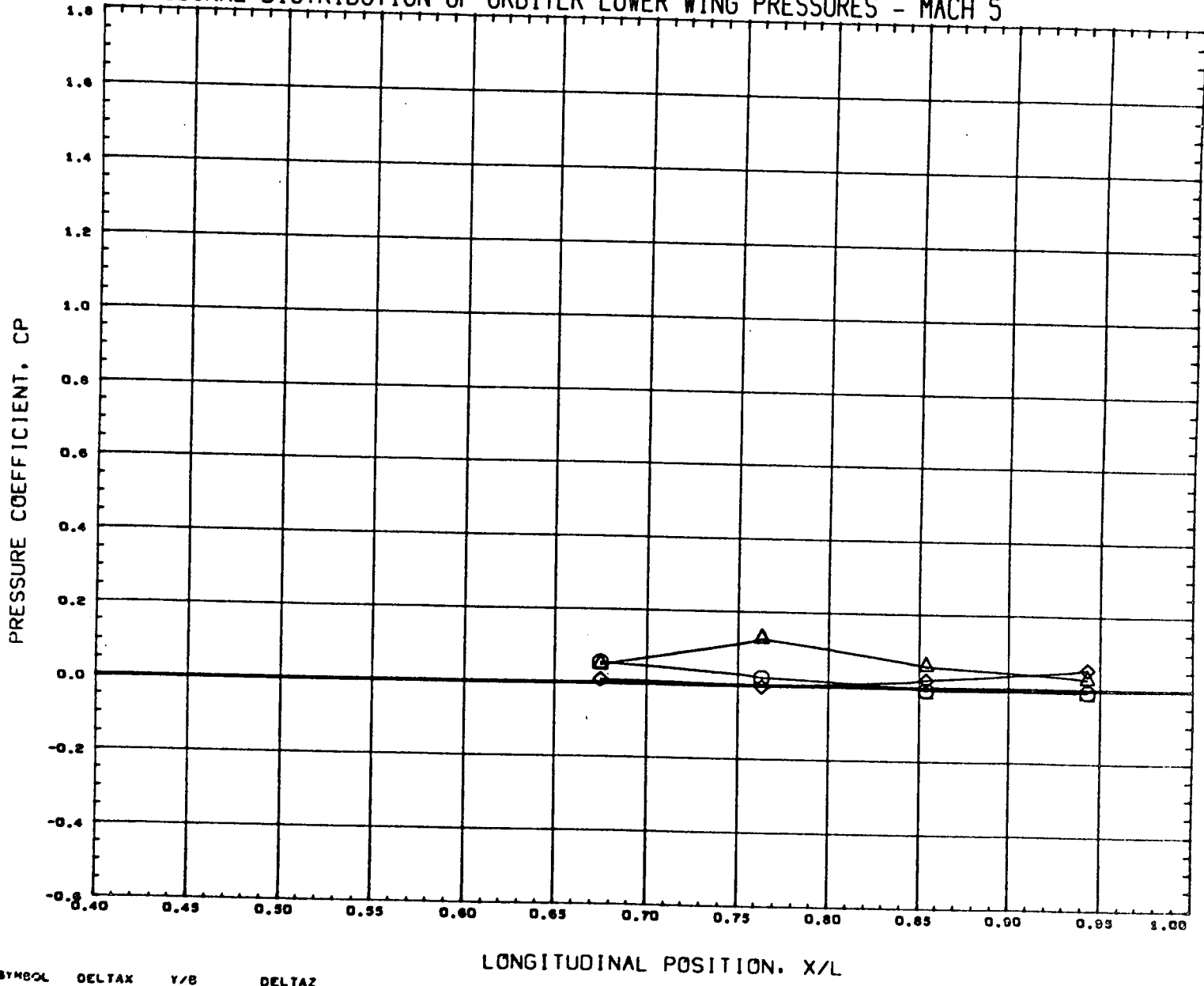
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 873

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.399	0.226
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

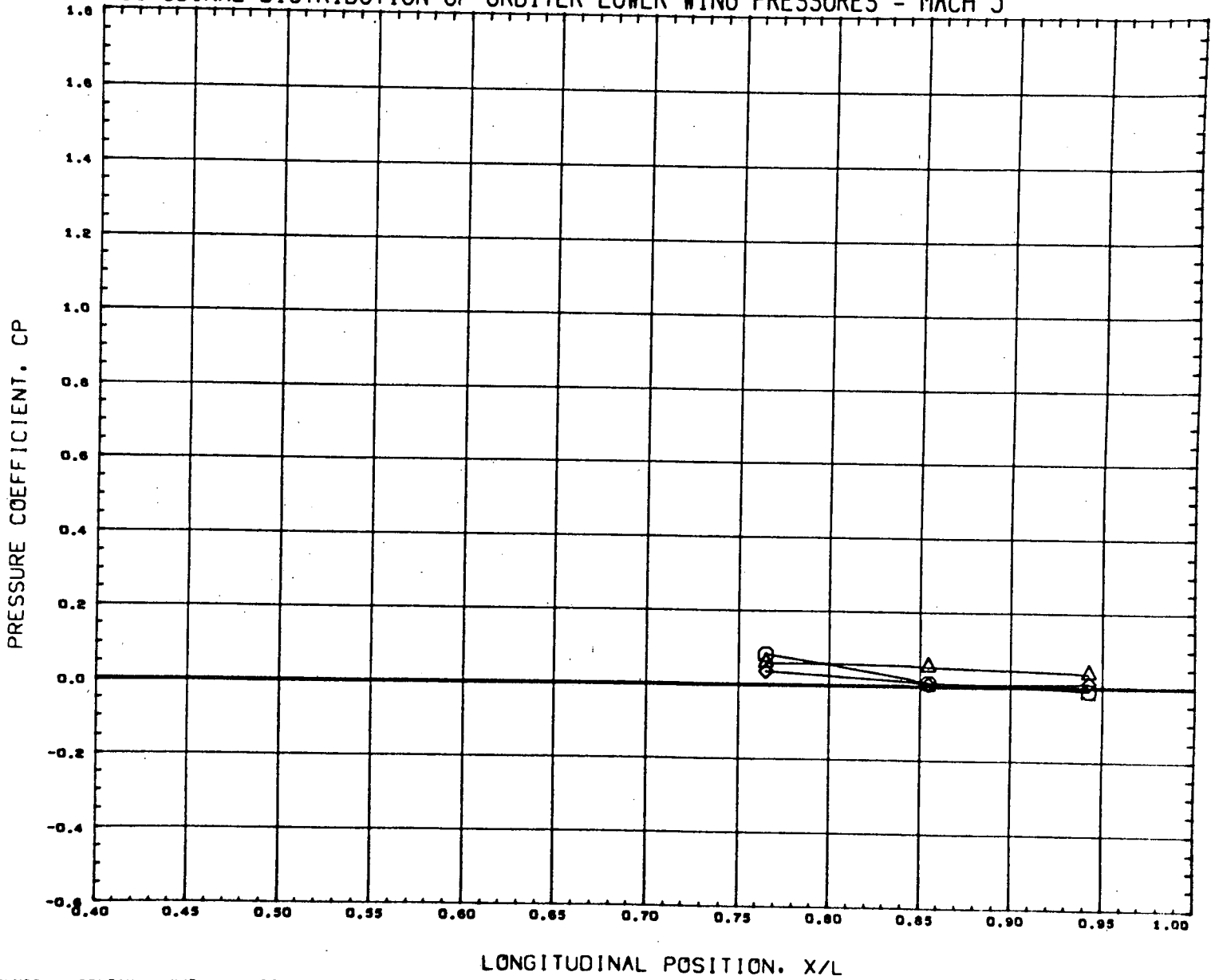
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 874

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.566	0.226
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

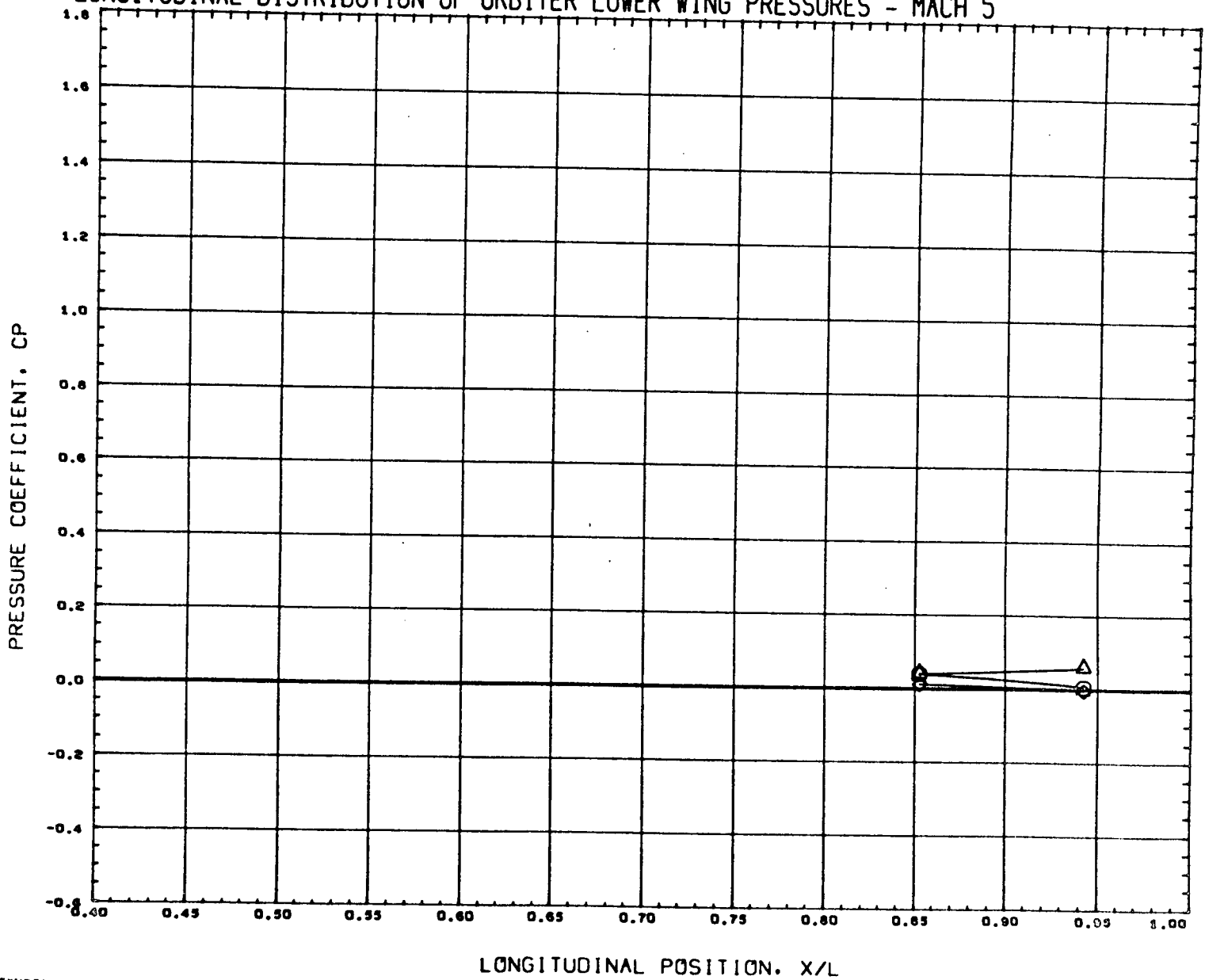
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 875

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.144	0.738	0.228
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

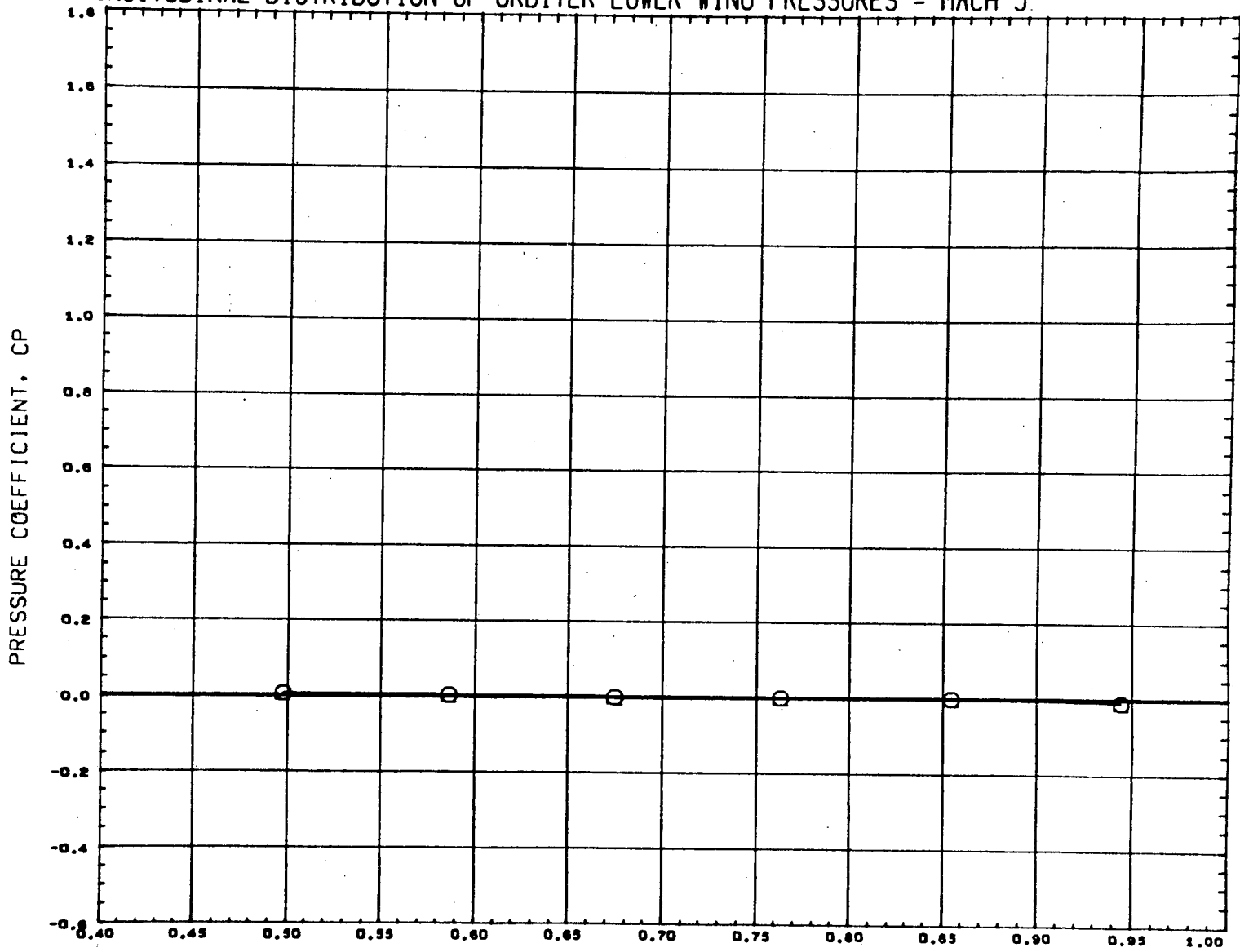
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 876

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.230	0.900

PARAMETRIC VALUES			
ALPHA B	0.000	MACH	5.040
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

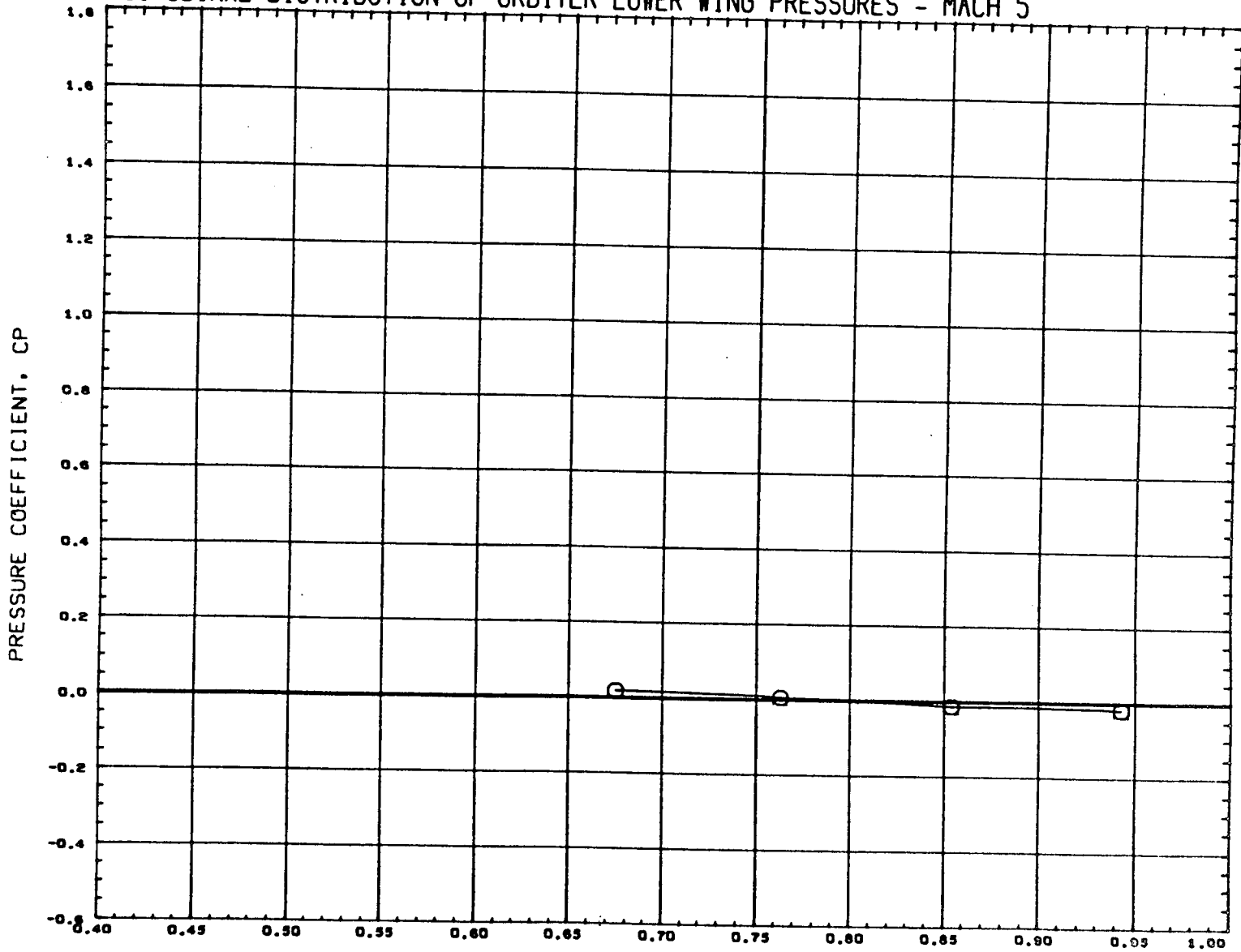
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 877

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.906

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

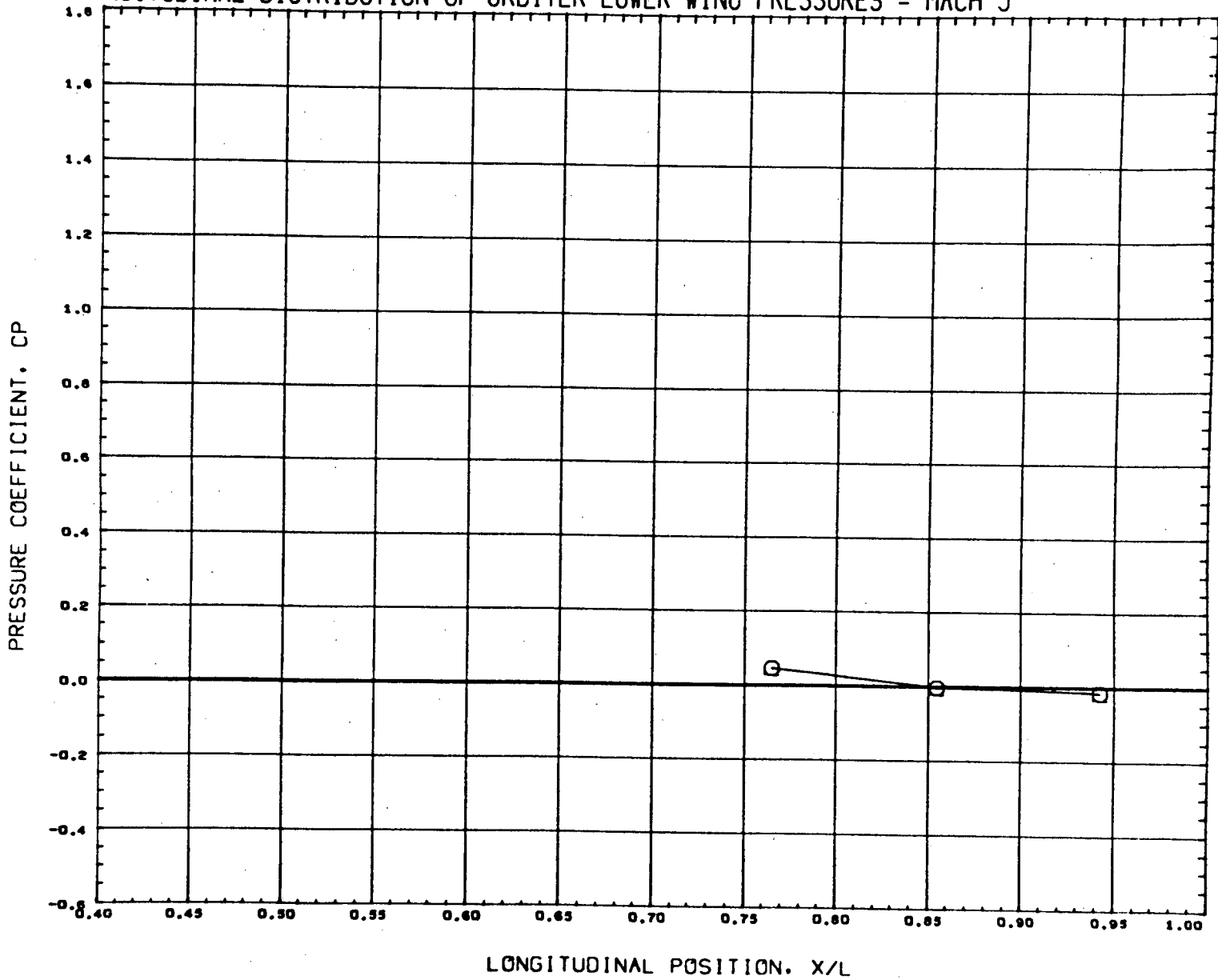
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 878

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.569	0.909

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

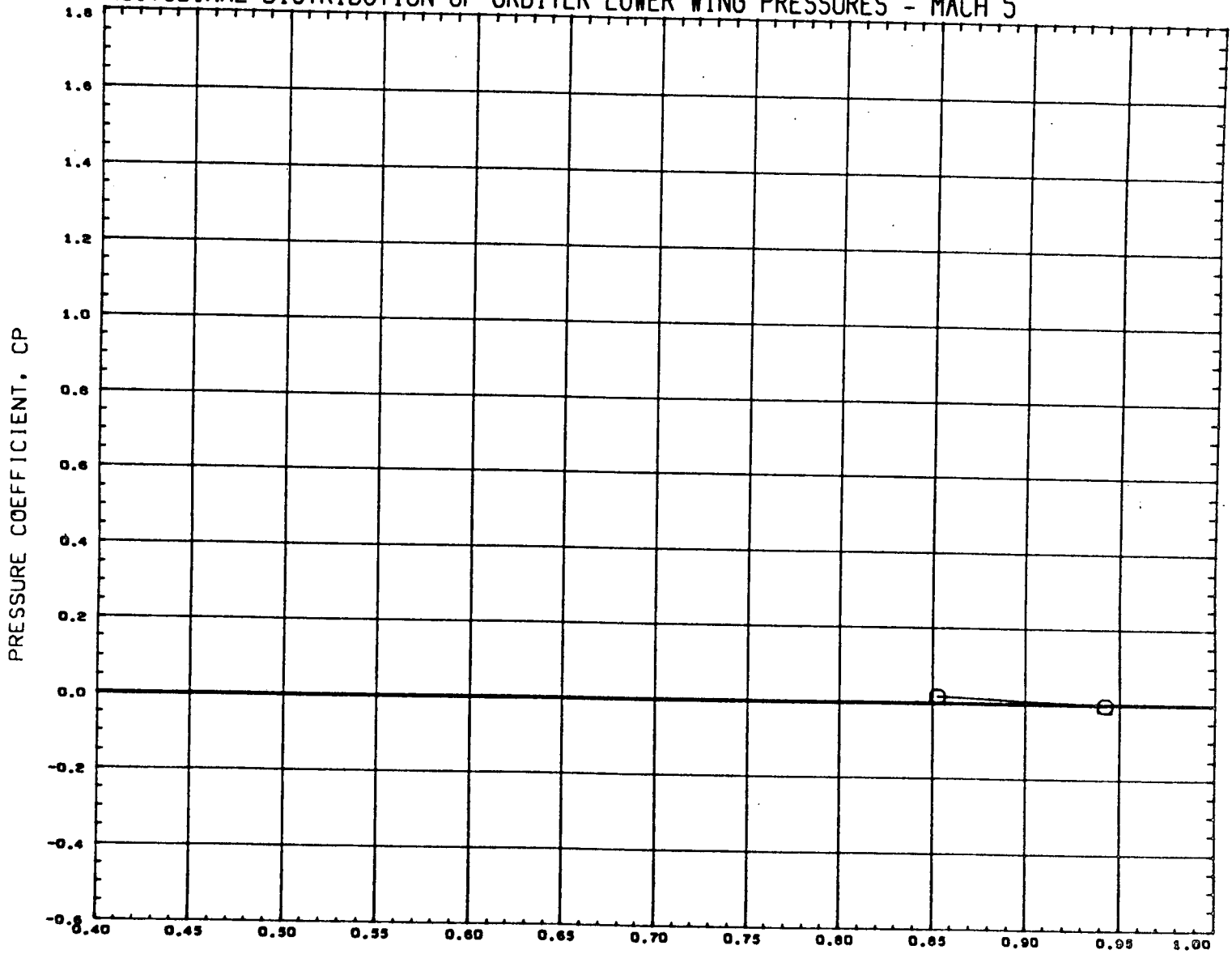
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 879

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.739	0.908

PARAMETRIC VALUES			
ALPHAS	0.000	MACH	5.040
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

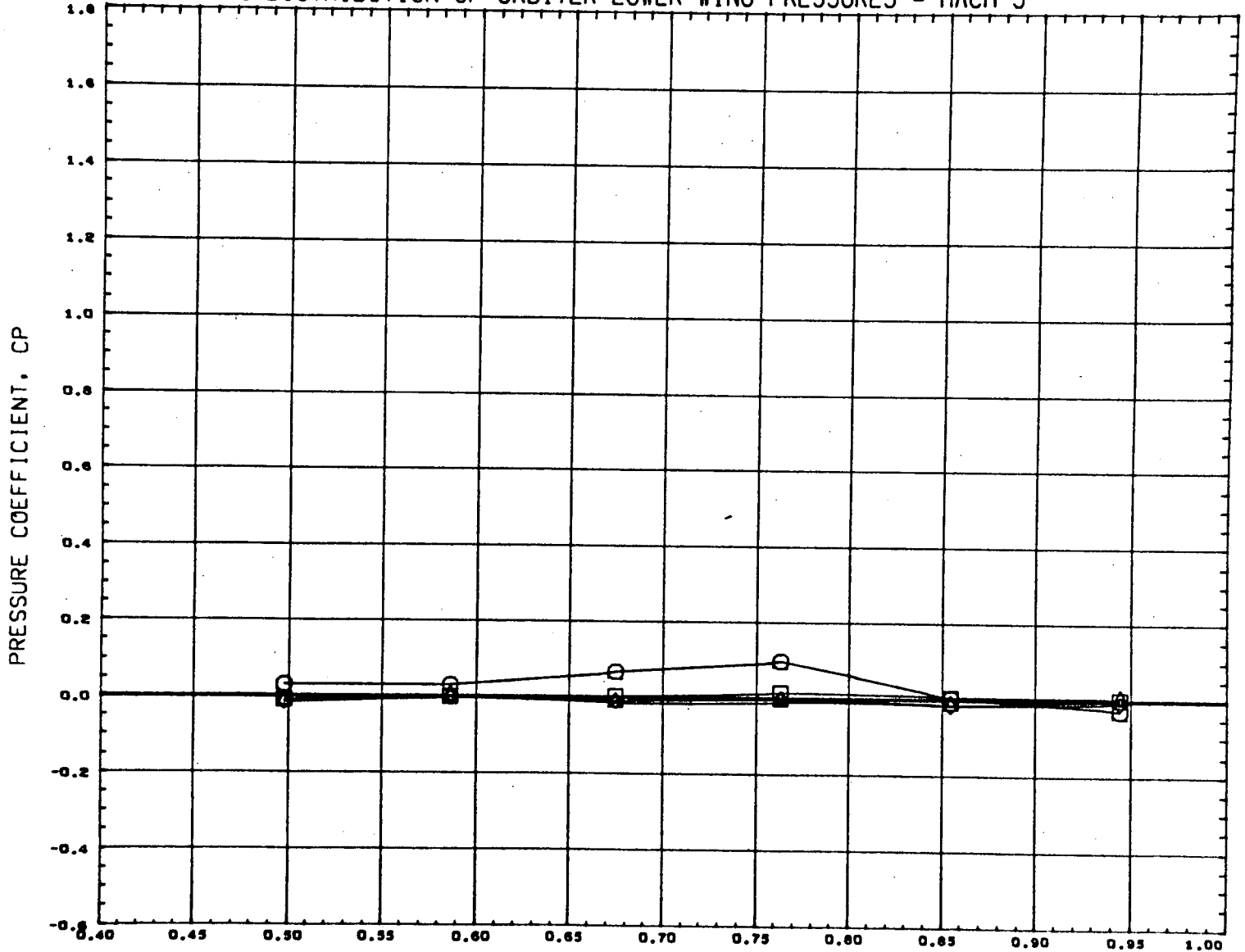
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8583•

PAGE 880

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



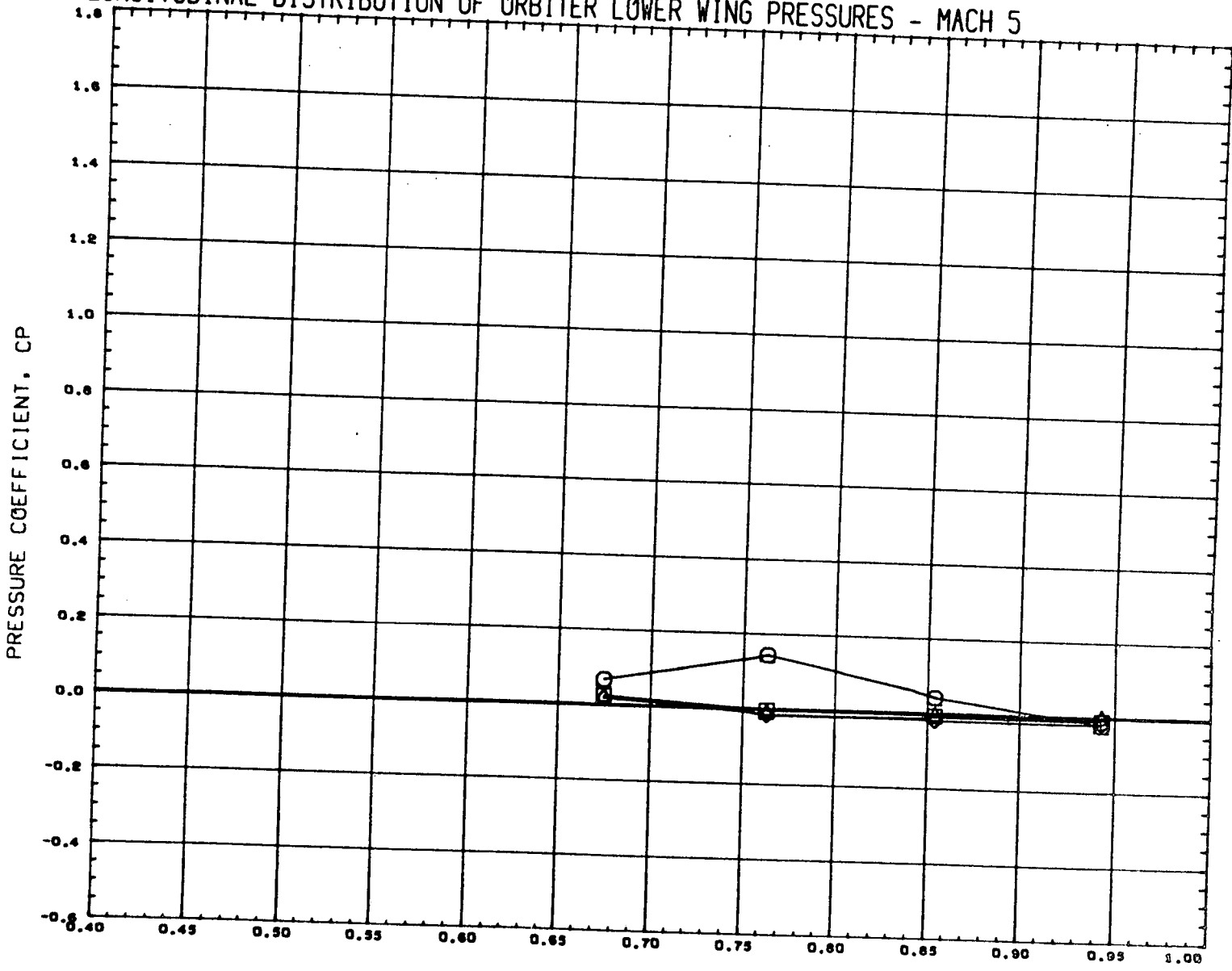
SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES		
ALPHAB	9.962	MACH 4.970
ALPHA1	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

LONGITUDINAL POSITION, X/L

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.982	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

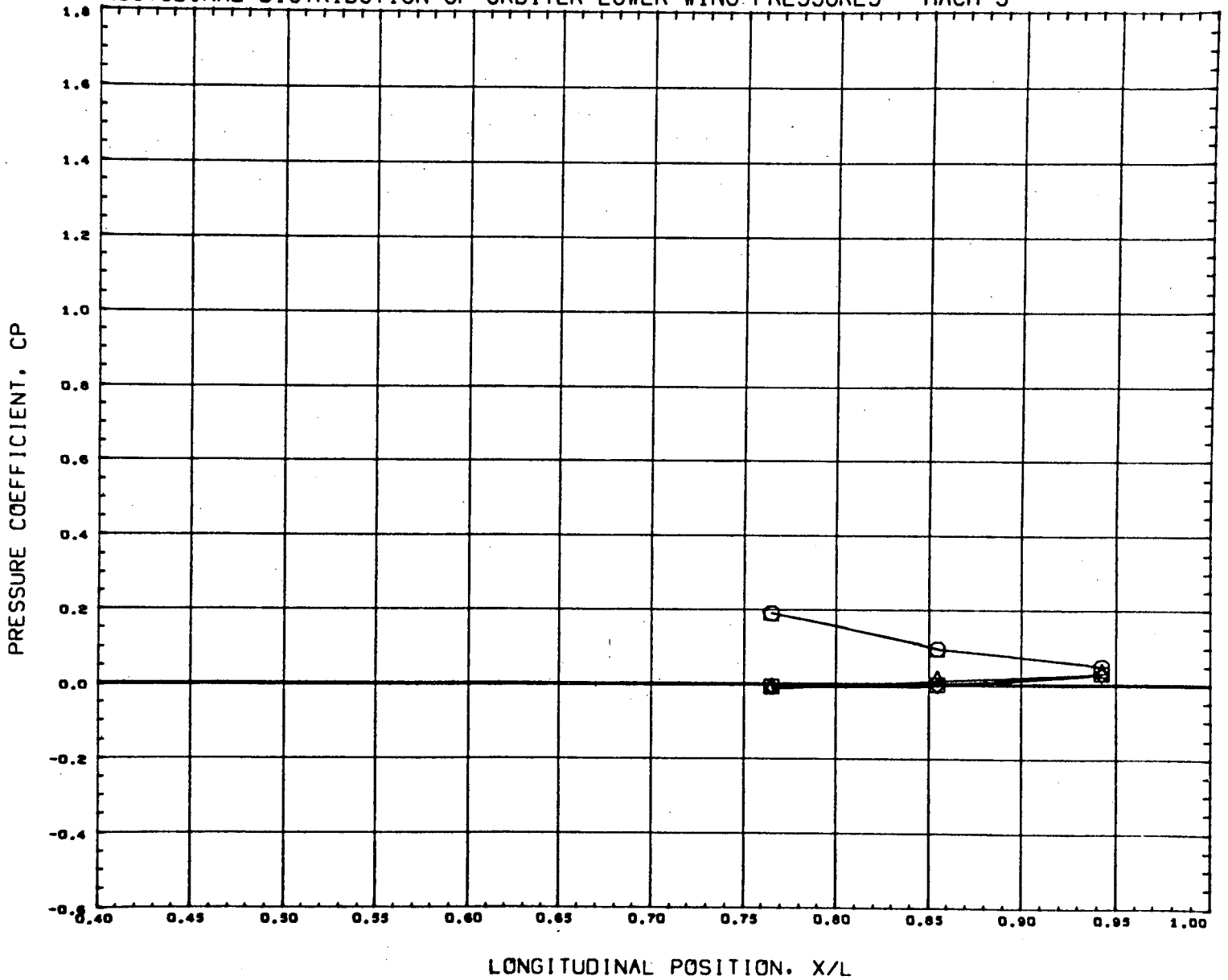
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8591•

PAGE 882

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.566	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHA B	9.982	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

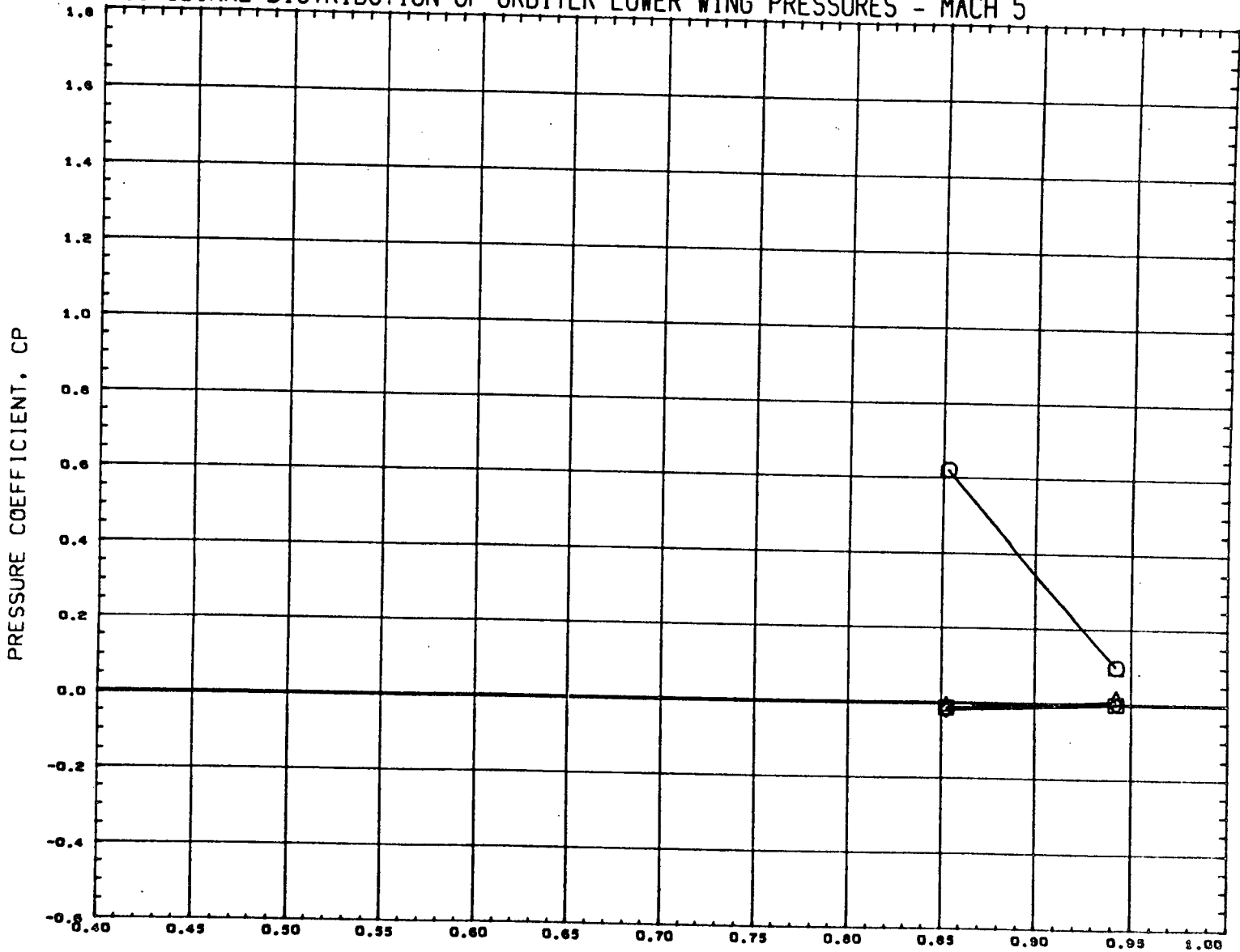
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8591•

PAGE 883

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.736	0.106
◇	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.982	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

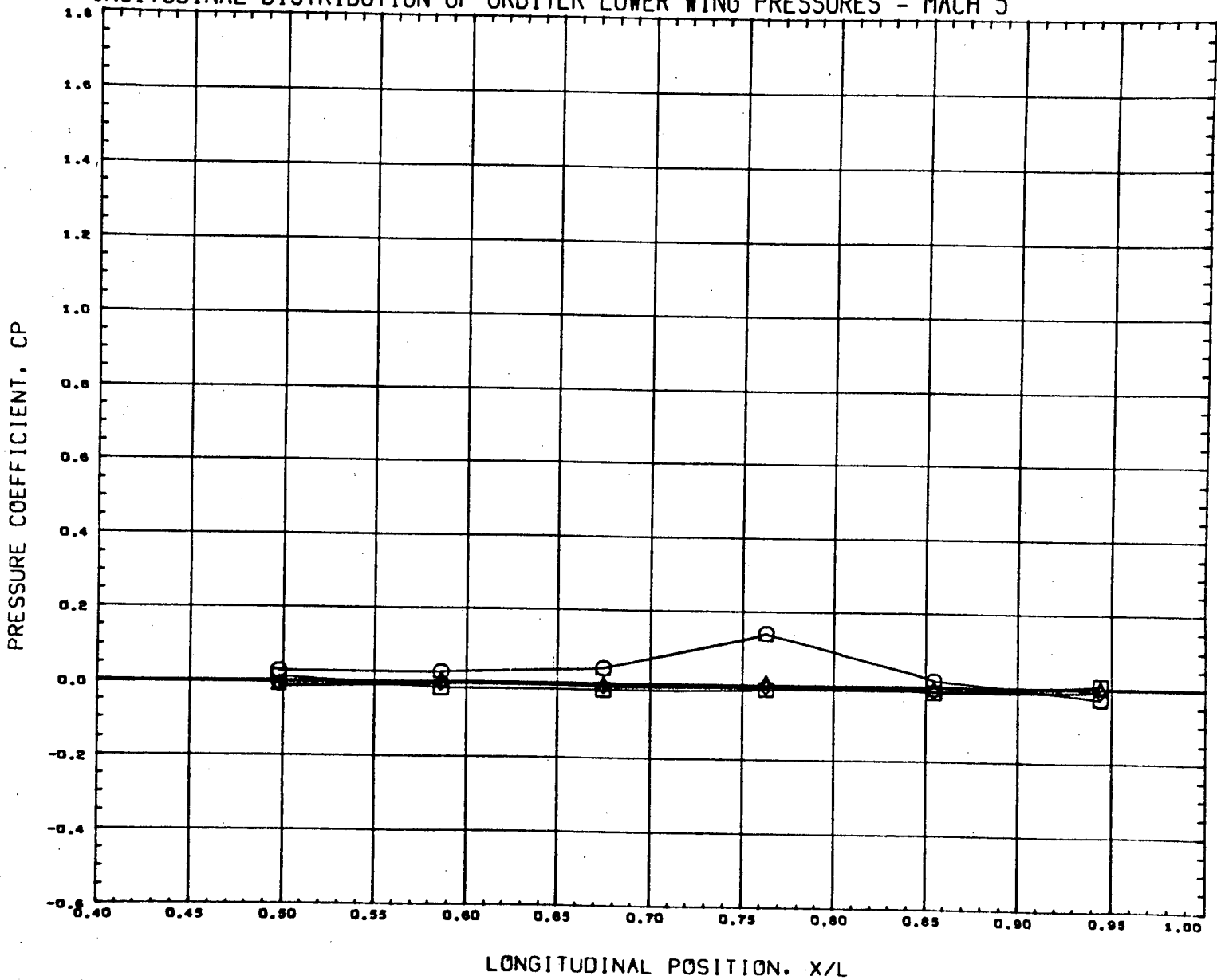
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8591•

PAGE 884

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106
◇	0.041		
△	0.103		
□	0.164		

PARAMETRIC VALUES		
ALPHAB	4.937	MACH 4.970
ALPHA I	0.000	ORBPOW 0.000
BSTPOW	0.000	

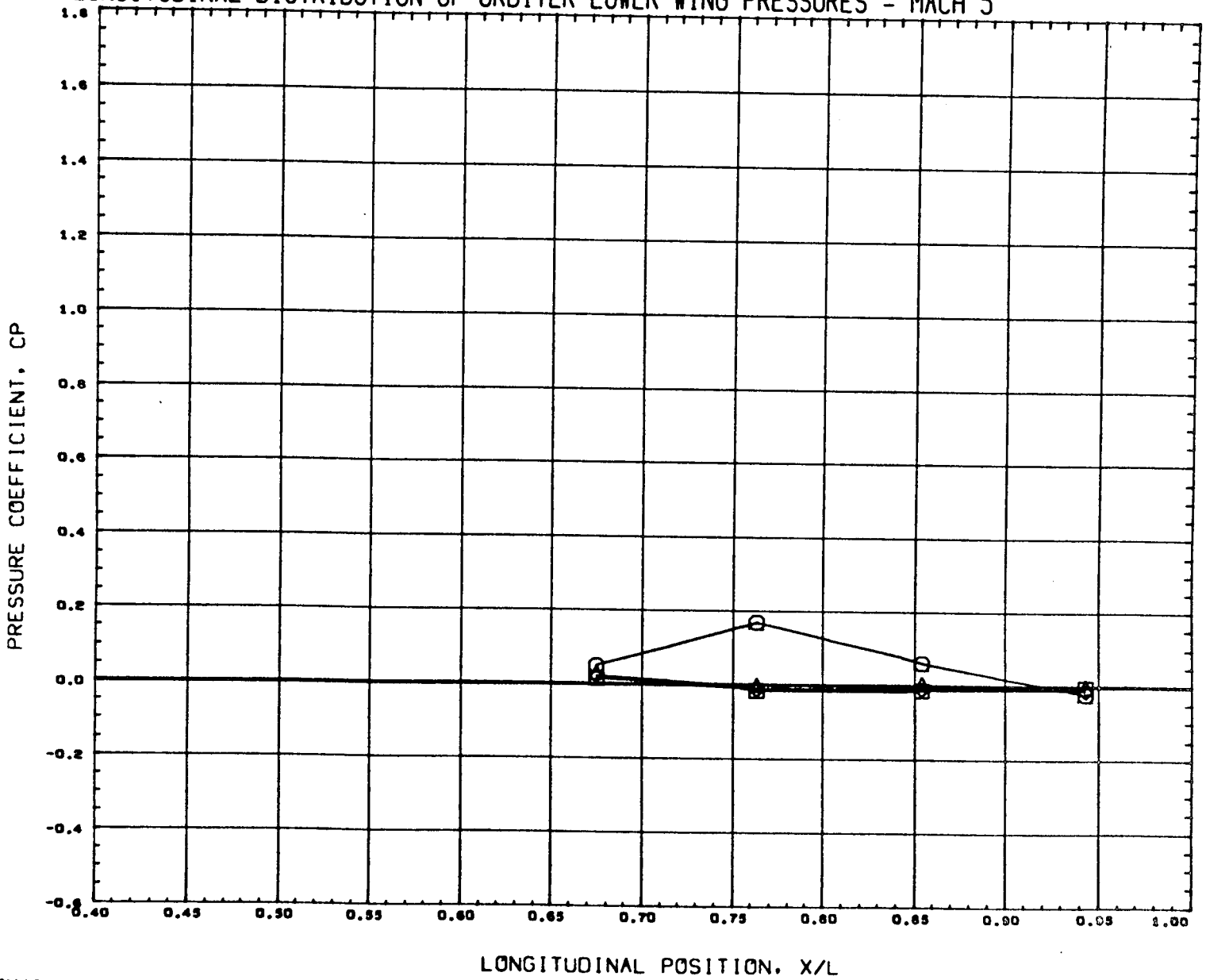
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8592•

PAGE 885

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	4.957	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPCW	0.000		

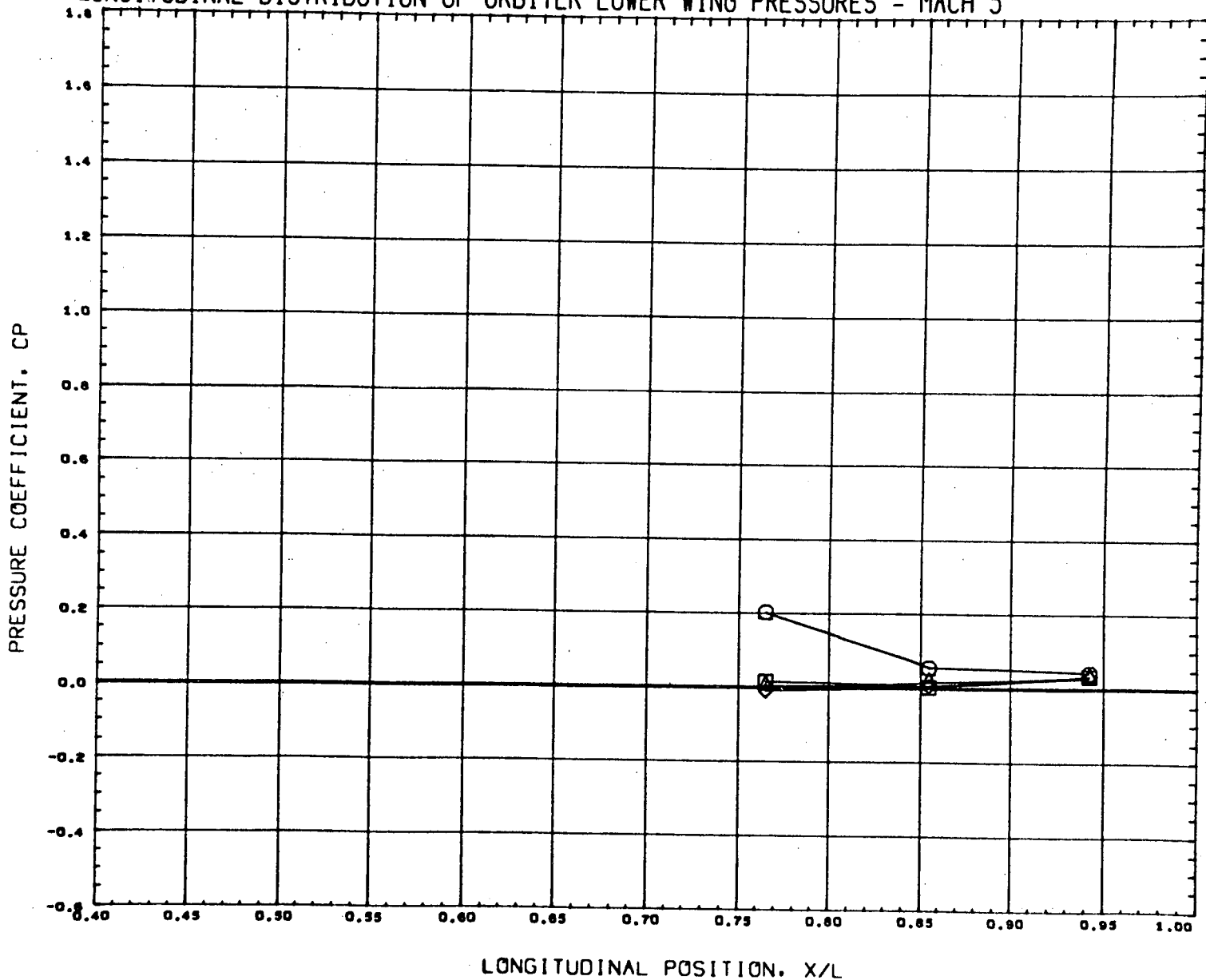
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8592•

PAGE 886

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

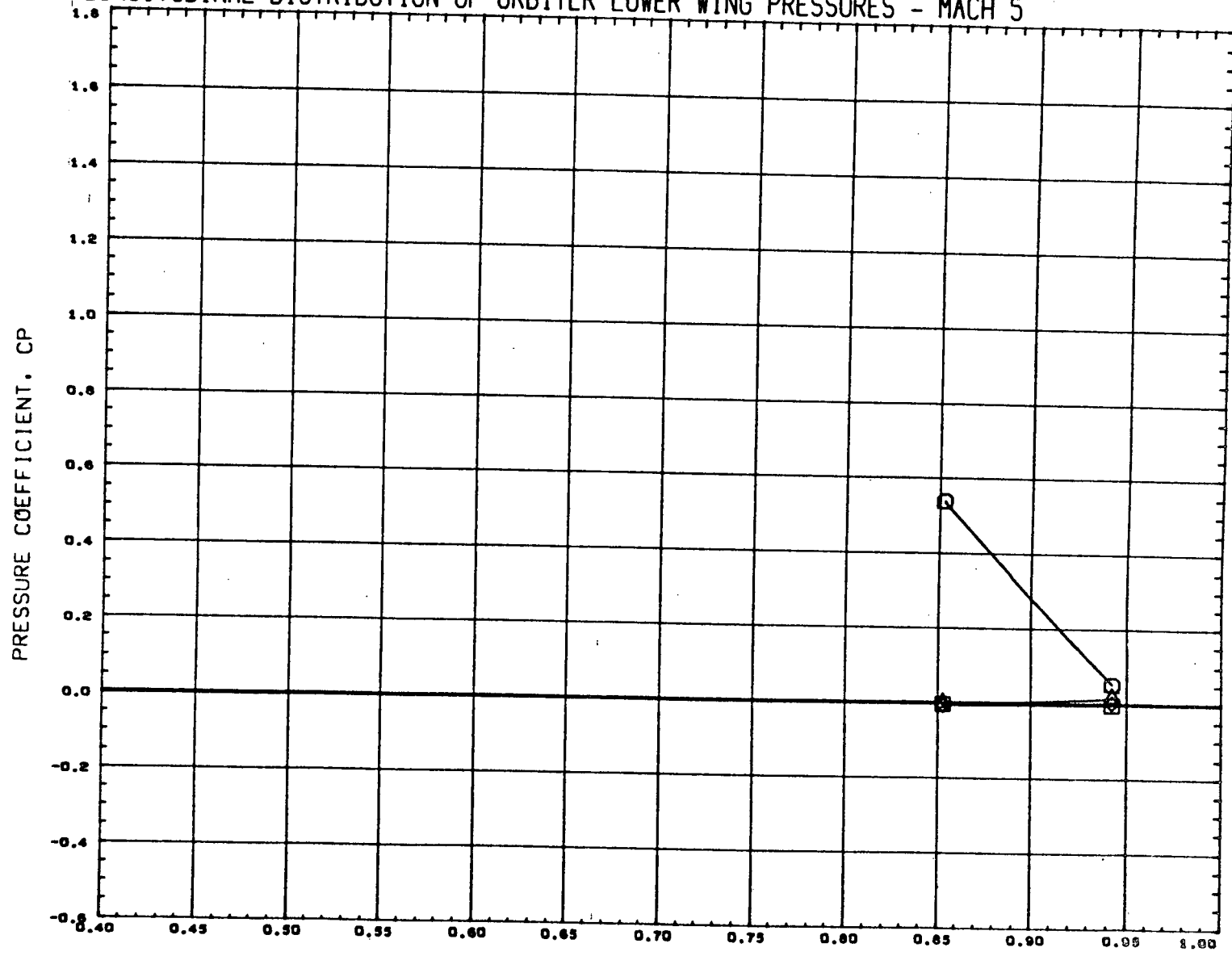


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.566	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	4.957	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.736	0.106
◇	0.041		
◻	0.103		
◻	0.164		

PARAMETRIC VALUES			
ALPHAB	4.957	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

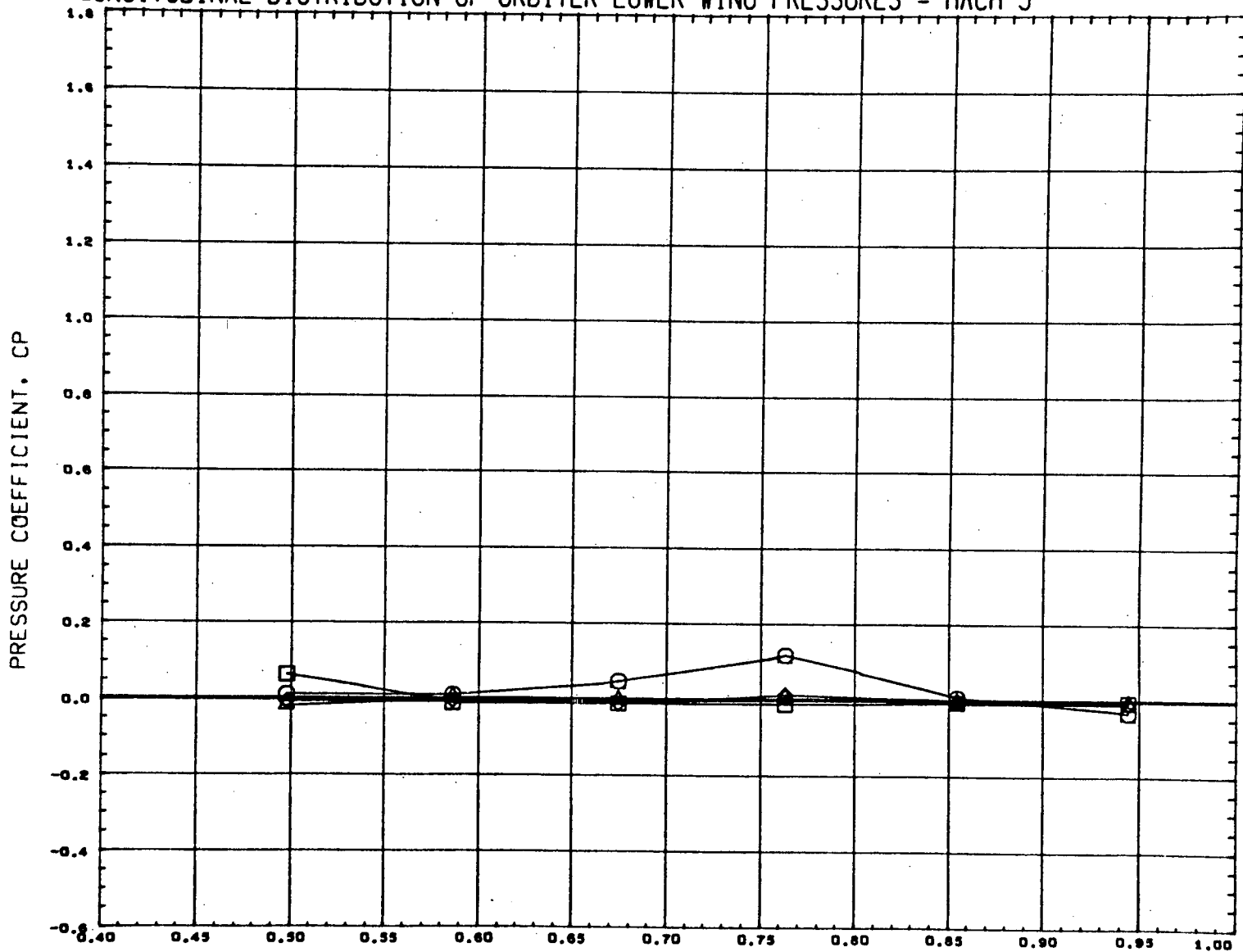
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8592•

PAGE 888

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPCW	0.000		

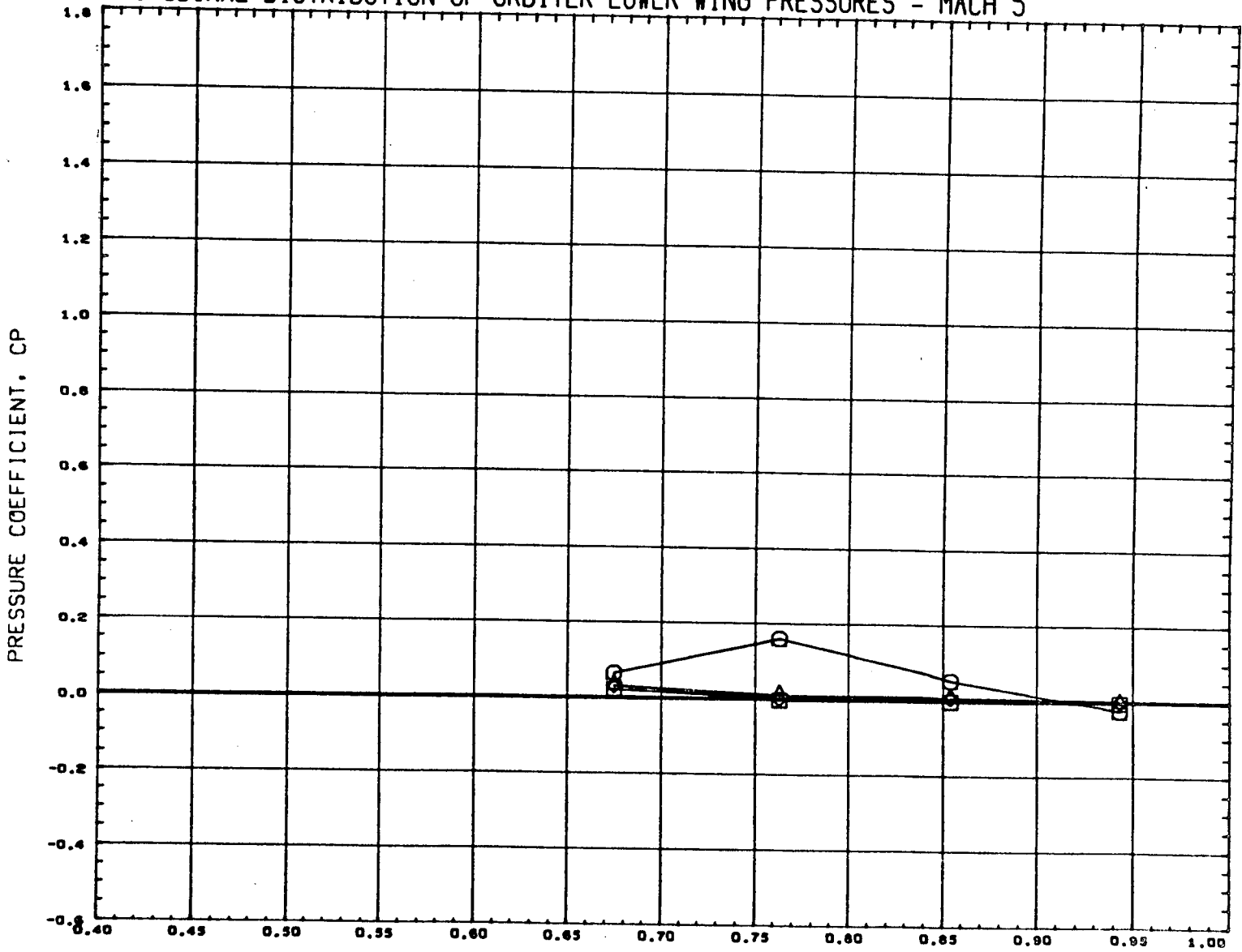
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8593•

PAGE 889

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

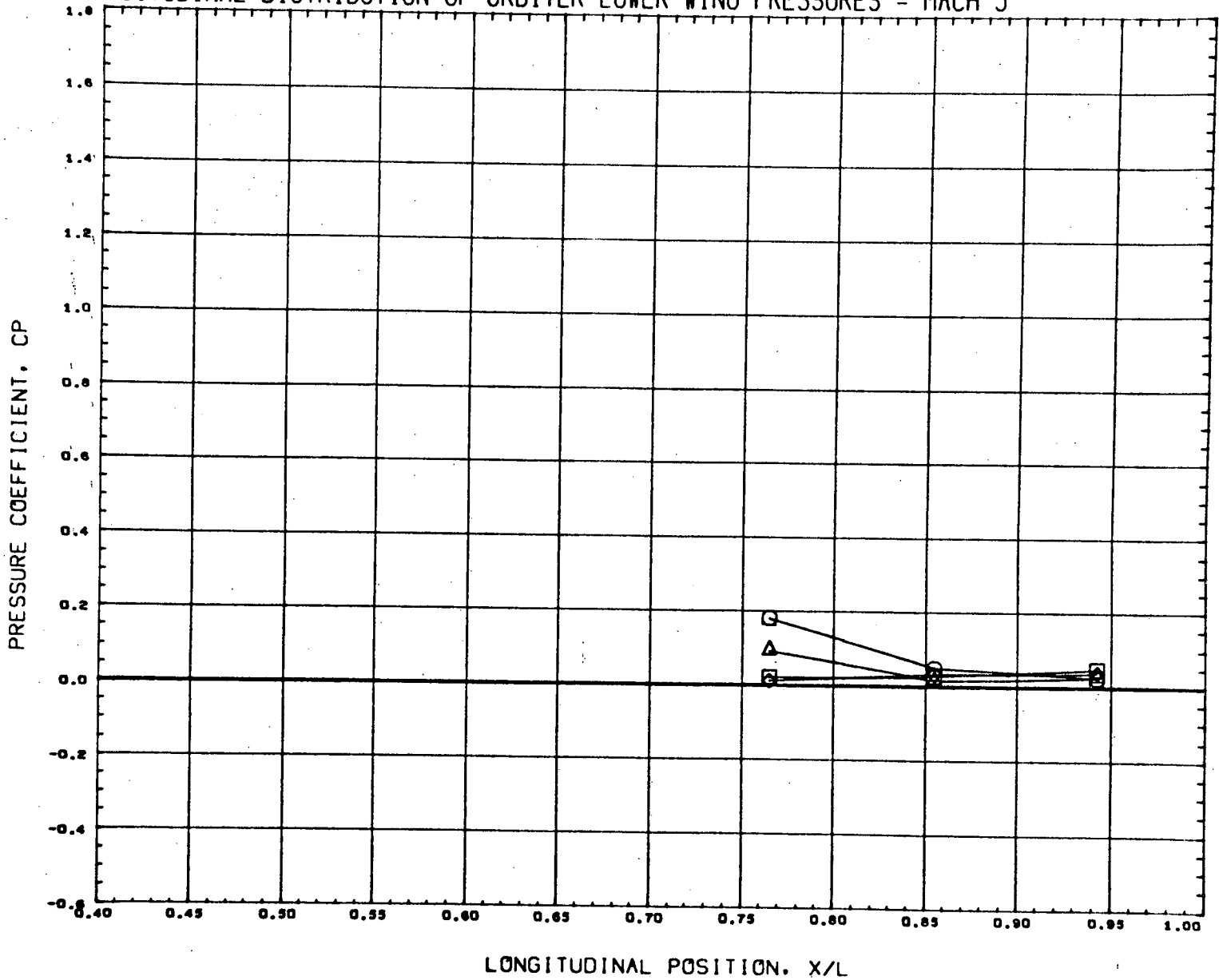
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8593•

PAGE 890

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.369	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

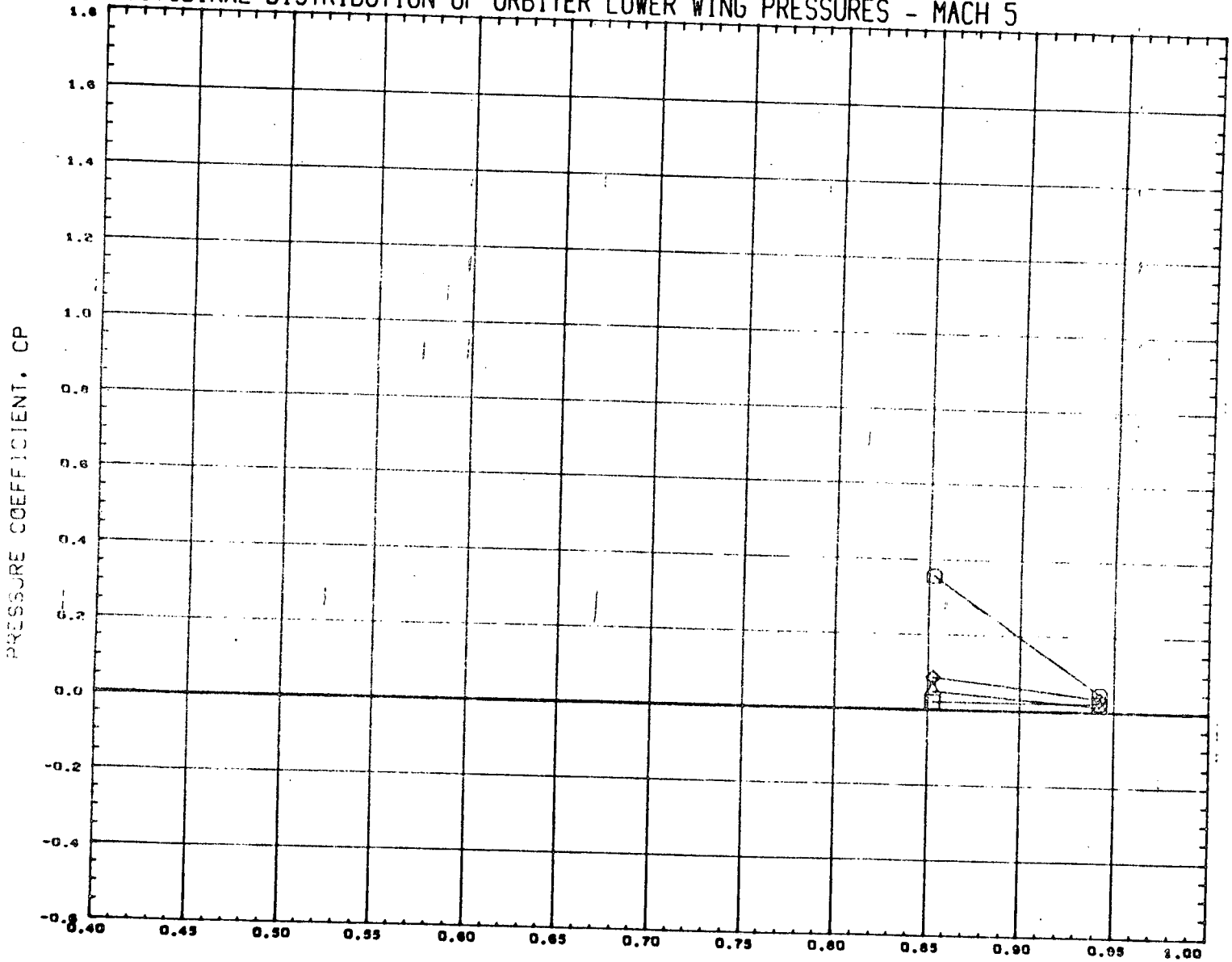
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8593•

PAGE 891

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.739	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

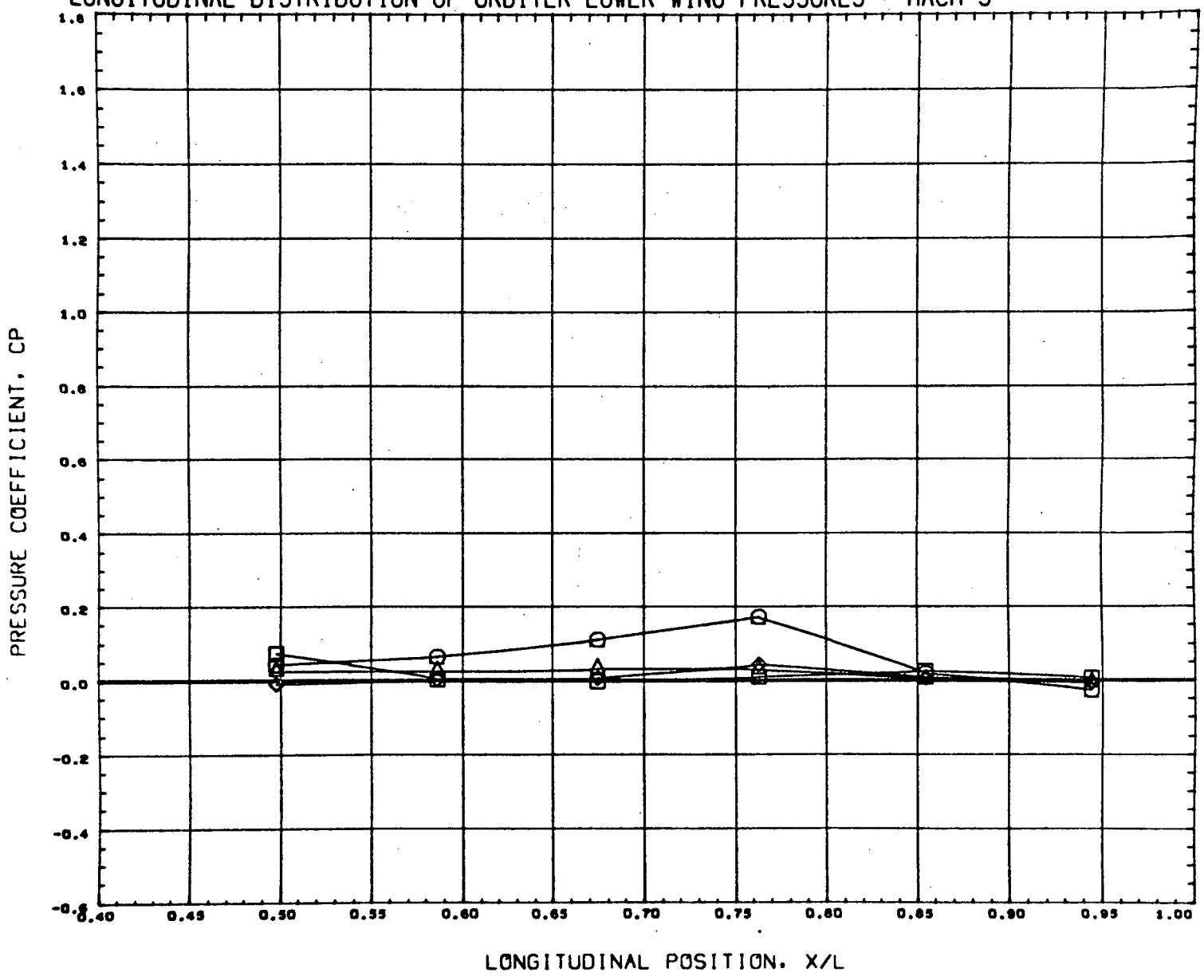
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8593•

PAGE 892

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

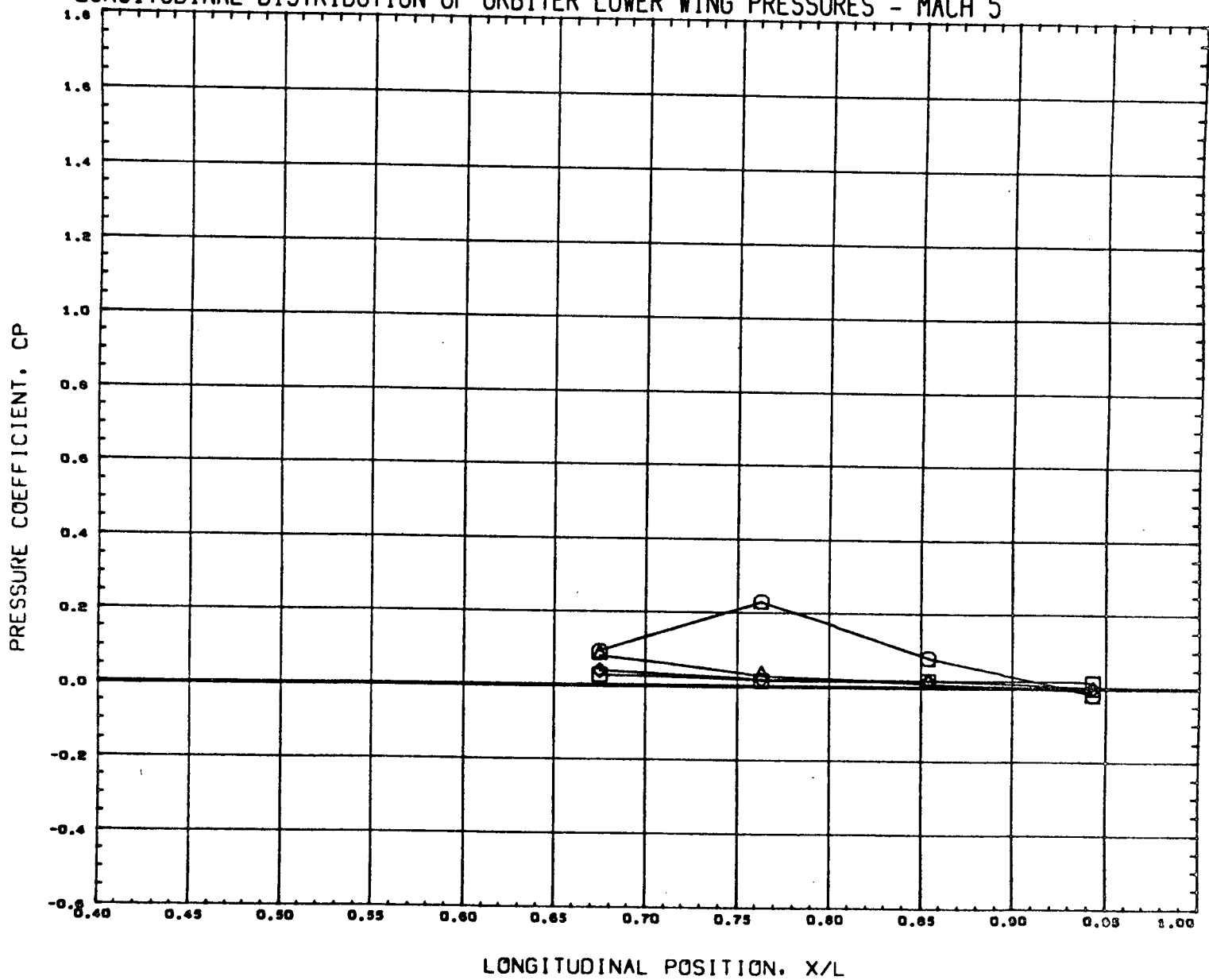


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	5.035	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	5.035	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

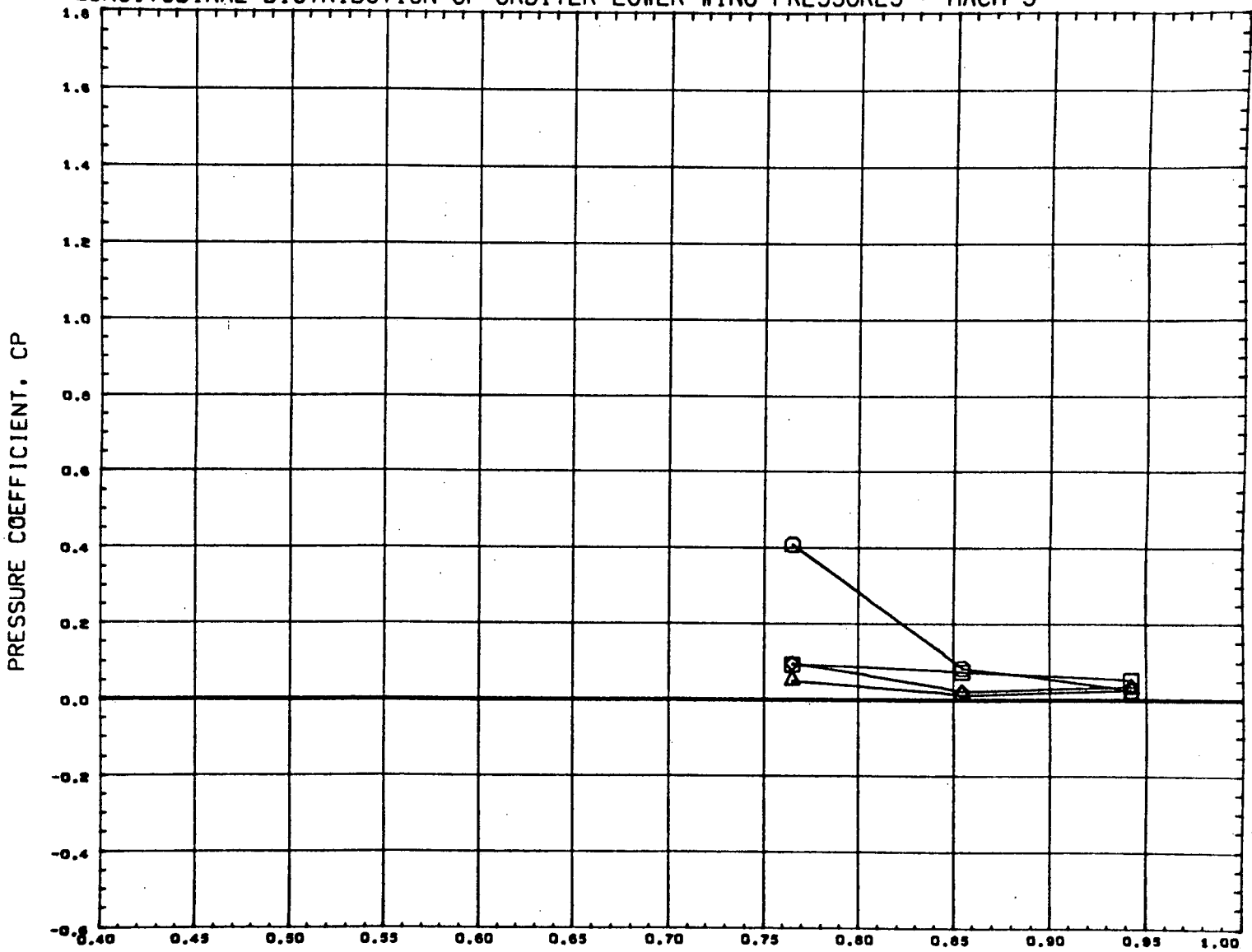
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8594•

PAGE 894

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.368	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.035	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

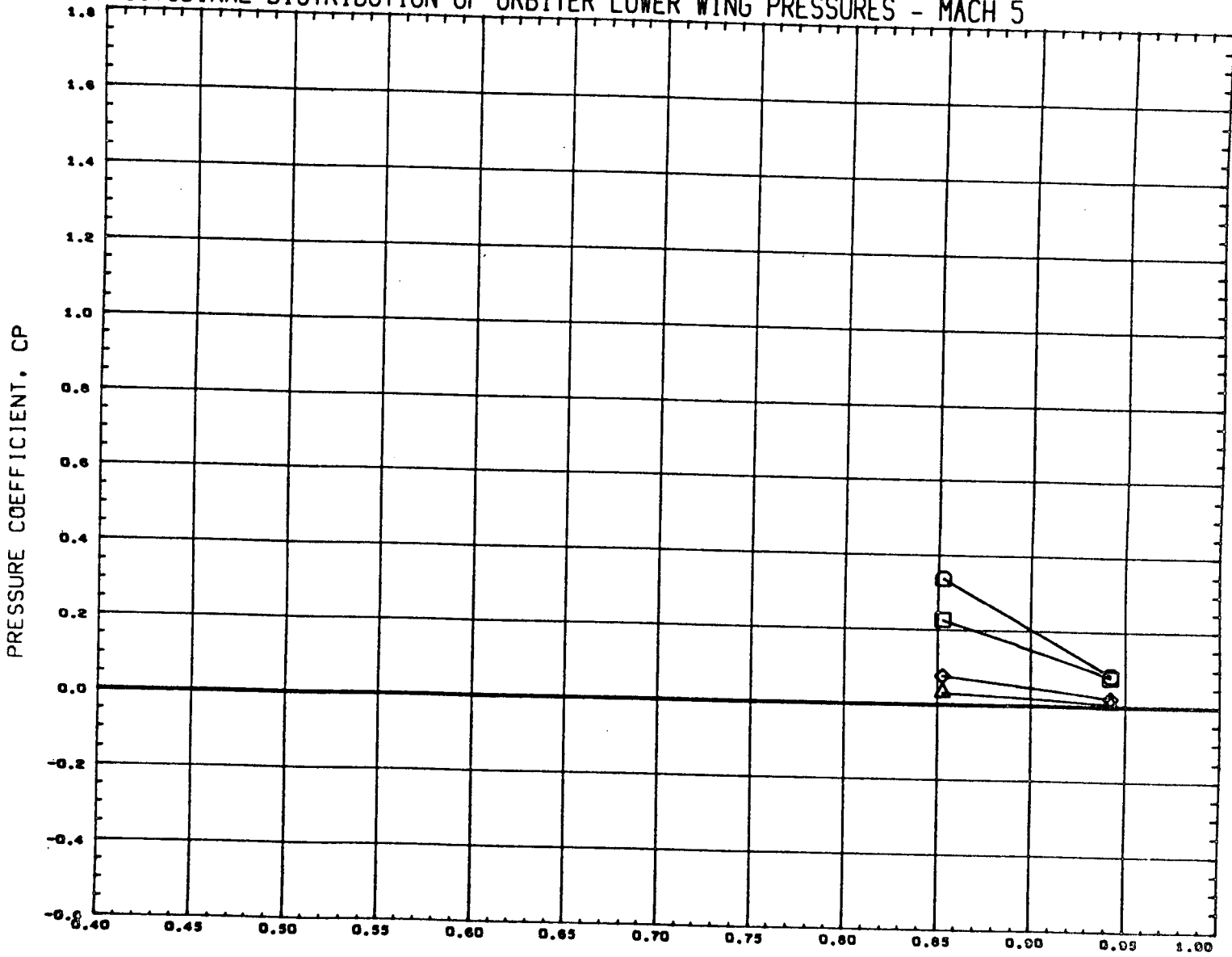
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8594•

PAGE 895

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.738	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	5.035	MACH	4.070
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

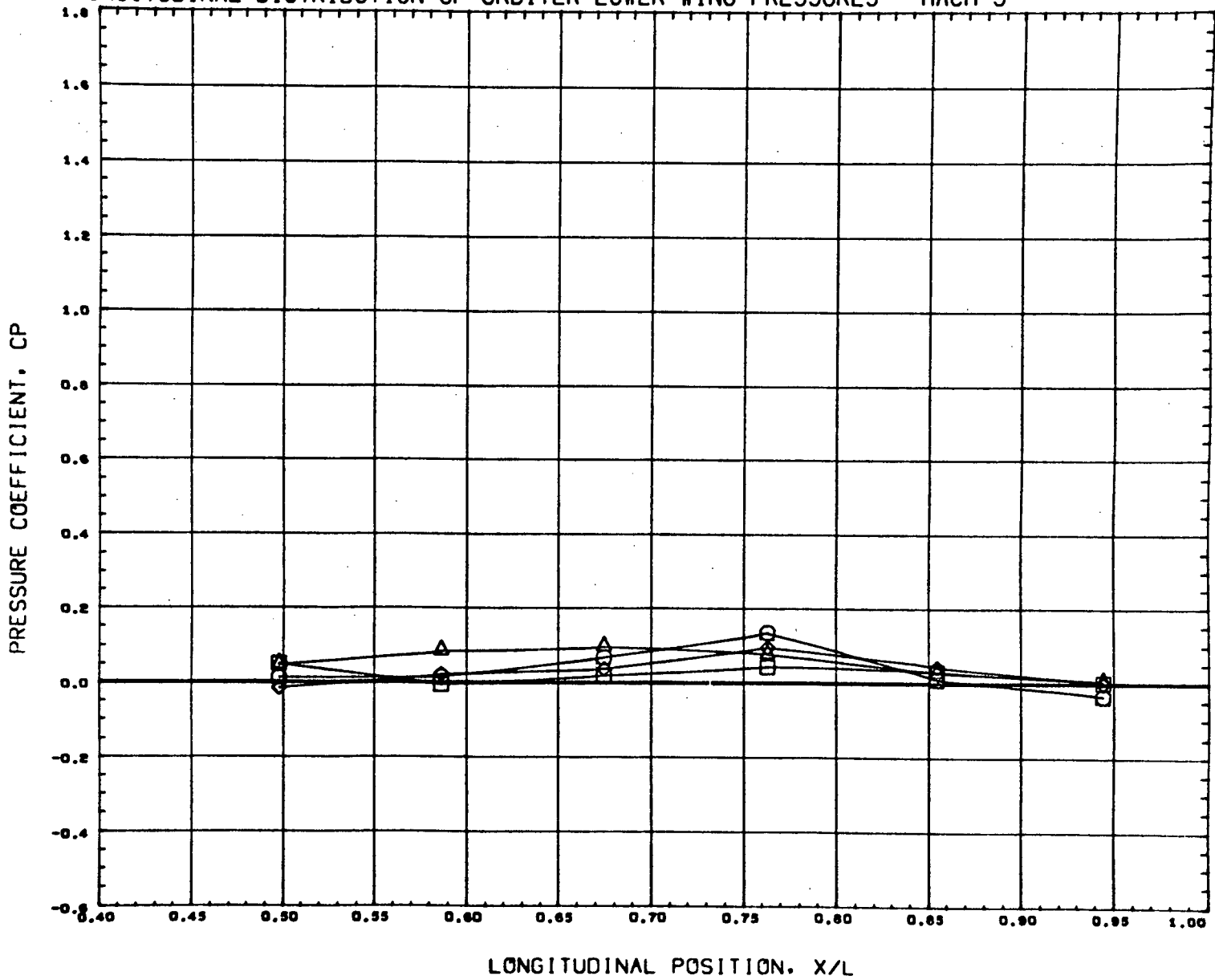
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8594•

PAGE 896

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.992	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

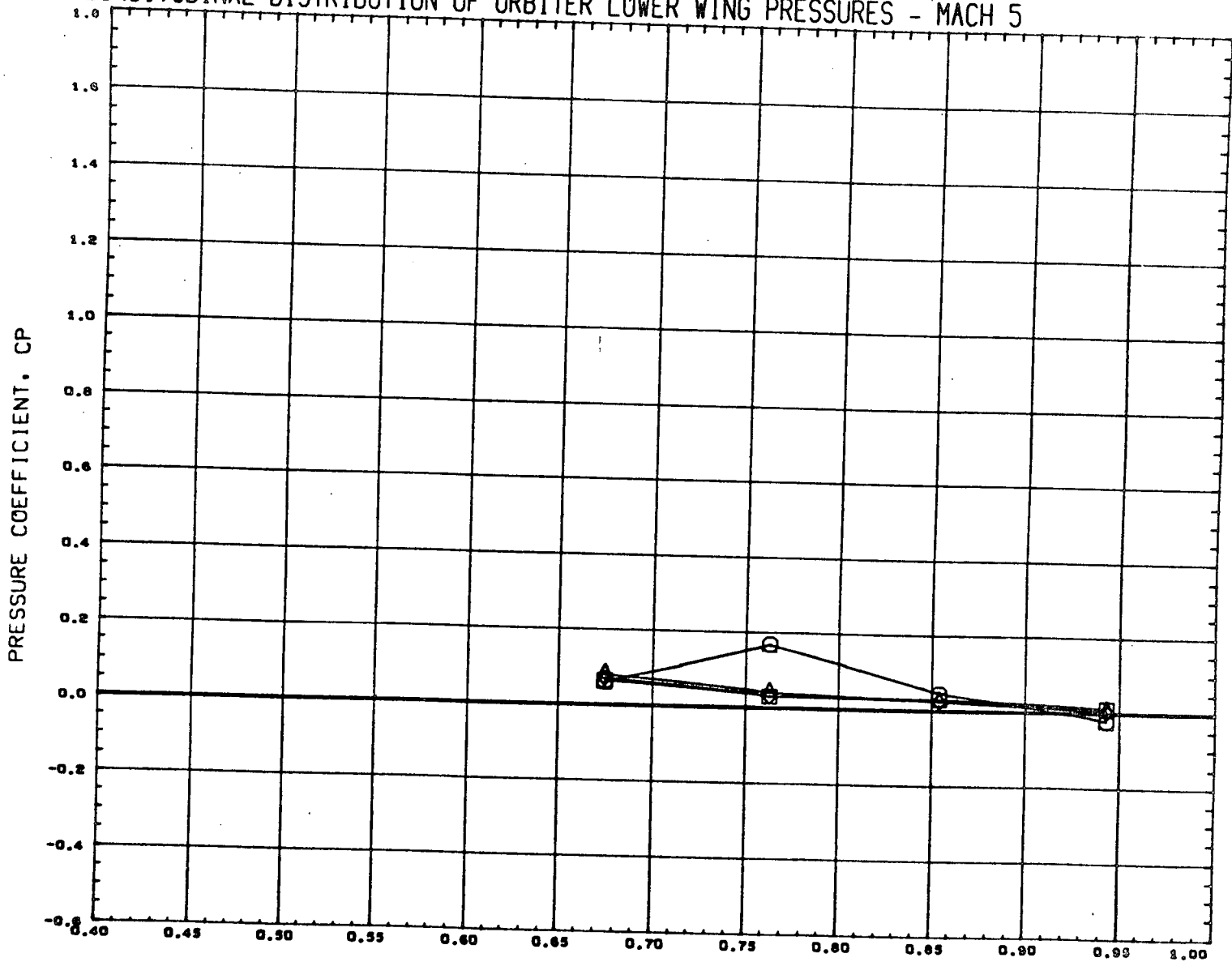
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8595•

PAGE 897

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.992	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

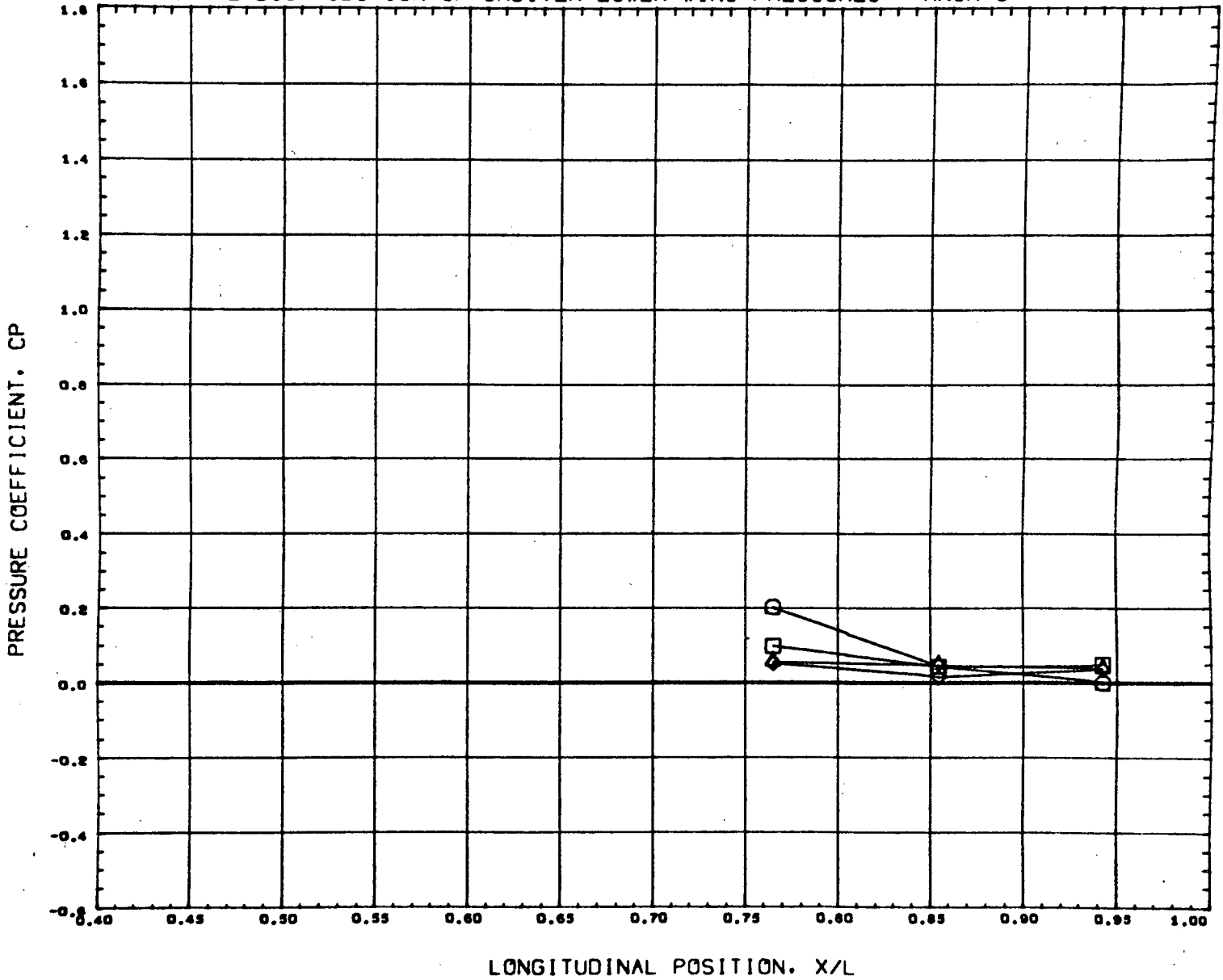
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8595•

PAGE 898

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

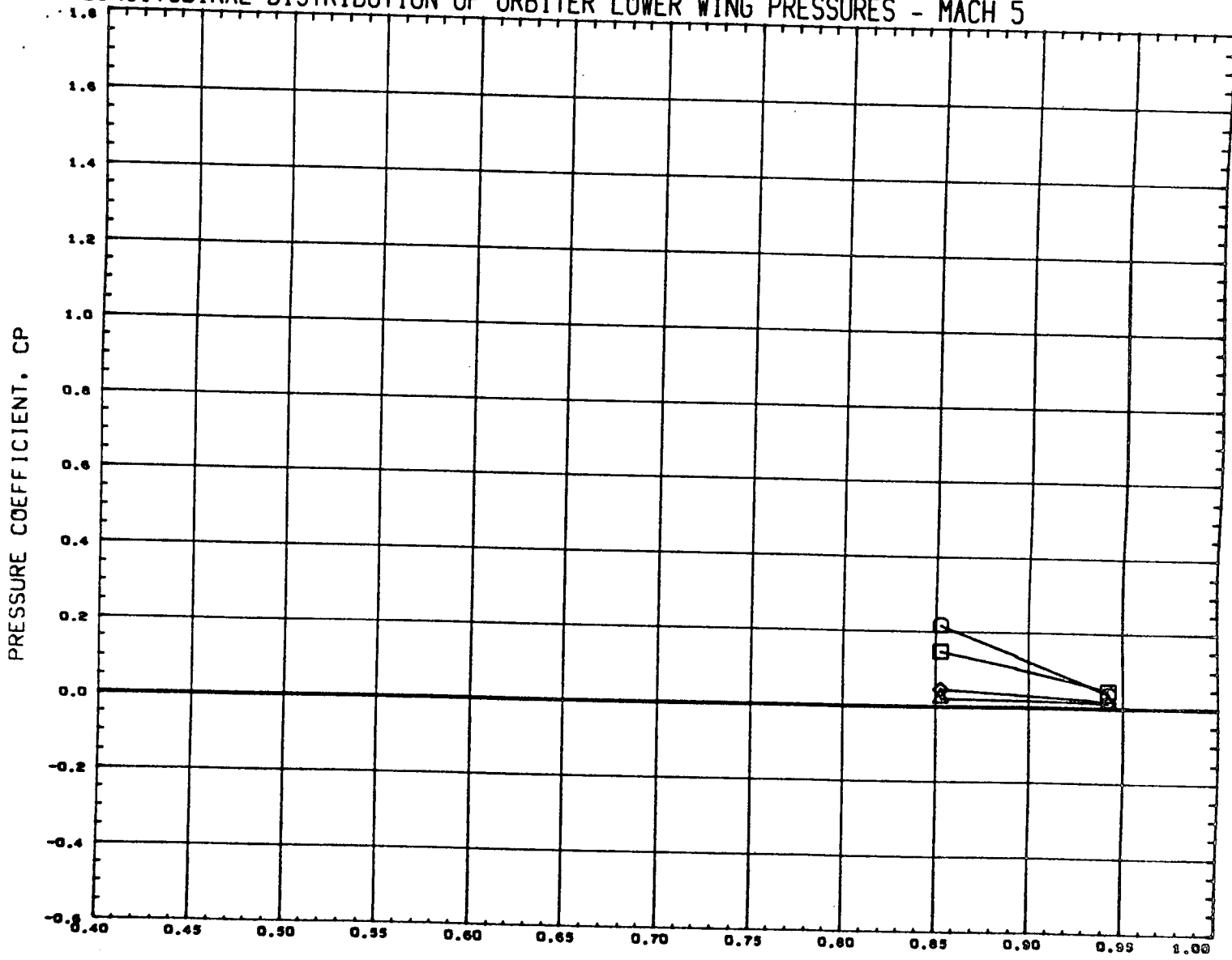


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.568	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES		
ALPHAB	9.992	MACH 4.970
ALPHA1	0.000	ORBPOW 0.000
BSTPOW	0.000	

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

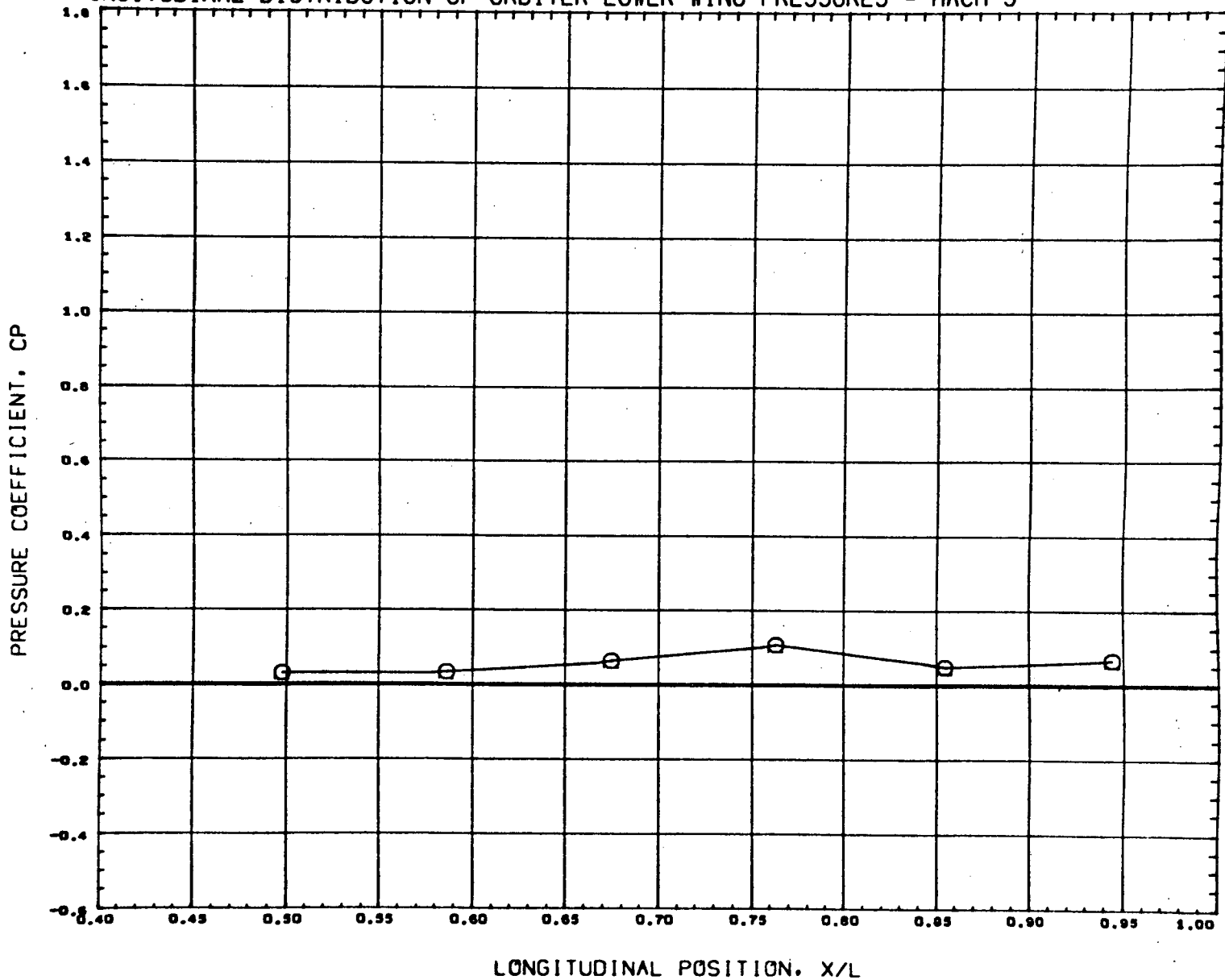


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.738	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.992	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ - 0.179 0.230 0.106

PARAMETRIC VALUES
 ALPHAB - 9.980 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 100.000

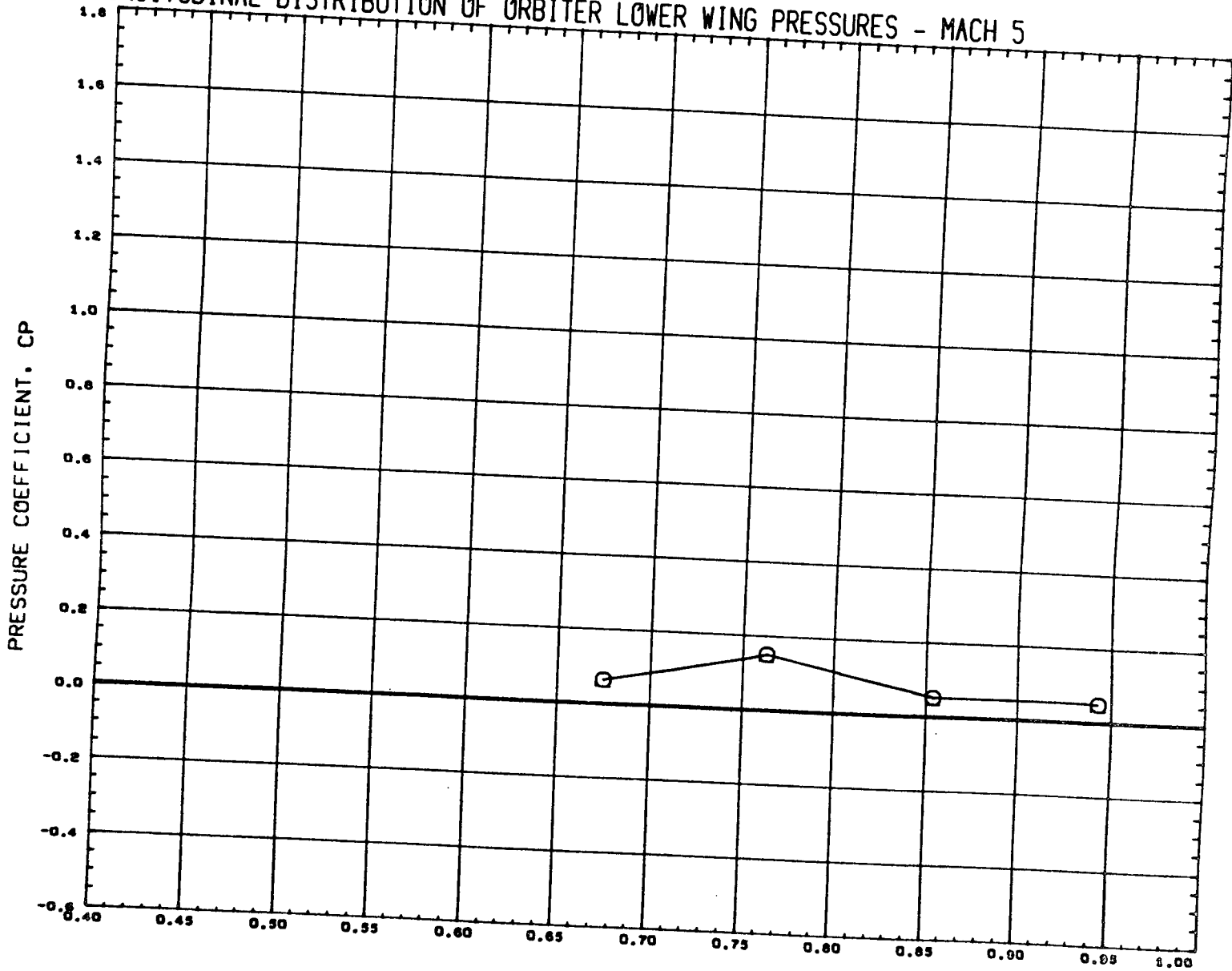
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8601•

PAGE 901

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ - 0.179 0.399 0.106

PARAMETRIC VALUES
 ALPHAB - 9.980 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 100.000

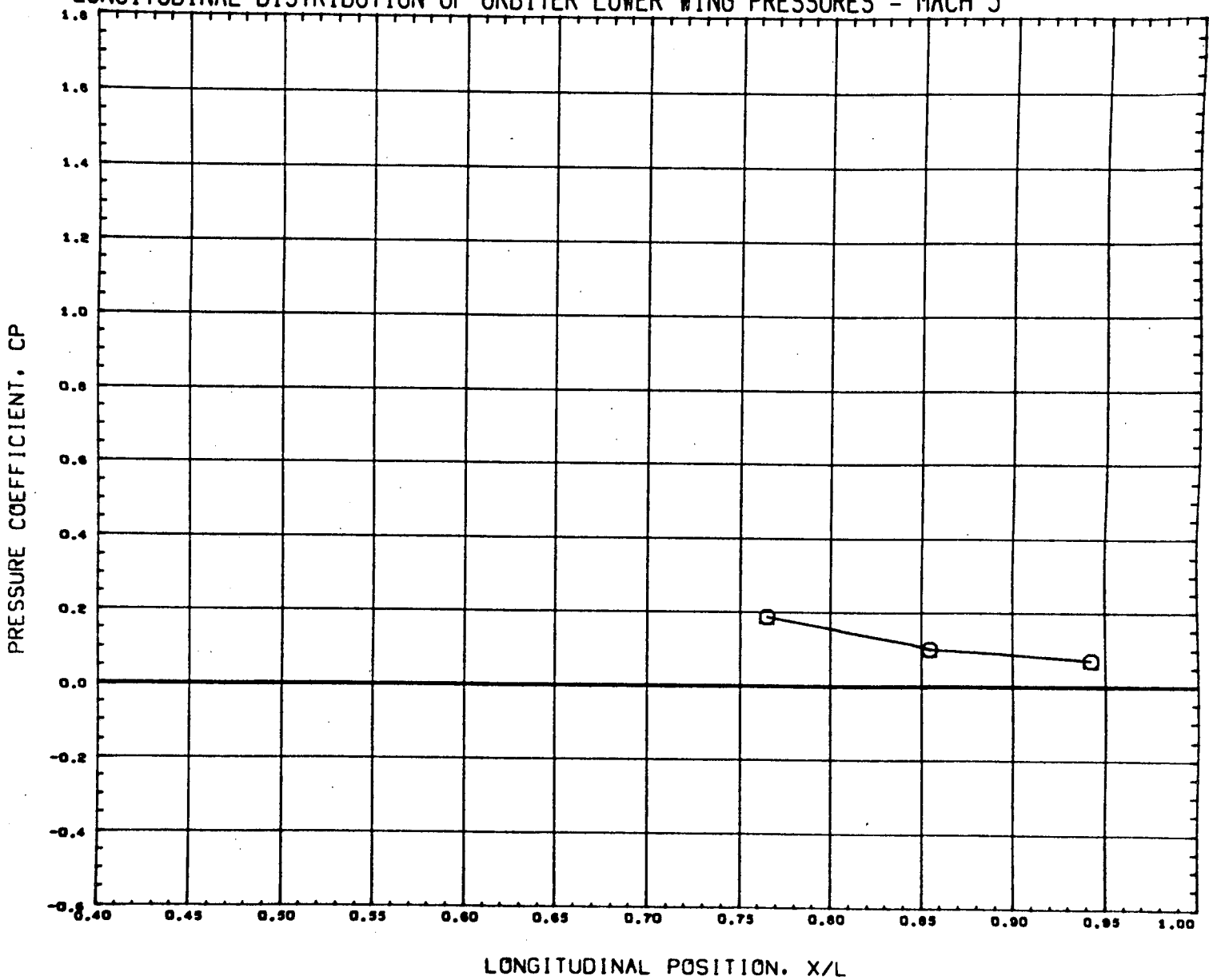
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8601•

PAGE 902

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ - 0.179 0.566 0.106

PARAMETRIC VALUES
 ALPHAB - 9.980 MACH 4.970
 ALPHA1 0.000 ORBPOW 100.000
 SSTPOW 100.000

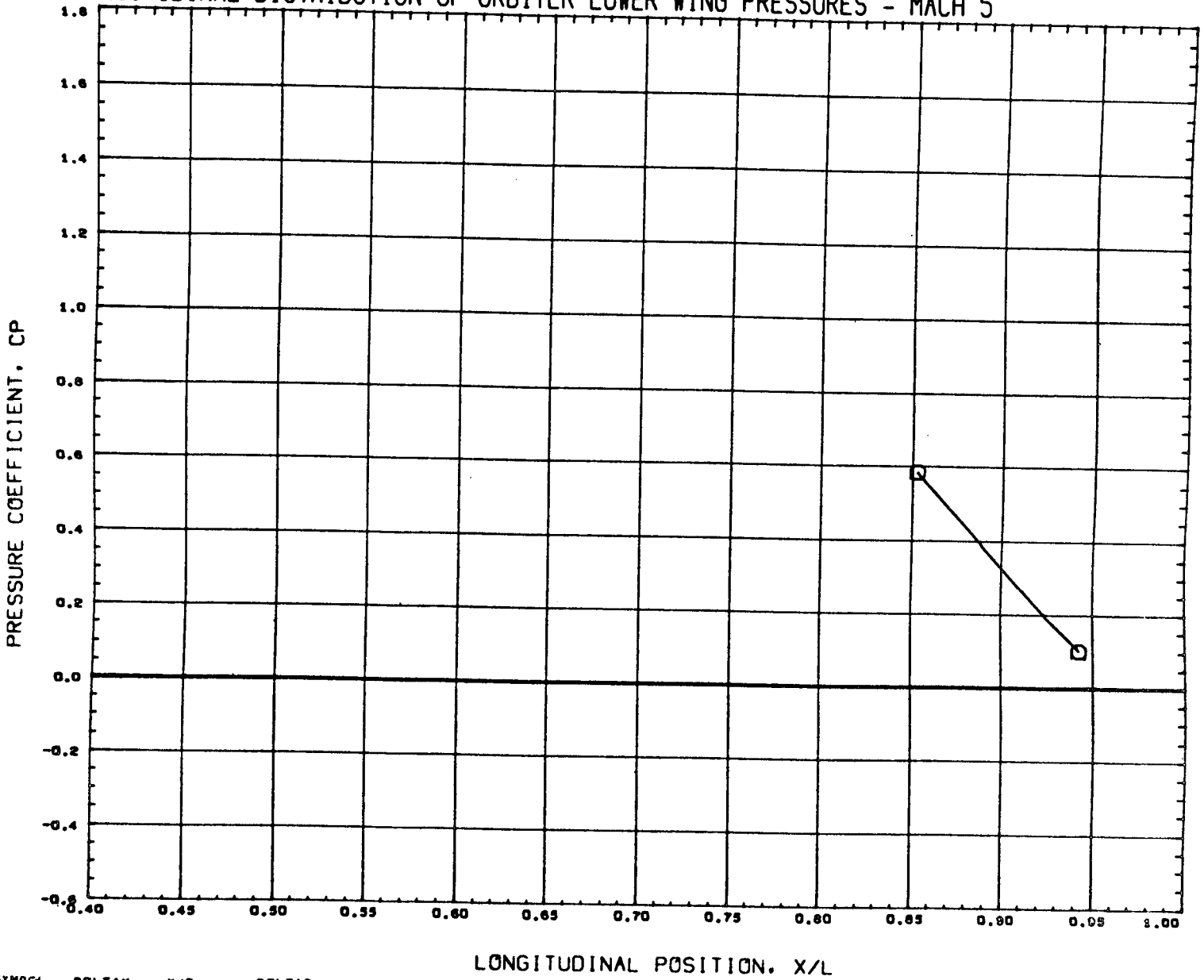
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8601•

PAGE 903

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.179	0.738	0.106

PARAMETRIC VALUES			
ALPHAB	- 9.980	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	100.000		

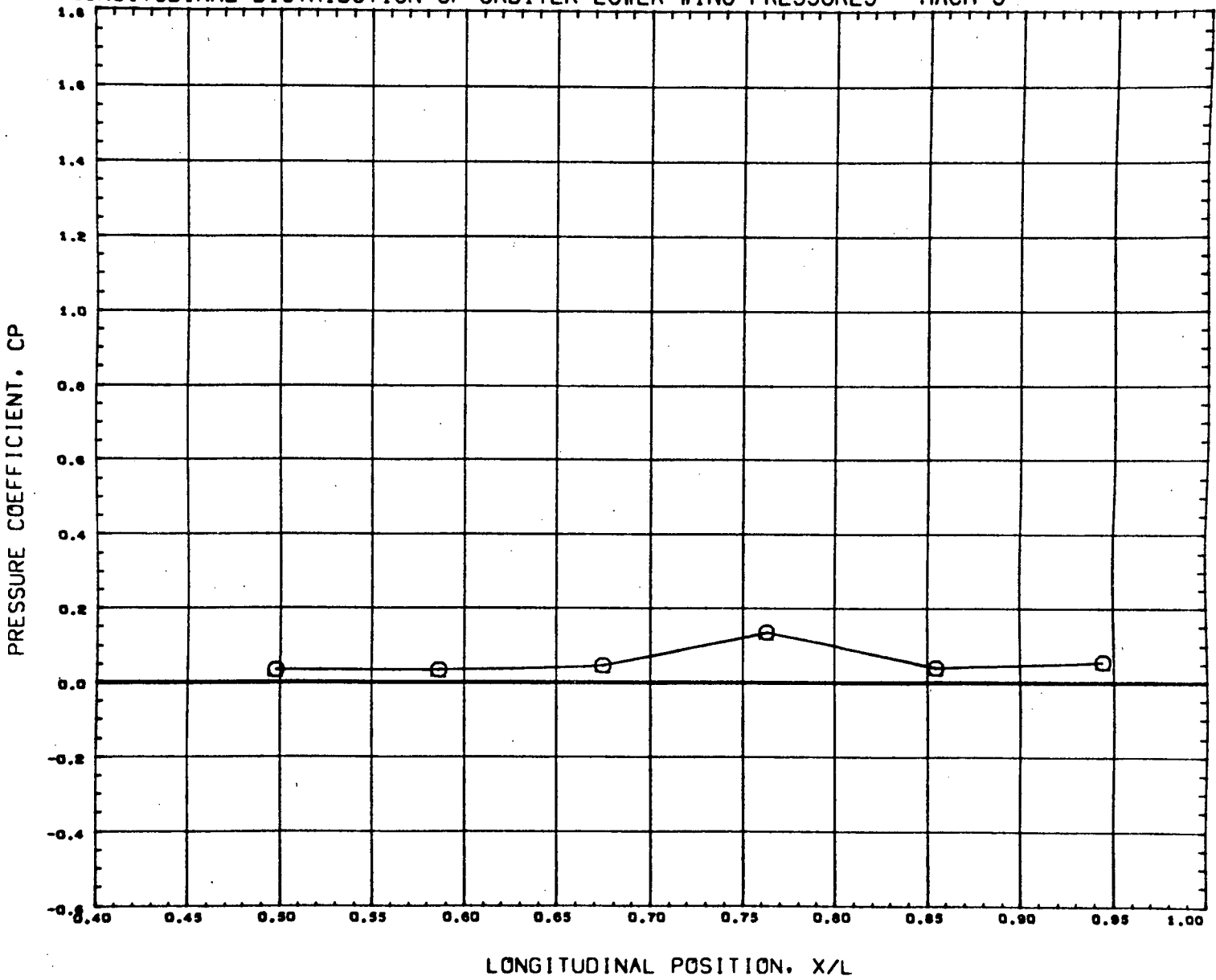
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8601•

PAGE 904

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106

PARAMETRIC VALUES			
ALPHAB	- 4.960	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	100.000		

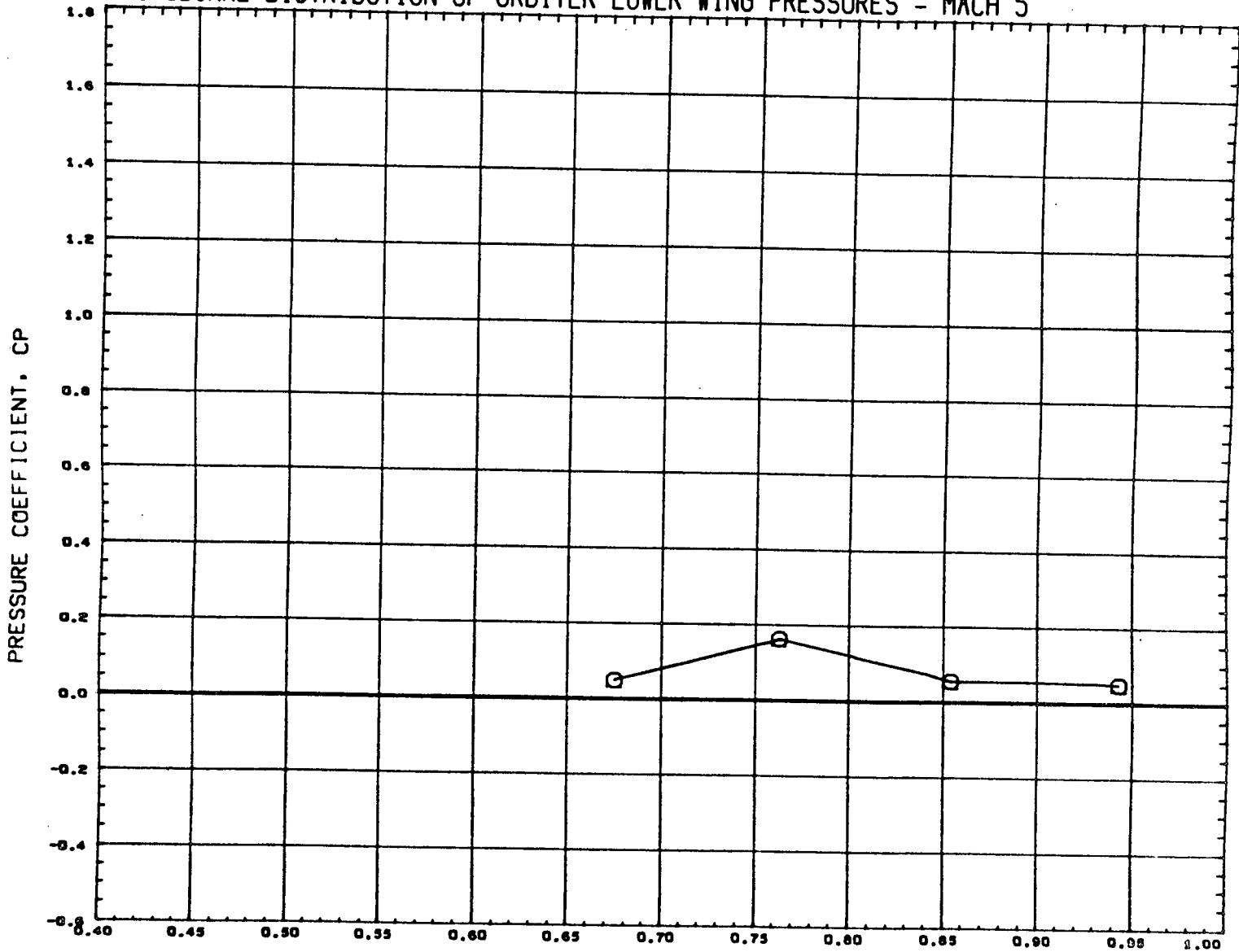
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8602•

PAGE 905

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106

PARAMETRIC VALUES			
ALPHAB	4.960	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	100.000		

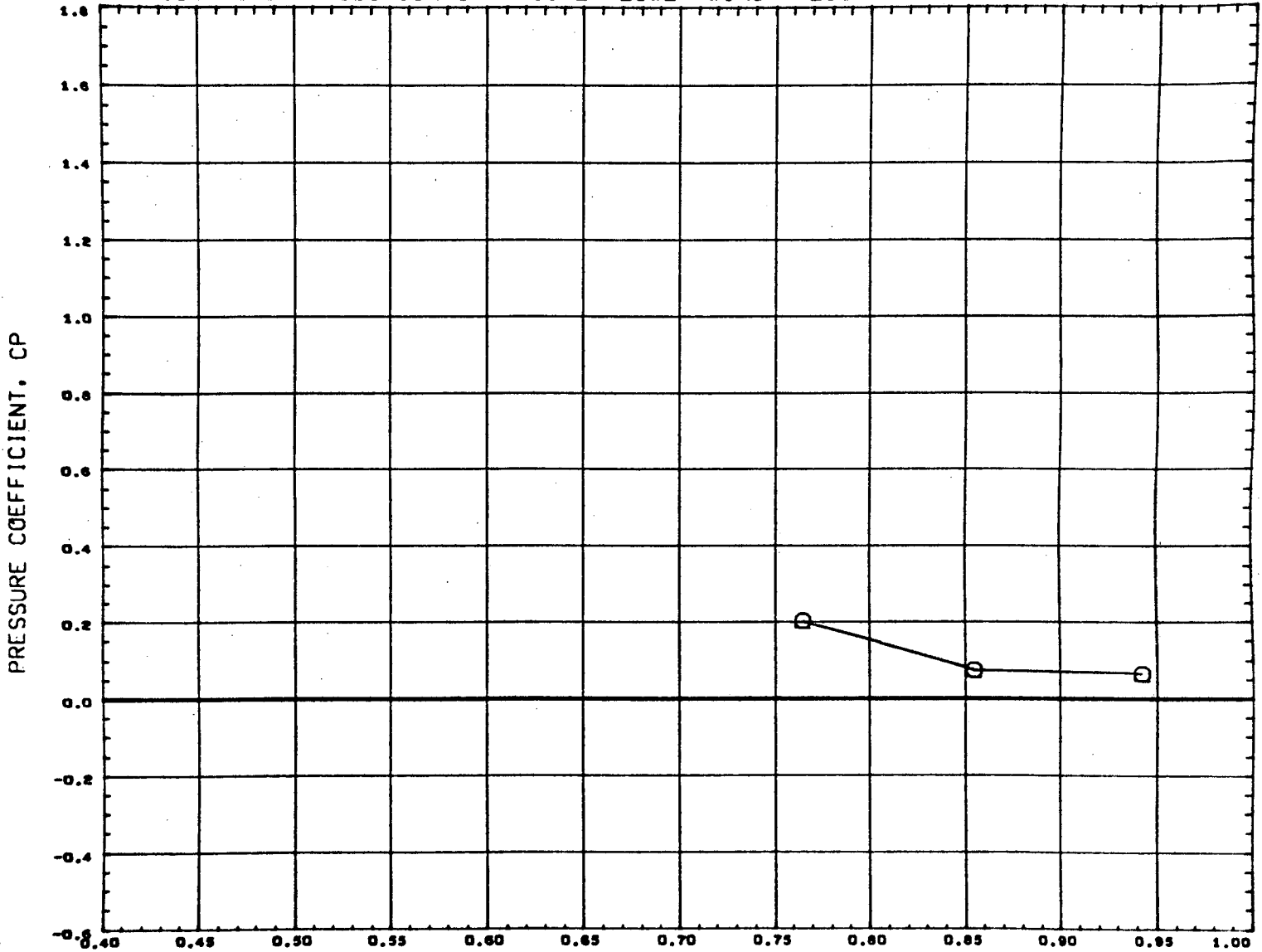
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8602•

PAGE 906

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.368	0.106

PARAMETRIC VALUES			
ALPHAB	4.960	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	100.000		

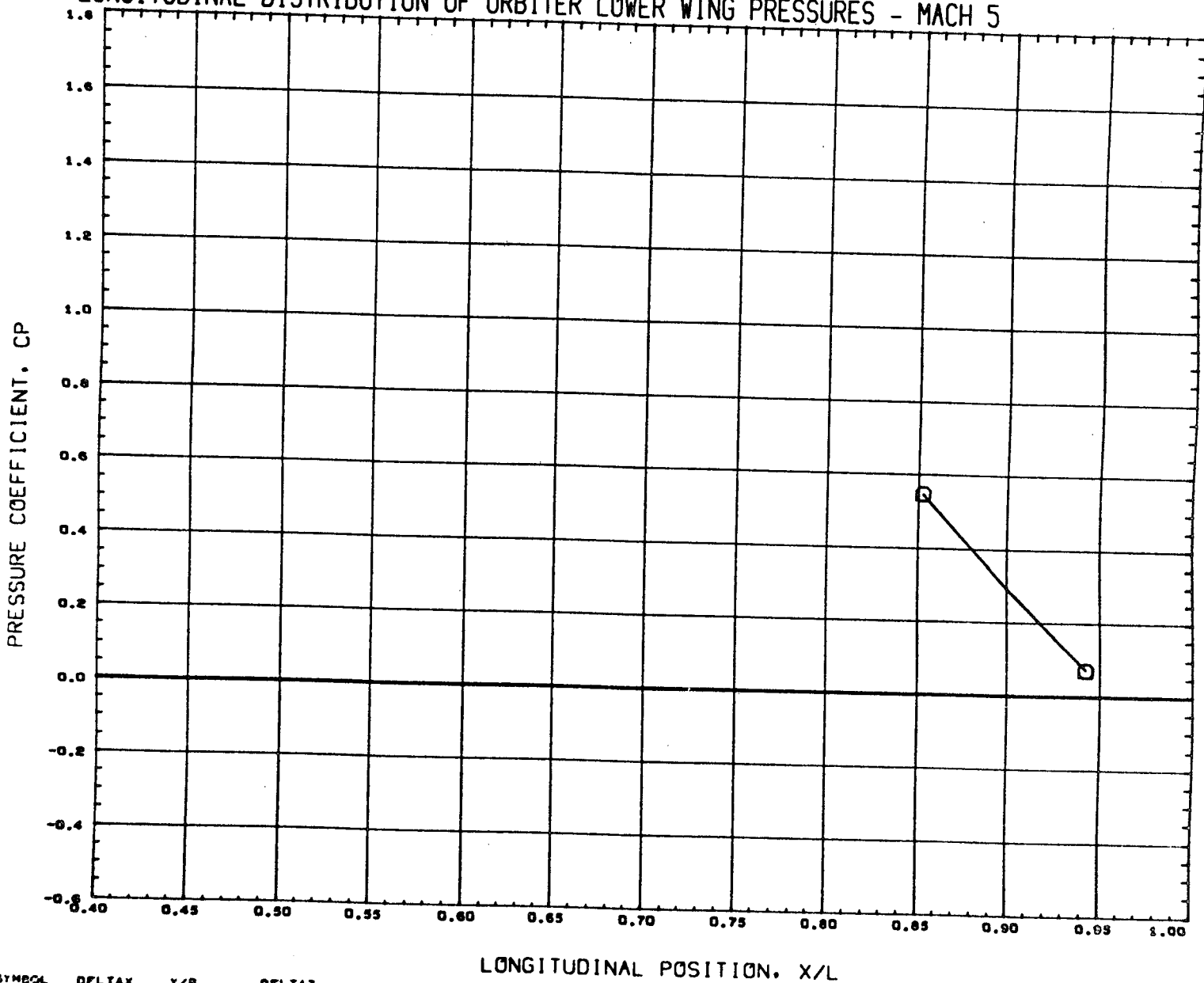
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8602•

PAGE 907

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	- 0.179	0.738	0.106

PARAMETRIC VALUES			
ALPHAB	- 4.960	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	100.000		

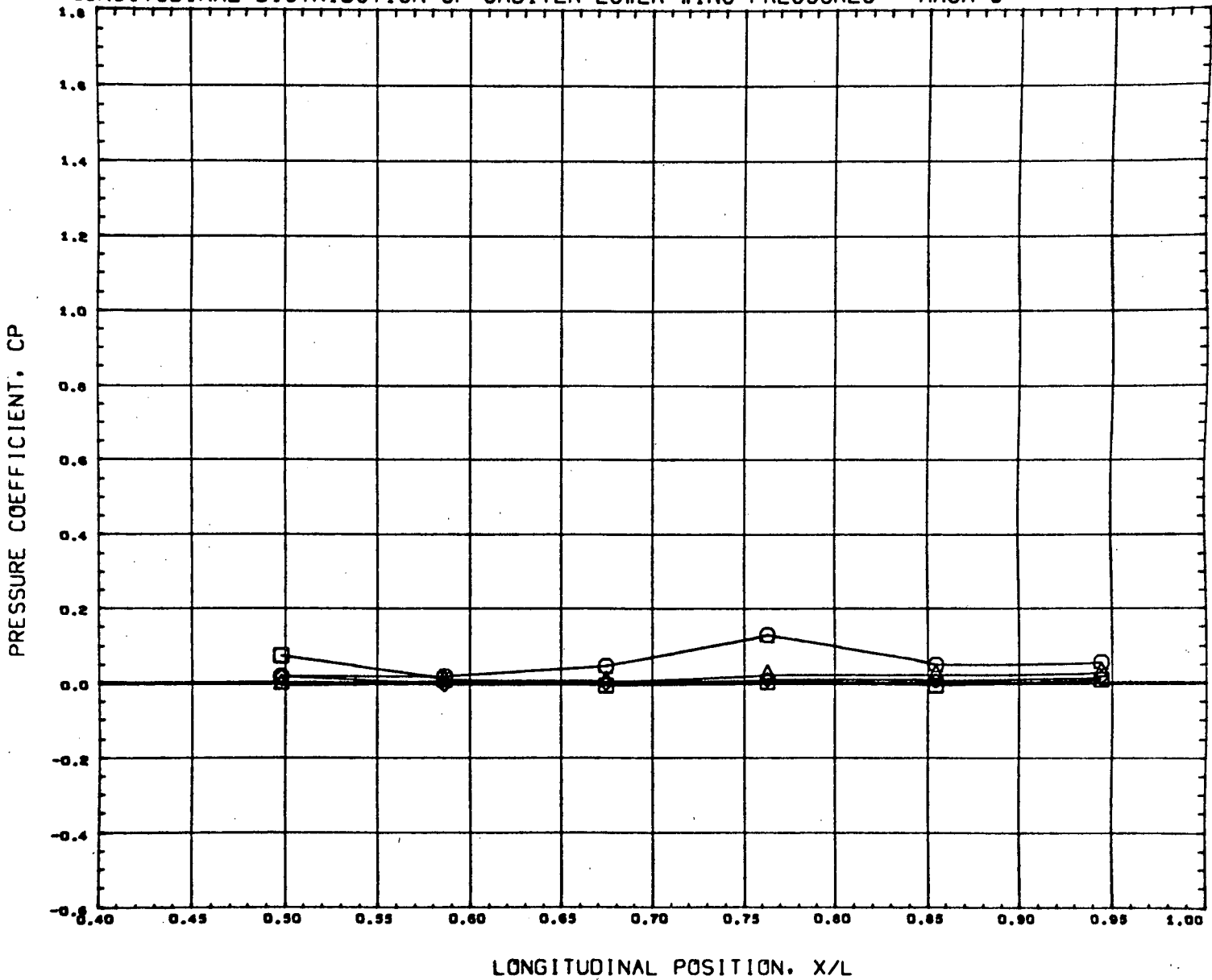
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8602•

PAGE 908

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHAT	0.000	ORBPOW	100.000
BSTPOW	100.000		

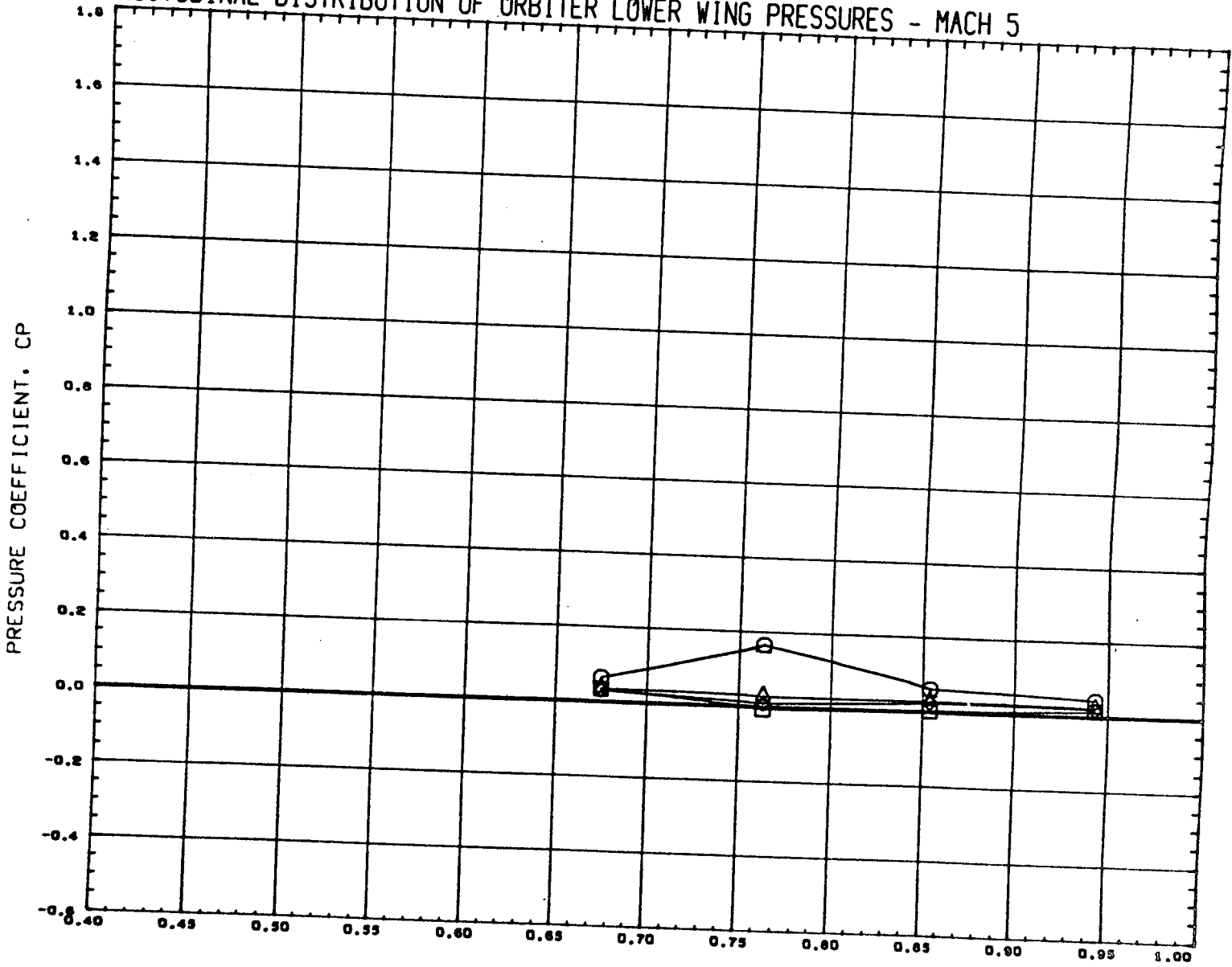
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8603•

PAGE 909

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	100.000		

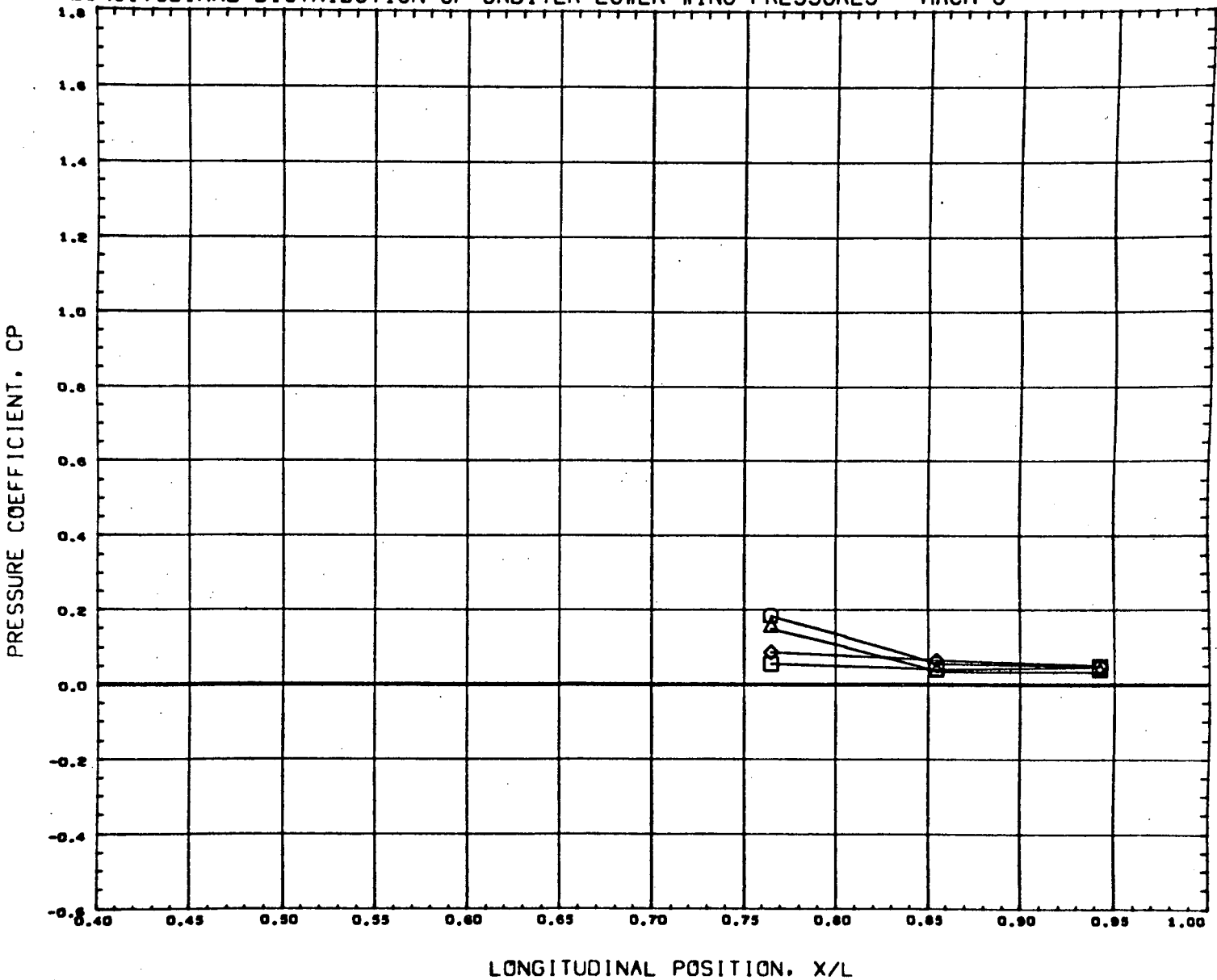
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8603•

PAGE 910

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

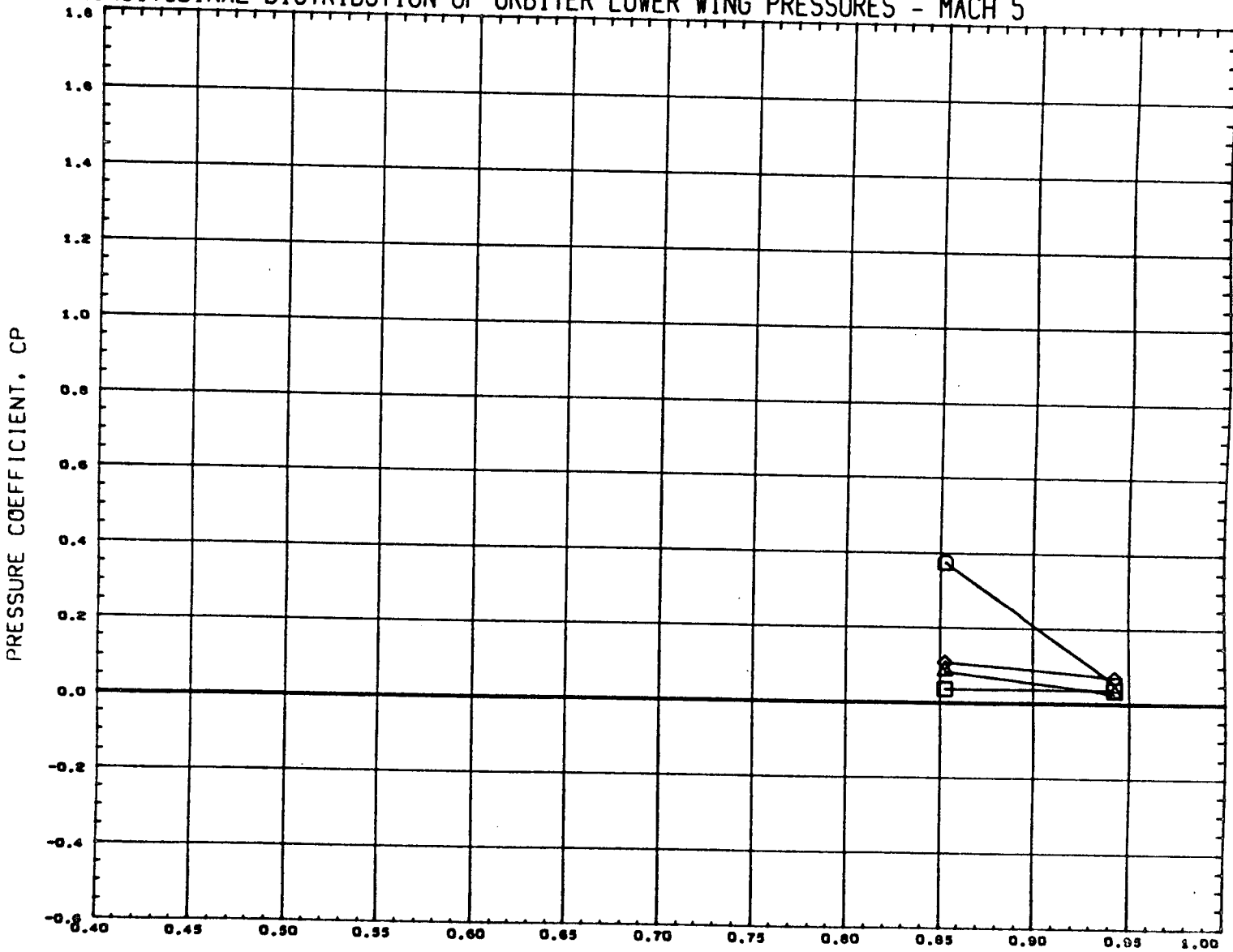


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.569	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.739	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA1	0.000	ORSPOW	100.000
BSTPOW	100.000		

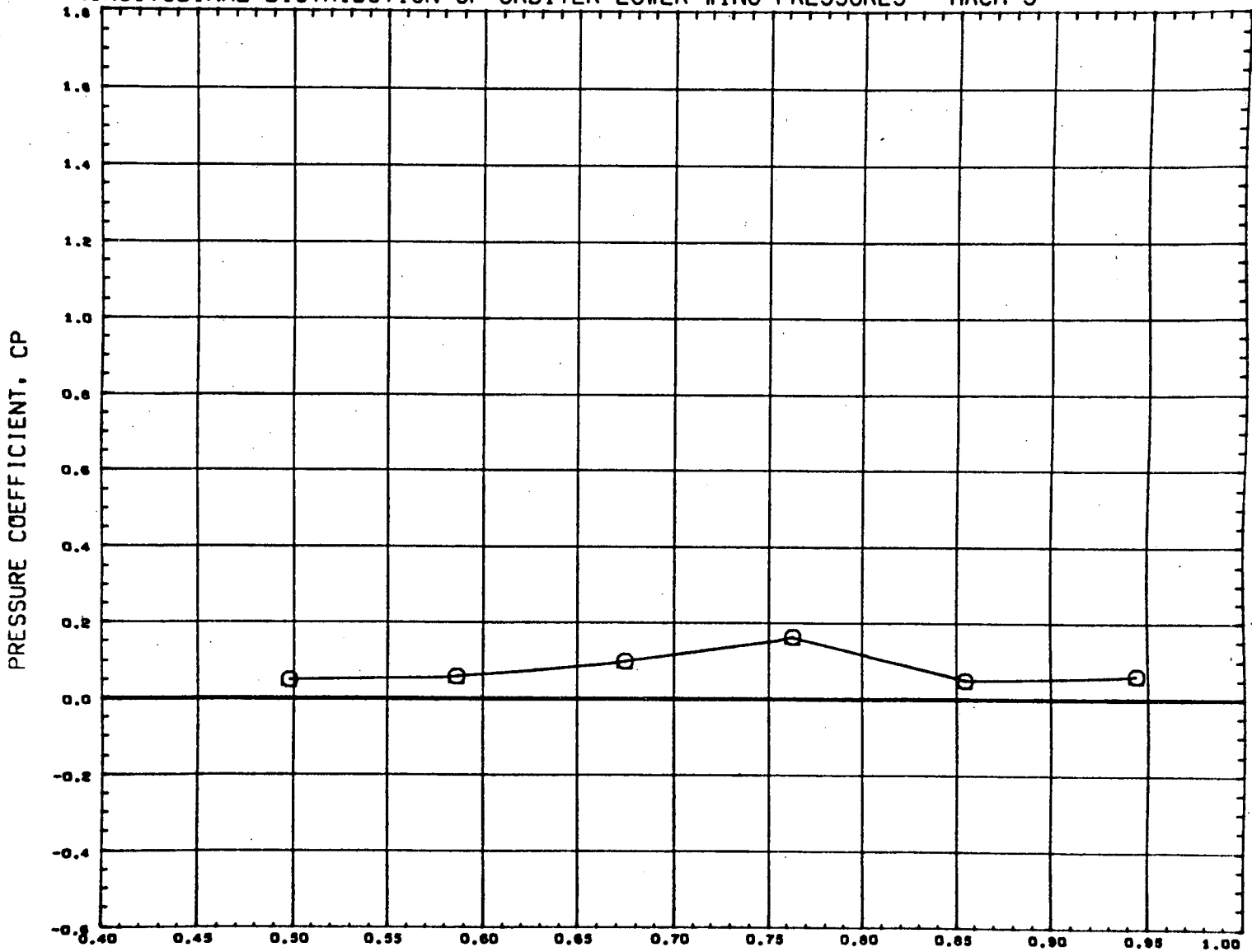
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8603•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106

PARAMETRIC VALUES			
ALPHAB	5.040	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	100.000		

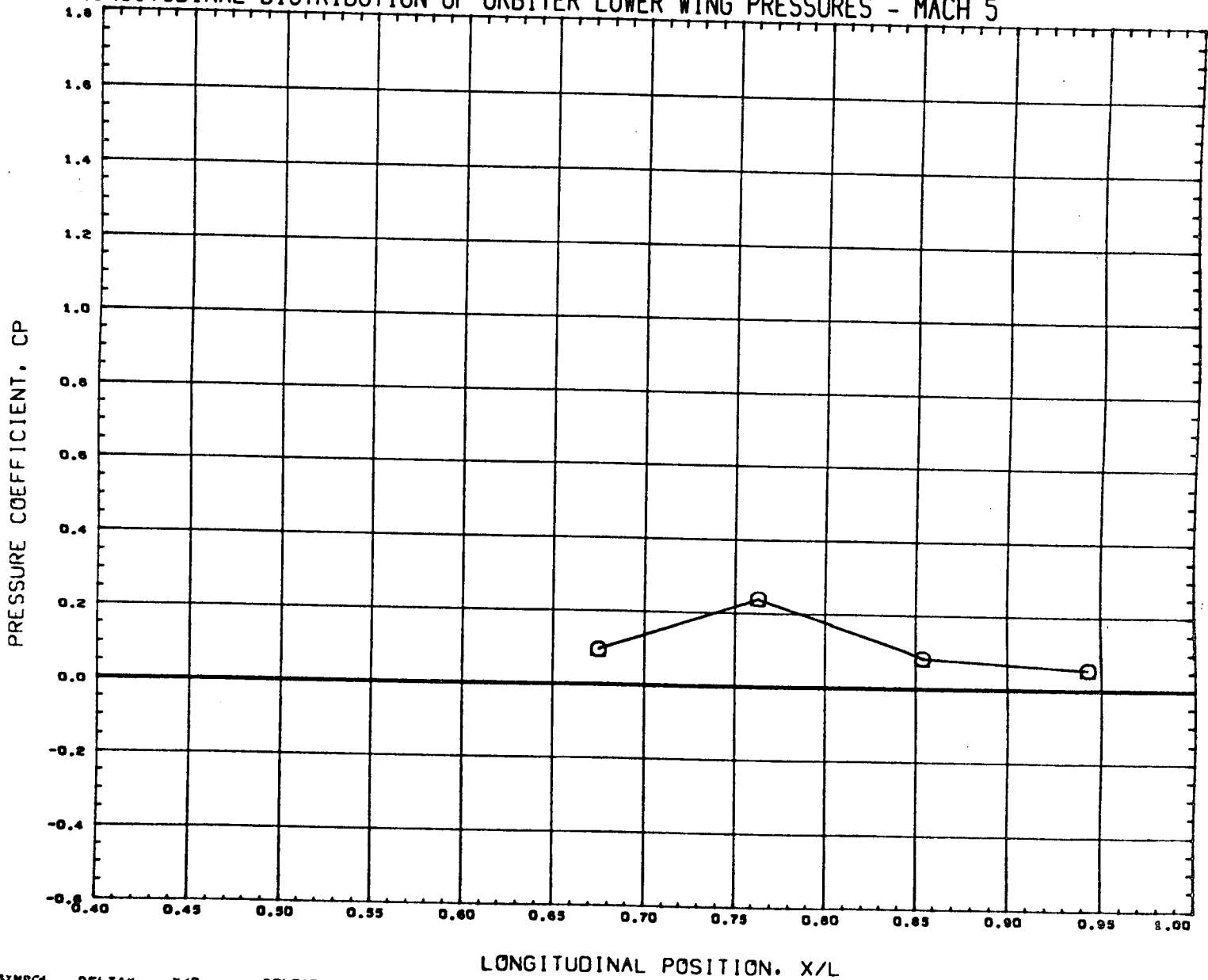
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8604•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106

PARAMETRIC VALUES			
ALPHAB	5.040	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	100.000		

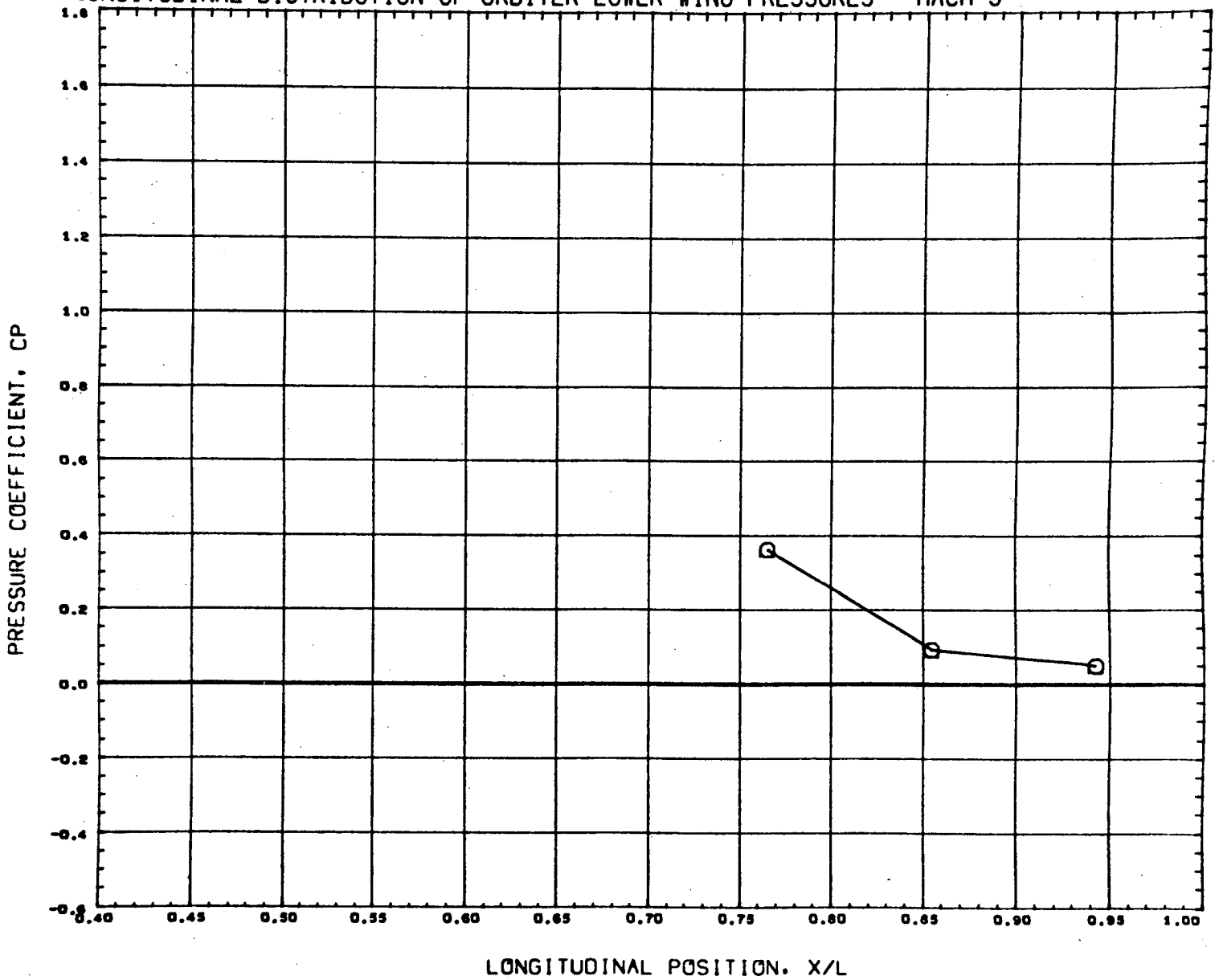
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8604•

PAGE 914

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ - 0.179 0.366 0.106

PARAMETRIC VALUES
 ALPHAB 3.040 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 100.000

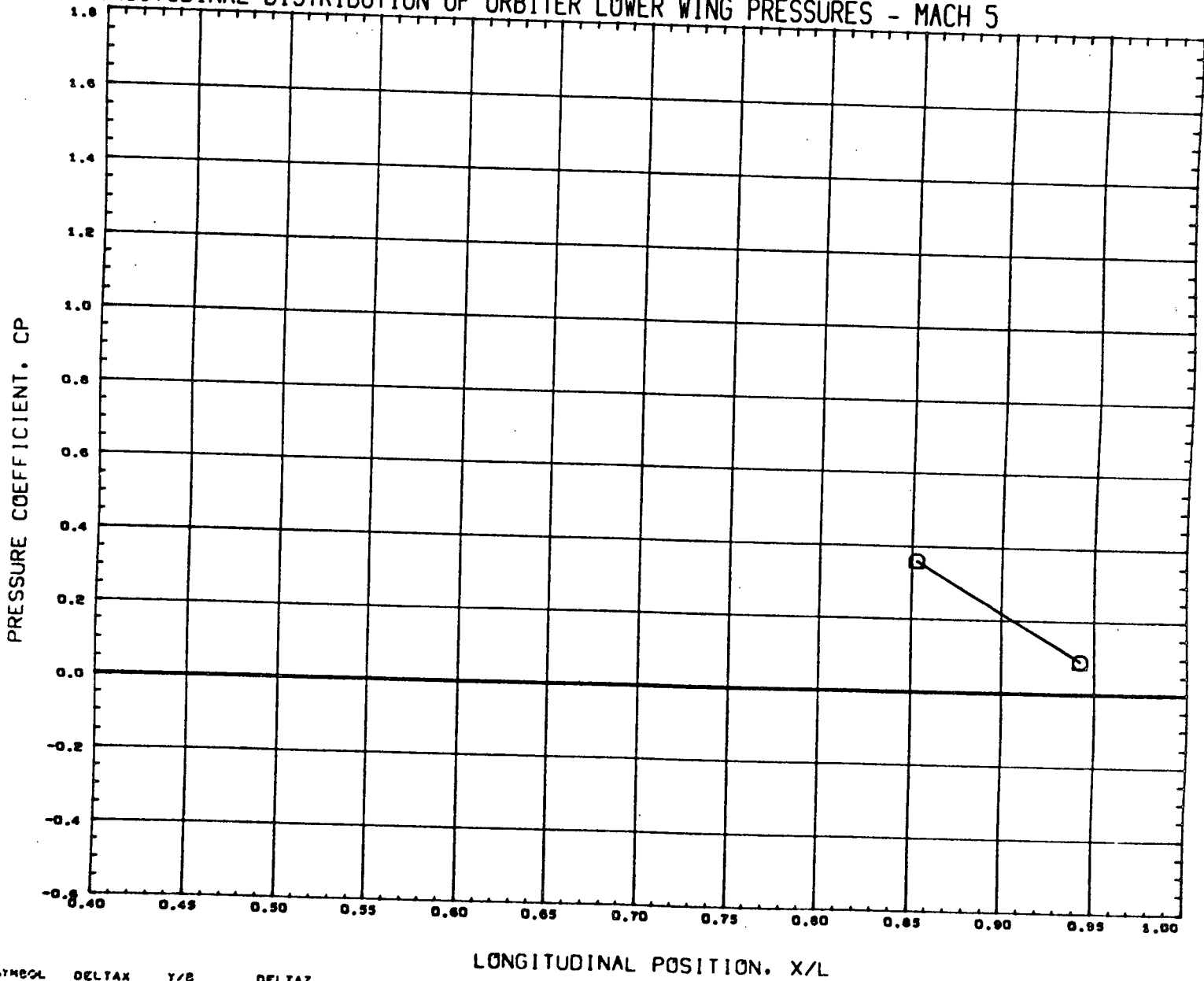
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8604•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
C	0.179	0.736	0.106

PARAMETRIC VALUES			
ALPHAB	5.040	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	100.000		

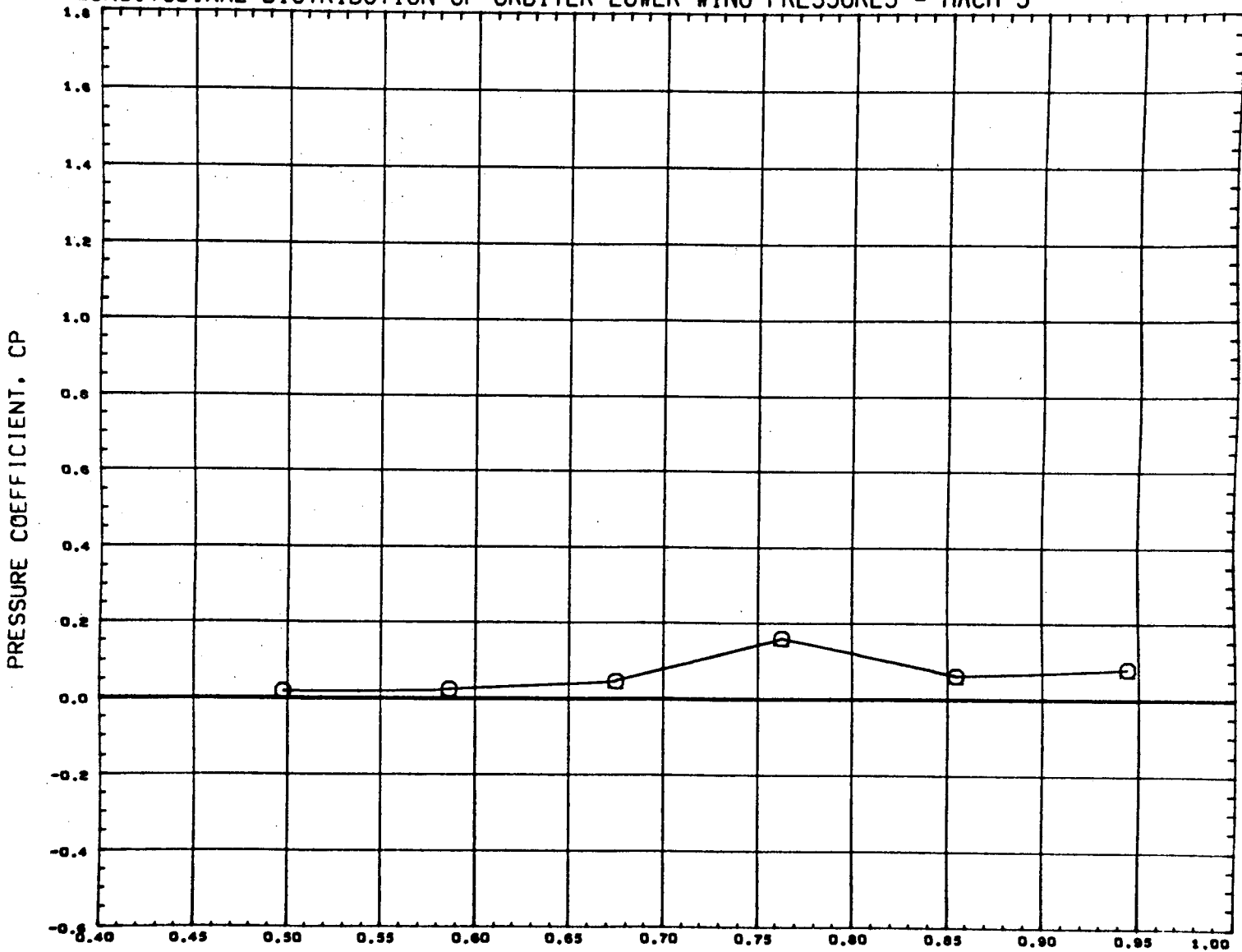
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8604•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106

PARAMETRIC VALUES			
ALPHA B	9.990	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	100.000		

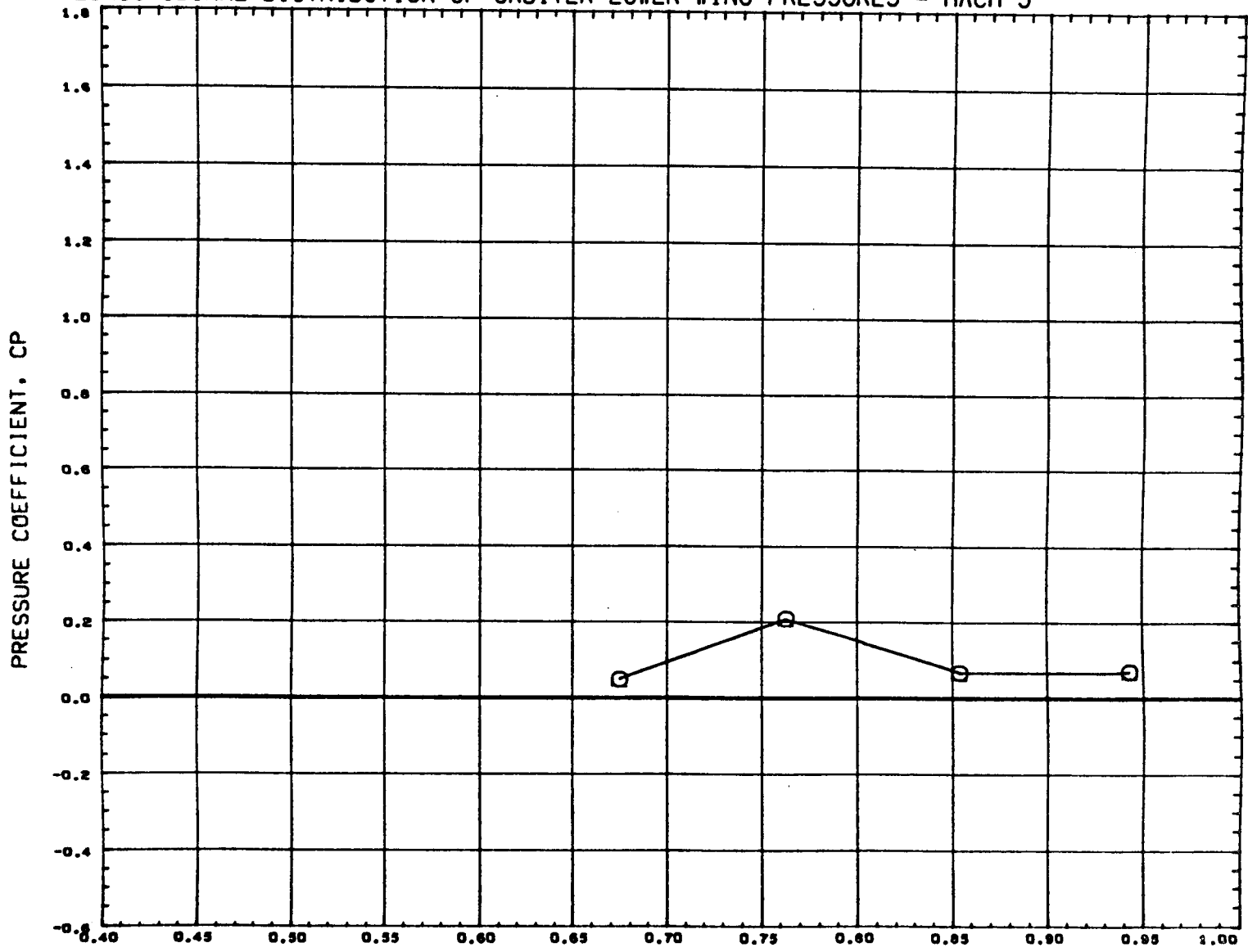
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8605•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



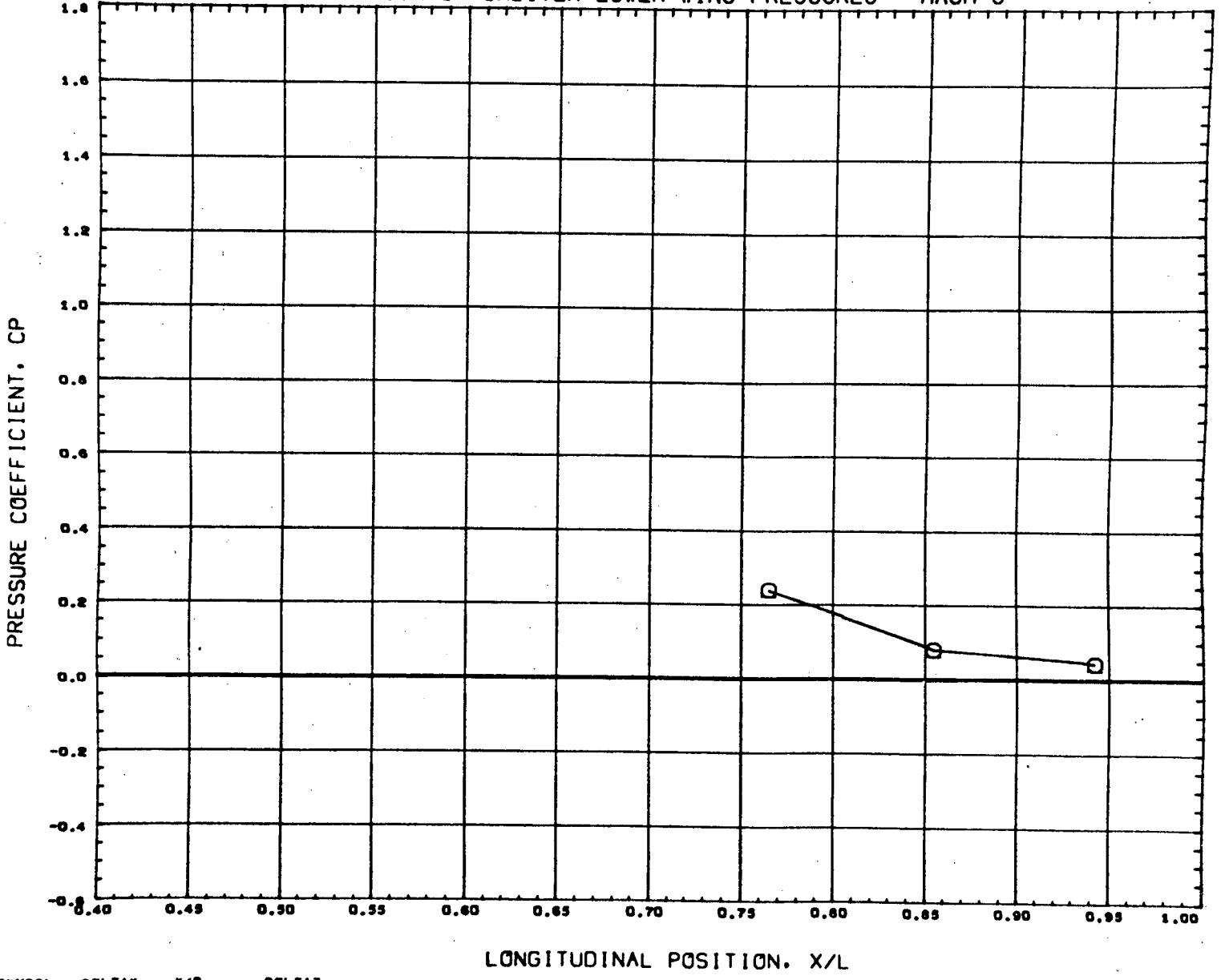
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106

PARAMETRIC VALUES			
ALPHAB	9.990	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.366	0.106

PARAMETRIC VALUES			
ALPHAB	9.990	MACH	4.970
ALPHAI	0.000	ORSPOW	100.000
BSTPOW	100.000		

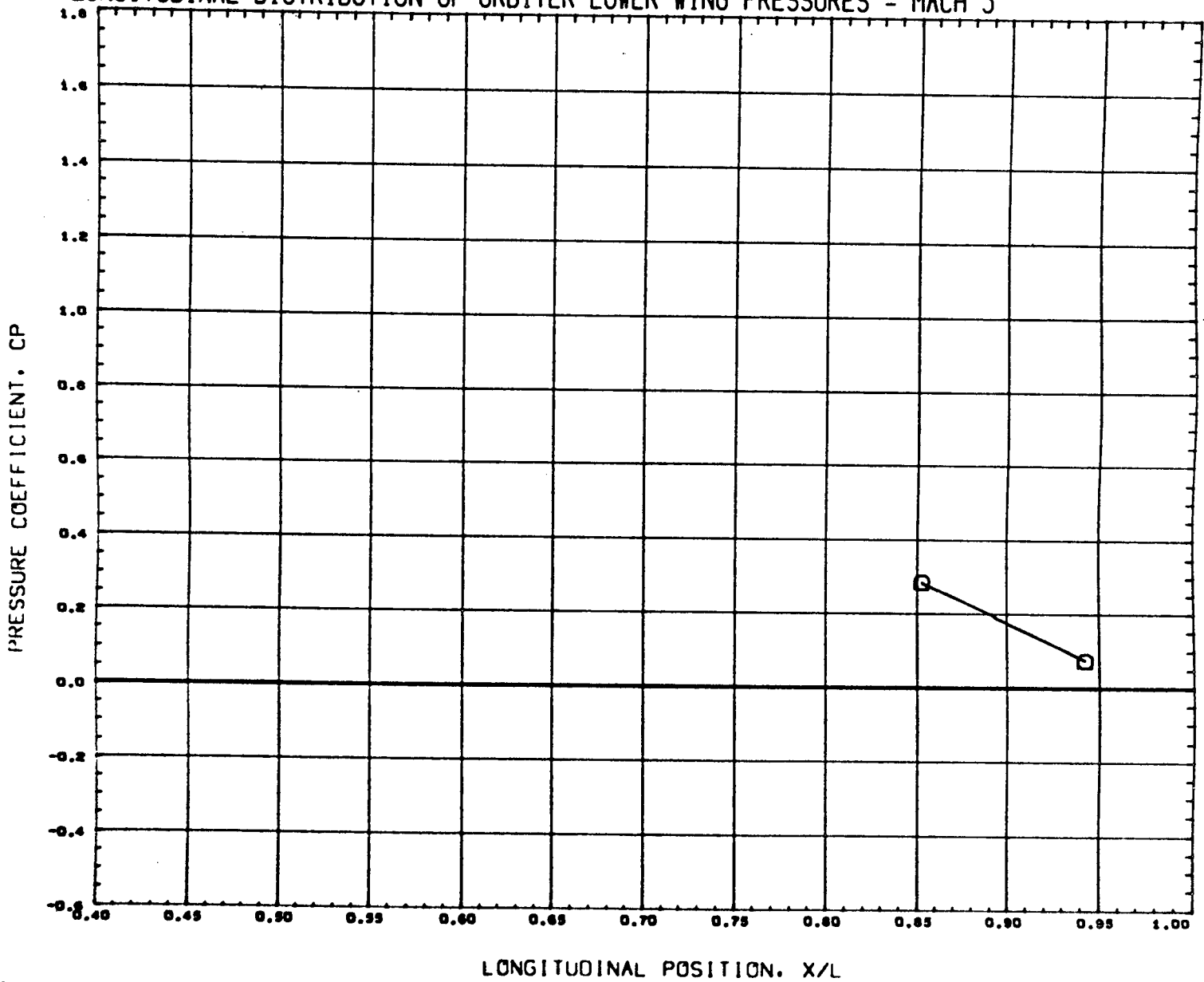
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8605•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX 1/8 DELTAZ
 ○ - 0.179 0.734 0.106

PARAMETRIC VALUES
 ALPHAB 9.990 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 100.000

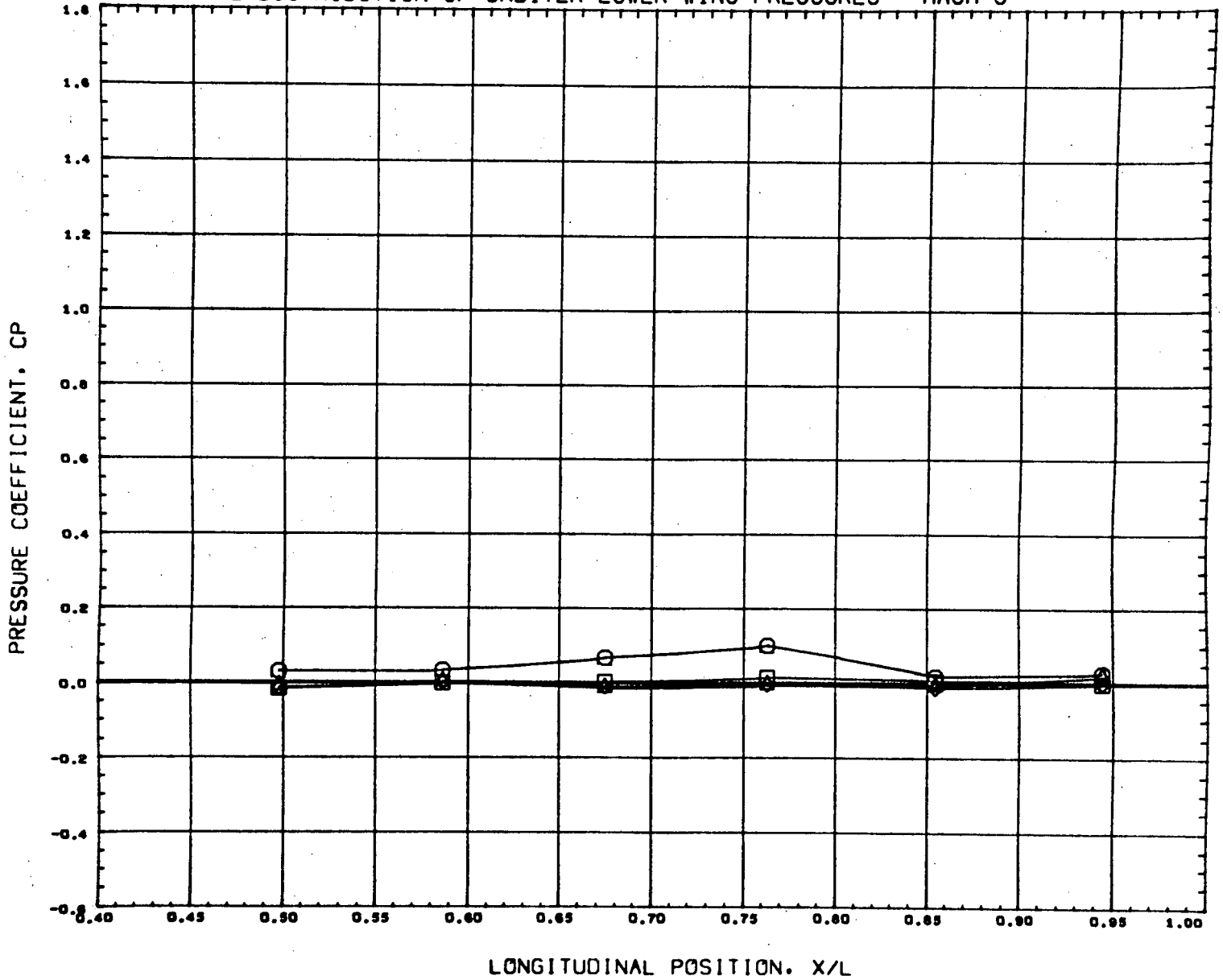
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AESC VA1163 MDAC ORBITER (LOWER WING)

•HT8605•

PAGE 920

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

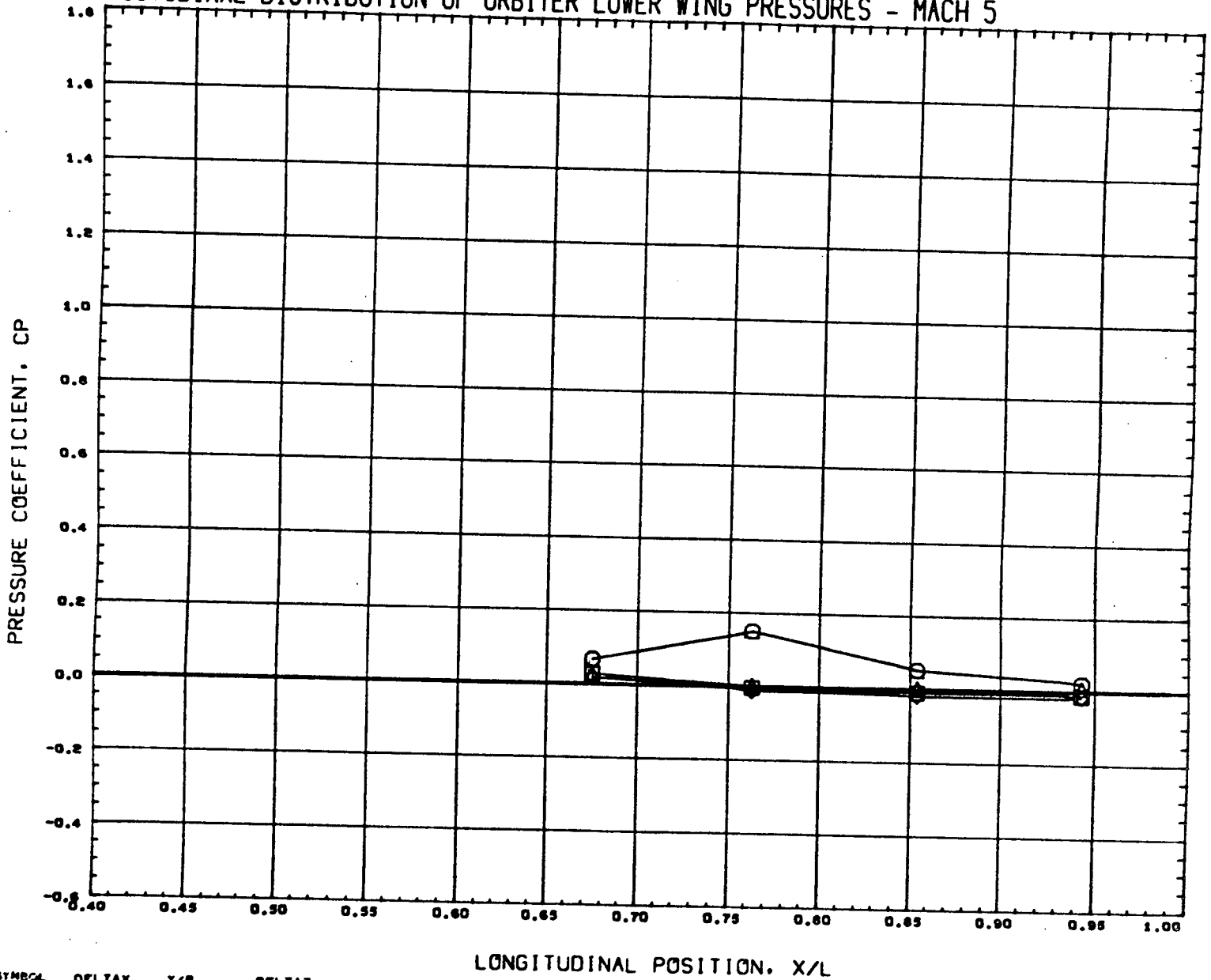


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.980	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.980	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	100.000		

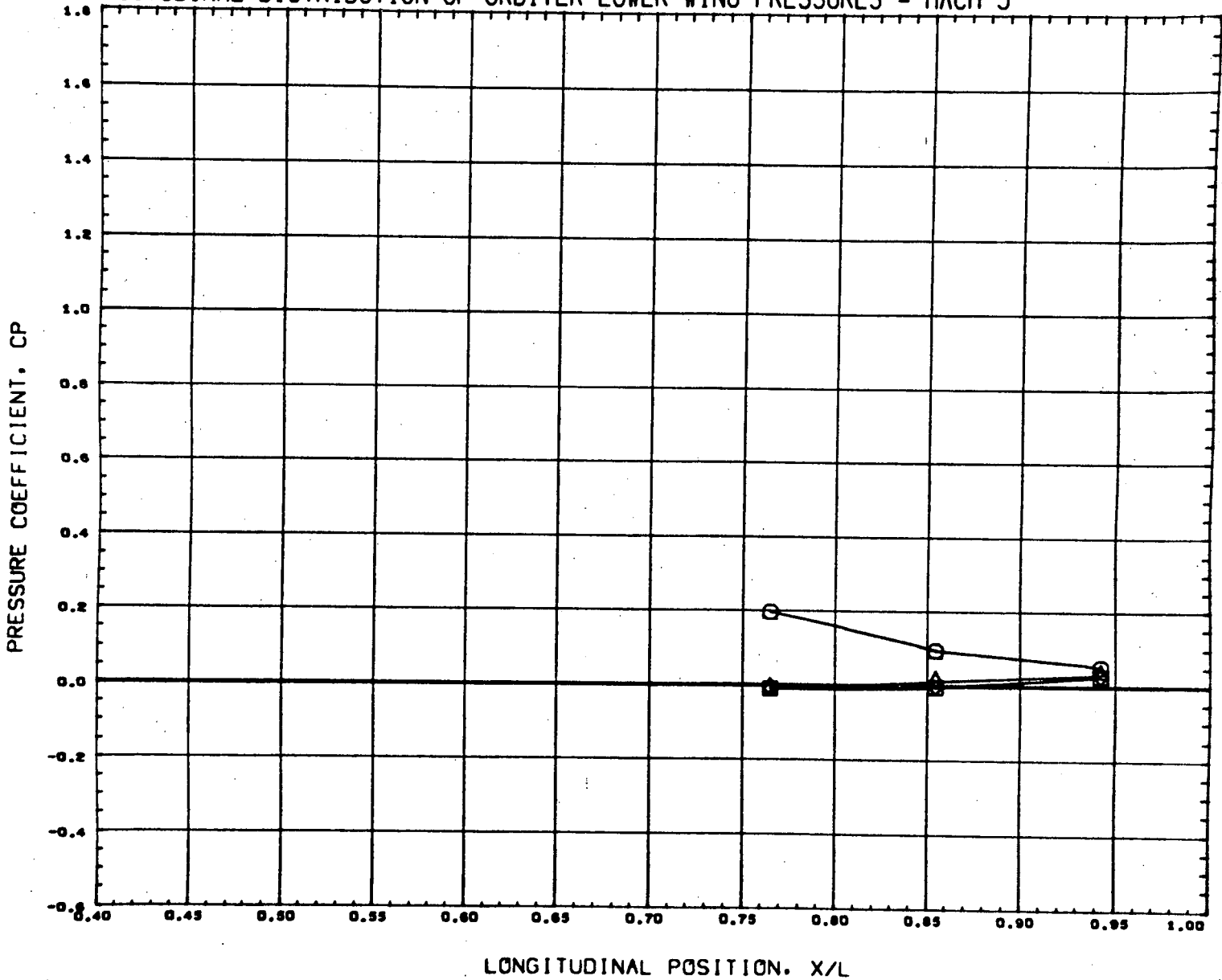
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8611•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.566	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	- 9.980	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	100.000		

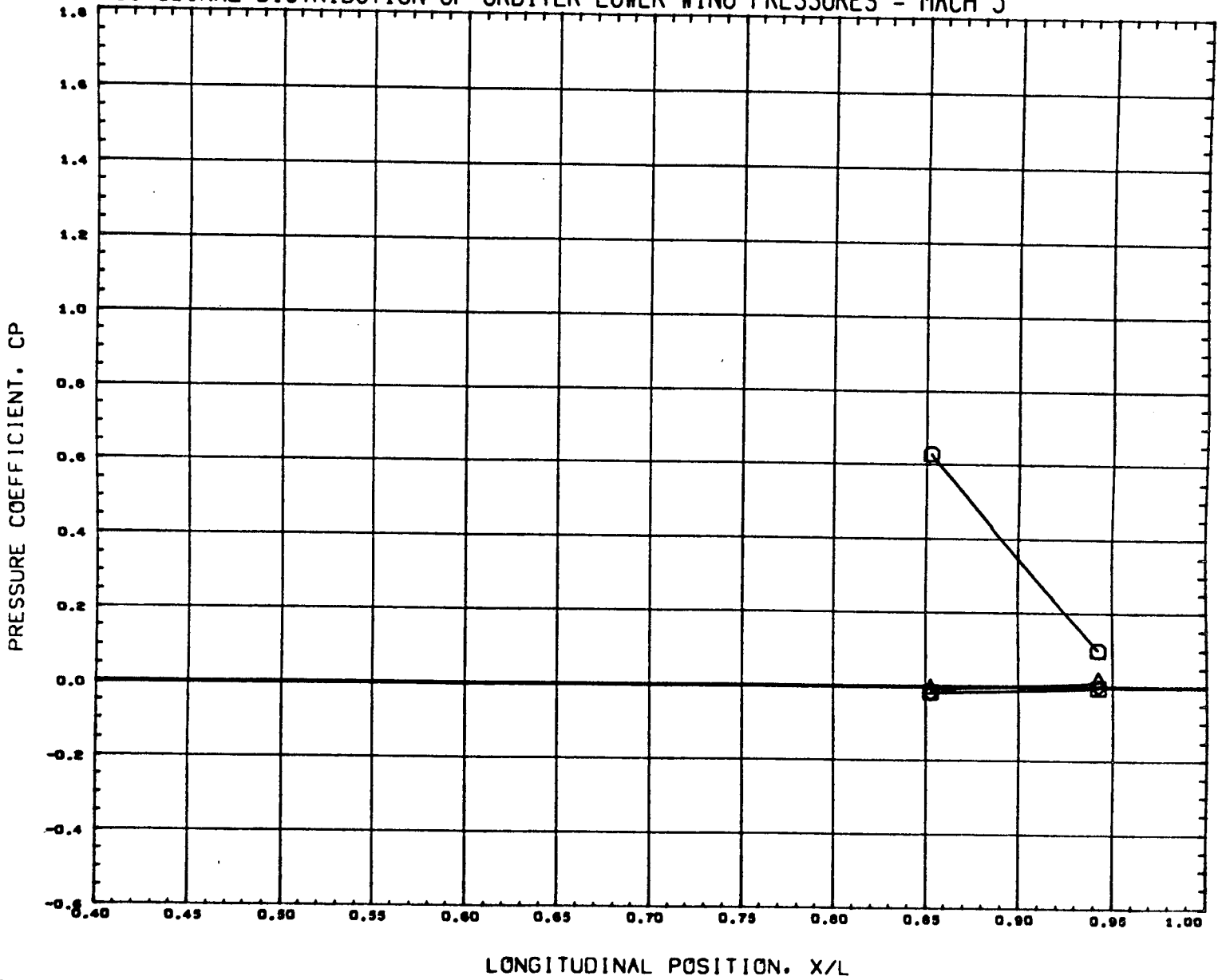
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8611•

PAGE 923

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.739	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.980	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	100.000		

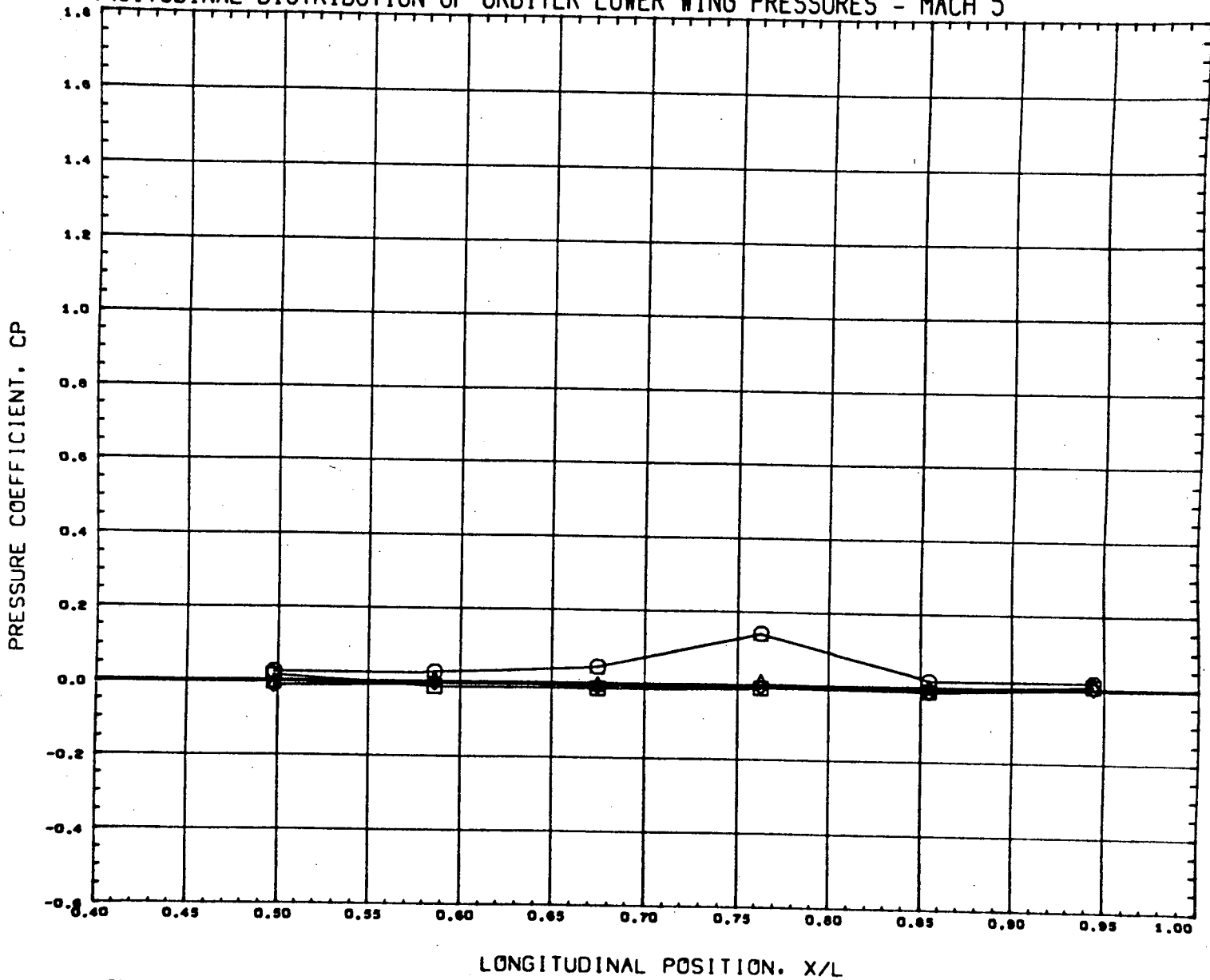
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8611•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106
◇	0.041		
◻	0.103		
◻	0.164		

PARAMETRIC VALUES			
ALPHAB	4.950	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	100.000		

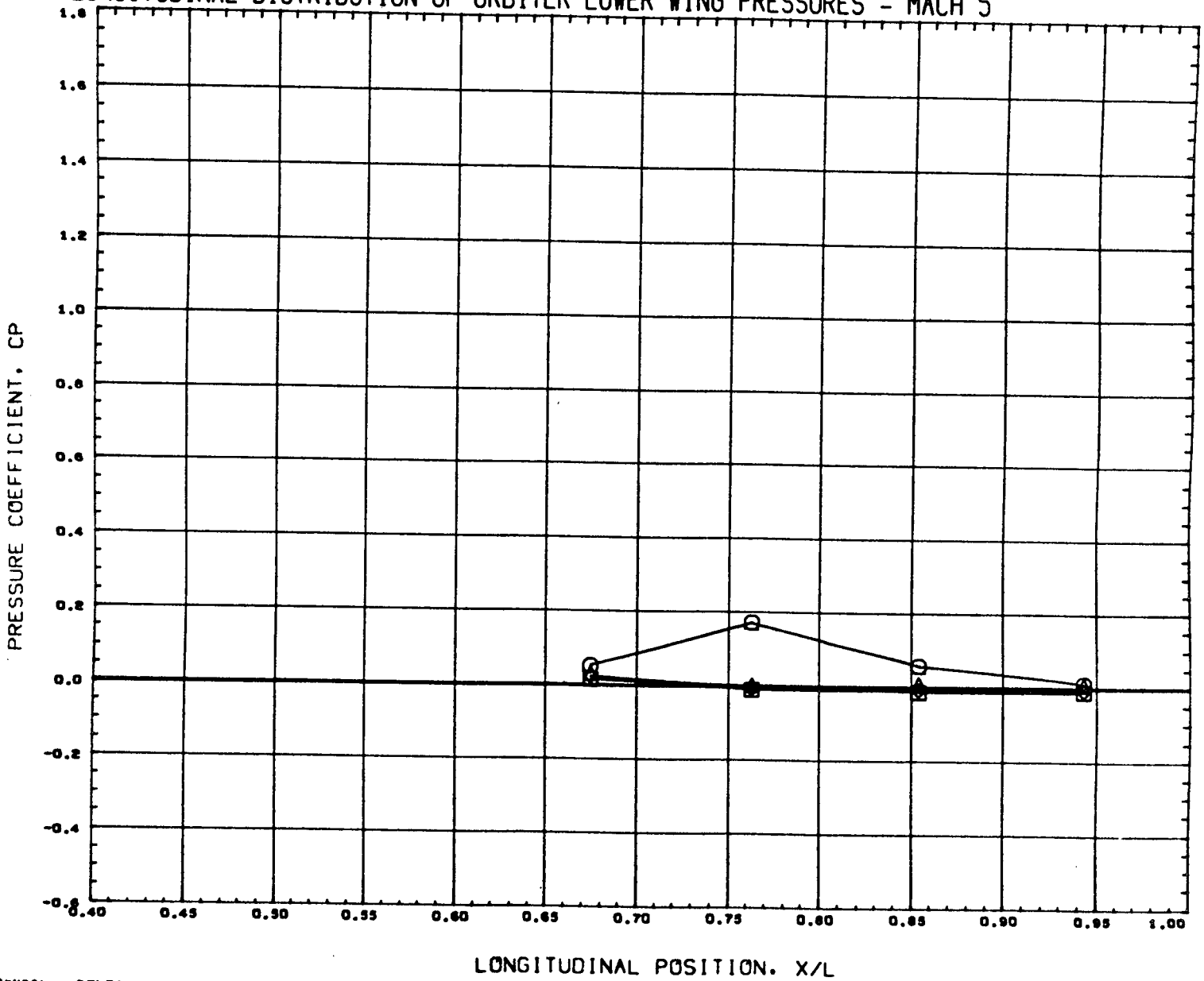
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8612•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	- 4.950	MACH	4.970
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

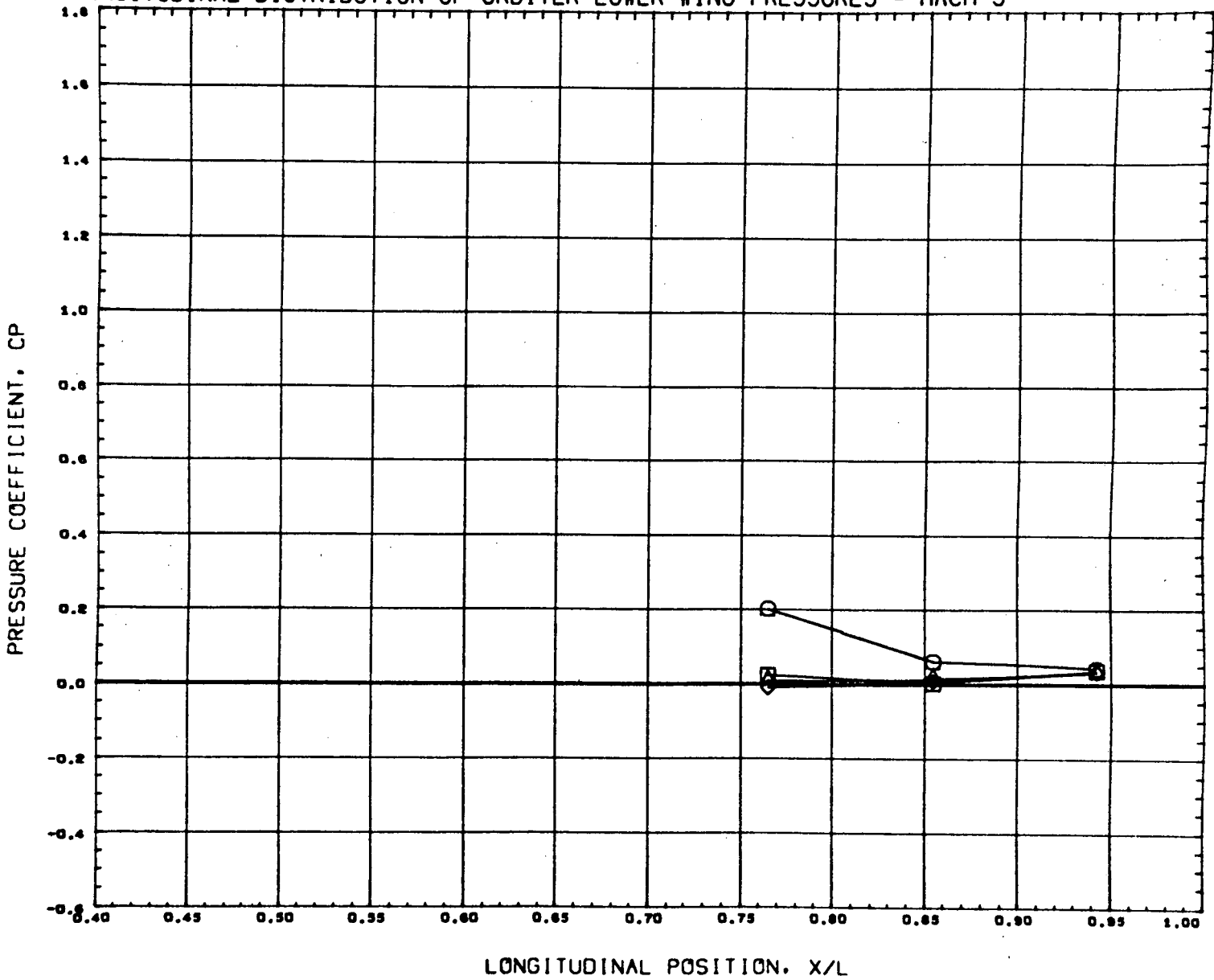
AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8612•

PAGE 926

C.9.

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

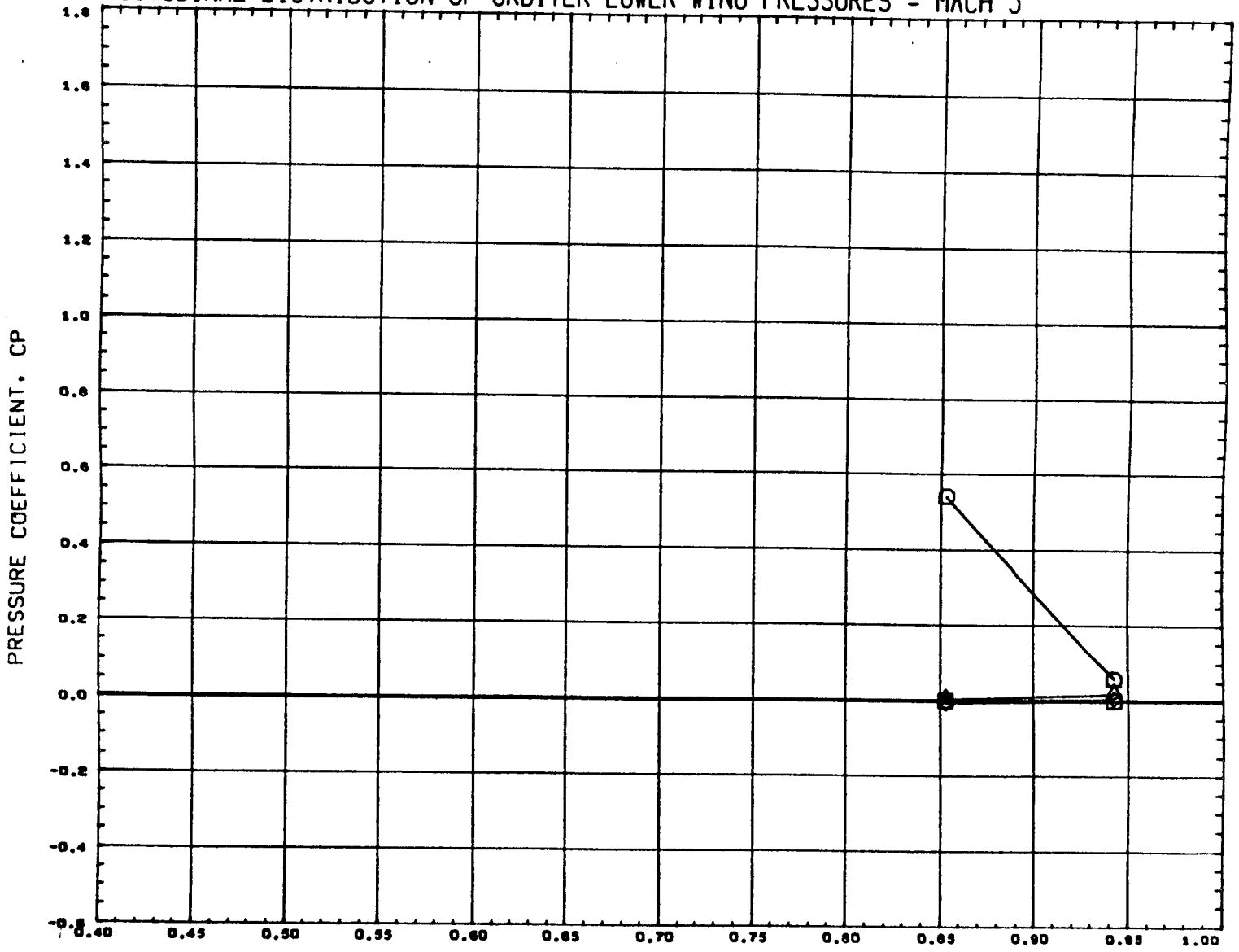


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.366	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	4.950	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



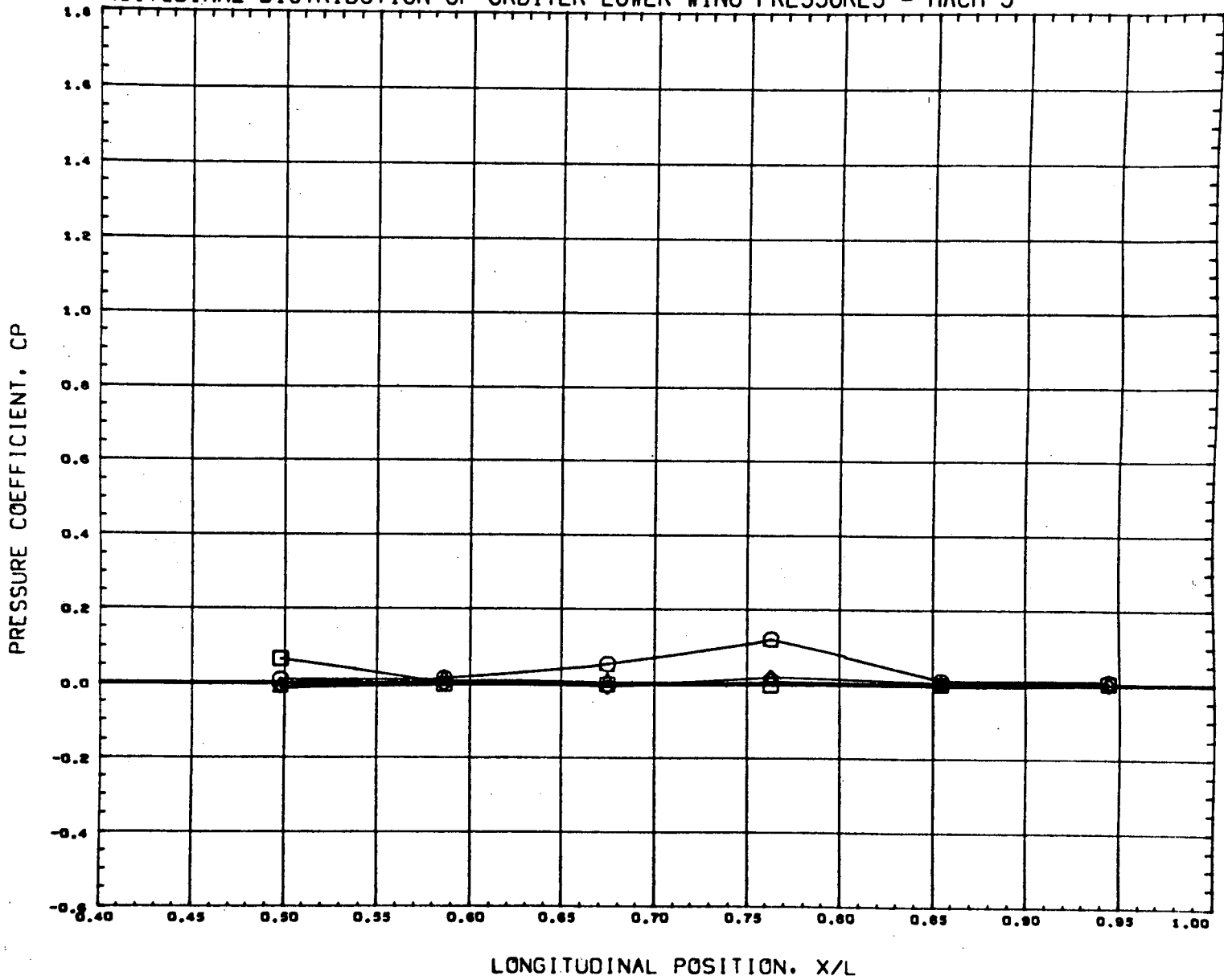
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.739	0.106
◇	0.041		
◻	0.103		
◻	0.164		

PARAMETRIC VALUES			
ALPHAB	4.930	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	100.000		

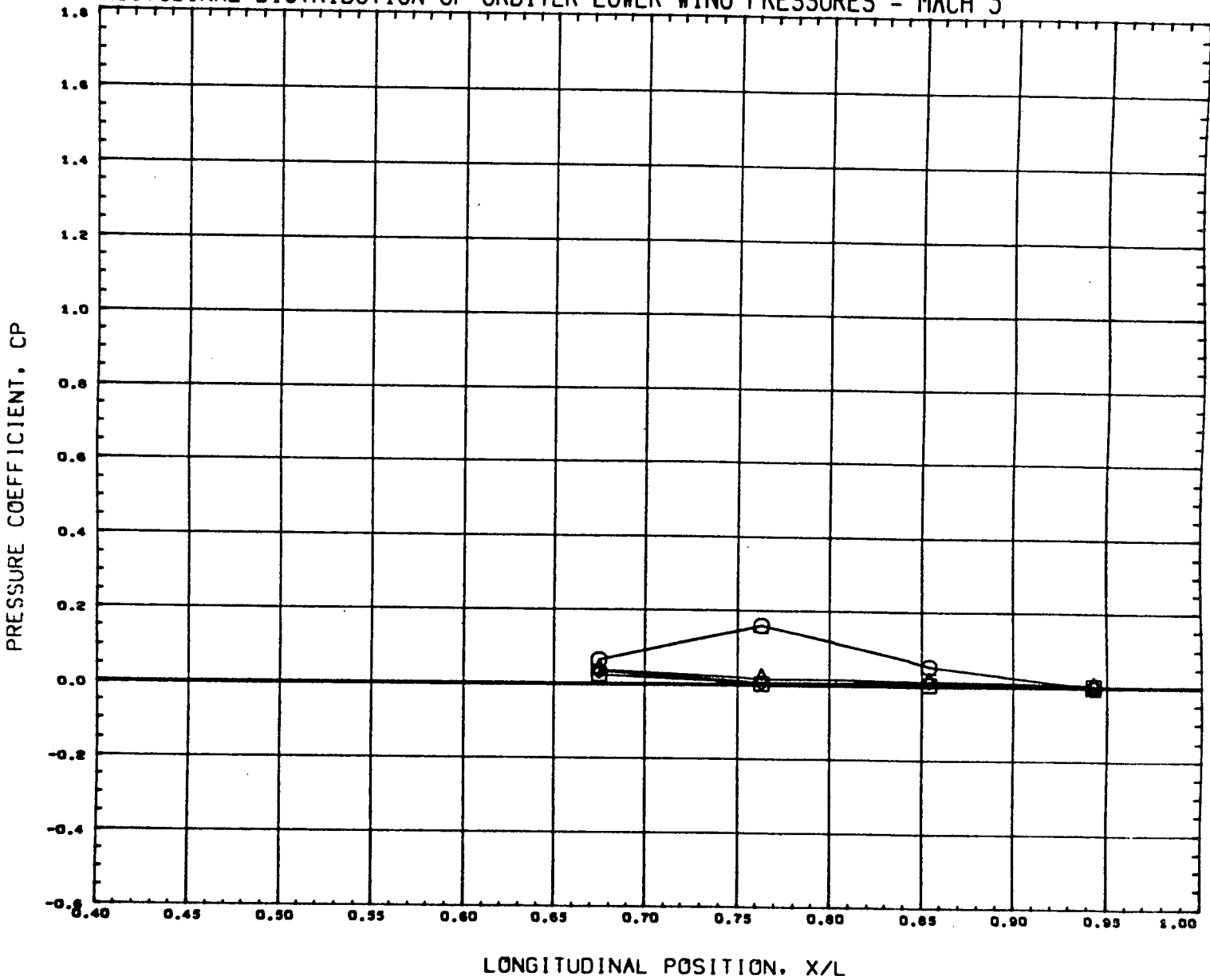
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8613•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	100.000		

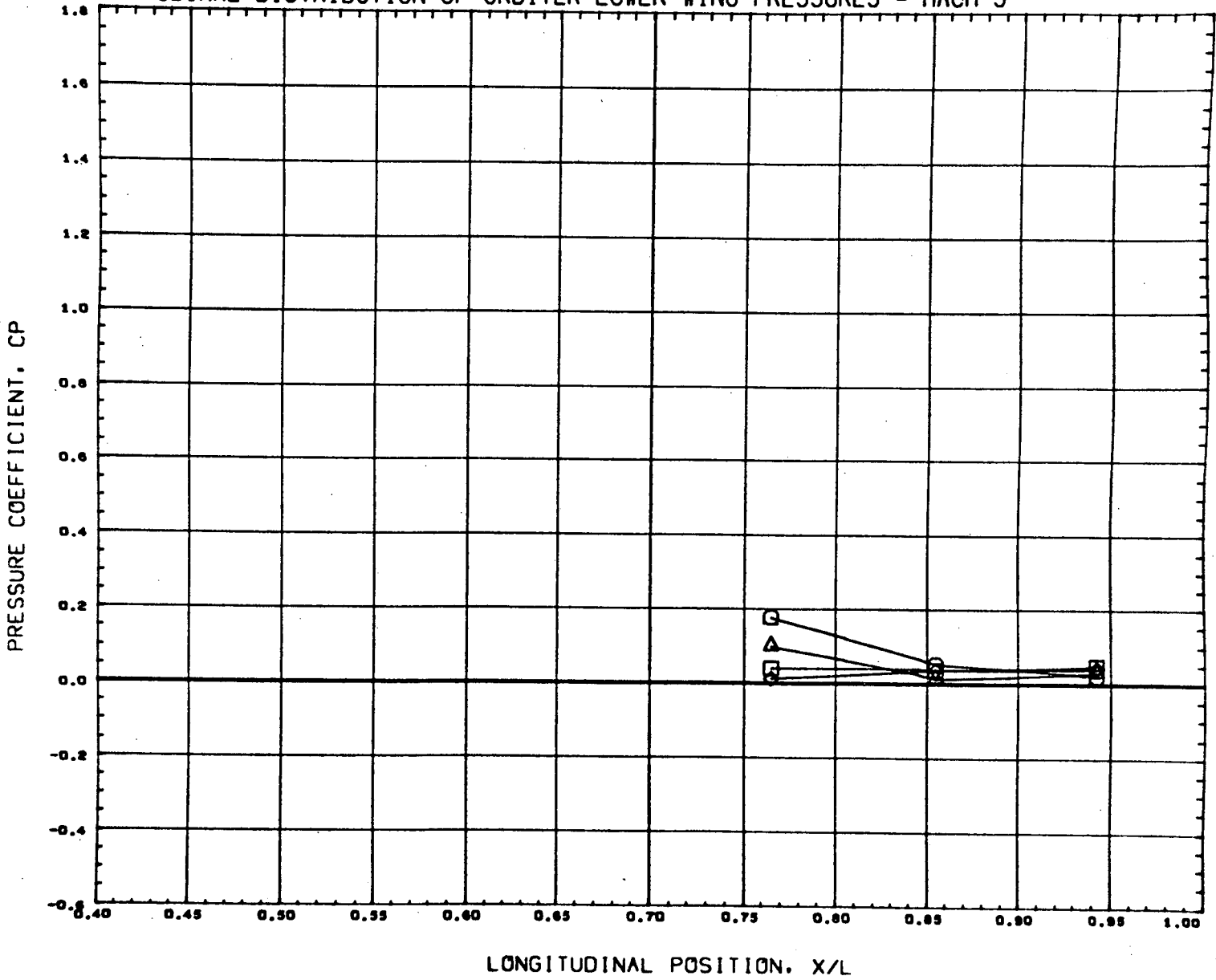
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8613•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

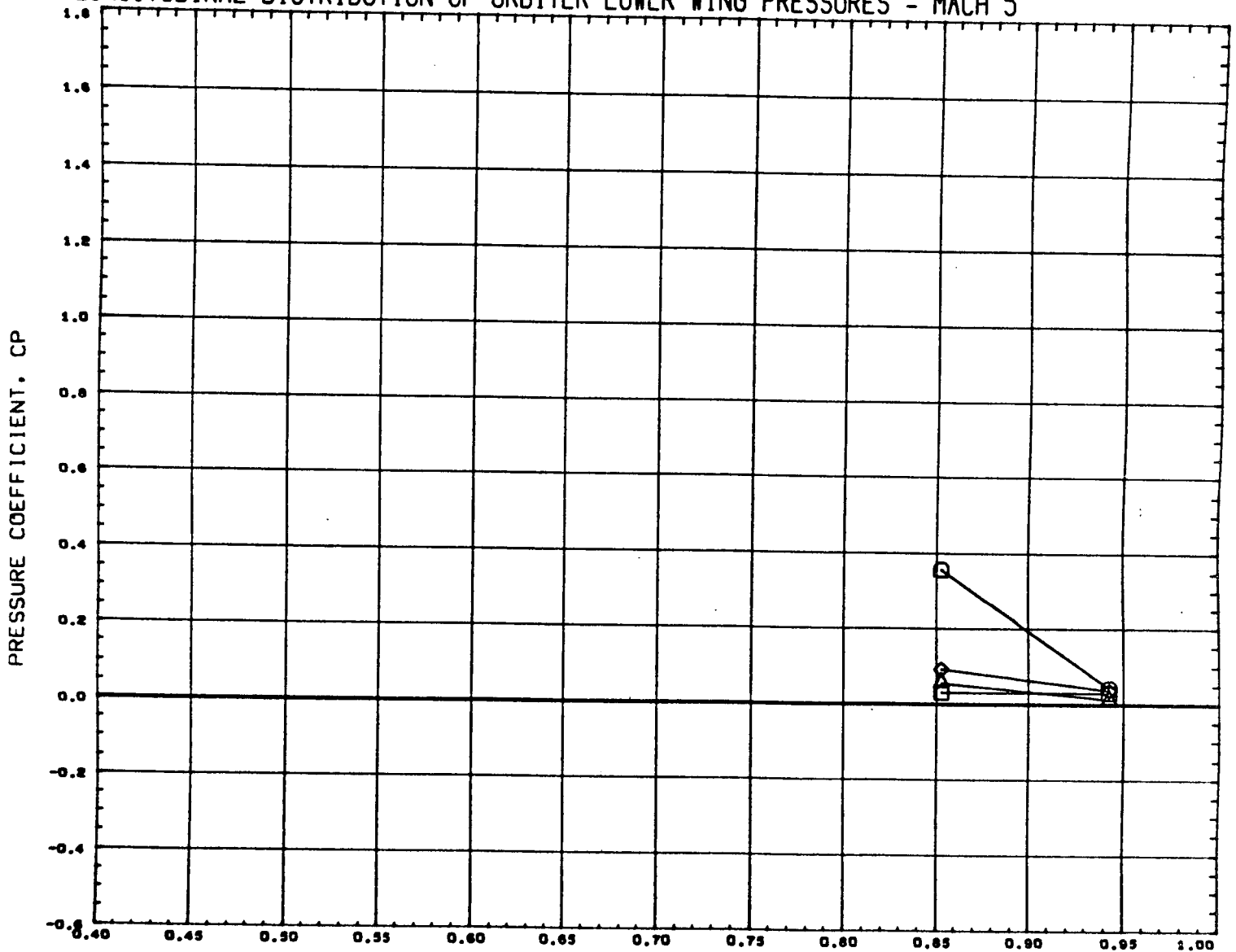


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.566	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



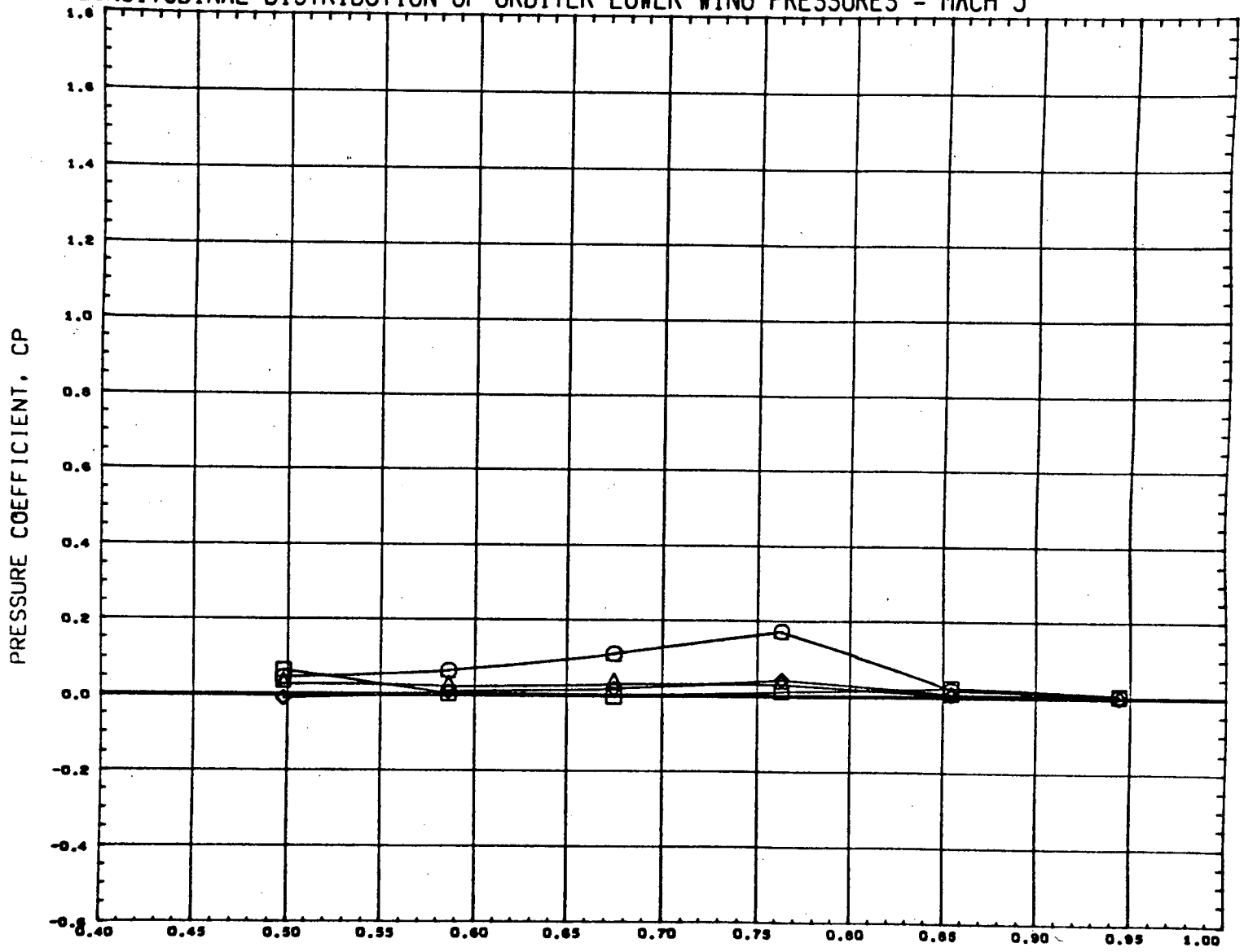
LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.738	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



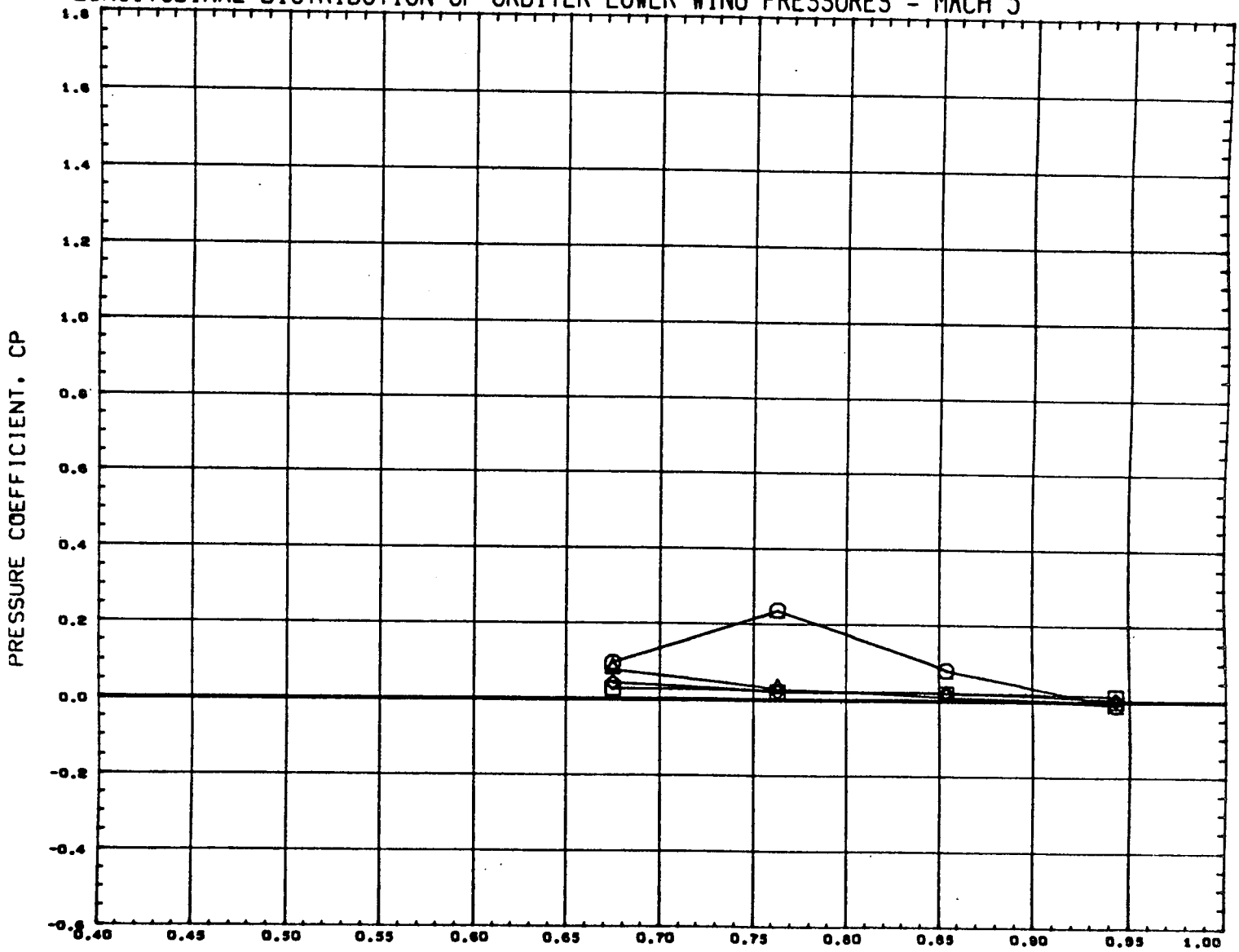
SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	5.037	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL POSITION, X/L

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	5.037	MACH	4.970
ALPHAI	0.000	ORBPOM	0.000
BSTPOM	100.000		

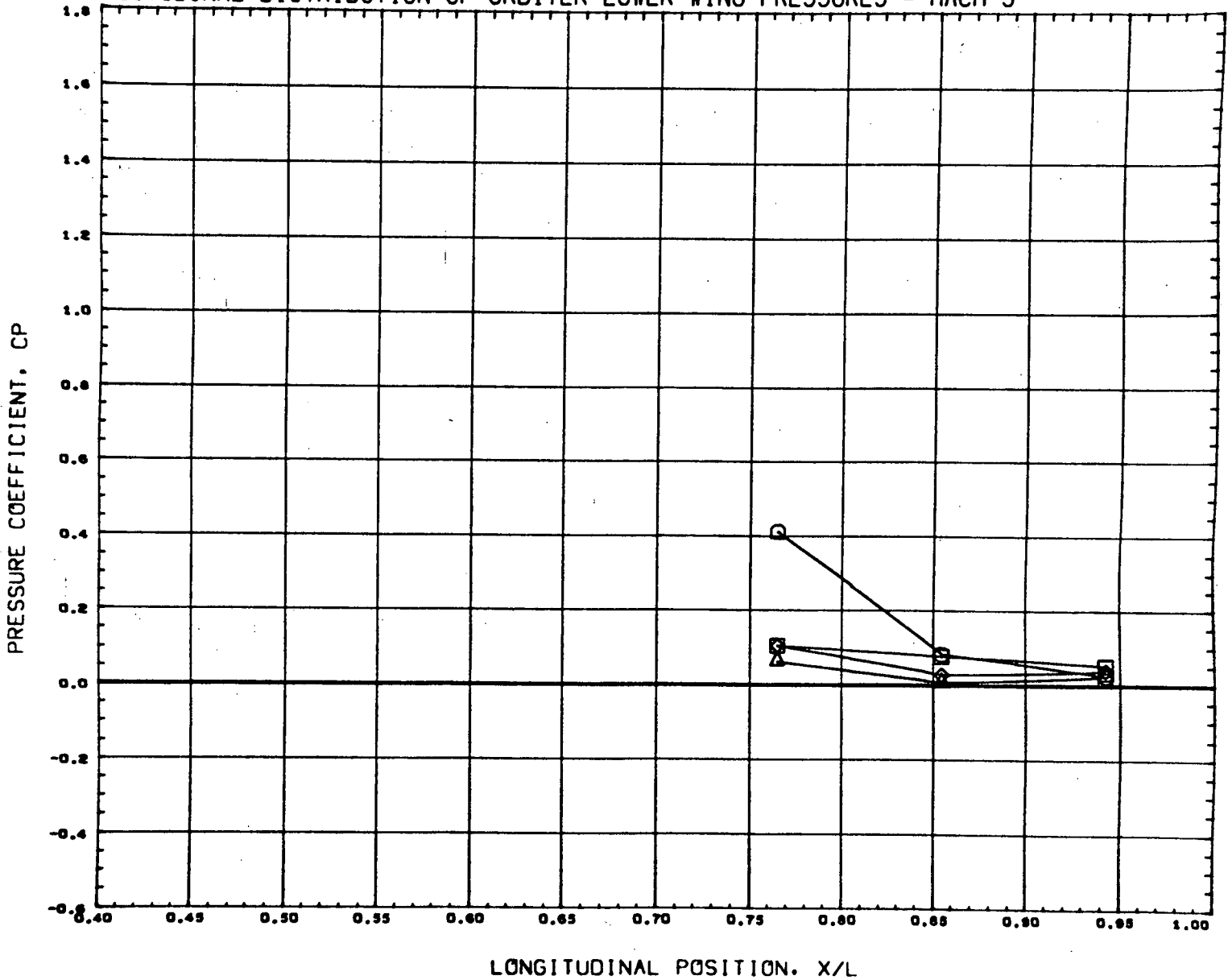
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8614•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

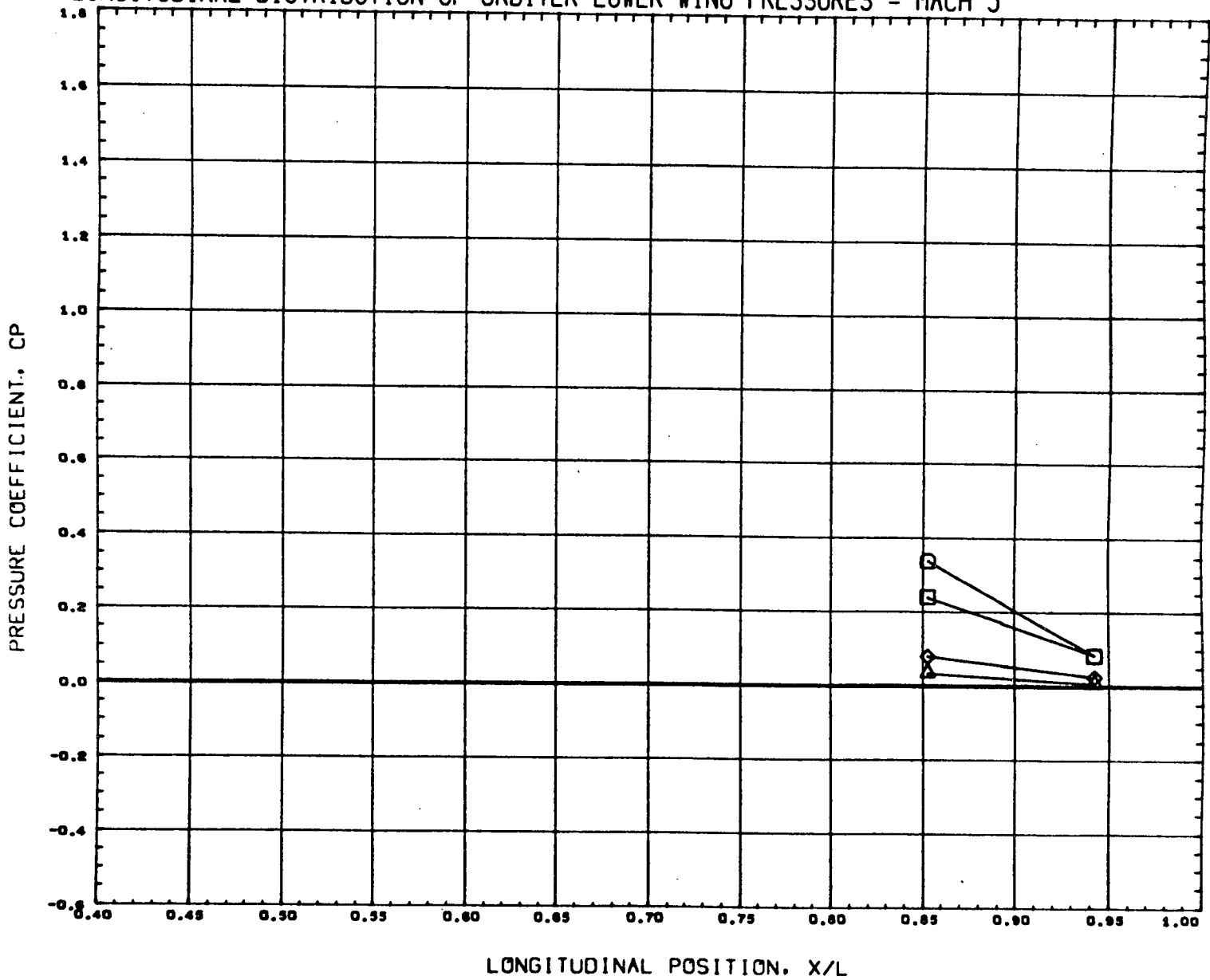


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.569	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES		
ALPHAB	3.037	MACH 4.970
ALPHA1	0.000	ORBPOW 0.000
BSTPOW	100.000	

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

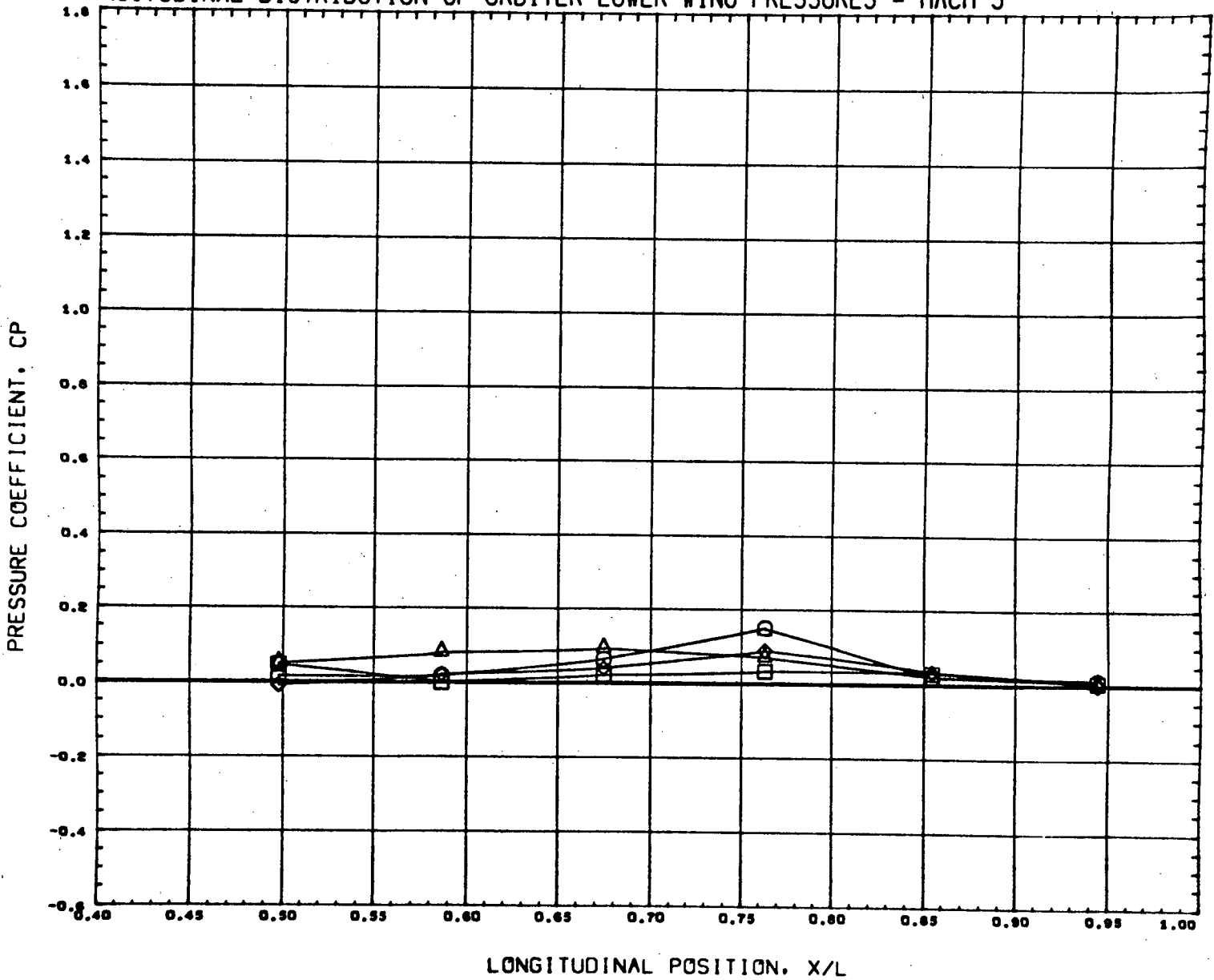


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.736	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.037	MACH	4.970
ALPHA1	0.000	ORSPW	0.000
BSTPW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.230	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.993	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	100.000		

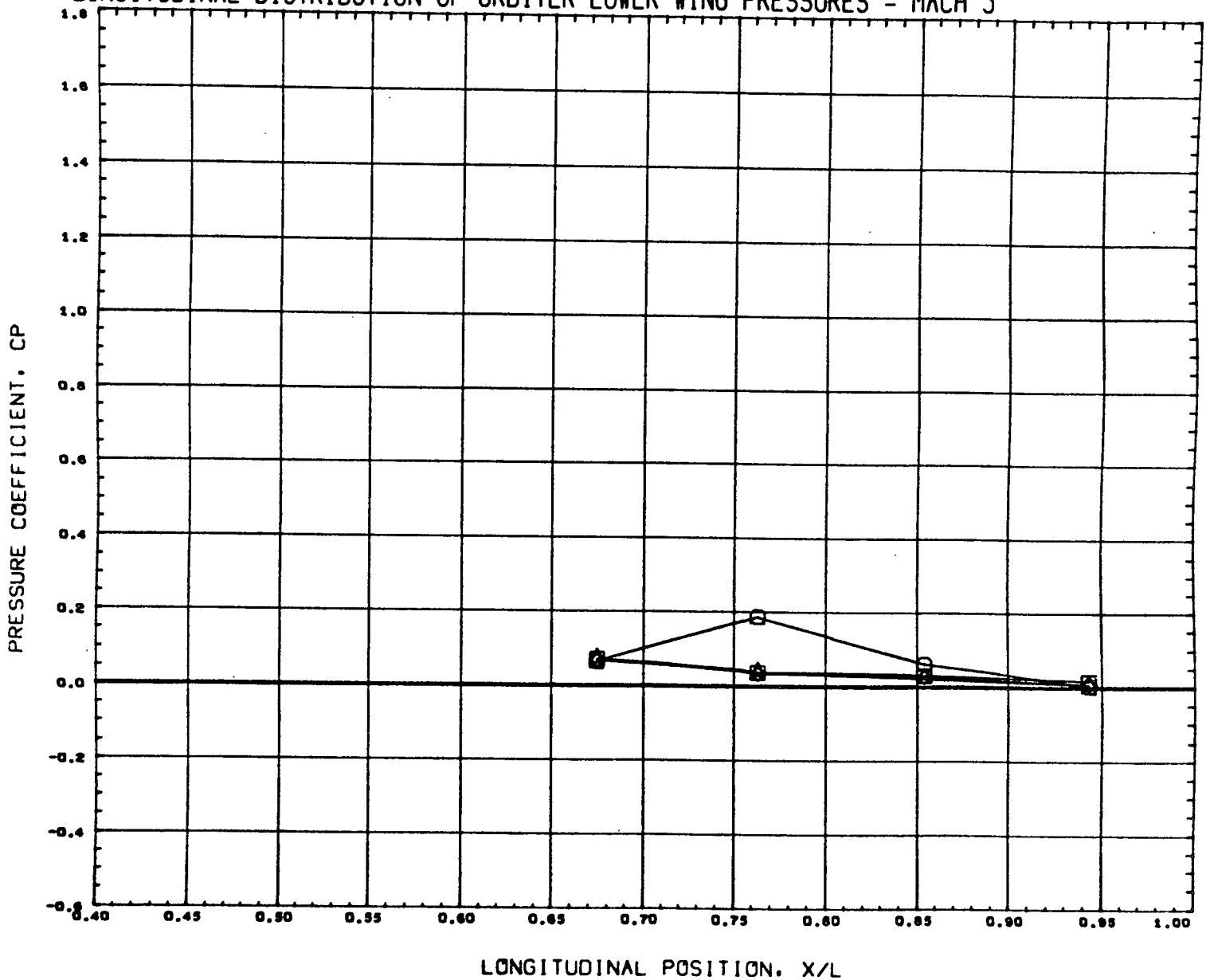
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8615•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

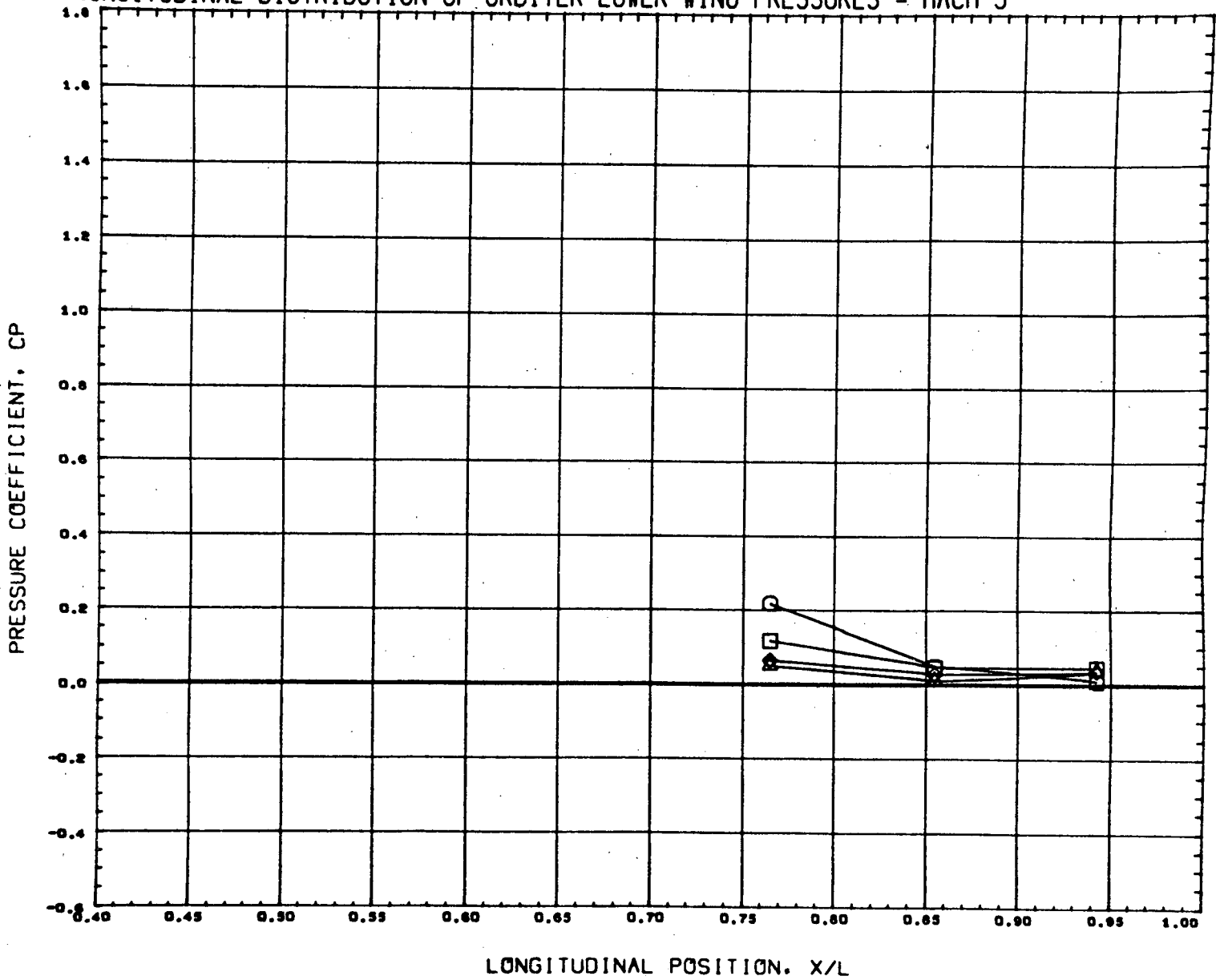


SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.399	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.993	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.566	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES		
ALPHAB	9.995	MACH 4.970
ALPHA1	0.000	ORBPOW 0.000
BSTPOW	100.000	

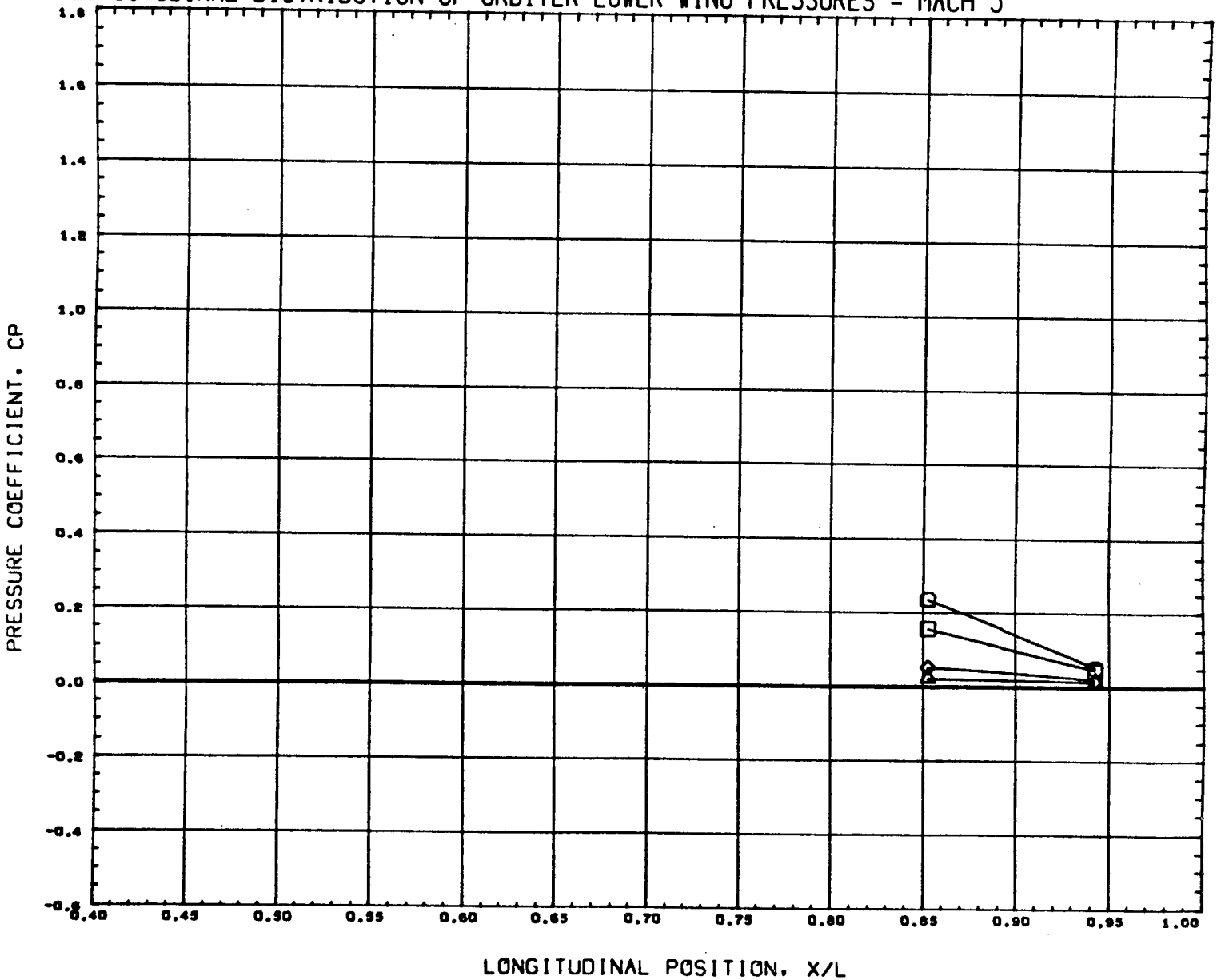
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8615•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.179	0.739	0.106
□	0.041		
◇	0.103		
△	0.164		

PARAMETRIC VALUES			
ALPHAB	9.995	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	100.000		

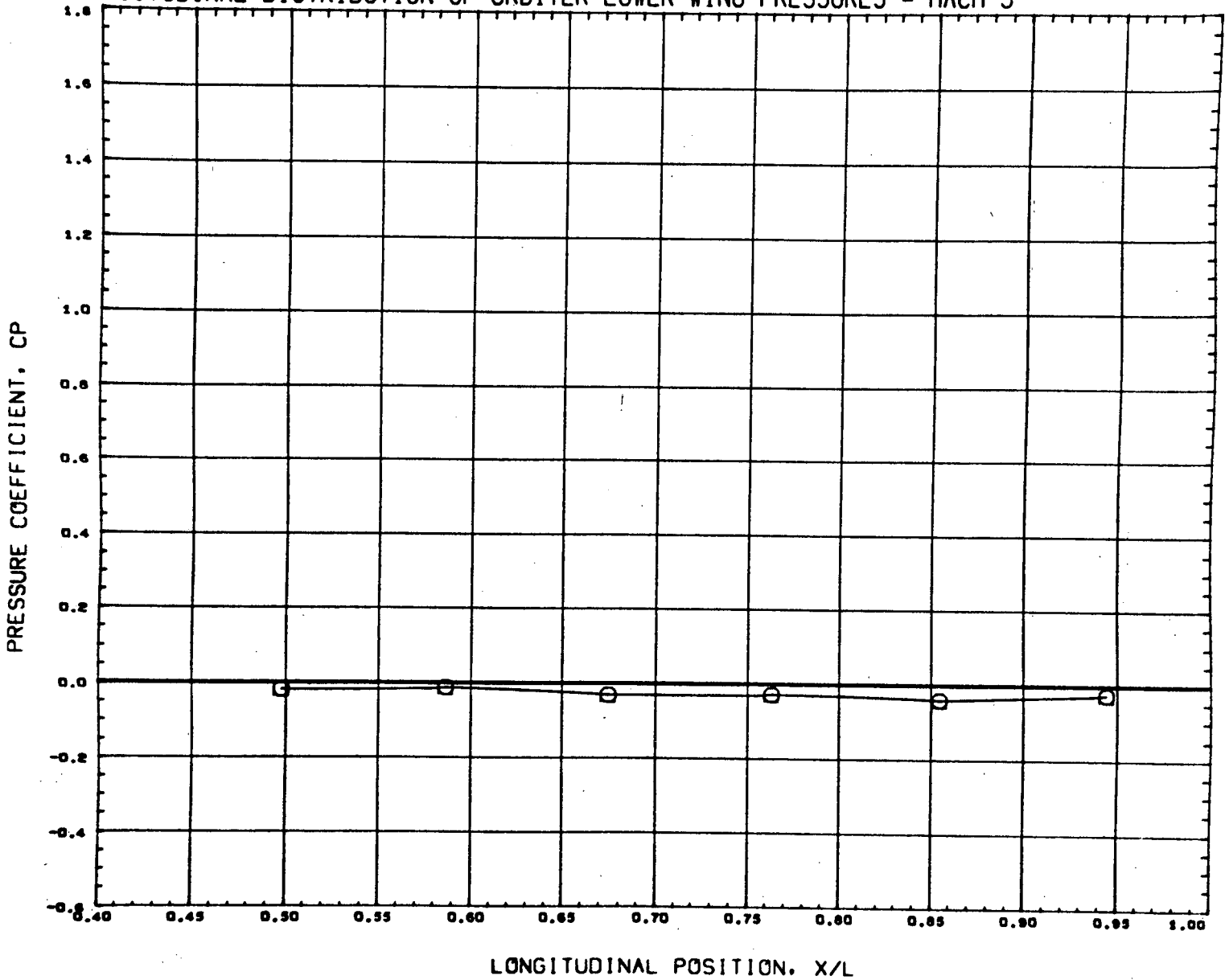
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8615•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.230	0.106

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

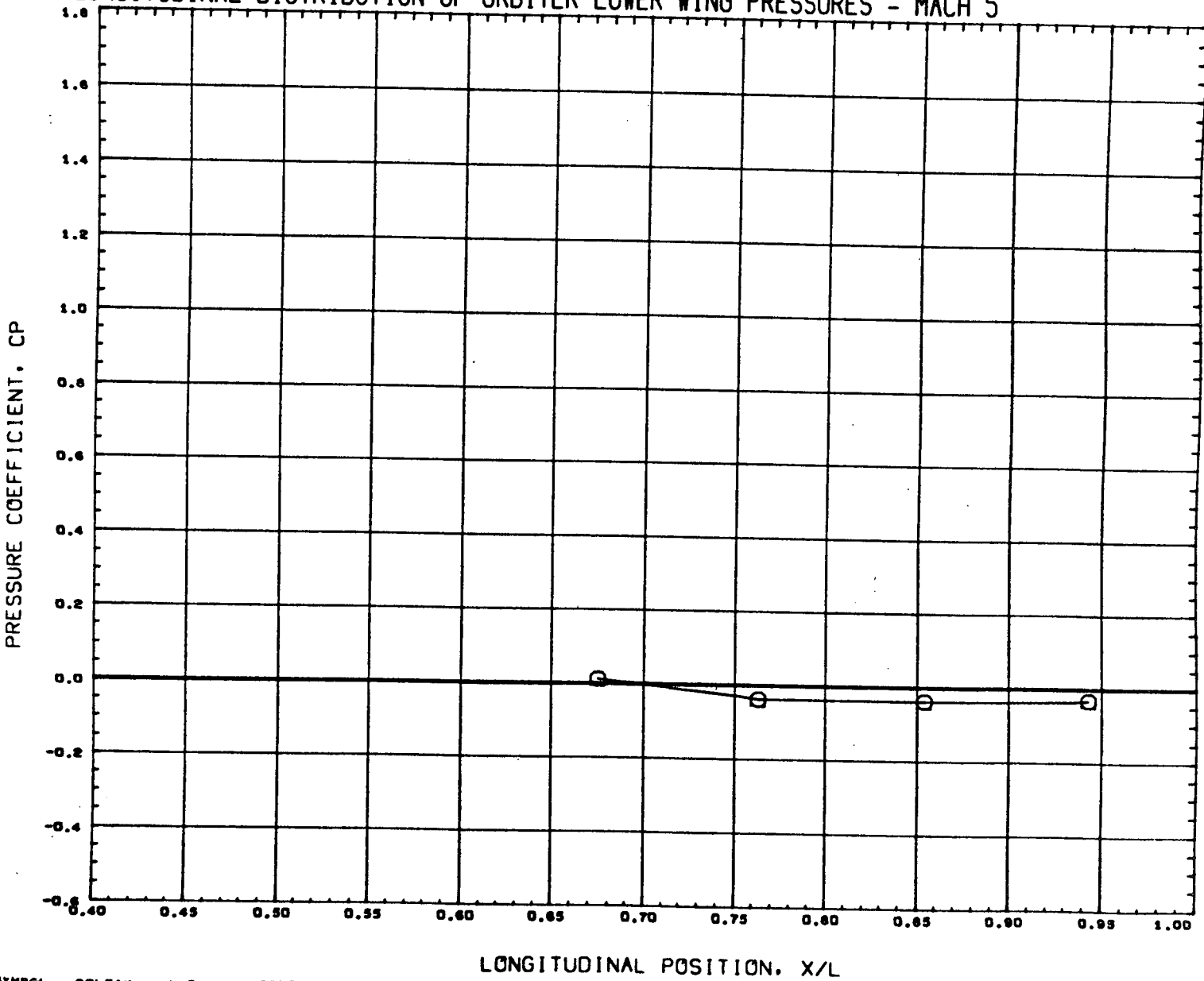
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.399	0.106

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

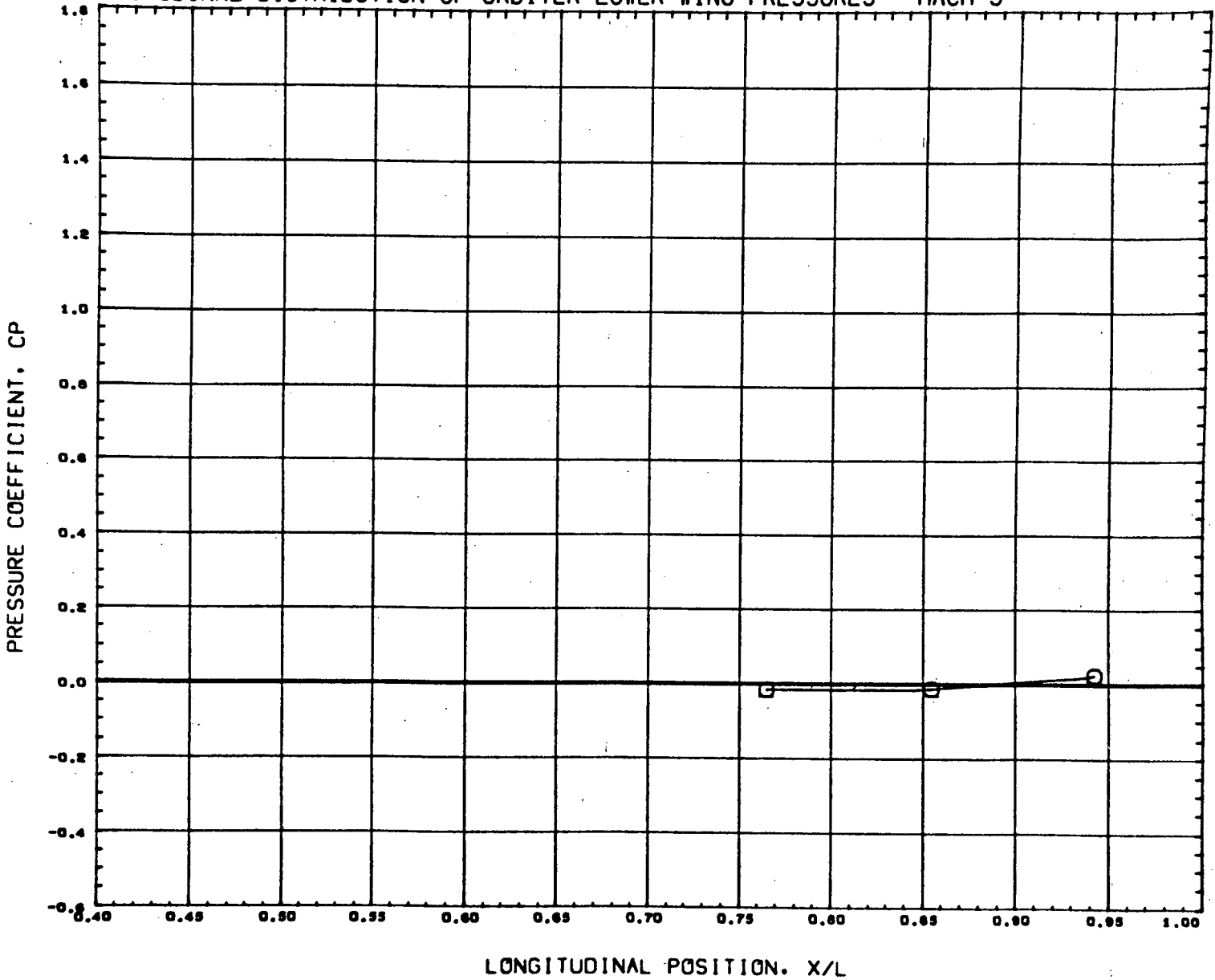
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
□	0.103	0.366	0.106

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

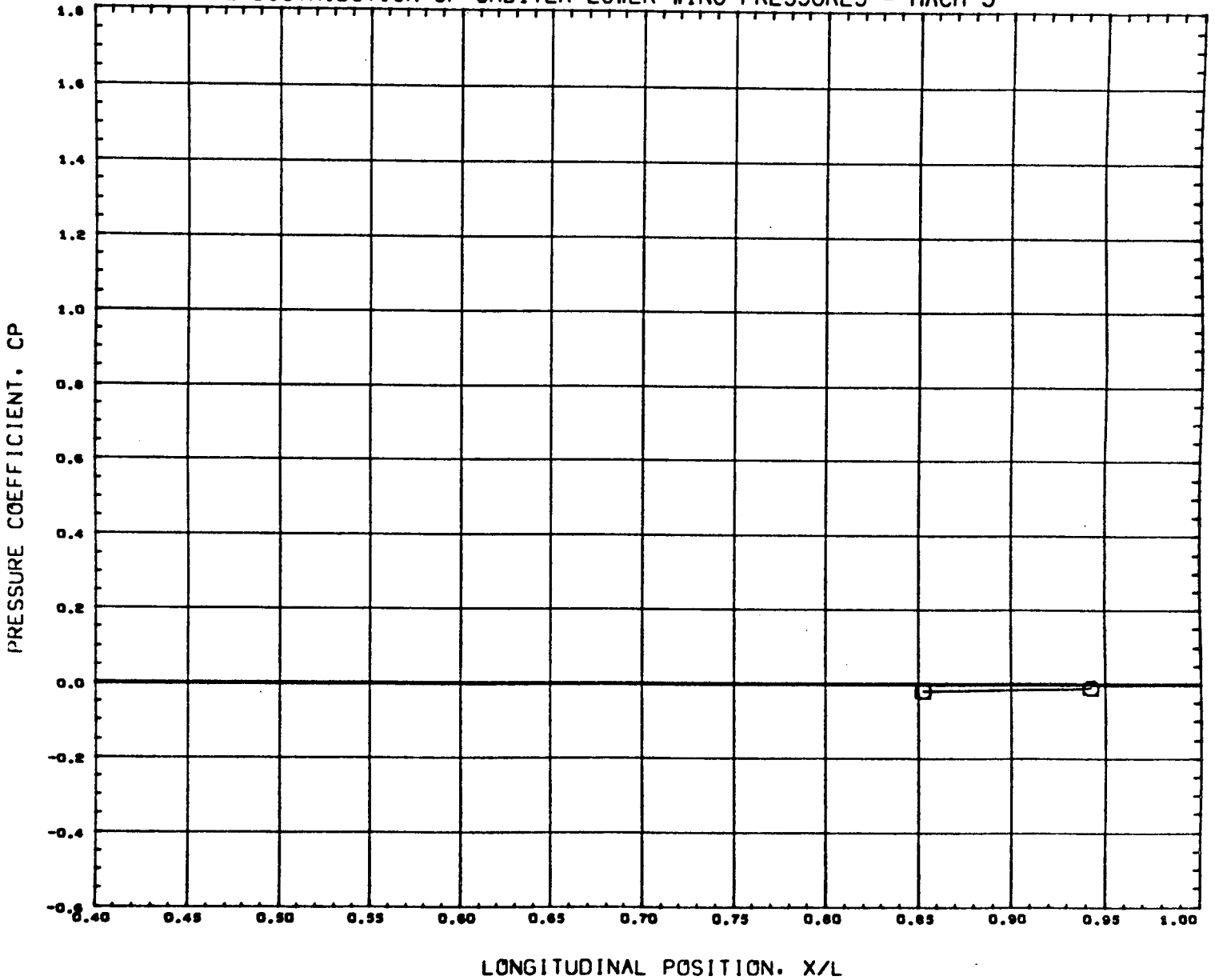
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.738	0.106

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

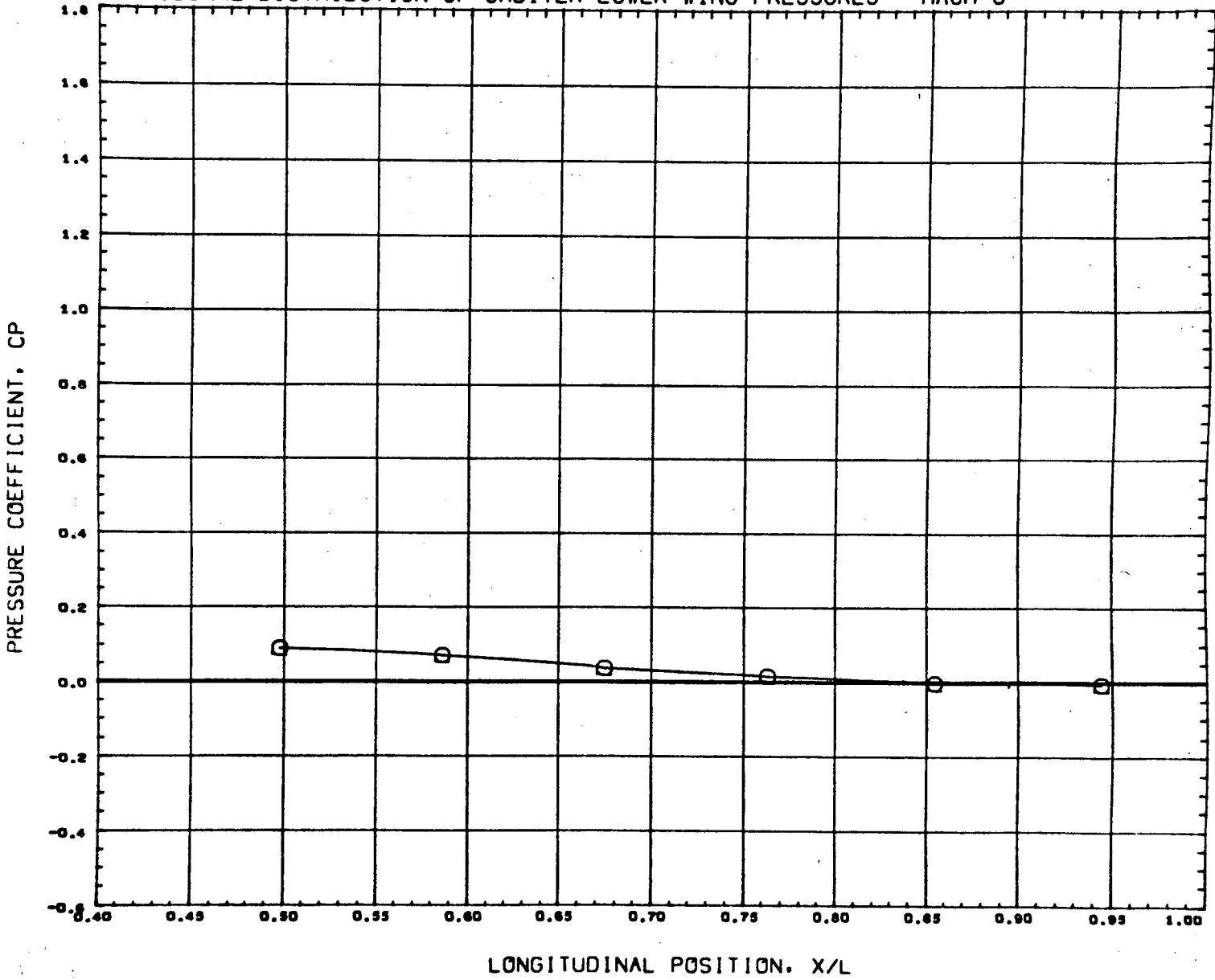
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 944

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.230	0.151

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

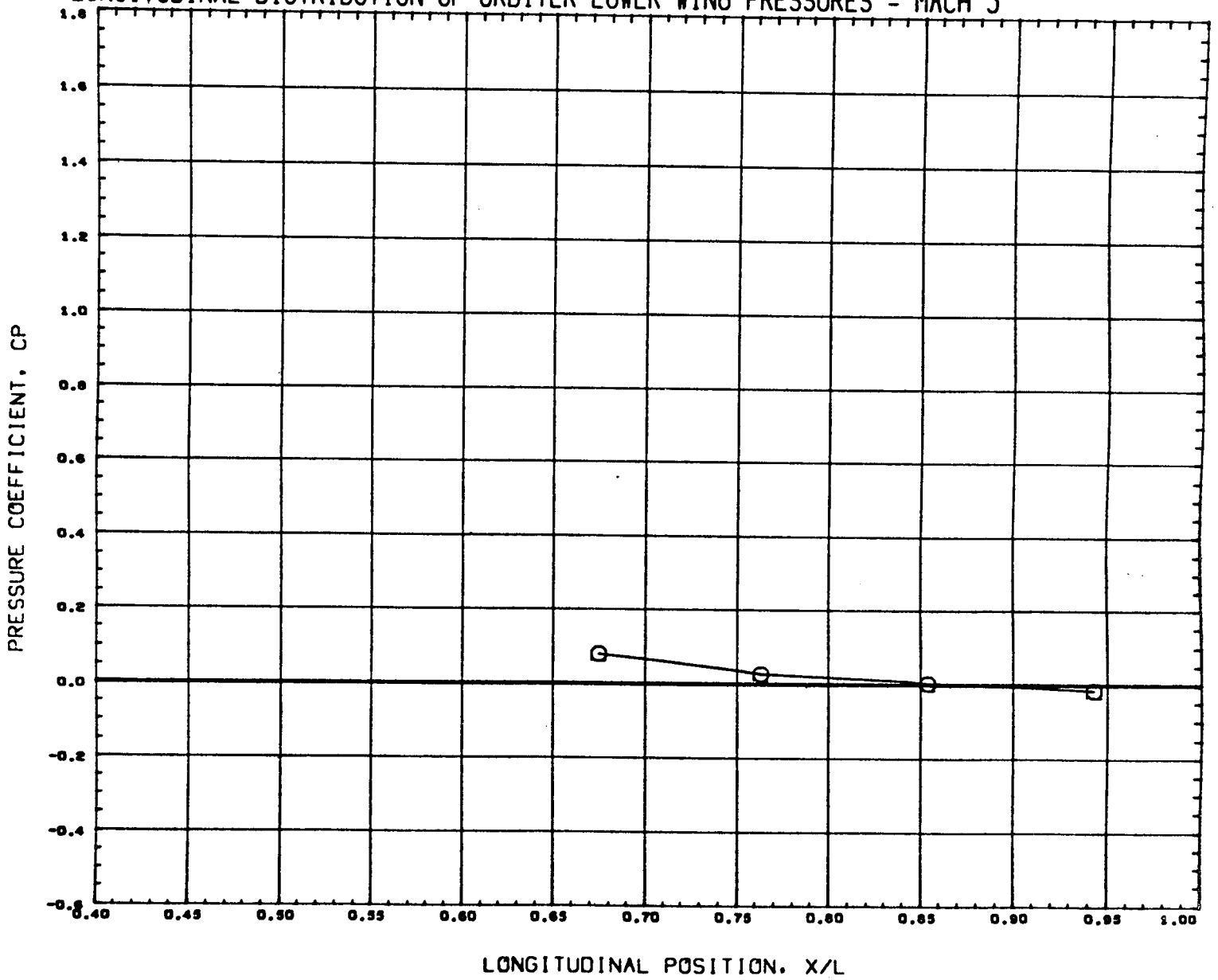
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 945

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.399	0.151

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

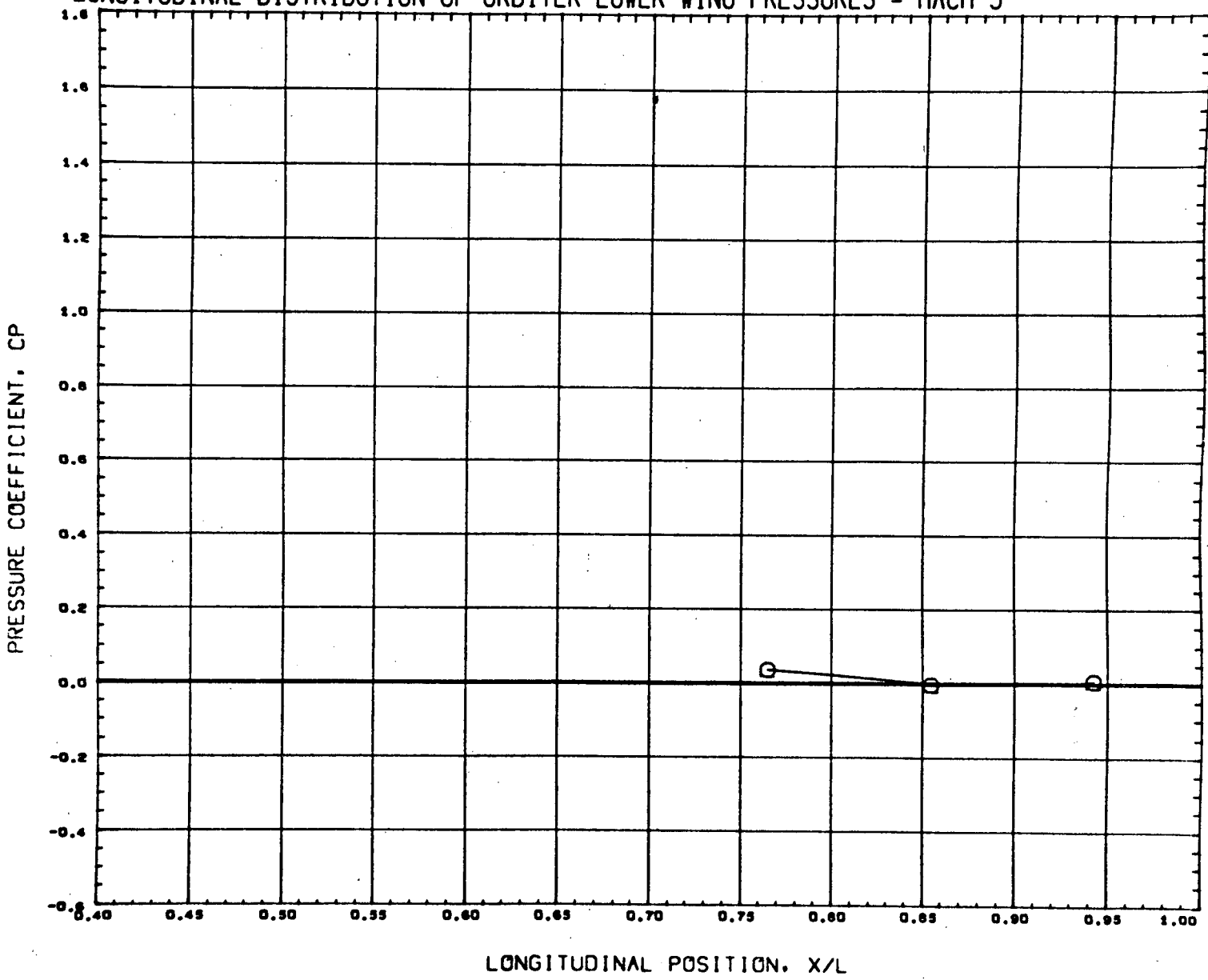
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL \circ DELTAX 0.103 Y/B 0.968 DELTAZ 0.151

PARAMETRIC VALUES
 ALPHAB - 4.908 MACH 4.970
 ALPHA1 0.000 ORBPOW 0.000
 SSTPOW 0.000

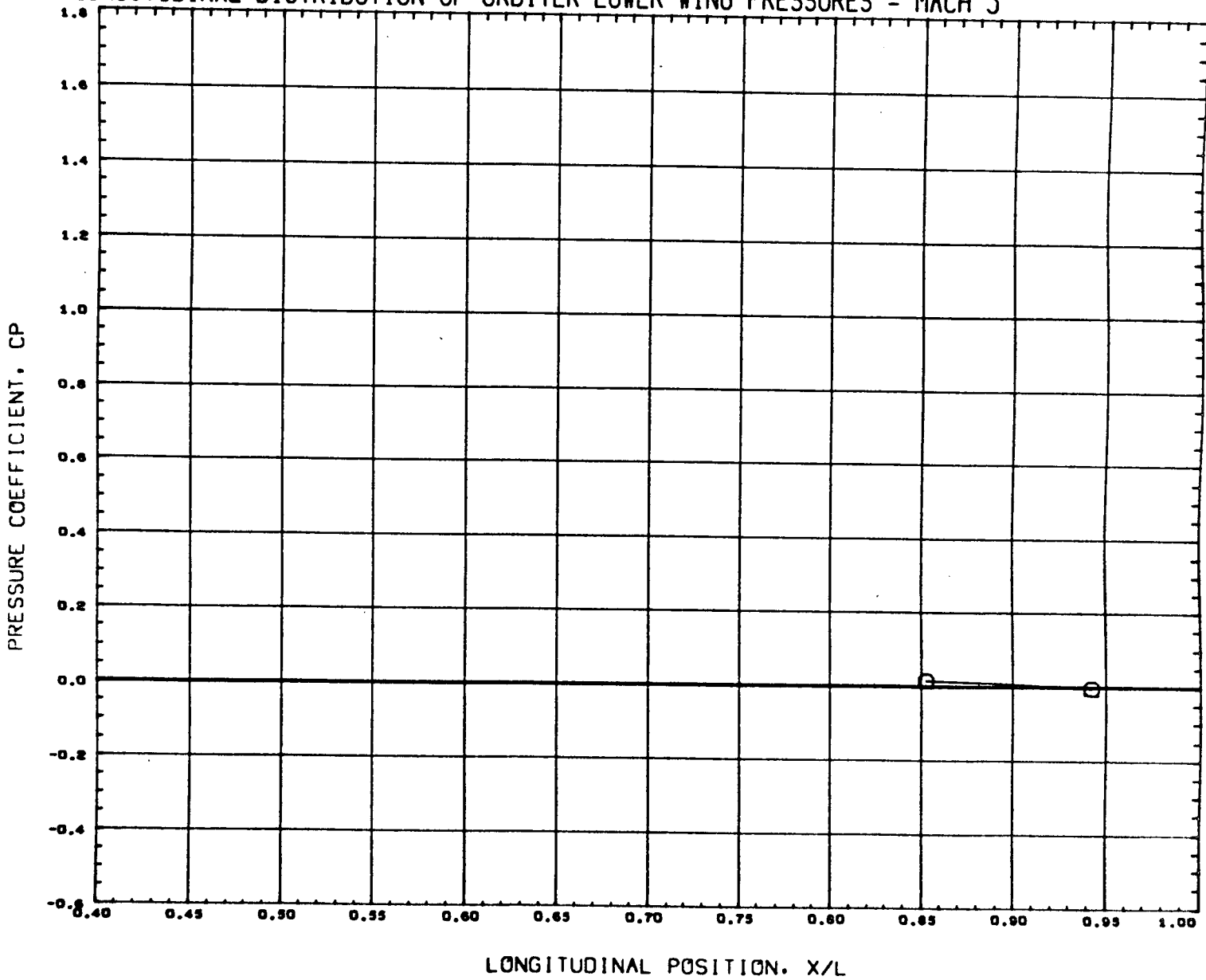
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 947

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.736	0.151

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

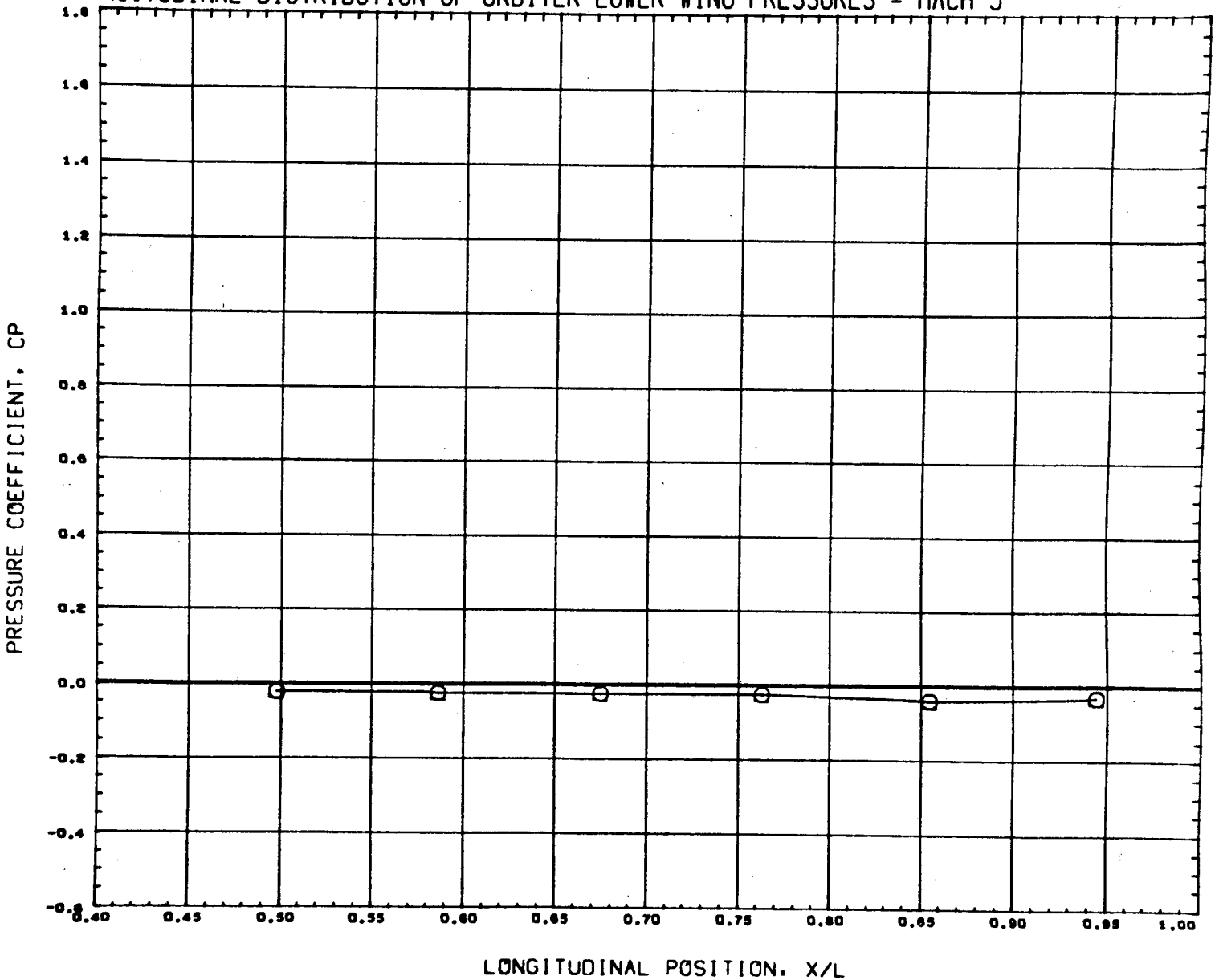
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.920 0.230 0.908

PARAMETRIC VALUES
 ALPHAB - 4.906 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 ESTPOW 0.000

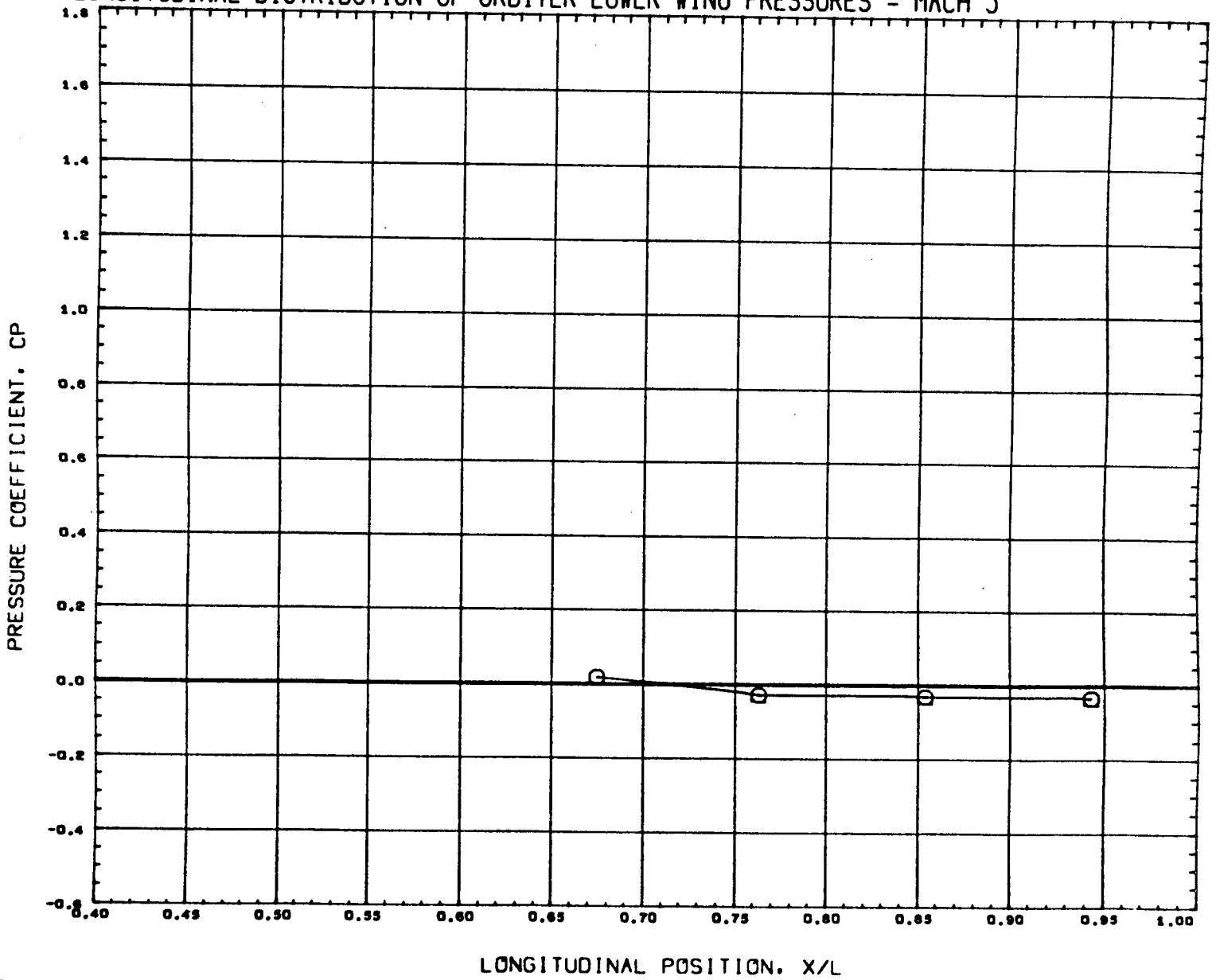
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.399	0.908

PARAMETRIC VALUES			
ALPHA B	- 4.906	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

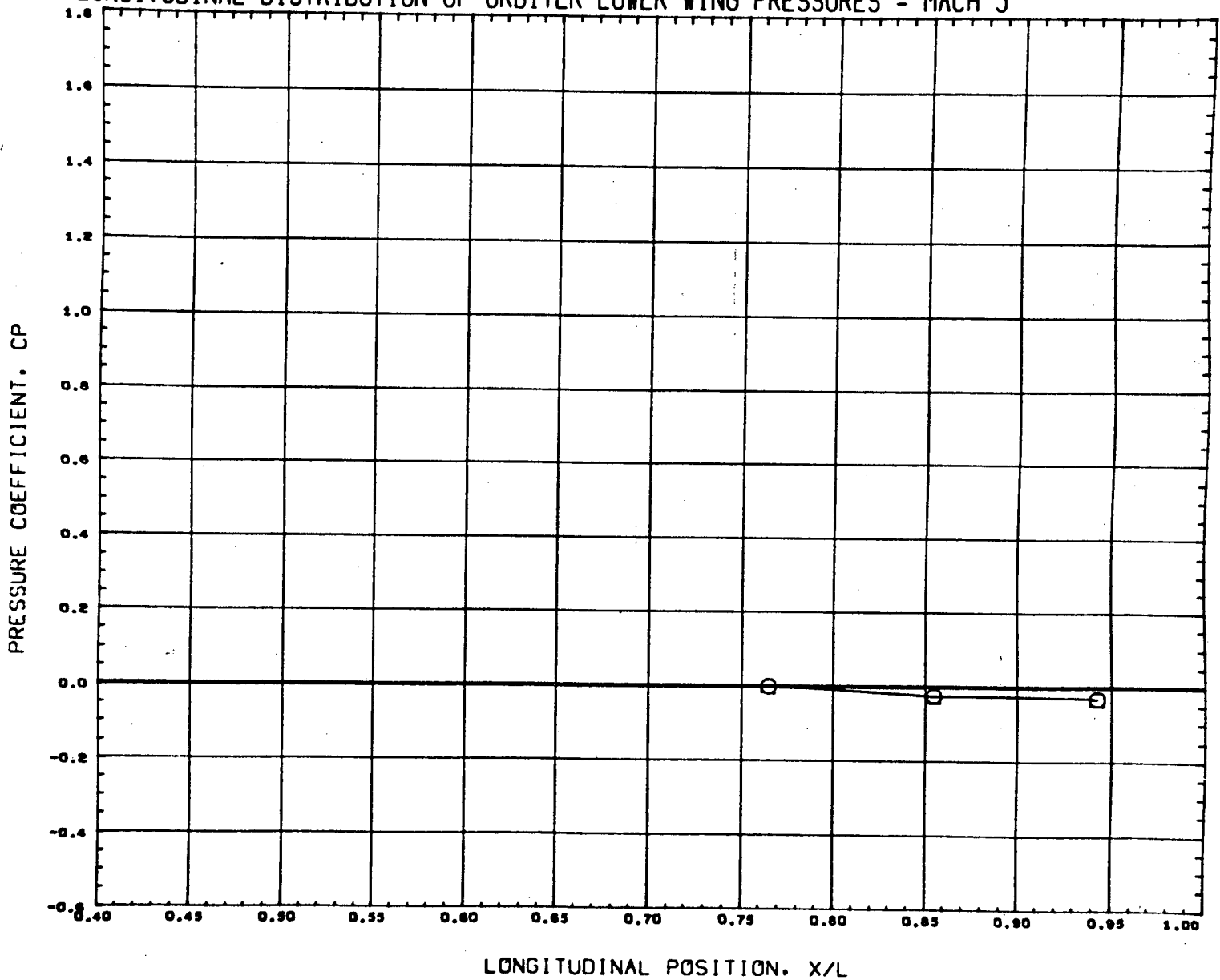
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AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.520 0.569 0.908

PARAMETRIC VALUES
 ALPHAB - 4.908 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

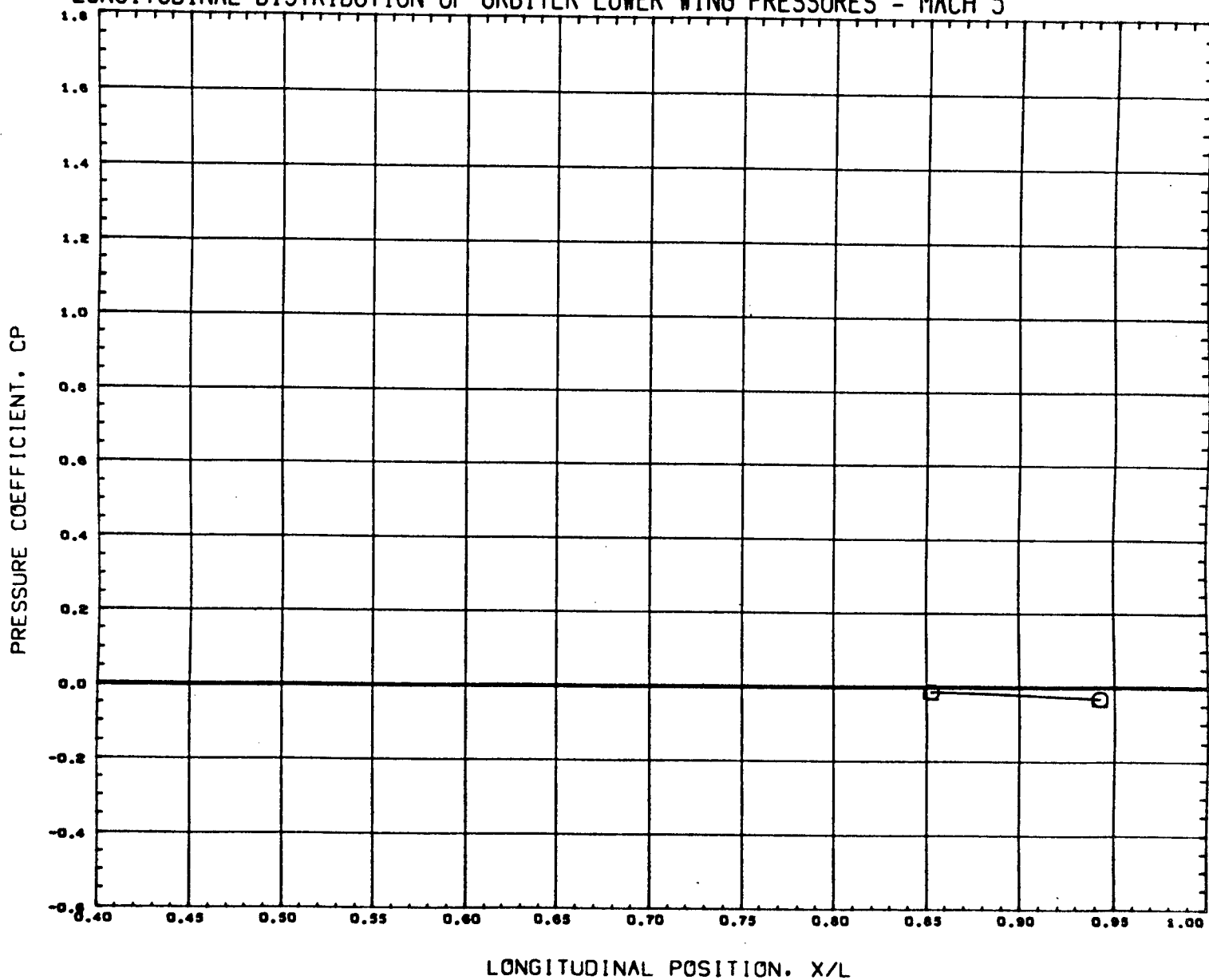
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 951

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.920 0.730 0.900

PARAMETRIC VALUES
 ALPHAB - 4.906 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

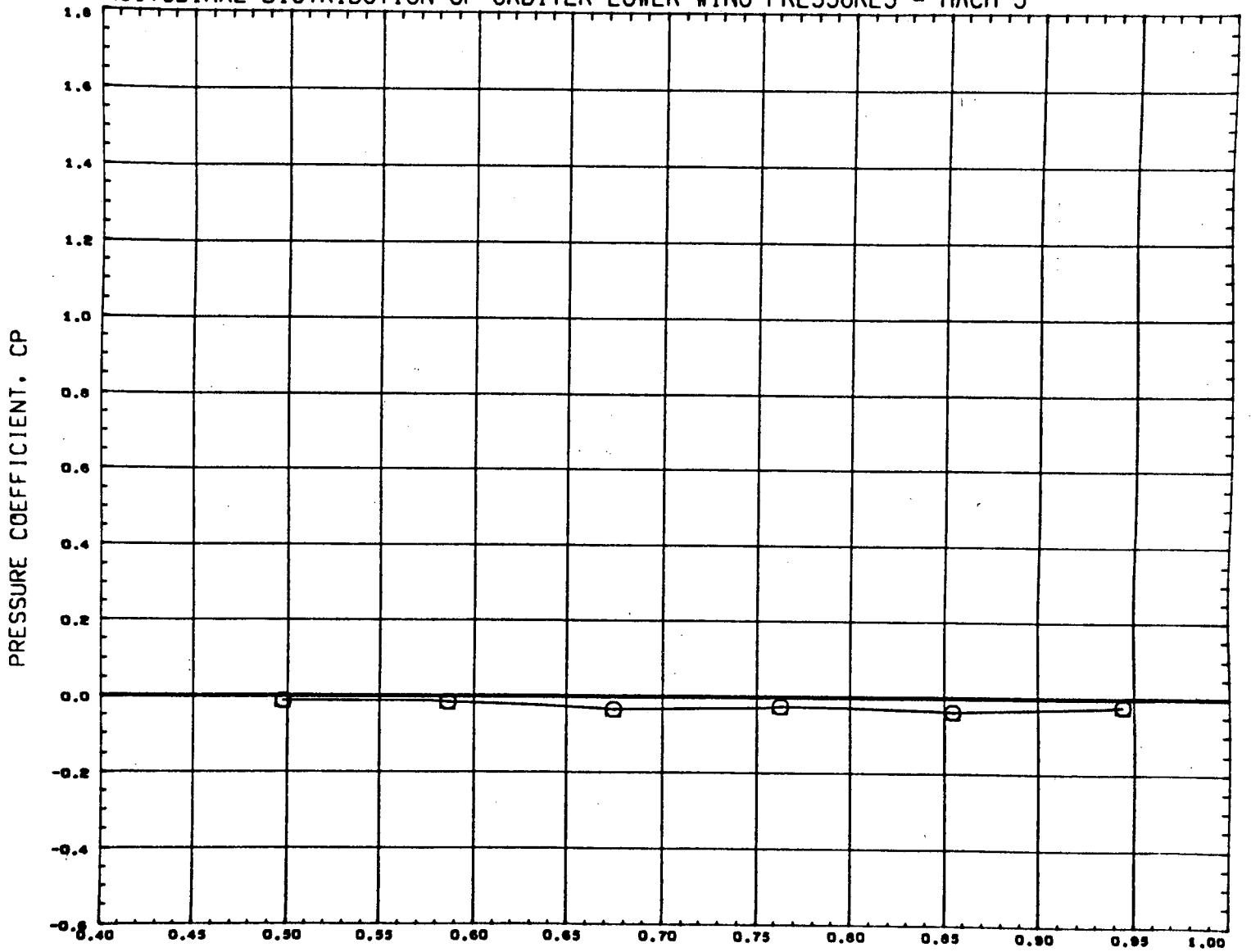
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8622•

PAGE 952

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.103 0.230 0.106

PARAMETRIC VALUES
 ALPHAB 0.030 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

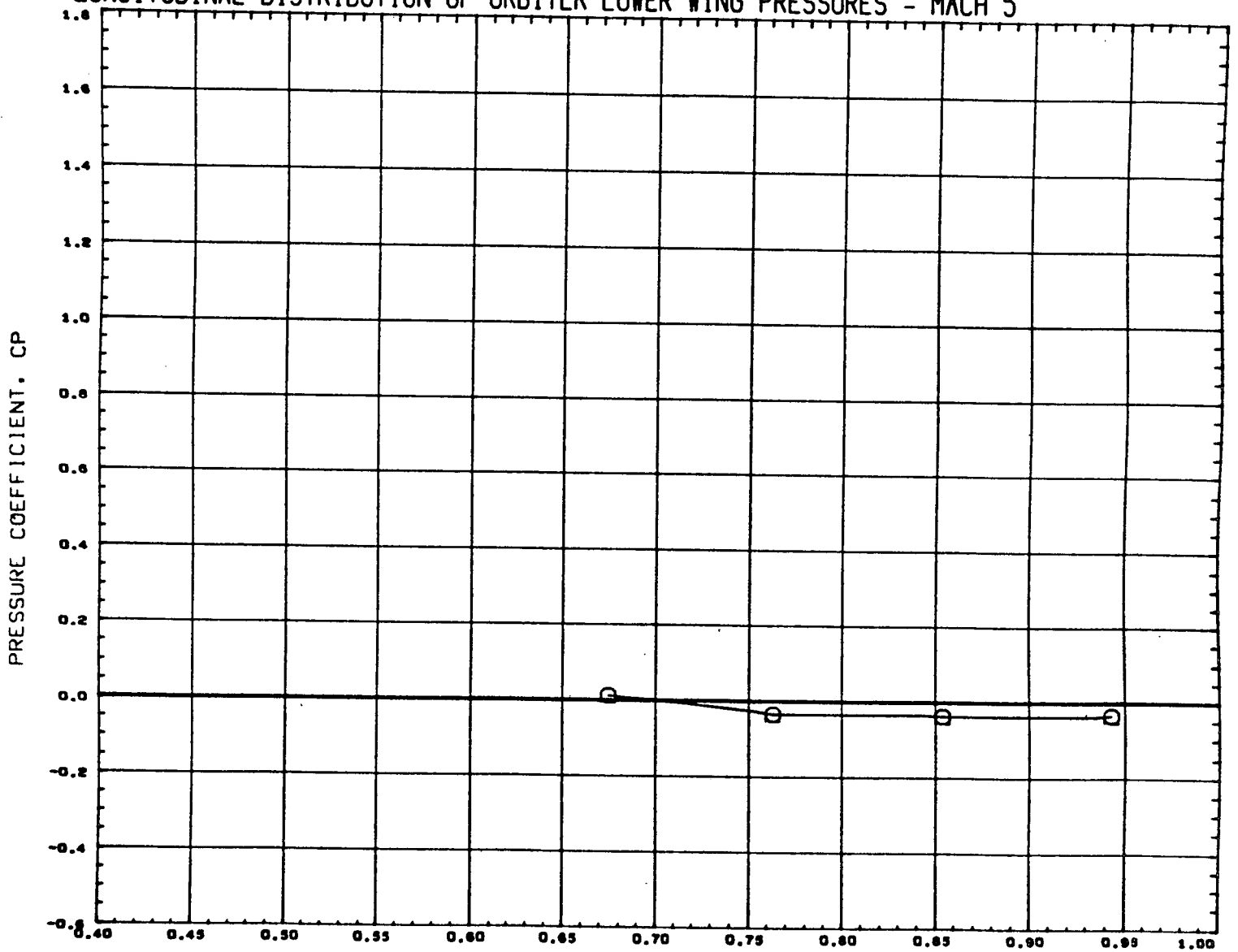
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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PAGE 953

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.103 0.399 0.106

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

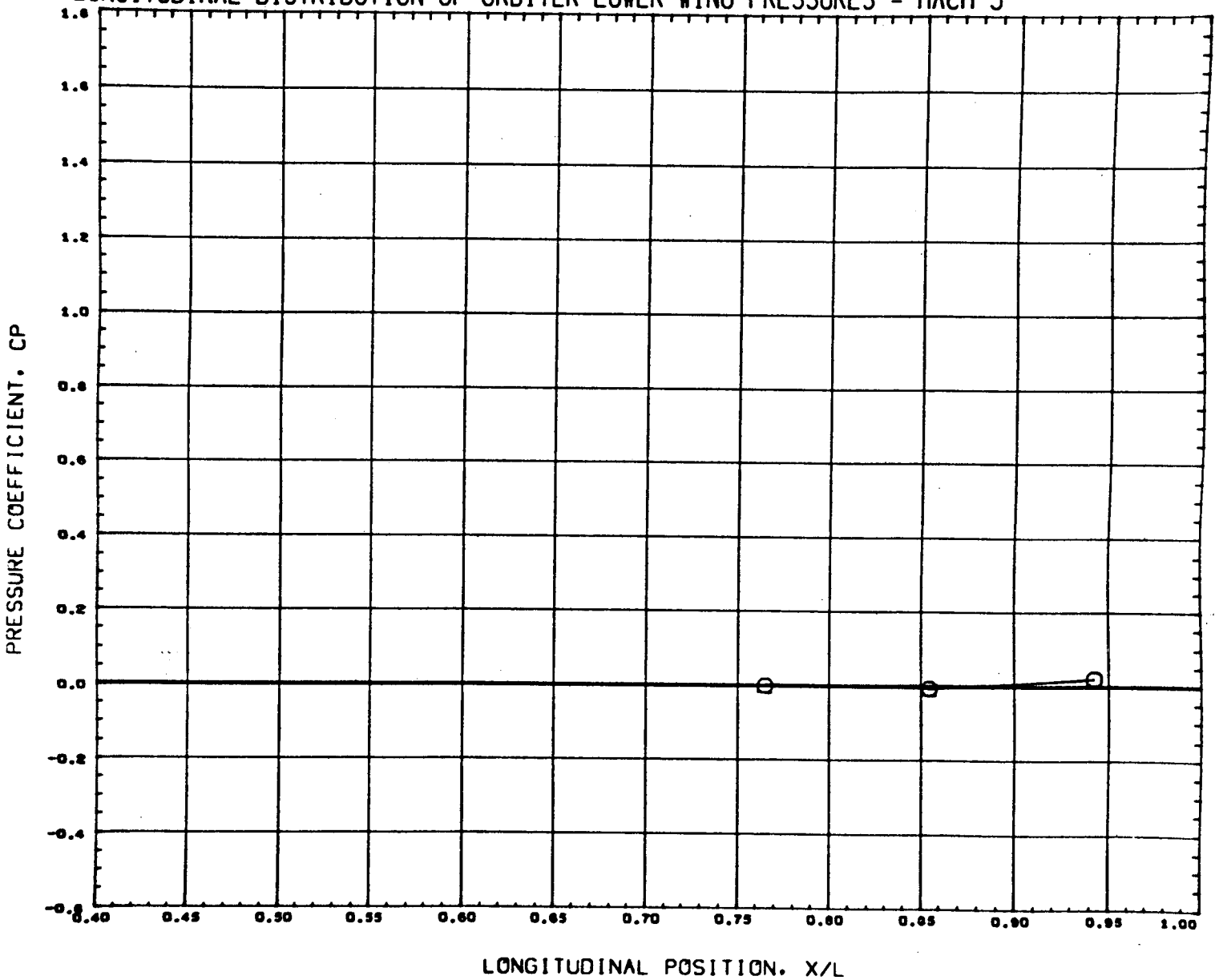
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 954

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 O 0.103 0.568 0.108

PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

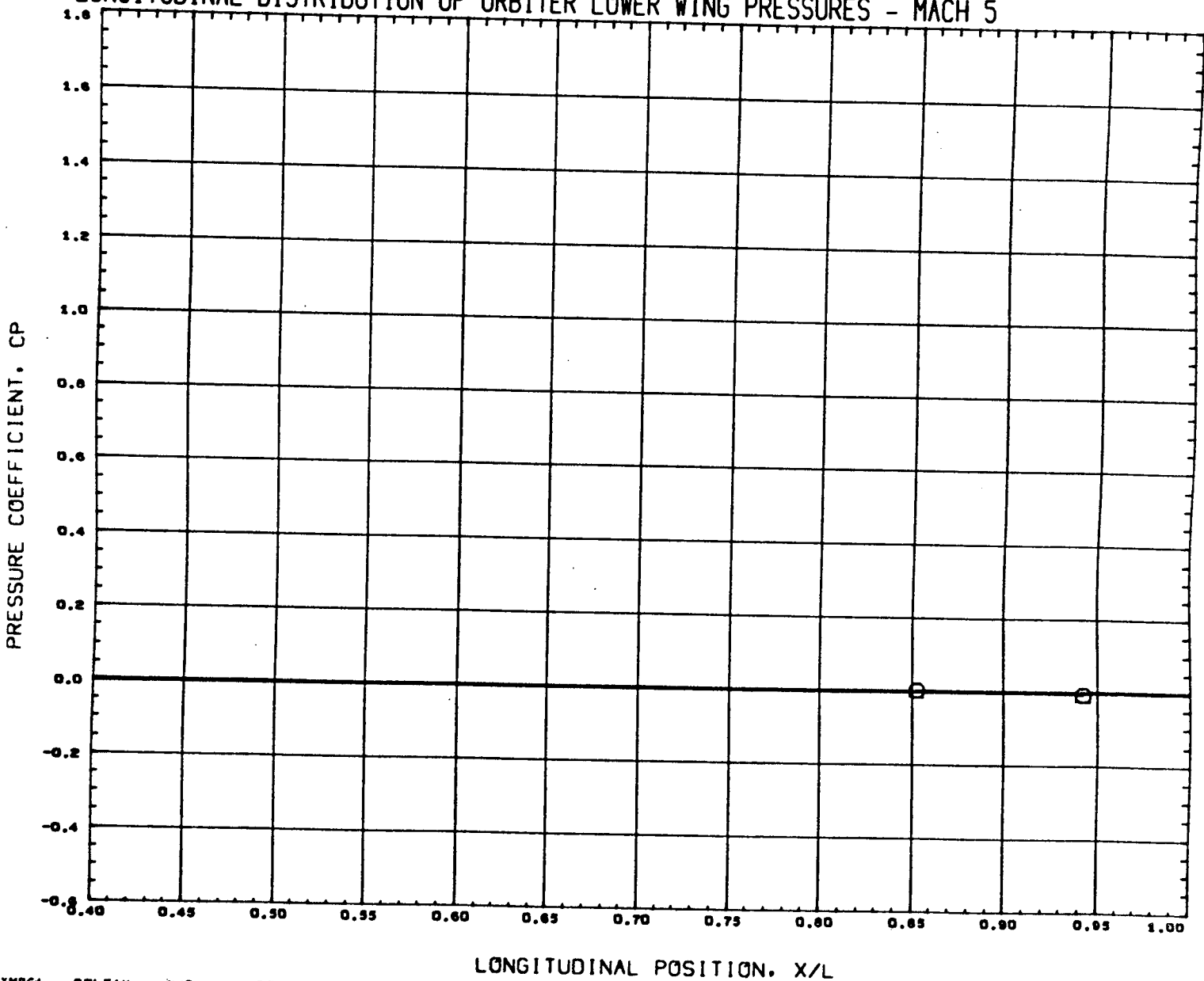
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 955

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.738	0.106

PARAMETRIC VALUES			
ALPHAB	0.030	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

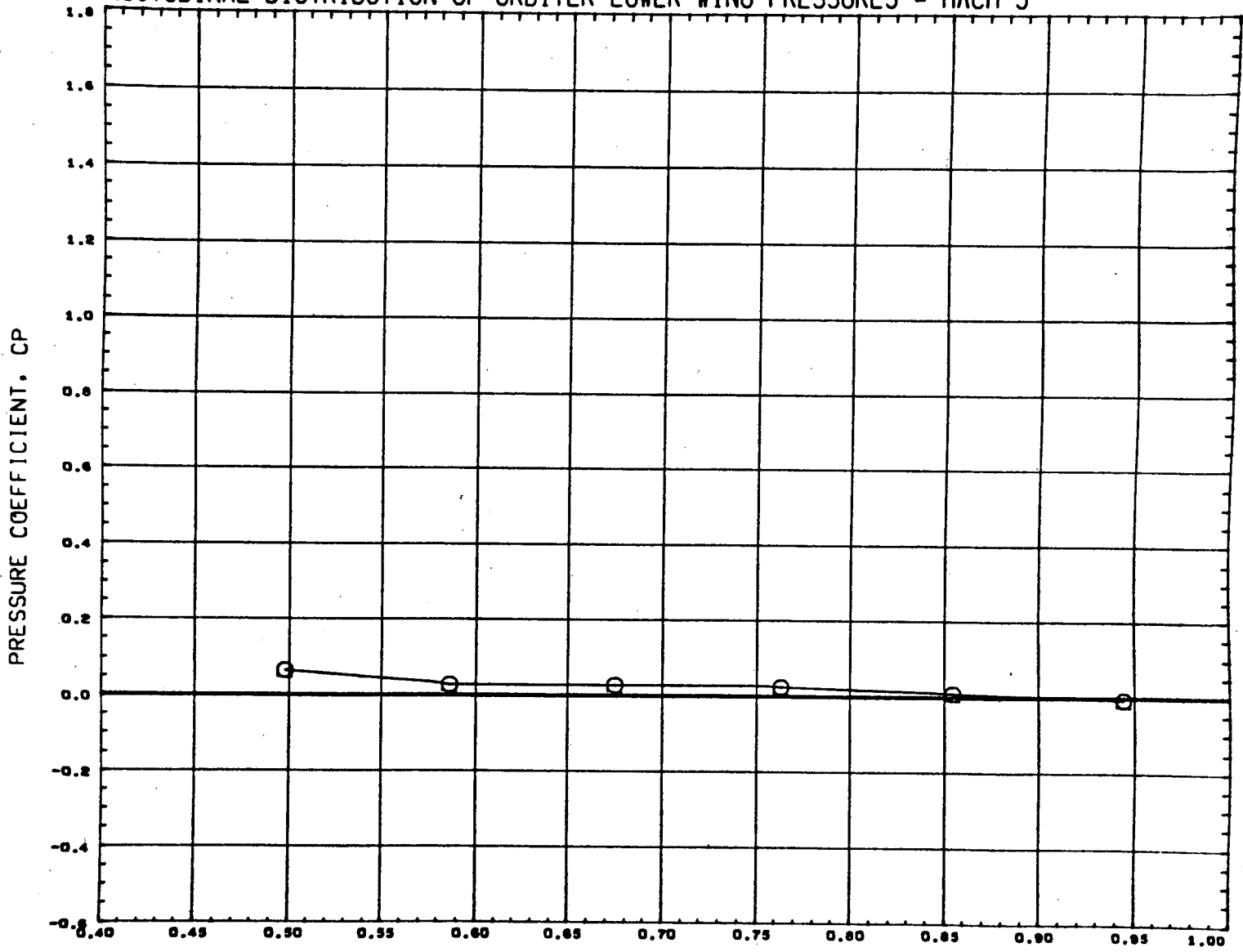
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 956

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.230	0.151

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

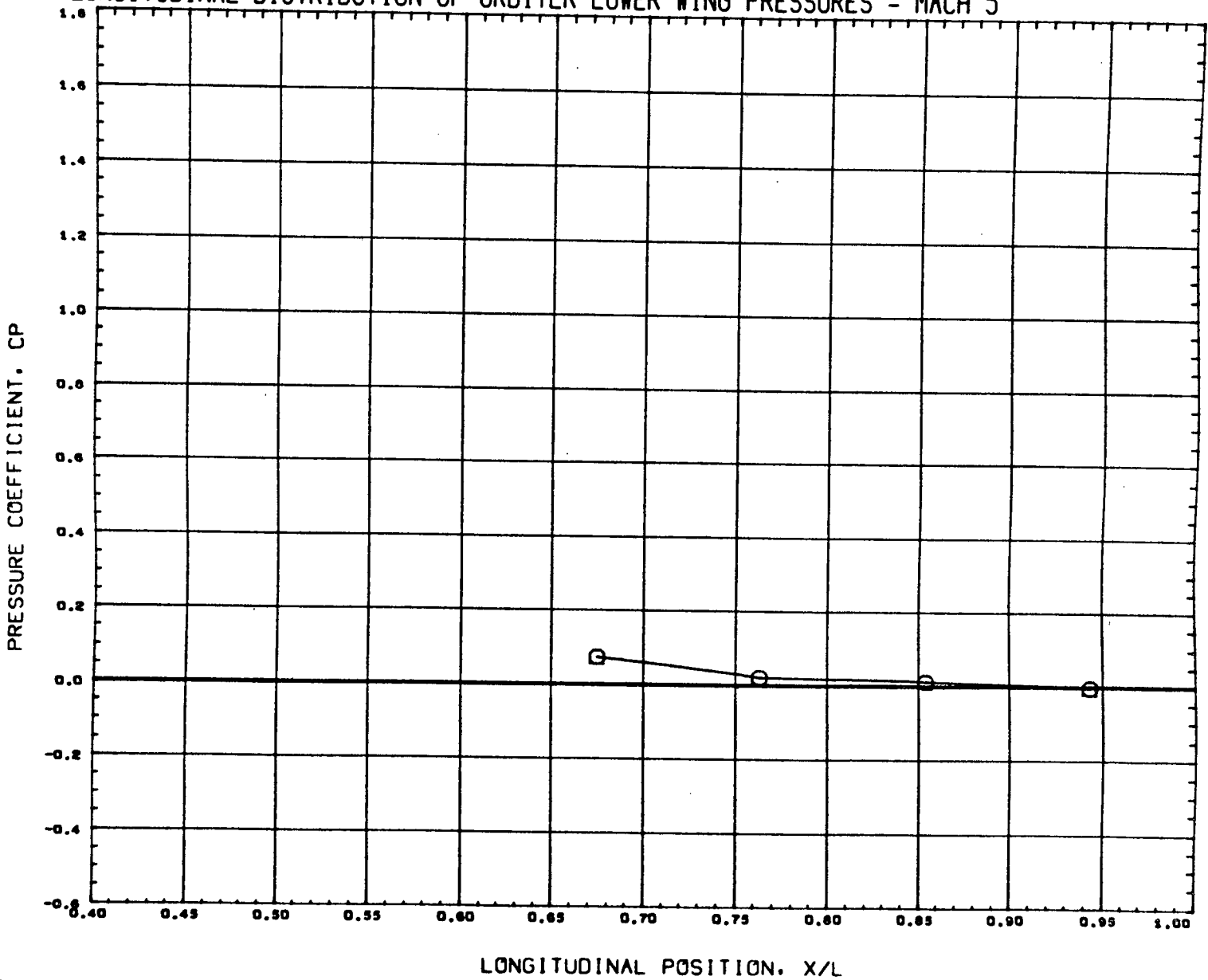
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 957

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.399	0.131

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

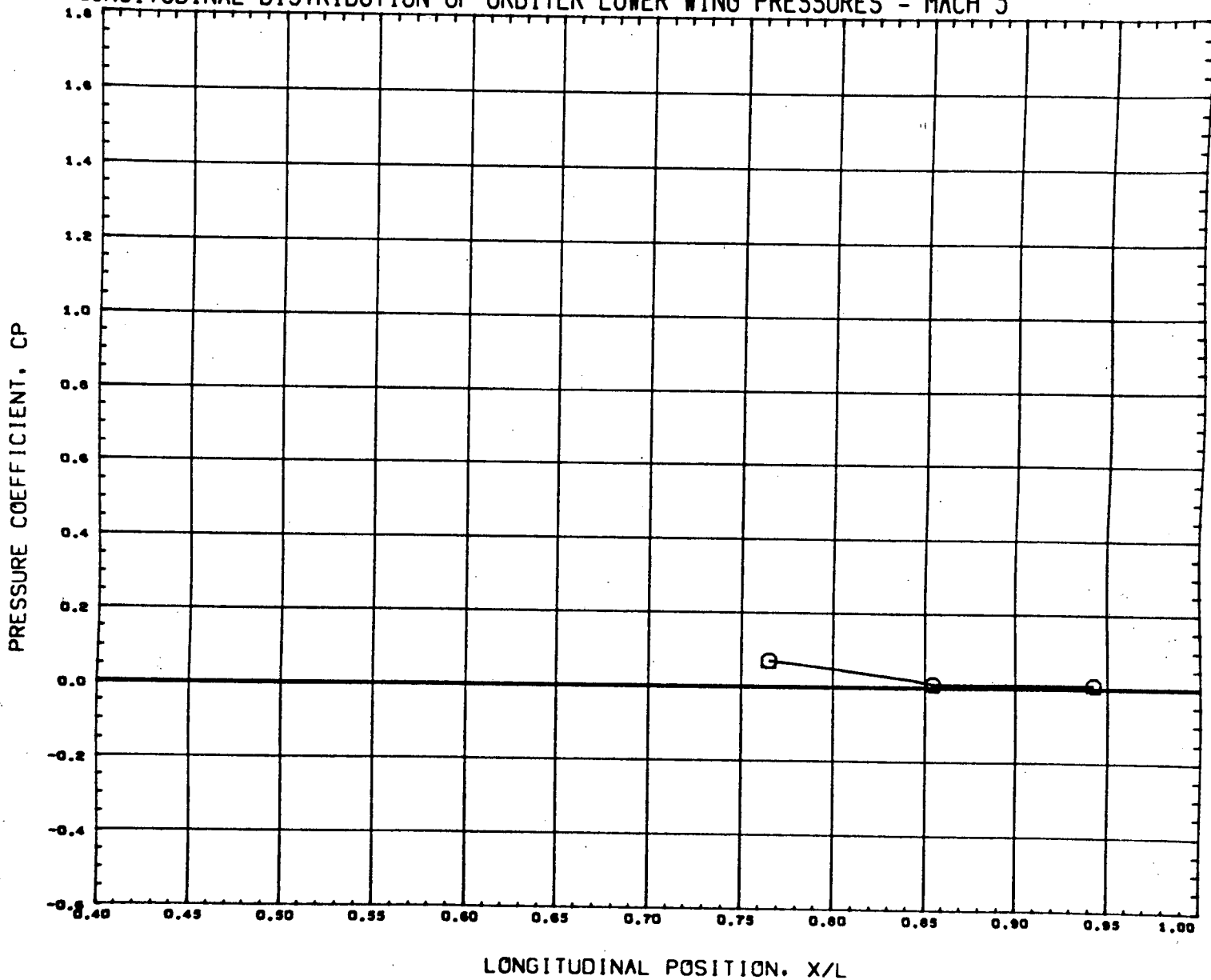
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 958

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.966	0.151

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

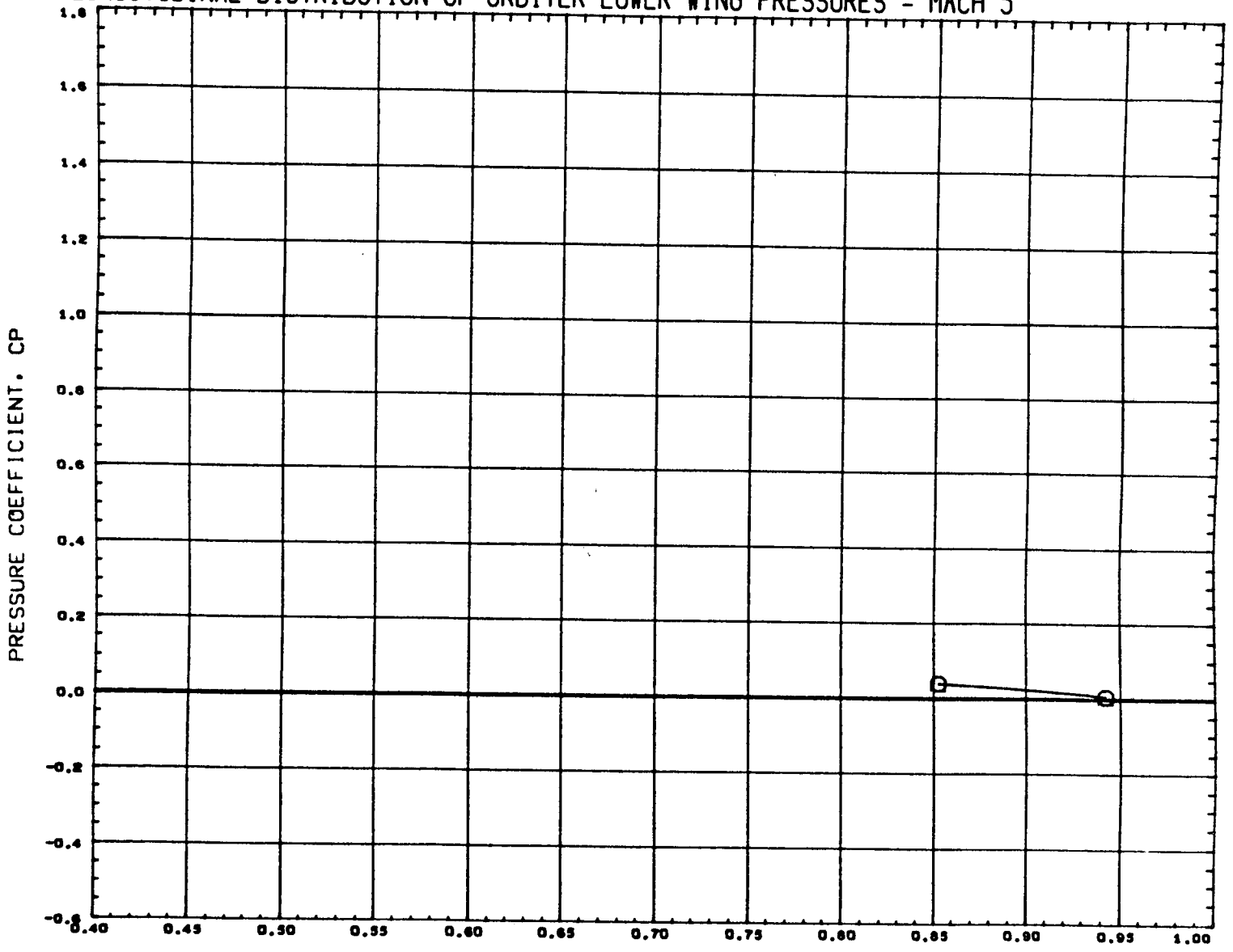
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 959

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.738	0.151

PARAMETRIC VALUES			
ALPHA B	0.050	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

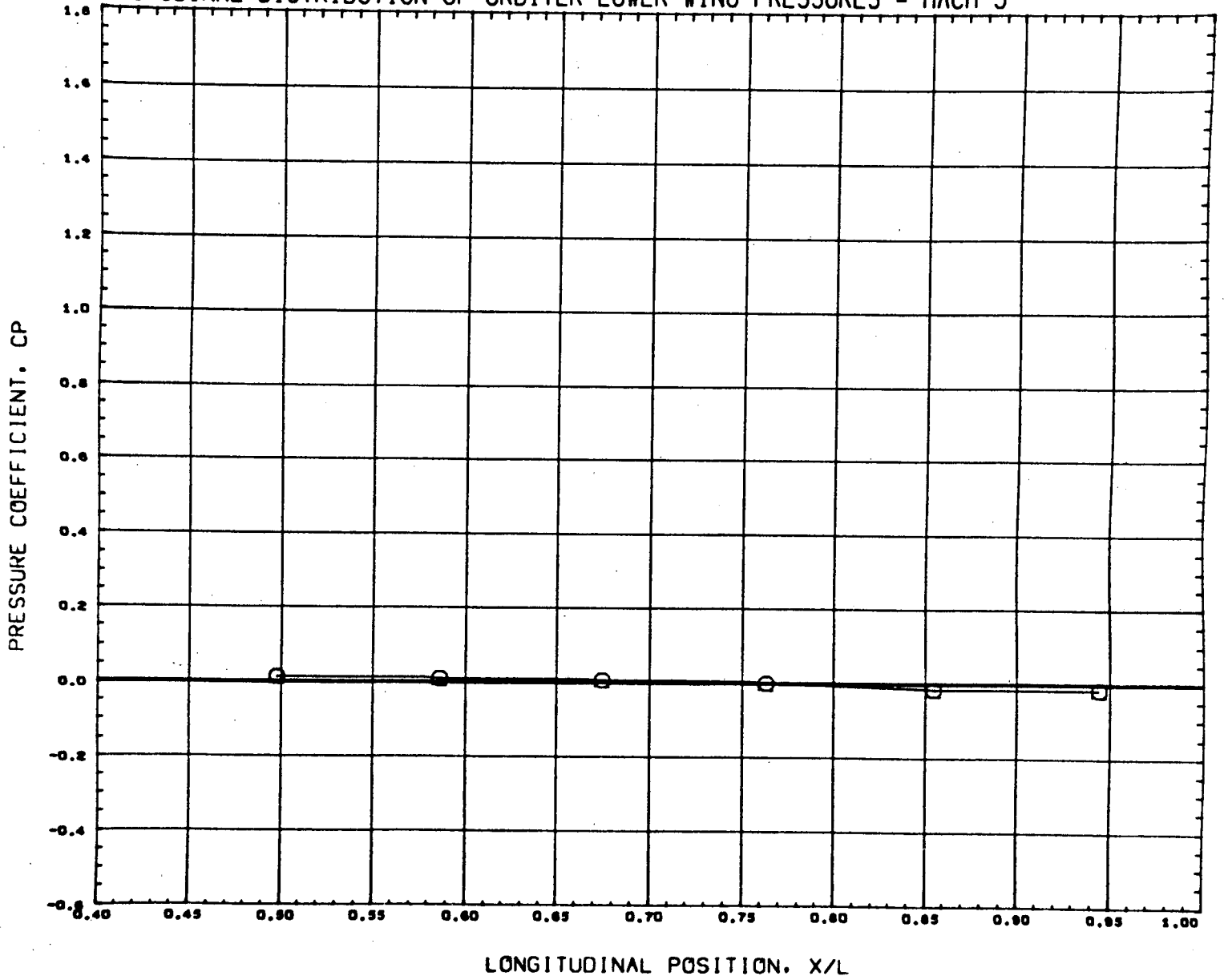
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 960

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL \circ DELTAX 0.520 Y/B 0.230 DELTAZ 0.908

PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 SSTPOW 0.000

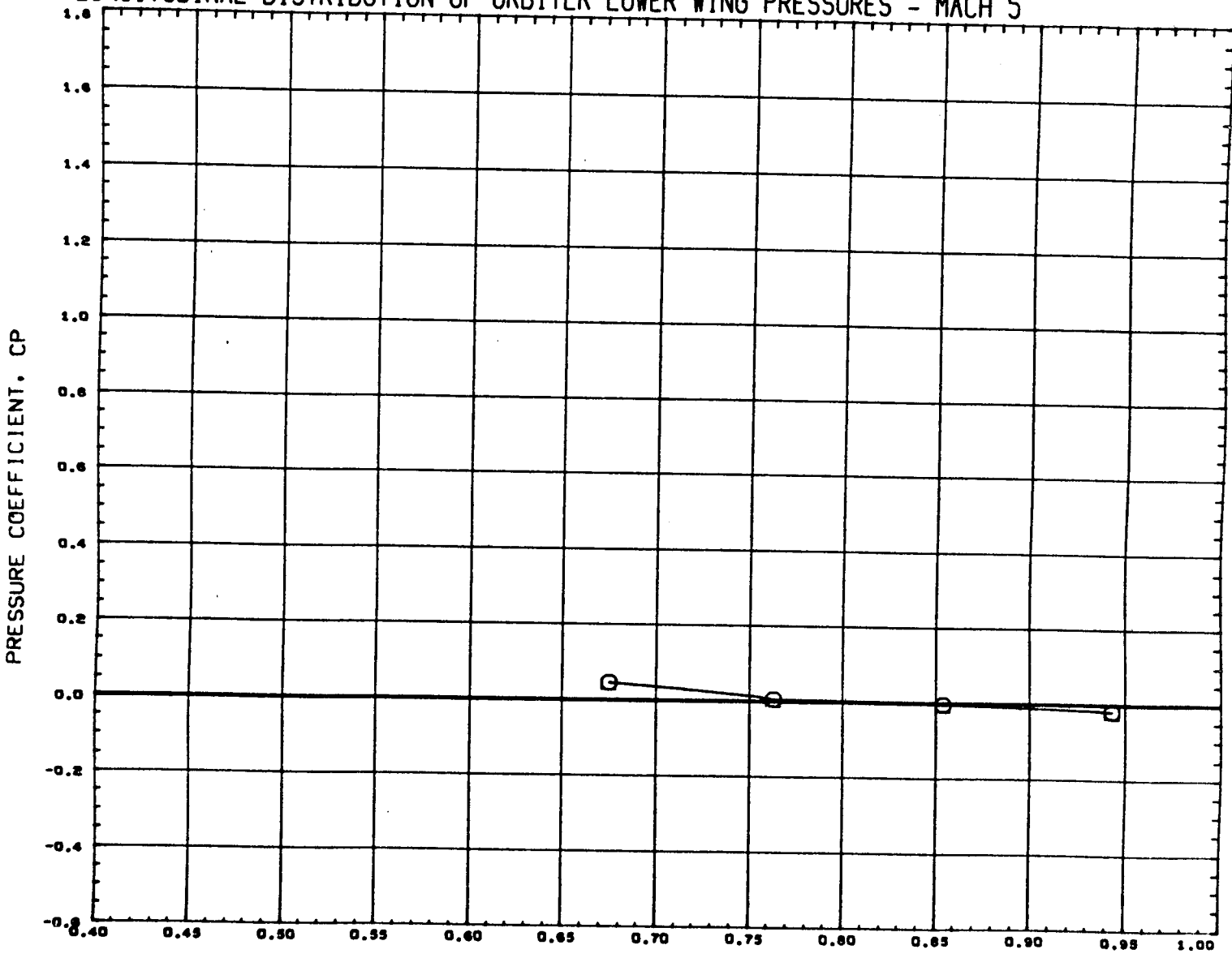
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 961

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 ○ 0.920 0.399 0.928

PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 SSTPOW 0.000

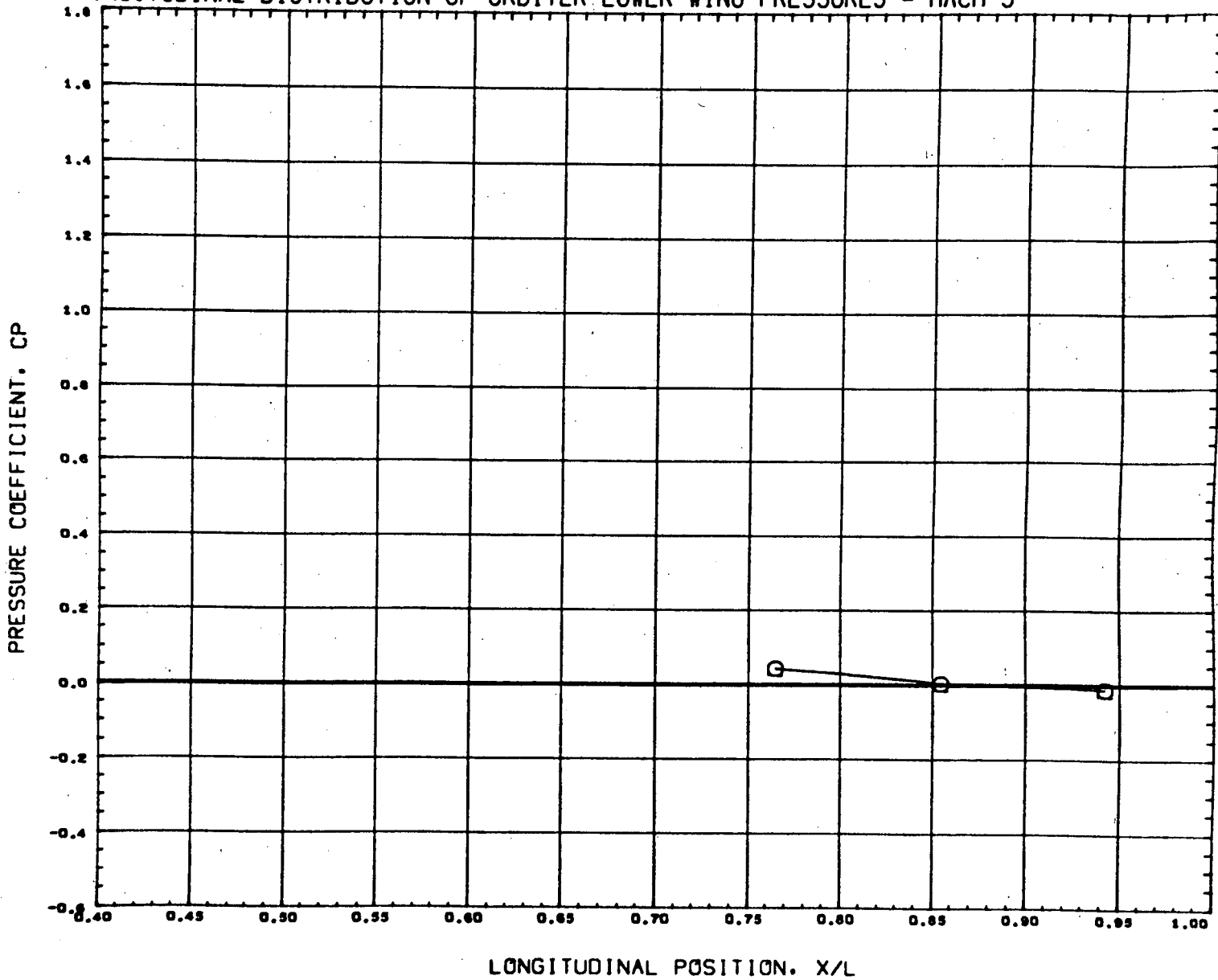
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 962

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.520 0.566 0.908

PARAMETRIC VALUES
 ALPHAS 0.030 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 SSTPOW 0.000

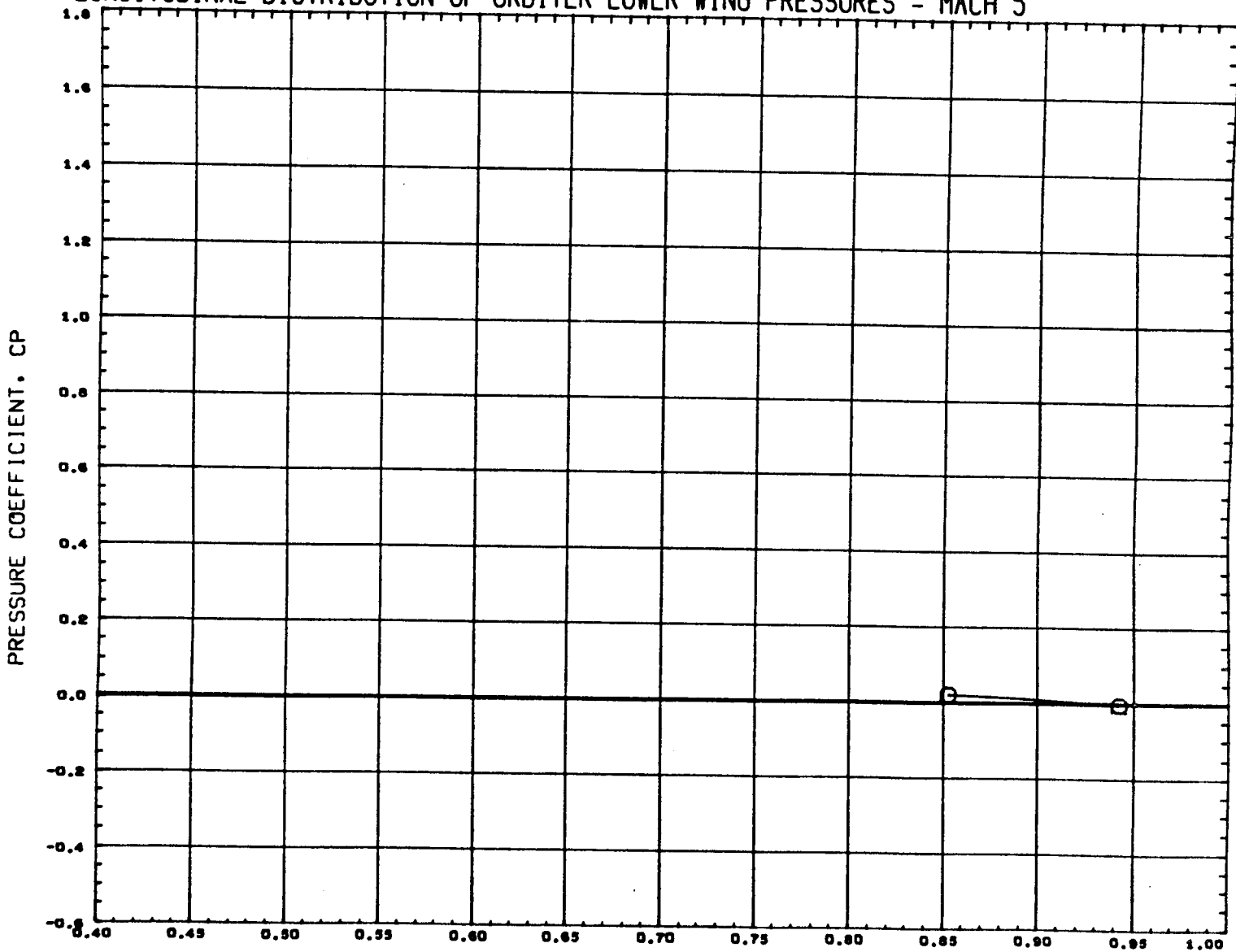
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 963

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.736	0.906

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.970
ALPHAT	0.000	ORBPOW	0.000
BSTPOW	0.000		

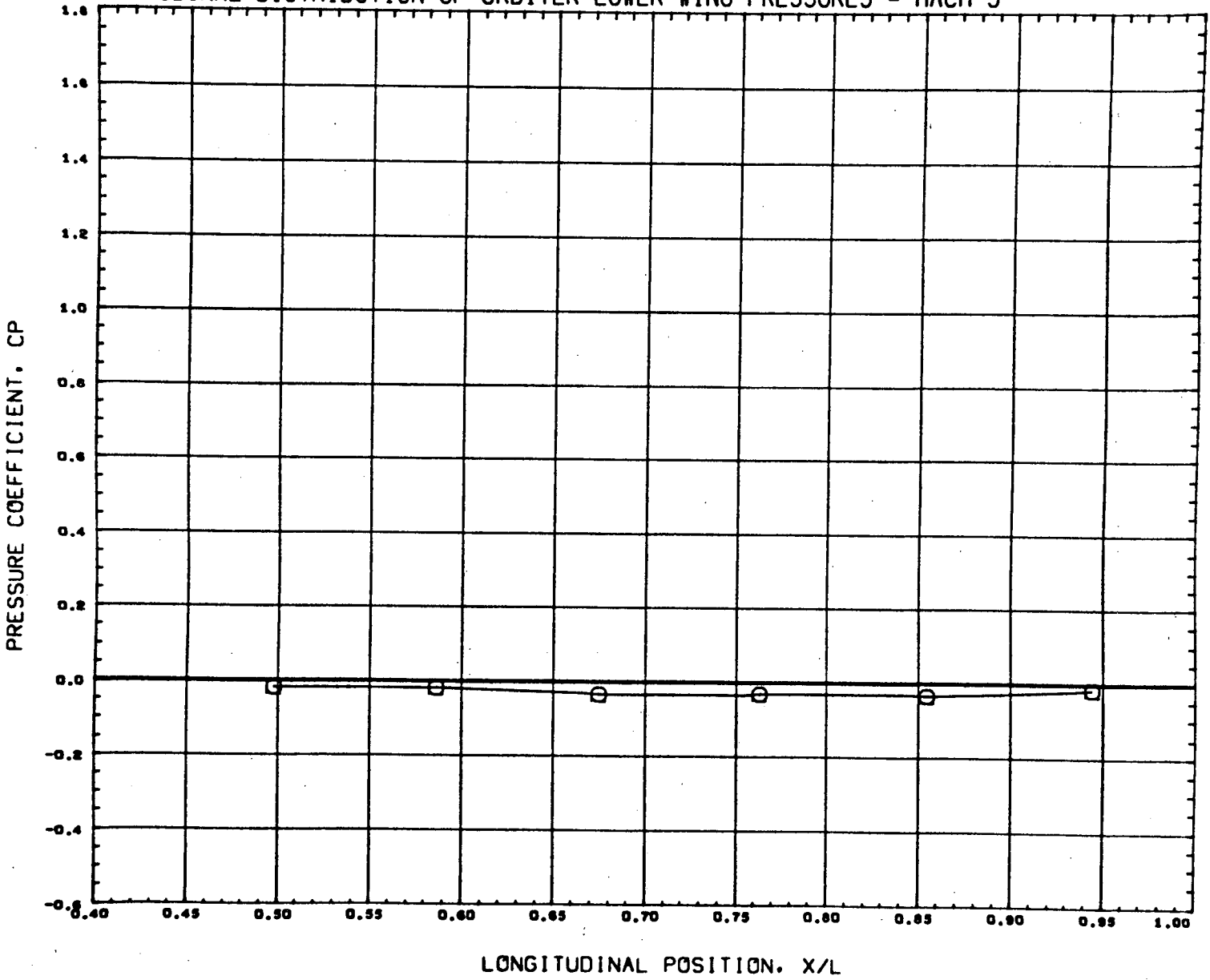
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8623•

PAGE 964

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.103 0.230 0.106

PARAMETRIC VALUES
 ALPHAB 5.026 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 SSTPOW 0.000

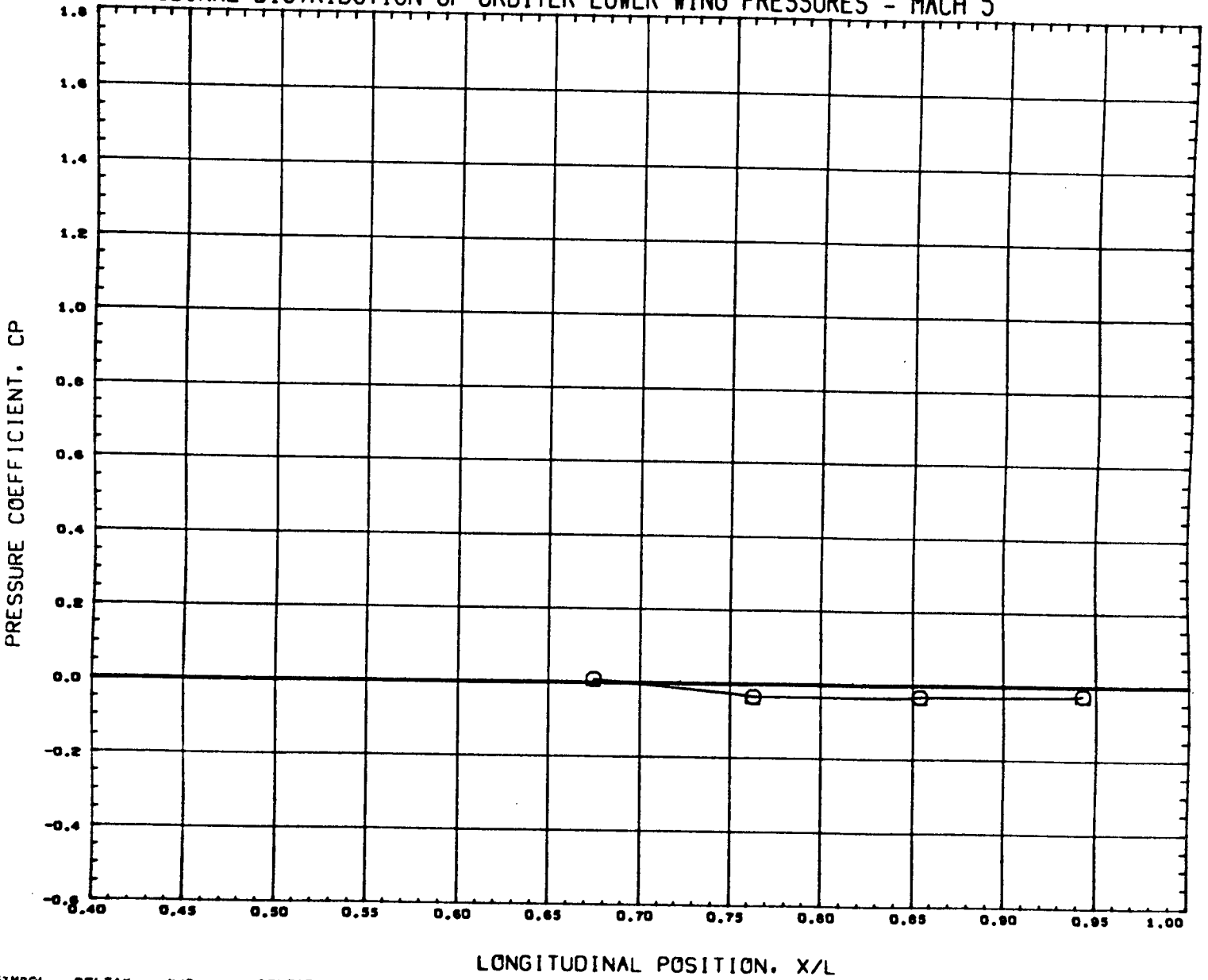
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 965

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL \bigcirc DELTAX 0.103 Y/B 0.399 DELTAZ 0.106

PARAMETRIC VALUES
 ALPHAB 5.026 MACH 4.970
 ALPHA1 0.000 ORBPOW 0.000
 BSTPOW 0.000

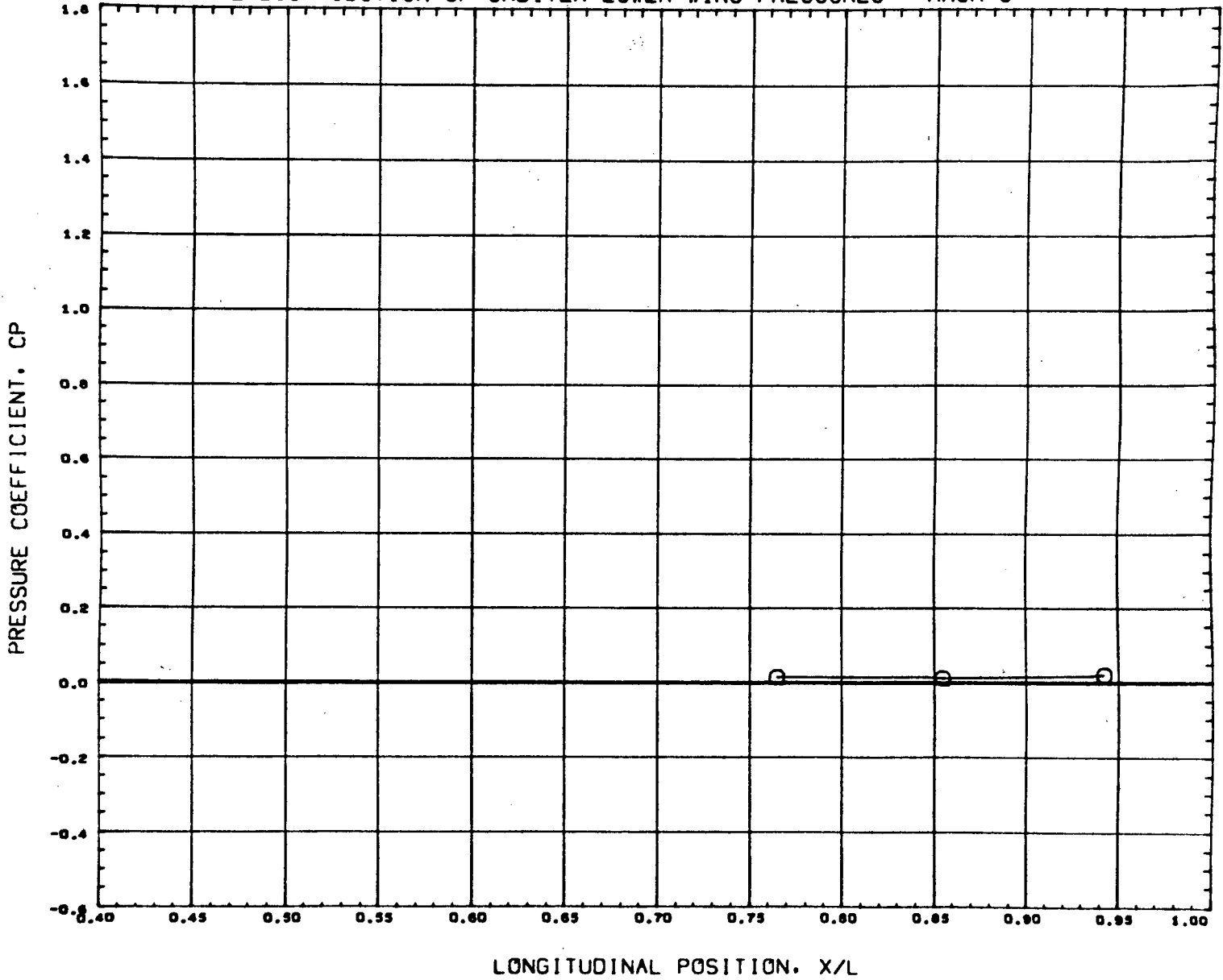
REFERENCE FILE

AEOC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 966

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.568	0.106

PARAMETRIC VALUES			
ALPHA B	9.026	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

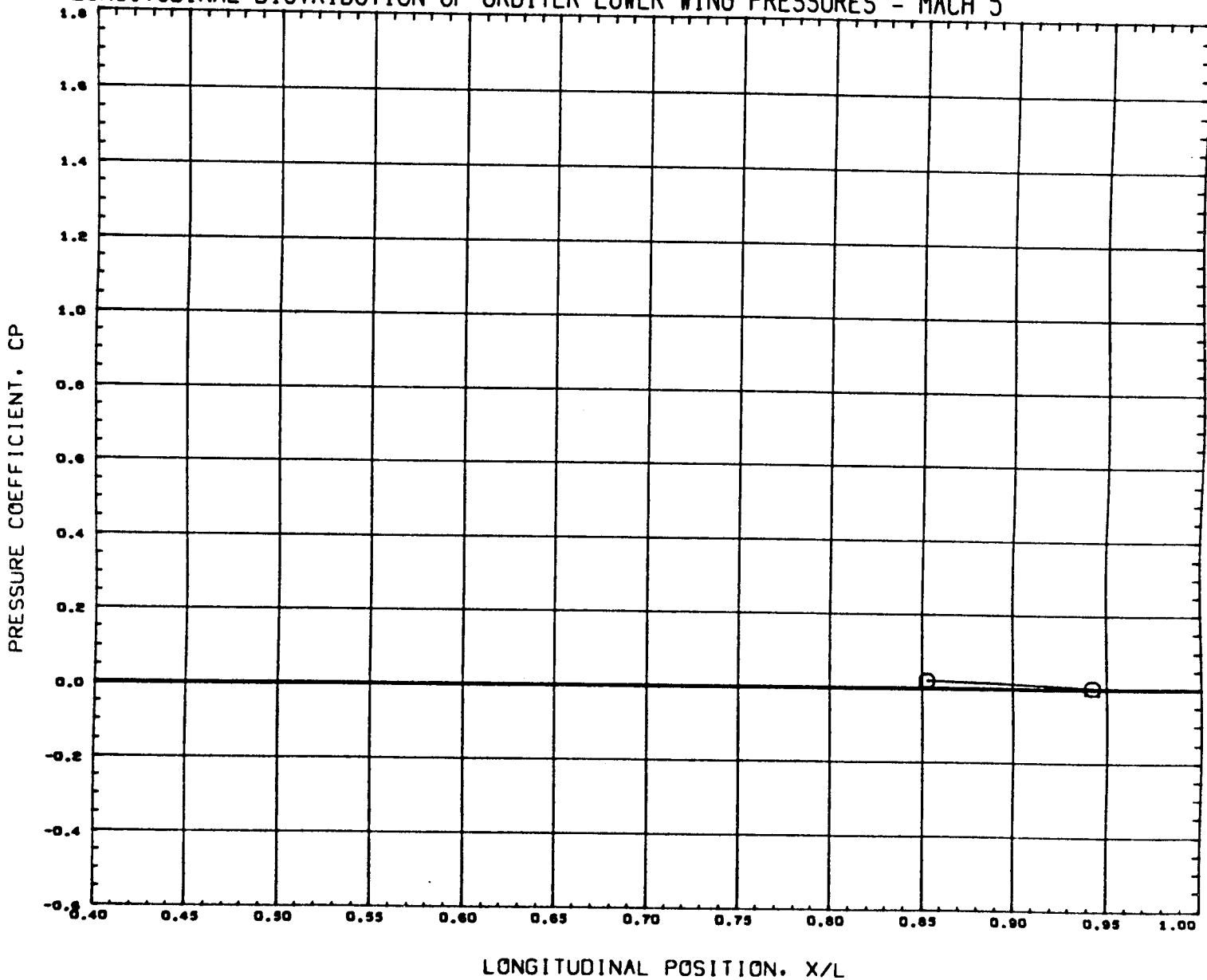
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.739	0.106

PARAMETRIC VALUES			
ALPHAB	5.026	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

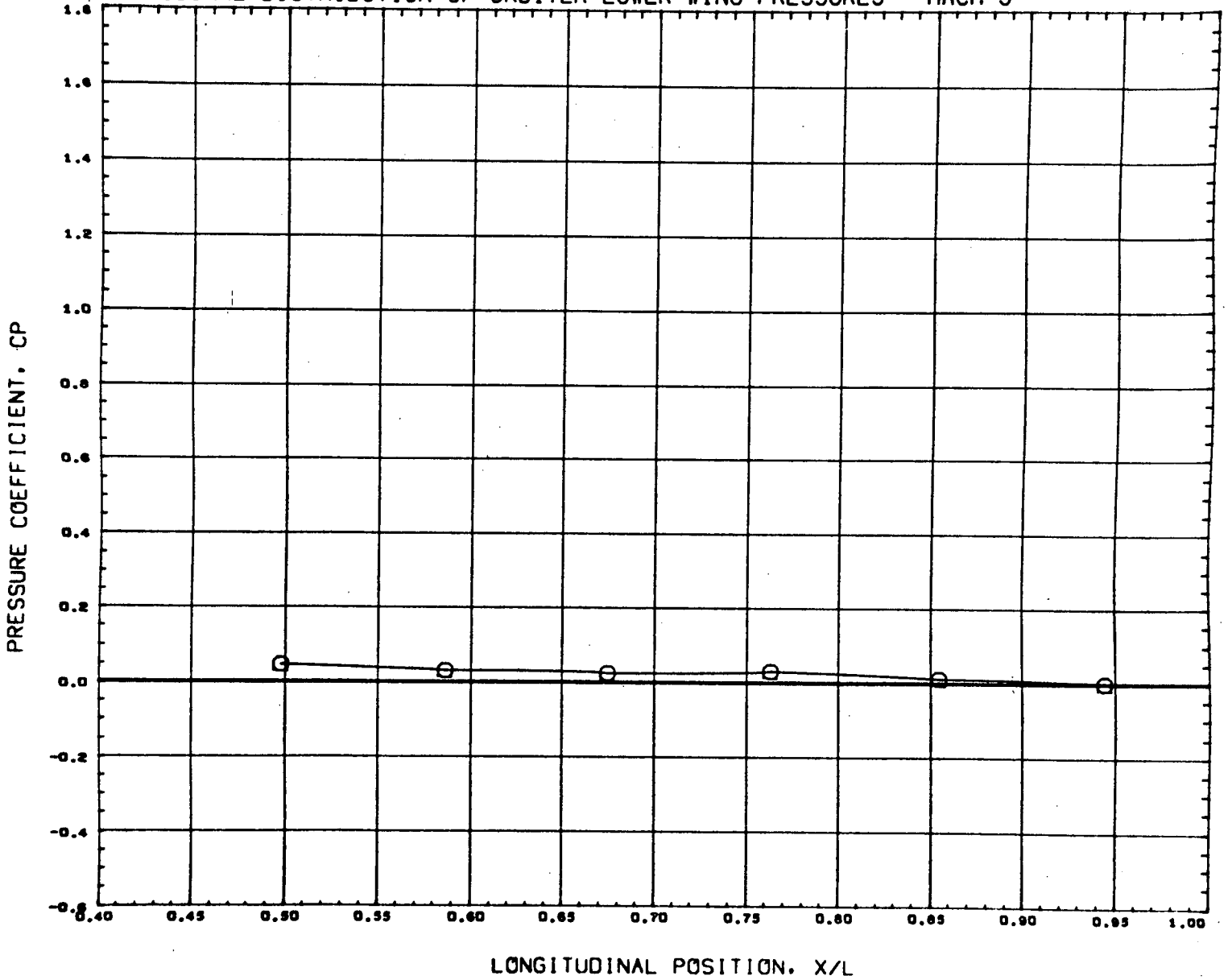
REFERENCE FILE

AECC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.230	0.151

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES			
ALPHAB	5.026	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

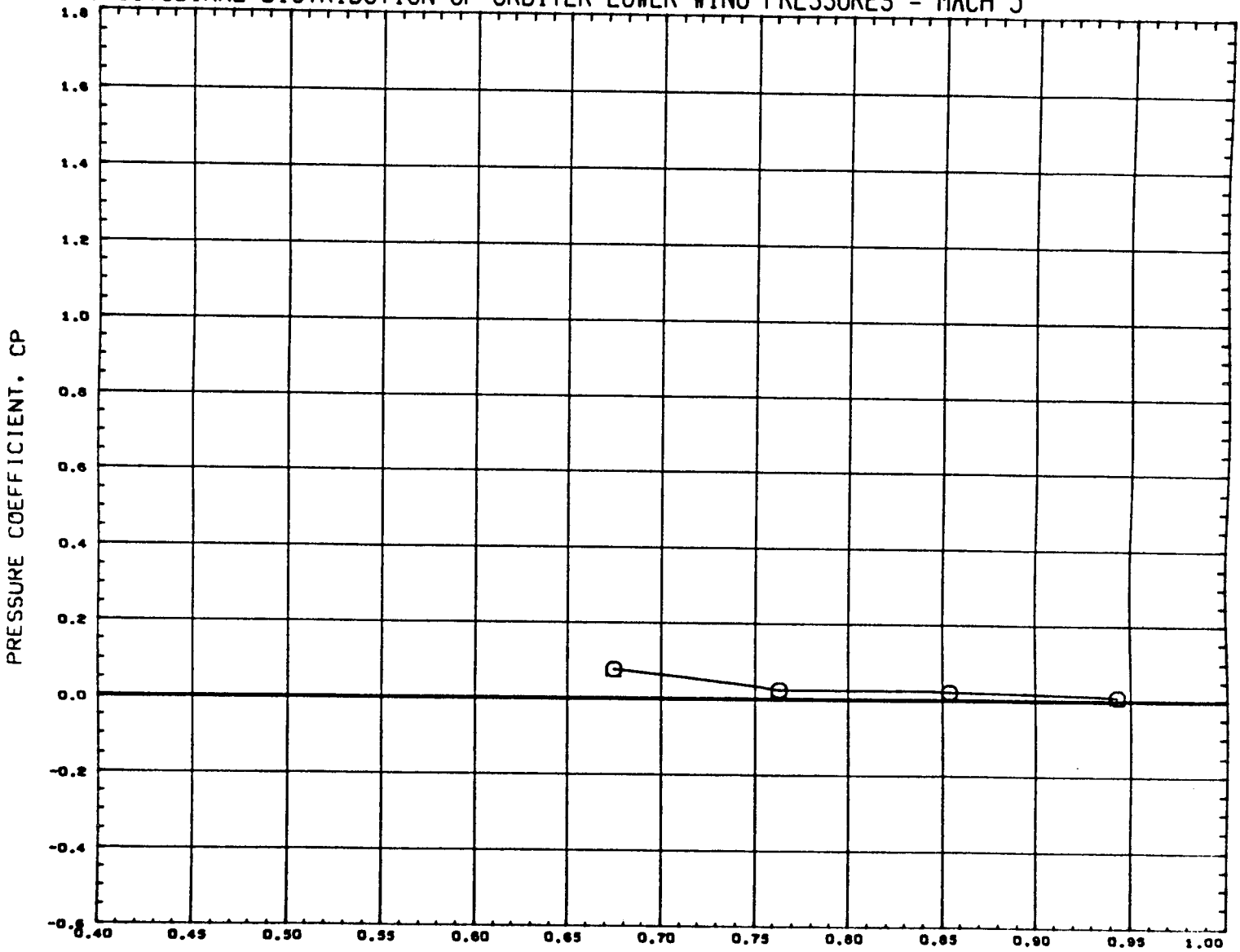
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.399	0.151

PARAMETRIC VALUES			
ALPHAB	5.026	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

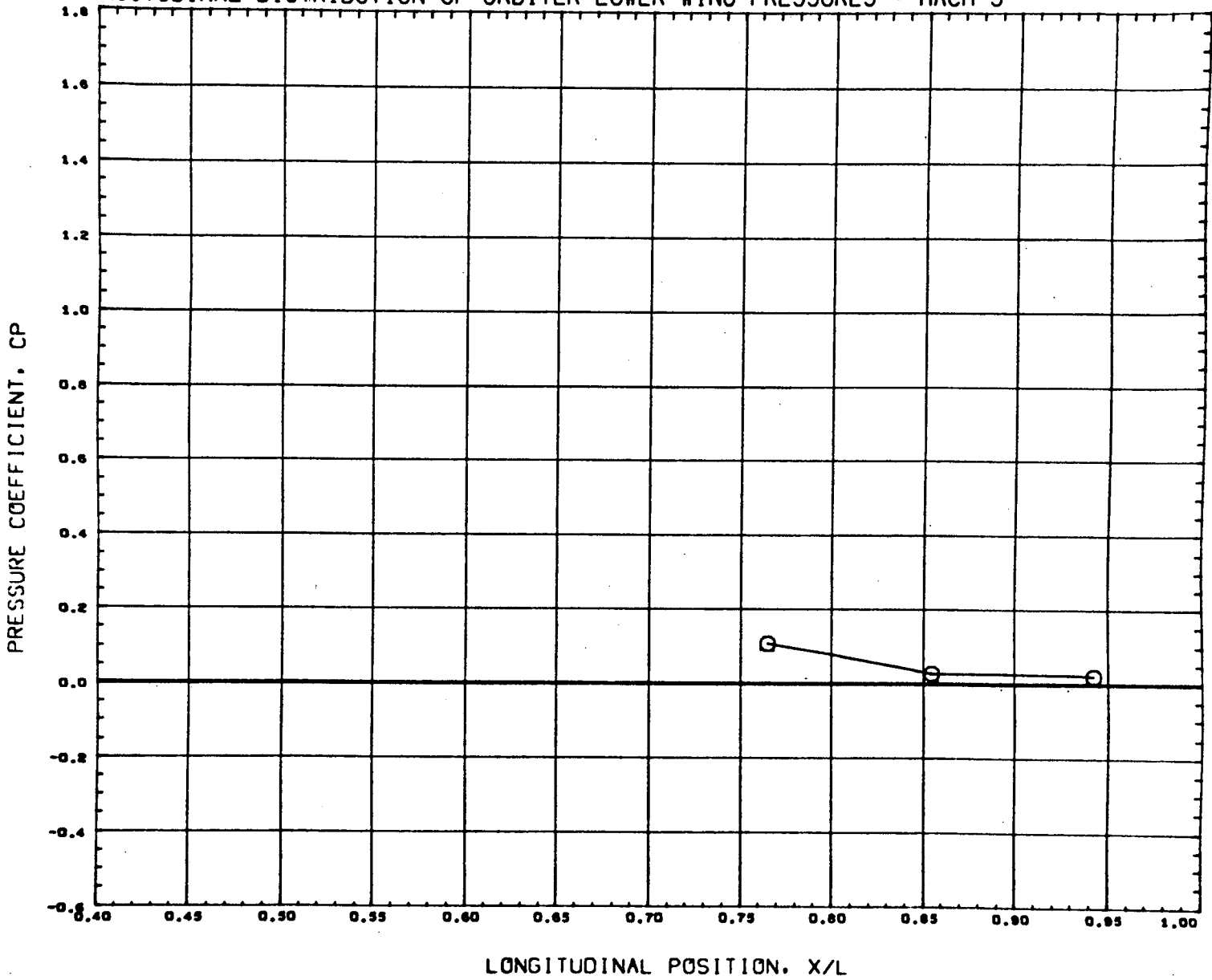
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 970

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.103 0.366 0.151

PARAMETRIC VALUES
 ALPHAB 5.026 MACH 4.970
 ALPHA1 0.000 ORBPOW 0.000
 BSTPOW 0.000

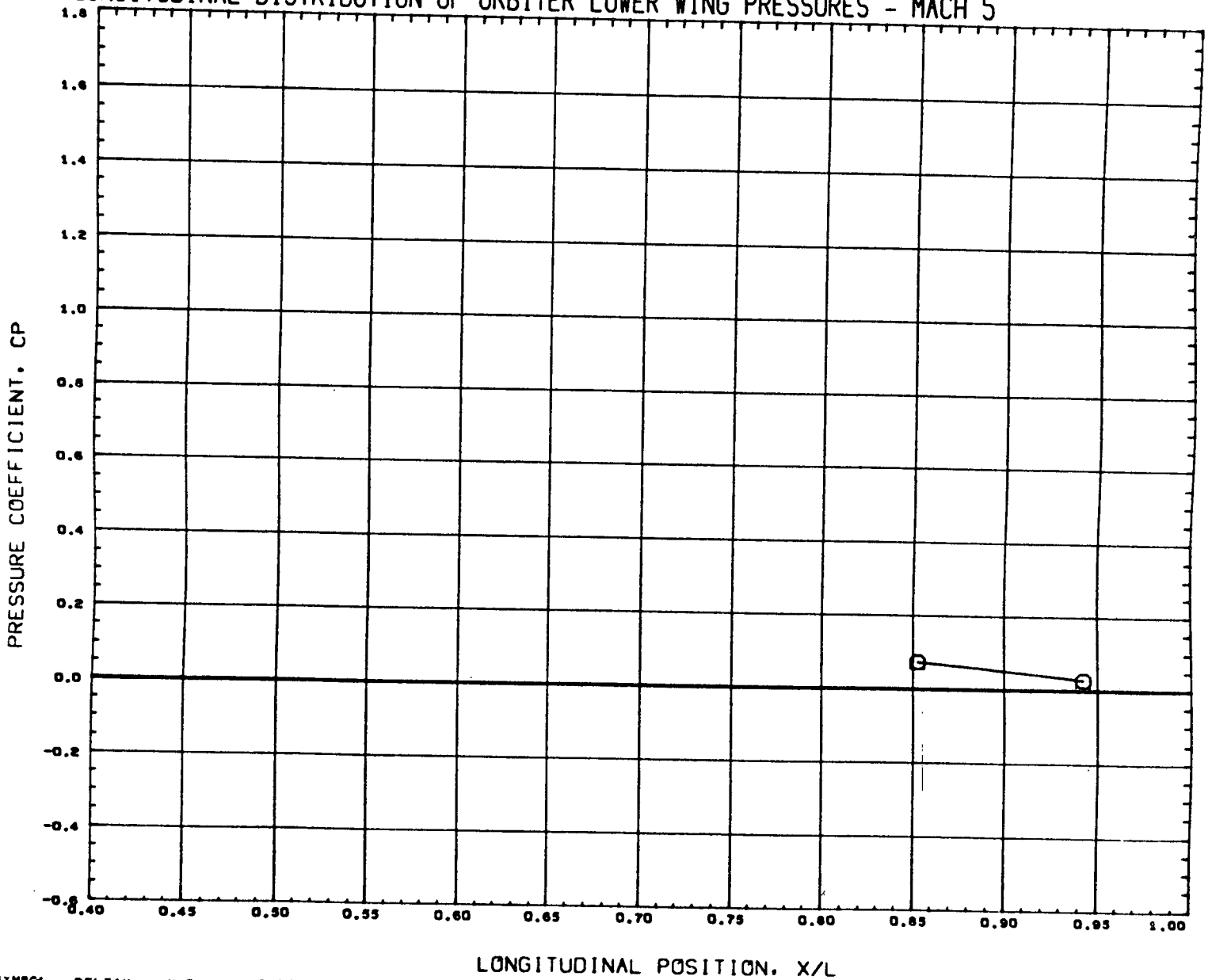
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 971

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.739	0.151

PARAMETRIC VALUES			
ALPHAB	5.026	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

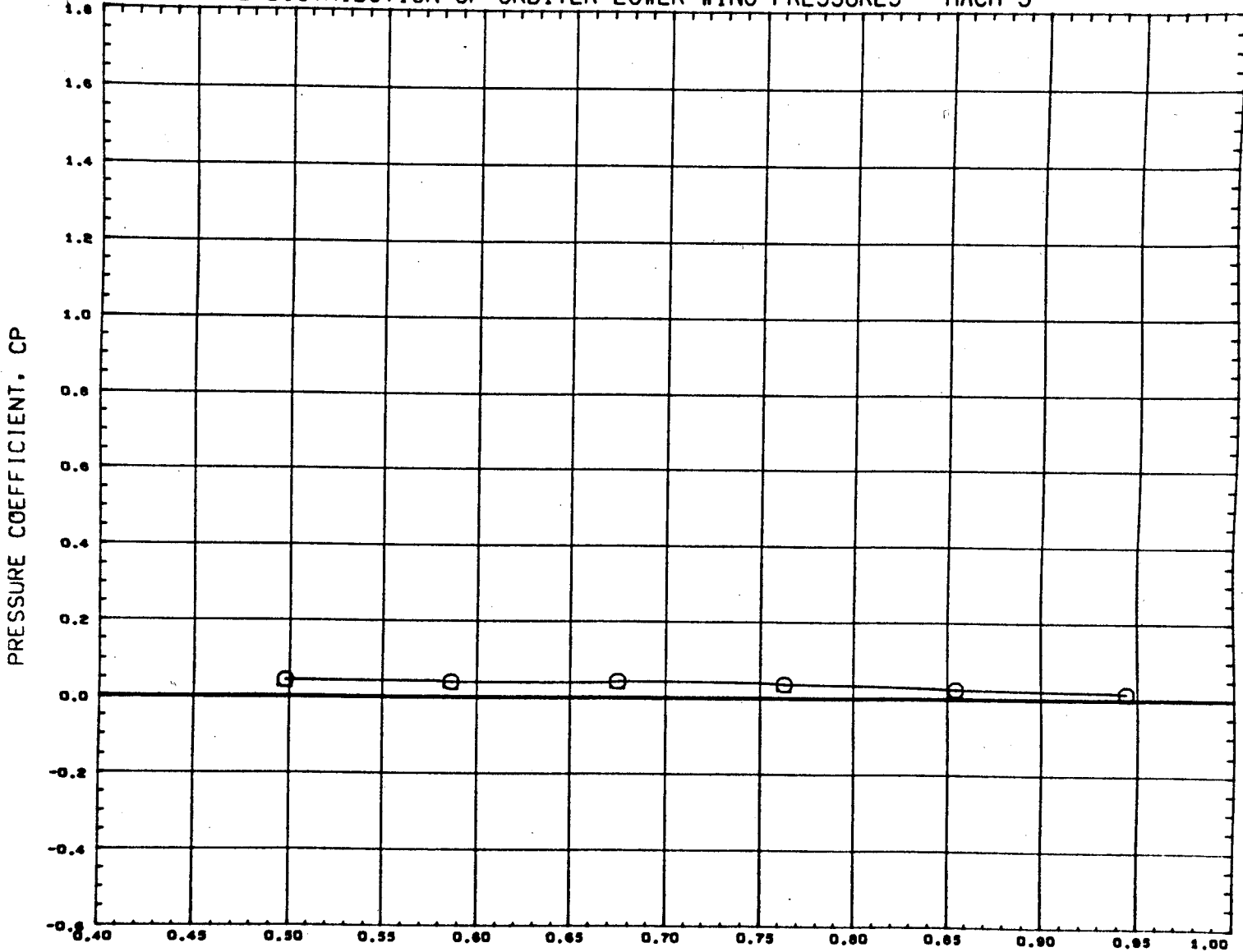
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL DELTAX Y/B DELTAZ
 ○ 0.520 0.230 0.909

PARAMETRIC VALUES
 ALPHAB 5.026 MACH 4.970
 ALPHA1 0.000 ORBPOW 0.000
 BSTPOW 0.000

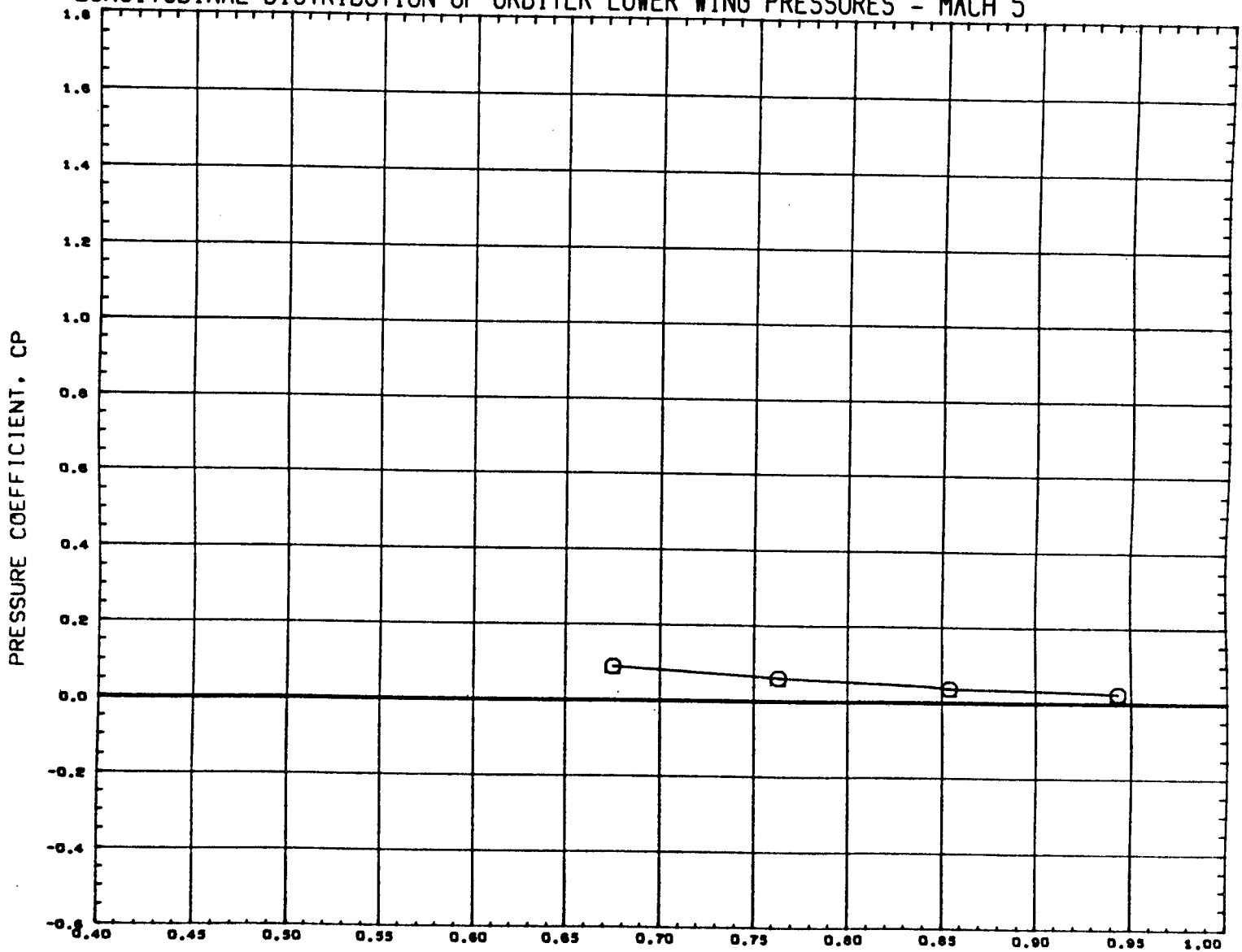
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 973

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.320	0.399	0.908

PARAMETRIC VALUES			
ALPHAB	5.026	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

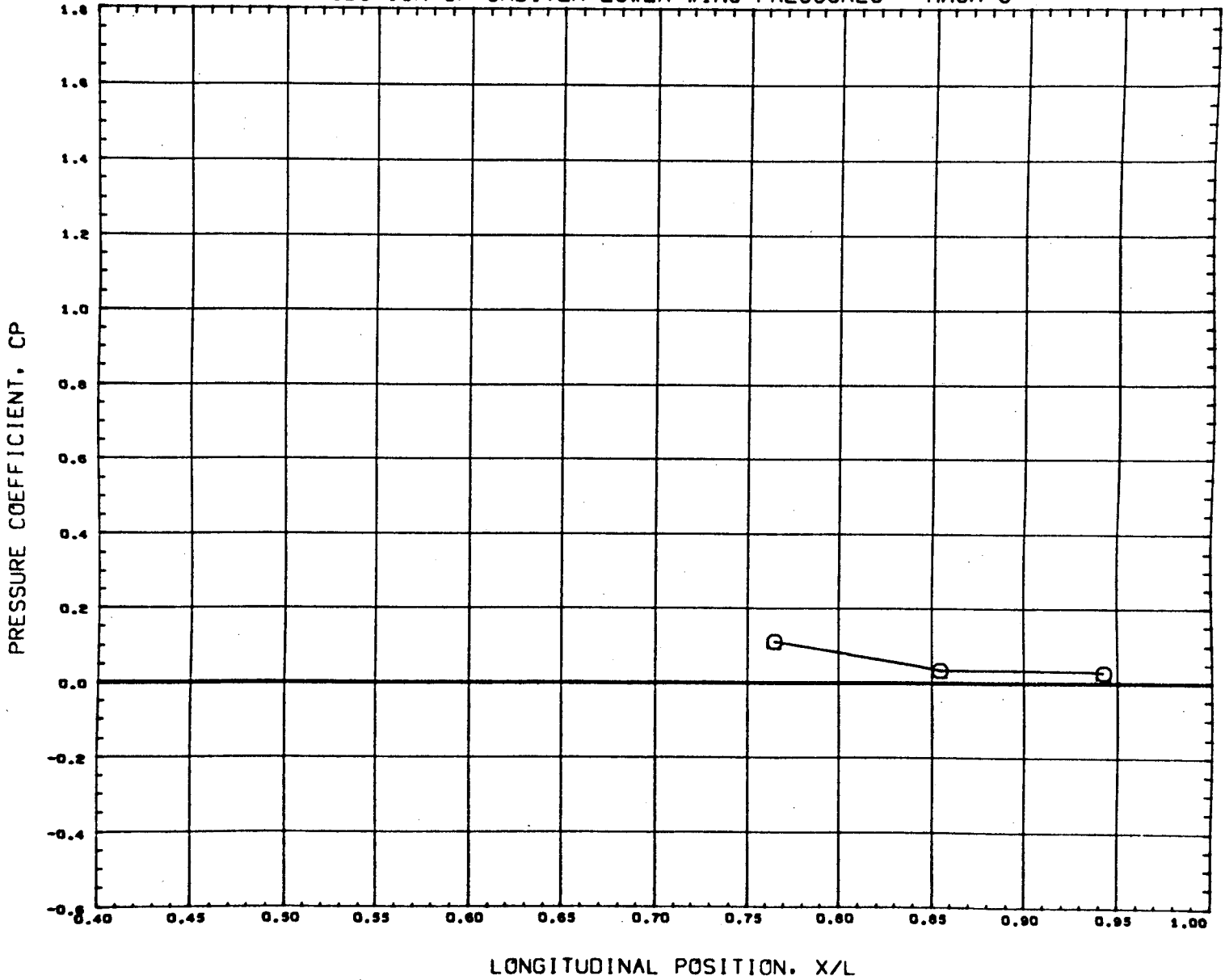
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 974

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.520	0.568	0.908

PARAMETRIC VALUES			
ALPHAB	3.026	MACH	4.970
ALPHA1	0.000	ORSPOW	0.000
BSTPOW	0.000		

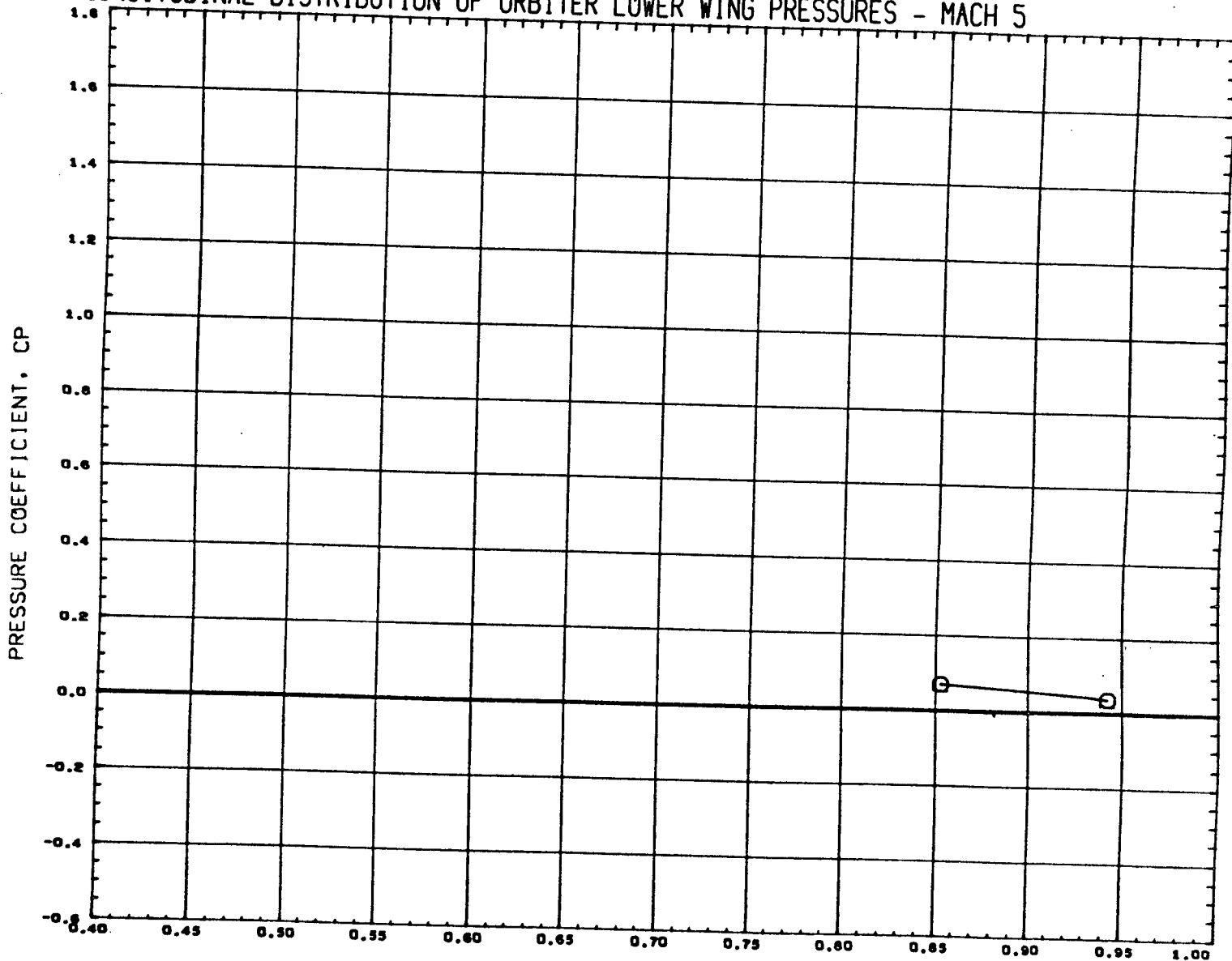
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 975

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 ○ 0.320 0.738 0.908

LONGITUDINAL POSITION, X/L

PARAMETRIC VALUES
 ALPHAB 5.026 MACH 4.970
 ALPHA1 0.000 ORBPOW 0.000
 BSTPOW 0.000

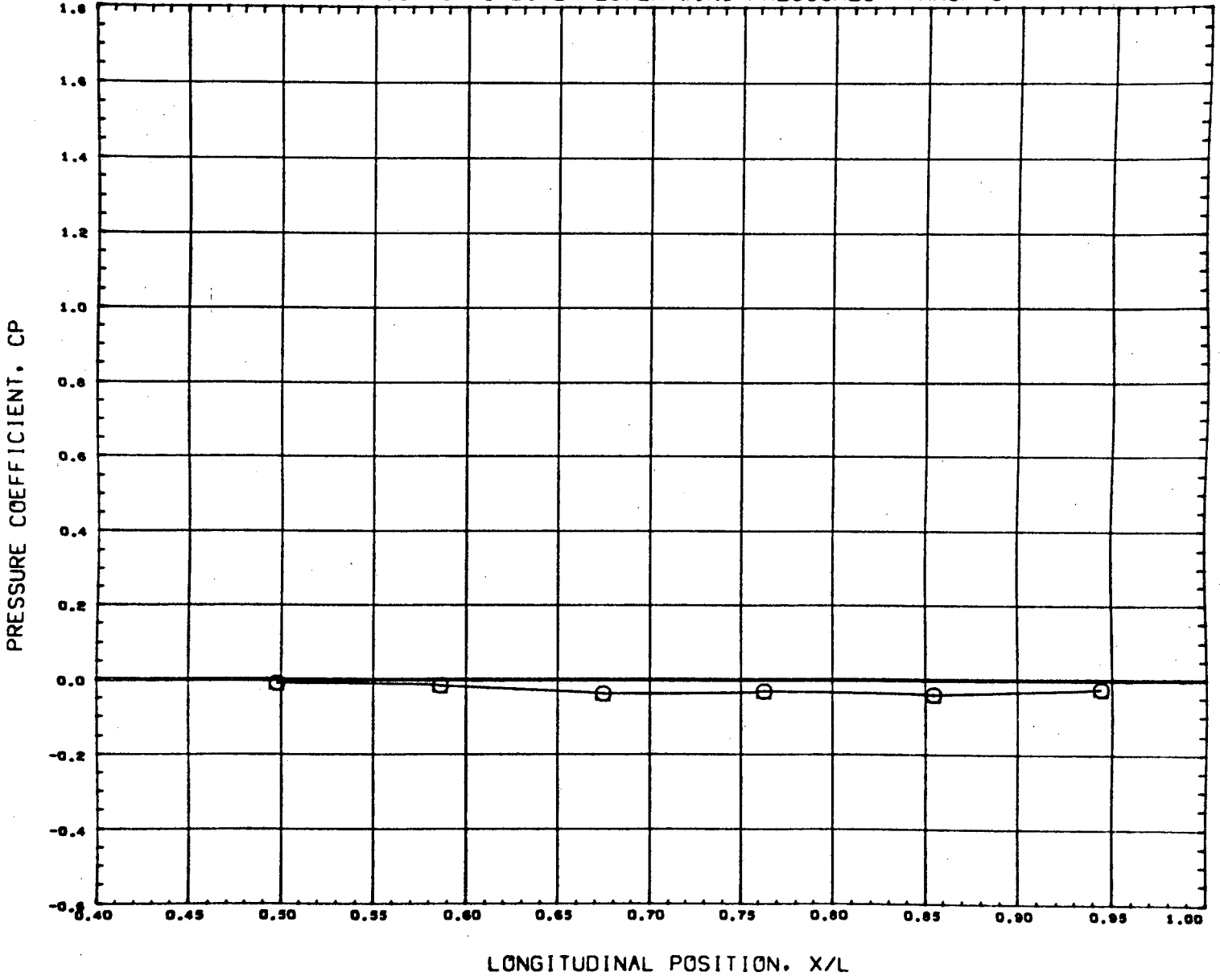
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8624•

PAGE 976

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

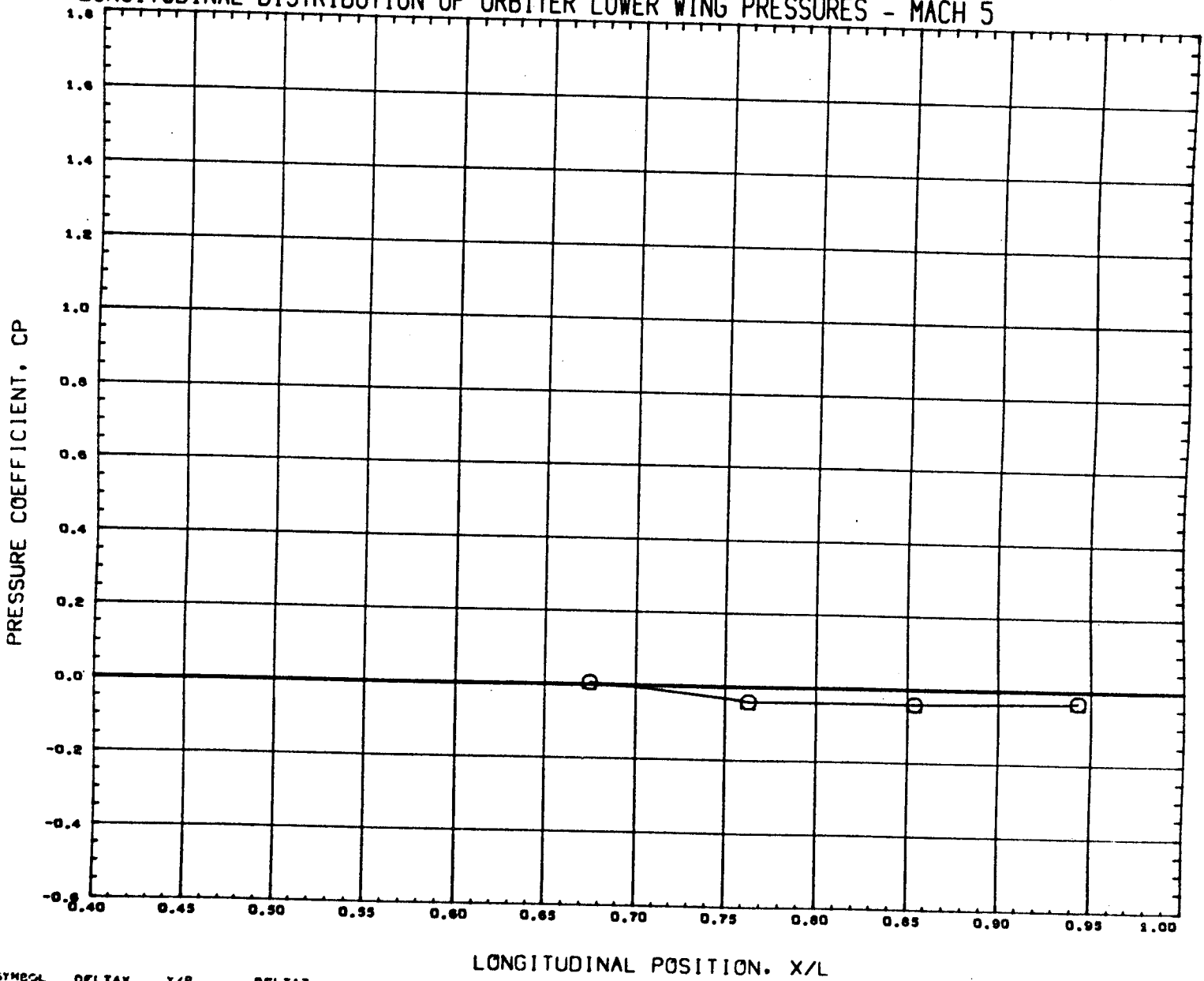


SYMBOL DELTAX Y/B DELTAZ
 C 0.103 0.230 0.106

PARAMETRIC VALUES
 ALPHAB - 4.940 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.399	0.106

PARAMETRIC VALUES			
ALPHAB	- 4.940	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

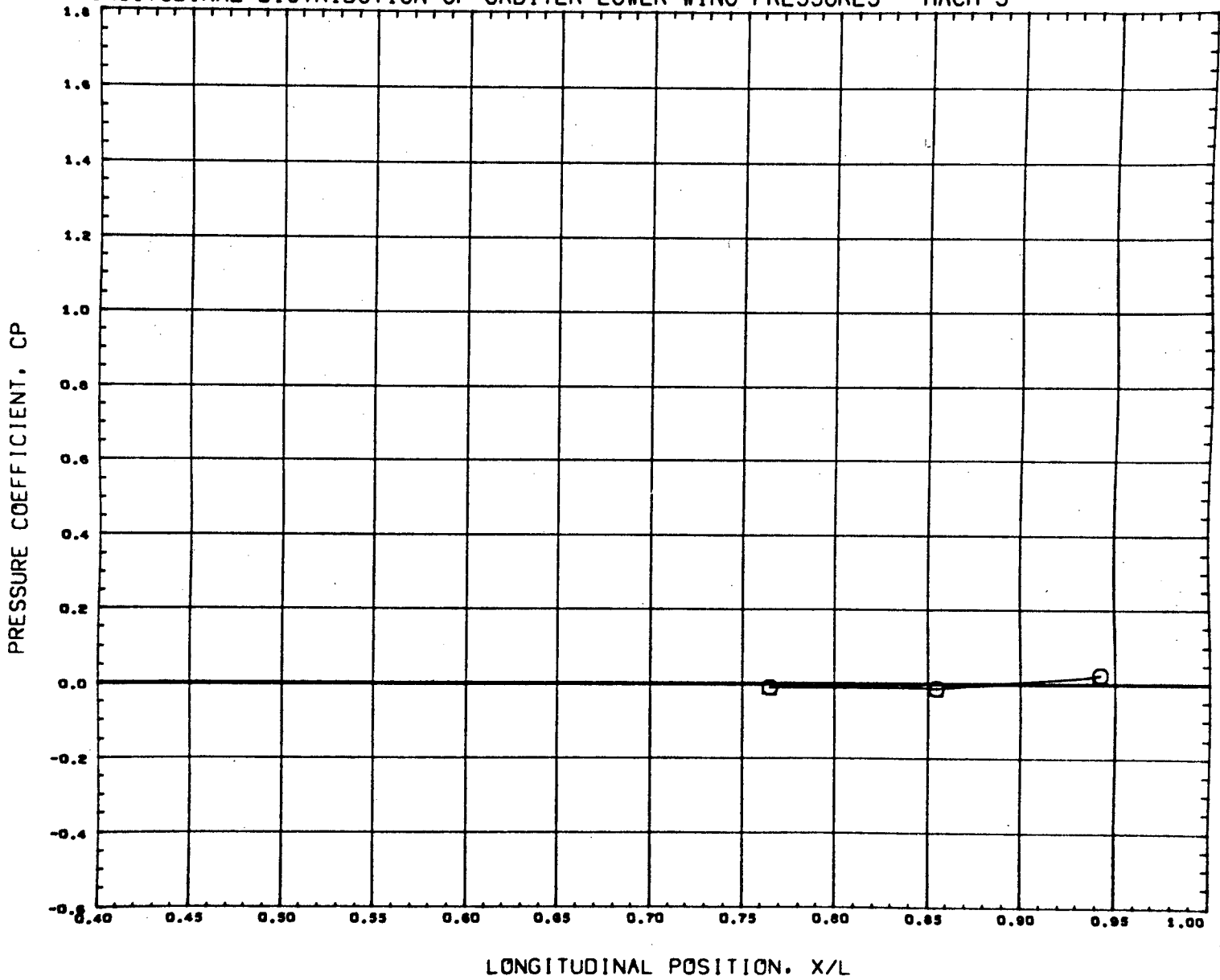
REFERENCE FILE

AEDC VA1163 MOAC ORBITER (LOWER WING)

•HT8632•

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.568	0.106

PARAMETRIC VALUES			
ALPHAB	- 4.940	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

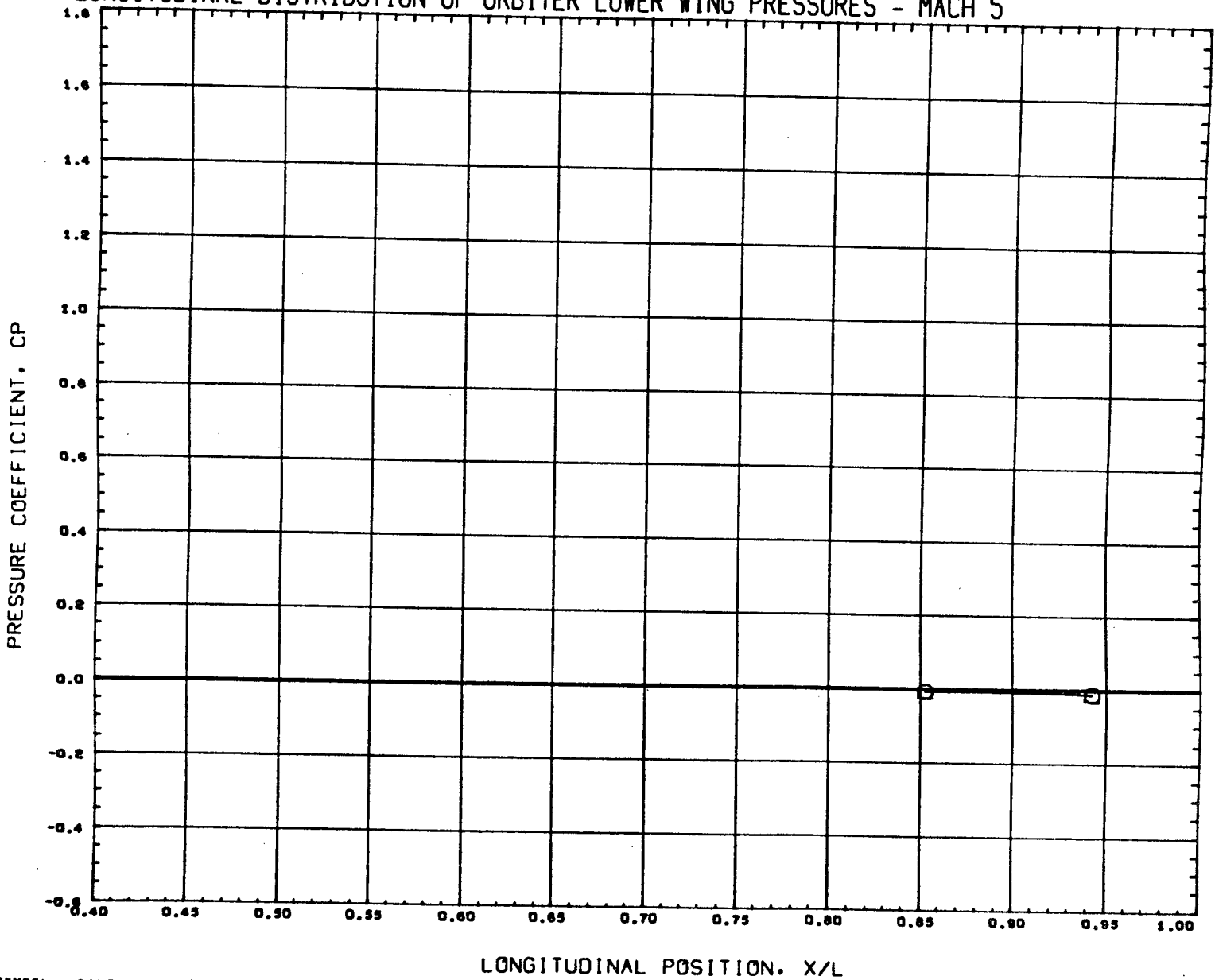
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

•HT8632•

PAGE 979

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5

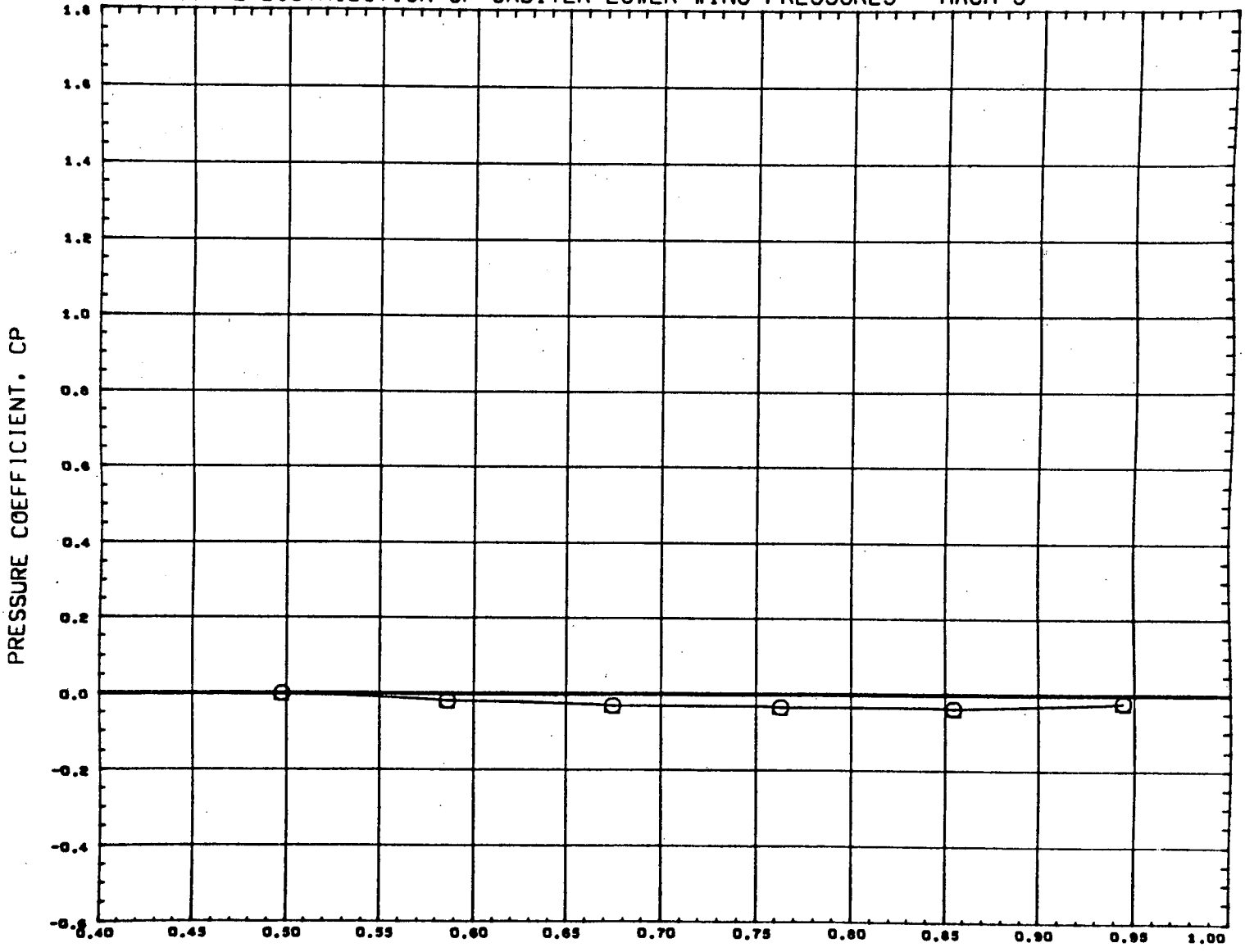


SYMBOL DELTAX Y/B DELTAZ
 ○ 0.103 0.739 0.106

PARAMETRIC VALUES
 ALPHAB - 4.940 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.230	0.106

PARAMETRIC VALUES			
ALPHAB	0.020	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

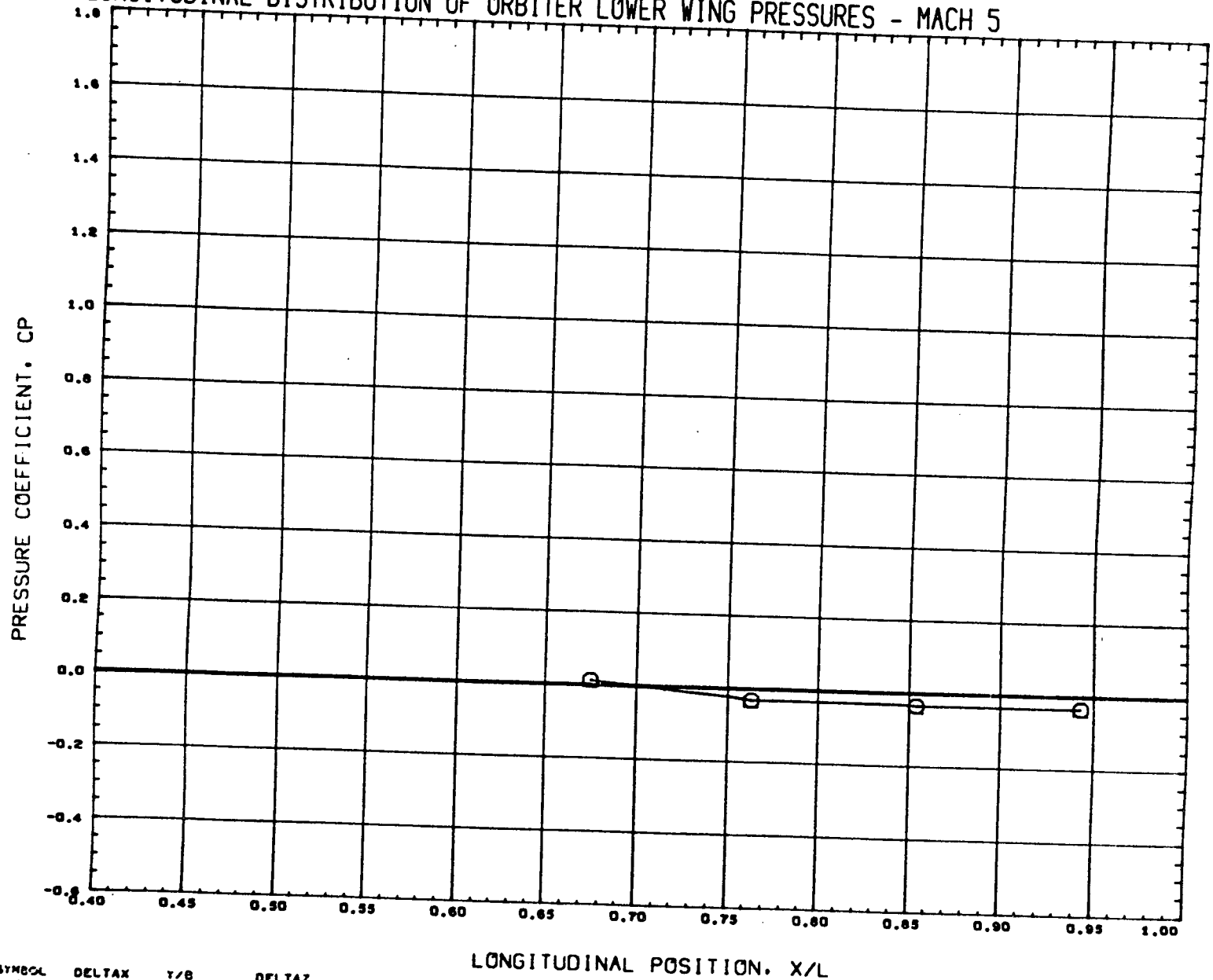
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.399	0.106

PARAMETRIC VALUES			
ALPHAB	0.020	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

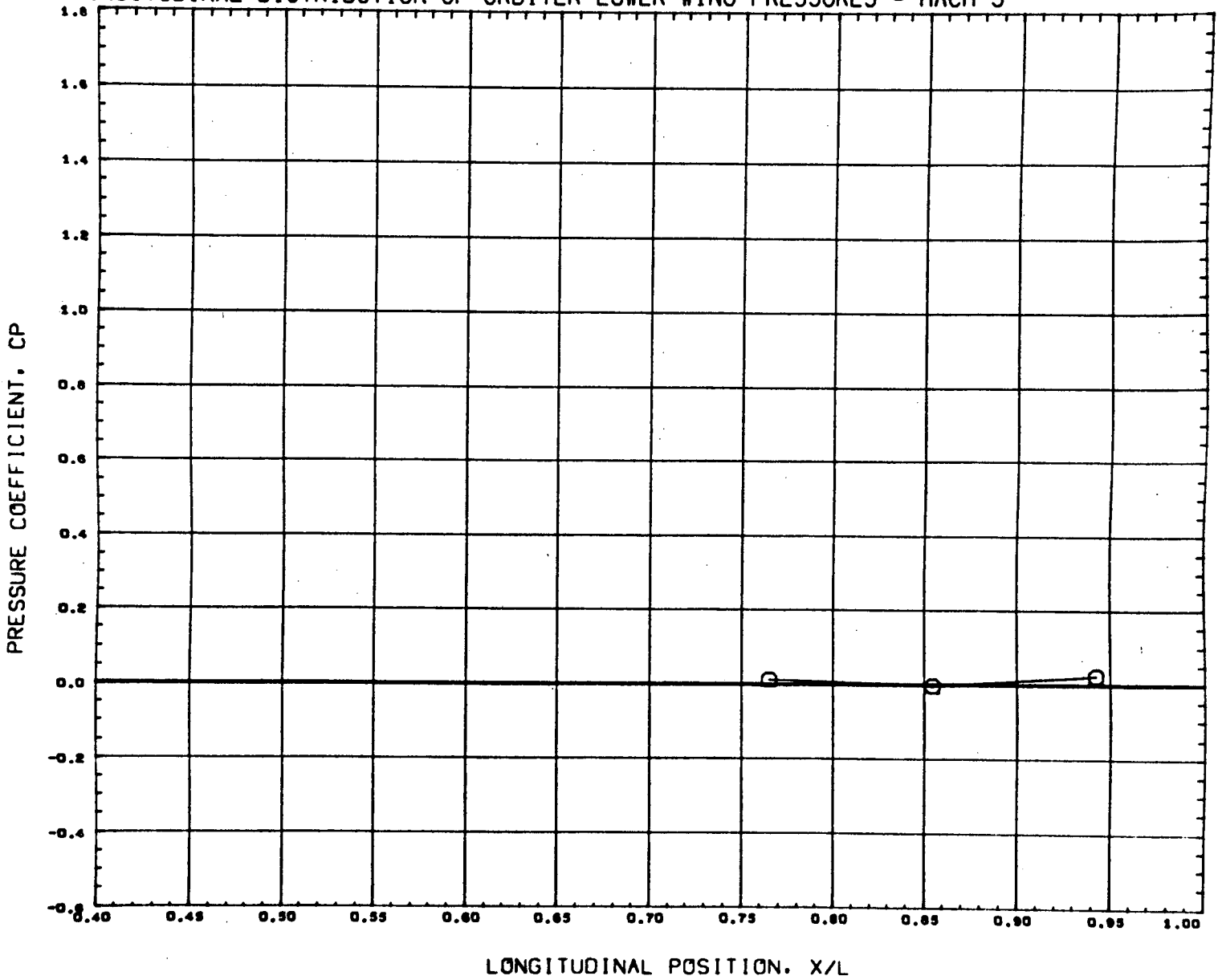
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.369	0.106

PARAMETRIC VALUES			
ALPHAB	0.020	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

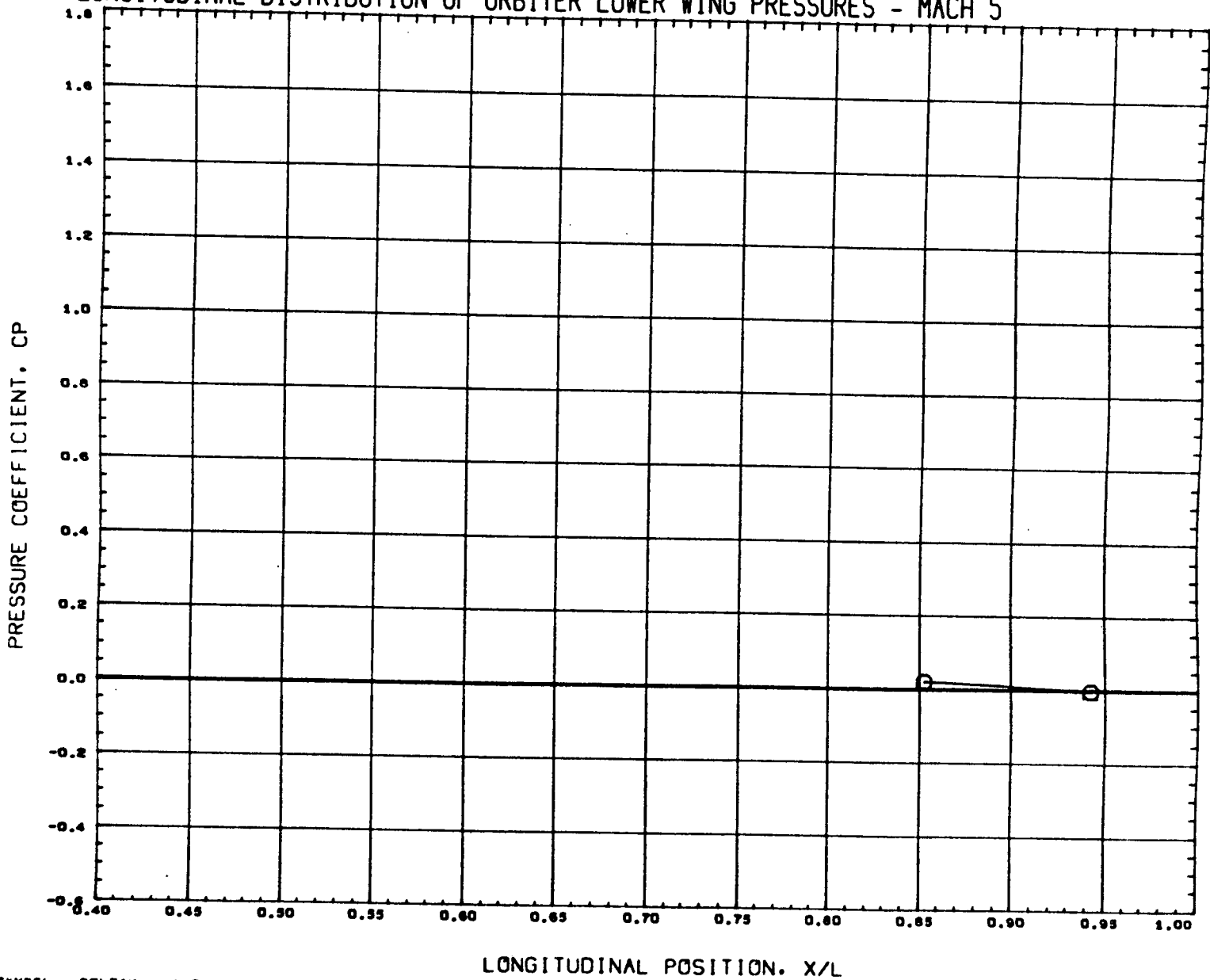
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.738	0.106

PARAMETRIC VALUES			
ALPHAB	0.020	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

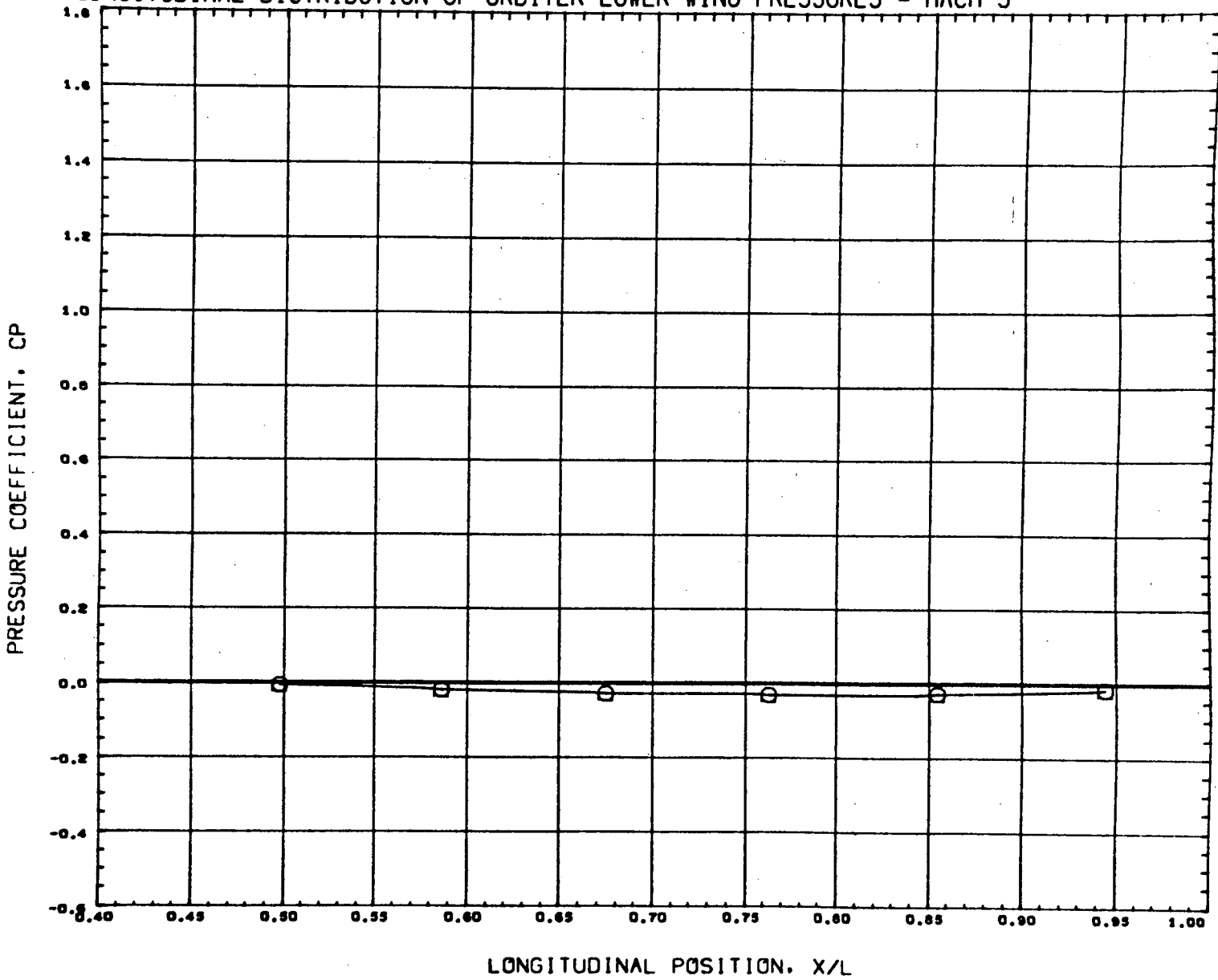
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.230	0.106

PARAMETRIC VALUES			
ALPHAB	4.995	MACH	4.970
ALPHAI	0.000	ORBPOM	0.000
BSTPOM	0.000		

REFERENCE FILE

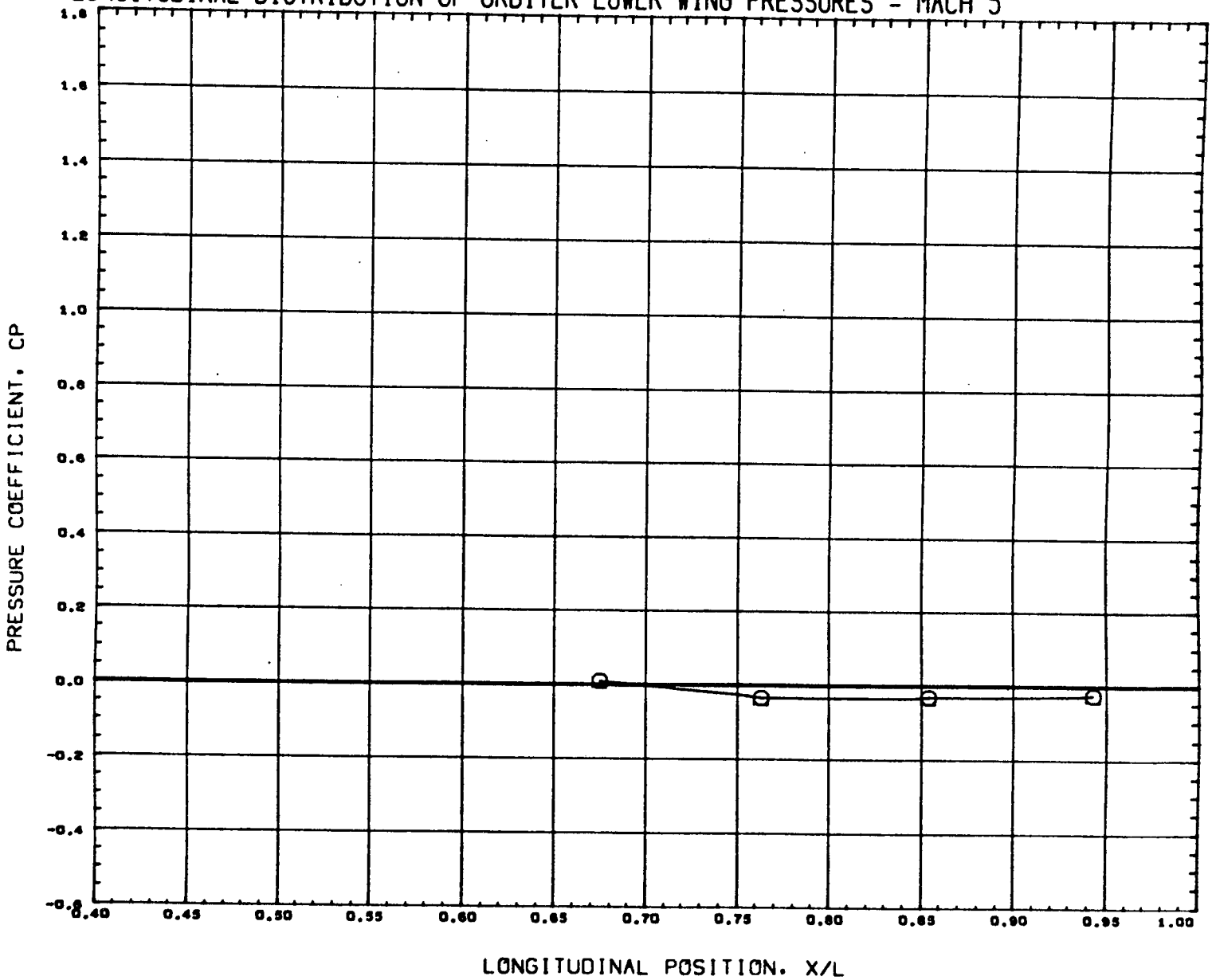
AEDC VA1163 MDAC ORBITER (LOWER WING)

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0.10

LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.399	0.106

PARAMETRIC VALUES			
ALPHAB	4.995	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

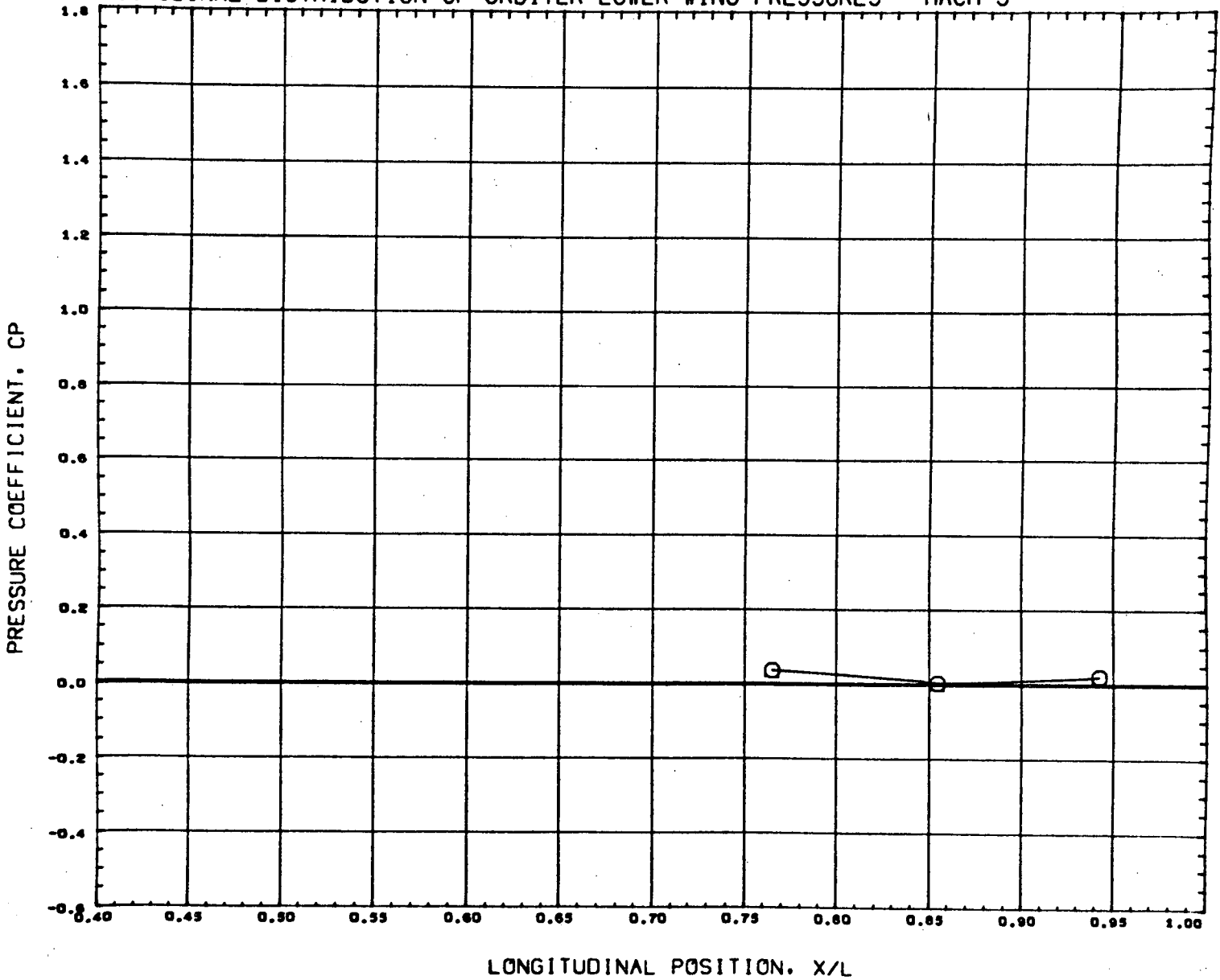
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.369	0.106

PARAMETRIC VALUES			
ALPHAB	4.995	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

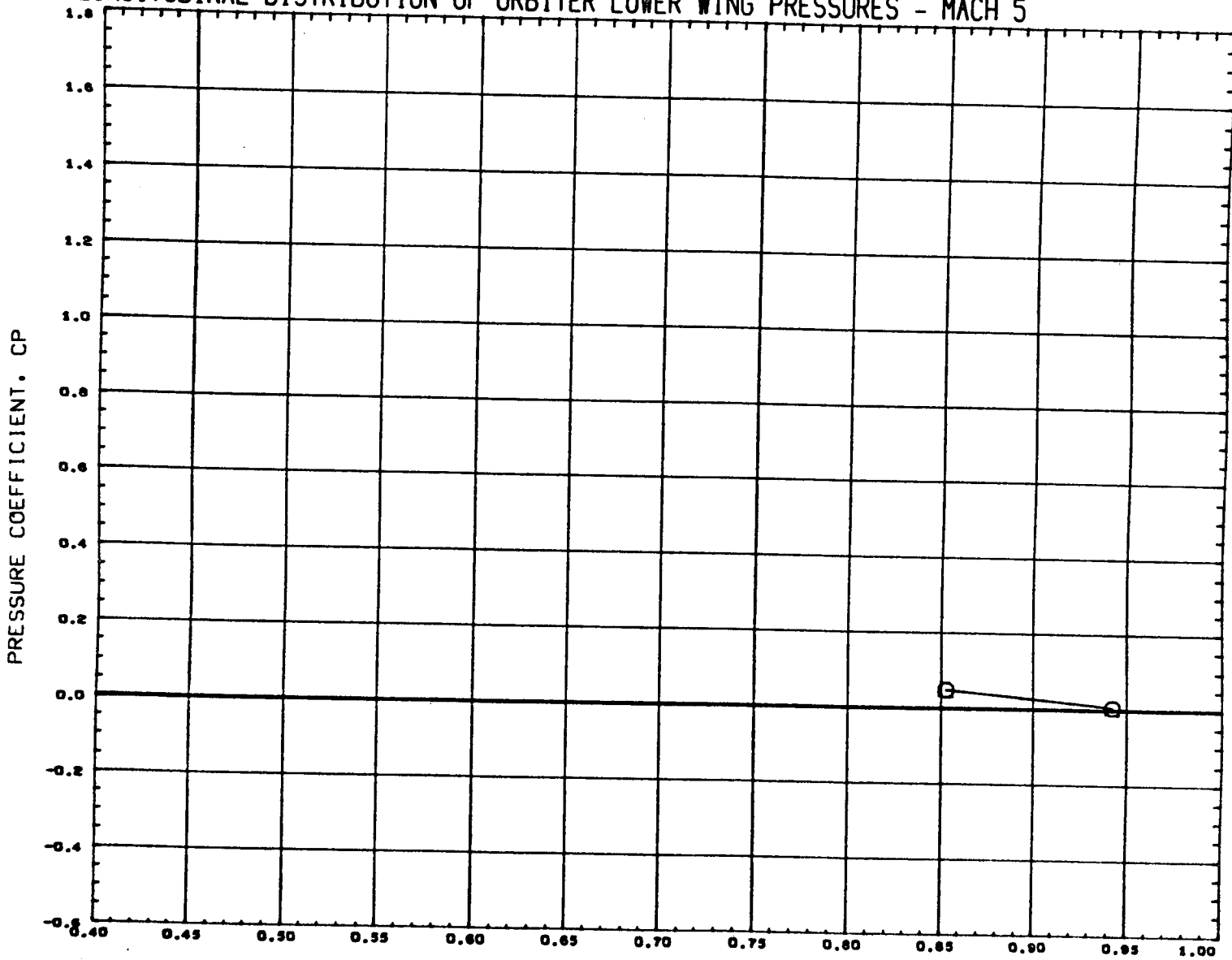
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.738	0.106

PARAMETRIC VALUES			
ALPHAB	4.995	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

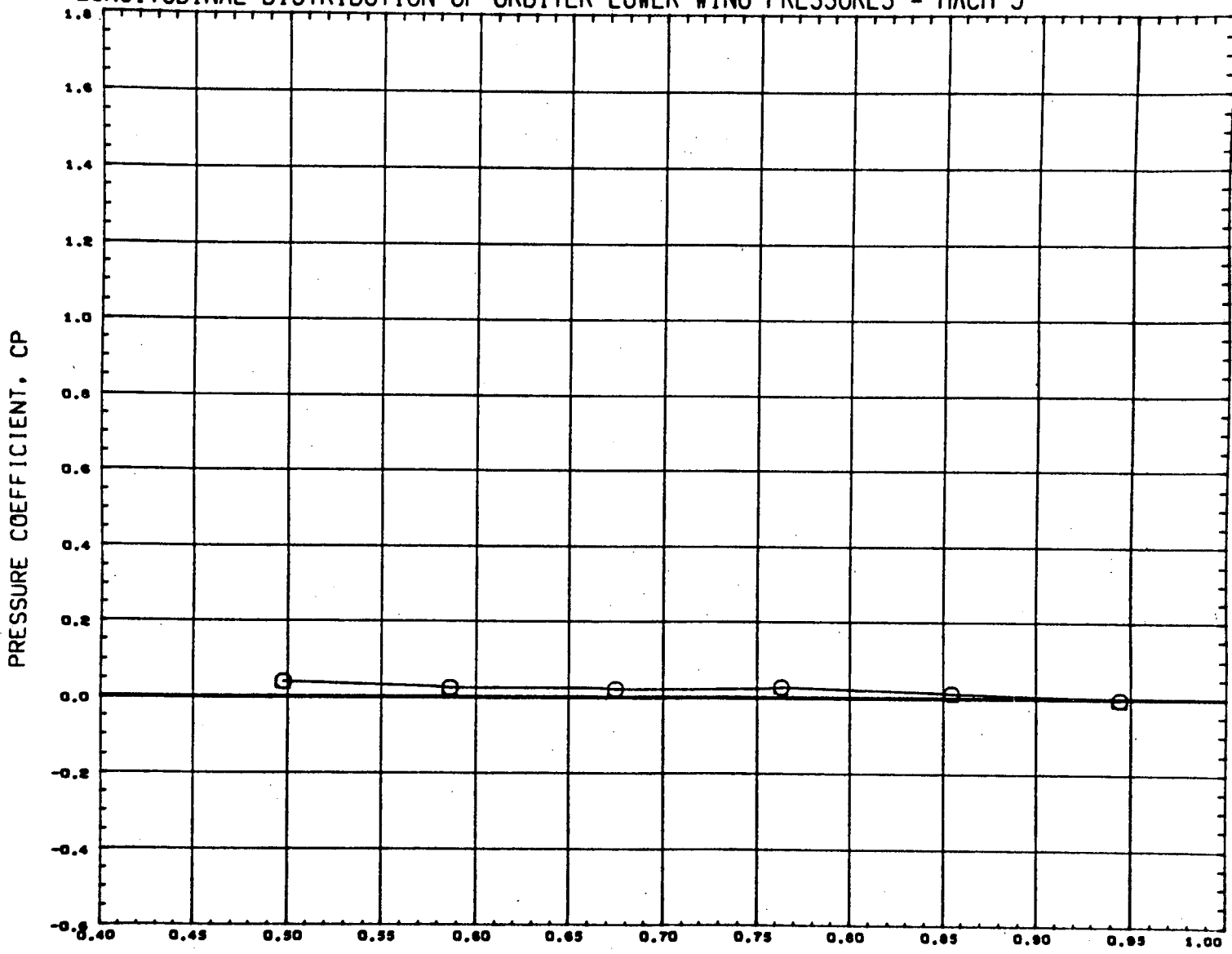
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.230	0.151

PARAMETRIC VALUES			
ALPHAB	4.995	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

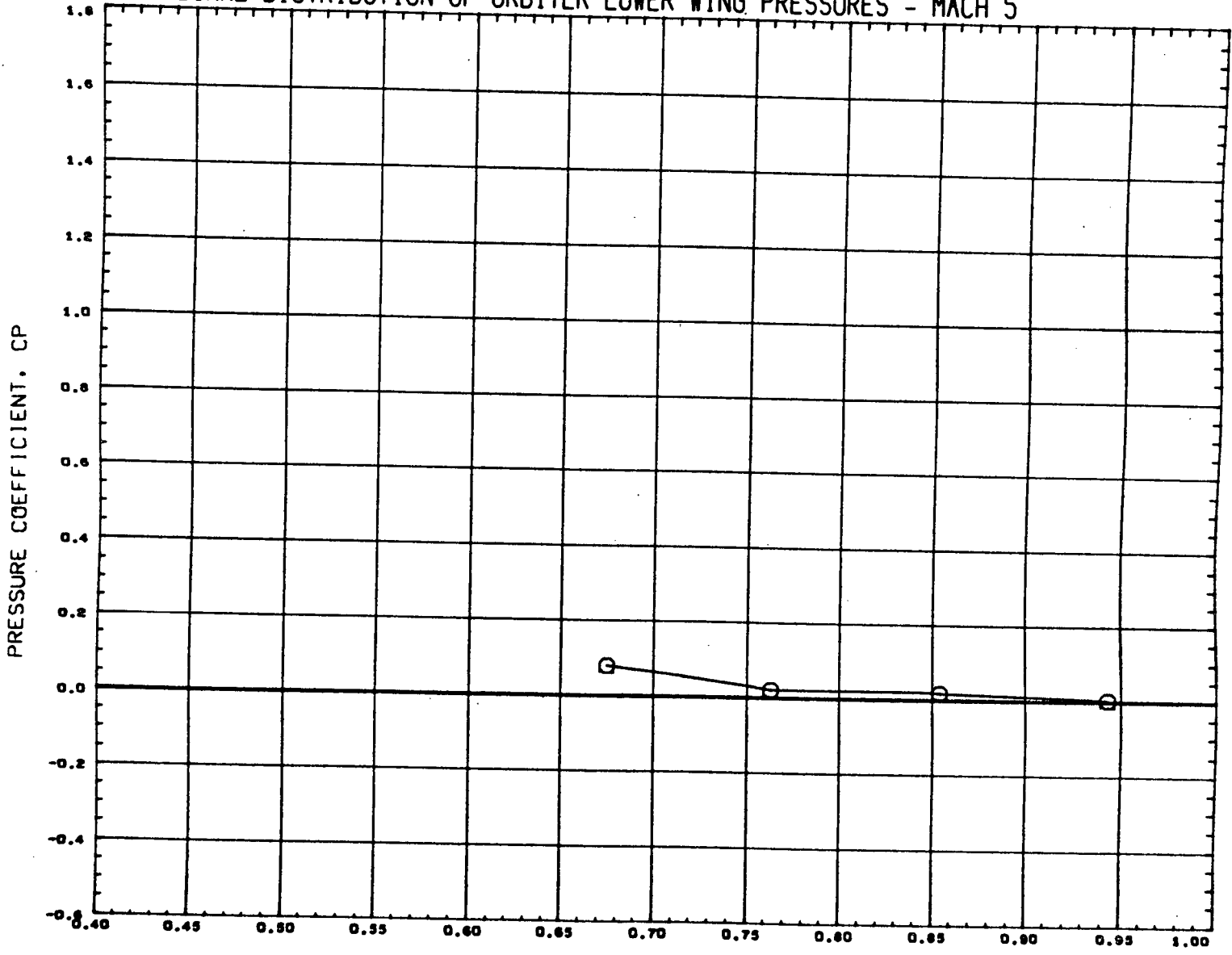
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AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.399	0.191

PARAMETRIC VALUES			
ALPHAB	4.995	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

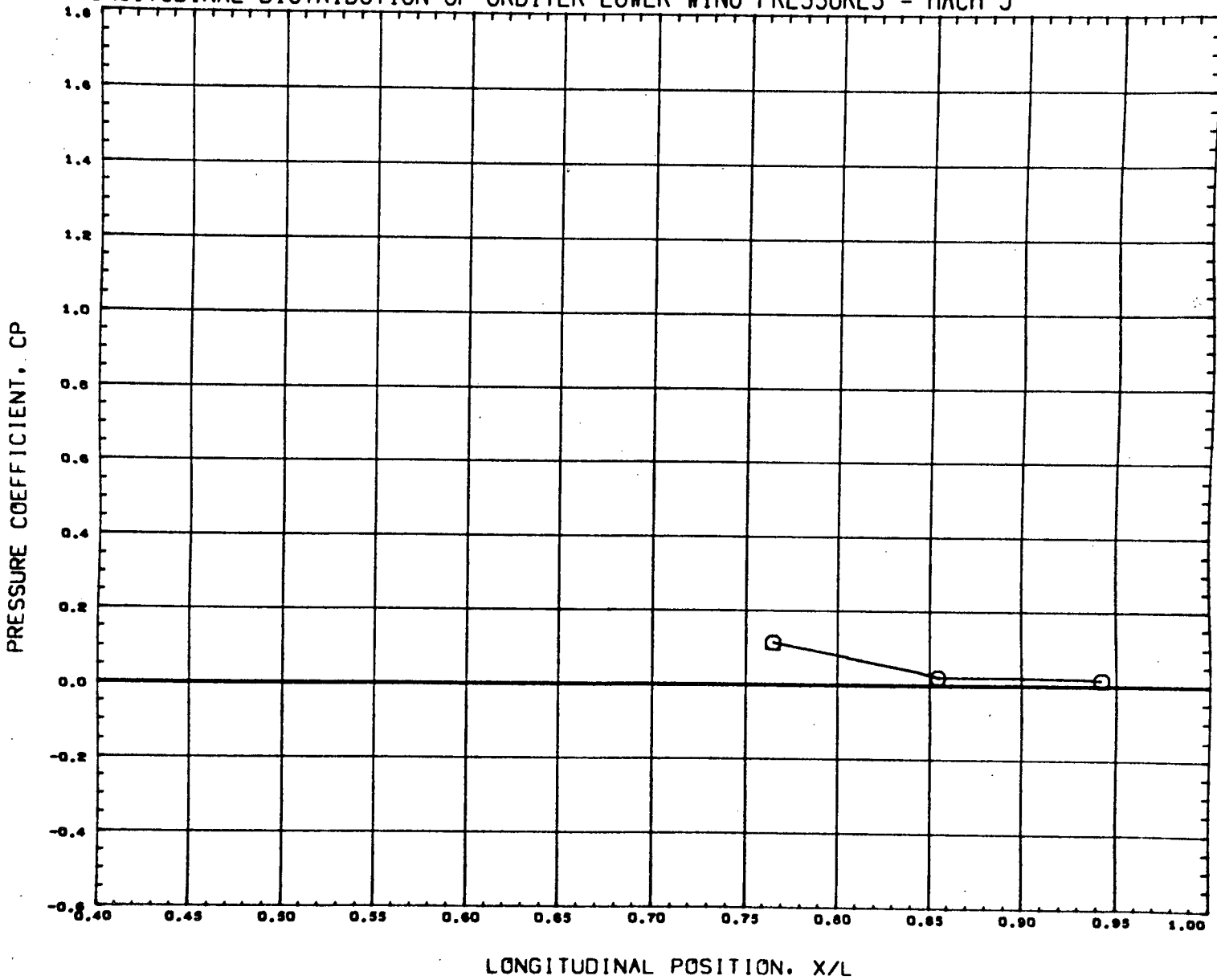
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



SYMBOL DELTAX Y/B DELTAZ
 O 0.103 0.366 0.151

PARAMETRIC VALUES
 ALPHAB 4.995 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

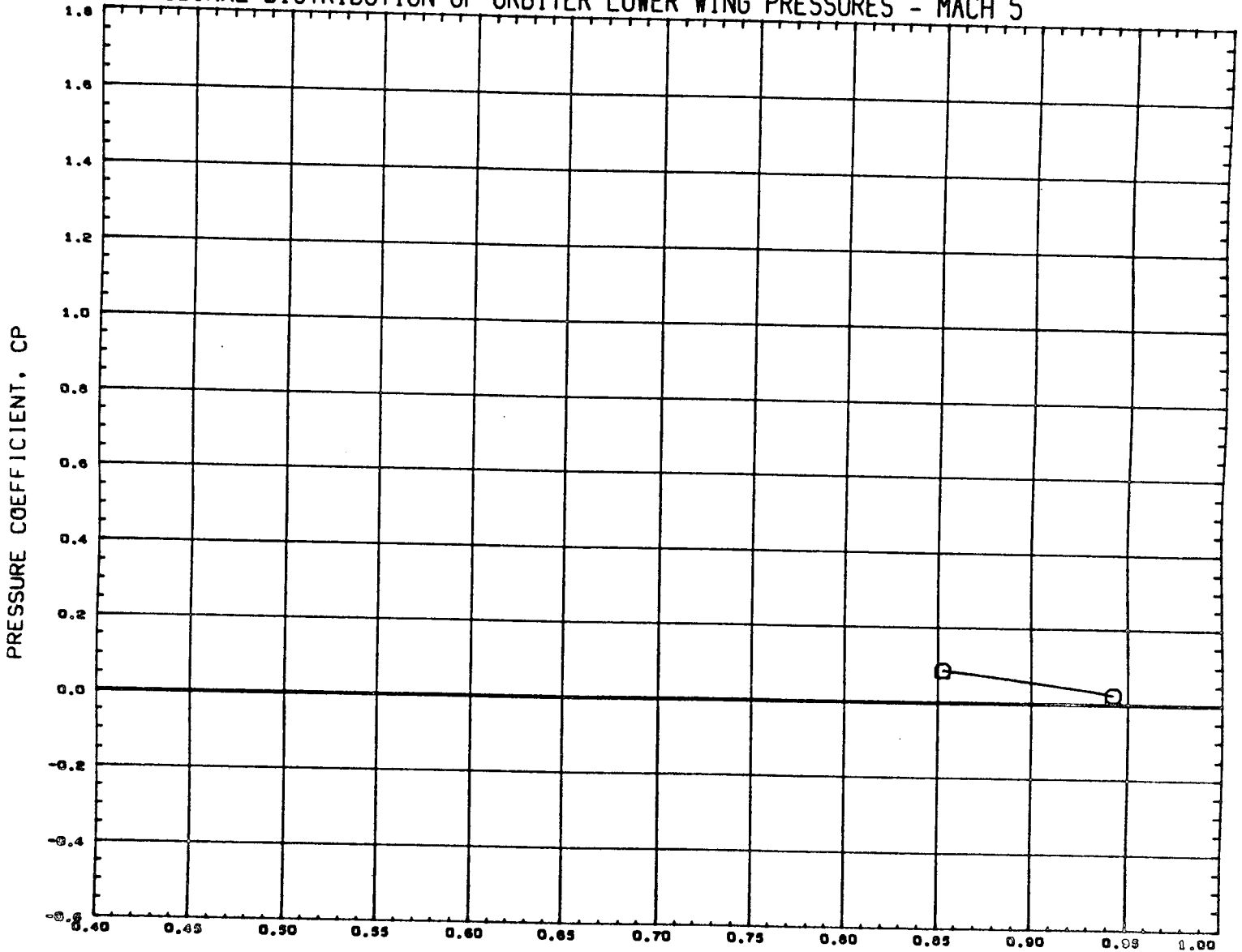
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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LONGITUDINAL DISTRIBUTION OF ORBITER LOWER WING PRESSURES - MACH 5



LONGITUDINAL POSITION, X/L

SYMBOL	DELTA X	Y/B	DELTA Z
○	0.103	0.736	0.151

PARAMETRIC VALUES			
ALPHAB	4.993	MACH	4.970
ALPHAI	0.000	ORSPW	0.000
BSTPW	0.000		

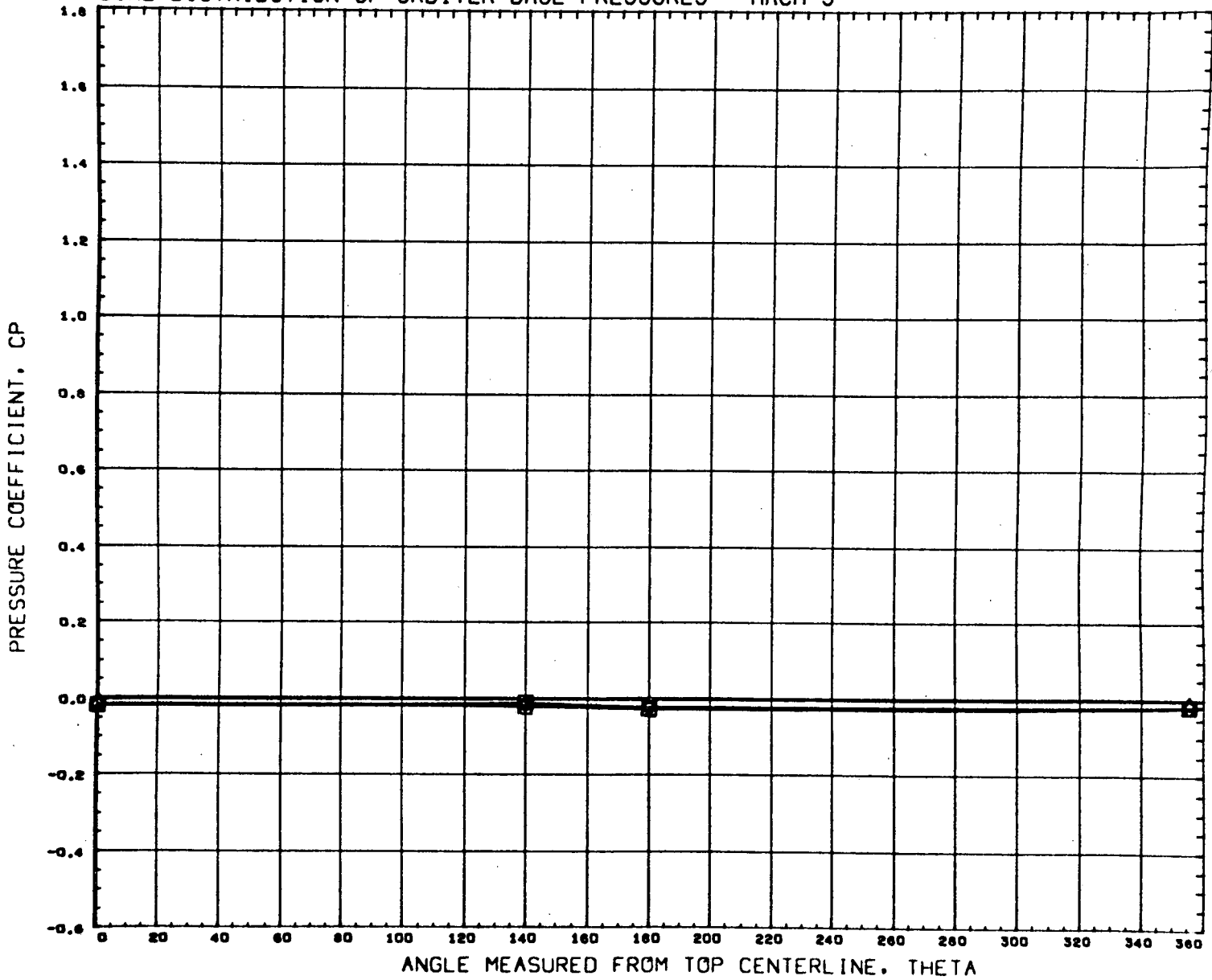
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (LOWER WING)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	- 9.909	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

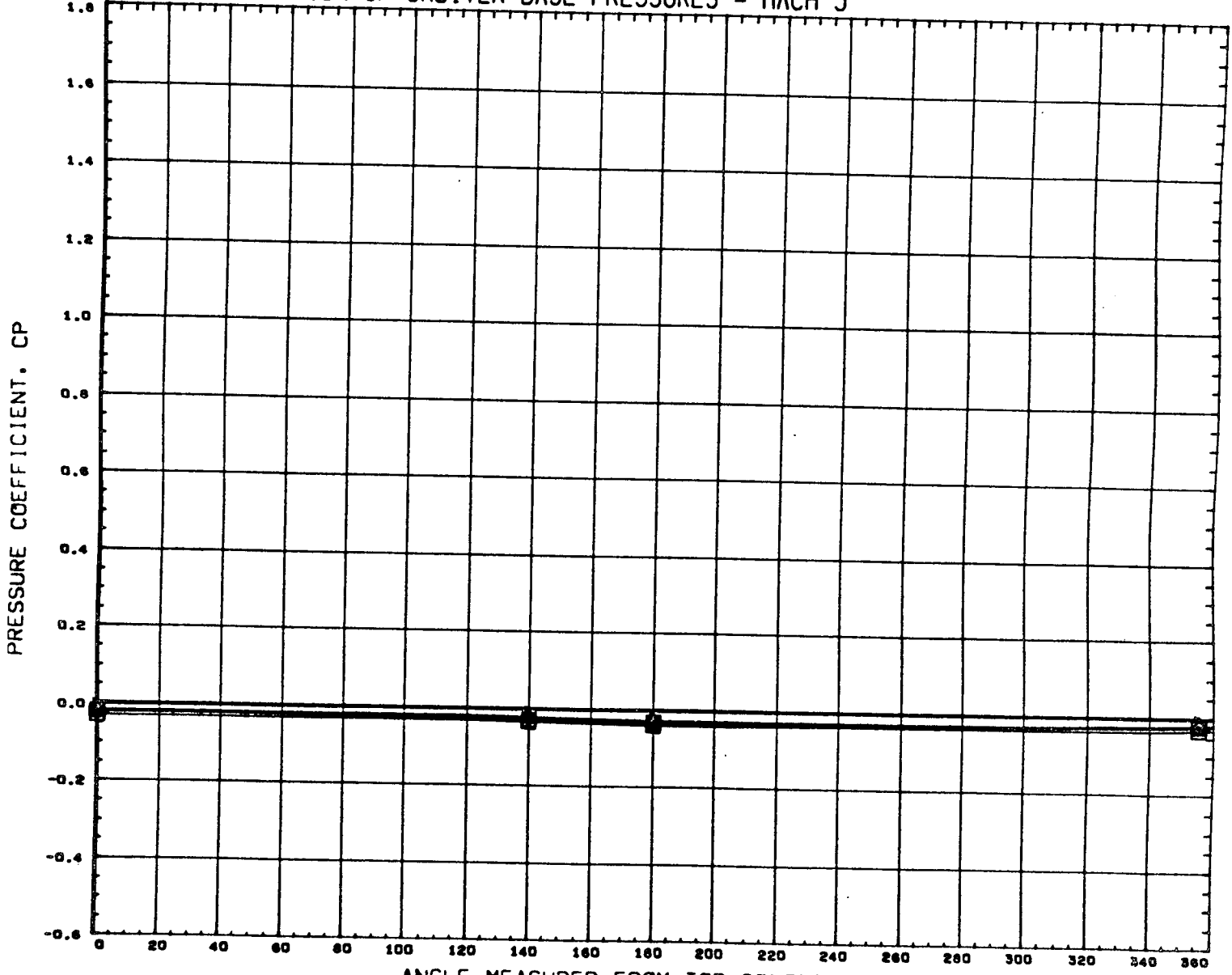
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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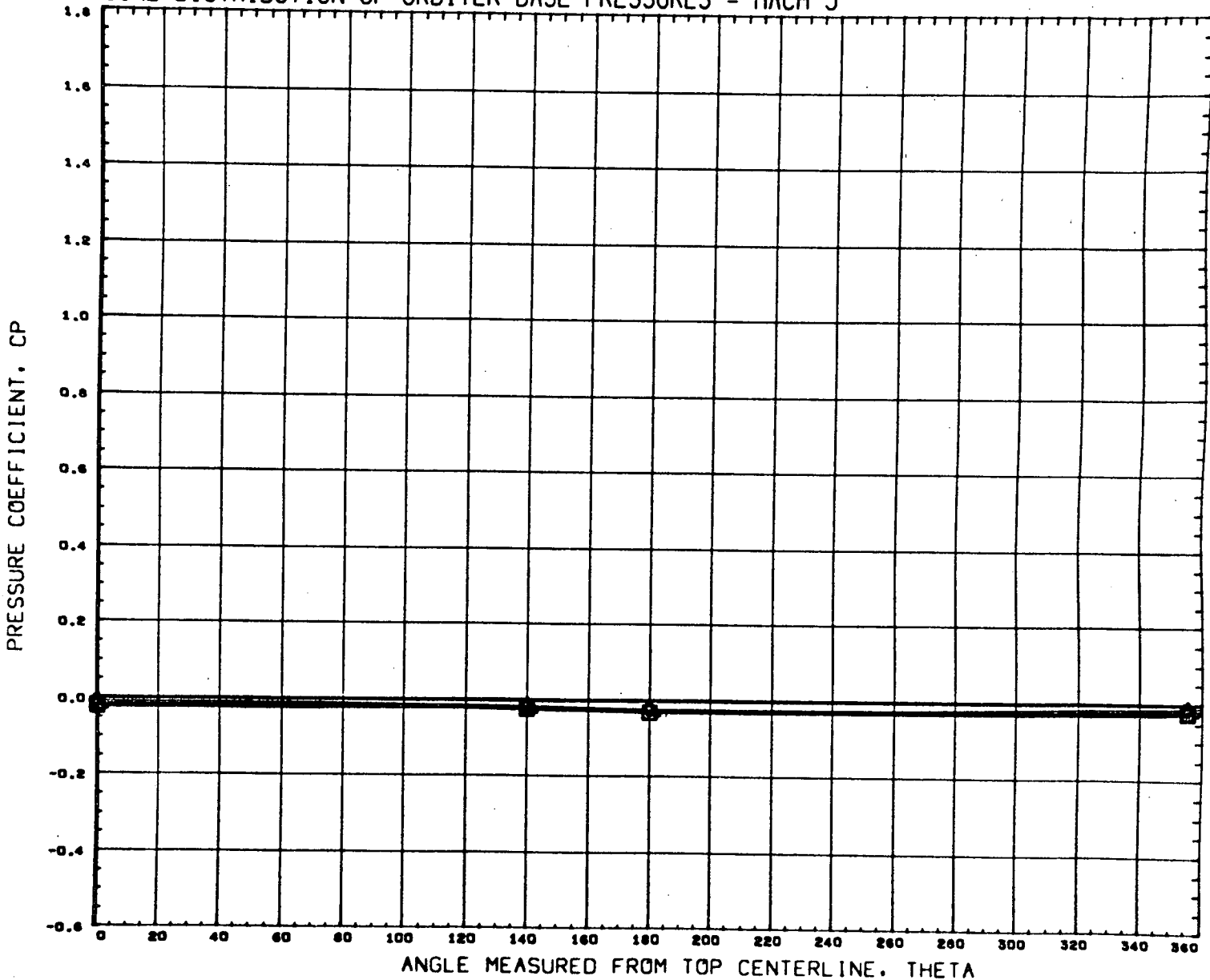
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
□	0.390	1.000	0.120
◇	0.143		
△	0.020		
○	0.103		
◇	0.227		
□	0.350		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	9.909	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

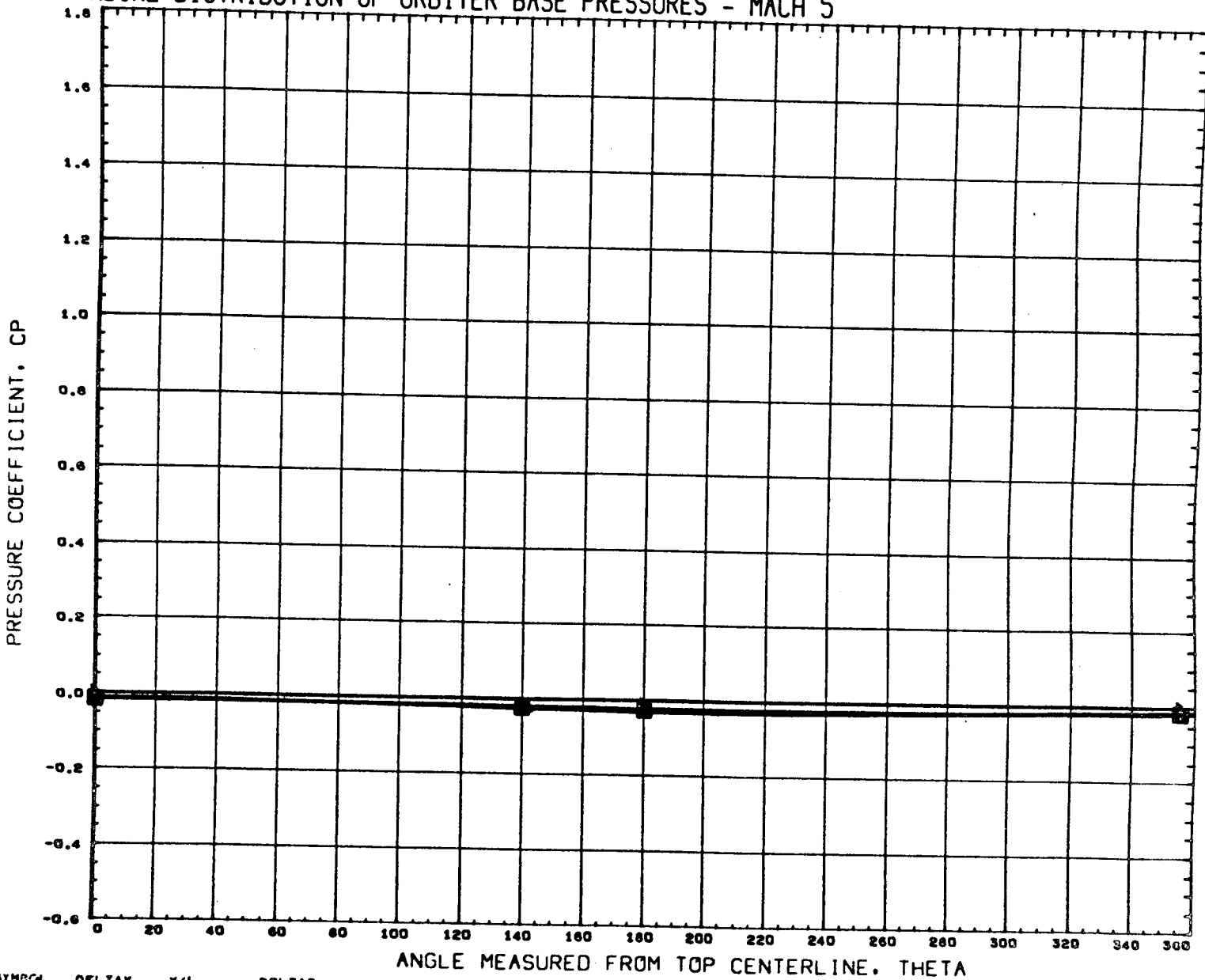
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.151
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	9.909	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

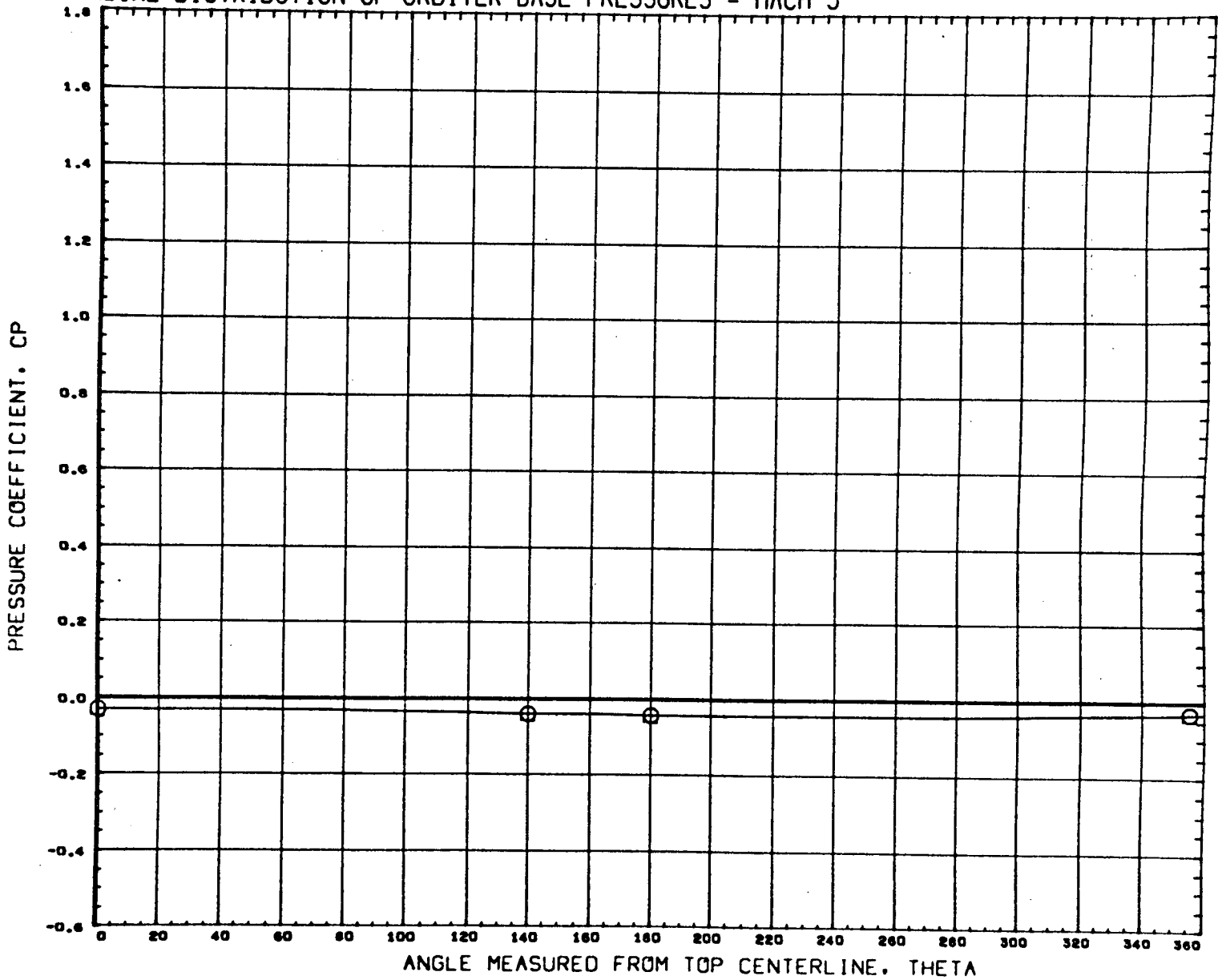


SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.226
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 9.909	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.920	1.000	0.909

PARAMETRIC VALUES			
ALPHAB	- 9.909	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

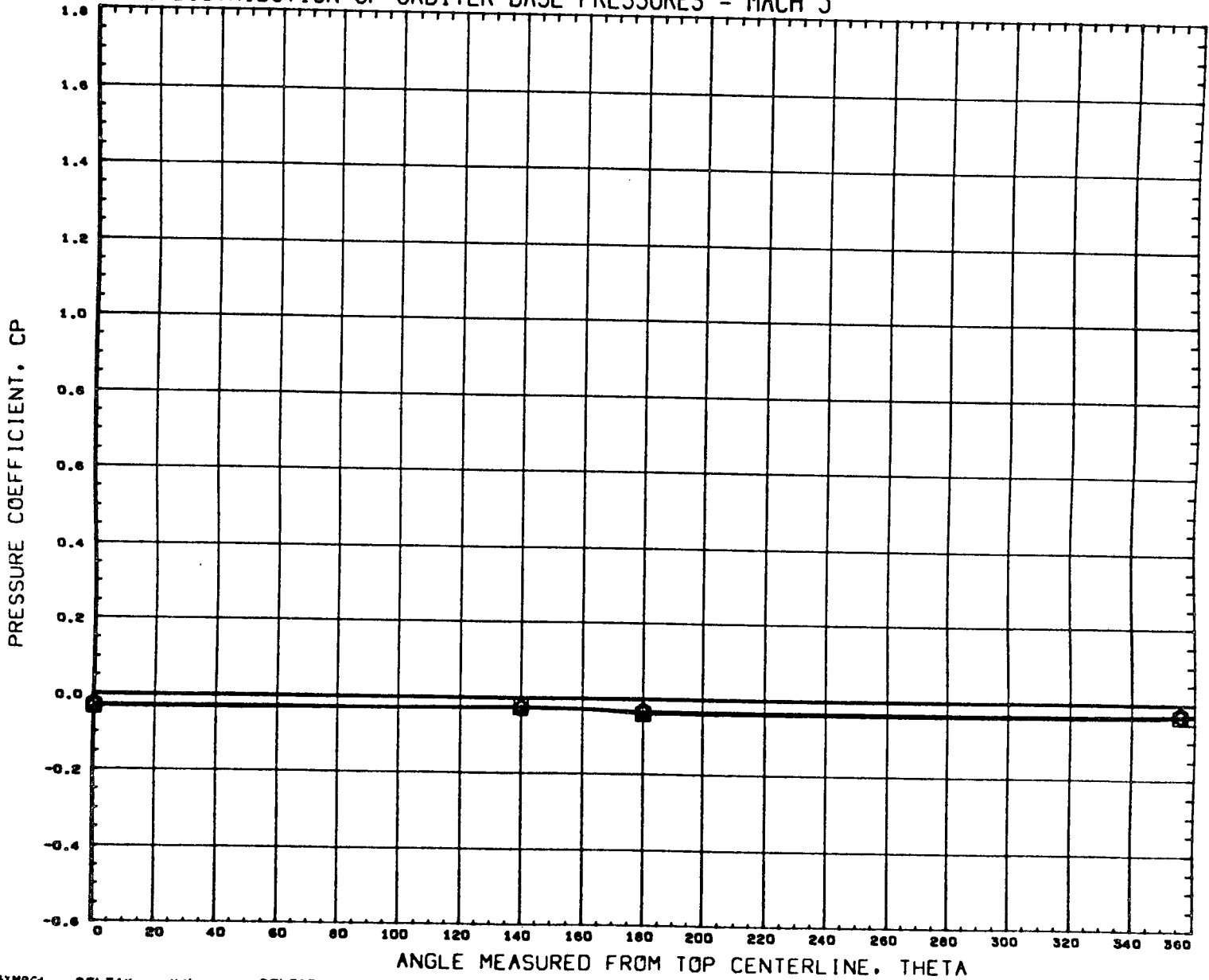
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

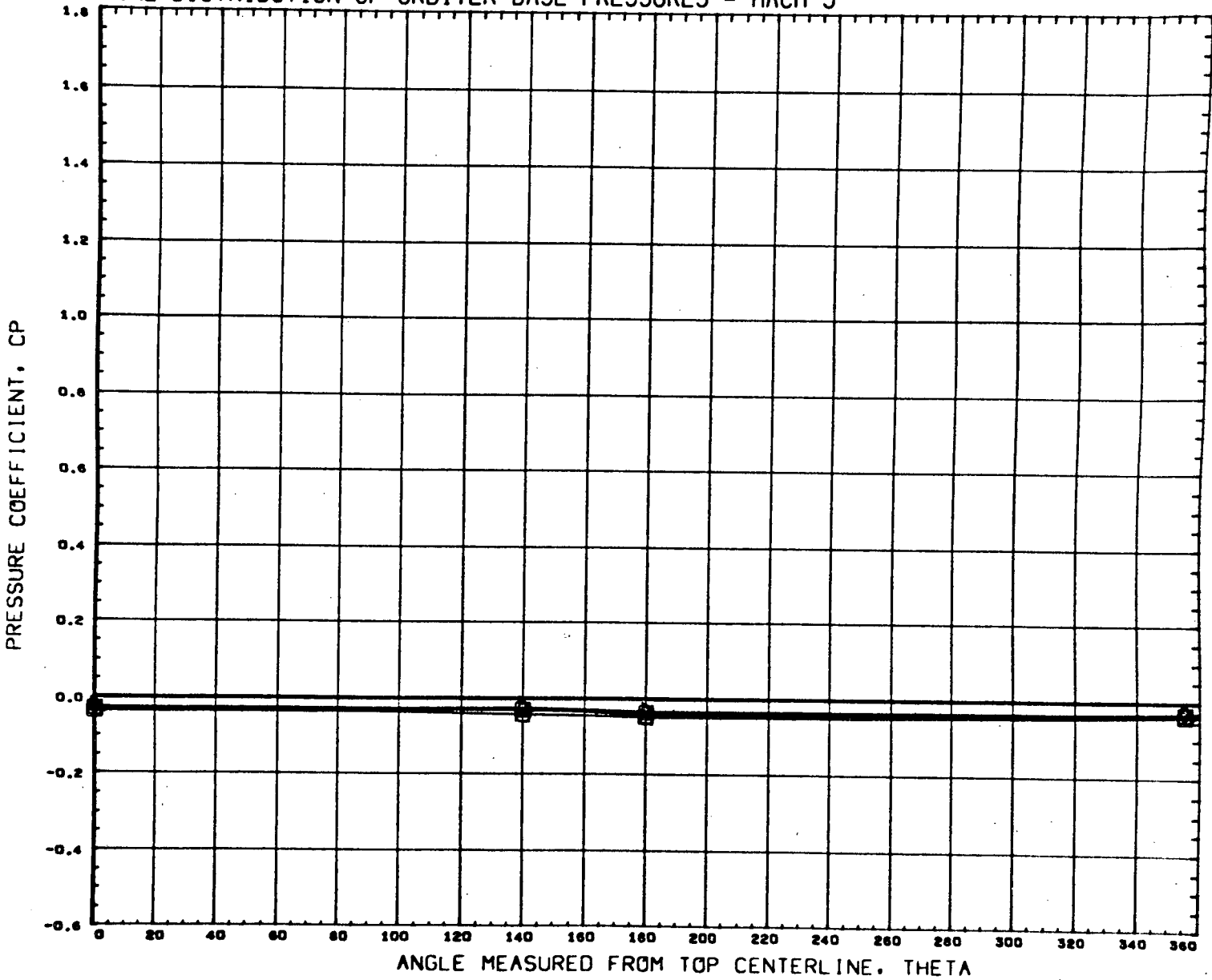
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8512•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

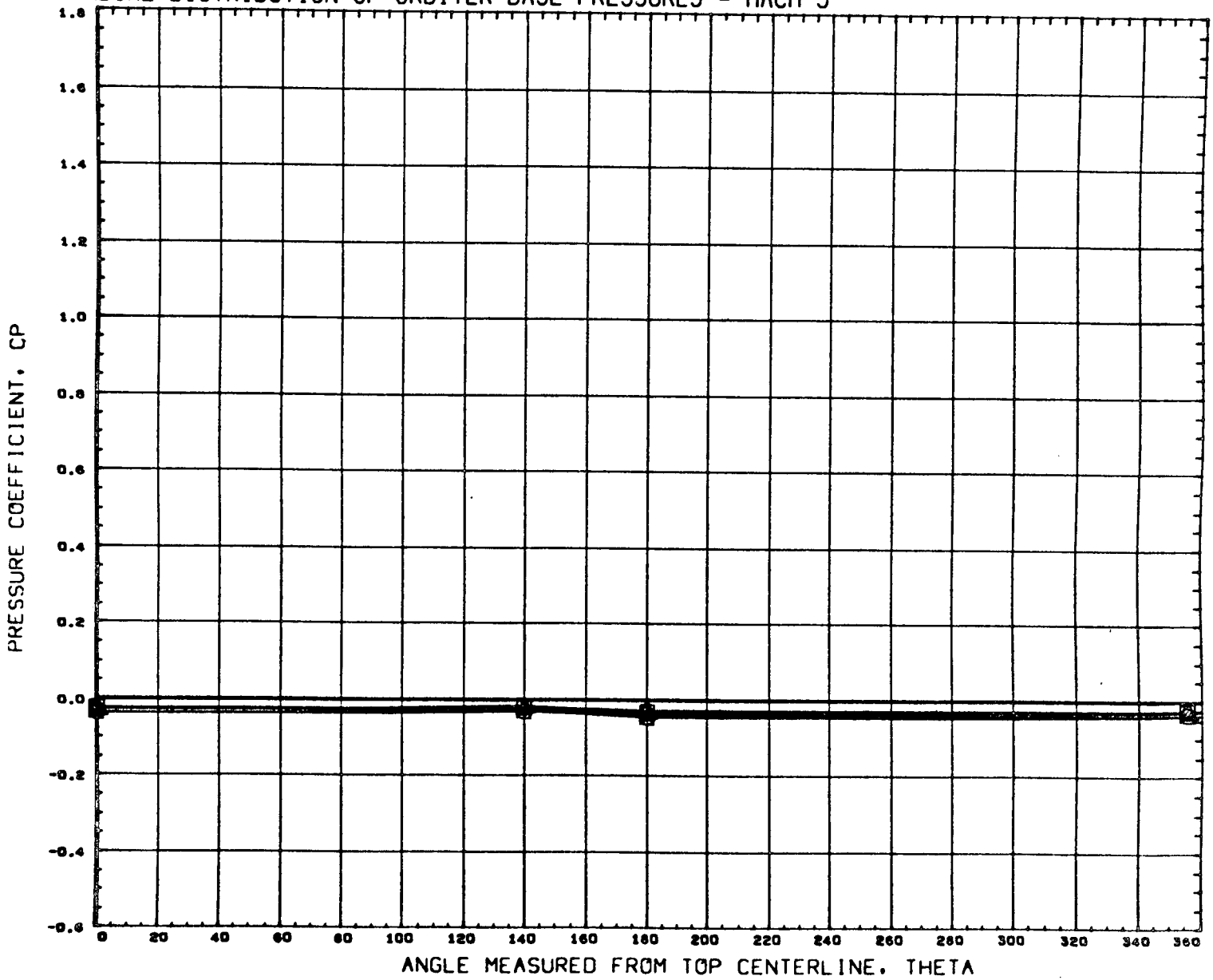


SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.120
○	0.143		
○	0.020		
○	0.103		
○	0.227		
○	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	4.888	MACH 4.940
ALPHA1	0.000	ORBPOW 0.000
BSTPOW	0.000	

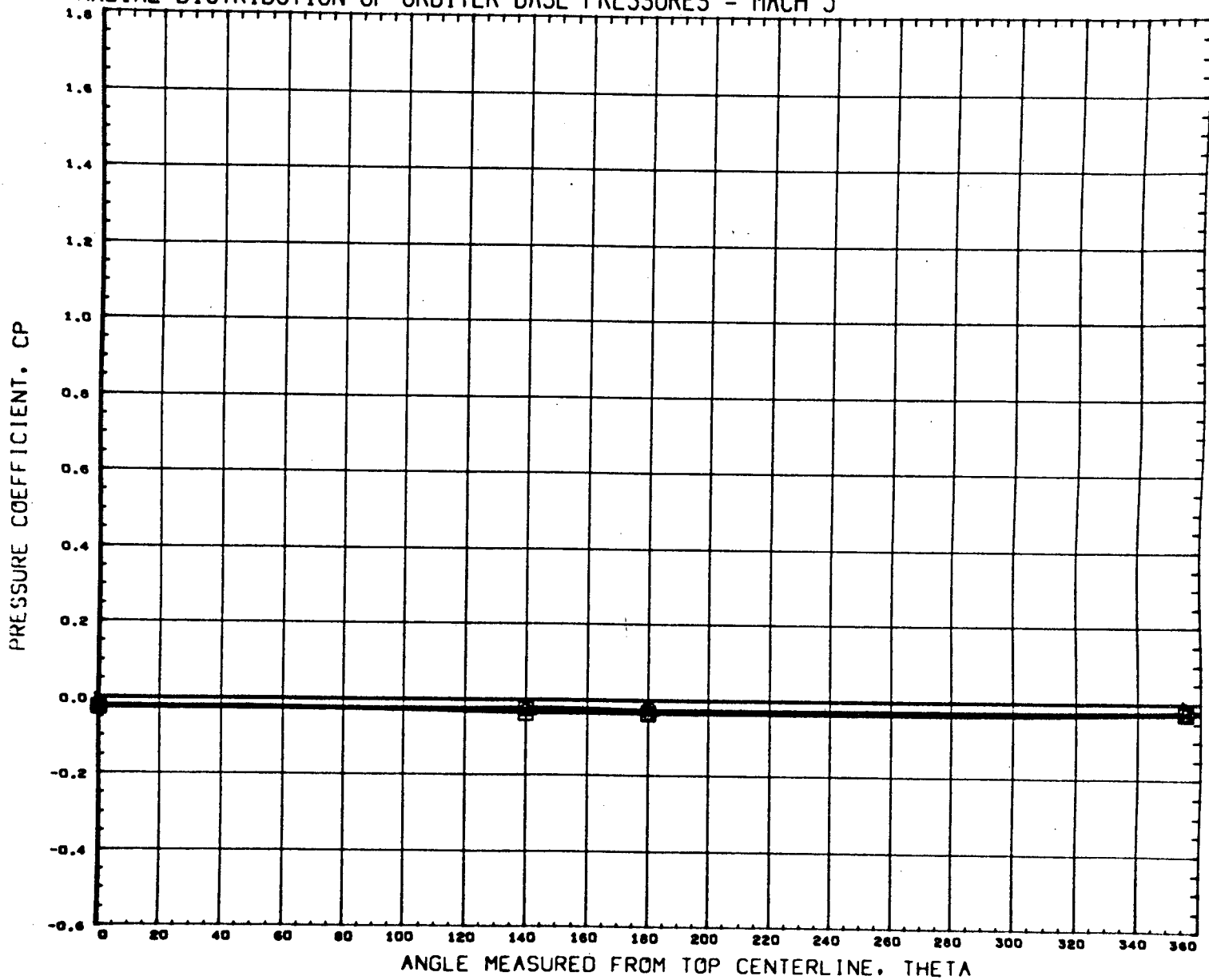
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.151
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◻	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	4.888	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

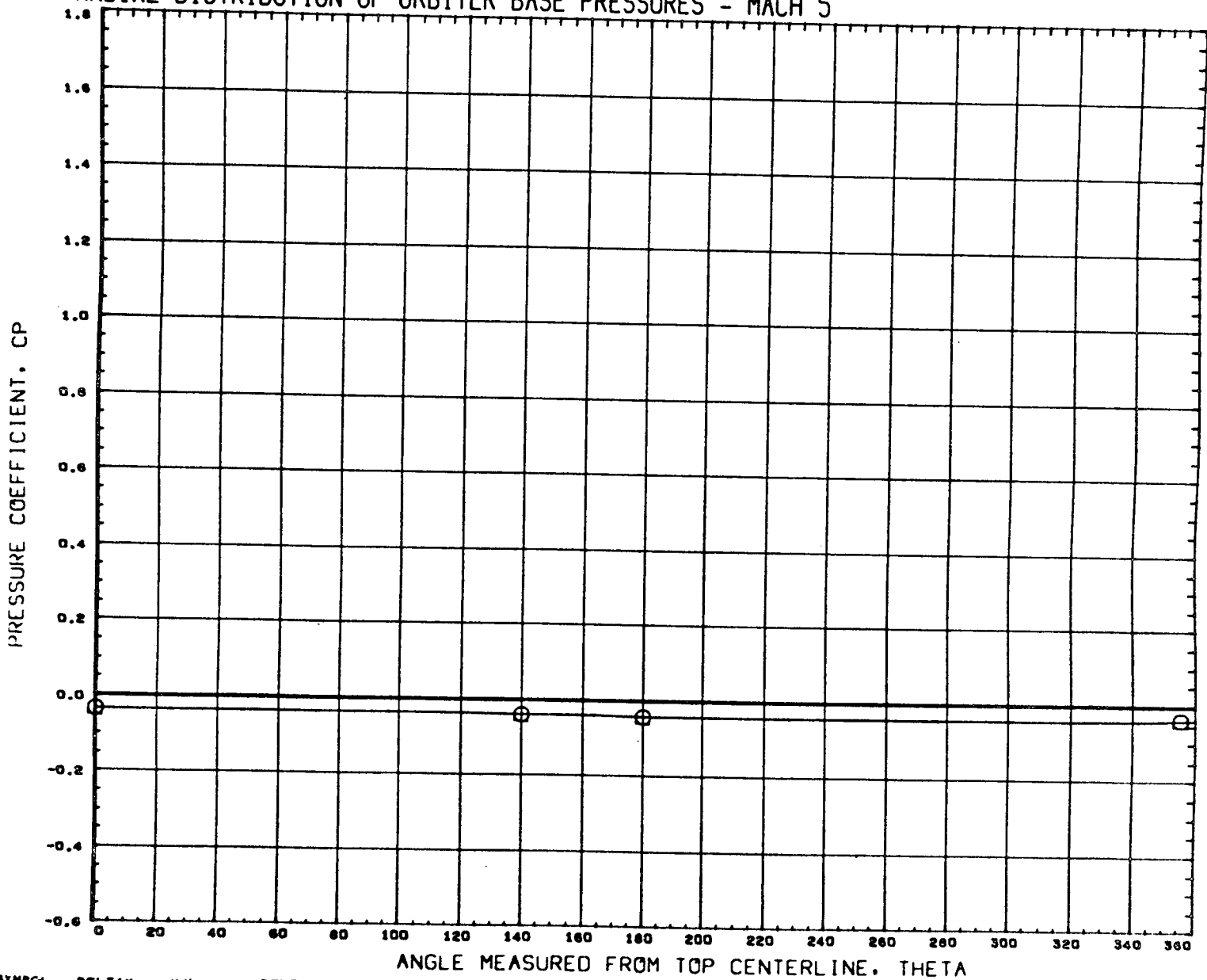


SYMBOL	DELTA X	X/L	DELTA Z
◇	0.390	1.000	0.228
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHA B	4.888	MACH 4.940
ALPHA I	0.000	ORBPOW 0.000
BSTPCW	0.000	

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.520	1.000	0.900

PARAMETRIC VALUES			
ALPHAB	- 4.888	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

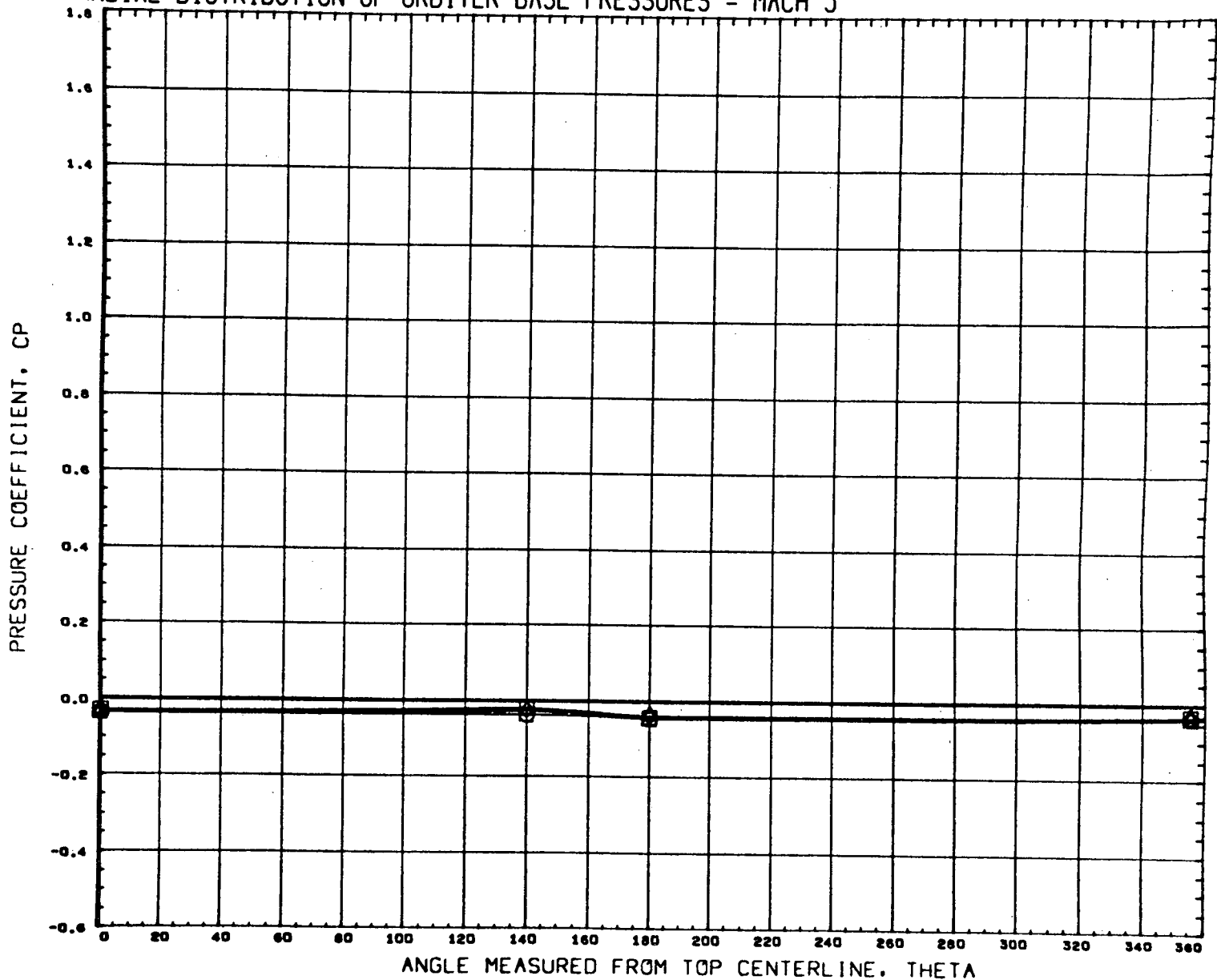
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

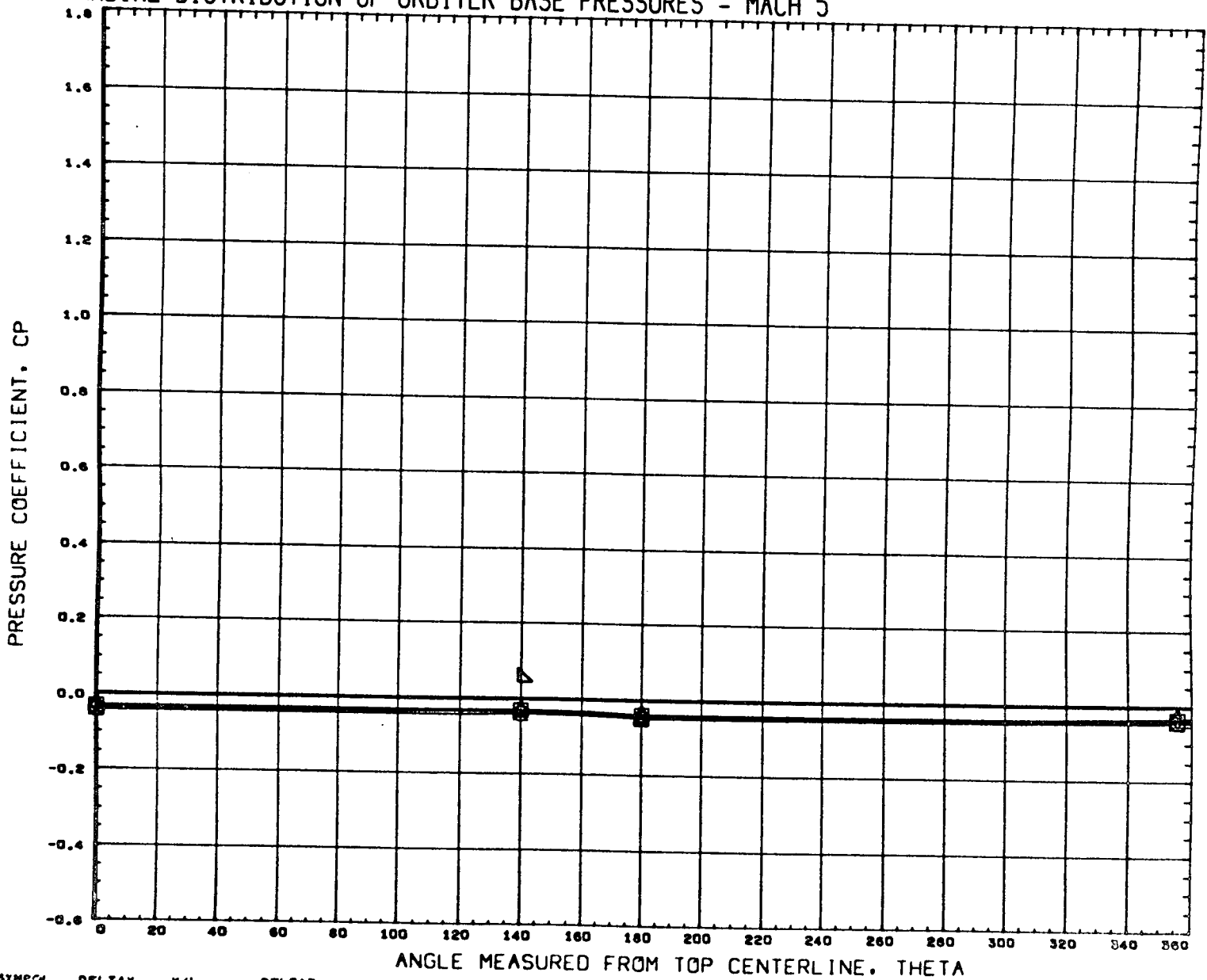
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8513•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

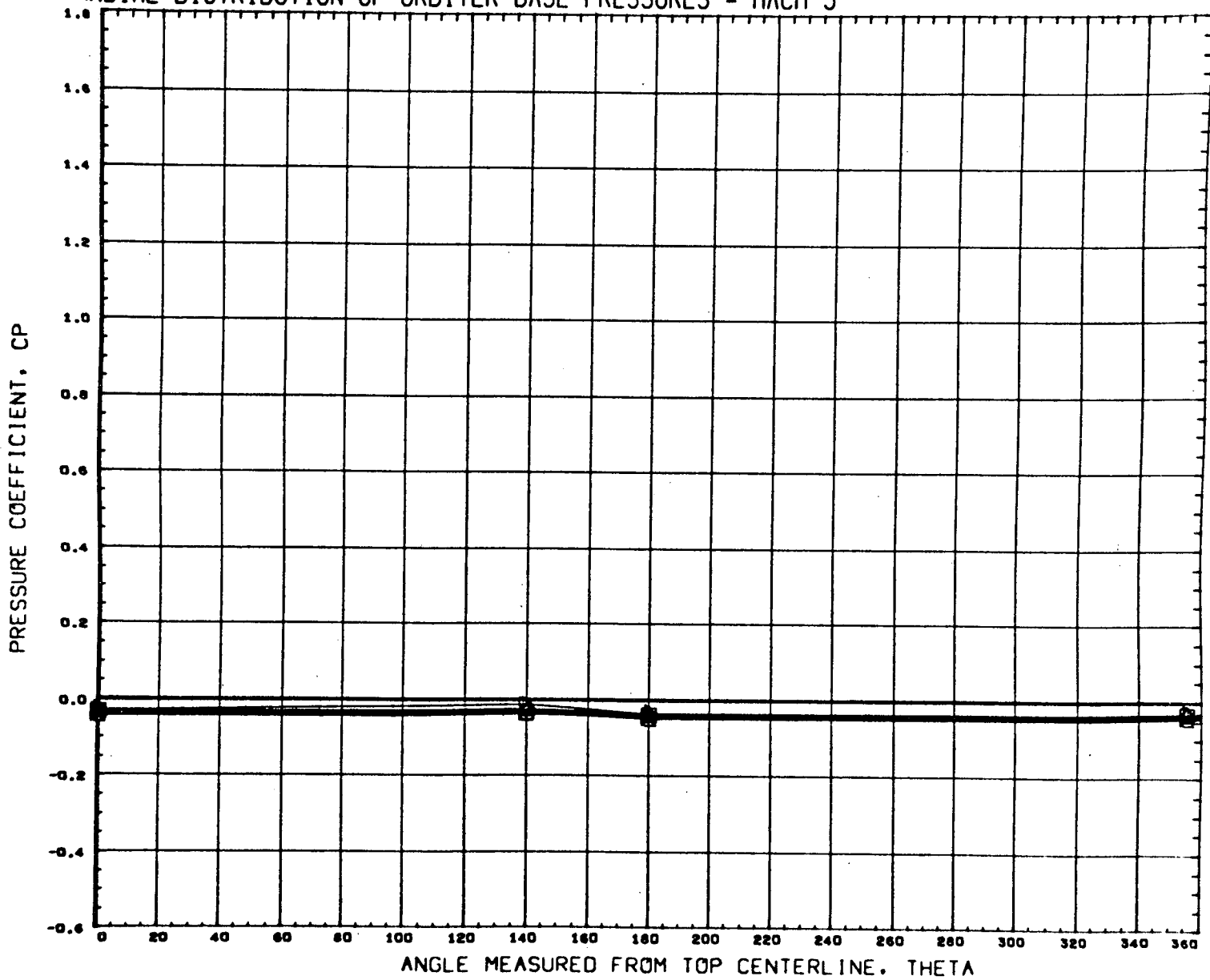


SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.120
△	0.143		
◇	0.020		
□	0.103		
▣	0.227		
◻	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.030	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
83TPOW	0.000		

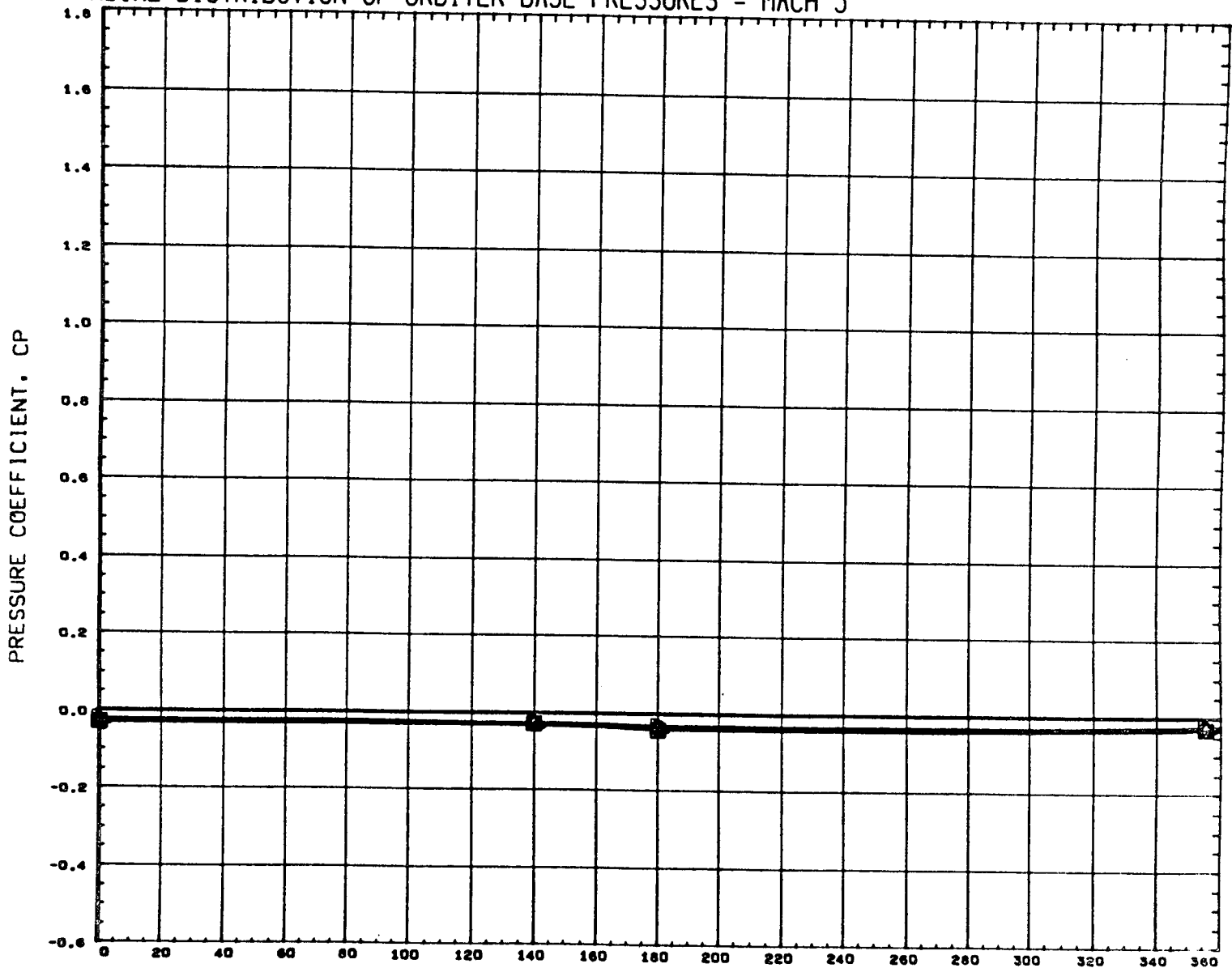
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
◇	0.390	1.000	0.151
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



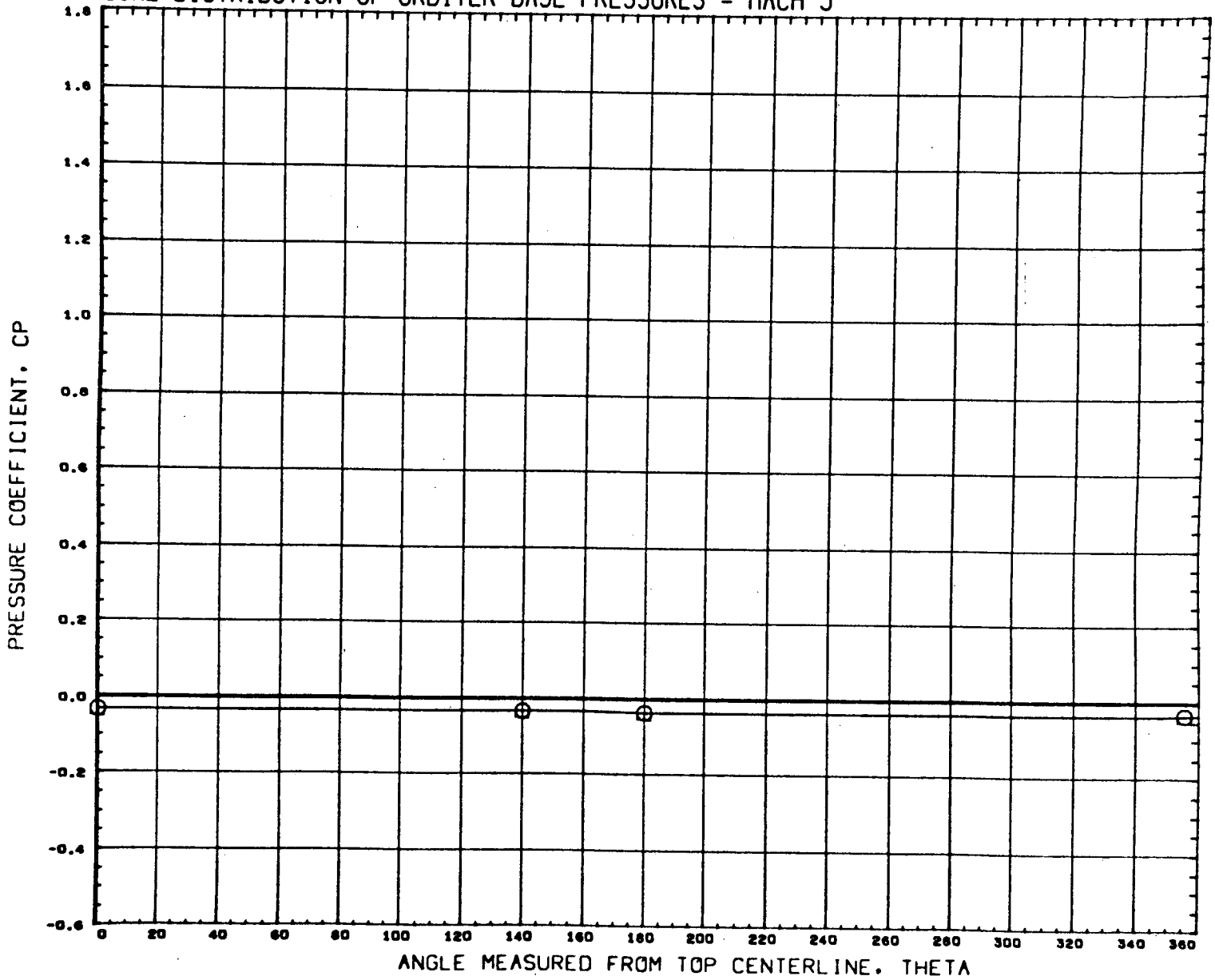
ANGLE MEASURED FROM TOP CENTERLINE, THETA

SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.229
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.050	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 O 0.520 1.000 0.908

PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.940
 ALPHA1 0.000 ORBPOW 0.000
 BSTPOW 0.000

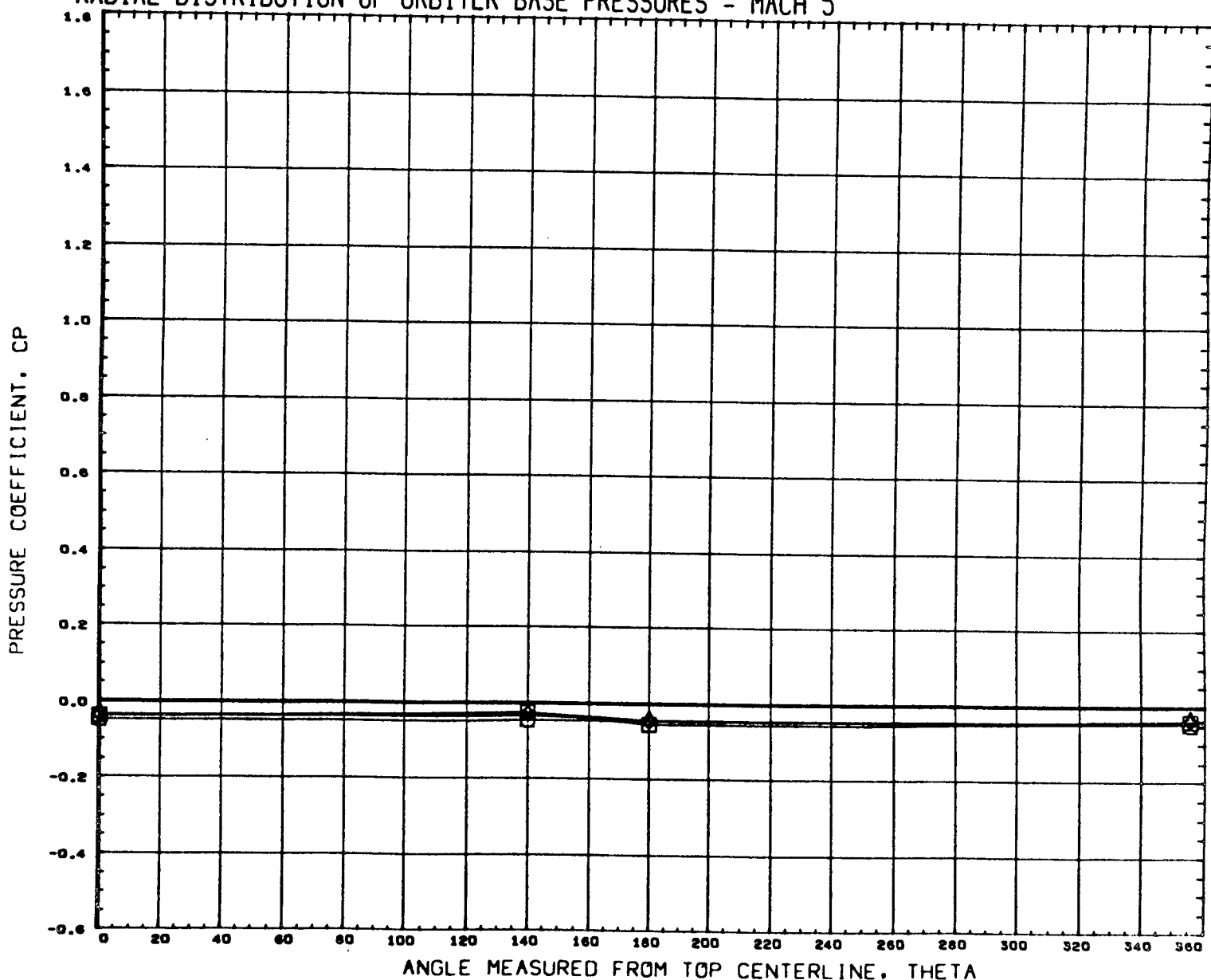
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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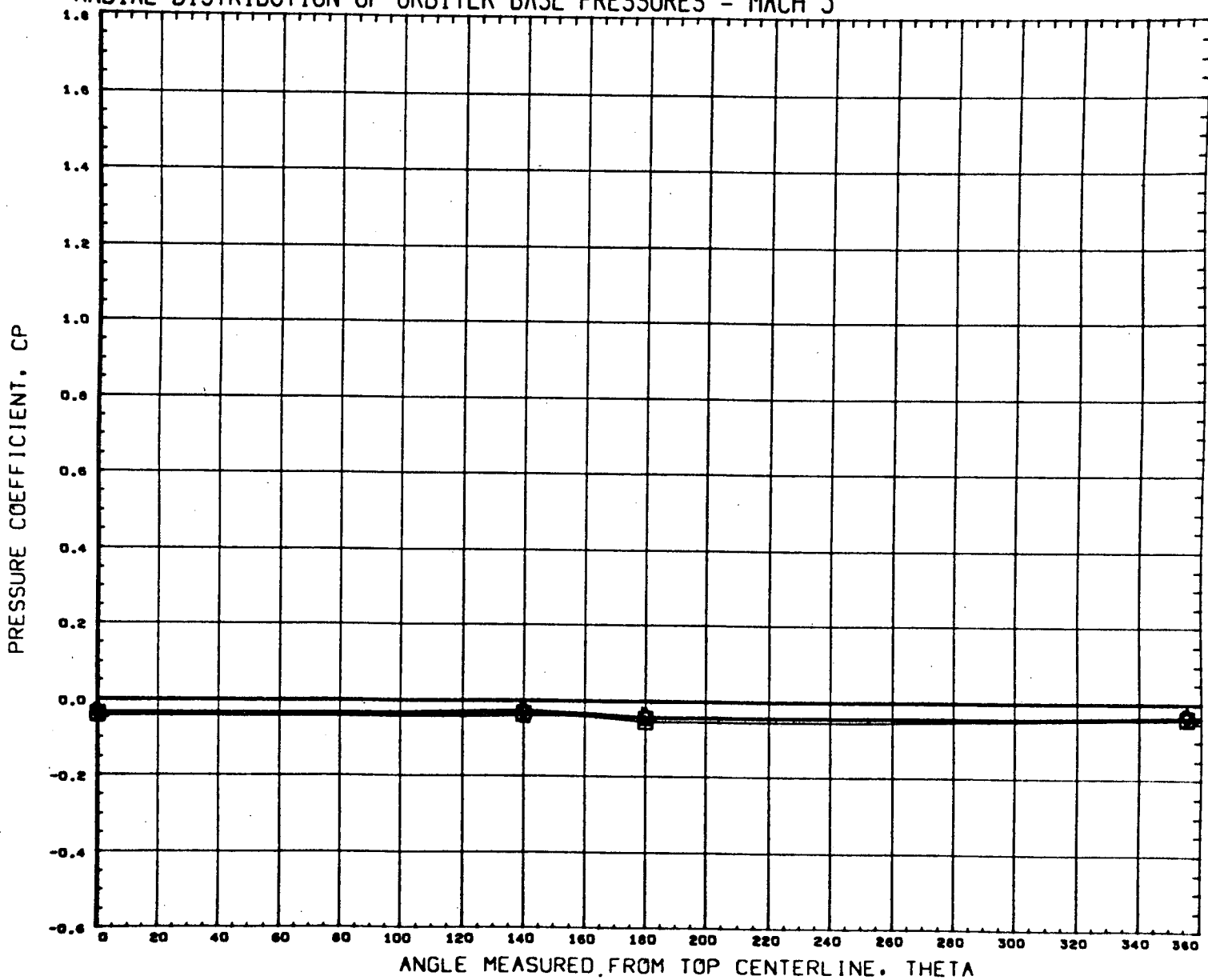
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z	PARAMETRIC VALUES			
○	0.041	1.000	0.114	ALPHA B	5.020	MACH	4.940
△	0.103			ALPHA I	0.000	ORBPOW	0.000
◇	0.165			ESTPOW	0.000		
□	0.350						

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

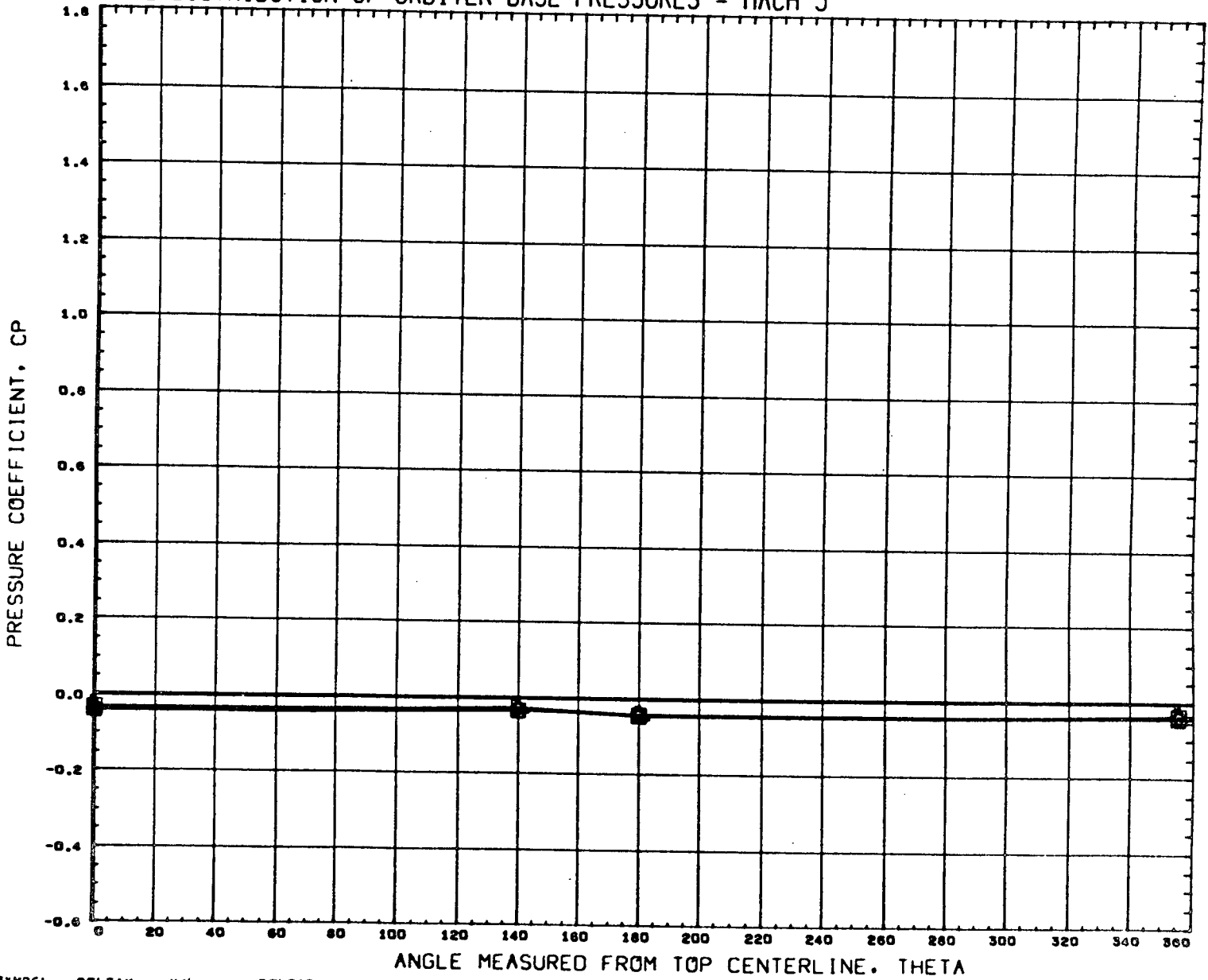


SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.120
◇	0.143		
△	0.020		
□	0.103		
◇	0.227		
△	0.330		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

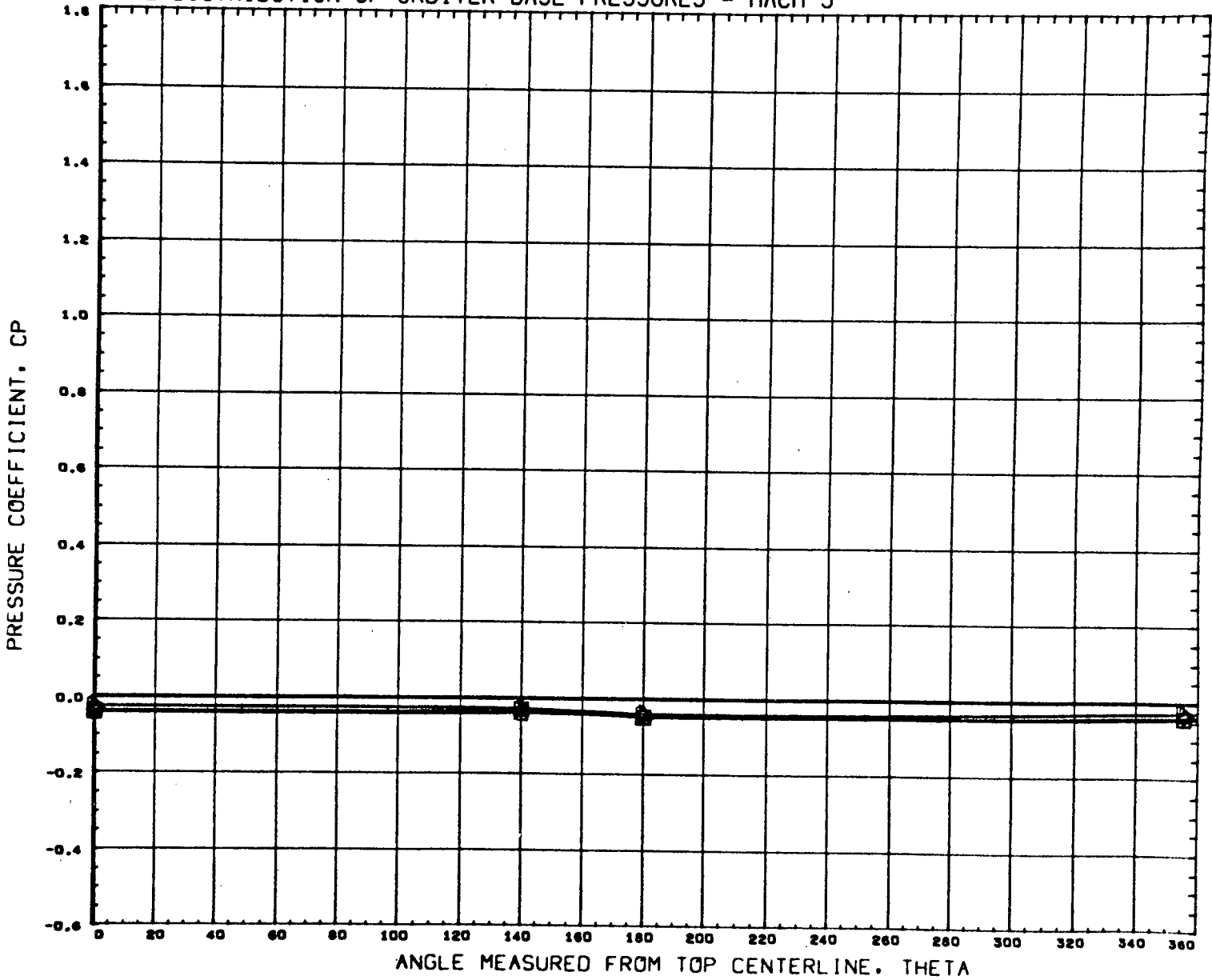
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.151
△	0.143		
□	0.020		
◇	0.103		
◇	0.227		
◇	0.350		REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

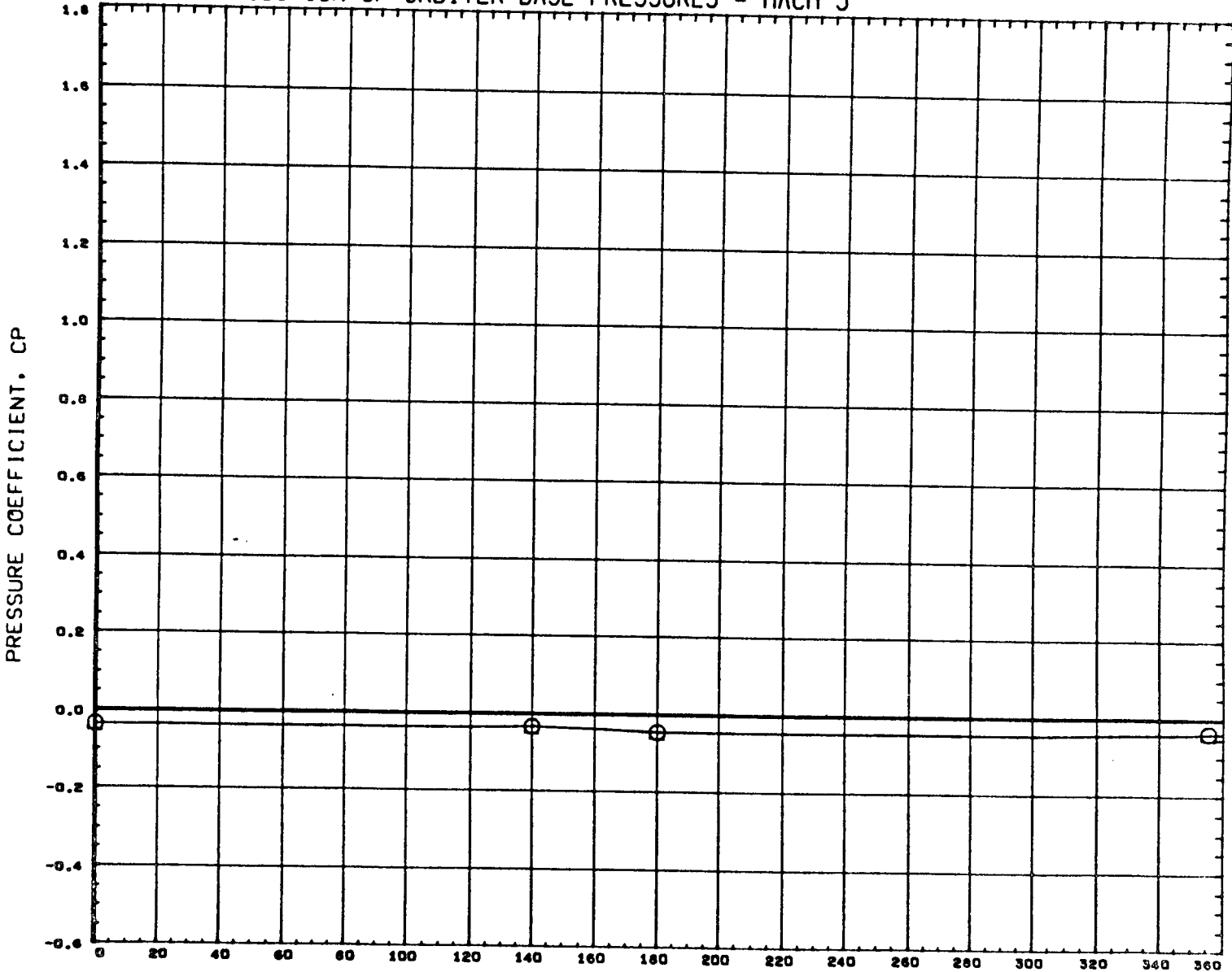


SYMBOL	DELTA X	X/L	DELTA Z
○	- 0.390	1.000	0.228
△	- 0.143		
◇	- 0.020		
□	0.103		
▽	0.227		
◇	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	5.020	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.320	1.000	0.909

PARAMETRIC VALUES			
ALPHA B	5.020	MACH	4.040
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

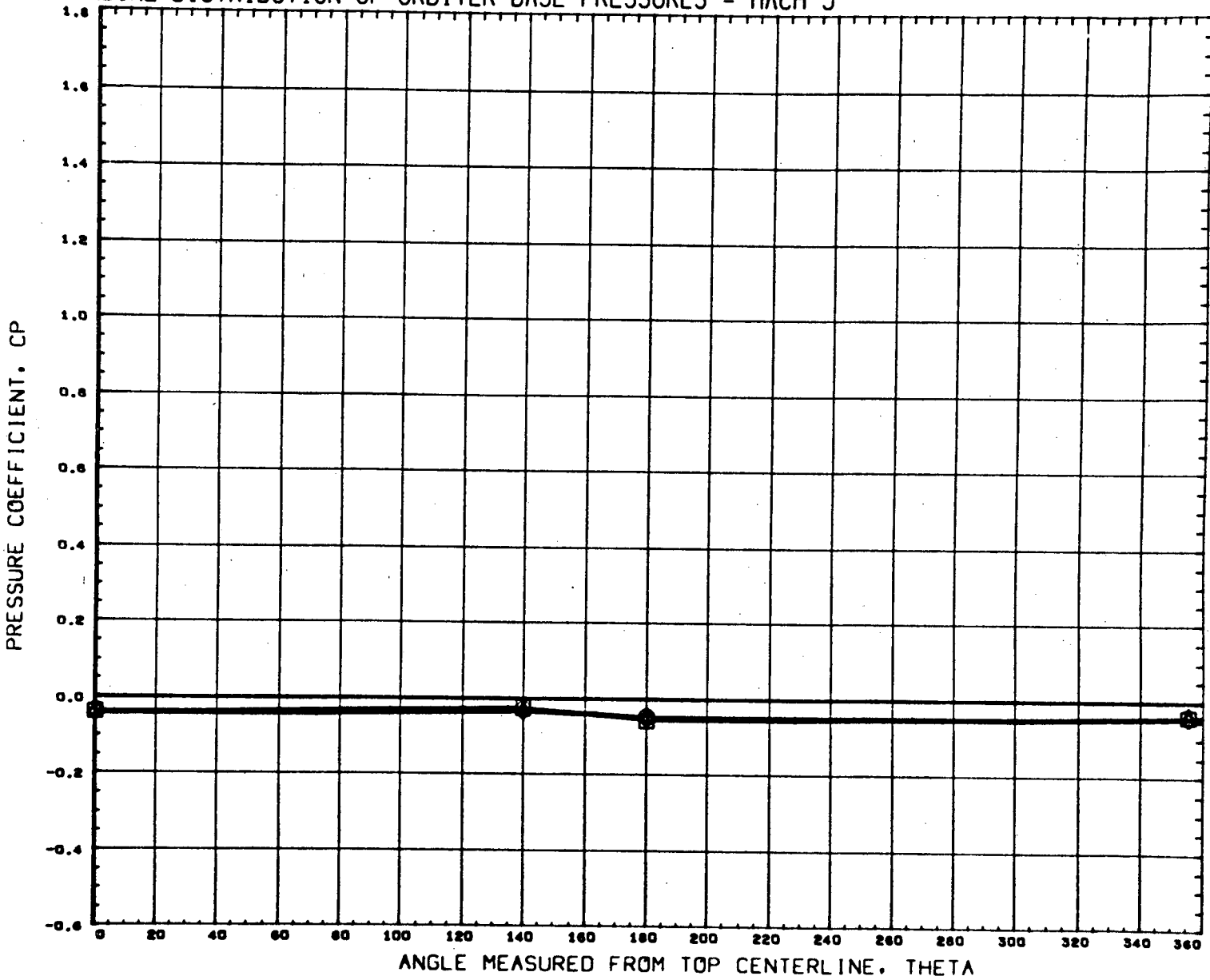
REFERENCE FILE

AEC VA1163 MDAC ORBITER (BASE)

•IT8514•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
◇	0.103		
◇	0.165		
□	0.390		

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

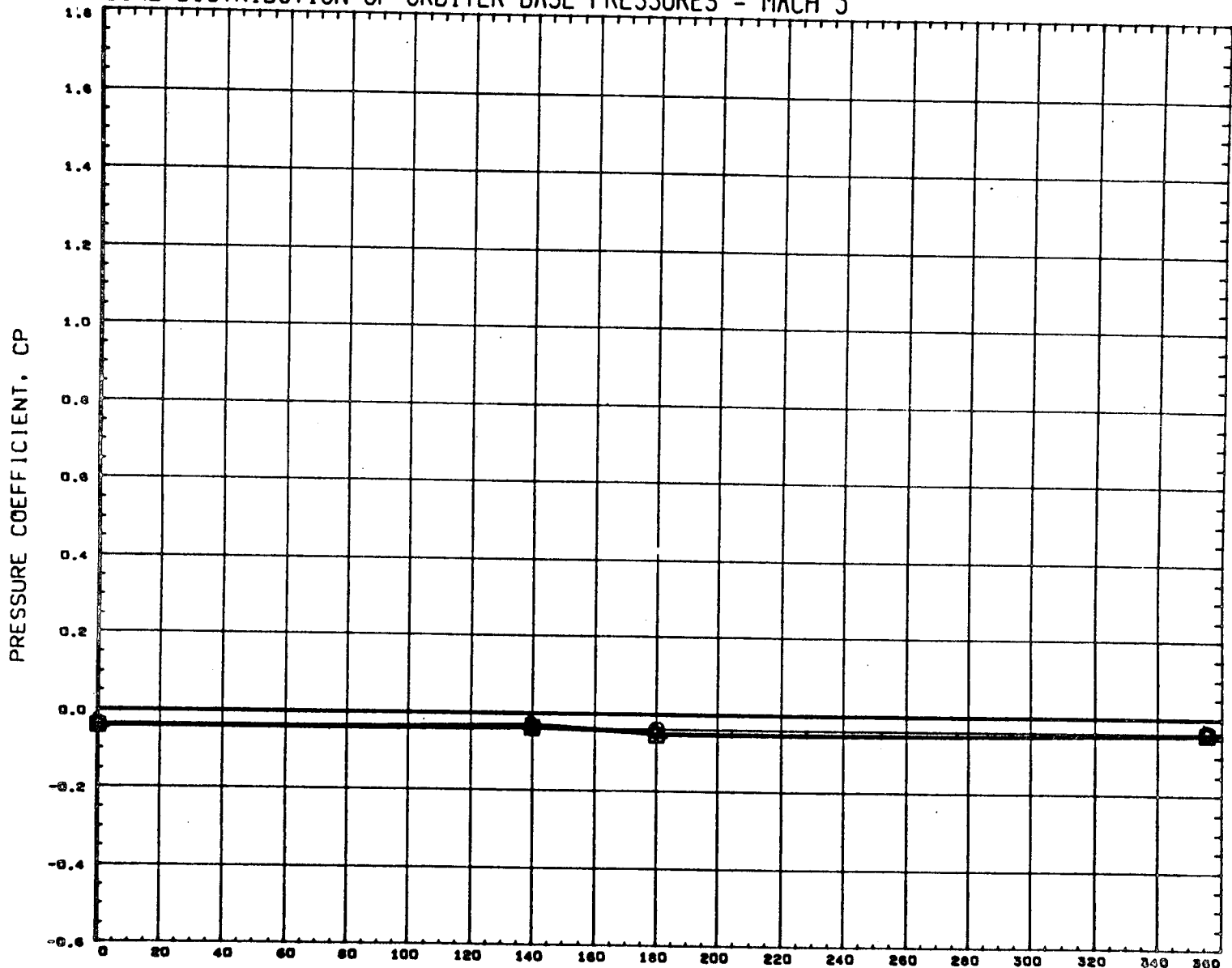
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•118515•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



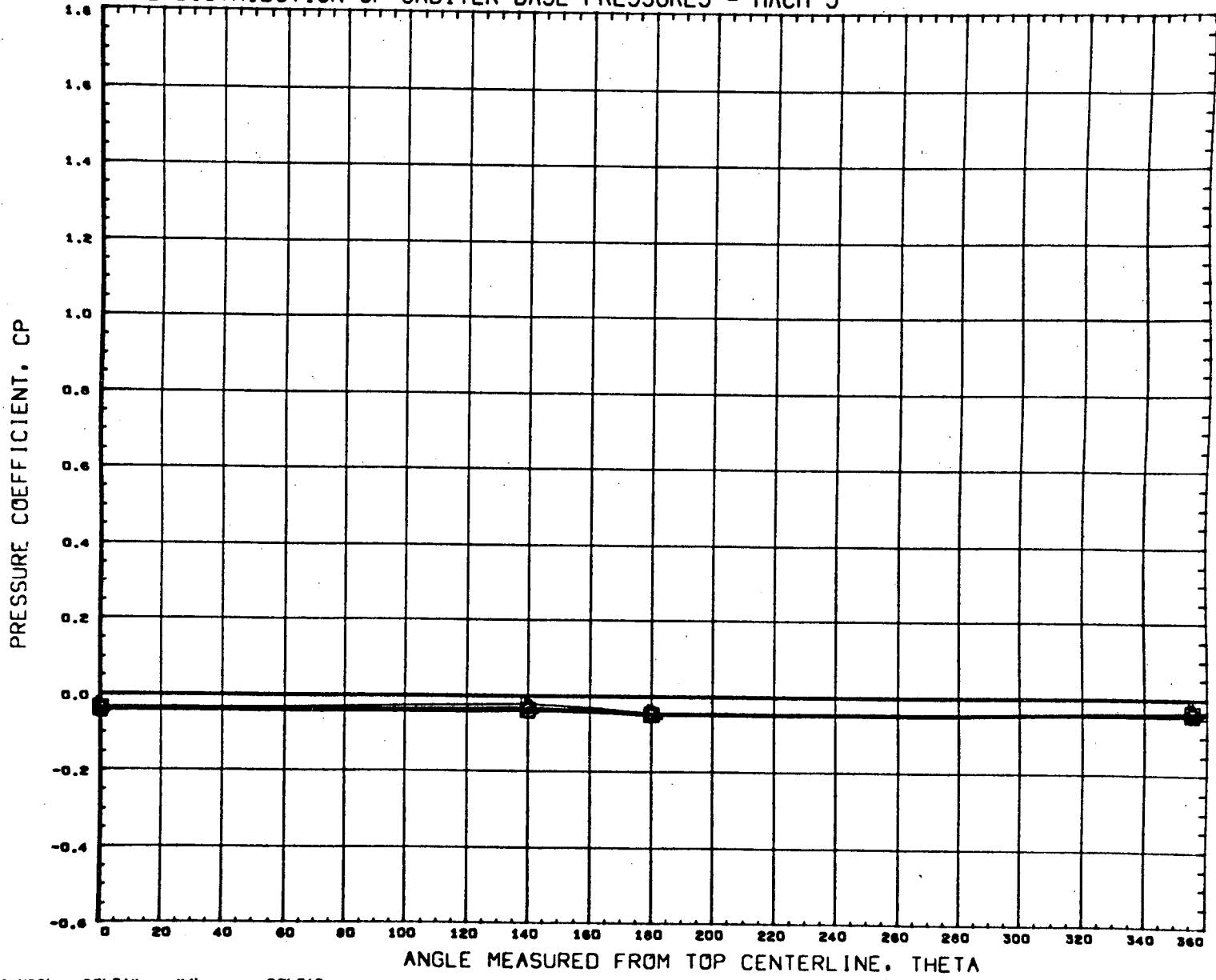
ANGLE MEASURED FROM TOP CENTERLINE, THETA

SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.120
○	0.143		
○	0.020		
○	0.103		
○	0.227		
○	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHA _B	10.063	MACH	4.940
ALPHA _I	0.000	ORBPOW	0.000
BSTPOW	0.000		

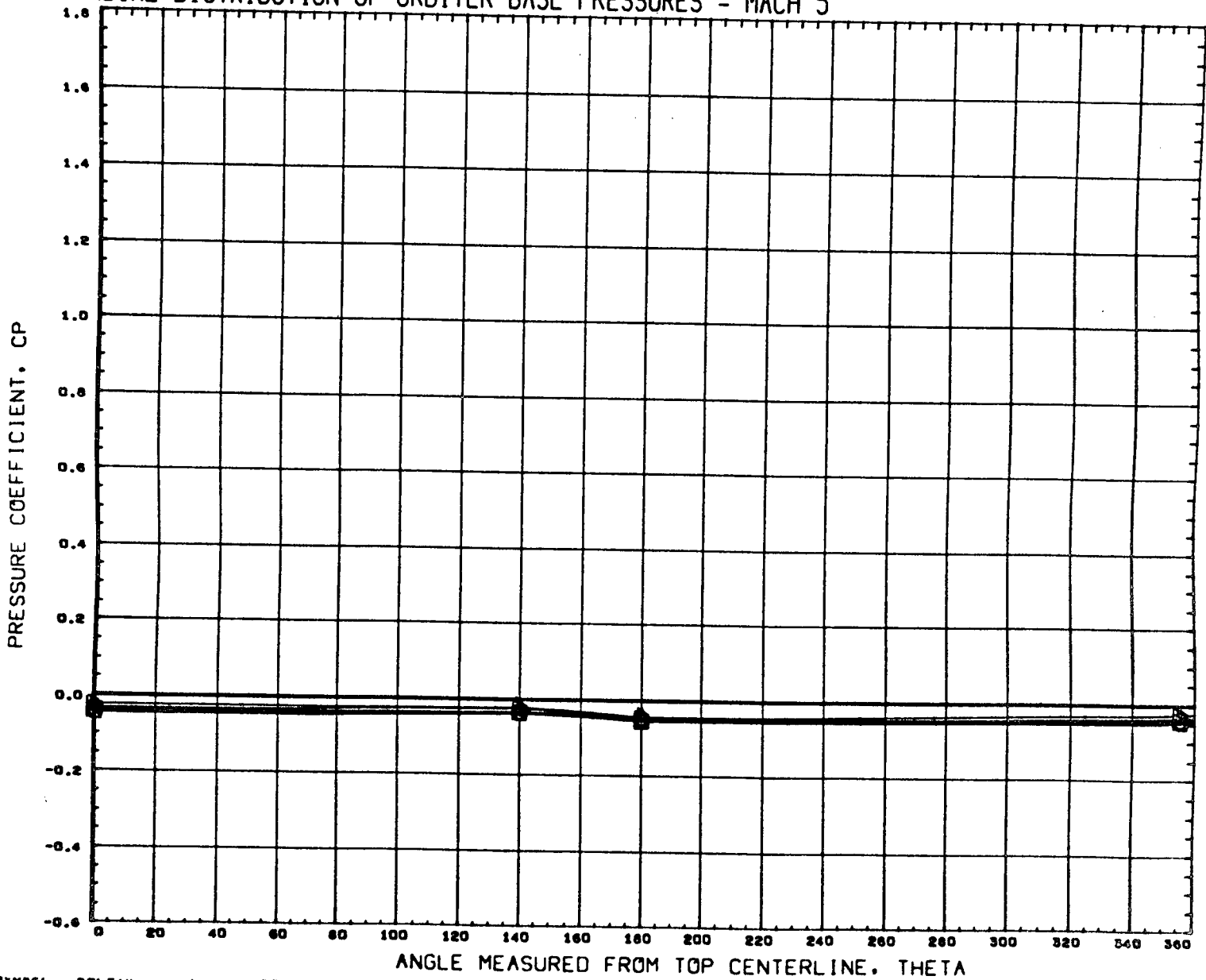
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.151
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES		
ALPHAB	10.063	MACH 4.940
ALPHAI	0.000	ORBPOW 0.000
BSTPOW	0.000	

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

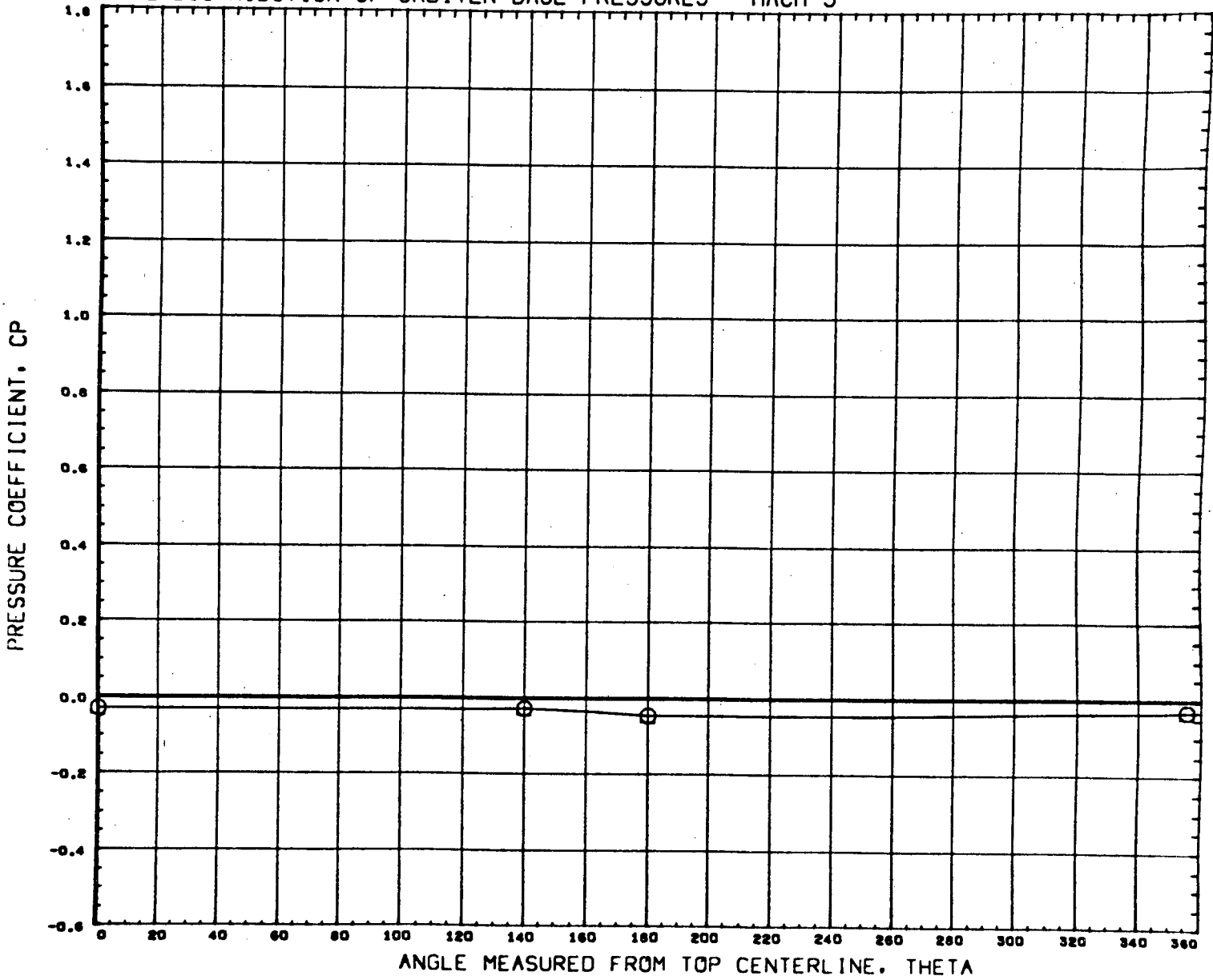


SYMBOL	DELTA X	X/L	DELTA Z
○	0.399	1.000	0.226
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHA B	10.063	MACH	4.940
ALPHA I	0.000	ORBPOW	0.000
88TPOW	0.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.320	1.000	0.909

PARAMETRIC VALUES			
ALPHAB	10.063	MACH	4.940
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

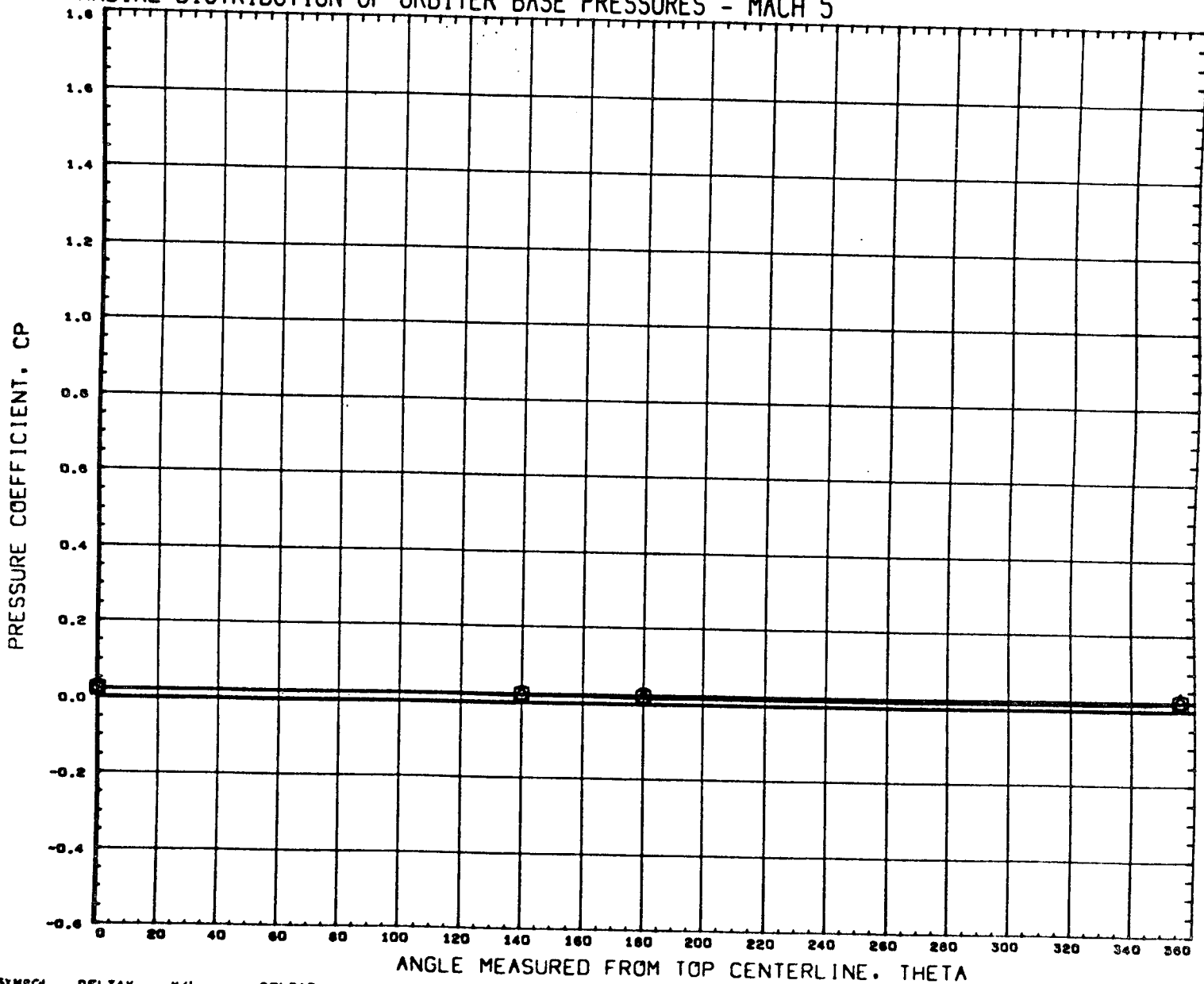
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.183		
□	0.350		

PARAMETRIC VALUES			
ALPHA B	- 9.932	MACH	4.940
ALPHA I	0.000	ORBPOW	90.000
BSTPOW	100.000		

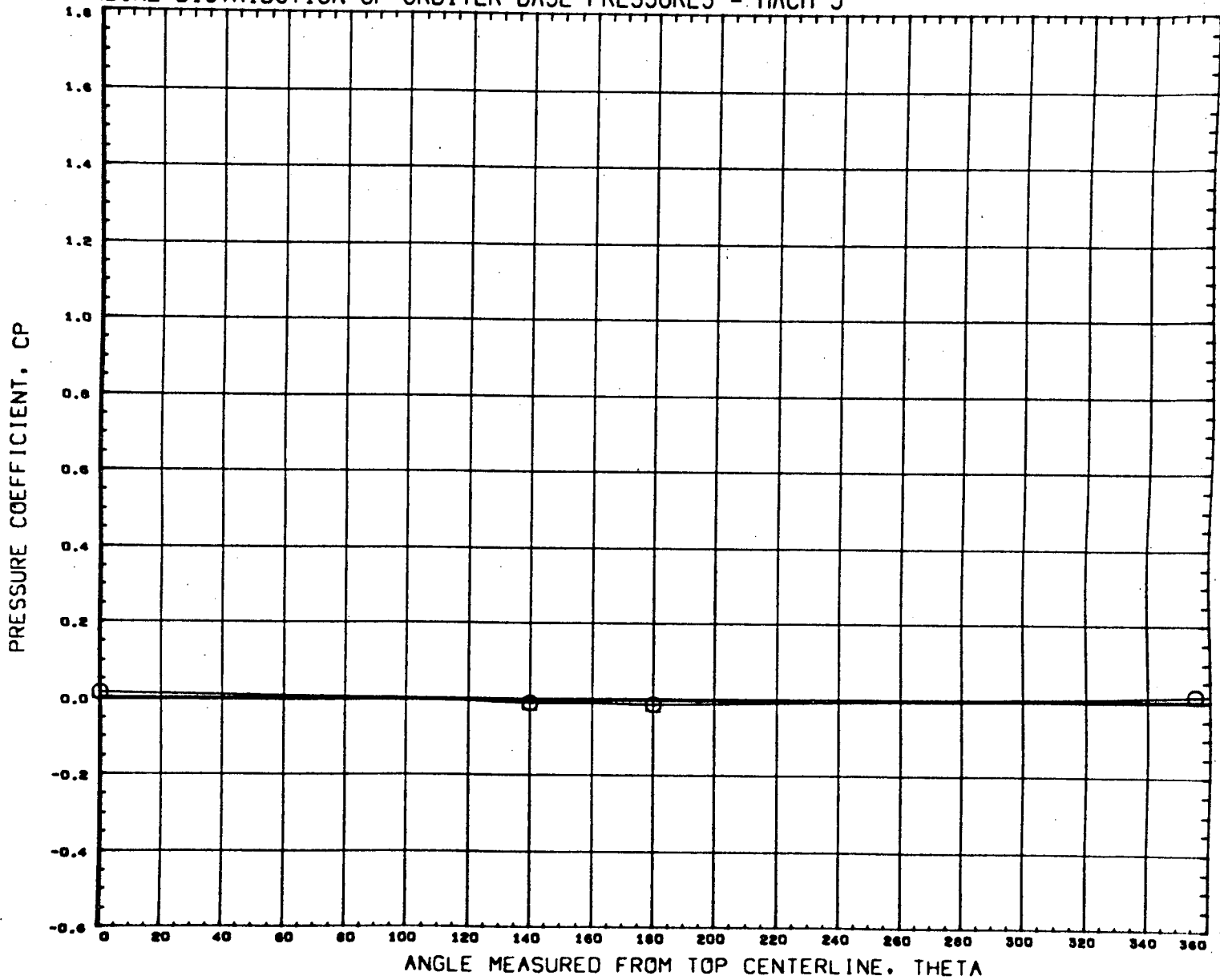
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8521•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 ○ 0.525 1.000 0.908

PARAMETRIC VALUES
 ALPHAB - 9.932 MACH 4.940
 ALPHA1 0.000 ORBPOW 50.000
 BSTPOW 100.000

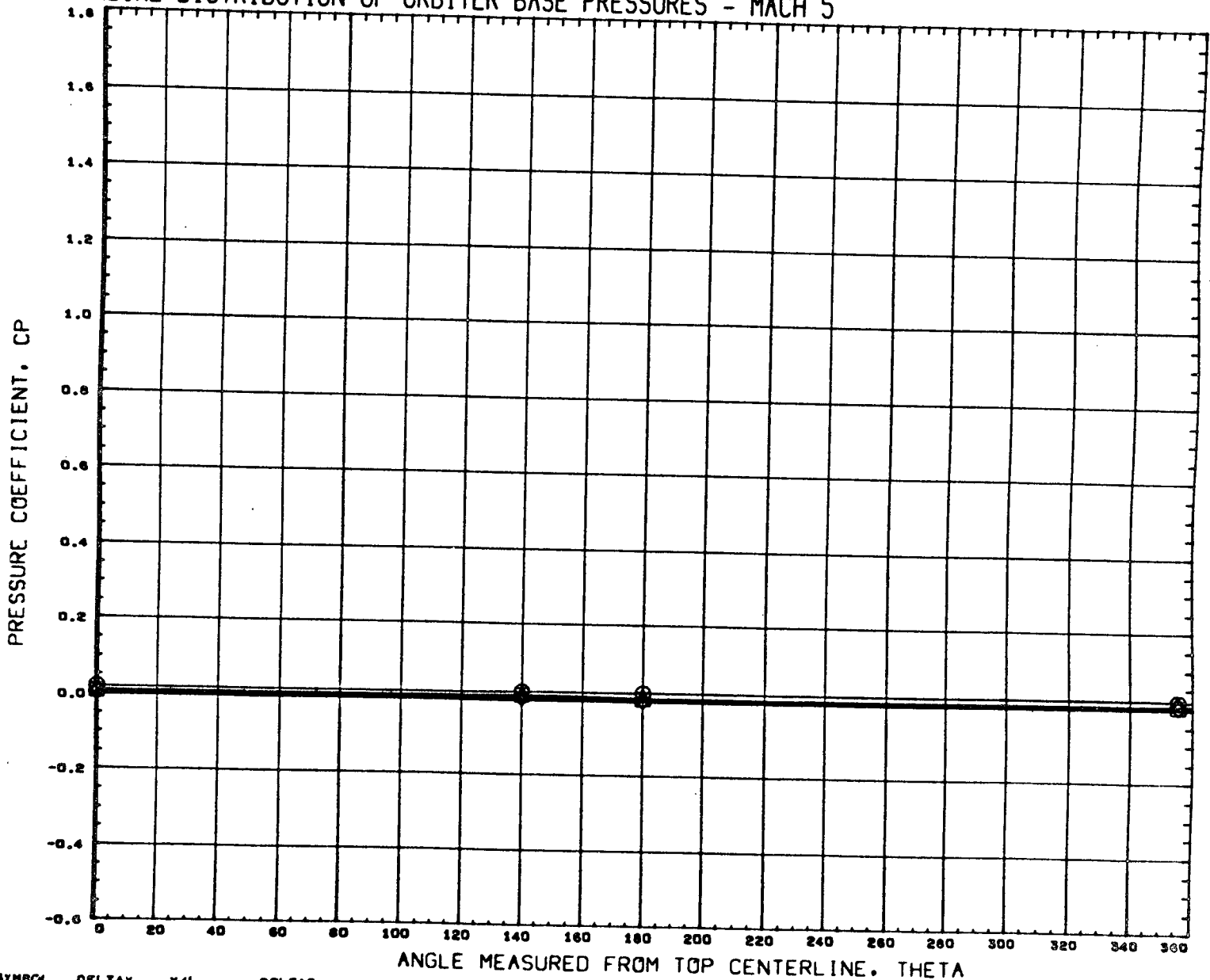
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	- 4.908	MACH	4.940
ALPHA I	0.000	ORBPOW	50.000
BSTPOW	100.000		

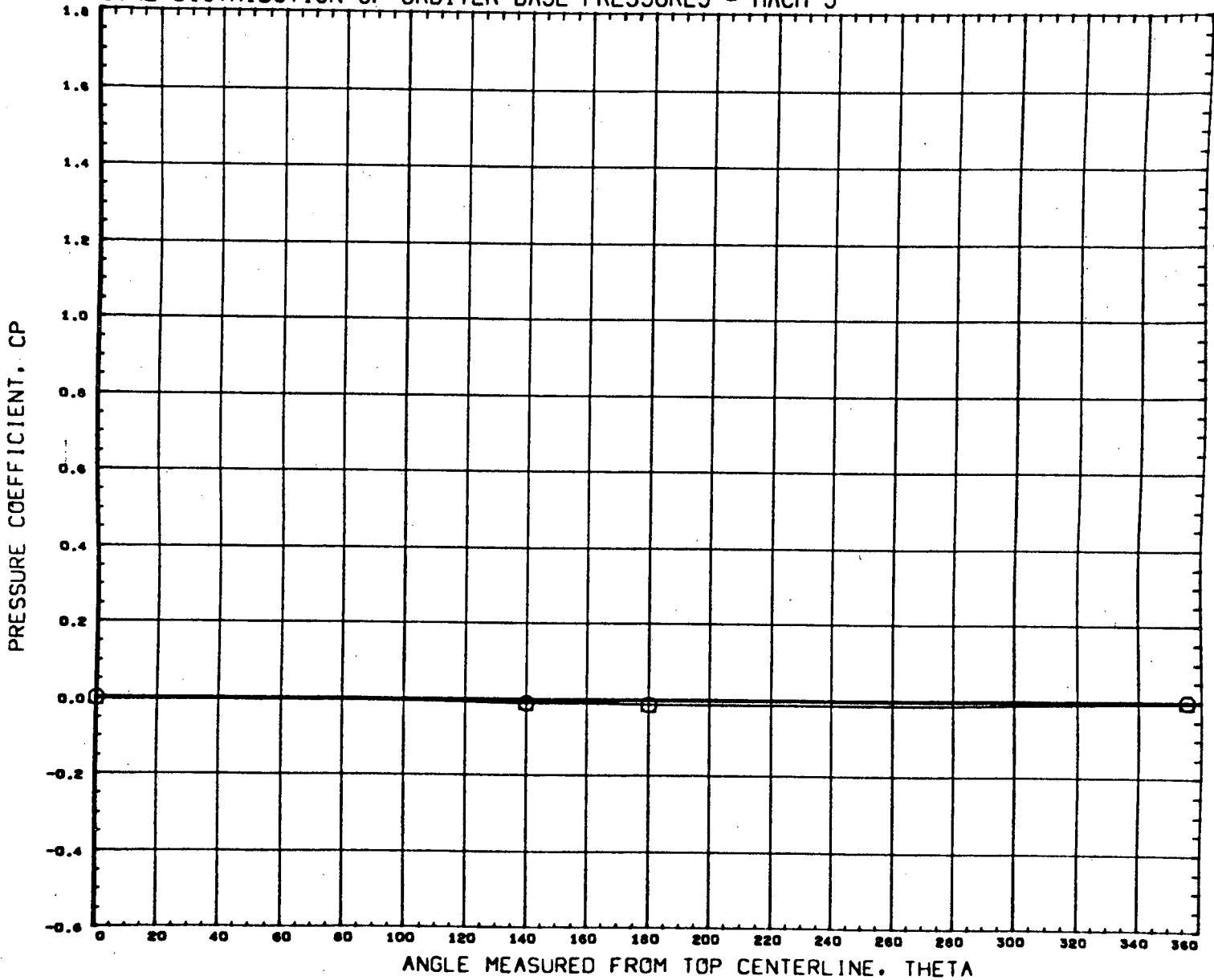
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•1T8522•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.520	1.000	0.906

PARAMETRIC VALUES			
ALPHAB	- 4.906	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BSTPOW	100.000		

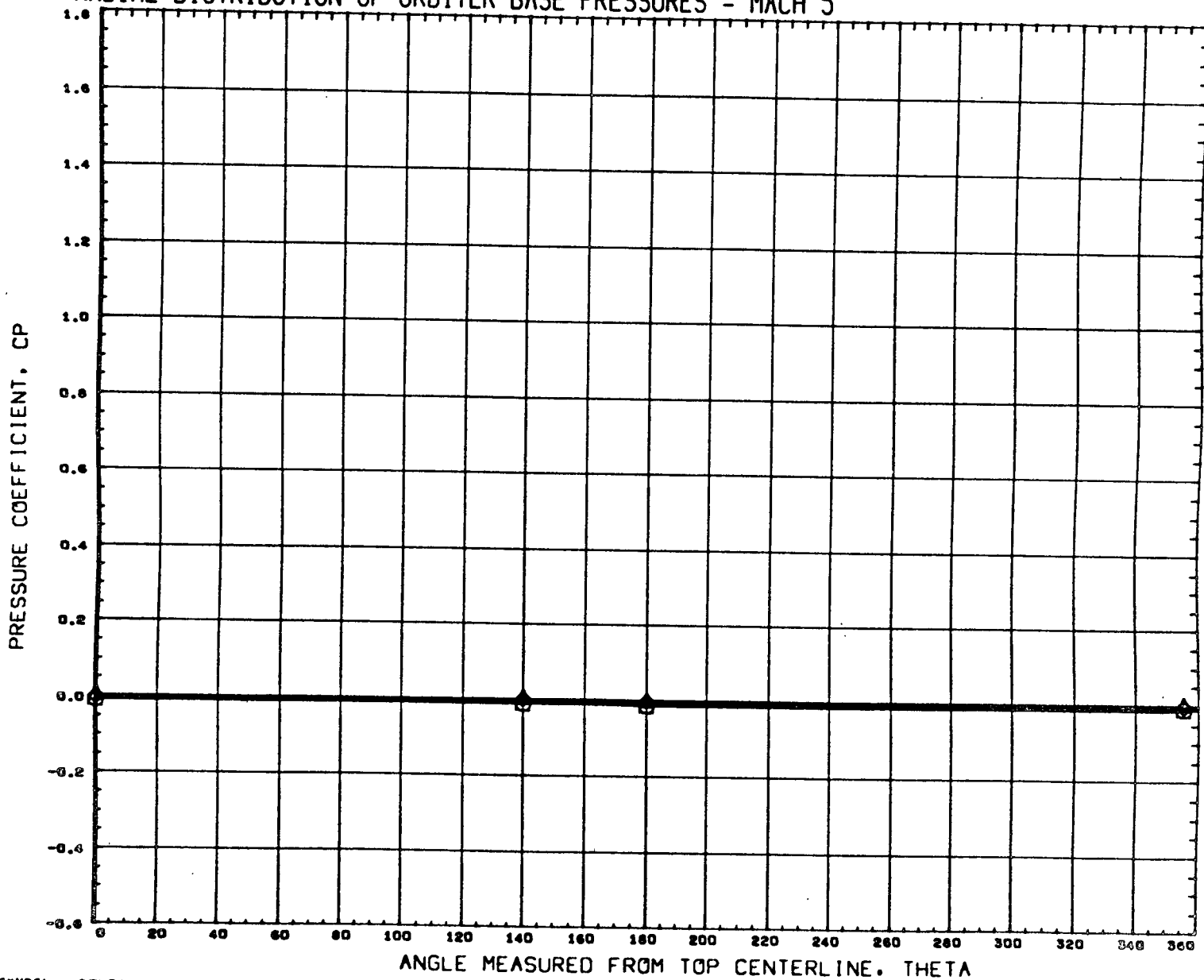
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	0.037	MACH	4.940
ALPHA1	0.000	ORBPOW	90.000
BSTPOW	100.000		

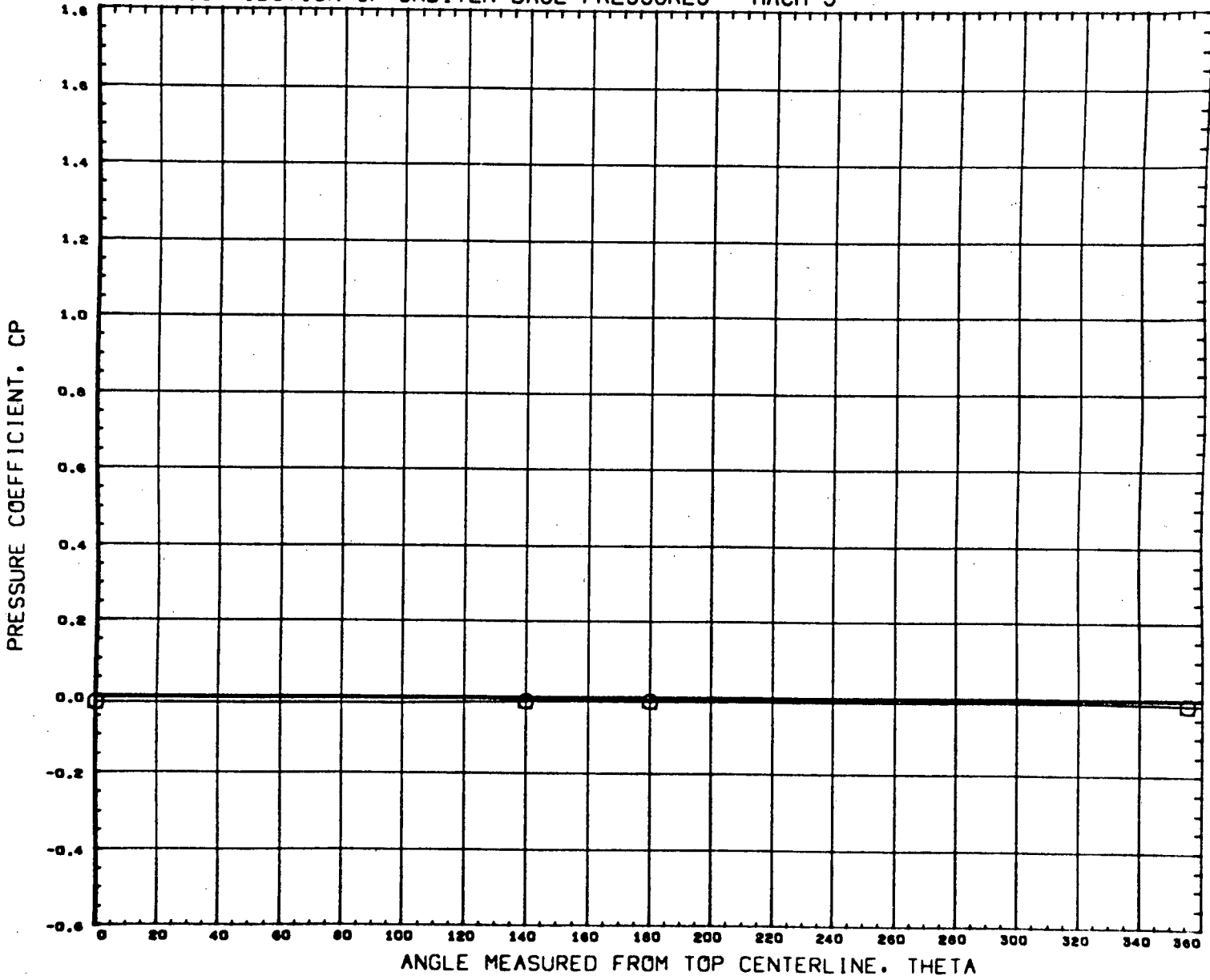
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.320	1.000	0.900

PARAMETRIC VALUES			
ALPHA B	0.037	MACH	4.940
ALPHA I	0.000	ORBPOW	50.000
BSTPOW	100.000		

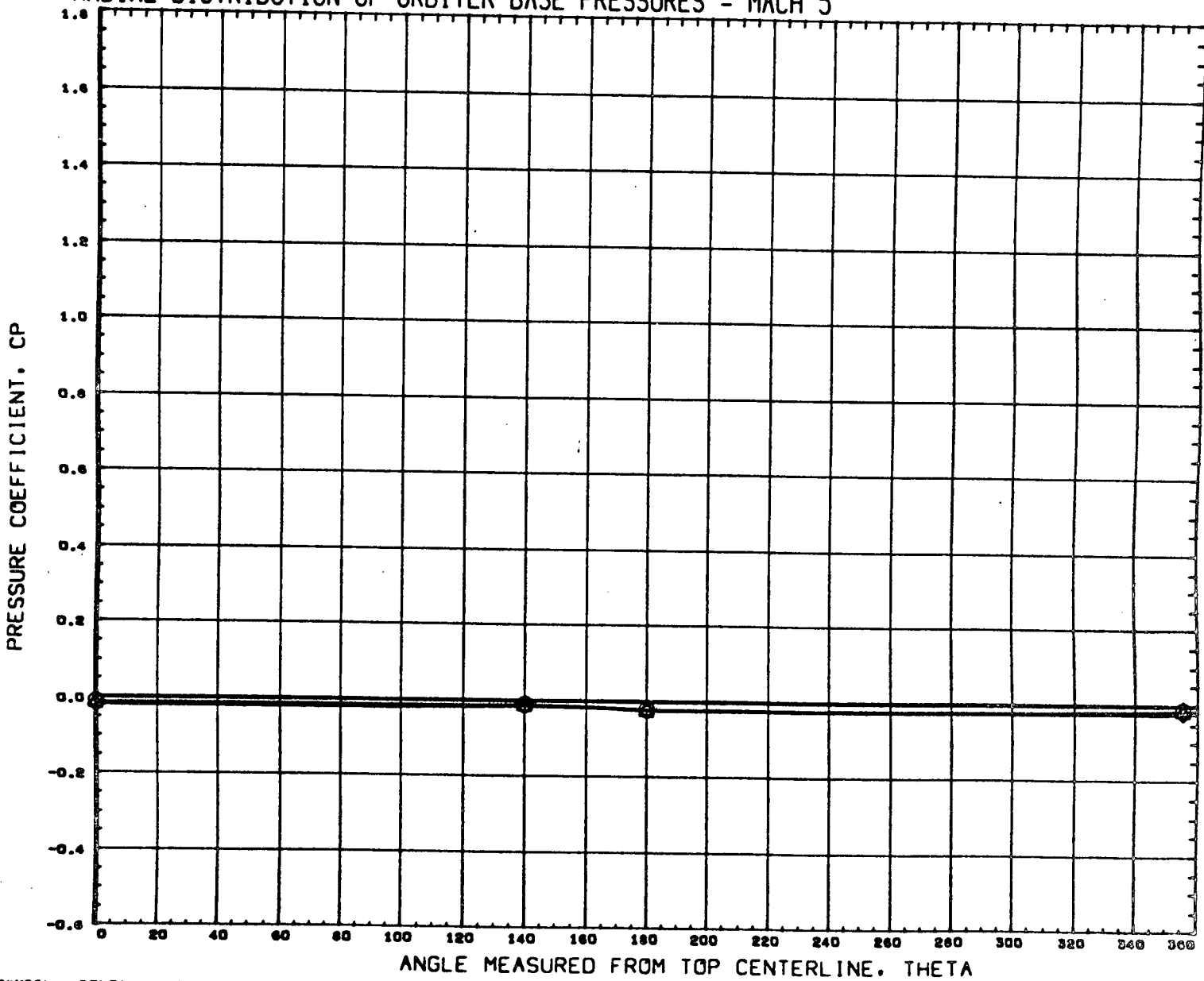
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	5.012	MACH	4.940
ALPHA1	0.000	ORBPOW	90.000
887POW	100.000		

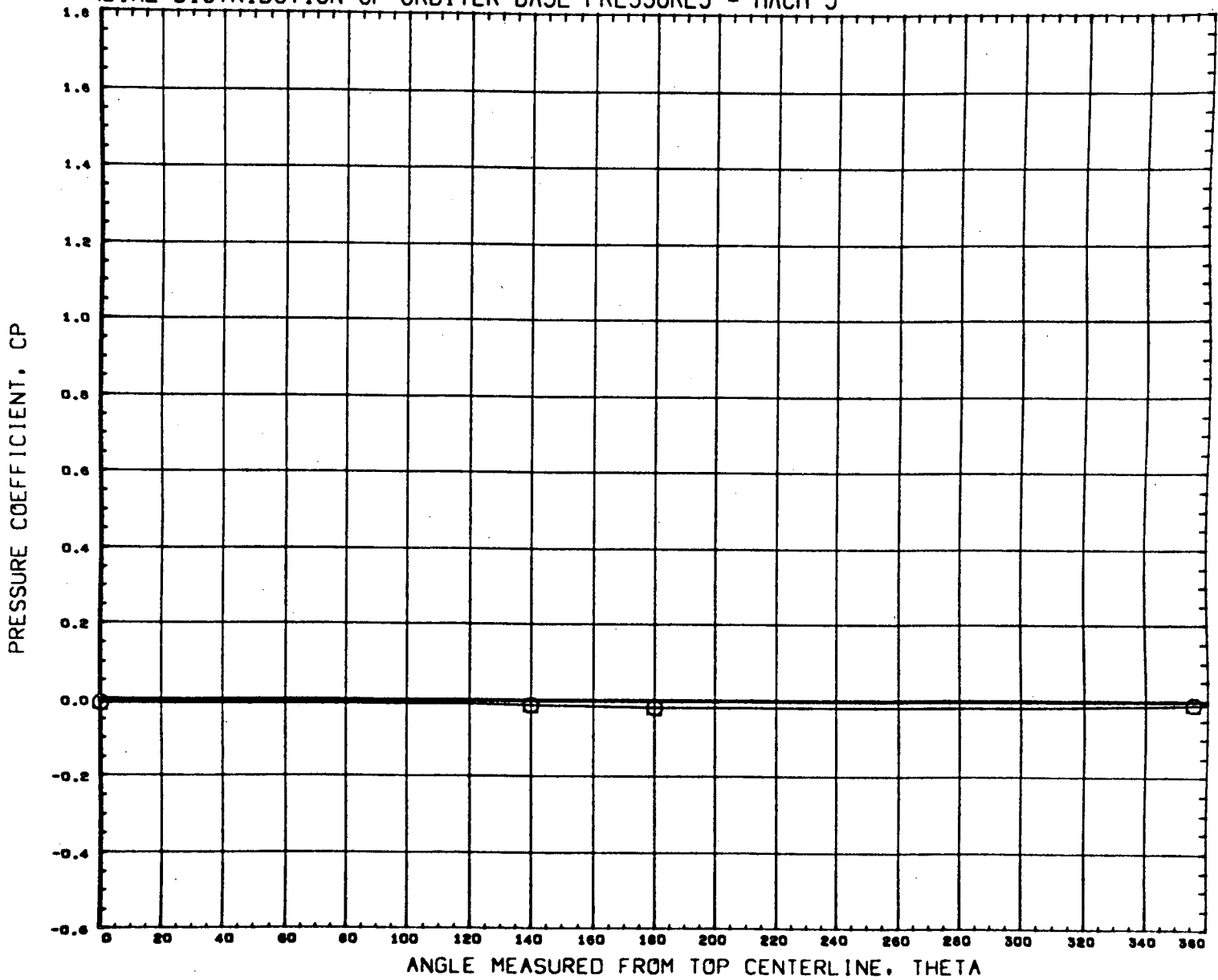
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AEDC VA1163 MDAC ORBITER (BASE)

•IT8524•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.320	1.000	0.908

PARAMETRIC VALUES			
ALPHAB	5.012	MACH	4.940
ALPHA I	0.000	ORBPOW	90.000
BSTPOW	100.000		

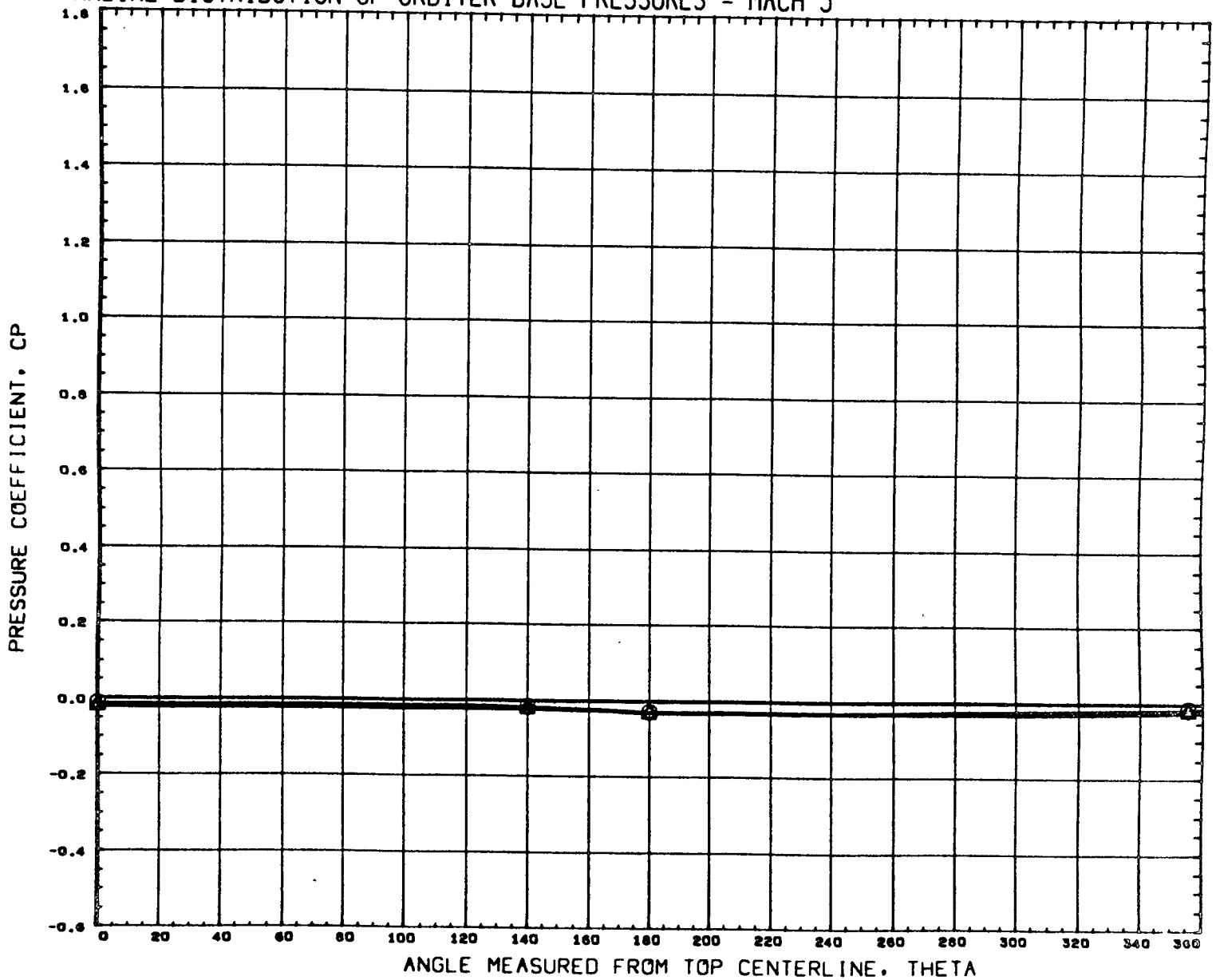
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.165		

PARAMETRIC VALUES			
ALPHAB	10.042	MACH	4.940
ALPHA1	0.000	ORBPOW	50.000
BSTPOW	100.000		

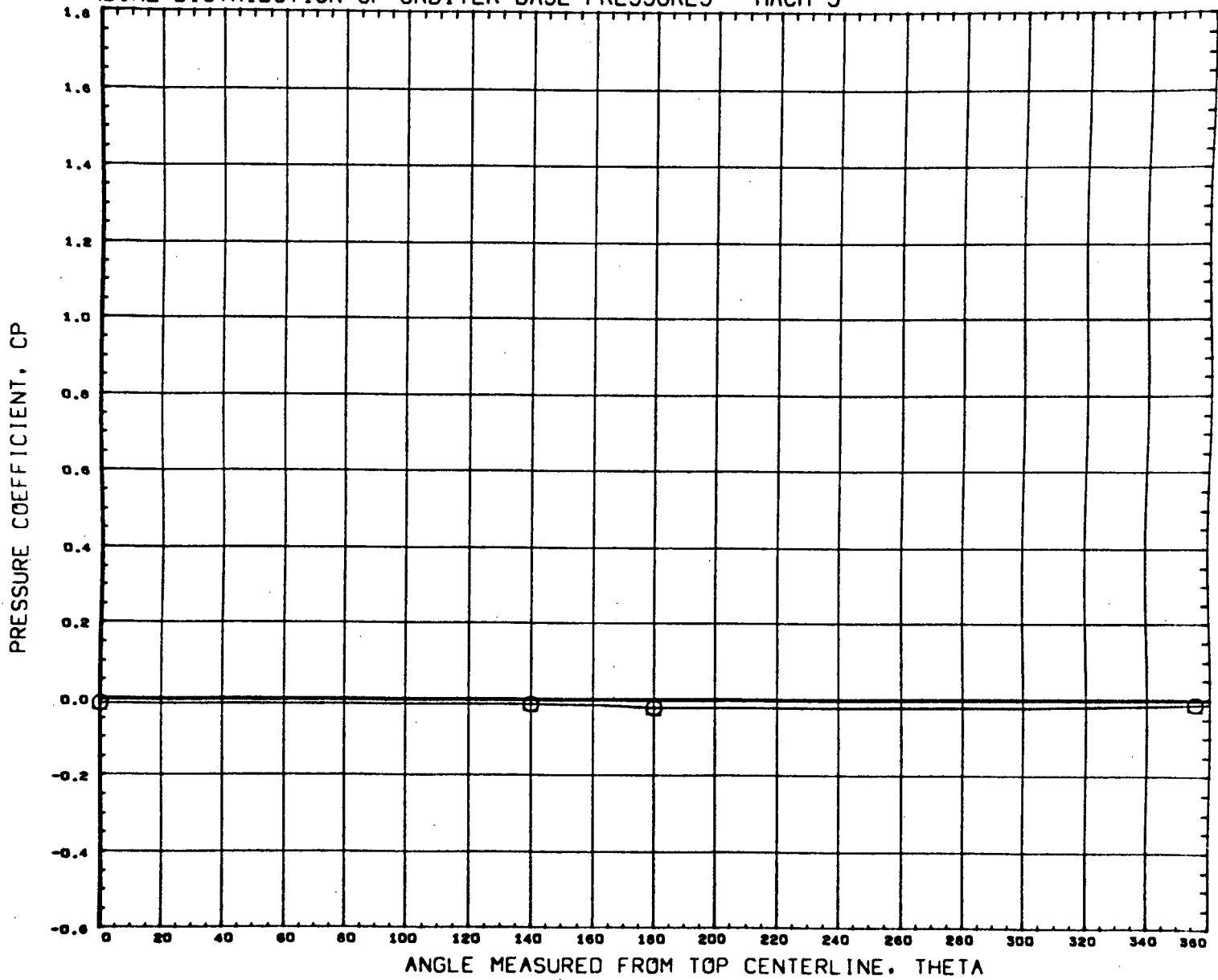
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AEDC VA1163 MOAC ORBITER (BASE)

•IT8525•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL \circ DELTAX 0.520 X/L 1.000 DELTAZ 0.908

PARAMETRIC VALUES
 ALPHAB 10.042 MACH 4.940
 ALPHA1 0.000 ORBPOW 50.000
 BSTPOW 100.000

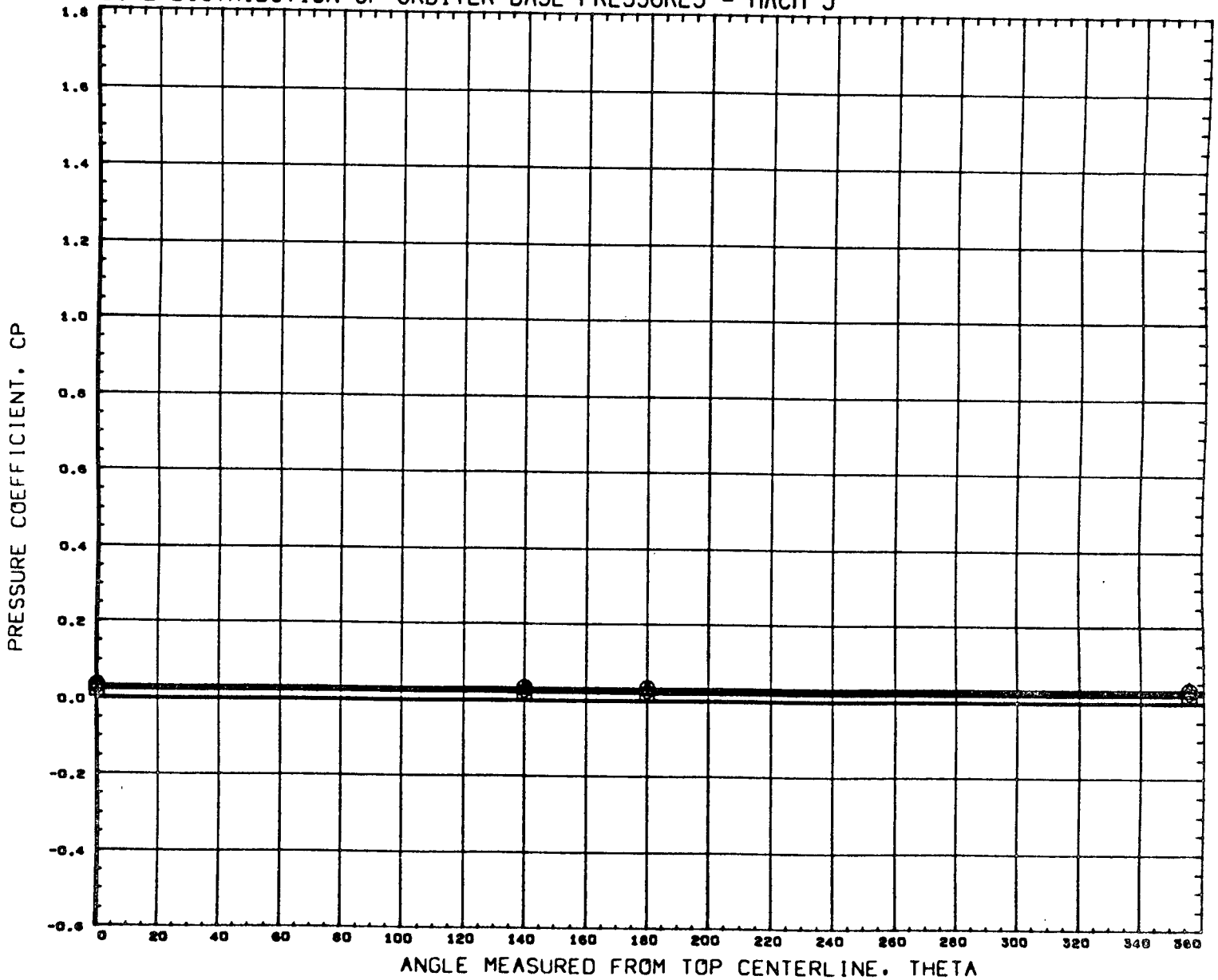
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	9.918	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

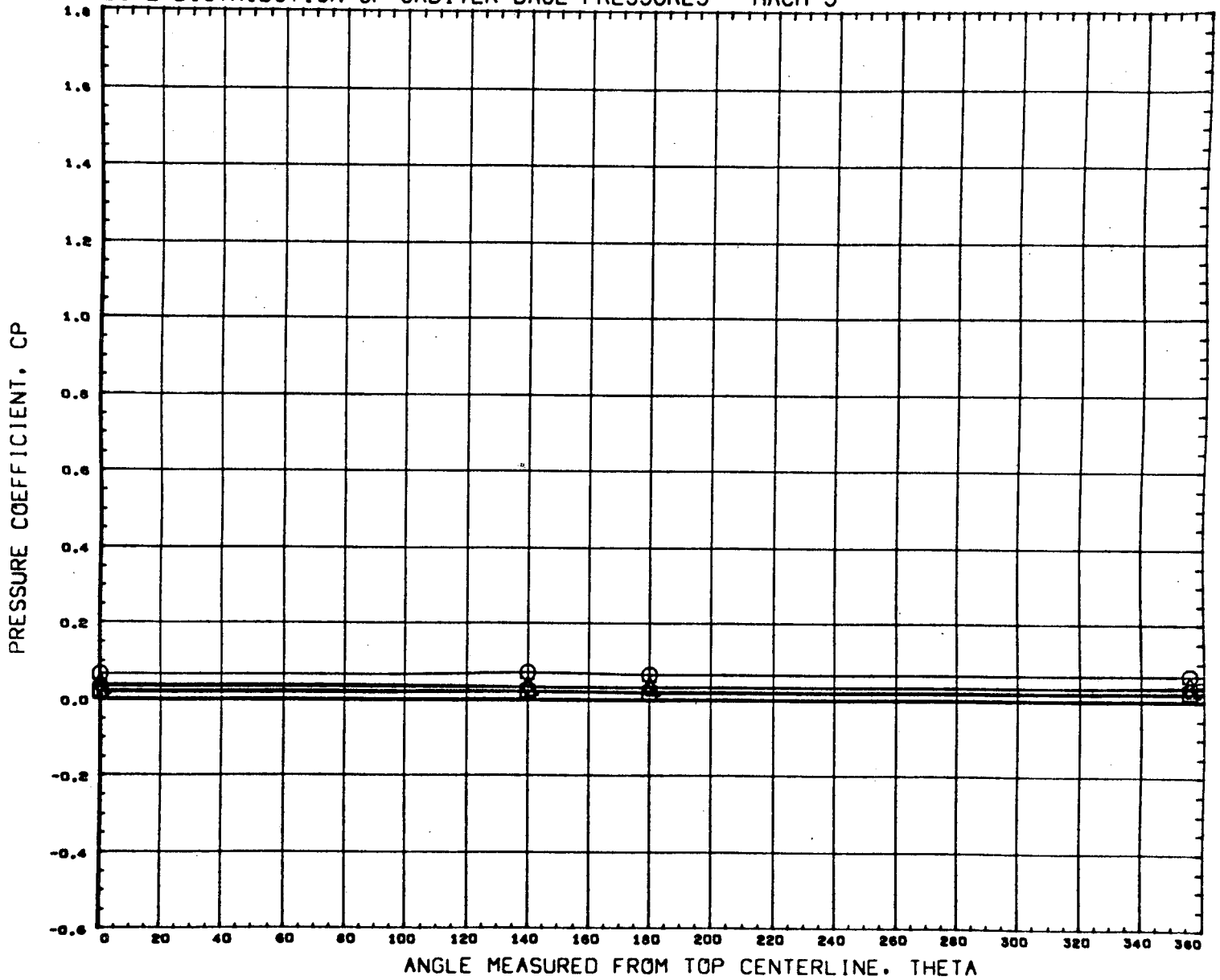
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AEDC VA1163 MDAC ORBITER (BASE)

•1T8531•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

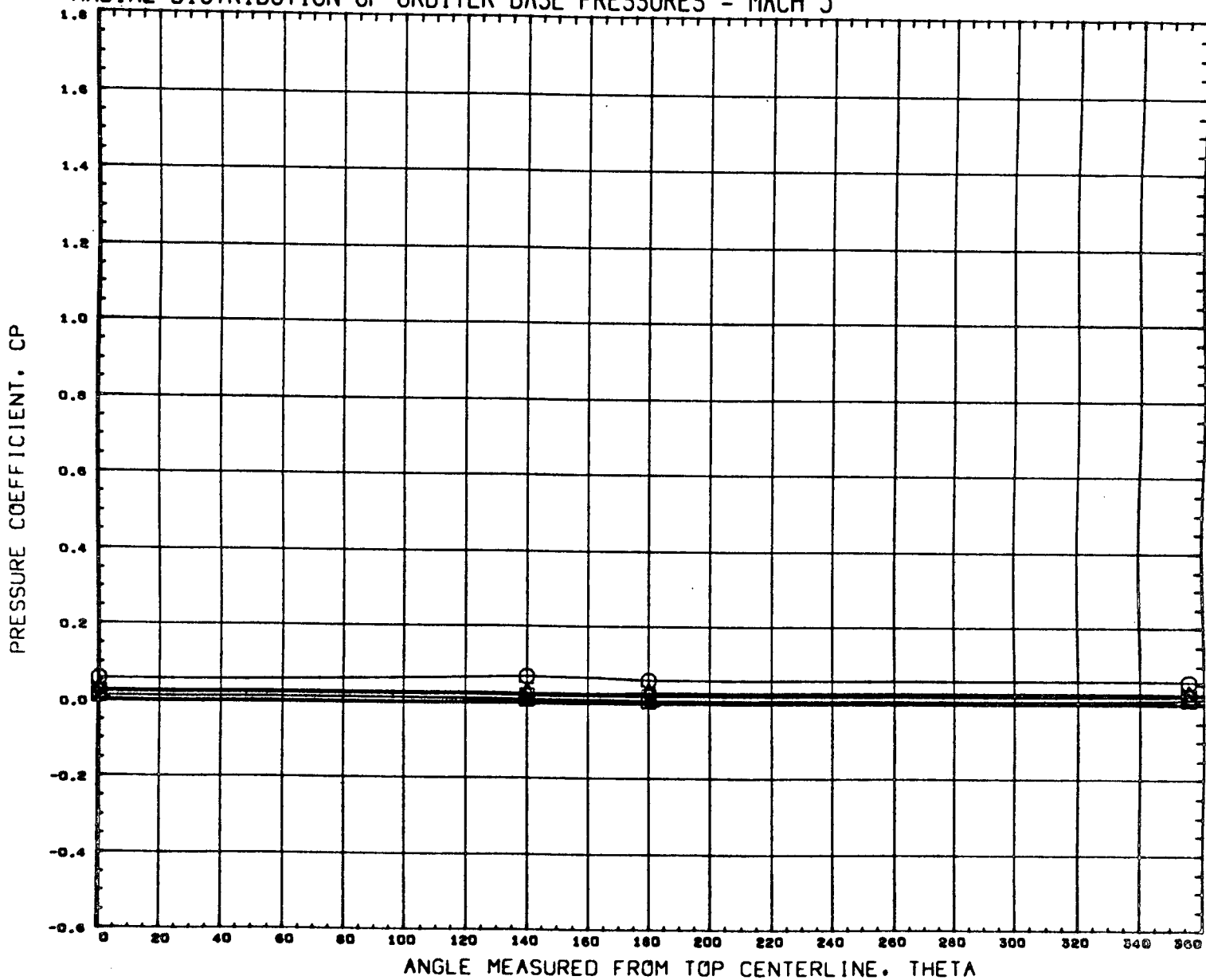


SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.120
◇	0.143		
◊	0.020		
□	0.103		
◇	0.227		
□	0.330		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	9.918	MACH 4.940
ALPHAI	0.000	ORBPOW 100.000
BSTPOW	30.000	

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



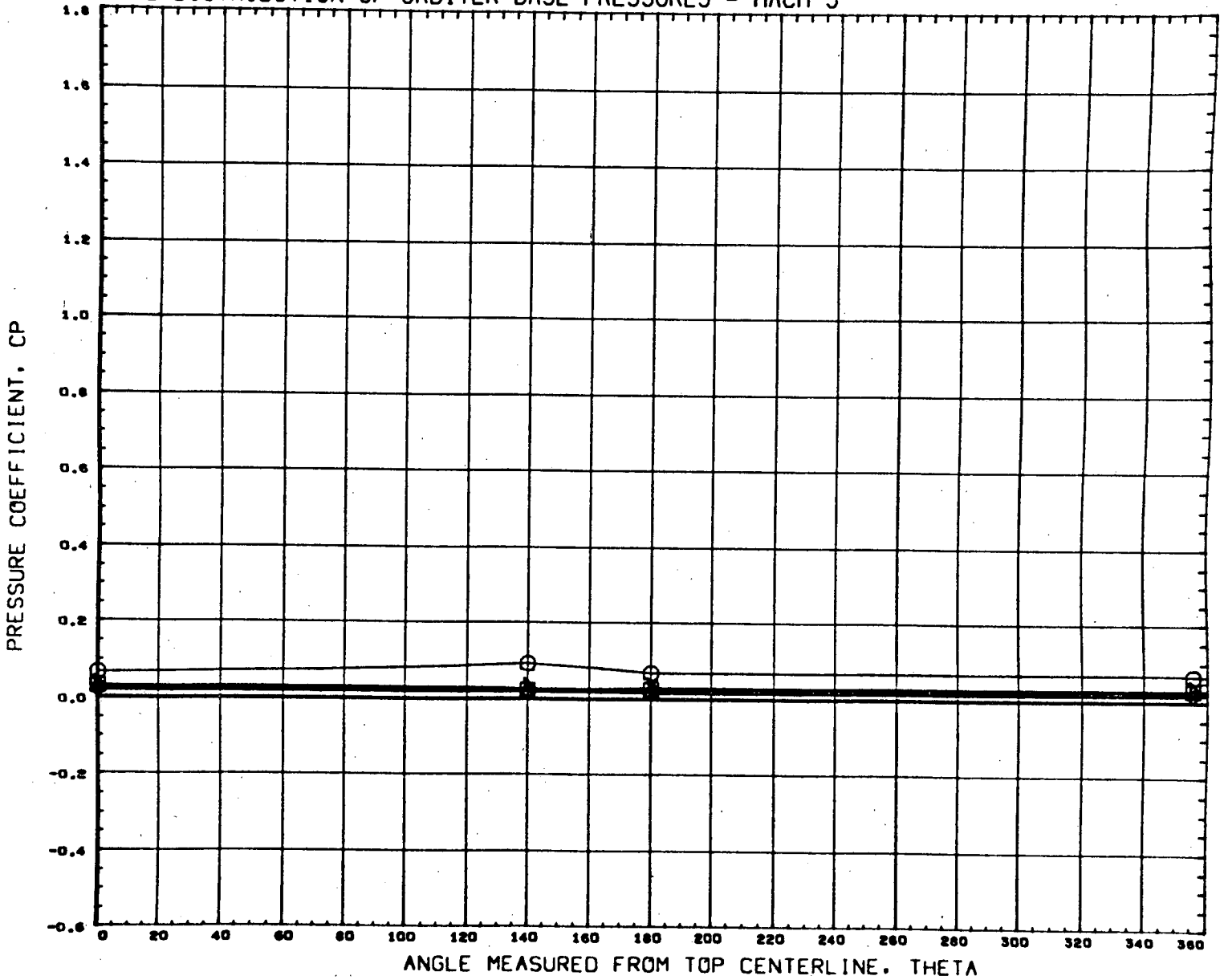
ANGLE MEASURED FROM TOP CENTERLINE, THETA

SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.191
△	0.143		
◇	0.020		
□	0.100		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHA B	9.918	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	90.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

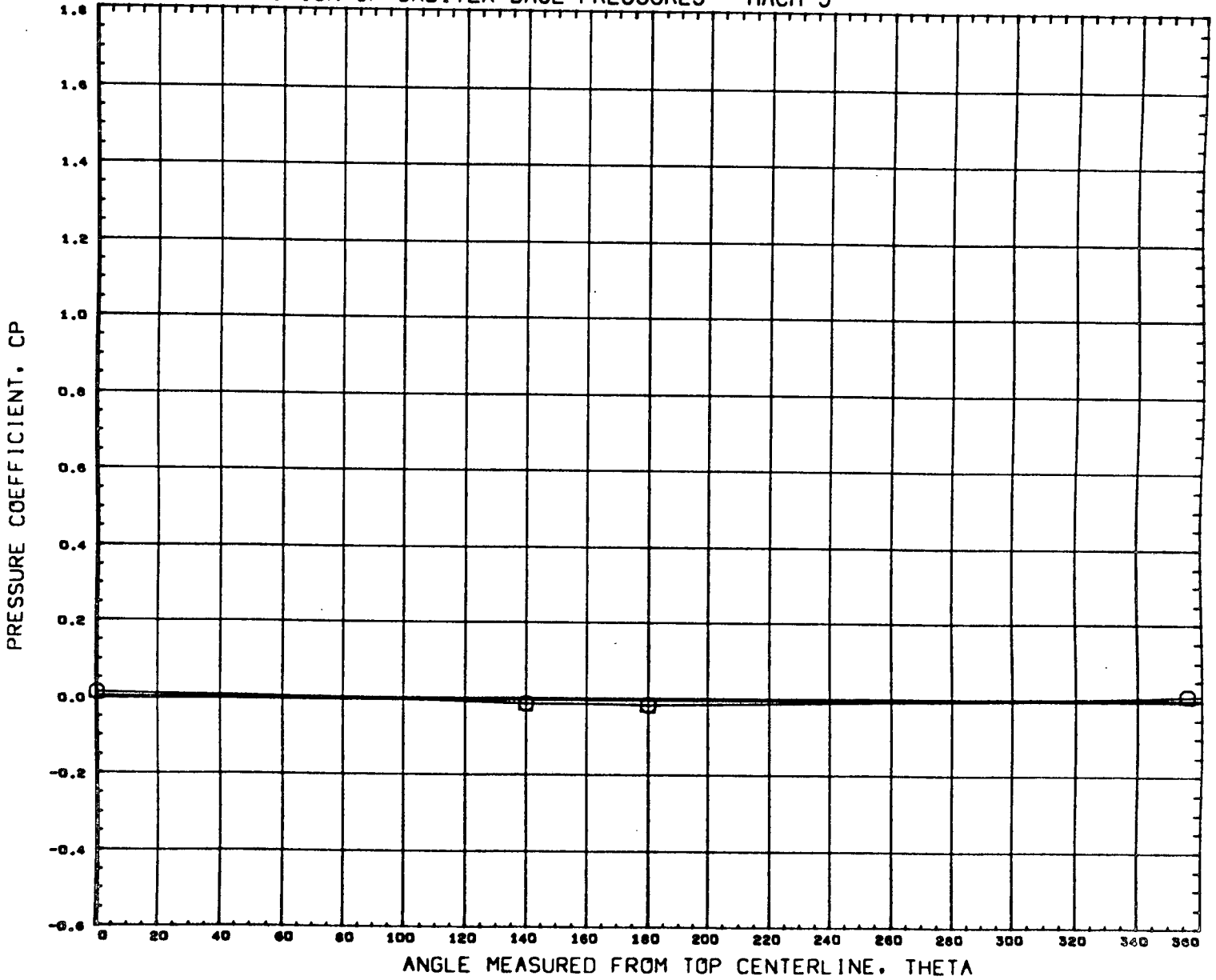


SYMBOL	DELTA X	X/L	DELTA Z
□	0.390	1.000	0.228
◇	0.143		
△	0.020		
○	0.103		
◊	0.227		
◻	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	9.916	MACH	4.940
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

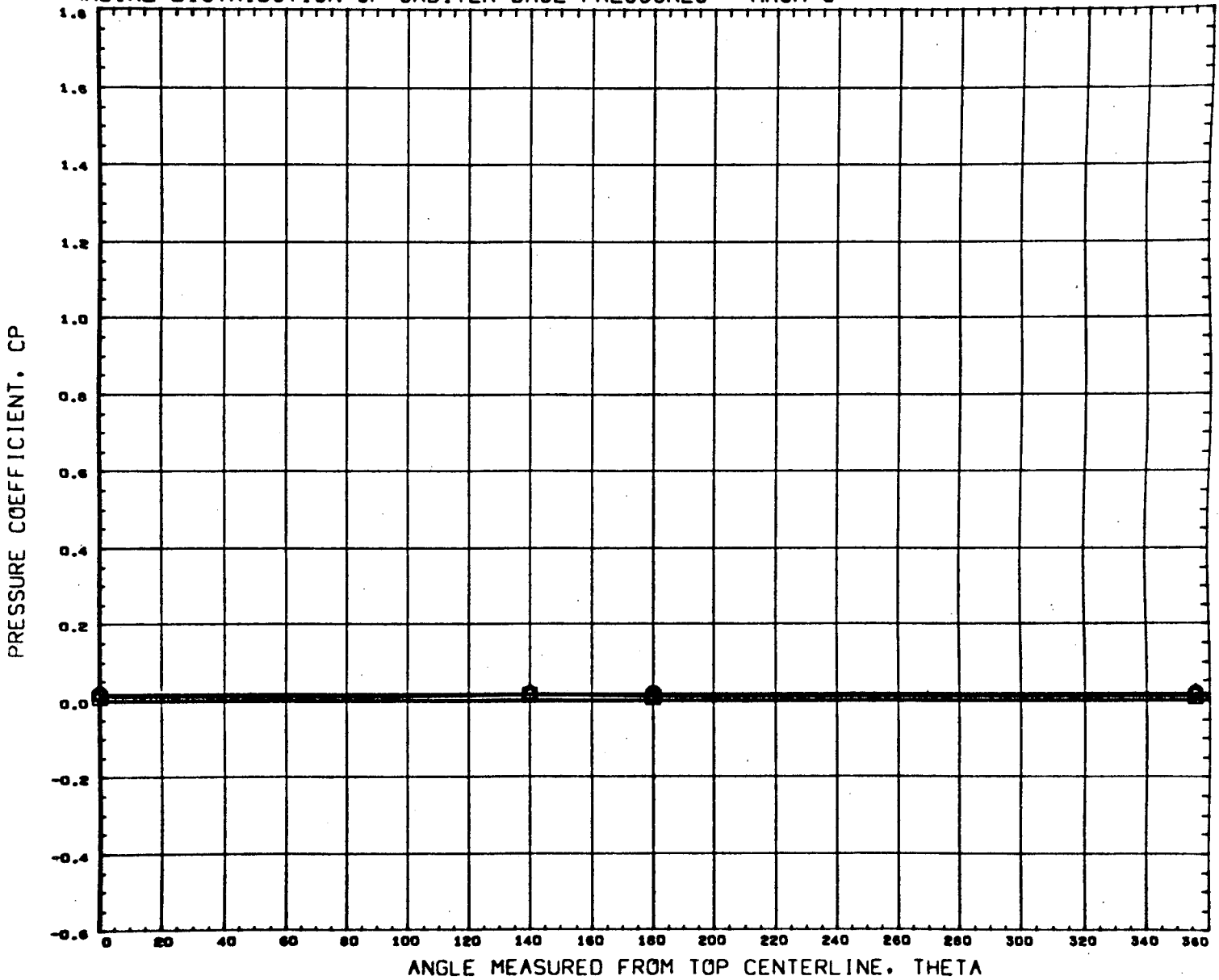


SYMBOL \square DELTAX 0.320 X/L 1.000 DELTAZ 0.908

PARAMETRIC VALUES
 ALPHAB - 9.918 MACH 4.940
 ALPHA1 0.000 ORBPOW 100.000
 BSTPOW 30.000

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	90.000		

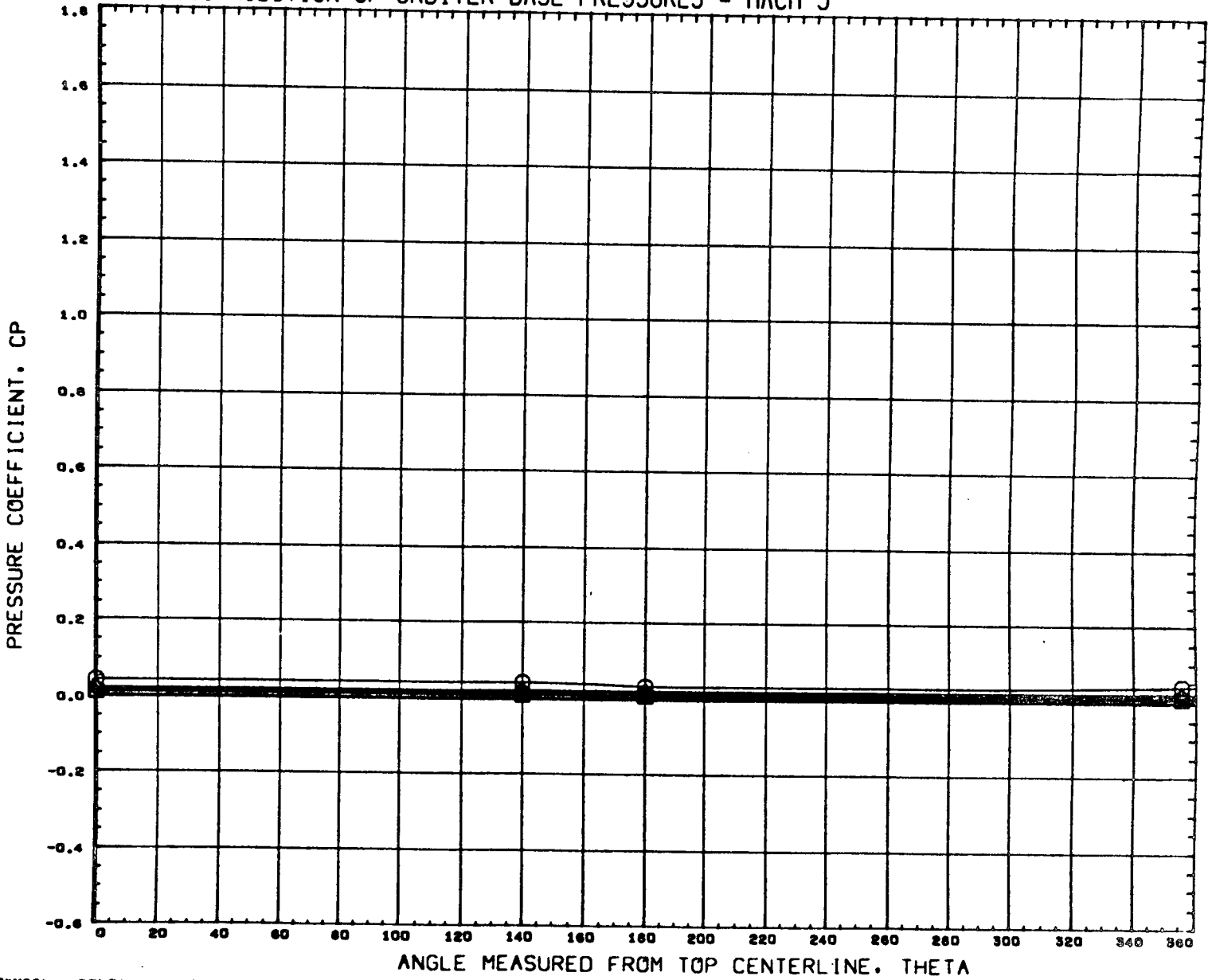
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AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

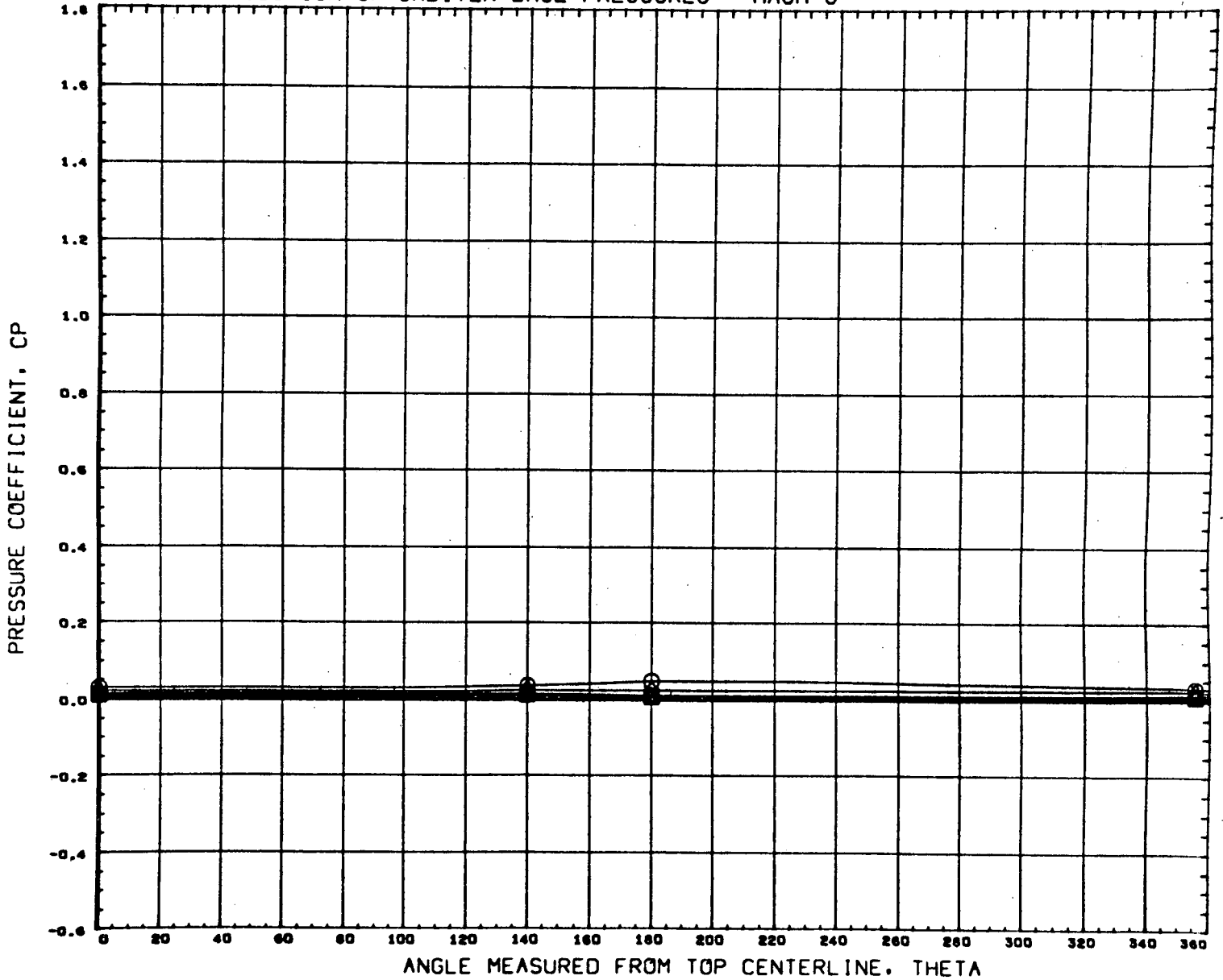


SYMBOL	DELTA X	X/L	DELTA Z
□	0.390	1.000	0.120
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

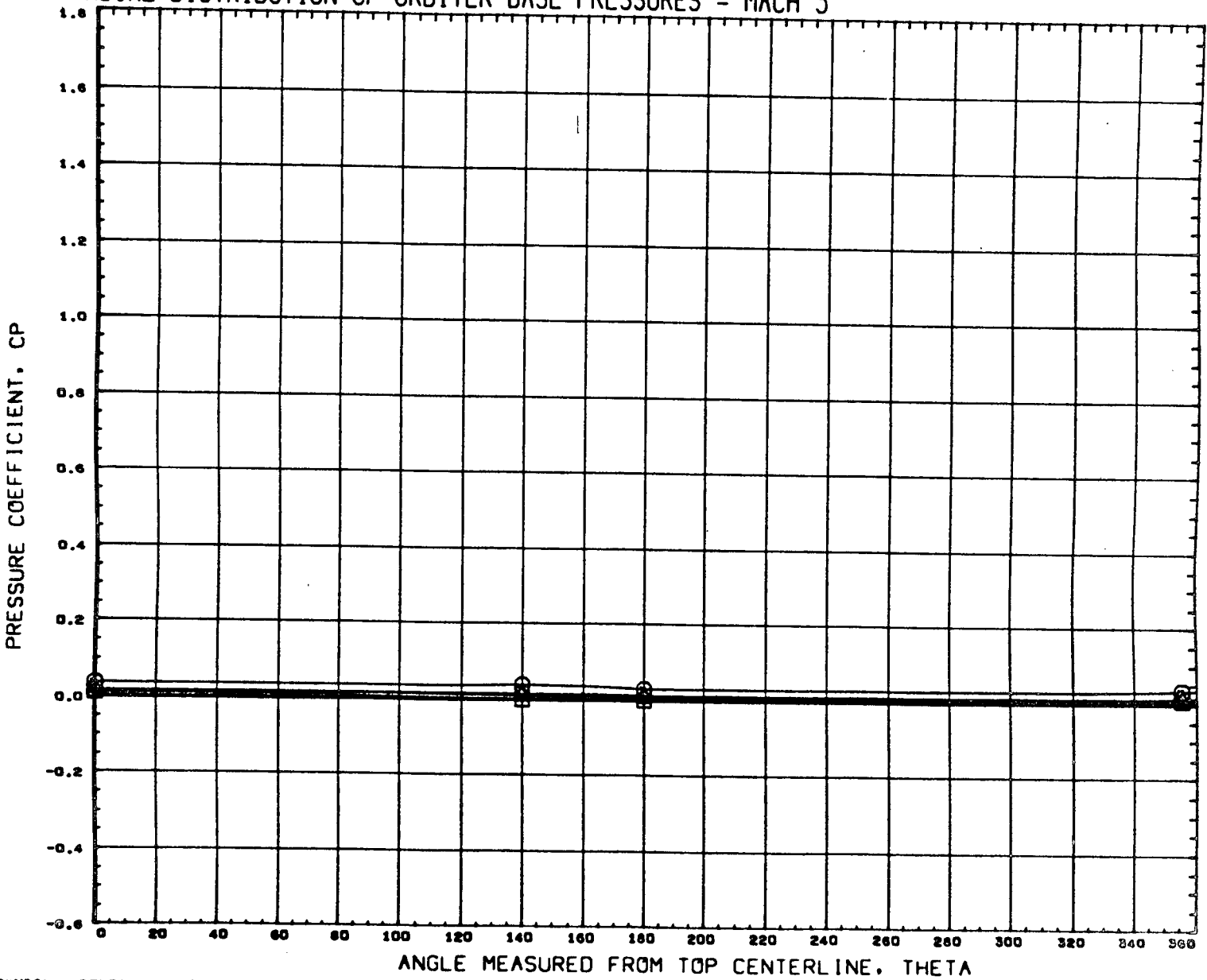
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.151
□	0.143		
◇	0.020		
△	0.103		
	0.227		
	0.350		REFERENCE FILE

PARAMETRIC VALUES			
ALPHA B	- 5.090	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

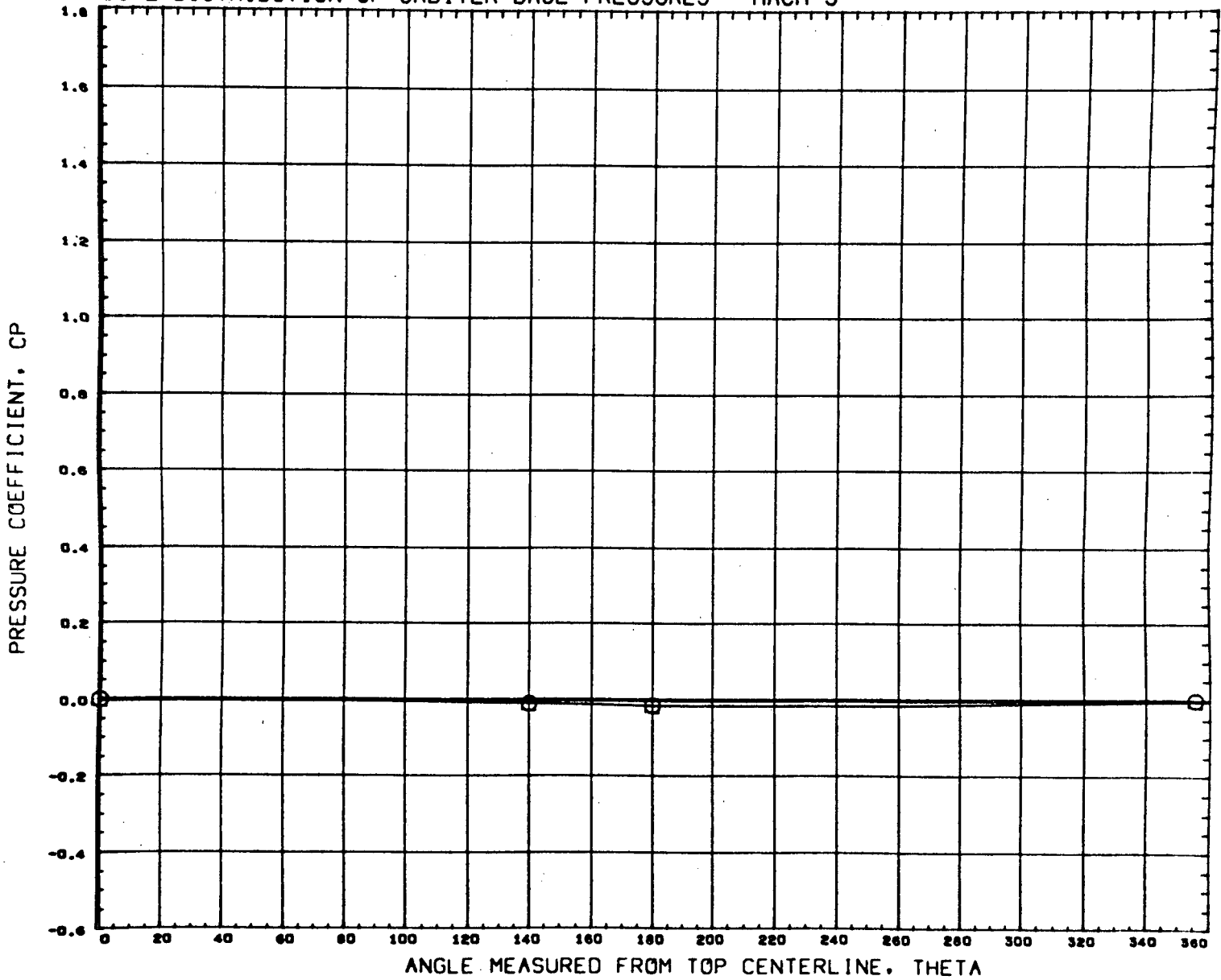
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.228
△	0.143		
◇	0.020		
◻	0.100		
◻	0.227		
◻	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	5.000	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.520	1.000	0.908

PARAMETRIC VALUES			
ALPHAB	- 5.090	MACH	4.940
ALPHA1	0.000	ORSPOW	100.000
BSTPOW	50.000		

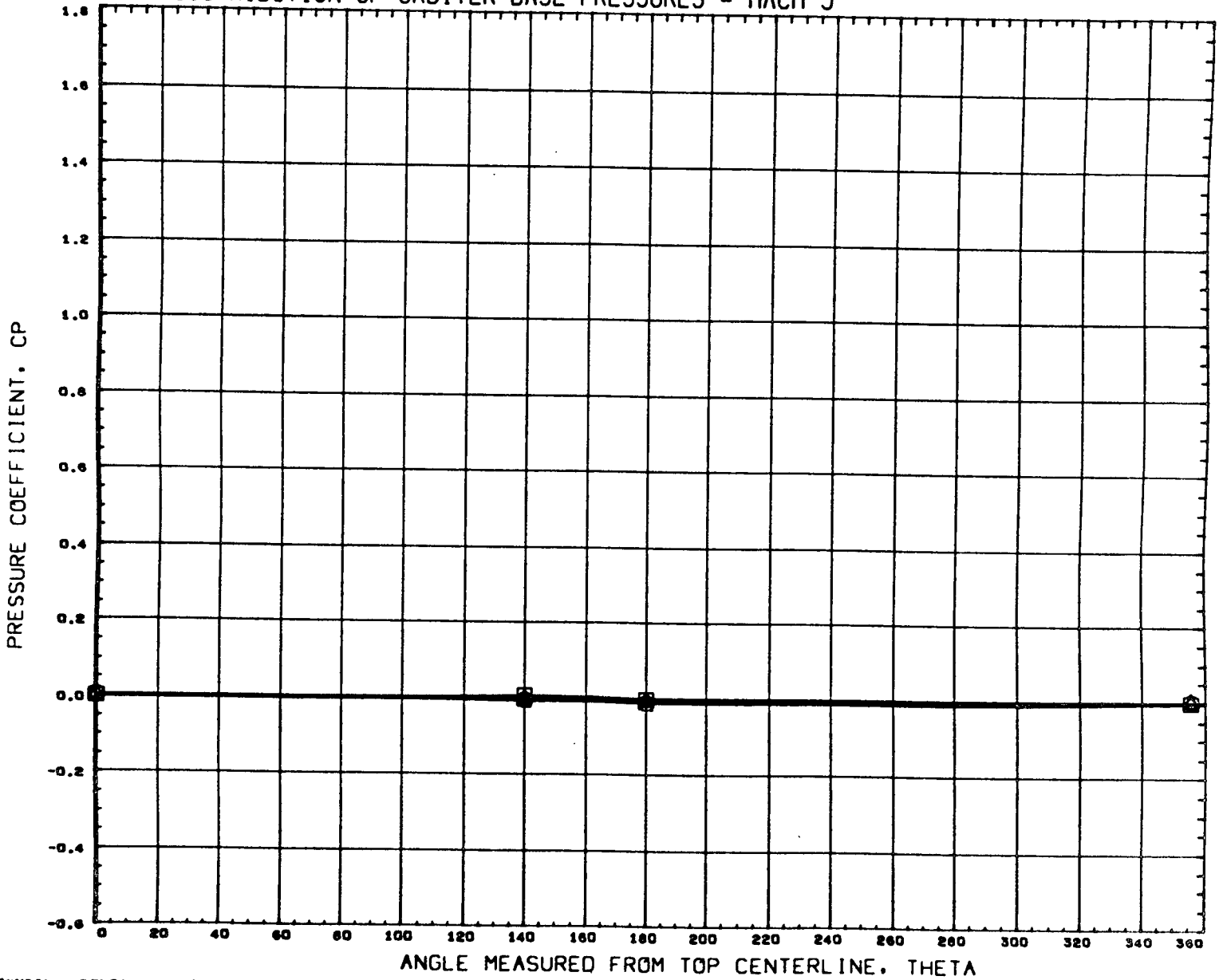
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AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.165		
□	0.350		

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	30.000		

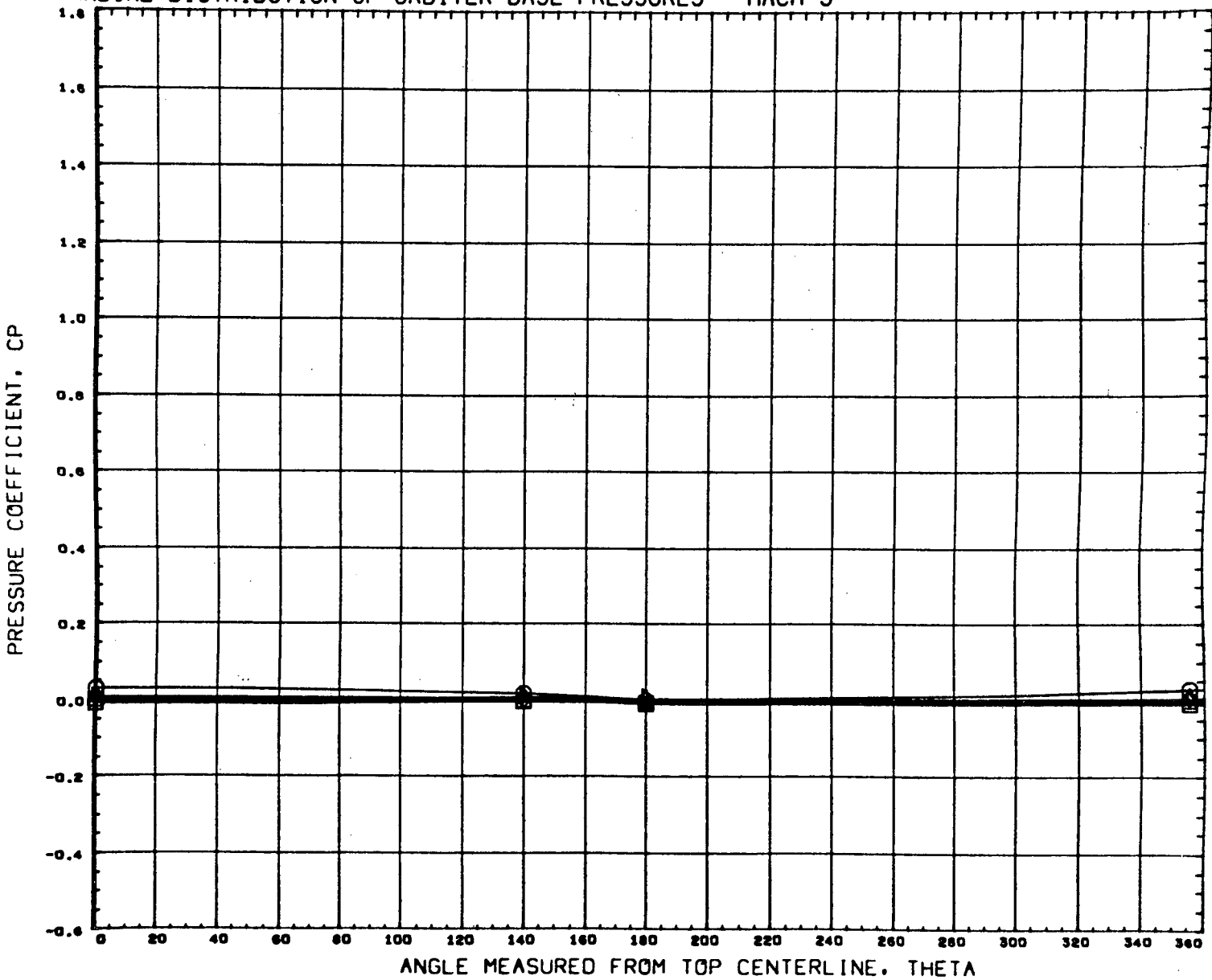
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

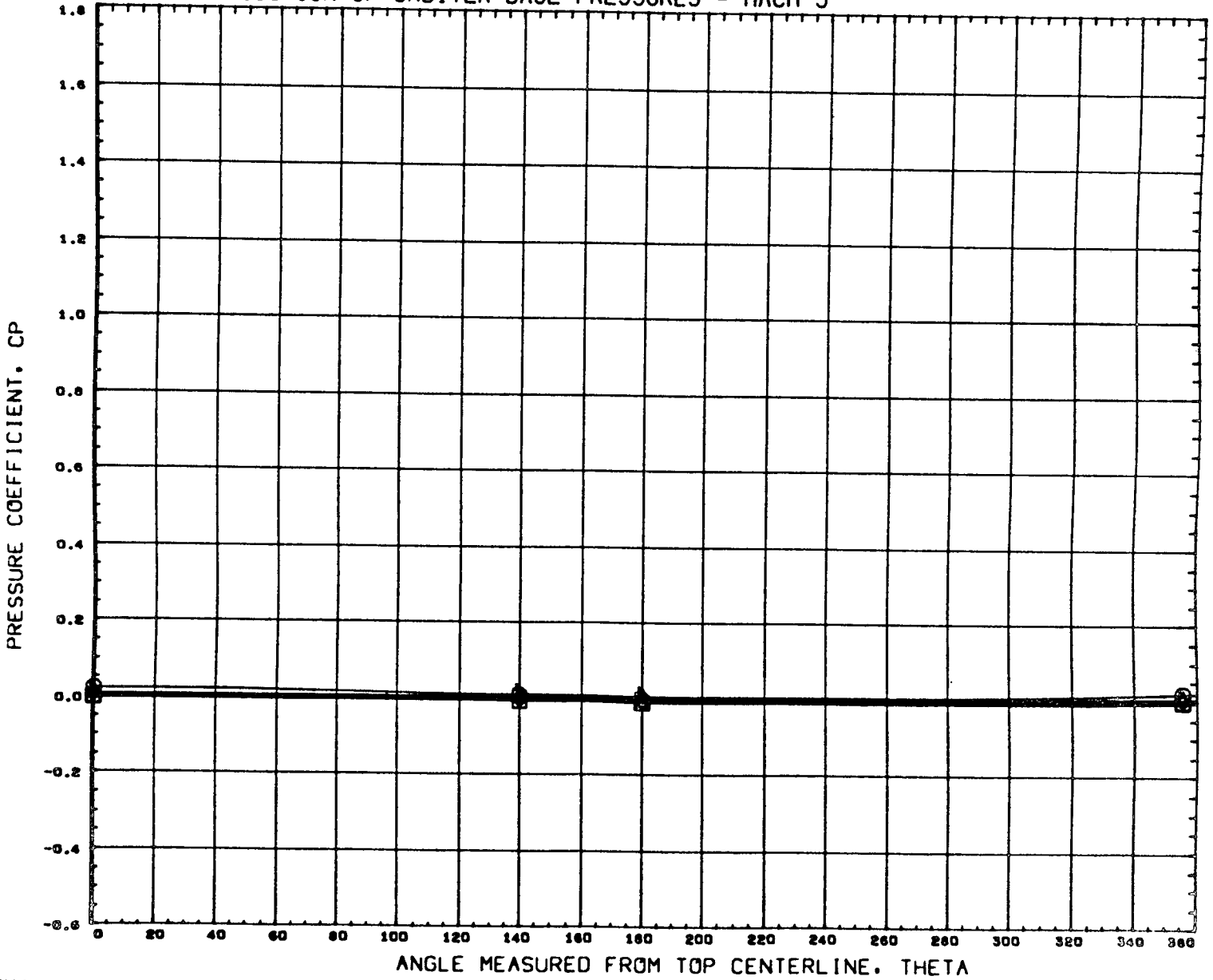


SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.120
◇	0.143		
△	0.020		
□	0.103		
▽	0.227		
◇	0.390		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BS1POW	50.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

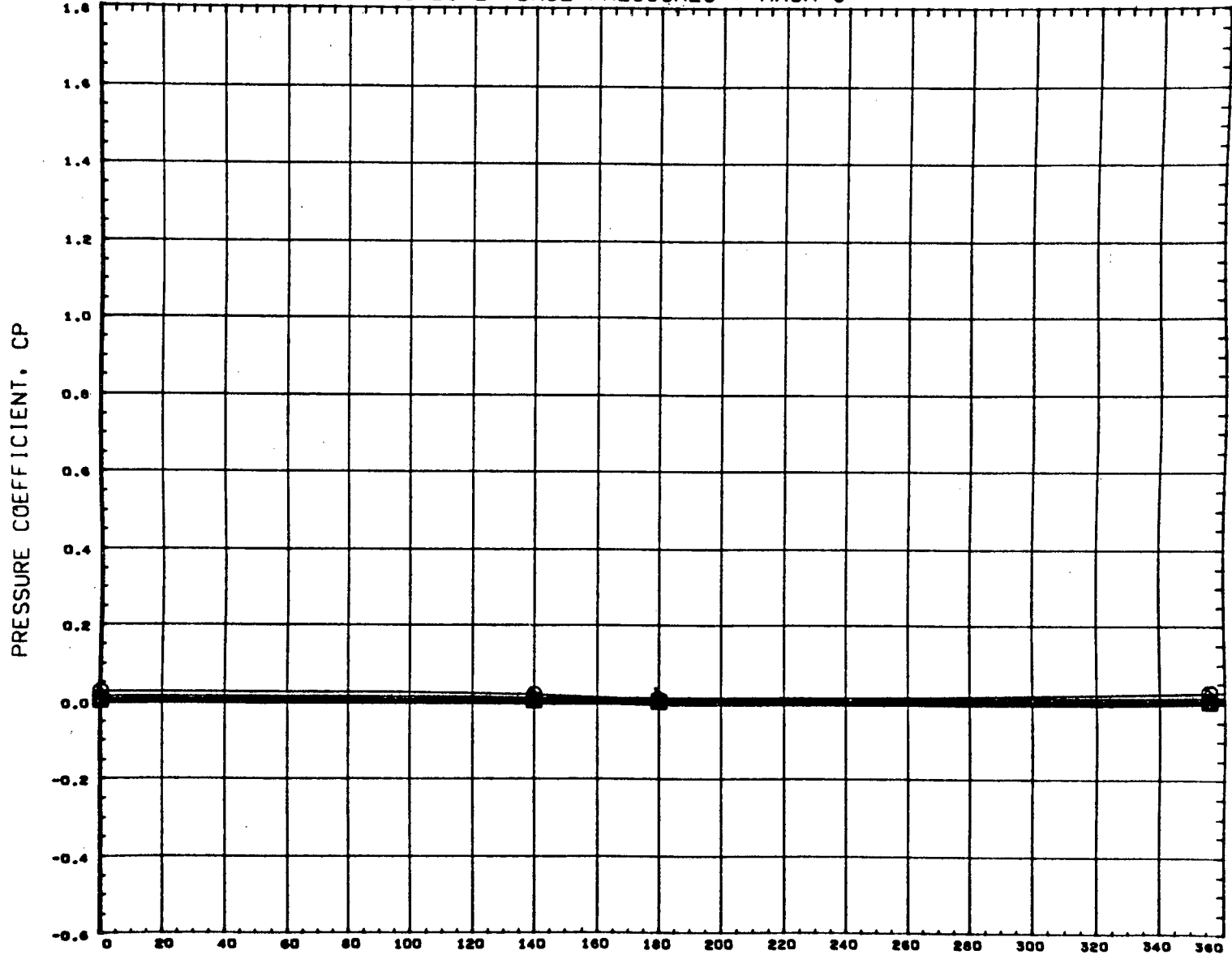


SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.151
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	30.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

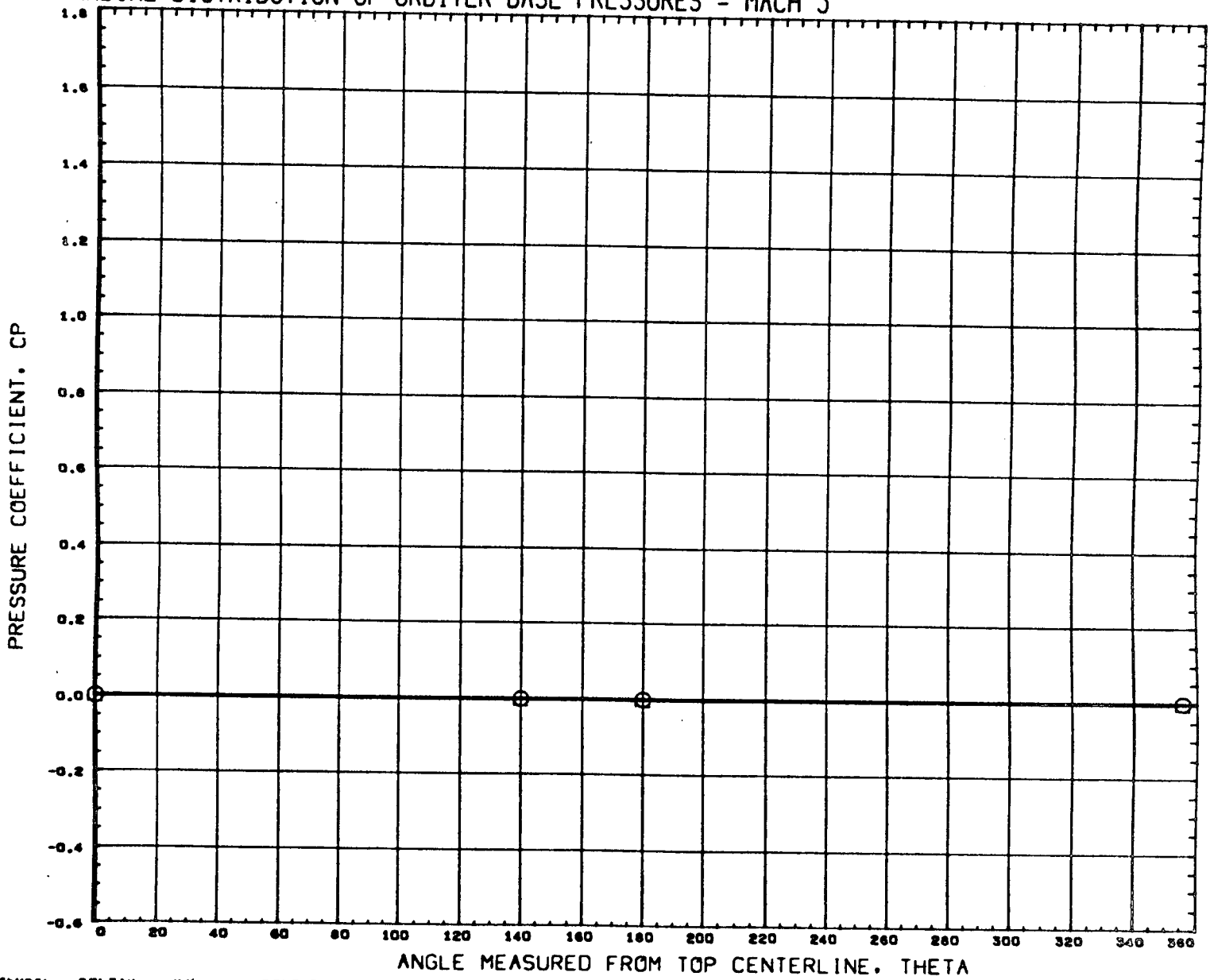


ANGLE MEASURED FROM TOP CENTERLINE, THETA

SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.226
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350	REFERENCE FILE	

PARAMETRIC VALUES			
ALPHAB	0.039	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL: \bigcirc DELTAX: 0.520 X/L: 1.000 DELTAZ: 0.908

PARAMETRIC VALUES
 ALPHAB: 0.039 MACH: 4.940
 ALPHA1: 0.000 ORSPOW: 100.000
 SSTPOW: 50.000

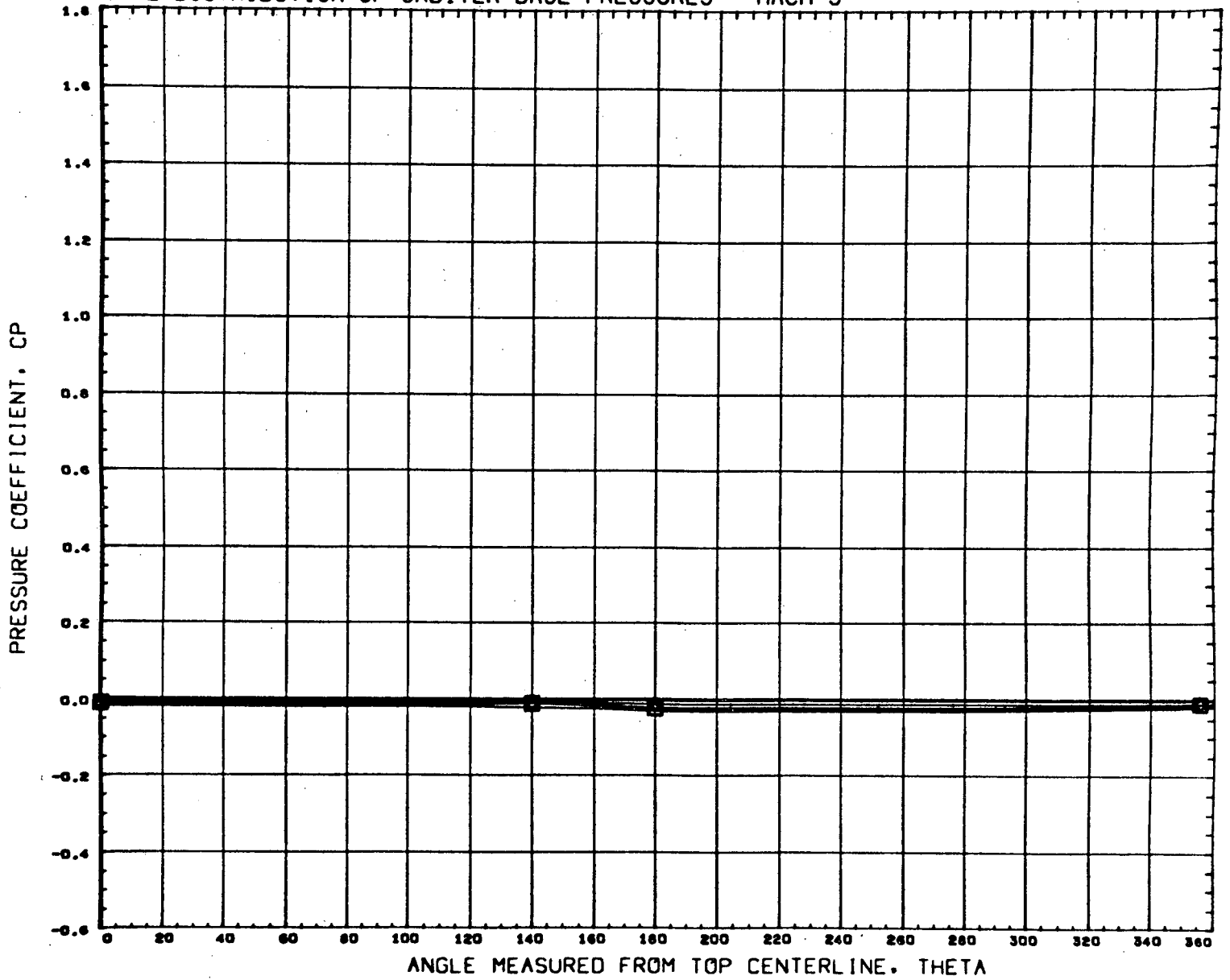
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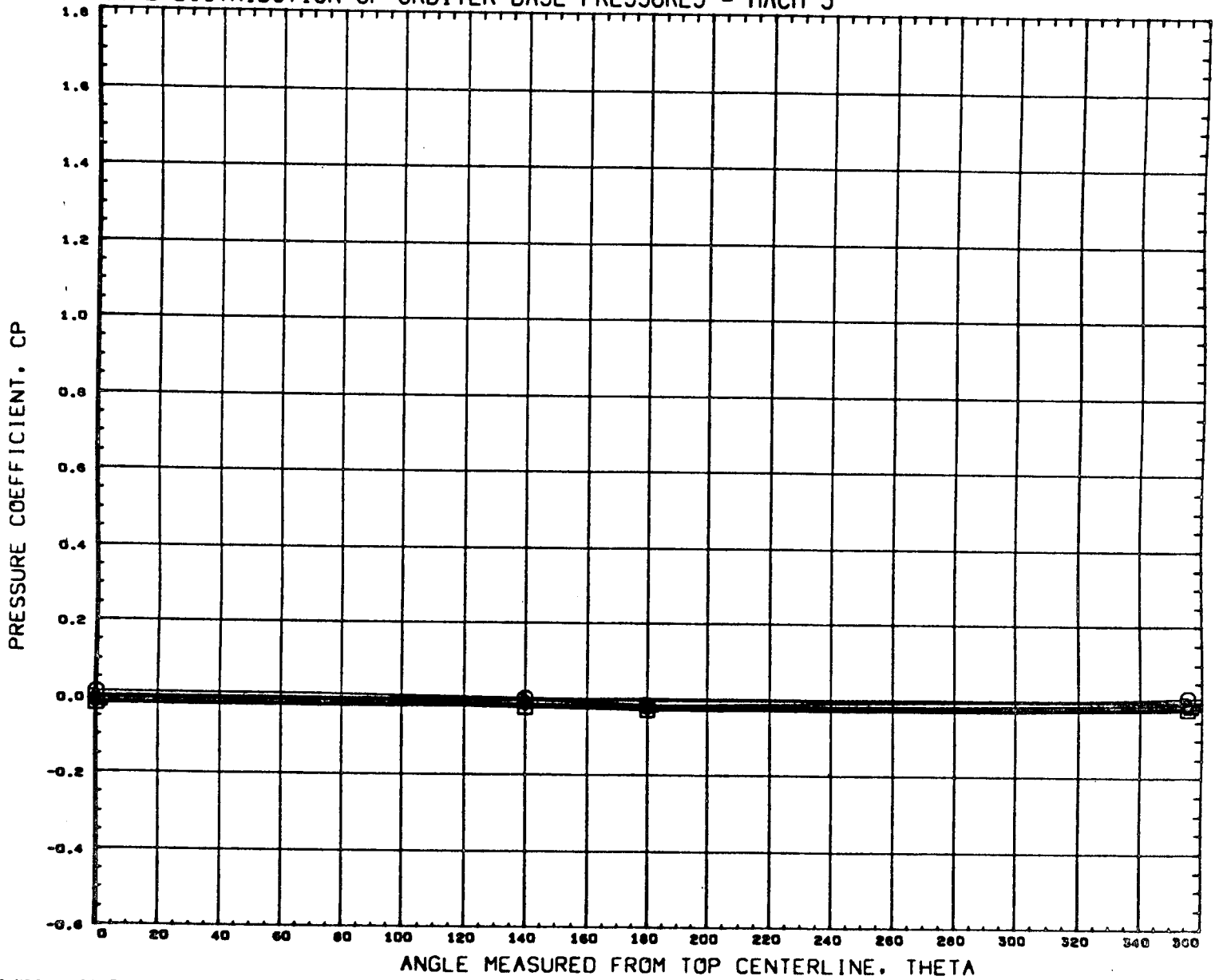
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z	PARAMETRIC VALUES		
○	0.041	1.000	0.114	ALPHAB	5.067	MACH 4.940
△	0.103			ALPHA1	0.000	ORBPOW 100.000
◇	0.165			BSTPOW	30.000	
□	0.330					

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
□	0.390	1.000	0.120
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAS	5.067	MACH 4.940
ALPHA I	0.000	ORBPOW 100.000
BSTPOW	50.000	

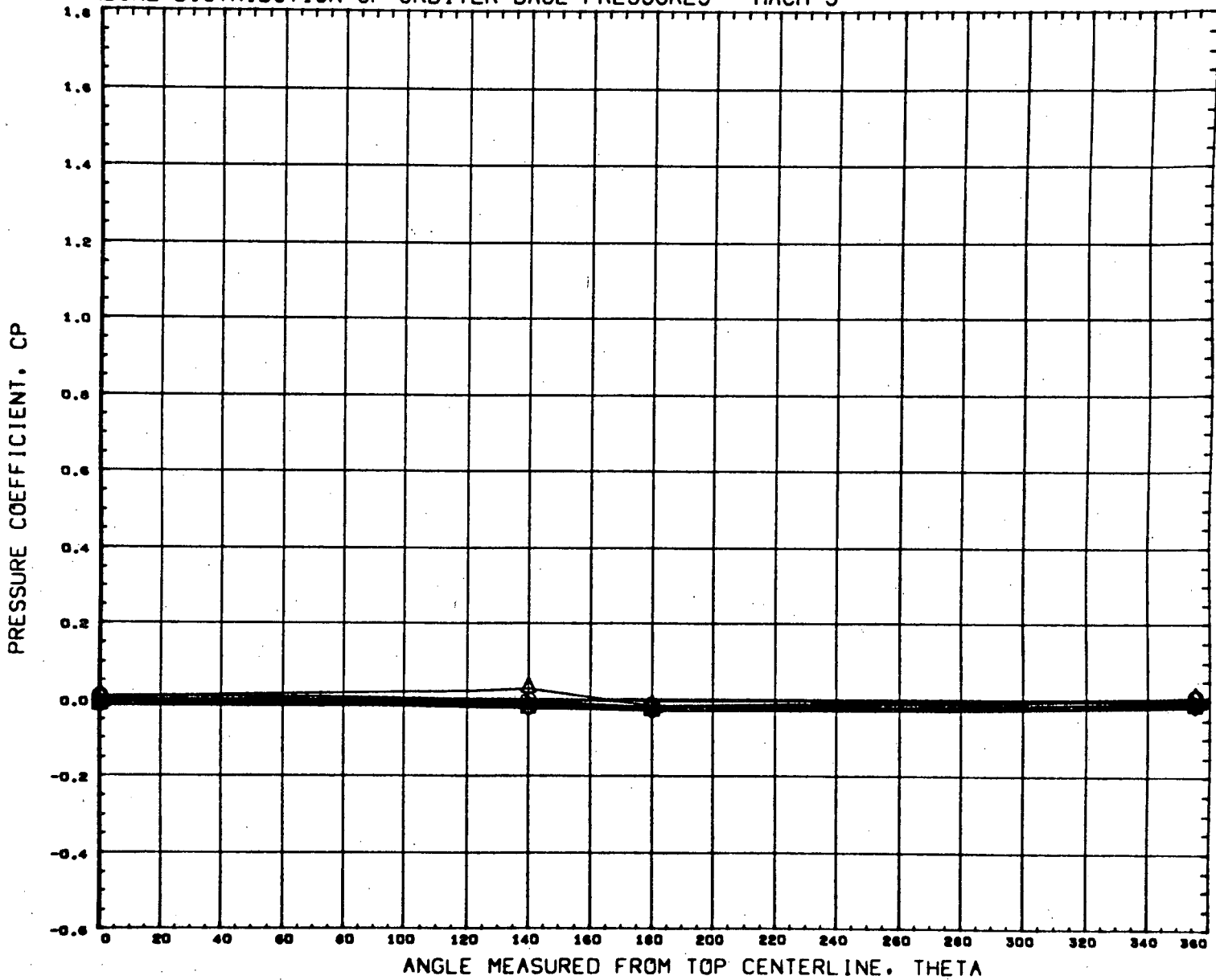
AEDC VA1163 MDAC ORBITER (BASE)

•IT8534•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

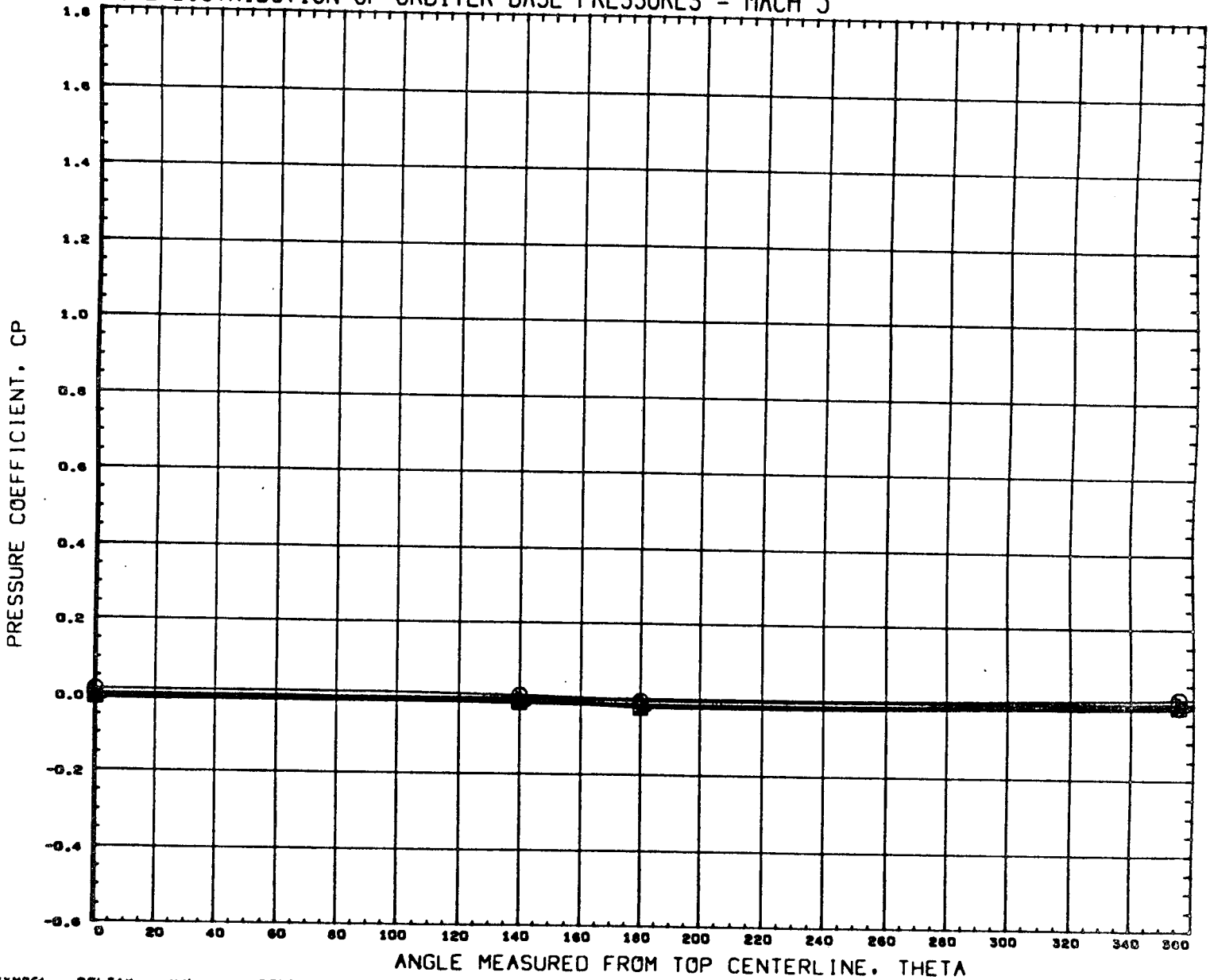


SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.131
△	0.143		
◇	0.020		
□	0.103		
▽	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES		
ALPHAB	5.067	MACH 4.940
ALPHA1	0.000	ORBPOW 100.000
BSTPOW	30.000	

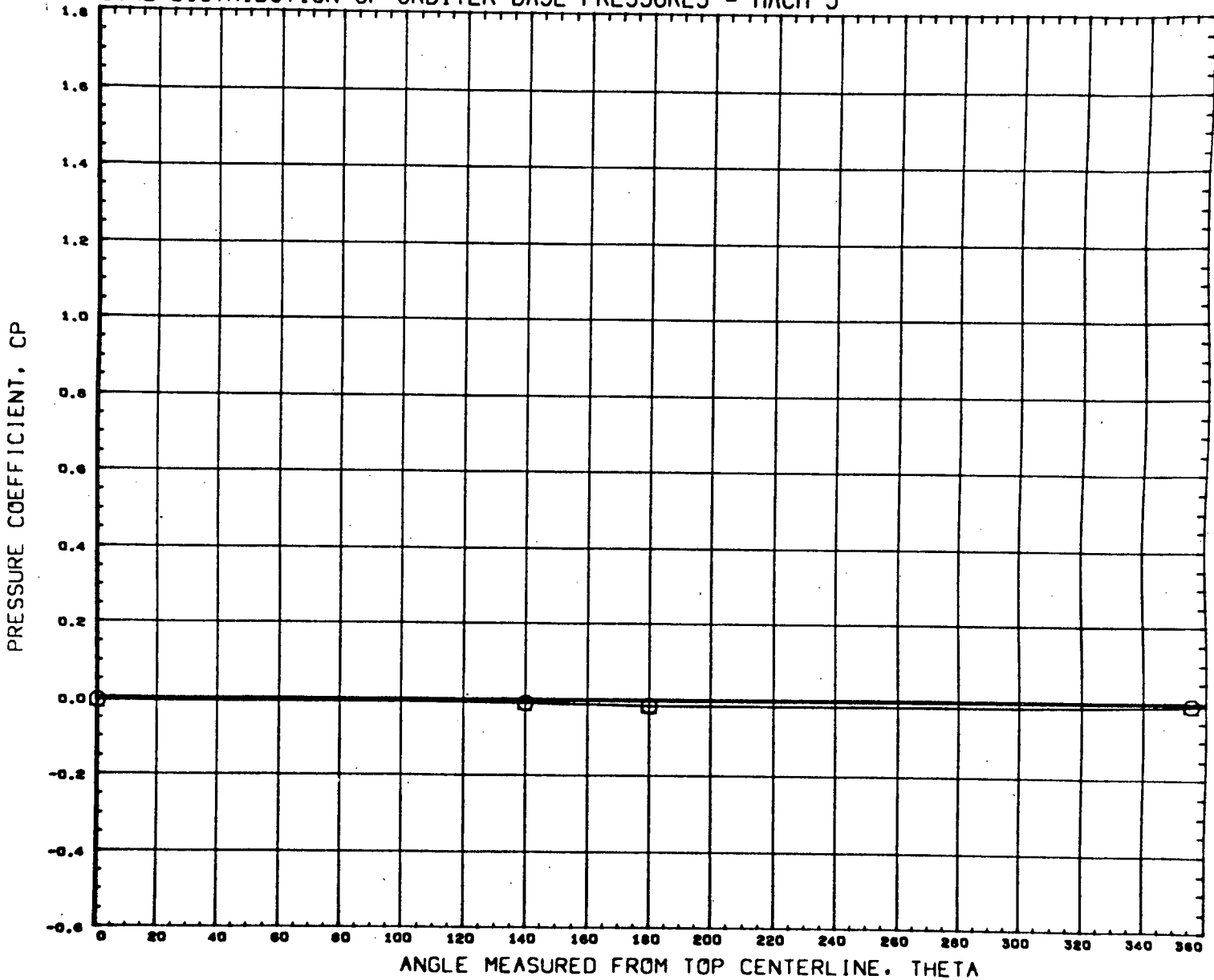
RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.390	1.000	0.228
◇	0.143		
◊	0.020		
◻	0.103		
◼	0.227		
□	0.350		REFERENCE FILE

PARAMETRIC VALUES			
ALPHA8	5.067	MACH	5.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	90.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 ○ 0.920 1.000 0.908

PARAMETRIC VALUES
 ALPHAB 3.067 MACH 4.940
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 50.000

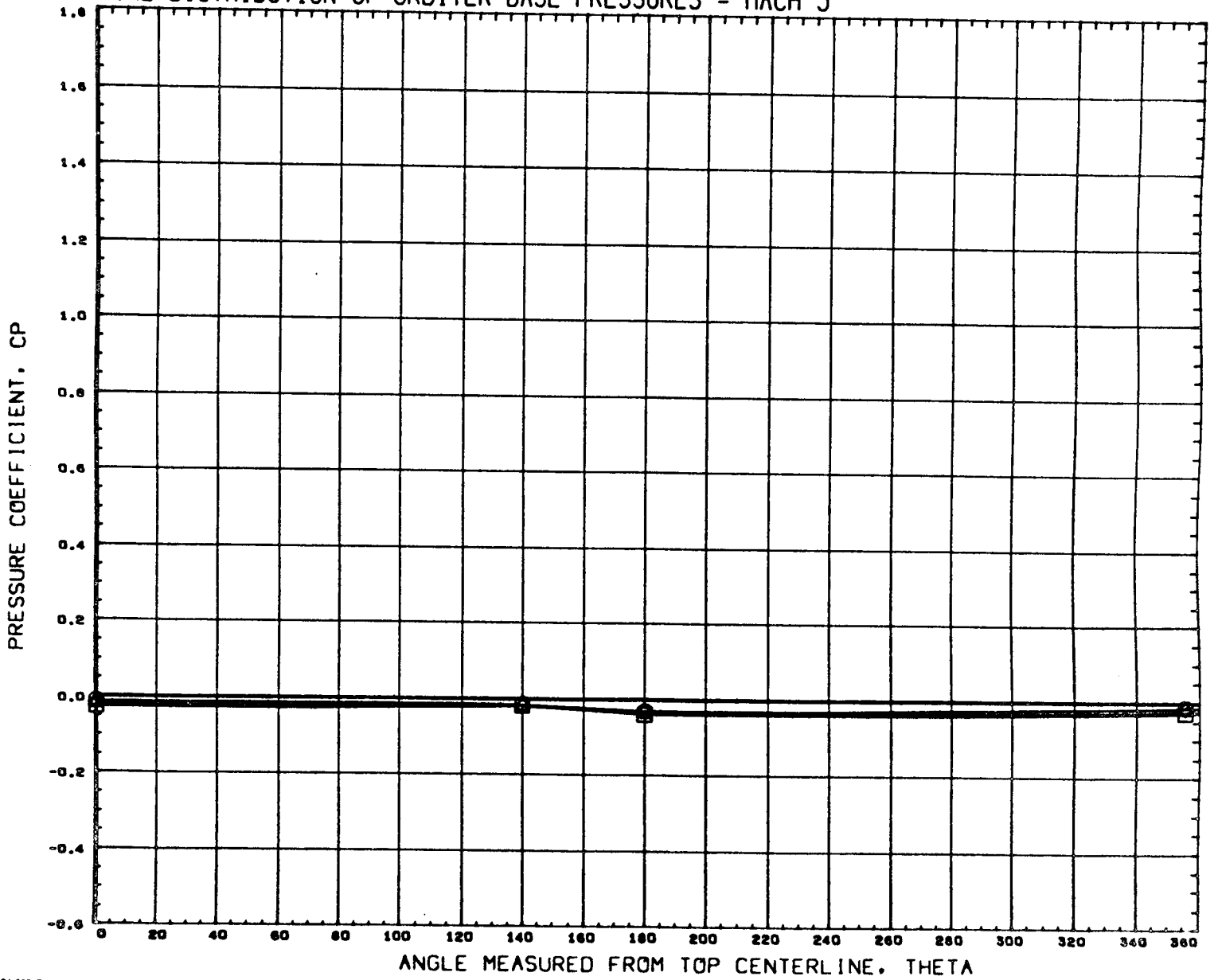
REFERENCE FILE

AEOC VA1163 MDAC ORBITER (BASE)

•IT8534•

PAGE 1047

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.041	1.000	0.114
△	0.103		
◇	0.165		
□	0.330		

PARAMETRIC VALUES			
ALPHA B	10.053	MACH	4.940
ALPHA I	0.000	ORBP/W	100.000
BSTP/W	90.000		

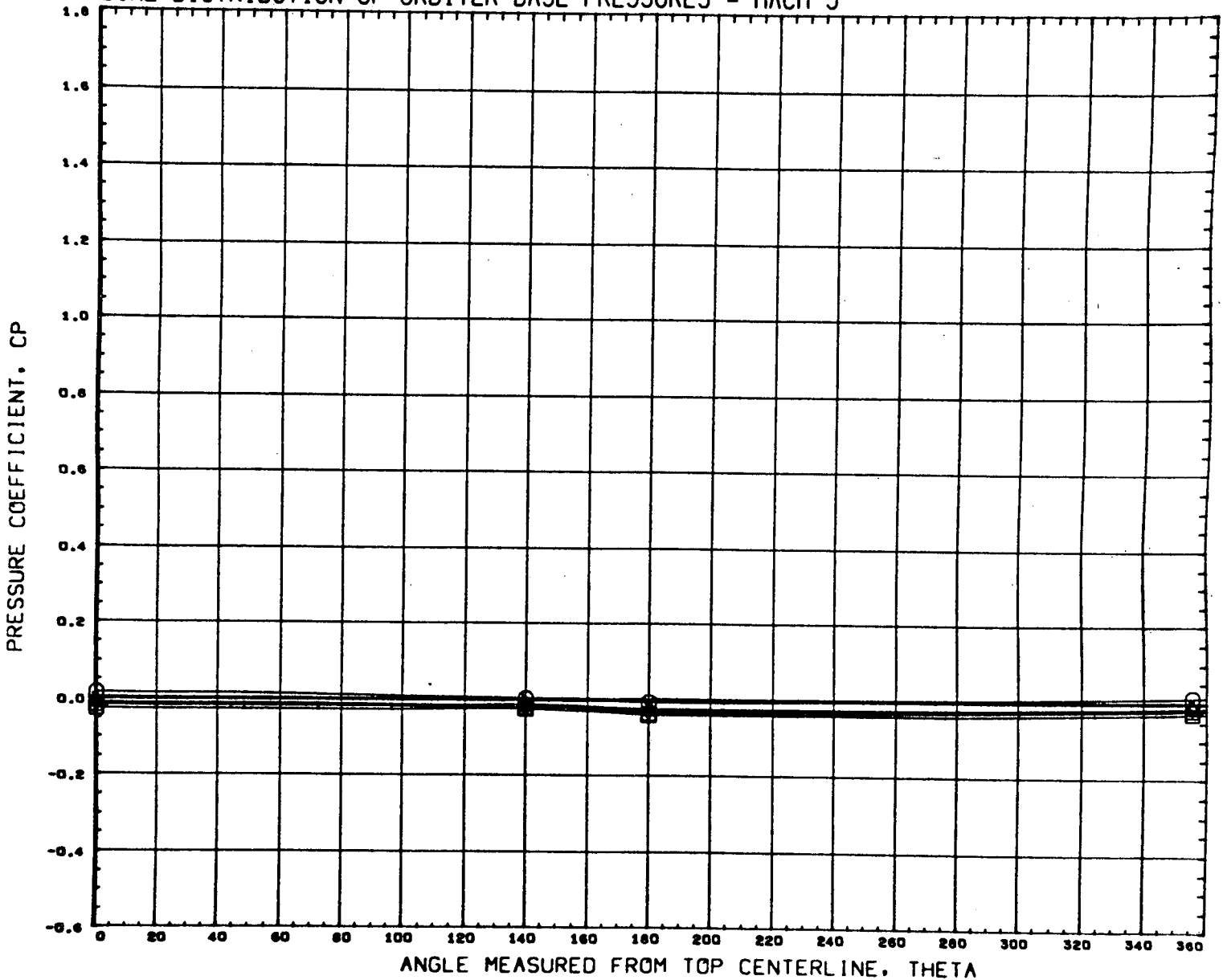
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8535•

PAGE 1048

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

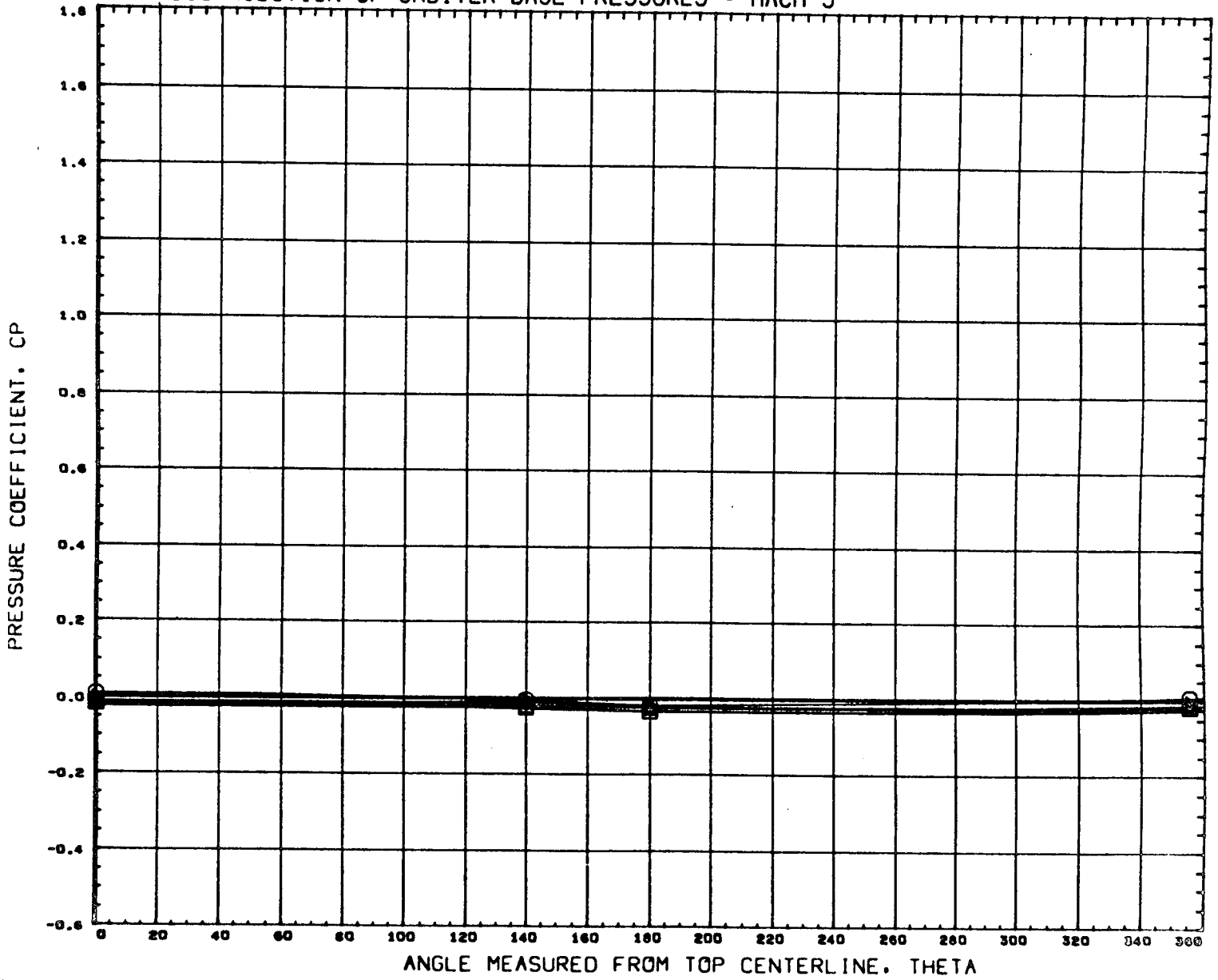


SYMBOL	DELTA X	X/L	DELTA Z
□	0.390	1.000	0.120
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

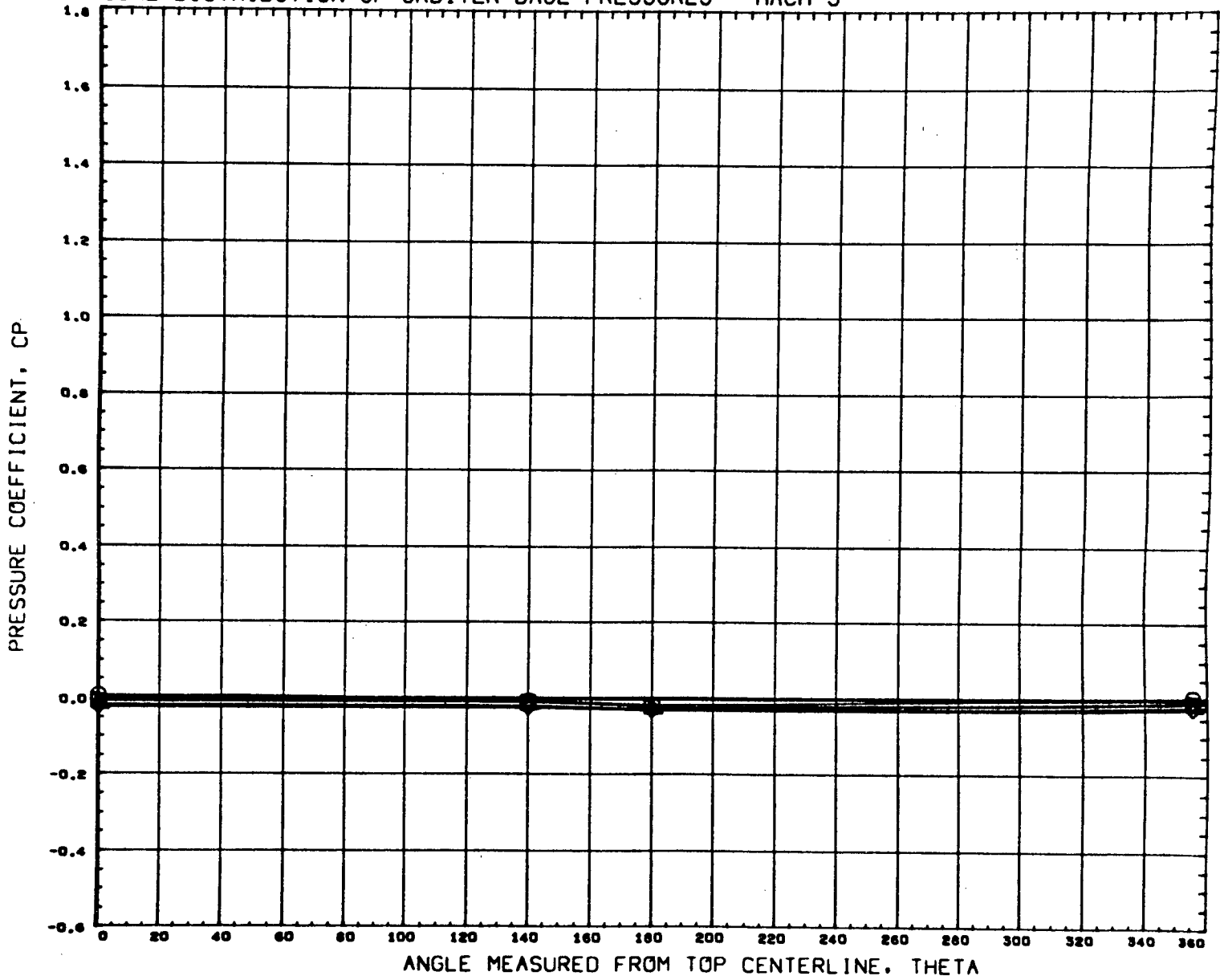


SYMBOL	DELTA X	X/L	DELTA Z
□	0.390	1.000	0.191
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	90.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

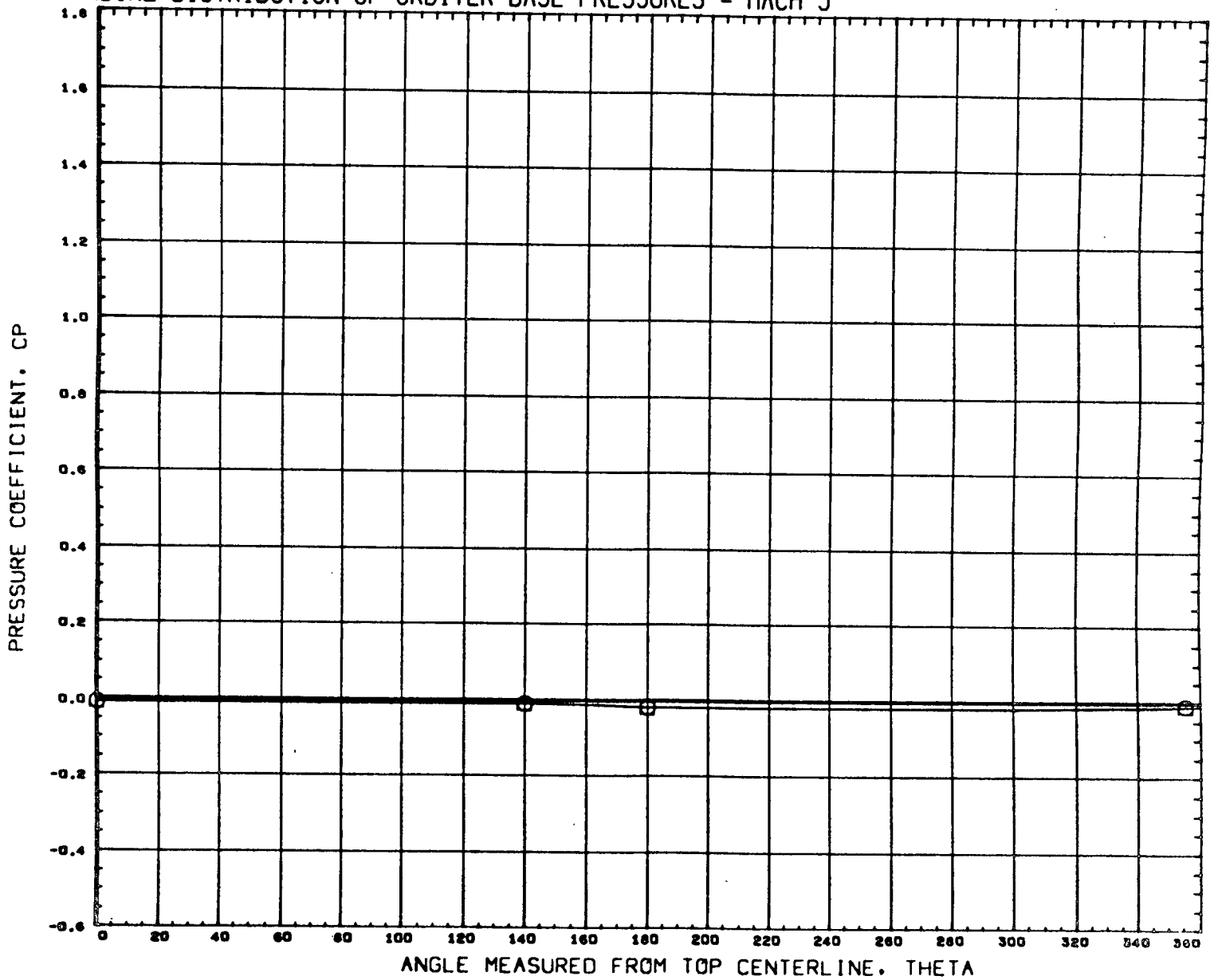


SYMBOL	DELTA X	X/L	DELTA Z
◇	0.390	1.000	0.226
◇	0.143		
◇	0.020		
◇	0.103		
◇	0.227		
◇	0.350		

REFERENCE FILE

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.520	1.000	0.908

PARAMETRIC VALUES			
ALPHAB	10.053	MACH	4.940
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

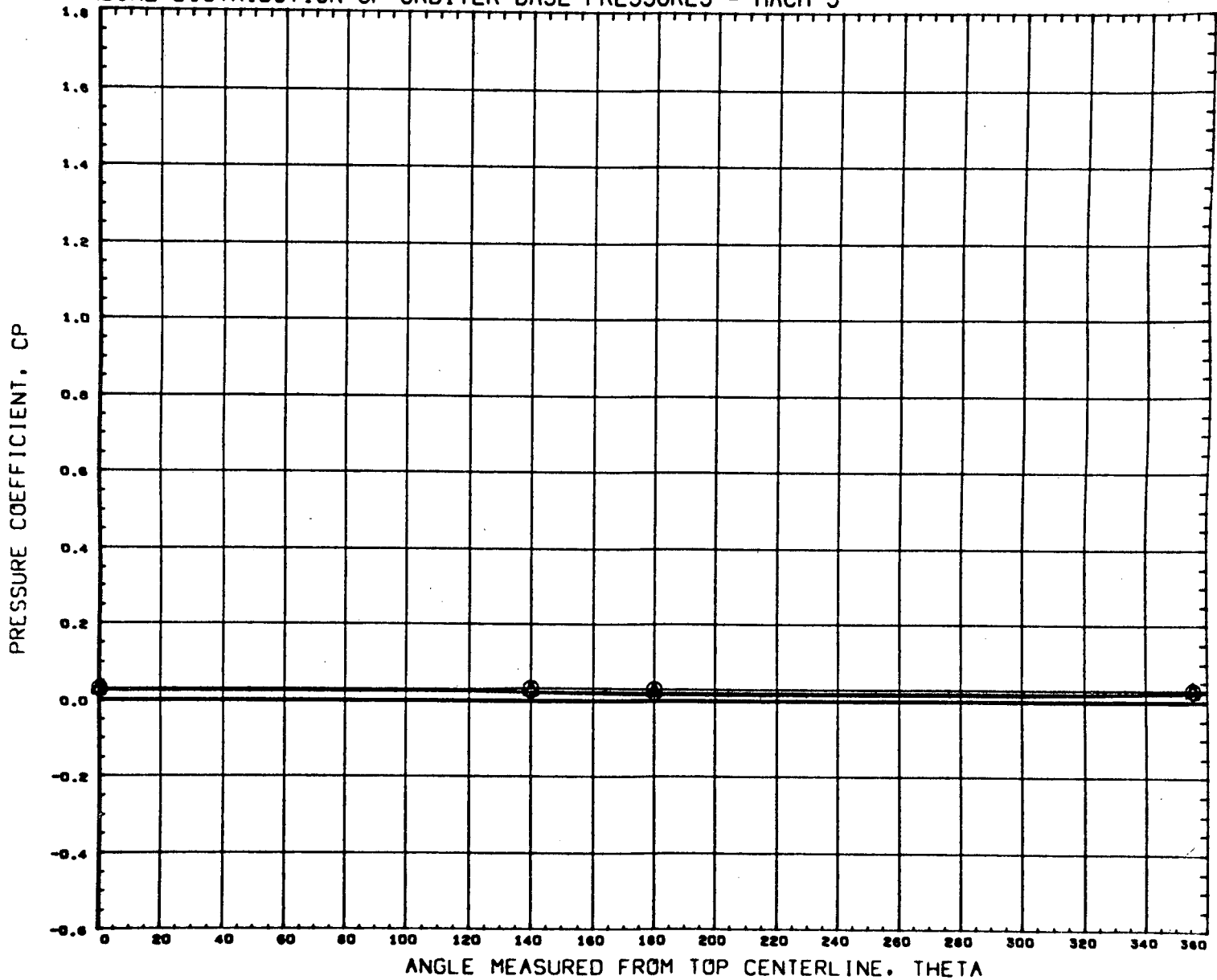
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8535•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	9.920	MACH	4.970
ALPHA1	9.000	ORBPOW	100.000
BSTPOW	50.000		

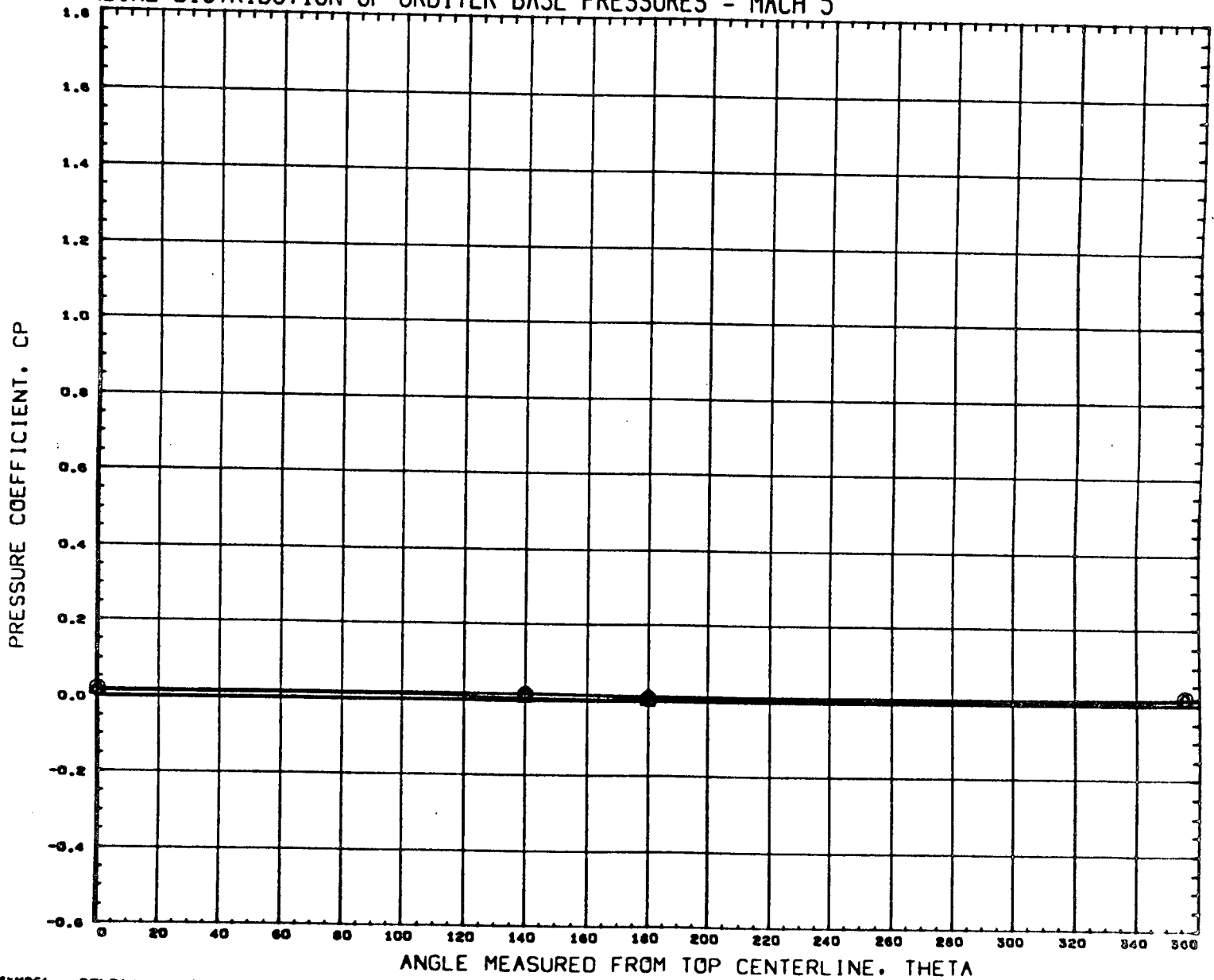
REFERENCE FILE

AEDC VA1163 MOAC ORBITER (BASE)

•IT8541•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.130
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	- 4.896	MACH	4.970
ALPHA1	9.000	ORBPOW	100.000
BSTPOW	30.000		

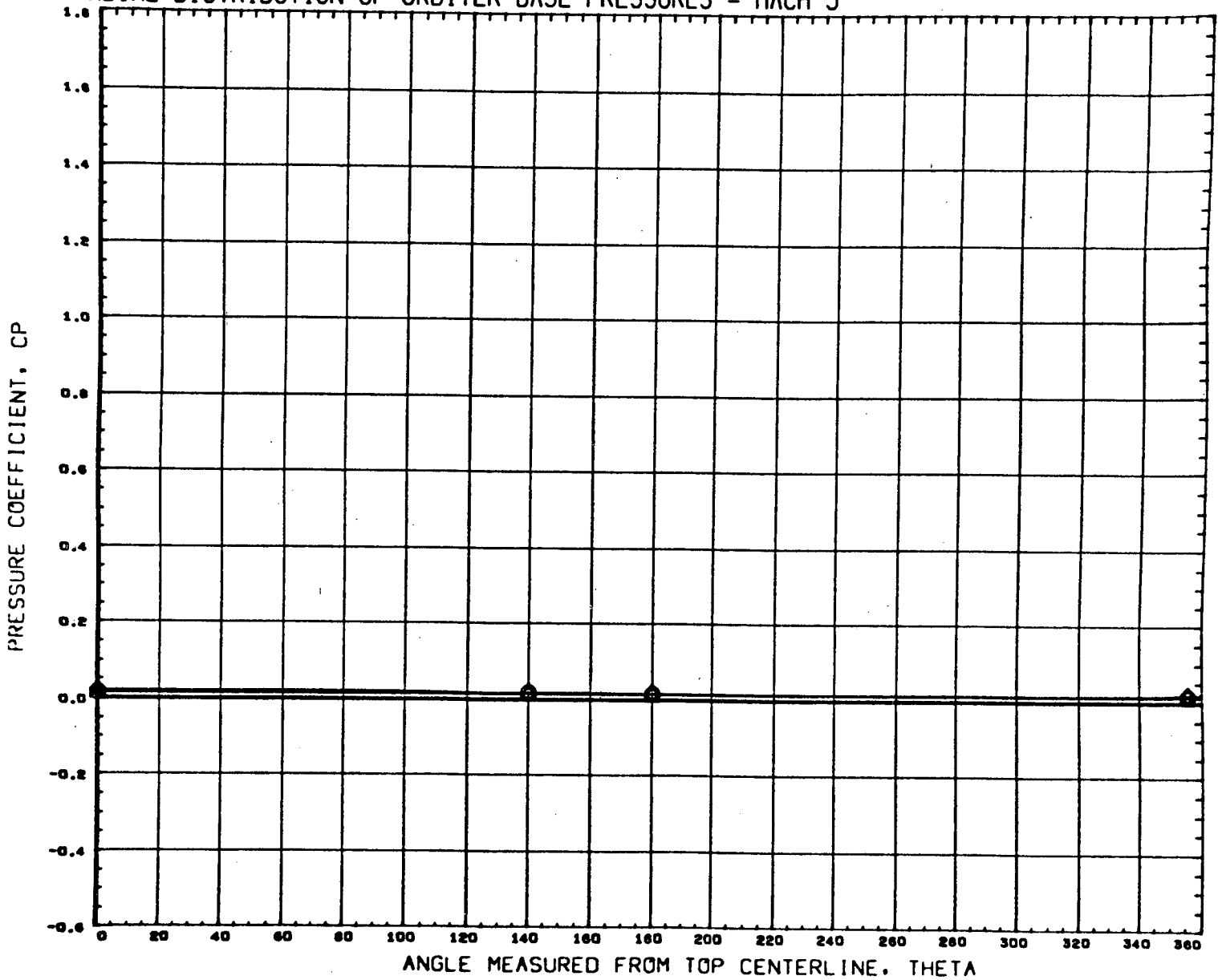
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8542•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHA B	4.896	MACH	4.970
ALPHA I	5.000	ORBSPOW	100.000
BSTPOW	50.000		

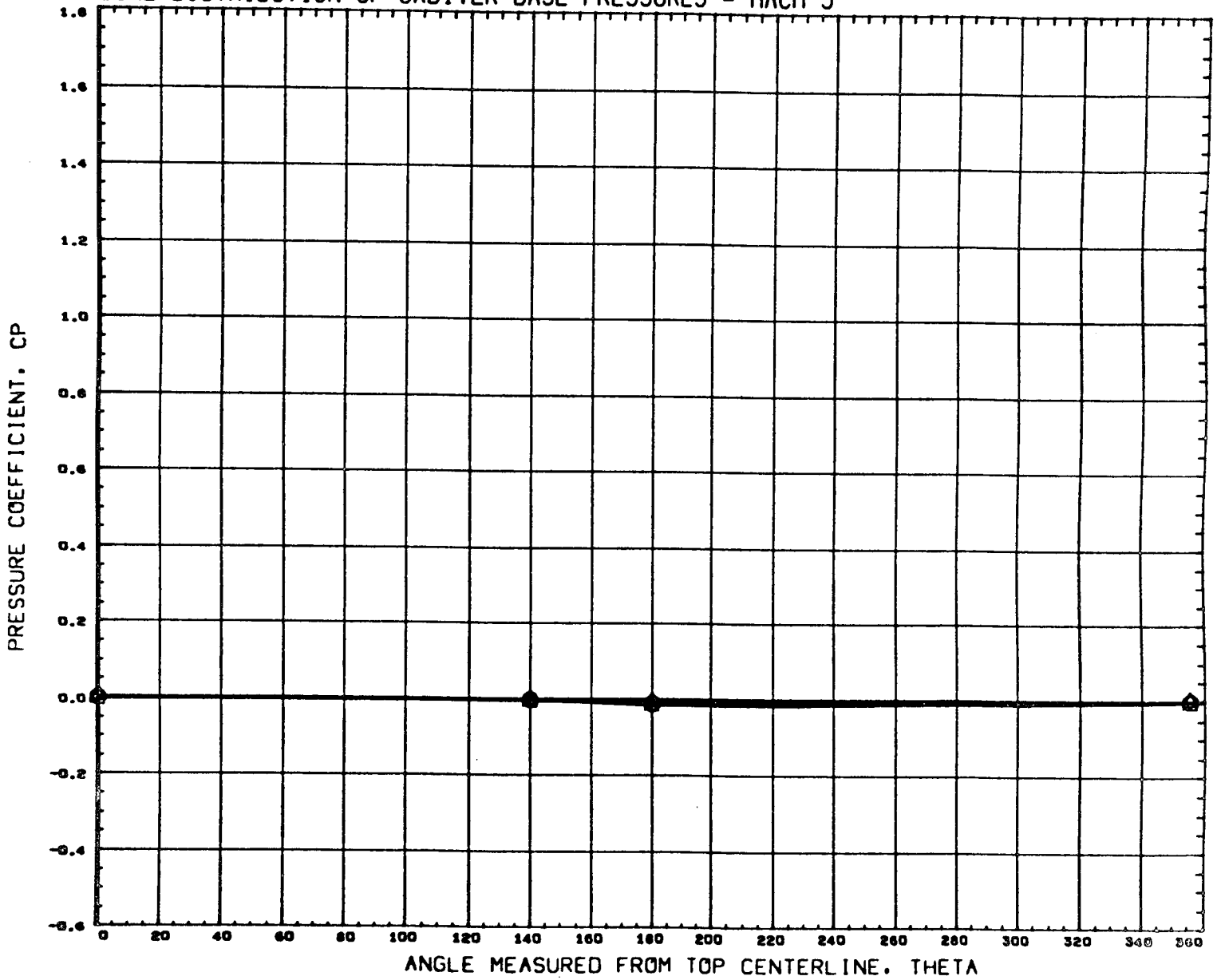
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8542•

PAGE 1055

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.055	MACH	4.970
ALPHA I	5.000	ORBPOW	100.000
BSTPOW	50.000		

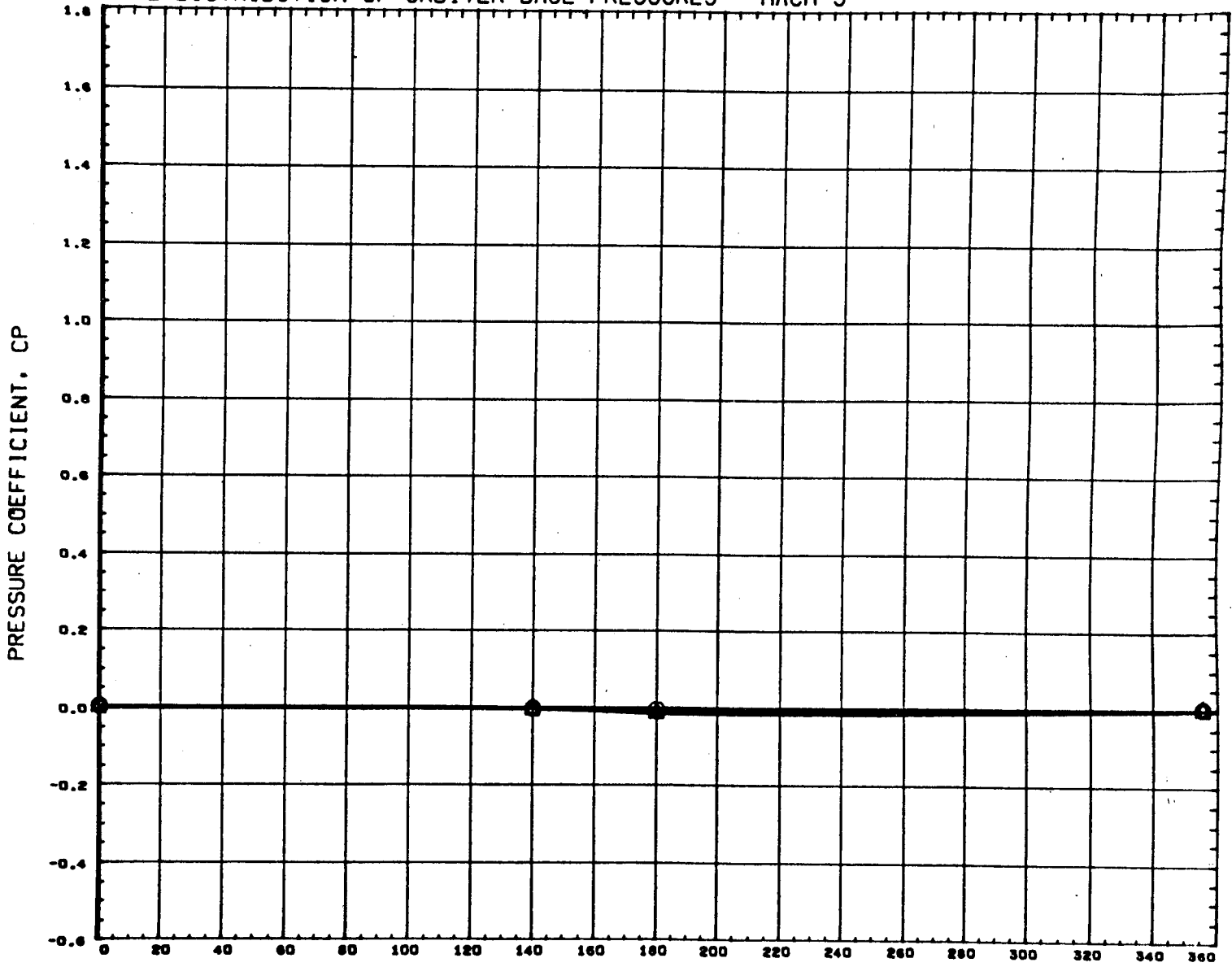
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8543•

PAGE 1056

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.055	MACH	4.970
ALPHAI	5.000	ORBP/W	100.000
BSTP/W	50.000		

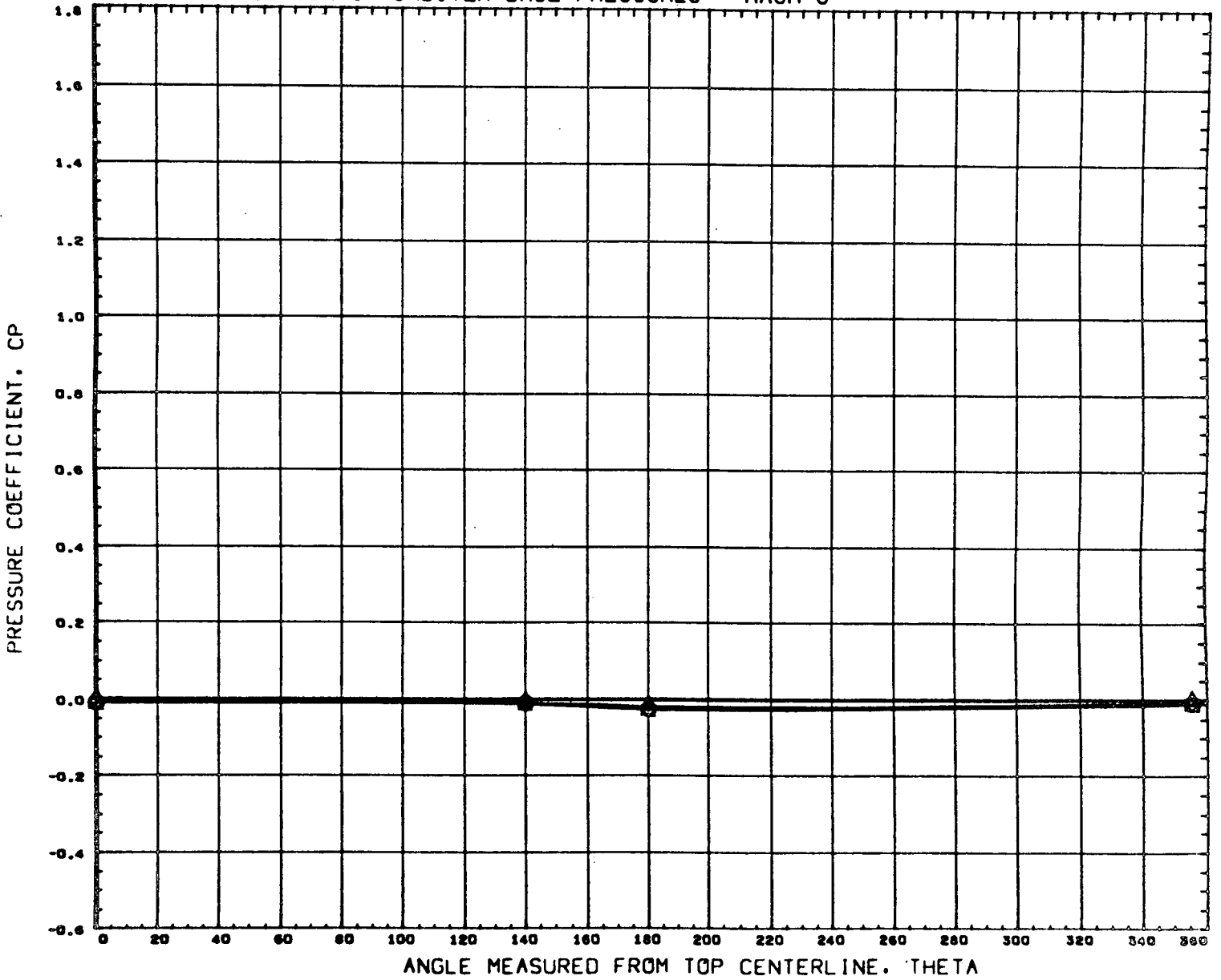
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8543•

PAGE 1057

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

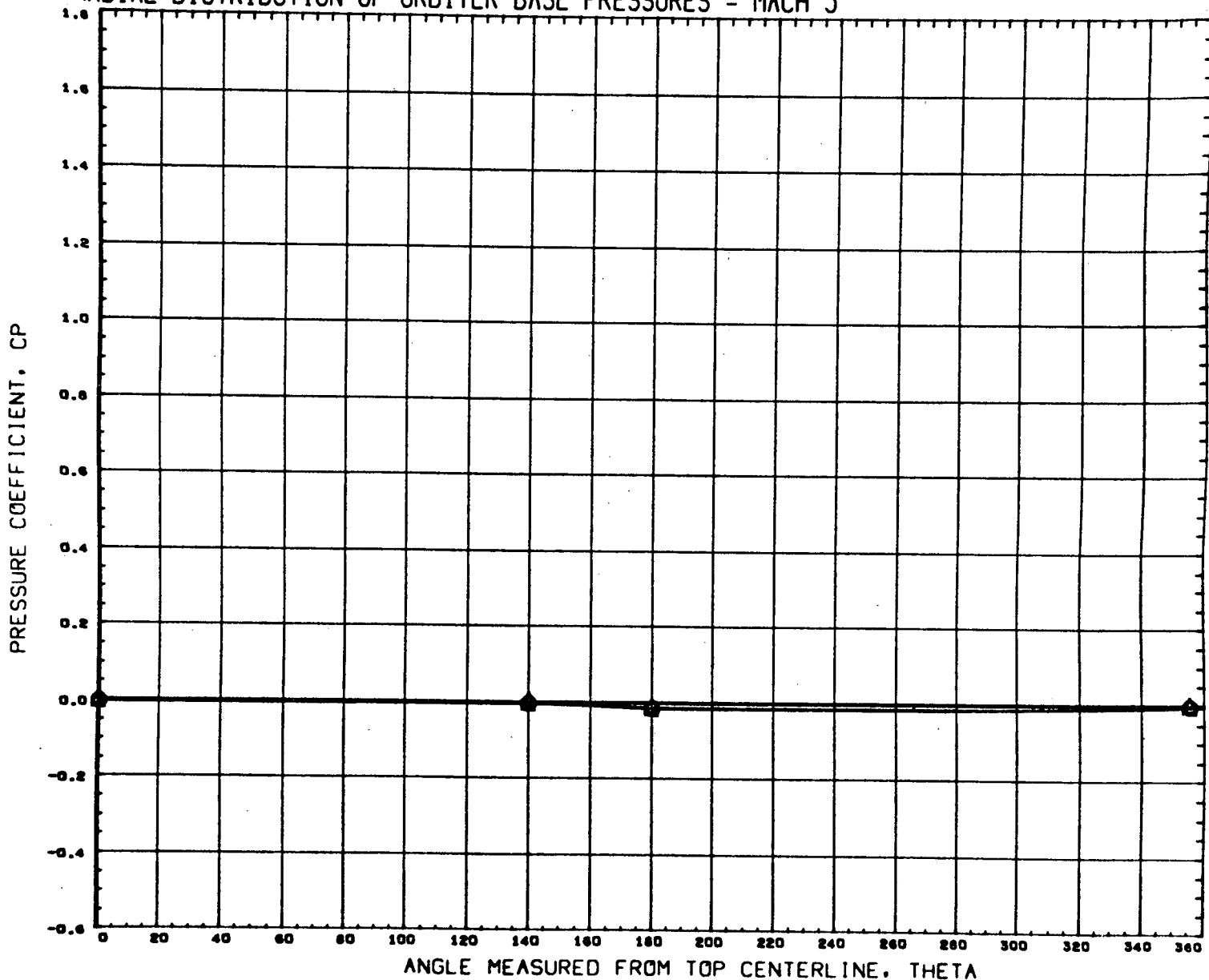


SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.051	MACH	4.970
ALPHA I	5.000	ORSPOW	100.000
BSSTPOW	50.000		

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.227
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	9.051	MACH 4.970
ALPHA I	9.000	ORBPOW 100.000
BSTPOW	50.000	

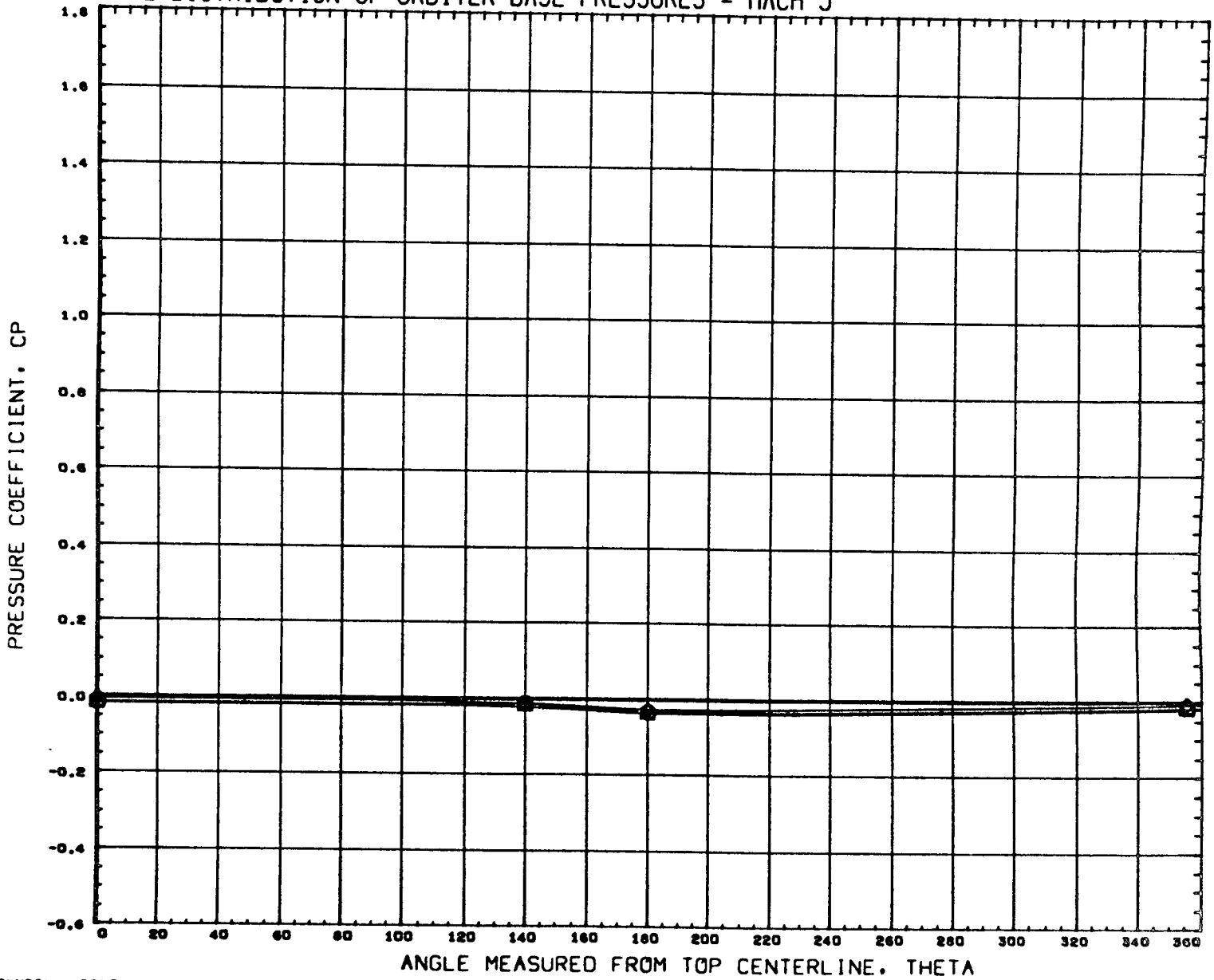
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8544•

PAGE 1059

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.150
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	10.050	MACH	4.970
ALPHA I	9.000	ORBPOW	100.000
BSTPOW	50.000		

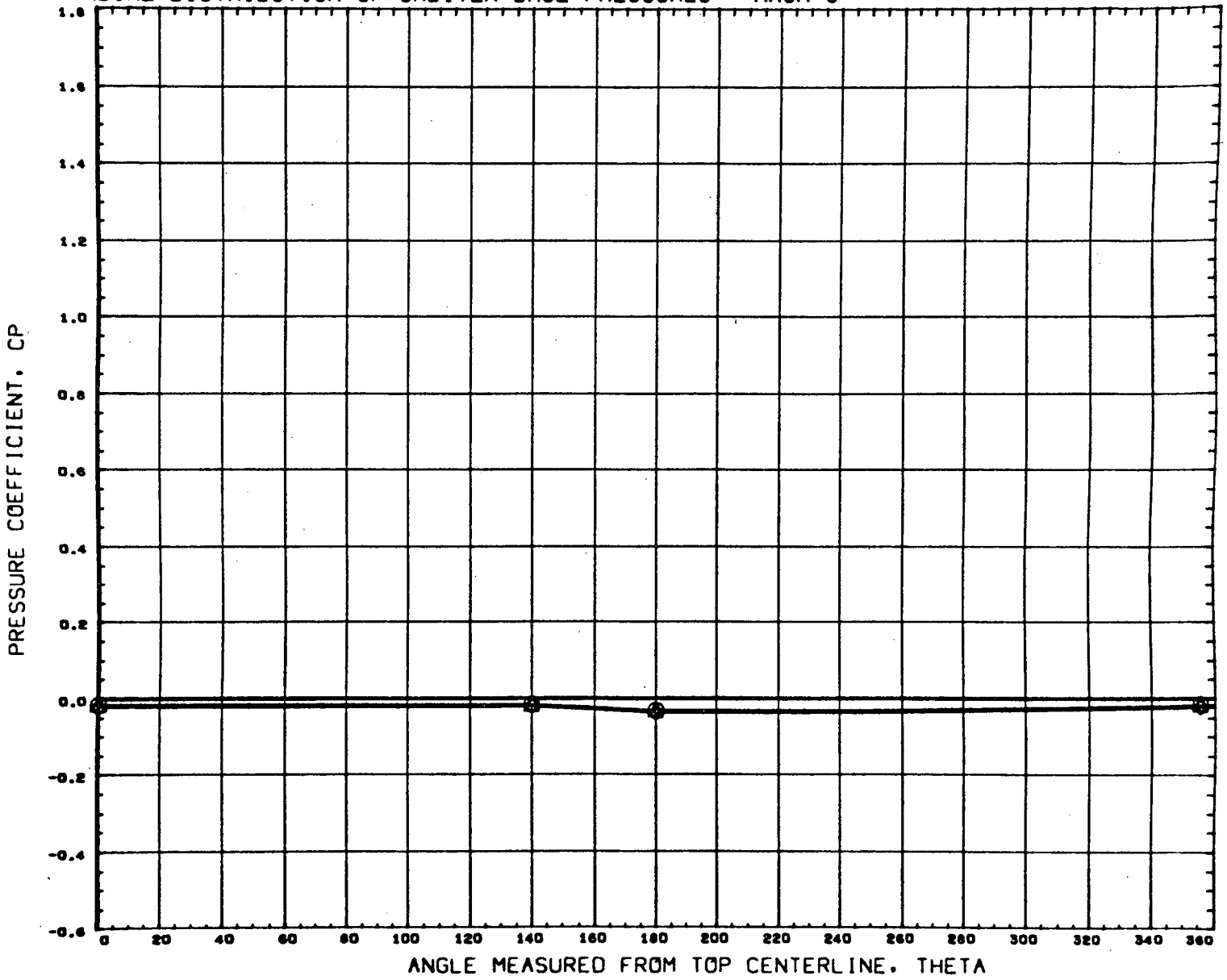
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8545•

PAGE 1060

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.150
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.891	MACH	4.970
ALPHA I	9.000	ORBPOW	0.000
BSTPOW	0.000		

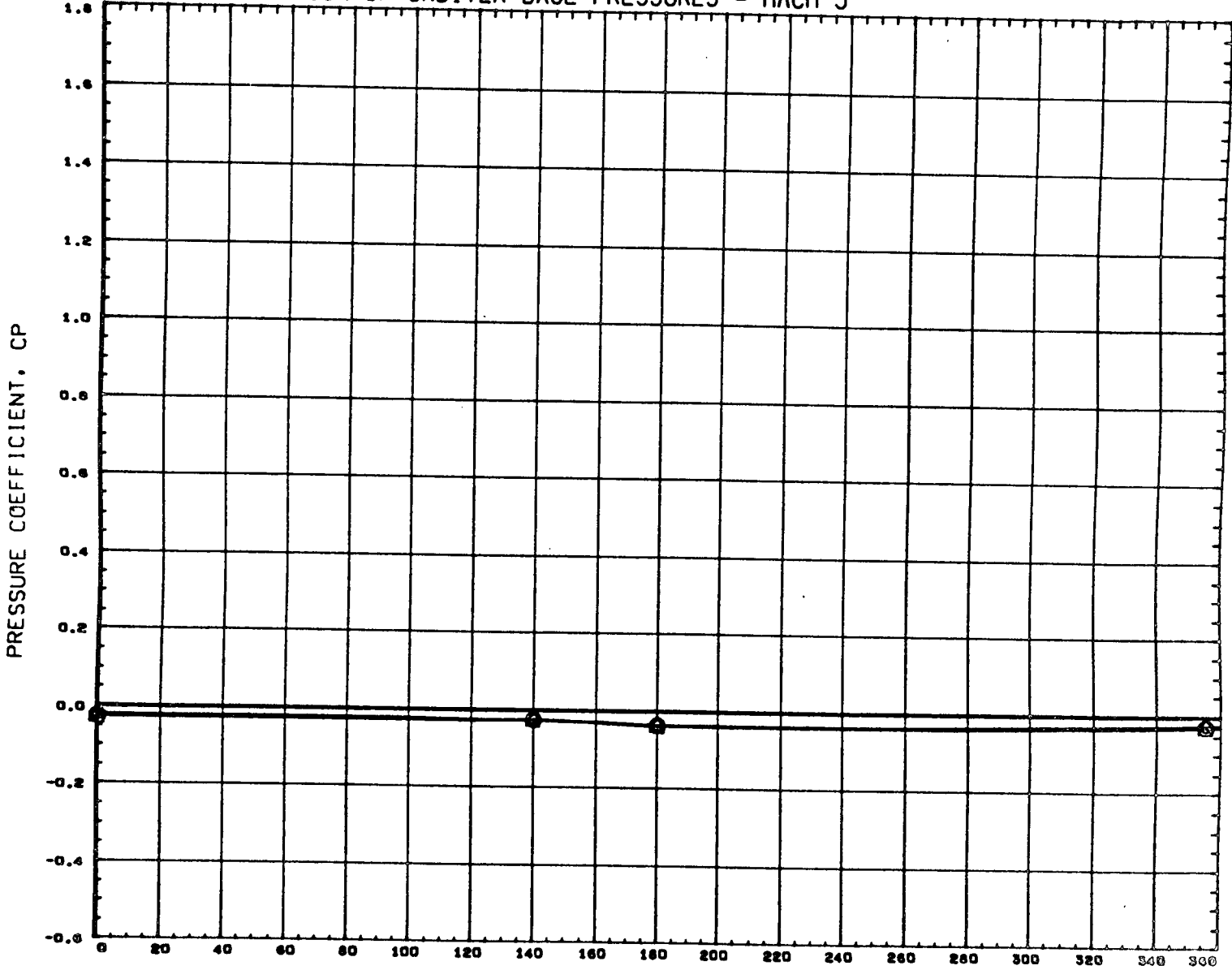
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AEDC VA1163 MDAC ORBITER (BASE)

•IT8552•

PAGE 1061

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

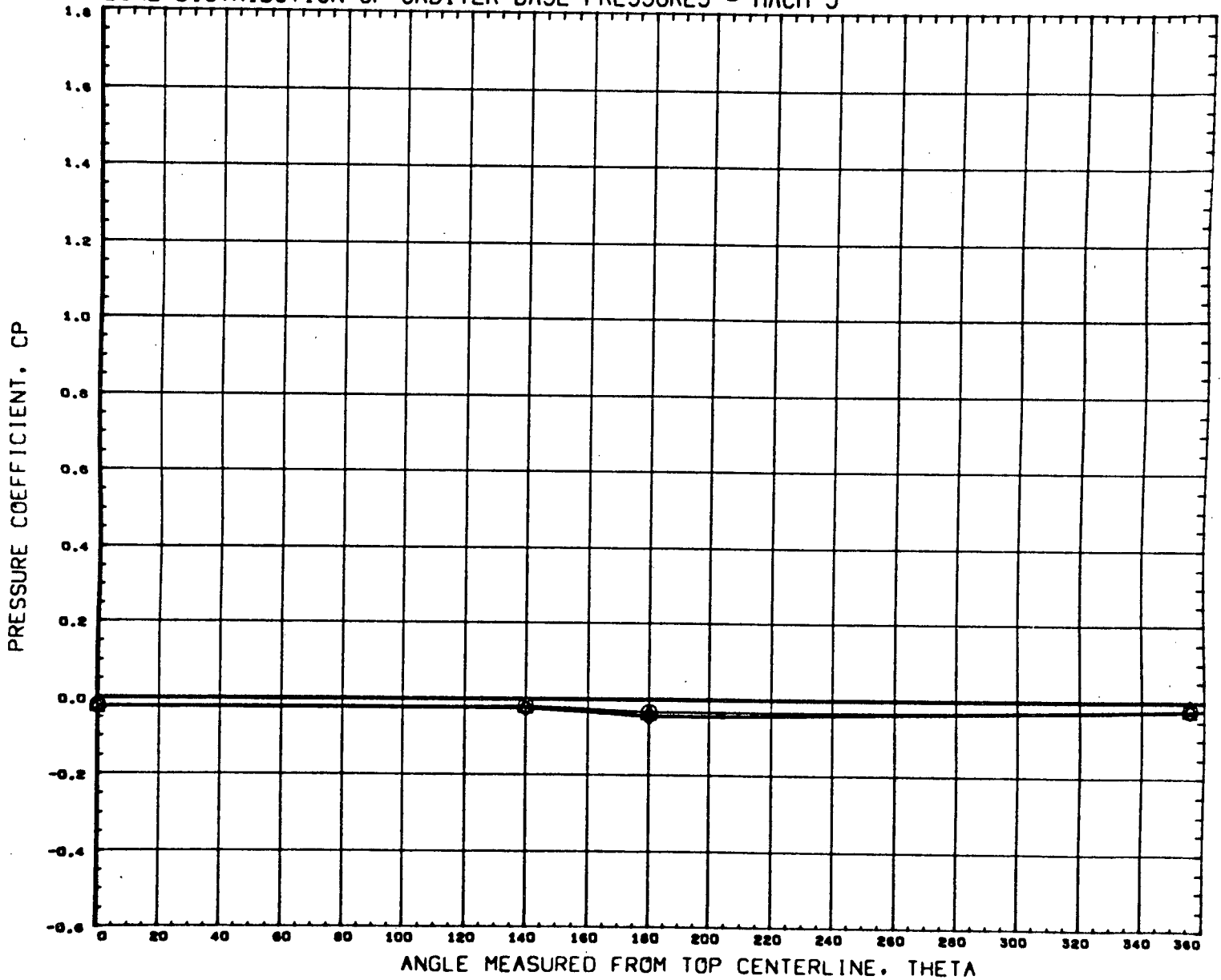


SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.226
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.891	MACH	4.970
ALPHA I	3.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



ANGLE MEASURED FROM TOP CENTERLINE, THETA

SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.150
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.060	MACH	4.970
ALPHA I	5.000	ORBPOW	0.000
BSTPOW	0.000		

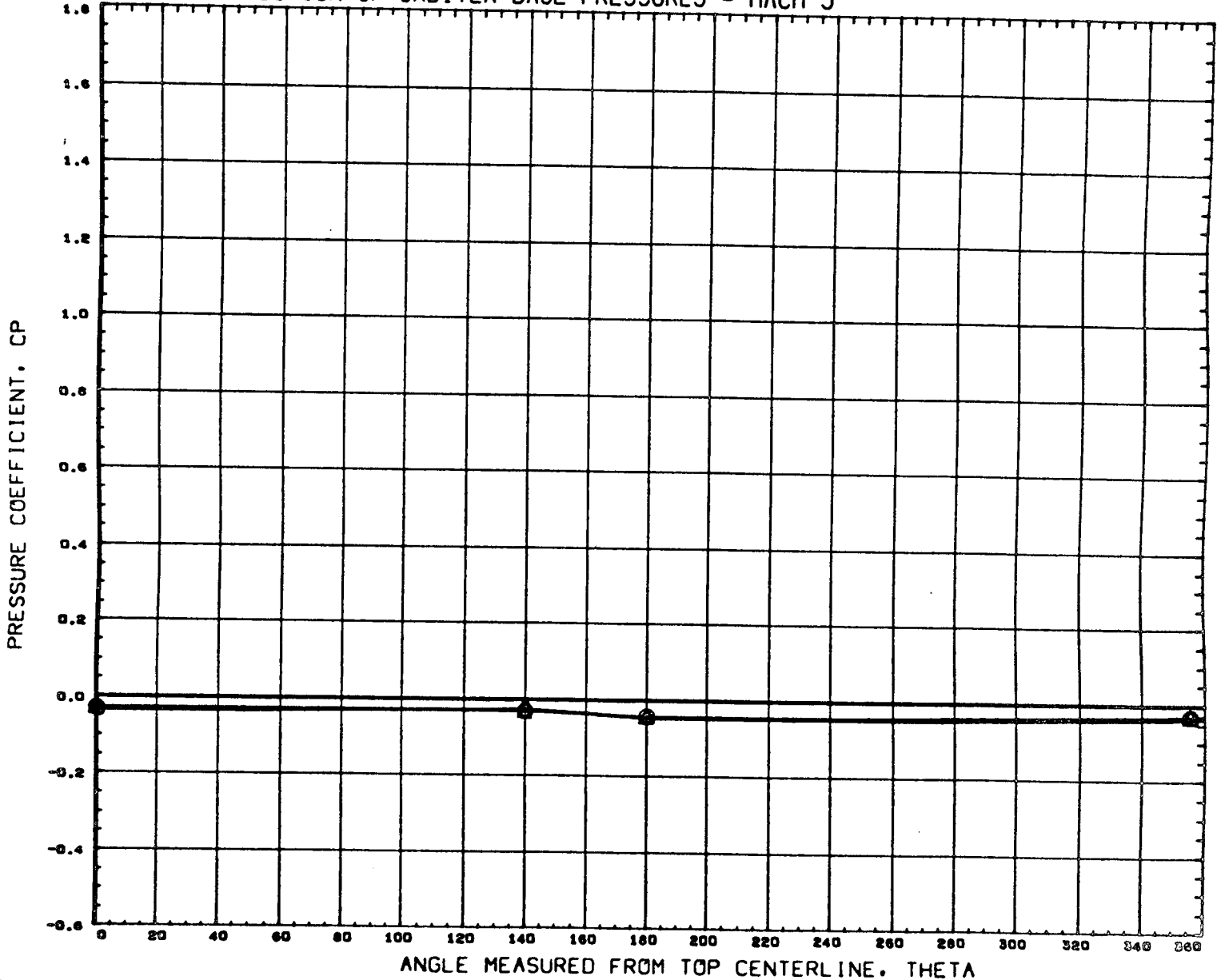
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8553•

PAGE 1063

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

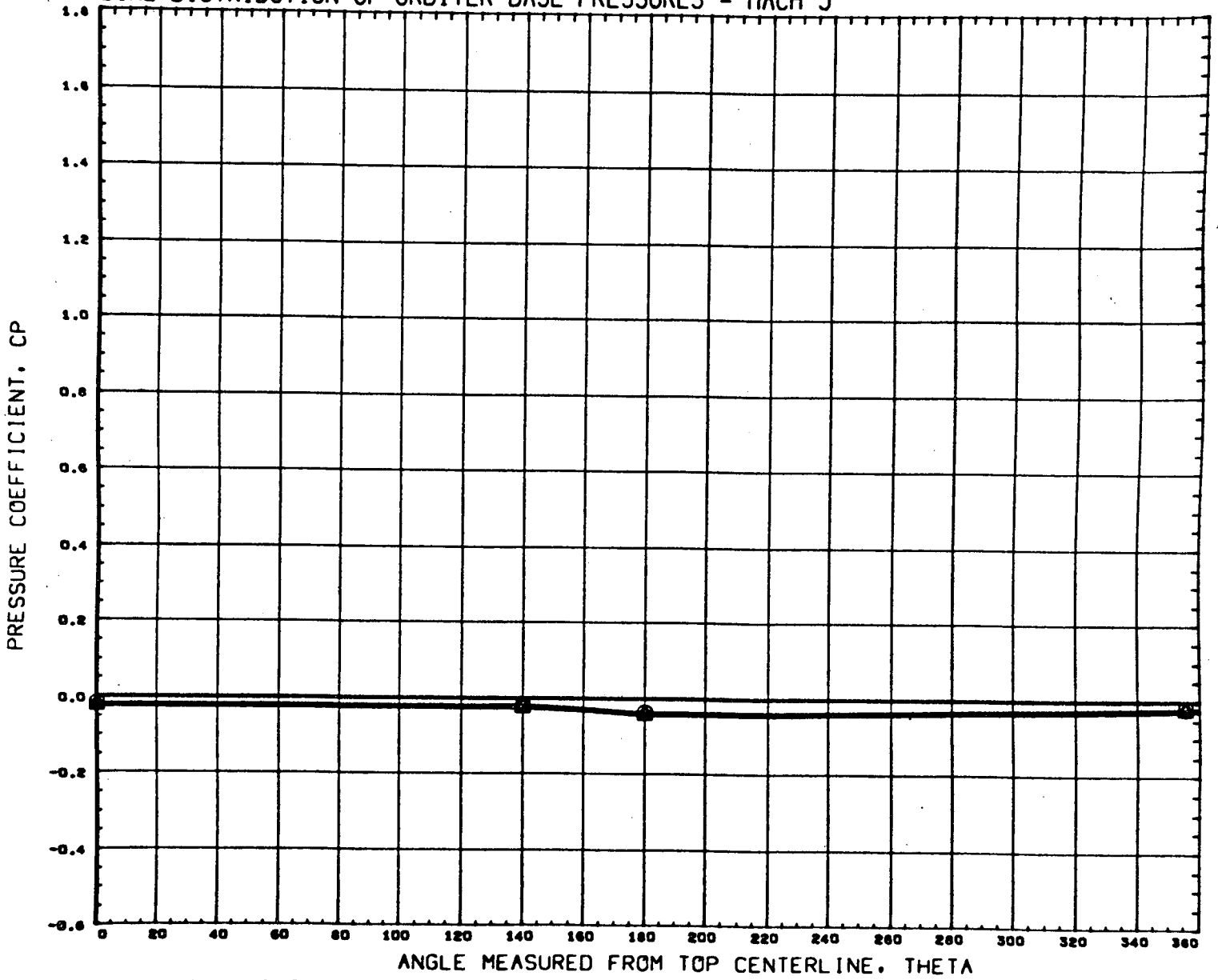


SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.228
△	0.102		
◇	0.228		

PARAMETRIC VALUES			
ALPHAB	0.060	MACH	4.970
ALPHA I	5.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

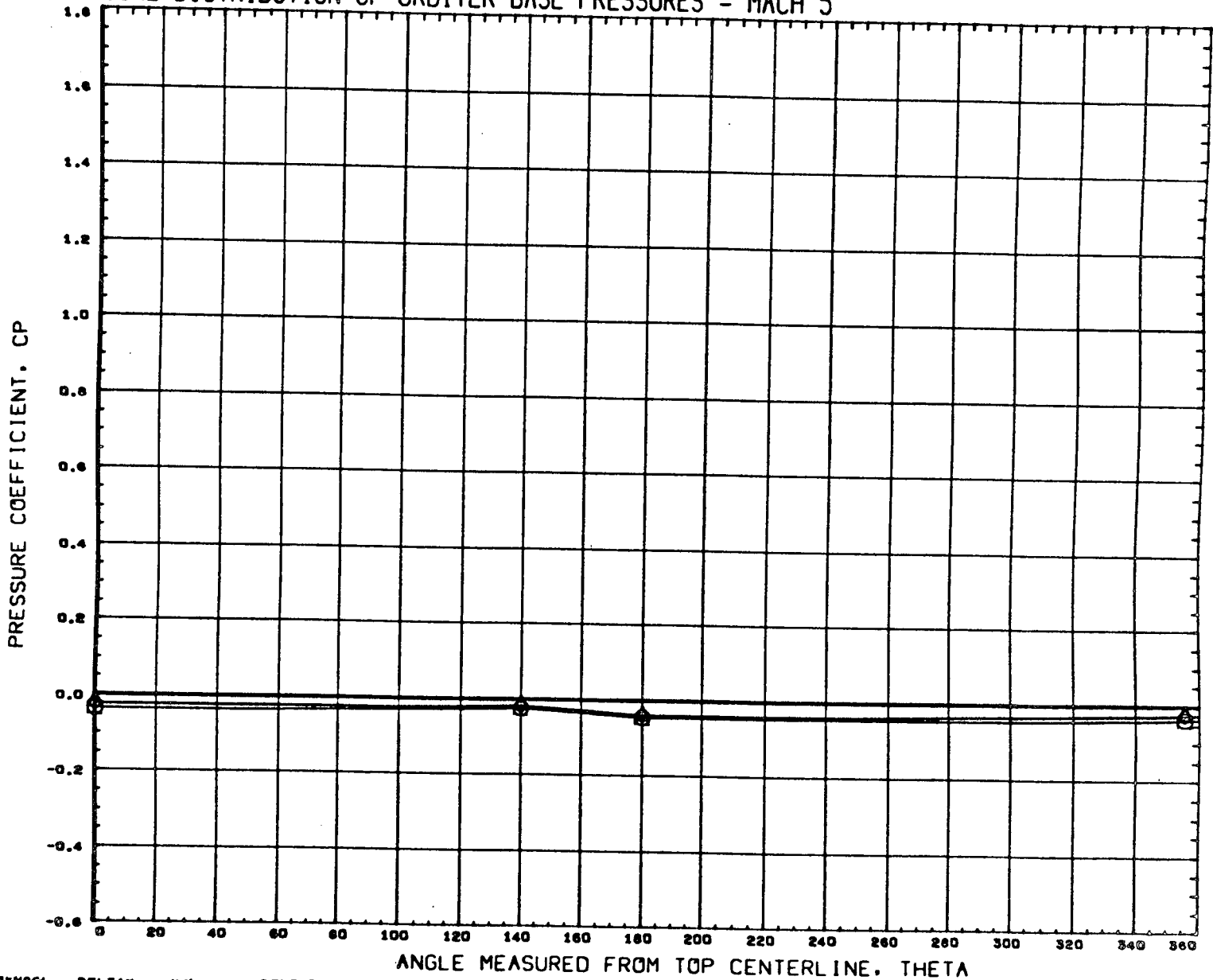


SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.150
△	0.102		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	5.033	MACH 4.970
ALPHA1	5.000	ORBP0W 0.000
BSTP0W	0.000	

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.227
△	0.102		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	5.033	MACH	4.970
ALPHA1	9.000	ORBPOW	0.000
BSTPOW	0.000		

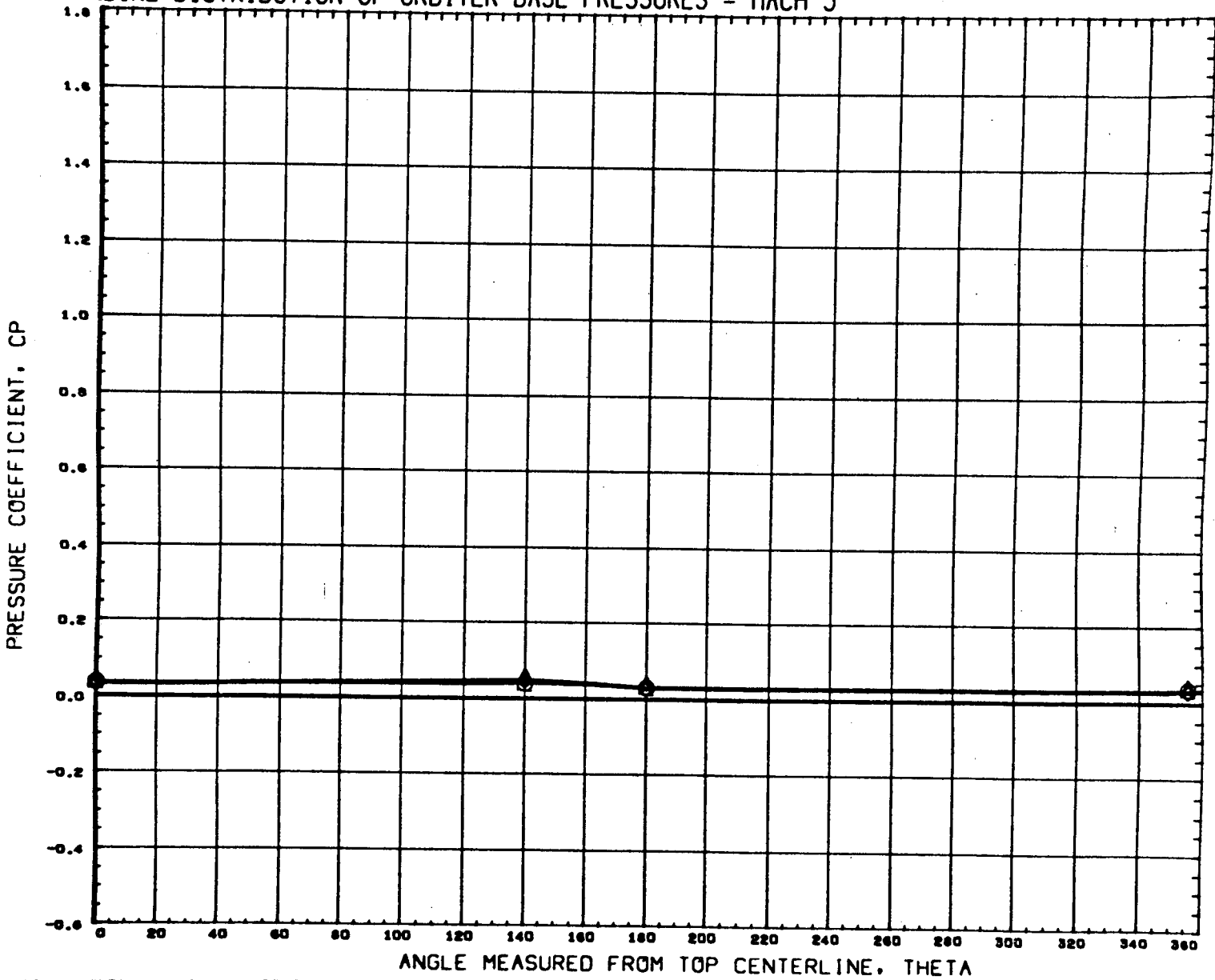
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8554•

PAGE 1066

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.143	1.000	0.120
◇	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.935	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

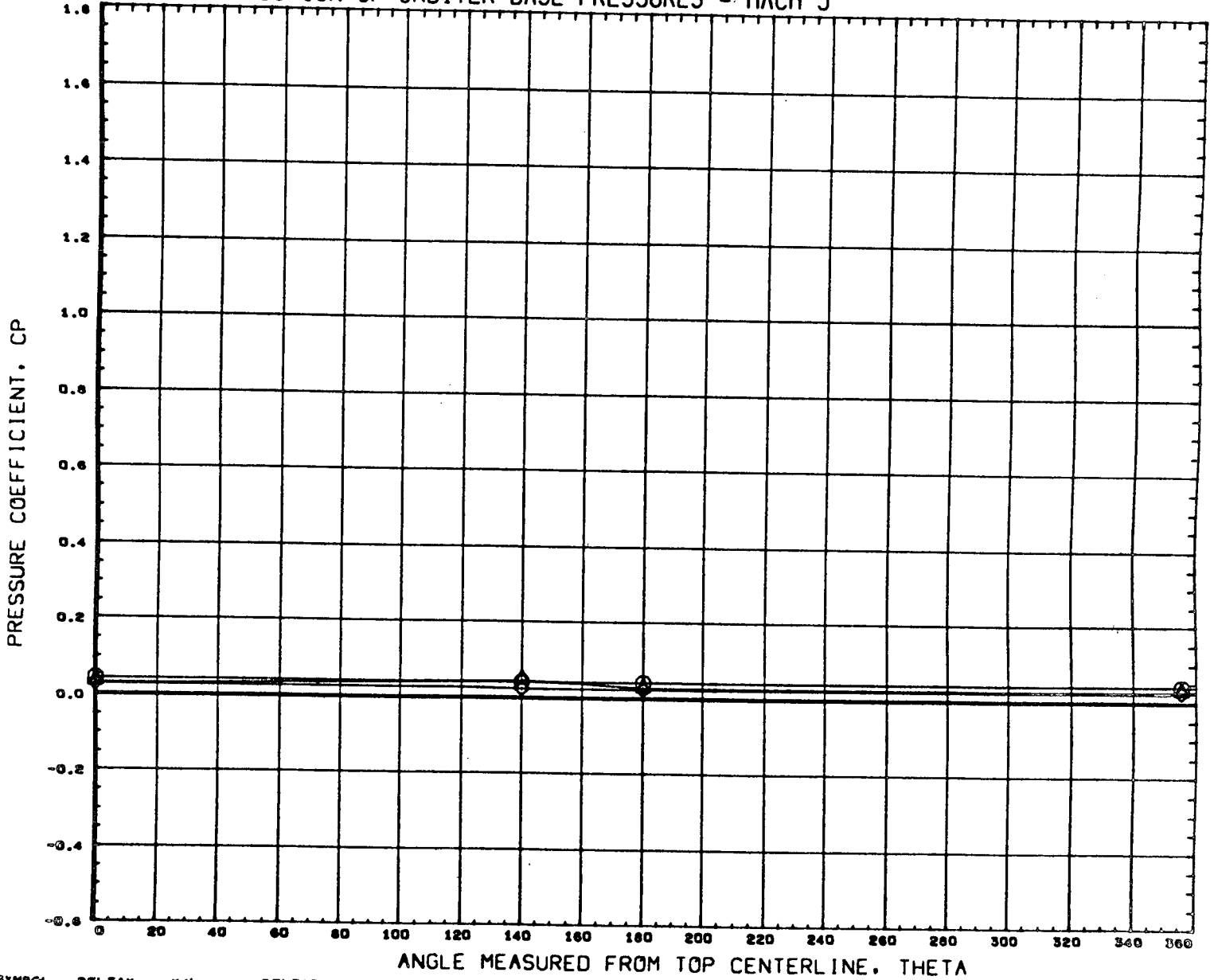
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•118562•

PAGE 1067

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.935	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSTPOW	50.000		

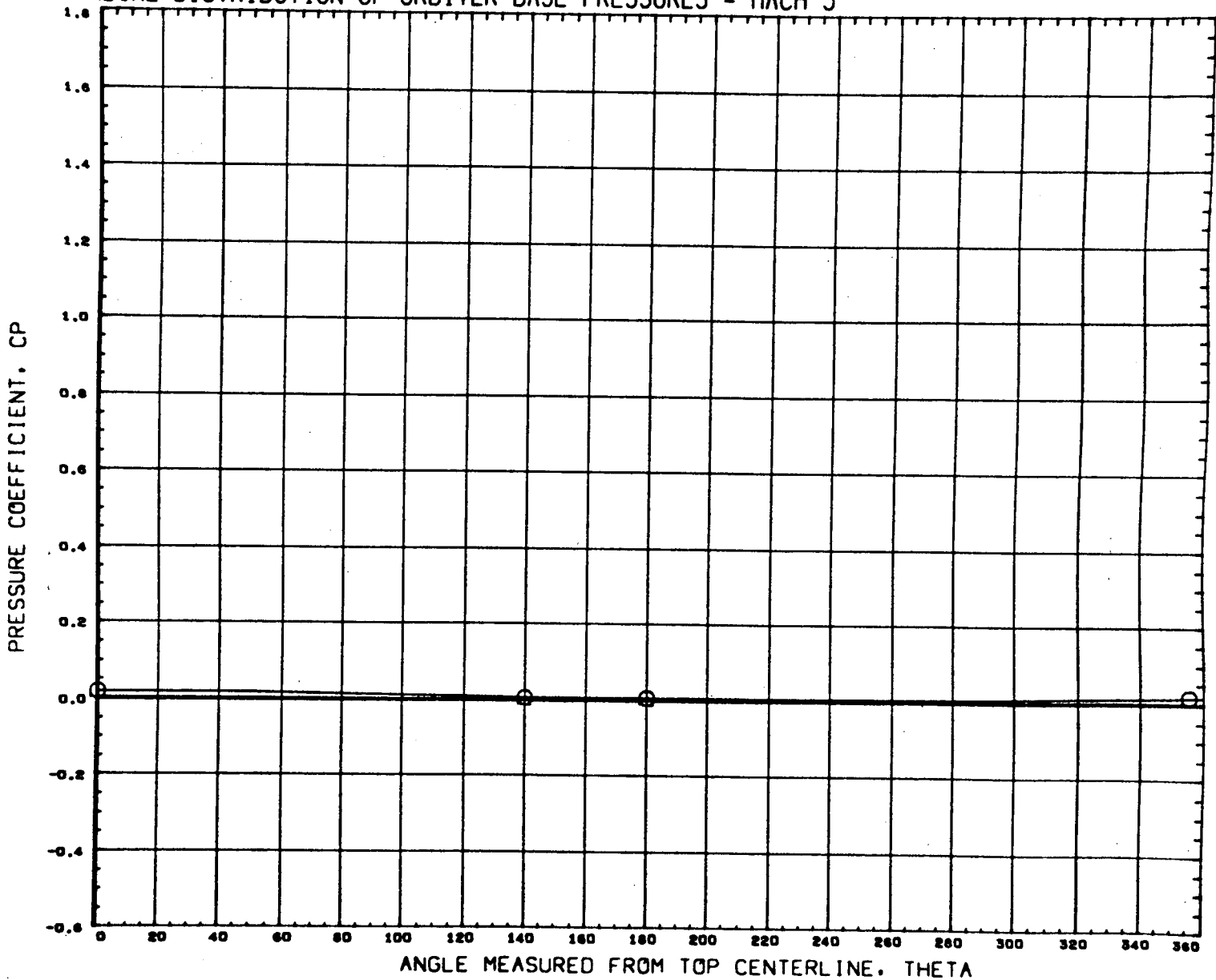
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8562•

PAGE 1068

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.920	1.000	0.908

PARAMETRIC VALUES			
ALPHAB	- 4.935	MACH	4.970
ALPHAI	0.000	ORBPOW	100.000
BSSTPOW	50.000		

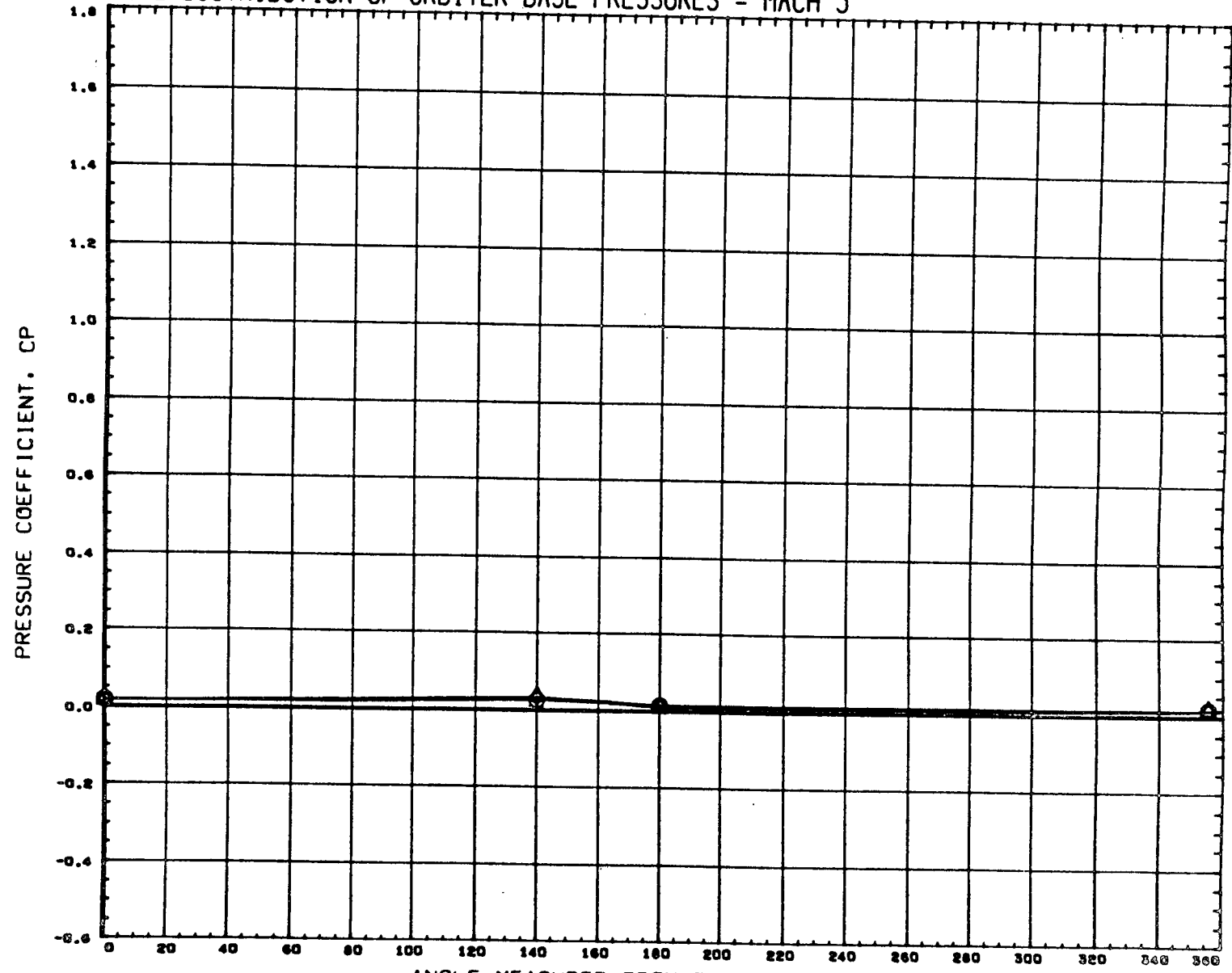
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8562•

PAGE 1069

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



ANGLE MEASURED FROM TOP CENTERLINE, THETA

SYMBOL	DELTA X	X/L	DELTA Z
-	0.143	1.000	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHA B	0.002	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
ESTPOW	30.000		

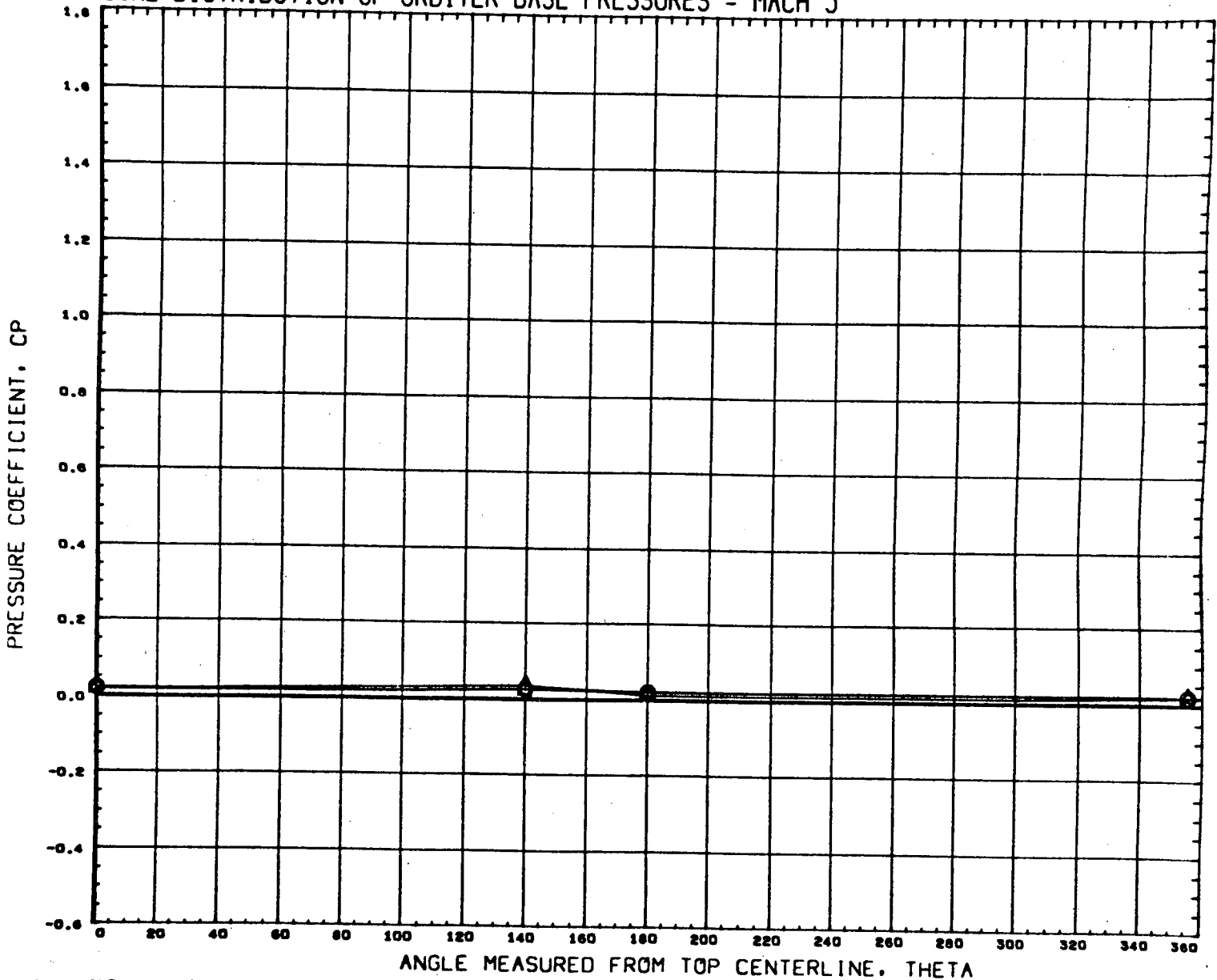
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8563•

PAGE 1070

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES		
ALPHAB	0.002	MACH 4.970
ALPHA I	0.000	ORBPOW 100.000
BSSTPOW	90.000	

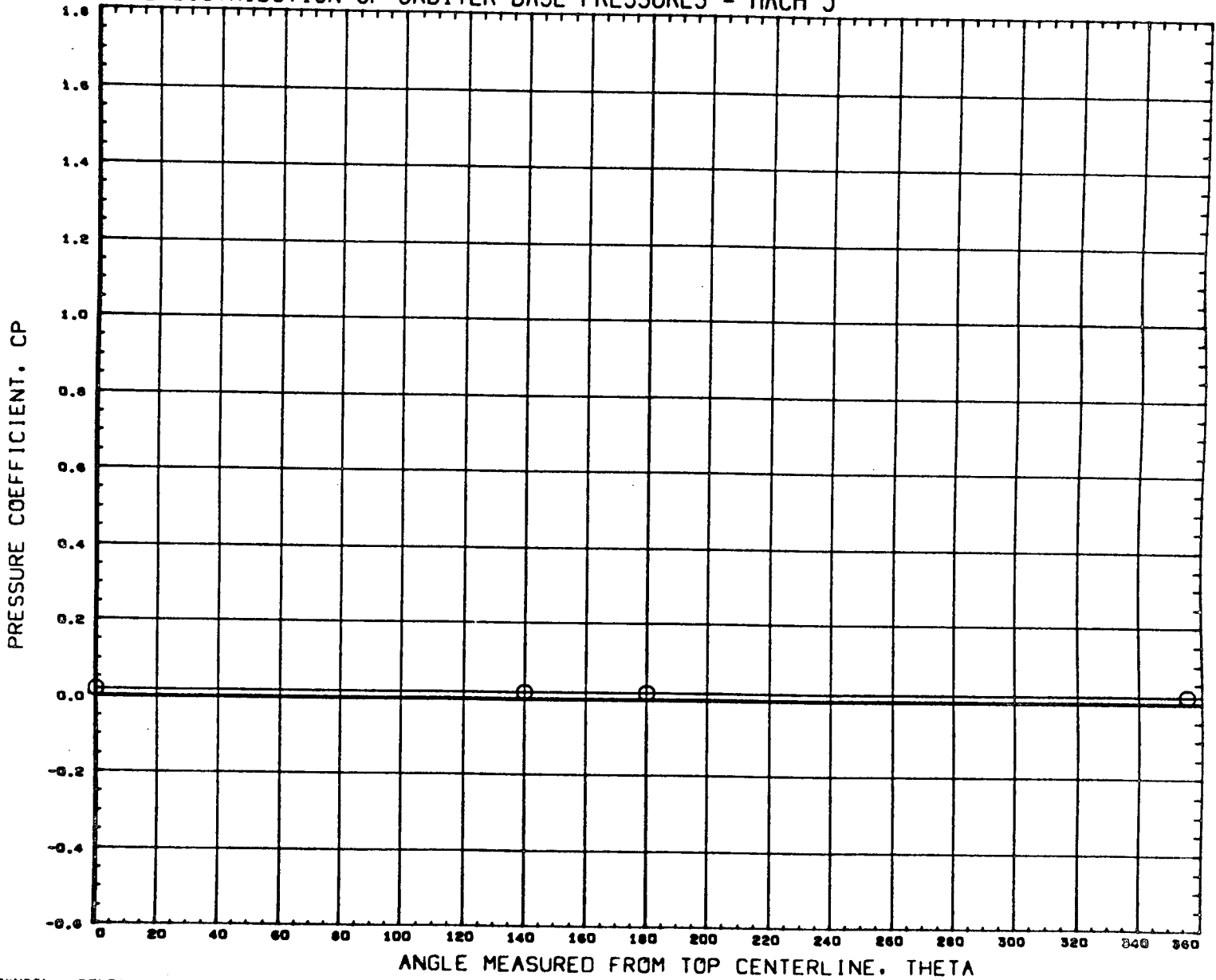
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8563•

PAGE 1071

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.520	1.000	0.908

PARAMETRIC VALUES			
ALPHA B	0.002	MACH	4.970
ALPHA I	0.000	ORBPOW	100.000
BSTPOW	50.000		

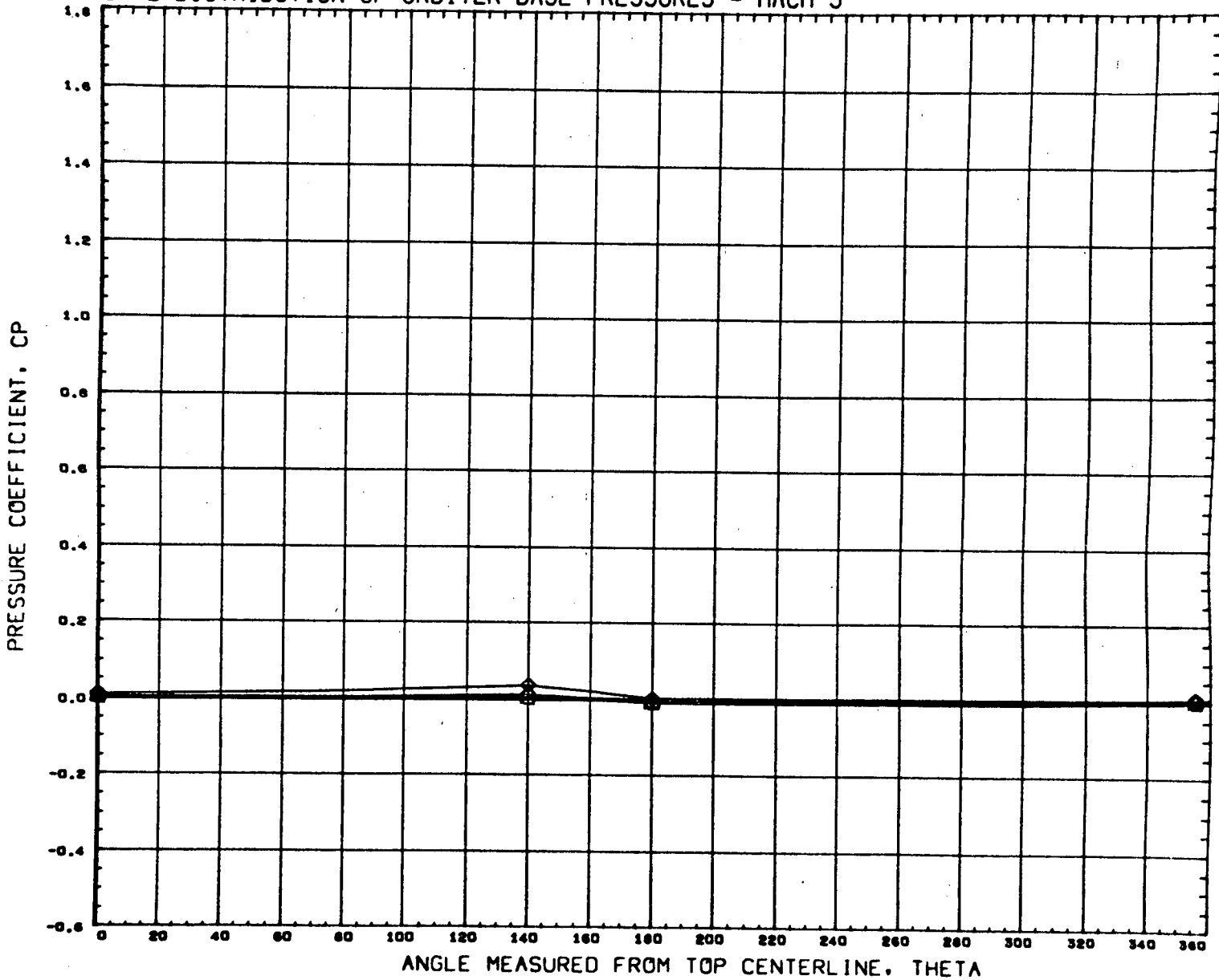
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8563•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



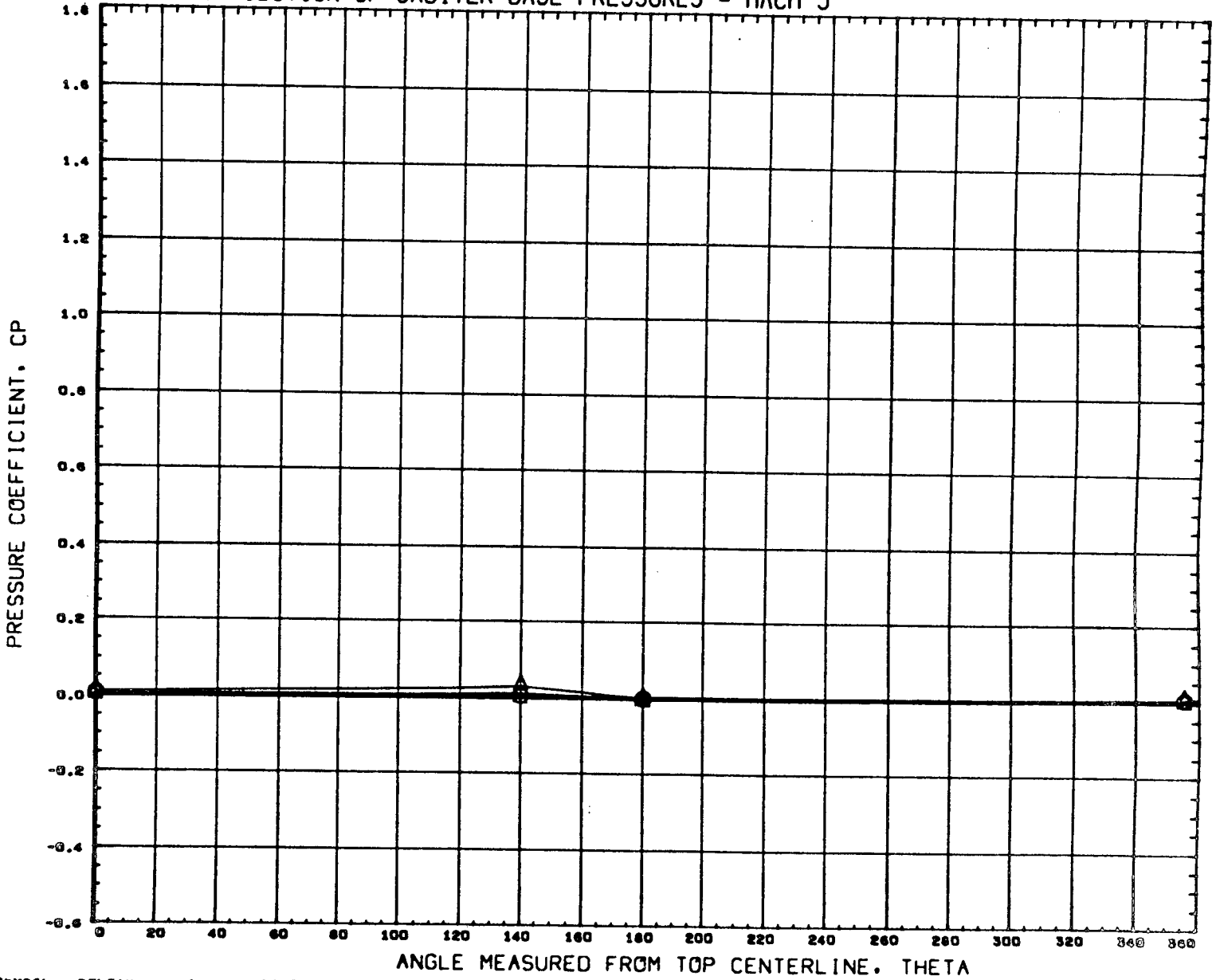
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8564•

PAGE 1073

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

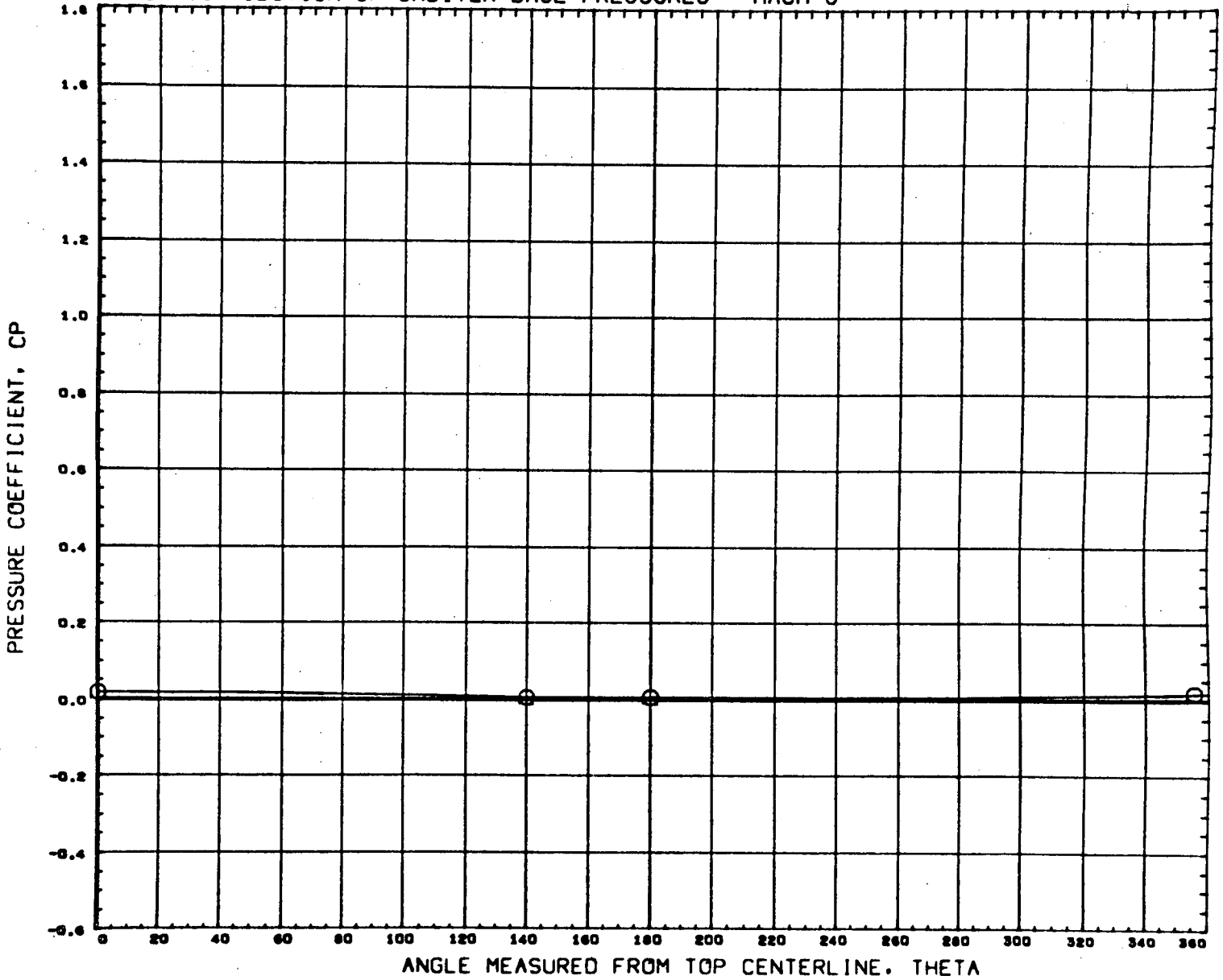


SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.151
△	0.103		
◇	0.220		

PARAMETRIC VALUES			
ALPHAB	3.378	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	50.000		

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL \bigcirc DELTAX 0.920 X/L 1.000 DELTAZ 0.906

PARAMETRIC VALUES
 ALPHAB 3.378 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 SSTPOW 50.000

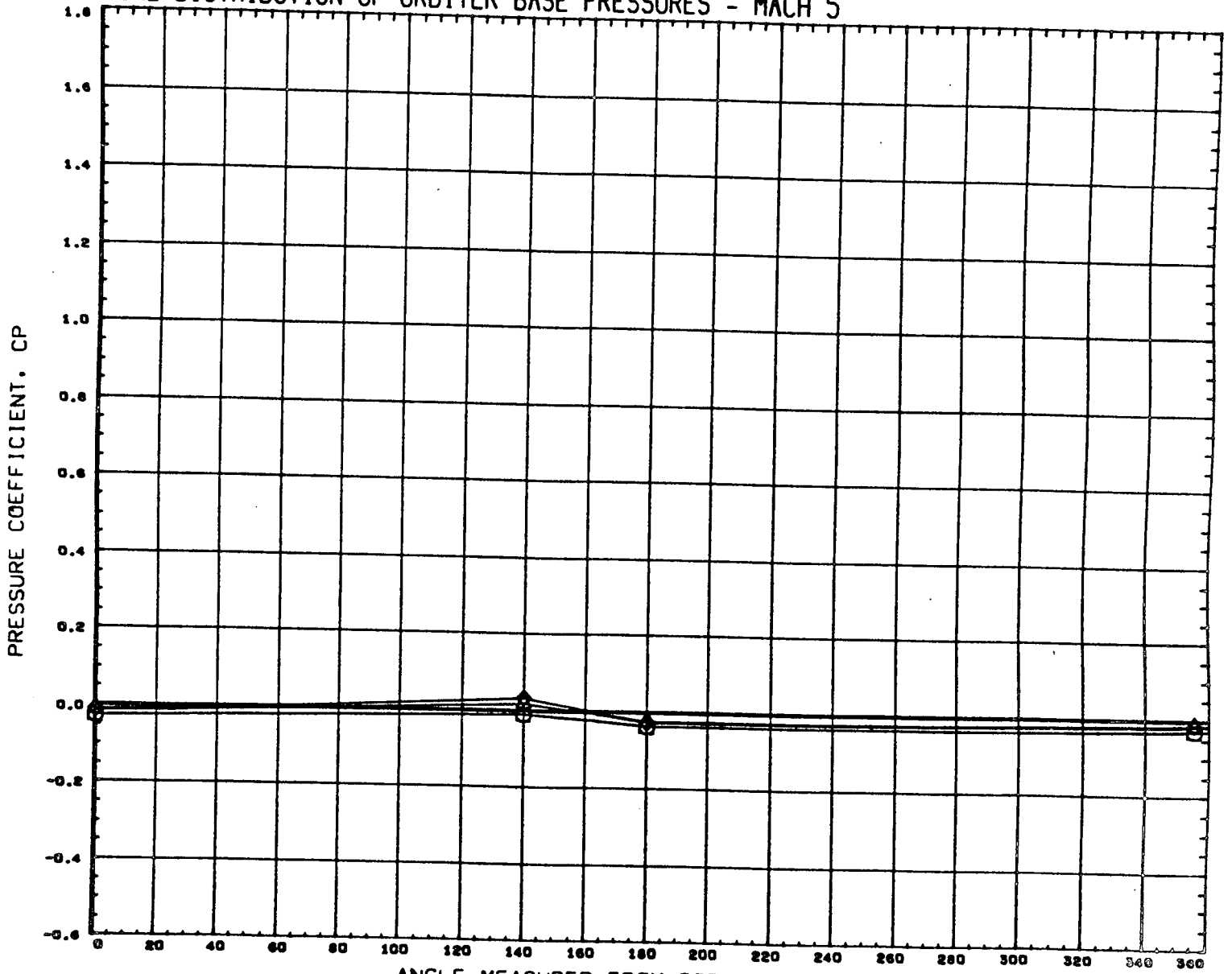
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8564•

PAGE 1075

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



ANGLE MEASURED FROM TOP CENTERLINE, THETA

SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHA2	4.930	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

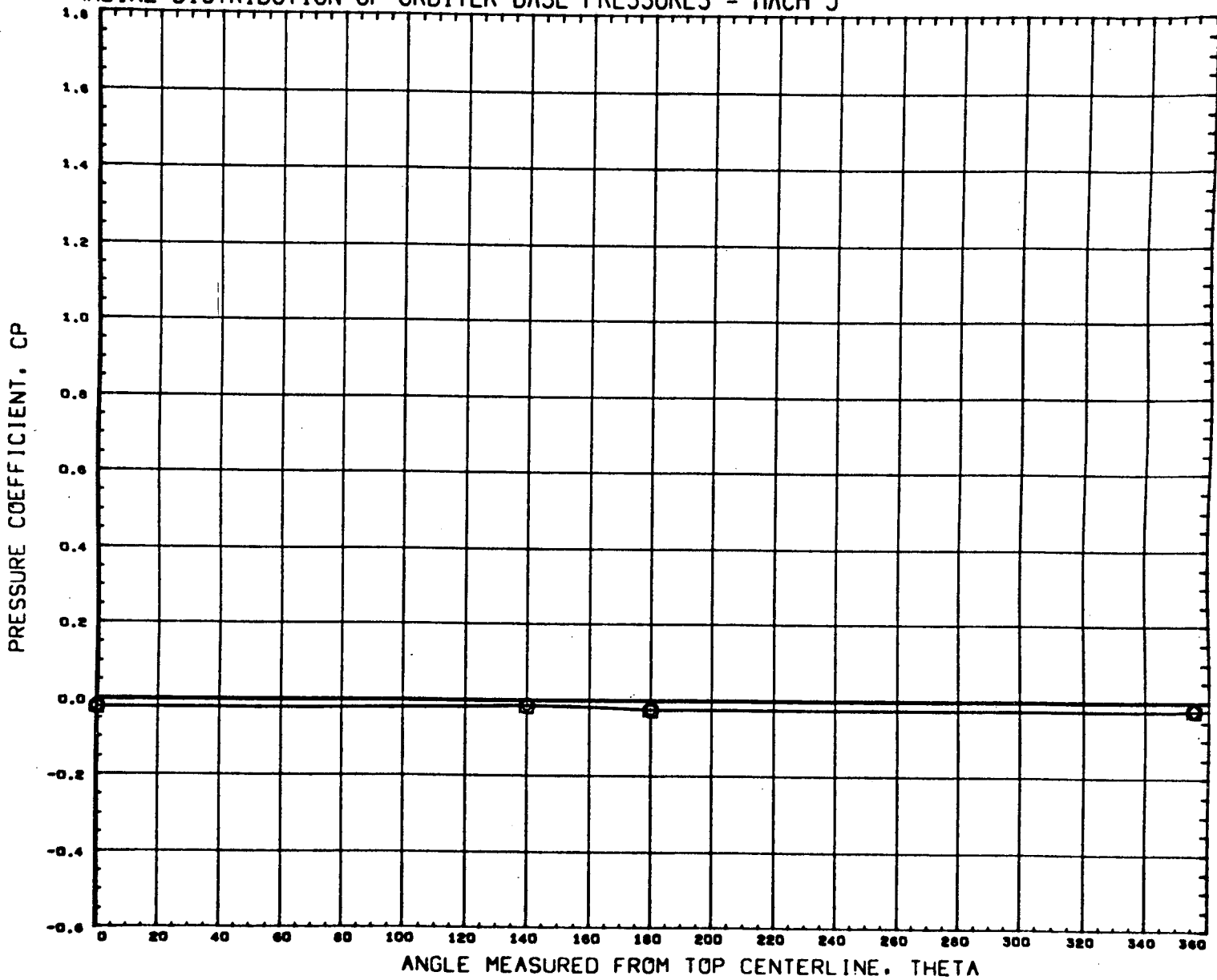
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8572•

PAGE 1076

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.930	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

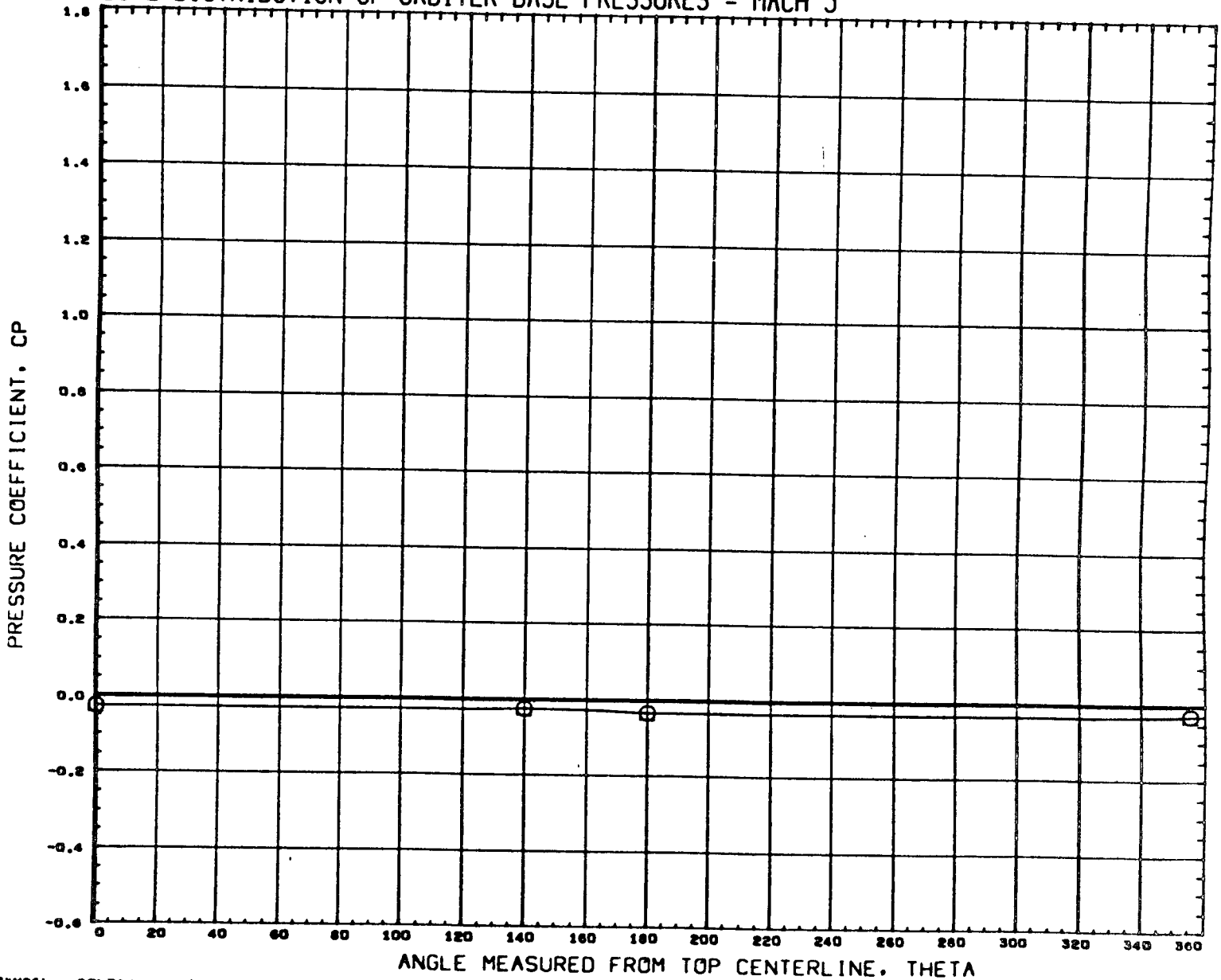
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8572•

PAGE 1077

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL \square DELTAX 0.520 X/L 1.000 DELTAZ 0.908

PARAMETRIC VALUES
 ALPHAB - 4.930 MACH 4.970
 ALPHA1 0.000 ORBPOW 0.000
 BSTPOW 0.000

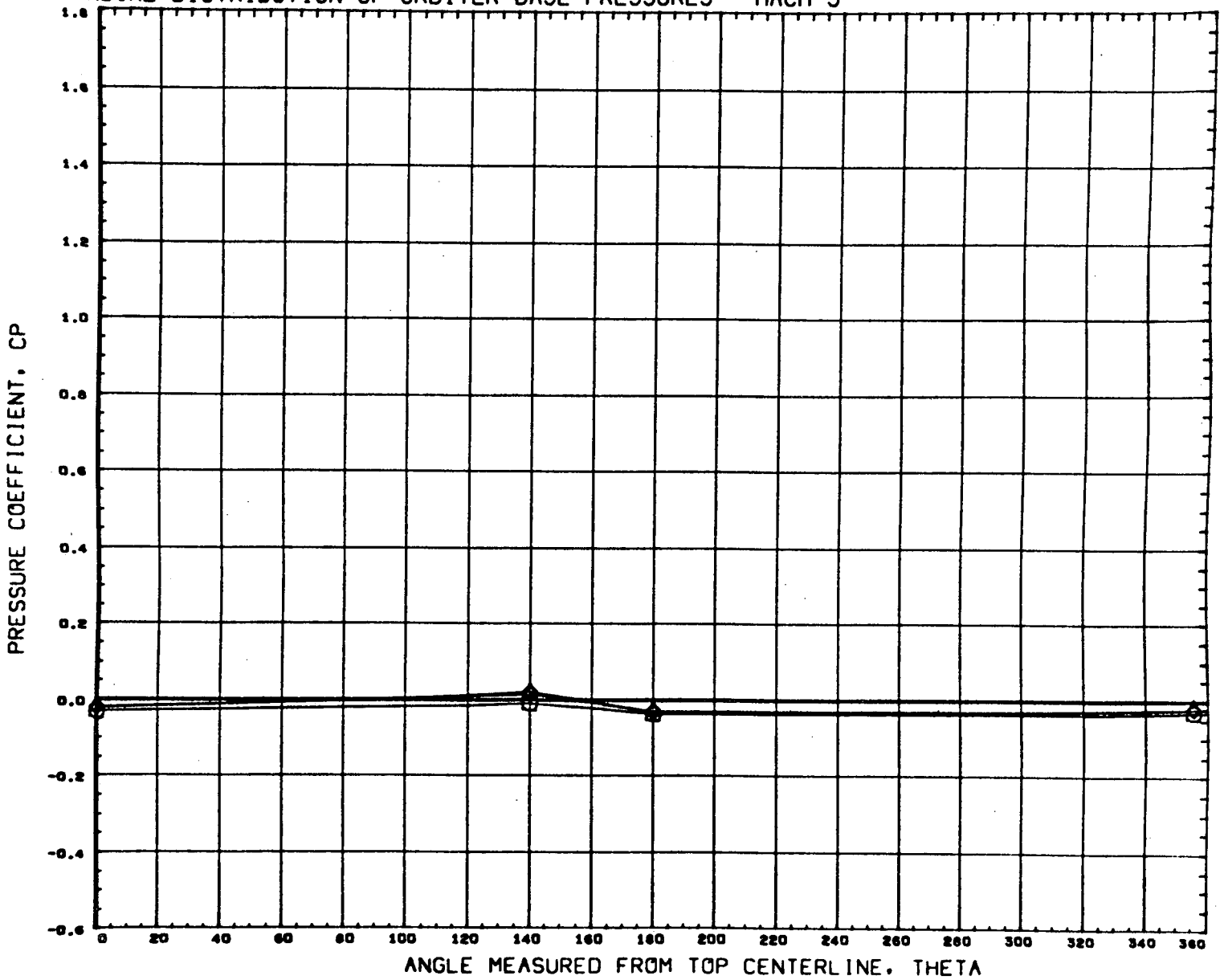
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8572•

PAGE 1078

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
△	0.144	1.000	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHA B	0.001	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BBTPOW	0.000		

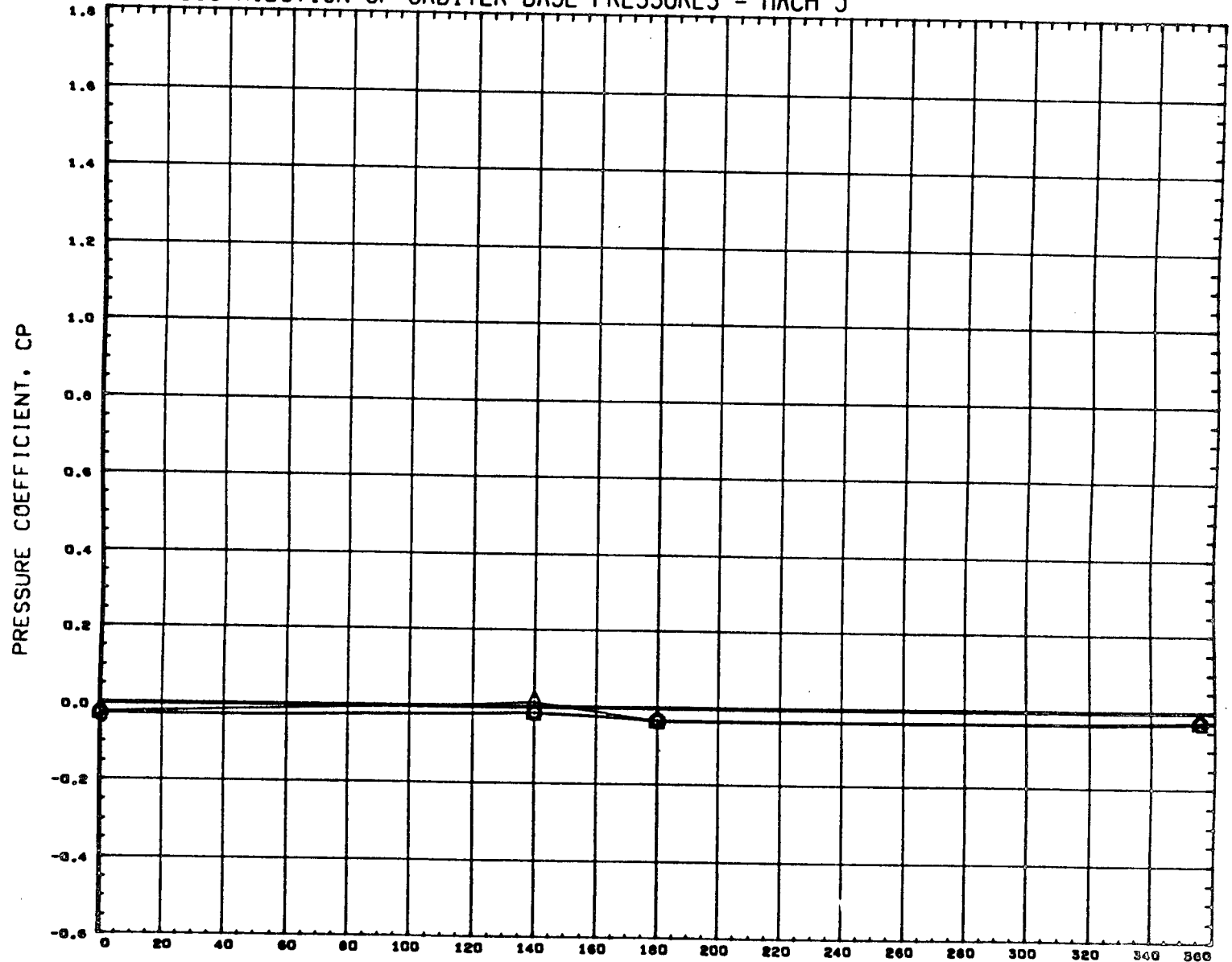
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8573•

PAGE 1079

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

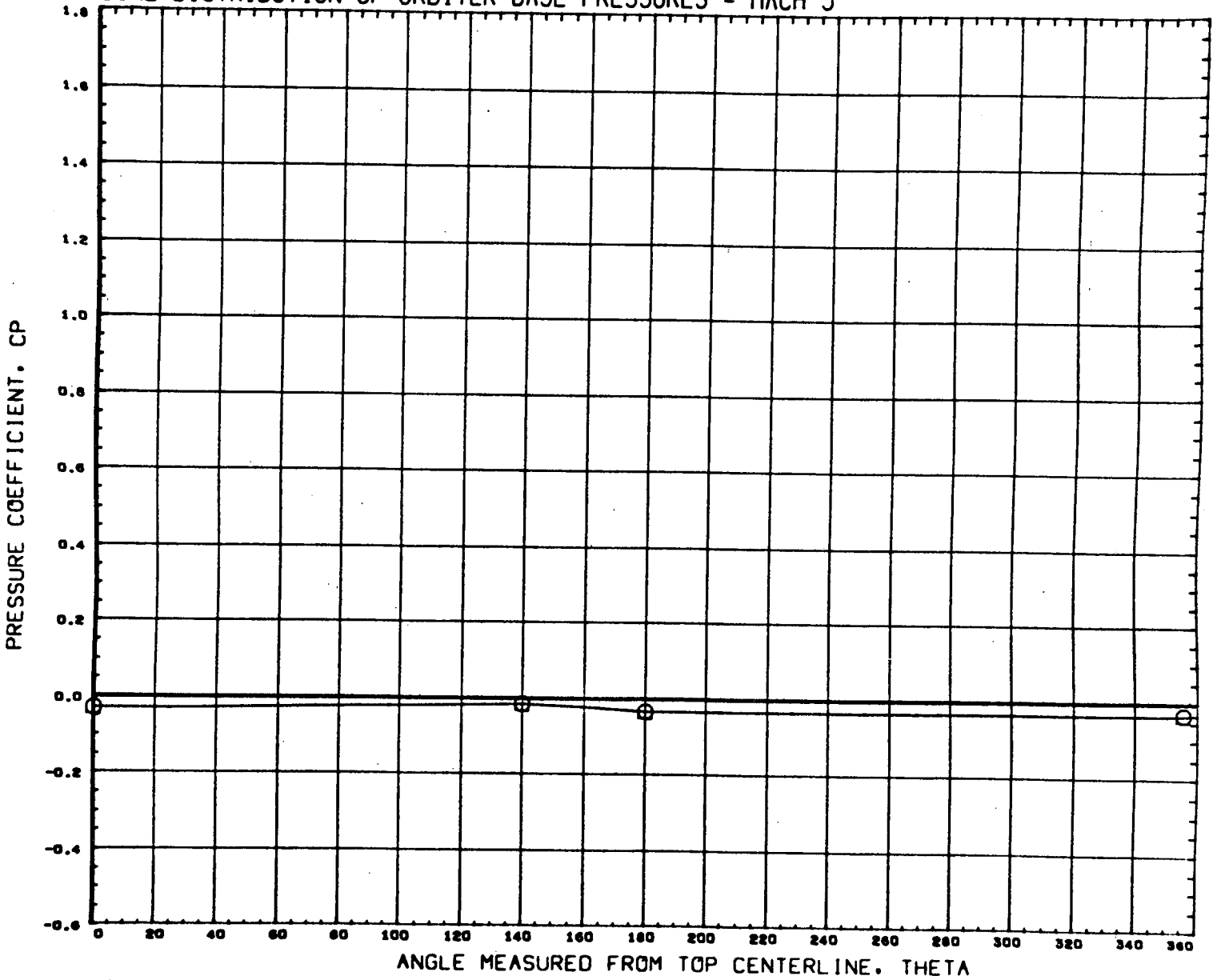


SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.151
△	0.109		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.001	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.520	1.000	0.908

PARAMETRIC VALUES			
ALPHA B	0.001	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

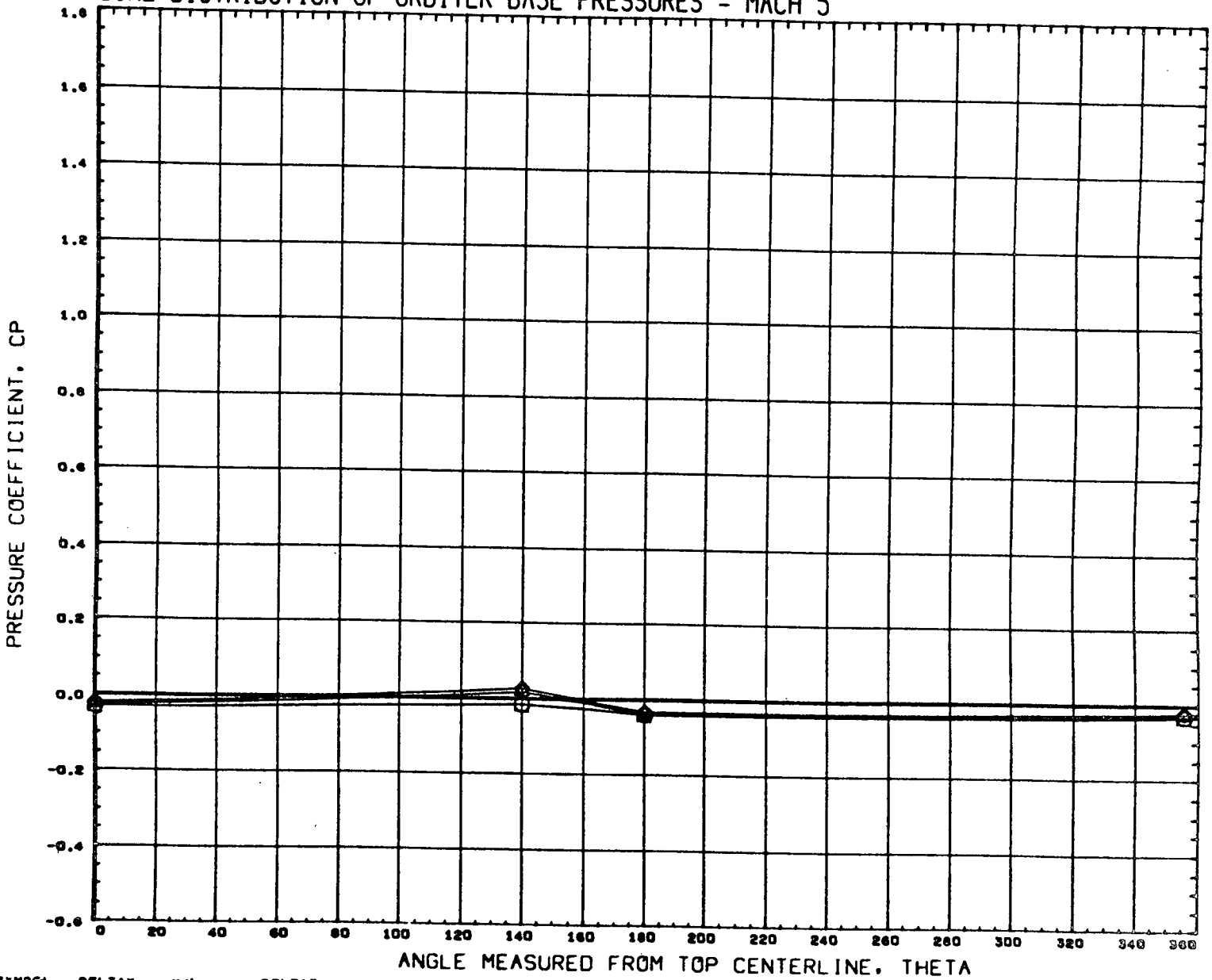
REFERENCE FILE

AECC VA1163 MDAC ORBITER (BASE)

•IT8573•

PAGE 1081

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

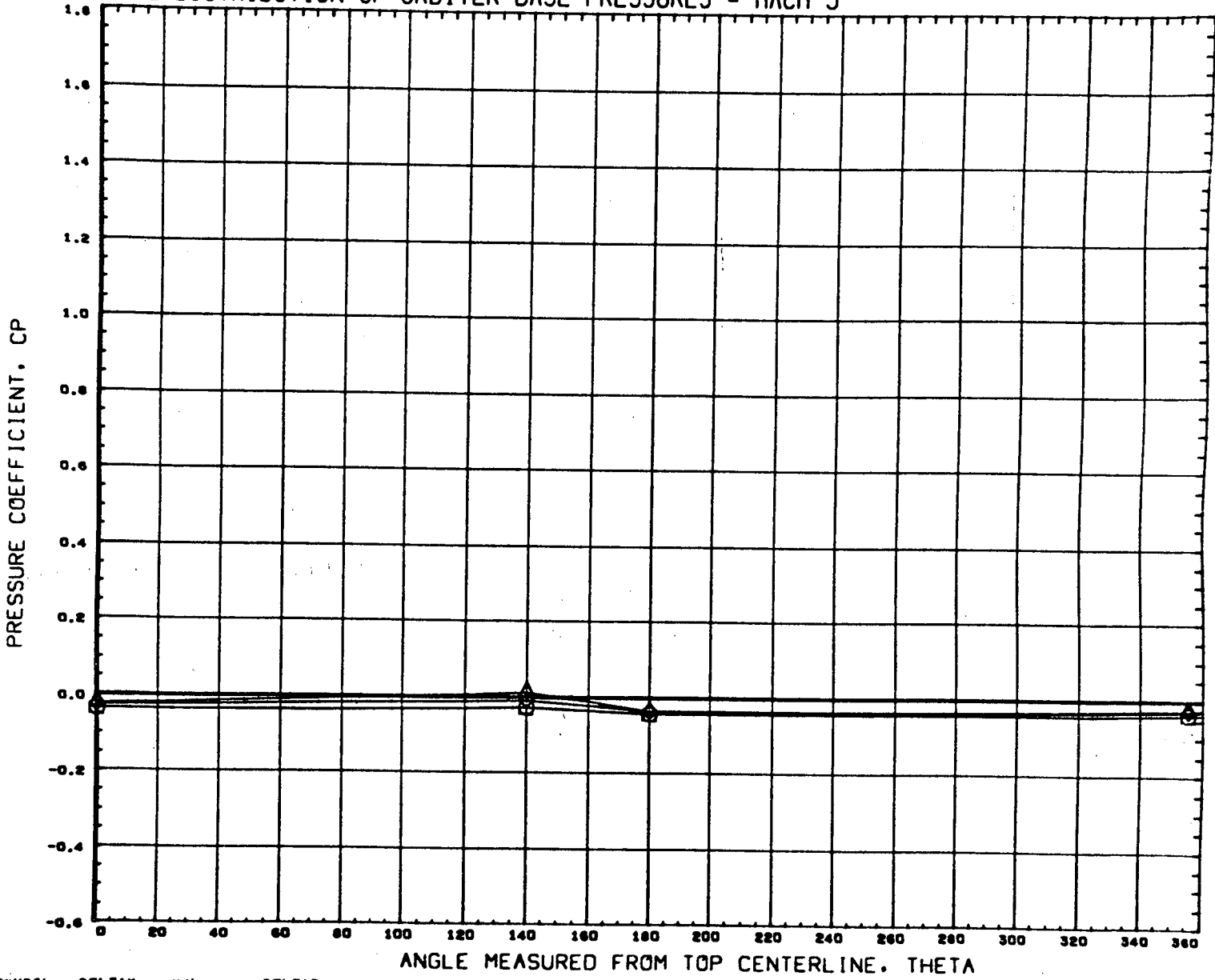
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8574•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

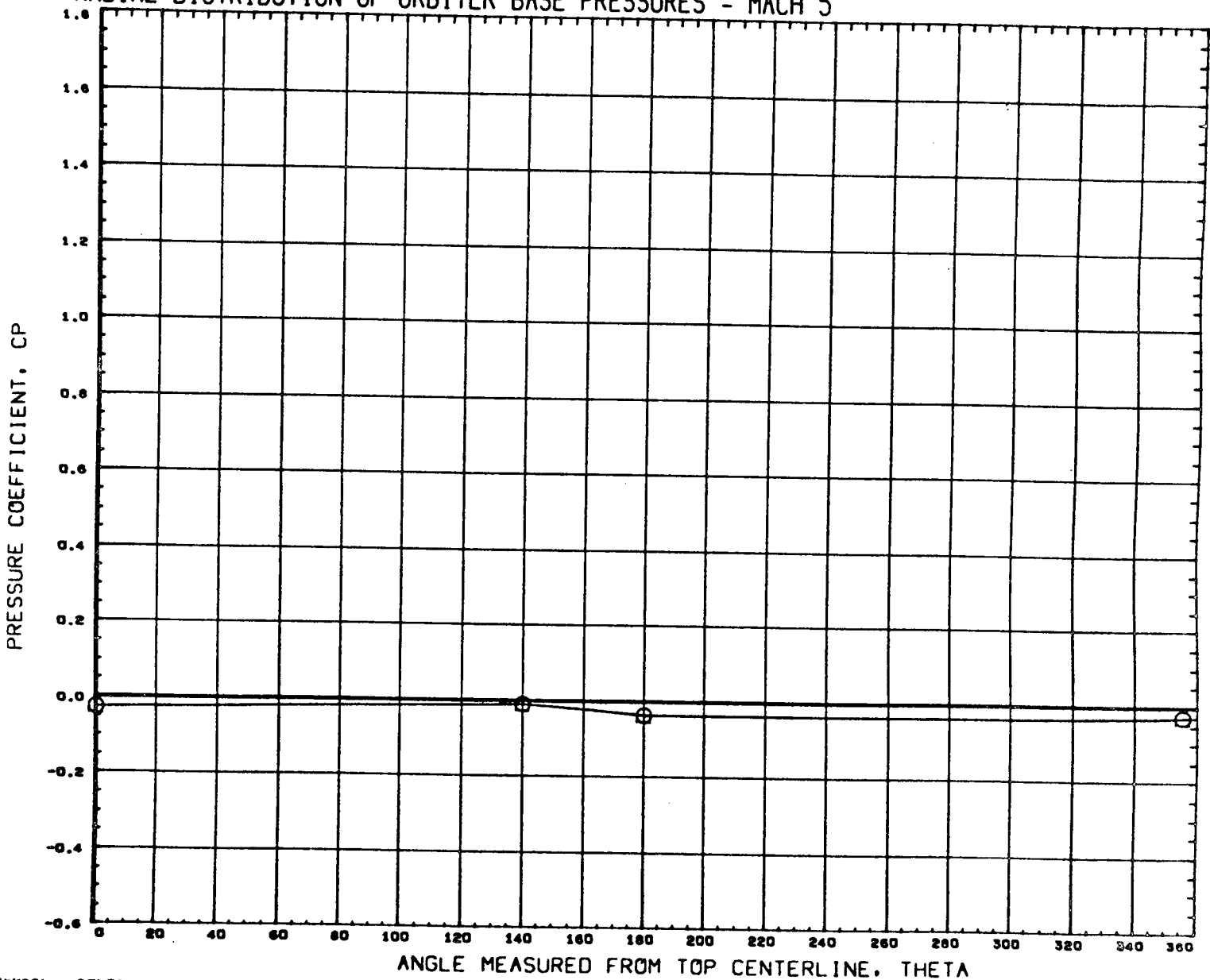


SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	4.994	MACH	4.970
ALPHA I	0.000	ORBPW	0.000
BSTPW	0.000		

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL \bigcirc DELTAX 0.920 X/L 1.000 DELTAZ 0.908

PARAMETRIC VALUES
 ALPHAB 4.994 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

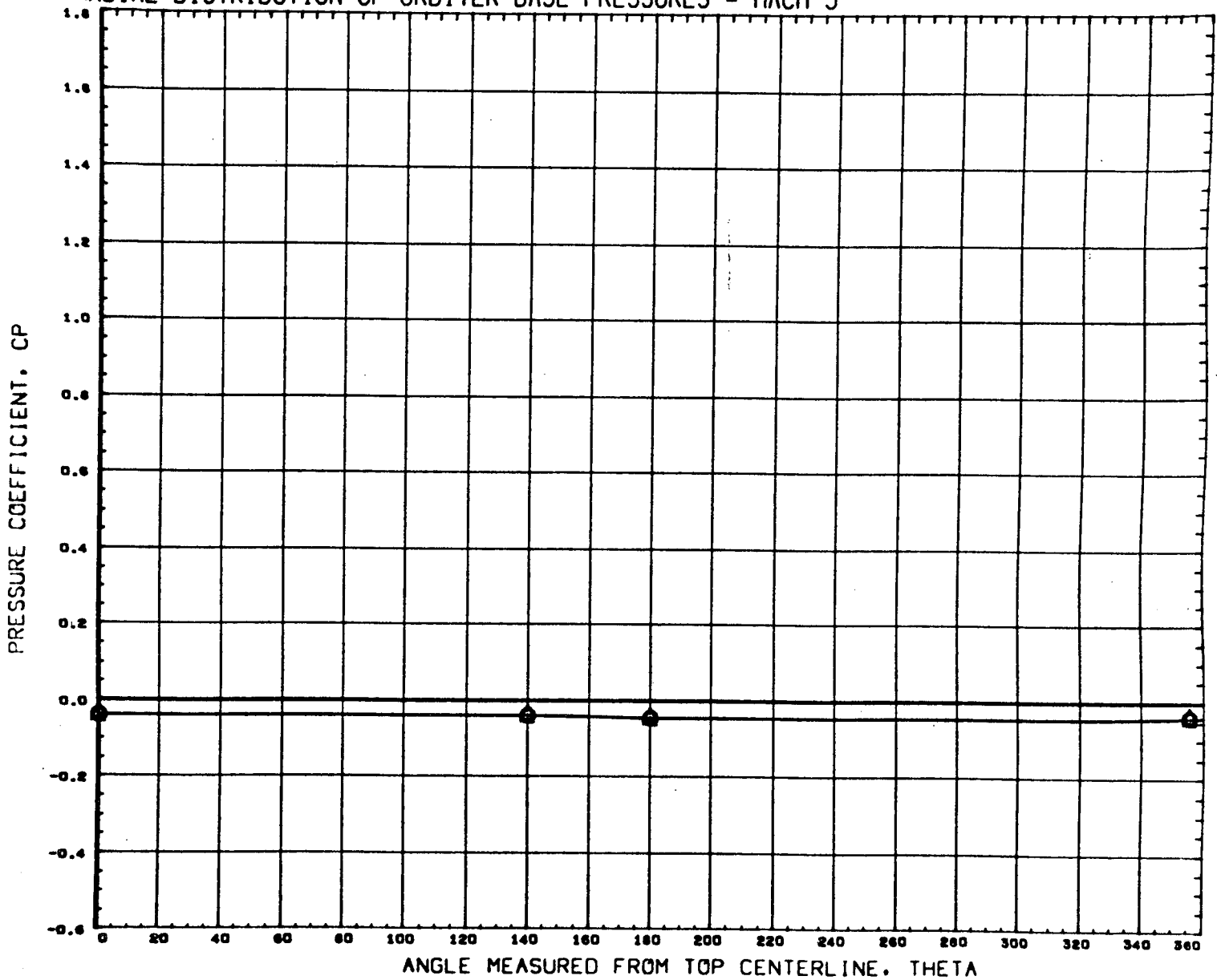
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8574•

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RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.120
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHA B	0.000	MACH	5.040
ALPHA I	0.000	ORBPW	0.000
BSTPW	0.000		

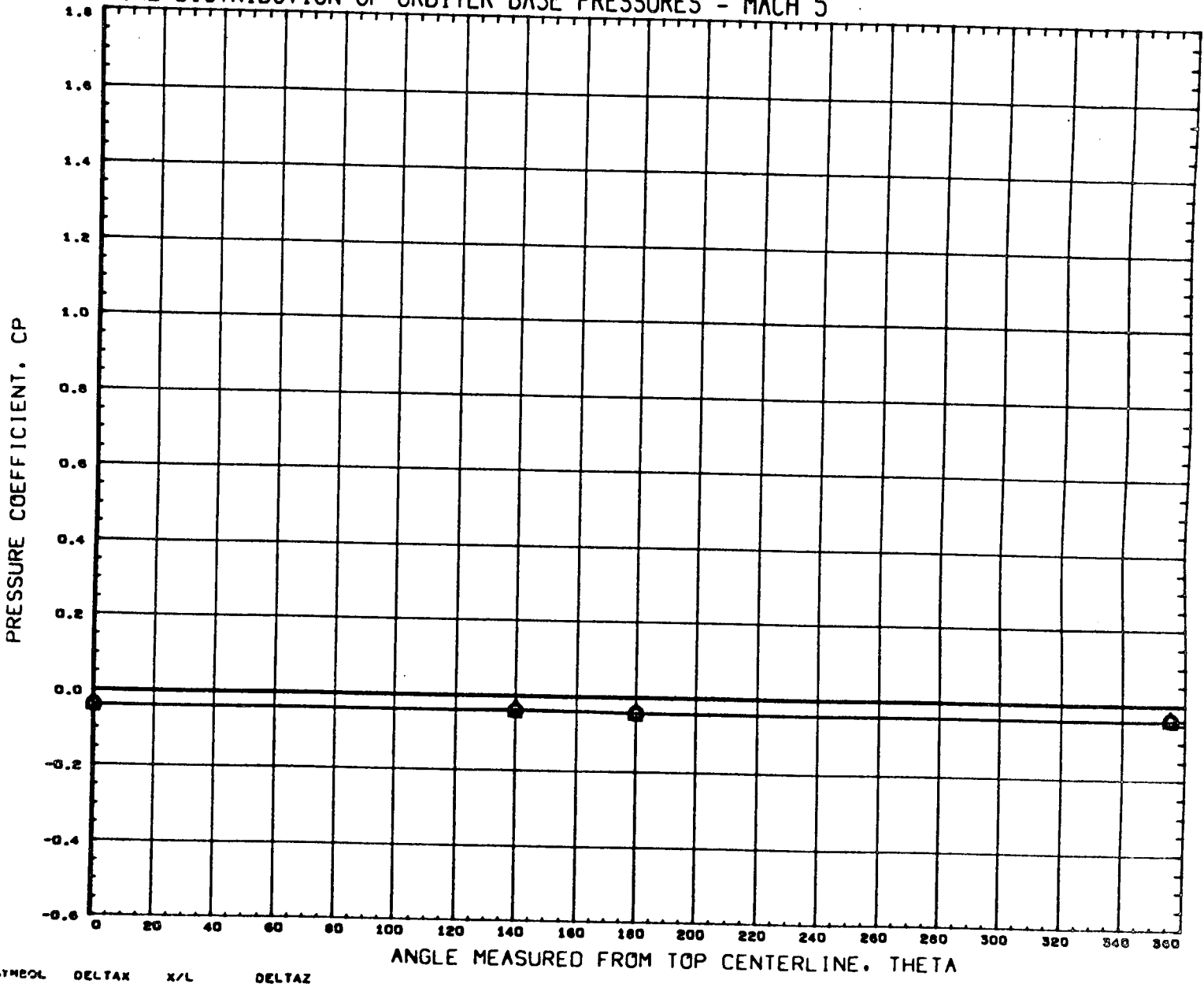
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8583•

PAGE 1085

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.144	1.000	0.151
△	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

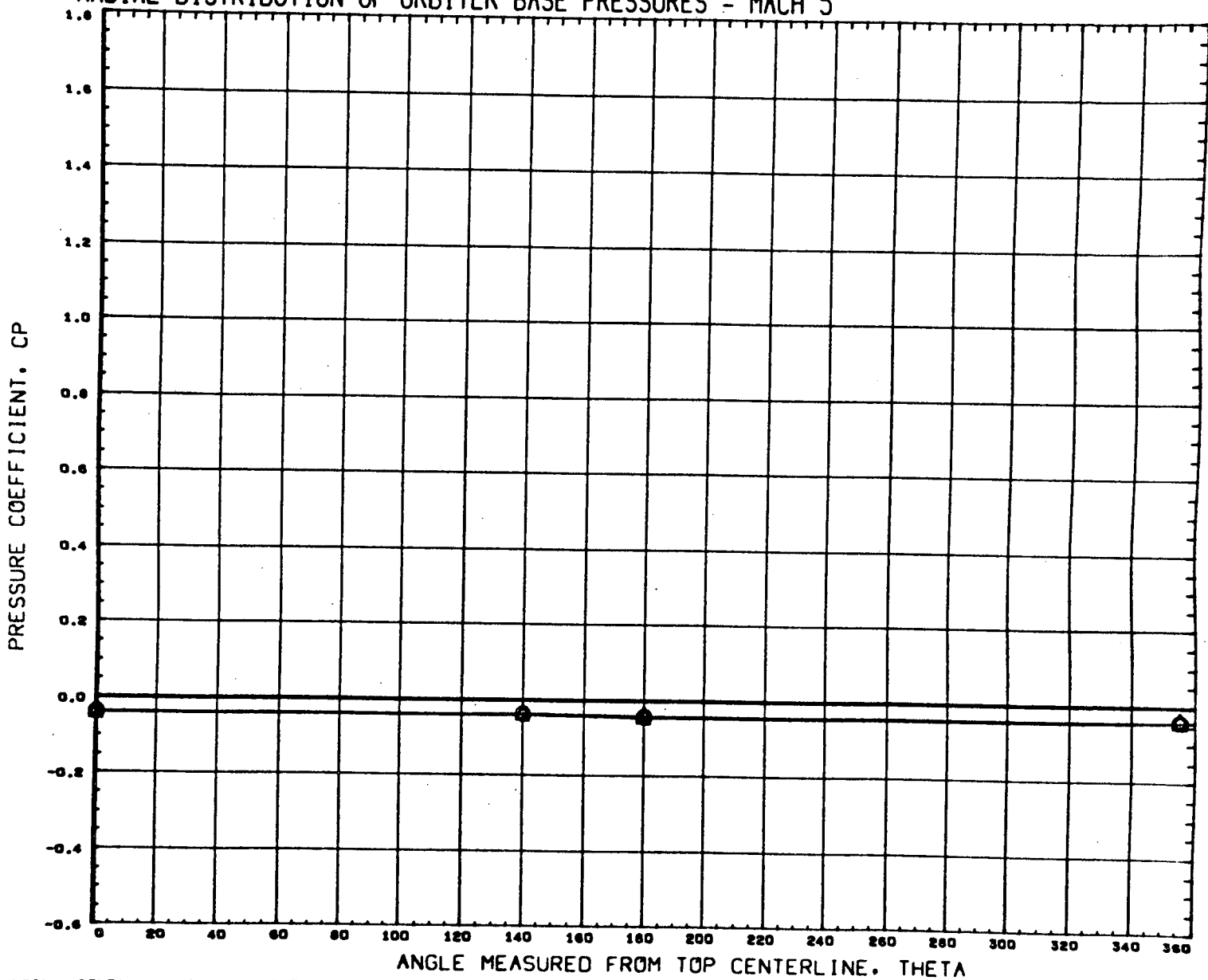
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8583•

PAGE 1086

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
△	0.144	1.000	0.226
◇	0.103		
◇	0.226		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	5.040
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

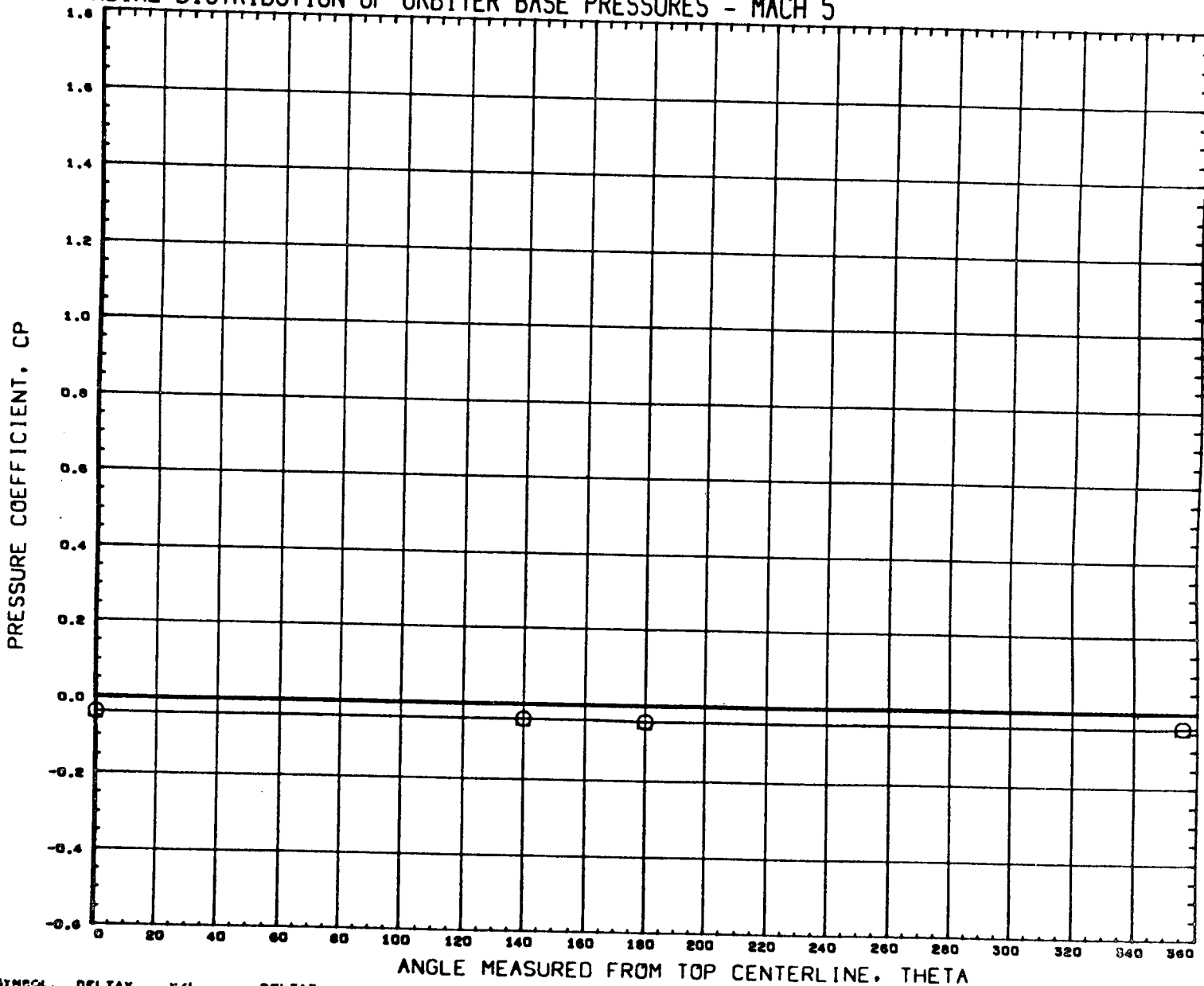
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8583•

PAGE 1087

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 ○ 0.320 1.000 0.906

PARAMETRIC VALUES
 ALPHAB 0.000 MACH 5.040
 ALPHA1 0.000 ORBPOW 0.000
 BSTPOW 0.000

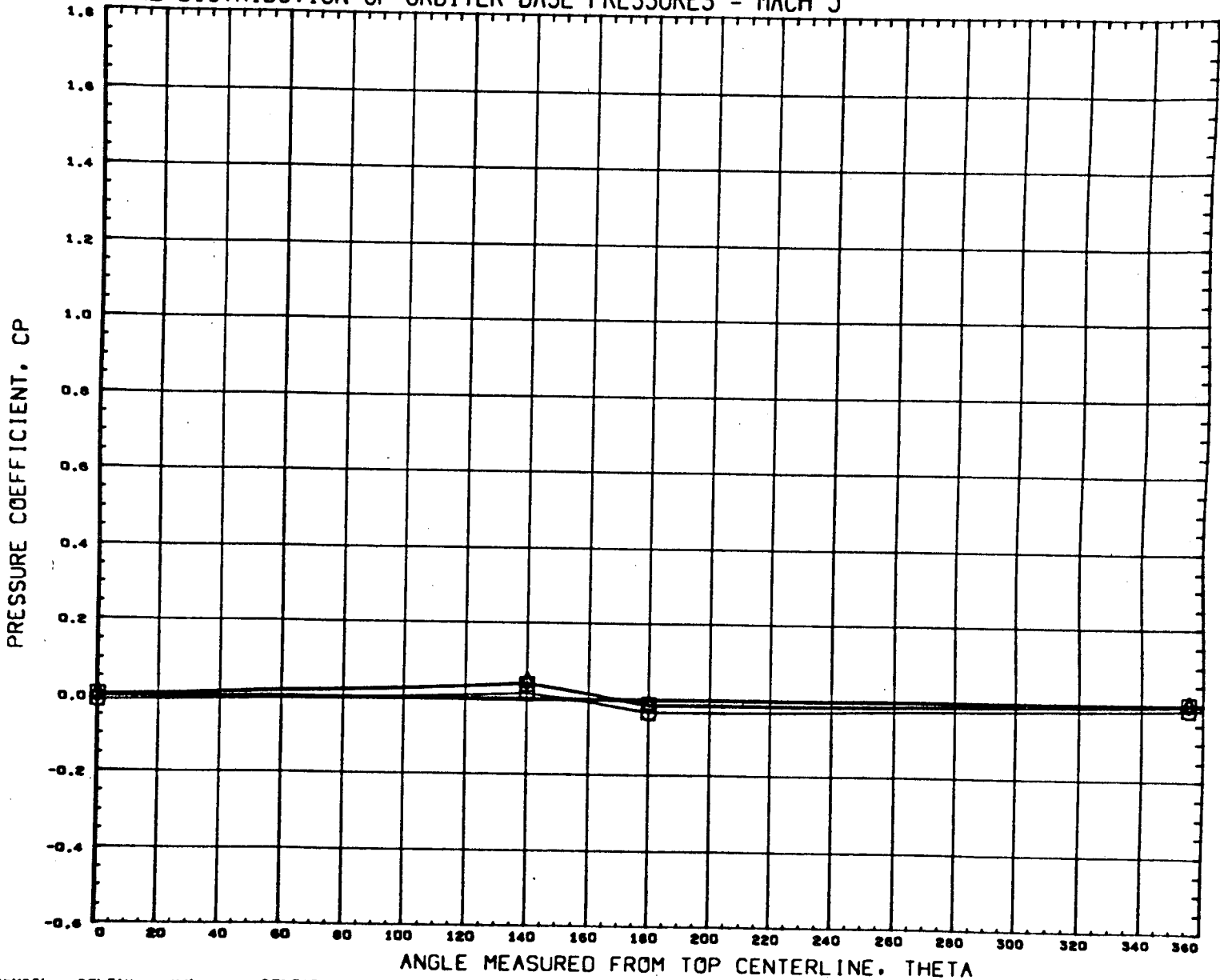
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8583•

PAGE 1088

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.179	1.000	0.106
◇	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAS	9.982	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

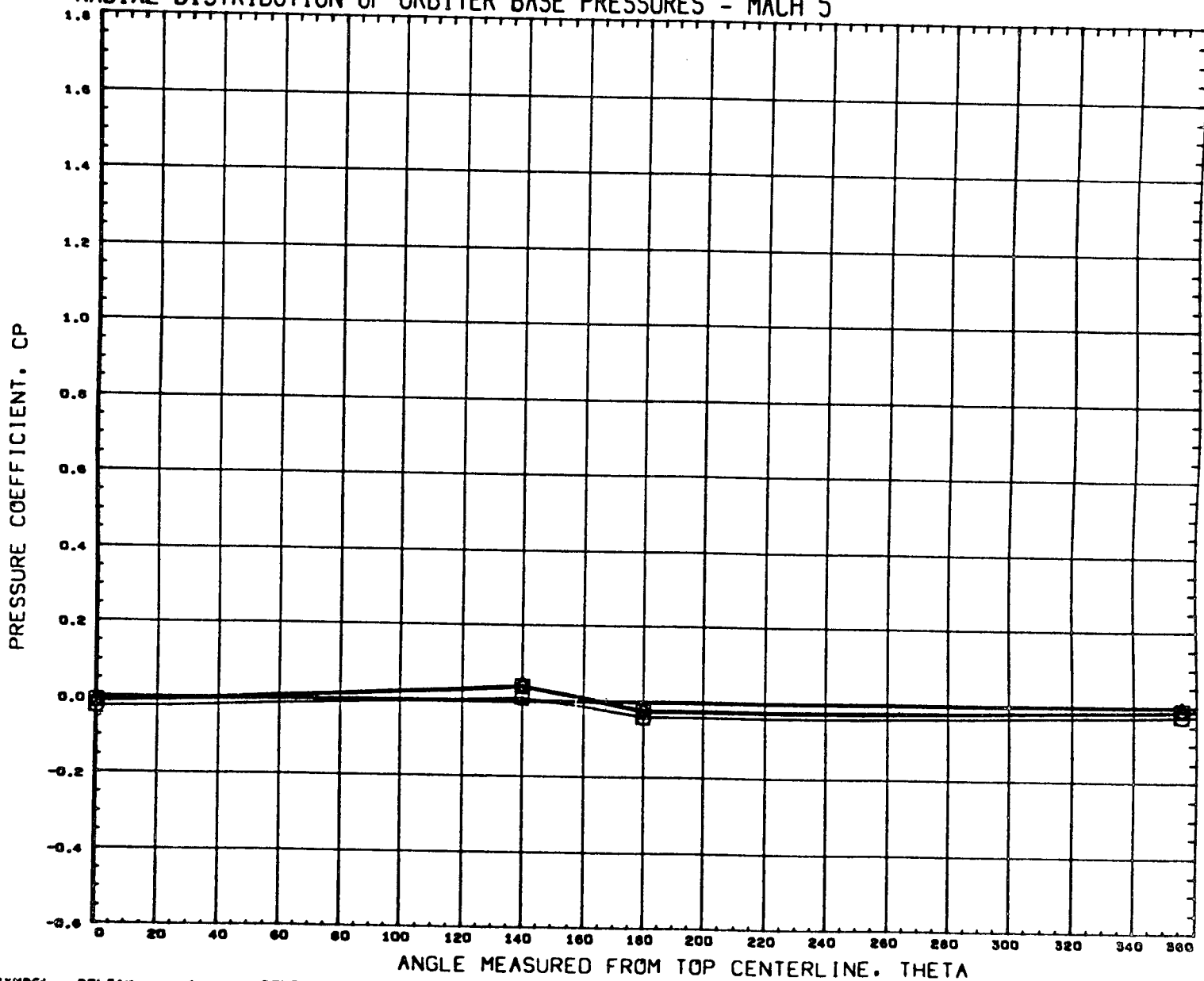
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8591•

PAGE 1089

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.179	1.000	0.106
△	0.041		
◇	0.103		
□	0.104		

PARAMETRIC VALUES			
ALPHAB	4.957	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

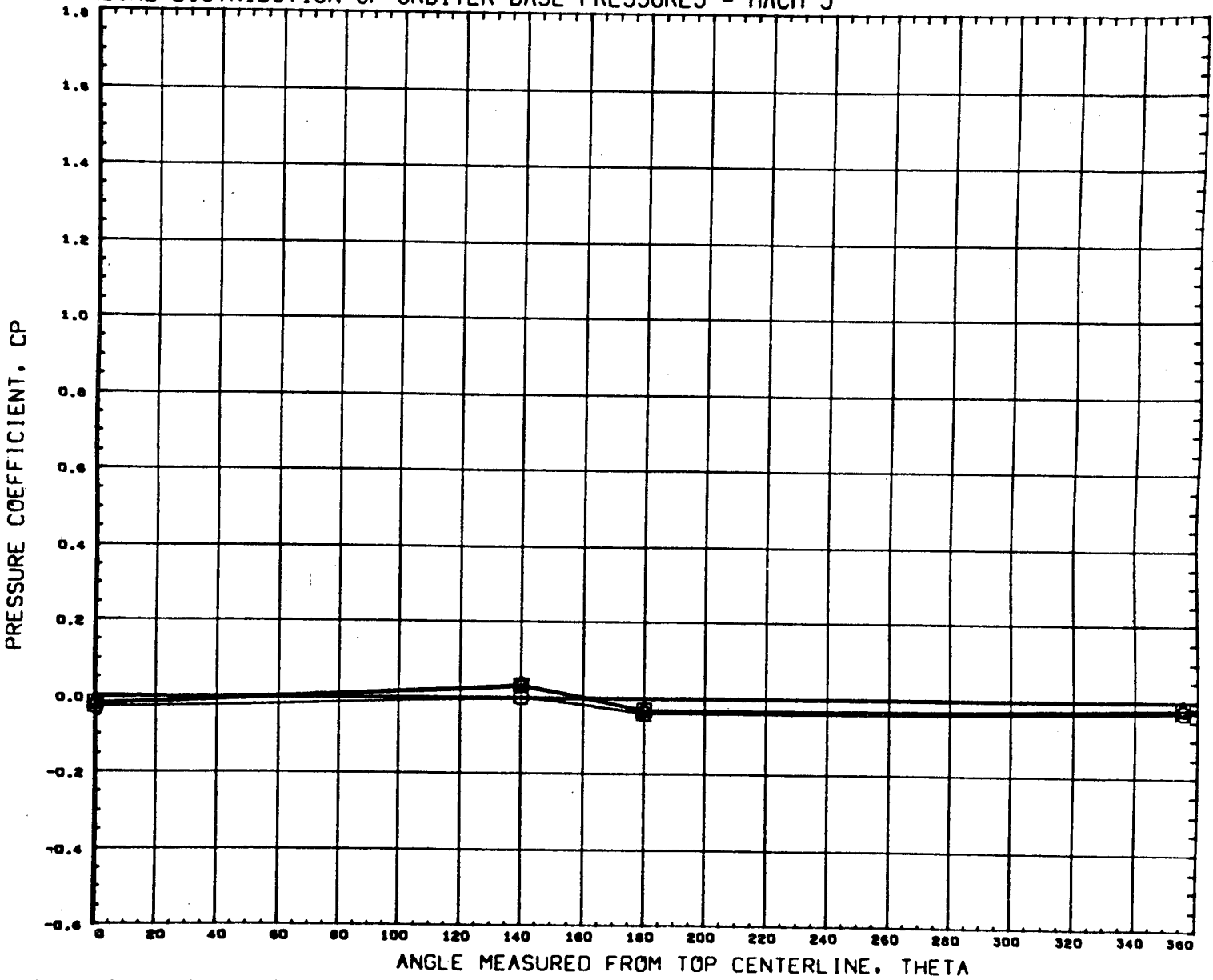
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•1T8592•

PAGE 1090

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.179	1.000	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHA B	0.000	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

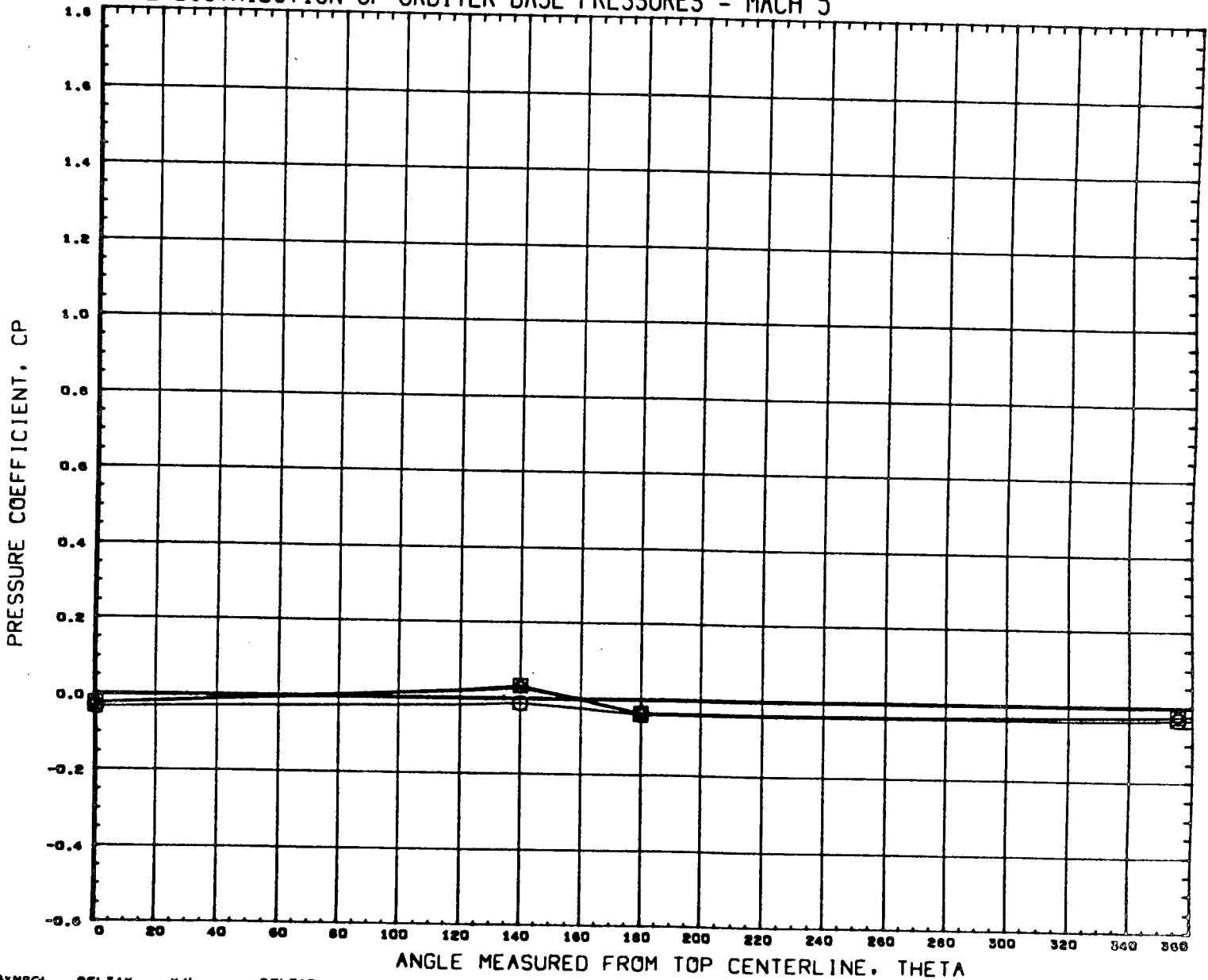
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8593•

PAGE 1091

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.179	1.000	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHA B	5.035	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

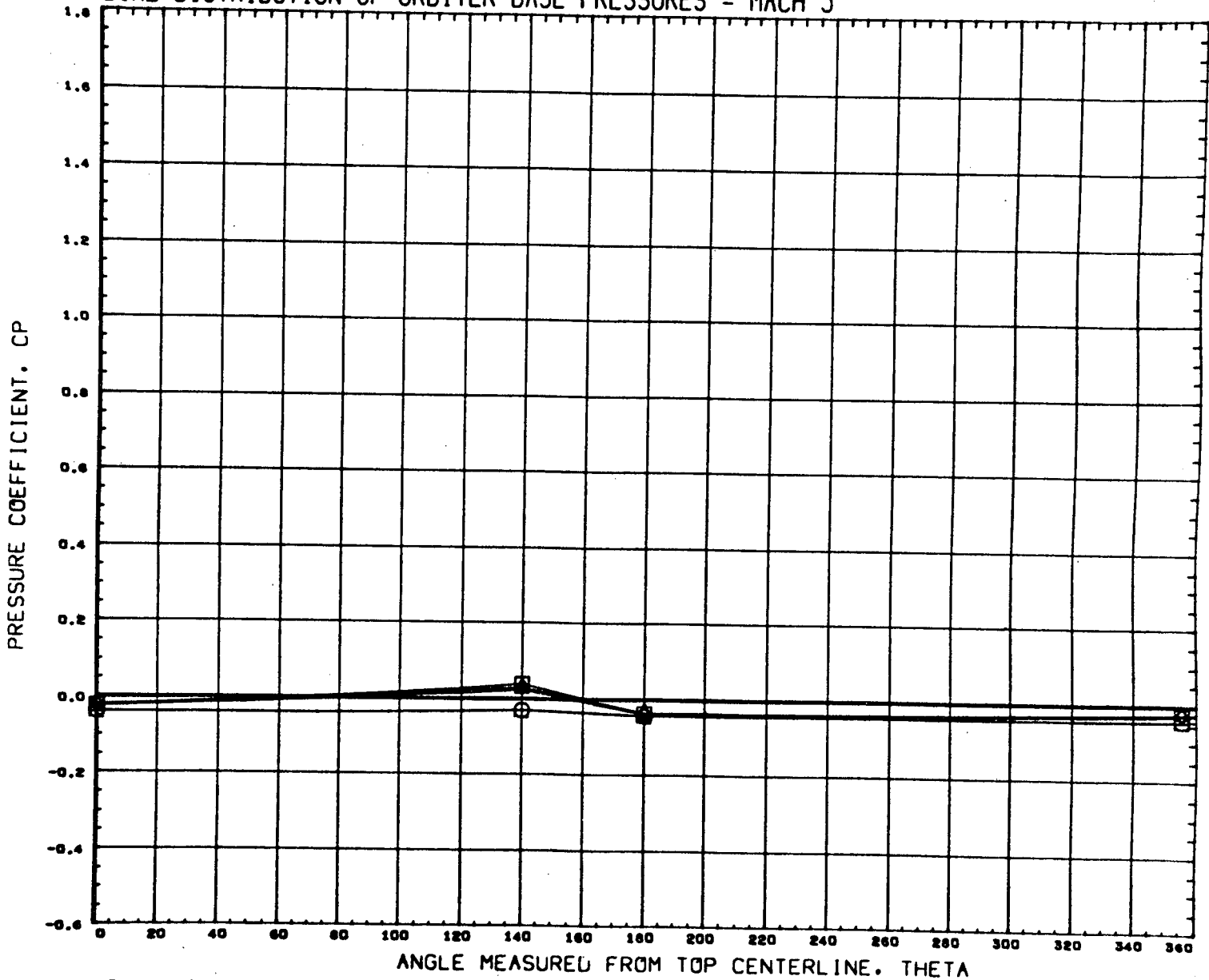
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•118594•

PAGE 1092

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.179	1.000	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.992	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

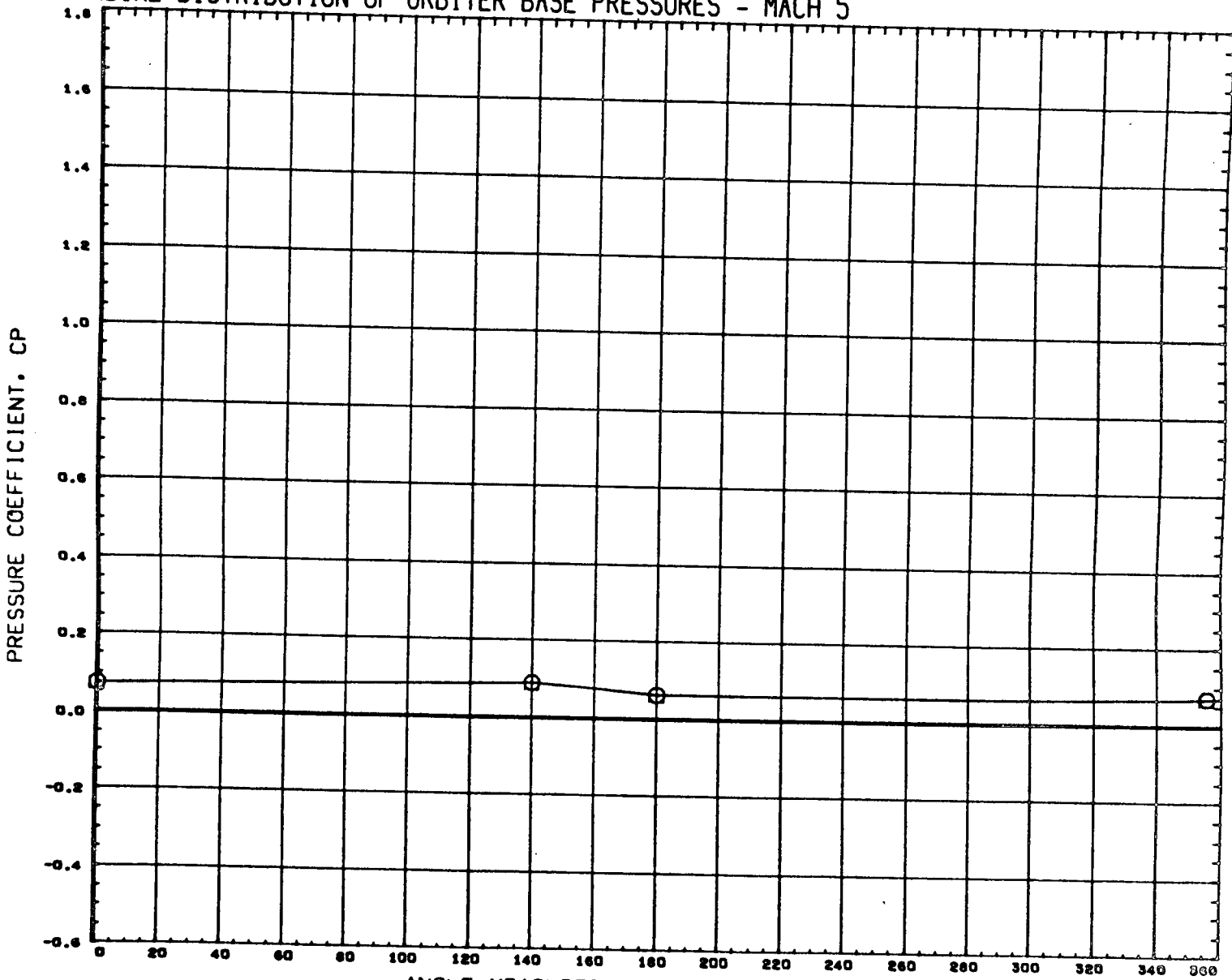
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8595•

PAGE 1093

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 ⊗ - 0.179 1.000 0.106

PARAMETRIC VALUES
 ALPHAB - 9.980 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 100.000

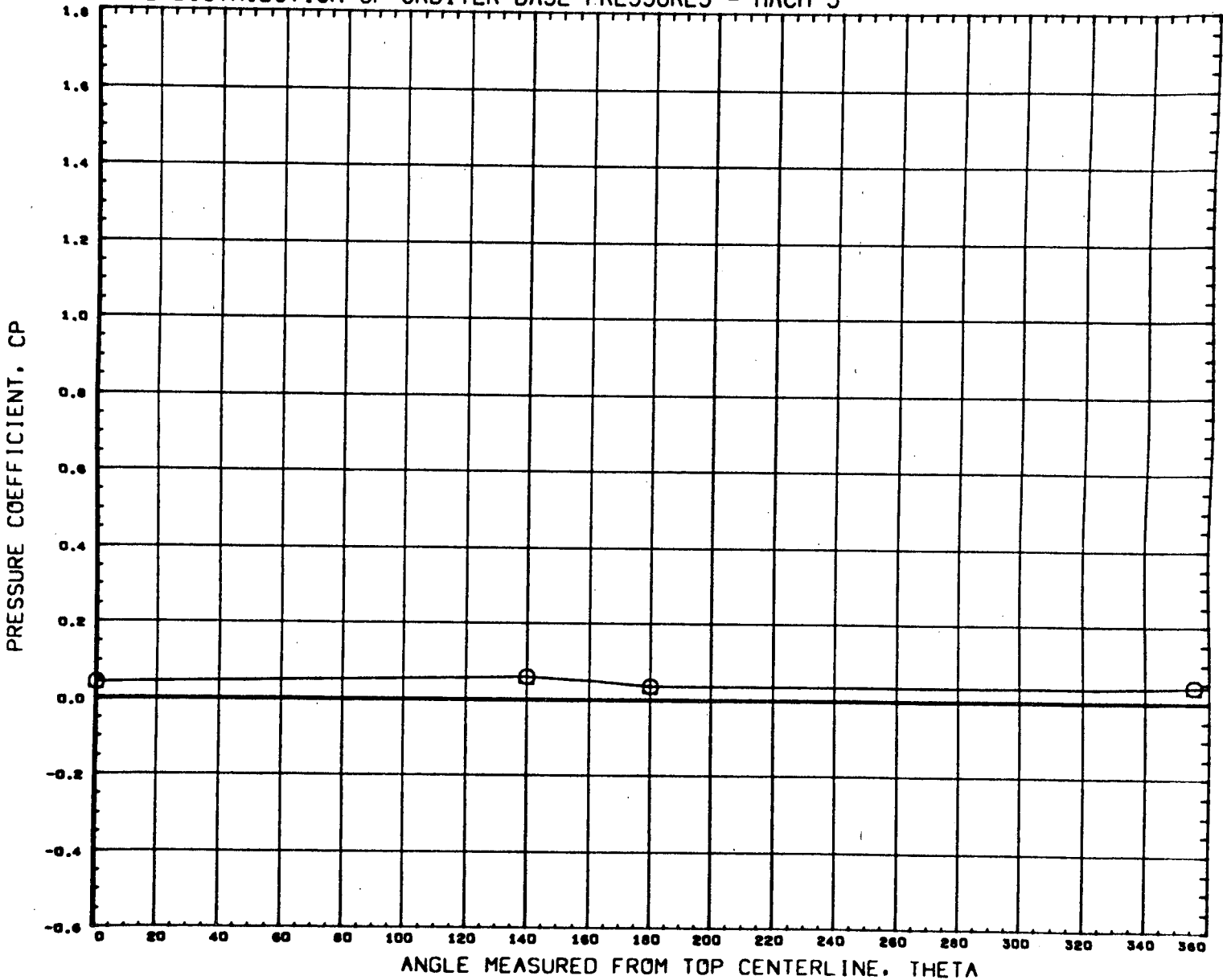
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8601•

PAGE 1094

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 ○ - 0.179 1.000 0.106

PARAMETRIC VALUES
 ALPHAB - 4.960 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 BSTPOW 100.000

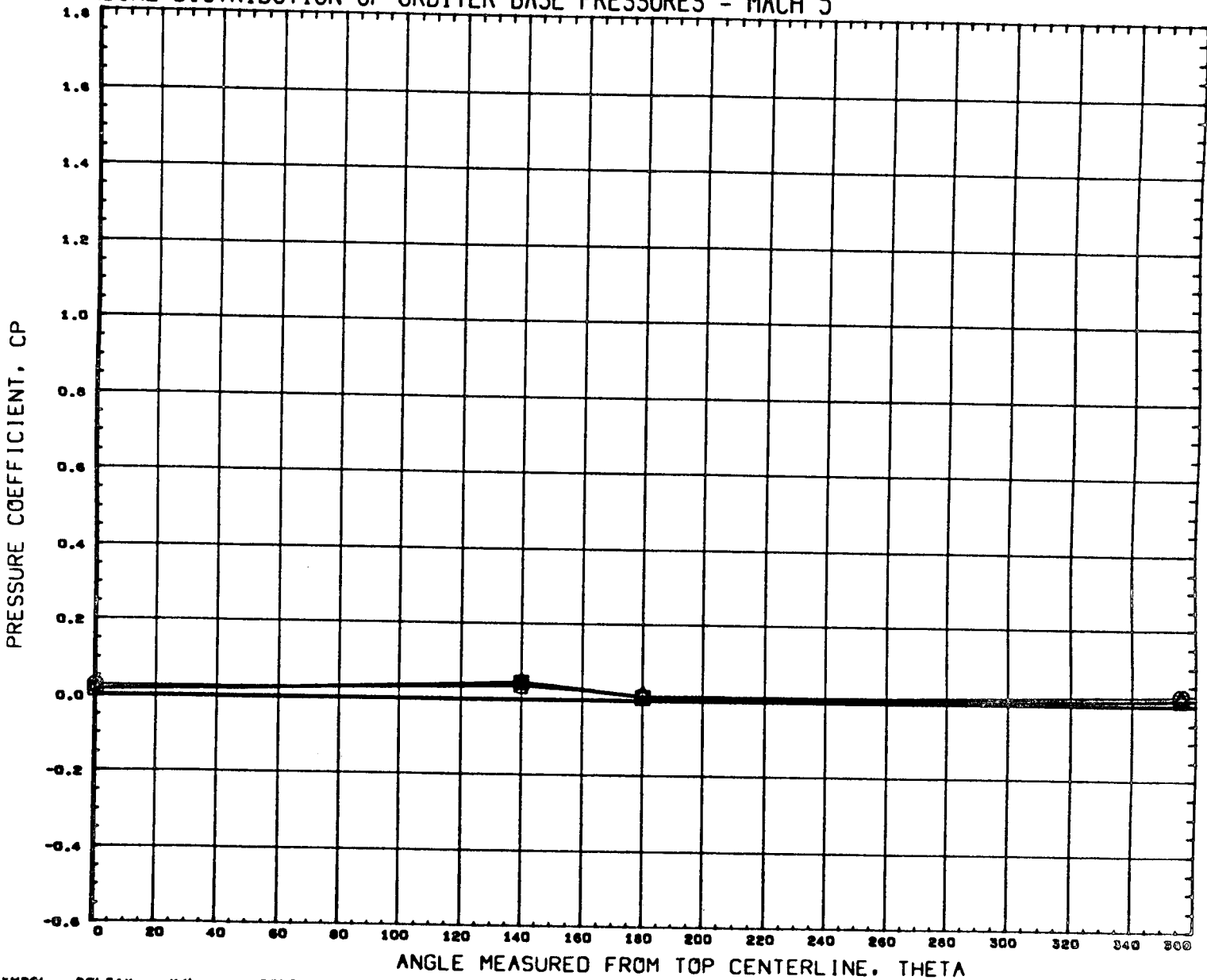
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AEDC VA1163 MDAC ORBITER (BASE)

•IT8602•

PAGE 1095

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.179	1.000	0.106
△	0.041		
◇	0.103		
□	0.104		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA1	0.000	ORBPOW	100.000
BSTPOW	100.000		

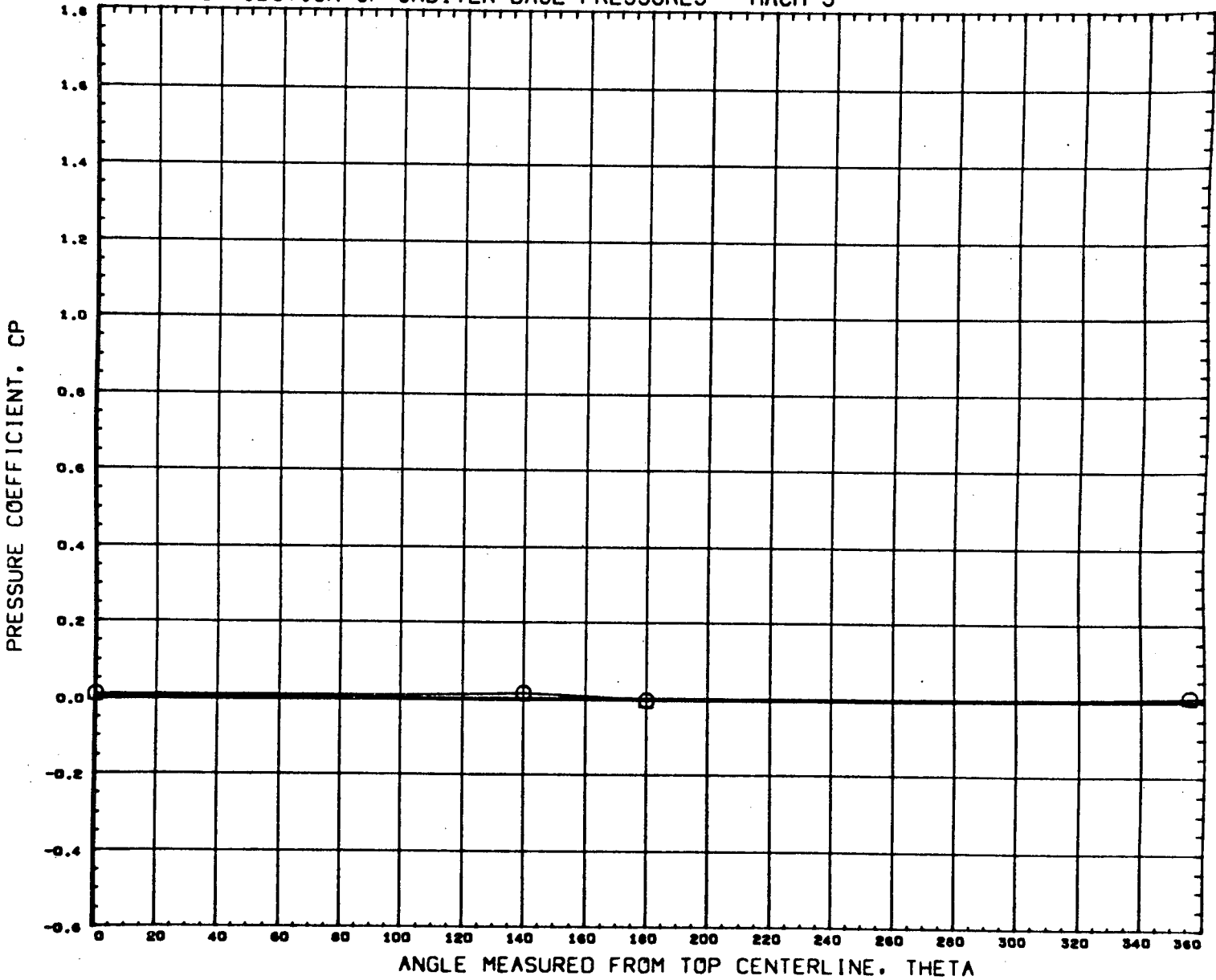
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8603•

PAGE 1096

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 ○ - 0.179 1.000 0.106

PARAMETRIC VALUES
 ALPHAB 5.040 MACH 4.970
 ALPHAI 0.000 ORBPOW 100.000
 SSTPOW 100.000

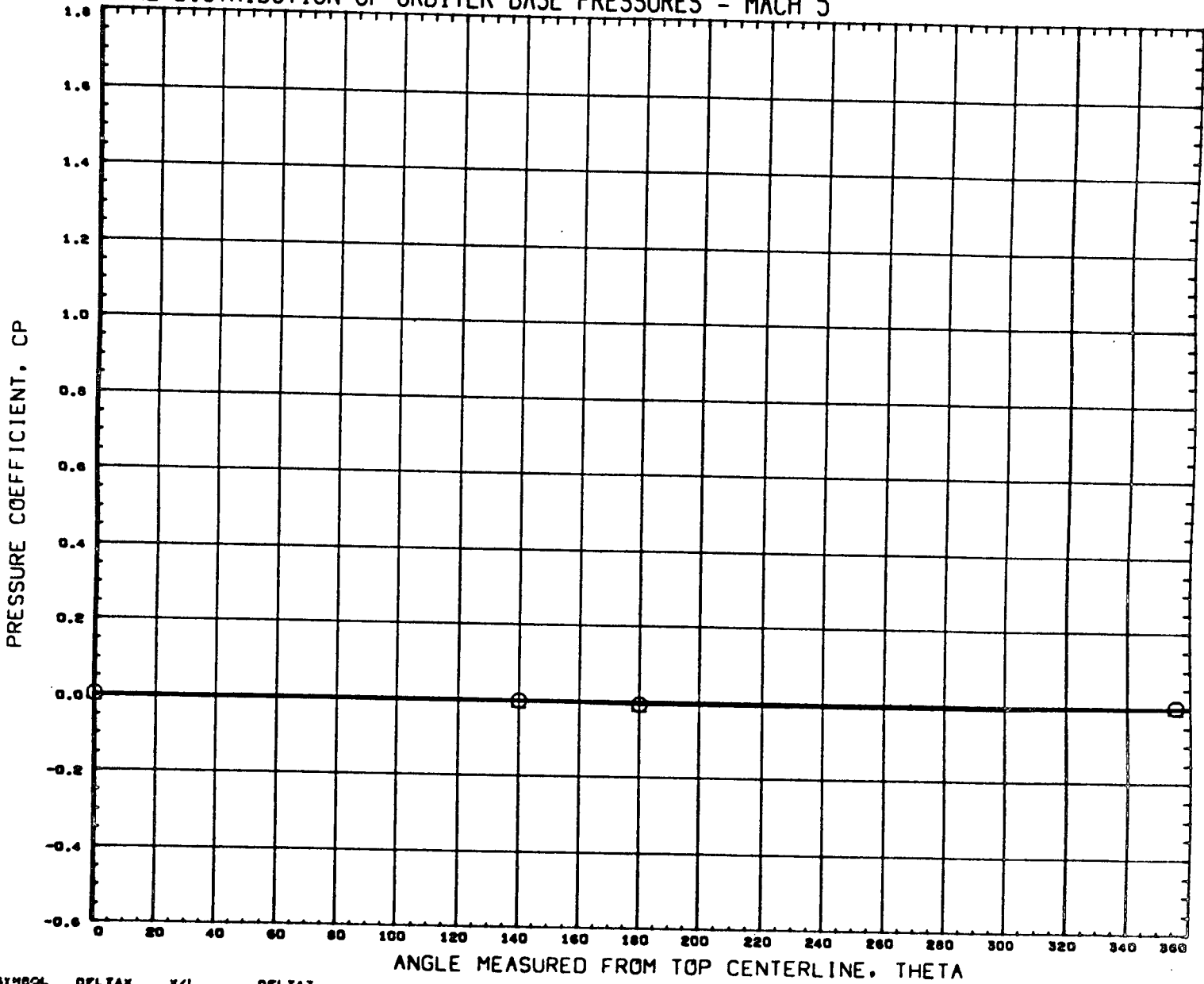
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AEDC VA1163 MDAC ORBITER (BASE)

•IT8604•

PAGE 1097

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 ○ - 0.179 1.000 0.106

PARAMETRIC VALUES
 ALPHAB 9.990 MACH 4.970
 ALPHAT 0.000 ORBPOW 100.000
 BSTPCW 100.000

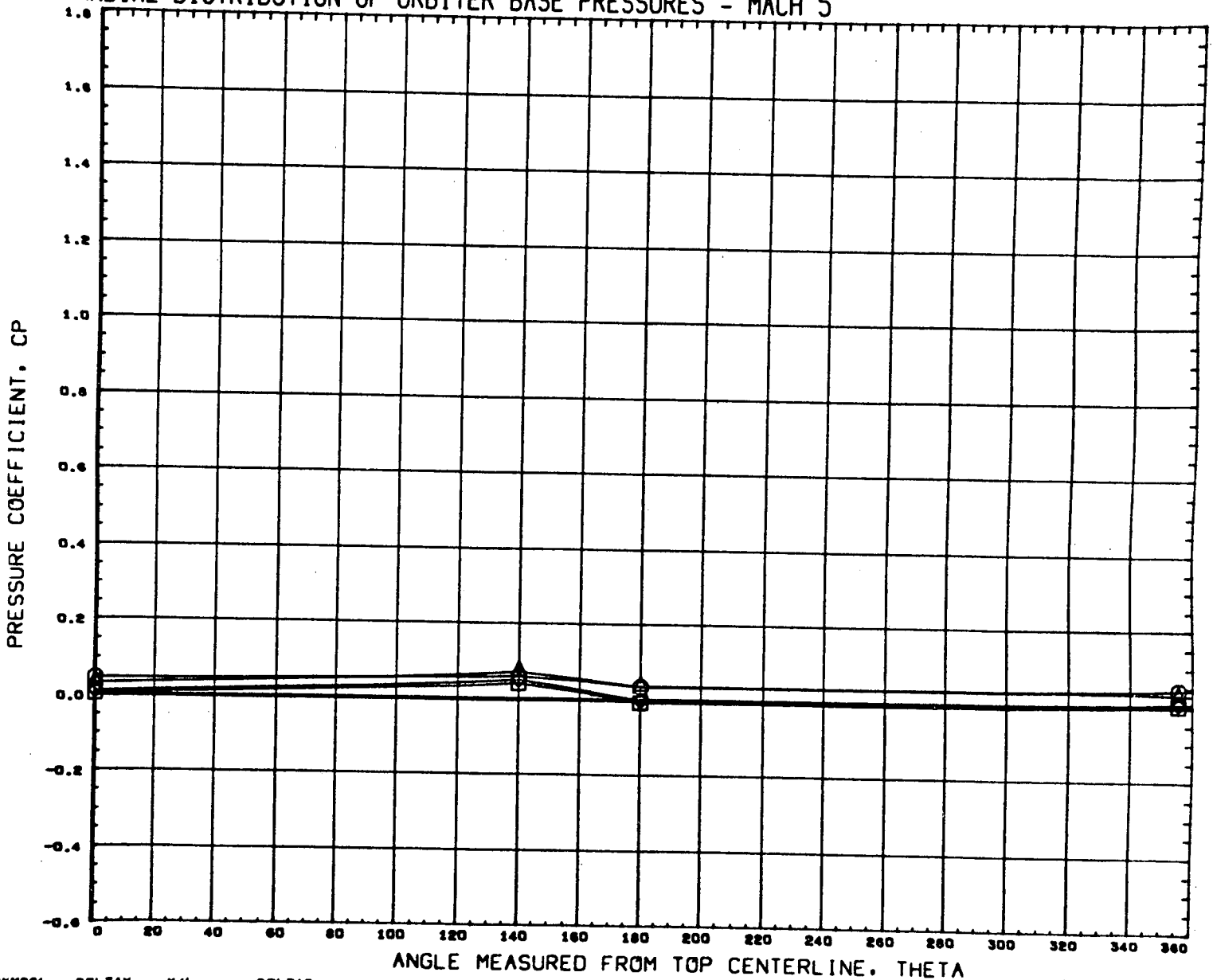
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8605•

PAGE 1098

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.179	1.000	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.980	MACH	4.970
ALPHA1	0.000	ORSPW	0.000
BSTPW	100.000		

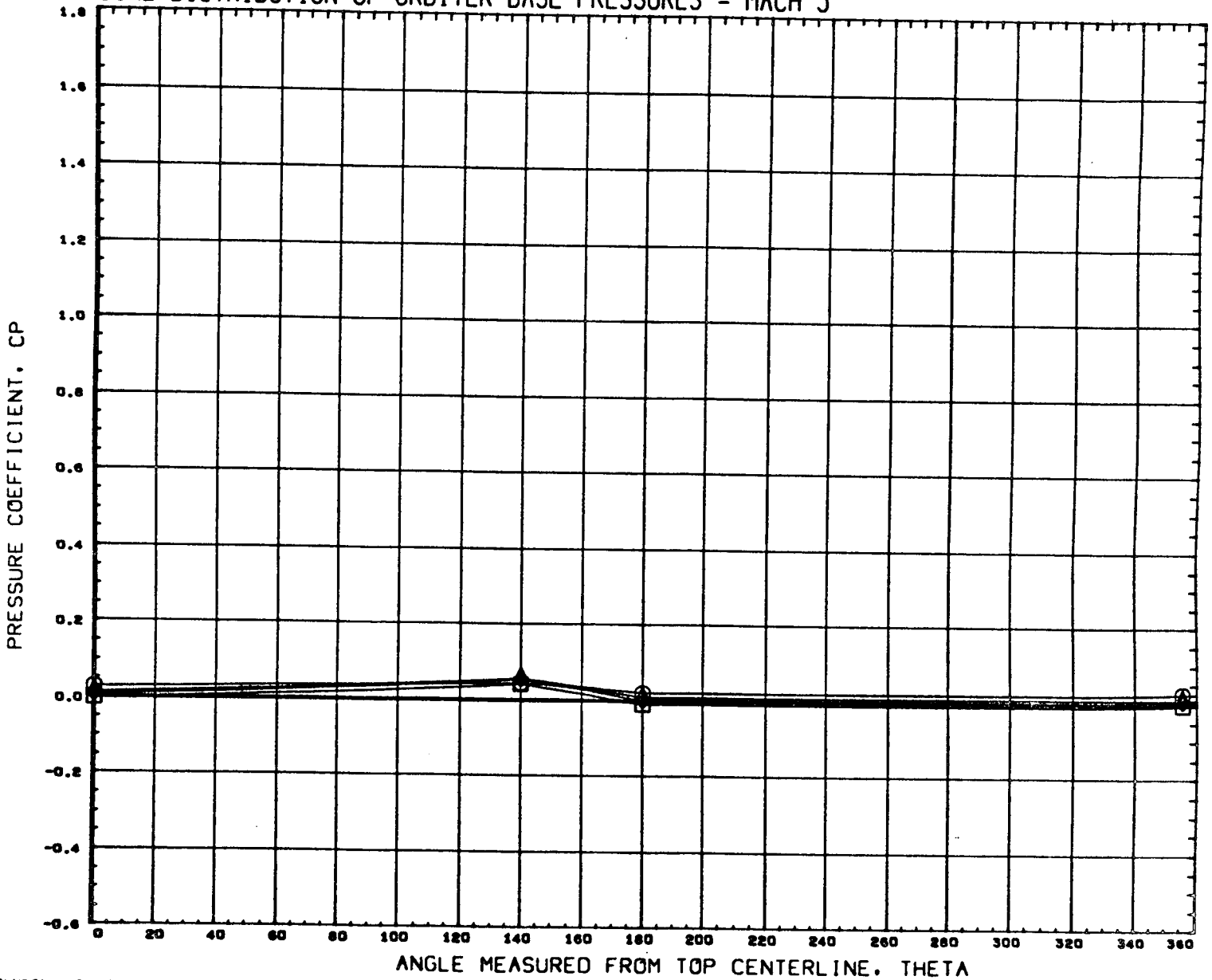
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AEDC VA1163 MDAC ORBITER (BASE)

•IT8611•

PAGE 1099

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

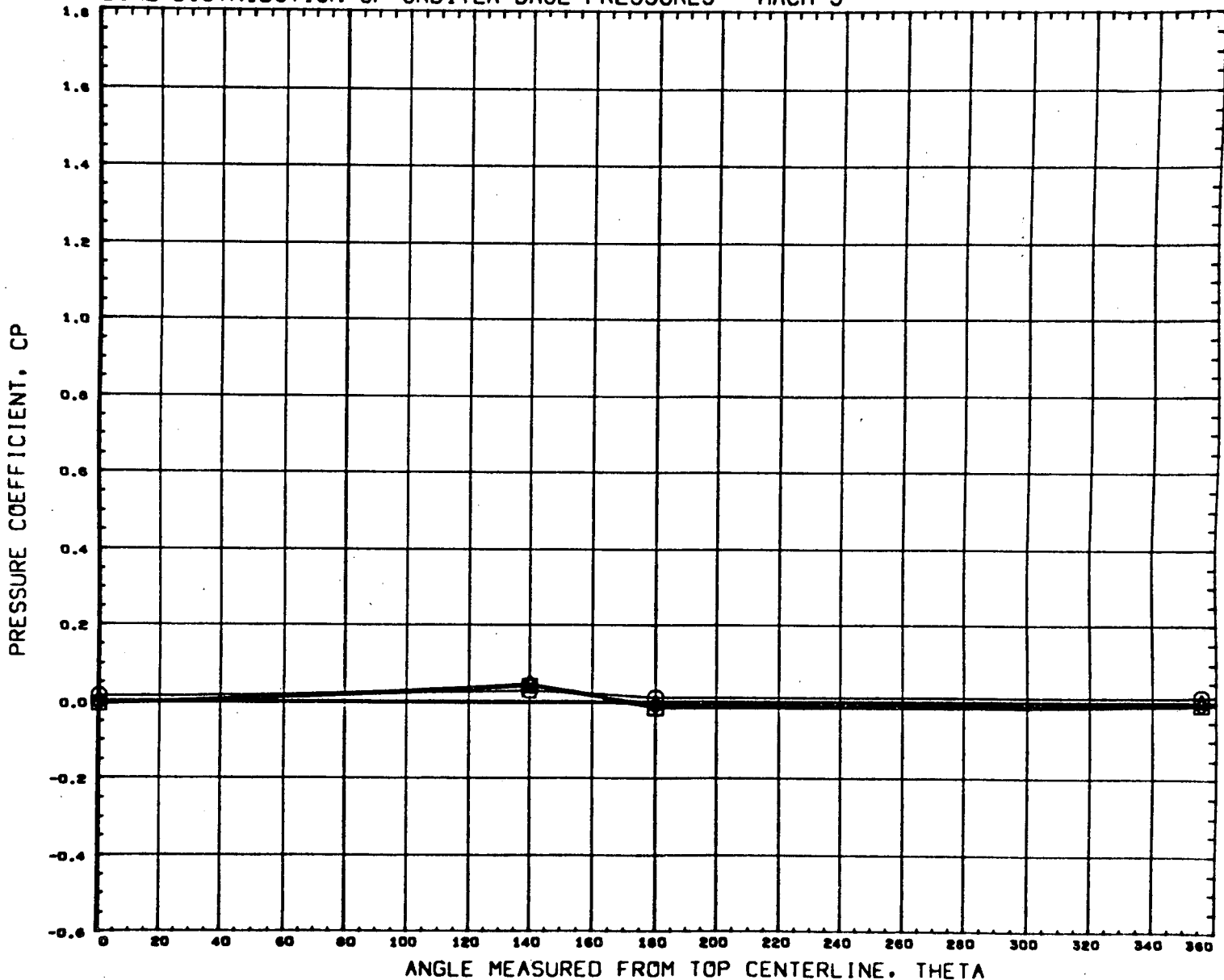


SYMBOL	DELTA X	X/L	DELTA Z
○	0.179	1.000	0.106
△	0.041		
◇	0.303		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	4.950	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5

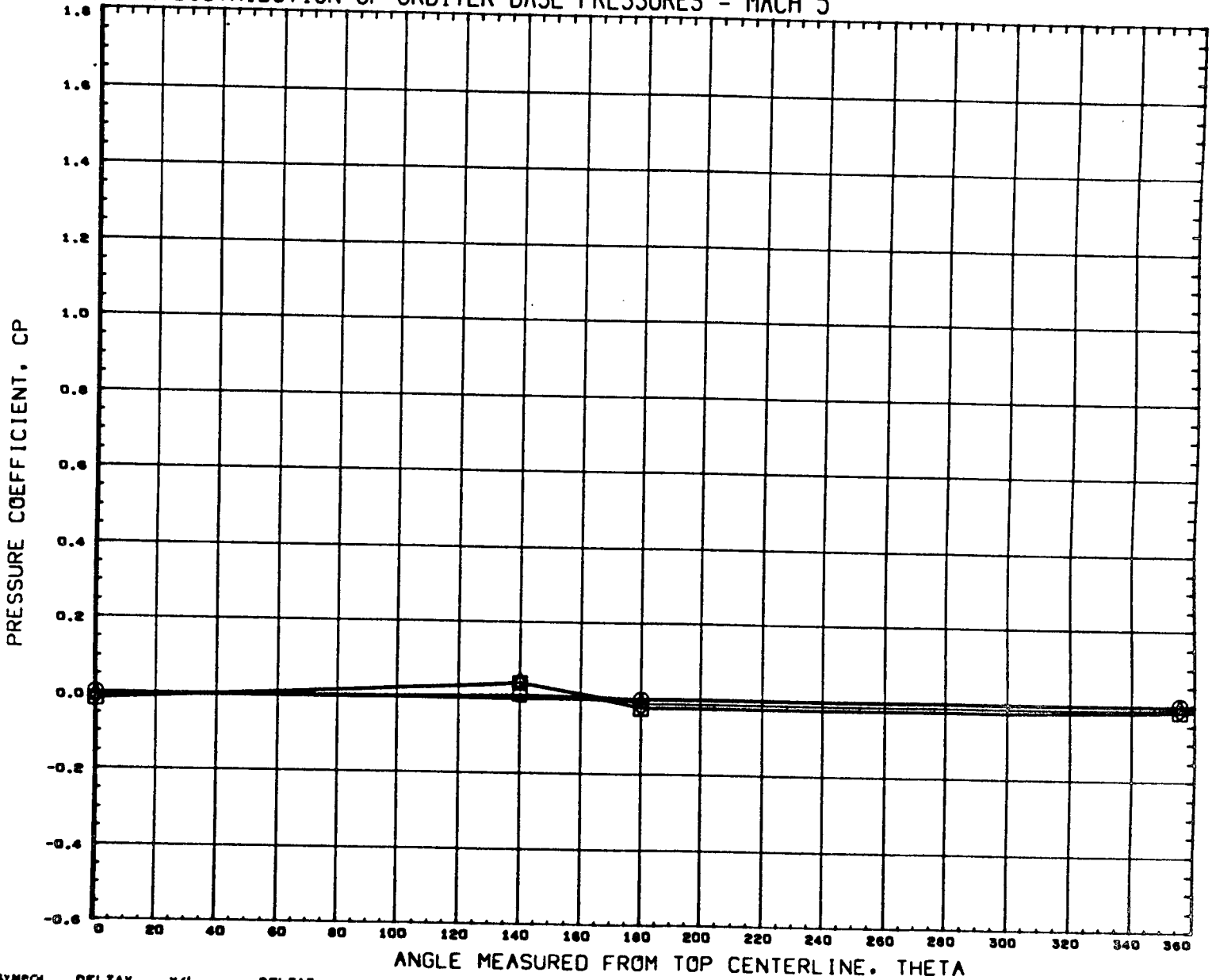


SYMBOL	DELTA X	X/L	DELTA Z
○	0.179	1.000	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	0.000	MACH	4.970
ALPHA1	0.000	ORSPOW	0.000
88TPOM	100.000		

REFERENCE FILE

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.179	1.000	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	5.037	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	100.000		

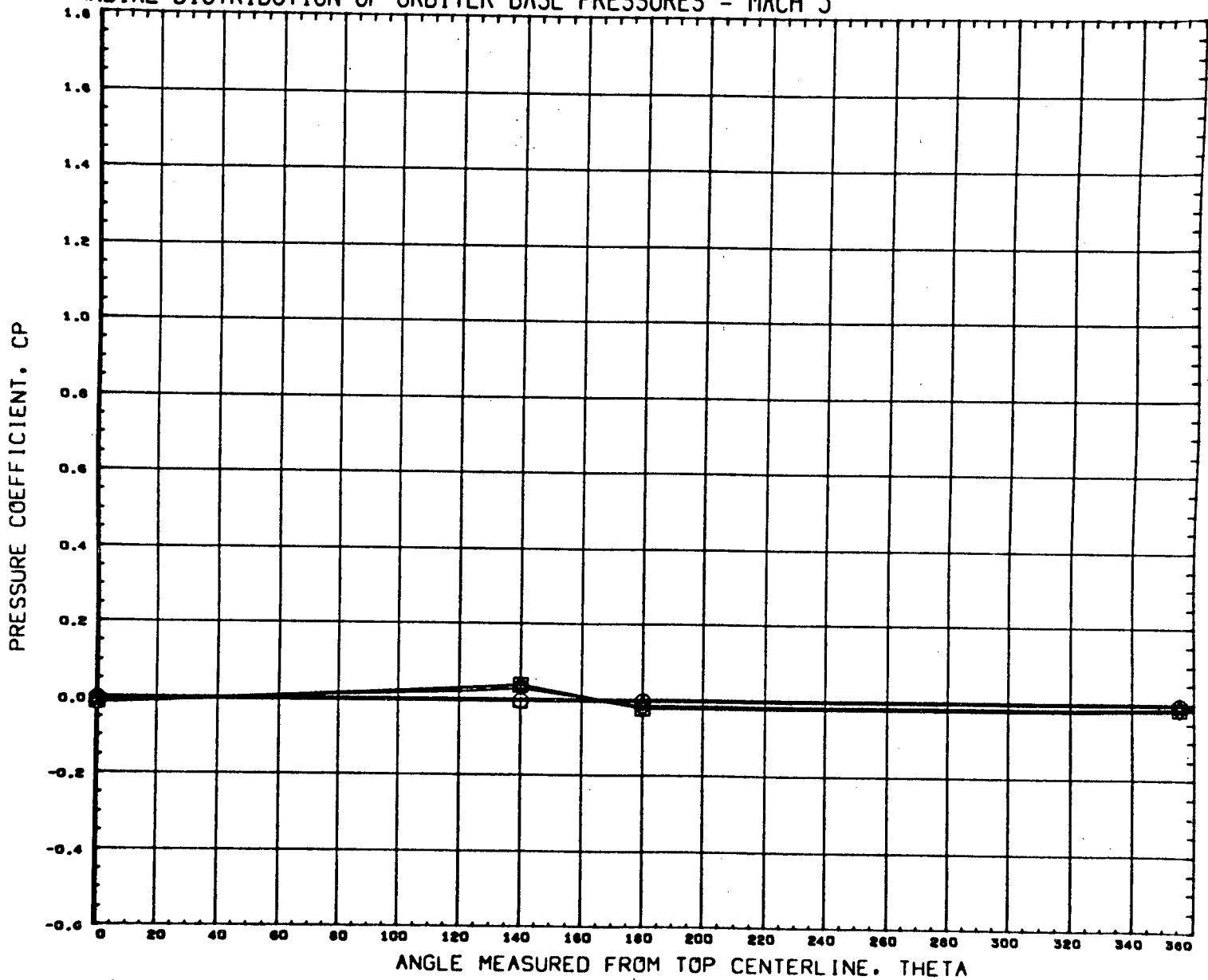
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8614•

PAGE 1102

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.179	1.000	0.106
△	0.041		
◇	0.103		
□	0.164		

PARAMETRIC VALUES			
ALPHAB	9.995	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	100.000		

REFERENCE FILE

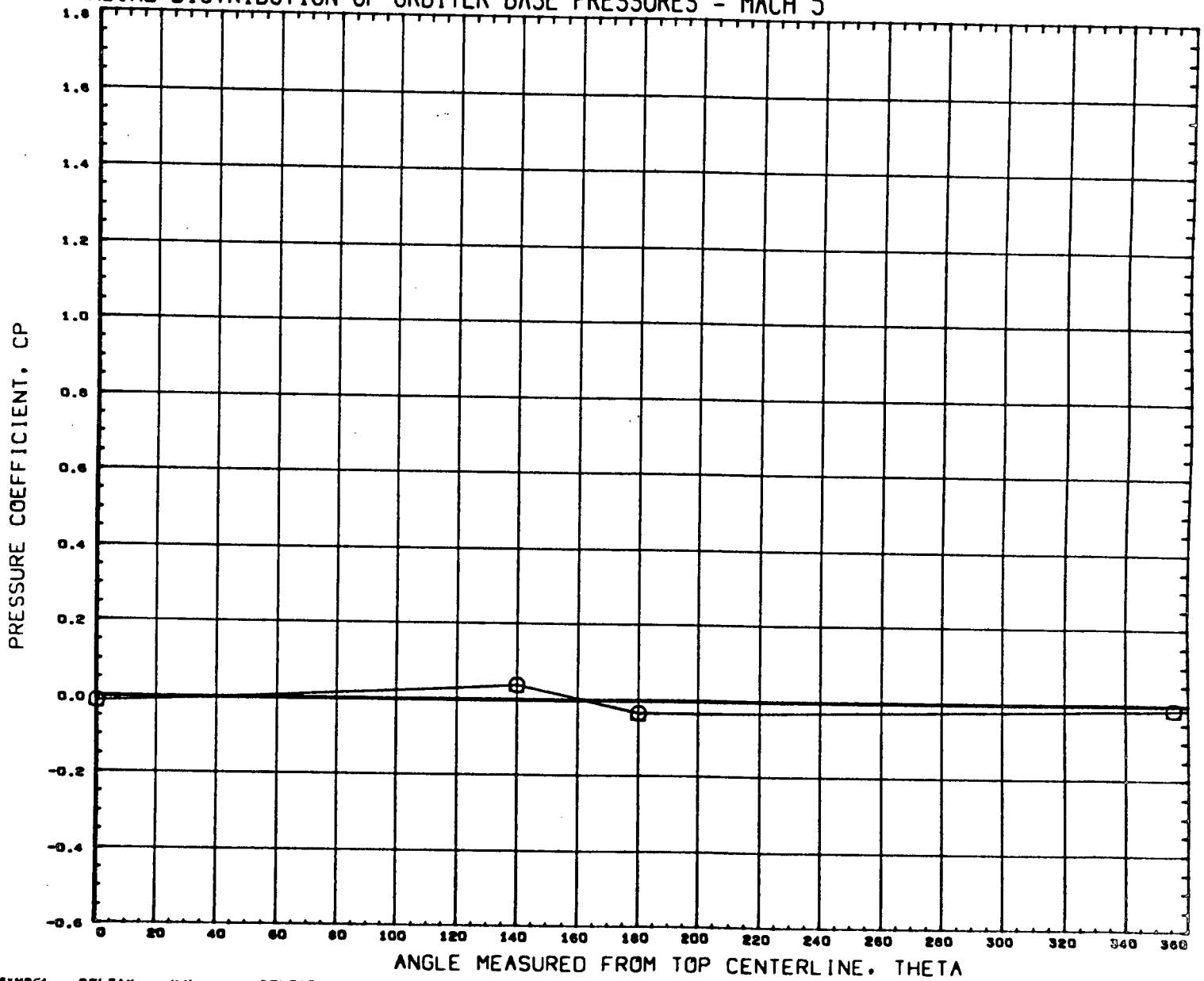
AEDC VA1163 MDAC ORBITER (BASE)

•IT8615•

PAGE 1103

0.12

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL \bigcirc DELTAX 0.103 X/L 1.000 DELTAY 0.106

PARAMETRIC VALUES
 ALPHAB - 4.906 MACH 4.970
 ALPHA1 0.000 ORBPOW 0.000
 BSTPOW 0.000

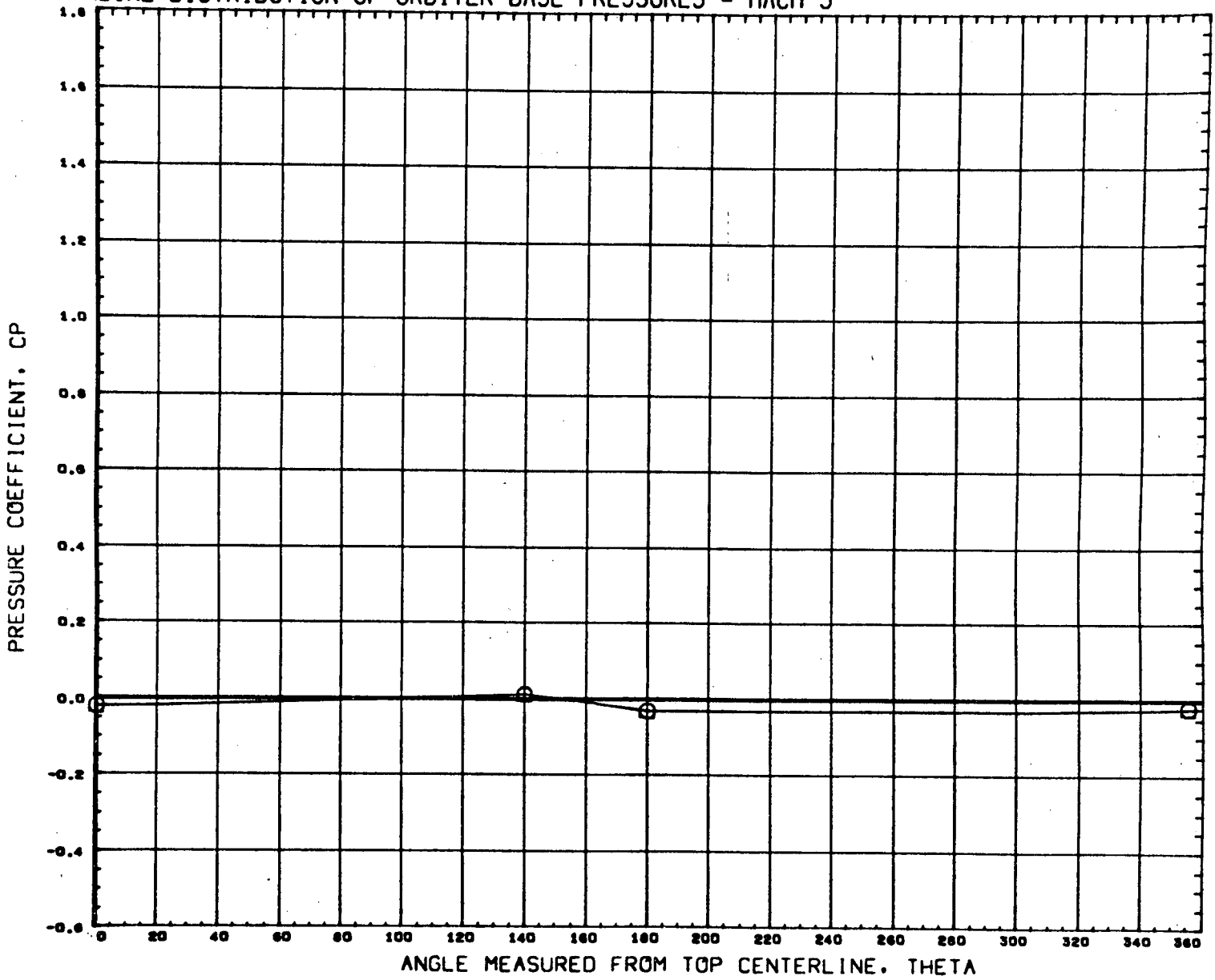
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8622•

PAGE 1104

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.103	1.000	0.151

PARAMETRIC VALUES			
ALPHAB	4.906	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

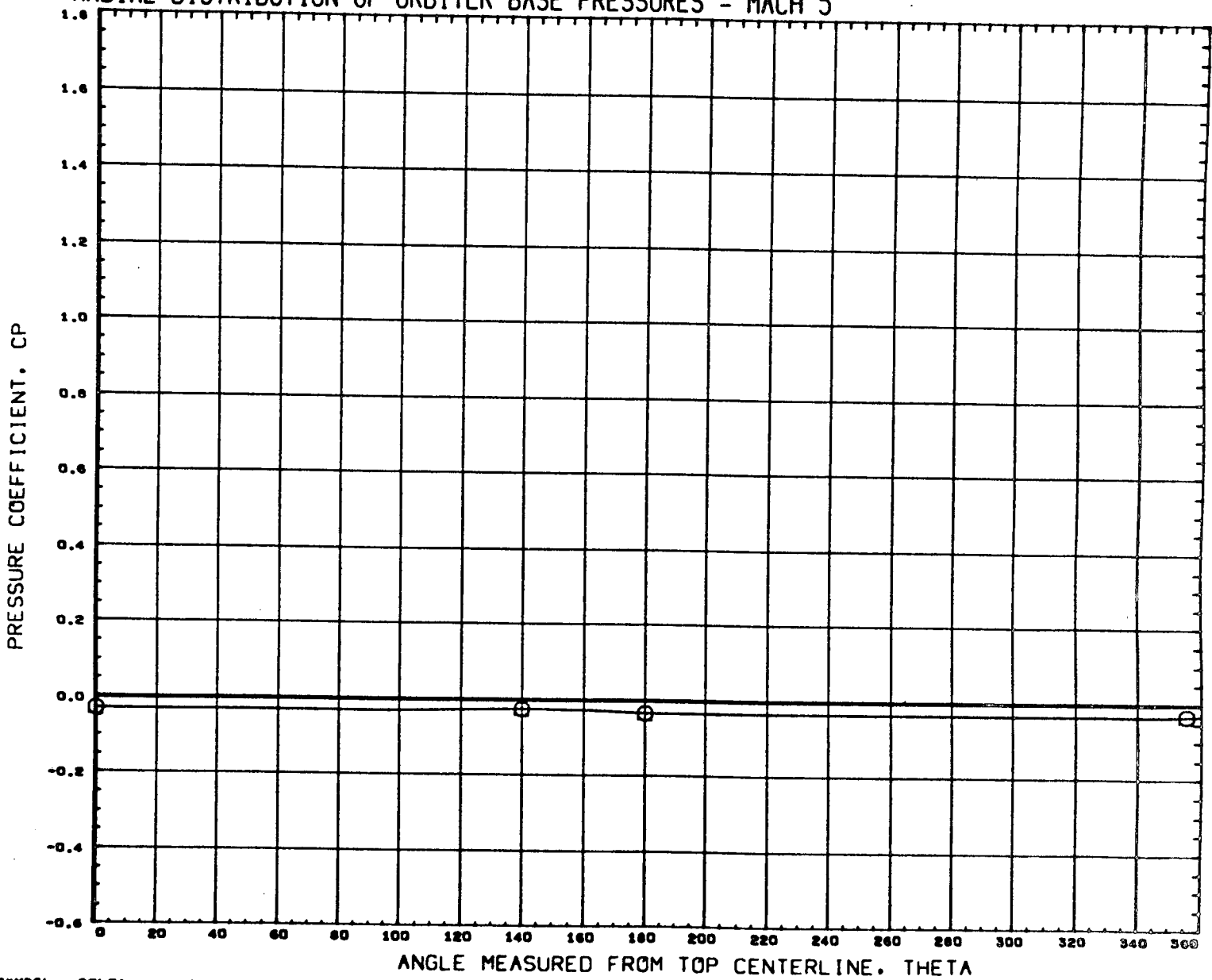
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8622•

PAGE 1105

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.520	1.000	0.908

PARAMETRIC VALUES		
ALPHAB	- 4.908	MACH 4.970
ALPHA1	0.000	ORBPOW 0.000
BSTPOW	0.000	

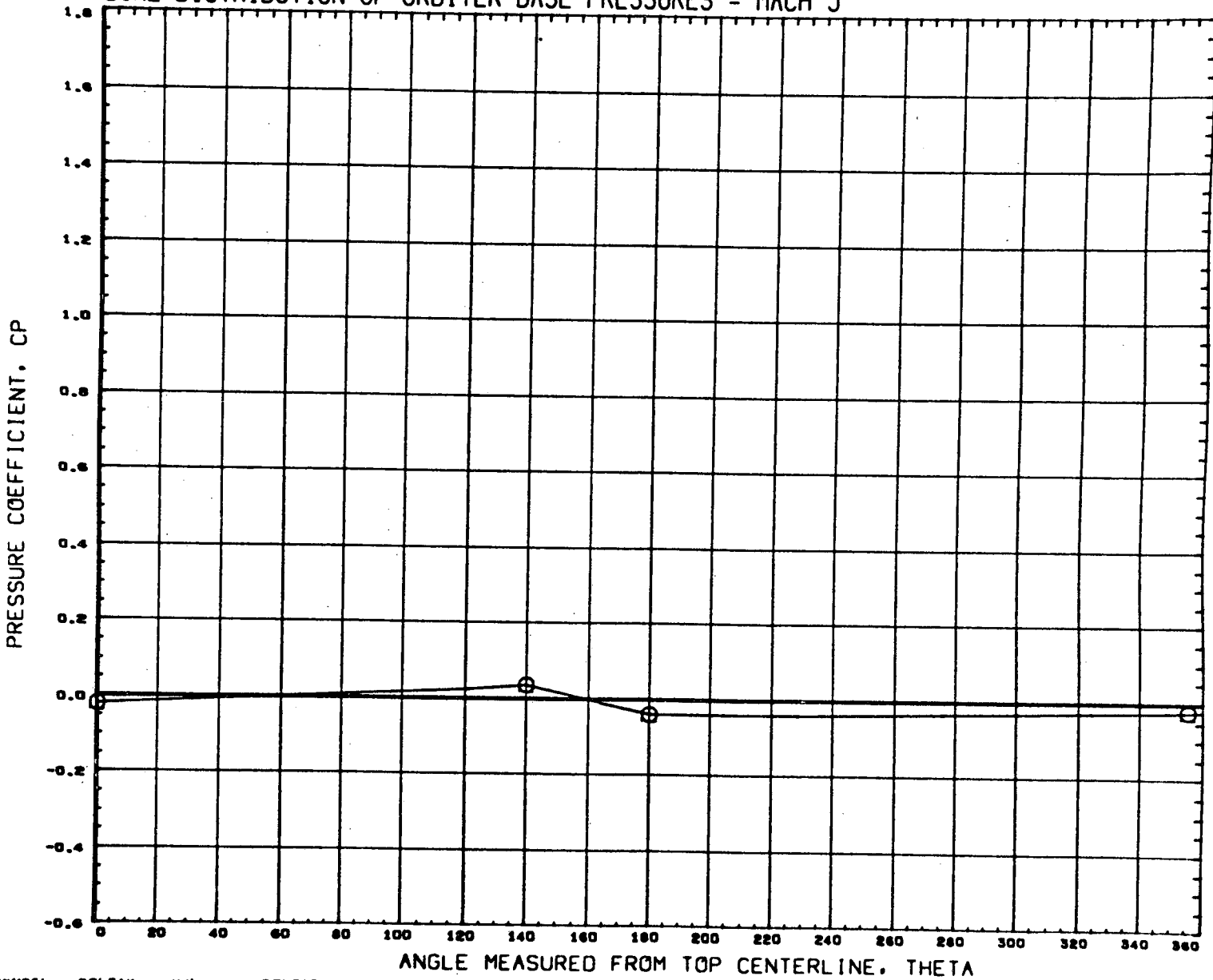
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8622•

PAGE 1106

RADIAL DISTRIBUTION OF ORBITER-BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 ○ 0.103 1.000 0.106

PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 SSTPOW 0.000

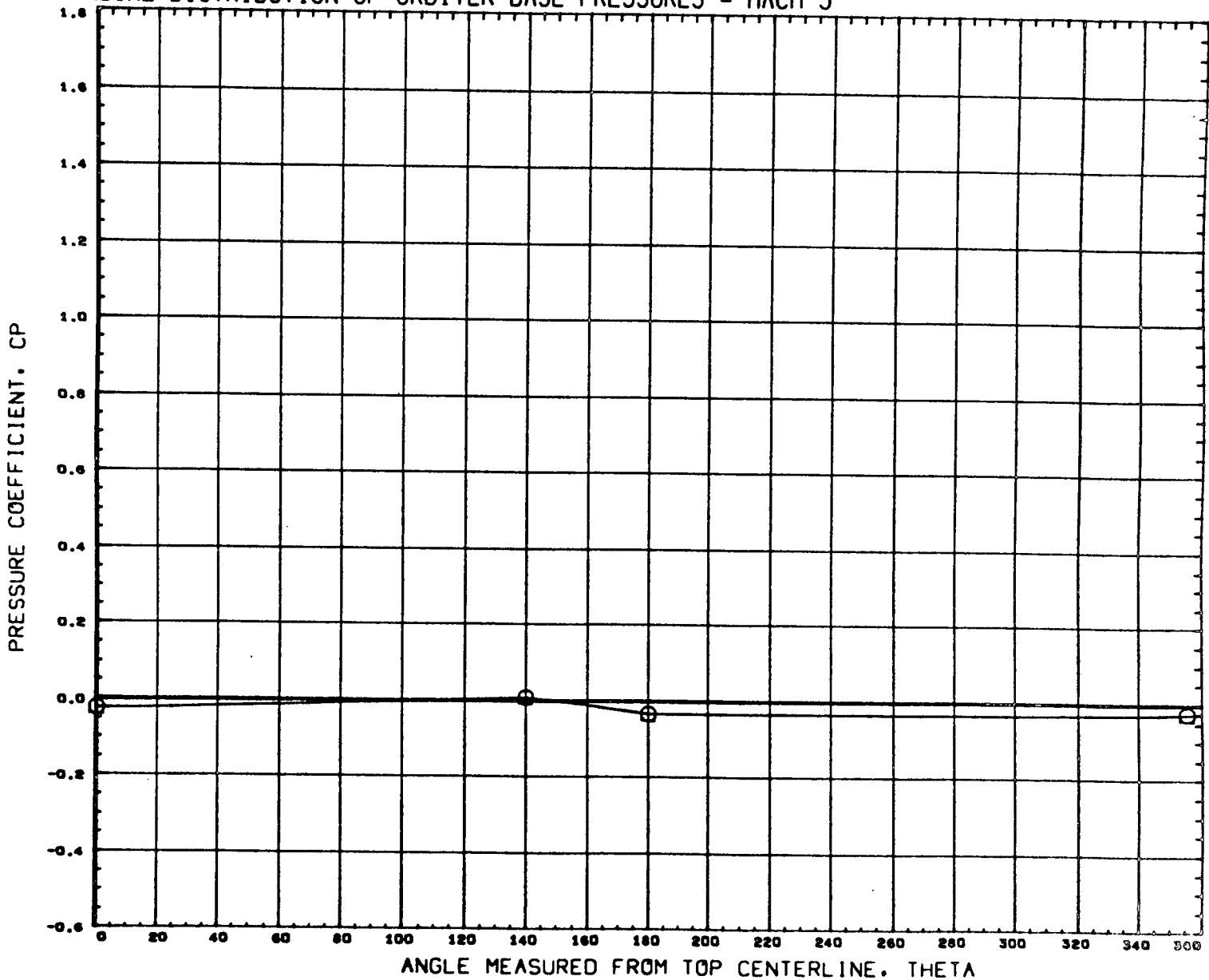
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8623•

PAGE 1107

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL \bigcirc DELTAX 0.103 X/L 1.000 DELTAZ 0.131

PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.970
 ALPHAI 0.000 ORBPCW 0.000
 BSTPCW 0.000

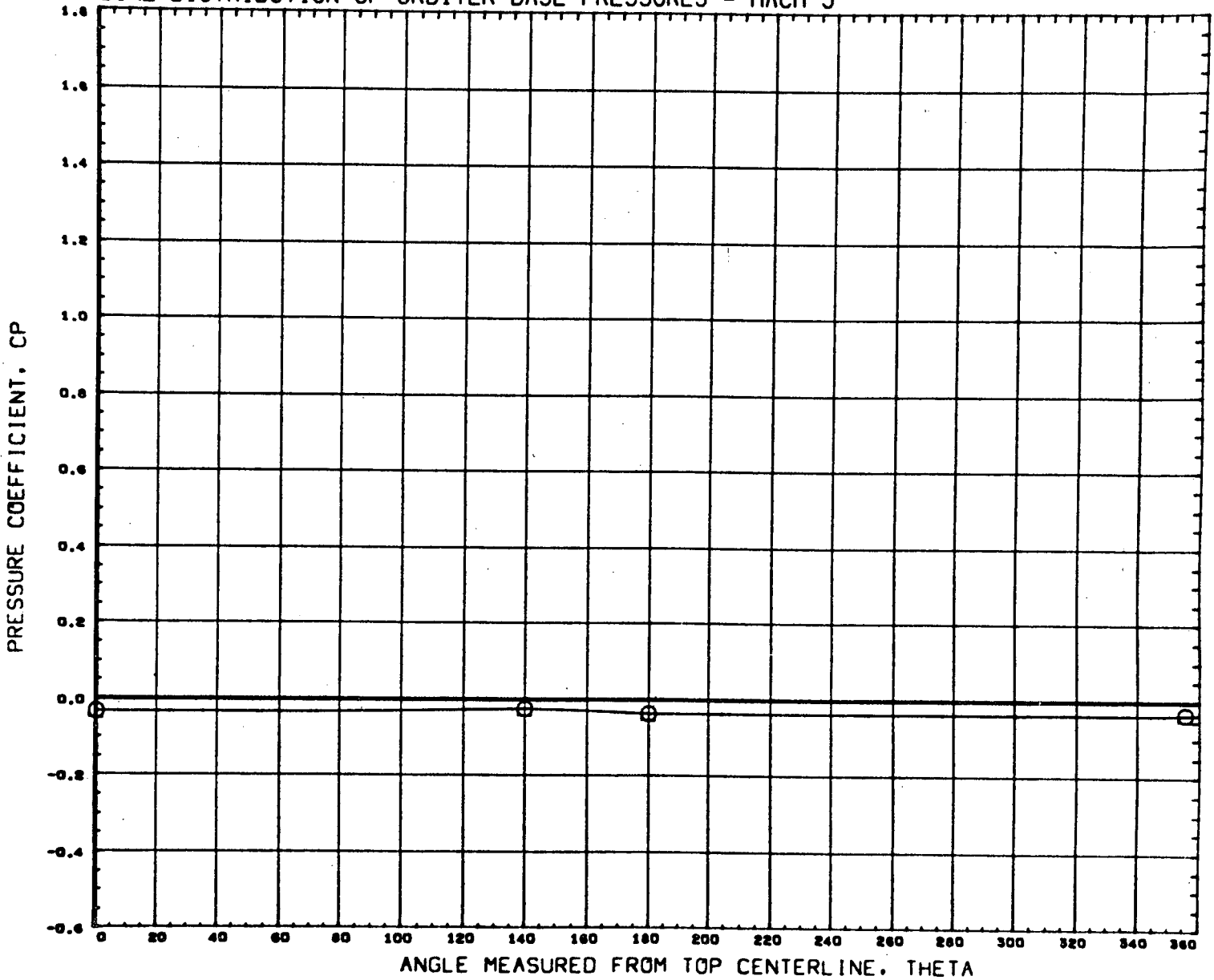
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•1T8623•

PAGE 1108

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL \circ DELTAX 0.520 X/L 1.000 DELTAZ 0.909

PARAMETRIC VALUES
 ALPHAB 0.050 MACH 4.970
 ALPHAI 0.000 ORBPOW 0.000
 BSTPOW 0.000

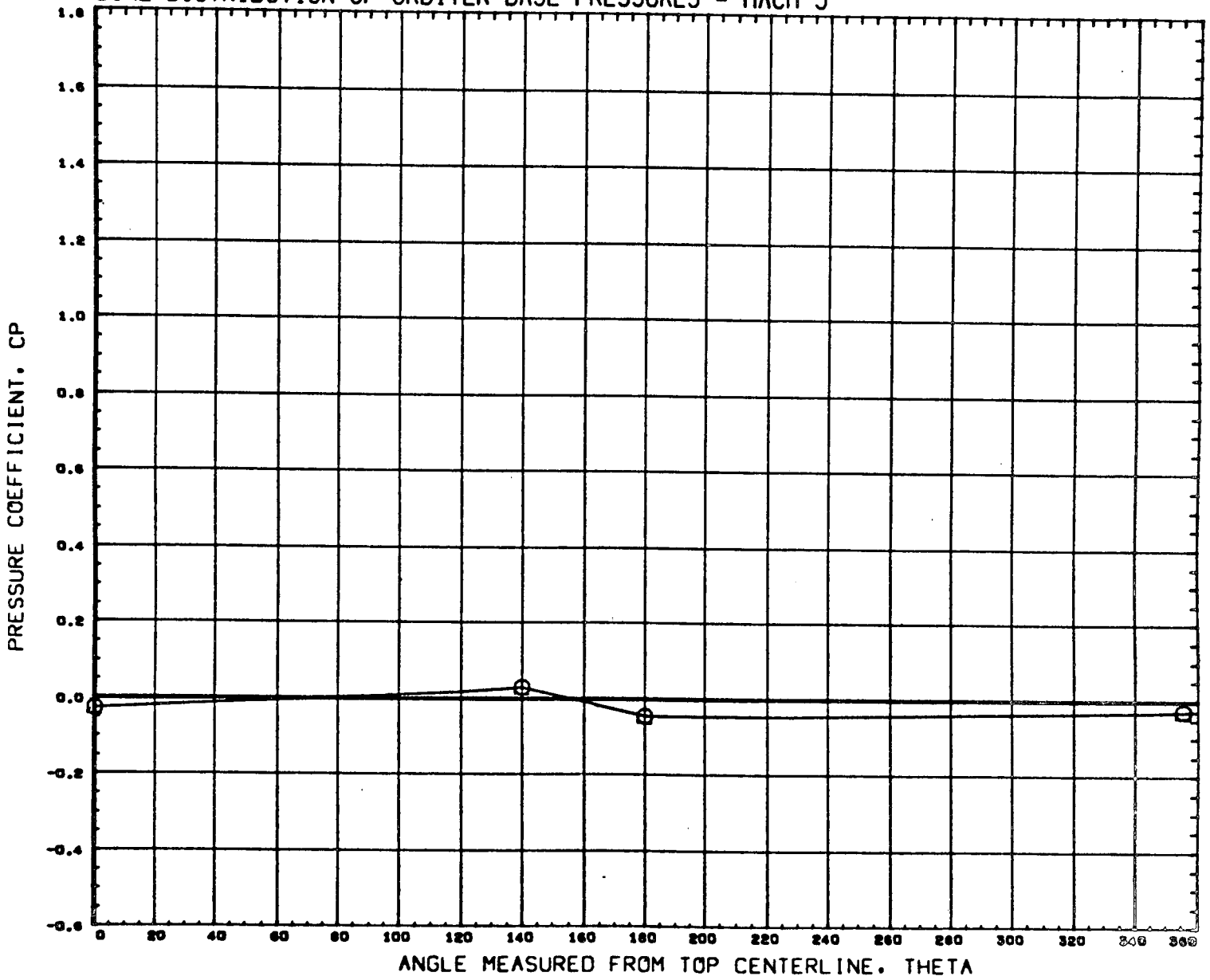
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8623•

PAGE 1109

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.103	1.000	0.106

PARAMETRIC VALUES			
ALPHAB	3.026	MACH	4.970
ALPHA1	0.000	ORBPOW	0.000
BSTPOW	0.000		

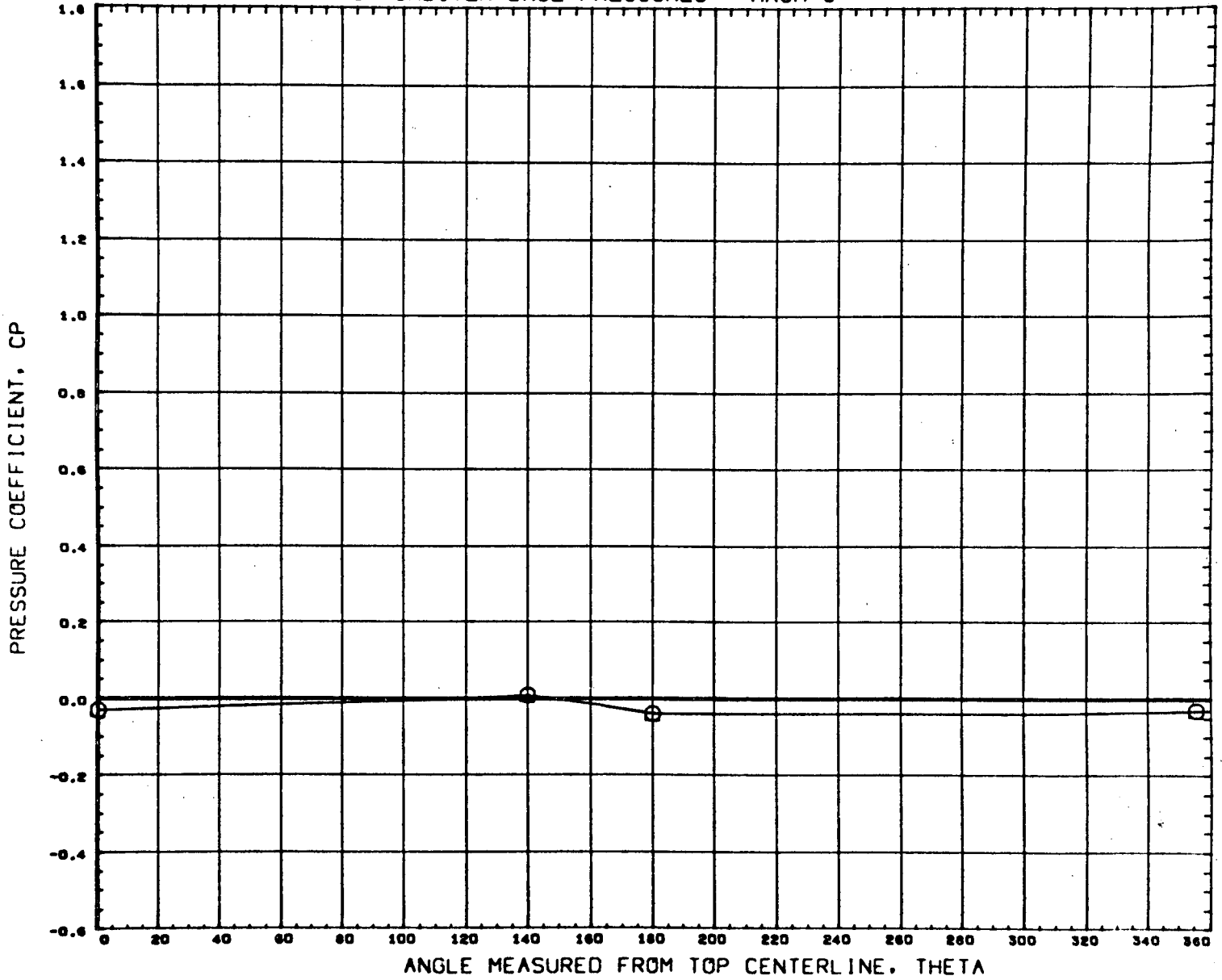
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8624•

PAGE 1110

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.103	1.000	0.151

PARAMETRIC VALUES			
ALPHA B	5.026	MACH	4.970
ALPHA I	0.000	ORB POW	0.000
BST POW	0.000		

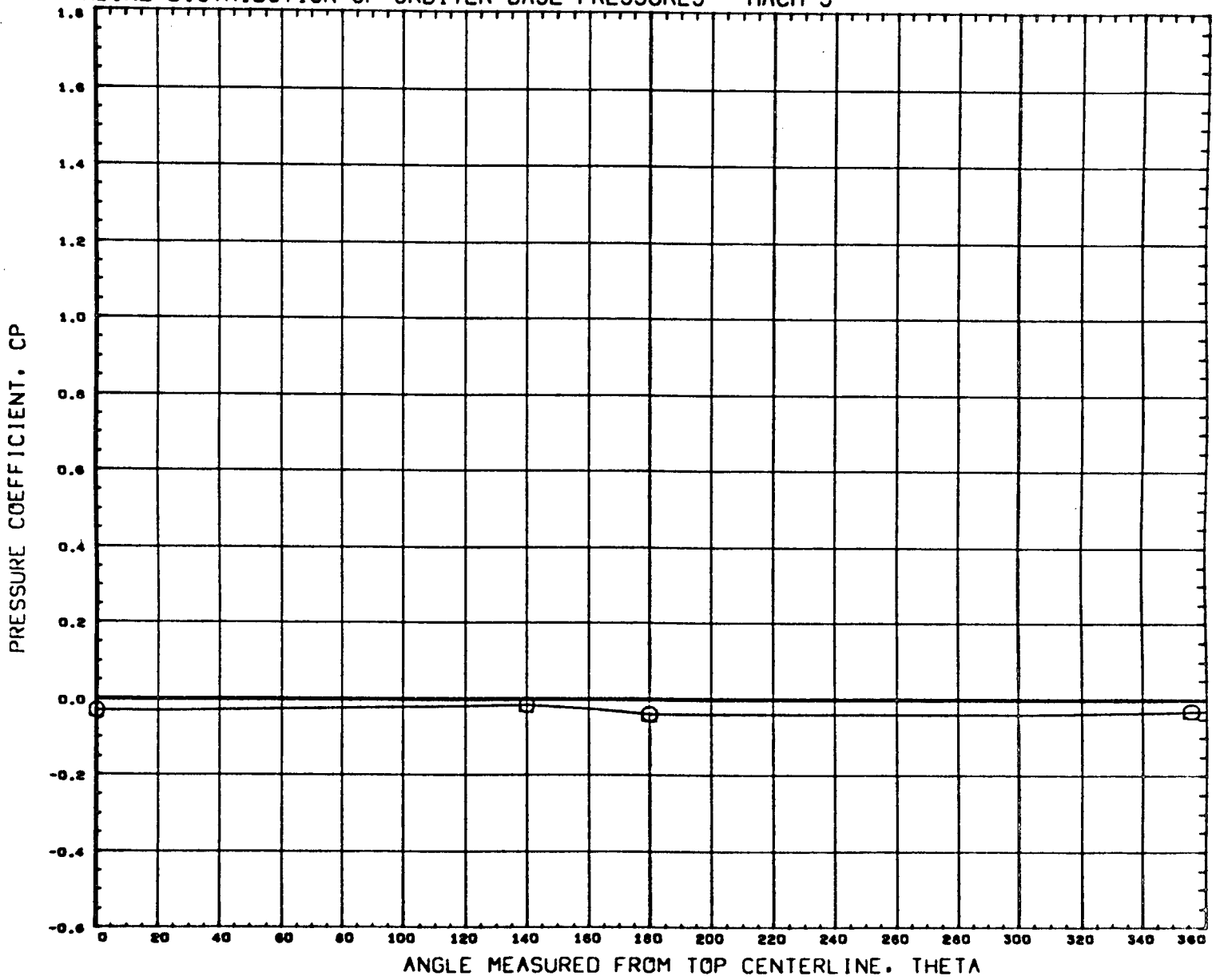
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8624•

PAGE 1111

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.520	1.000	0.908

PARAMETRIC VALUES			
ALPHAB	5.026	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

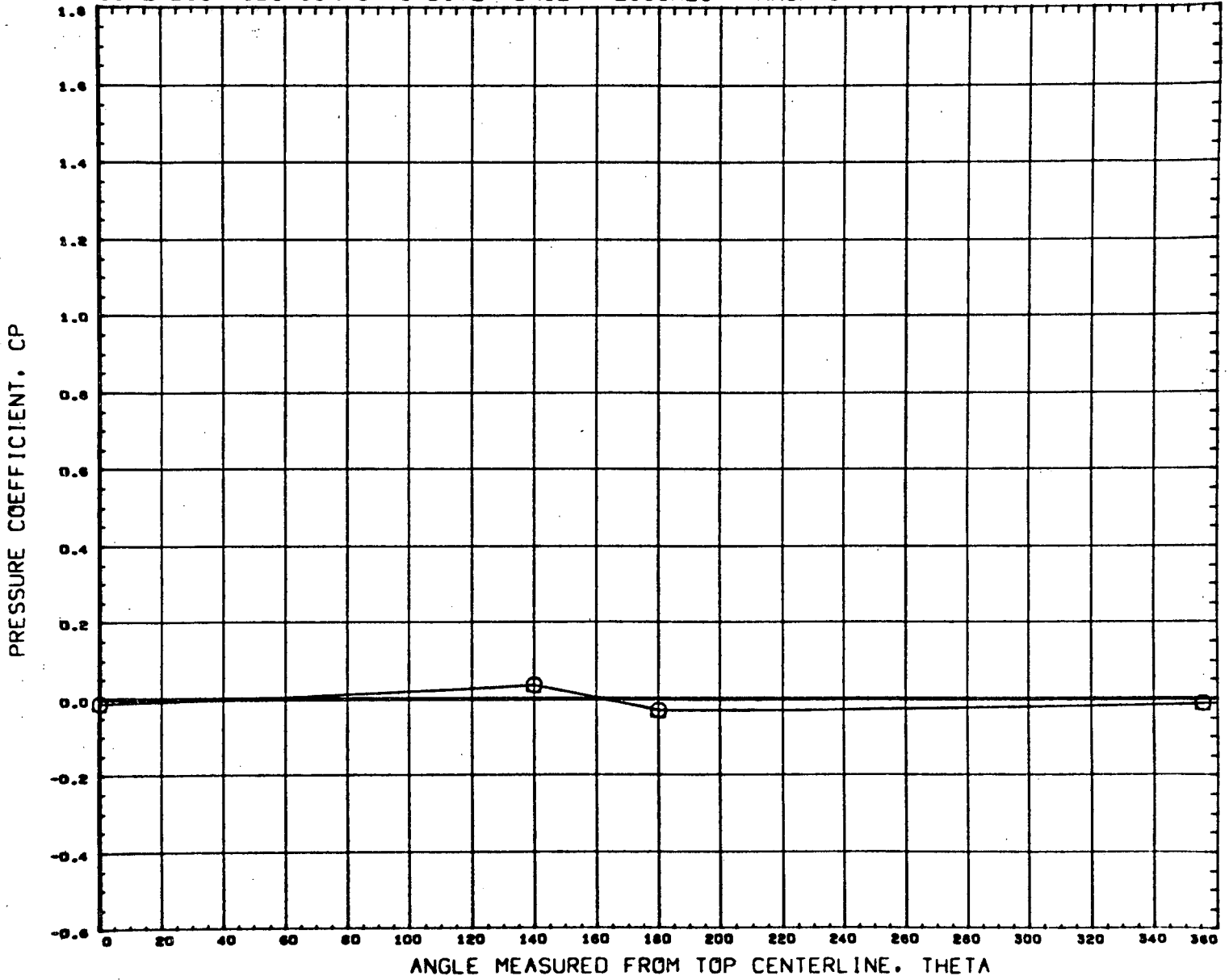
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•1T8624•

PAGE 1112

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.103	1.000	0.106

PARAMETRIC VALUES			
ALPHAB	- 4.940	MACH	4.970
ALPHAI	0.000	ORBPOW	0.000
BSTPOW	0.000		

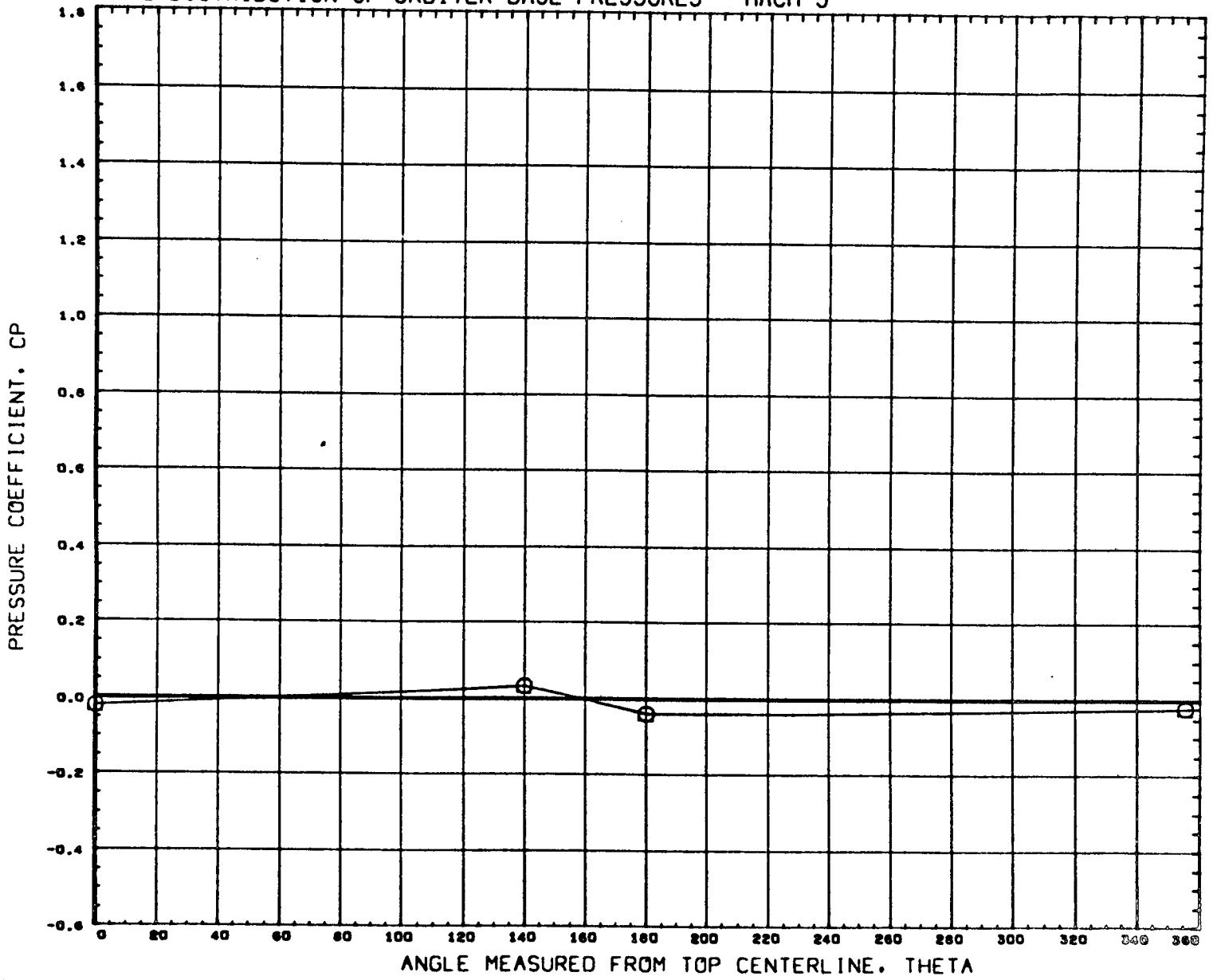
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8632•

PAGE 1113

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.103	1.000	0.106

PARAMETRIC VALUES			
ALPHA B	0.020	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BBTPOW	0.000		

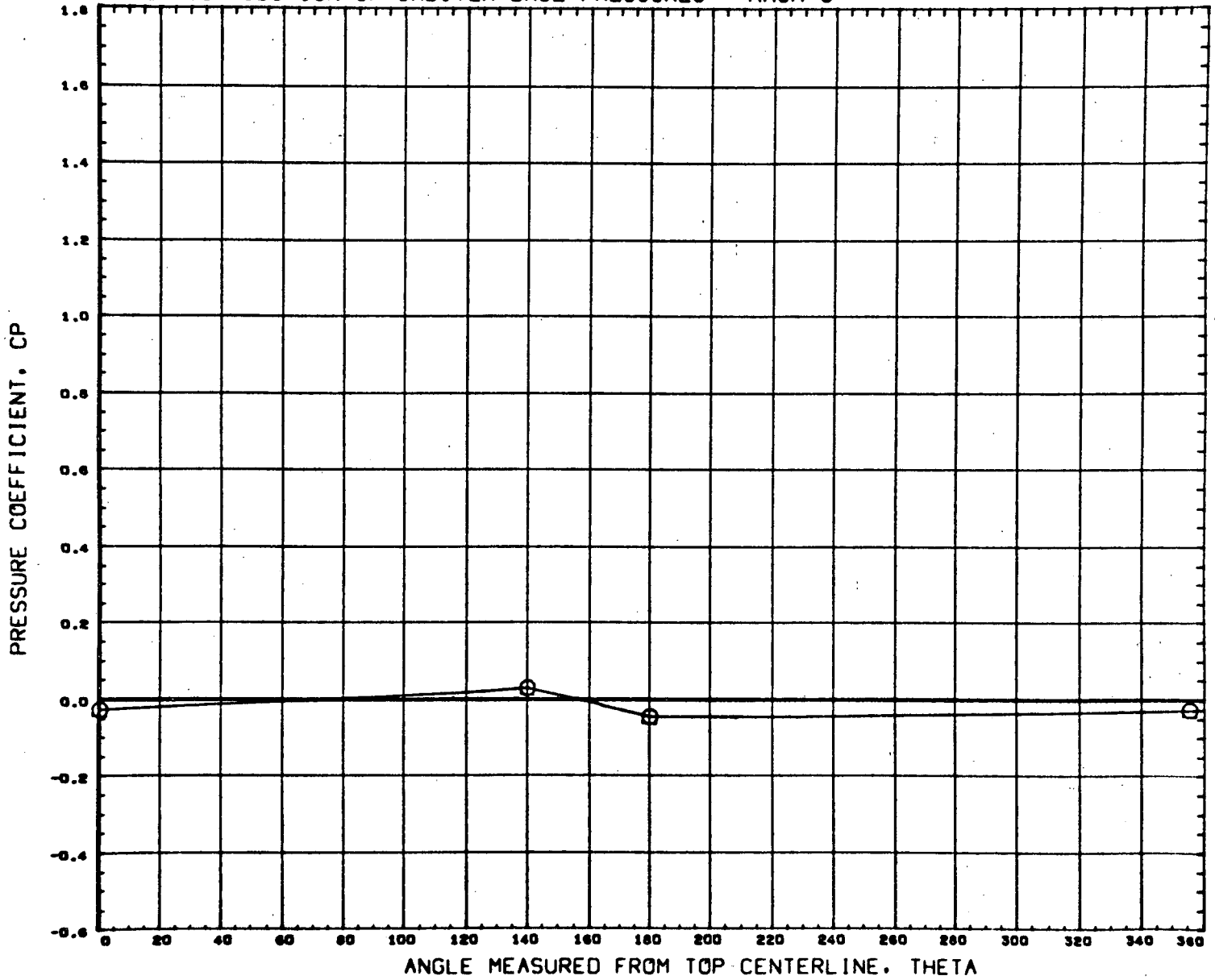
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•1T8633•

PAGE 1114

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL	DELTA X	X/L	DELTA Z
○	0.103	1.000	0.106

PARAMETRIC VALUES			
ALPHAB	4.995	MACH	4.970
ALPHA I	0.000	ORBPOW	0.000
BSTPOW	0.000		

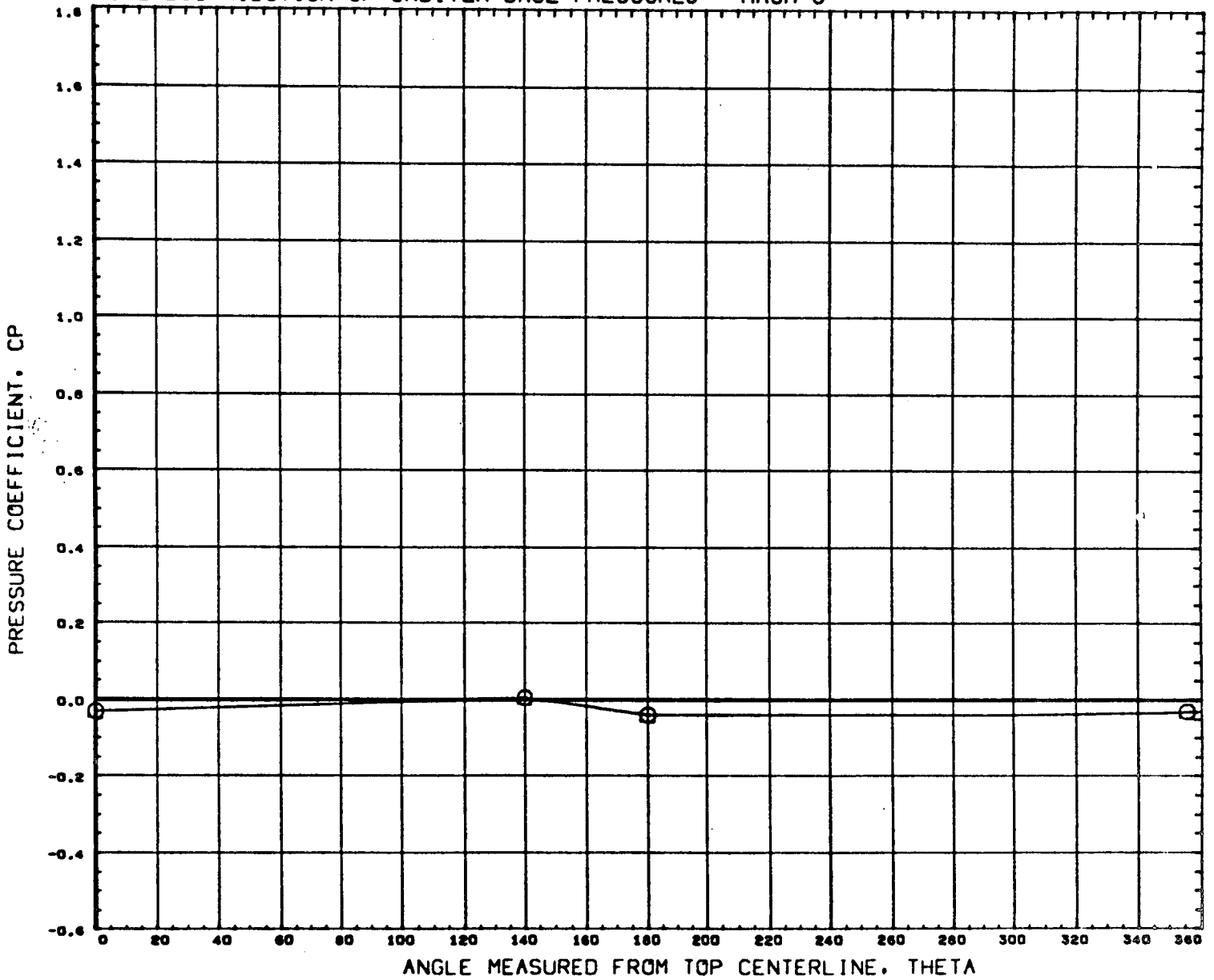
REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8634•

PAGE 1115

RADIAL DISTRIBUTION OF ORBITER BASE PRESSURES - MACH 5



SYMBOL DELTAX X/L DELTAZ
 O 0.103 1.000 0.131

PARAMETRIC VALUES
 ALPHAB 4.995 MACH 4.970
 ALPHAT 0.000 ORBPOW 0.000
 BSTPOW 0.000

REFERENCE FILE

AEDC VA1163 MDAC ORBITER (BASE)

•IT8634•

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