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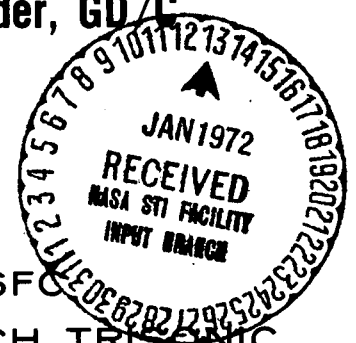
(NASA-CR-120022) DETERMINATION OF
LONGITUDINAL AND LATERAL DIRECTIONAL
AERODYNAMIC CHARACTERISTICS OF THE B19B
PRESSURE-FED R. F. McGinnis, et al
(Chrysler Corp.) Dec. 1971 589 p CSCL 22B G3/31

MS-DR-1204
CR-120,022
CEMBER 1971



—SPACE SHUTTLE—
**DETERMINATION OF LONGITUDINAL
AND LATERAL DIRECTIONAL
AERODYNAMIC CHARACTERISTICS
OF THE B19B PRESSURE-FED
BOOSTER AND THE B19B
BOOSTER/040A ORBITER LAUNCH
CONFIGURATION**

by
R. F. McGinnis, GD/C
and
F. W. Eder, GD/C



MSFC
14 x 14 INCH TRISONIC
WIND TUNNEL

SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

**MARSHALL SPACE
FLIGHT CENTER
N A S A**

CONTRACT NAS8-4016
MARSHALL SPACE FLIGHT CENTER



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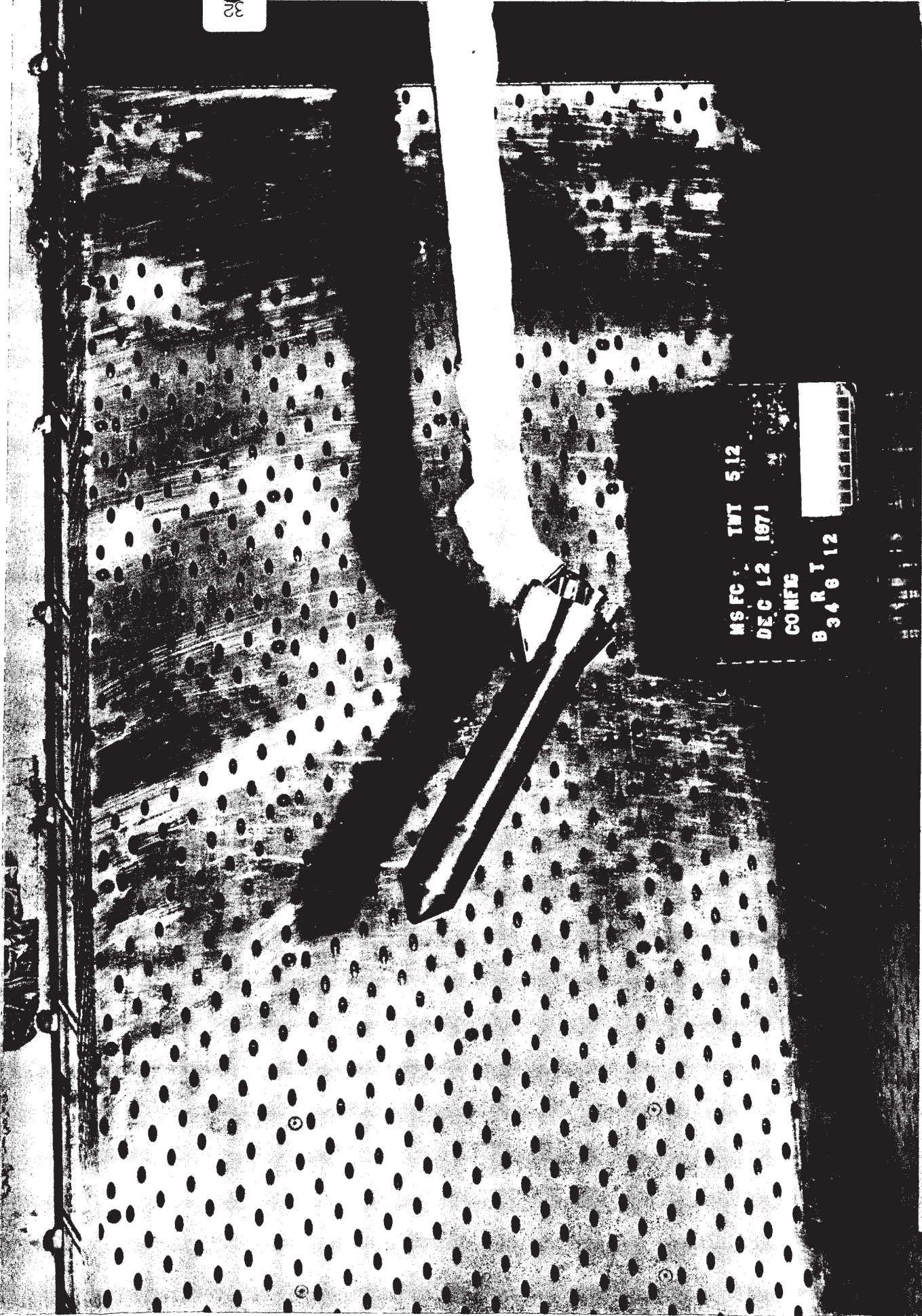
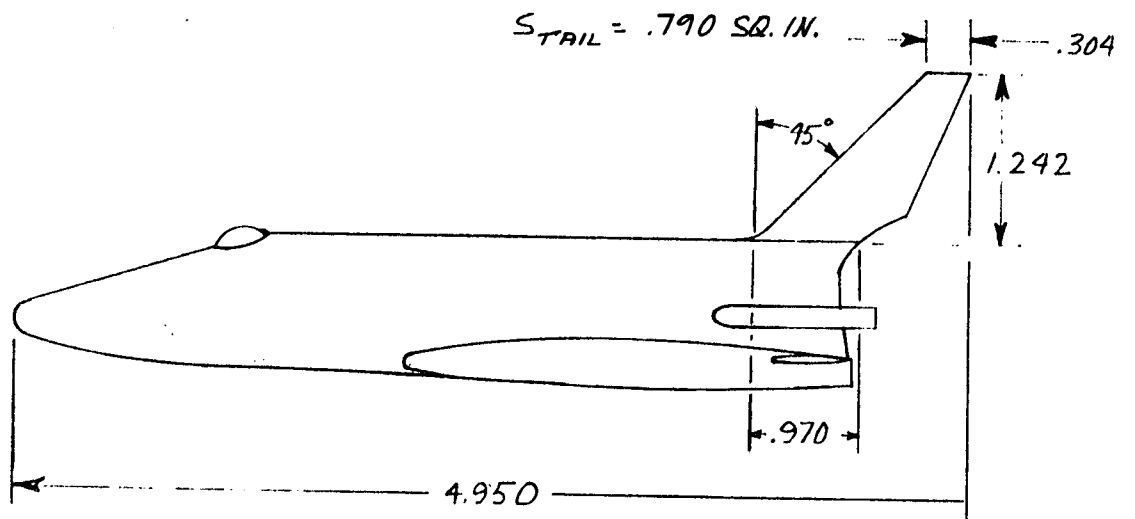


Figure 14. B34R6T12 Configuration - Alpha Range +40 to +60 Degrees; Tunnel Closed, Except Side Port Open

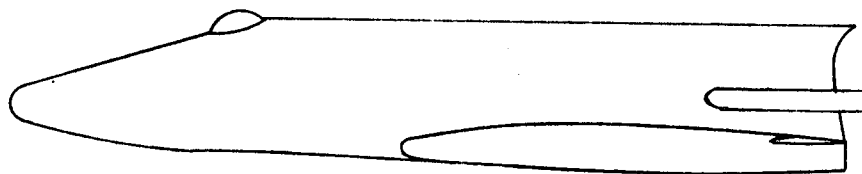
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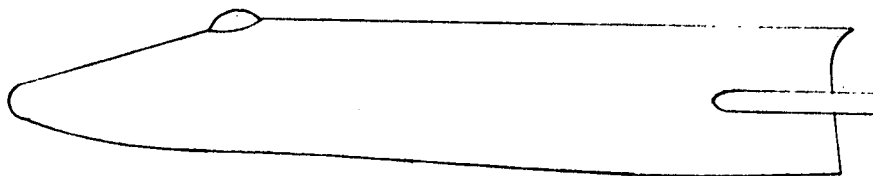
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ORBITER 02



ORBITER 03



ORBITER 04

FIGURE 13. ORBITER 02, 03, 04

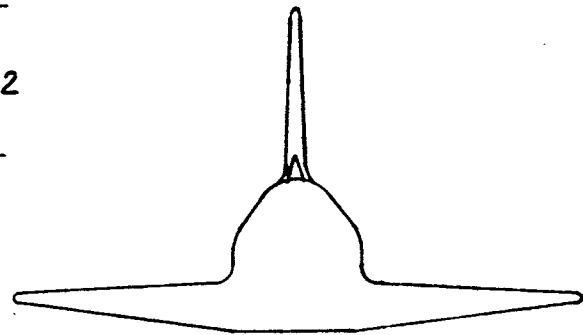
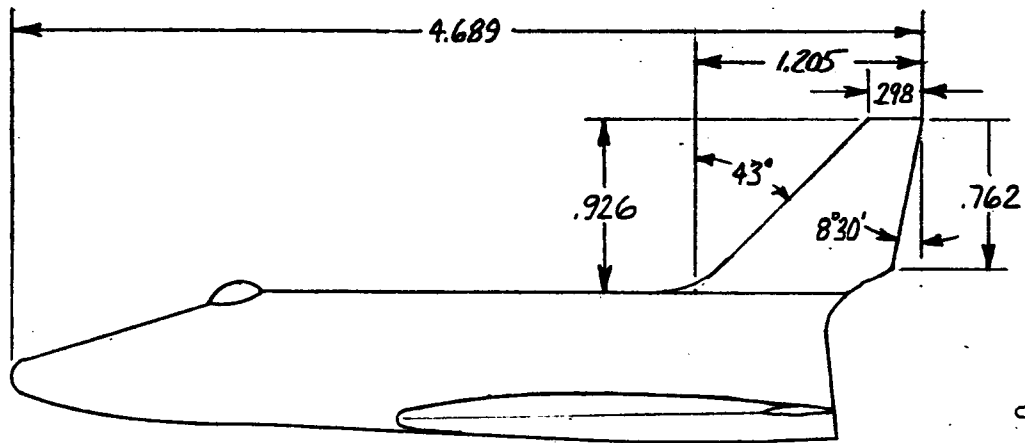
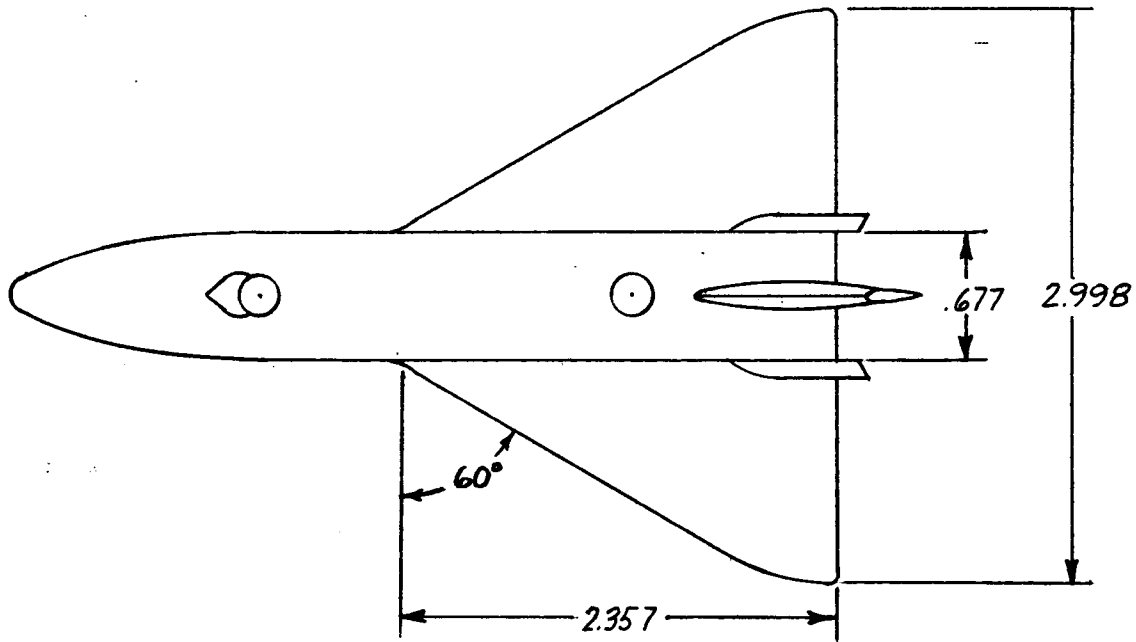


FIGURE 12. ORBITER 01

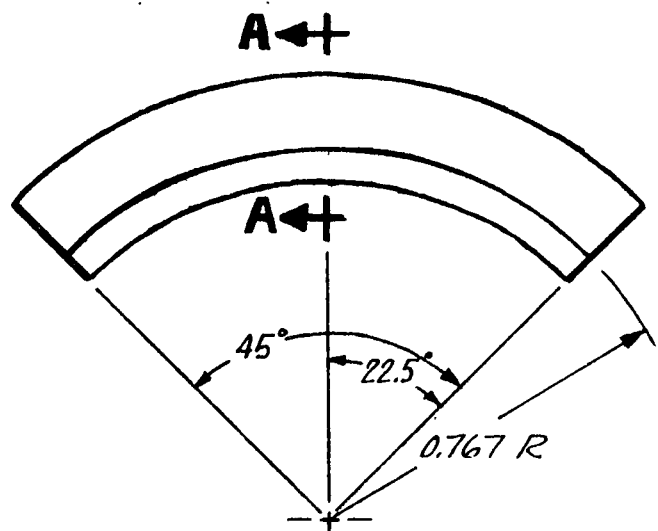
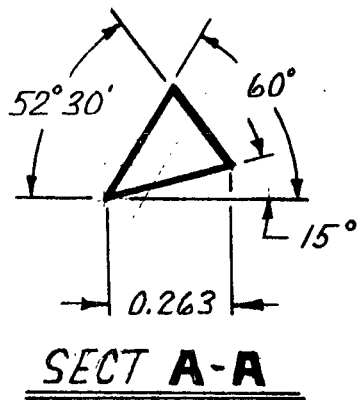


FIGURE 11. DRAG SKIRT S3

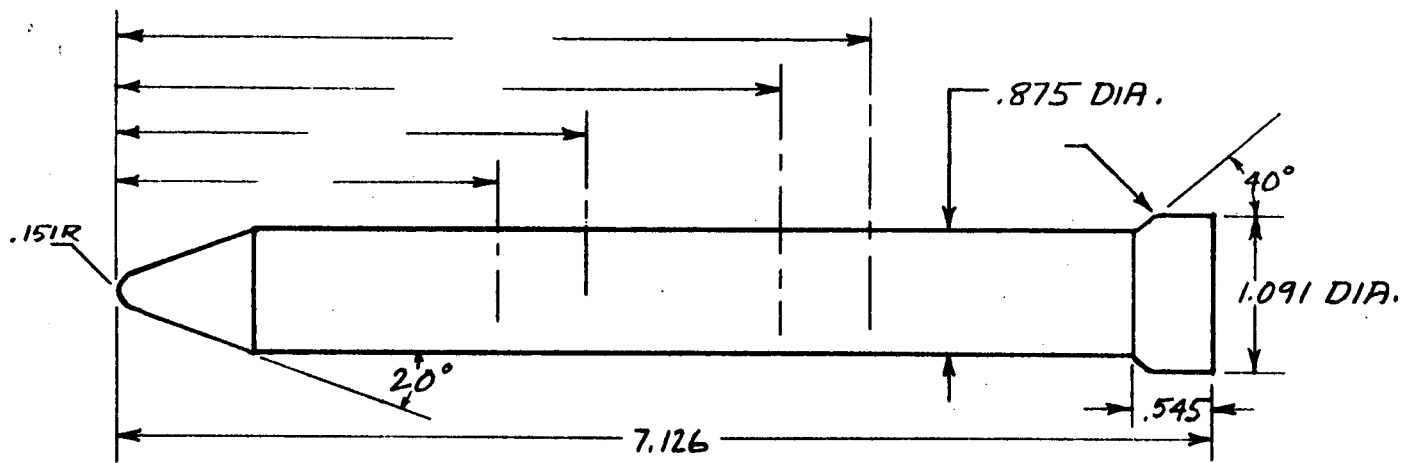


FIGURE 10. TANK T3

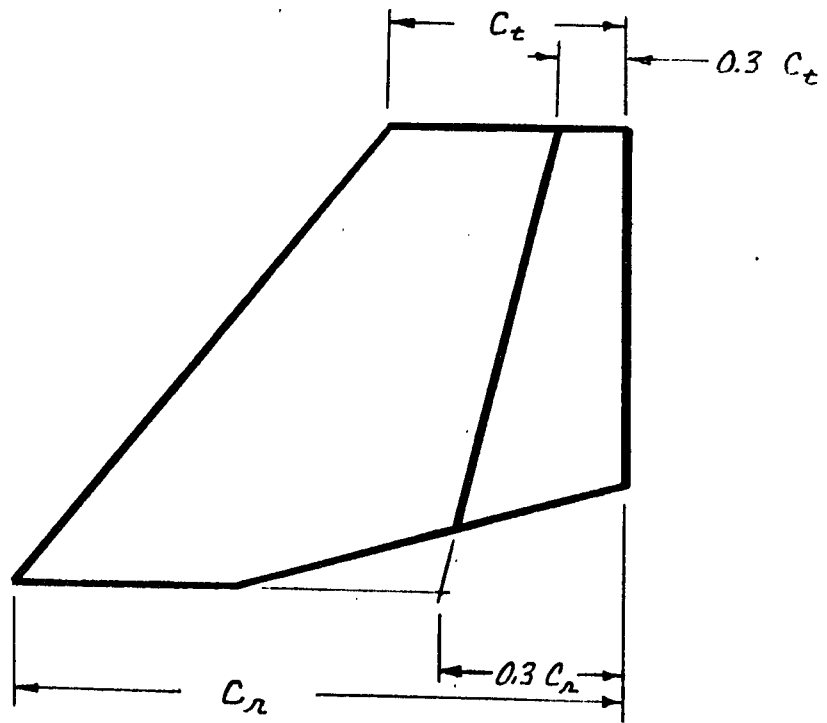
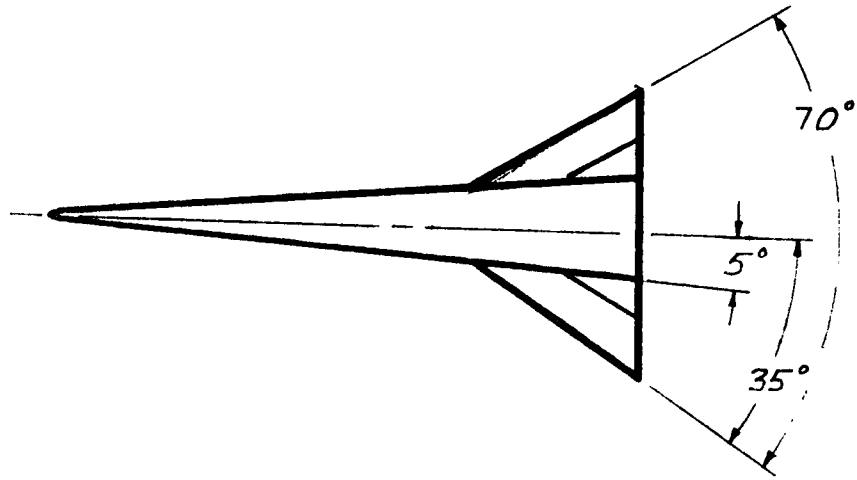


FIGURE 9. TAIL T17

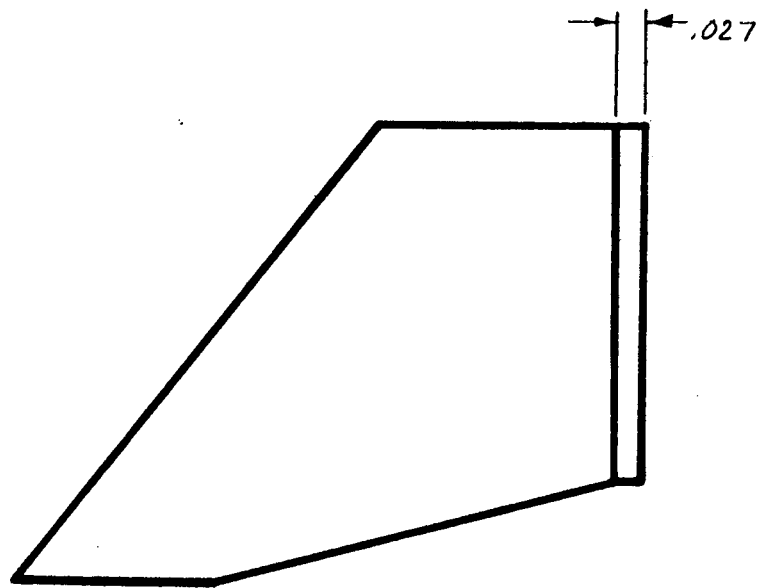
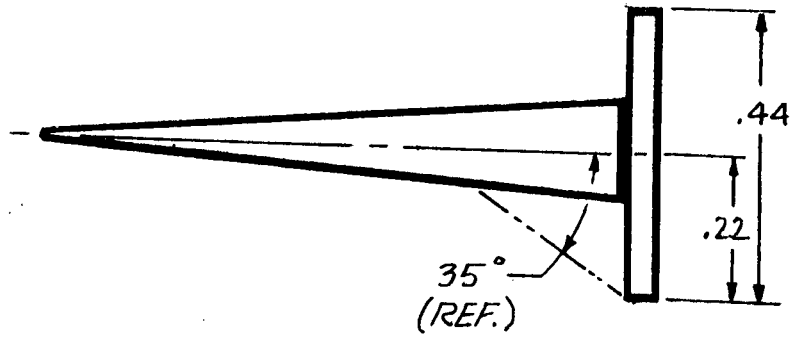


FIGURE 8. TAIL T15

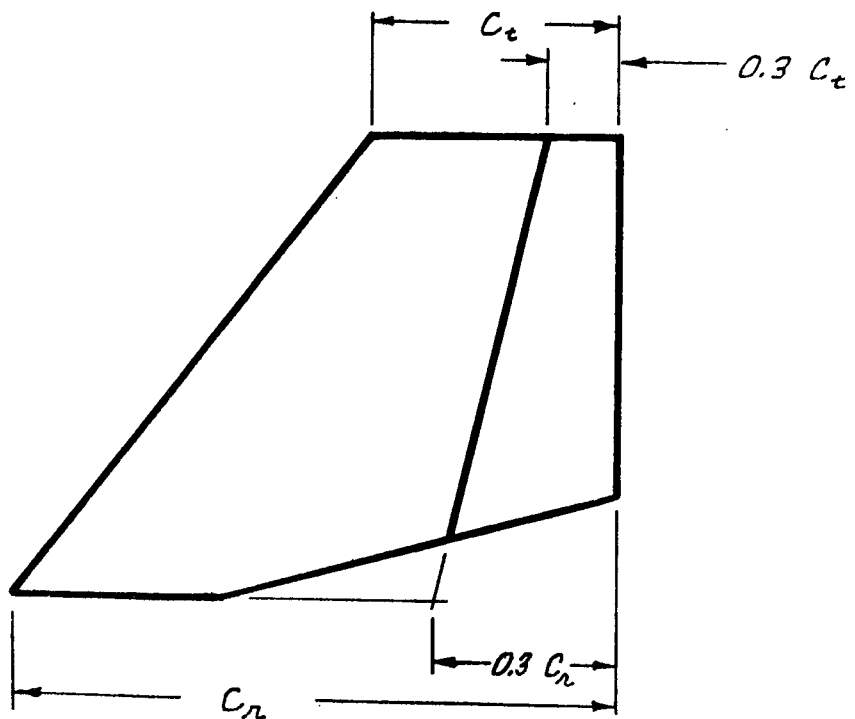
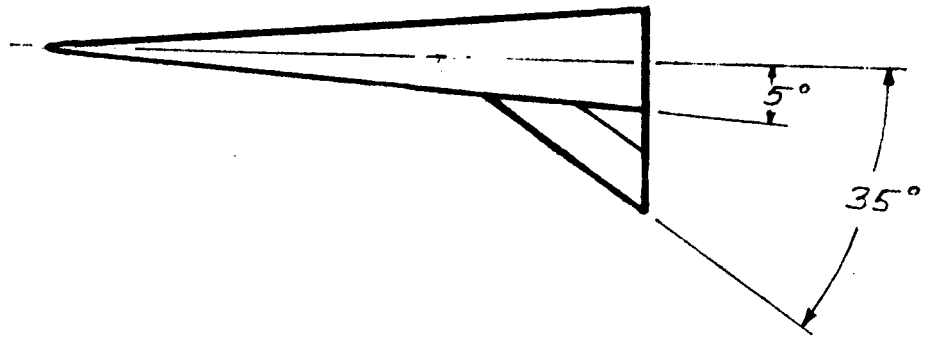


FIGURE 7. TAIL T14

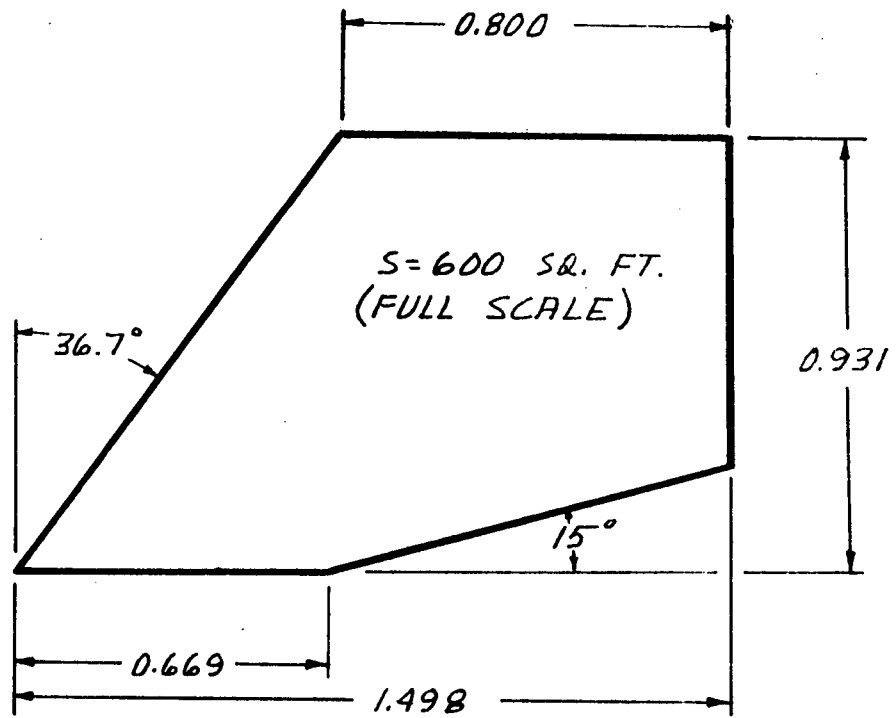
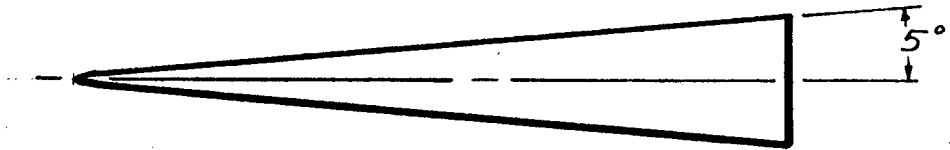
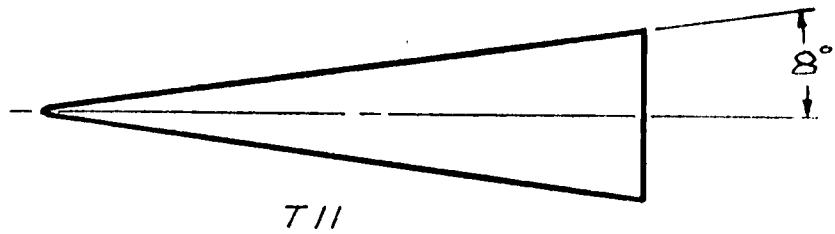
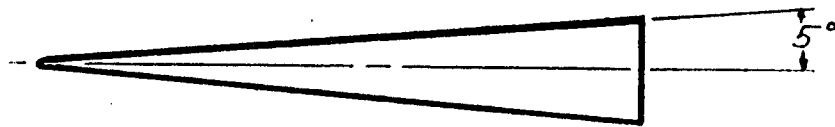


FIGURE 6. TAIL T13



T11



T10

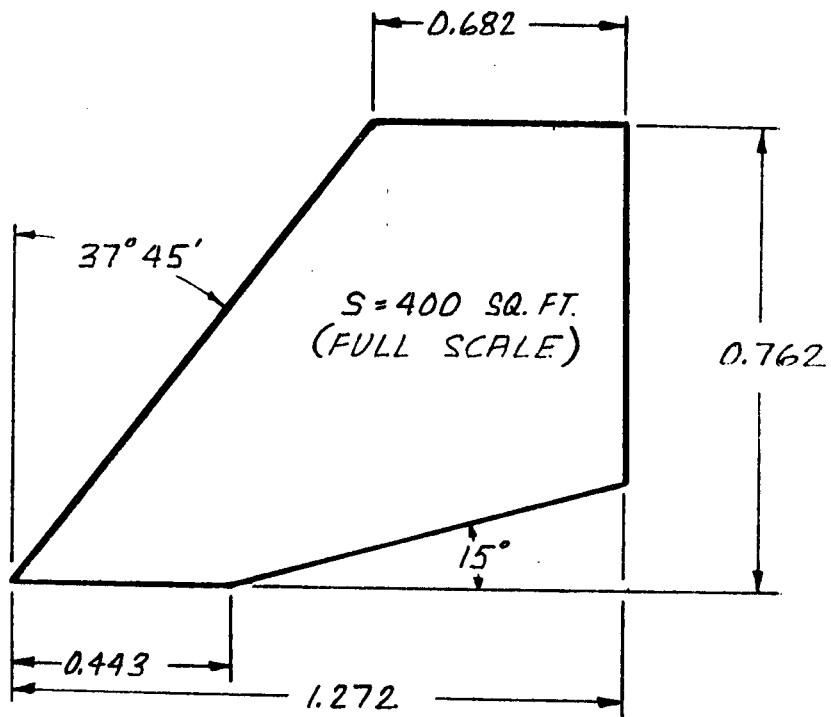


FIGURE 5. TAILS T10 AND T11

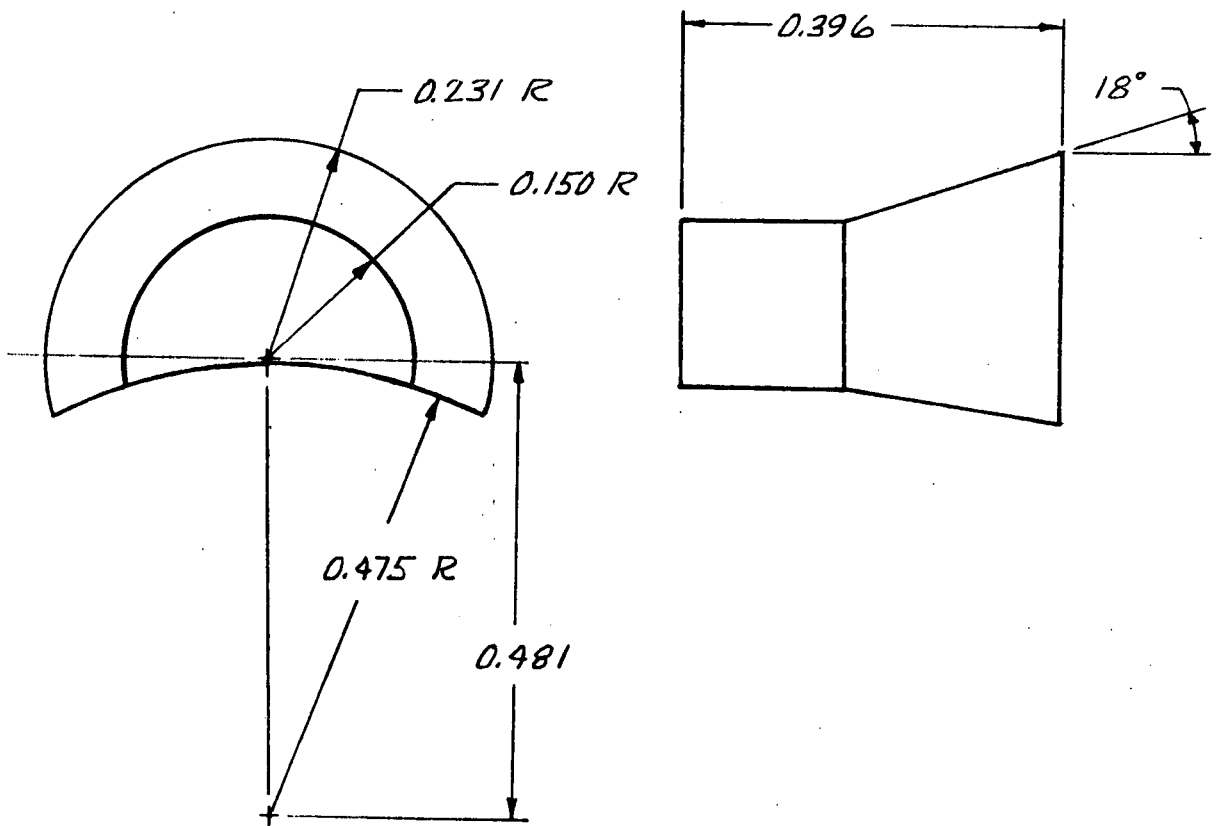


FIGURE 4. ROCKET ENGINE R6

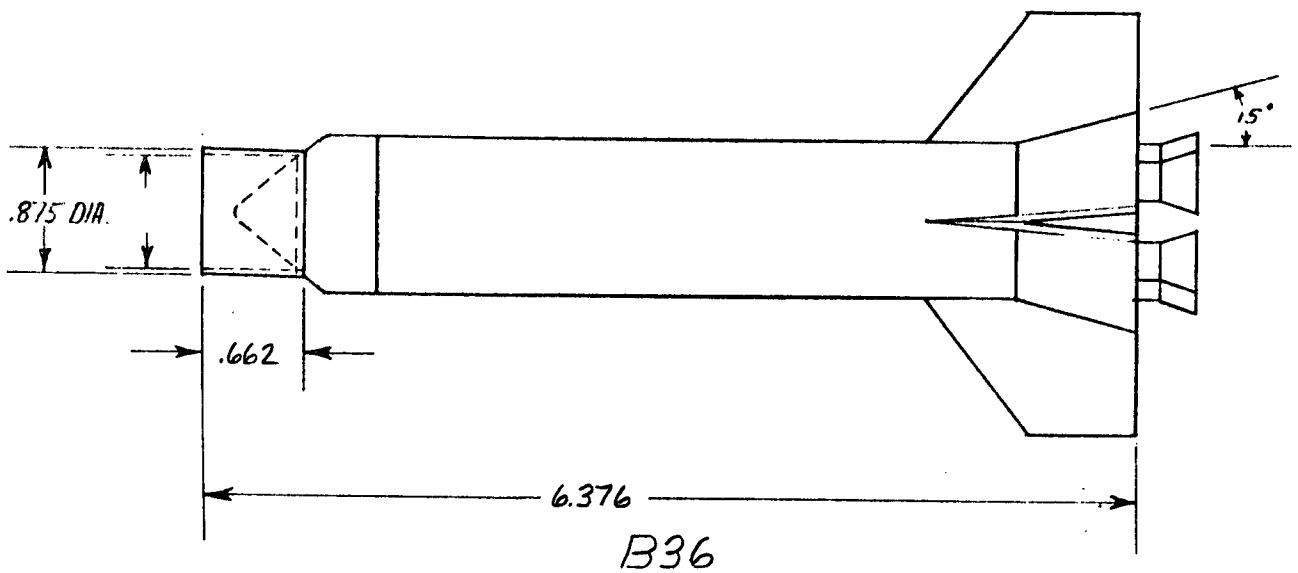
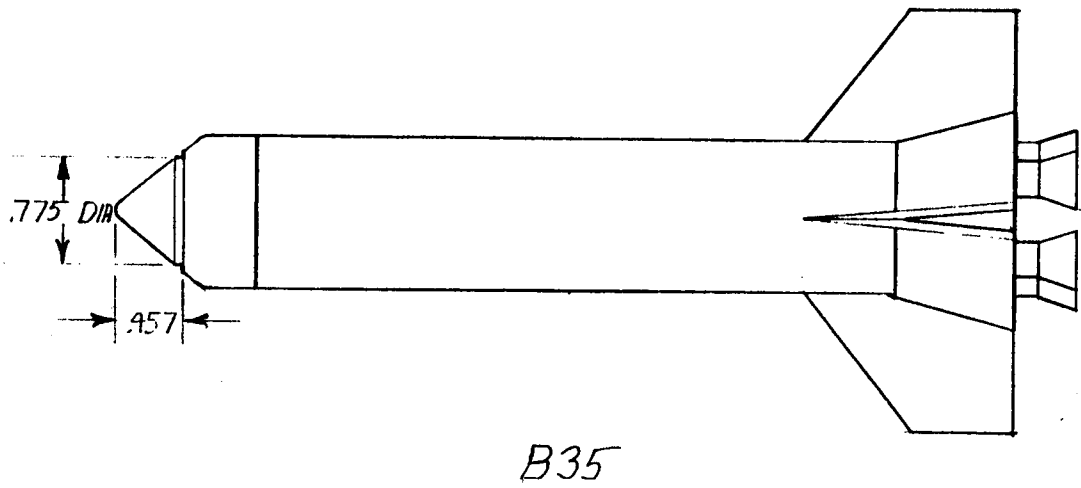
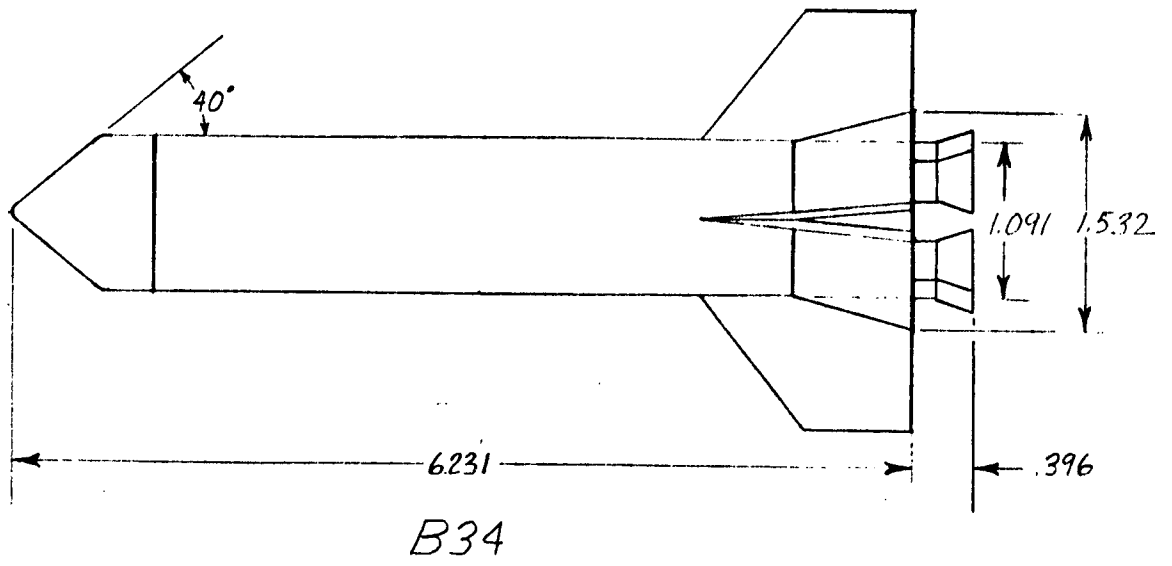


FIGURE 3. BODY B34, B35, B36

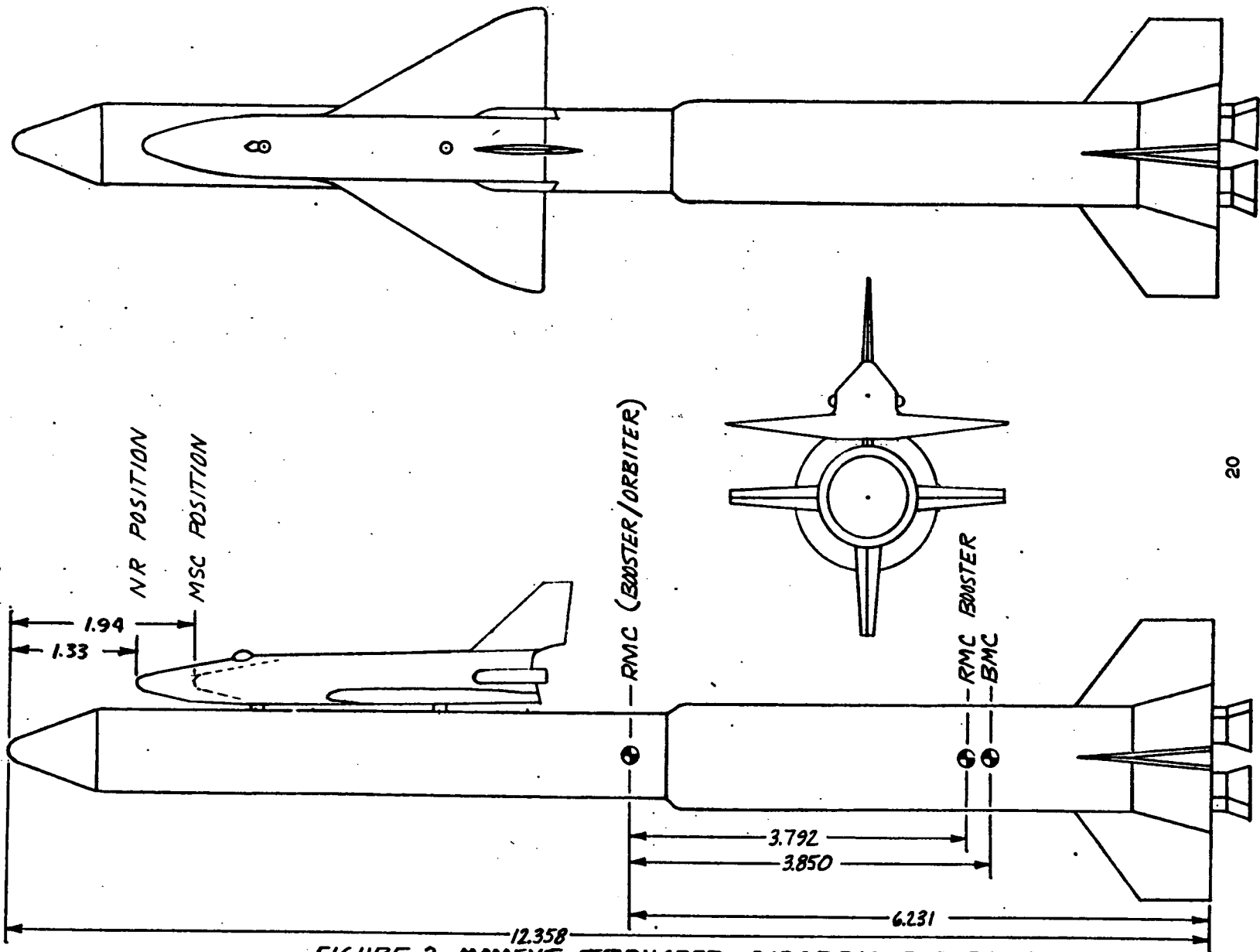


FIGURE 2. MOMENT TRANSFER DIAGRAM AND REFERENCE LENGTHS

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows.
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity.

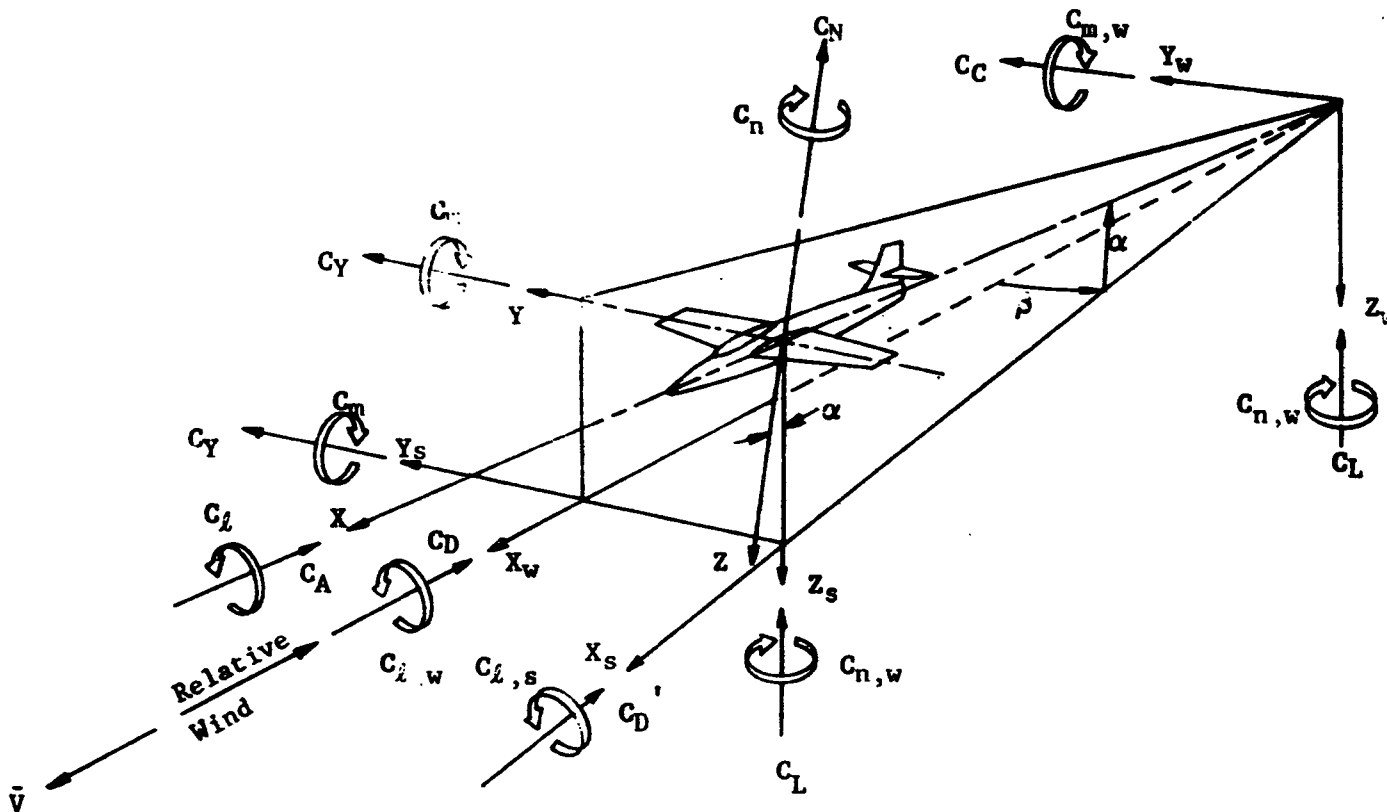


Figure 1. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

FIGURES

TABLE I.

SUMMARY OF SADSAC NOMENCLATURE - AERODYNAMIC FORCE AND MOMENT COEFFICIENTS

COEFFICIENT	COEFFICIENT NAME	SADSAC NOMENCLATURE		
		BODY AXIS	STABILITY AXIS	WIND AXIS
C_A	Total Axial Force	CA	-	-
C_{AB}	Base Axial Force	CAB	--	-
C_{AF}	Forebody Axial Force	CAF	-	-
C_D	Total Drag Force	-	CD	CDTOTL
C_{DB}	Base Drag Force	-	CDB	CDBASE
C_{DF}	Forebody Drag Force	-	CDF	CDFORE
C_L	Lift Force	-	CL	CL
C_N	Normal Force	CN	-	-
C_Y	Side Force	CY	CY	CC
C_l	Rolling Moment	CBL	CSL	CWL
C_m	Pitching Moment	CLM	CLM	CPM
C_n	Yawing Moment	CYN	CLN	CLN
L/D	Lift-To-Drag Force Ratio	-	L/D	CL/CD
L/D	Lift-To-Forebody Drag Force Ratio	-	L/DF	CL/CDF
N/A	Normal-To-Axial Force Ratio	N/A	-	-
N/A	Normal-To-Forebody Axial Force Ratio	CN/CAF	-	-

SUMMARY DATA PLOT INDEX
(CONTINUED)

TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Effects of Booster Tail Size on Launch Configuration	A	Configuration	525-551
Component Buildup for Basic Booster/Fwd Position Orbiter	B	Configuration	552-575
Effects of Booster Tail Size on Launch Configuration	B	Configuration	576-587

PLOTTED COEFFICIENTS SCHEDULE:

(A) CN, CIM, CA, CL, CD, & L/D vs. Alpha

CL vs. CD
CL vs. CIM
CN vs. CIM

(B) CY, CYN, & CBL vs. Beta

CYN vs. CY

SUMMARY DATA PLOT INDEX

TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Effects of Varying Booster Tail Wedge Angle	A	Configuration	1-36
Effects of Fin Size and V Tail on Configuration	A	Configuration	37-108
Effects of Thirty-Five Degree Control Flap Deflection (Single or Double)	A	Configuration	109-180
Effects of Tail Spoilers and Double Thirty-Five Degree Wedges	A	Configuration	181-225
Effects of Horizontal Control Flap Deflection	A	Configuration	226-234
Effects of Skirt and Double Wedge Drag Devices	A	Configuration	235-279
Component Buildup for Interstage Adapter	A	Configuration	280-333
Component Buildup for Basic Booster/Aft Position Orbiter	A	Configuration	334-369
Effects of Various Booster Tail Configurations	A	Configuration	370-405
Component Buildup for Basic Booster/Aft Position Orbiter	B	Configuration	406-421
Effects of Booster Tail Positions on Launch Configuration	B	Configuration	422-433
Effects of Orbiter Tail Size at Alpha = 0 and 2 Degrees	B	Configuration	434-449
Effects of Model Phi = 0, 45 Degrees at Alpha = 0, -6 Degrees	B	Configuration	450-461
Component Buildup for Basic Booster/Fwd Position Orbiter	A	Configuration	462-524

DATA REDUCTION

The calculation of the aerodynamic coefficients was about the body and stability axis reference systems. Data reduction included static tare, base pressure, balance cavity pressure, and where applicable a blade sting slot correction to the balance recorded data. The model dimensional data utilized in computing the aerodynamic coefficients are listed below:

- S_{ref} = booster body cylinder cross sectional area = 0.935 in²
- l_{ref} = booster body length; from nose to aft end of 15° flare = 6.231 in. (measured)
- b_{ref} = booster body cylinder diameter = 1.091 in. (measured)

Two sting arrangements were employed; straight and a blade sting extending through a slot on the aft end of the booster model. Applicable model base, balance cavity, and slot planform areas utilized in the data reduction program are listed below:

	TOP BASE AREA	BOTTOM BASE AREA	CAVITY AREA	SLOT PLANFORM AREA
Straight	.5709	.5709	.7088	0
Blade	.4780	.5709	.7579	.1685

The moment reference point (MRP) for the booster alone configuration is on a line coincident with the body longitudinal centerline, 3.792 inches aft of the nose.

The moment reference point (MRP) for the booster/orbiter configuration is on a line coincident with the body longitudinal centerline, 6.231 inches forward of the booster body base (aft end of 15° flare).

TEST CONDITIONS
TEST MSFC TWT 512

MACH NUMBER	REYNOLDS NUMBER per unit length	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	6.4 x 10 ⁶ /FT	5.51	96
0.9	6.9 x 10 ⁶ /FT	8.03	94
1.1	6.6 x 10 ⁶ /FT	8.76	99
1.2	6.7 x 10 ⁶ /FT	9.18	98
1.46	6.6 x 10 ⁶ /FT	9.48	97
1.96	7.1 x 10 ⁶ /FT	10.20	99
2.74	5.2 x 10 ⁶ /FT	6.37	102
5.00	5.8 x 10 ⁶ /FT	3.25	100

BALANCE UTILIZED: MSFC #232 Balance

CAPACITY:

NF 300 LBS
 SF 143 LBS
 AF 50 LBS
 PM 400 IN-LBS
 YM 192 IN-LBS
 RM 100 IN-LBS

ACCURACY:

COEFFICIENT
TOLERANCE:

COMMENTS:

TEST FACILITY DESCRIPTION
(Continued)

The diffuser section has movable floor and ceiling panels which are the primary means of controlling the subsonic Mach numbers and permit more efficient running supersonically. The sector assembly and supersonic diffuser telescope into the subsonic diffuser to allow easy access to the model and test section.

Tunnel flow is exhausted through an acoustically damped tower to atmosphere or into the vacuum field of 42,000 cubic feet. The vacuum tanks are evacuated by vacuum pumps driven by a total of 500 hp.

Data is recorded by a solid state digital data acquisition system. The digital data is transferred to punched cards during the run to be reduced later by a computer to proper coefficient form.

The tunnel components and performance are discussed in more detail in NASA TM X-53185, dated December 22, 1964, and NASA TM X-53113, dated August 20, 1964.

TEST FACILITY DESCRIPTION

The Marshall Space Flight Center 14" x 14" Transonic Wind Tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from .2 to 5.85 is covered by utilizing two interchangeable test sections. The transonic section permits testing at Mach 0.20 through 2.50, and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between .2 and .9 are obtained by using a controllable diffuser. The range from .95 to 1.3 is achieved through the use of plenum suction and perforated walls. Mach numbers of 1.44, 1.93 and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks are tilted and translated automatically to produce any desired Mach number in .25 increments.

Air is supplied to a 6000 cubic foot storage tank at approximately -40°F dew point and 500 psi. The compressor is a three-stage reciprocating unit driven by a 1500 hp motor.

The tunnel flow is established and controlled with a servo actuated gate valve. The controlled air flows through the valve diffuser into the stilling chamber and heat exchanger where the air temperature can be controlled from ambient to approximately 180°F . The air then passes through the test section which contains the nozzle blocks and test region.

Downstream of the test section is a hydraulically controlled pitch sector that provides a total angle of attack range of 20° ($\pm 10^{\circ}$). Sting offsets are available for obtaining various maximum angles of attack up to 25° .

RUN SCHEDULE DEVIATION

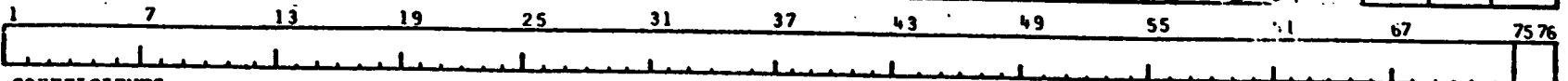
MSC launch configuration dictated booster tails below booster centerline for T12 vee tail. Runs 129 and 130 were inadvertently run with vee tails above the centerline.

Booster alone configuration dictated vee tail T12 above booster centerline. Run 150 was inadvertently run with vee tails below centerline.

PRETEST

POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES			NO. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)											
		α	β	φ ₀	φ ₁	φ ₂		NDV	0.6	0.9	1.1	1.2	1.46	1.96	2.74	5.0			
R50210	B34R6T10φ1T3	-6	D	0	✓		-3.0												
220	B34R6T10φ2T3	-6	D	0	✓		↑												
230	↓	0	D	45	✓														
240	B34R6φ2T3	A	0	0	✓														
250	↓	0	D	0	✓														
260	B34R6T12φ2T3	A	0	0	✓														
270	↓	0	D	0	✓														
280	B34R6T10φ3T3	0	D	0	✓														
290	B34R6T10φ4T3	A	0	0	✓														
300	↓	0	D	0	✓														
310	B34R6T18φ2T3	0	D	0	✓														
320	B34R6T10T3	A	0	0															
330	B34R6T3	A	0	0															
340	B34R6T10φ2T3	-6	D	45	✓		-3.0												
350	B34R6T10φ2T3	A	0	0		✓	0												
360	↓	0	D	0		✓	0												
370	B34R6T10φ2T3	A	0	0		✓	-3.0												
380	↓	0	D	0		✓	-3.0												
390	B34R6T13φ2T3	0	D	0		✓	0												
400	↓	A	0	0		✓	0												



COEFFICIENTS:

α or β
SCHEDULES

NDV | IDPVAR(1) | IDPVAR(2) | NDV

TEST MSFC TWT 512 DATA SET COLLOCATION SHEET

PRETEST
POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)											
		α	β	ϕ_m	NRORS	NRORS	NRORS		0.6	0.9	1.1	1.2	1.46	1.96	2.74	5.00				
R50010	B34R6T10	B	0	0					001/0	002/0	003/0	004/0	004/0	023/0	041/0	040/0				
R50020	B34R6T12	C	0	45					166/0	167/0	168/0	169/0	151/0	170/0	158/0	157/0				
R50030	↓	52	D	45									152/0	171/0	159/0	160/0				
R50040	B34R6T11	B	0	0									015/0	024/0	047/0	046/0				
R50050	B34R6T13	B	0	0									016/0	025/0	050/0	049/0				
R50060	B34R6T14	B	0	0												048/0				
R50070	B34R6T15	B	0	0									017/0	026/0	056/0	055/0				
R50080	B34R6T16	B	0	0												057/0				
R50090	B34R6T17	B	0	0					036/0				018/0	027/0	052/0	051/0				
R50100	B34R6S3T10	B	0	0									013/0	028/0	059/0	058/0				
R50110	B34R6	B	0	45					008/0	009/0	010/0	011/0	012/0	029/0	054/0	053/0				
R50120	↓	C	0	45									153/0	173/0	155/0	156/0				
R50130	B34R6T10	E	0	0						007/0	006/0	005/0								
R50140	B35R6T10	B	0	0					032/0	031/0	030/0									
R50150	B36R6T10	B	0	0					033/0	034/0	035/0		020/0		045/0	044/0				
R50160	B34R6T12	F	0	45					165/0	164/0	163/0	162/0	150/0	172/0	161/0					
R50170	B34R6T10/2T3	A	0	0	✓		-3.0		096/0	097/0	098/0	099/0	149/0		061/0	060/0				
R50180	↑	A	0	45	✓		↑				101/0	100/0	143/0							
R50190	↓	O	D	0	✓				095/0	094/0	092/0	093/0	145/0		063/0	062/0				
R50200	B34R6T10/1T3	O	D	0	✓					125/0	126/0	127/0	134/0							

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CM	CN	CY	CBL	CYN	CA	CAB	CAF	CAC	XCP				

COEFFICIENTS:
 α or β SCHEDULES
 $\alpha A = -10$ TO $+10$ DEG. $\alpha E = +14$ TO -4 DEG.
 $\alpha B = -4$ TO $+14$ DEG. $\alpha F = +20$ TO $+40$ DEG.
 $\alpha C = +40$ TO $+60$ DEG. $\beta D = -10$ TO $+10$ DEG.

IDPVAR(1) IDPVAR(2) NDV

CONFIGURATIONS INVESTIGATED
(Continued)

- T₃ Orbiter tank with a length of 176.5 ft. and a diameter of 21.7 ft. Tank mounted tandem on booster.
- O₁ Orbiter with small planform vertical tail.
- O₂ Same as O₁ except large planform vertical tail.
- O₃ Same as O₁ except vertical tail removed.
- O₄ Same as O₁ except vertical tail and wing removed.

Pertinent dimensional information for each of these components is given in the Model Component Description Sheets which follow the Figures. The Dataset Collation Sheets show the various component combinations tested and summarizes the total test conditions.

CONFIGURATIONS INVESTIGATED

The following model components were utilized during the test (see Figures 2-13):

<u>Symbol</u>	<u>DESCRIPTION</u>
B ₃₄	Basic body with 40 degree nose cone and 15 degree aft flare full scale length is 154.3 ft with 27.0 ft diameter.
B ₃₅	Same as B ₃₄ except notched nose cone.
B ₃₆	Same as B ₃₅ except cylindrical interstage attached to 40 degree nose cone.
R ₆	Rocket engines in cluster of six located around base. No center engine.
T ₁₀	Wedge section clipped delta tail. 5 degree half angle of wedge. S = 400 ft ² . Four panels.
T ₁₁	Same as T ₁₀ only an 8° half angle of wedge.
T ₁₂	Same as T ₁₀ only two panels mounted in Vee arrangement. Vee above centerline for booster configuration, below centerline for booster/orbiter configuration.
T ₁₃	Wedge section clipped delta tail with 5 degree half angle of wedge. S = 600 ft ² . Four panels.
T ₁₄	Same as T ₁₀ with a 35 degree wedge on left side of all fins.
T ₁₅	Same as T ₁₀ with a spoiler at fin trailing edge to simulate a 35° wedge deflection.
T ₁₆	Same as T ₁₀ with a 35 degree wedge on the top of the two horizontal fins.
T ₁₇	Same as T ₁₀ with 35 degree wedge on both sides of all fins.
T ₁₈	Same as T ₁₀ except top vertical tail removed ($\phi_m = 0$).

I N T R O D U C T I O N

This report presents the results, in plotted form, for MSFC Test 512 utilizing the 0.003366 scale Convair Space Shuttle Pressure-Fed Booster B19B. The isolated booster was tested to represent the re-entry configuration. The booster with the O40A orbiter in a tandem arrangement was tested to represent the launch configuration. This test was conducted in the Marshall Space Flight Center 14 x 14 inch Trisonic Wind Tunnel starting 22 November 1971. (Test TWT 512).

The primary purpose of this test was to determine the longitudinal and lateral-directional characteristics of both the booster and the launch configuration. The test was conducted over a Mach range of 0.6 to 5.0 and an angle of attack range of -4 to 16 degrees and a yaw range of -10 to +10 degrees. In addition the booster was tested from 40 to 60 degrees angle of attack.

Data acquisition technique was divided into the following categories:

- a) Force and moment data
- b) Balance cavity pressure data
- c) Base pressure data
- d) Schlieren photographs
- e) Tunnel conditions

A six component force and moment balance was furnished by the Marshall Space Flight Center.

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A B S T R A C T

The 0.003366 scale models of the General Dynamics/Convair Aerospace Space Shuttle Pressure Fed Booster and Booster/Orbiter configurations were tested in the MSFC 14-inch Trisonic Wind Tunnel during the period from November 23 to December 1, 1971. The test was conducted as a static stability and control investigation over a Mach range of 0.60 to 5.00. The booster alone configuration was tested with various tail sizes, tail wedge angles, tail flaps, spoilers, and a body flare drag skirt. Two launch configurations were tested; one being the MSC orbiter location on the booster tank and the other being the North American Rockwell orbiter location. Orbiter buildup, longitudinal position, incidence angle, and booster tail on and off were the variables for launch configuration. Booster alone models were pitched over an angle of attack range of -4 to $+14$ and $+20$ to $+60$ degrees at zero degrees yaw angle and yawed over an angle of sideslip range of -10 to $+10$ degrees at 52 degrees angle of attack. Models were rolled 45 degrees during selected runs. Launch configuration models were yawed -10 to $+10$ degrees at zero degrees angle of attack and yawed -10 to $+10$ degrees at zero and minus six degrees angle of attack. Models were rolled 45 degrees during selected runs.

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SADSAC/SPACE SHUTTLE
WIND TUNNEL TEST DATA REPORT

CONFIGURATION: 0.003366 Scale Space Shuttle Pressure Fed Booster B19B and B19B Booster/040A Orbiter

TEST PURPOSE: To Determine the Longitudinal and Lateral-Directional Characteristics of Both the Booster and the Launch Configuration.

TEST FACILITY: NASA/MSFC 14" x 14" Trisonic Wind Tunnel

TESTING AGENCY: General Dynamics/Convair Aerospace Division

TEST NO. & DATE: MSFC TWT 512; November 22, 1971

FACILITY COORDINATOR: Mr. Jim Weaver - NASA/MSFC

PROJECT ENGINEER(S): Mr. R. F. McGinnis - (GD/C)
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CONTRACT NAS 8-4016

AMENDMENT 153

DRL 184-58

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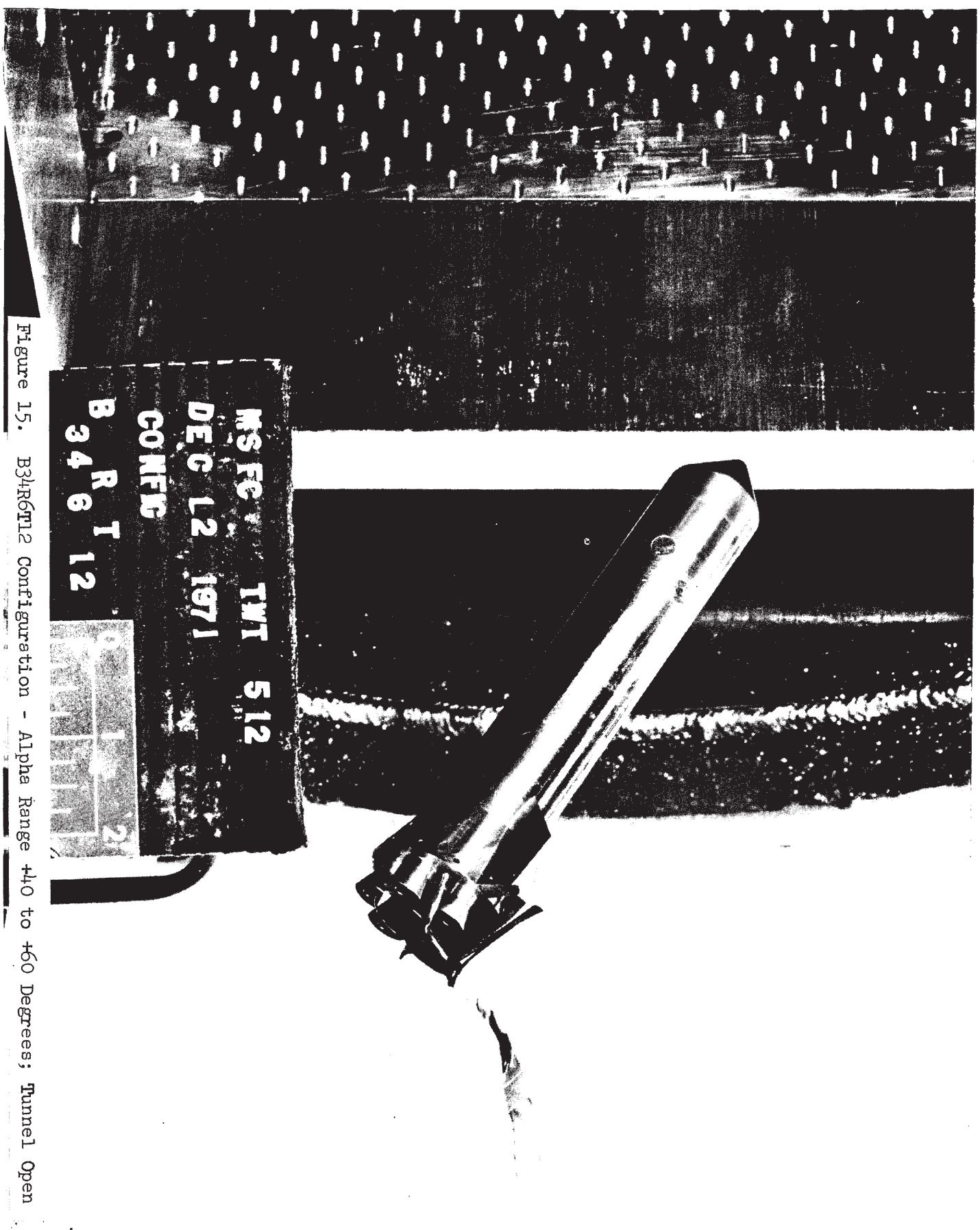
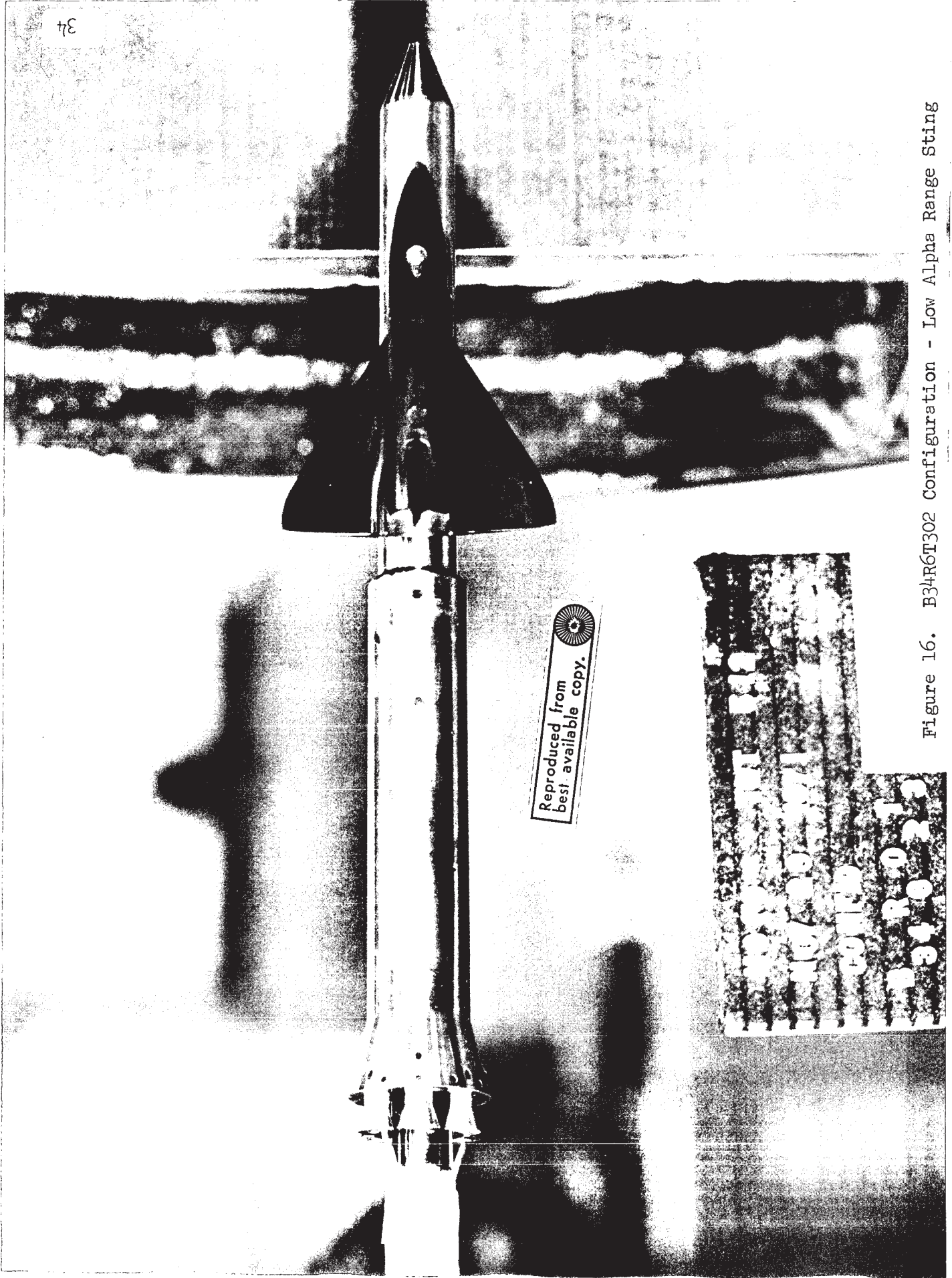


Figure 15. B34R6P12 Configuration - Alpha Range +40 to +60 Degrees; Tunnel Open



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ENGINEERING
CORPORATION
B34R6T302

Figure 16. B34R6T302 Configuration - Low Alpha Range Sting

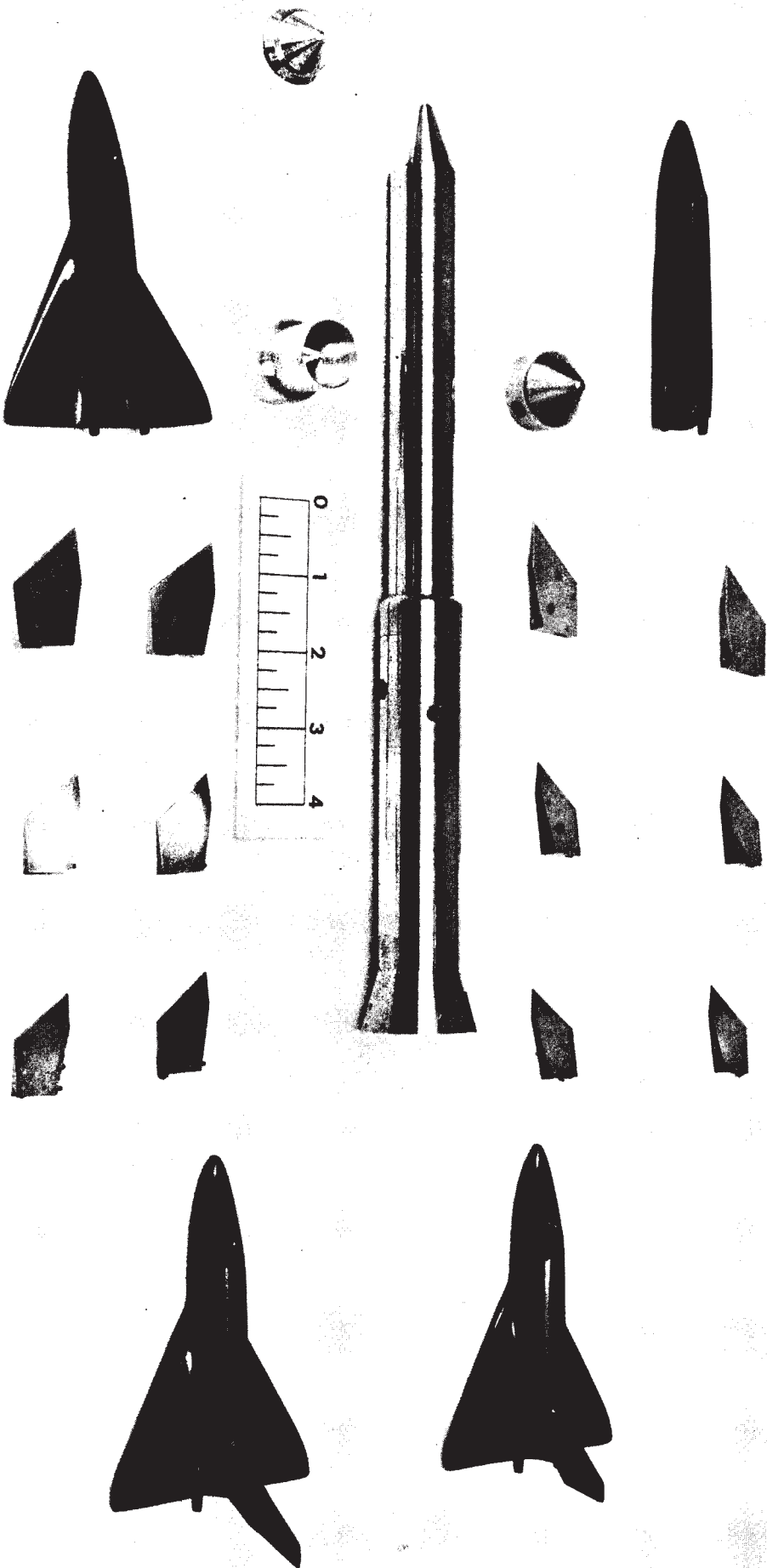


Figure 17. MSFC TWTM 512 Model Components

NASA-MSFC
S&E-Aero-AE

12-03-71

183-71

MODEL COMPONENT DESCRIPTION SHEETS

MODEL COMPONENT: BODY - B₃₄

GENERAL DESCRIPTION: 0.003366 Scale Cylindrical Body with 40 Degree Cone
Nose and 15 degree flare at aft eng.

DRAWING NUMBER: WT-71-105230

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u> <u>FT/FT²</u>	<u>MODEL SCALE</u> <u>IN/IN²</u>
Length	<u>153.9</u>	<u>6.216</u>
Max. Width, Cylinder (Flare)	<u>27.0 (38.0)</u>	<u>1.091 (1.535)</u>
Max. Depth, Cylinder (Flare)	<u>27.0 (38.0)</u>	<u>1.091 (1.535)</u>
Fineness Ratio	<u>5.7/1</u>	<u>5.7/1</u>
Area		
Max. Cross-Sectional, Cylinder	<u>573.1</u>	<u>0.935</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u>1134.5</u>	<u>1.851</u>

MODEL COMPONENT: BODY - B35

GENERAL DESCRIPTION: Same as B34 except notched nose where interstage adapter attaches.

DRAWING NUMBER: WT-71-105230

DIMENSIONS:

	<u>FULL-SCALE</u> <u>FT/FT²</u>	<u>MODEL SCALE</u> <u>IN/IN²</u>
Length	<u>154.3</u>	<u>6.231</u>
Max. Width, Cylinder (Flare)	<u>27.0 (38.0)</u>	<u>1.091 (1.532)</u>
Max. Depth, Cylinder (Flare)	<u>27.0 (38.0)</u>	<u>1.091 (1.532)</u>
Fineness Ratio	<u>5.7/1</u>	<u>5.7/1</u>
Area		
Max. Cross-Sectional, Cylinder	<u>573.1</u>	<u>0.935</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u>1134.5</u>	<u>1.851</u>

MODEL COMPONENT: BODY - B36

GENERAL DESCRIPTION: Same as B34 except cylindrical interstage
adapter attached to nose.

DRAWING NUMBER: _____

DIMENSIONS:

	<u>FULL-SCALE</u> <u>FT/FT²</u>	<u>MODEL SCALE</u> <u>IN/IN²</u>
Length	<u>157.9</u>	<u>6.376</u>
Max. Width, Cylinder (Flare)	<u>27.0 (38.0)</u>	<u>1.091 (1.532)</u>
Max. Depth, Cylinder (Flare)	<u>27.0 (38.0)</u>	<u>1.091 (1.532)</u>
Fineness Ratio	<u>5.8/1</u>	<u>5.8/1</u>
Area		
Max. Cross-Sectional, Cylinder	<u>573.1</u>	<u>0.935</u>
Planform	_____	_____
Wetted	_____	_____
Base	<u>1134.5</u>	<u>1.851</u>

MODEL COMPONENT: BODY - Rocket Engine R₆

GENERAL DESCRIPTION: Rocket engine. A total of six are located on
outside ring of base plate. Dimensions given are for exposed model
combustion chamber and nozzle.

DRAWING NUMBER: WT-71-105230

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
	<u>Ft/Ft²</u>	<u>in/in²</u>
Length	<u>9.8</u>	<u>0.396</u>
Max. Width (Diameter)	<u>11.4</u>	<u>0.461</u>
Max. Depth	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max. Cross-Sectional	<u>57.6</u>	<u>0.094</u>
Planform	<u>85.2</u>	<u>0.139</u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

MODEL COMPONENT: Tail - T₁₀

GENERAL DESCRIPTION: 0.003366 scale clipped delta tail 5° wedge half angle.

Four panels.

DRAWING NUMBER: WT-71-105230

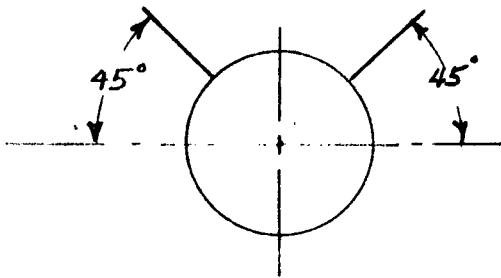
<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>Ft/Ft²</u> <u>400</u>	<u>in/in²</u> <u>0.652</u>
Span (equivalent)	<u>18.9</u>	<u>0.762</u>
Inb'd equivalent chord	<u>31.5</u>	<u>1.272</u>
Outb'd equivalent chord	<u>16.9</u>	<u>0.682</u>
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord	<u>0.30</u>	<u>0.30</u>
At Outb'd equiv. chord	<u>0.30</u>	<u>0.30</u>
Sweep Back Angles, degrees		
Leading Edge	<u>37°45'</u>	<u>37°45'</u>
Tailing Edge	<u>0</u>	<u>0</u>
Hingeline	<u> </u>	<u> </u>
Area Moment (Normal to hinge line)	<u> </u>	<u> </u>

T_{11}

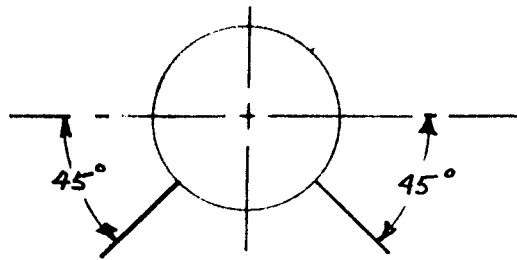
Same as T_{10} only with 8 degree wedge half angle.

T₁₂

Same as T₁₀ only 2 panels mounted in Vee Arrangement.



Booster Alone
Configuration



Booster/Orbiter
Configuration

MODEL COMPONENT: Tail - T₁₃

GENERAL DESCRIPTION: 0.003366 scale clipped delta tail 5° wedge half angle.

Four panels

DRAWING NUMBER:

WT-71-105230

DIMENSIONS:

	<u>FULL-SCALE</u> <u>Ft/Ft²</u>	<u>MODEL SCALE</u> <u>in/in²</u>
Area	<u>600</u>	<u>0.979</u>
Span (equivalent)	<u>23.0</u>	<u>0.931</u>
Inb'd equivalent chord	<u>37.1</u>	<u>1.498</u>
Outb'd equivalent chord	<u>19.8</u>	<u>0.800</u>
	<u> </u>	<u> </u>
	<u> </u>	<u> </u>
Leading Edge	<u>36.8</u>	<u>36.8</u>
Trailing Edge	<u>0</u>	<u>0</u>

T₁₄

Same as T₁₀ with 35 degree wedge on left side of all fins.

T₁₅

Same as T₁₀ with spoiler at T. E. edge on all fins.

T_{16}

Same as T_{10} with 35 degree wedge on top of two horizontal fins.

T_{17}

Same as T_{10} with 35 degree wedge on both surfaces of all fins.

T₁₈

Same as T₁₀ with top vertical tail removed. Three panels total.

MODEL COMPONENT: Tank - T₃

GENERAL DESCRIPTION: 0.003366 scale HO tank at 0° incidence

DRAWING NUMBER: WT-71-105230

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u> Ft/Ft ²	<u>MODEL SCALE</u> in/in ²
Length	<u>128.7</u>	<u>5.200</u>
Diameter	<u>21.7</u>	<u>0.875</u>
Inb'd equivalent chord	_____	_____
Outb'd equivalent chord	_____	_____
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord	_____	_____
At Outb'd equiv. chord	_____	_____
Sweep Back Angles, degrees		
Leading Edge	_____	_____
Trailing Edge	_____	_____
Hingeline	_____	_____
Area Moment (Normal to hinge line)	_____	_____
Incidence Angle	<u>0°</u>	<u>0°</u>

MODEL COMPONENT: BODY - Drag Skirt S3

GENERAL DESCRIPTION: A total of four are located on the 15° aft body flare
between tail panels. Each skirt makes a 60 degree flare with a 45°
included angle

DRAWING NUMBER: WT-71-105230

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u> <u>FT/FT²</u>	<u>MODEL SCALE</u> <u>IN/IN²</u>
Length	_____	_____
Max. Width	_____	_____
Max. Depth	_____	_____
Fineness Ratio	_____	_____
Area		
Max. Cross-Sectional	_____	_____
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

MODEL COMPONENT: Orbiter 01
 GENERAL DESCRIPTION: Modified MSC 040A orbiter. Overall length
shortened by reducing trailing edge angle from a swept forward to
zero degrees.

DRAWING NUMBER:

DIMENSIONS - EXPOSED:	FULL SCALE FT/FT ²	MODEL SCALE IN/IN ²
Area		
Span (equivalent)	74.0	2.998
Aspect Ratio		
Taper Ratio	0	0
Dihedral Angle	+7.0 DEG	+7.0 DEG
Incidence Angle	+2.0 DEG	+2.0 DEG
Sweep Back Angles		
Leading Edge	60 DEG	60 DEG
Trailing Edge	0 DEG	0 DEG
0.25 Chord Line		
Chords		
Root, Exposed	58.3	2.357
Tip	0	0
MAC		
Airfoil Section		
Root		
Tip		
Fuse. Sta. of .25 MAC		
W.L. of .25 MAC		
B.L. of .25 MAC		
Pivot Location		
Percent root chord		
Fuselage station		
Water line		

MODEL COMPONENT: Orbiter 02

GENERAL DESCRIPTION: Same as 01 except larger vertical tail.

DRAWING NUMBER:

DIMENSIONS - EXPOSED:

	FULL SCALE FT/FT ²	MODEL SCALE IN/IN ²
Area		
Span (equivalent)	74.0	2.998
Aspect Ratio		
Taper Ratio	0	0
Dihedral Angle	7.0 DEG	7.0 DEG
Incidence Angle	2.0 DEG	2.0 DEG
Sweep Back Angles		
Leading Edge	60 DEG	60 DEG
Trailing Edge	0 DEG	0 DEG
0.25 Chord Line		
Chords		
Root, Exposed	58.3	2.357
Tip	0	0
MAC		
Airfoil Section		
Root		
Tip		
Fuse. Sta. of .25 MAC		
W.L. of .25 MAC		
B.L. of .25 MAC		
Pivot Location		
Percent root chord		
Fuselage station		
Water line		

MODEL COMPONENT: Orbiter 03

GENERAL DESCRIPTION: Same as O1 except vertical tail removed.

DRAWING NUMBER:

DIMENSIONS - EXPOSED:

	FULL SCALE FT/FT ²	MODEL SCALE IN/IN ²
Area		
Span (equivalent)	74.0	2.998
Aspect Ratio		
Taper Ratio	0	0
Dihedral Angle	7.0 DEG	7.0 DEG
Incidence Angle	2.0 DEG	2.0 DEG
Sweep Back Angles		
Leading Edge	60 DEG	60 DEG
Trailing Edge	0 DEG	0 DEG
0.25 Chord Line		
Chords		
Root	58.3	2.357
Tip	0	0
MAC		
Airfoil Section		
Root		
Tip		
Fuse. Sta. of .25 MAC		
W.L. of .25 MAC		
B.L. of .25 MAC		
Pivot Location		
Percent root chord		
Fuselage station		
Water line		

MODEL COMPONENT: Orbiter 04

GENERAL DESCRIPTION: Same as O1 except vertical tail and wing removed.

DRAWING NUMBER:

DIMENSIONS - EXPOSED:

FULL SCALE

MODEL SCALE

Area

Span (equivalent)

Aspect Ratio

Taper Ratio

Dihedral Angle

Incidence Angle

Sweep Back Angles

 Leading Edge

 Trailing Edge

 0.25 Chord Line

Chords

 Root

 Tip

 MAC

Airfoil Section

 Root

 Tip

Fuse. Sta. of .25 MAC

W.L. of .25 MAC

B.L. of .25 MAC

Pivot Location

 Percent root chord

 Fuselage station

 Water line

NOMENCLATURE

(General)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
α	ALPHA	angle of attack, angle between the projection of the wind X_w -axis on the body X, Z-plane and the body X-axis; degrees
β	BETA	sideslip angle, angle between the wind X_w -axis and the projection of this axis on the body X-Z-plane; degrees
ψ	PSI	yaw angle, angle of rotation about the body Z-axis, positive when the positive X-axis is rotated toward the positive Y-axis; degrees
ϕ	PHI	roll angle, angle of rotation about the body X-axis, positive when the positive Y-axis is rotated toward the positive Z-axis; degrees
ρ		air density; K_g/m^3 , slugs/ft ³
a		speed of sound; m/sec, ft/sec
V		speed of vehicle relative to surrounding atmosphere; m/sec, ft/sec
q	Q(PSI) Q(PSF)	dynamic pressure; $1/2\rho V^2$, psi, psf
M	MACH	Mach number; V/a
RN/L	RN/L	Reynolds number per unit length; million/ft
p		static pressure; psi
P		total pressure; psi
C_p	CP	pressure coefficient; $(p-p_\infty)/q$

NOMENCLATURE (Continued)

Reference & C. G. Definitions

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
S		wing area; m^2 , ft^2
S	SREF	reference area; m^2 , ft^2
\bar{c}		wing mean aerodynamic chord or reference chord; m, ft, in (see l_{ref} or LREF)
l_{ref}	LREF	reference length; m, ft, in.; (see \bar{c})
b_{ref}	BREF	wing span or reference span; m, ft, in
A_b		base area; m^2 , ft^2 , in^2
c. g.		center of gravity
MRP	MRP	abbreviation for moment reference point
	XMRP	abbreviation for moment reference point on X-axis
	YMRP	abbreviation for moment reference point on Y-axis
	ZMRP	abbreviation for moment reference point on Z-axis

NOMENCLATURE (Continued)

Axis System General

SYMBOL

DEFINITION

F

force; F, lbs

M

moment; M, in-lb

Subscript

Definition

N

normal force

A

axial force

L

lift force

D

drag force

Y

force or moment about the Y axis

Z

moment about the Z axis

X

moment about the X axis

s

stability axis system

w

wind axis system

ref

reference conditions

∞

free stream conditions

t

total conditions

b

base

NOMENCLATURE (Continued)
Body & Stability Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
<u>Body Axis System</u>		
C_N	CN	normal force coefficient; F_N/qS
C_A	CA	axial force coefficient; F_A/qS
C_{A_b}	CAB	base axial force coefficient; $\begin{bmatrix} -1 \\ \end{bmatrix} \begin{bmatrix} (P_b - P_\infty)/q \end{bmatrix} (A_b/S)$
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_n	CYN	yawing moment coefficient; $M_Z/qS b_{ref}$
C_l	CBL	rolling moment coefficient; $M_X/qS b_{ref}$
<u>Common to Both Axis Systems</u>		
C_m	CLM	pitching moment coefficient; $M_Y/qS l_{ref}$
C_y	CY	side force coefficient; F_Y/qS
<u>Stability Axis System</u>		
C_L	CL	lift force coefficient; F_L/qS
C_D	CD	drag force coefficient; F_D/qS
C_{D_b}	CDB	base drag coefficient
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_n	CLN	yawing moment coefficient; $M_{Z,s}/qS b_{ref}$
C_l	CSL	rolling moment coefficient; $M_{X,s}/qS b_{ref}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D _f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (Continued)

Surface Definitions

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
1t	HORIZT	horizontal tail incidence; positive when trailing edge down; degrees
δ		symmetrical surface deflection angle; degrees; positive deflections are:
	AILRON	aileron - total aileron deflection; (left aileron - right aileron)/2
	CANARD	canard - trailing edge down
	ELEVON	elevon - trailing edge down
	ELEVTR	elevator - trailing edge down
	FLAP	flap - trailing edge down
	RUDDER	rudder - trailing edge to the left
	SPOILR	spoiler - trailing edge down
	TAB	tab - trailing edge down with respect to control surface
δ		antisymmetrical surface deflection angle, degrees; positive trailing edge down:
	AIL-L	left aileron - trailing edge down
	AIL-R	right aileron - trailing edge down
	ELVN-L	left elevon - trailing edge down
	ELVN-R	right elevon - trailing edge down
	SPLR-L	left spoiler - trailing edge down
	SPLR-R	right spoiler - trailing edge down

<u>SURFACE SUBSCRIPTS</u>	<u>DEFINITION</u>
a	aileron
b	base
c	canard
e	elevator or elevon
f	flap
r	rudder or ruddervator
s	spoiler
t	tail

ADDITIONS TO NOMENCLATURE

PLOT PARAMETRIC NOMENCLATURE

<u>SYMBOL</u>	<u>DEFINITION</u>
HFLAP	Booster horizontal tail flap angle (top side only), degrees
INCID. ANGLE	Orbiter incidence angle, measured in orbiter vertical plane from orbiter top fuselage surface to tank top surface, degrees
LFLAP	Booster tail flap angle, left side looking forward, degrees
NASORB	NASA (MSC) orbiter incidence angle, degrees
NRORB	North American Rockwell orbiter incidence angle, degrees
PHIMOD	Booster body roll angle ($\phi_m = 0$ when tails coincident with tunnel Y and Z axes), degrees
RFLAP	Booster tail flap angle, right side looking forward, degrees
SKIRT	S3 drag skirt total angle, degrees
SPOILR	Tail T15 simulated half angle (one side only), degrees
VFLAP	Booster vertical tail flap angle (either side), degrees

TABULATED DATA LISTING

A tabulated data listing, consisting of all aero data sets, both original and those created in arriving at the plotted material to be presented subsequently, is available as an addendum to this report. The tabular listing is made up in two sections:

- (a) a brief summary list of all data sets containing the identifier, the descriptor, and the resident dependent variables.
- (b) a full list of all data sets containing all resident or selected aerodynamic coefficients of the data sets as well as the above mentioned information.

The listing is currently sent on limited distribution to the following organizations:

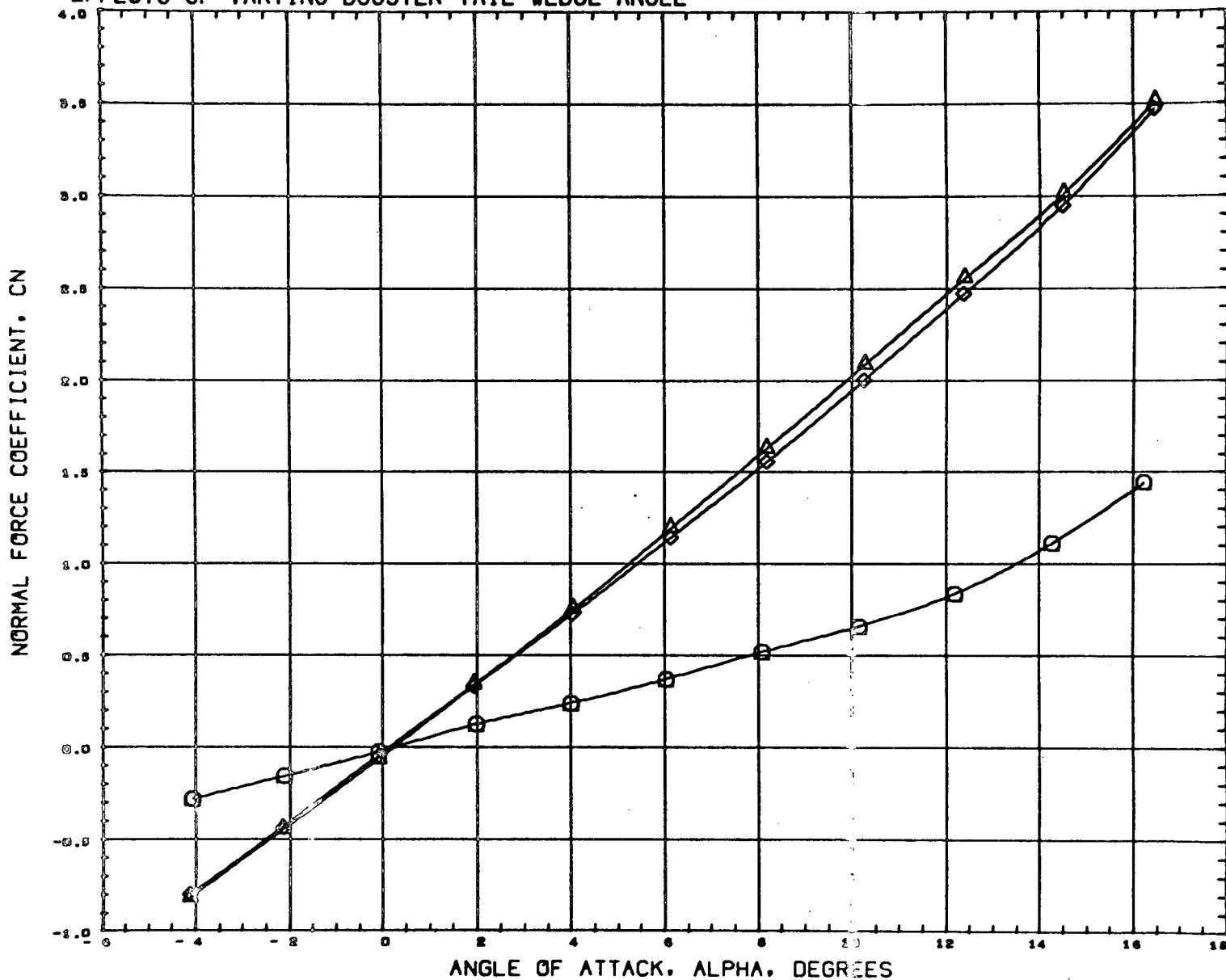
NASA AMES	Mr. V. Stevens
NASA MSFC	Mr. J. Weaver
GD/C	Mr. R. Lanflisi

If copies of this listing are desired, please contact the above or the cognizant SADSAC personnel who, for this data, is:

Mr. A. D. Martin
Chrysler Space Division
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P. O. Box 29200
New Orleans, Louisiana 70129
Phone: (504) 255-2304

P L O T T E D D A T A

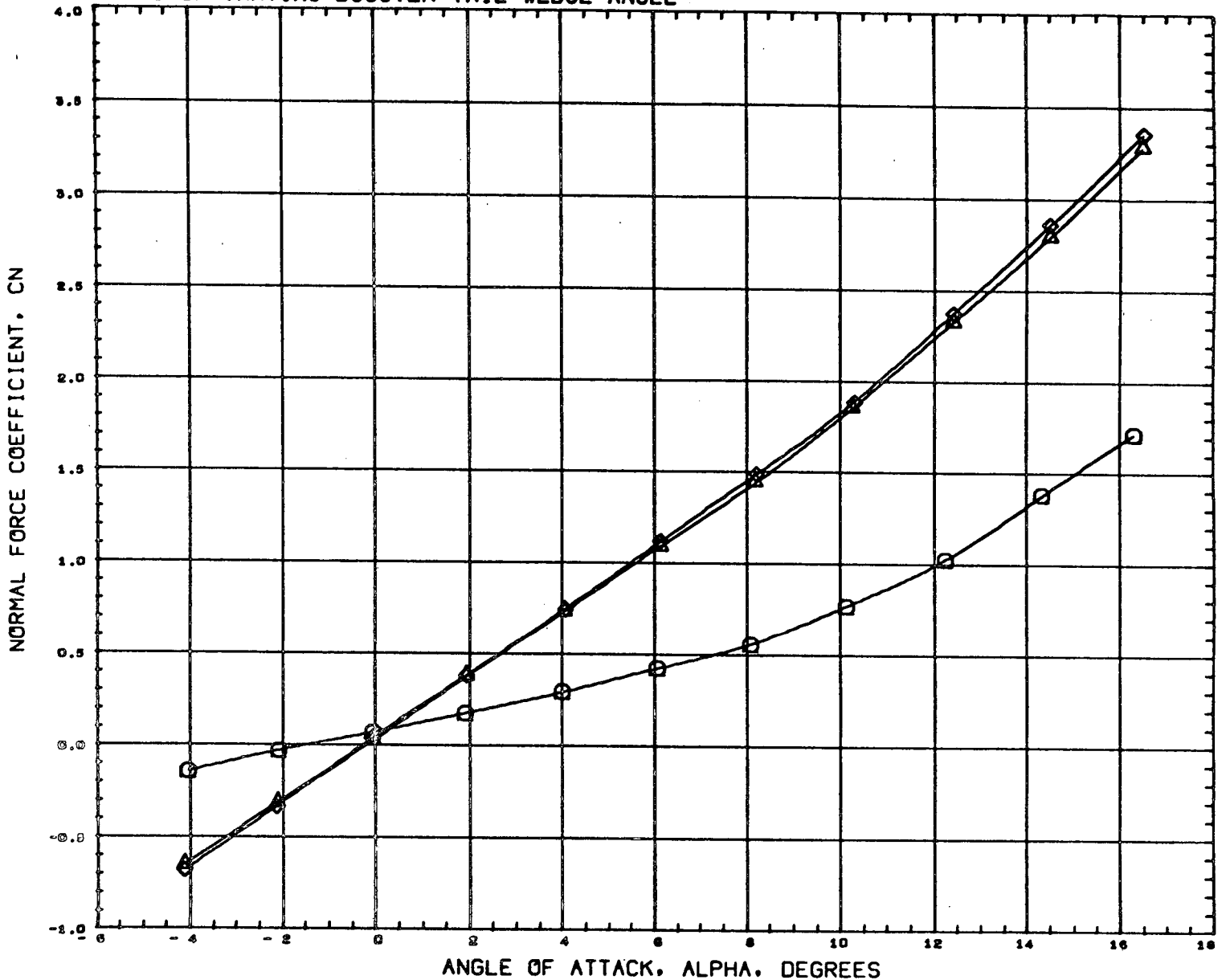
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	BREF	0.9350 80. IN.
(E90010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D90040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.458

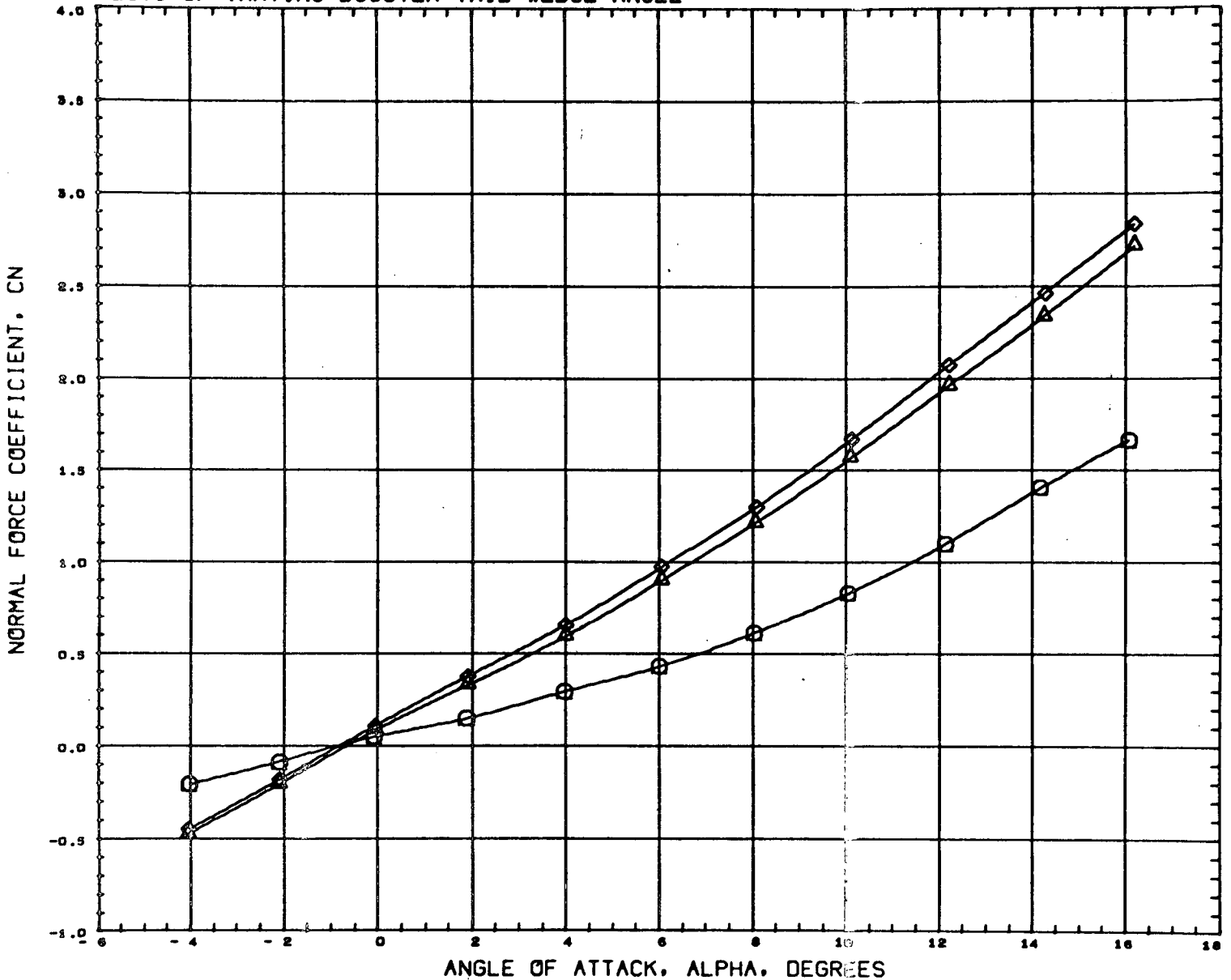
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(250110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 80. IN.
(250010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(050040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

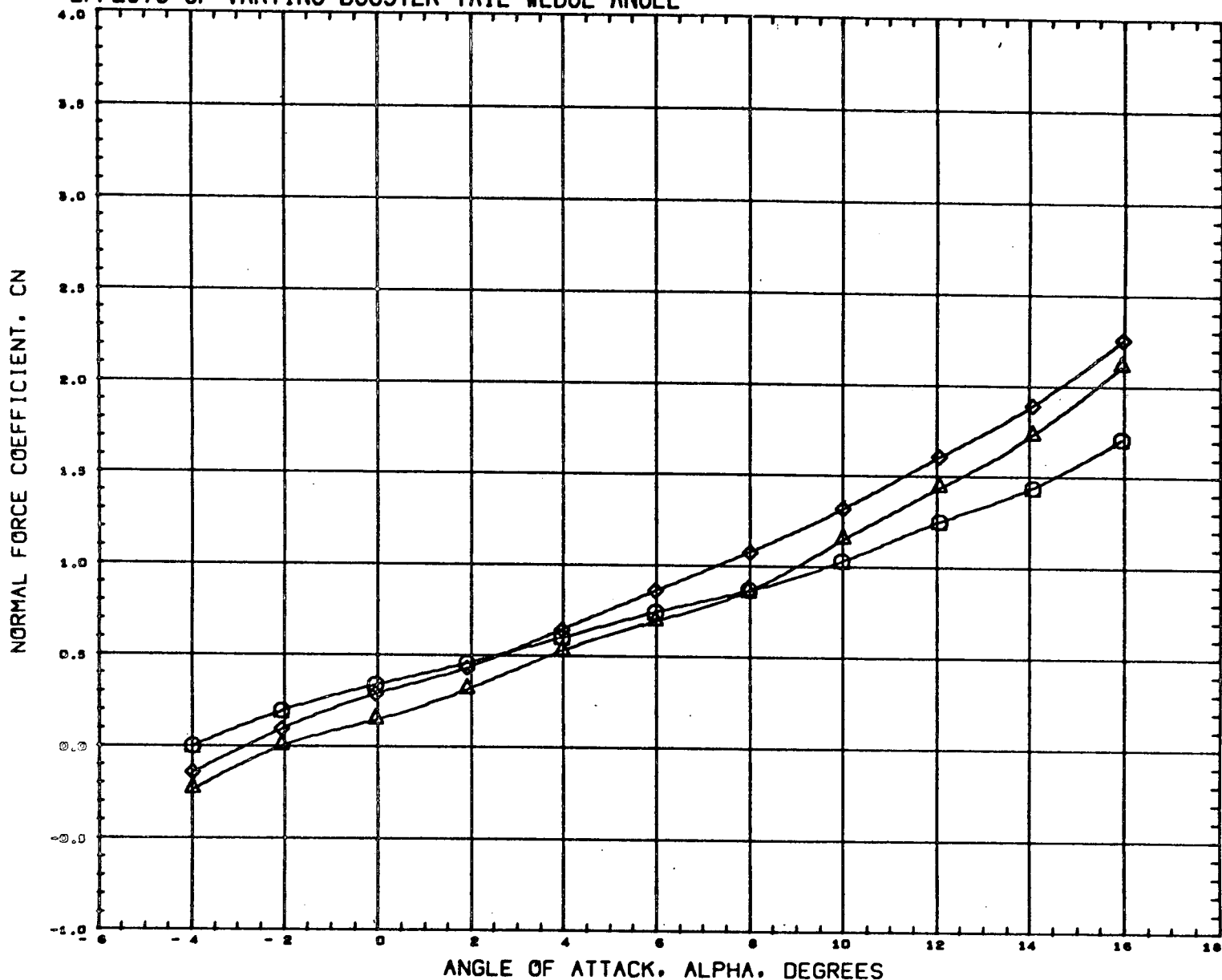
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MBFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E50010)	MBFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	MBFC 512 GD/C .003366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

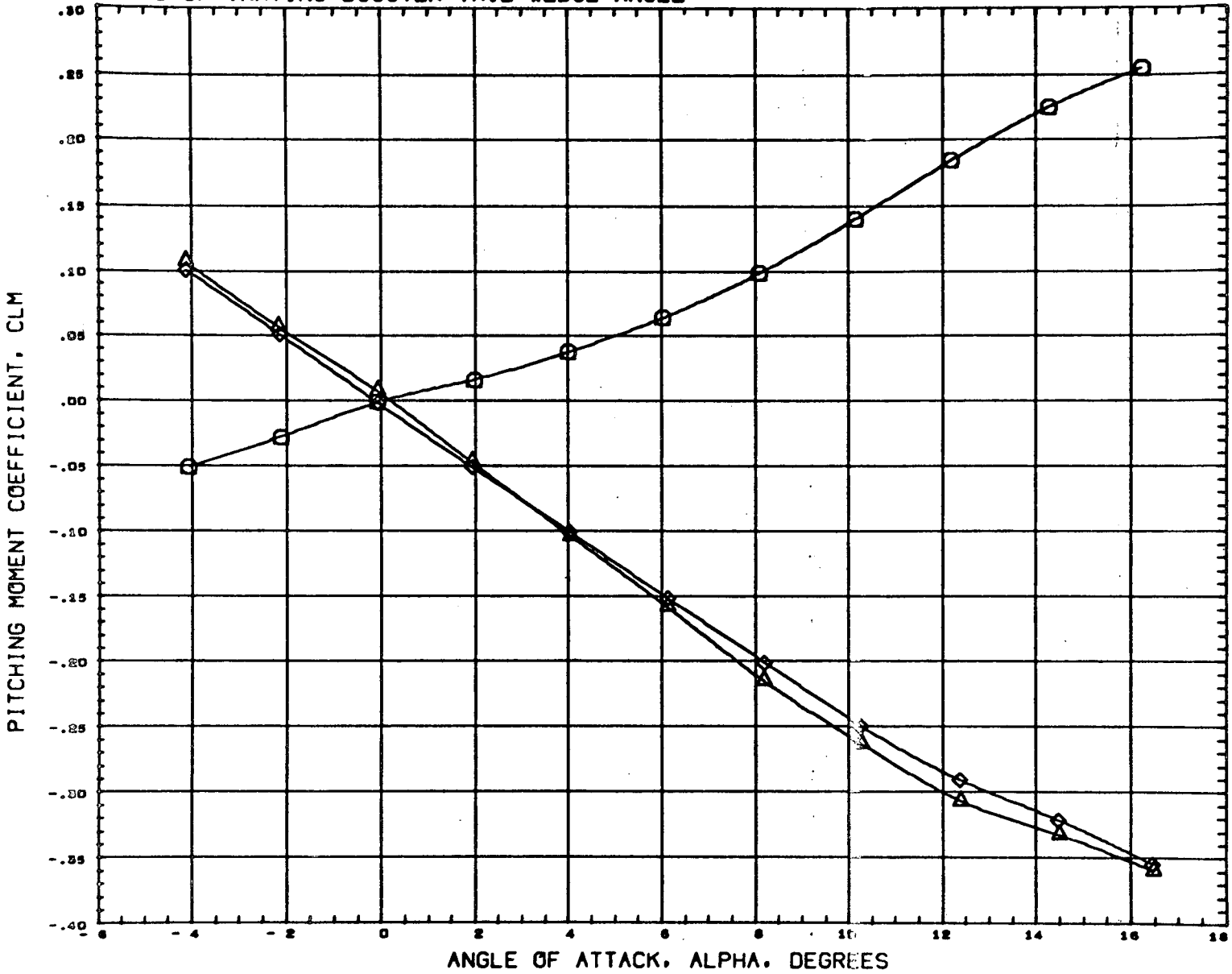
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 SQ. IN.
(E50030)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50040)	M8FC 512 GD/C .003366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.959

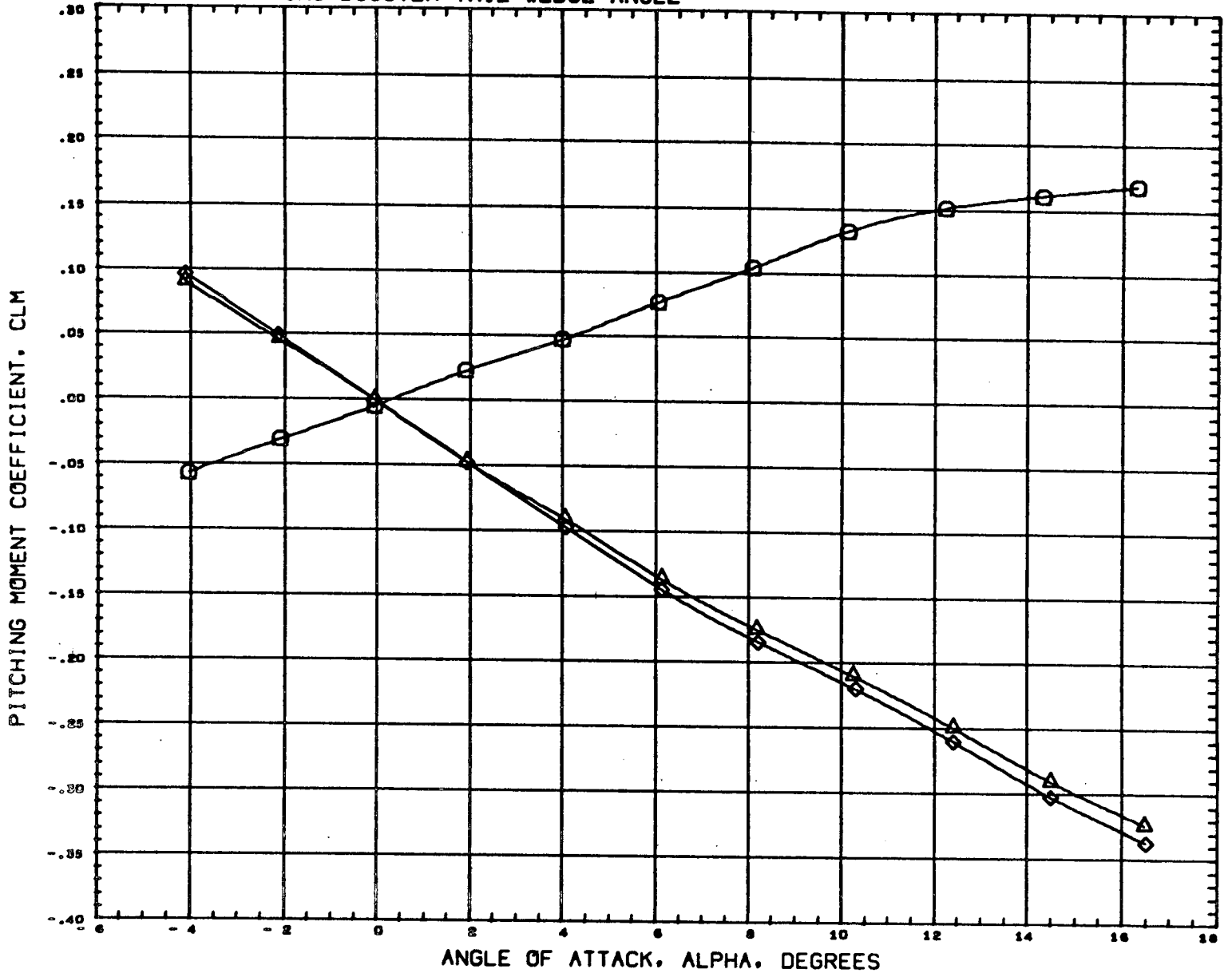
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	○	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.9350 80. IN.
(E50010)	△	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	◇	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
							XMRP 3.7820 INCHES
							YMRP 0.0000 INCHES
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							SCALE 0.0034

MACH 1.458

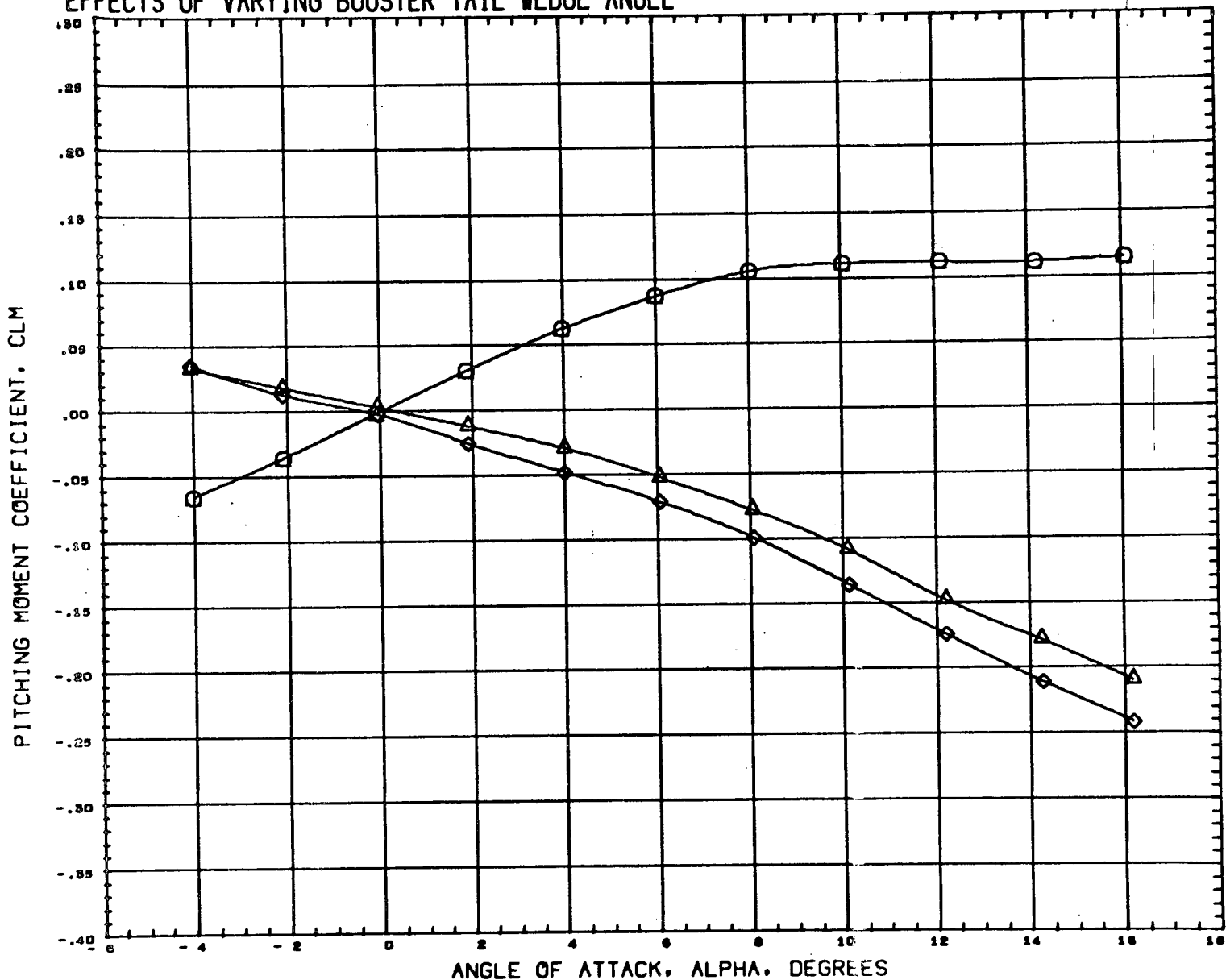
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	BREF	0.9350 30. IN.
(E90010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(090040)	M8FC 512 GD/C .003366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.966

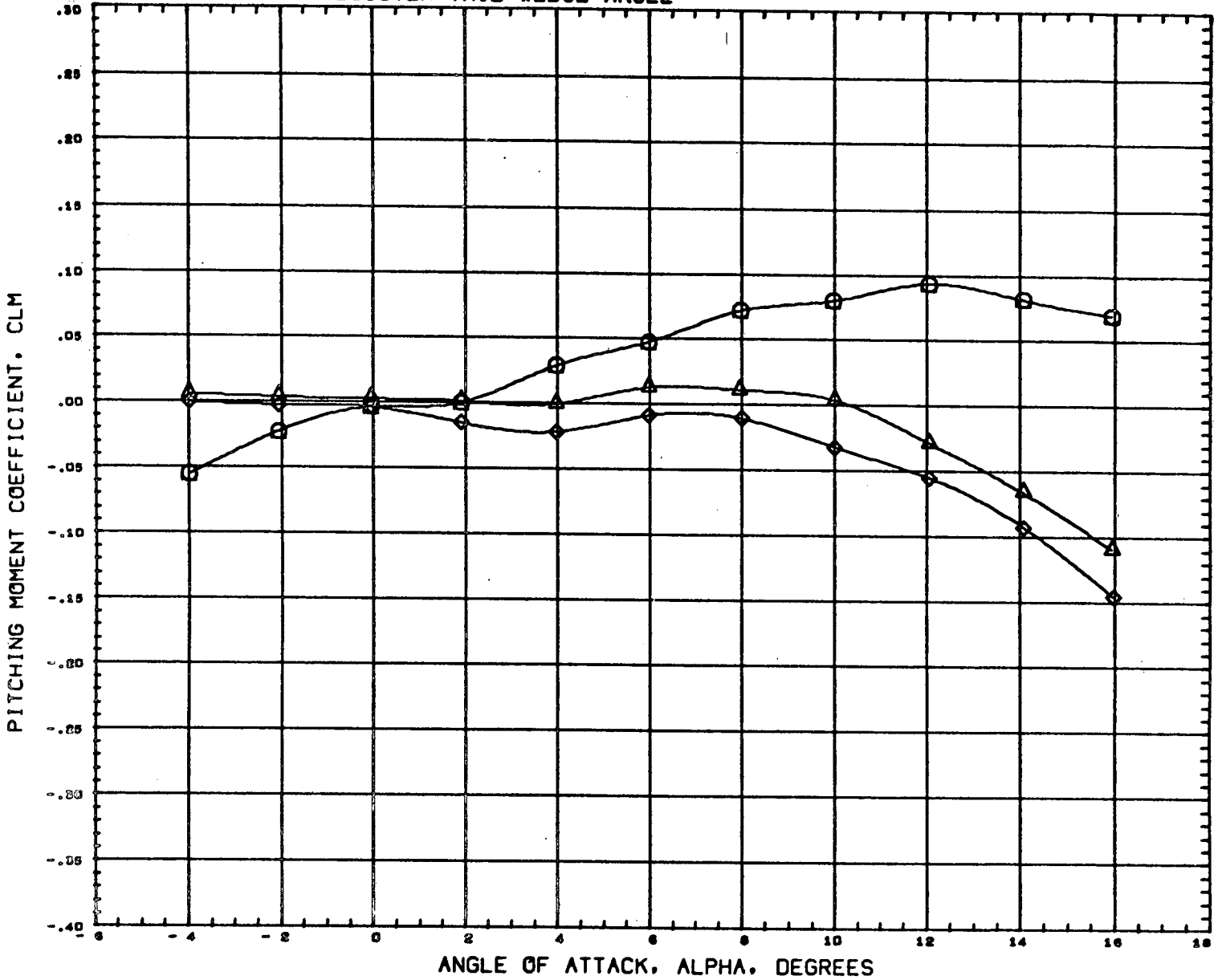
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	○	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E90010)	△	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90040)	◇	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
							XHRP 3.7920 INCHES
							YHRP 0.0000 INCHES
							ZHRP 0.0000 INCHES
							SCALE 0.0034

MACH 2.740

EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE

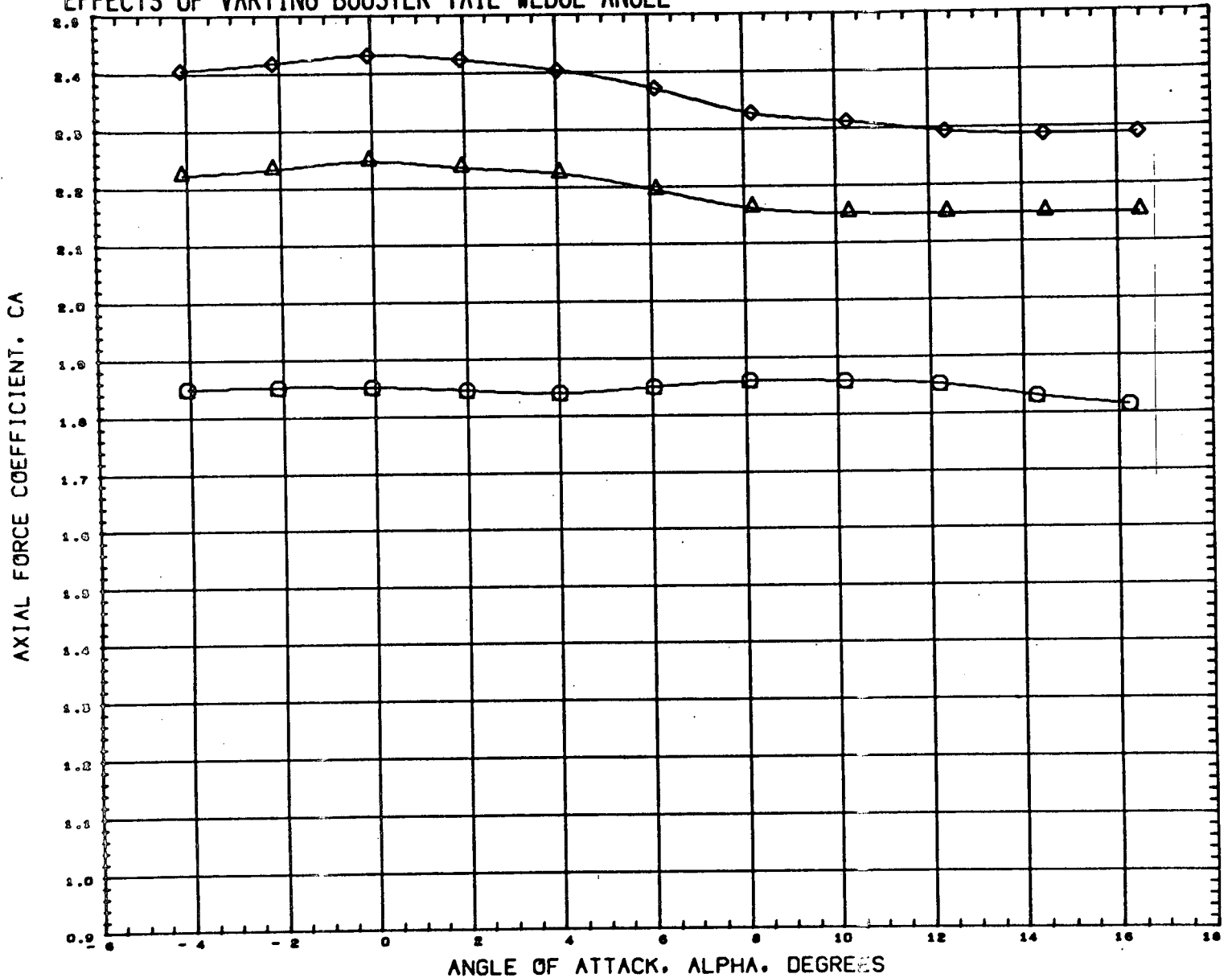


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5D110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	B34R6
(E5D010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	B34R6T10
(D5D040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	B34R6T11

REFERENCE INFORMATION	VALUE	UNIT
SREF	0.9350	SQ. IN.
LREF	6.2310	INCHES
BREF	1.0910	INCHES
XMRP	3.7820	INCHES
YMRP	0.0000	INCHES
ZMRP	0.0000	INCHES
SCALE	0.0034	

MACH 4.959

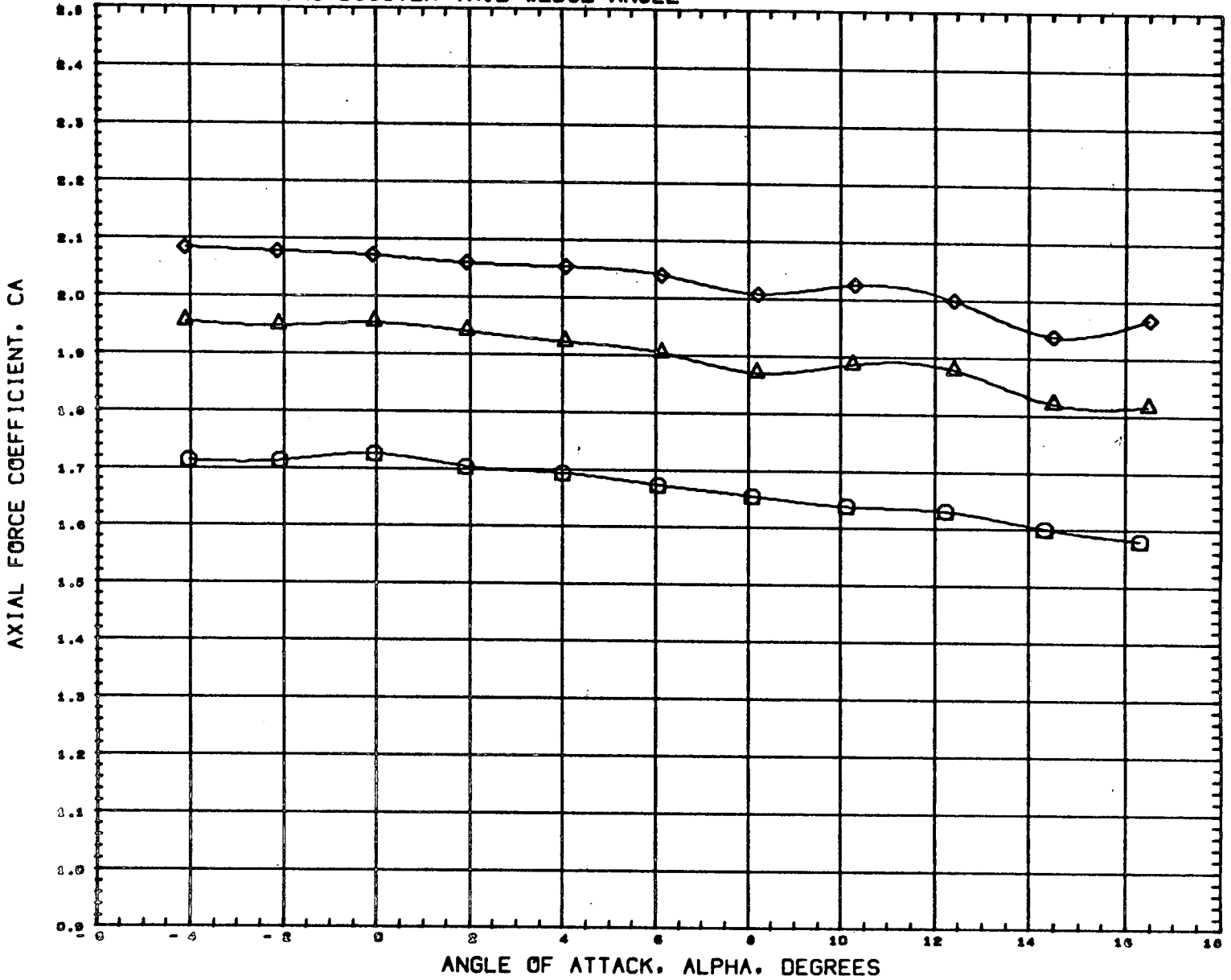
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50110)	△	M5FC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF	0.9350 SQ. IN.
(E50010)	△	M5FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(050040)	◇	M5FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
							XMRP	3.7920 INCHES
							YMRP	0.0000 INCHES
							ZMRP	0.0000 INCHES
							SCALE	0.0034

MACH 1.458

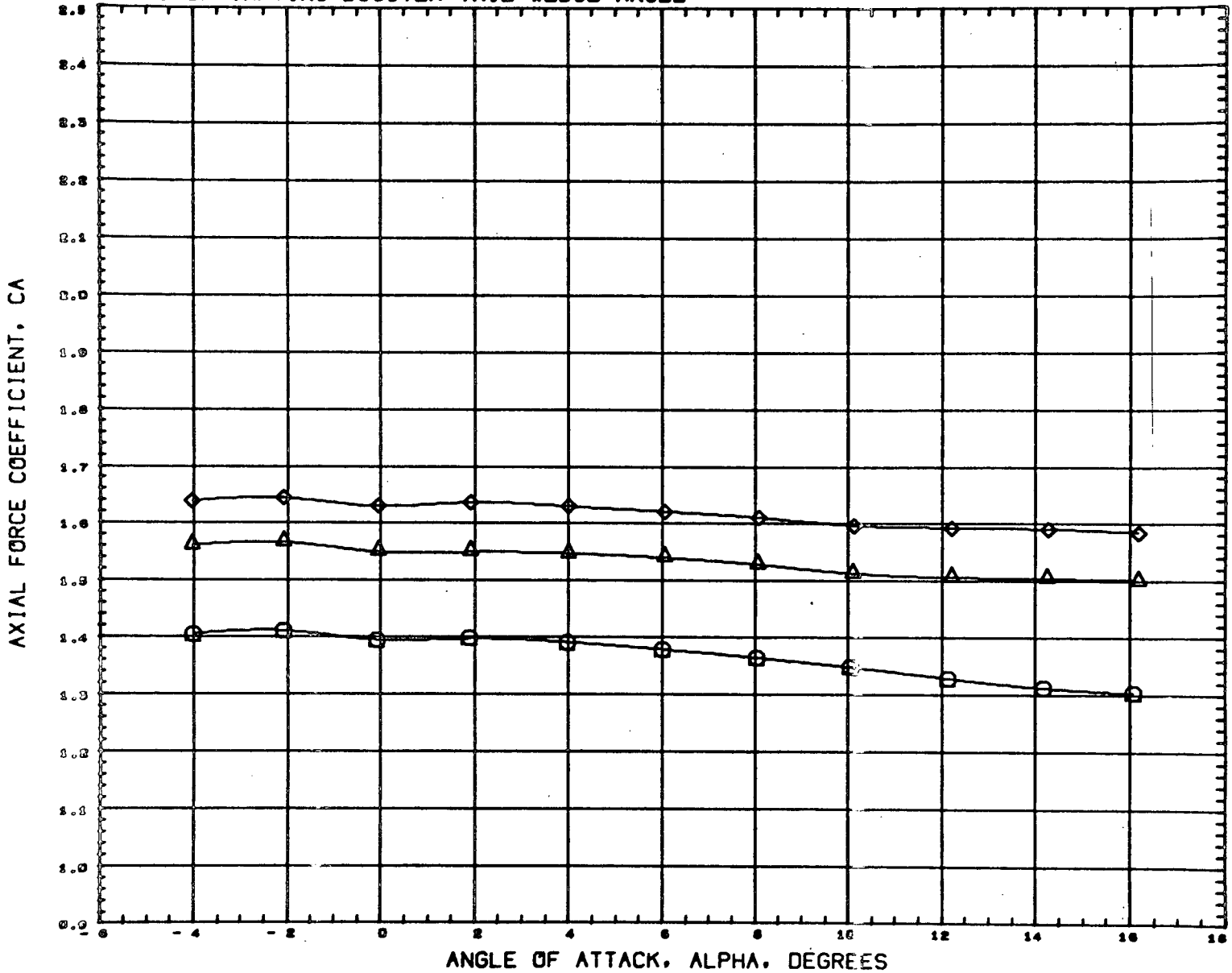
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E50010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 0.2310 INCHES
(D50040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

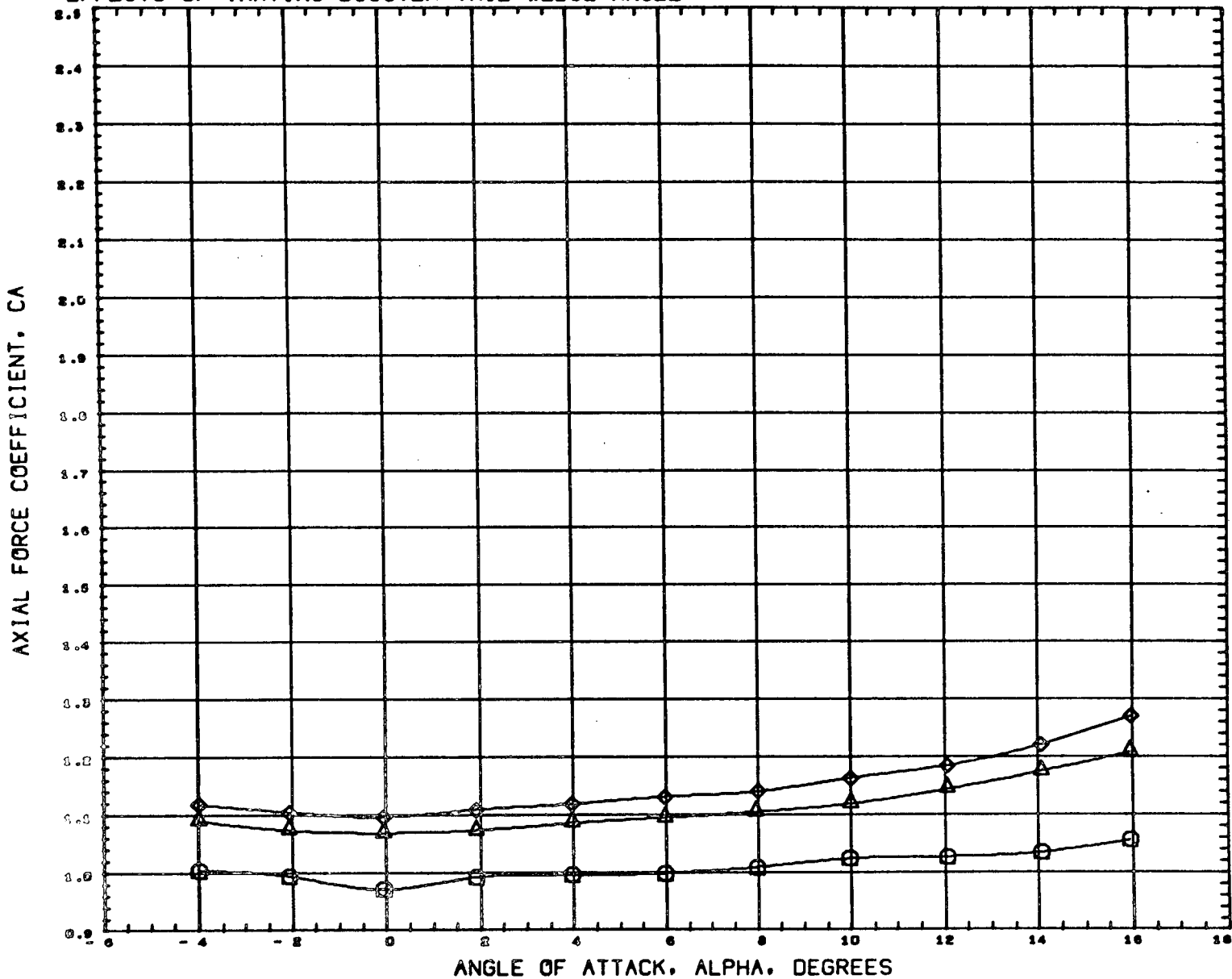
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	○	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 50 IN.
(E90010)	△	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90040)	◇	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
							XHRP 3.7920 INCHES
							YHRP 0.0000 INCHES
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							SCALE 0.0034

MACH 2.740

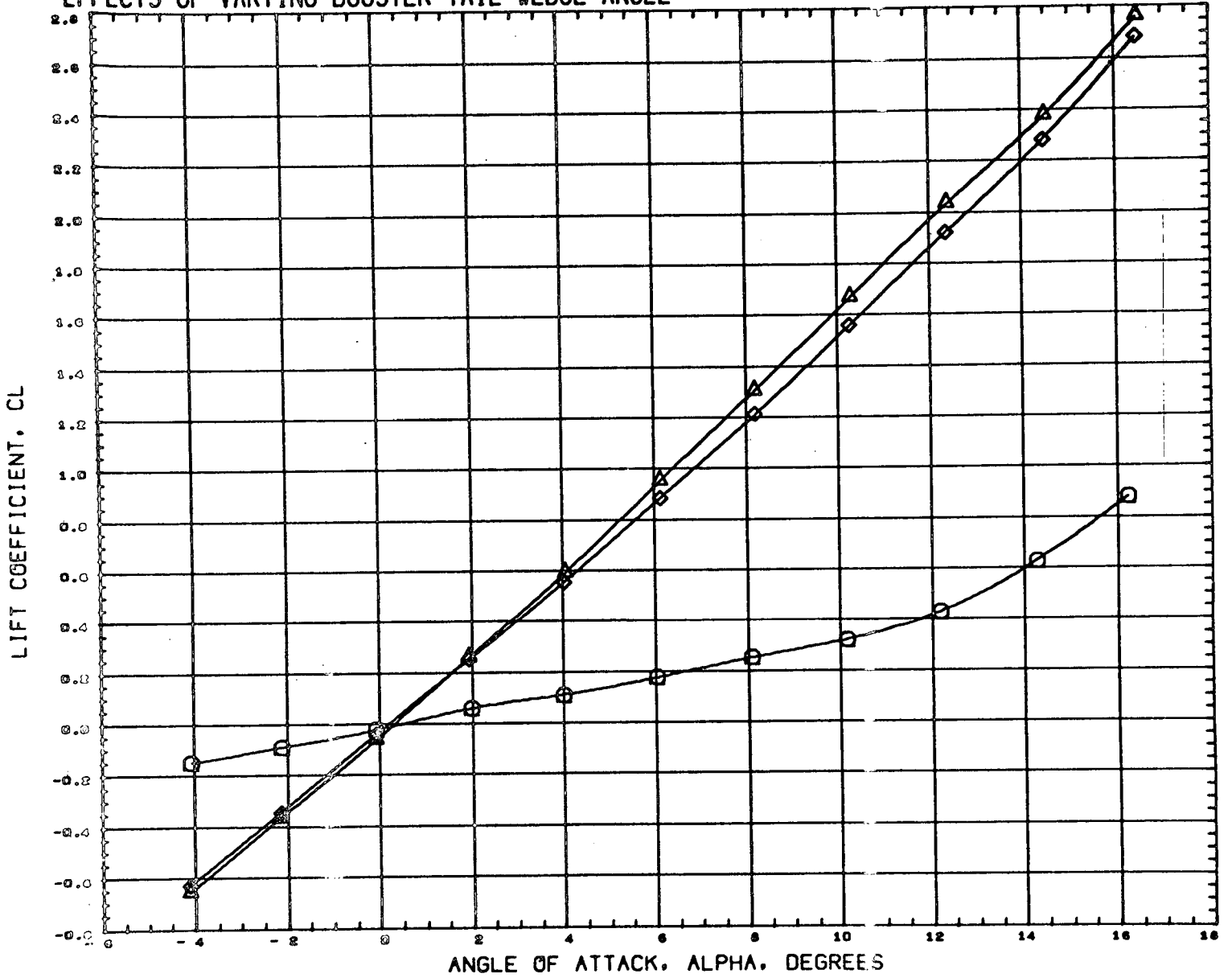
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(250110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(250010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(250040)	MSFC 512 GD/C .003366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 4.059

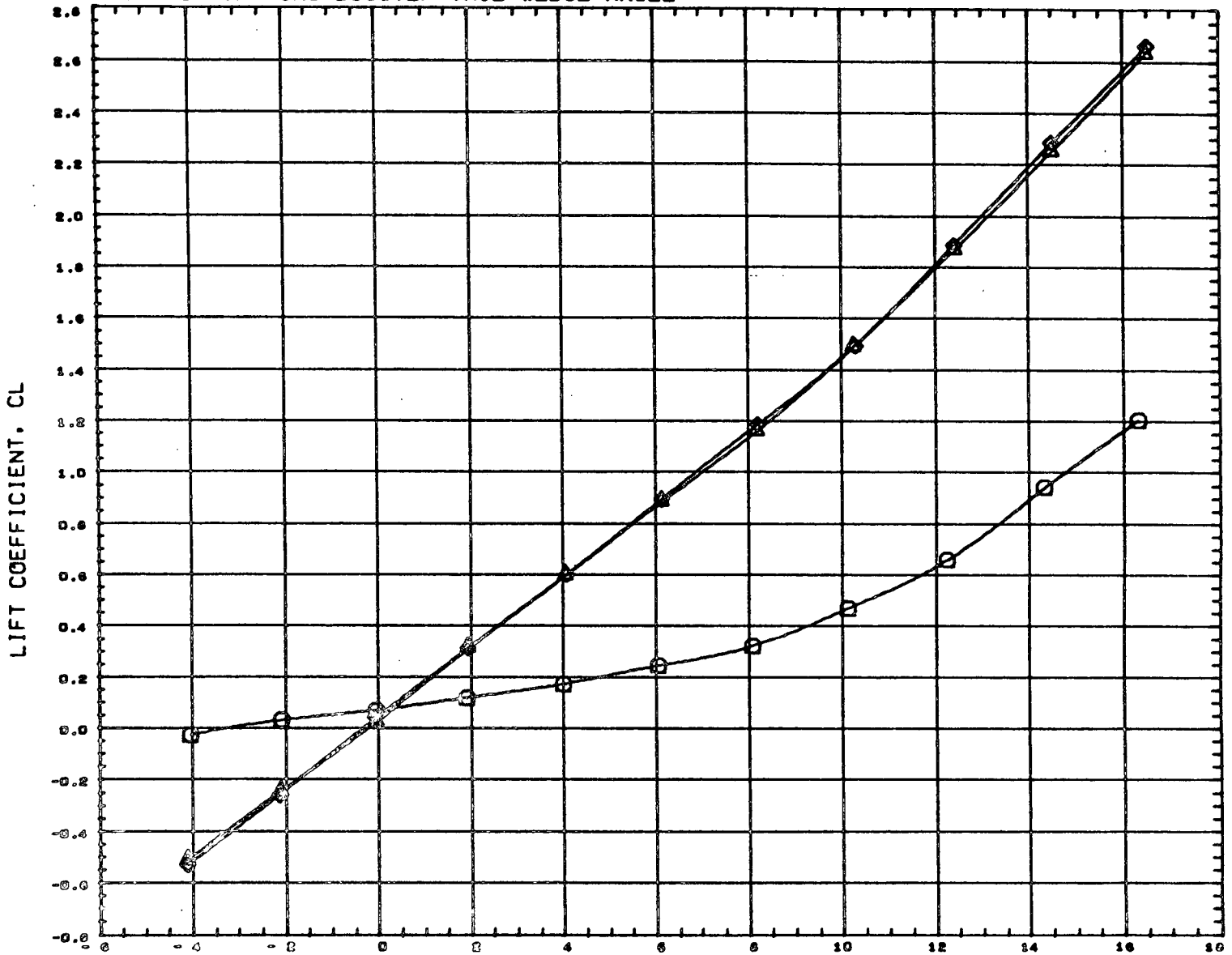
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	□	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E50030)	△	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	○	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
							XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 1.458

EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE

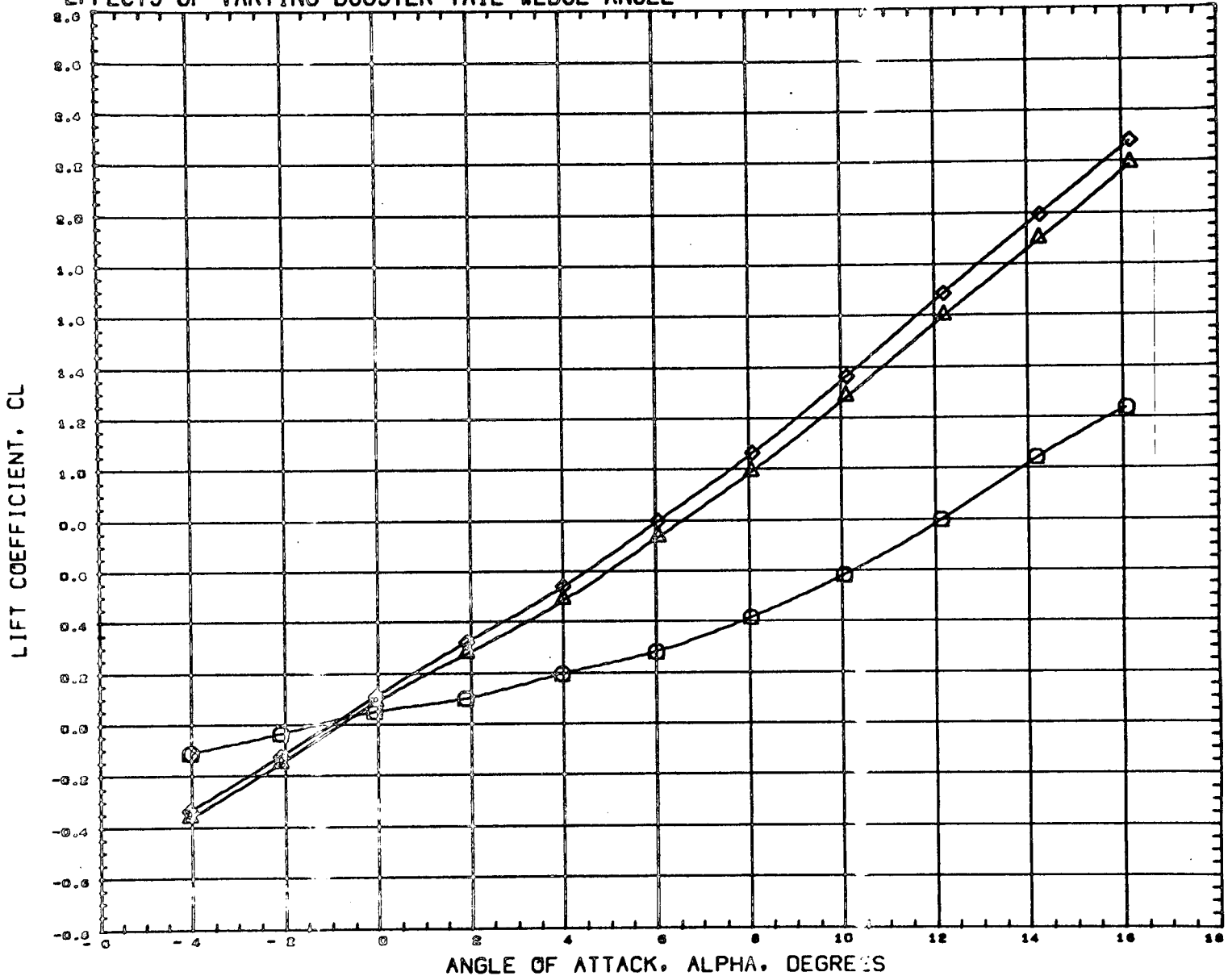


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9010)	MSFC 512 GD/C .00366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 30. IN.
(E9002)	MSFC 512 GD/C .00366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5004)	MSFC 512 GD/C .00366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.960

EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



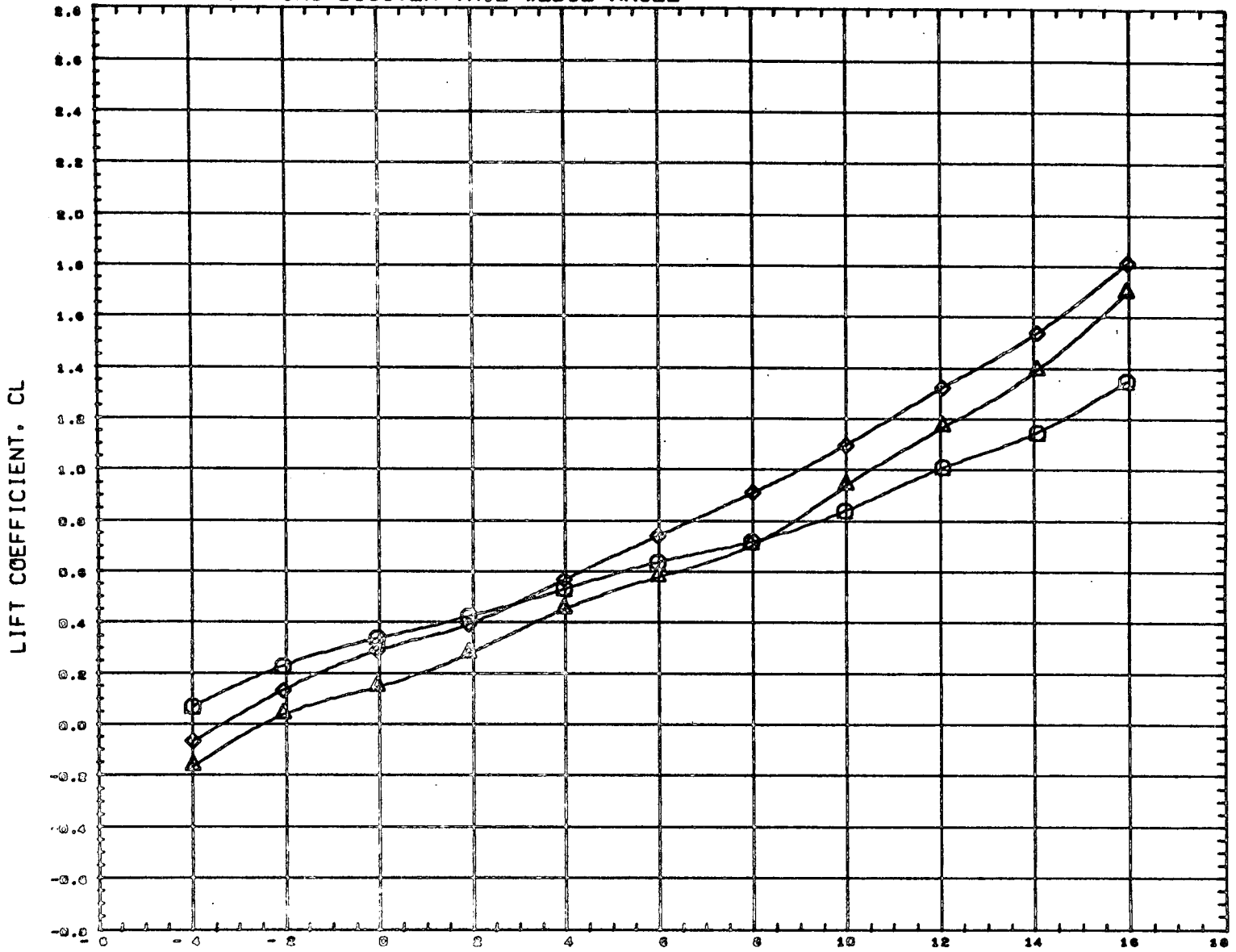
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E90110)	○	MSFC 512 GD/C .003366 BOOSTER
(E50010)	△	MSFC 512 GD/C .003366 BOOSTER
(050040)	◇	MSFC 512 GD/C .003366 BOOSTER

BETA	PHIMOD	LFLAP	RFLAP
0.000	45.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

REFERENCE INFORMATION	
SREF	0.9350 SQ. IN.
LREF	6.2310 INCHES
BREF	1.0910 INCHES
XMRP	3.7920 INCHES
YMRP	0.0000 INCHES
ZMRP	0.0000 INCHES
SCALE	0.0034

MACH 2.740

EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE

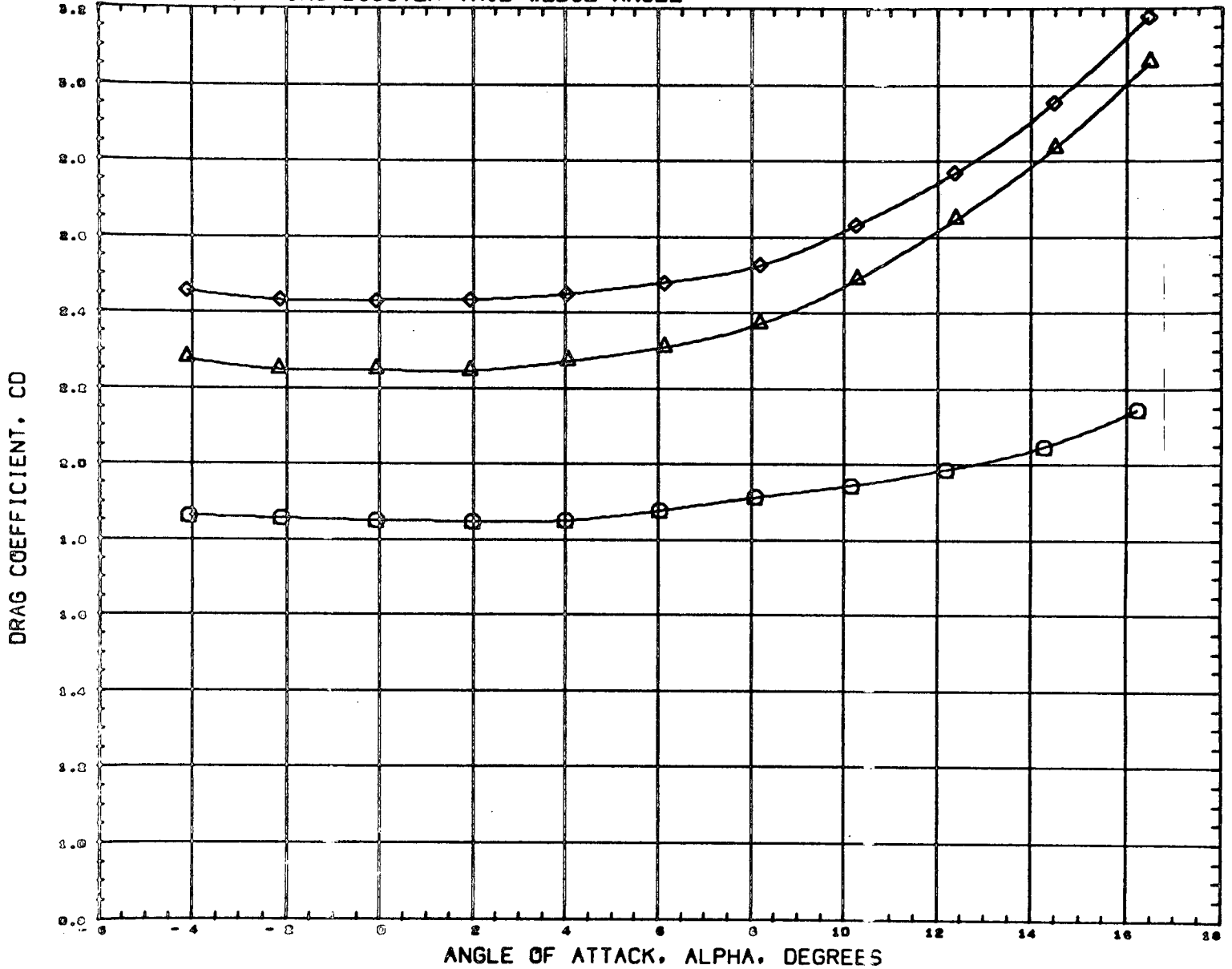


ANGLE OF ATTACK, ALPHA, DEGREES

DATA BY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	M8PC 912 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E90010)	M8PC 912 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	M8PC 912 GD/C .003366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

NACH 4.959

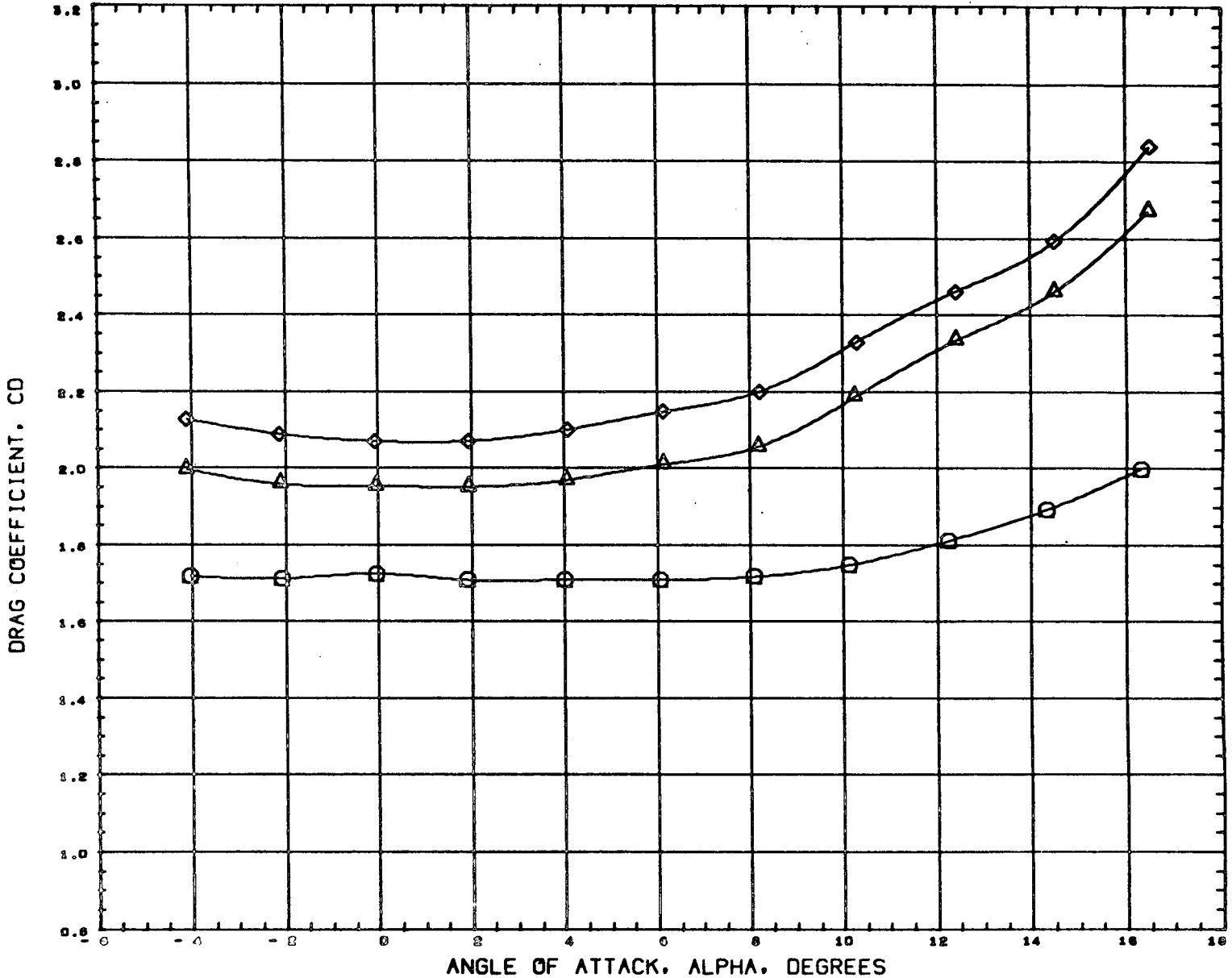
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	M8FC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E50010)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

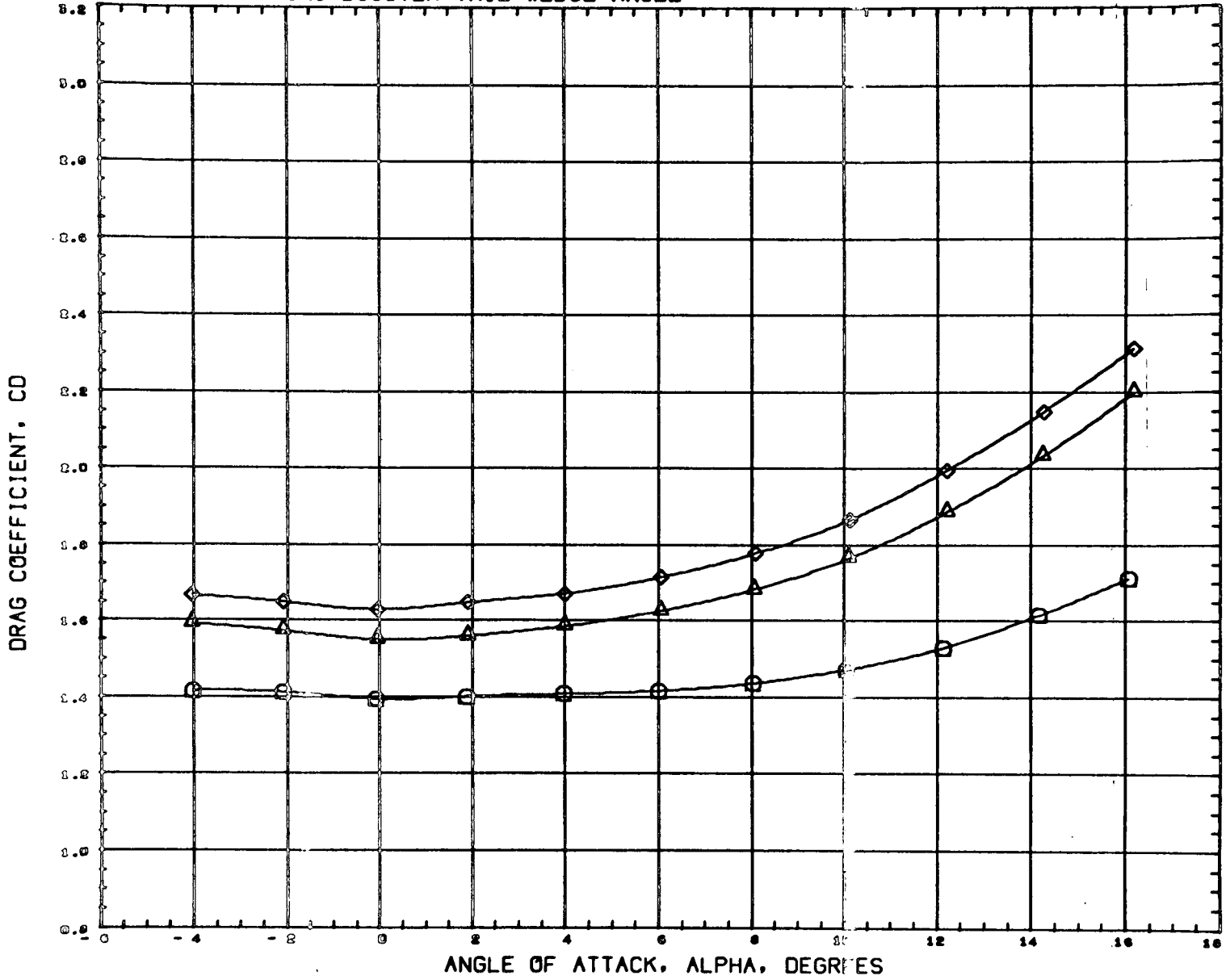
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 90. IN.
(E90010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						ZMRP 0.0000 INCHES
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						SCALE 0.0034

MACH 1.950

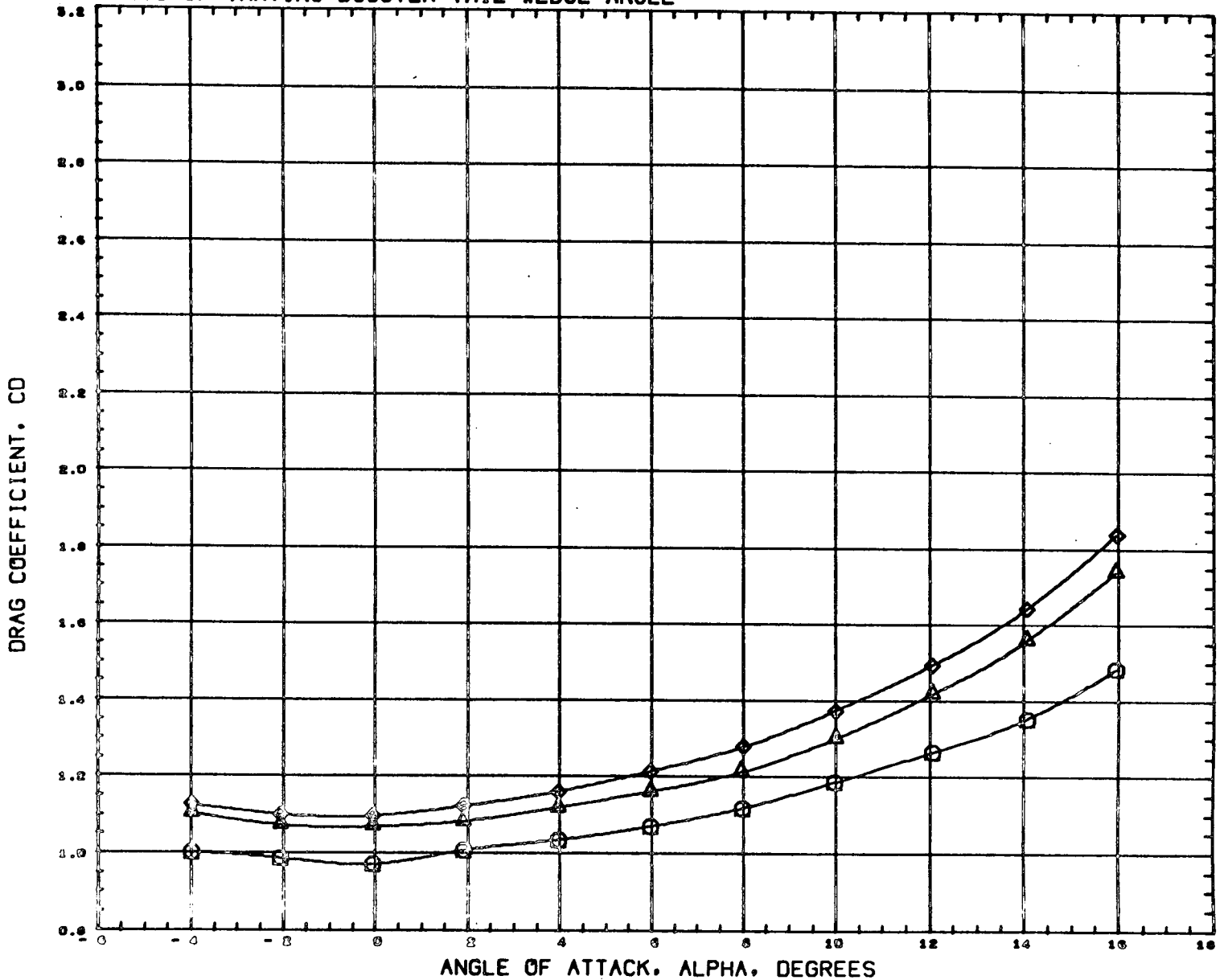
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 80. IN.
(E50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	MSFC 512 GD/C .003366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	SREF 1.0910 INCHES
						XHRP 3.7920 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

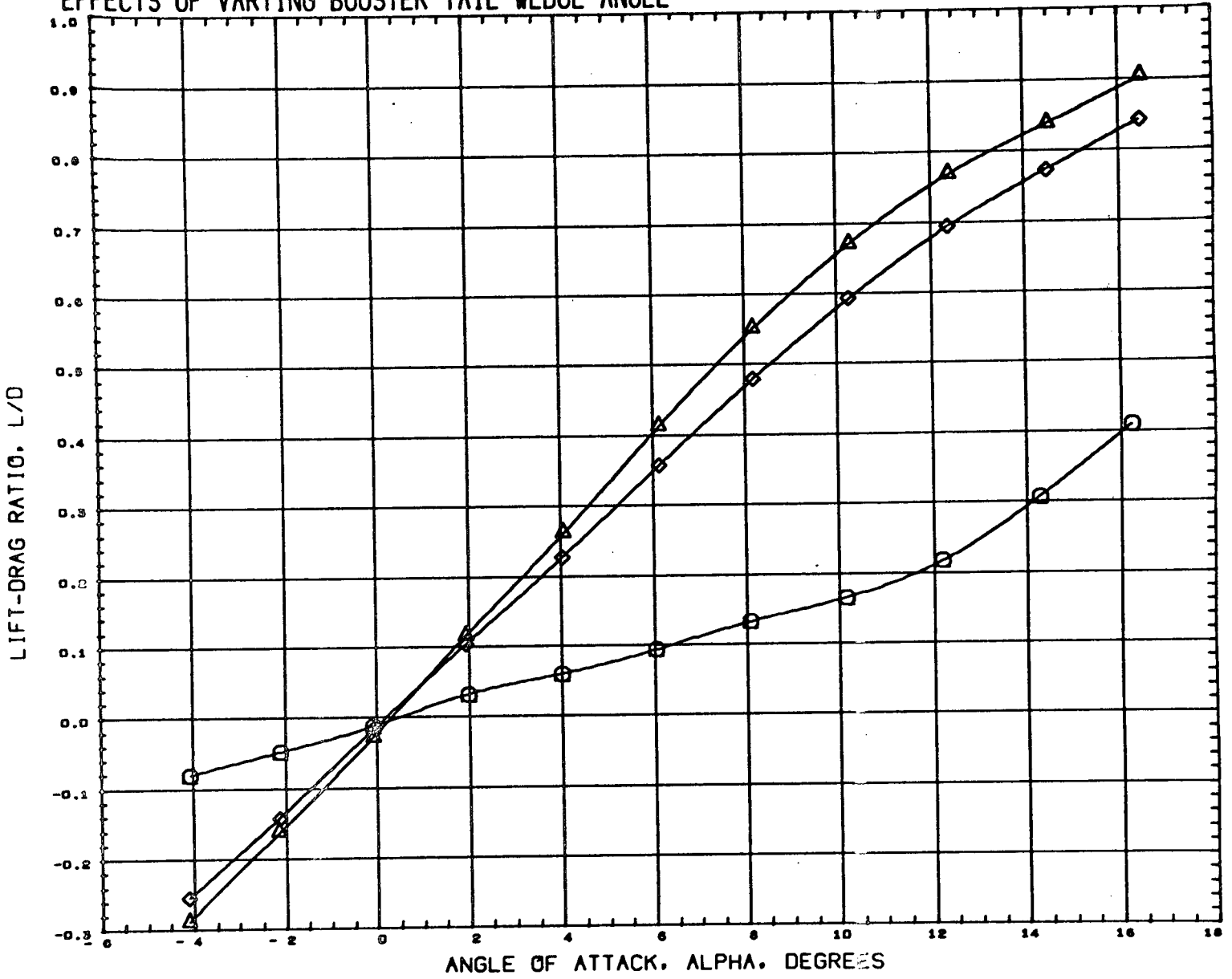
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(B30110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(B90010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	MSFC 512 GD/C .003366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 4.950

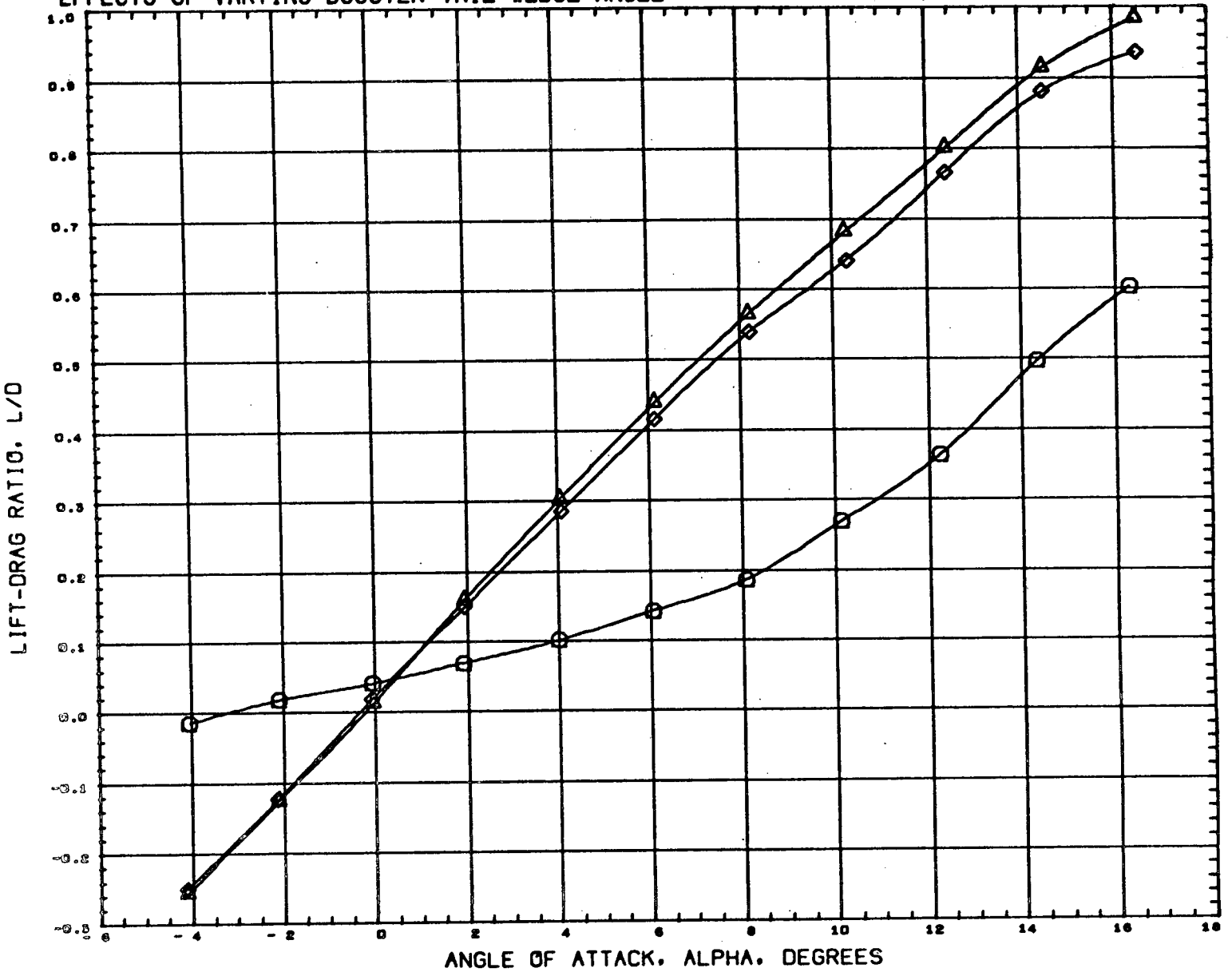
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90110)	△	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF	0.9350 89-IN.
(E90010)	◇	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(050040)	○	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
							XMRP	3.7920 INCHES
							YMRP	0.0000 INCHES
							ZMRP	0.0000 INCHES
							SCALE	0.0034

MACH 1.458

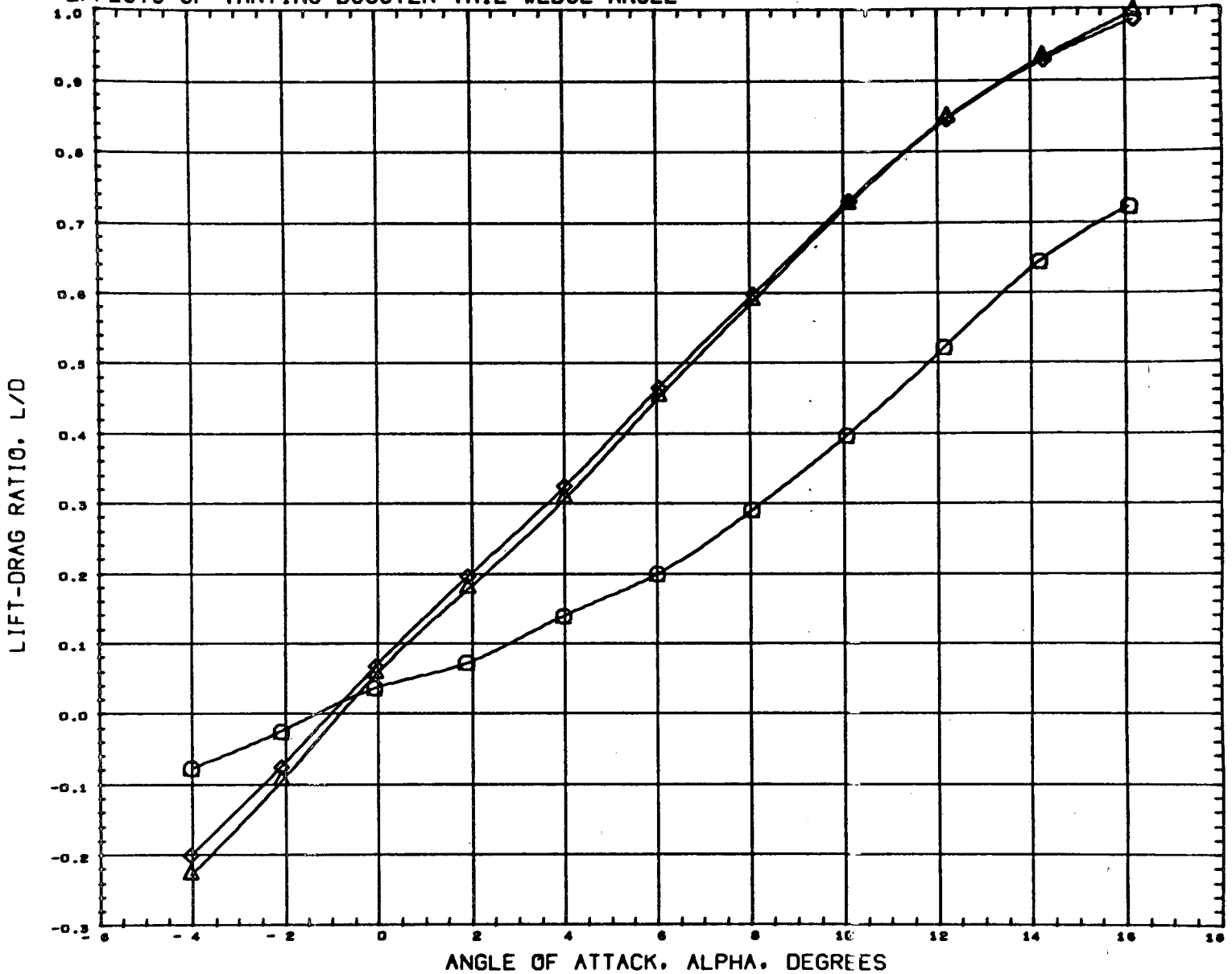
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(250110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF	0.9350 39. IN.
(250010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2510 INCHES
(050040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

DRACH 1.966

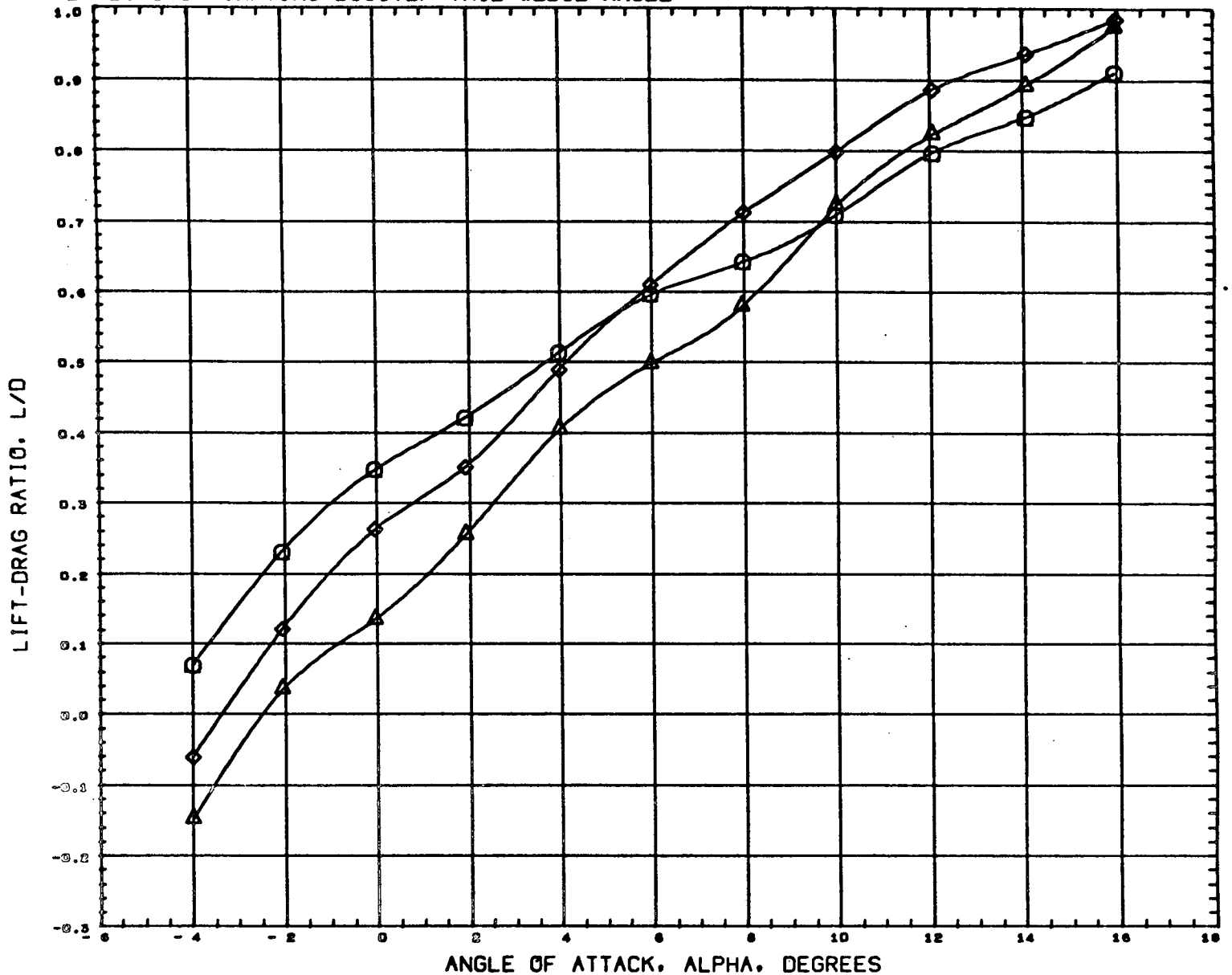
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80.IN.
(E50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	M8FC 512 GD/C .003366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XHRP 3.7920 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

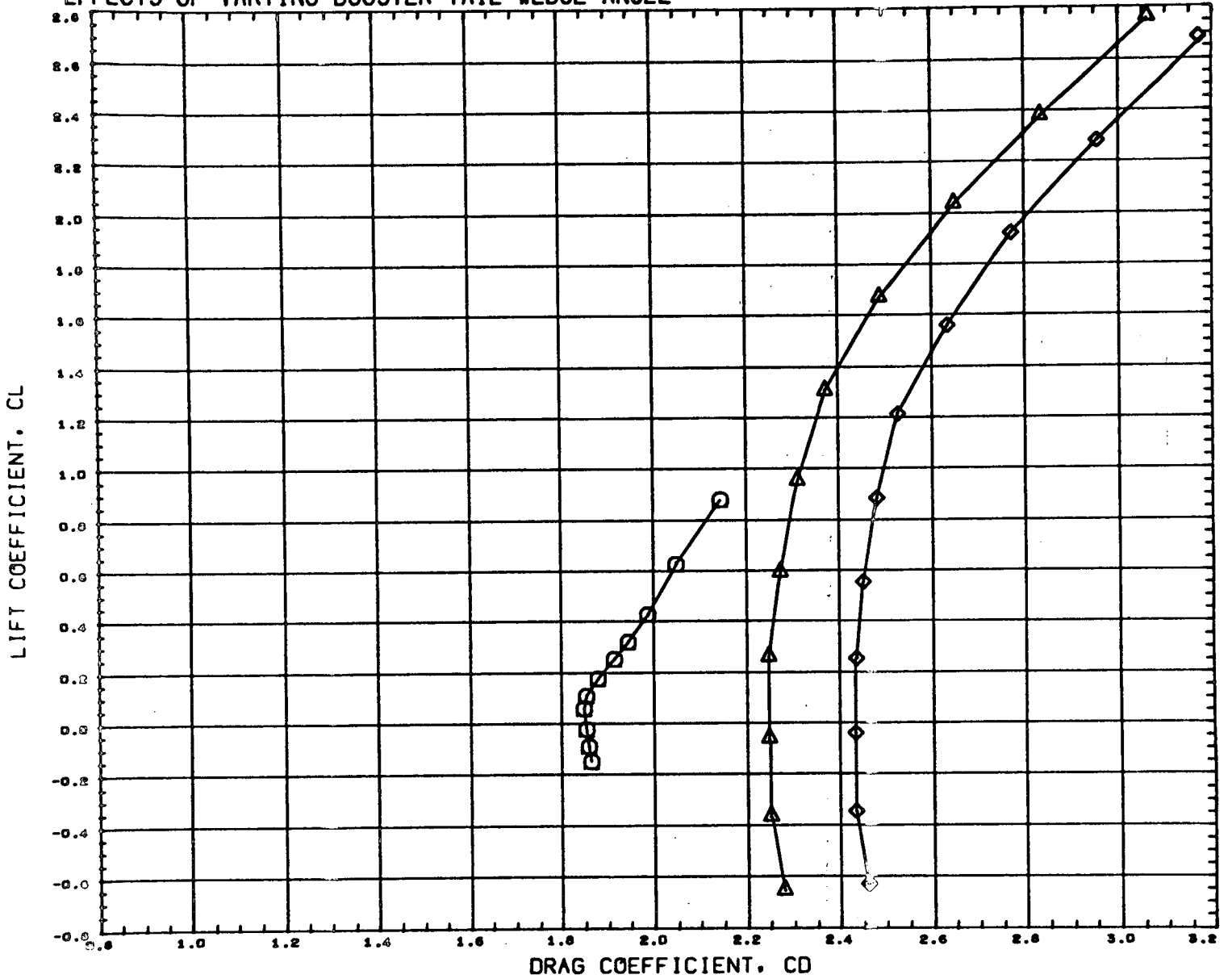
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
0250110	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 90 IN.
0250010	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
0250040	MSFC 512 GD/C .003366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 4.959

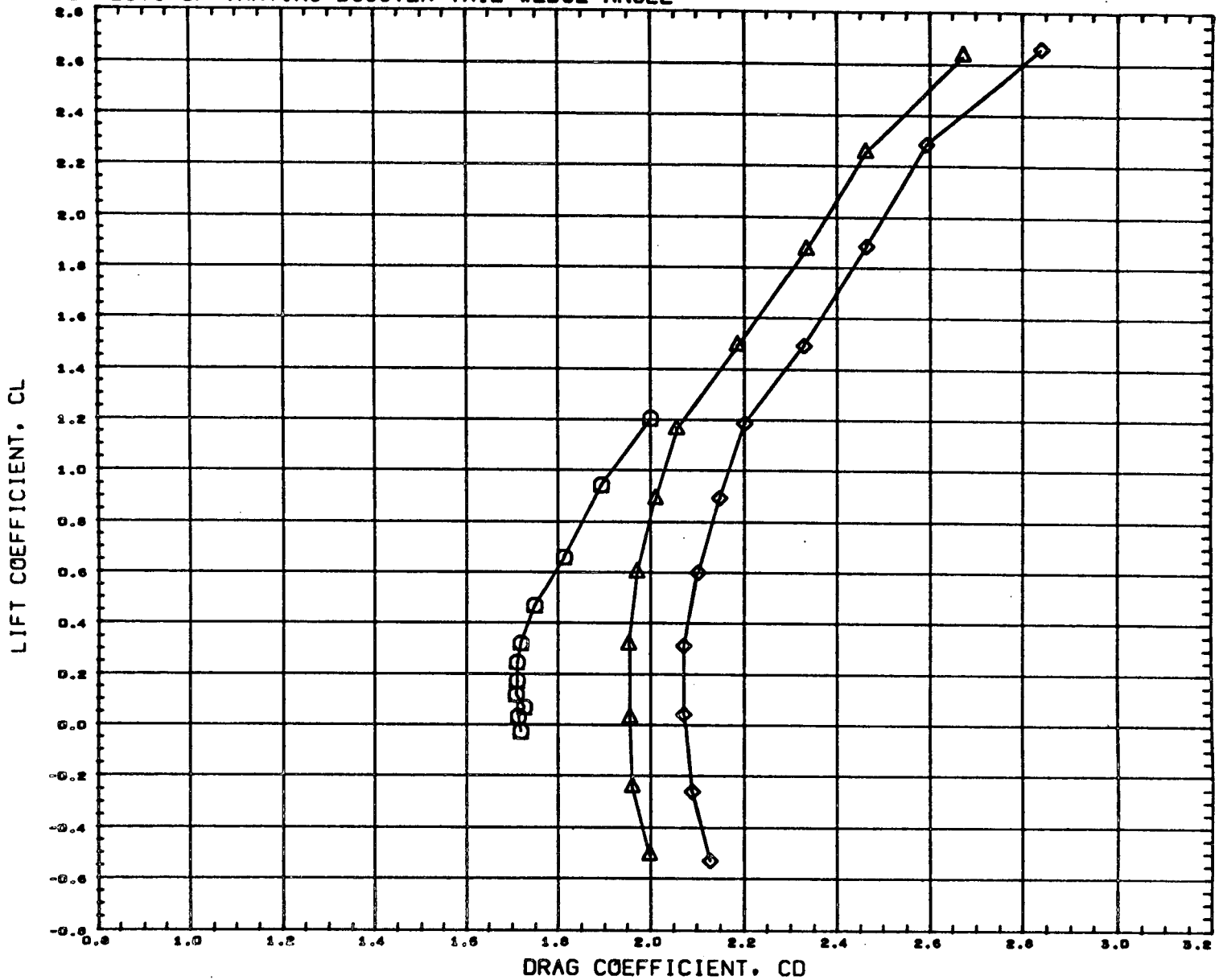
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIM00	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF	0.9350 80. IN.
(E50010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.450

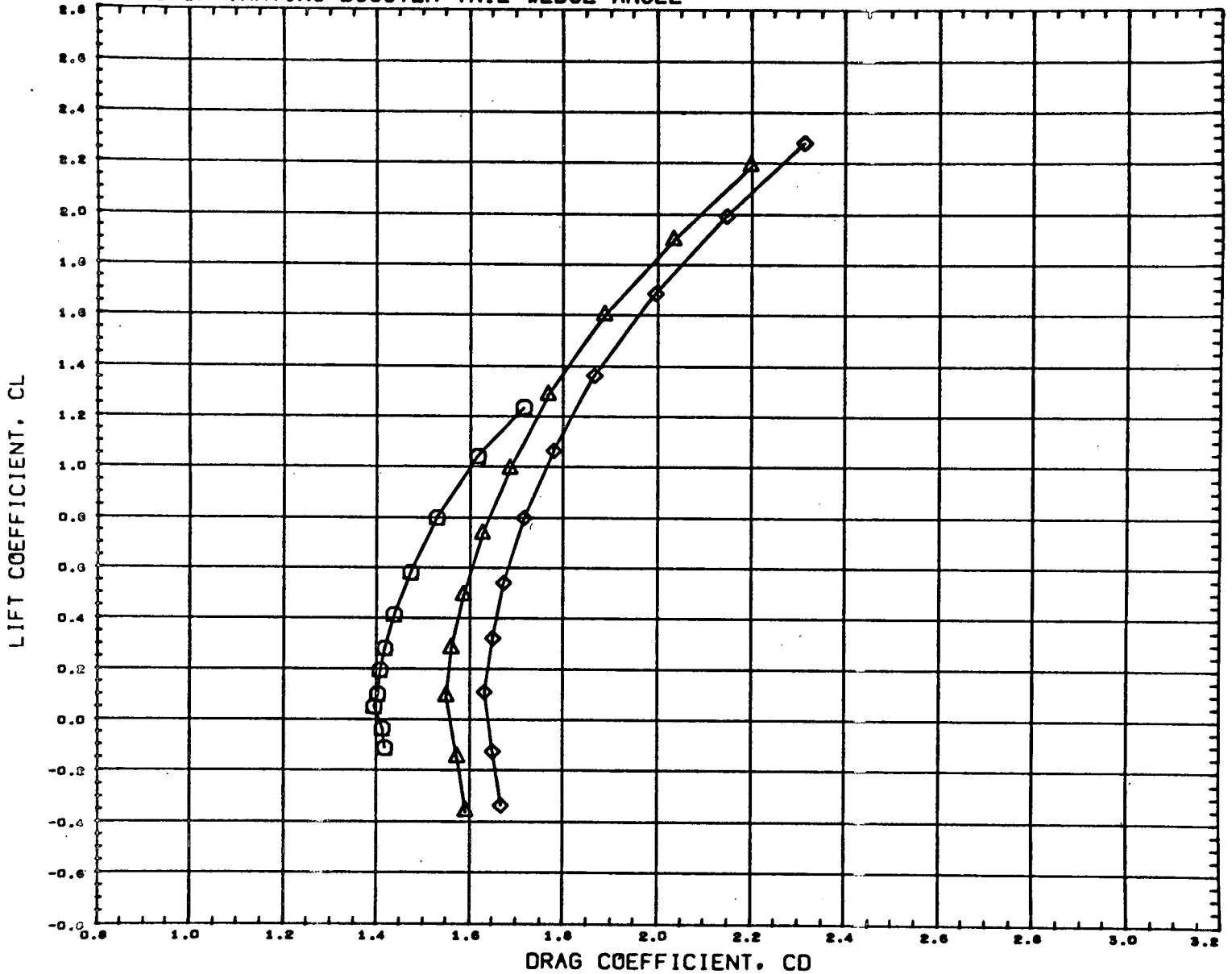
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 SQ. IN.
(E50010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

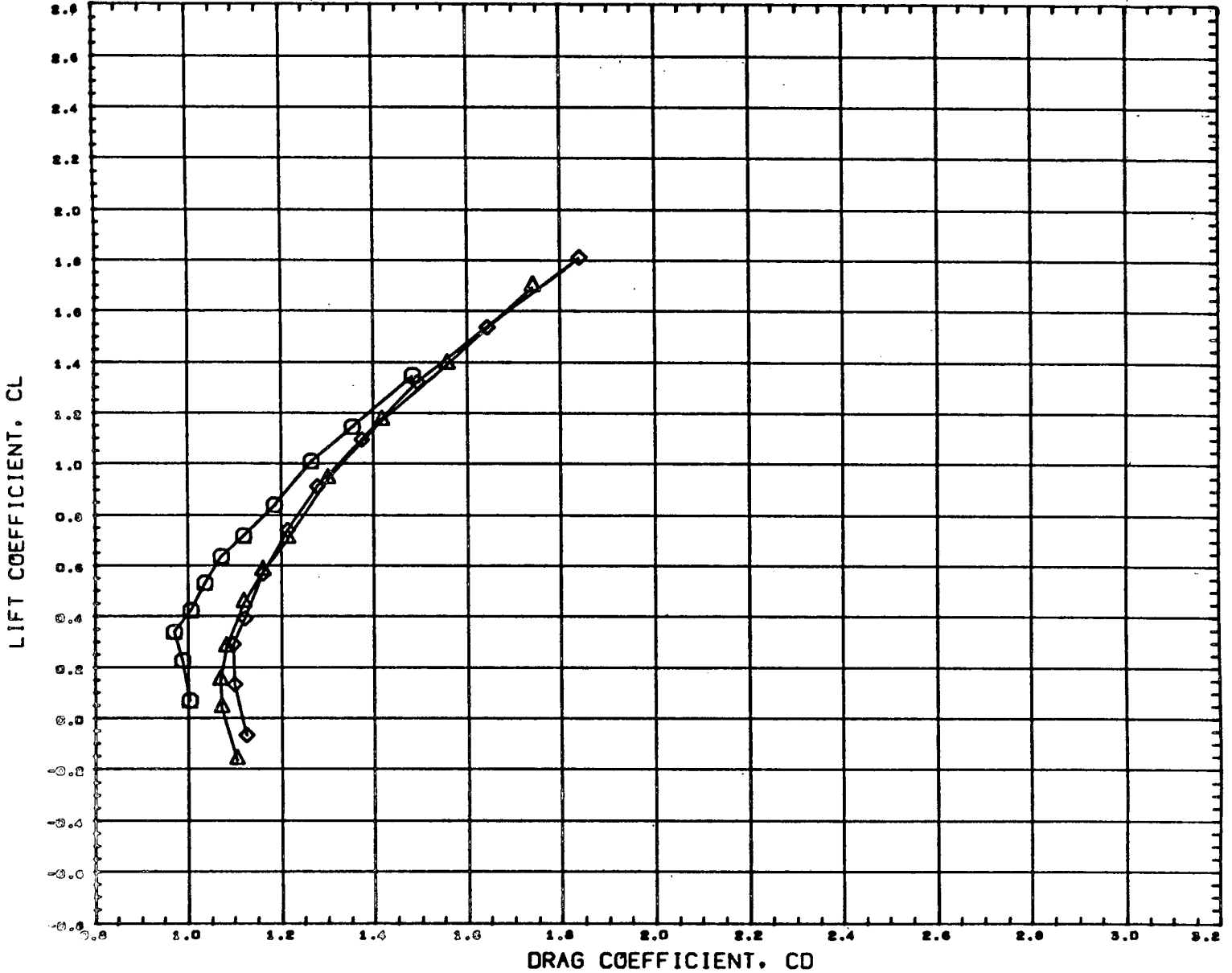
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	○	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 SQ. IN.
(E50010)	△	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	◇	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 2.740

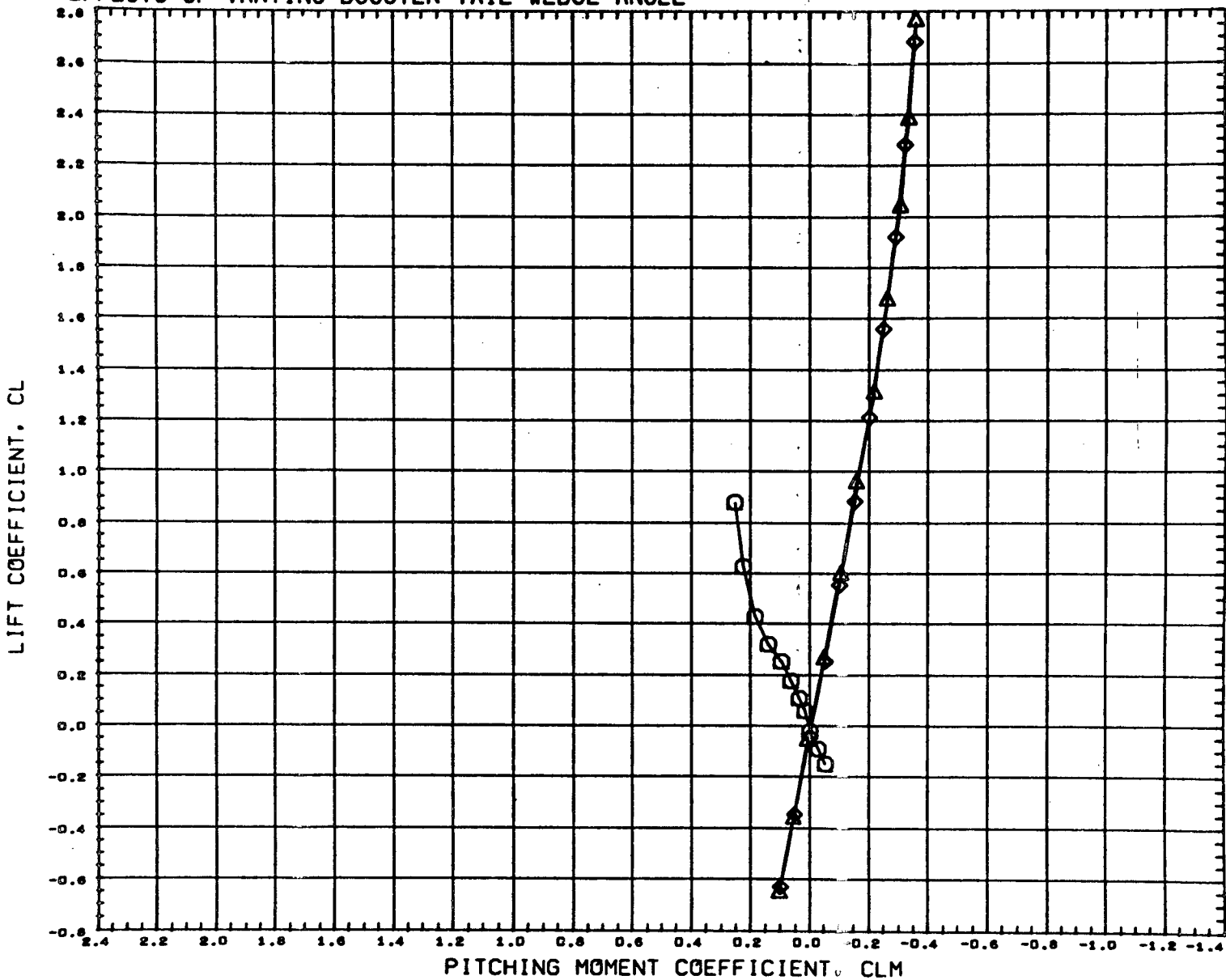
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
030010	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.9350 50. IN.
030010	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
030040	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

DRACH 4.959

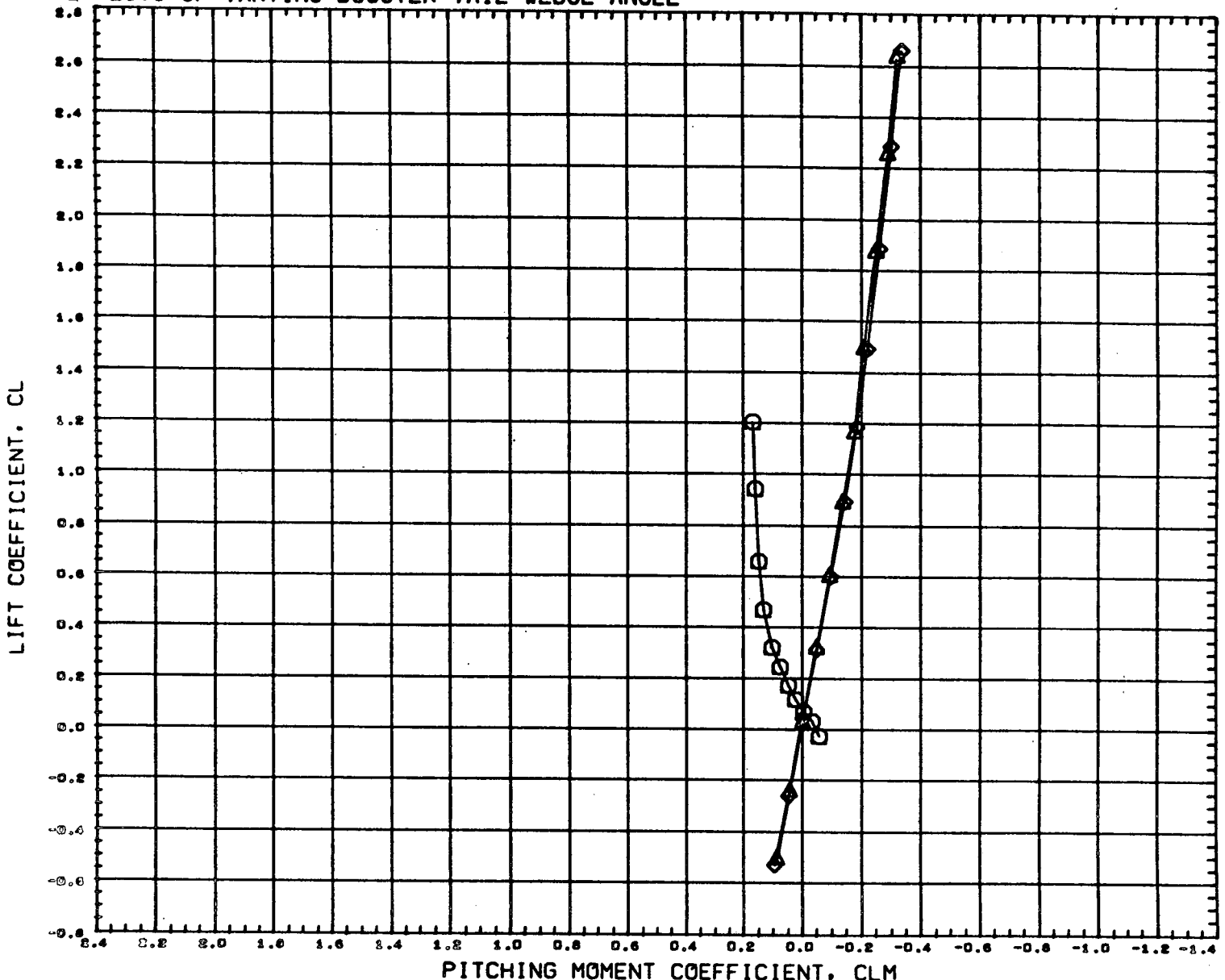
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9390 SQ. IN.
(E90010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XHRP 3.7920 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE

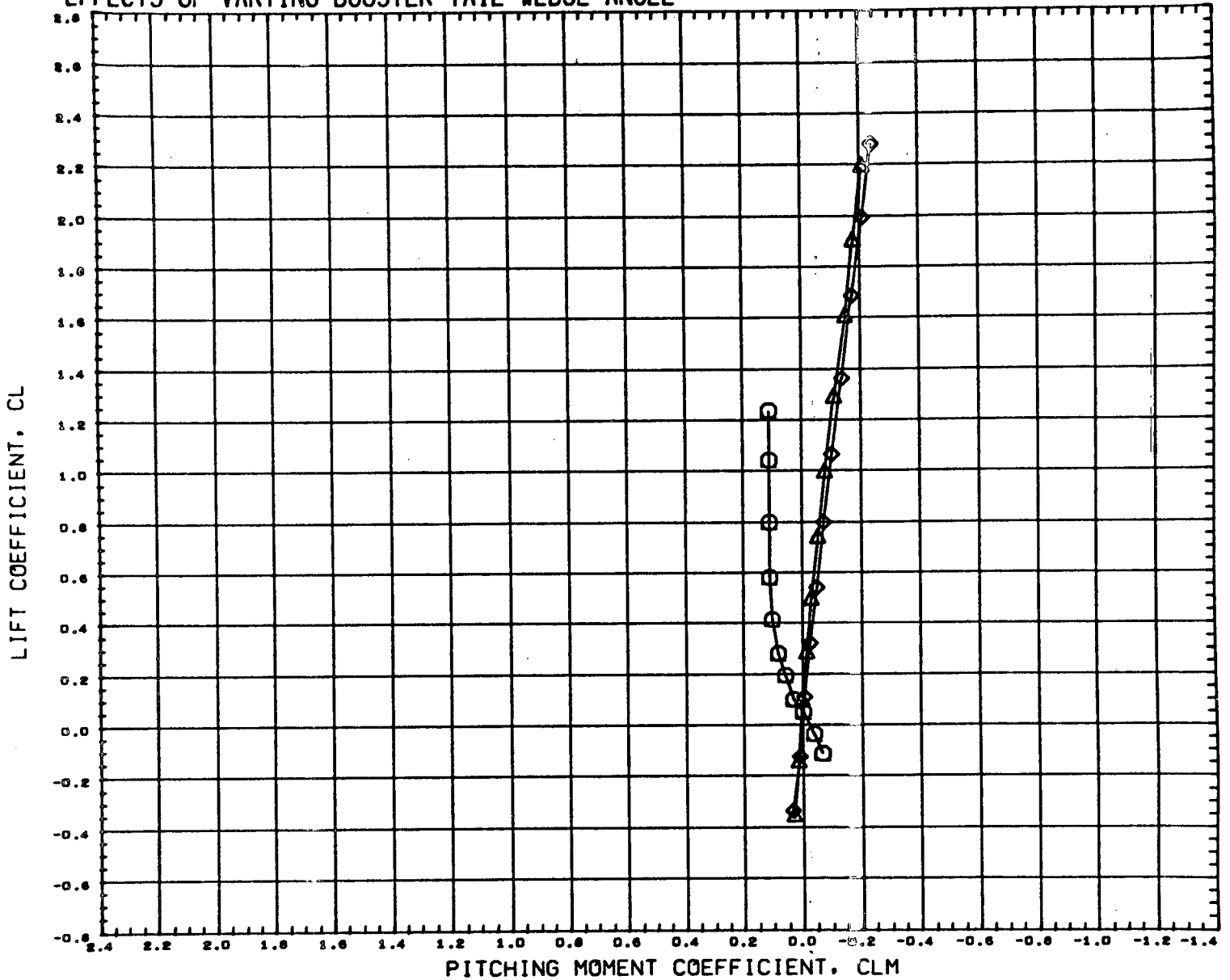


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF	0.9350 SQ. IN.
(E50010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.966

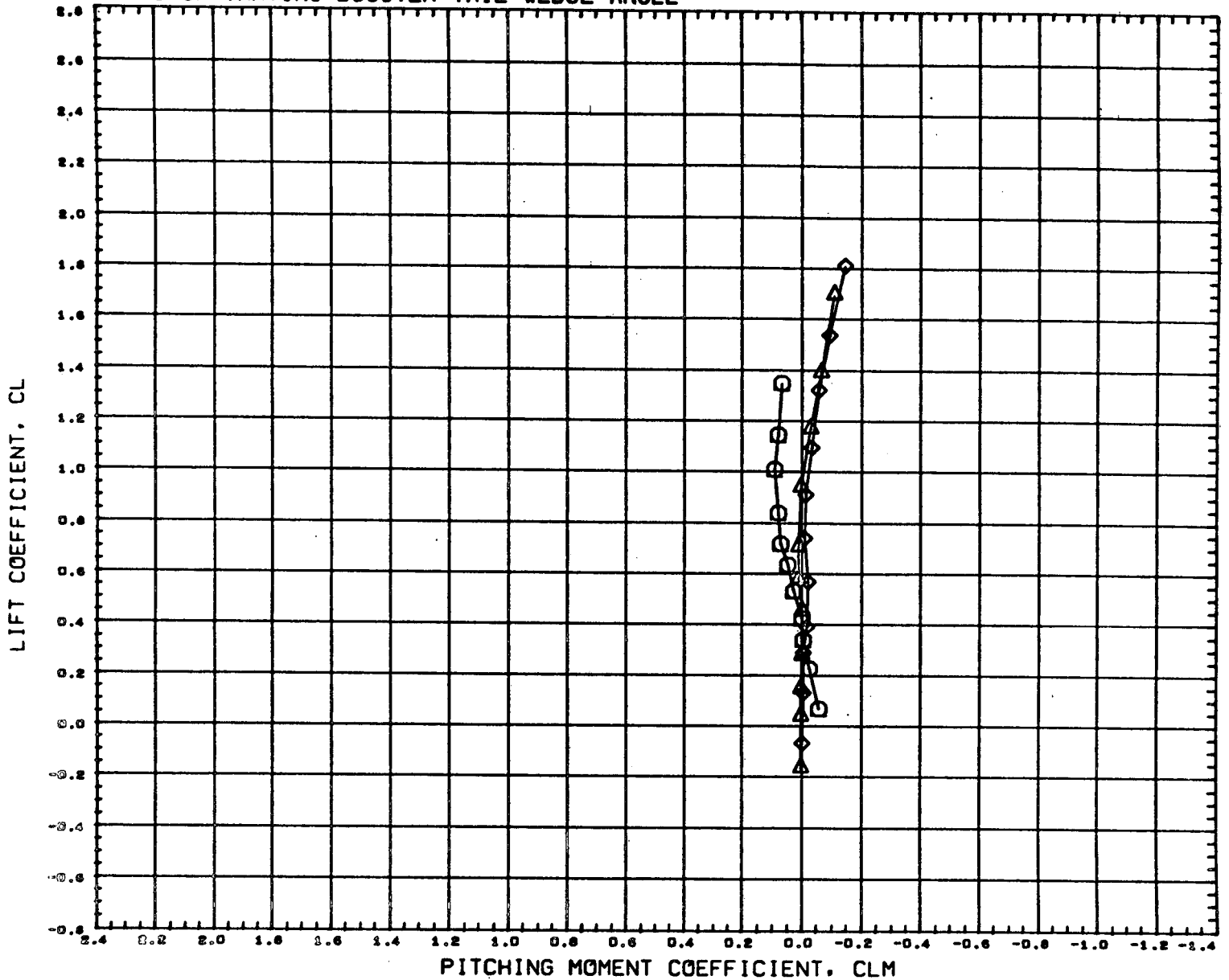
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E50010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

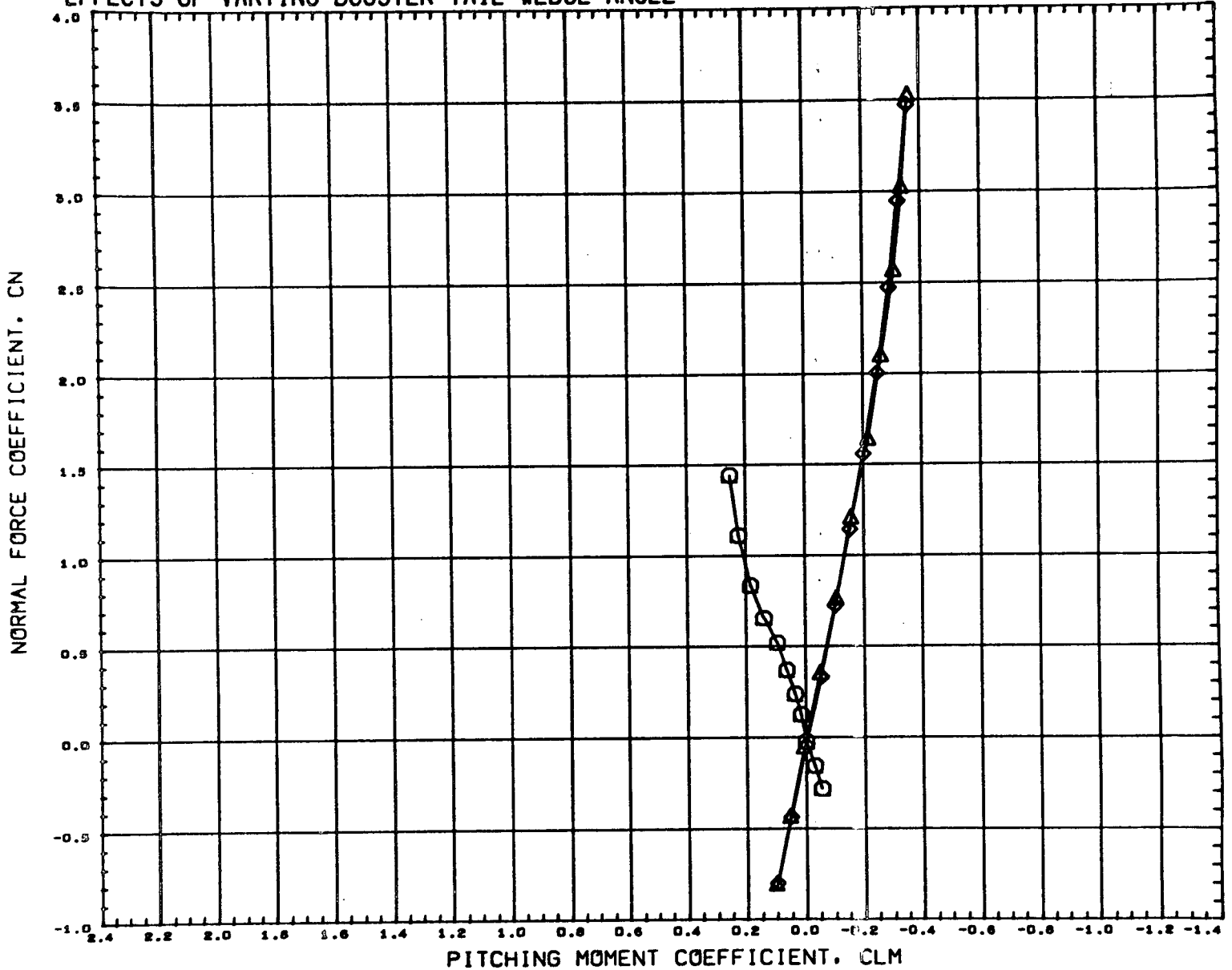
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(290110)	M8FC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(290020)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(290040)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7820 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

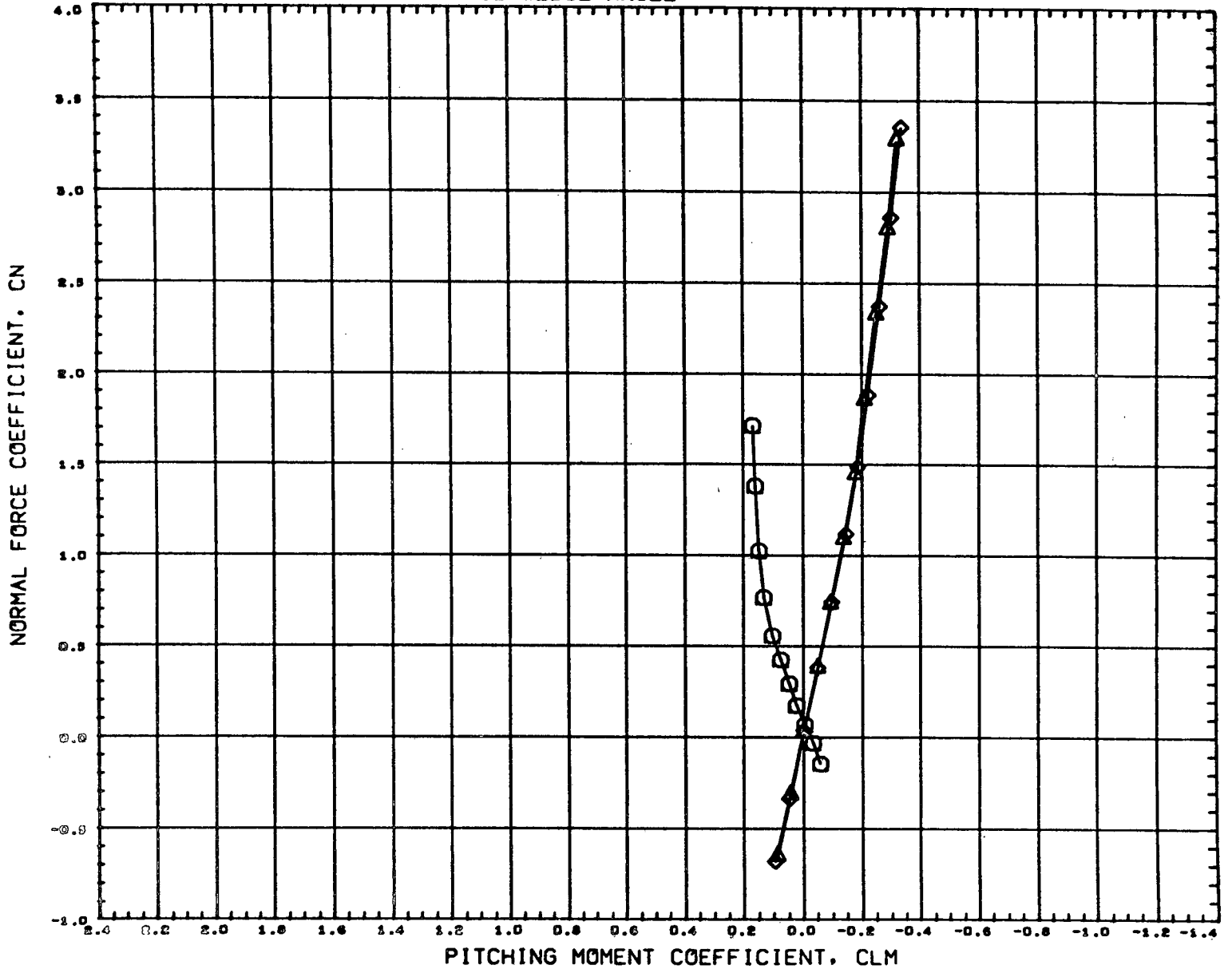
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 sq. in.
(E50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(050040)	MSFC 512 GD/C .003366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE

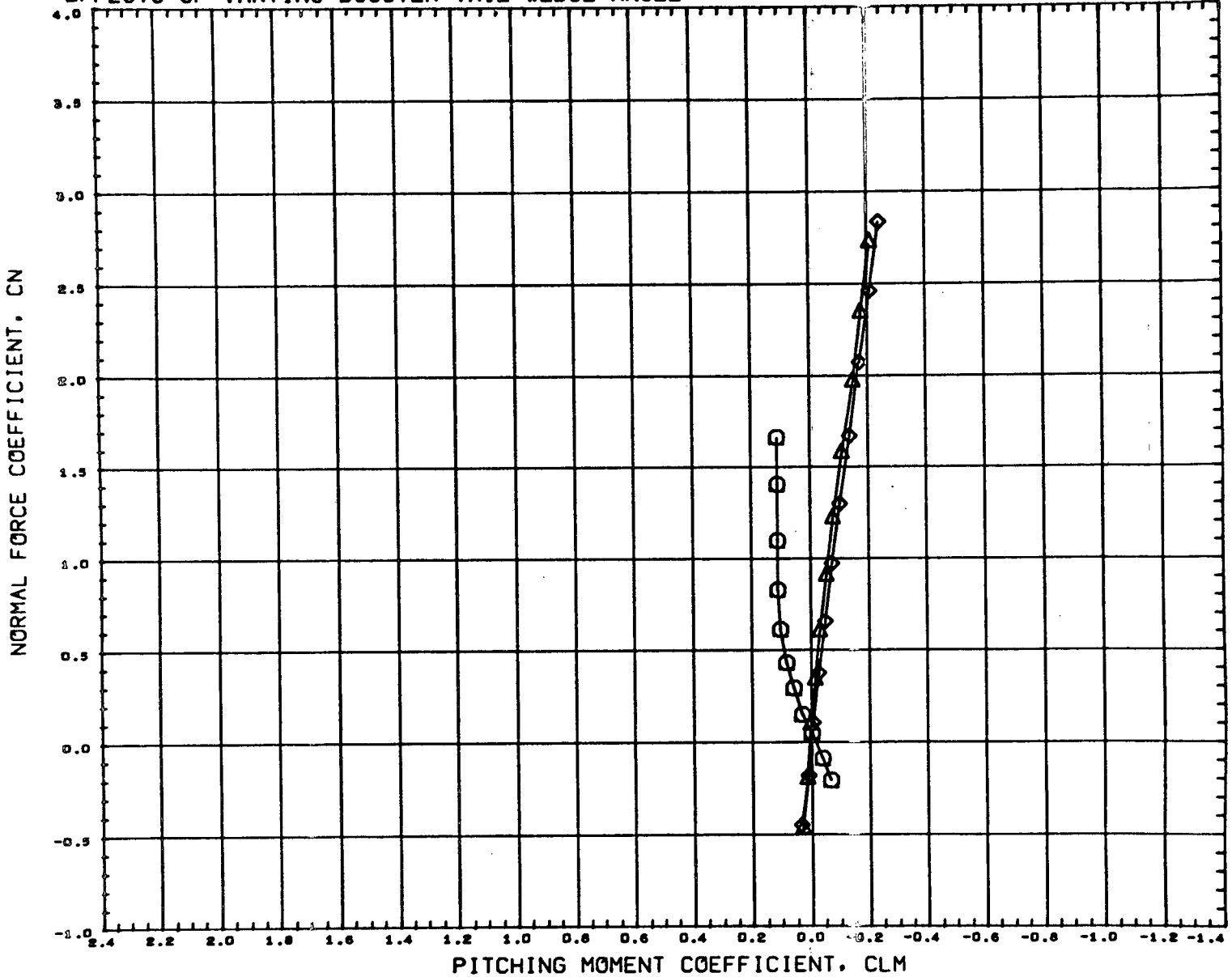


PITCHING MOMENT COEFFICIENT, CLM

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		BETA	PHIM00	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50110)	○	MSFC 512 GD/C .003366 BOOSTER	B34R6	0.000	45.000			SREF	0.9350 90. IN.
(E50010)	△	MSFC 512 GD/C .003366 BOOSTER	B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D90040)	◇	MSFC 512 GD/C .003366 BOOSTER	B34R6T11	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
								XMRF	3.7920 INCHES
								YMRF	0.0000 INCHES
								ZMRF	0.0000 INCHES
								SCALE	0.0034

MACH 1.966

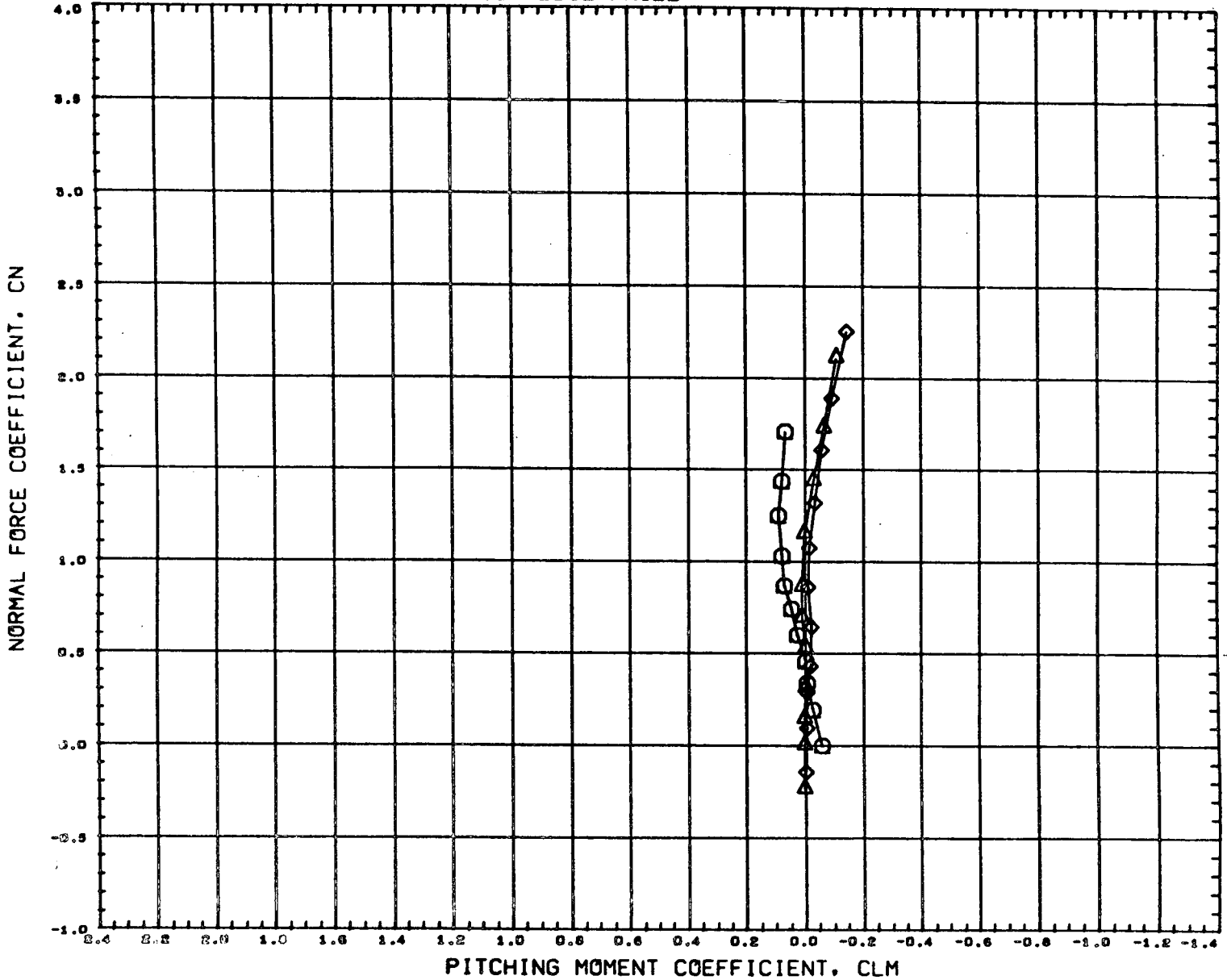
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.9350 80. IN.
(E50010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

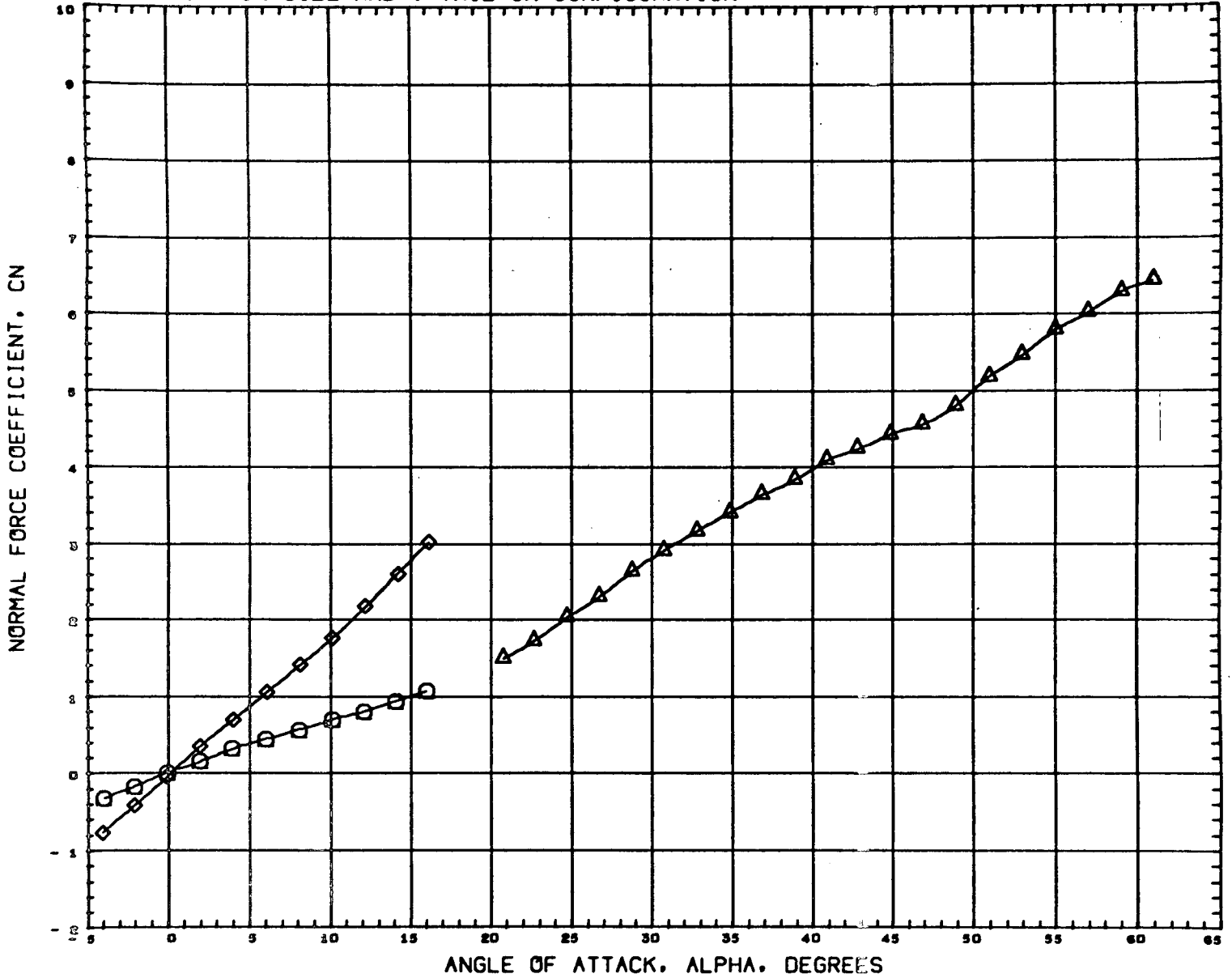
EFFECTS OF VARYING BOOSTER TAIL WEDGE ANGLE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50040)	MSFC 512 GD/C .003366 BOOSTER B34R6T11	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 4.959

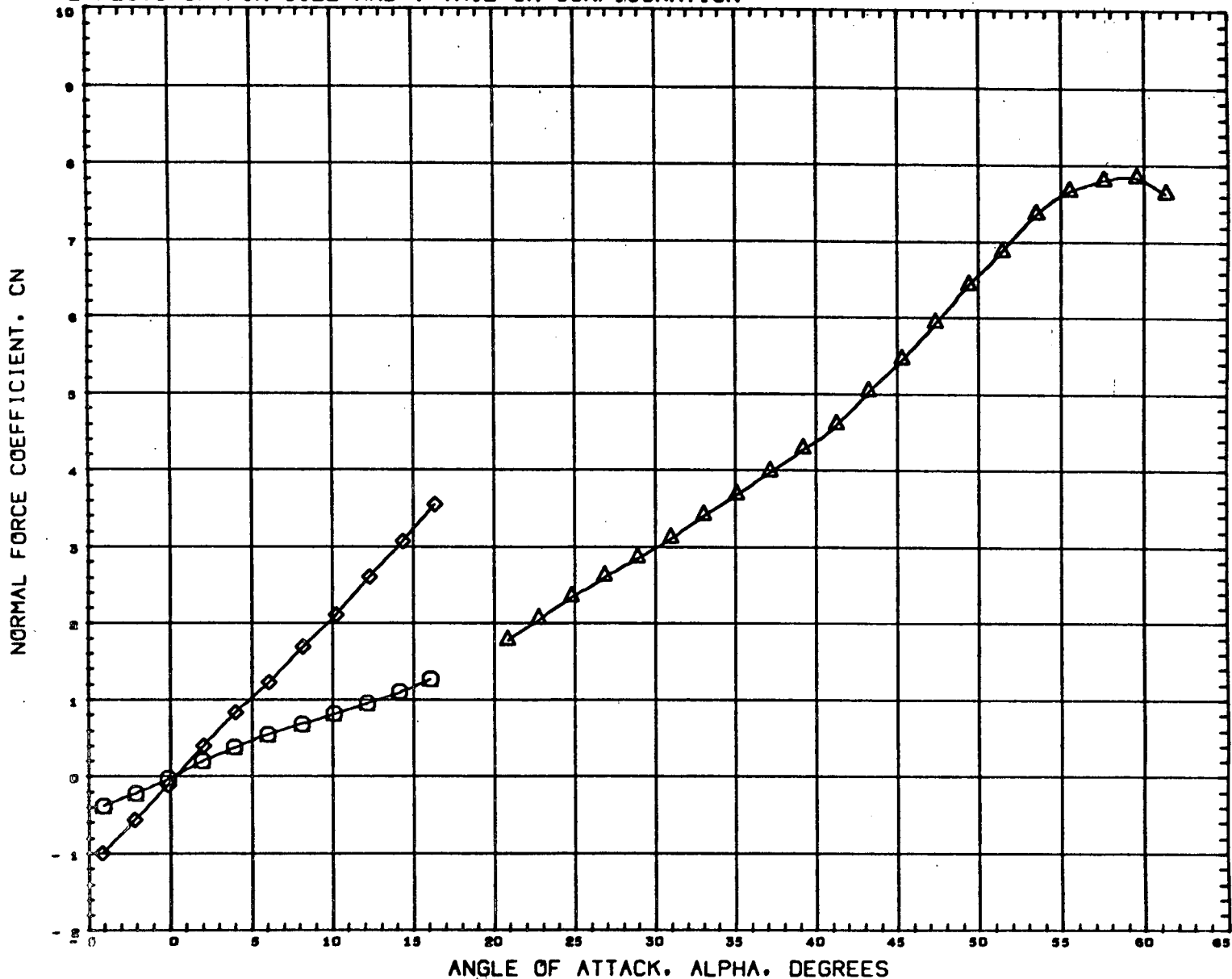
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(050118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 80. IN.
(050028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(050050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(05016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.603

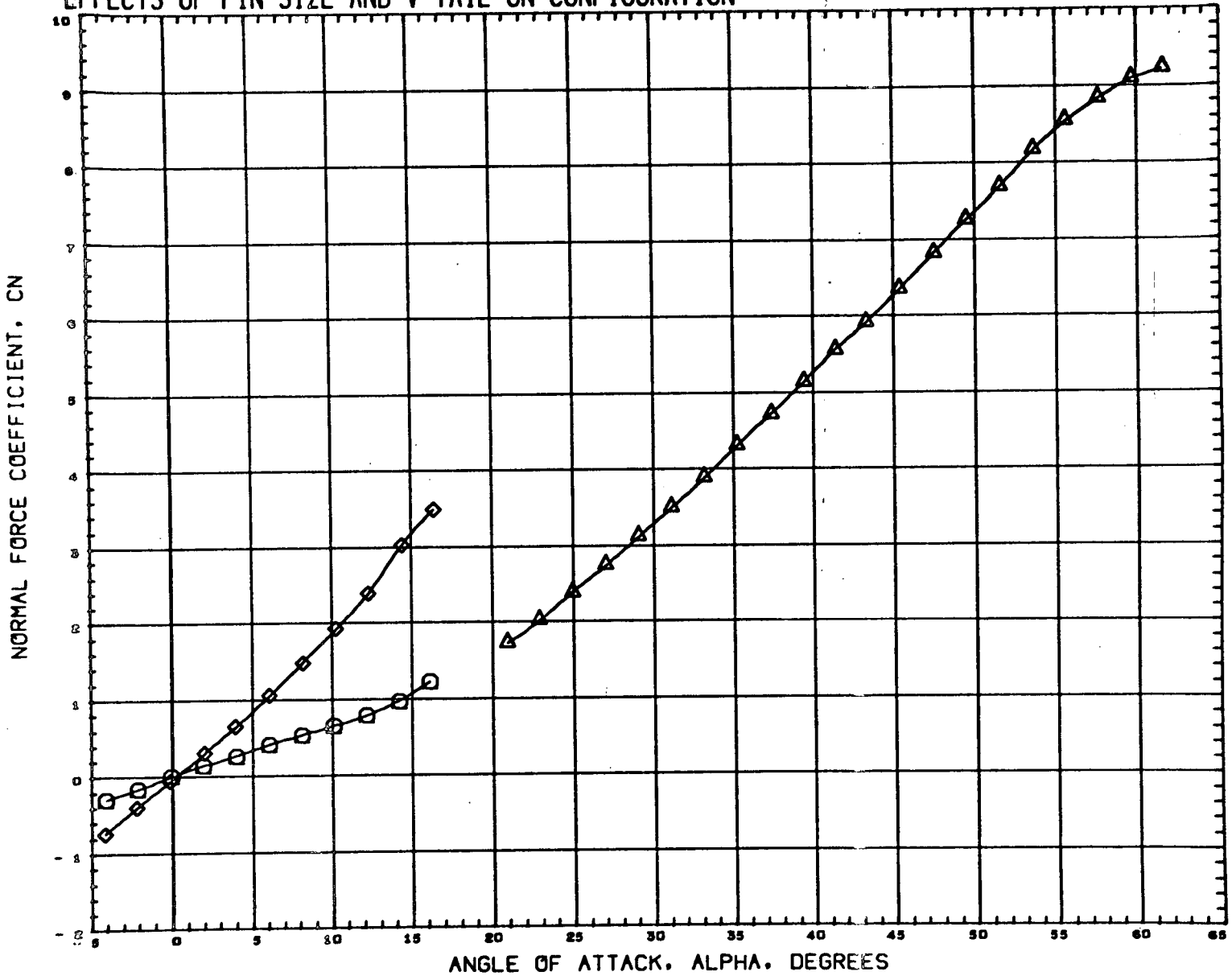
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(D90118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 30.IN.
(D90028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D90010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D90030)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(D9016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.900

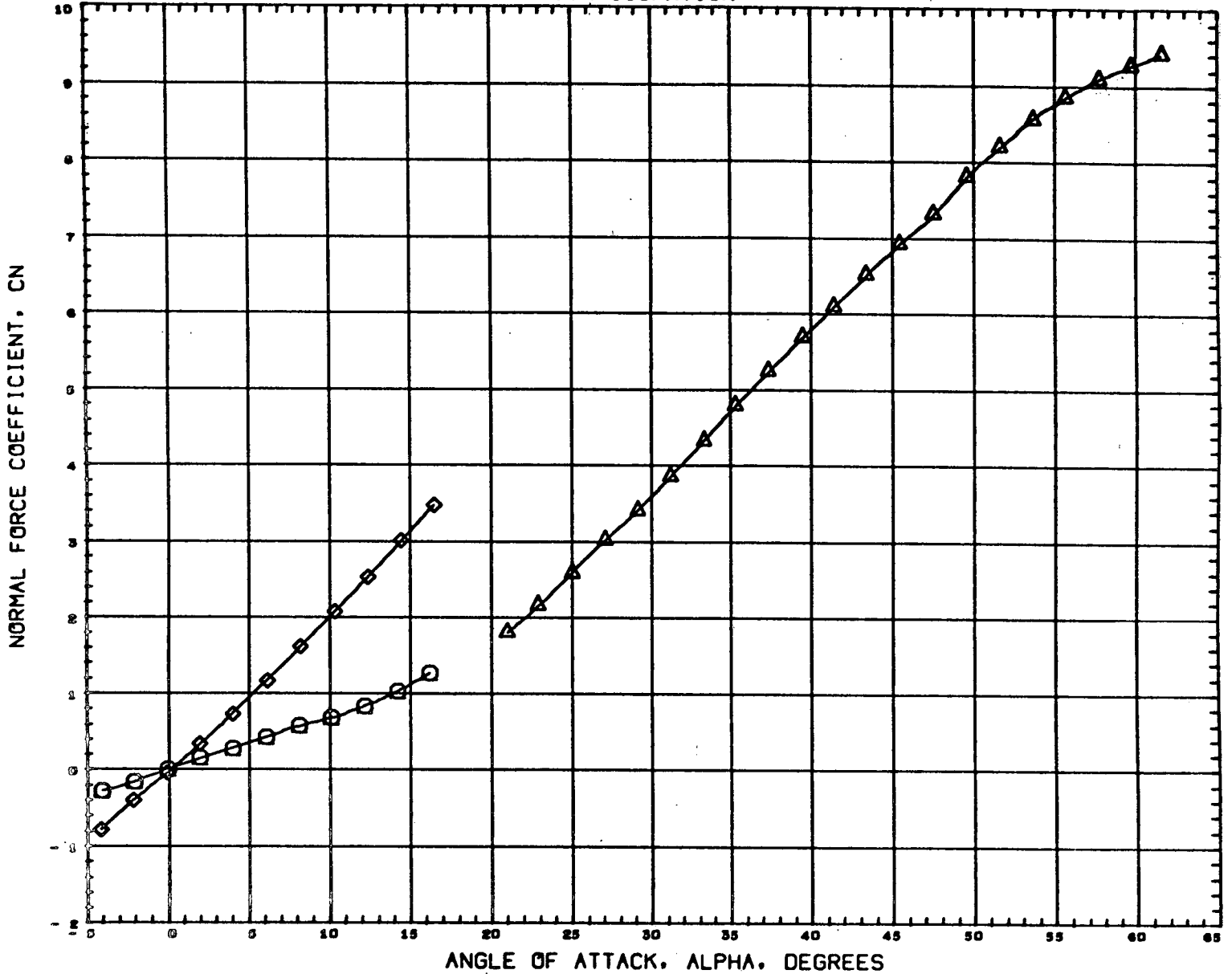
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 sq. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XHRP 3.7920 INCHES
(D50162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

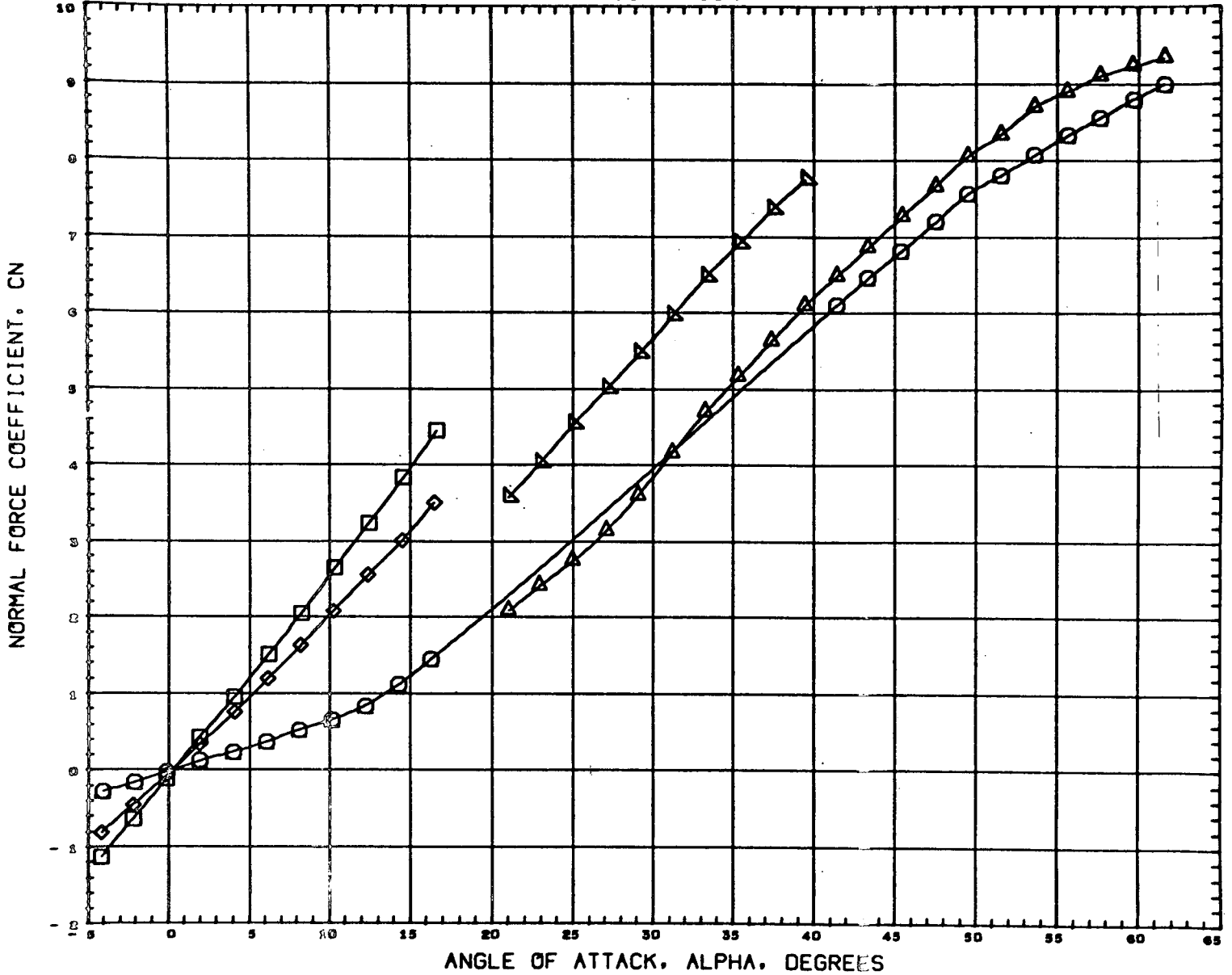
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 99. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	YNRP 3.7920 INCHES
(D50162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YNRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

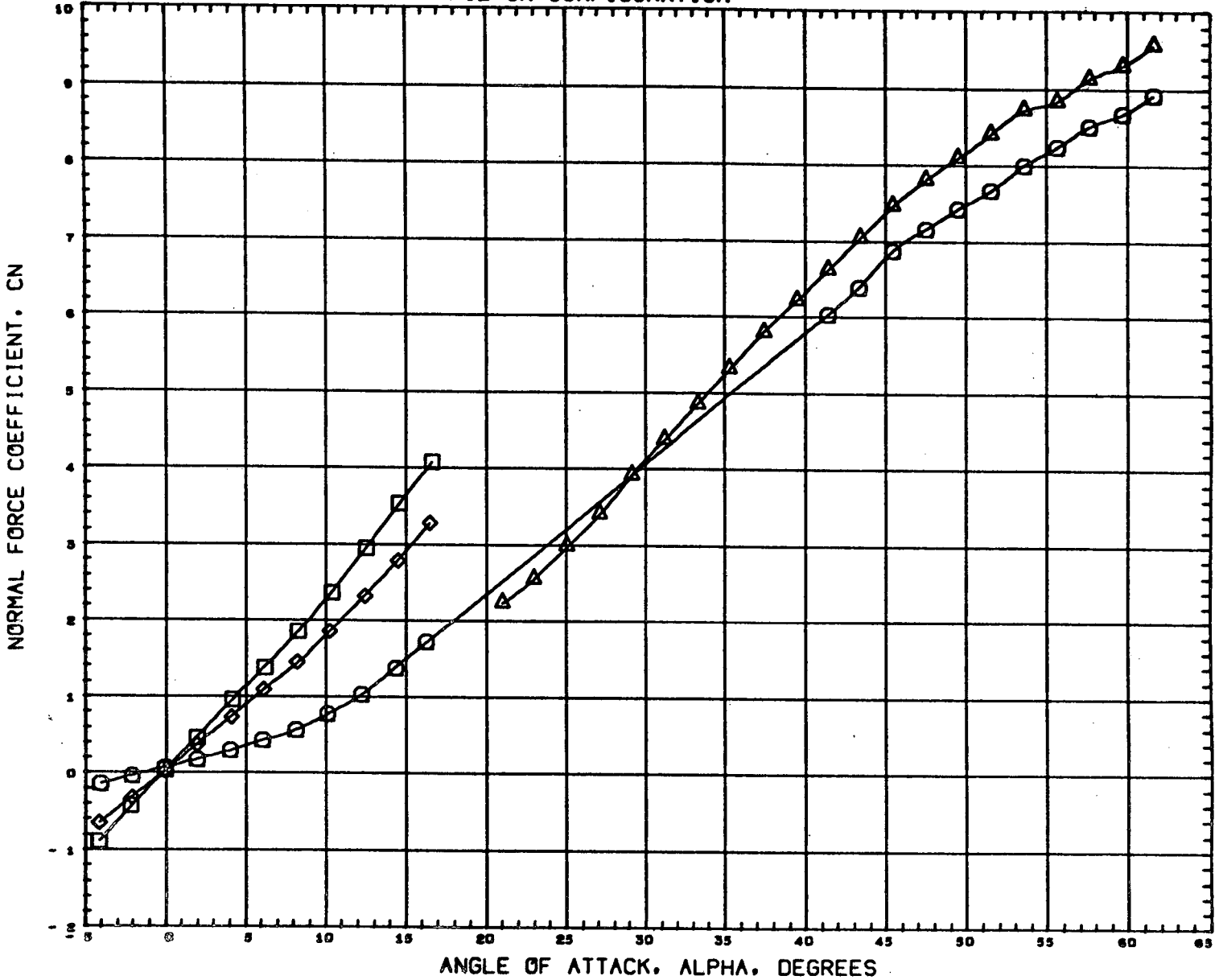
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 SQ. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000			LREF	6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(D5016Z)	MSFC 512 GD/C .003366 BOOSTER B34R6T12 (INVERTED)	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.450

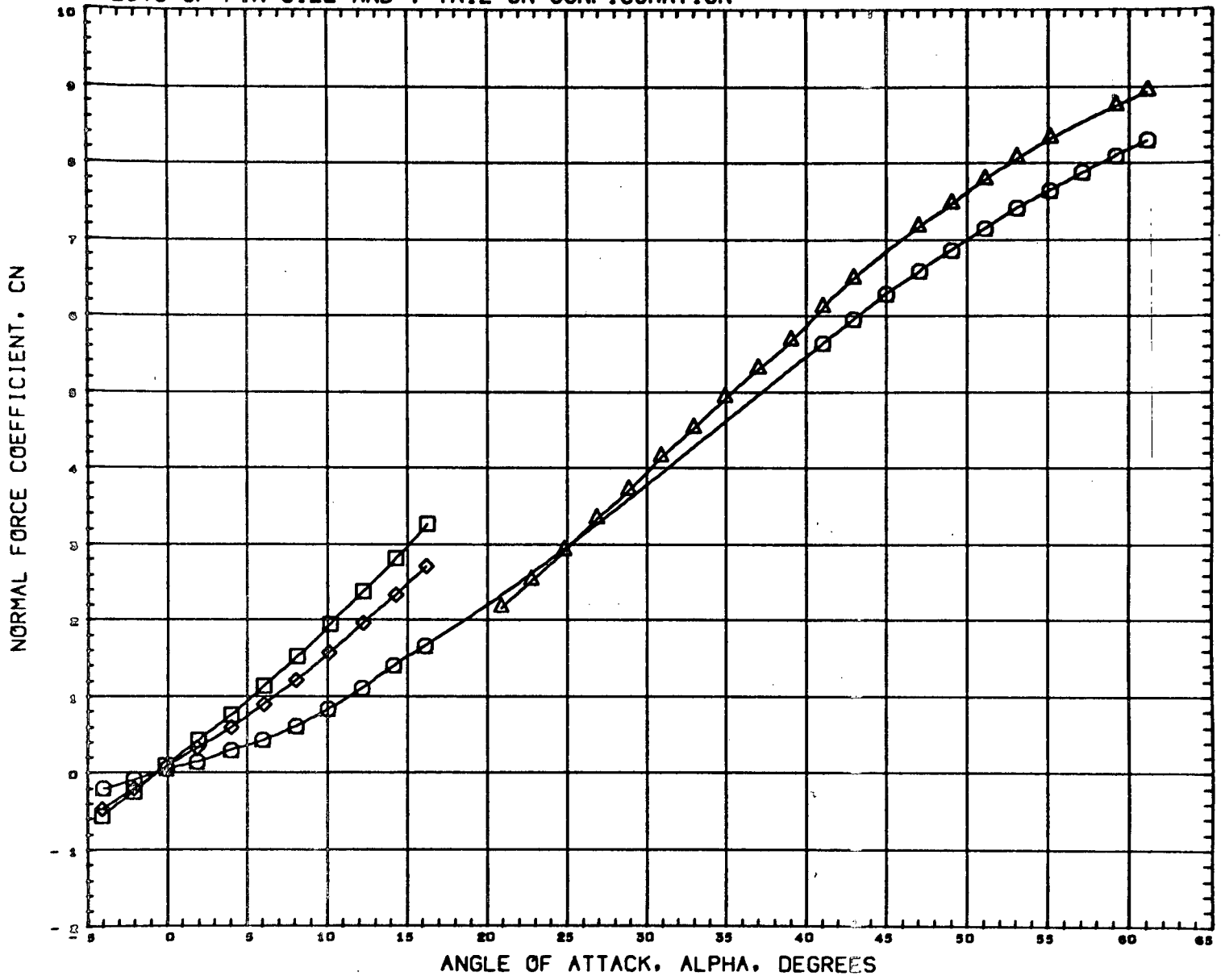
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION
(050118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 30. IN.
(050028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050016)	MSFC 512 GD/C .003366 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050030)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(05016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.966

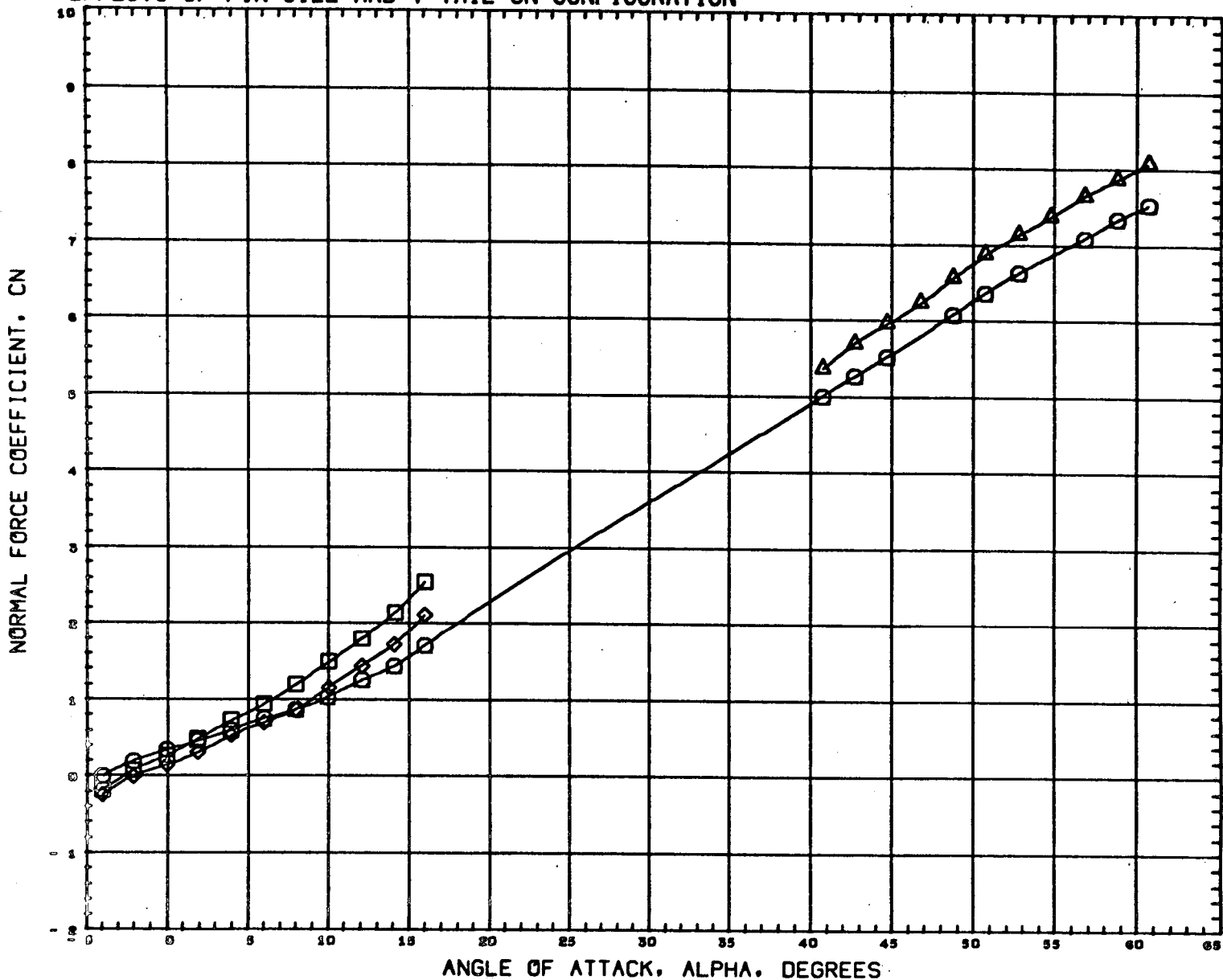
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 39. IN.
(D50025)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

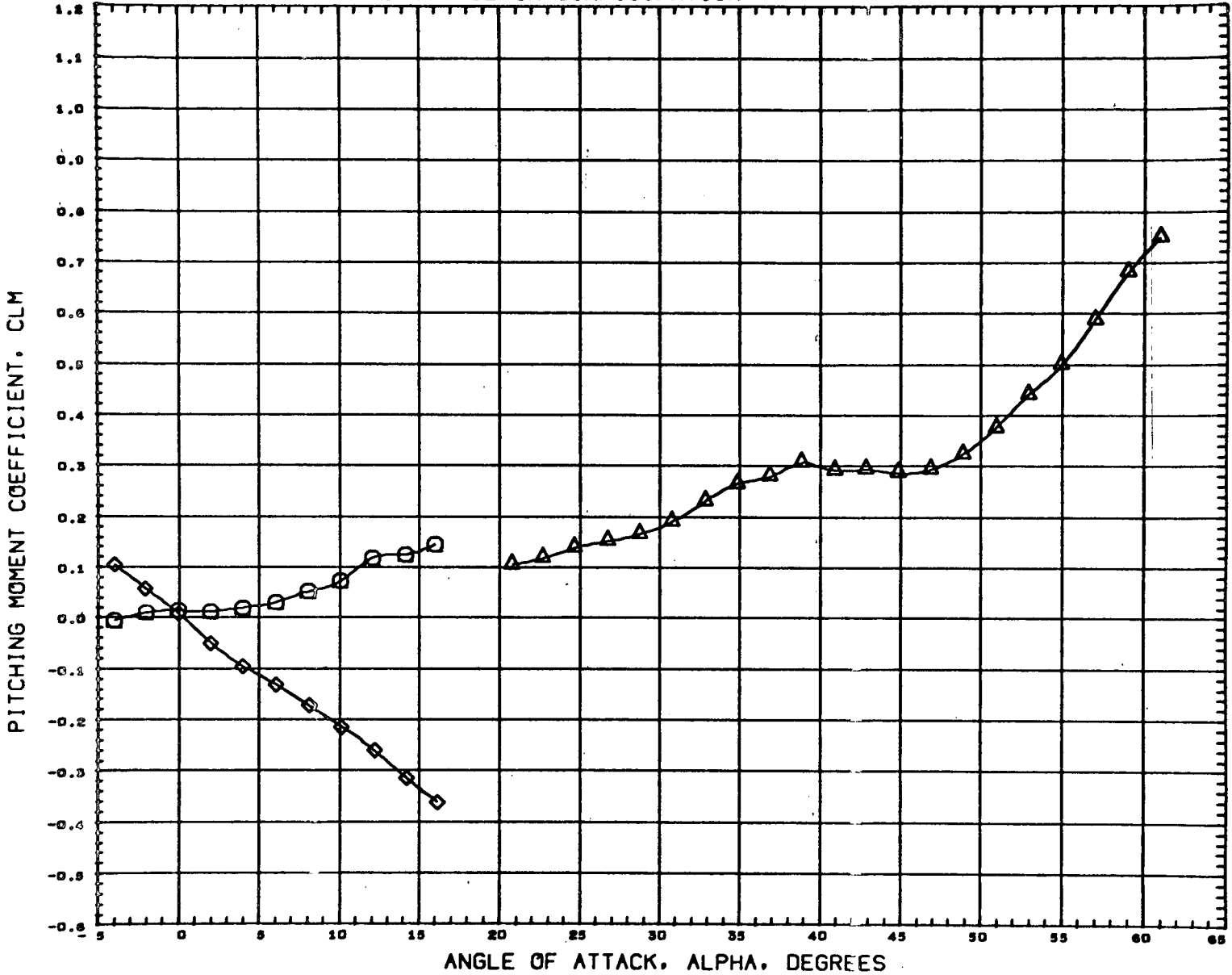
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050118)	○	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 89. IN.
(050028)	△	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	○	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(05016Z)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 4.959

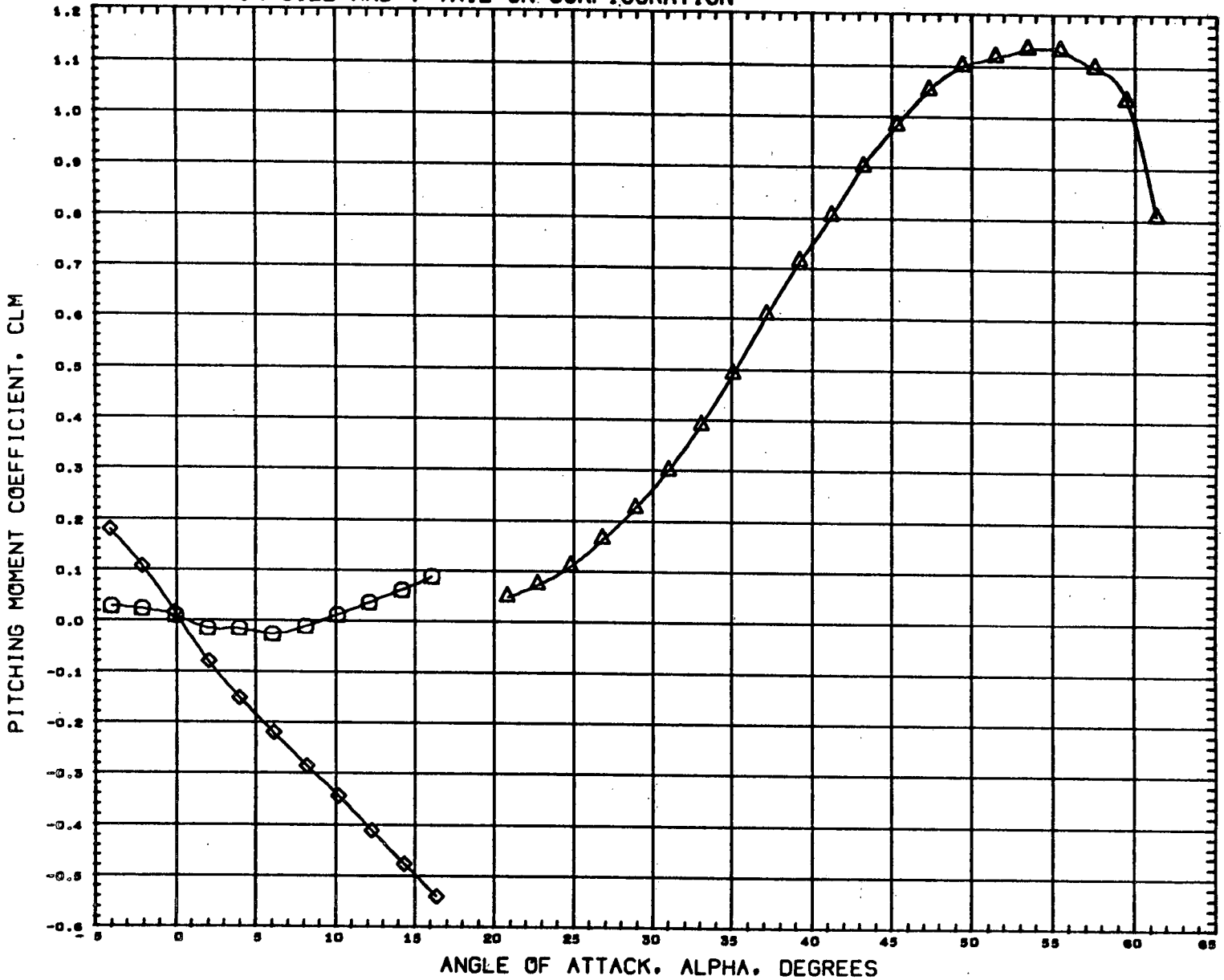
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

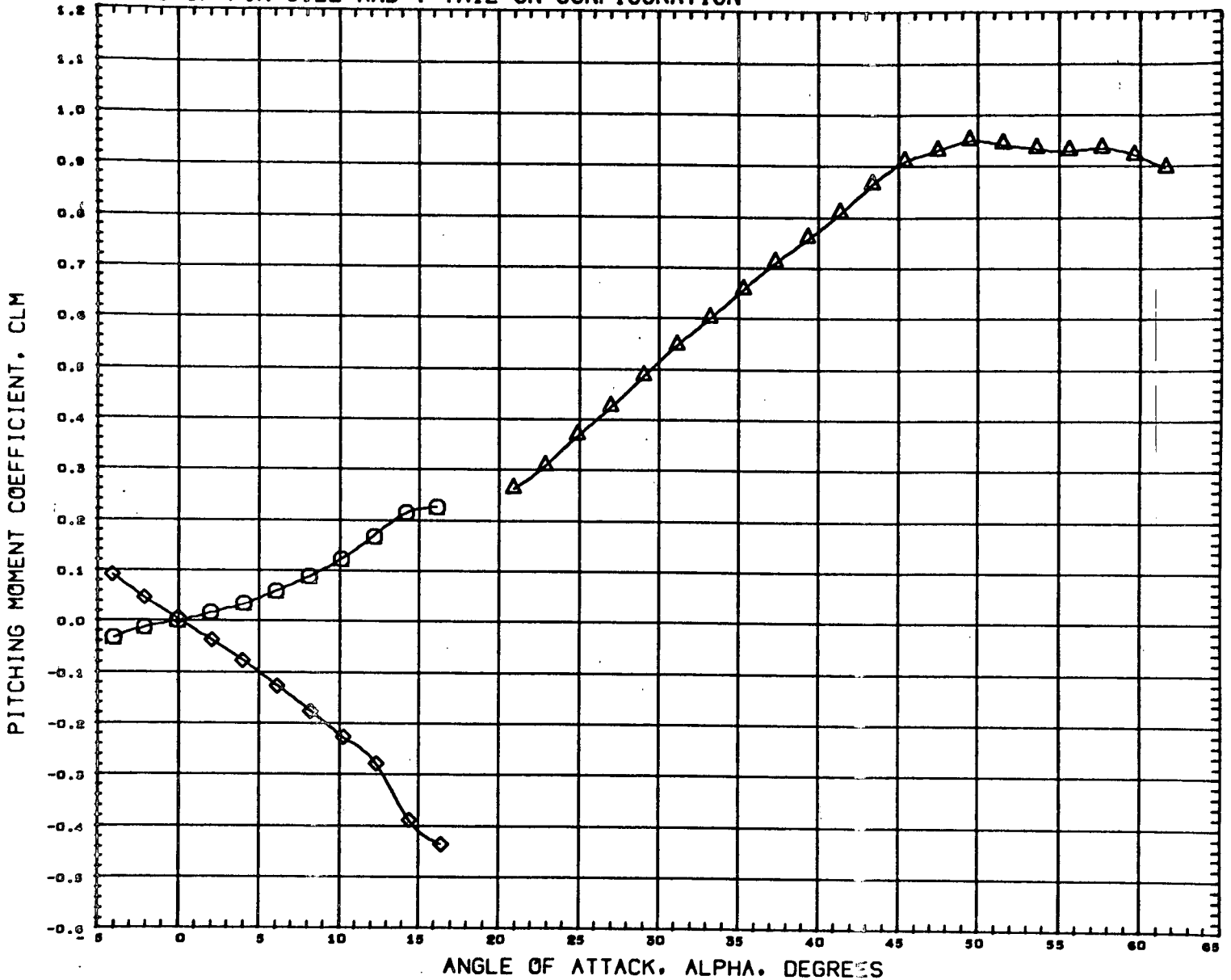
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION		
(050188)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9550	80. IN.
(050028)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310	INCHES
(050010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910	INCHES
(050050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP	3.7920	INCHES
(05016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP	0.0000	INCHES
						ZMRP	0.0000	INCHES
						SCALE	0.0034	

MACH 0.900

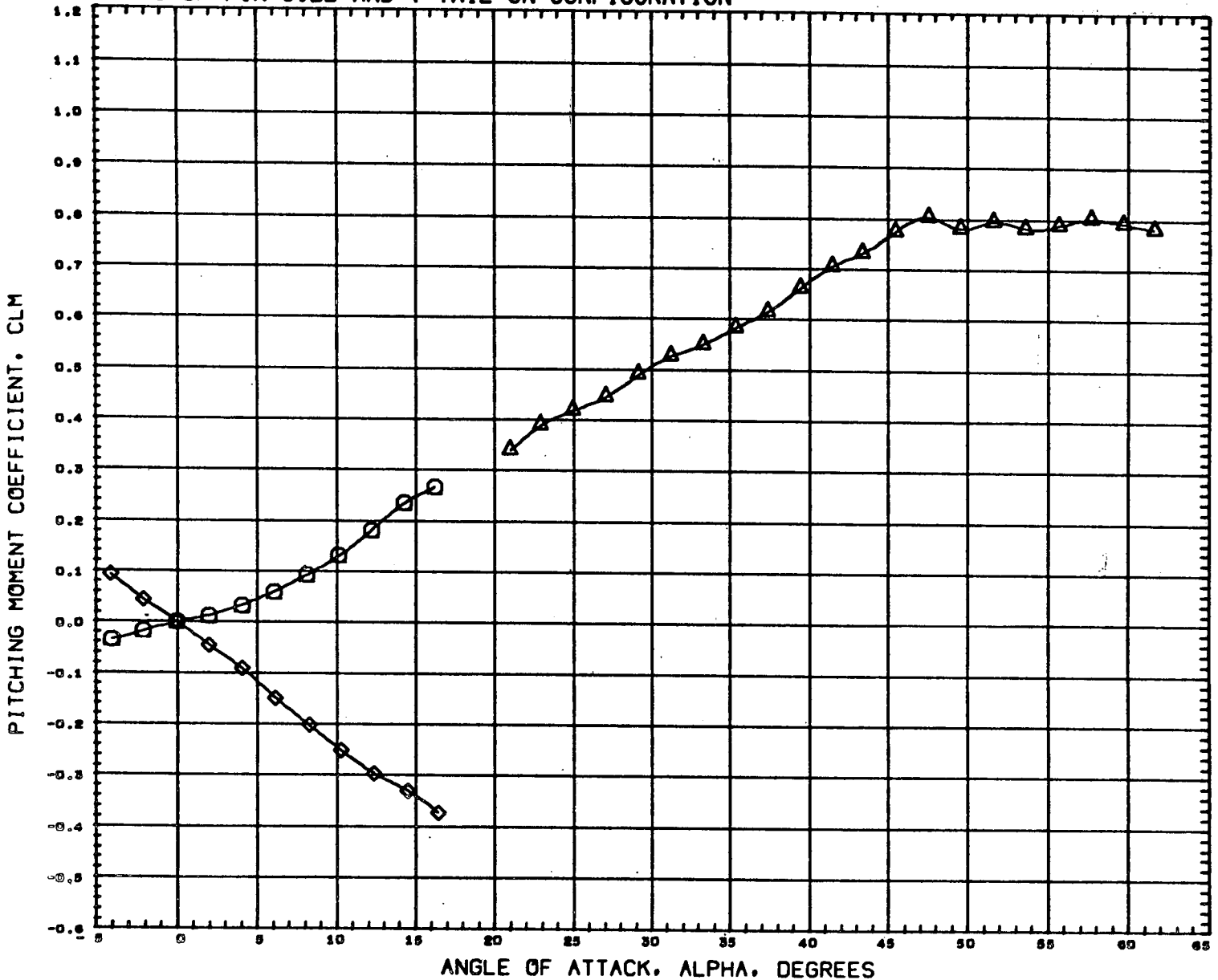
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION

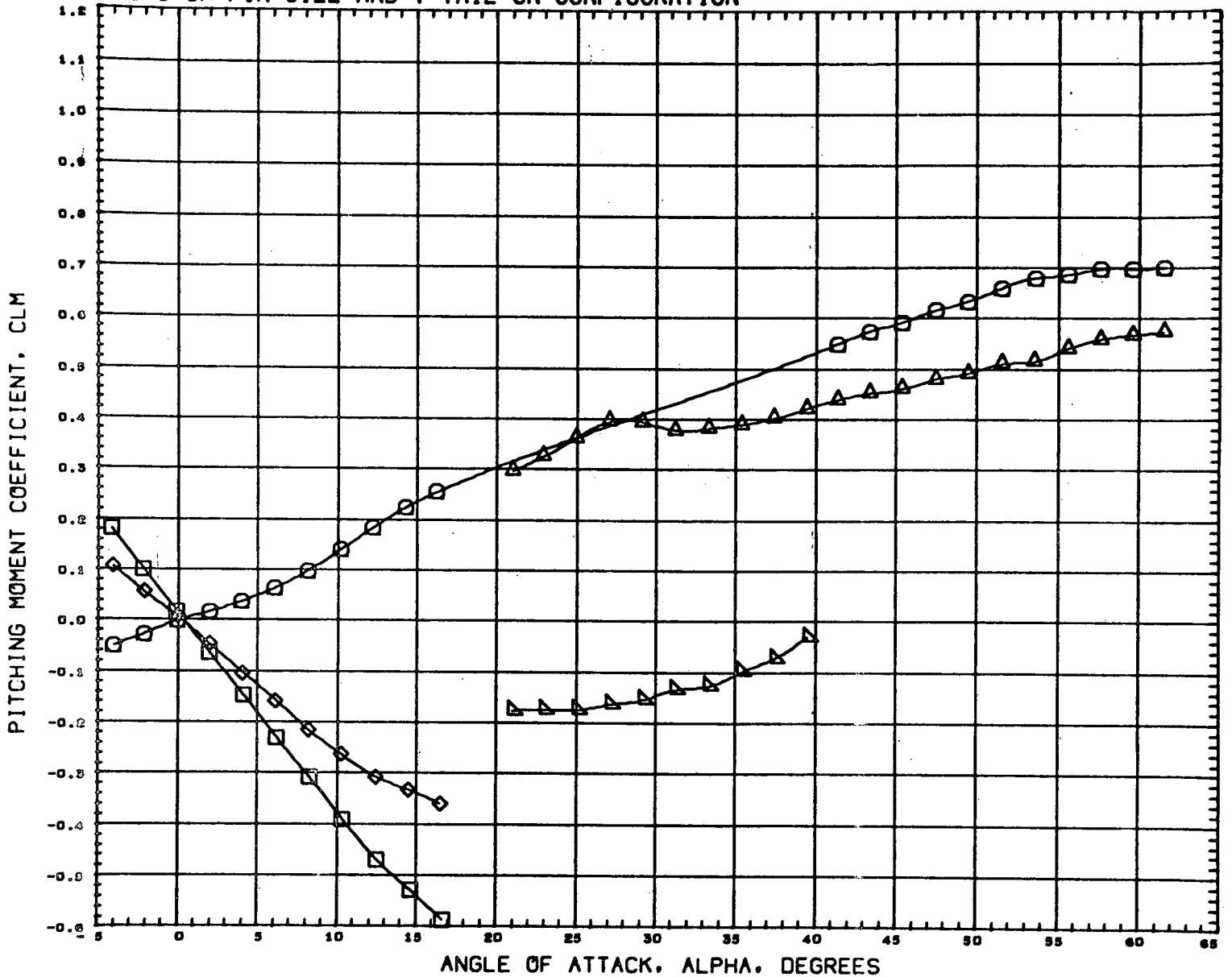


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9550 89. IN.
(D50028)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION

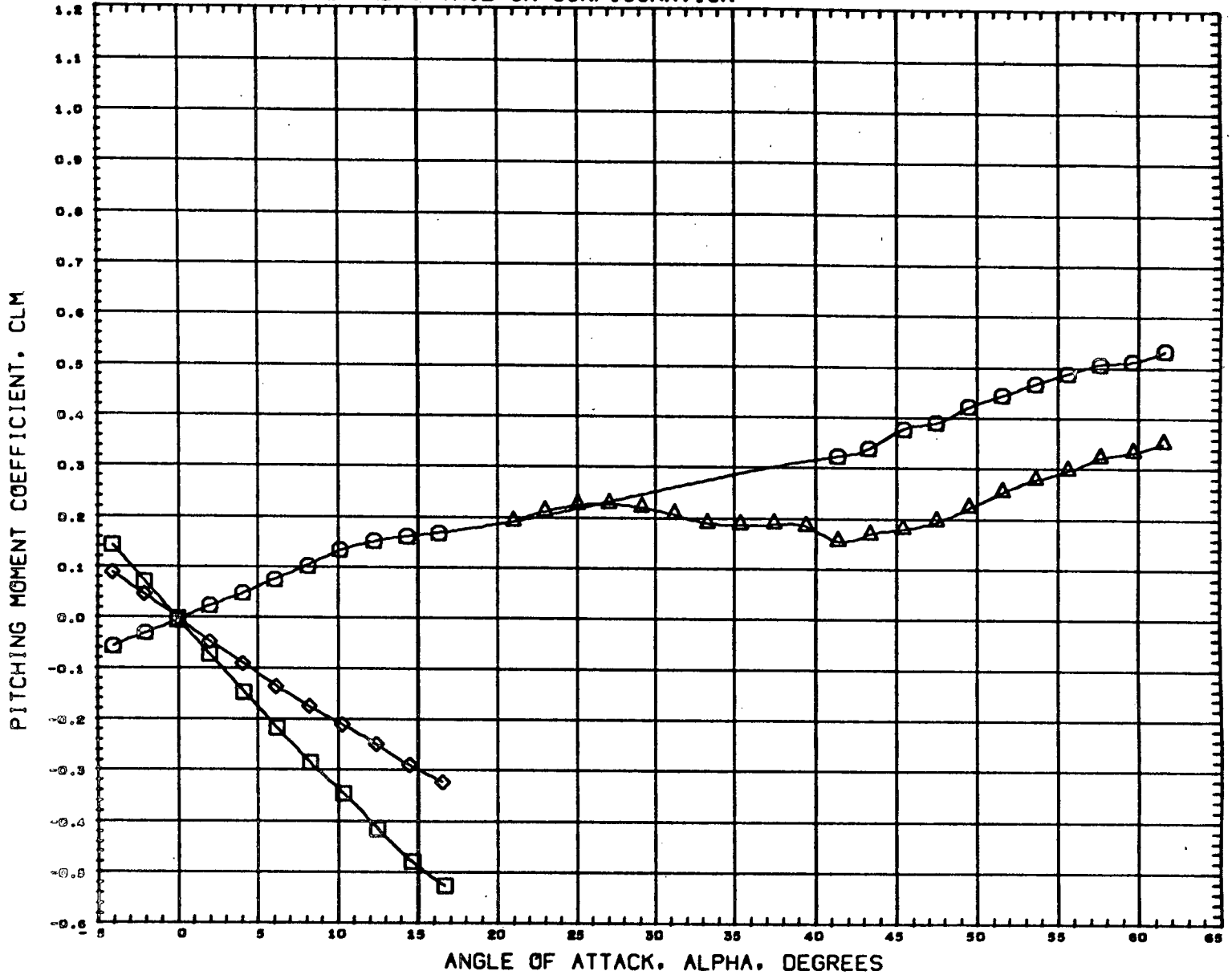


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 80. IN.
(050028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(050162)	MSFC 512 GD/C .003366 BOOSTER B34R6T12 (INVERTED)	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

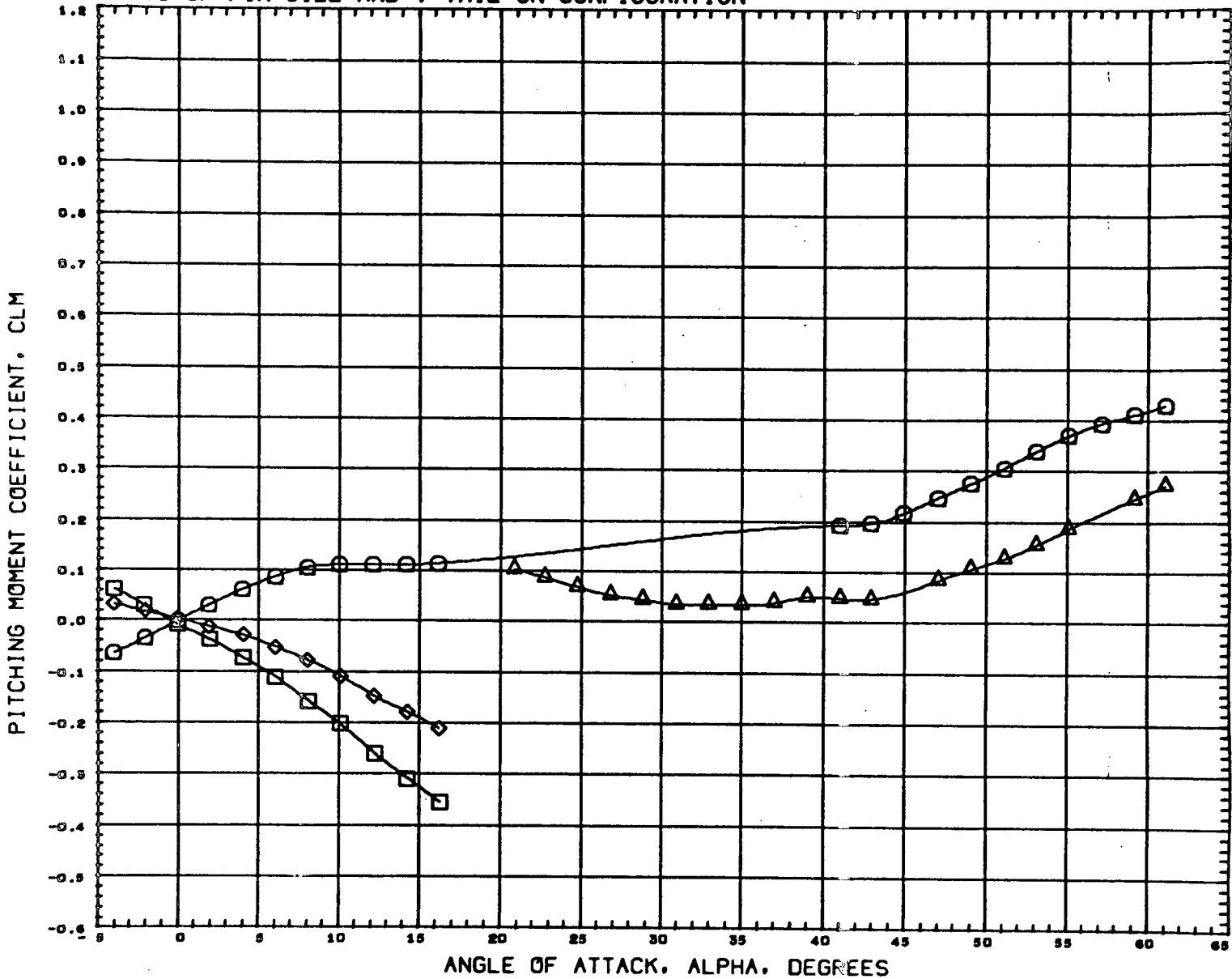
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D50028)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	M8FC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.966

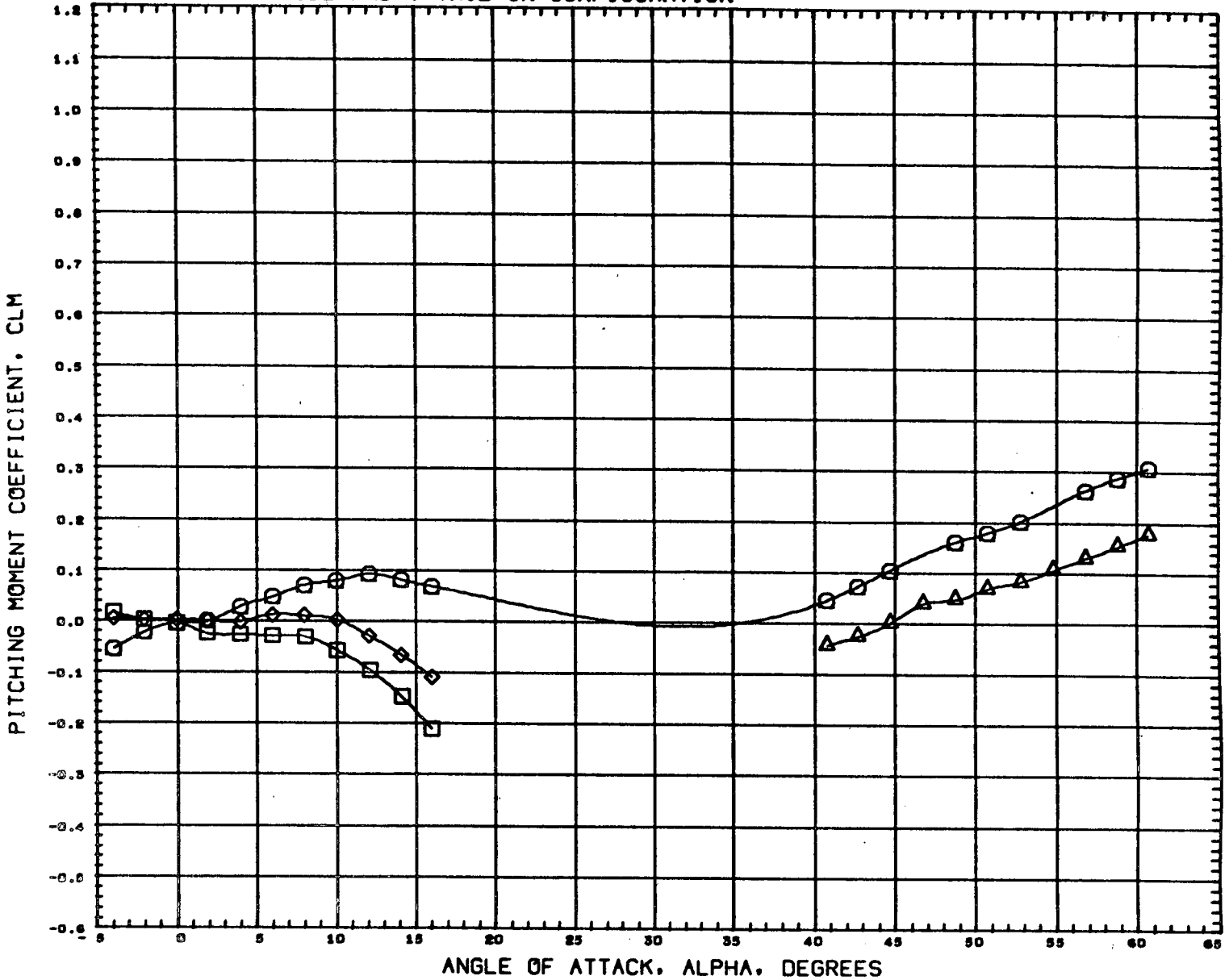
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 2.740

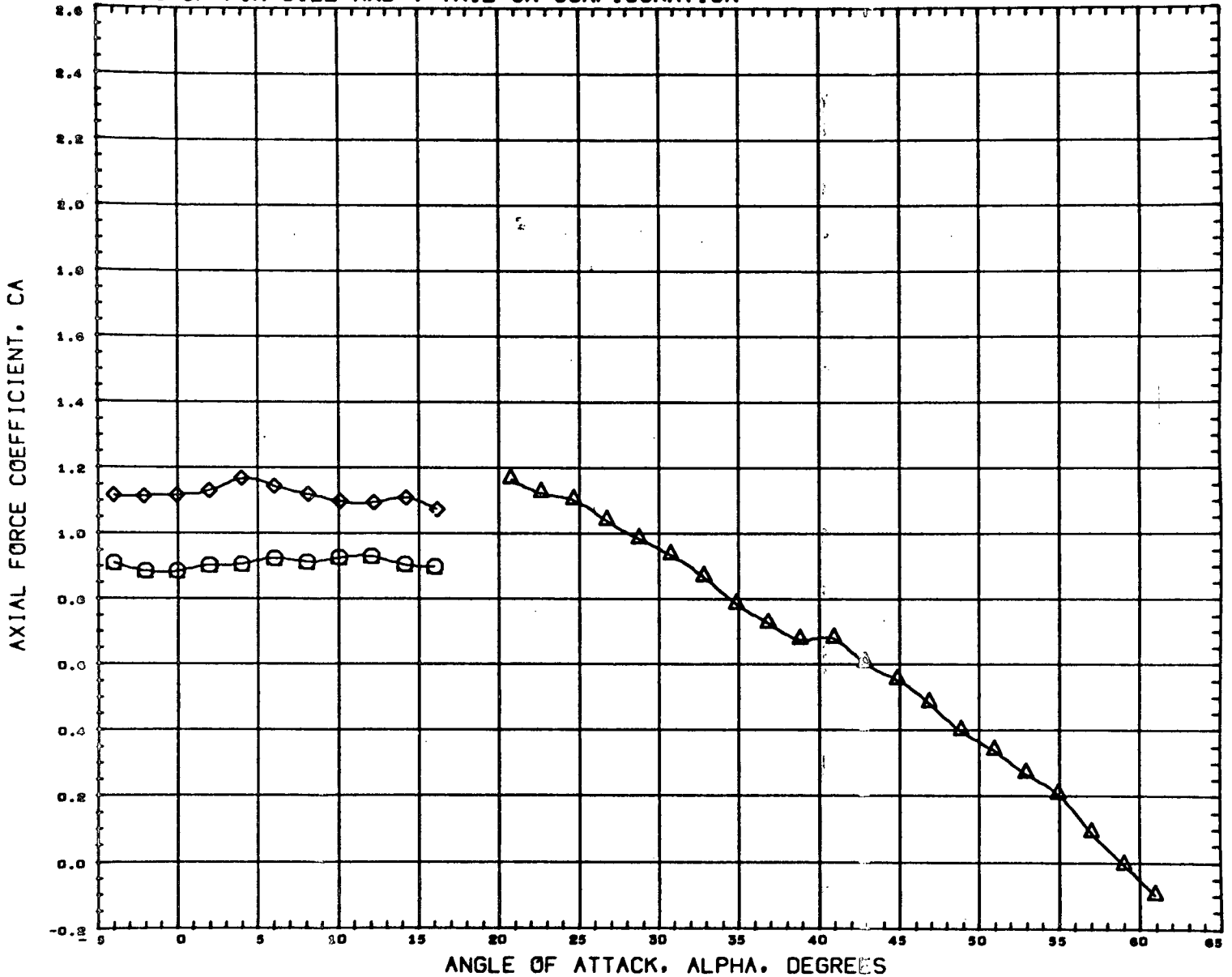
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(D50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 80. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.959

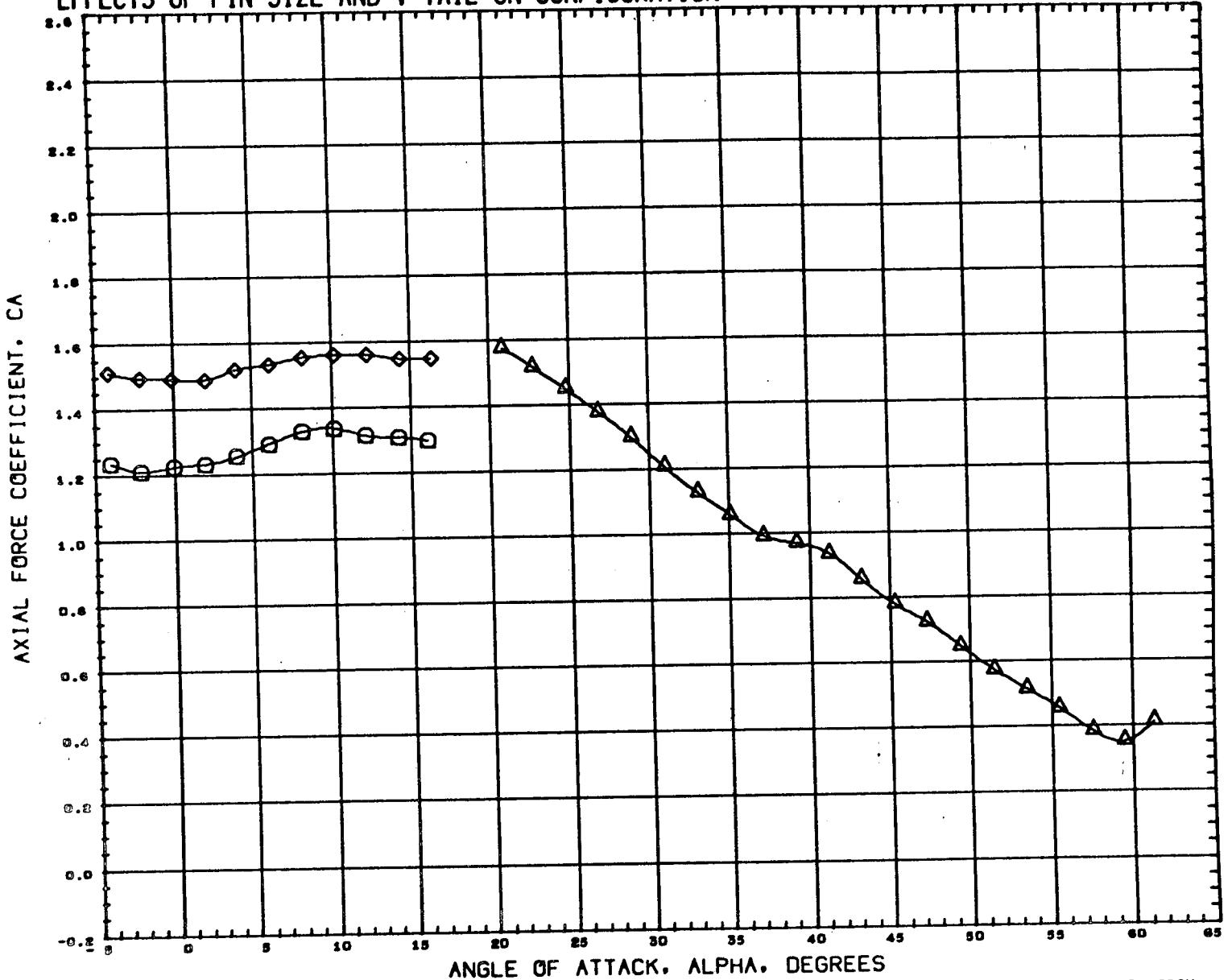
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIN00	LFLAP	RFLAP	REFERENCE INFORMATION
(050118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 30. IN.
(050028)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(050162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

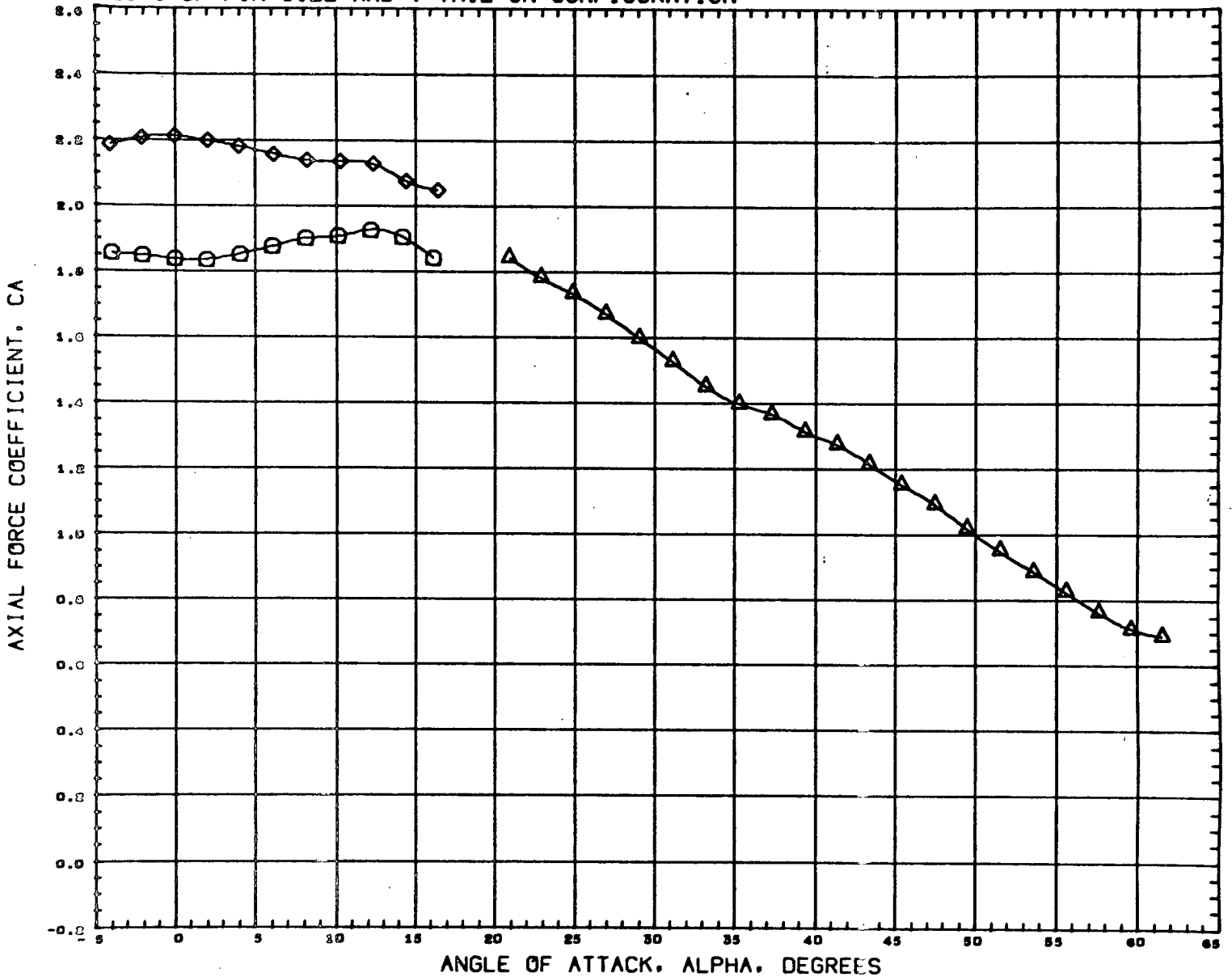
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(050180)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 80. IN.
(050020)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(050050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(05016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.900

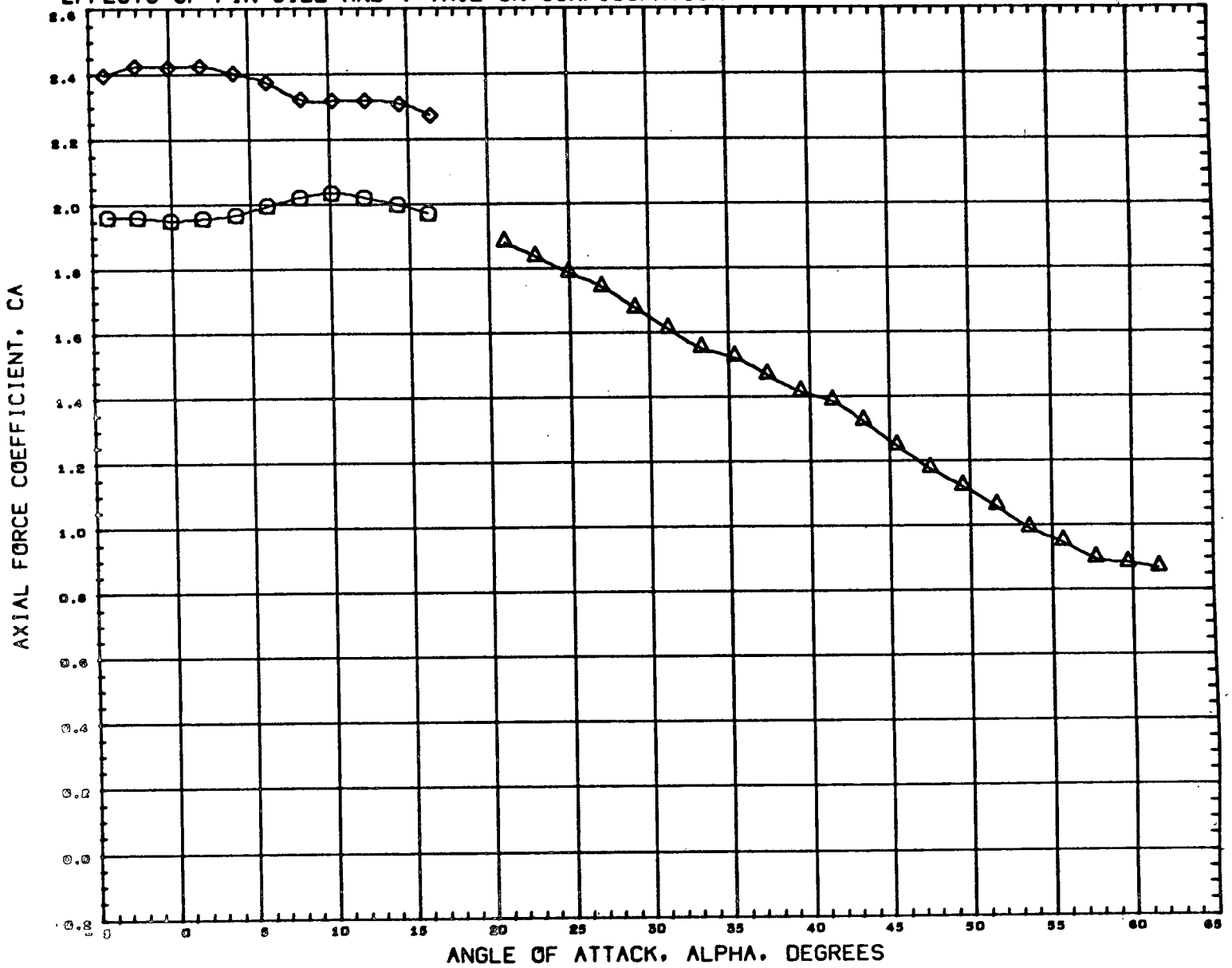
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D90118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 80. IN.
(D90028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D90010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XNRP 3.7920 INCHES
(D90162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YNRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

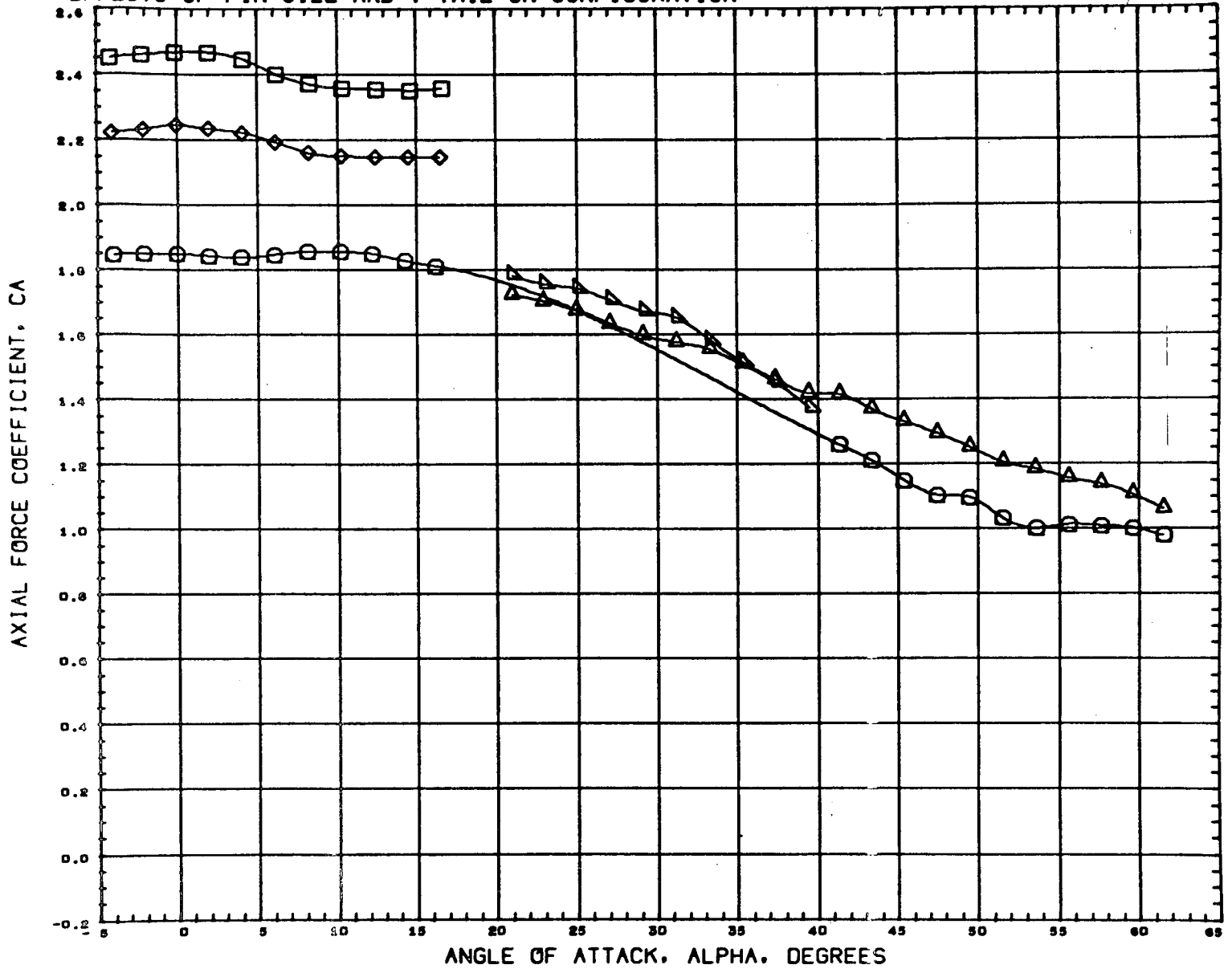
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D90116)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80 IN.
(D90025)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D90010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XHRP 3.7920 INCHES
(D90102)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

ORACH 1.201

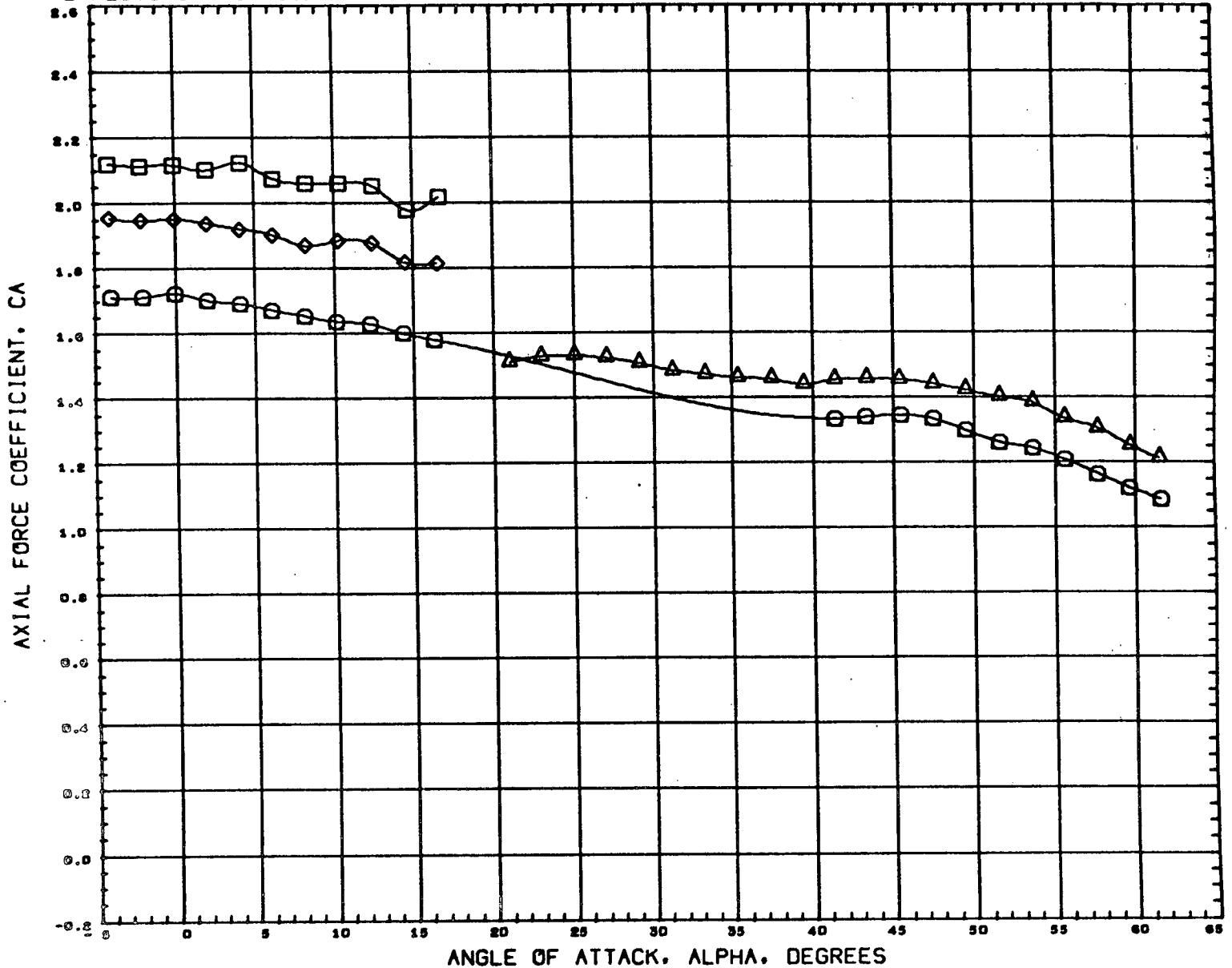
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050115)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(050028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(05016Z)	MSFC 512 GD/C .003366 BOOSTER B34R6T12 (INVERTED)	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

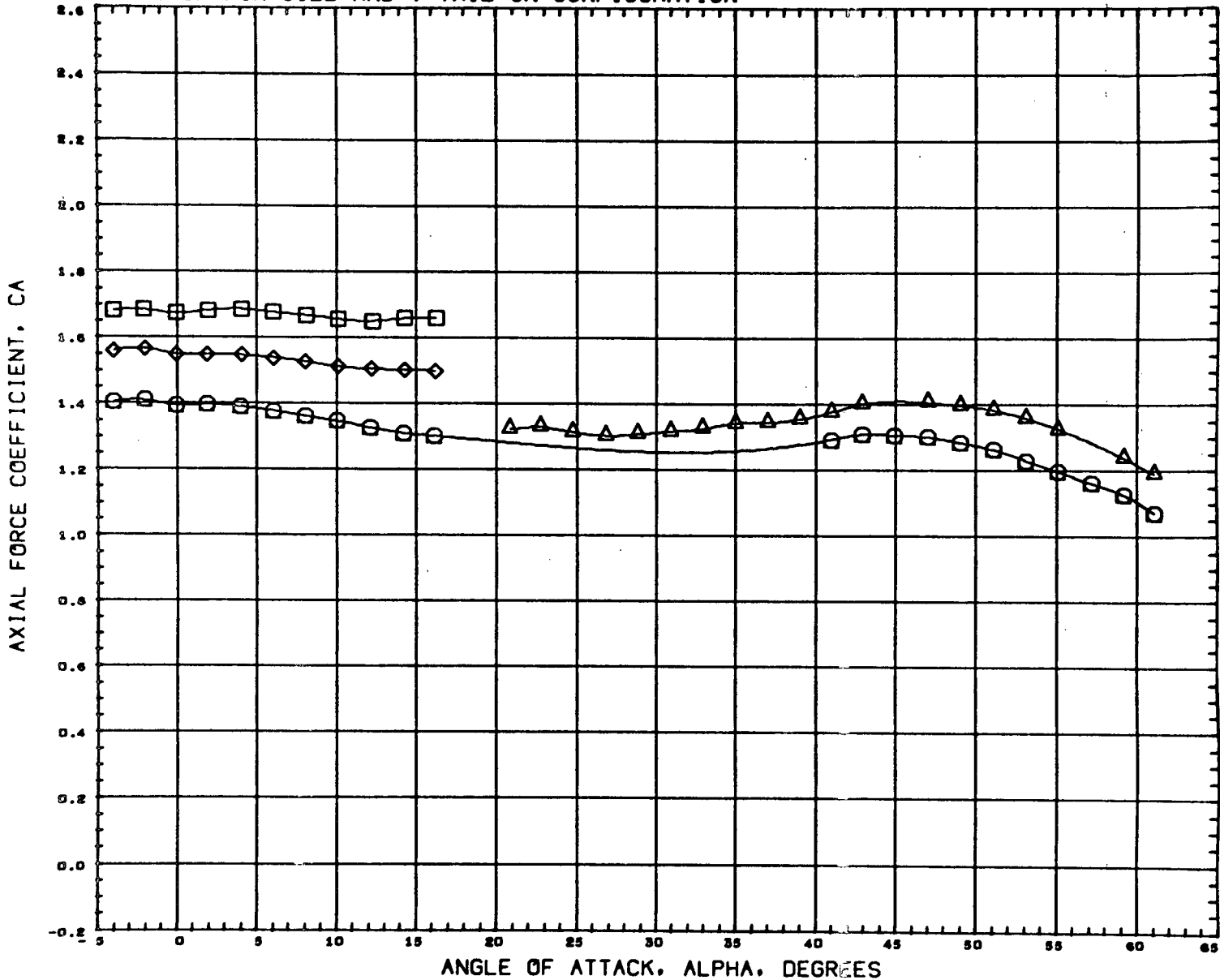
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(050028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 0.2310 INCHES
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(050162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

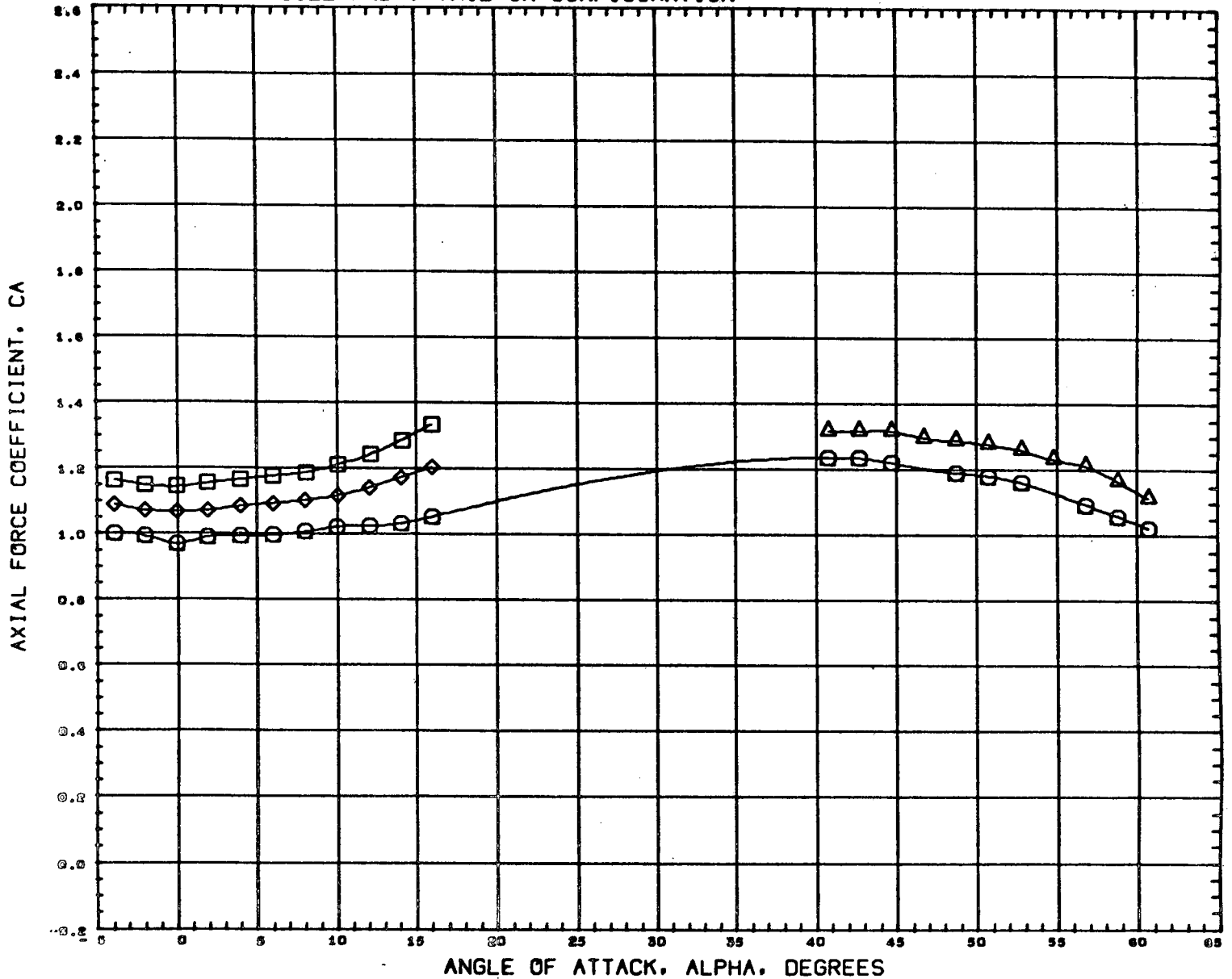
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	BETA	PHIN00	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	□	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 56. IN.
(D50029)	◇	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	△	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	○	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50162)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 2.740

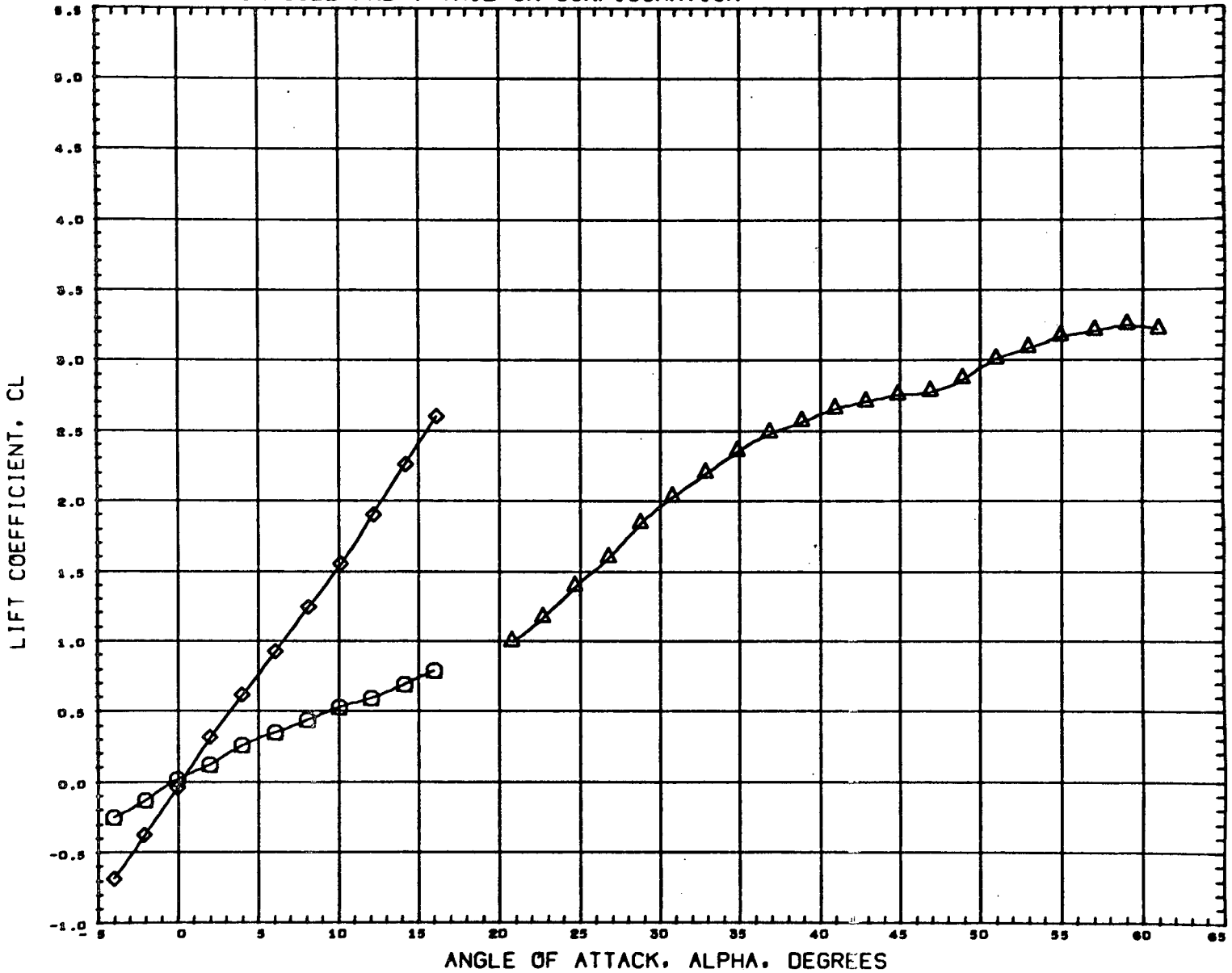
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMCO	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 89. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRF 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRF 0.0000 INCHES ZMRF 0.0000 INCHES SCALE 0.0034

MACH 4.959

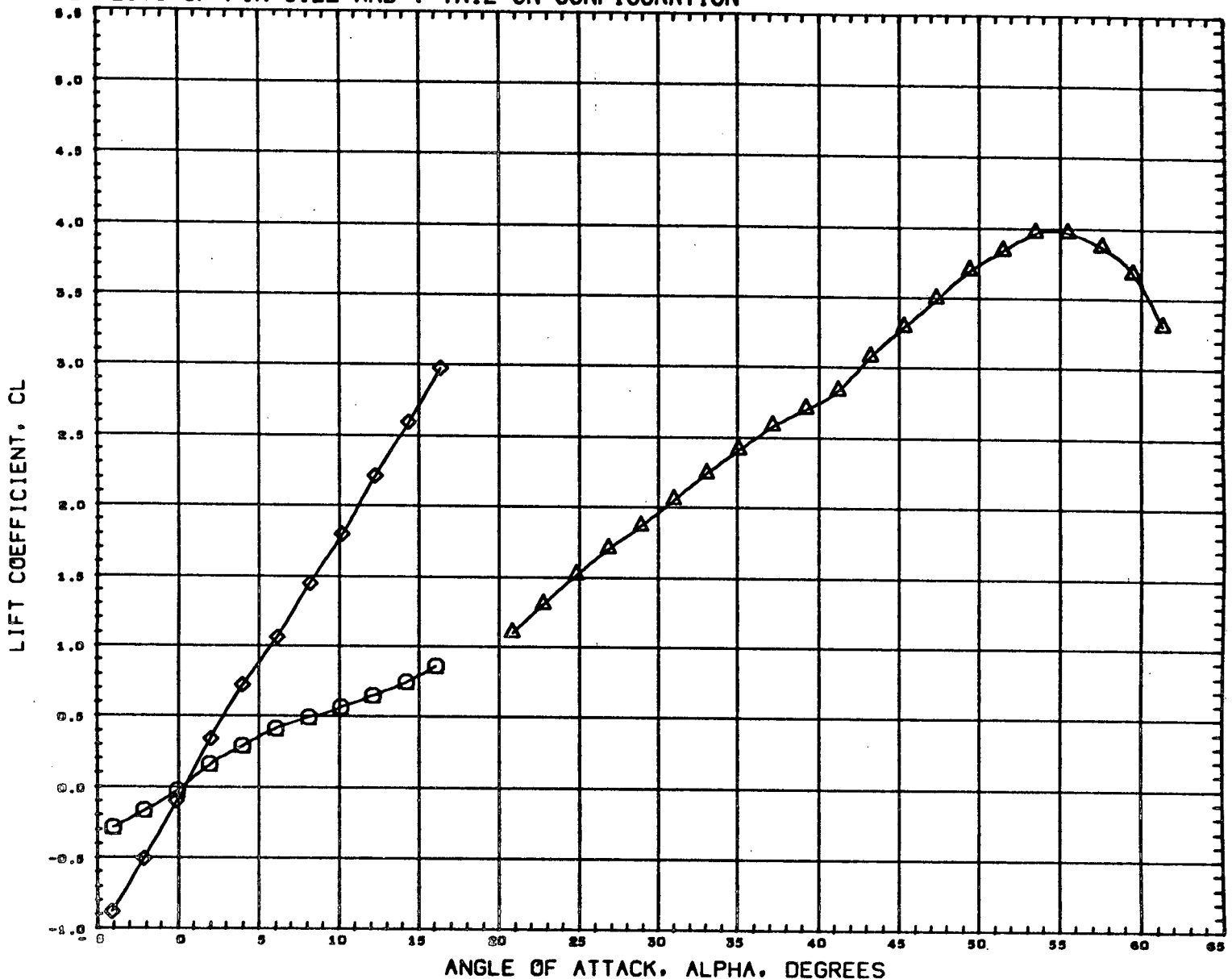
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R8	0.000	45.000			SREF 0.9350 88. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

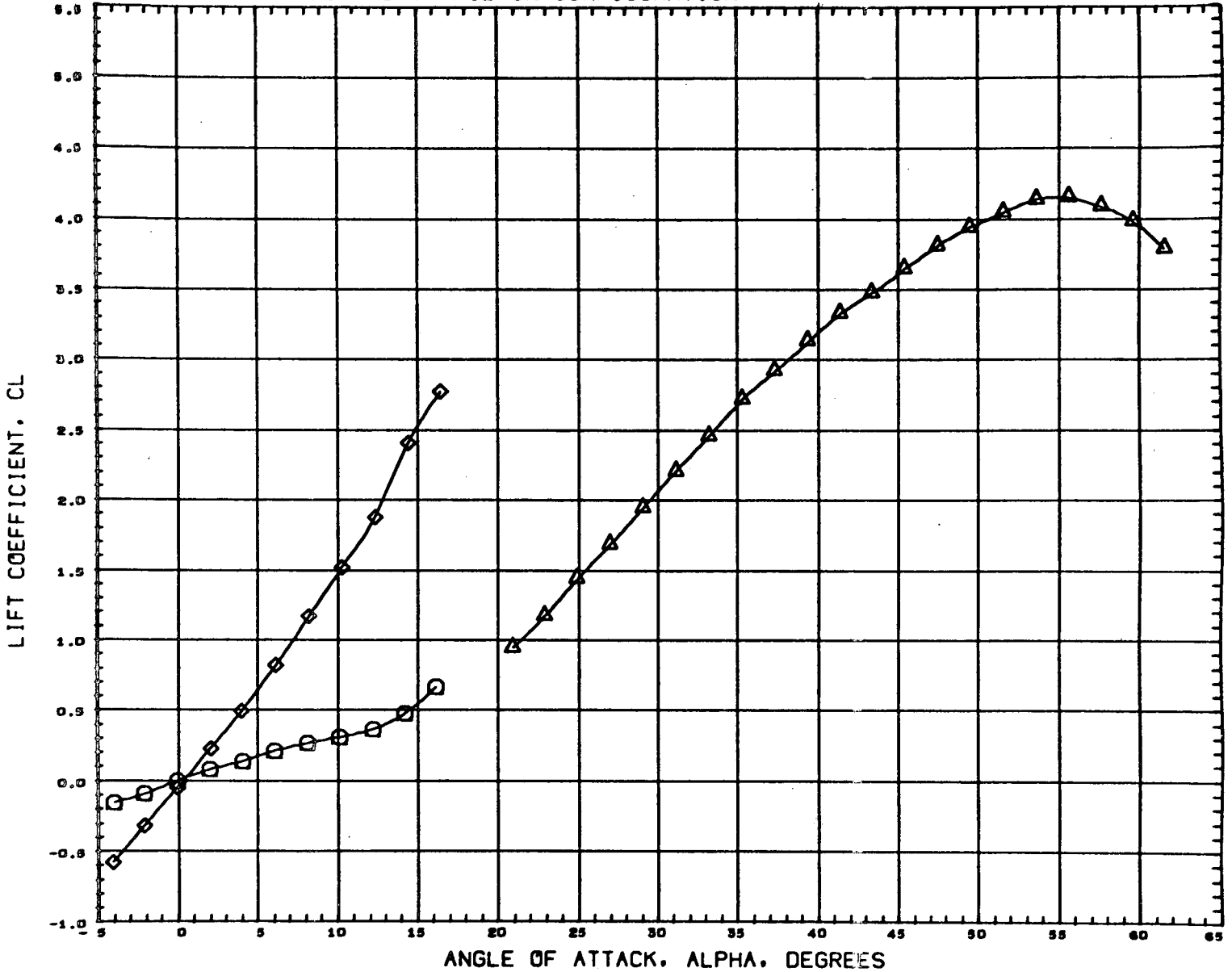
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 50. IN.
(050020)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRF 3.7920 INCHES
(05016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

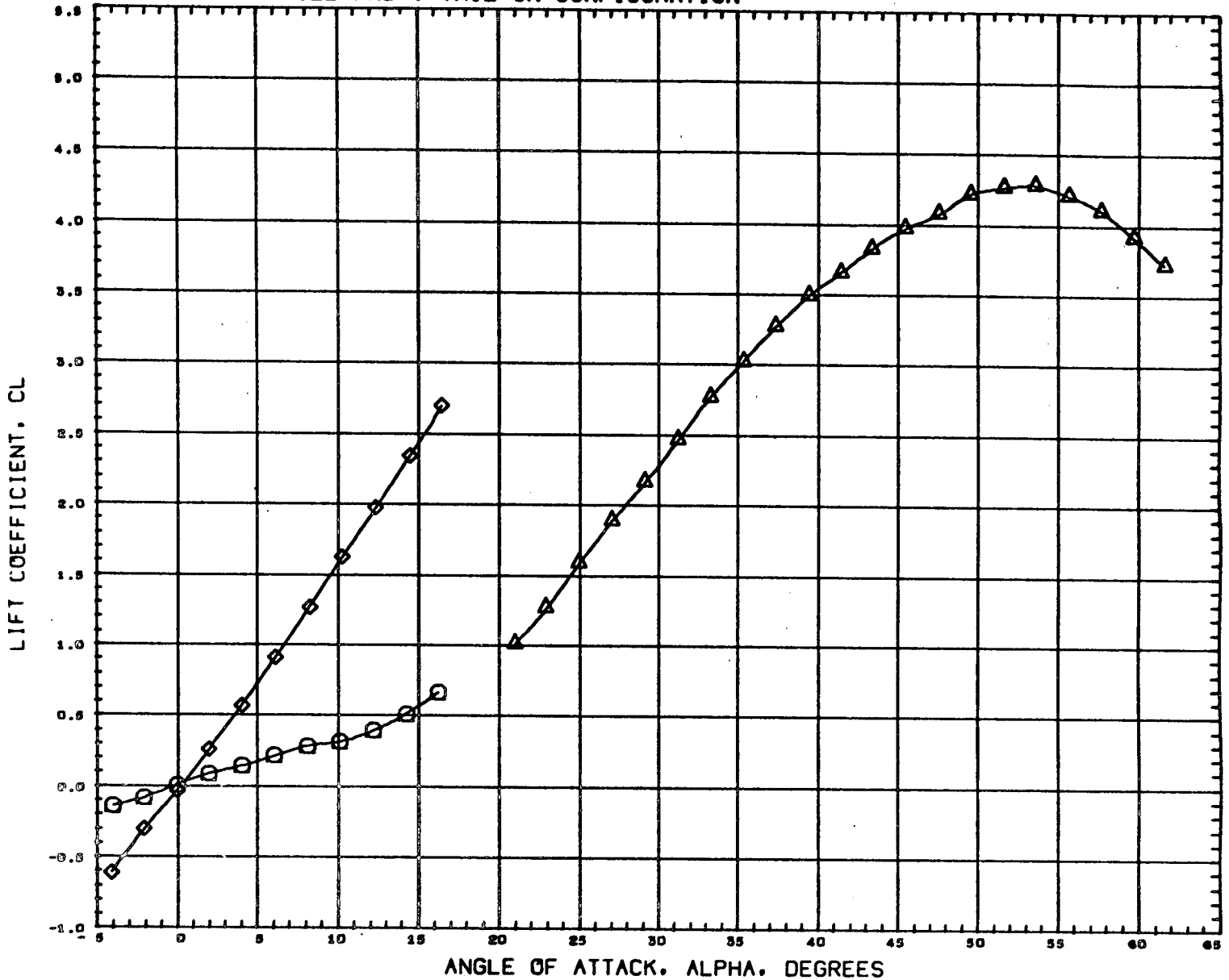
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050115)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 89. IN.
(050025)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 0.2310 INCHES
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(050162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

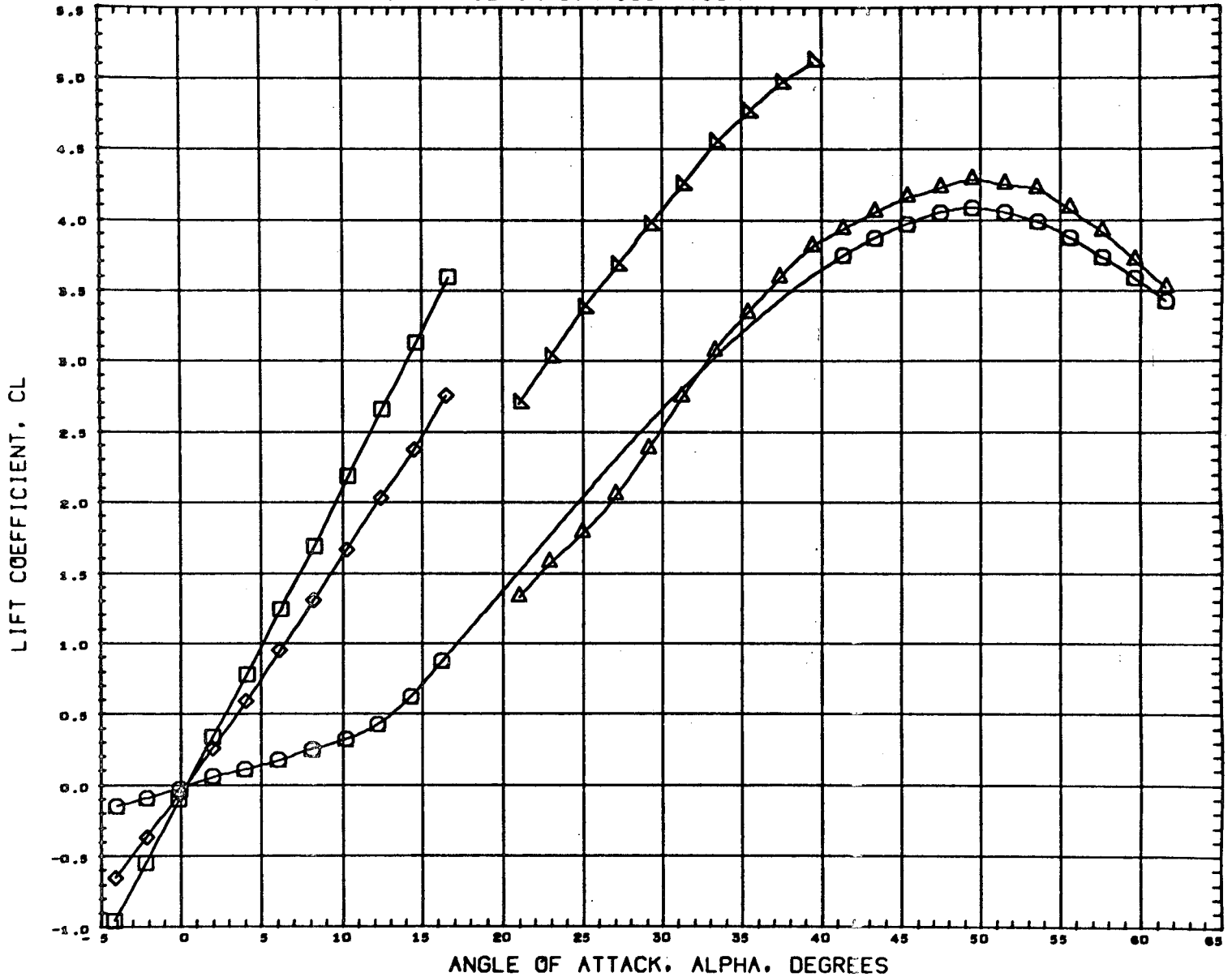
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D90110)	○	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D90029)	△	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D90010)	□	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90050)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D9016Z)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 1.201

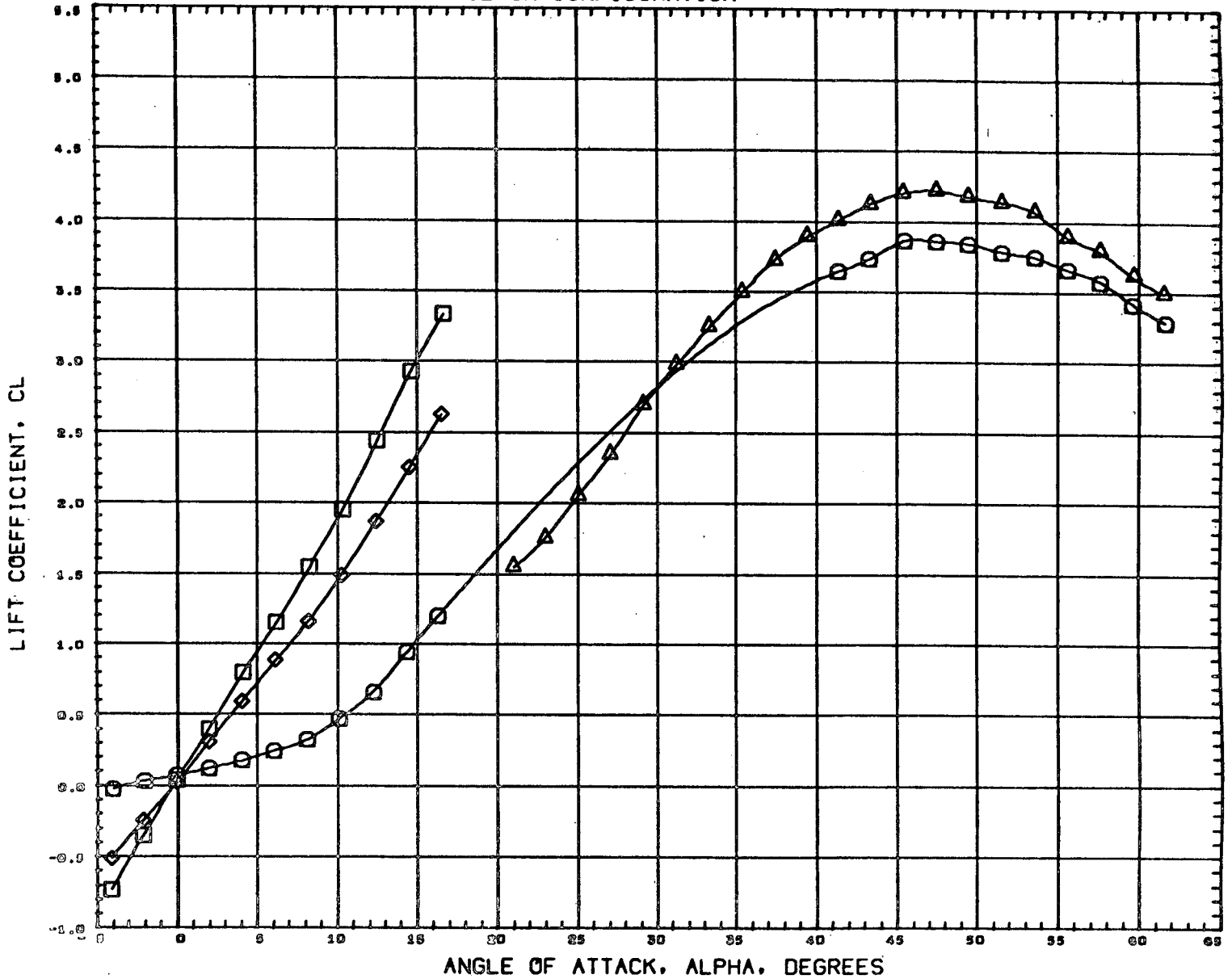
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 80. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	MSFC 512 GD/C .003366 BOOSTER B34R6T12 (INVERTED)	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

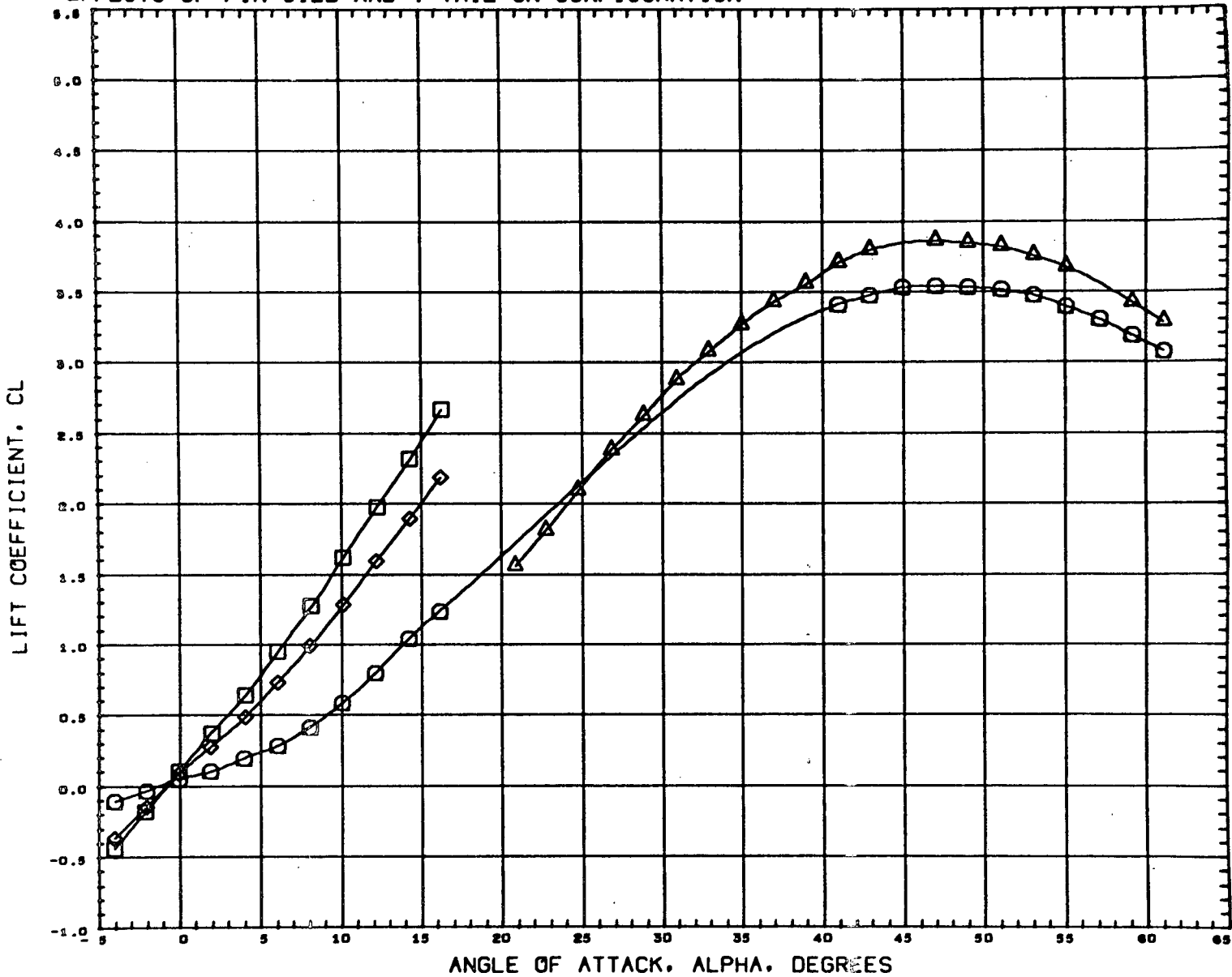
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050113)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9390 56. IN.
(050025)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	M8FC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(050162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

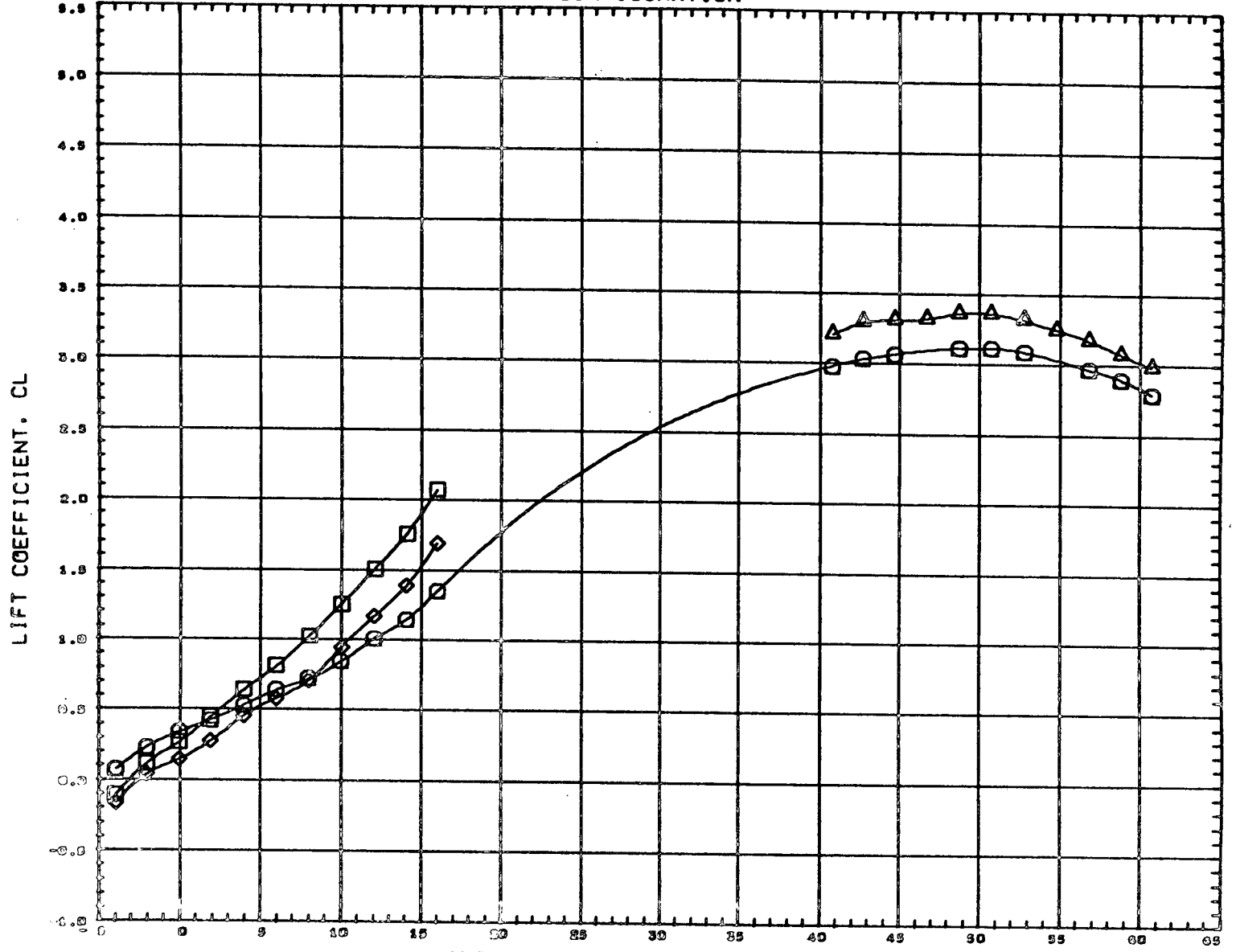
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50113)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 89. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.200	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50030)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.500	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.200	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 2.740

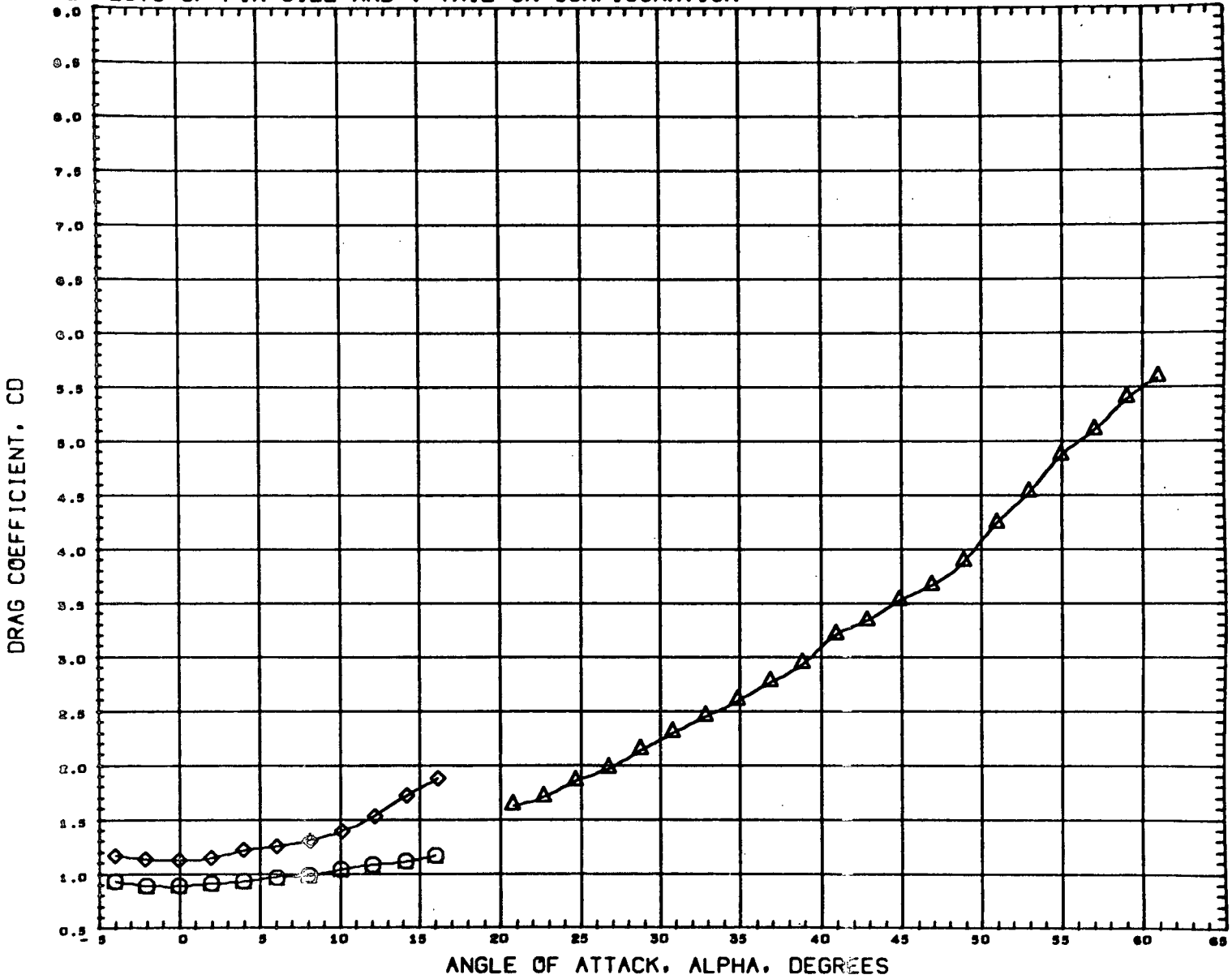
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(030011)	NSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.0350 88. IN.
(030020)	NSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(030010)	NSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(030030)	NSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	XMRF 3.7920 INCHES
(03016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

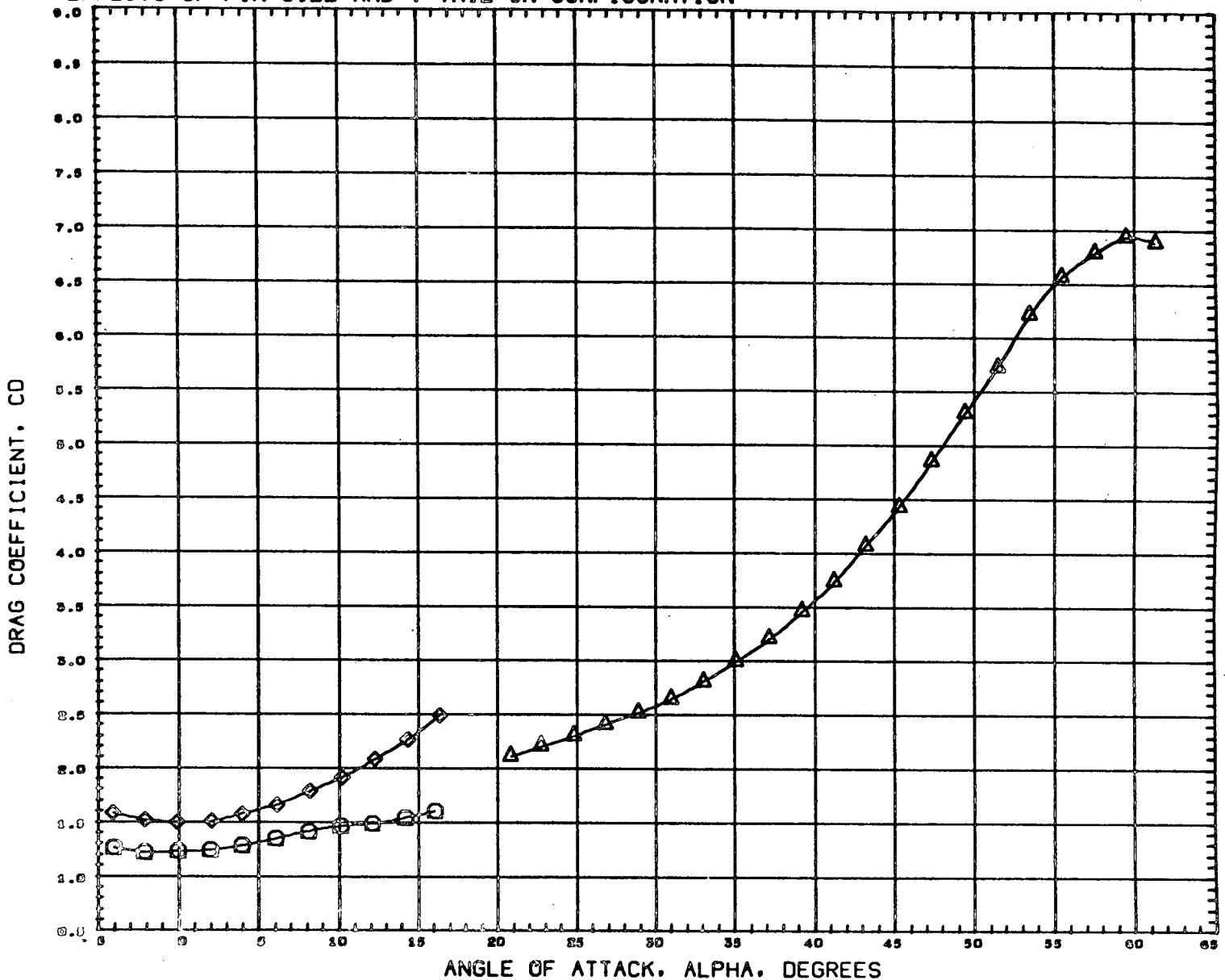
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 SQ. IN.
(D50025)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.603

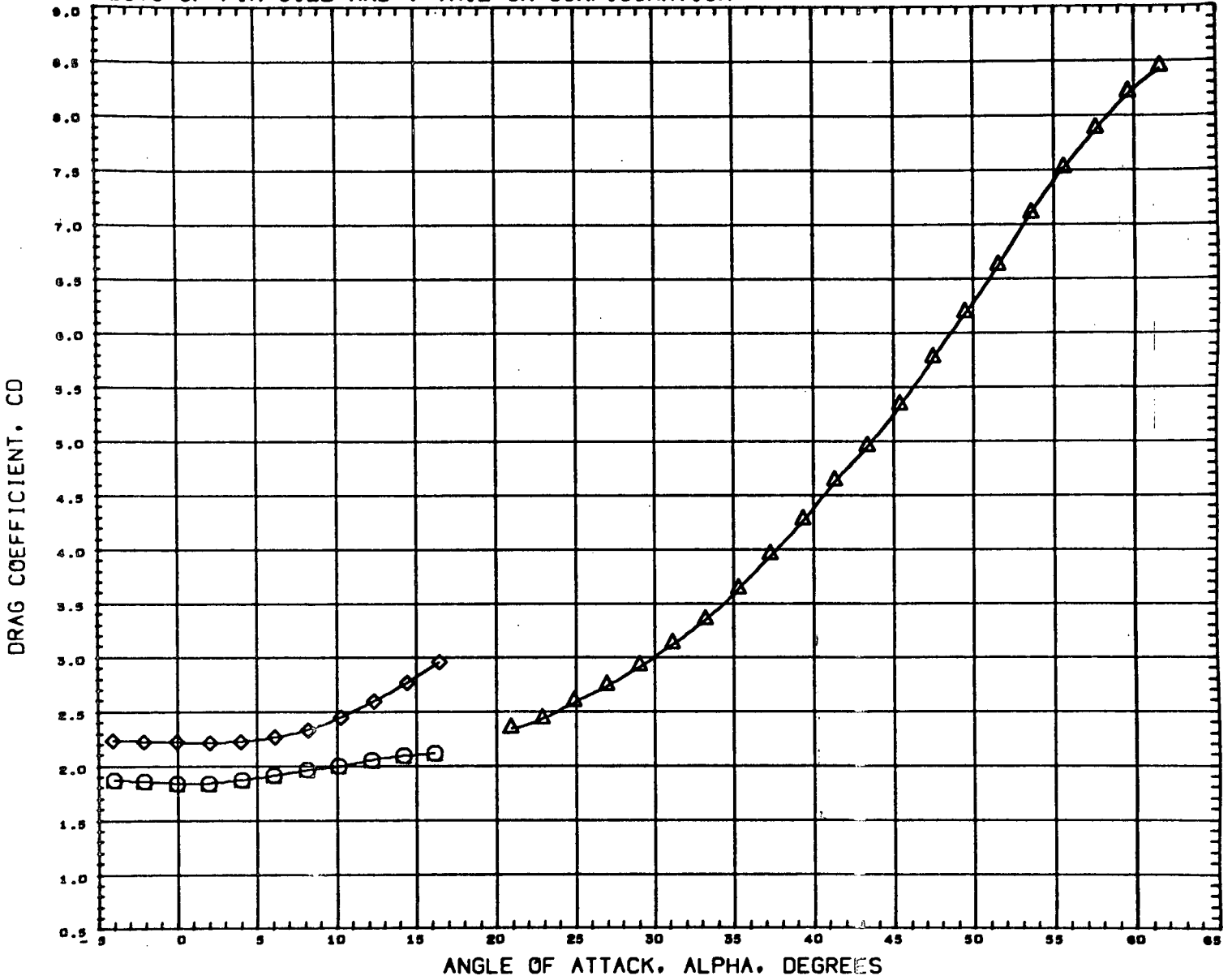
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050119)	MDPC 312 GD/C .003368 BOOSTER B34R6	0.000	45.000			BREF 0.9350 38. IN.
(050020)	MDPC 312 GD/C .003368 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 4.2310 INCHES
(050010)	MDPC 312 GD/C .003368 BOOSTER B34R6T30	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(050162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

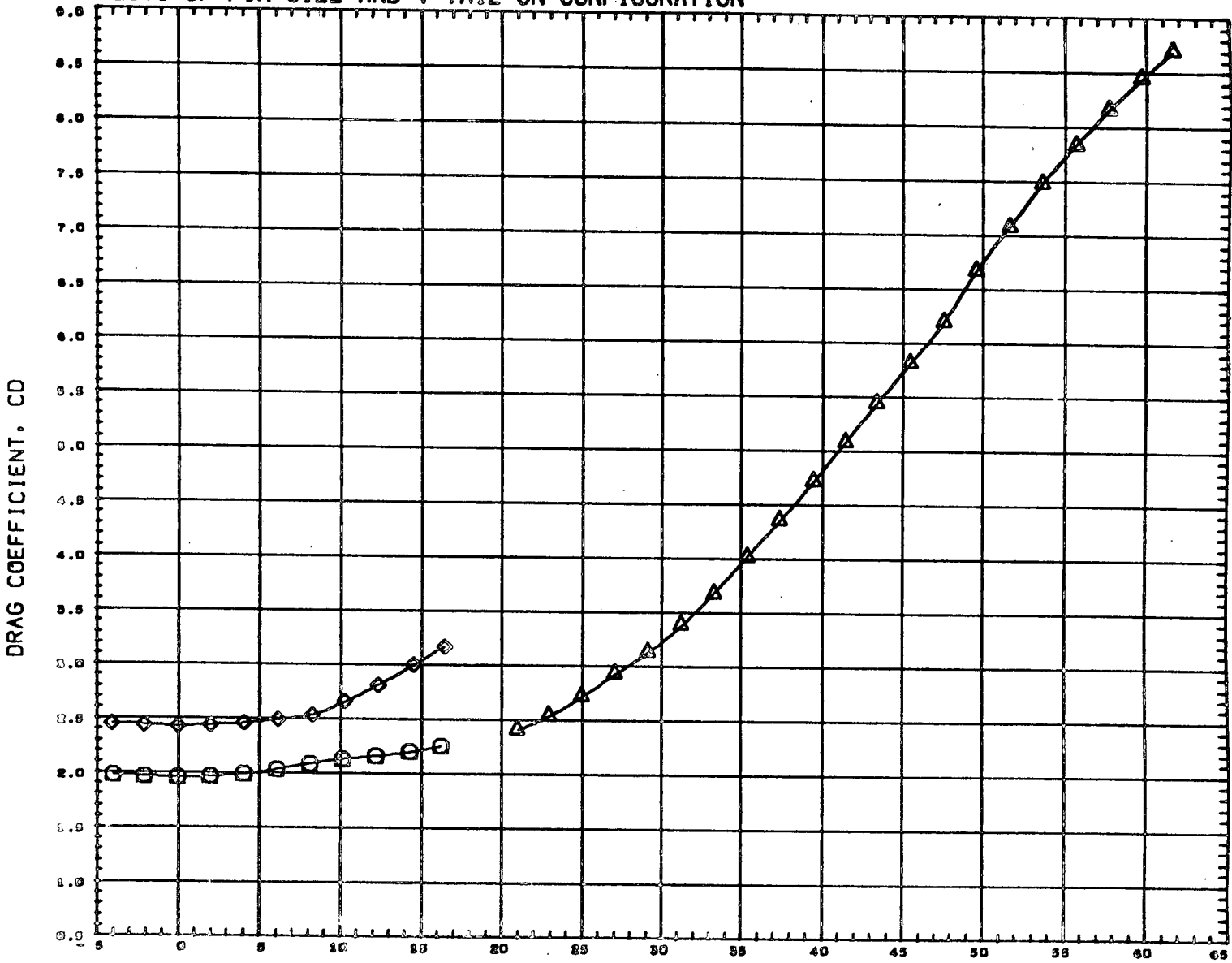
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 89. IN.
(D50028)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION

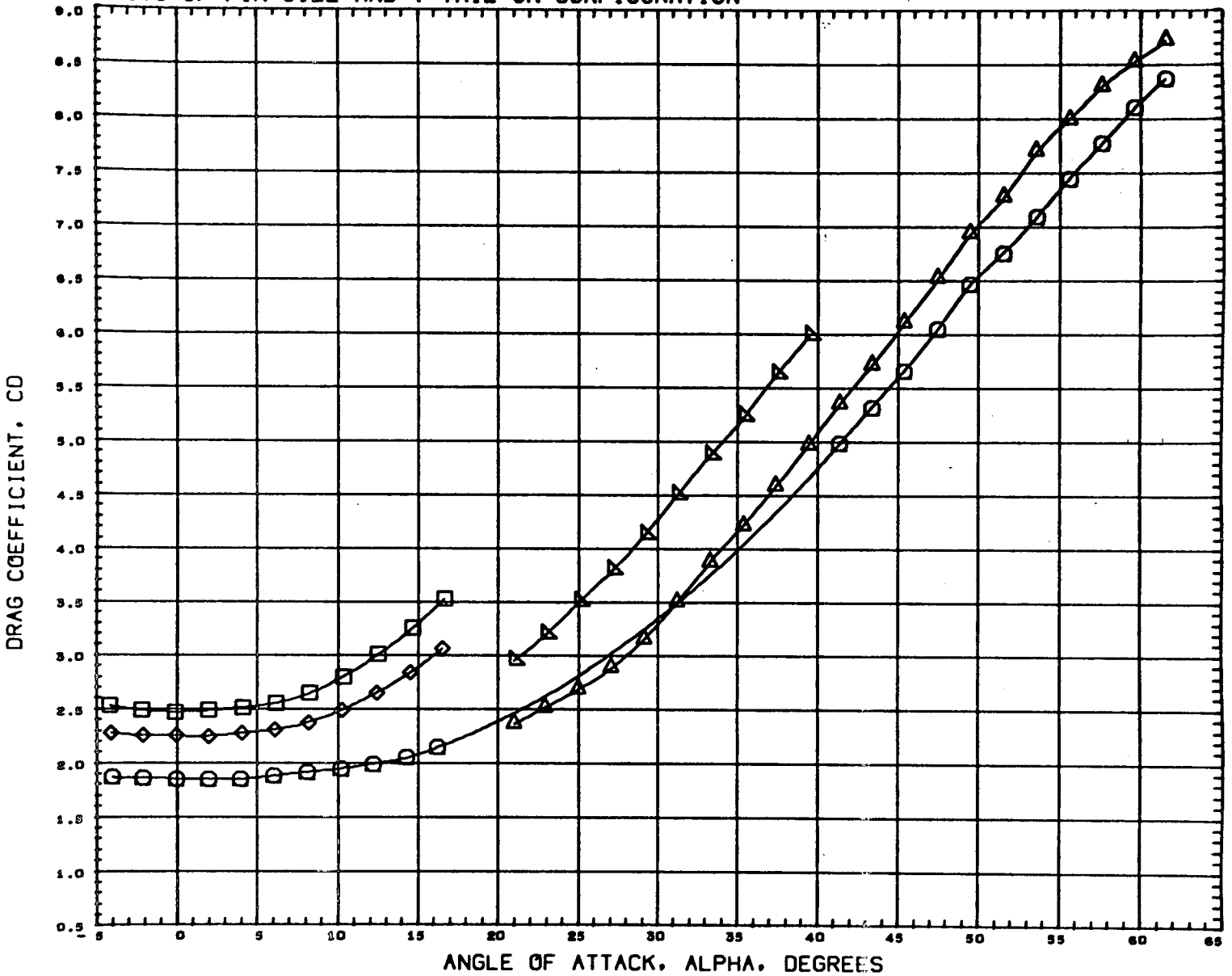


ANGLE OF ATTACK, ALPHA, DEGREES

DATA CRY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050160)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.0350 SQ. IN.
(050060)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 0.2310 INCHES
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(050162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

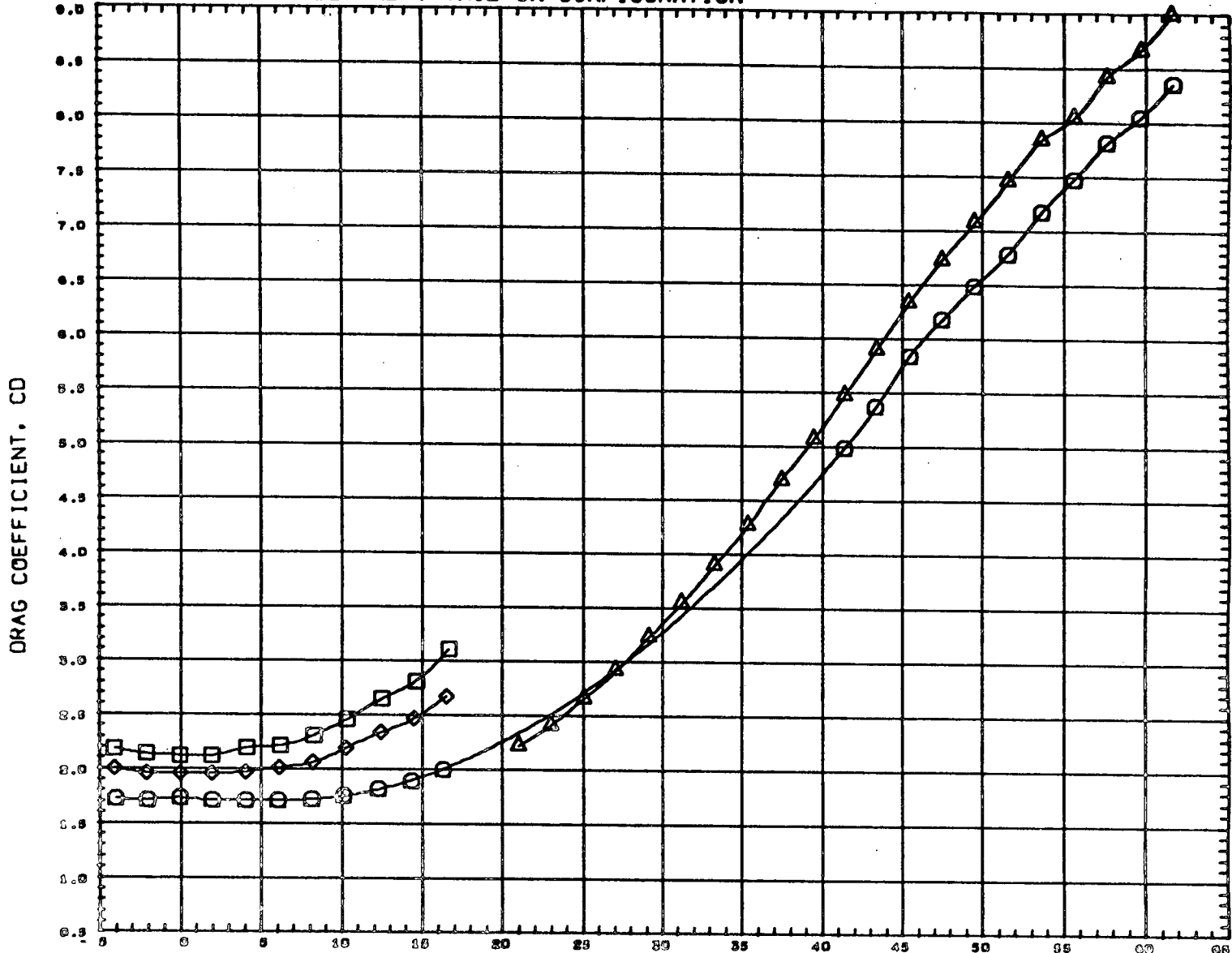
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(D50029)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	M8FC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRF 3.7920 INCHES
(D5016Z)	M8FC 512 GD/C .003366 BOOSTER B34R6T12 (INVERTED)	0.000	45.000	0.000	0.000	YMRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

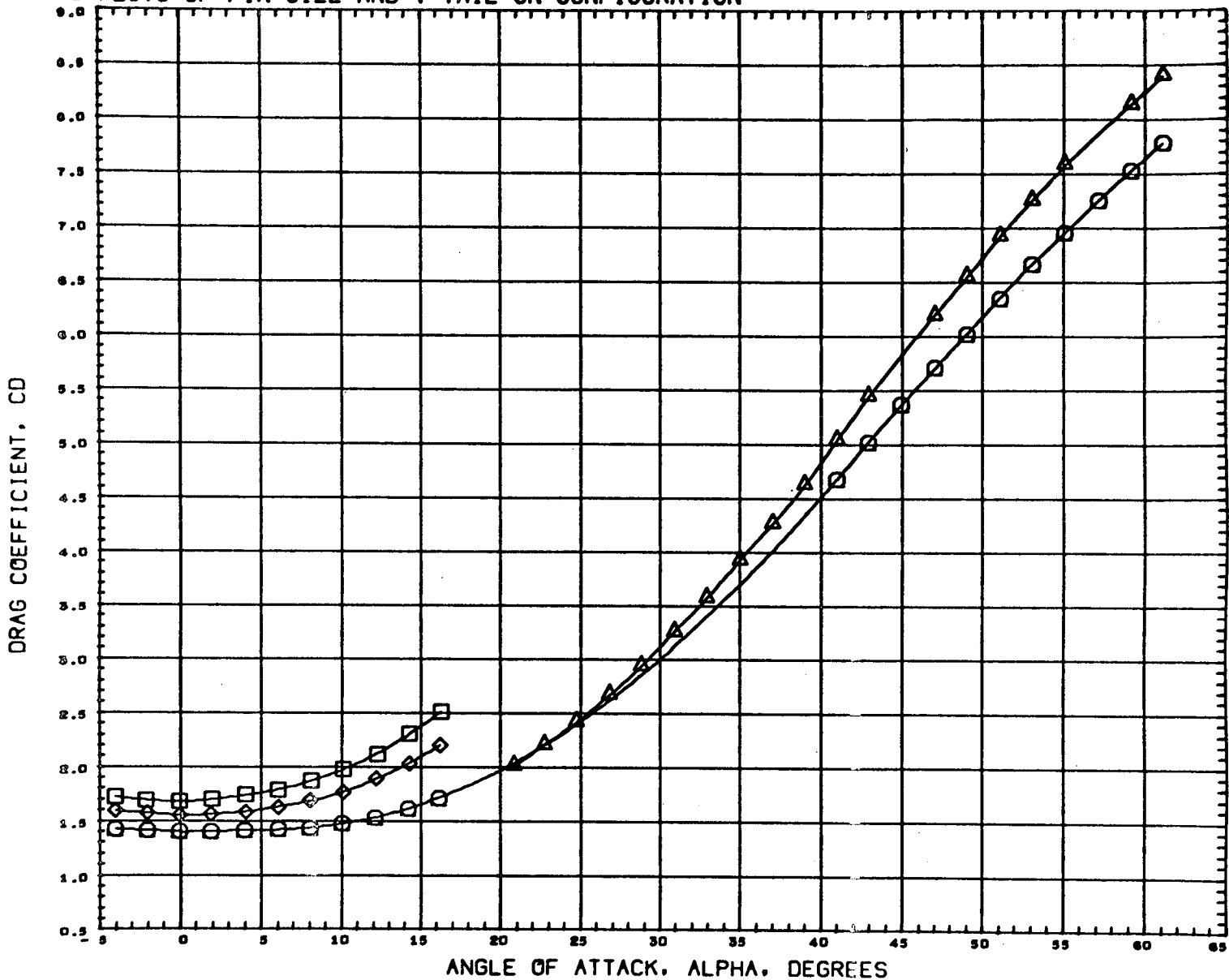
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(090010)	NOFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(090020)	NOFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	NOFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	NOFC 512 GD/C .003366 BOOSTER B34R6T19	0.000	0.000	0.000	0.000	YMRP 3.7920 INCHES
(05016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

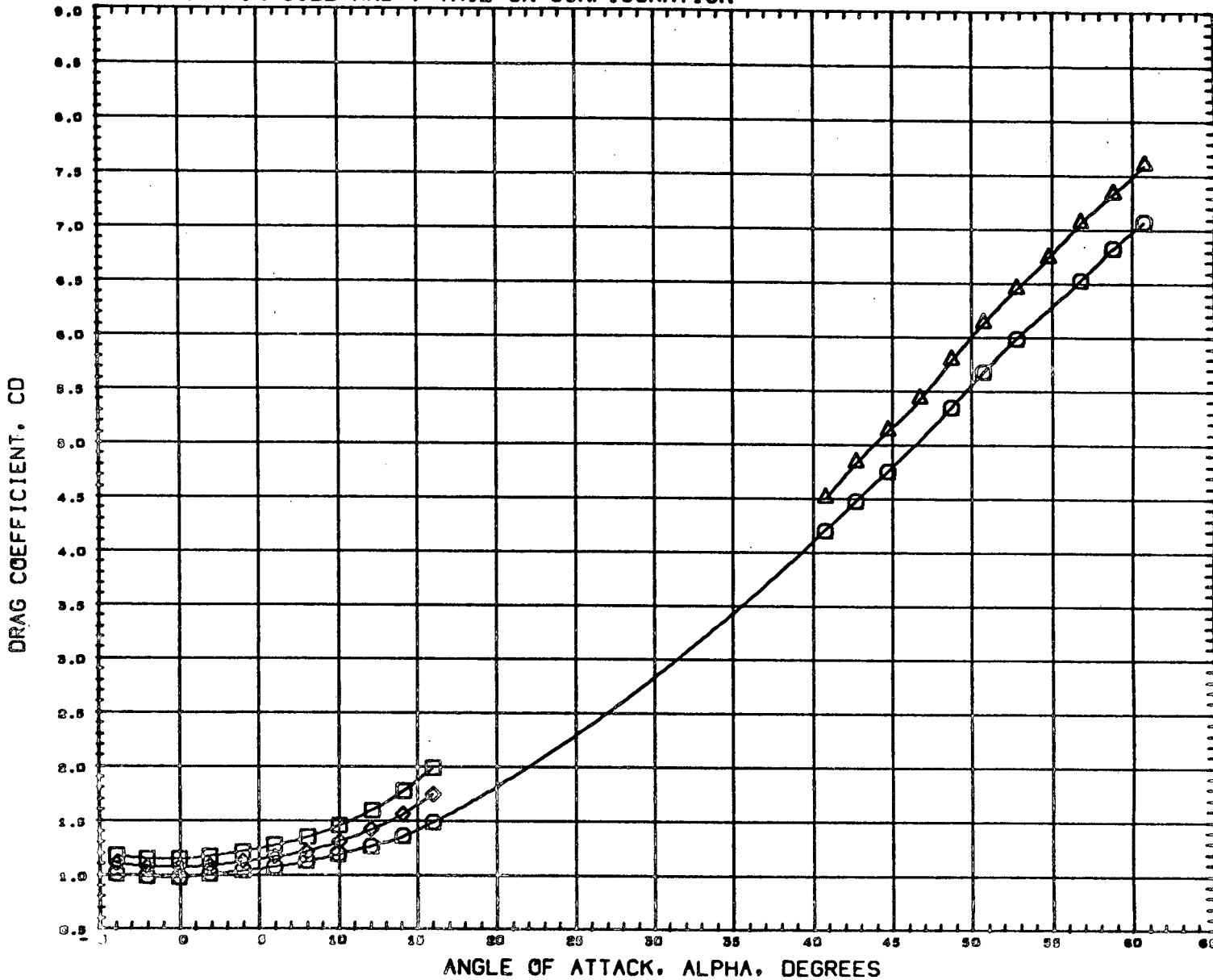
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PH100	LFLAP	RFLAP	REFERENCE INFORMATION	
(D50118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF	0.9350 SQ. IN.
(D50025)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50050)	M8FC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 2.740

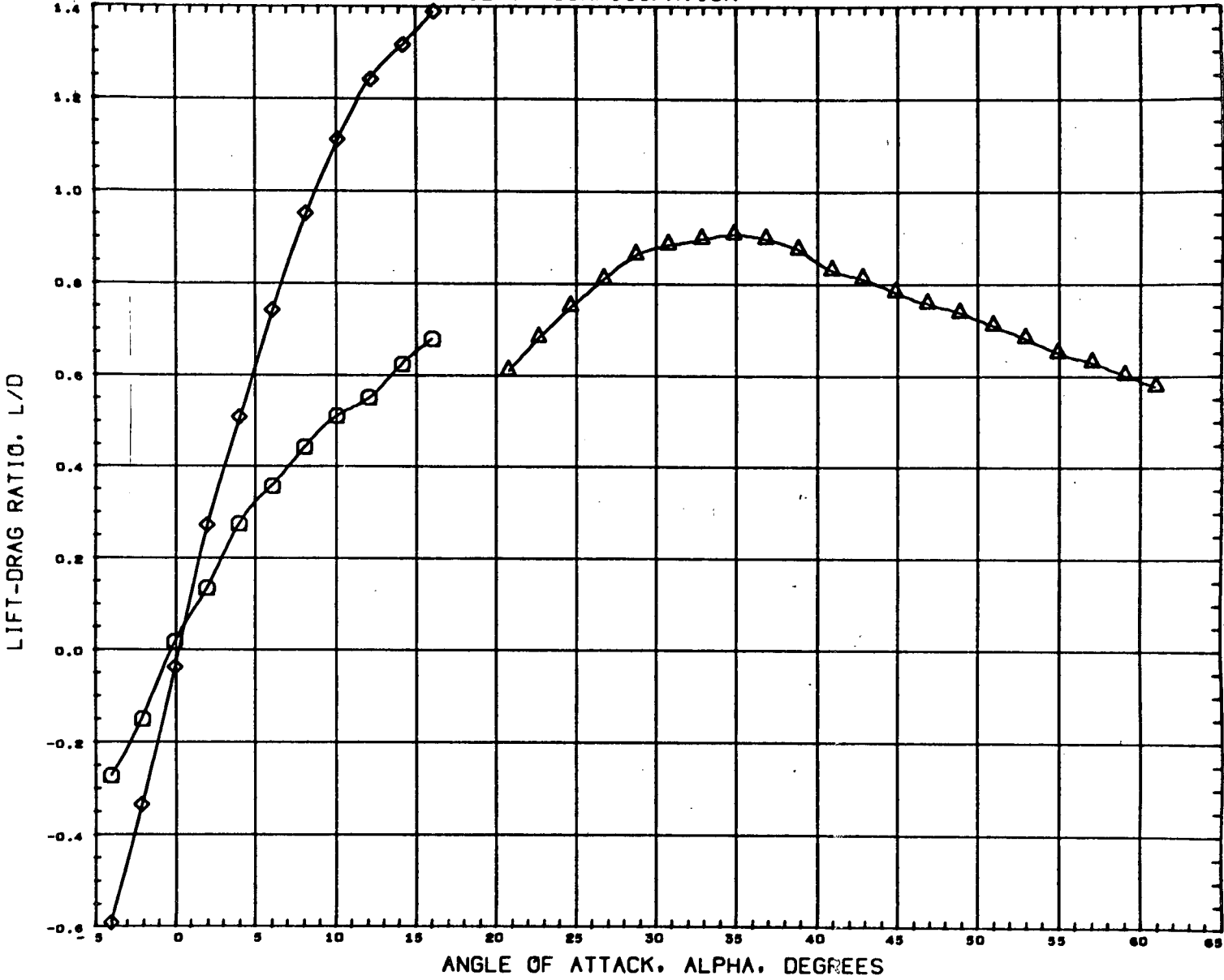
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET NUMBER	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9390 86. IN.
(050028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050019)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050085)	MSFC 512 GD/C .003366 BOOSTER B34R6T19	0.000	0.000	0.000	0.000	XHRP 3.7920 INCHES
(050182)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

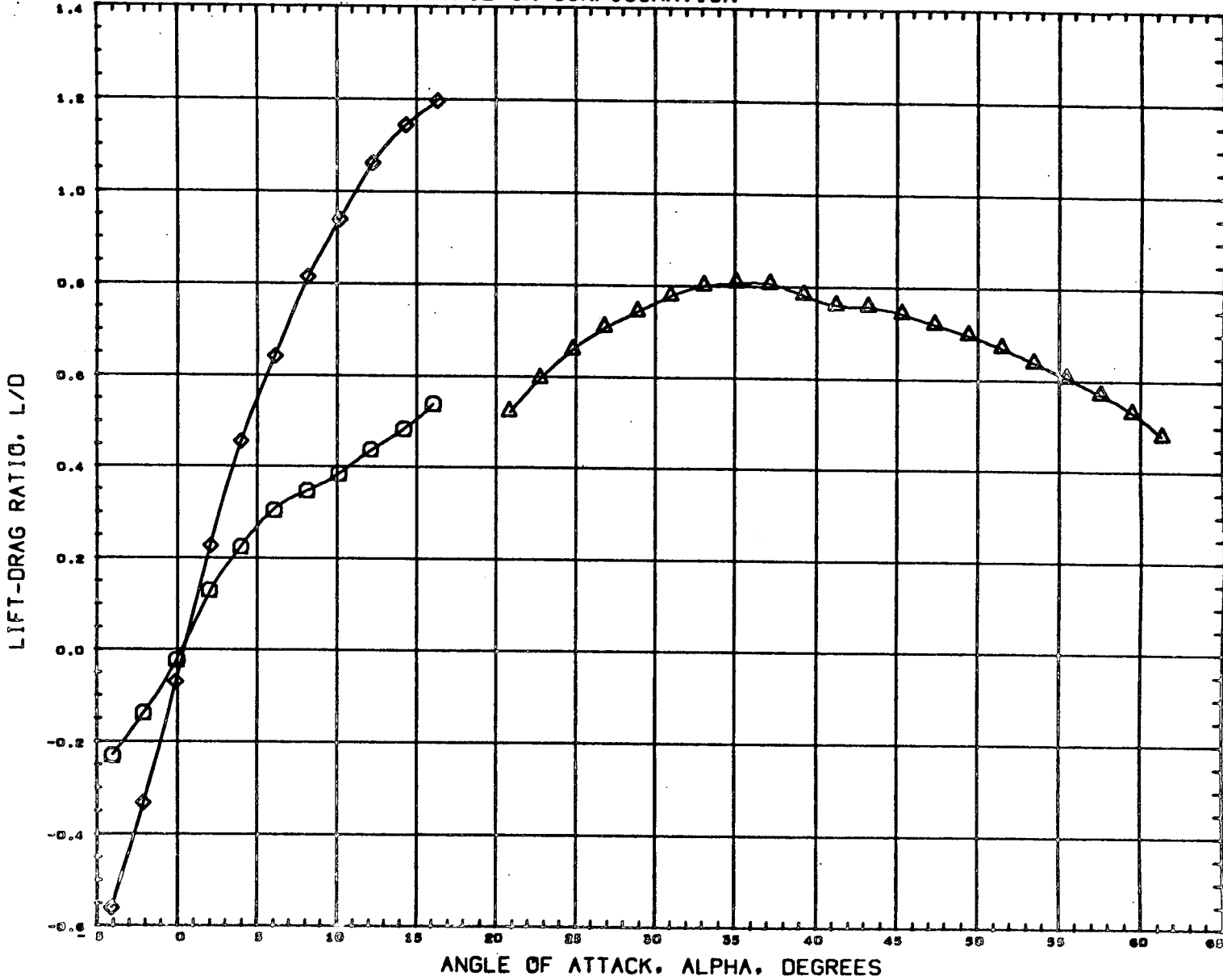
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(050118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF	0.9350 SQ. IN.
(050025)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(050010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(050050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XHRP	3.7920 INCHES
(05016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YHRP	0.0000 INCHES
						ZHRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.603

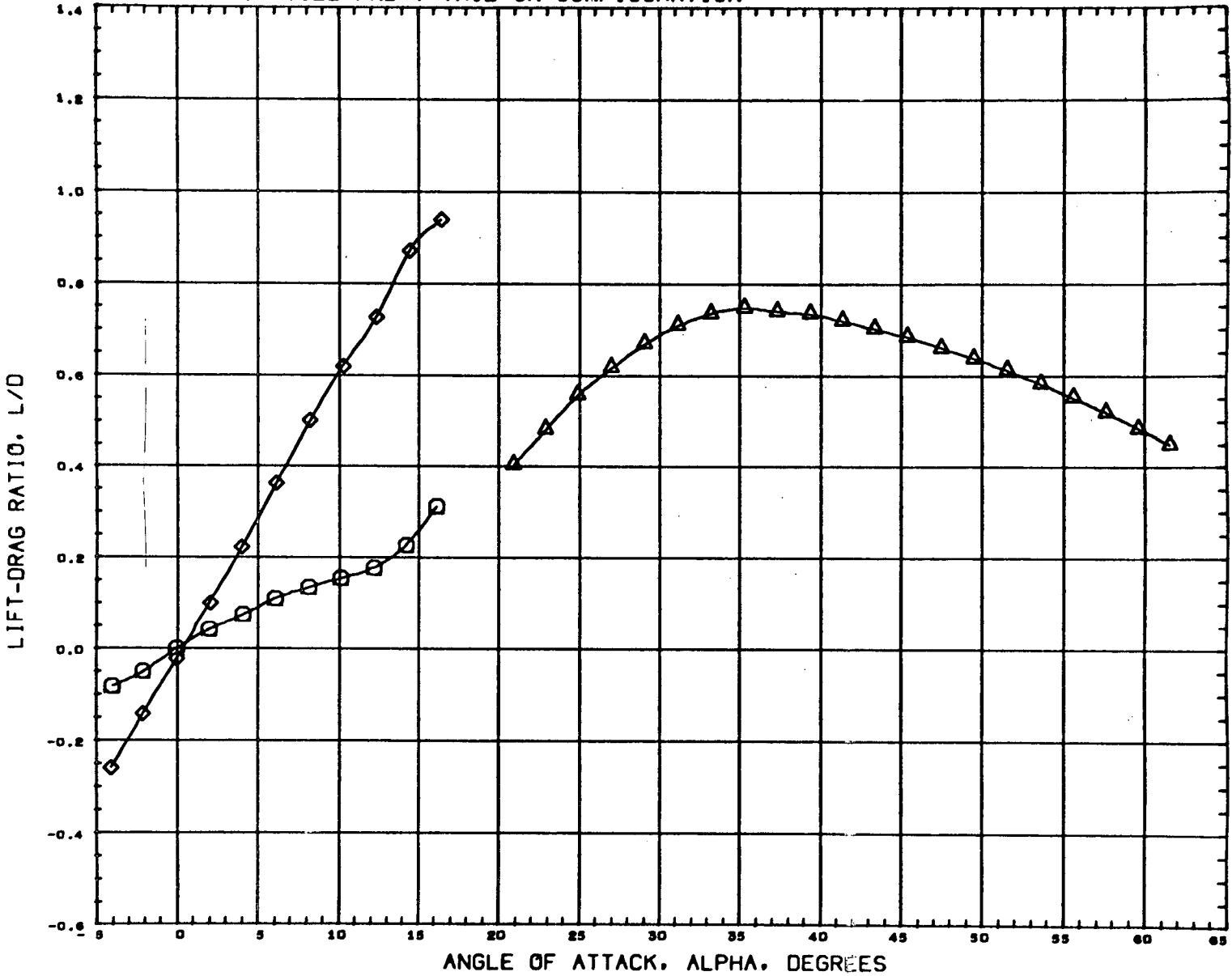
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA ID	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050010)	◇	MSFC 512 60/C .003366 BOOSTER B54R6	0.000	45.000	0.000	0.000	SREF 0.9350 90.IN.
(050020)	□	MSFC 512 60/C .003366 BOOSTER B54R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050030)	△	MSFC 512 60/C .003366 BOOSTER B54R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(050162)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 0.900

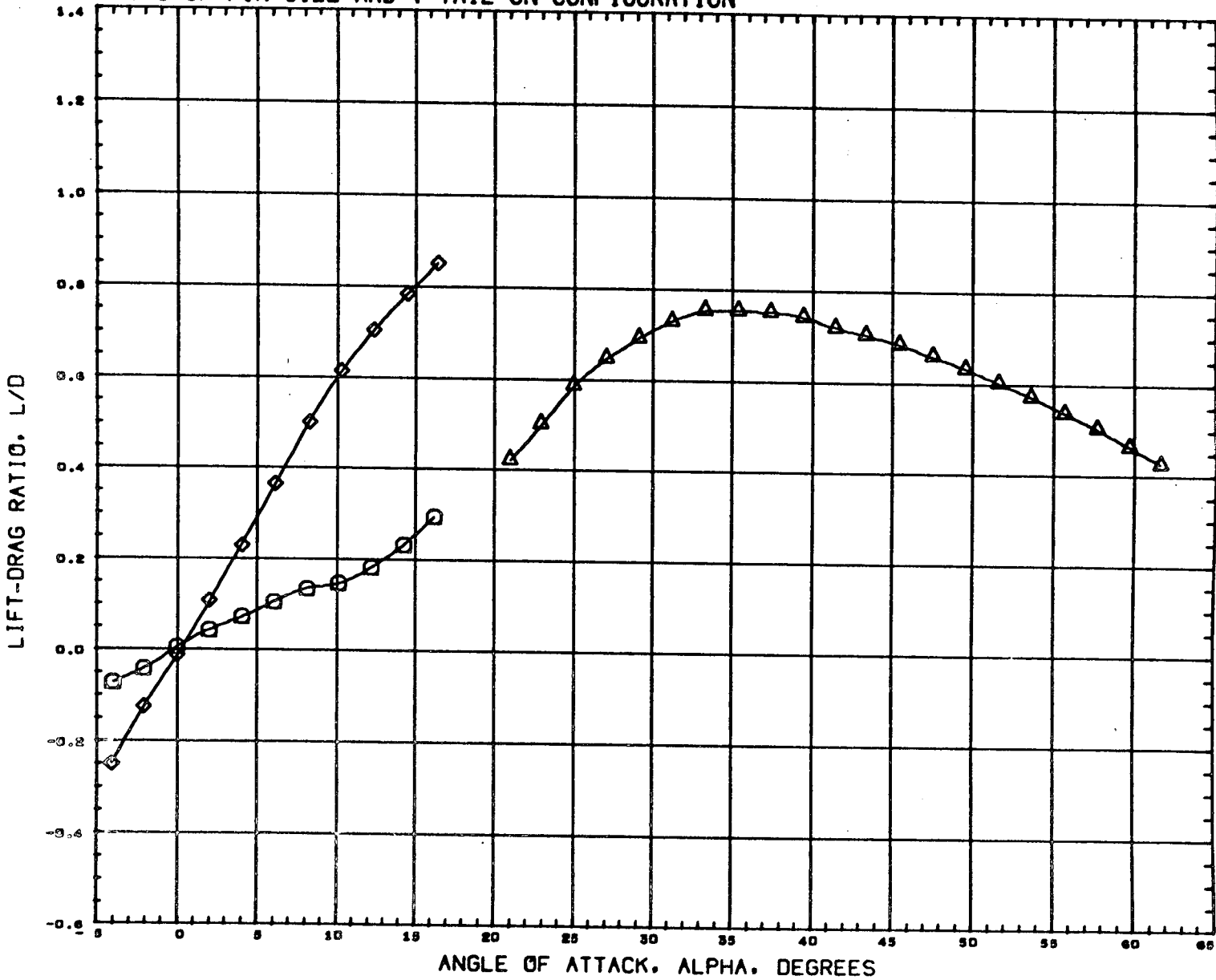
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

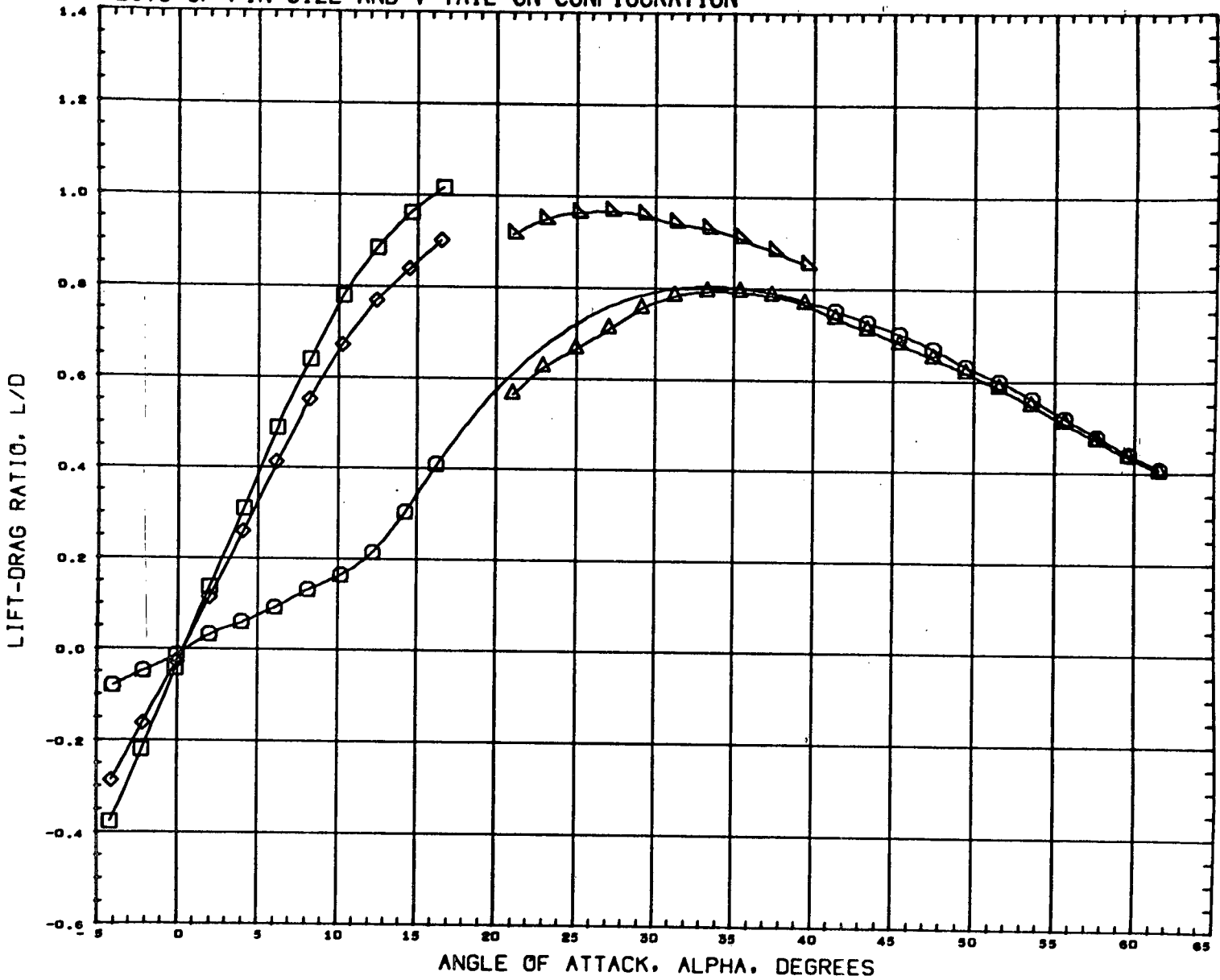
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80.IN.
(050020)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(05016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

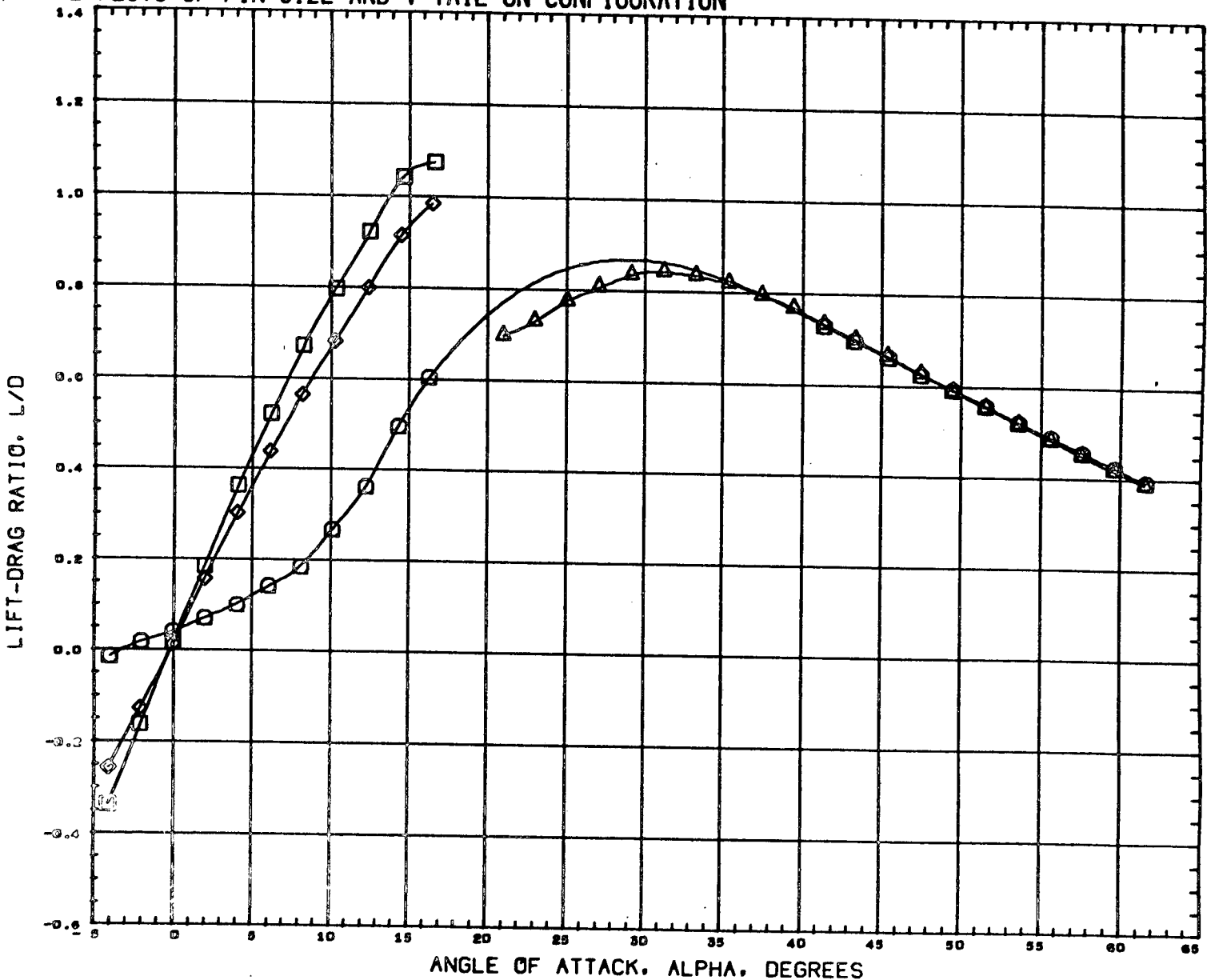
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50119)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 80.1N.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XHRP 3.7920 INCHES
(D5016Z)	MSFC 512 GD/C .003366 BOOSTER B34R6T12 (INVERTED)	0.000	45.000	0.000	0.000	YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0054

MACH 1.458

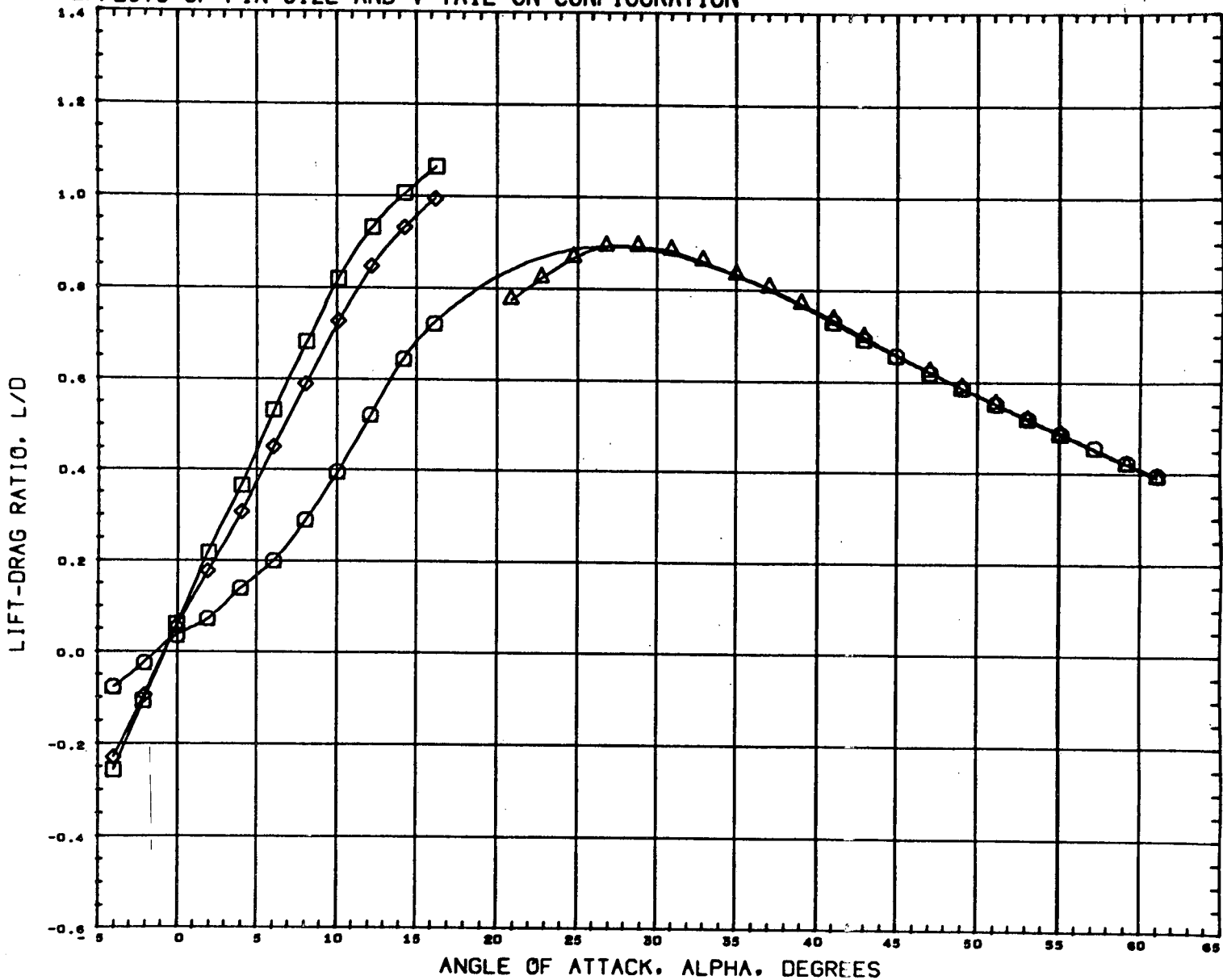
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D90131)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50020)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D90010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XHRP 3.7920 INCHES
(D9016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

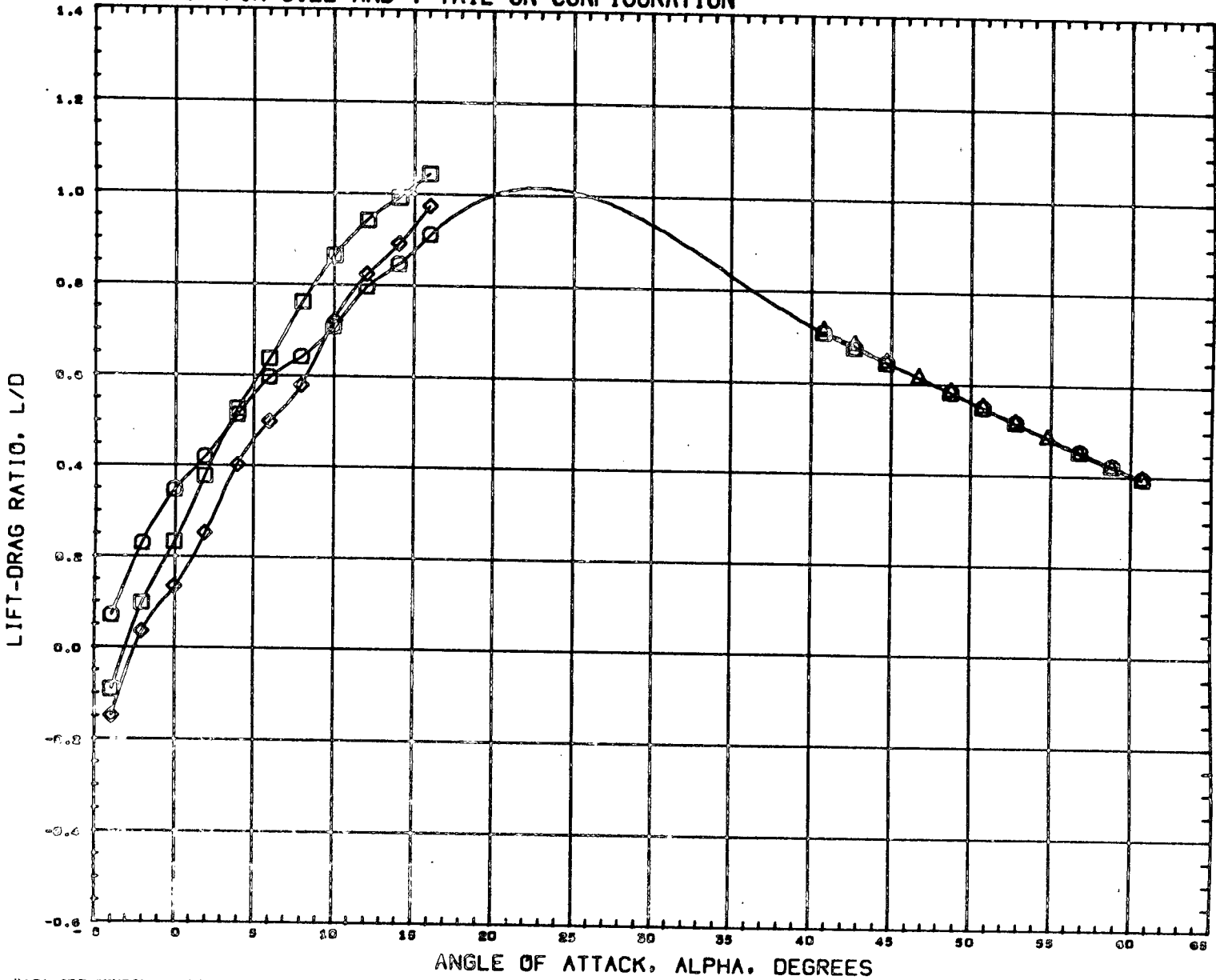
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50115)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 30 IN.
(D50025)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

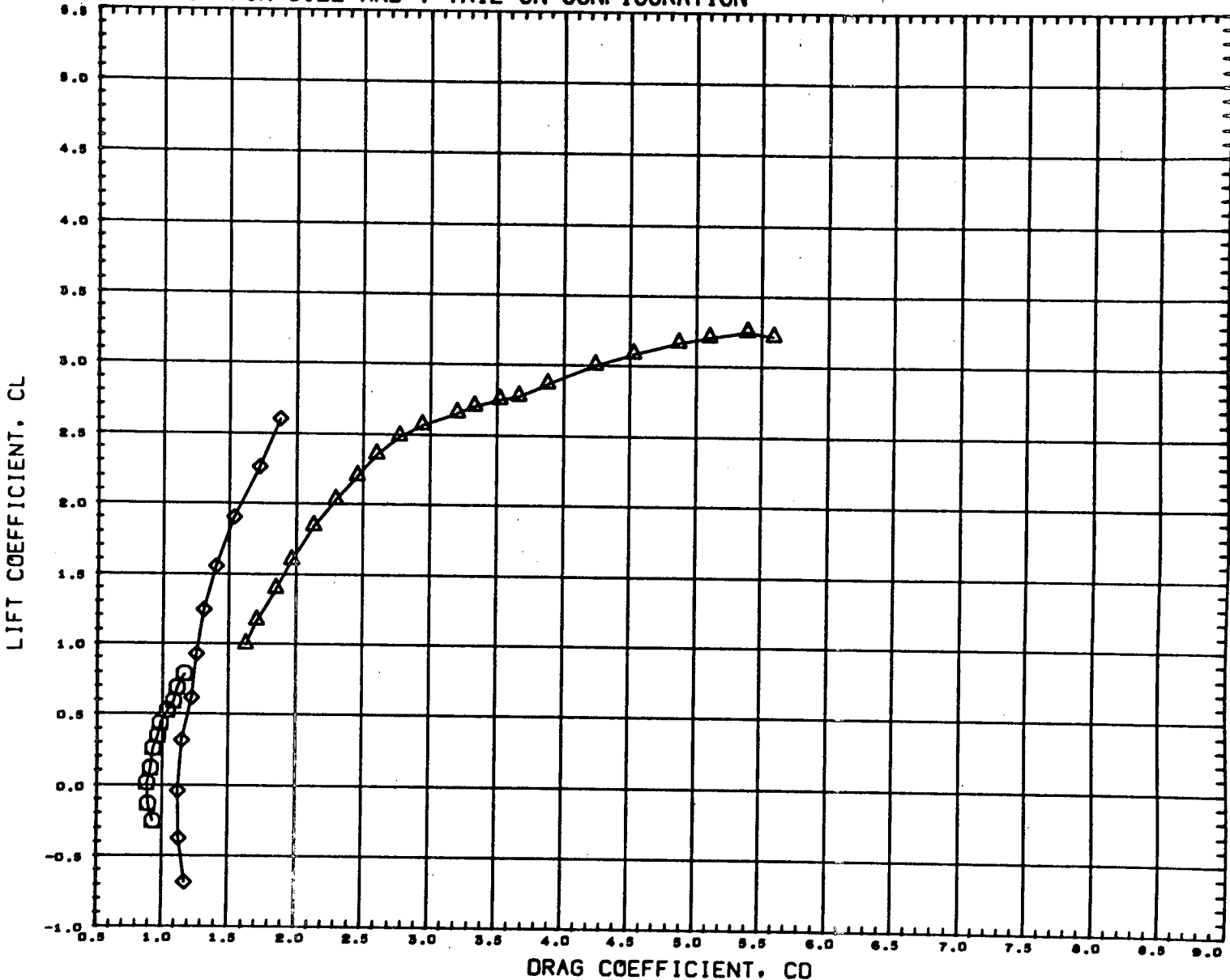
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(09011C)	○	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 89. IN.
(090020)	◇	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(090010)	△	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(090060)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(09016Z)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
							ZMRP	0.0000 INCHES
							SCALE	0.0034

NACH 4.959

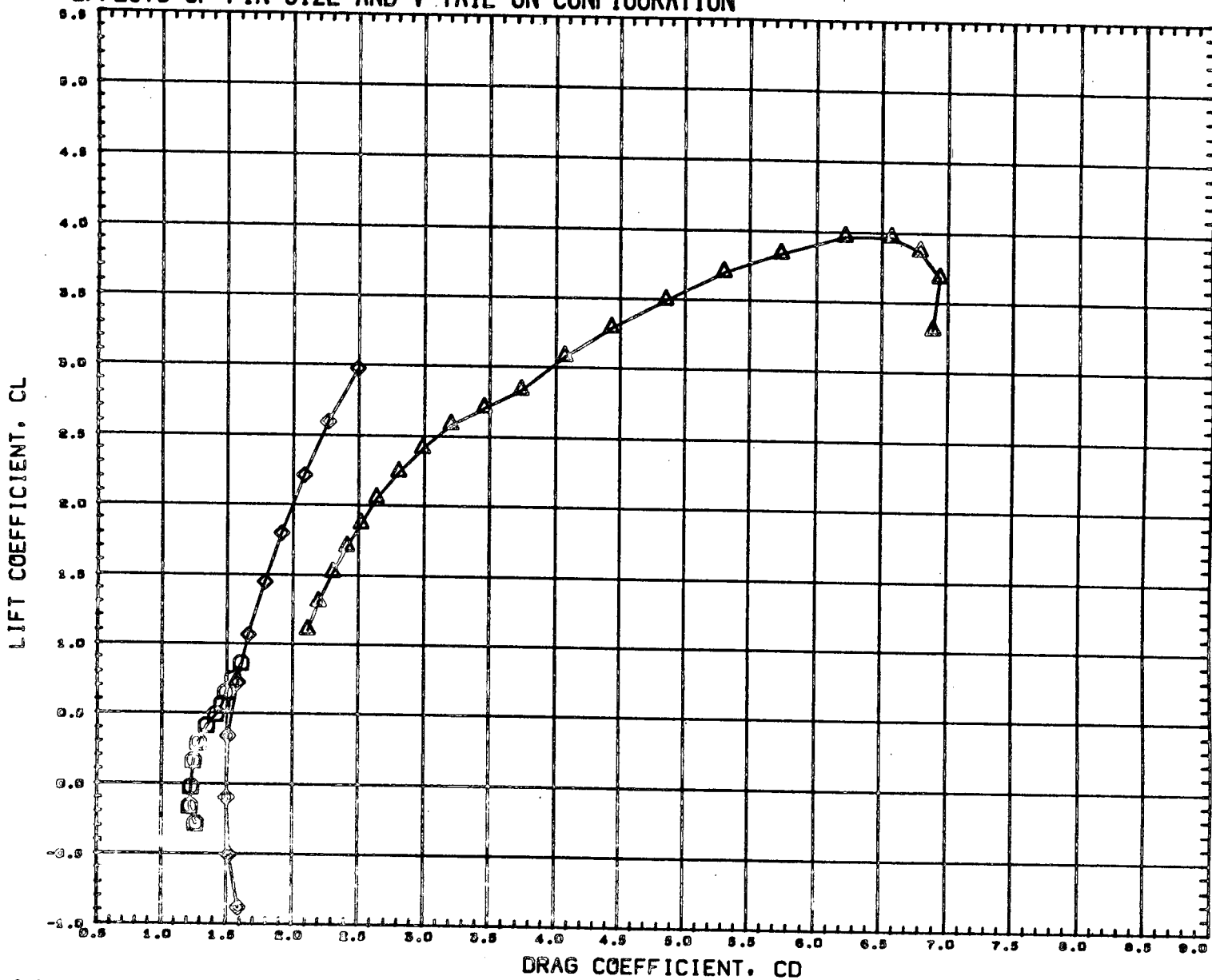
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 30. IN.
(D50028)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

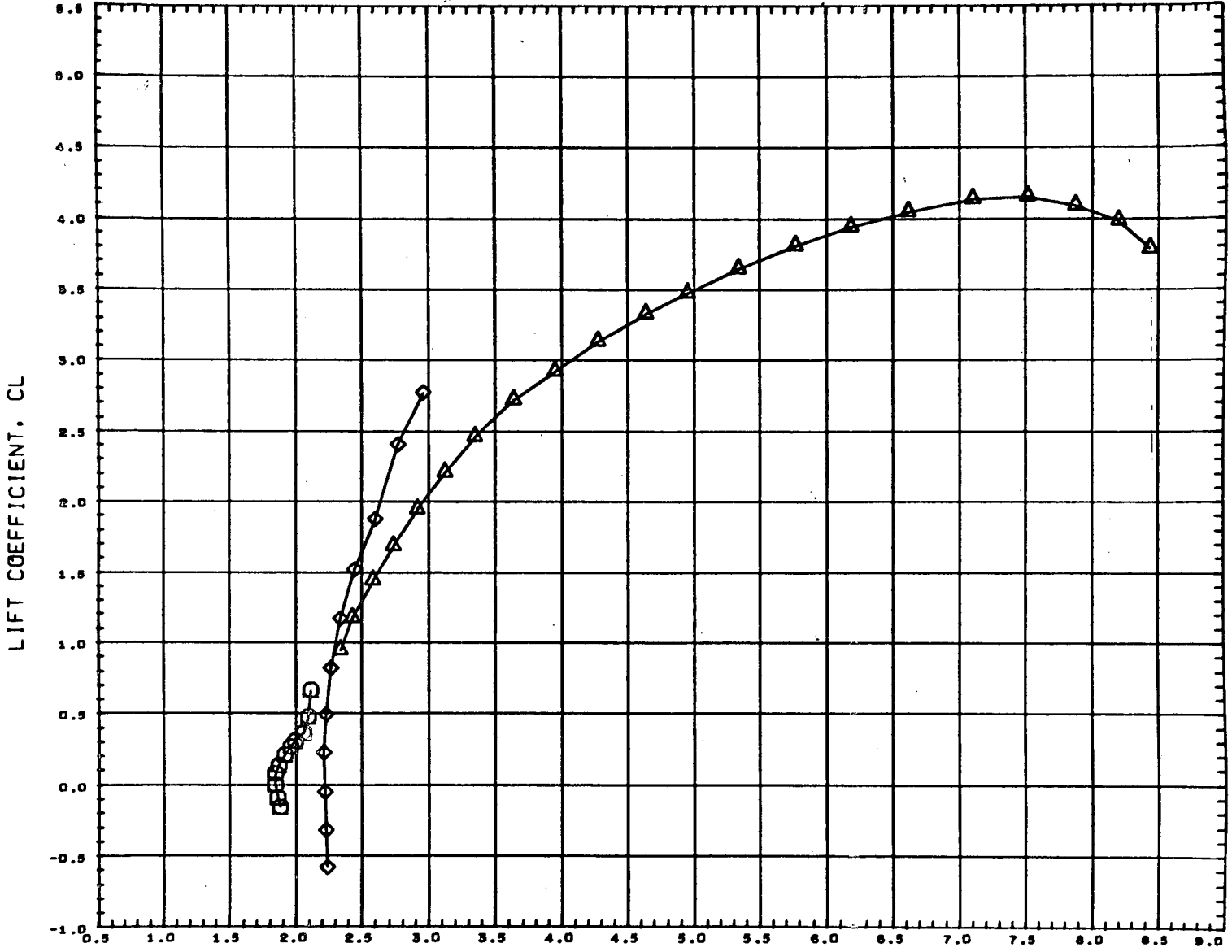
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIND	LFLAP	RFLAP	REFERENCE INFORMATION
(080110)	MSFC 812 GD/C .003368 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(080080)	MSFC 812 GD/C .003368 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(080010)	MSFC 812 GD/C .003368 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0610 INCHES
(080050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(080162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION

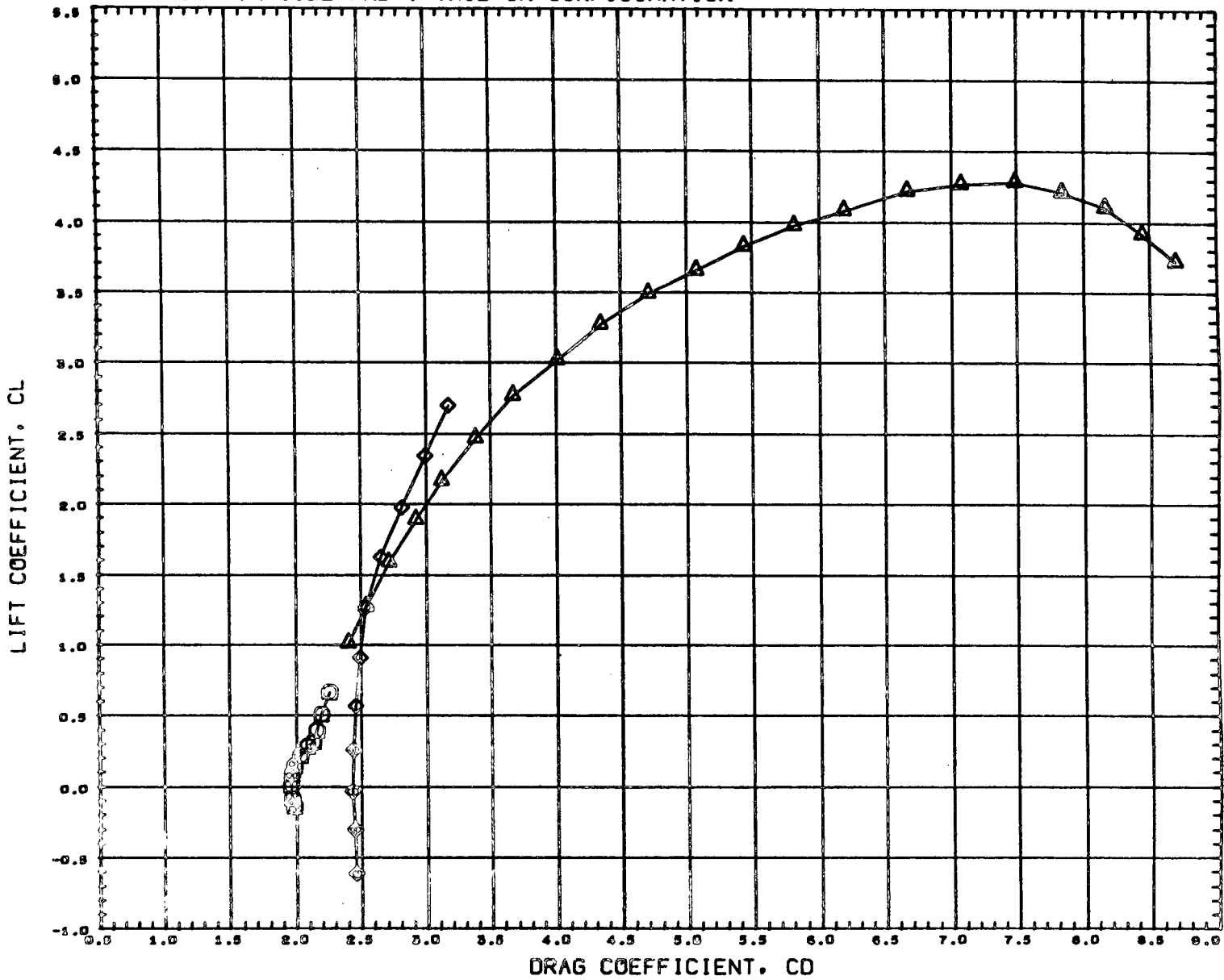


DRAG COEFFICIENT, CD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50113)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

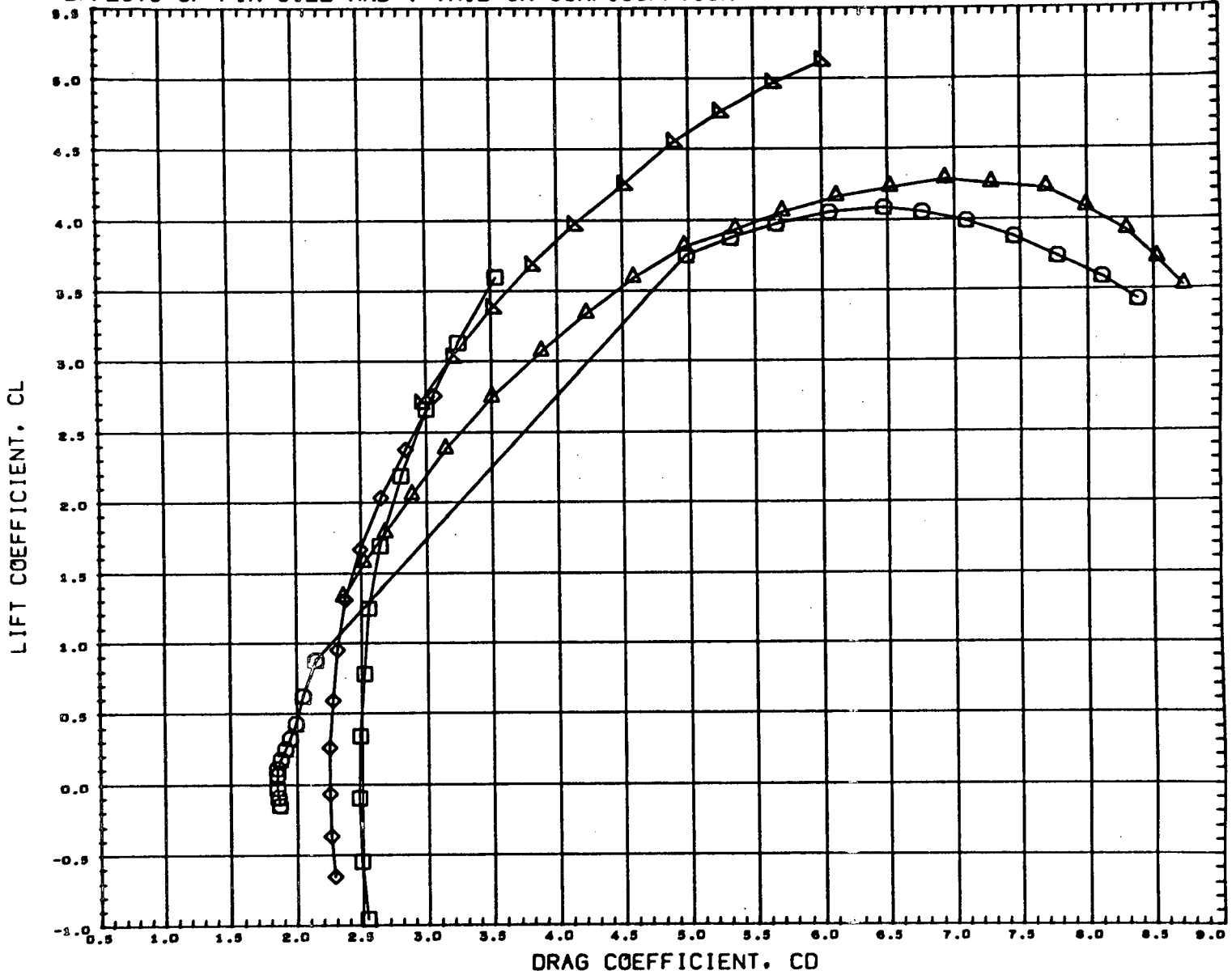
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(090110)	MSFC 512 GD/C .003368 BOOSTER BS4R6	0.000	45.000	0.000	0.000	SREF 0.9390 SQ. IN.
(090020)	MSFC 512 GD/C .003368 BOOSTER BS4R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(090010)	MSFC 512 GD/C .003368 BOOSTER BS4R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(090050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(090162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

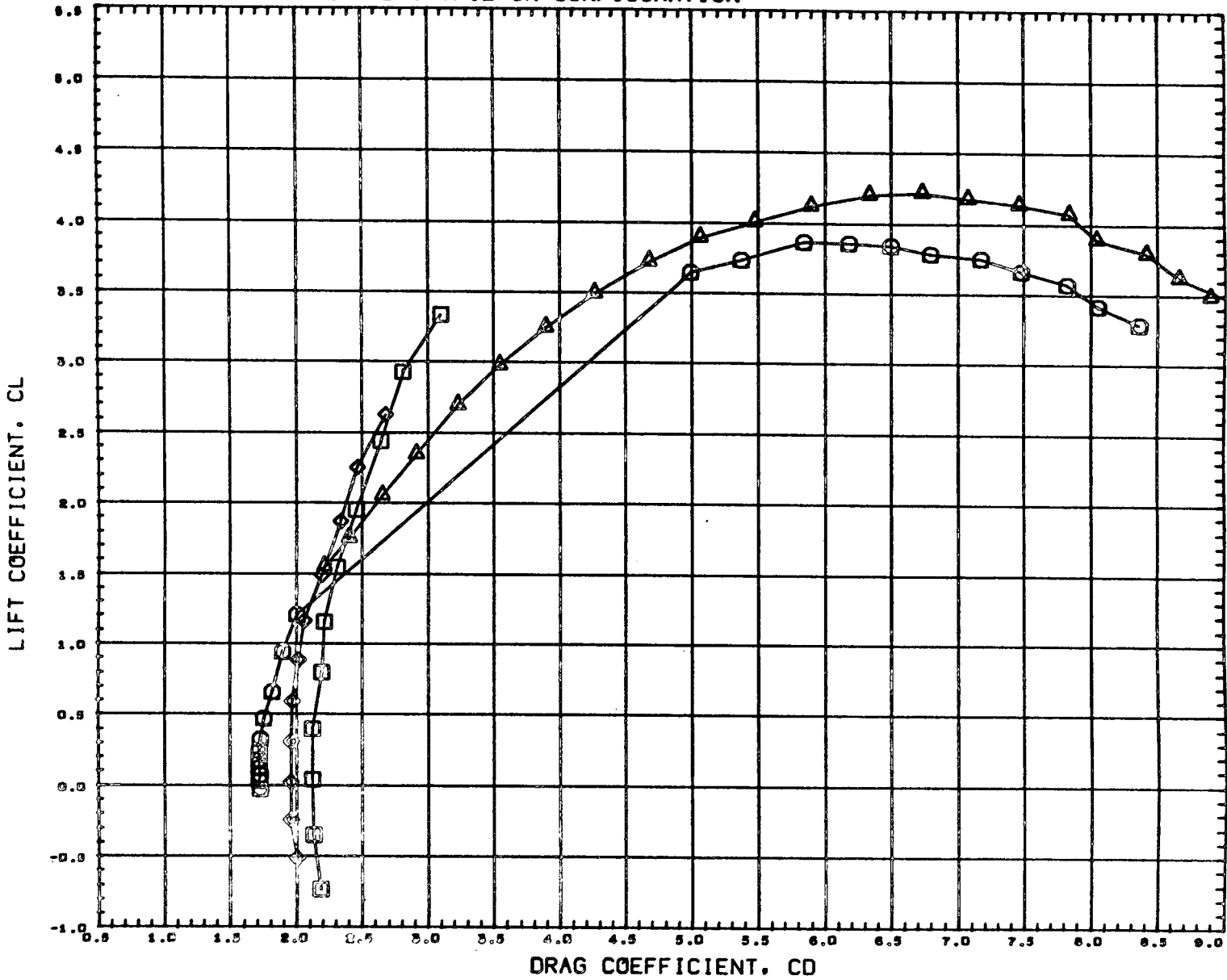
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(050028)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	M8FC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(05016Z)	M8FC 512 GD/C .003366 BOOSTER B34R6T12 (INVERTED)	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

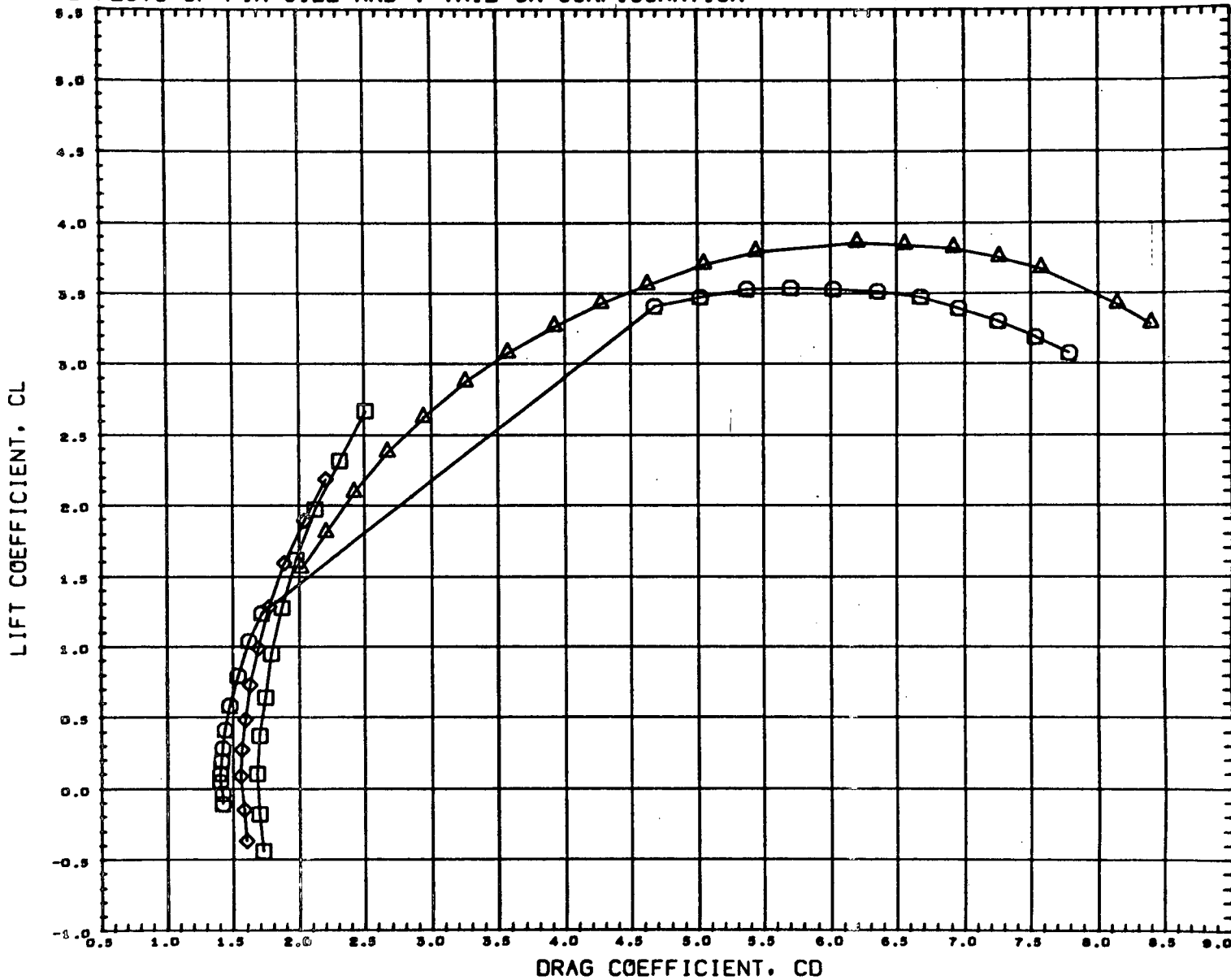
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMCO	LFLAP	RFLAP	REFERENCE INFORMATION
(050100)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(050020)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	M8FC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XHRP 3.7920 INCHES
(05016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

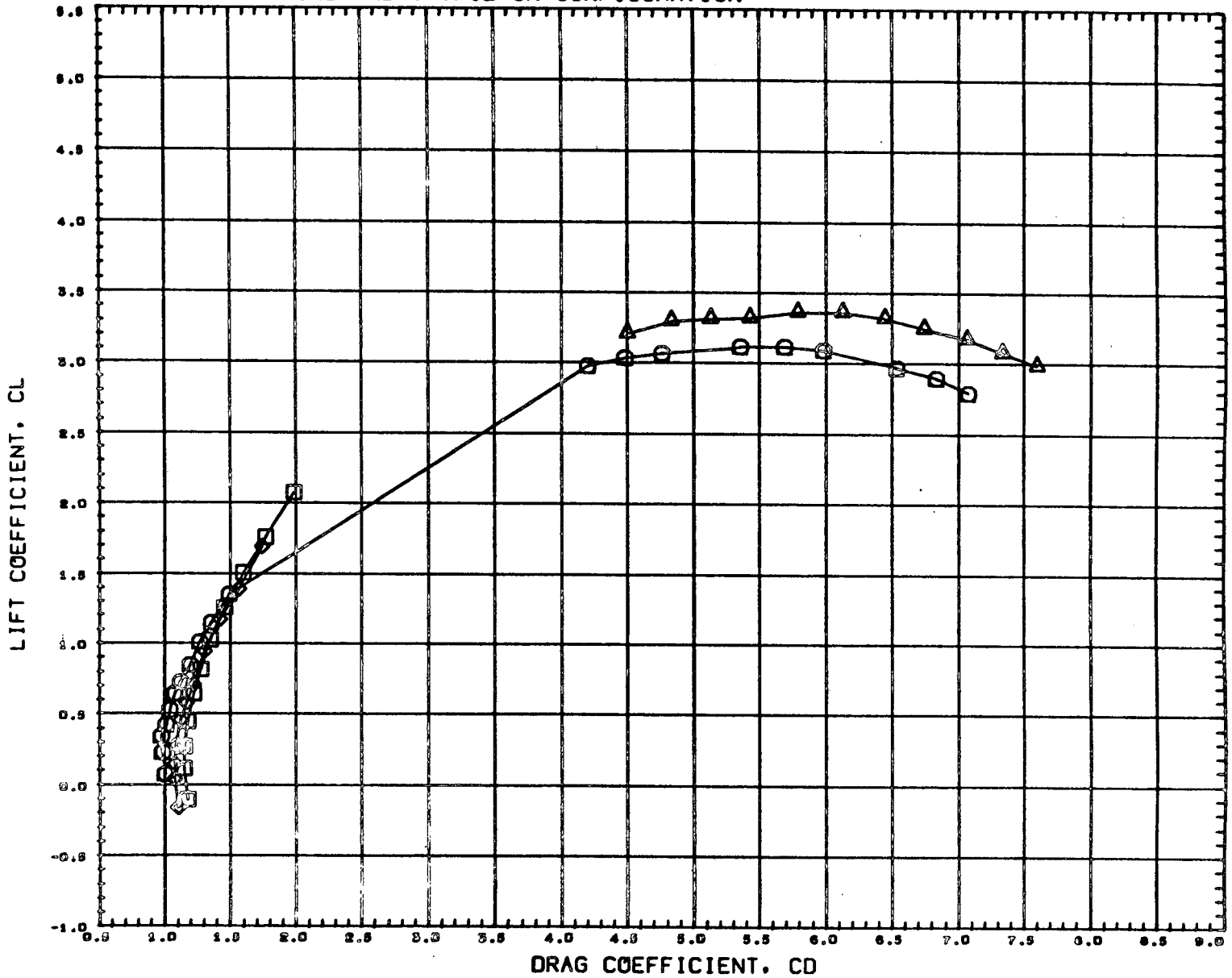
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

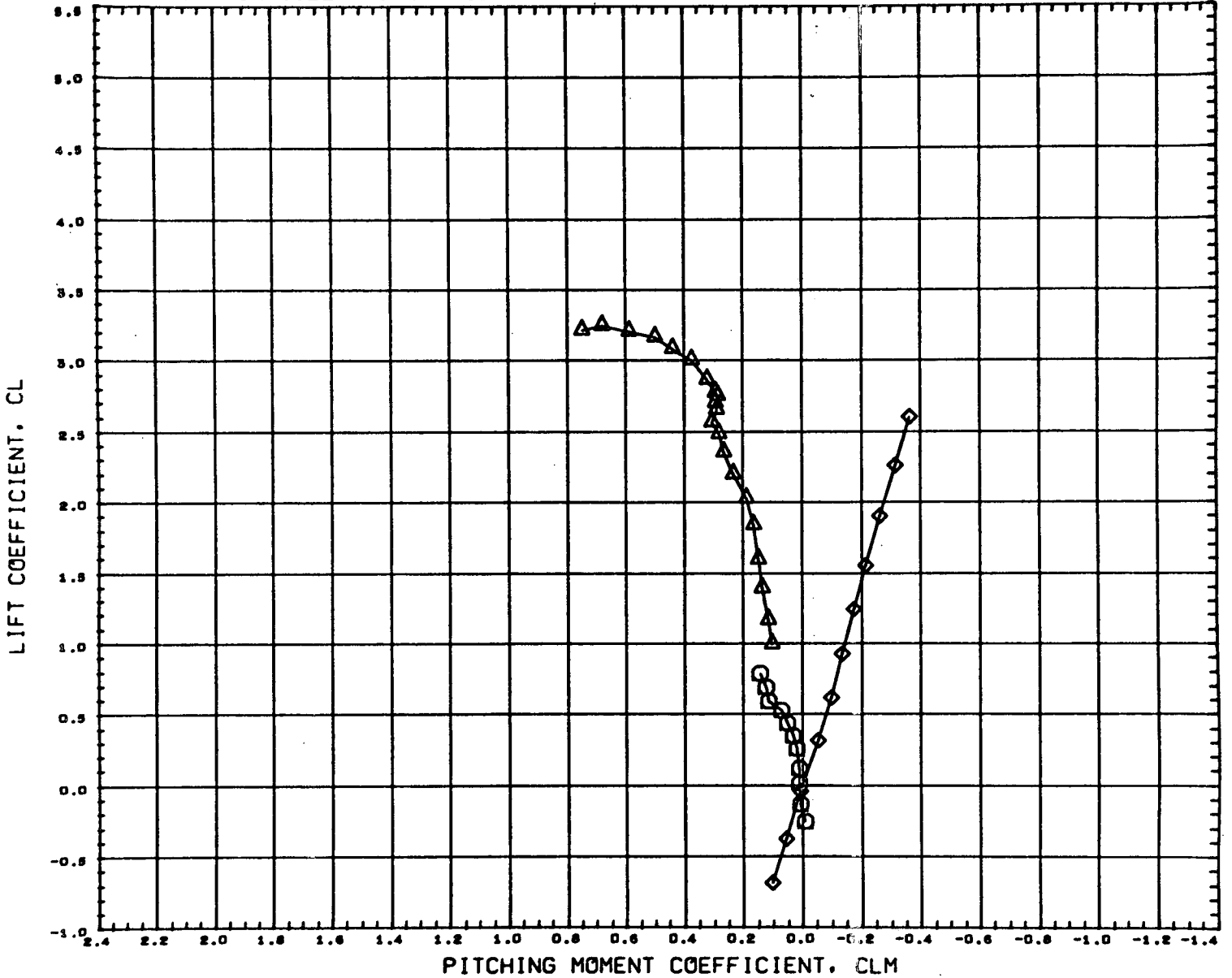
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050112)	□	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 50.1N.
(050028)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050030)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(050162)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 4.959

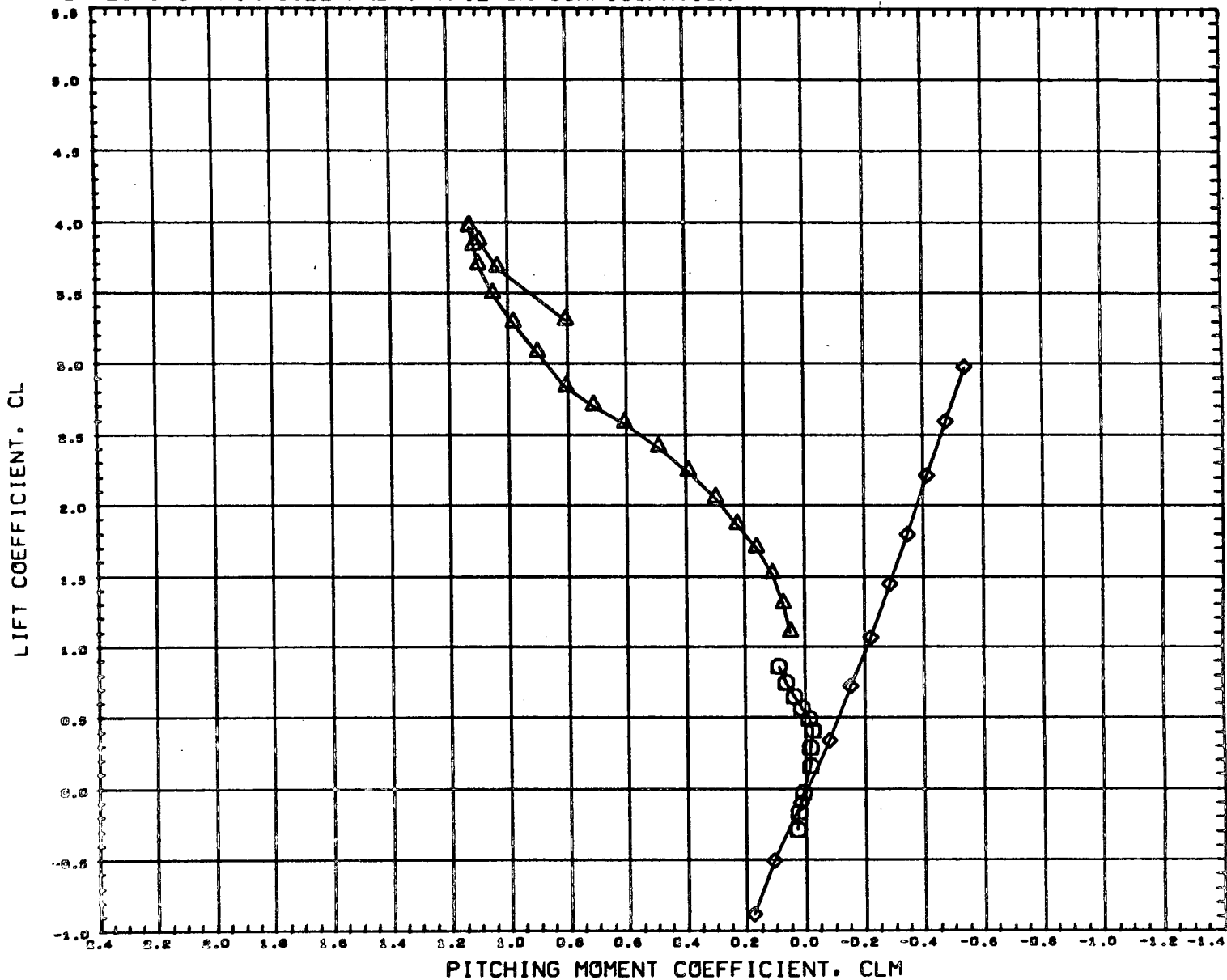
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .00366 BOOSTER 834R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50028)	MSFC 512 GD/C .00366 BOOSTER 834R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .00366 BOOSTER 834R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

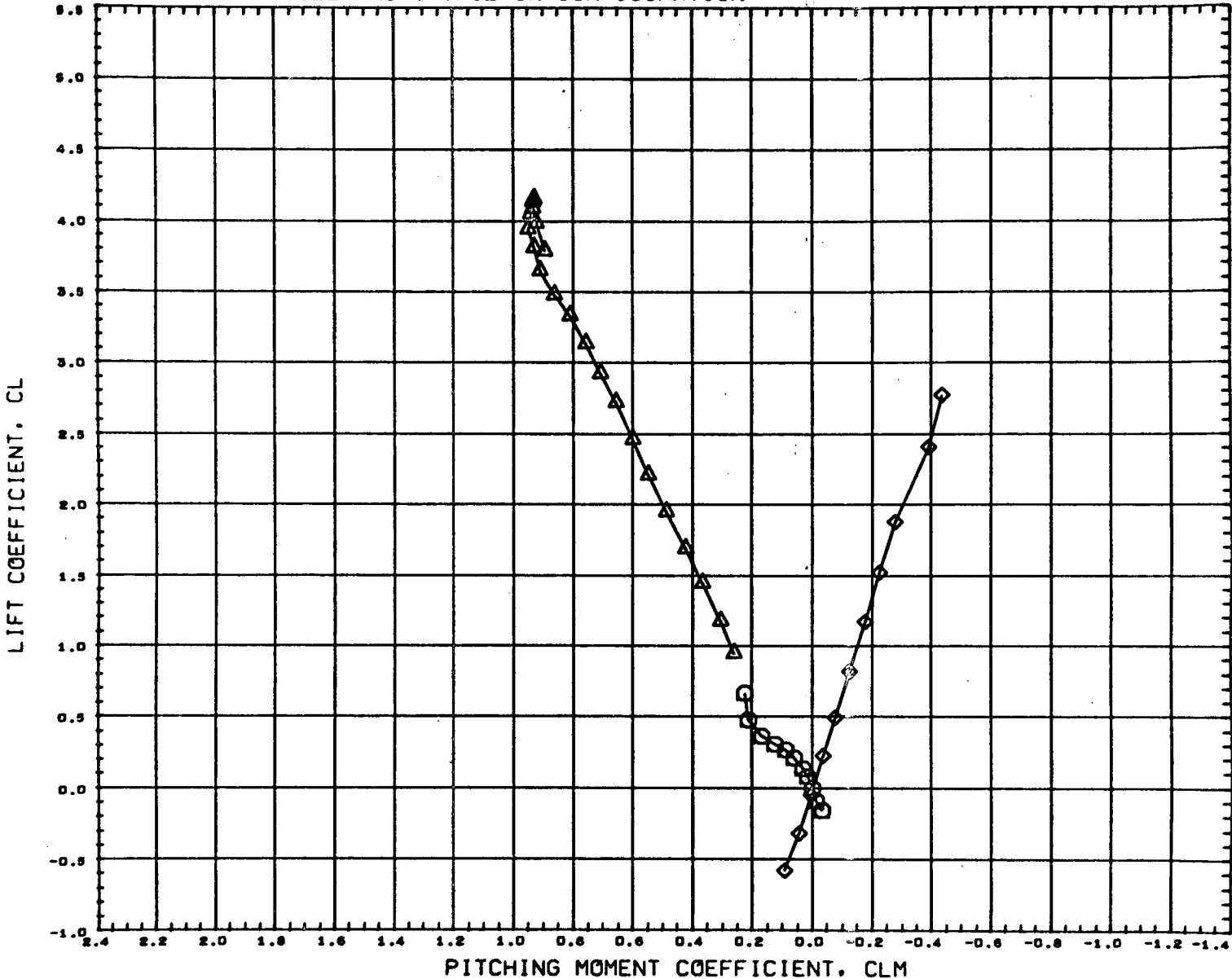
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 38.1N.
(D5002B)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 8.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

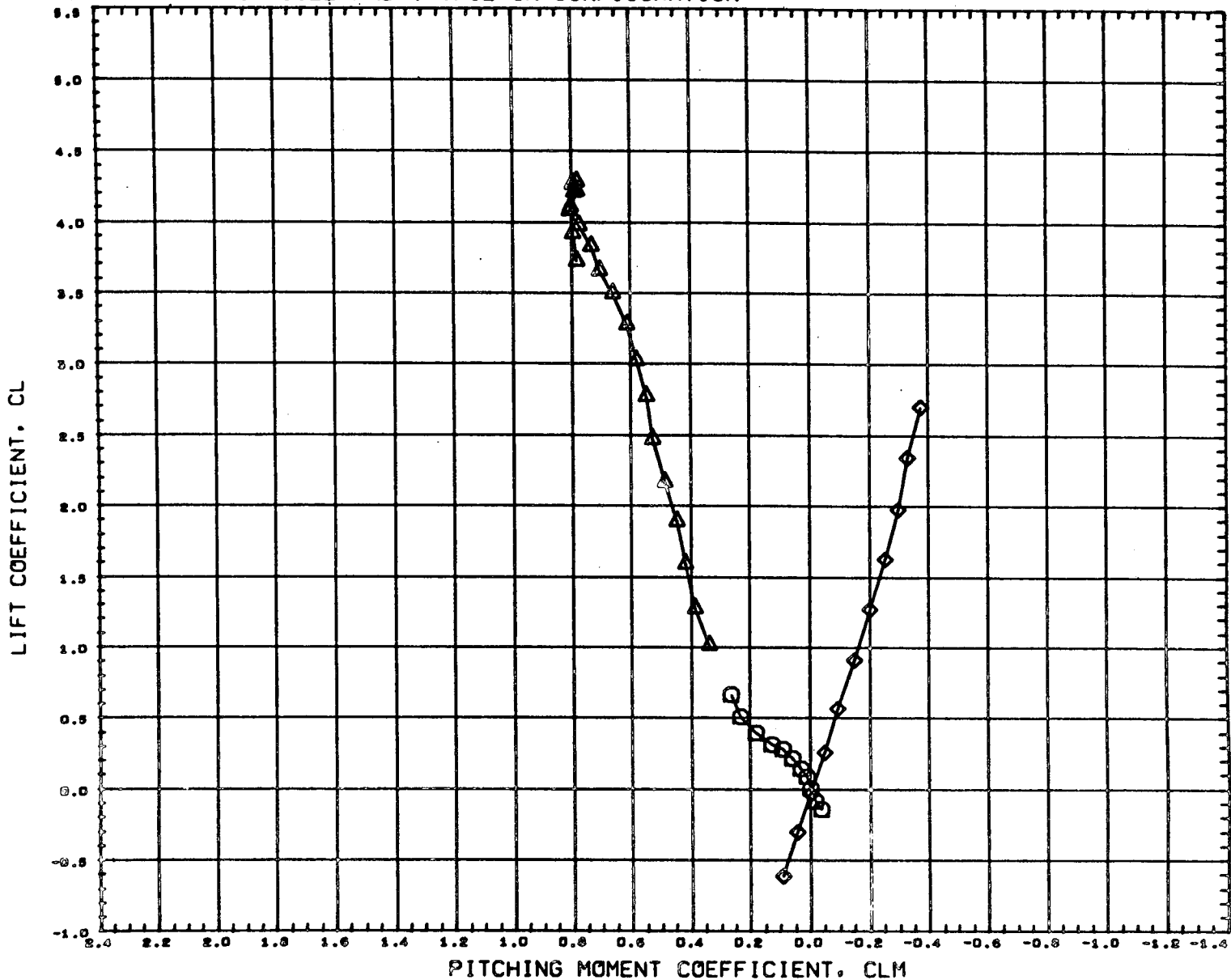
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(D50023)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XHRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

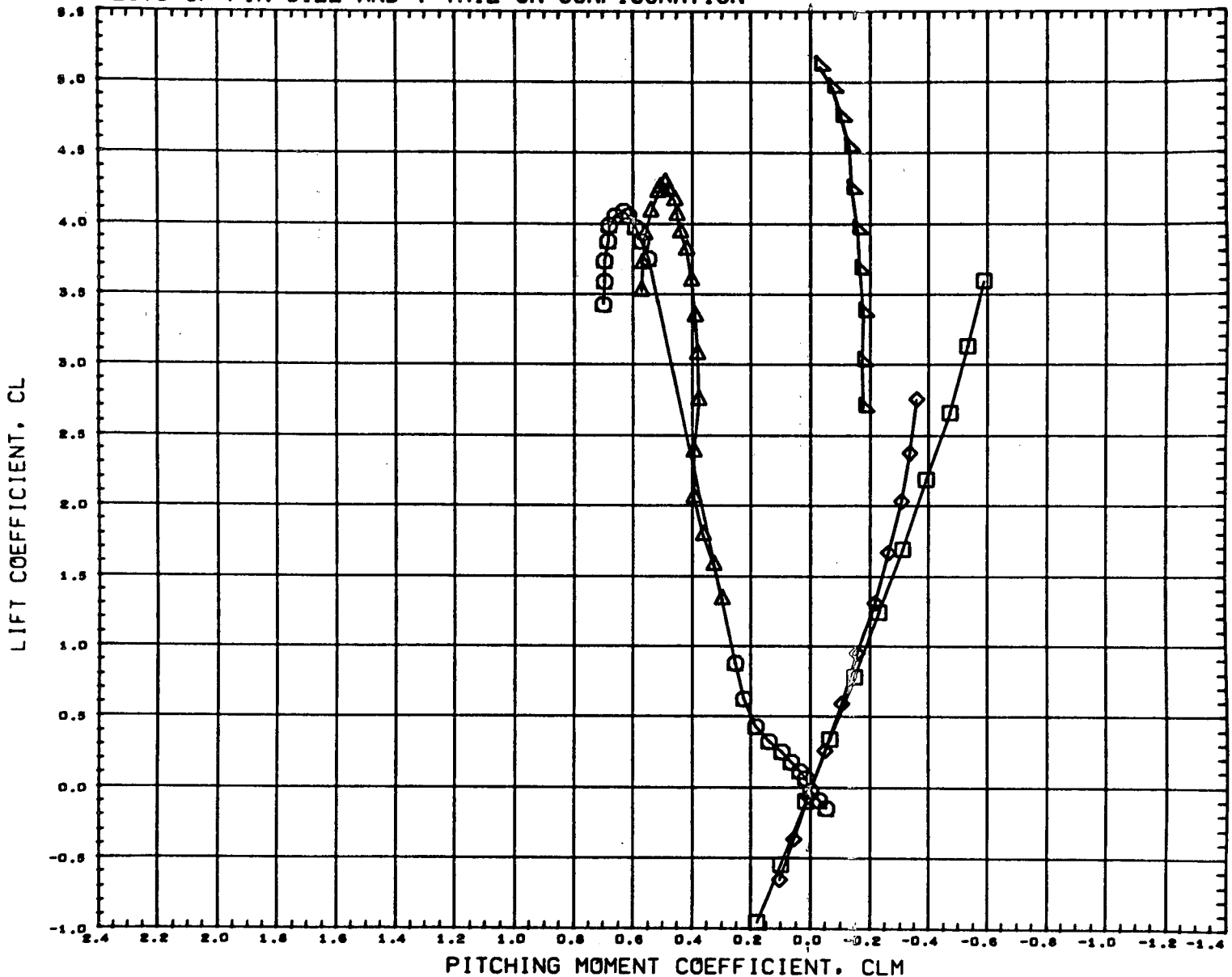
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIN00	LFLAP	RFLAP	REFERENCE INFORMATION
(050115)	MSFC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 98. IN.
(050028)	MSFC 512 GD/C .003368 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(050010)	MSFC 512 GD/C .003368 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(05016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

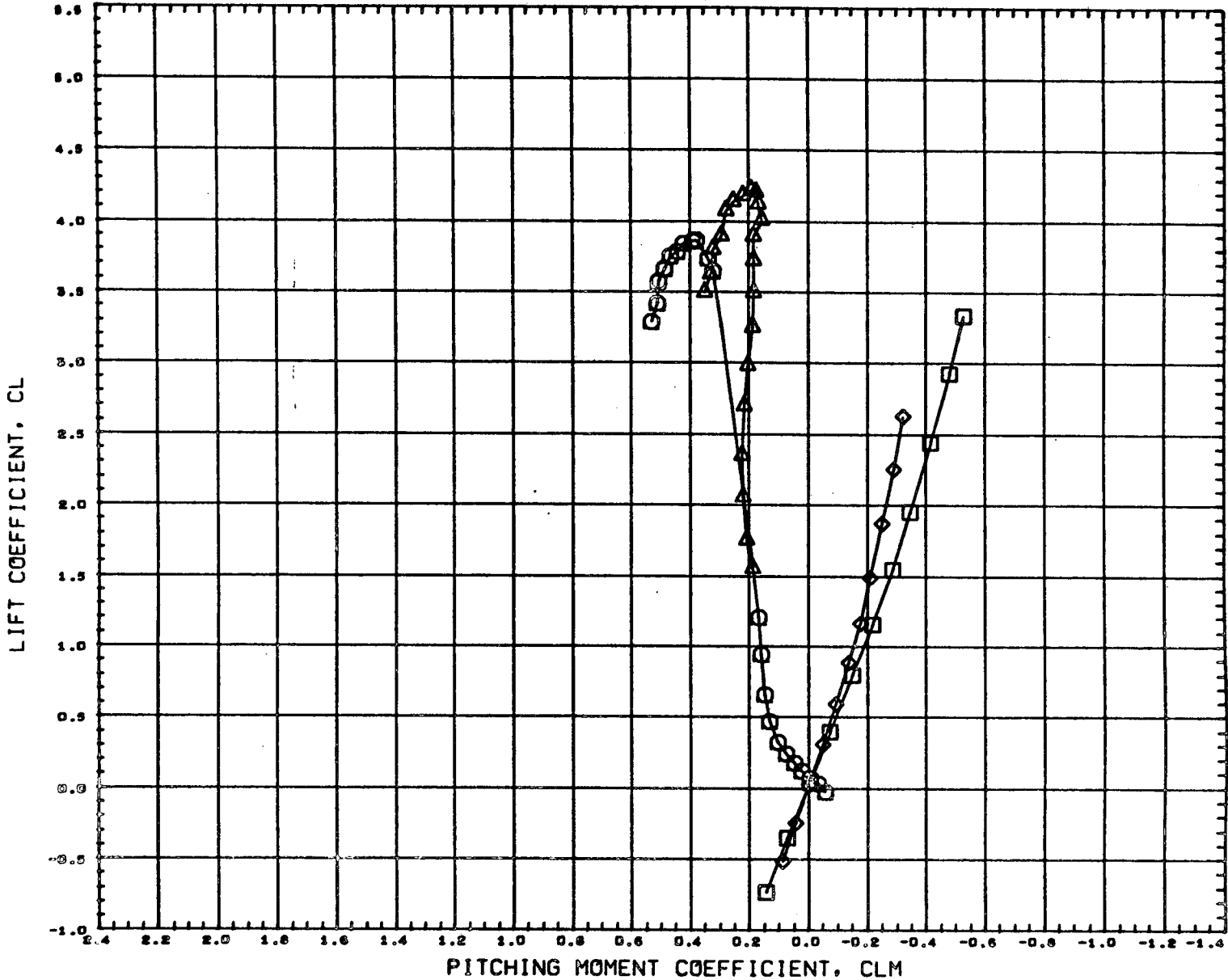
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(050118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 38. IN.
(050028)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(050010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(050050)	M8FC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(05016Z)	M8FC 512 GD/C .003366 BOOSTER B34R6T12 (INVERTED)	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.456

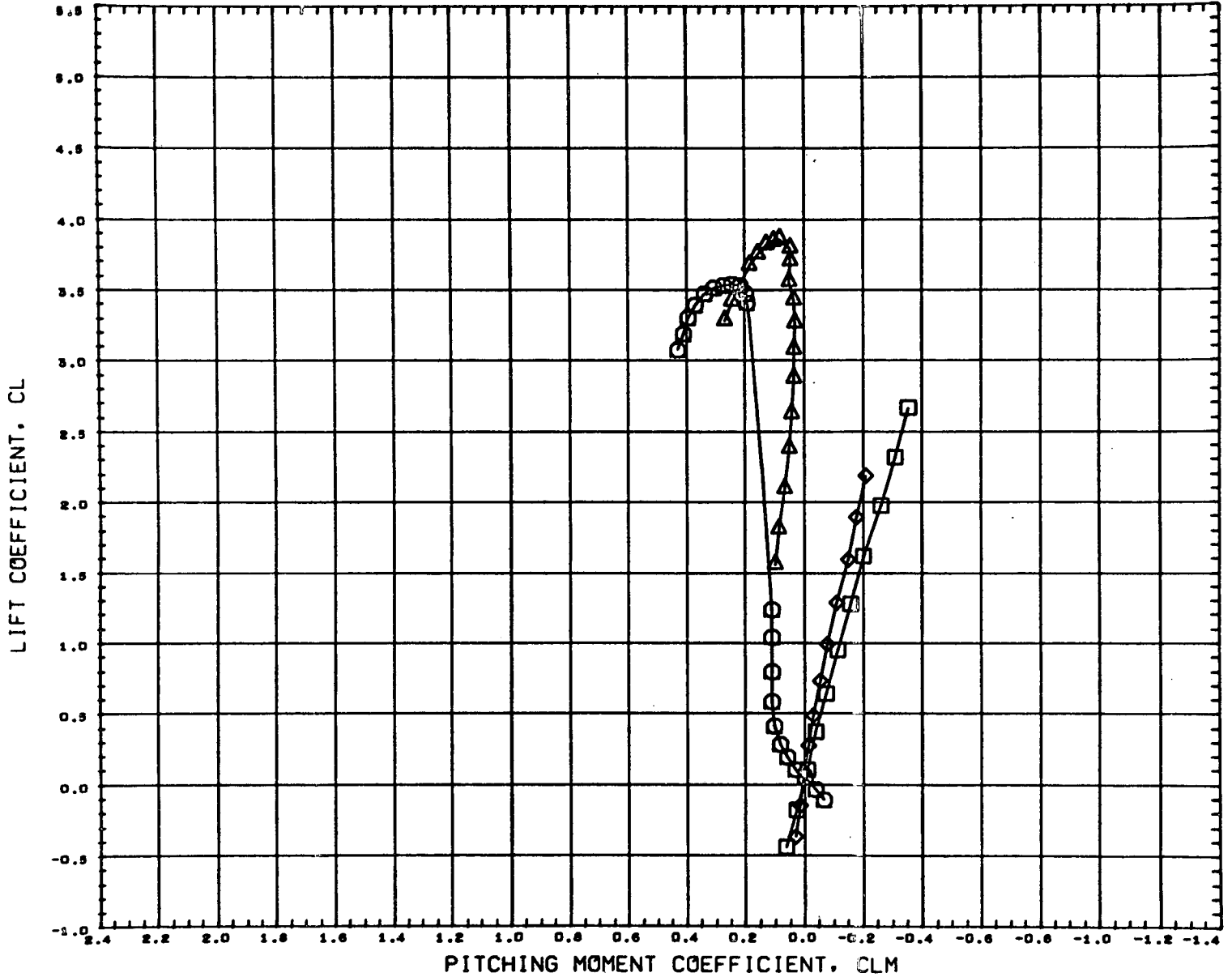
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050119)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(050028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000			LREF 6.2310 INCHES
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(050050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(050162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.866

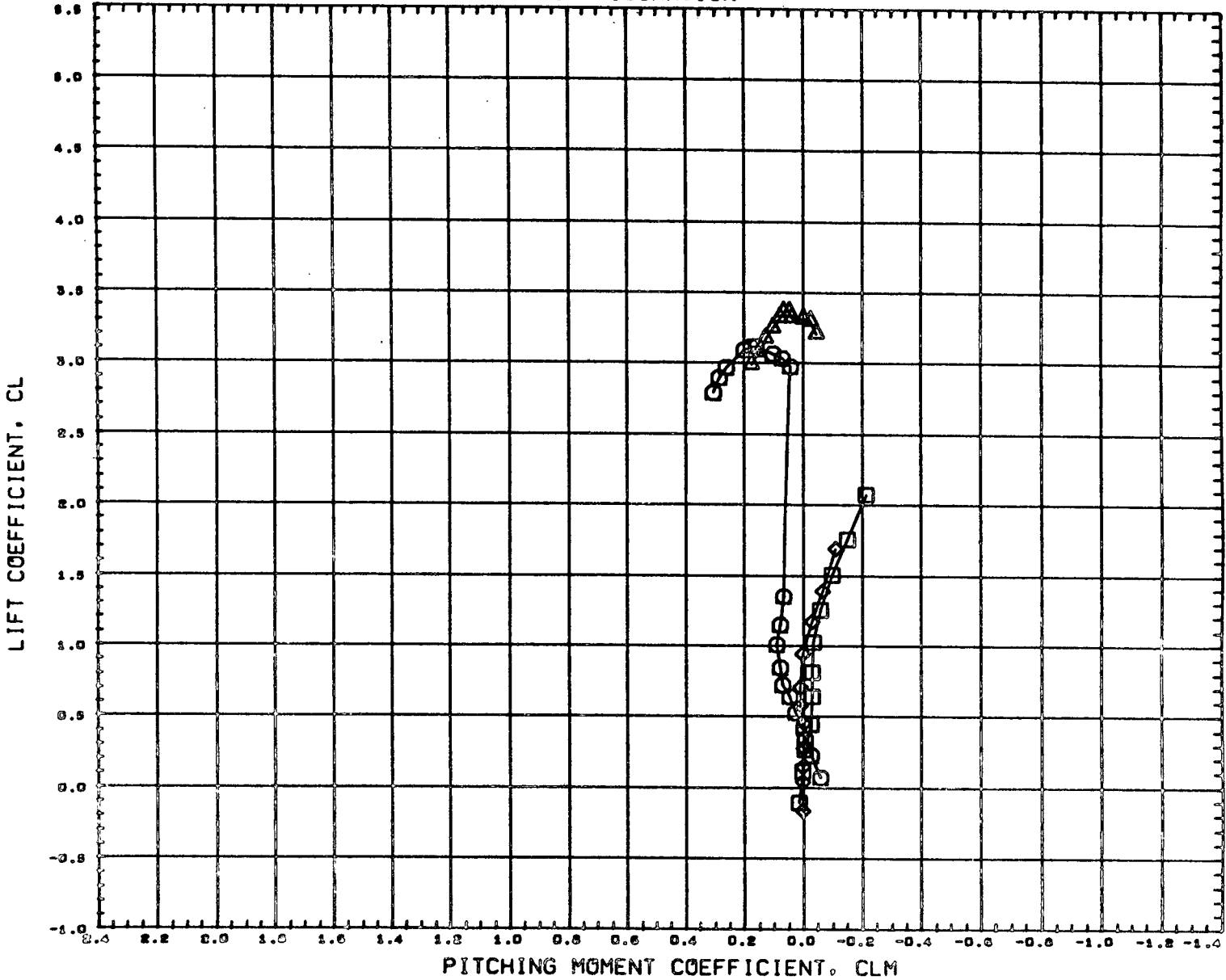
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 89. IN.
(D50025)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50050)	MSFC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(D50162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 2.740

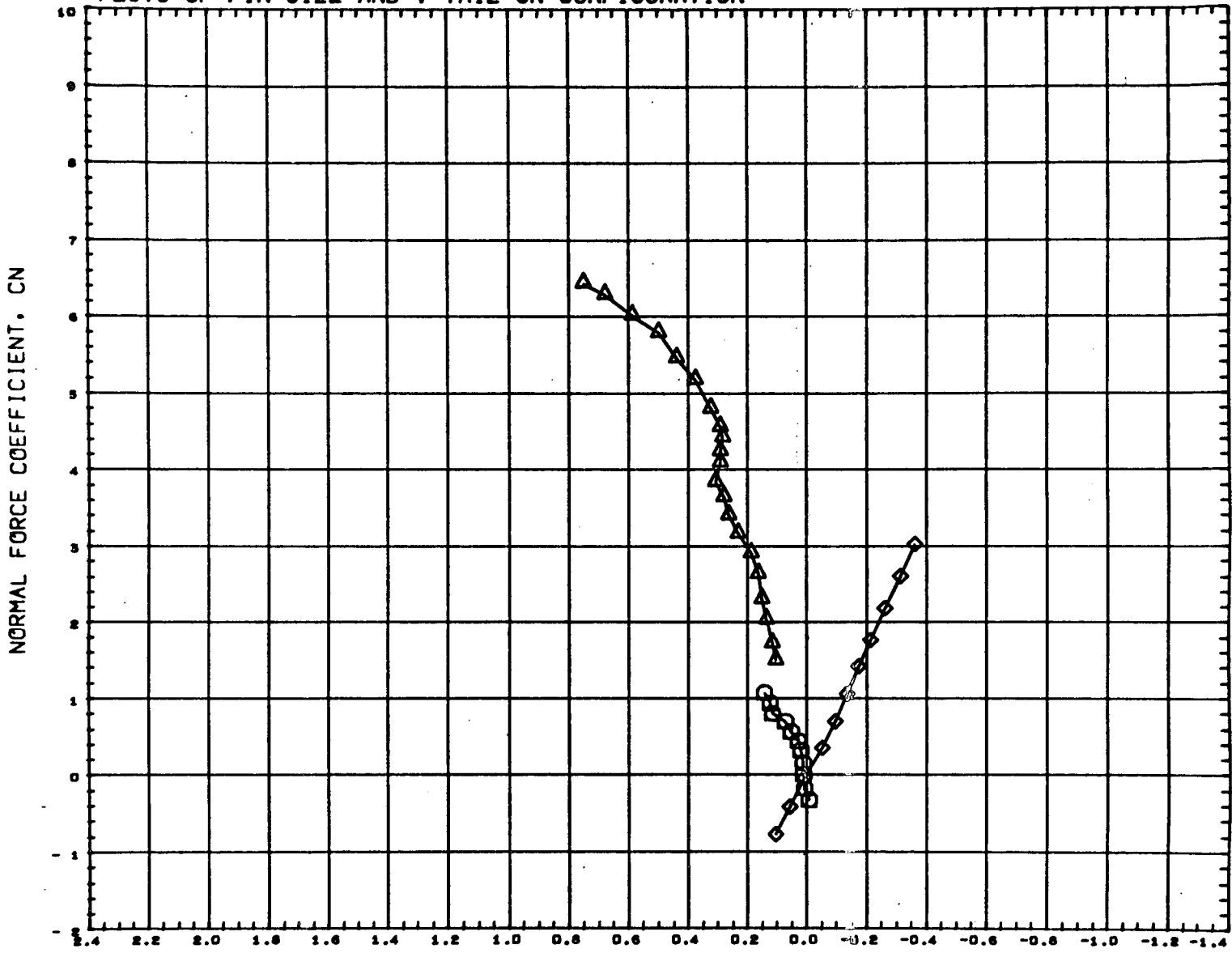
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	M8FC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000			BREF 0.9350 89.1N.
(D50020)	M8FC 512 GD/C .003368 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	M8FC 512 GD/C .003368 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	M8FC 512 GD/C .003368 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION

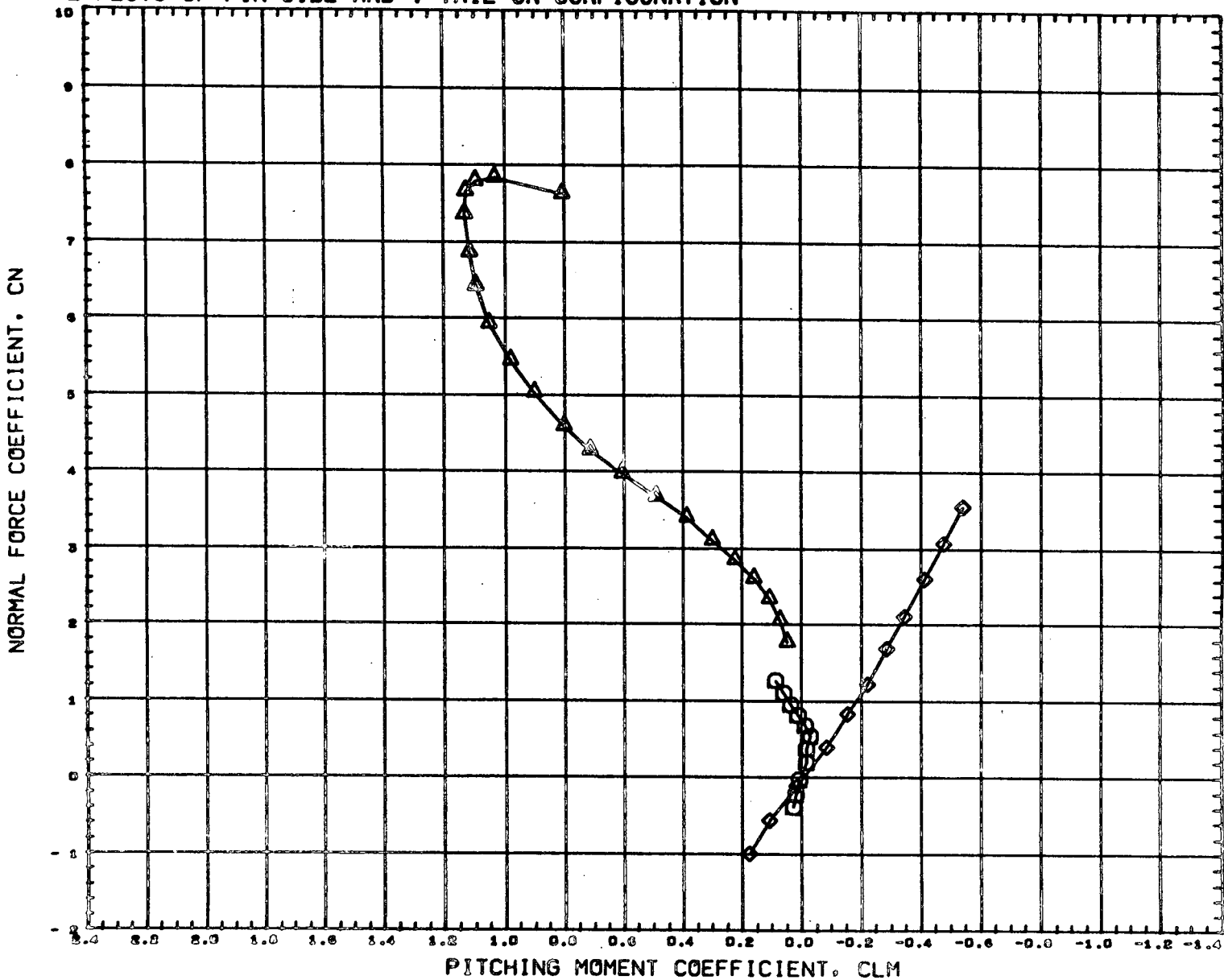


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	MSFC 512 GD/C .003366 BOOSTER 834R6	0.000	45.000			SREF 0.9350 39. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER 834R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER 834R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

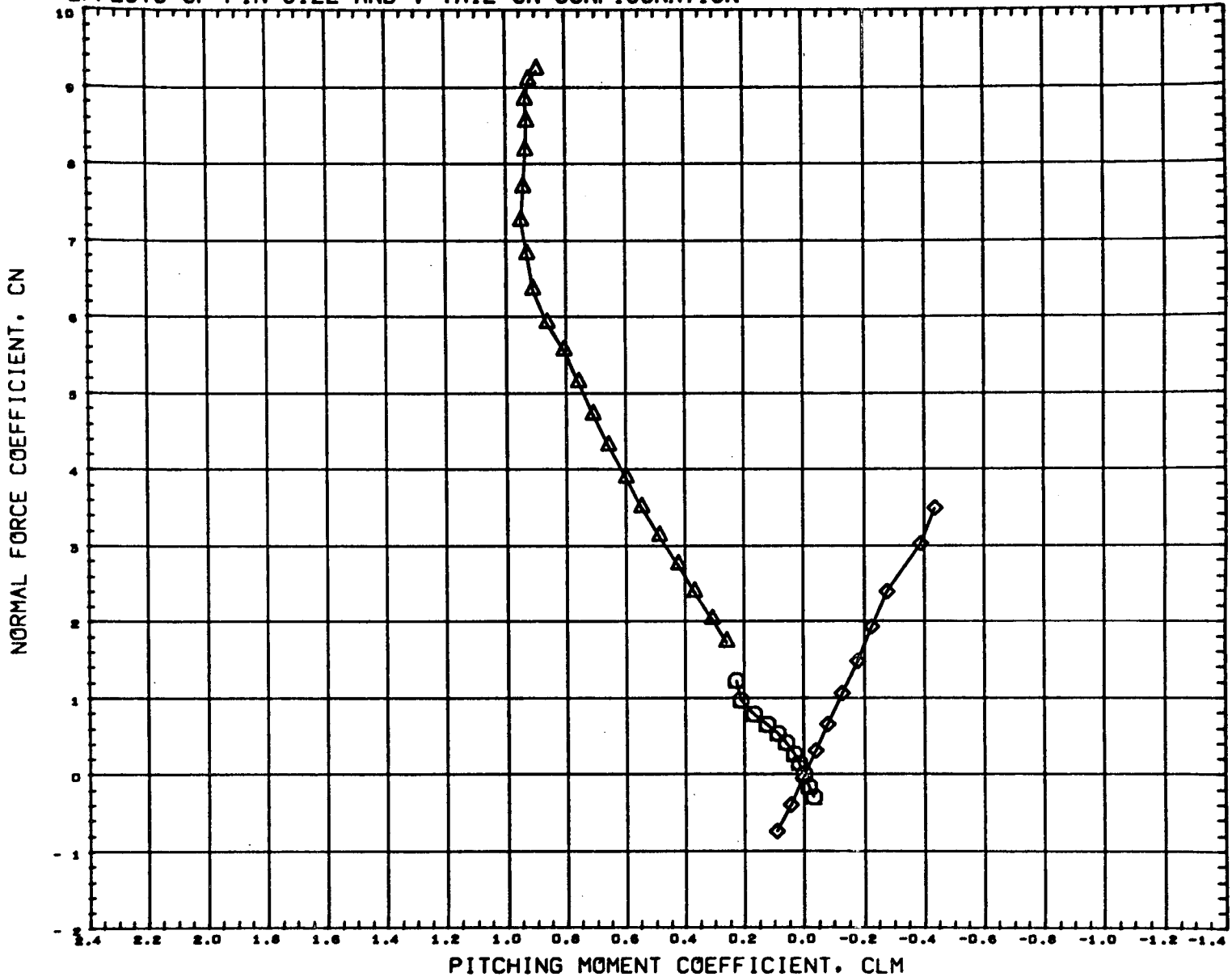
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION
(090118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 88. IN.
(090028)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(090010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SREF 1.0910 INCHES
(090050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(090162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.000

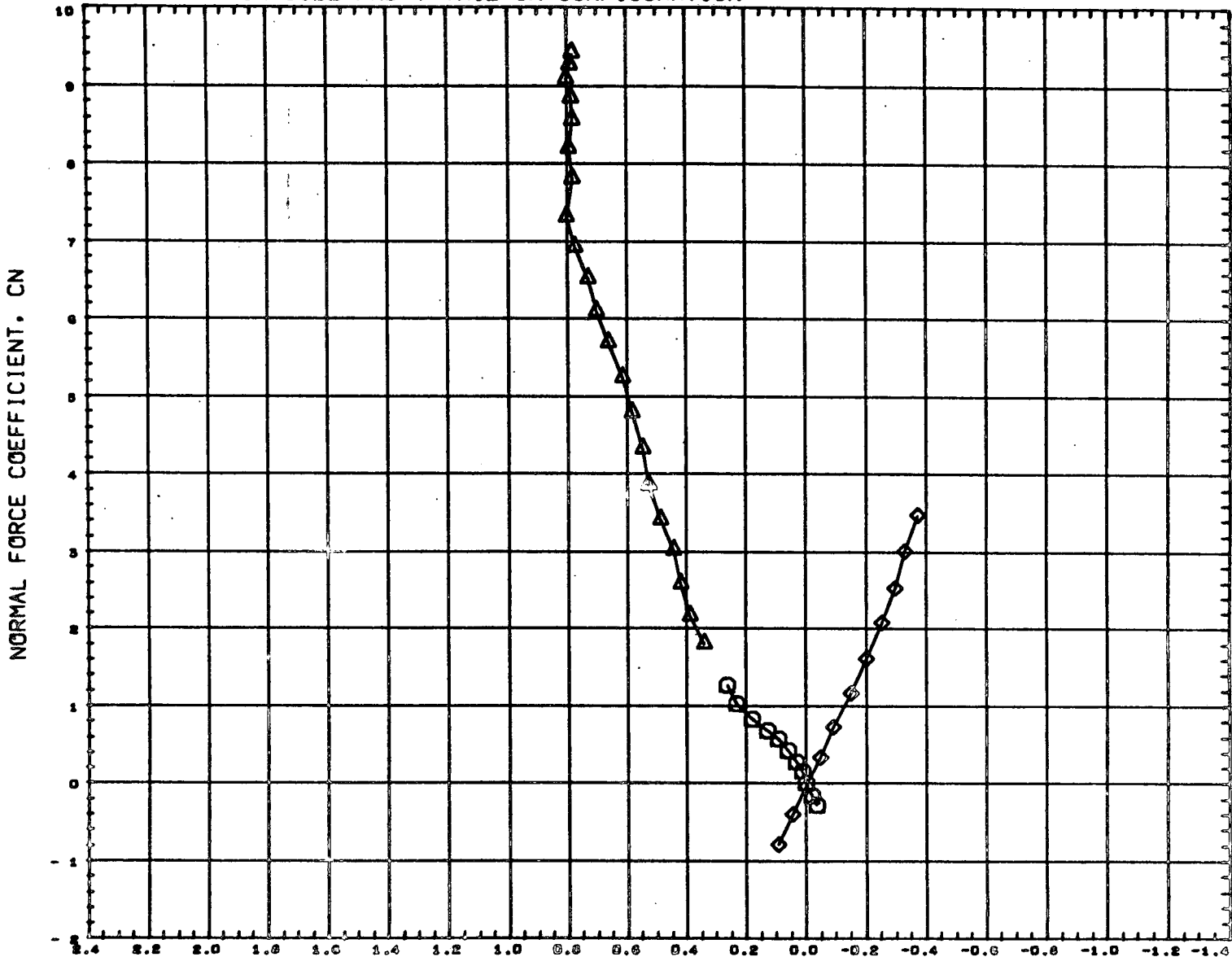
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIND	LFLAP	RFLAP	REFERENCE INFORMATION	
(D50118)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 89. IN.
(D50028)	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50050)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(D50162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.100

EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION

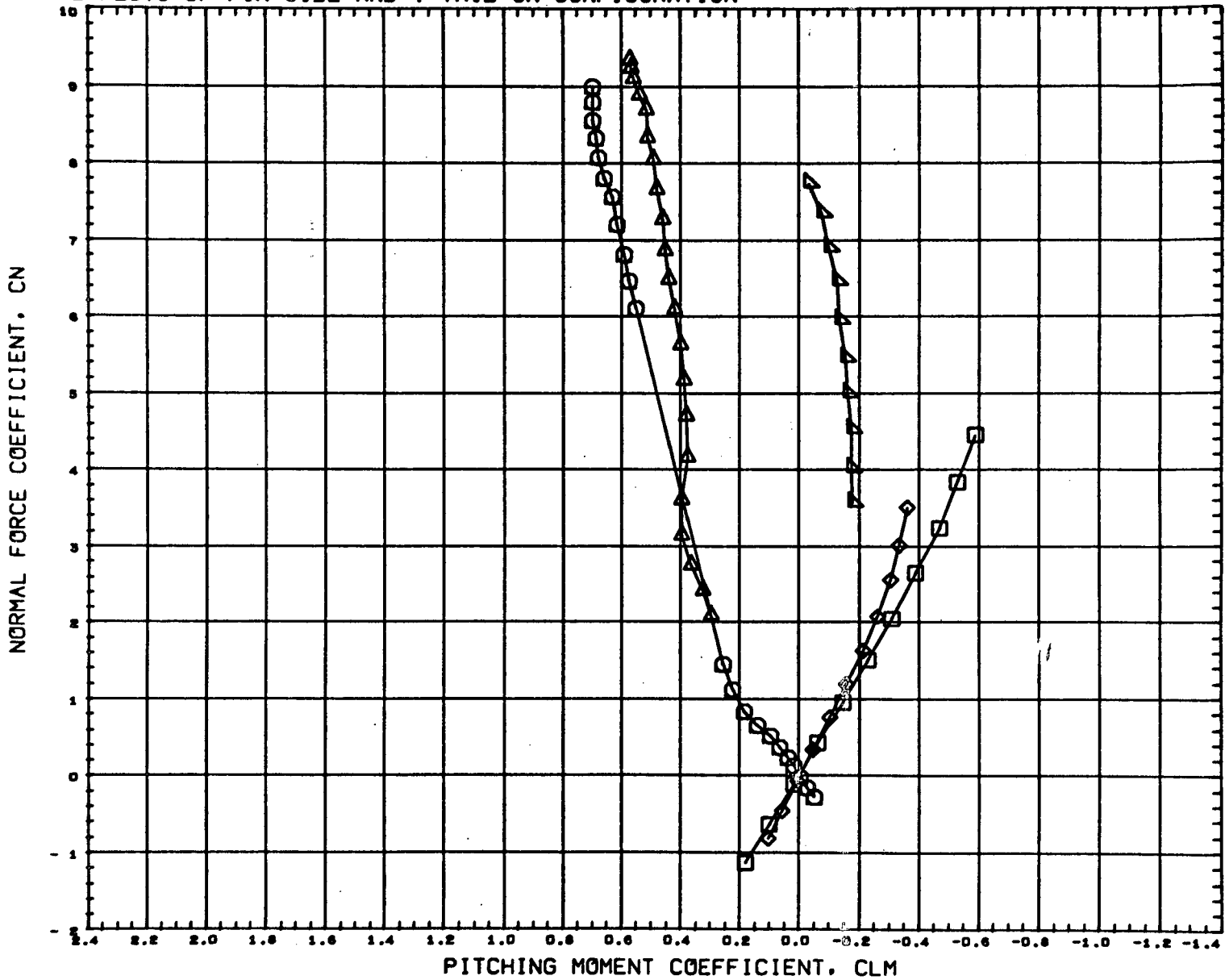


PITCHING MOMENT COEFFICIENT, CLM

DATA	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMO	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	□	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	BREF 0.9350 80.1M.
(D50028)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50050)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50162)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 1.201

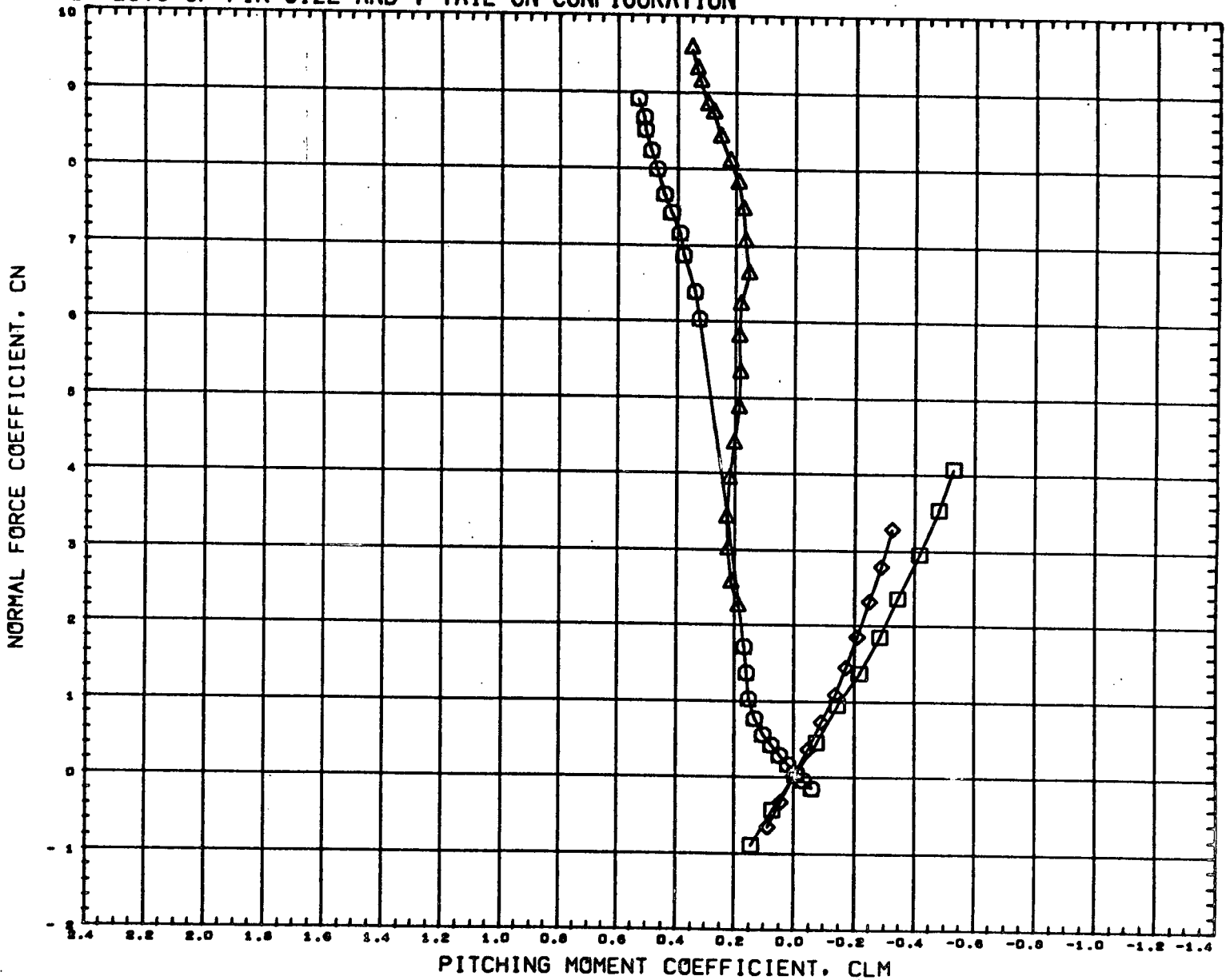
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50118)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 62. IN.
(D50028)	M8FC 512 GD/C .003366 BOOSTER B34R6T12	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SREF 1.0910 INCHES
(D50050)	M8FC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5016Z)	M8FC 512 GD/C .003366 BOOSTER B34R6T12 (INVERTED)	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.458

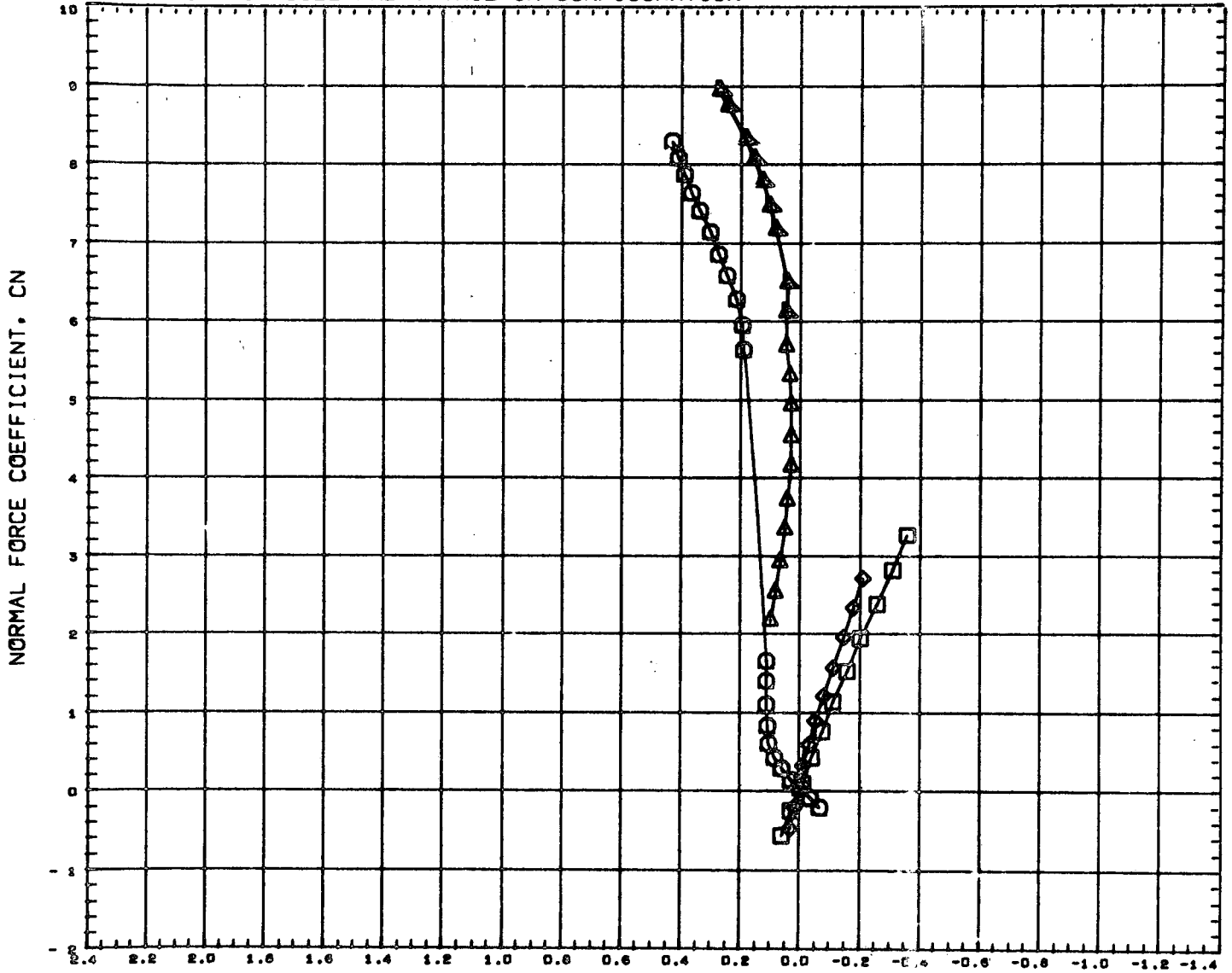
EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(050118)	MSFC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000			SREF	0.9350 SQ. IN.
(050028)	MSFC 512 GD/C .003368 BOOSTER B34R6T12	0.000	45.000			LREF	6.2310 INCHES
(050010)	MSFC 512 GD/C .003368 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(050050)	MSFC 512 GD/C .003368 BOOSTER B34R6T13	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(050162)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.966

EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION

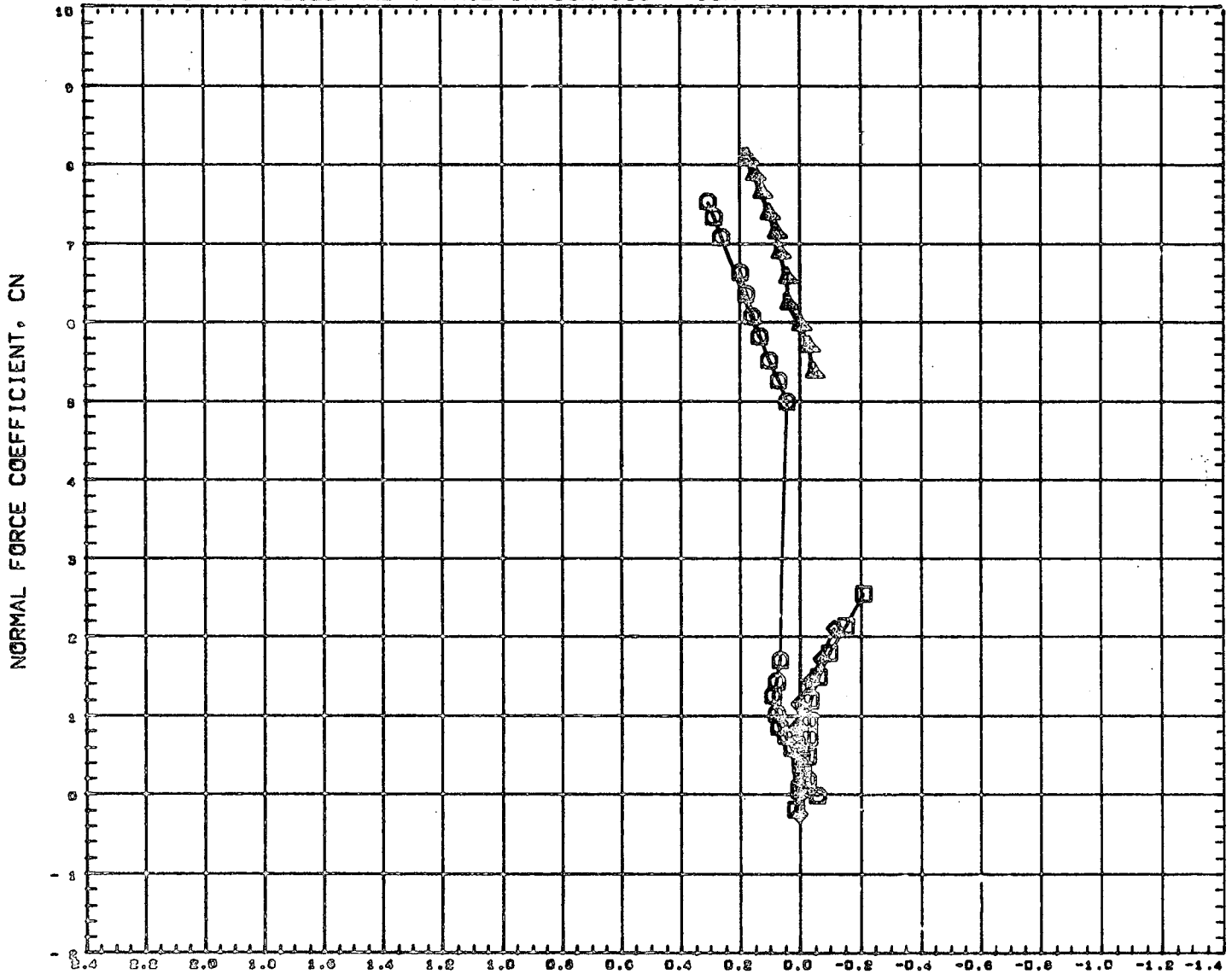


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PHIMOD	LFLAP	REFLAP	REFERENCE INFORMATION	
(D90118)	M8FC 512 GD/C .003306 BOOSTER	B34R6	0.000	45.000			SR LF	0.9350 80. IN.
(D90028)	M8FC 512 GD/C .003306 BOOSTER	B34R6T12	0.000	45.000	0.000	0.000	REF	6.2310 INCHES
(D90010)	M8FC 512 GD/C .003306 BOOSTER	B34R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D90090)	M8FC 512 GD/C .003306 BOOSTER	B34R6T13	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(D90418)	M8FC 512 GD/C .003306 BOOSTER	B34R6T12	0.000	45.000	0.000	0.000	YMRP	0.0000 INCHES
							ZMRP	0.0000 INCHES
							SCALE	0.0034

MACH 2.740

EFFECTS OF FIN SIZE AND V TAIL ON CONFIGURATION

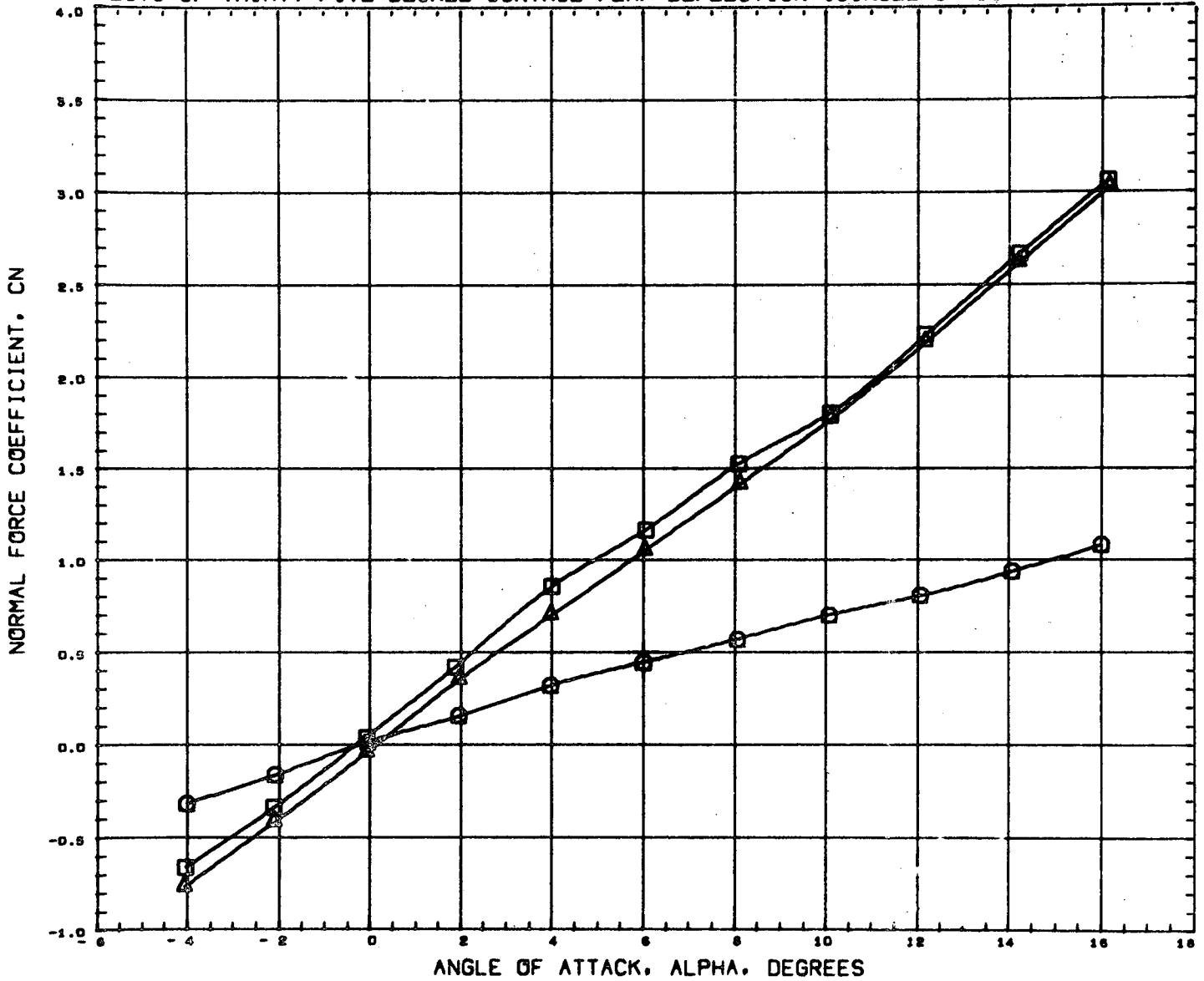


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(090118)	H07C 512 6D/C .003300 BOOSTER	0.000	45.000	0.000	0.000	BR LF 0.9350 88.1N.
(090020)	H07C 512 6D/C .003300 BOOSTER	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(090010)	H07C 512 6D/C .003300 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(080090)	H07C 512 6D/C .003366 BOOSTER	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(050418)	H07C 512 6D/C .003300 BOOSTER	0.000	45.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.990

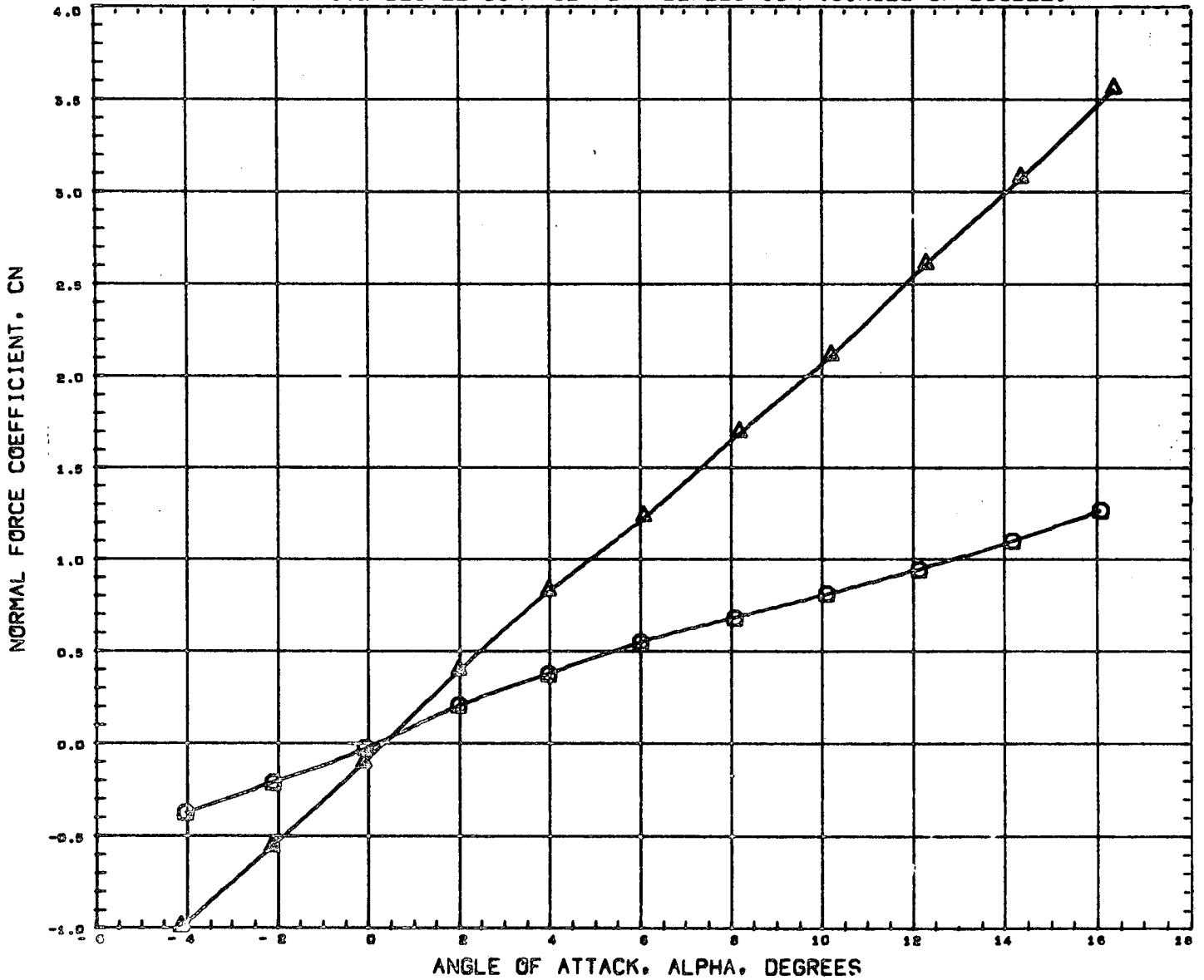
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	BREF 0.9350 SQ. IN.
(050010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(050060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(050090)	M8FC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XNRF 3.7920 INCHES YNRF 0.0000 INCHES ZNRF 0.0000 INCHES SCALE 0.0034

MACH 0.603

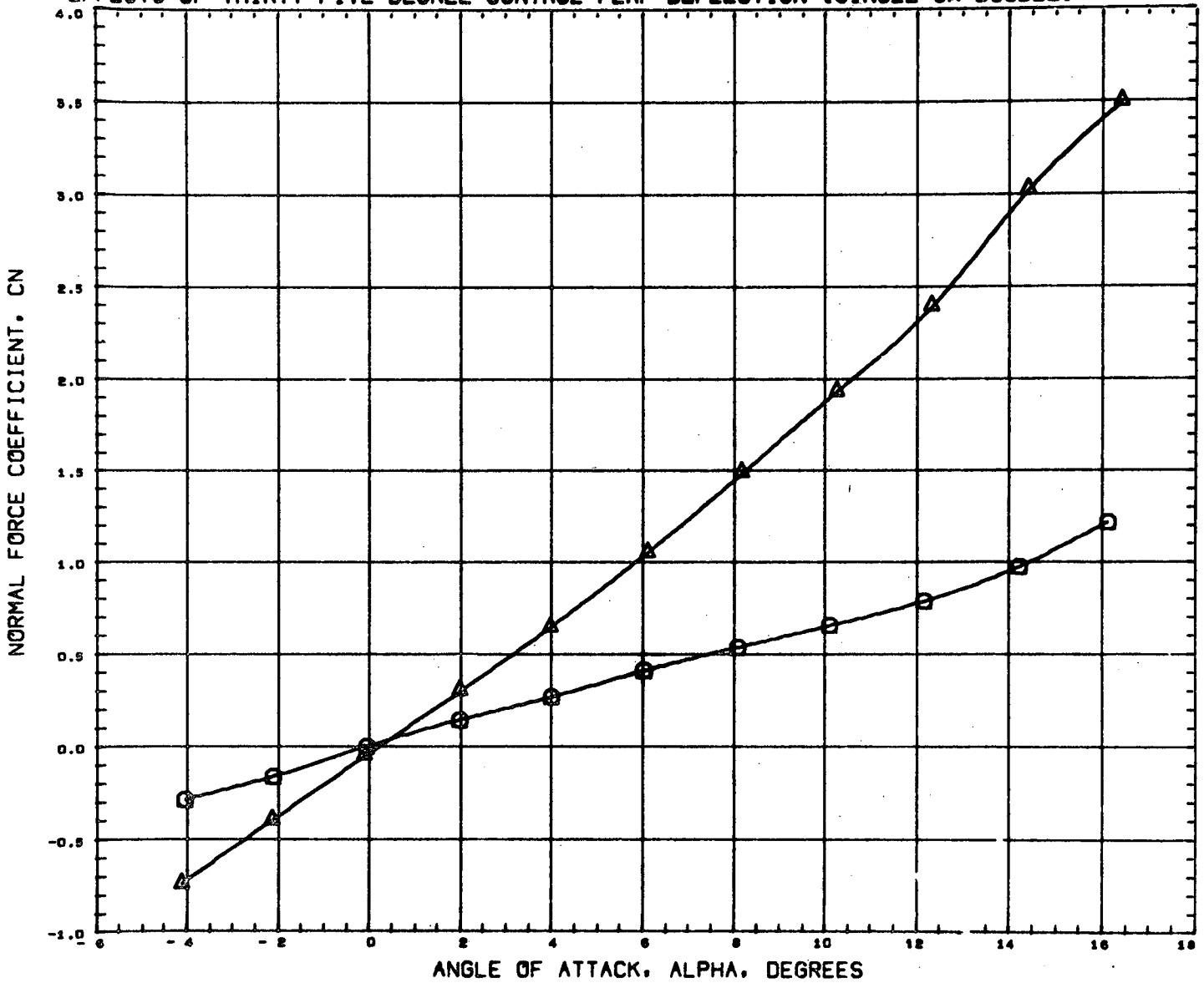
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA EST SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003300 COOYER BS4RS	0.000	45.000			MACF 0.9350 SQ. IN.
(D50010)	MSFC 512 GD/C .003300 COOYER BS4R6T10	0.000	0.000			LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D60000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.800

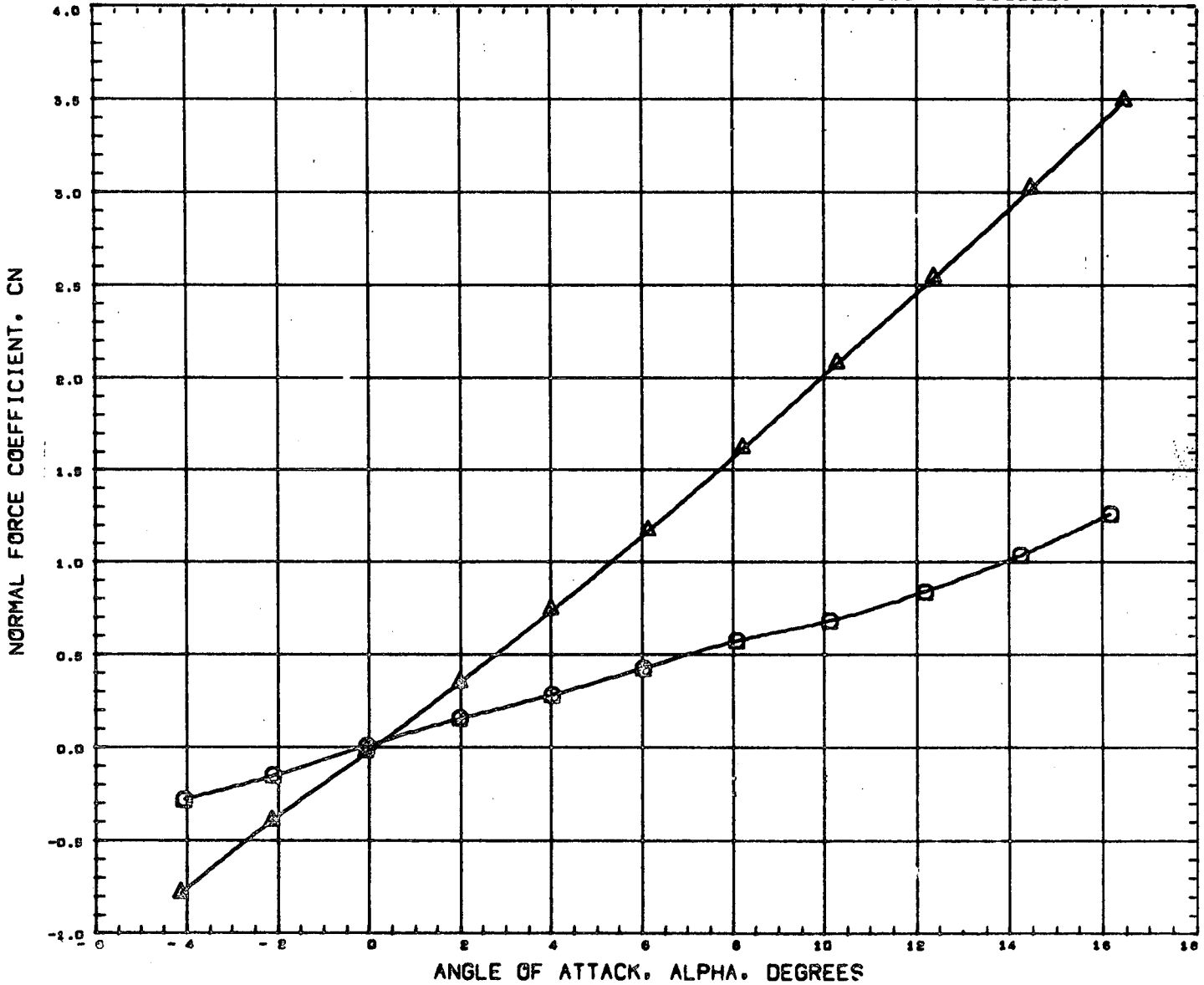
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D90110)	MSFC 512 GD/C .00366 BOOSTER B34R6	0.000	45.000			BRFF 0.9350 80. IN.
(D90010)	MSFC 512 GD/C .00366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D90090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	55.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

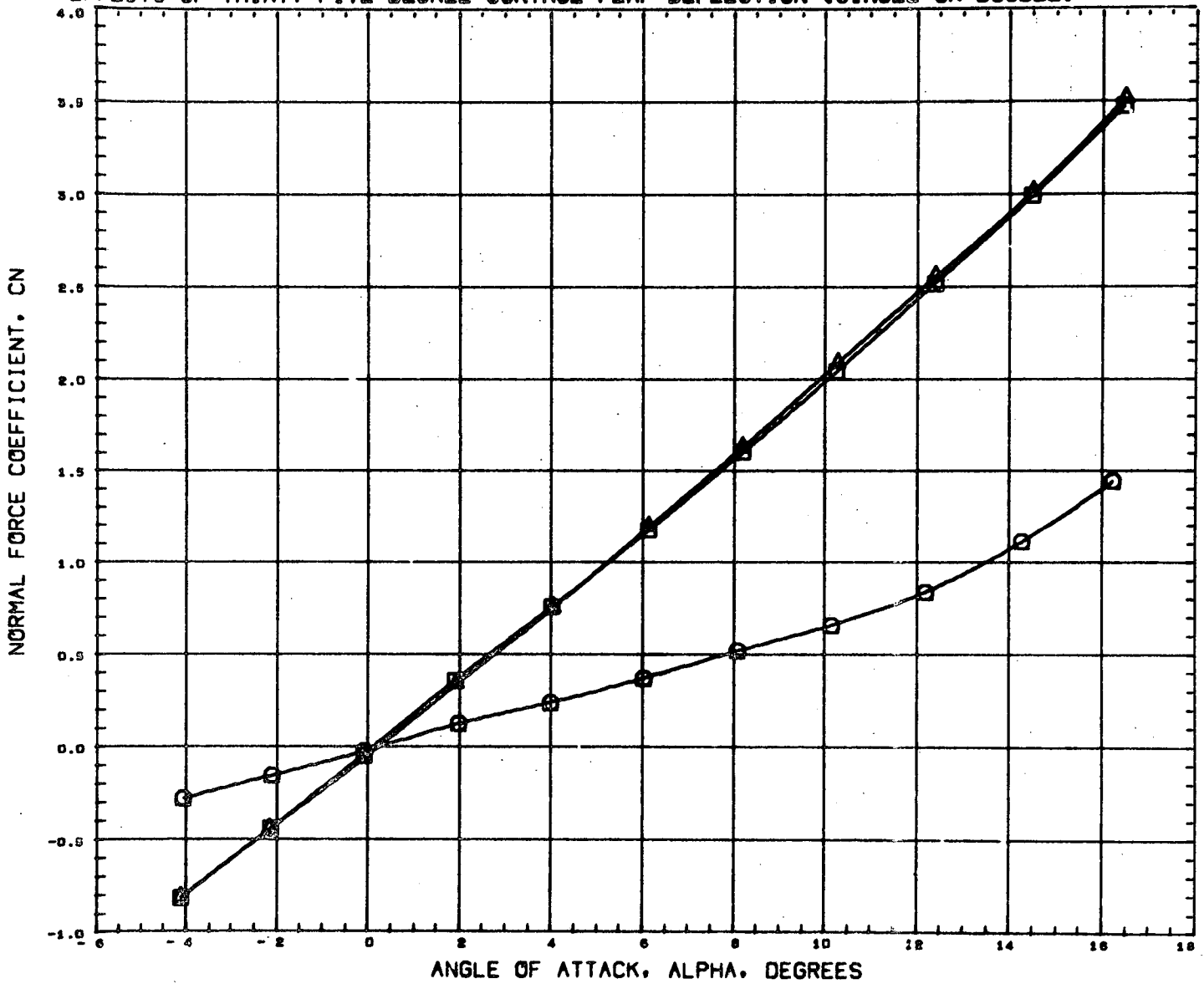
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(090110)	MSFC 512 CD/C .003508 BOOSTER B54R6	0.000	45.000			SR-F	0.9350 SQ. IN.
(090010)	MSFC 512 CD/C .003508 BOOSTER B54R6T1D	0.000	0.000	0.000	0.000	LREF	0.2510 INCHES
(050000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF	1.0910 INCHES
(050000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

NACH 1.201

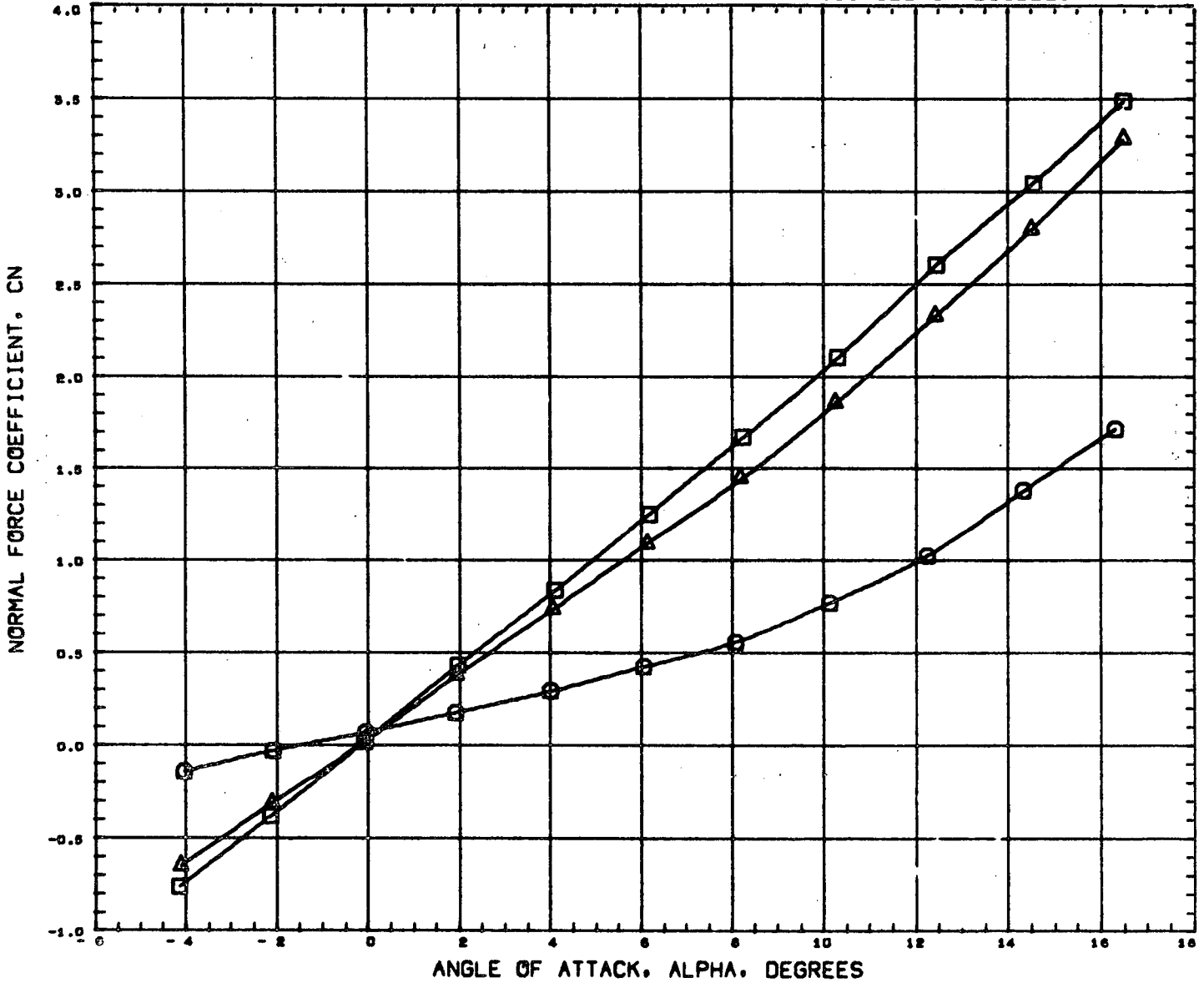
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000			SRE 0.9350 80. IN.
(D50010)	MSFC 512 GD/C .003368 BOOSTER B34R6T10	0.000	0.000			LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50000)	MSFC 512 GD/C .003368 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.458

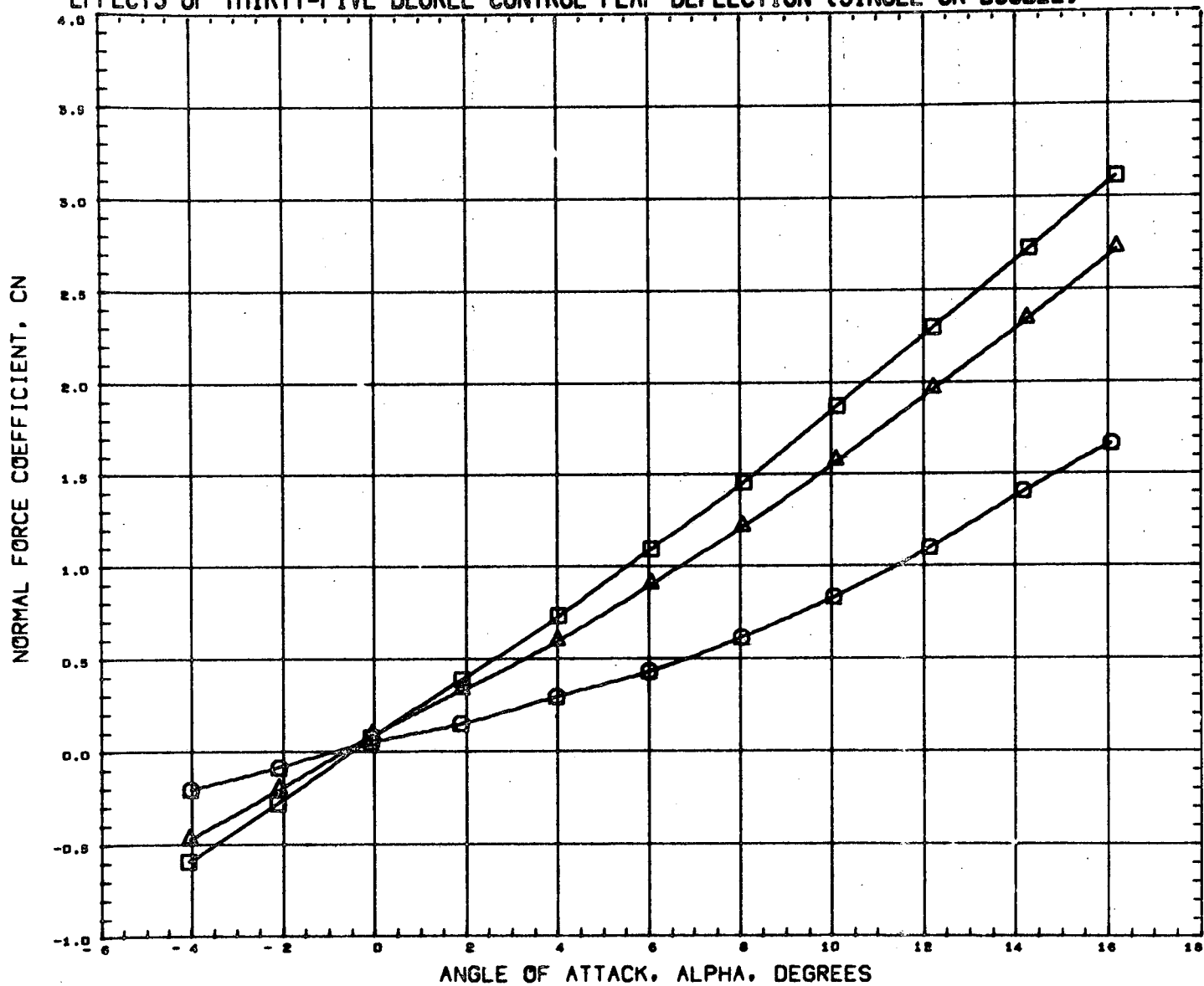
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(D5D110)	H8FC 512 6D/C .003566 BOOSTER B34R6	0.000	45.000			SRIF	0.9350 80. IN.
(D5D010)	H8FC 512 6D/C .003566 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D5D000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF	1.0910 INCHES
(D5D000)	H8FC 512 6D/C .003566 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.066

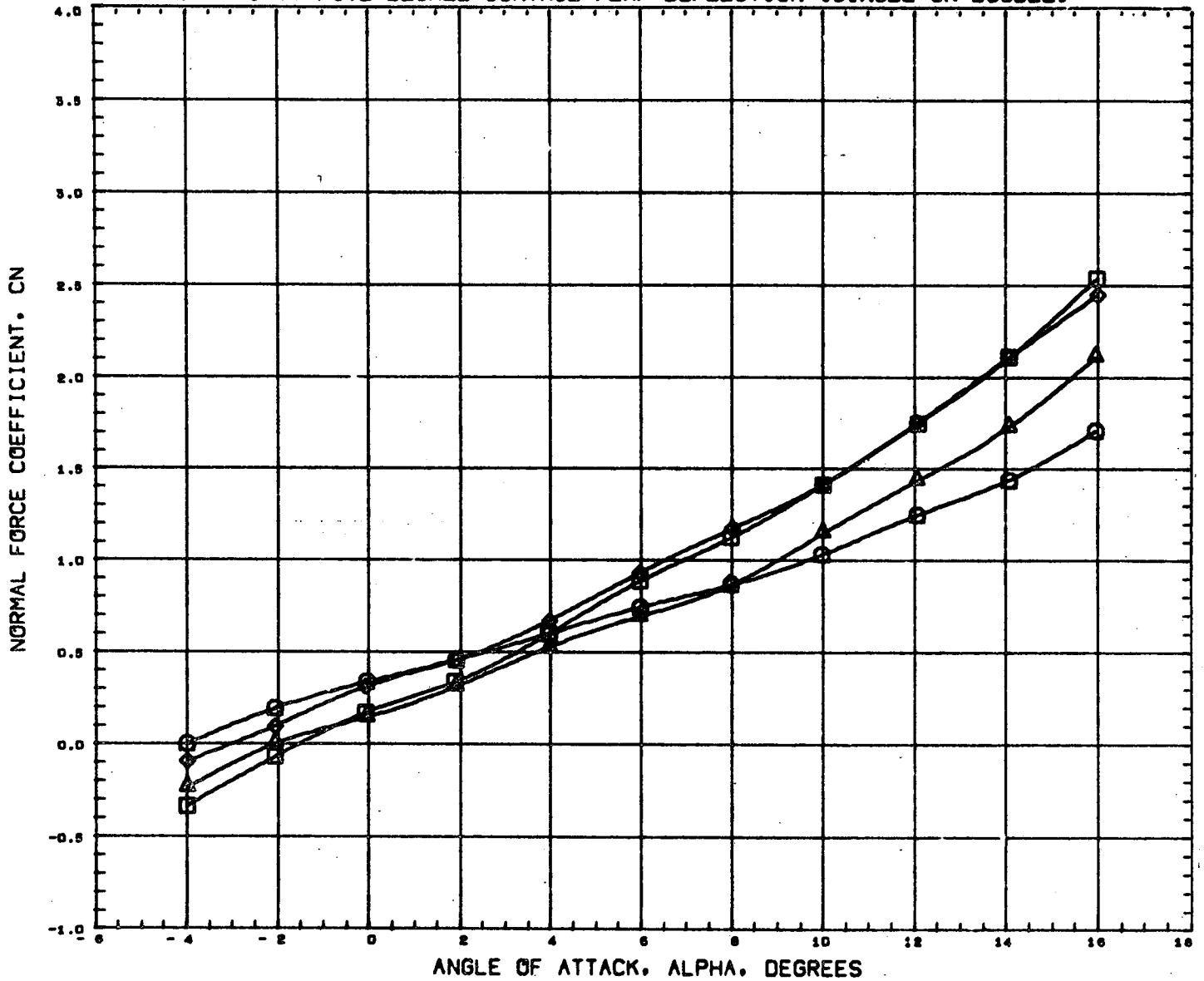
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRF 0.9350 30. IN.
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	SRF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

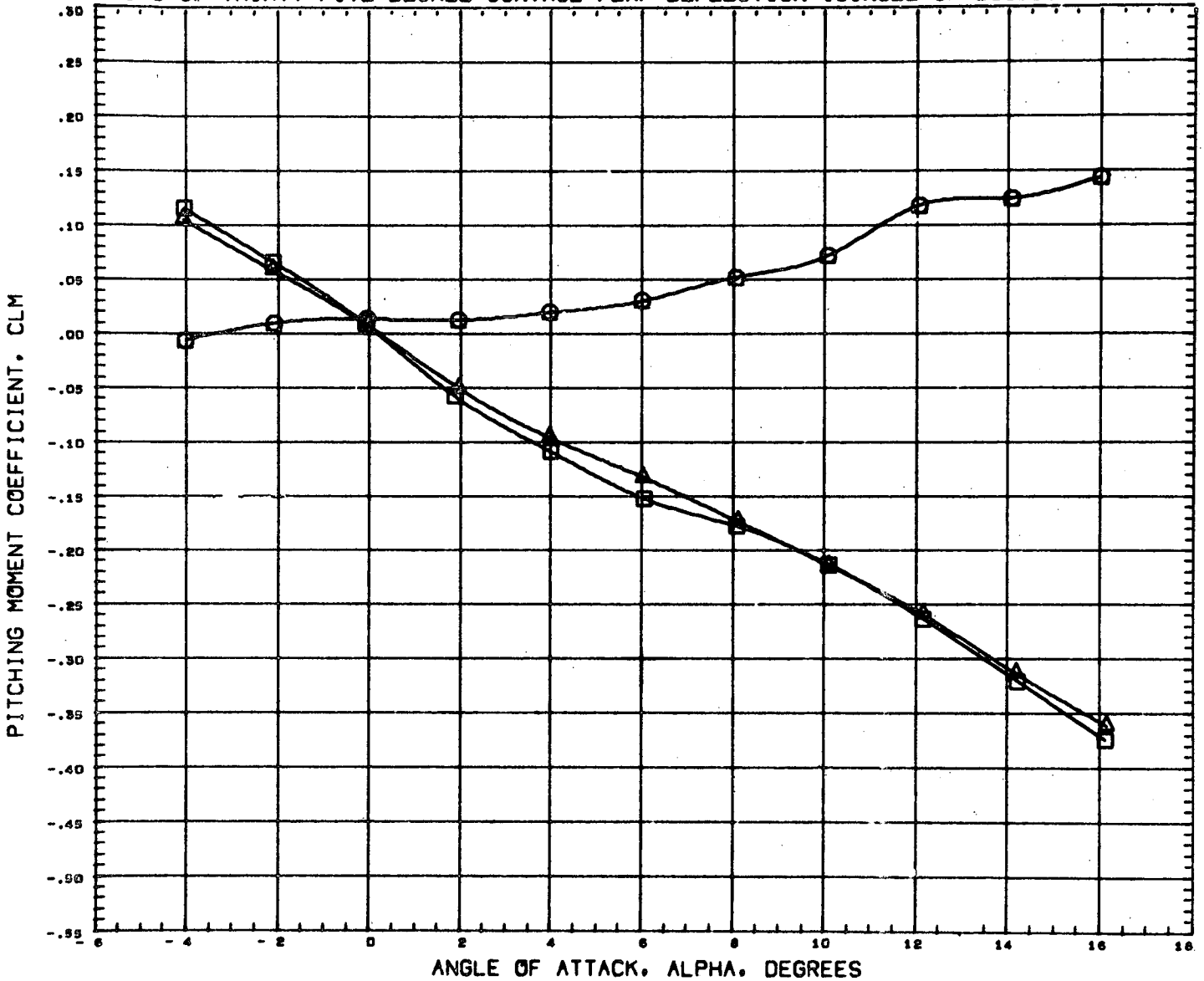
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			BRE ⁻ 0.9350 SQ. IN.
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	M8FC 512 GD/C .003366 BOOSTER B34R6T14	0.000	0.000	35.000	0.000	BREF 1.0610 INCHES
(D50090)	M8FC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XNRP 3.7920 INCHES
						YNRP 0.0000 INCHES
						ZNRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

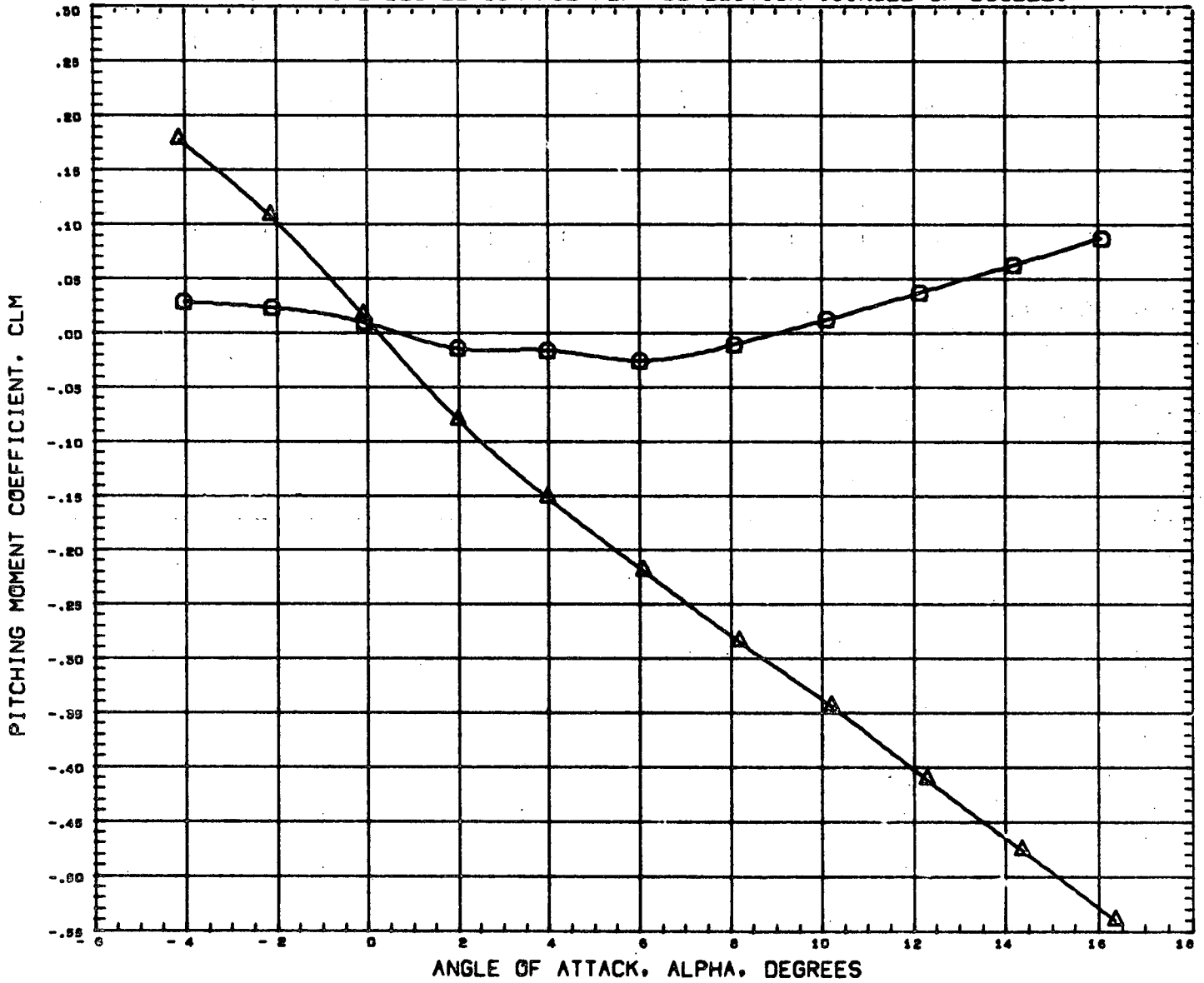
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D90110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SPTF 0.9350 88. IN.
(D90010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D90090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

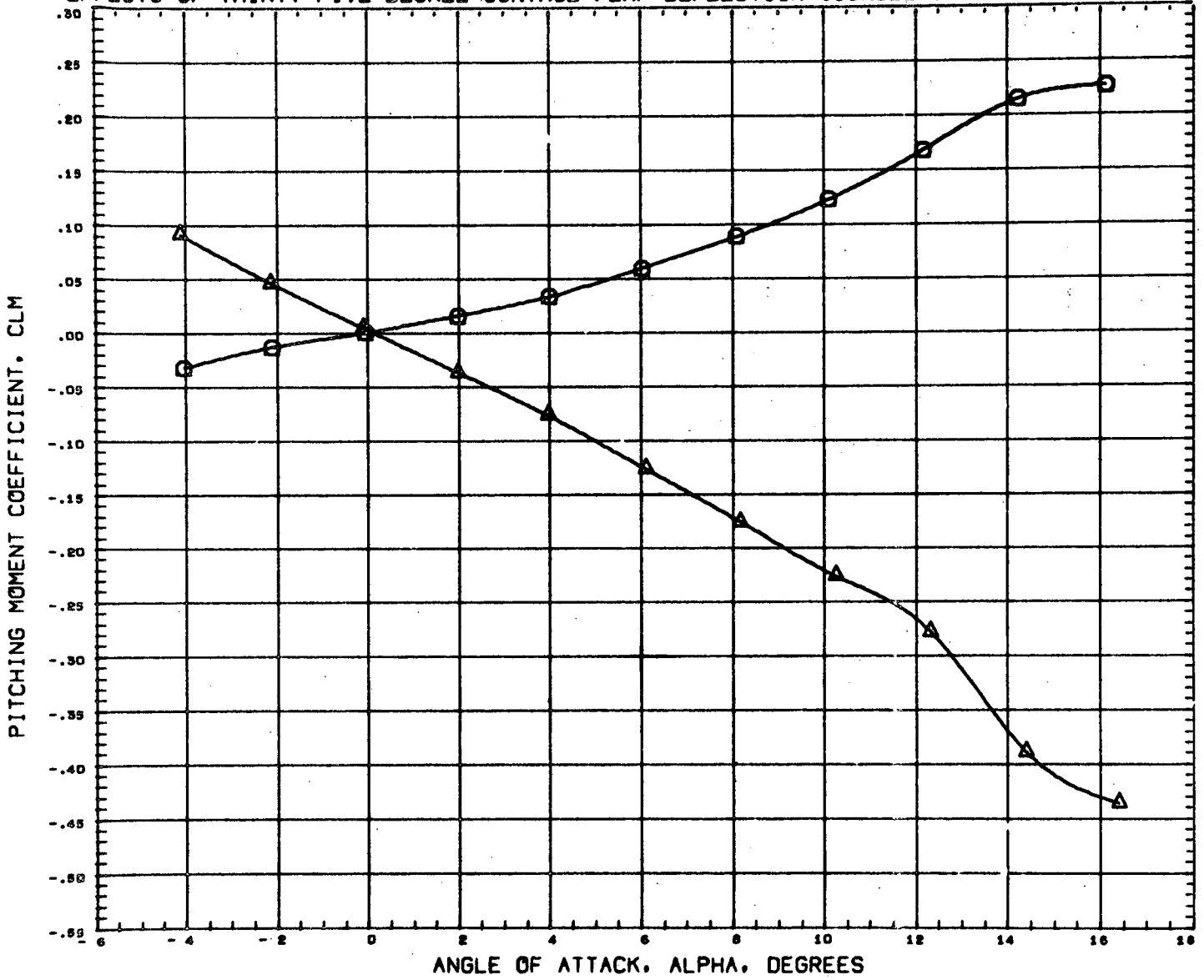
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(DS0110)	MSFC 512 GD/C .003366 BOOSTER 834R6	0.000	45.000			ORE 0.9350 80 IN.
(DS0010)	MSFC 512 GD/C .003366 BOOSTER 834R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(DS0060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	OREP 1.0910 INCHES
(DS0000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

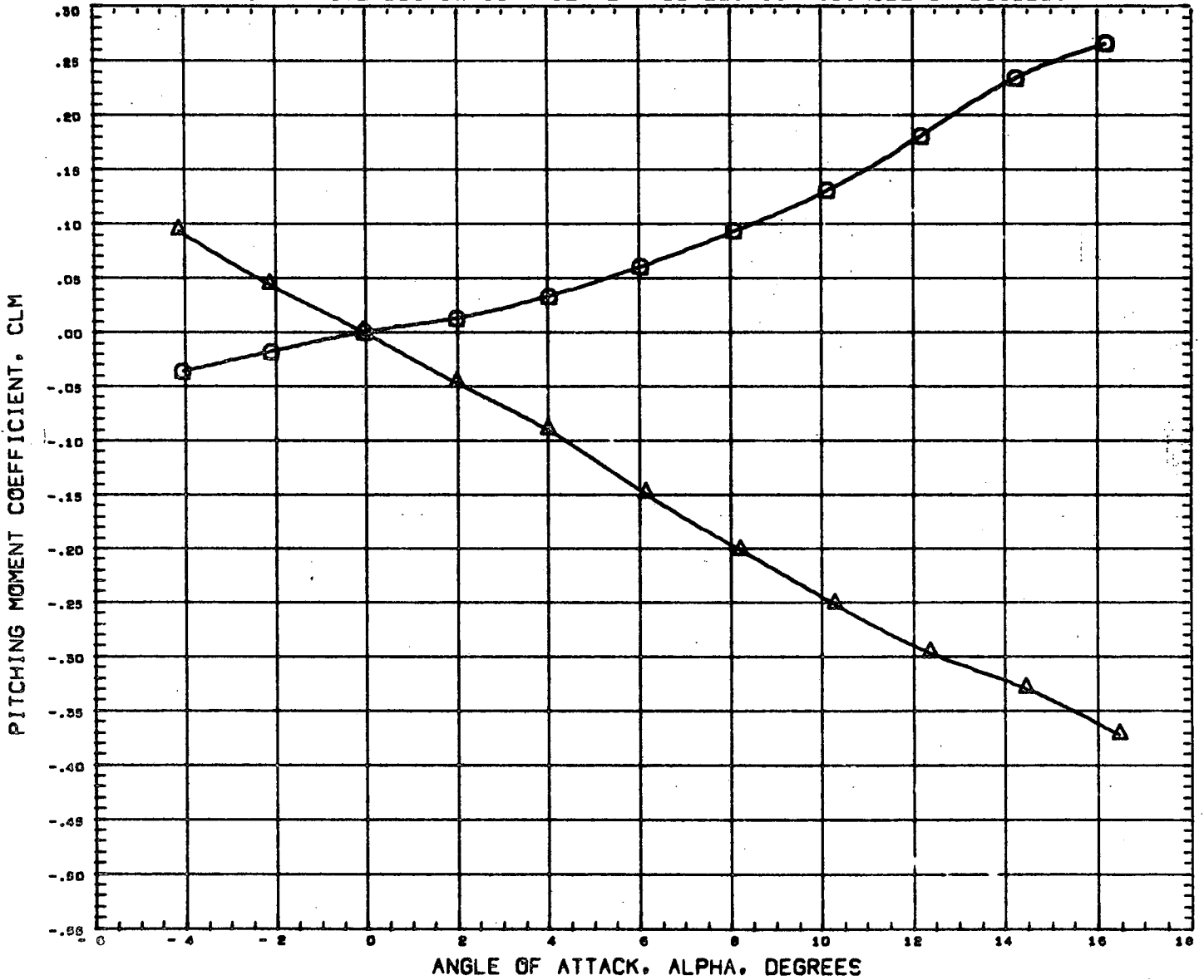
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(050110)	○	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 80. IN.
(050010)	△	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(050060)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF	1.0910 INCHES
(050090)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
							YMRP	0.0000 INCHES
							ZMRP	0.0000 INCHES
							SCALE	0.0034

MACH 1.100

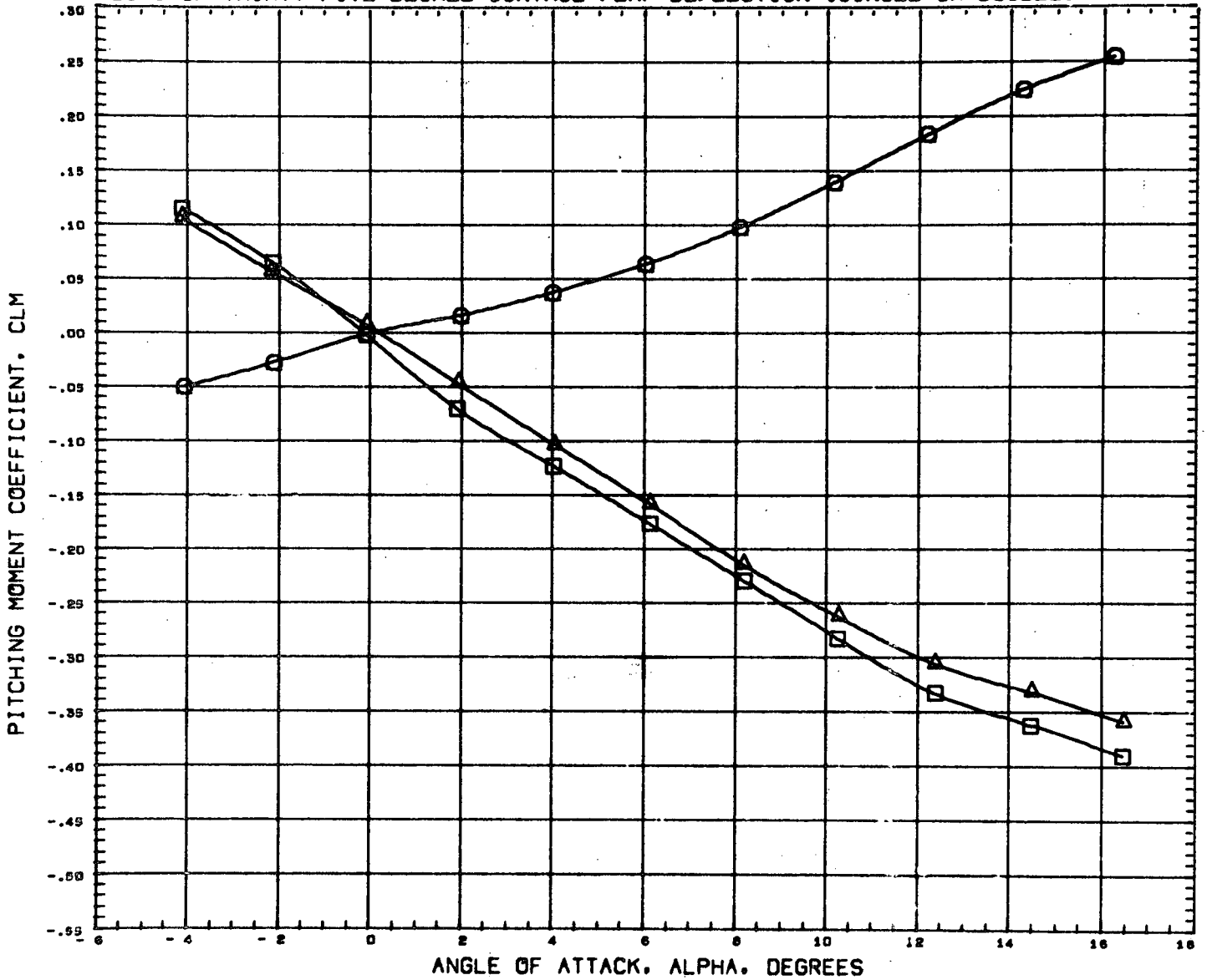
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(D50110)	MSFC 512 GD/C .003300 DOOSTER B34R6	0.000	45.000			SREF	0.9350 80.1N.
(D50010)	MSFC 512 GD/C .003300 DOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF	1.0910 INCHES
(D50000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.201

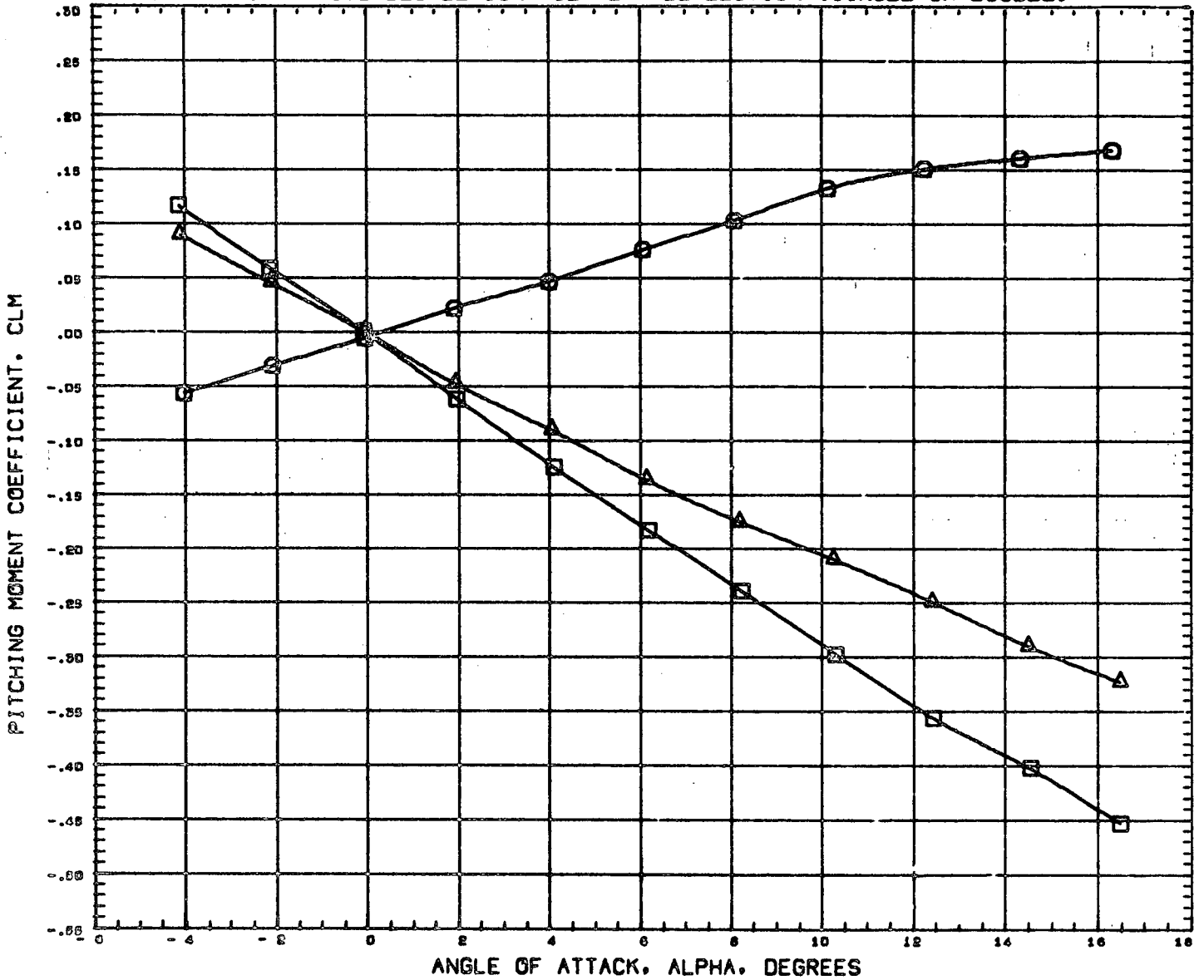
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIM00	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 30. IN.
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50000)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XNRF 3.7920 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 1.456

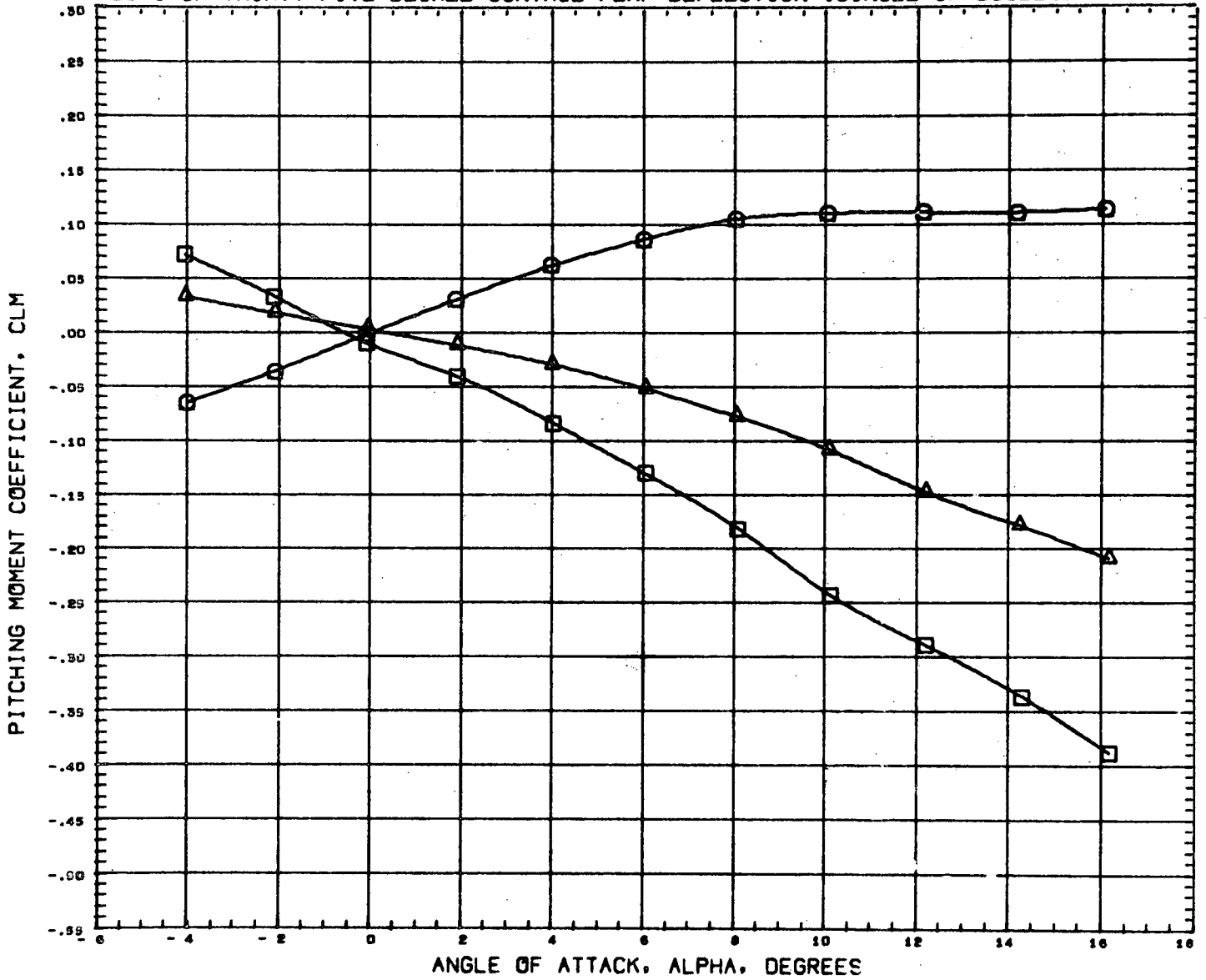
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(090110)	MSFC 912 GD/C .009300 DOOSTER B34R6	0.000	45.000	0.000	0.000	SR:F 0.9350 SQ. IN.
(090010)	MSFC 912 GD/C .009300 DOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(090060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(090000)	MSFC 912 GD/C .009366 DOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.860

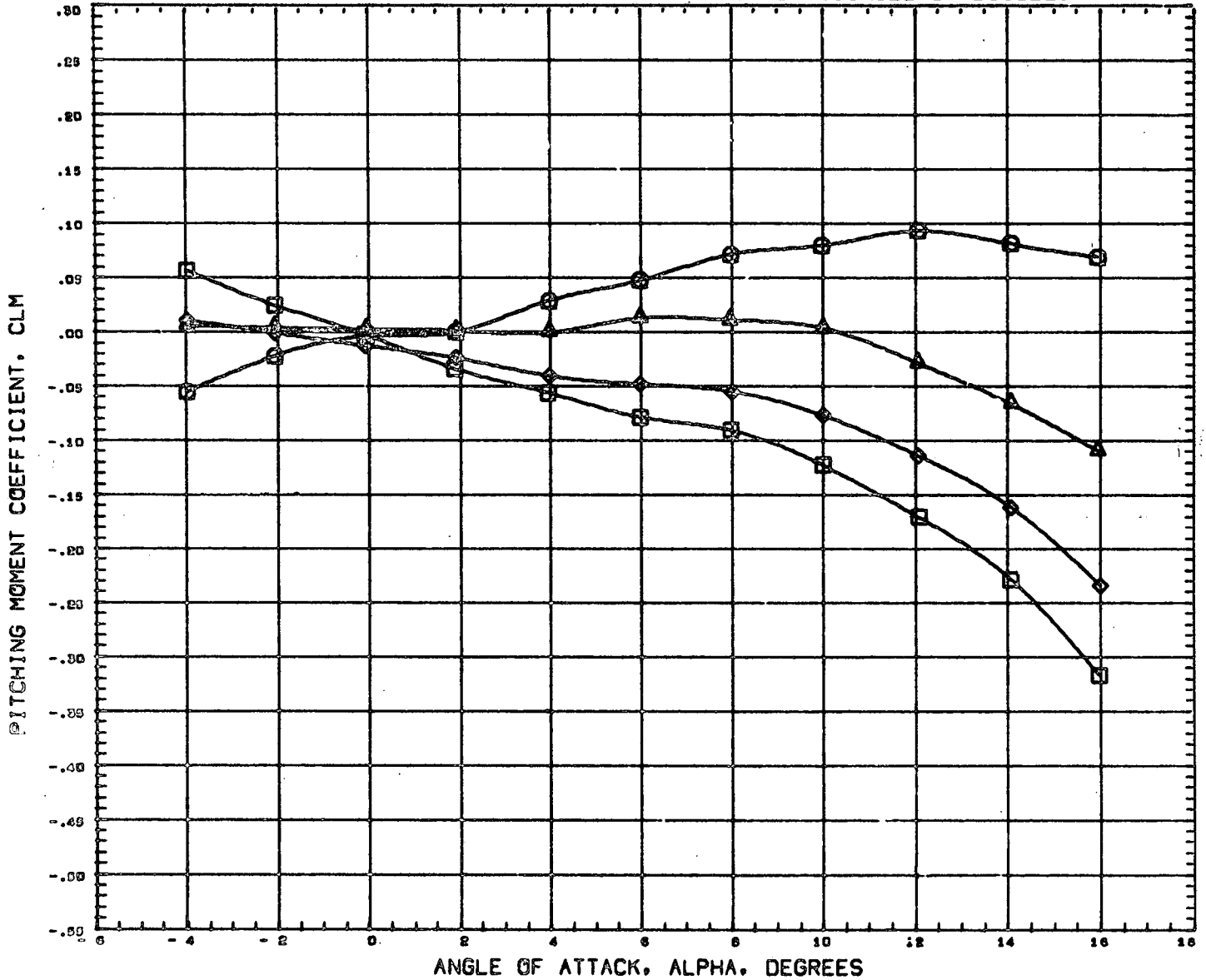
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIND	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SA CF 0.9350 80. IN.
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0010 INCHES
(D50090)	M8FC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.7411

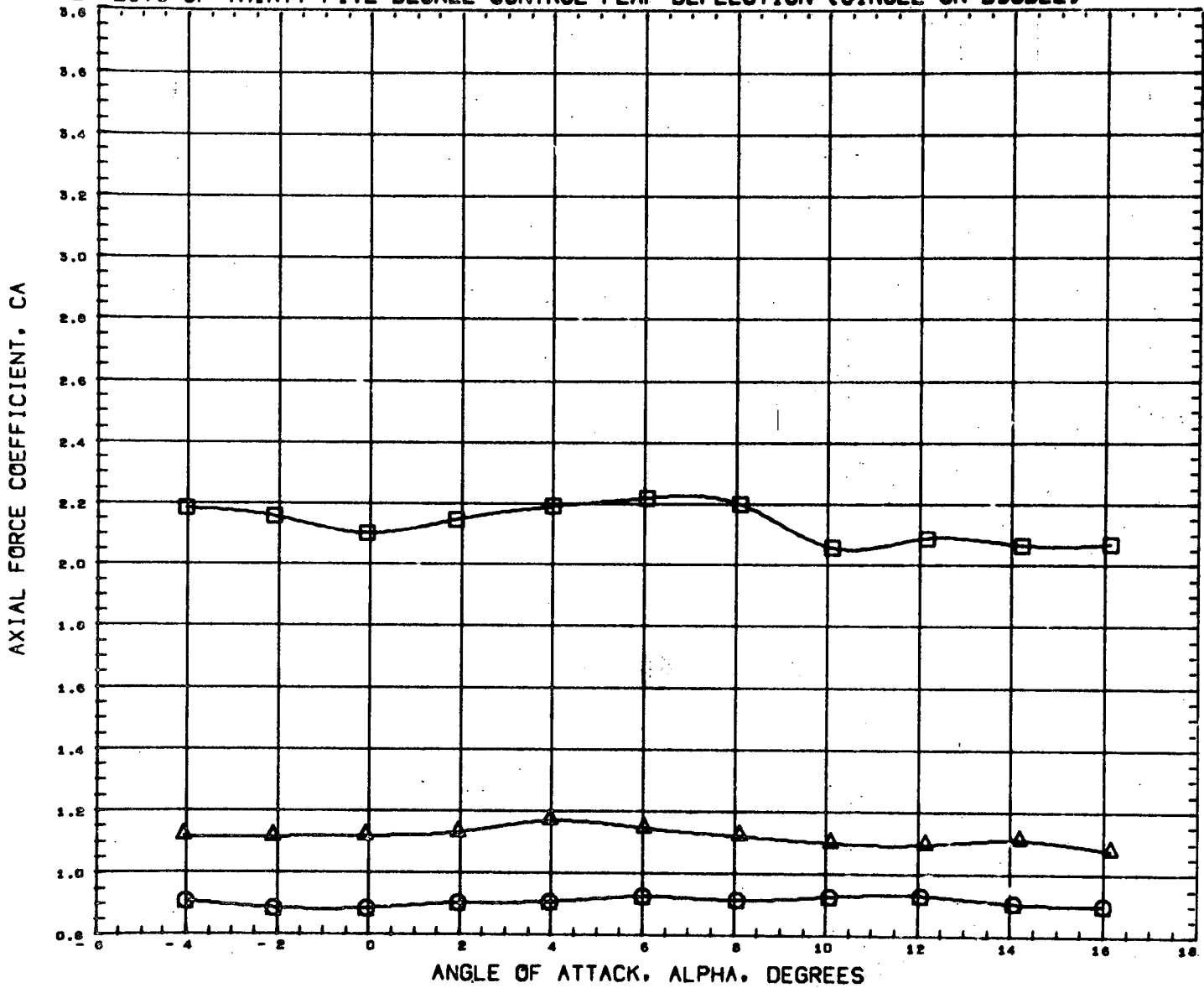
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(090110)	MBFC 512 6D/C .003300 BOOSTER	0.000	45.000	0.000	0.000	SRET 0.9350 90. IN.
(090010)	MBFC 512 6D/C .003300 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(090000)	MBFC 512 6D/C .003300 BOOSTER	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(090000)	MBFC 512 6D/C .003300 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

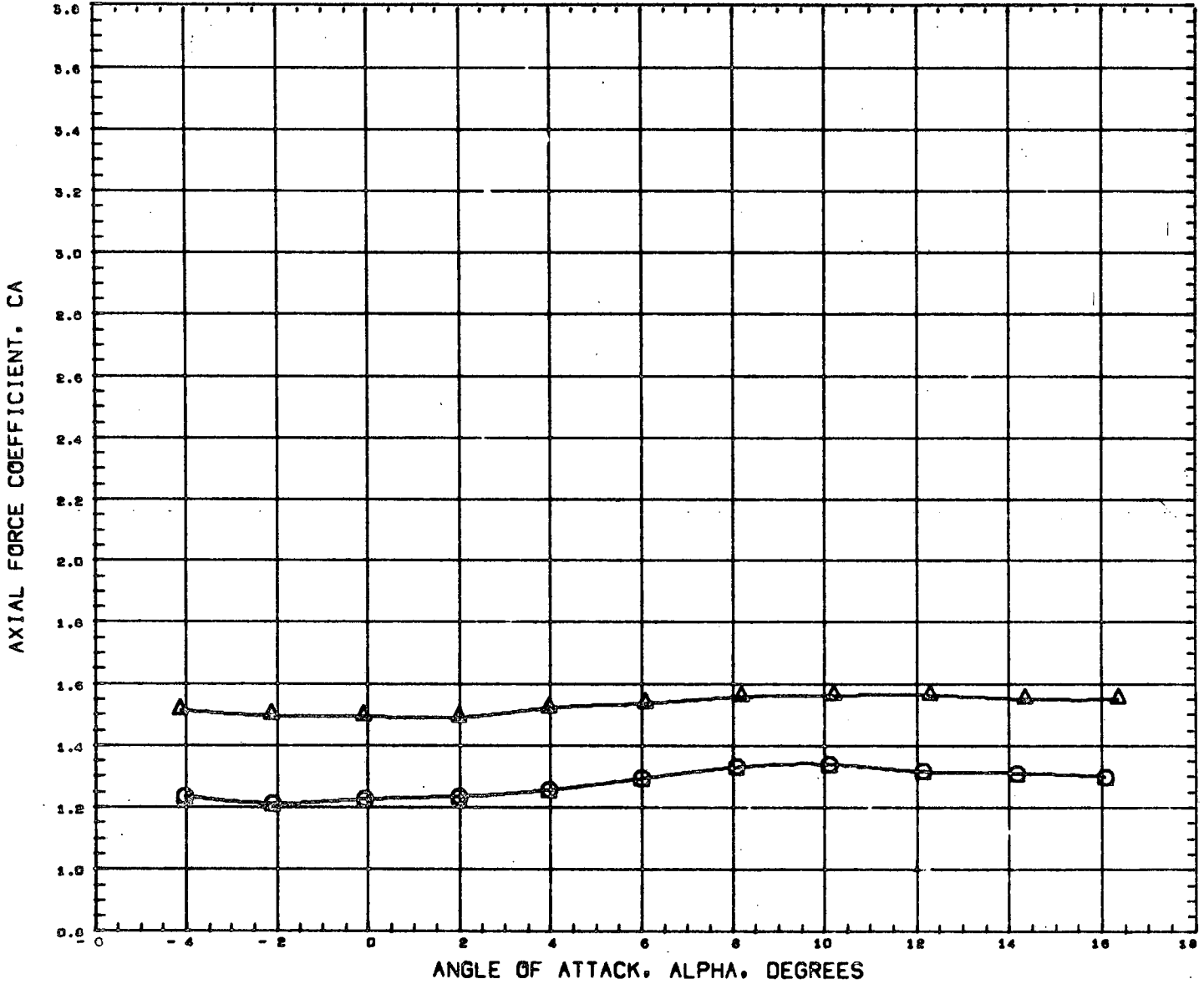
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION		
(D50310)	□	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRE	0.9350	80. IN.
(D50010)	△	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310	INCHES
(D50060)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF	1.0910	INCHES
(D50090)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP	3.7920	INCHES
							YMRP	0.0000	INCHES
							ZMRP	0.0000	INCHES
							SCALE	0.0034	

MACH 0.603

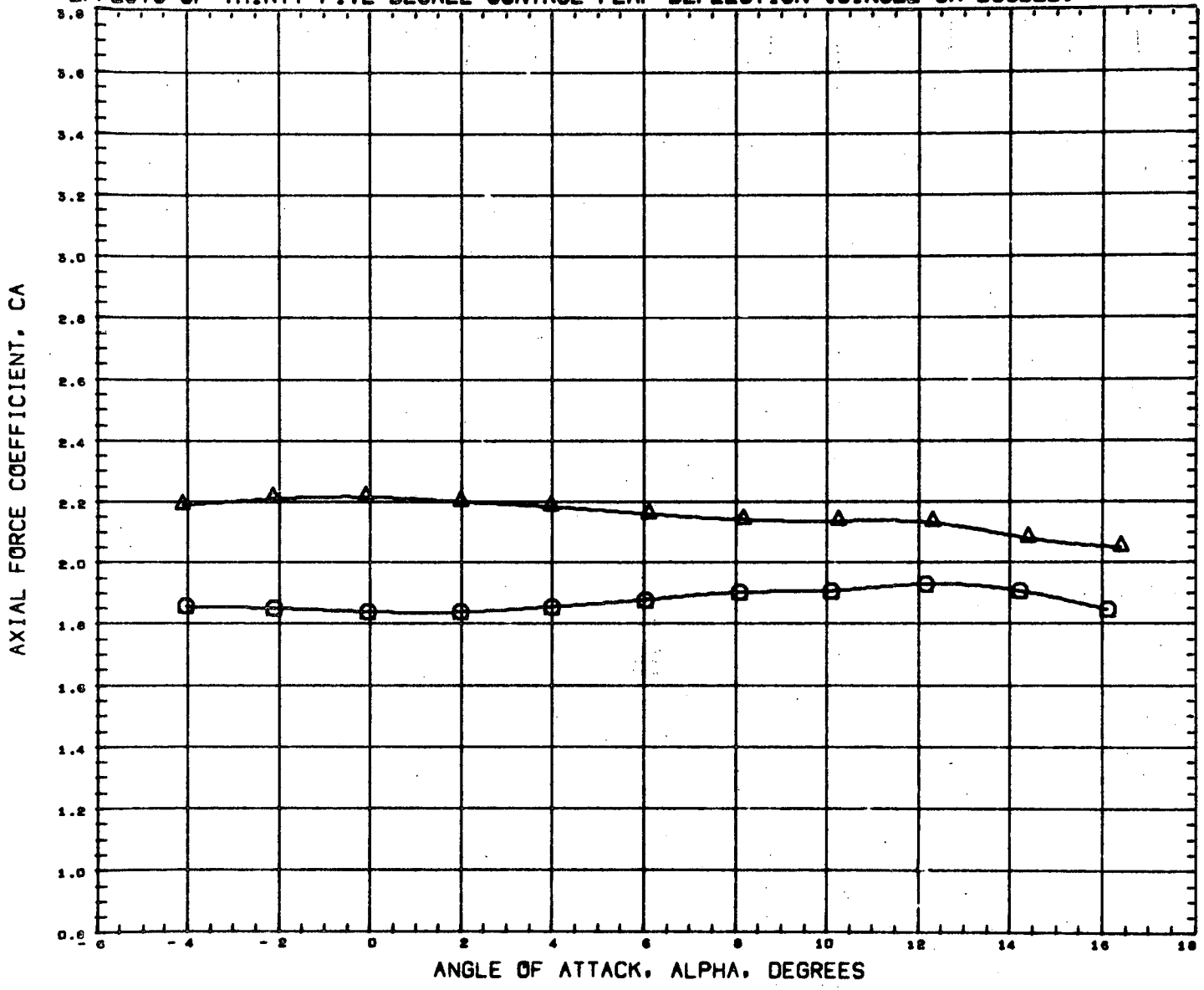
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003936 BOOSTER B34R6	0.000	45.000			SREF 0.9350 30. IN.
(D50010)	MSFC 512 GD/C .003936 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

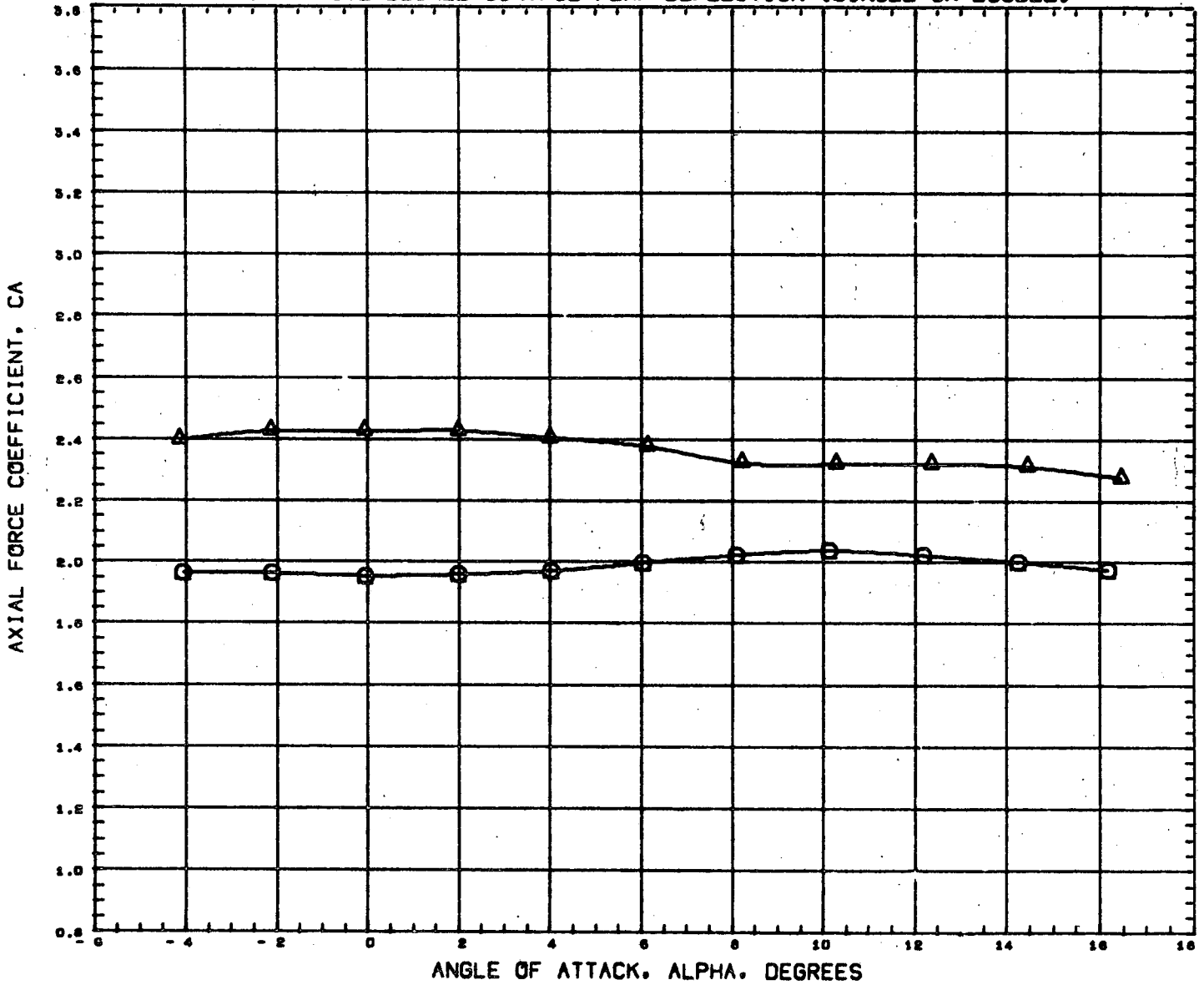
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 89. IN.
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

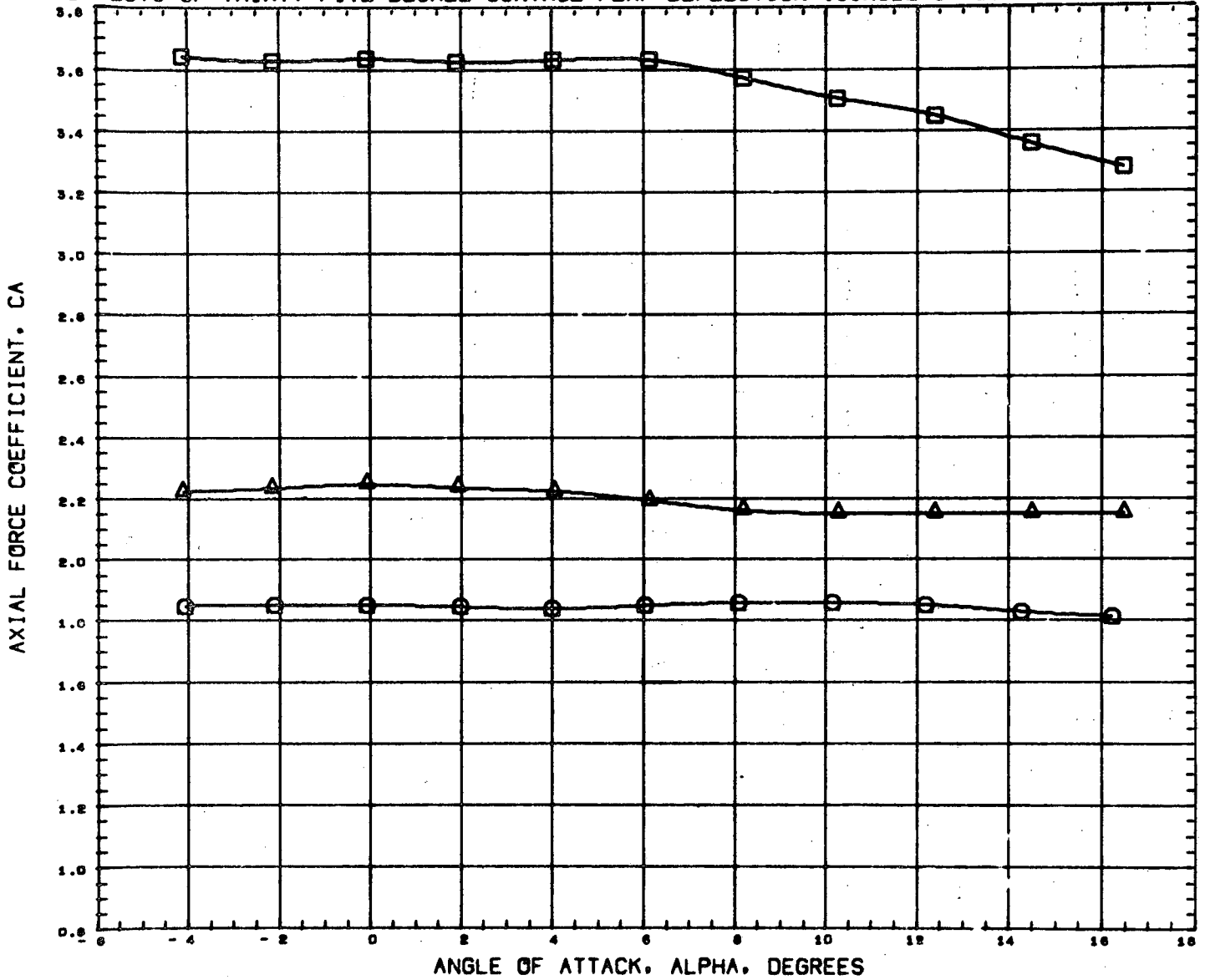
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003866 BOOSTER B34R6	0.000	45.000			SRFF 0.9350 89. IN.
(D50010)	MSFC 512 GD/C .003866 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

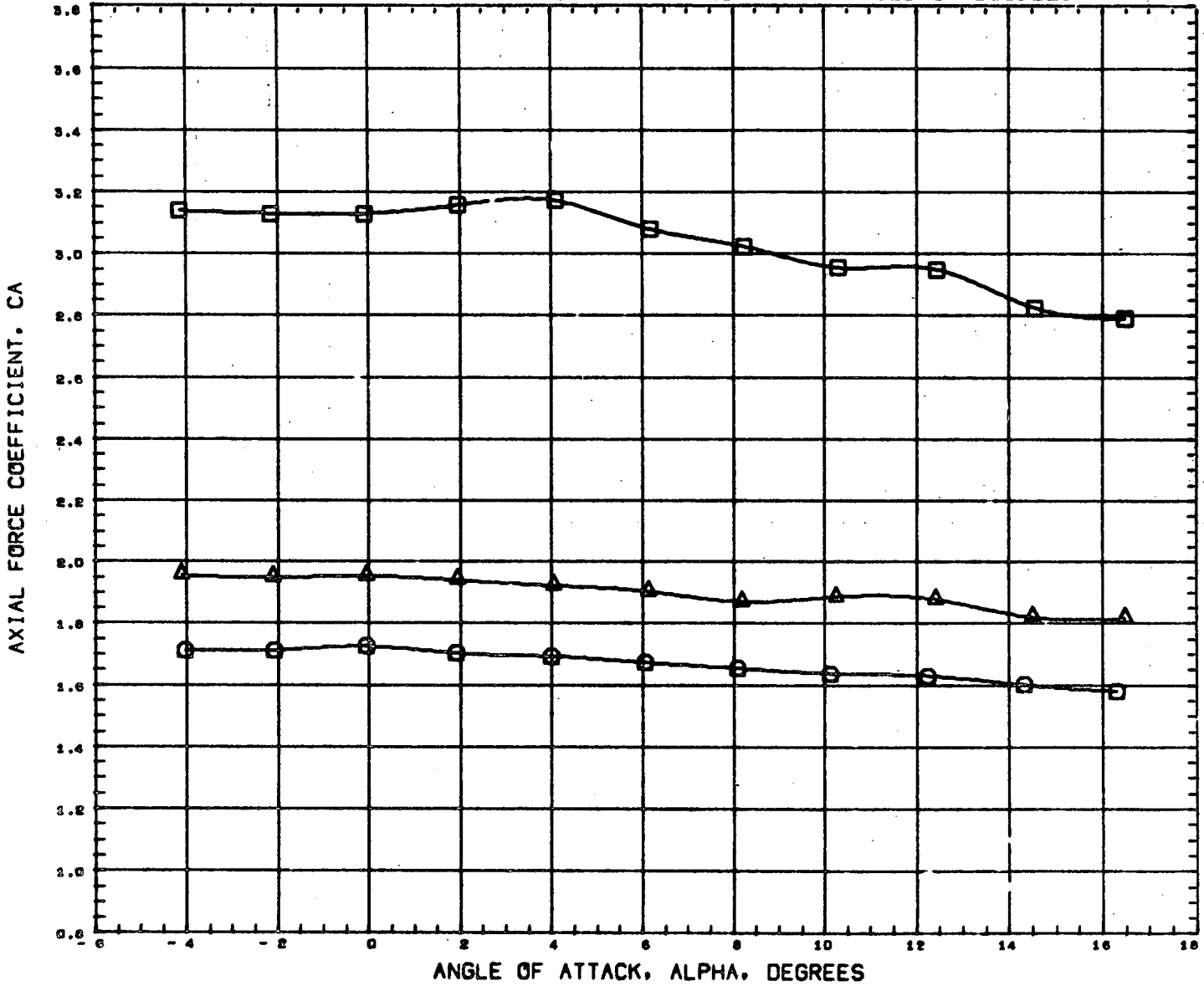
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	○	M8FC 512 6D/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D50010)	△	M8FC 512 6D/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	□	M8FC 512 6D/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.450

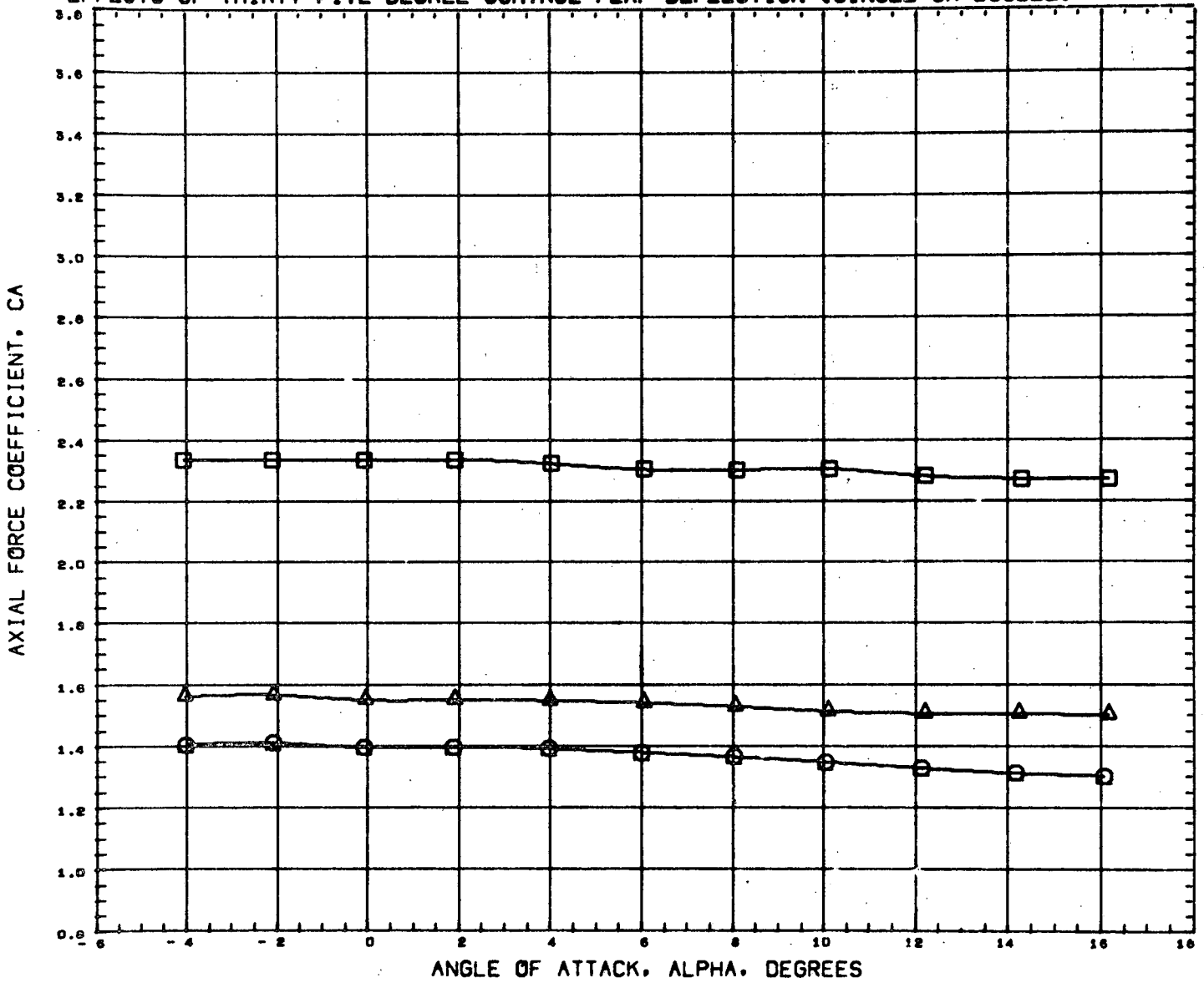
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(090110)	MSFC 512 GD/C .003306 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(090010)	MSFC 512 GD/C .003306 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(090060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(090090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.866

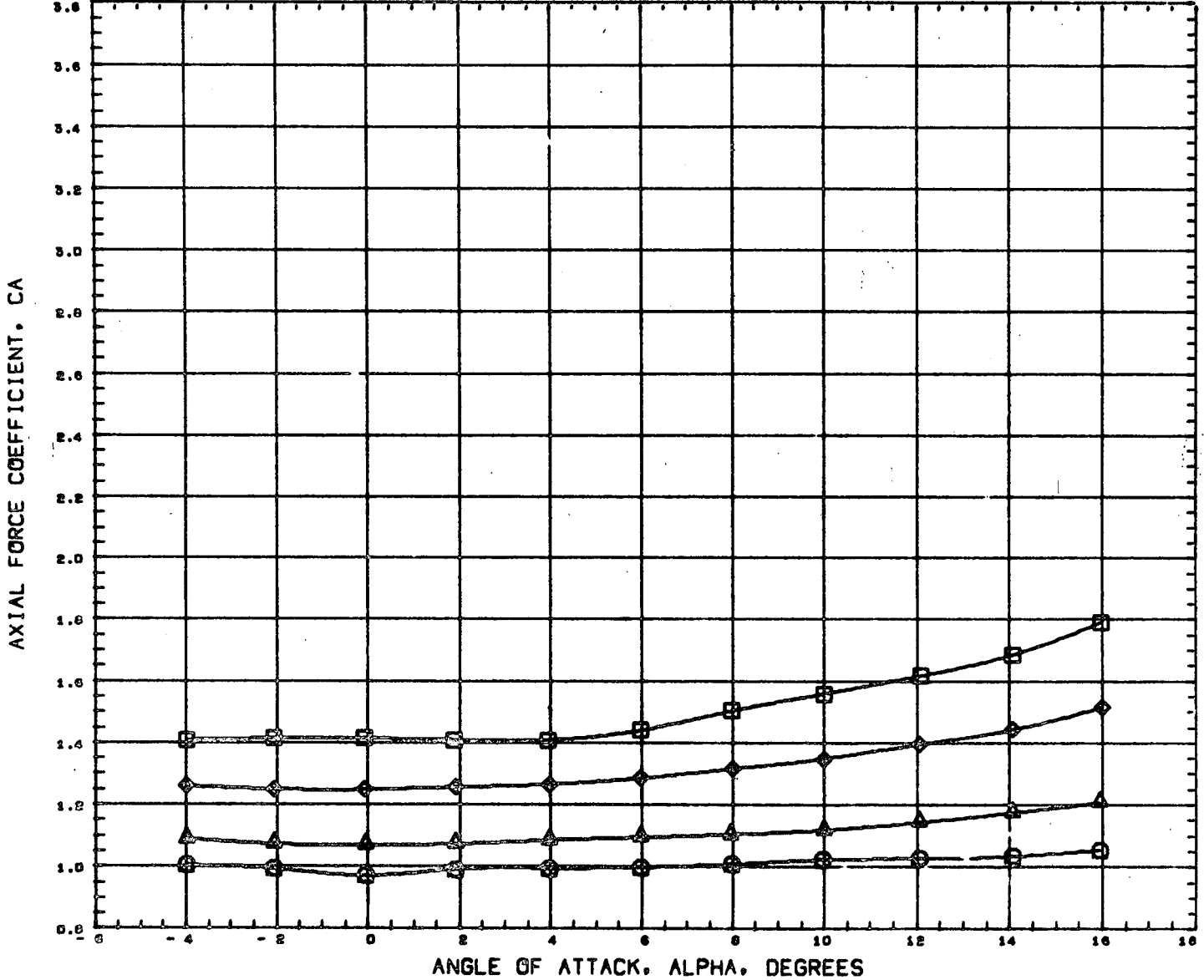
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SR F 0.9350 80. IN.
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XHRF 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.74C

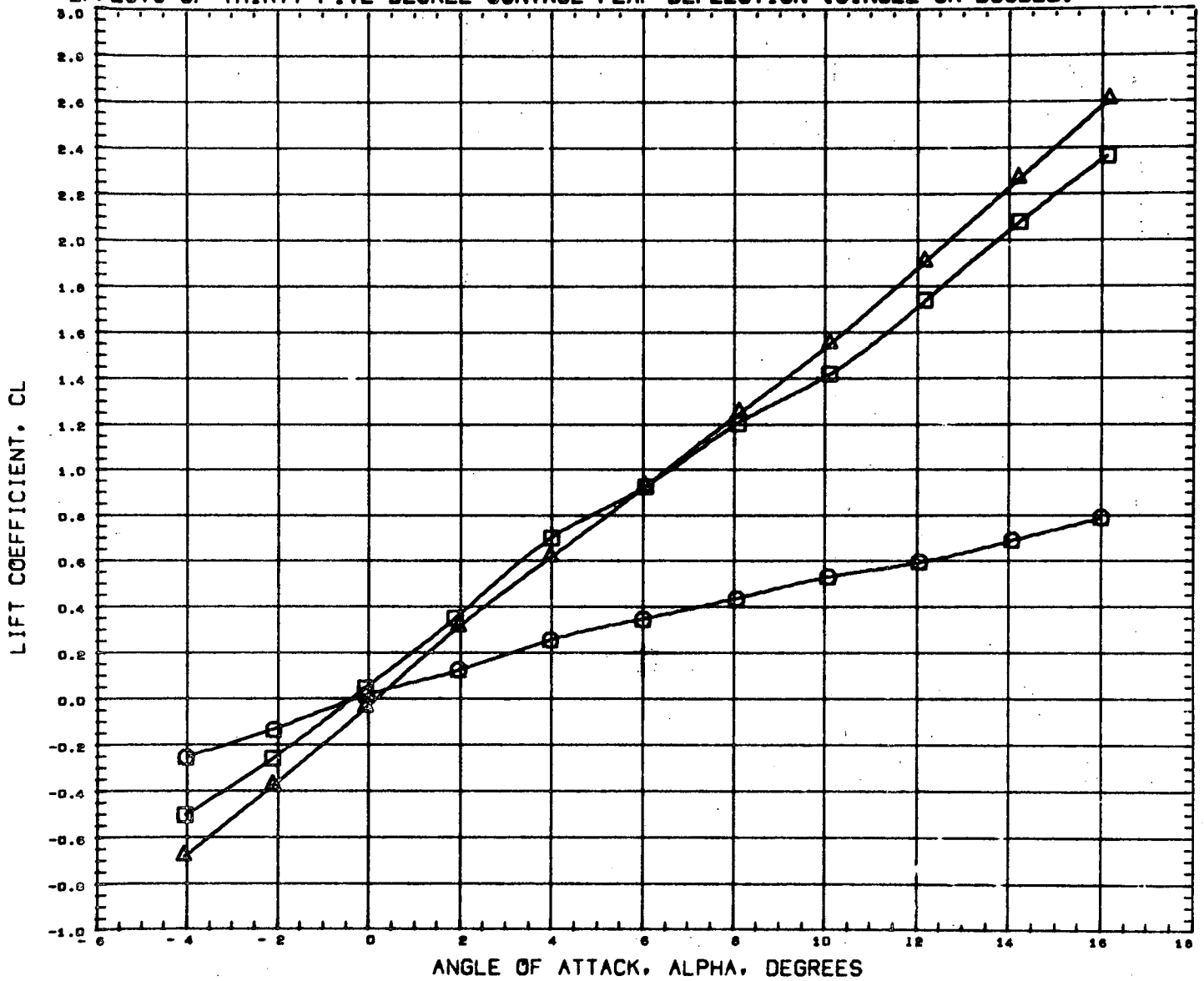
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	NSFC 512 GD/C .003900 BOOSTER B34R6	0.000	45.000			SRE 0.9350 80. IN.
(D50010)	NSFC 512 GD/C .003900 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	NSFC 512 GD/C .003900 BOOSTER B34R6T14	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	NSFC 512 GD/C .003900 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 4.959

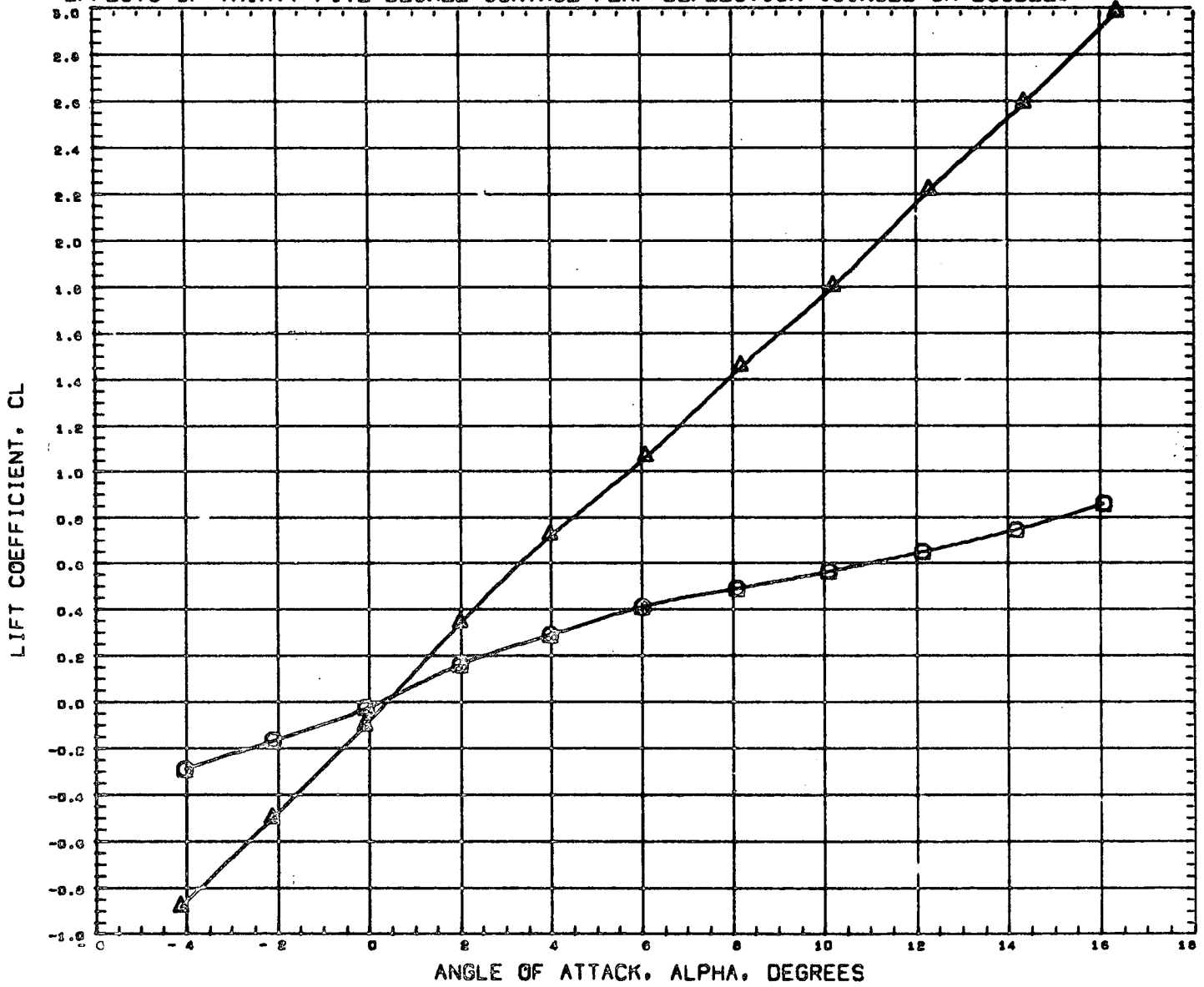
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003566 BOOSTER B34R6	0.000	45.000			SRLE 0.9350 SQ. IN.
(D50010)	MSFC 512 GD/C .003566 BOOSTER B34R6T10	0.000	0.000	0.500	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003566 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XHRF 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0054

MACH 0.603

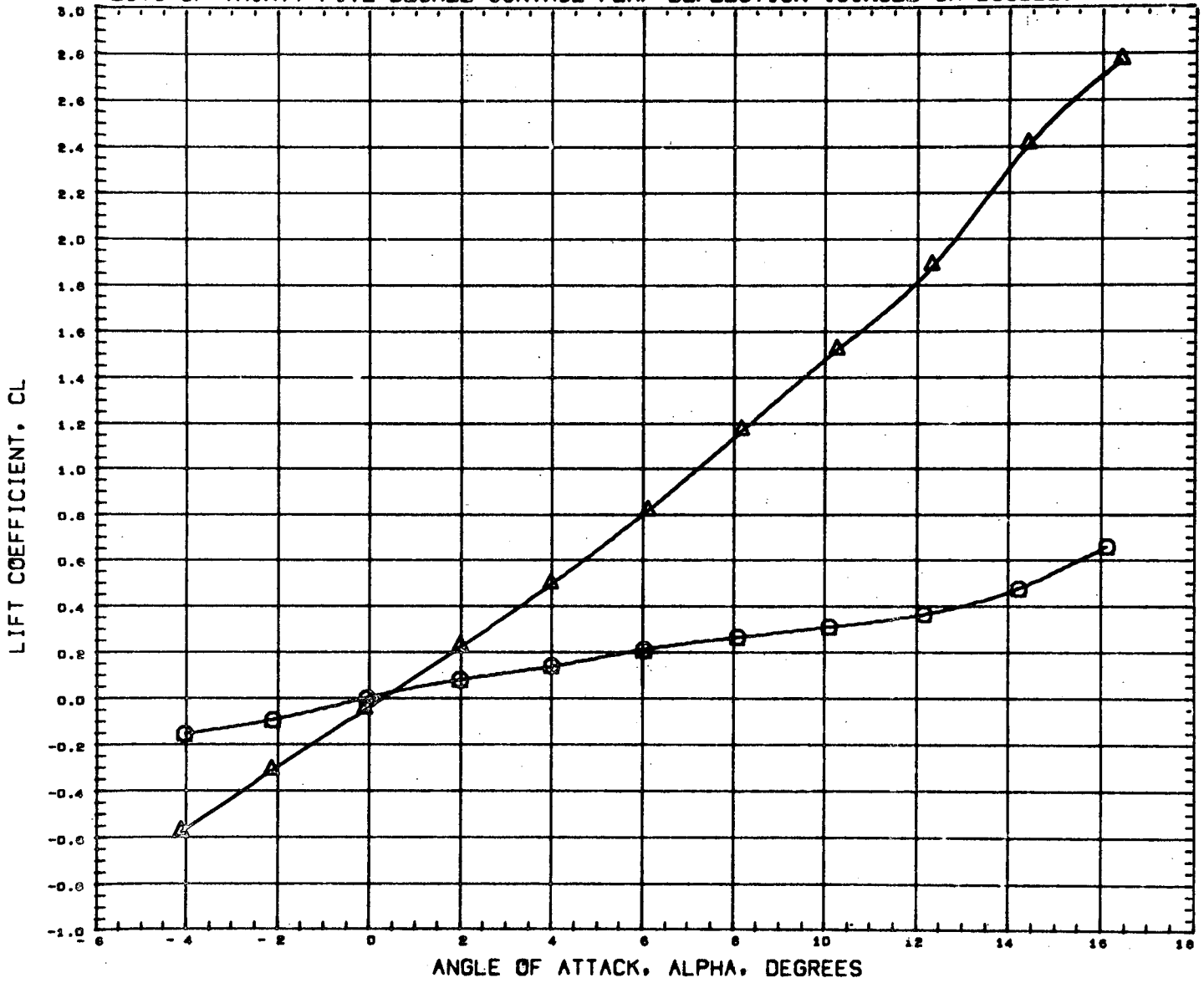
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(090110)	WPC 512 GD/C .003500 BOOSTER B34R6	0.000	45.000			SRLF 0.9350 SQ. IN.
(090010)	WPC 512 GD/C .003500 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(090000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(080000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	-35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

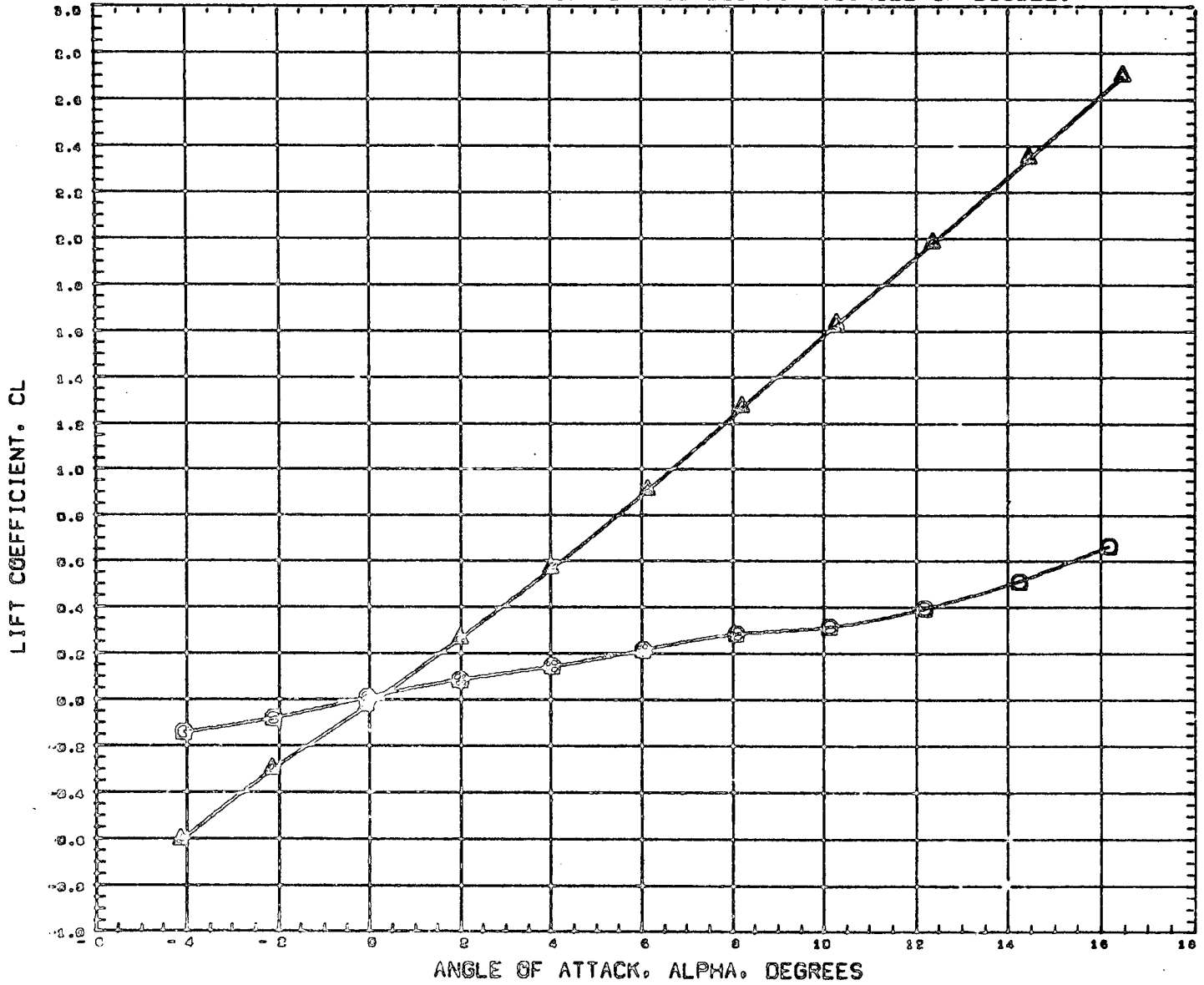
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SRE 0.9390 SQ. IN.
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

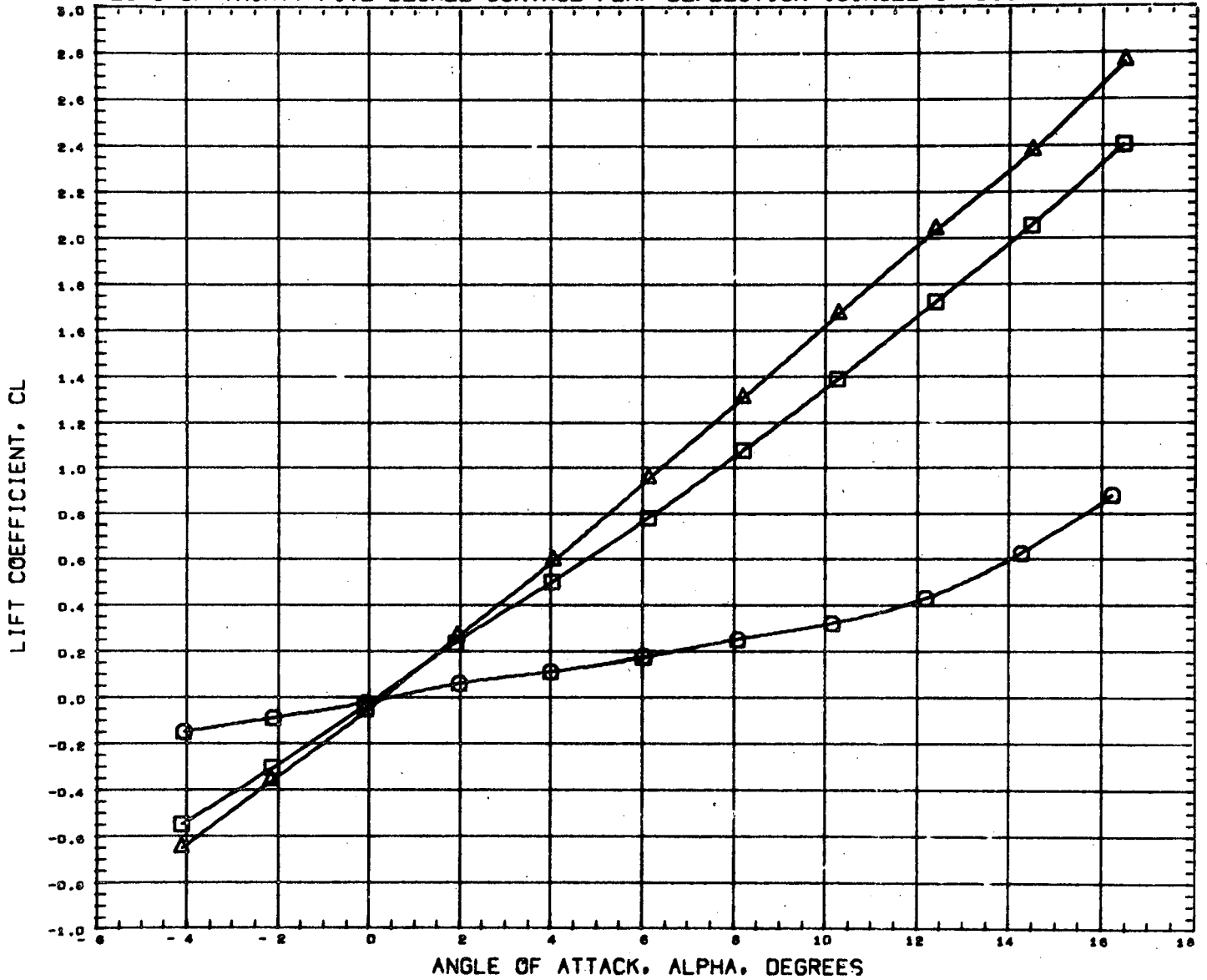
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(090010)	WPC 312 60/C .028000 DC001R 034R0	0.000	49.000	0.000	0.000	SREF 0.9350 SQ. IN.
(090020)	WPC 312 60/C .028000 DC001R 034R0T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(090000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	95.000	0.000	BREF 1.0910 INCHES
(090000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	95.000	95.000	XWRP 3.7920 INCHES
						YWRP 0.0000 INCHES
						ZWRP 0.0000 INCHES
						SCALE 0.0094

WACH 5.201

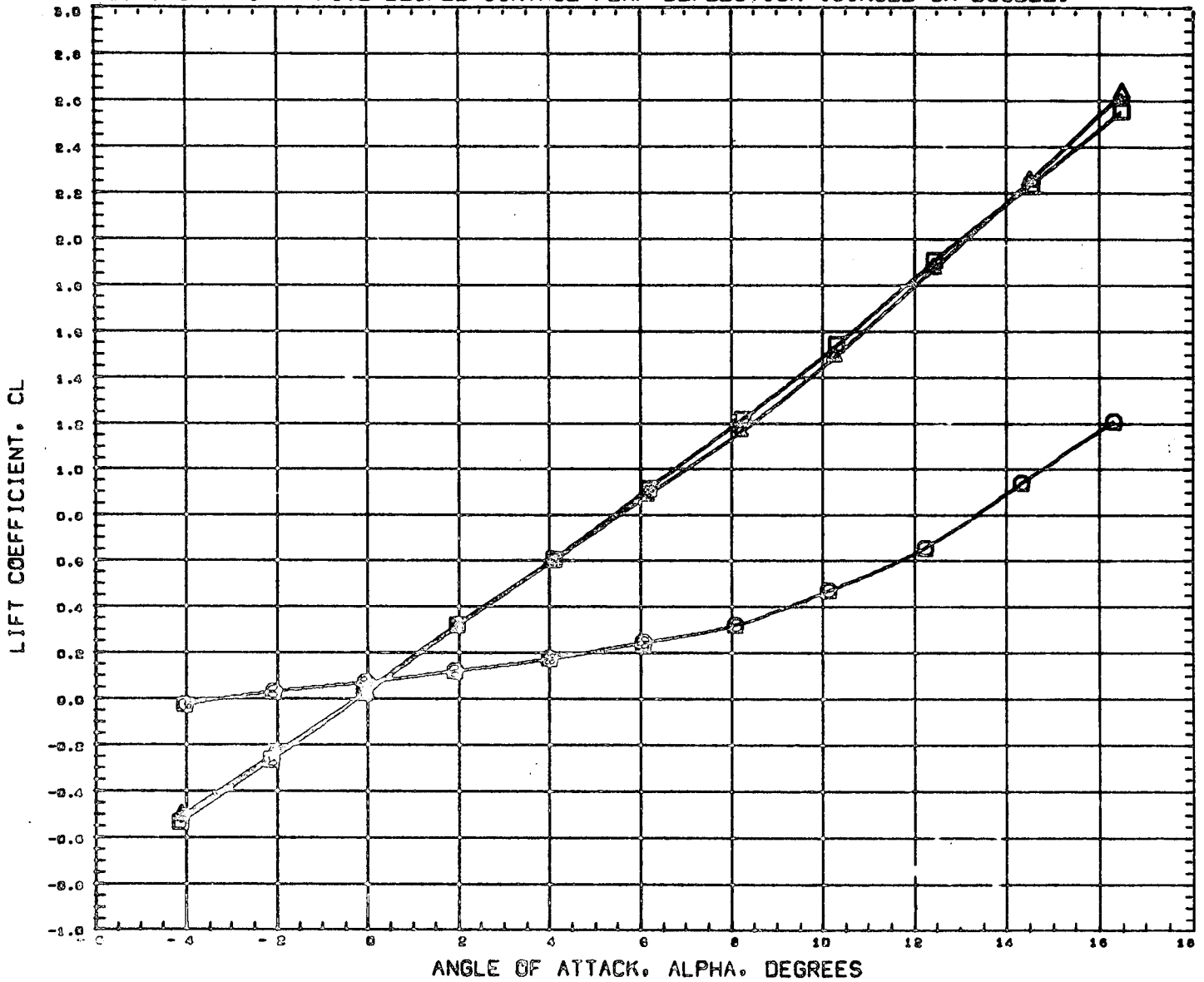
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D90110)	MSFC 512 GD/C .003366 BOOSTER 834R6	0.000	45.000			S.EF 0.9350 89. IN.
(D90010)	MSFC 512 GD/C .003366 BOOSTER 834R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D90090)	MSFC 512 GD/C .003366 BOOSTER 834R6T17	0.000	0.000	35.000	35.000	AMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.456

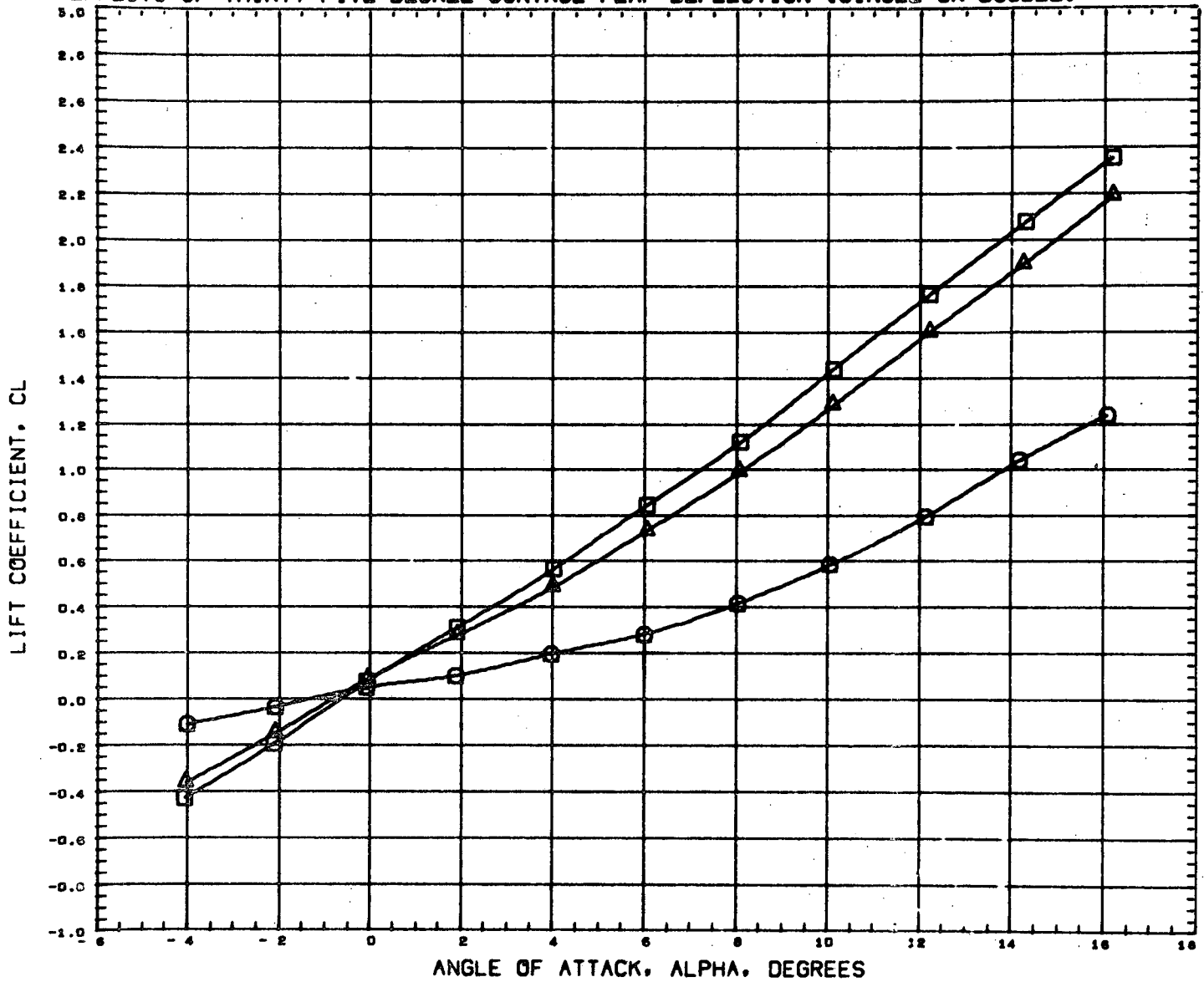
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(D90110)	H8FC 912 6D/C .003900 BOOSTER B34R6	0.000	45.000			SR..F 0.9350 SQ. IN.
(D90010)	H8FC 912 6D/C .003900 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D90000)	H8FC 912 6D/C .003900 BOOSTER B34R0T1Y	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.600

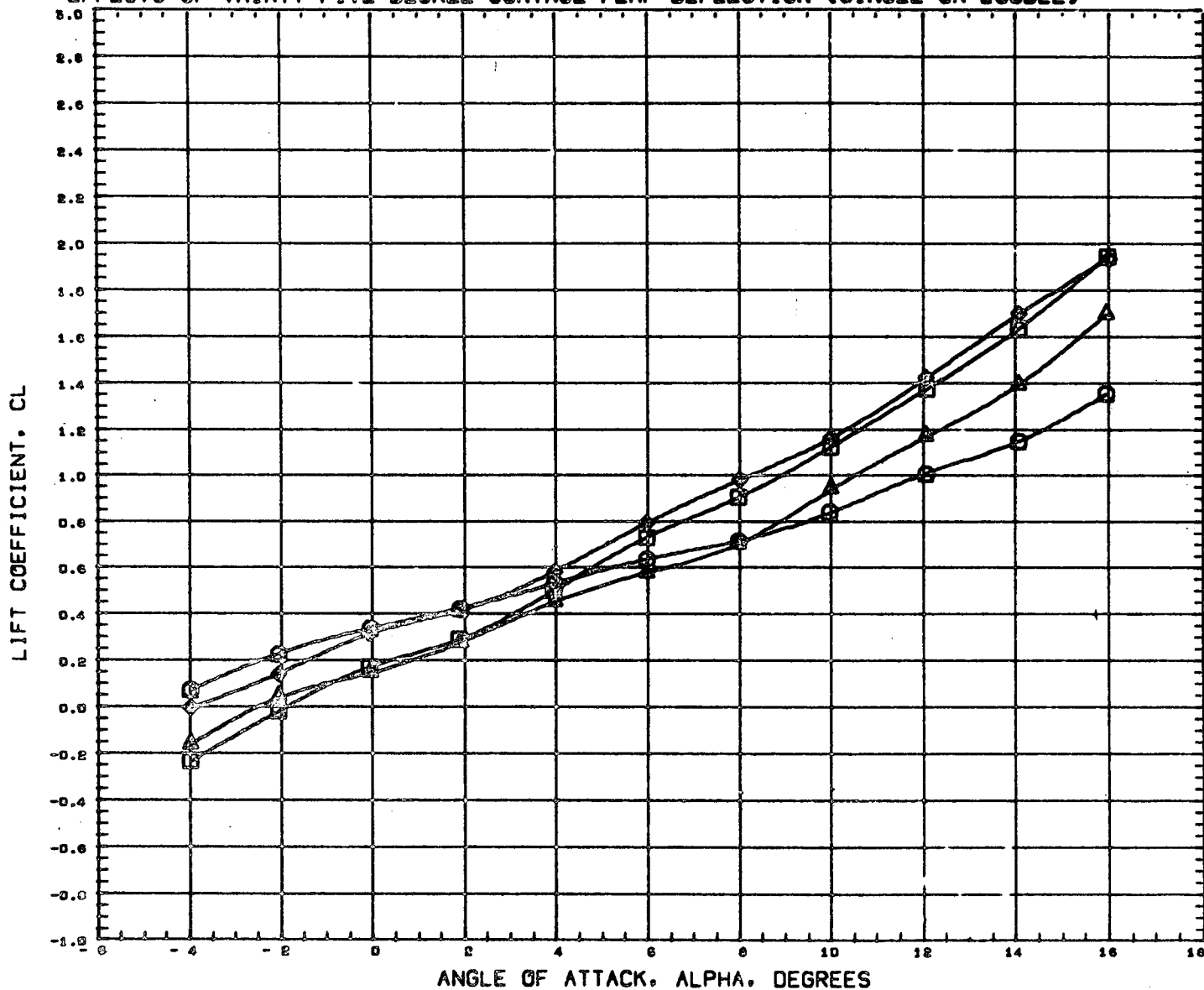
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	○	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D50010)	△	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50000)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XNRP 3.7920 INCHES YNRP 0.0000 INCHES ZNRP 0.0000 INCHES SCALE 0.0034

MACH 2.740

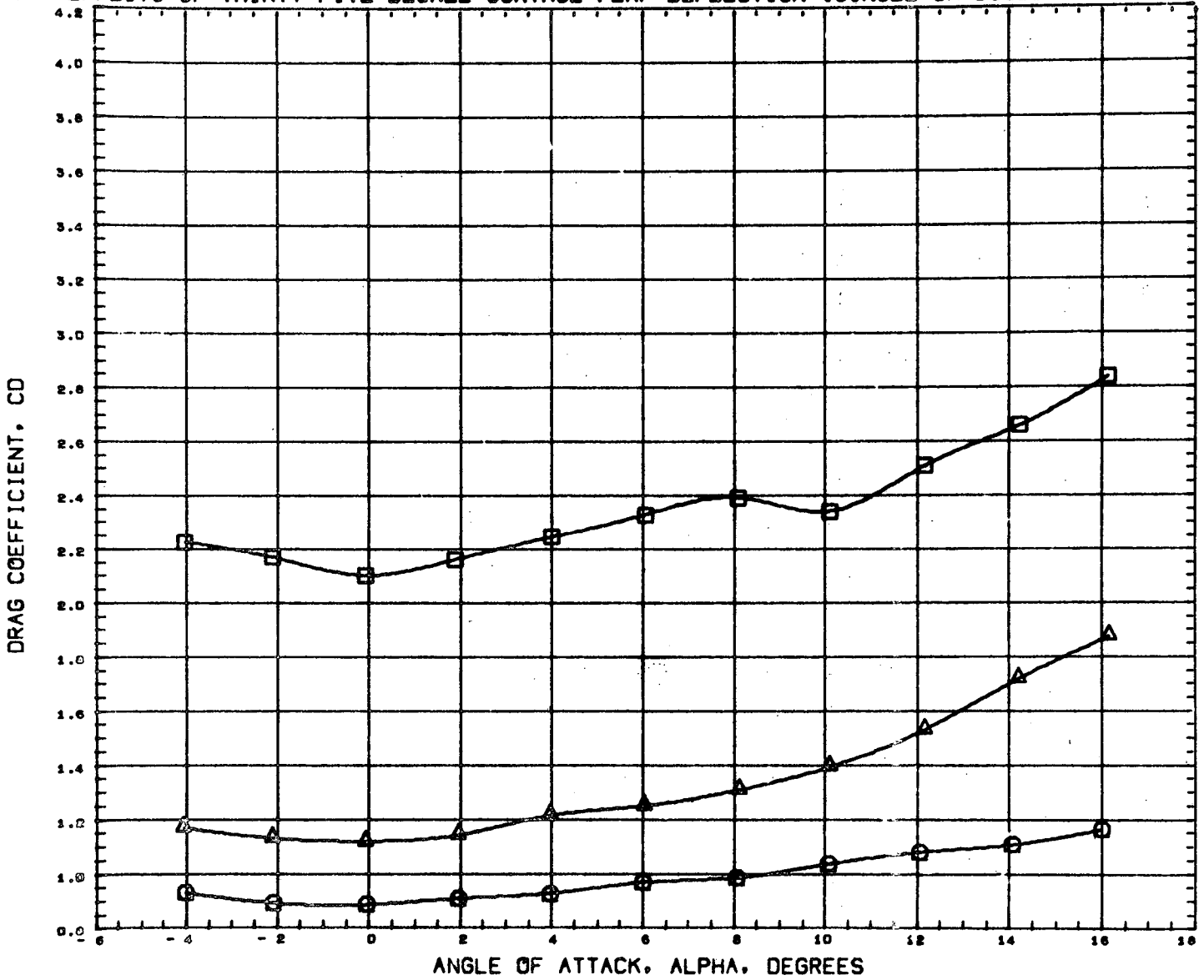
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050110)	MSFC 512 6D/C .003300 BOOSTER	0.000	45.000			SRFF 0.9350 SQ. IN.
(050080)	MSFC 512 6D/C .003300 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(050060)	MSFC 512 6D/C .003300 BOOSTER	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(050090)	MSFC 512 6D/C .003300 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

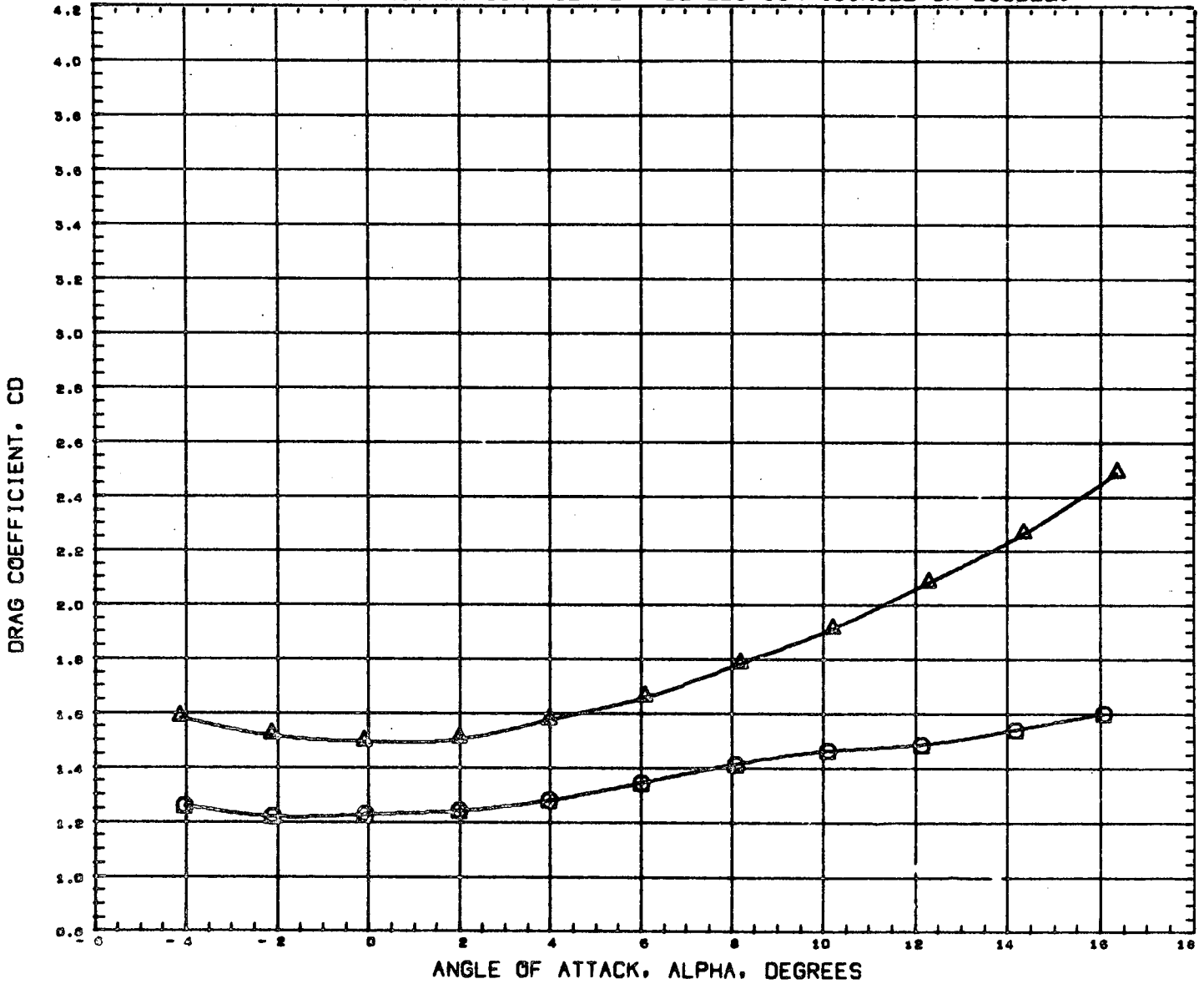
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	○	MSFC 512 GD/C .00386 BOOSTER B34R6	0.000	45.000			SRE 0.9350 SQ. IN.
(D50010)	△	MSFC 512 GD/C .00386 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	□	MSFC 512 GD/C .00386 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 0.603

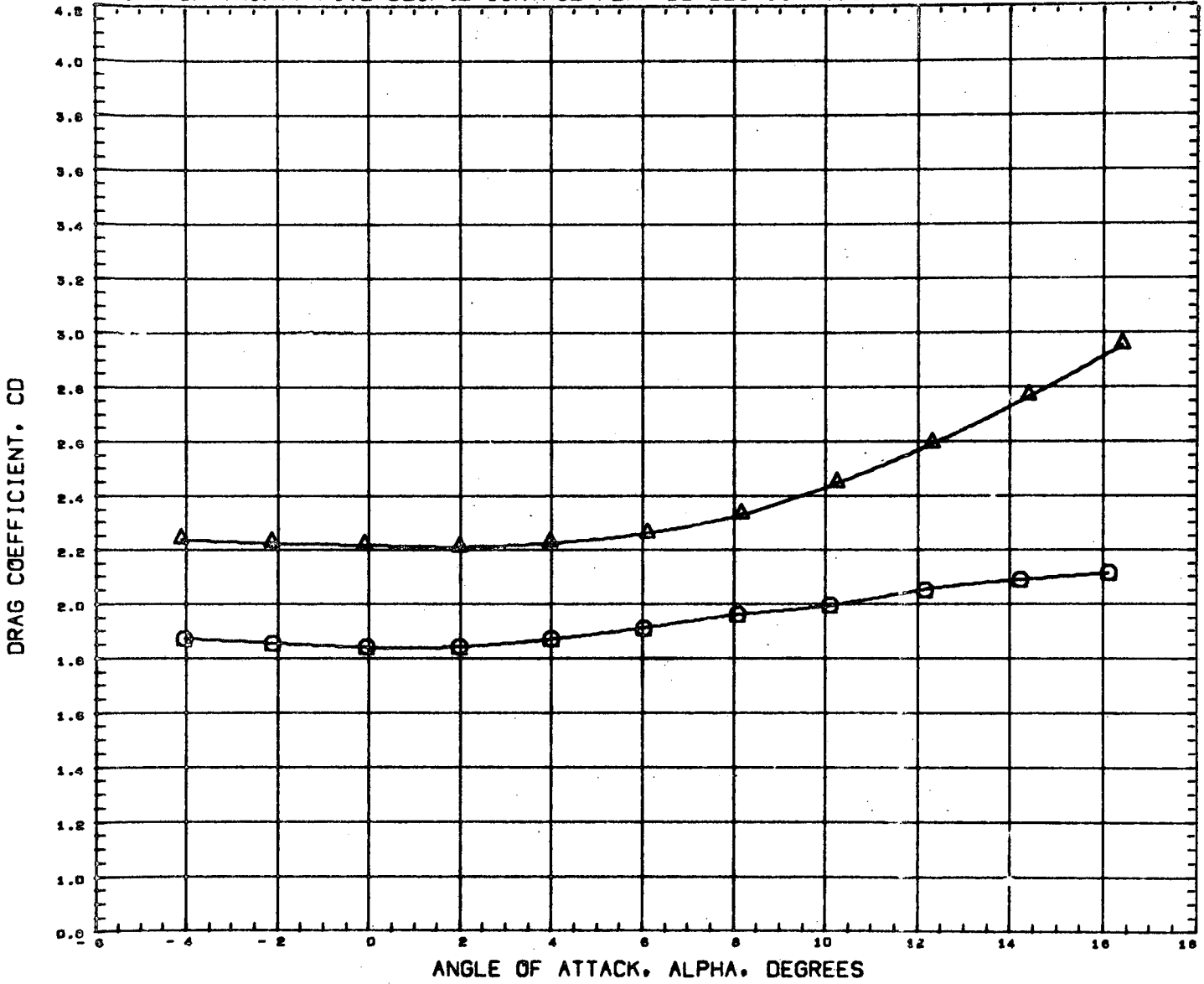
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIWD	LFLAP	RFLAP	REFERENCE INFORMATION
(DS0110)	WBFC 512 GD/C .003886 DOOSTER B34R6	0.000	45.000			SRLP 0.9350 SQ. IN.
(DS0010)	WBFC 512 GD/C .003886 DOOSTER B34R6T10	0.000	0.000			LREF 6.2310 INCHES
(DS0060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(DS0090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.800

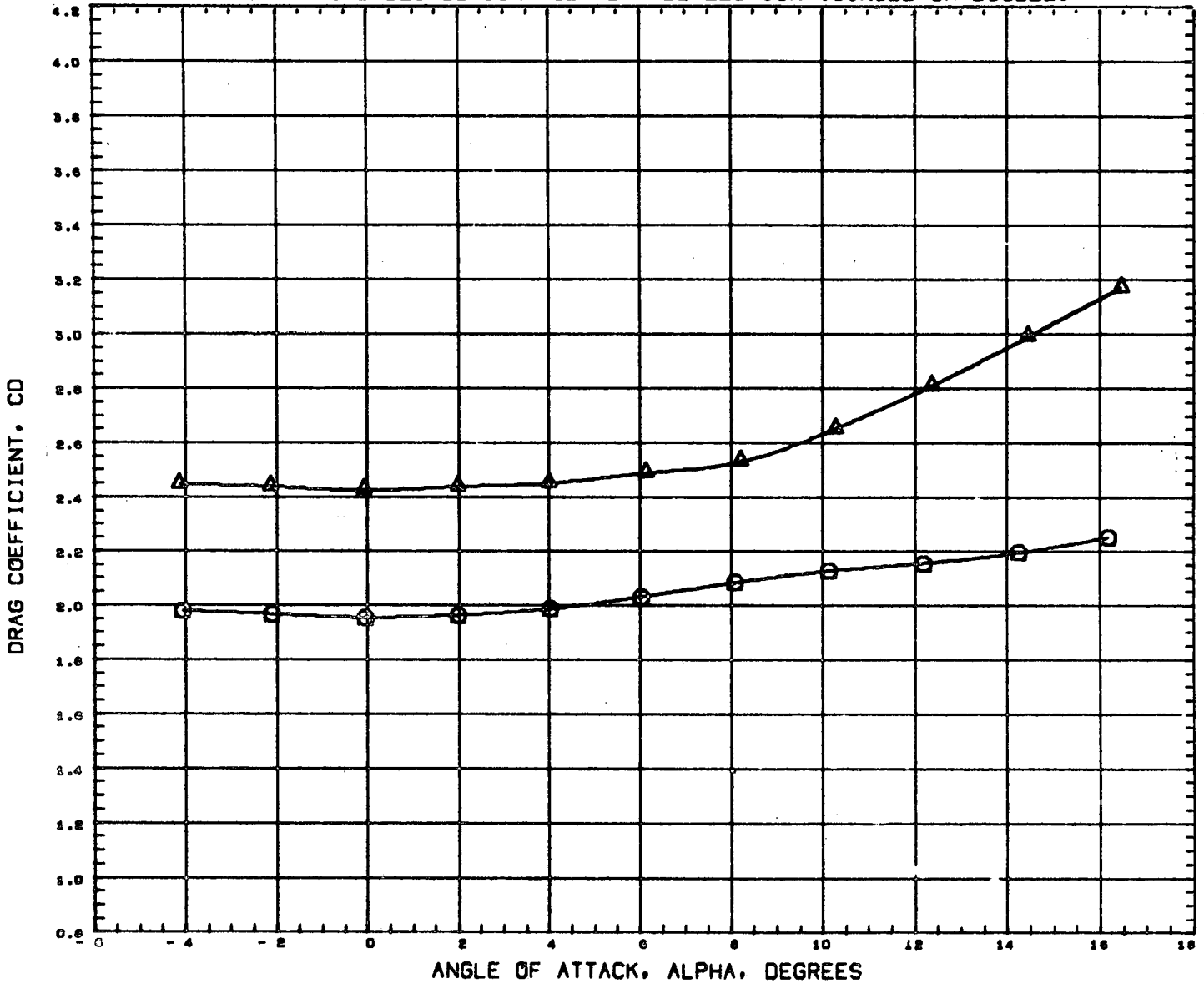
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D5D110)	MSFC 512 GD/C .00386 BOOSTER B34R6	0.000	45.000			SRE: 0.9350 SQ. IN.
(D5D010)	MSFC 512 GD/C .00386 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF: 6.2310 INCHES
(D5D060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF: 1.0910 INCHES
(D5D080)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP: 3.7920 INCHES
						YMRP: 0.0000 INCHES
						ZMRP: 0.0000 INCHES
						SCALE: 0.0034

MACH 1.100

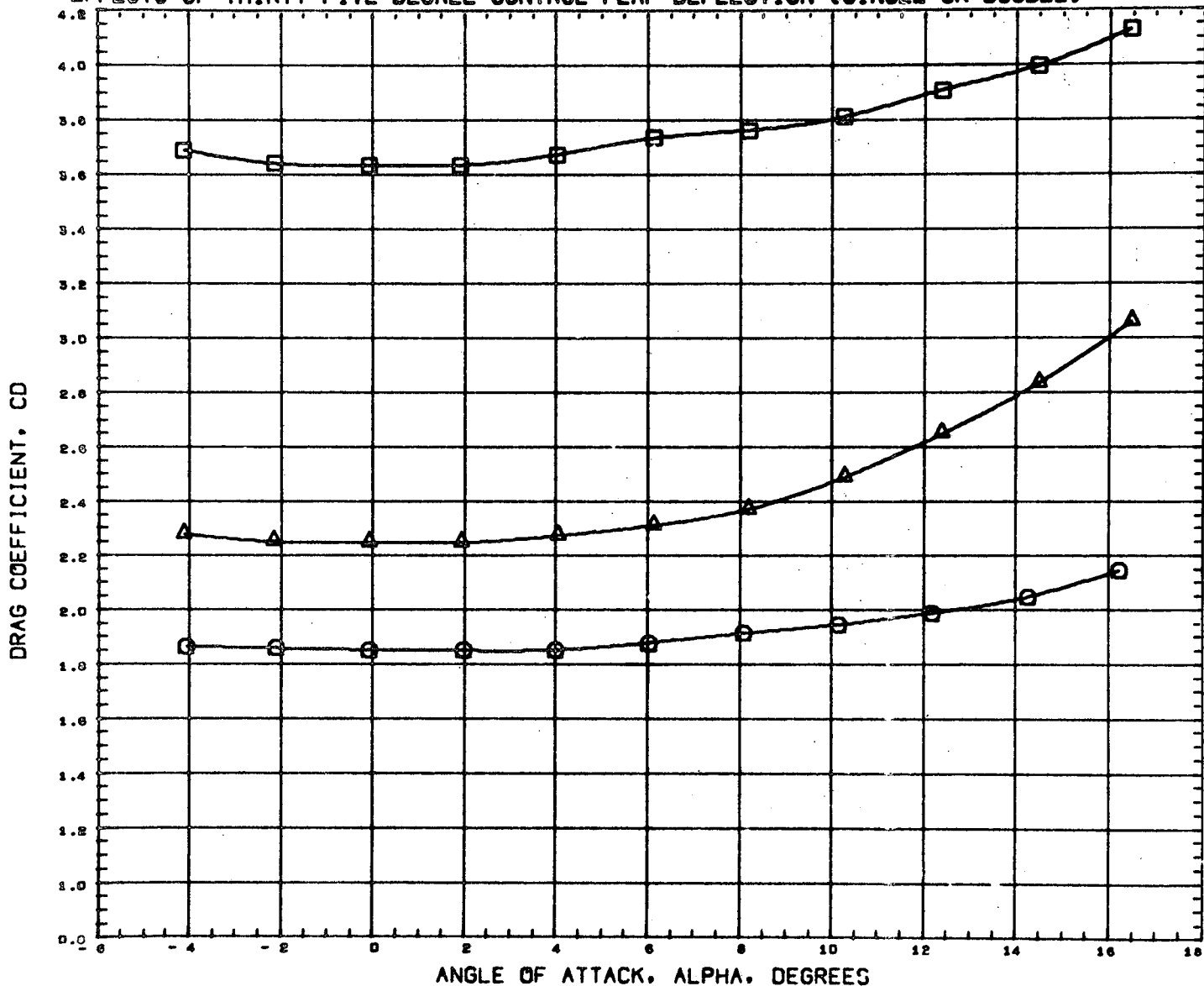
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(D50110)	MSFC 512 GD/C .005500 BOOSTER B34R6	0.000	45.000			SR-LF	0.9350 SQ. IN.
(D50010)	MSFC 512 GD/C .005500 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50080)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF	1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.201

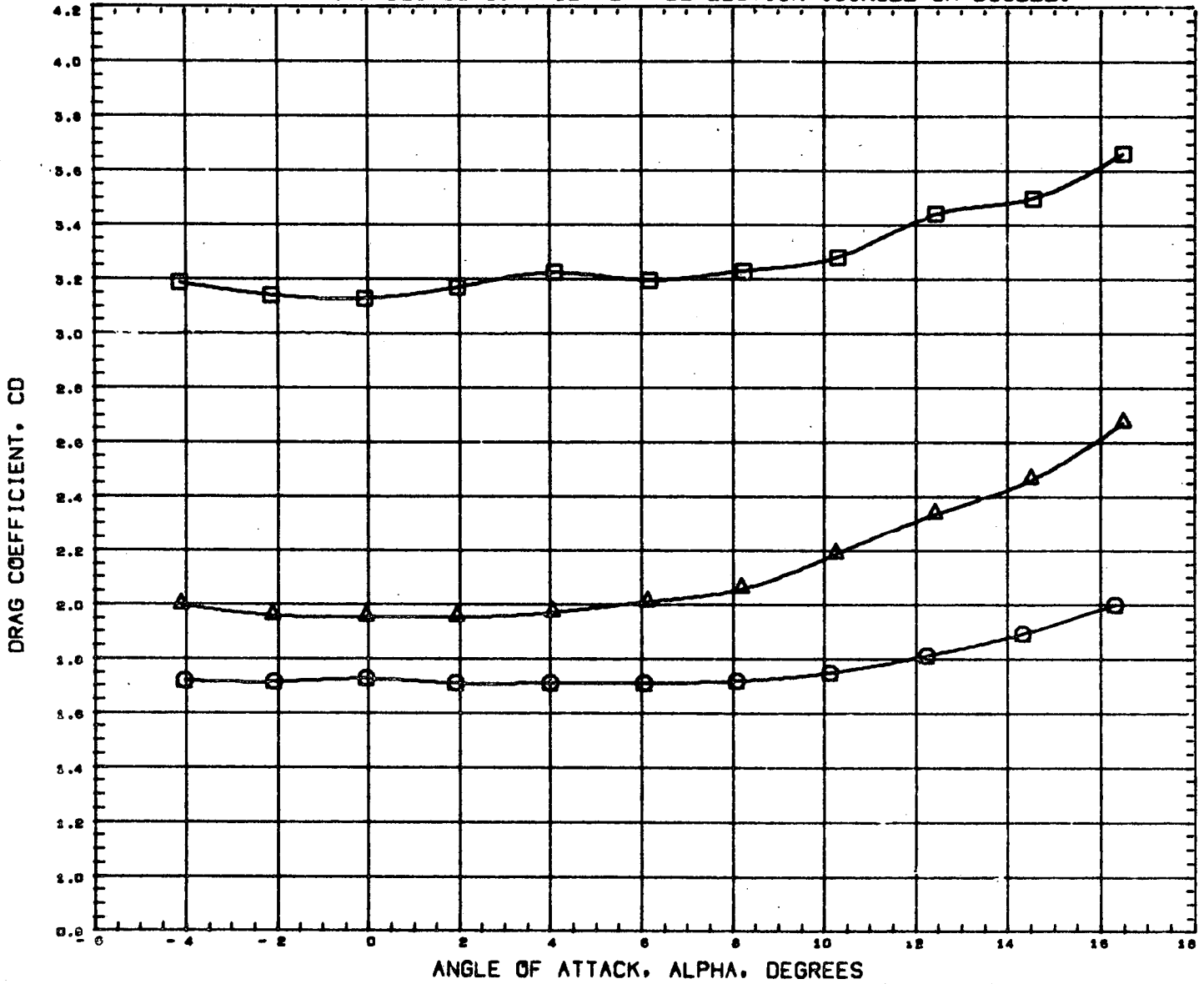
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D9D110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(D9D010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9D060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D9D090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	0.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.459

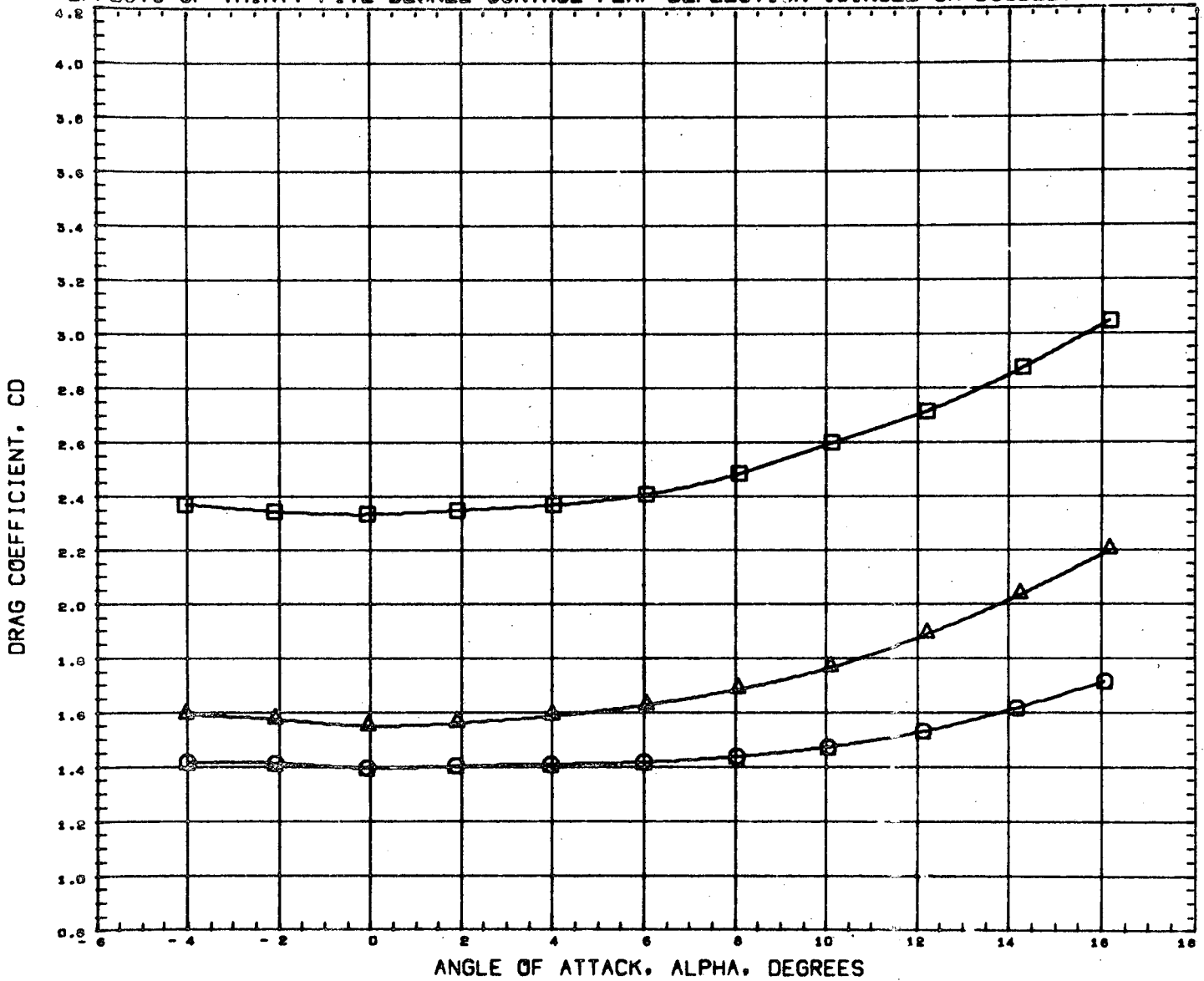
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER 834R6	0.000	45.000			SREF 0.9350 80. IN.
(D50010)	MSFC 512 GD/C .003366 BOOSTER 834R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER 834R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

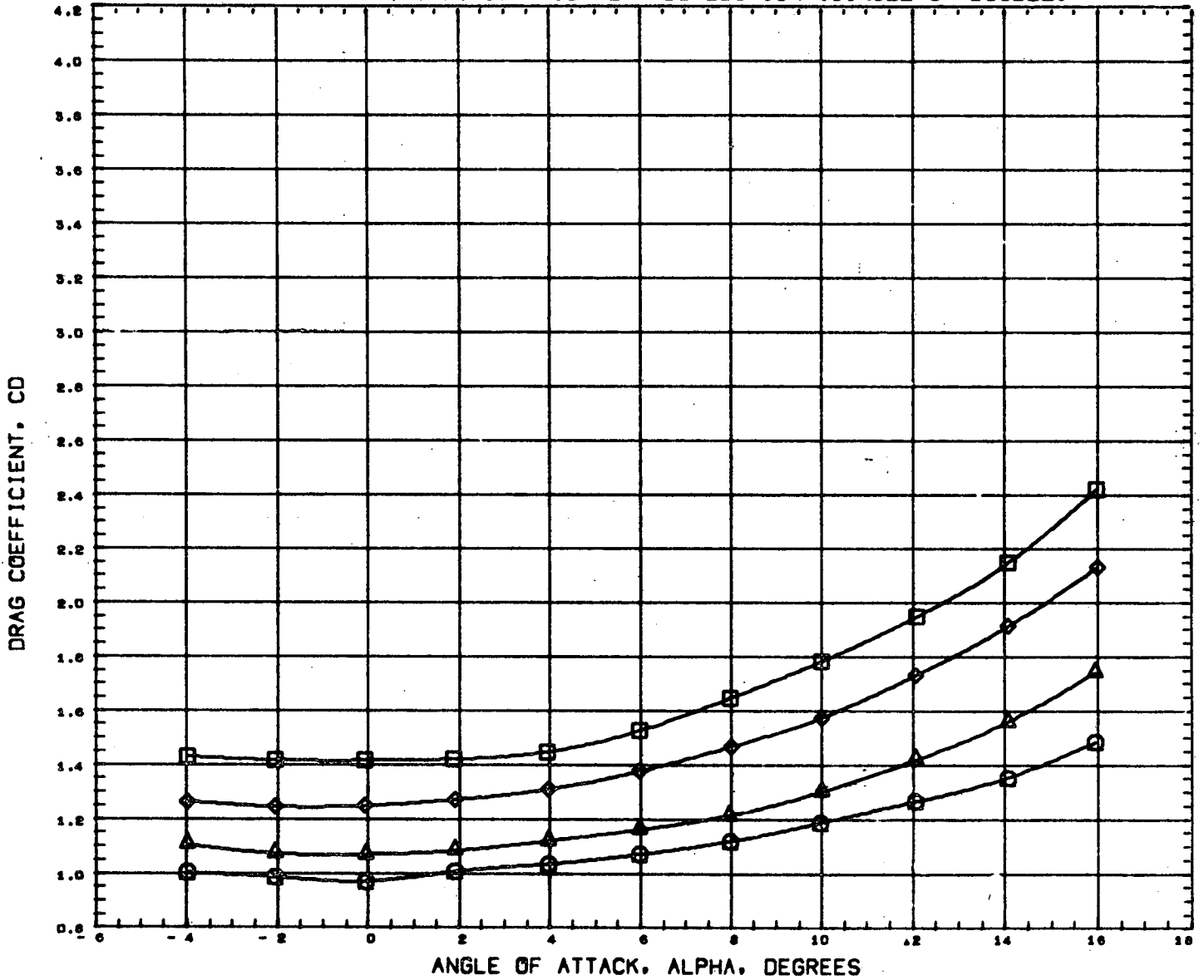
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2510 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	M8FC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

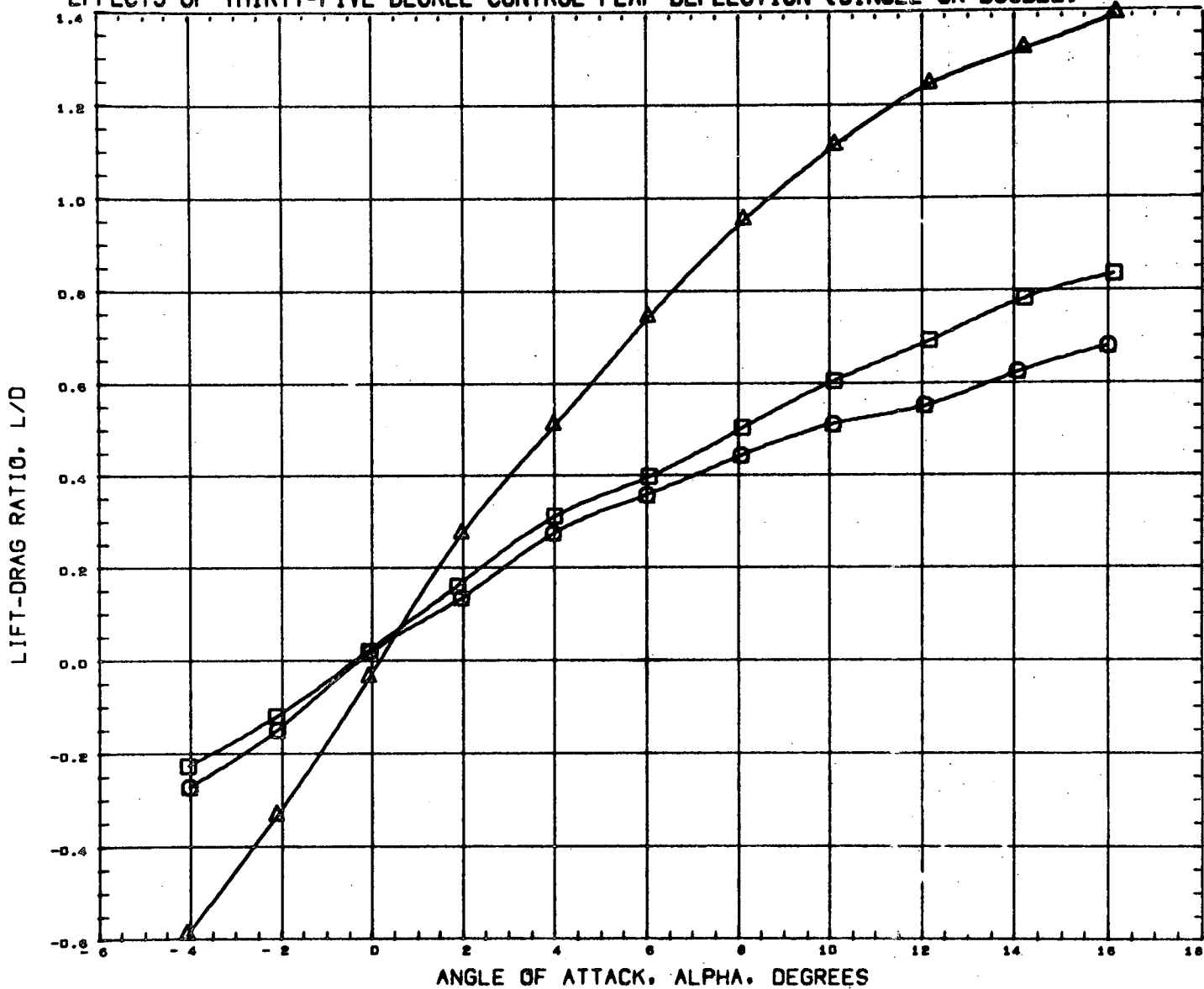
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRLF 0.9350 80. IN.
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	MSFC 512 GD/C .003366 BOOSTER B34R6T14	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7820 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 4.959

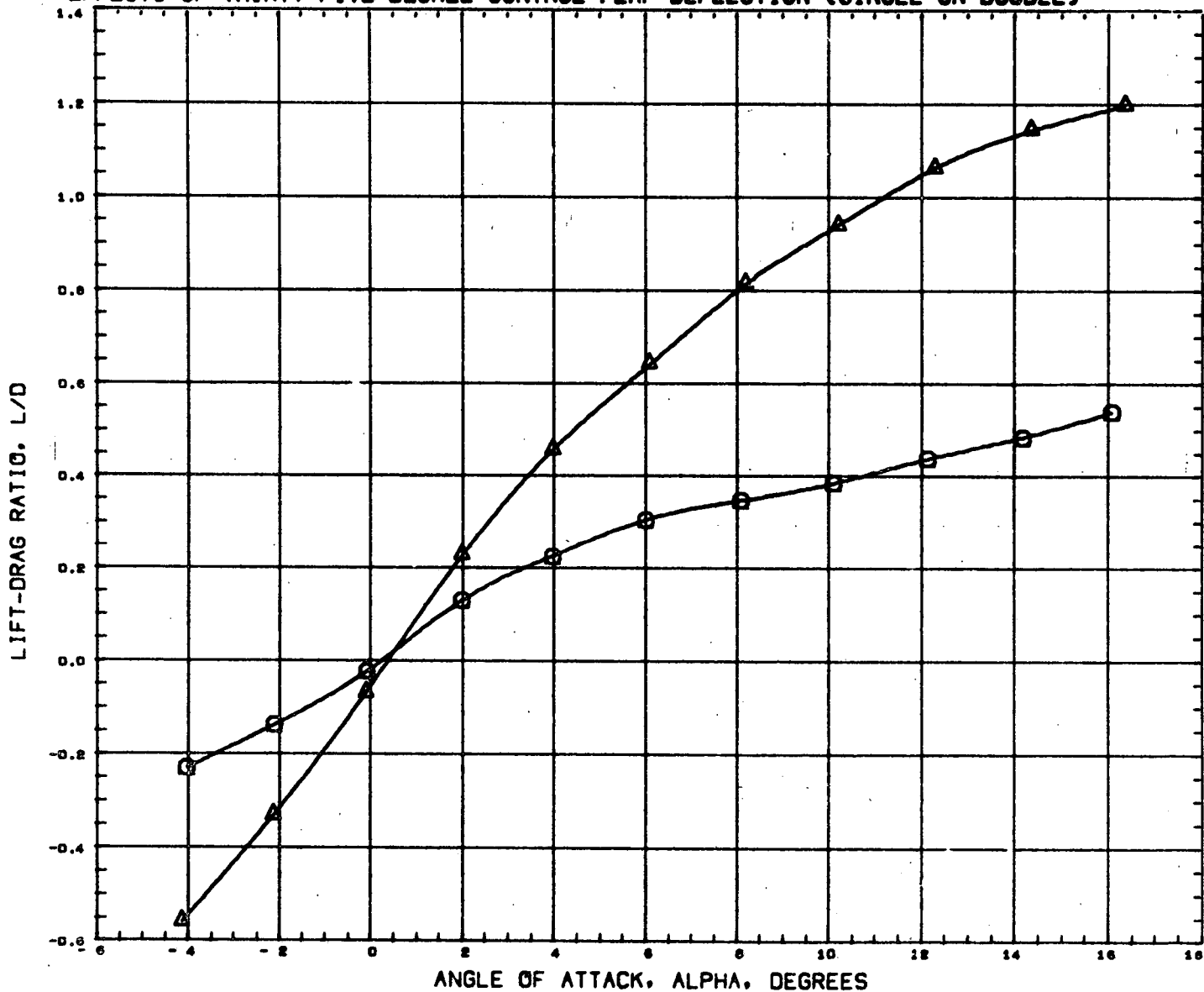
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SR.F 0.9350 SQ. IN.
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

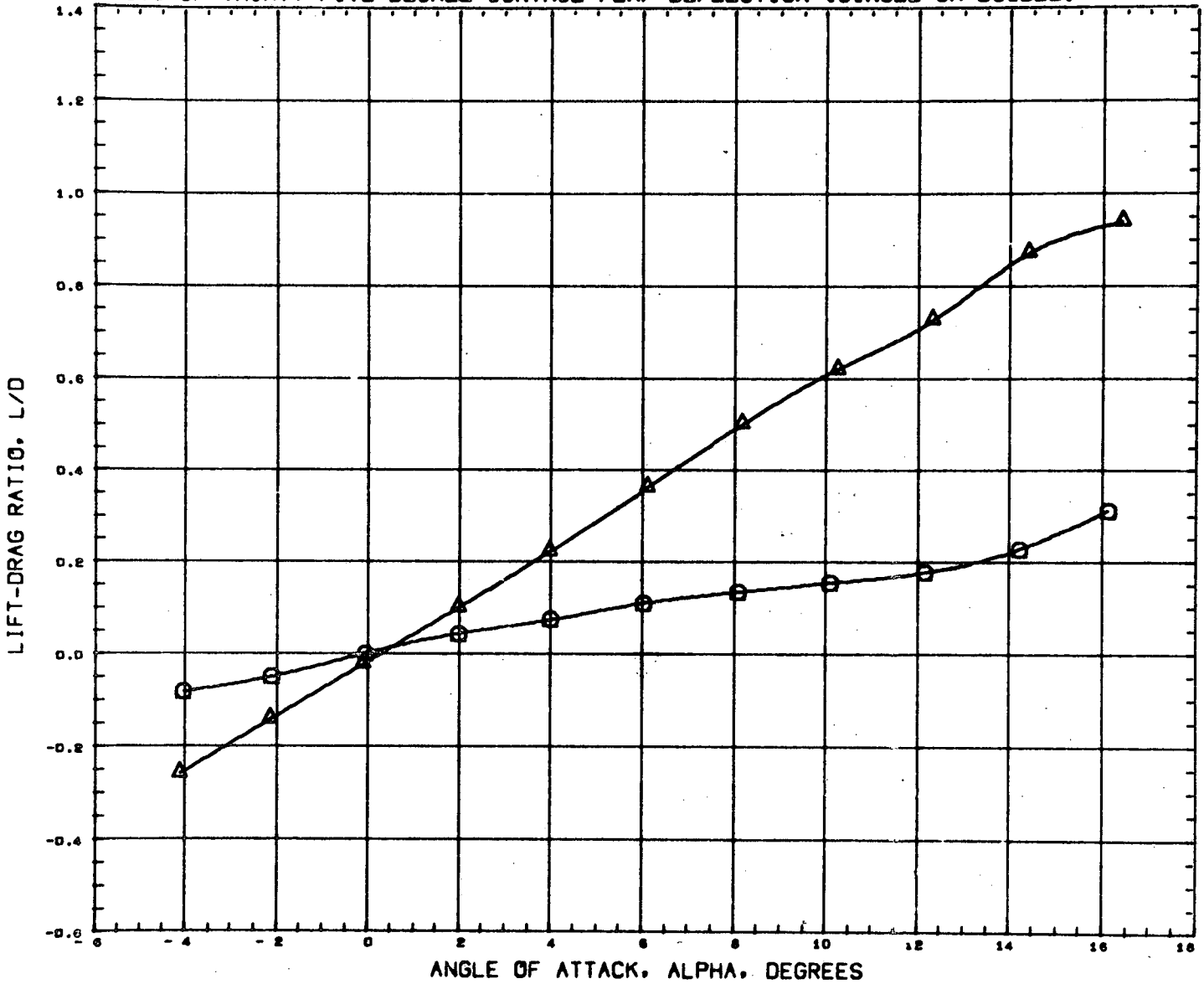
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	M8FC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(D50010)	M8FC 512 GD/C .003368 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XHRF 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

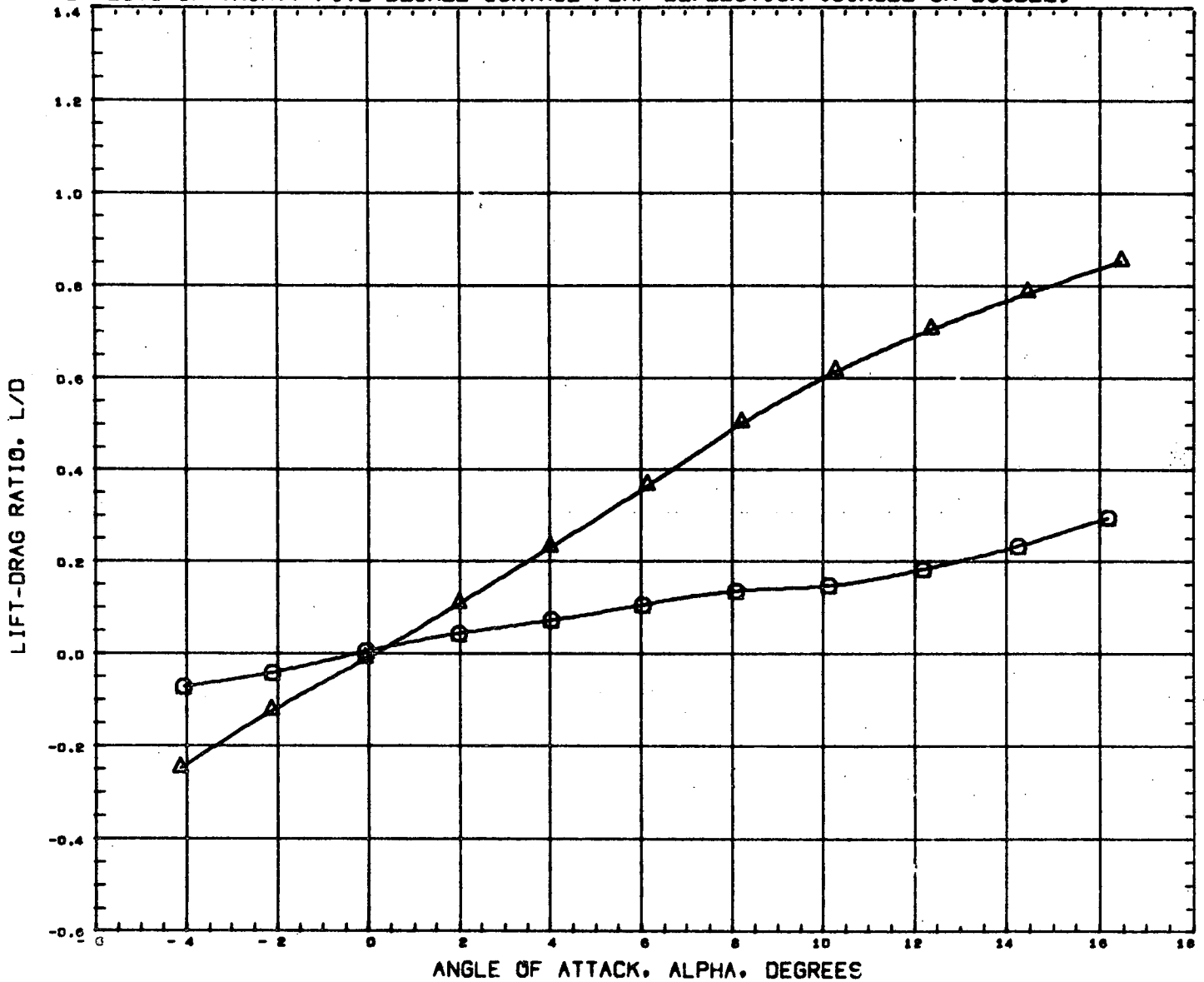
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(050060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(050090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

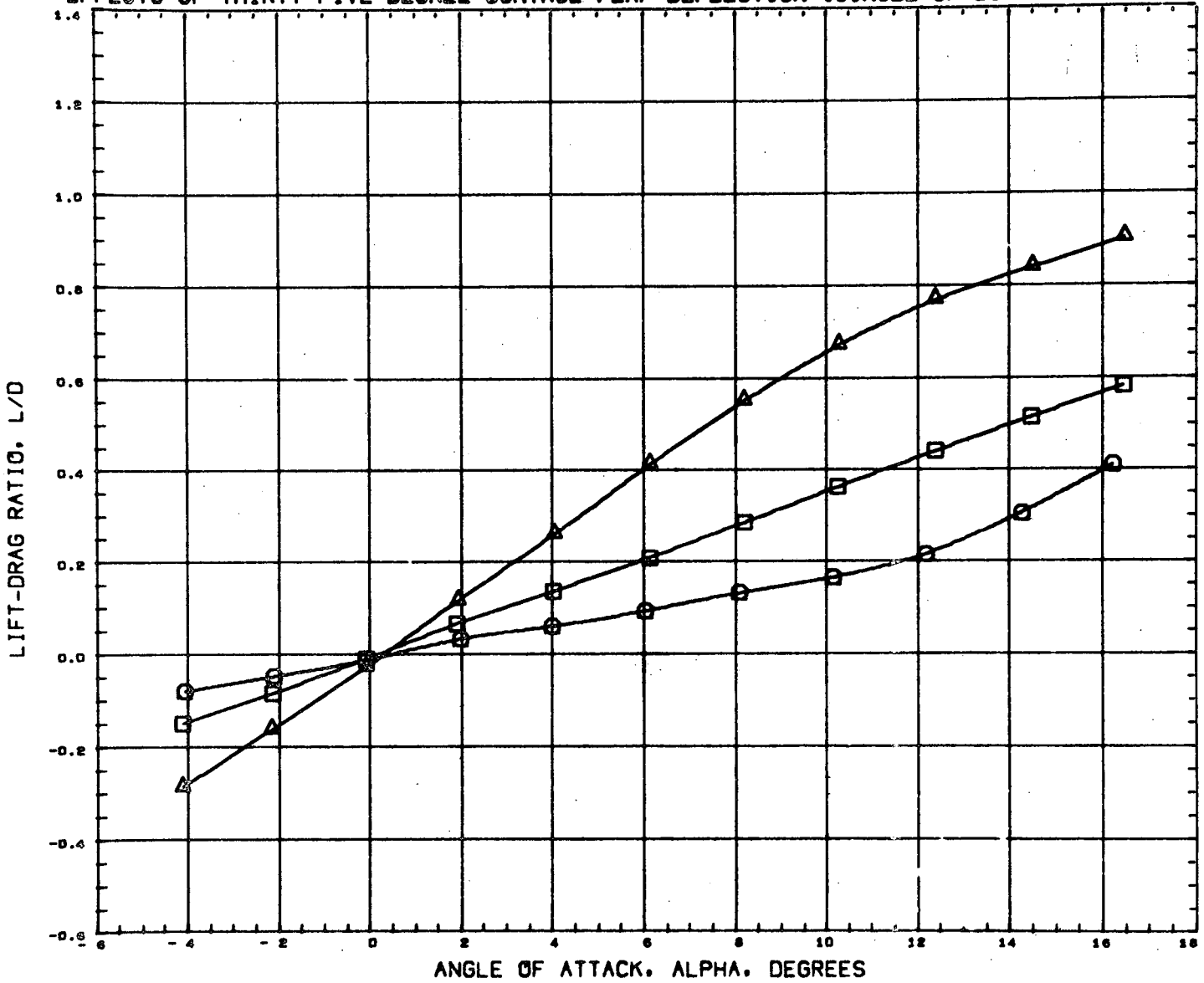
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(D50110)	MSFC 512 GD/C .003360 BOOSTER B34R6	0.000	45.000			SkcF	0.9350 80. IN.
(D50010)	MSFC 512 GD/C .003360 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF	1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.20

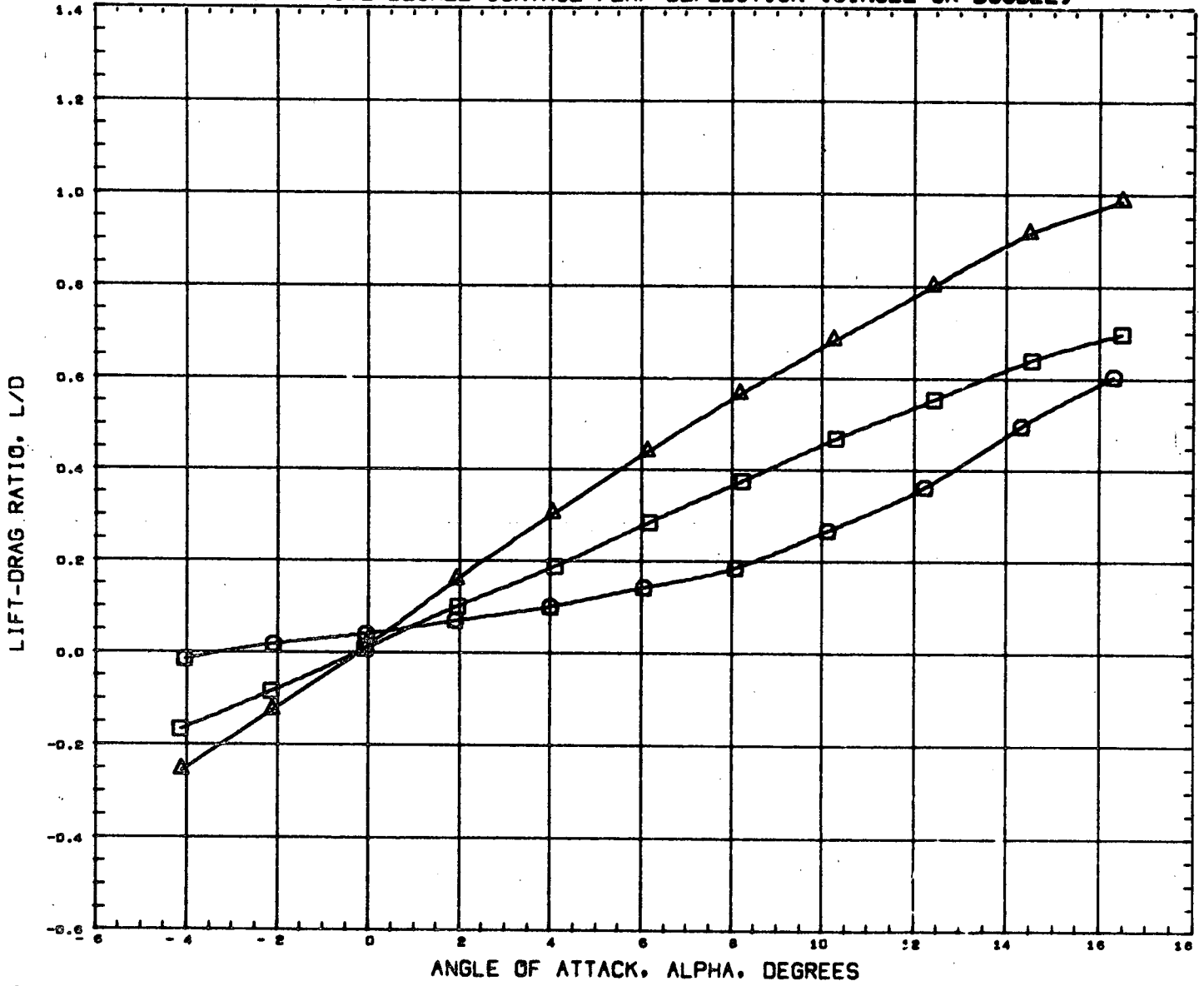
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 86 IN.
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	M8FC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XNRF 3.7920 INCHES
						YNRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

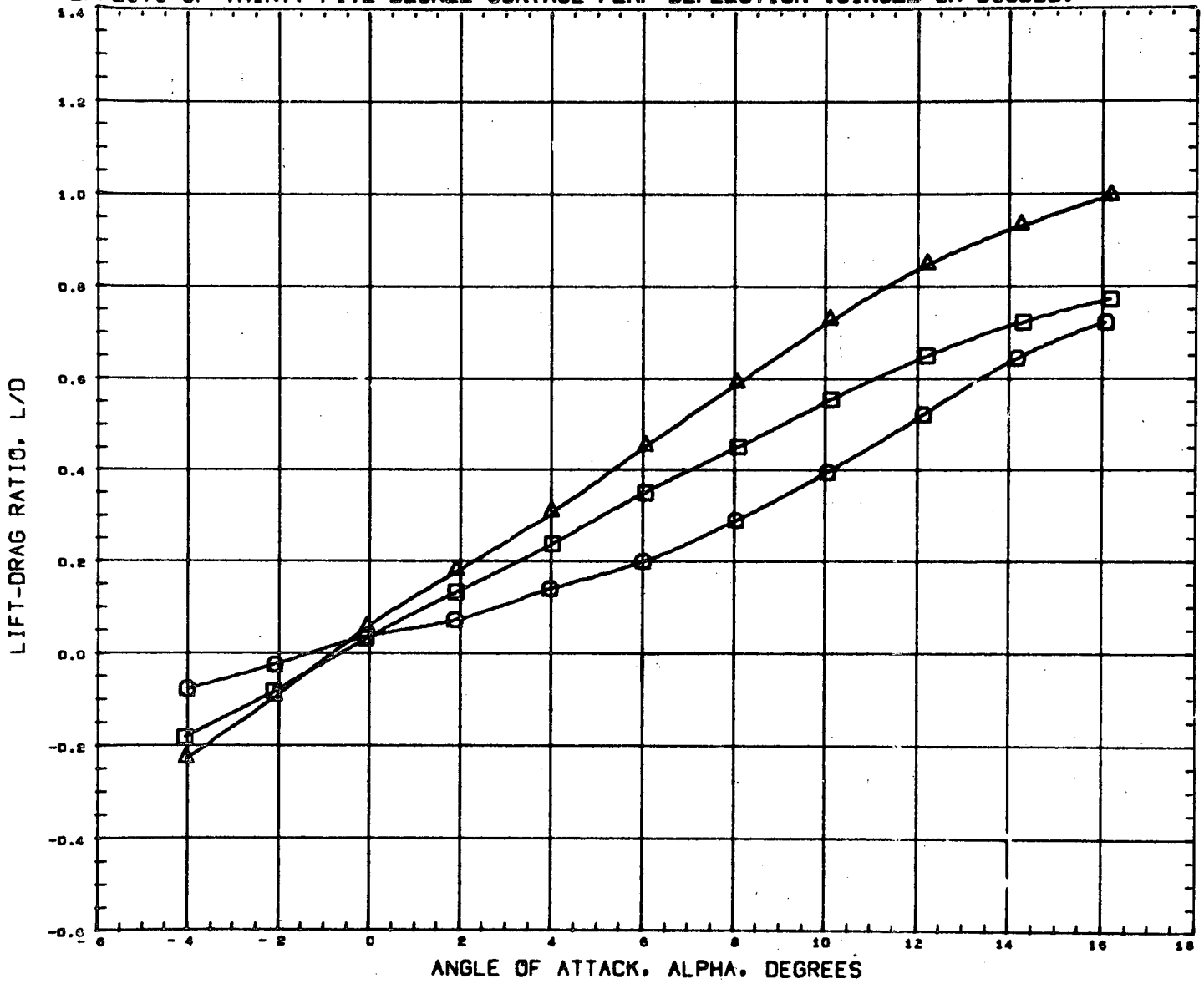
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(050060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(050090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

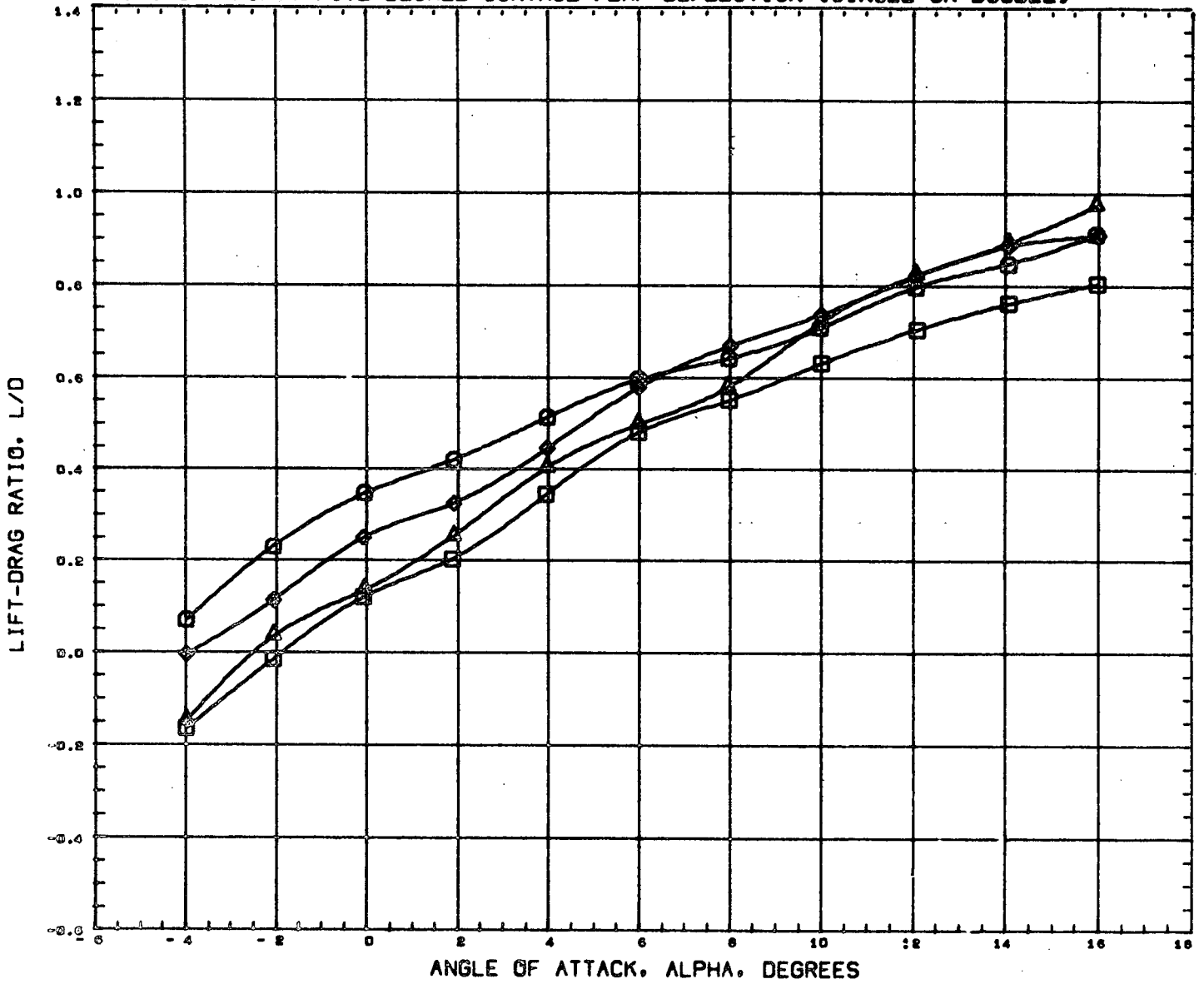
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(D50110)	MBFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRE	0.9350 80. IN.
(D50010)	MBFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF	1.0910 INCHES
(D50090)	MBFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 2.740

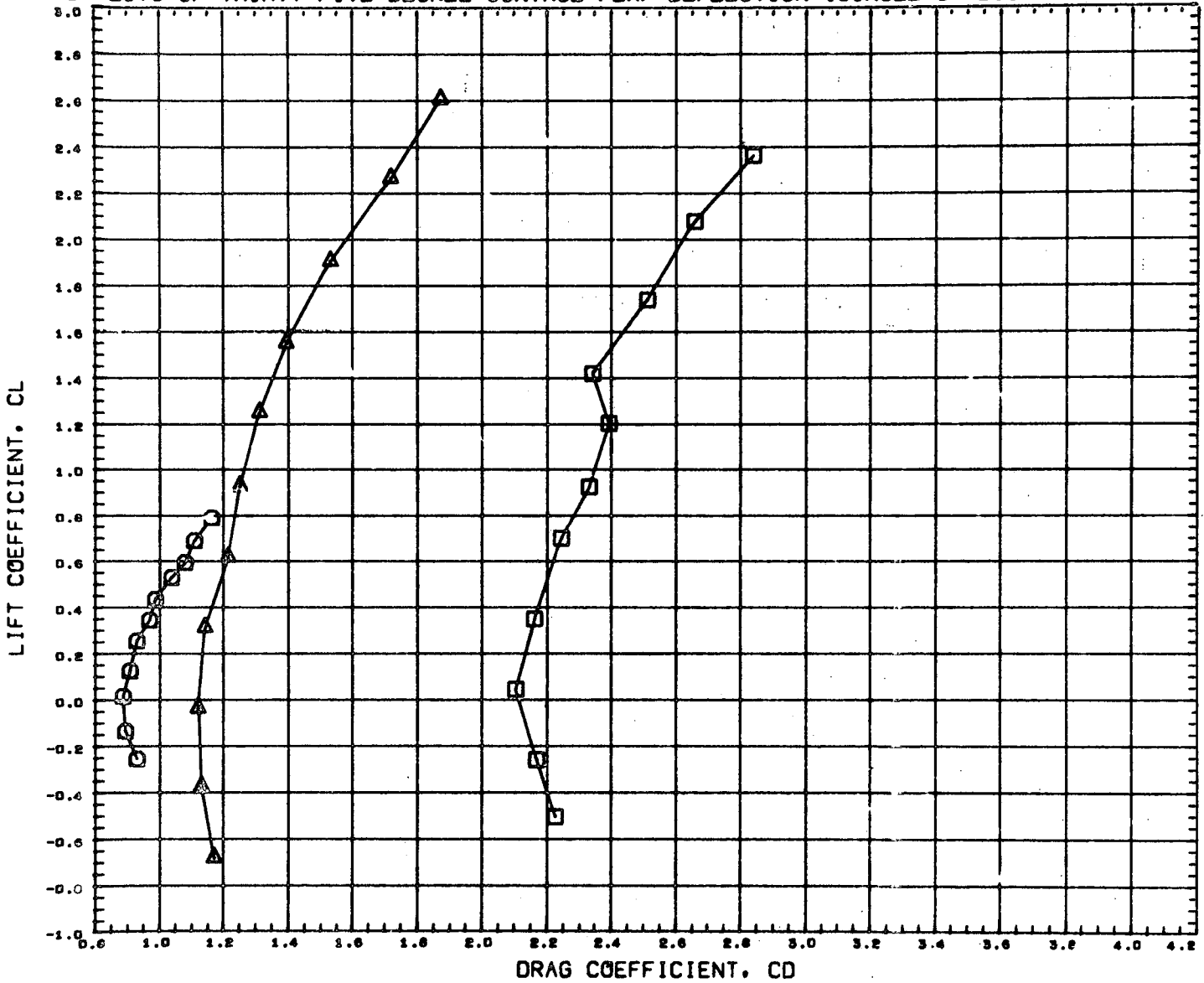
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 6D/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50010)	MSFC 512 6D/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	MSFC 512 6D/C .003366 BOOSTER B34R6T14	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	MSFC 512 6D/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.980

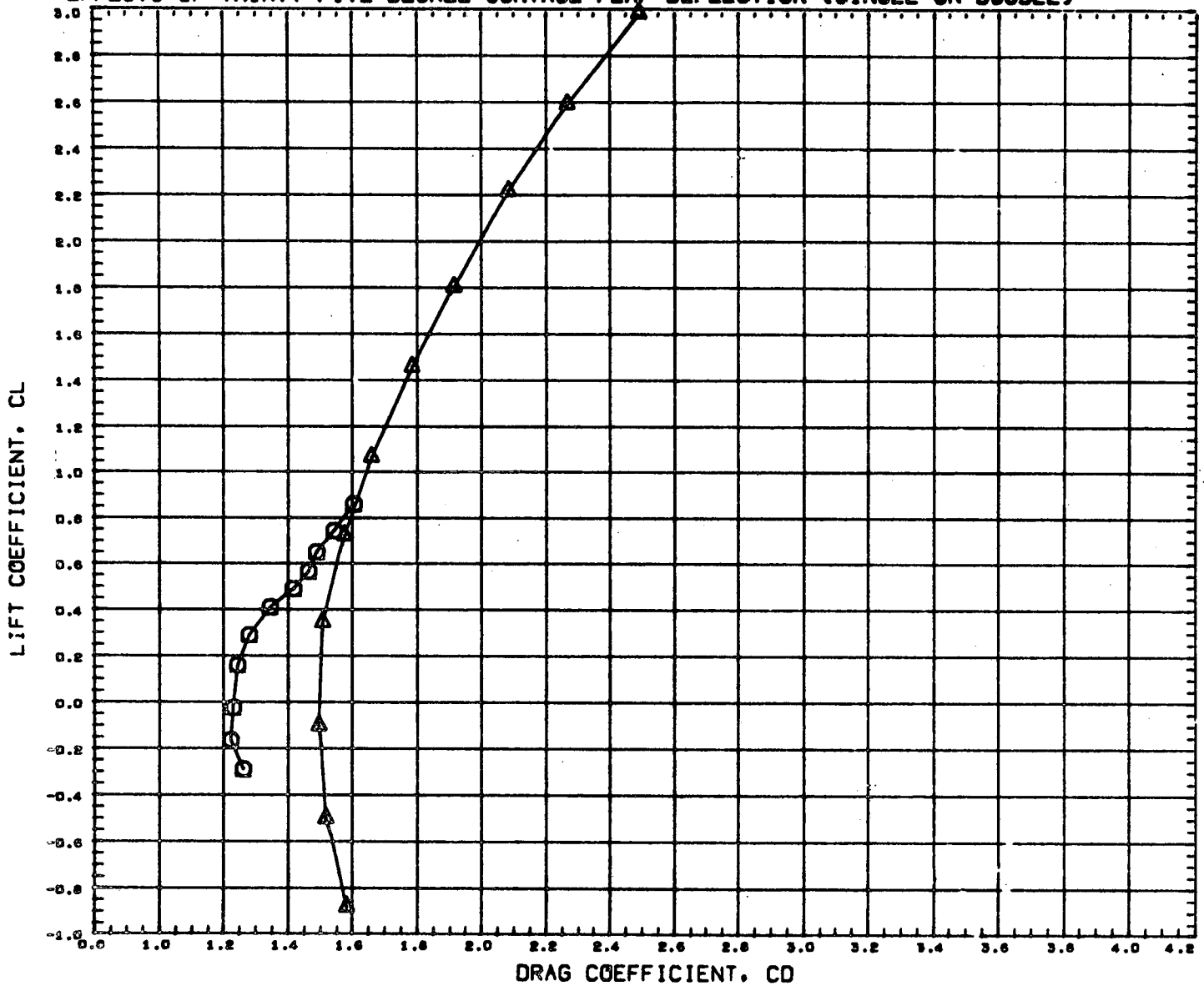
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(D50110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 80. IN.
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000			LREF	6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF	1.0910 INCHES
(D50090)	M8FC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.603

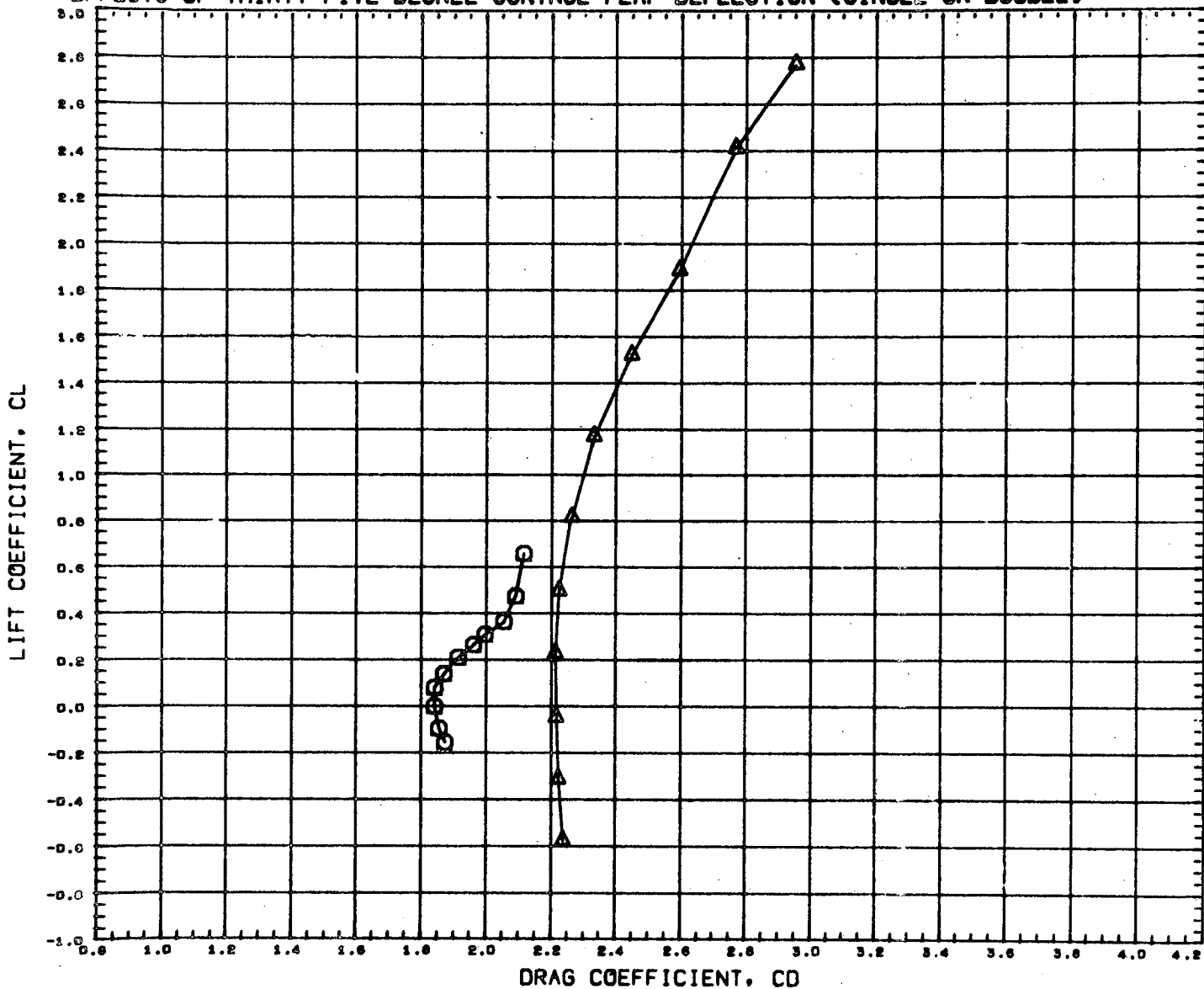
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003360 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50010)	MSFC 512 GD/C .003360 BOOSTER B34P6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	SREF 1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.000

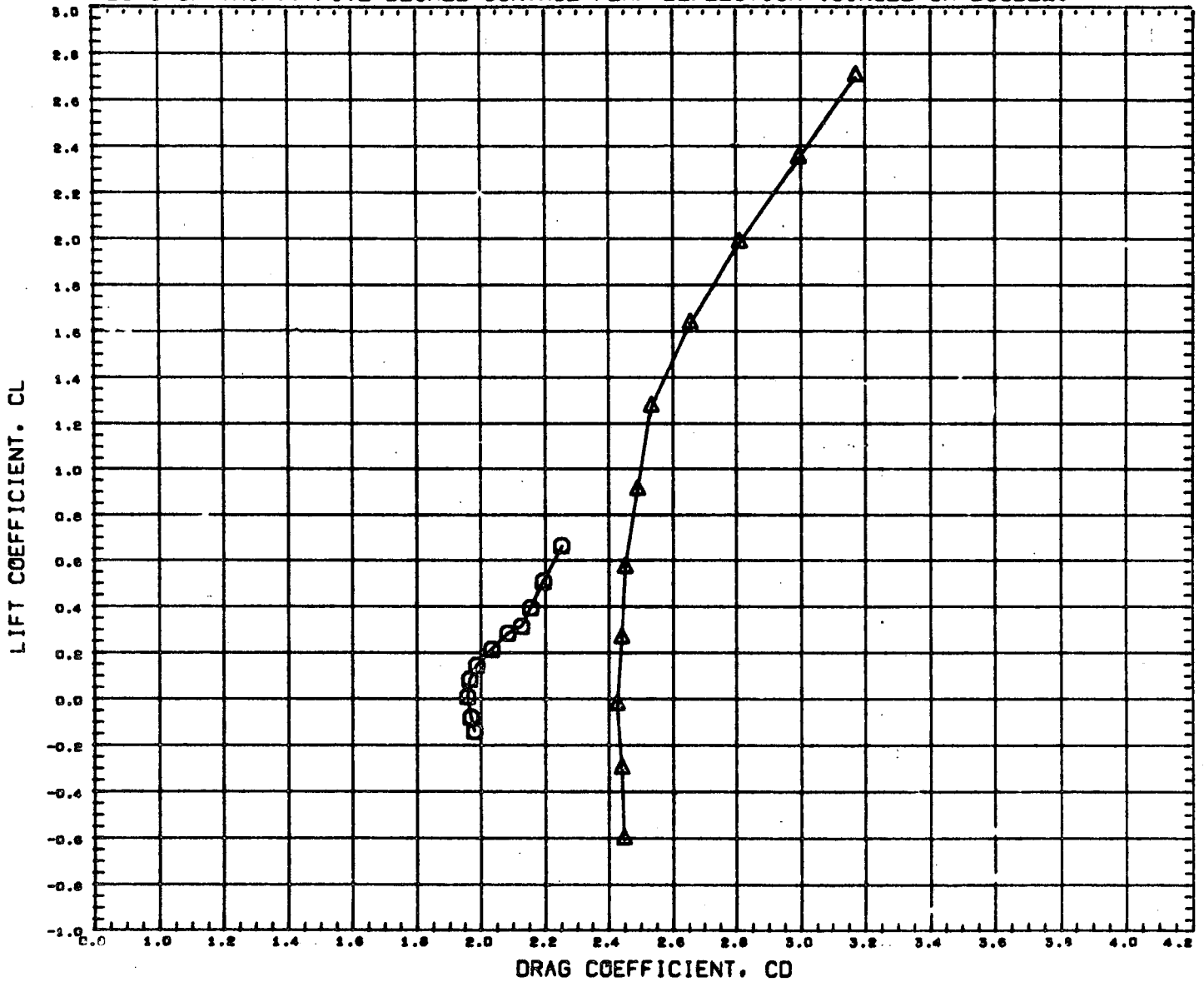
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MBFC 512 GD/C .003368 BOOSTER 834R6	0.000	45.000			SREF 0.9350 80 IN.
(D50010)	MBFC 512 GD/C .003368 BOOSTER 834R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

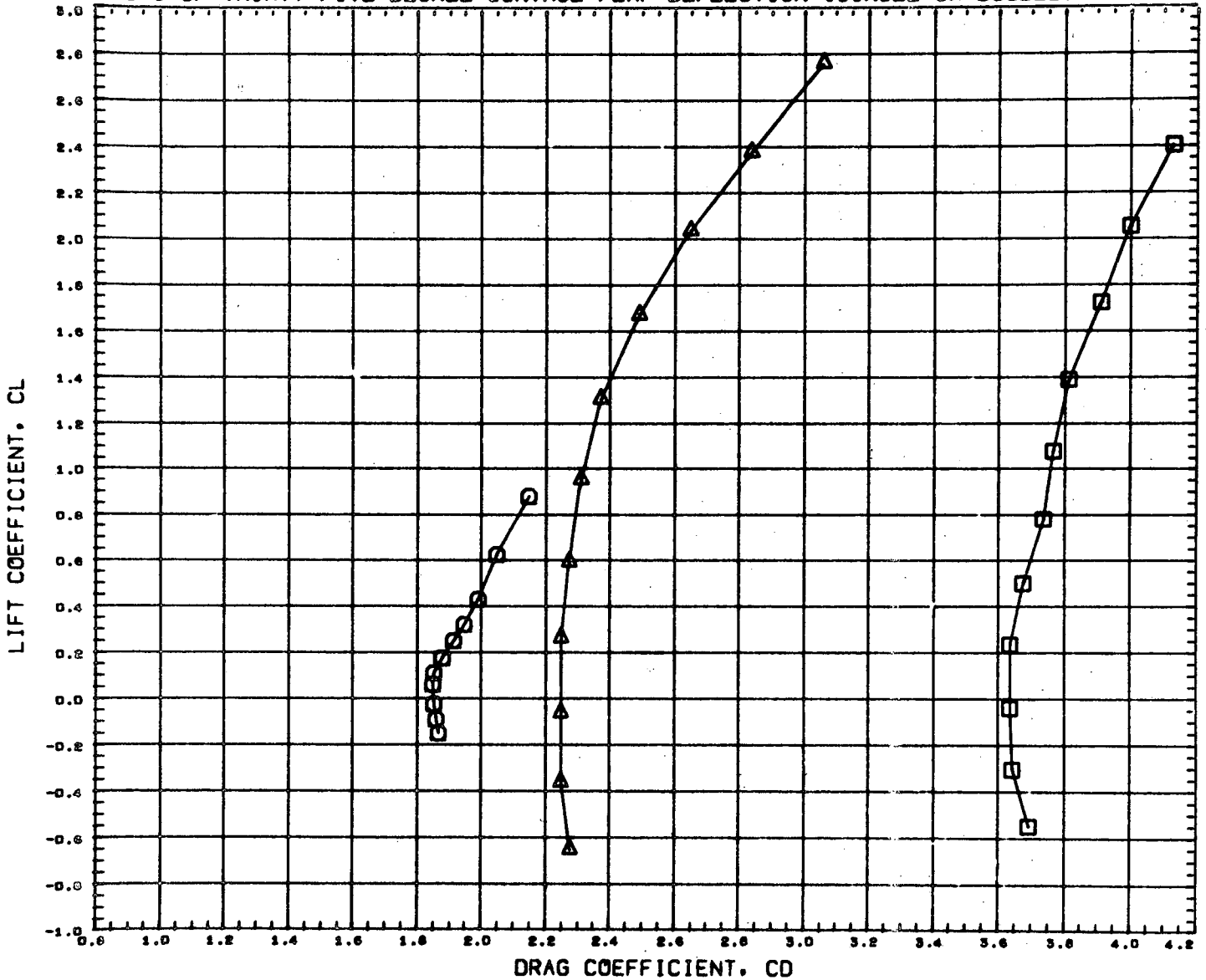
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050110)	MSFC 512 GD/C .003308 BOOSTER B34R6	0.000	45.000			BRCF 0.9350 80. IN.
(050010)	MSFC 512 GD/C .003308 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(050060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(050090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

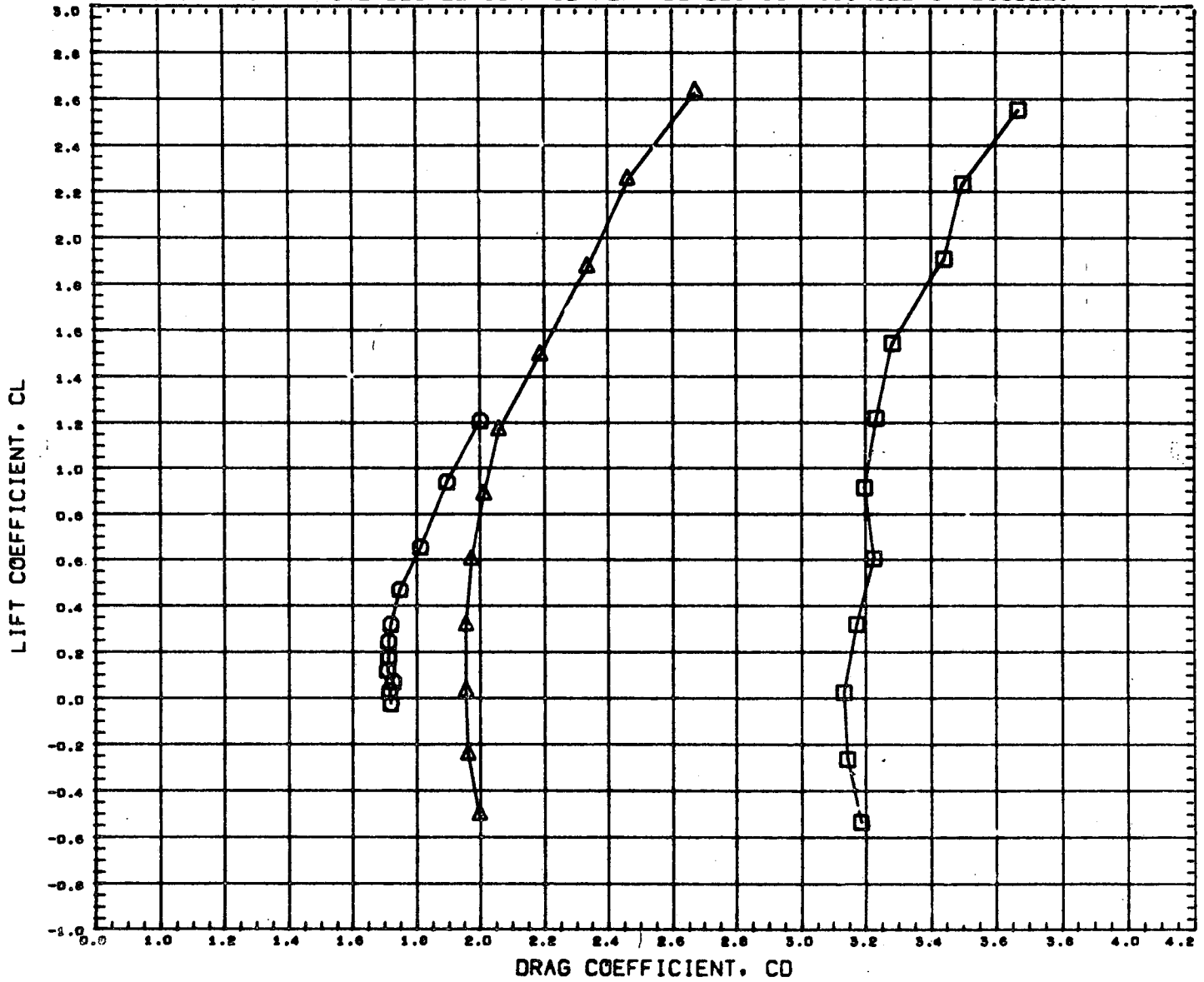
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D5D110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 89. IN.
(D5D010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5D060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D5D090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

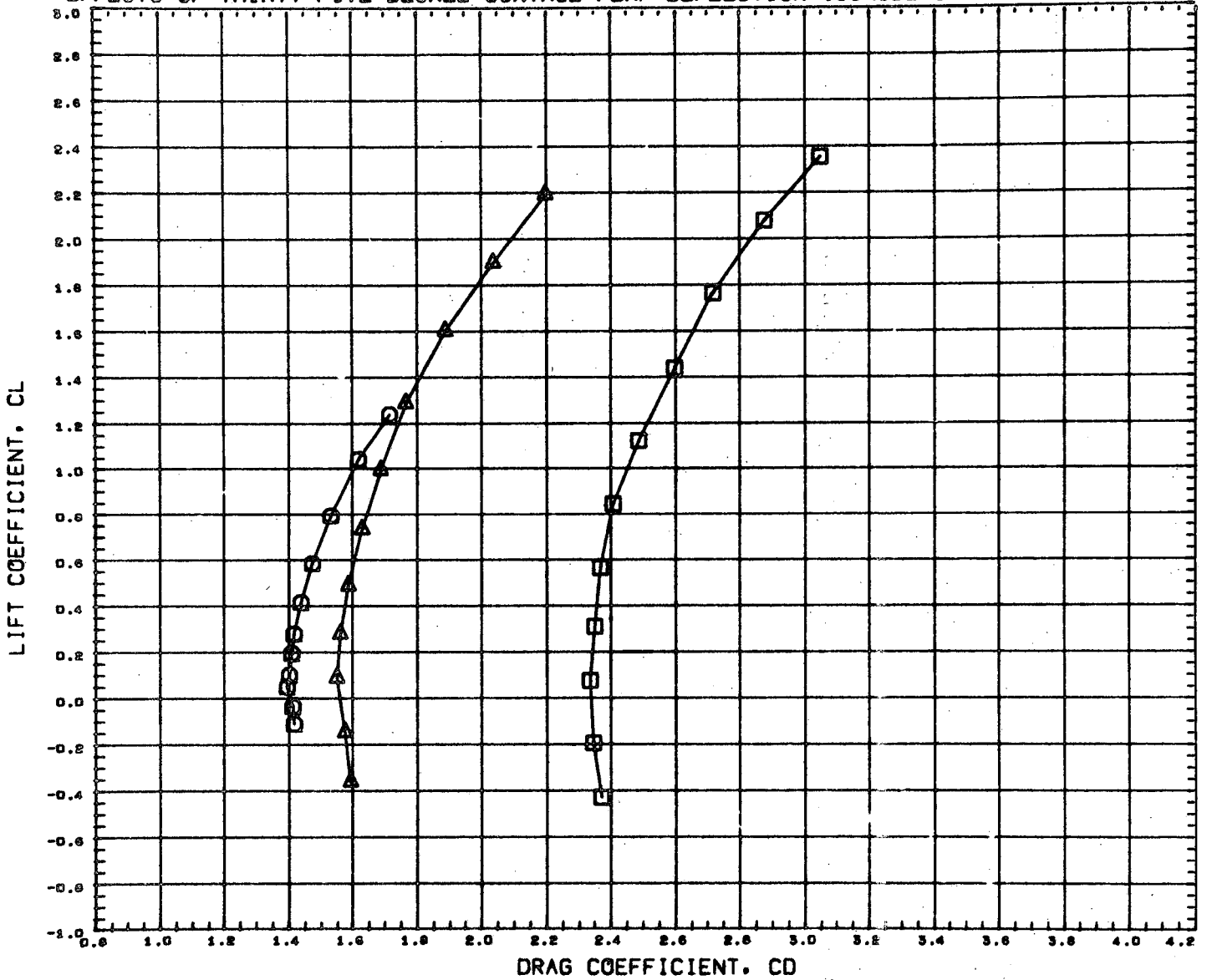
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SACT 0.9350 SQ. IN.
(D50010)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	M8FC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XHRF 3.7920 INCHES
						YHRF 0.0000 INCHES
						ZHRF 0.0000 INCHES
						SCALE 0.0034

MACH 1.066

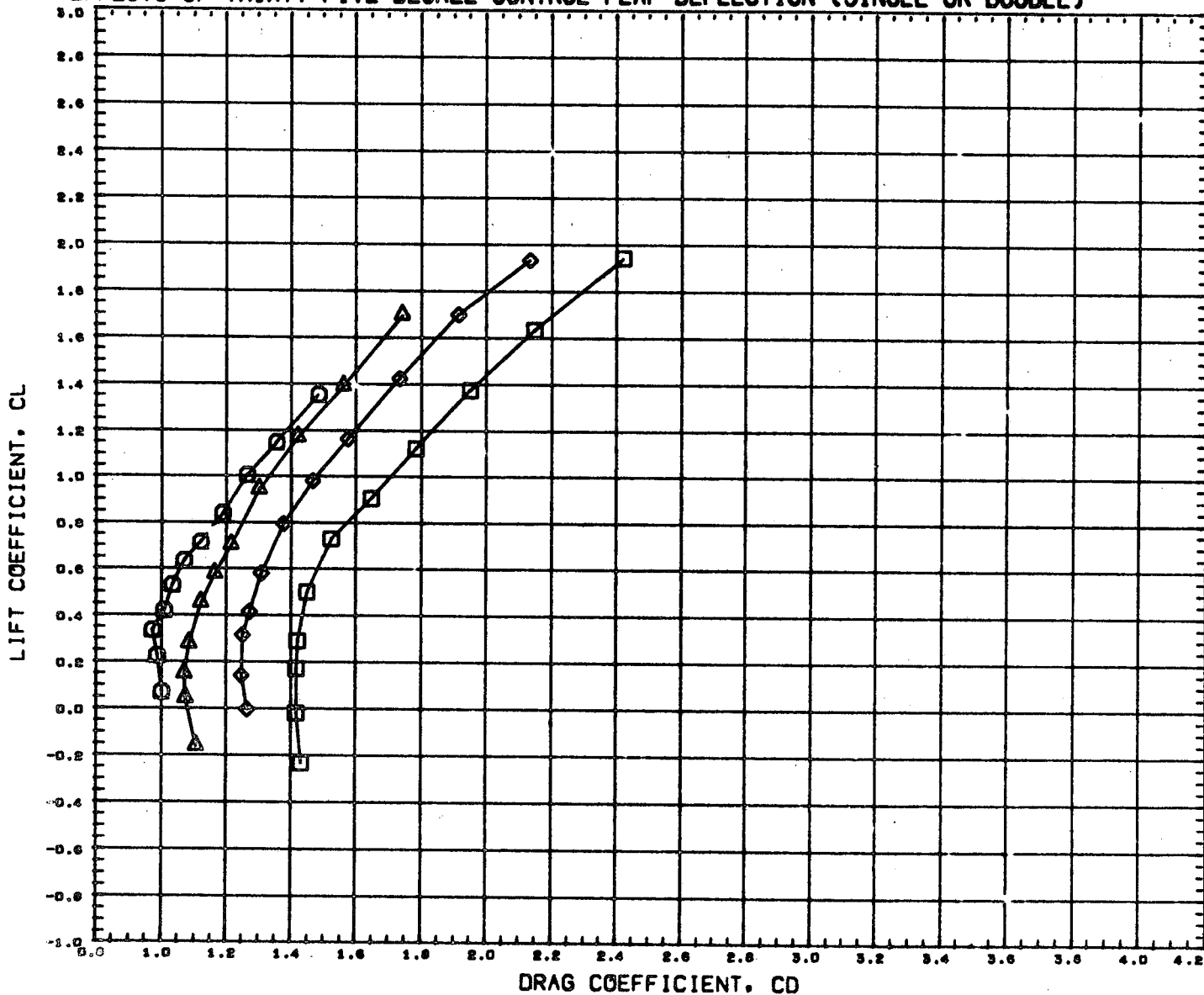
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D90110)	MSFC 512 GD/C .005366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 30. IN.
(D90010)	MSFC 512 GD/C .005366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90080)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D90090)	MSFC 512 GD/C .005366 BOOSTER B34R6T17	0.000	0.000	35.000	0.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

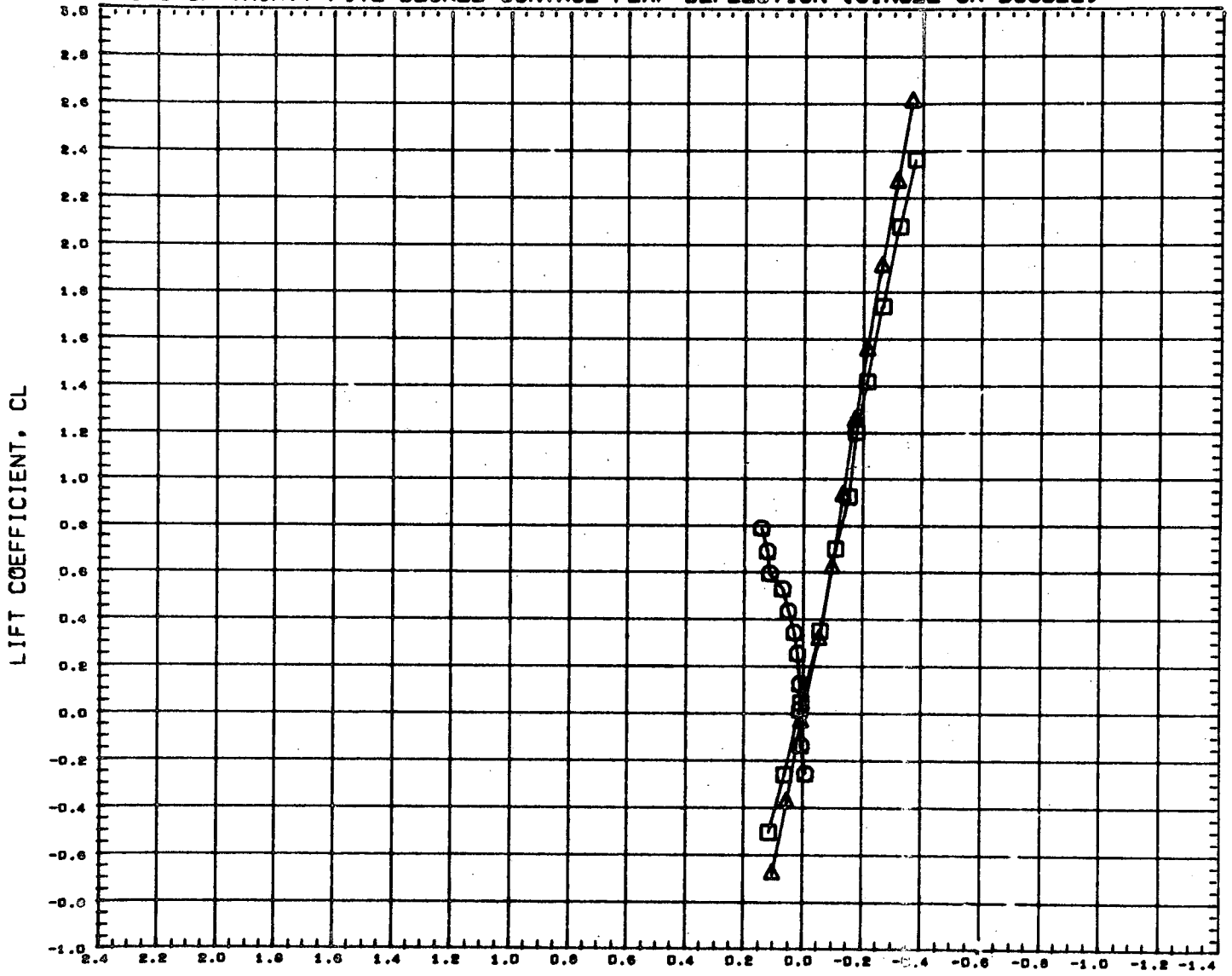
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50010)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7820 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)

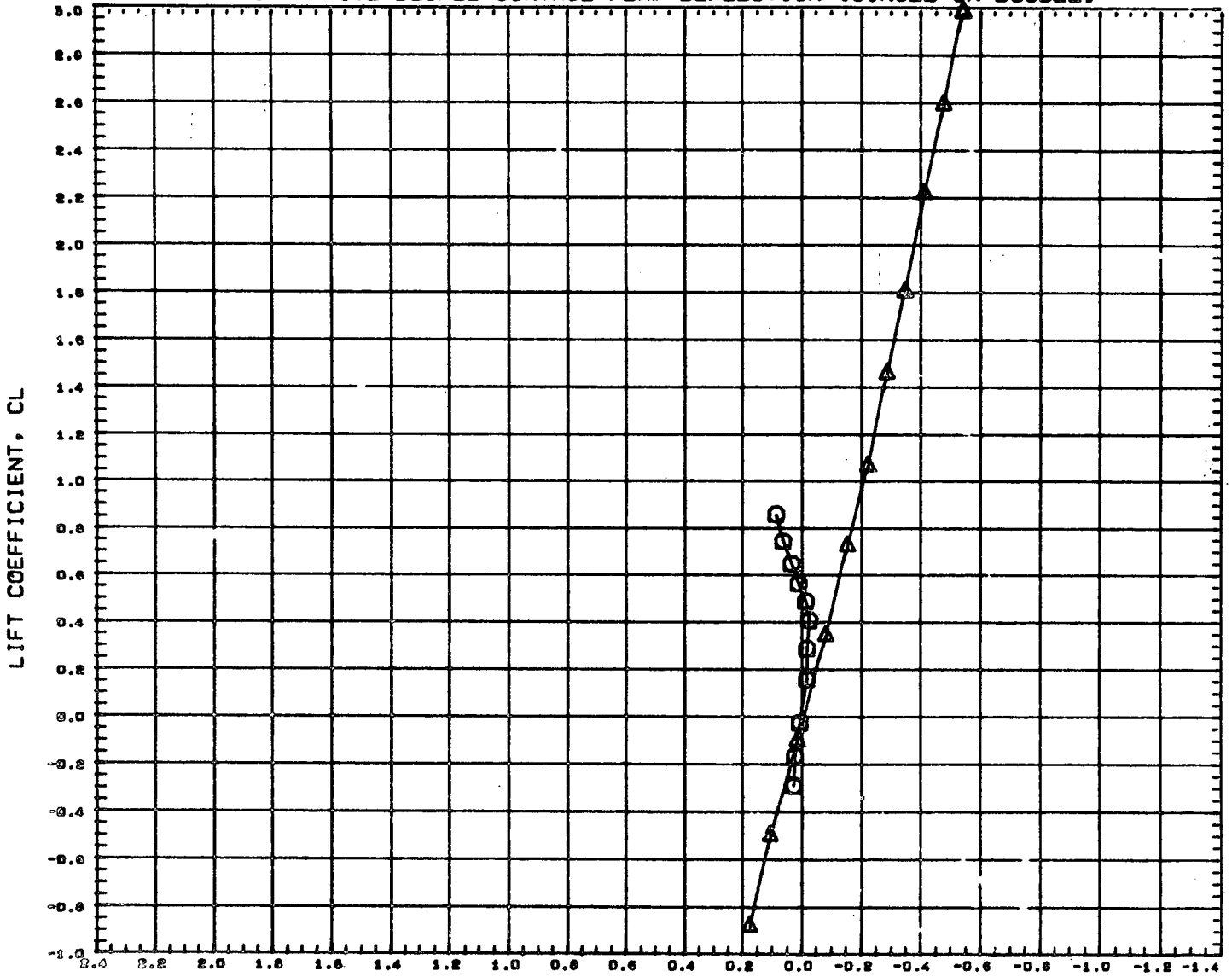


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SPTF 0.9350 SQ. IN.
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XHRP 3.7920 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.803

EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)

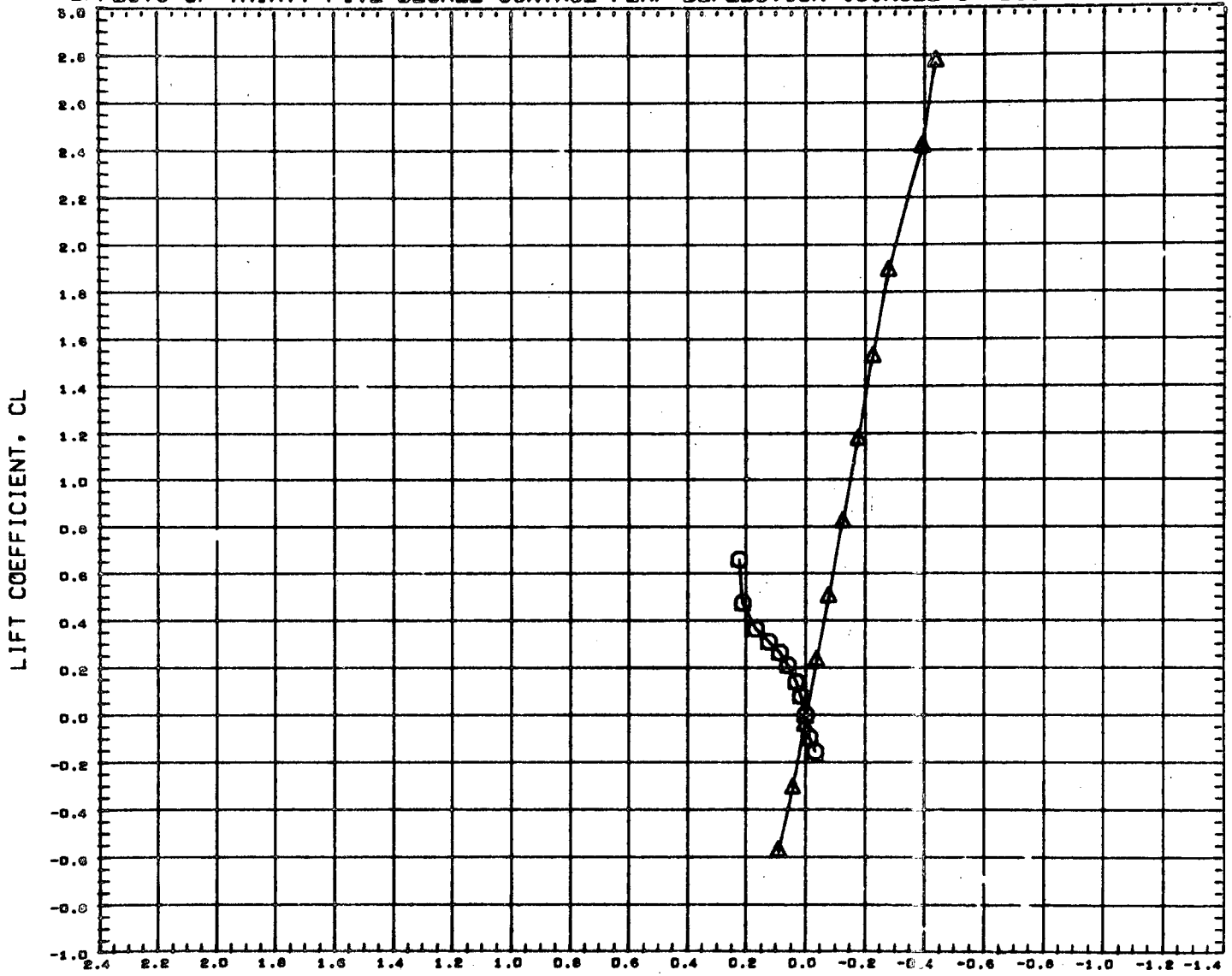


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003968 BOOSTER B34R6	0.000	45.000	0.000	0.000	BRE 0.9350 60. IN.
(D50010)	MSFC 512 GD/C .003968 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)

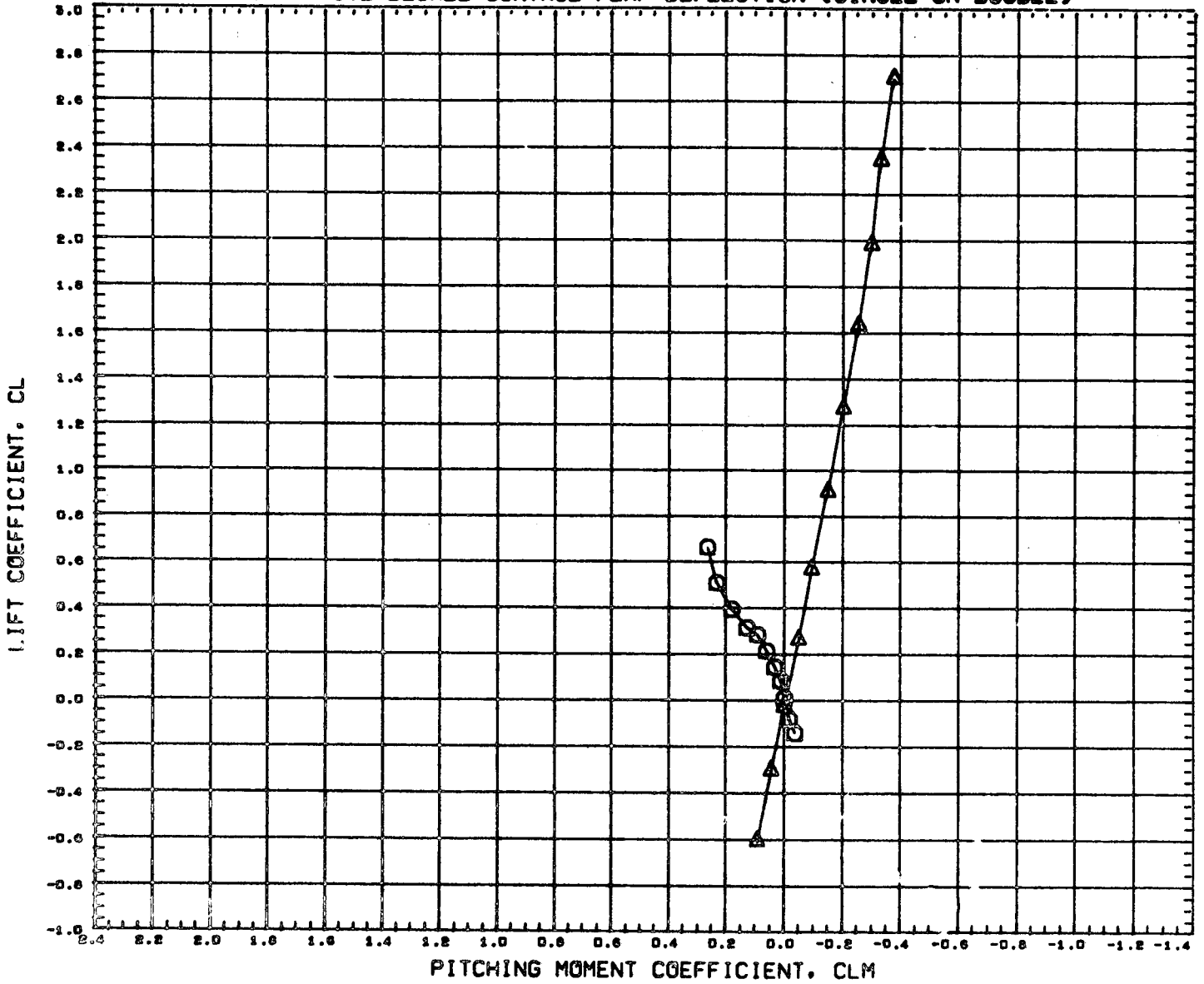


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RF AP	REFERENCE INFORMATION
(DS0110)	MSFC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000	0.000	0.000	SRET 0.9350 SQ. IN.
(DS0010)	MSFC 512 GD/C .003368 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(DS0060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(DS0090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRF 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

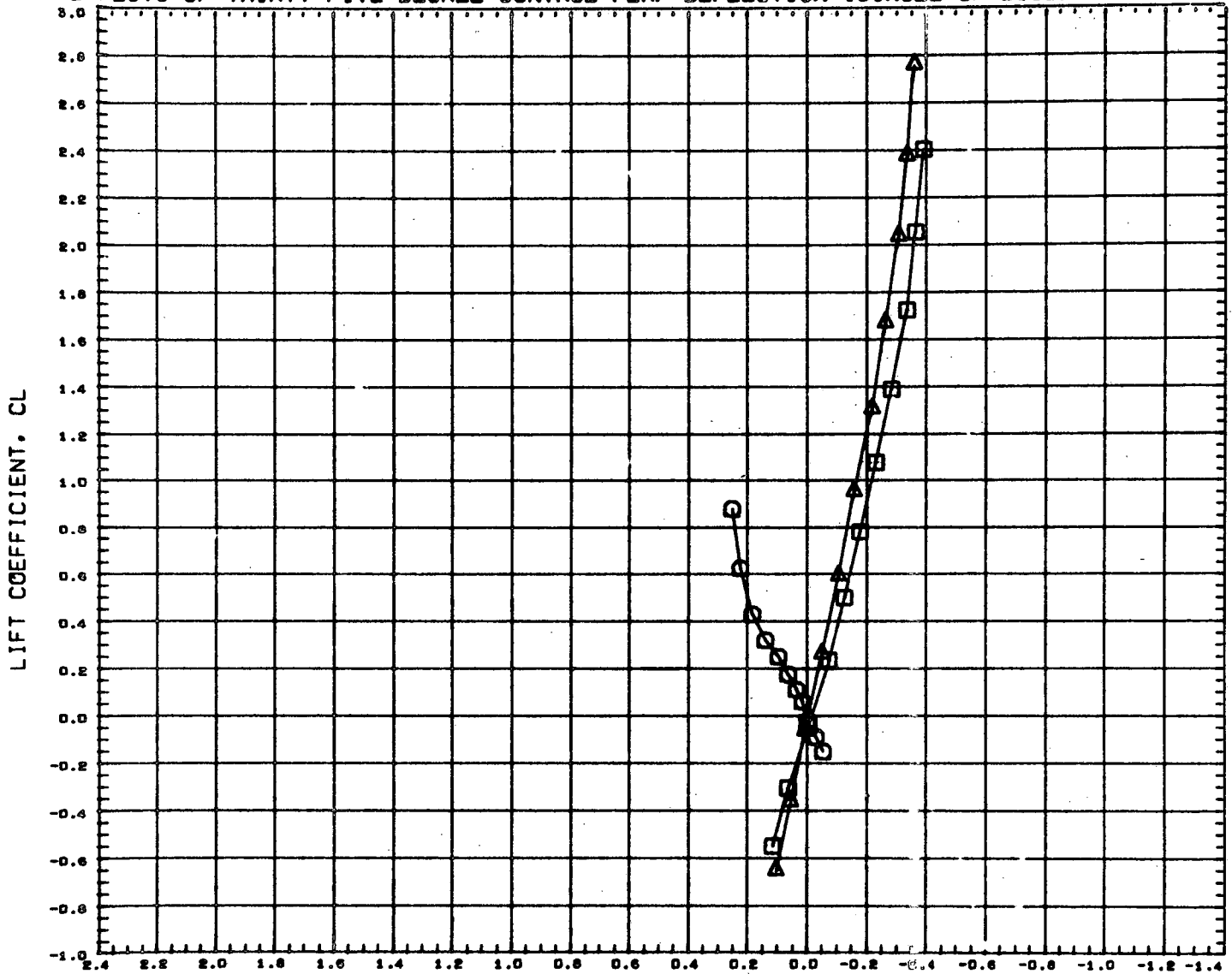
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050110)	MSFC 512 G/C .003500 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(050010)	MSFC 512 G/C .003500 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(050060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(050090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0036

MACH 1.201

EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)

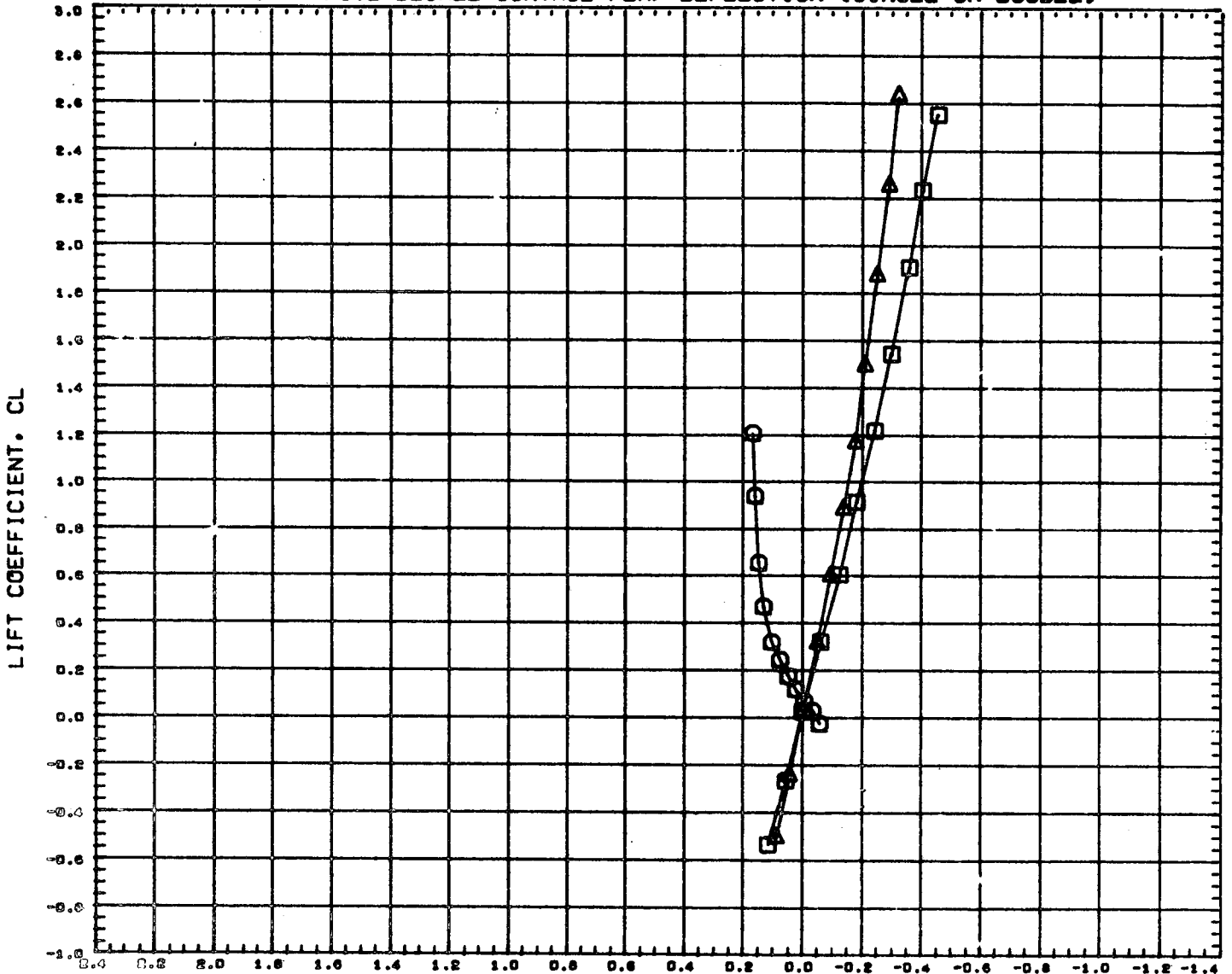


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	REFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRIF 0.9350 88. IN.
(D50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.488

EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)

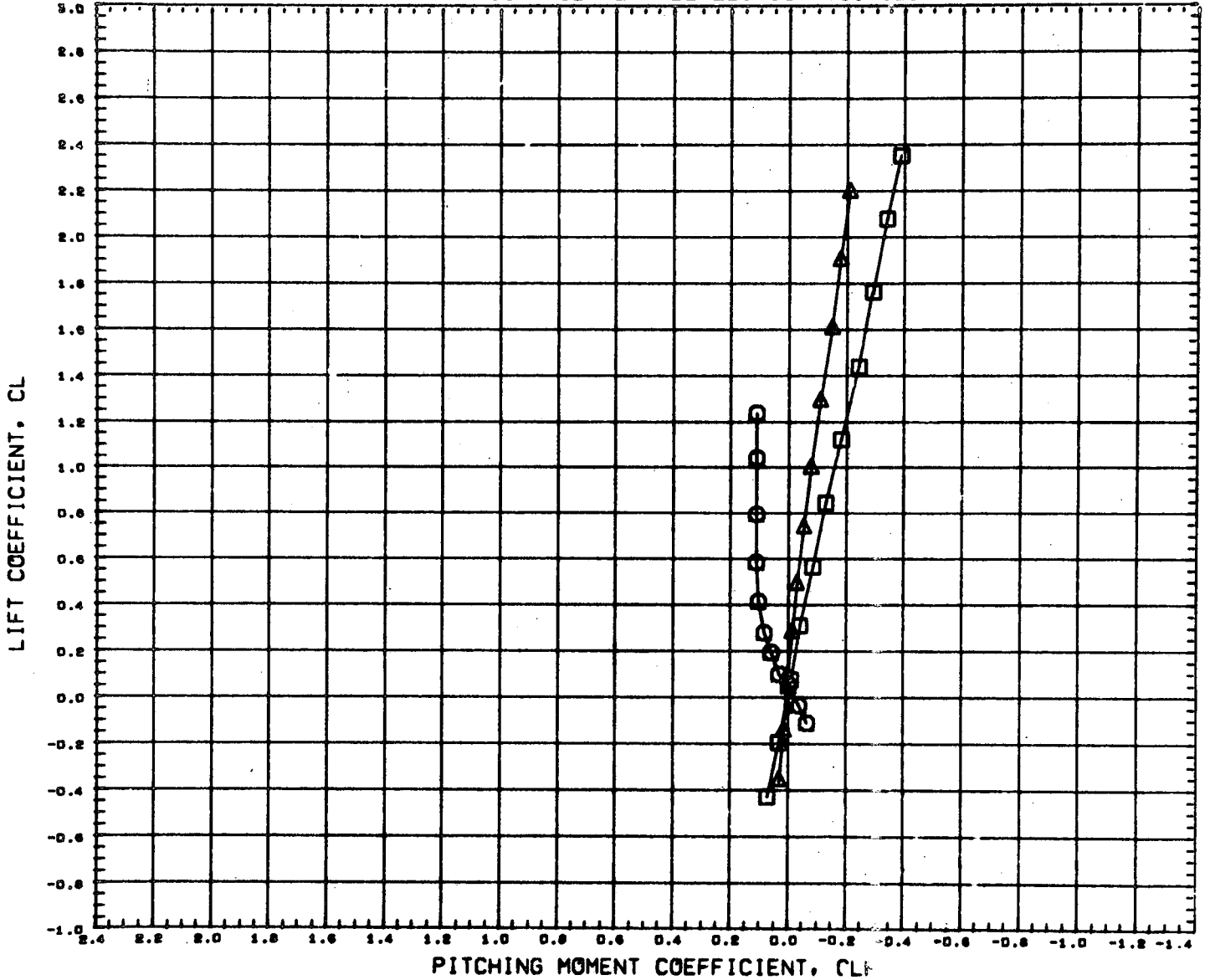


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	B34R6	B34R6T10	B34R6T17	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003366 BOOSTER				0.000	45.000			SRLF 0.9350 90. IN.
(D50010)	MSFC 512 GD/C .003366 BOOSTER				0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS				0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER				0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
									YMRP 0.0000 INCHES
									ZMRP 0.0000 INCHES
									SCALE 0.0034

MACH 1.986

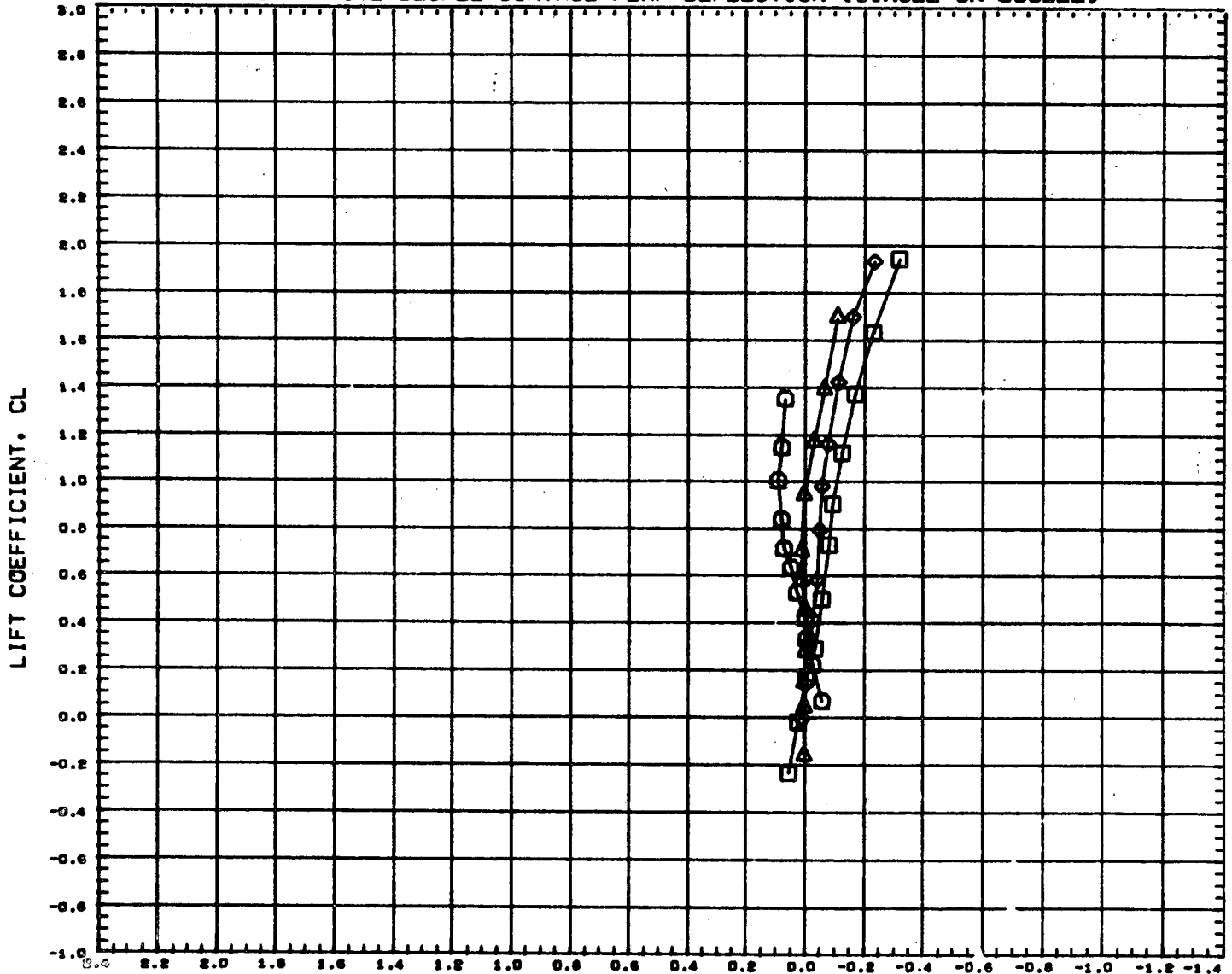
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 6D/C .003566 BOOSTER B34R6	0.000	45.000			JREF 0.9350 SQ. IN.
(D50010)	MSFC 512 6D/C .003566 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D50090)	MSFC 512 6D/C .003566 BOOSTER B34R6T17	0.000	0.000	35.000	59.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 8.740

EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)

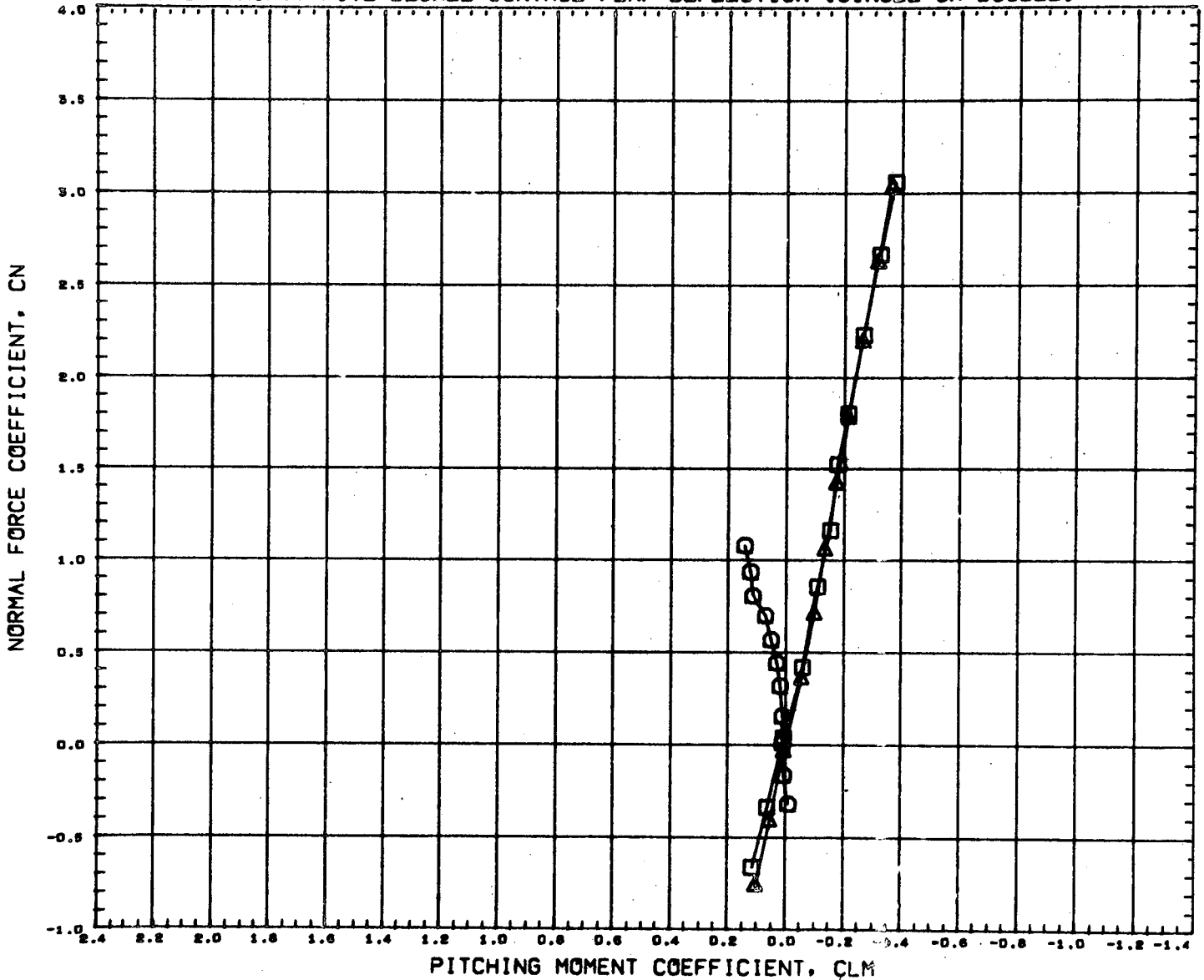


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	B34R6	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 6D/C .003366 BOOSTER	B34R6	0.000	45.000			SPEF 0.9350 80. IN.
(D50010)	MSFC 512 6D/C .003366 BOOSTER	B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50060)	MSFC 512 6D/C .003366 BOOSTER	B34R6T14	0.000	0.000	35.000	0.000	BREF 1.0010 INCHES
(D50090)	MSFC 512 6D/C .003366 BOOSTER	B34R6T17	0.000	0.000	35.000	35.000	XNRP 3.7920 INCHES YNRP 0.0000 INCHES ZNRP 0.0000 INCHES SCALE 0.0034

MACH 4.959

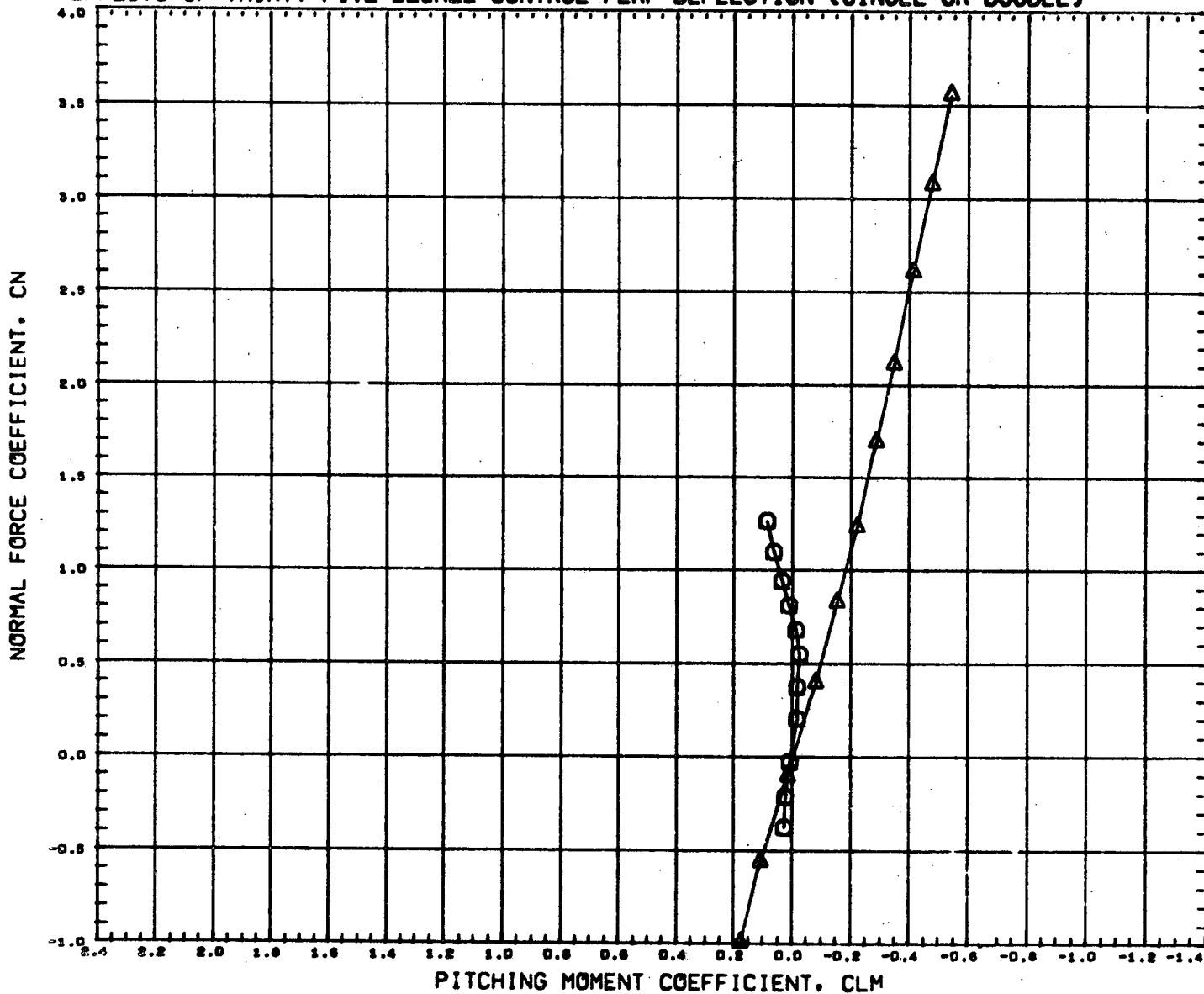
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D5D110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(D5D010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5D060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	1.000	BREF 1.0910 INCHES
(D5D090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	3.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)

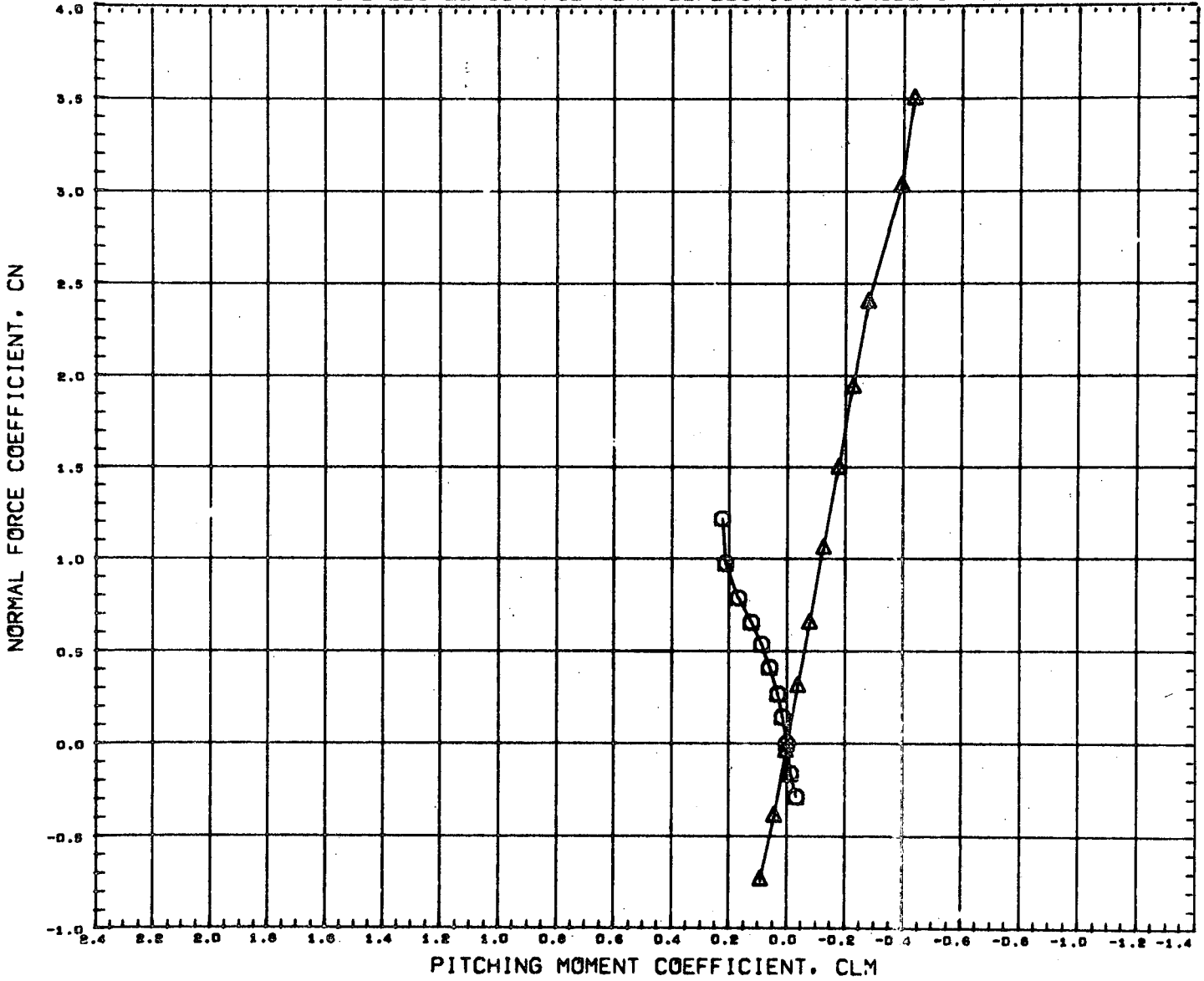


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(050110)	MBFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRE	0.9350 SQ. IN.
(050010)	MBFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(050060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	SNFP	1.0910 INCHES
(050090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMFP	0.0000 INCHES
						ZMFP	0.0000 INCHES
						SCALE	0.0034

MACH 0.000

EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)

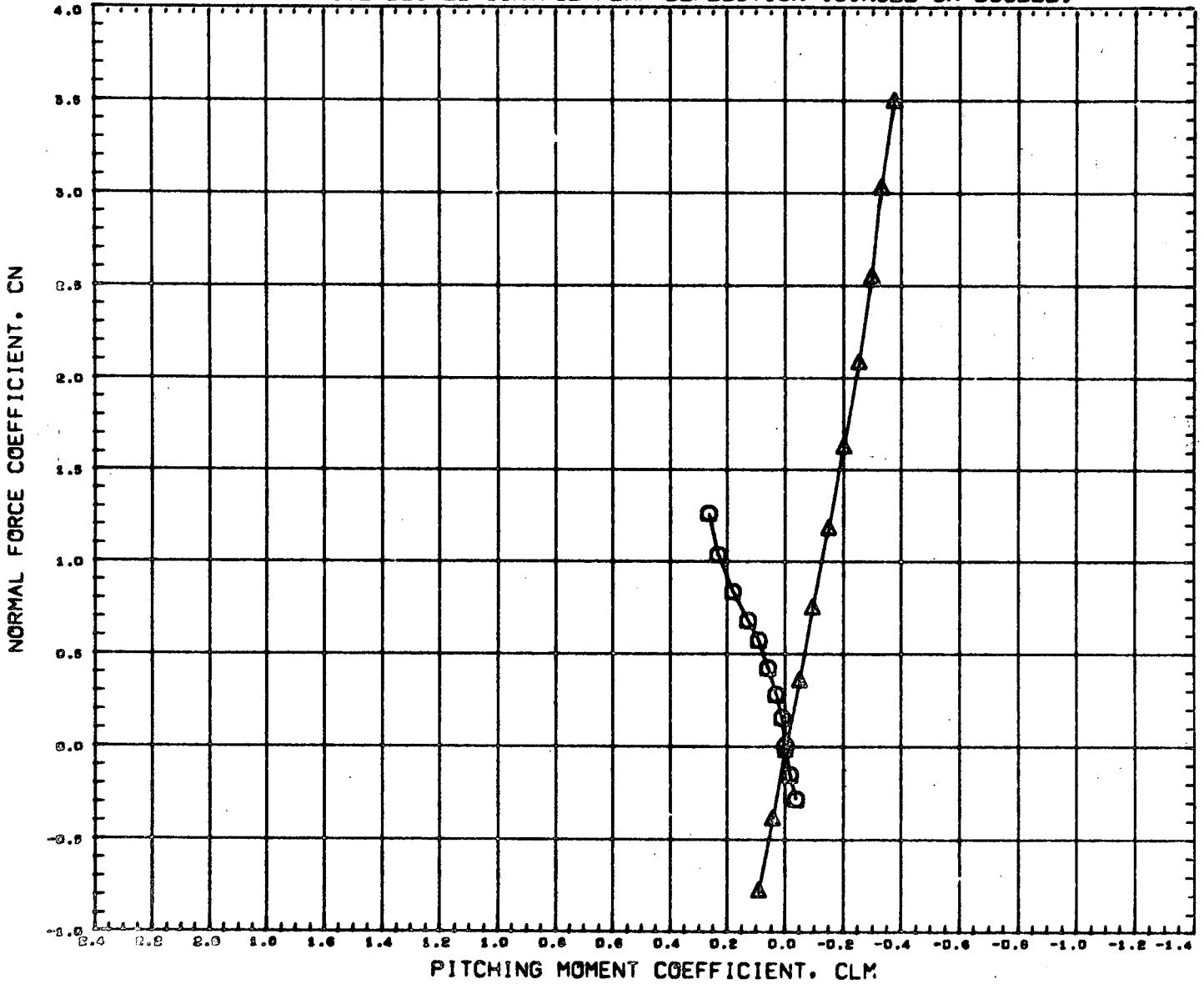


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50110)	MSFC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D50010)	MSFC 512 GD/C .003368 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(P50060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	SREF 1.0910 INCHES
(D50090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)

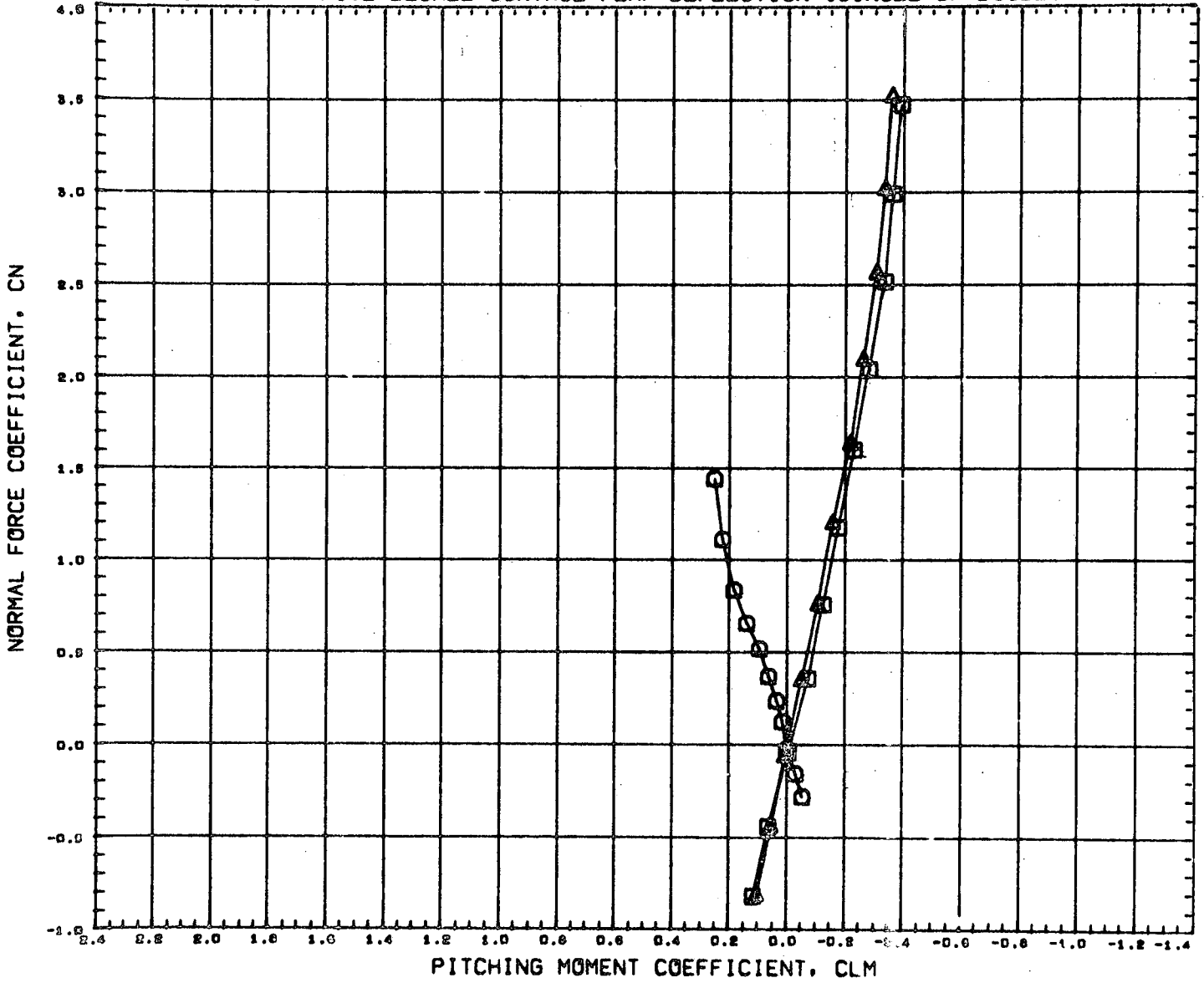


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(DS0110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			BREF	0.9350 80. IN.
(DS0010)	MSFC 512 GD/C .003366 BOOSTER B34RGT10	0.000	0.000	0.000	0.000	LREF	6.2510 INCHES
(DS0060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF	1.0910 INCHES
(DS0090)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

CHACH 1.801

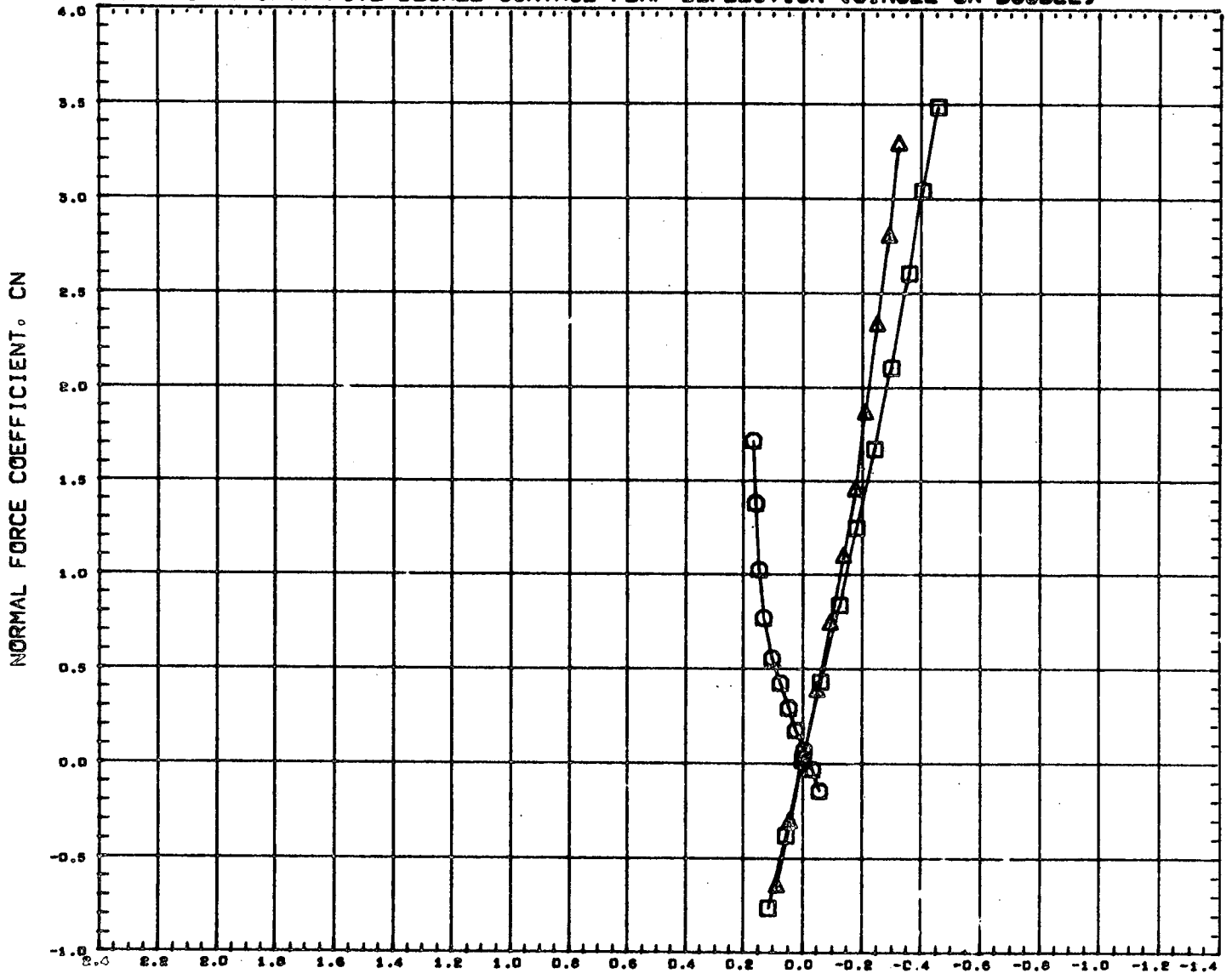
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIM00	LFLAP	RELAP	REFERENCE INFORMATION
(DS0110)	MSFC 512 GD/C .005366 BOOSTER B34R6	0.000	45.000			SNCF 0.9350 80. IN.
(DS0010)	MSFC 512 GD/C .005366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(DS0000)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	OREF 1.0910 INCHES
(DS0090)	MSFC 512 GD/C .005366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)

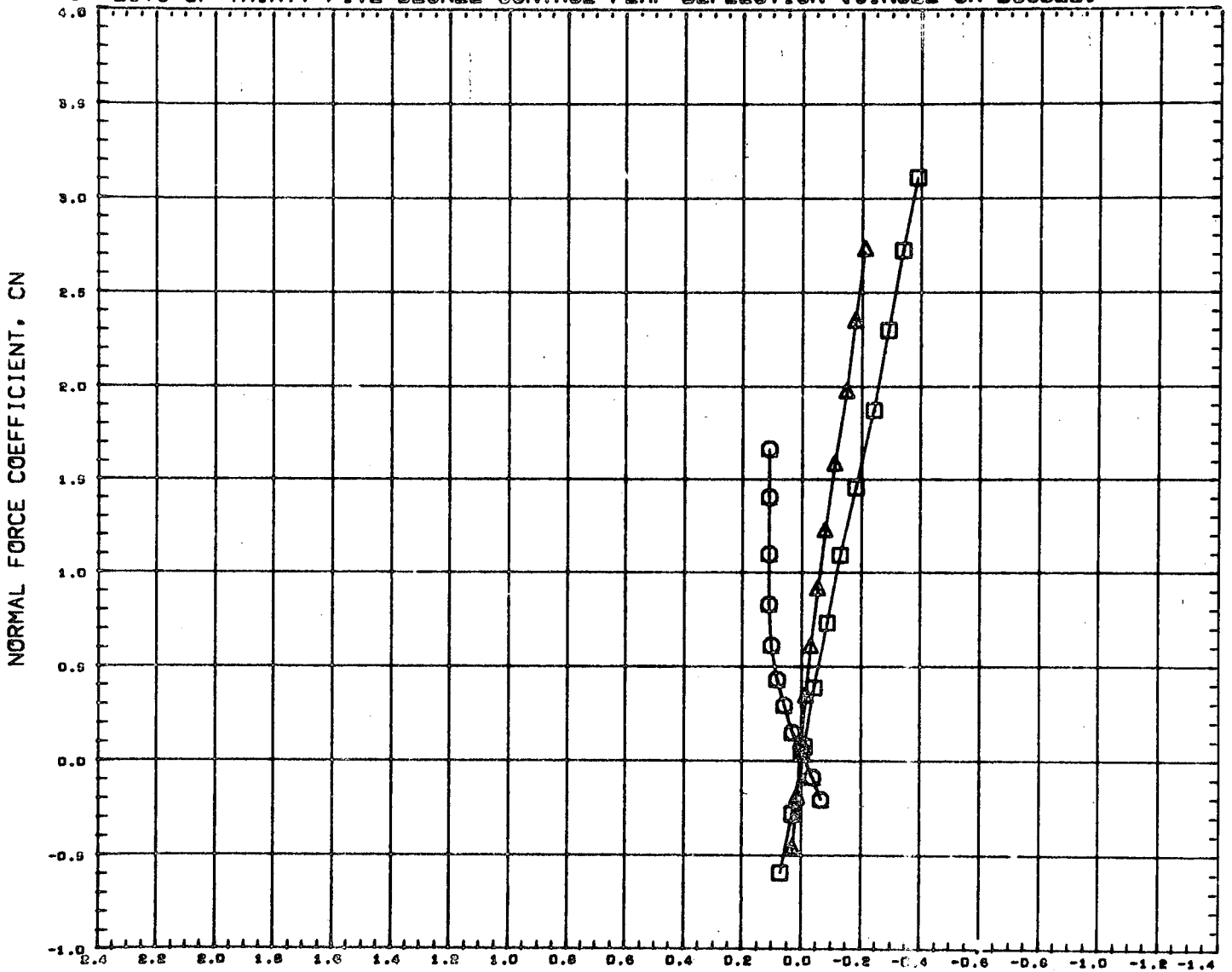


PITCHING MOMENT COEFFICIENT, Cm

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	CREF 0.9350 SQ. IN.
(050010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(050060)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(050090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)

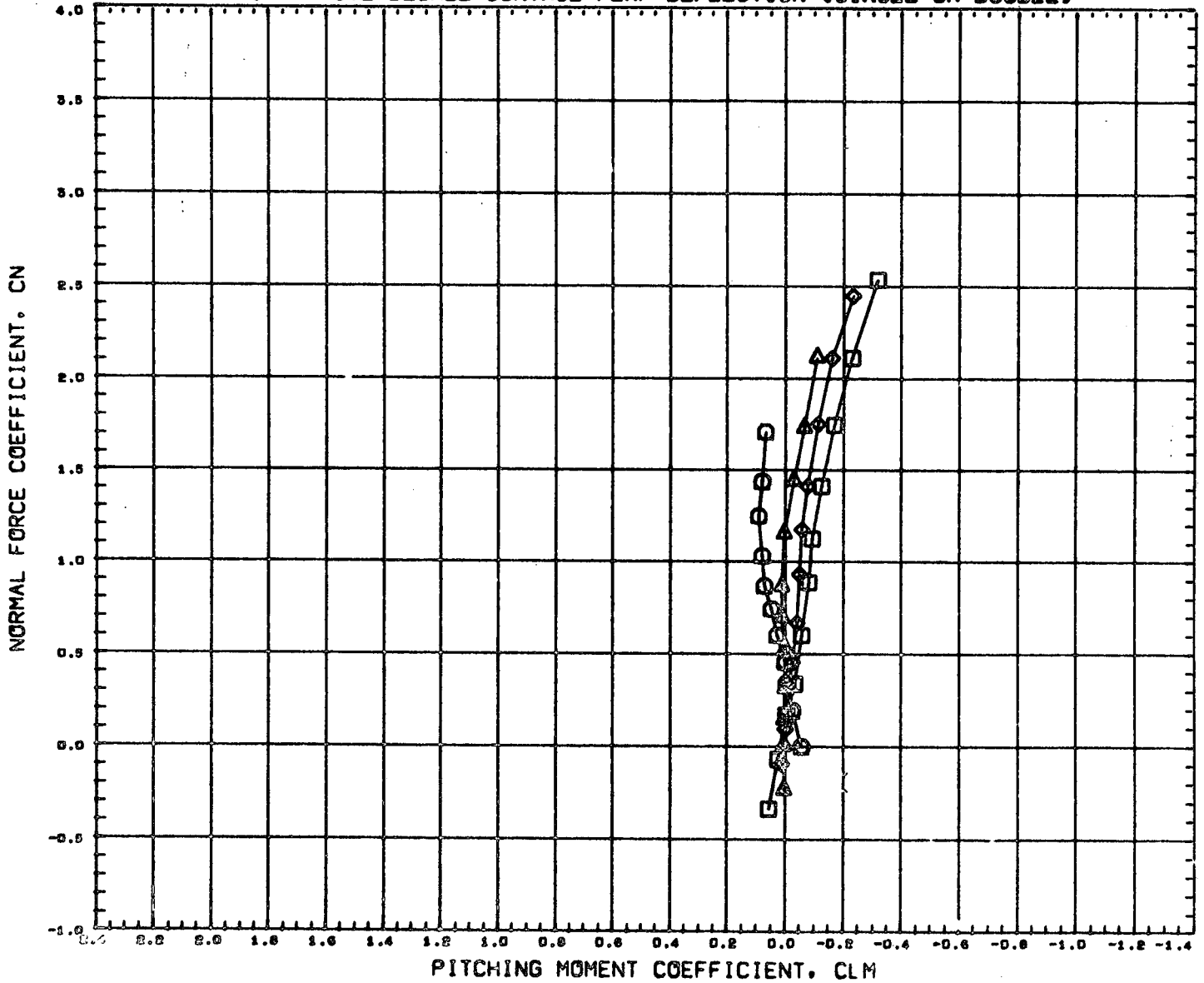


PITCHING MOMENT COEFFICIENT, CLM

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D90110)	○	MSFC 512 GD/C .003336 BOOSTER 834R6	0.000	45.000	0.000	0.000	SFTF 0.9350 SQ. IN.
(D90010)	△	MSFC 512 GD/C .003336 BOOSTER 834R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90000)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(D80000)	□	MSFC 512 GD/C .003336 BOOSTER 834R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
							YMRF 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 2.740

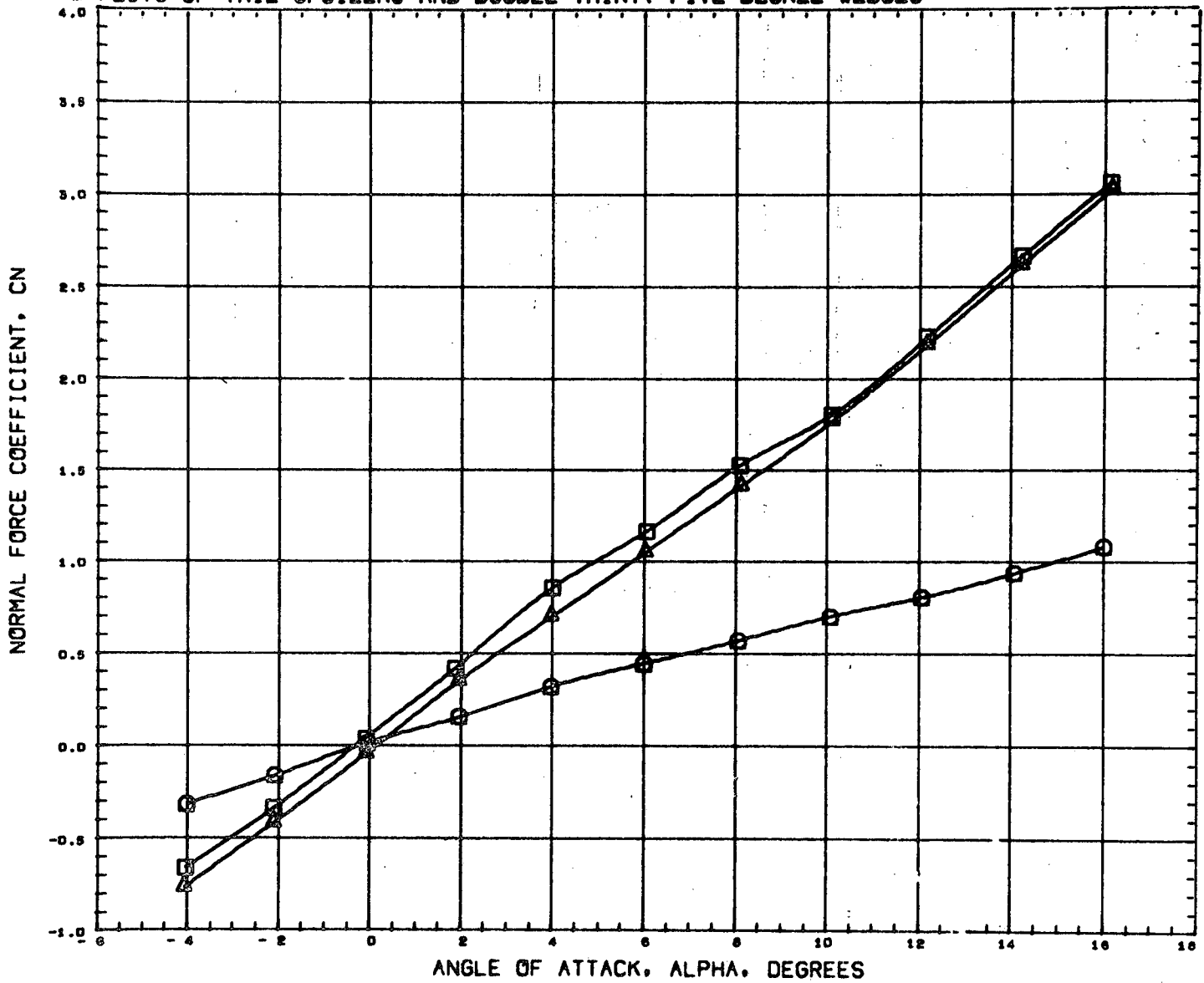
EFFECTS OF THIRTY-FIVE DEGREE CONTROL FLAP DEFLECTION (SINGLE OR DOUBLE)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(050110)	NSFC 512 6D/C .003900 BOOSTER B34R0	0.000	45.000	0.000	0.000	REF 0.9350 80. IN.
(050010)	NSFC 512 6D/C .003900 BOOSTER B34R8T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(050060)	NSFC 512 6D/C .003900 BOOSTER B34R8T14	0.000	0.000	35.000	0.000	BREF 1.0910 INCHES
(050000)	NSFC 512 6D/C .003900 BOOSTER B34R8T17	0.000	0.000	35.000	35.000	ANKP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

HACH 4.050

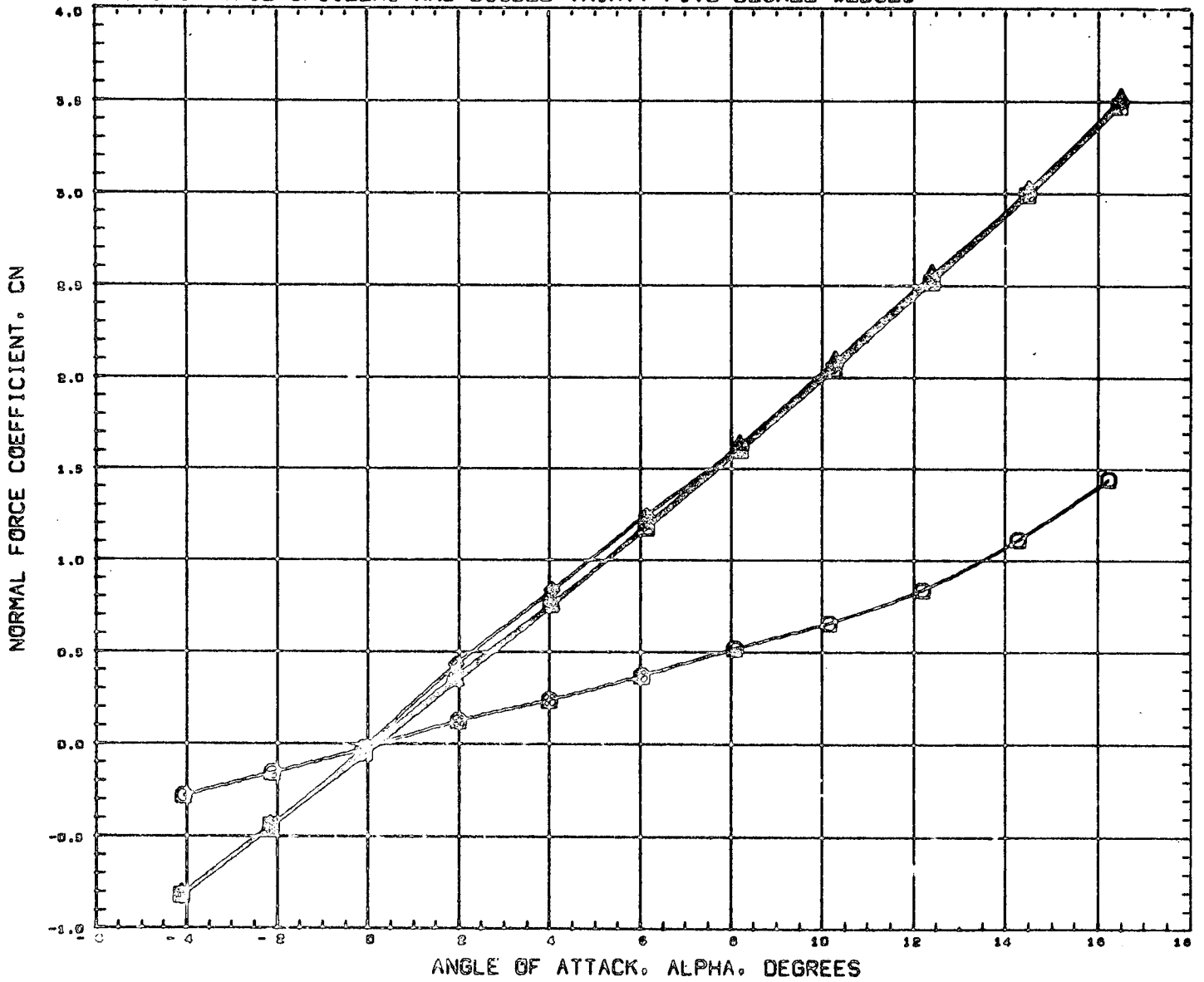
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SPTF 0.9350 SQ. IN.
(E5001A)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50070)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	M8FC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	YMRP 3.7920 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

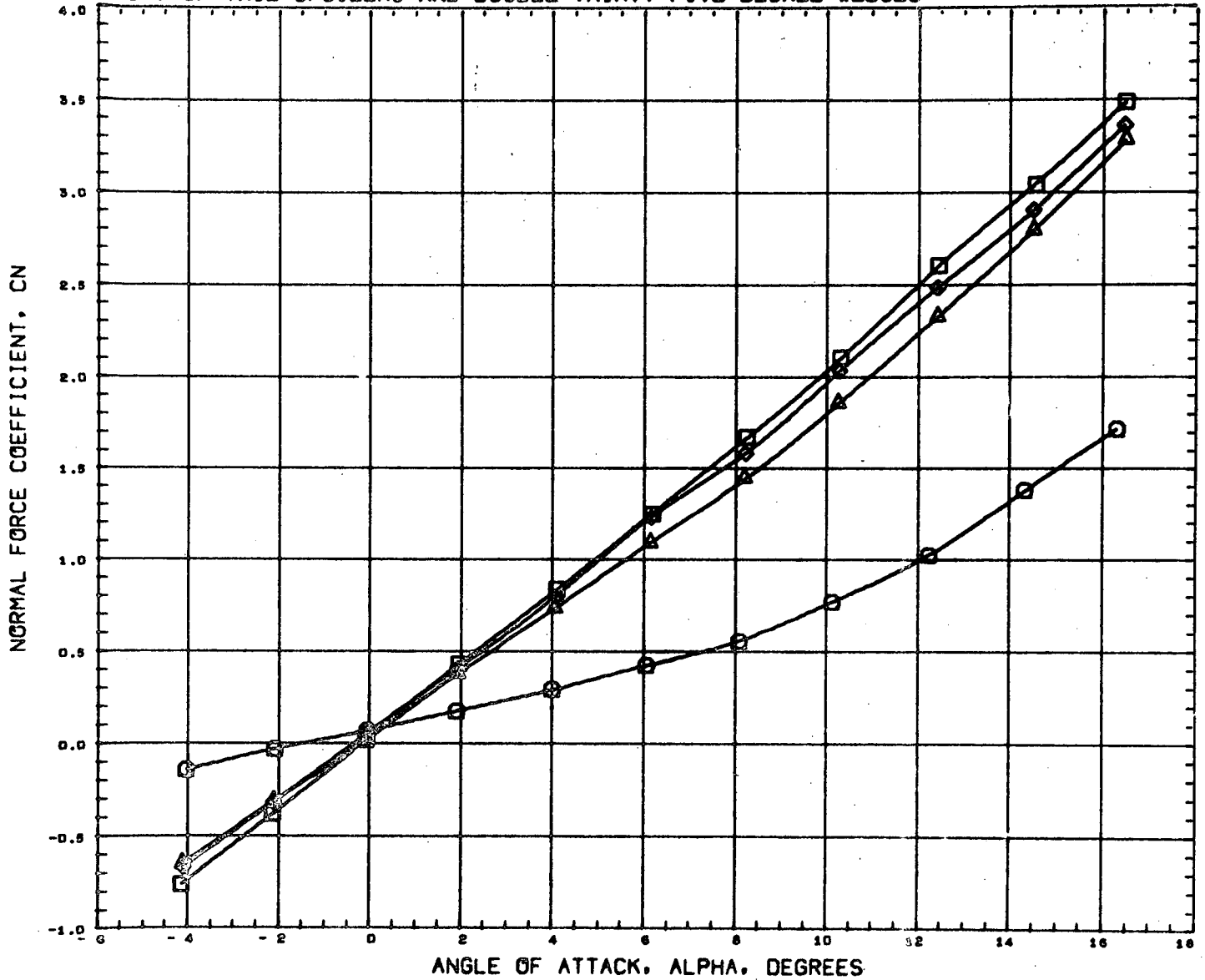
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001A)	WDFC 512 CD/C .000000 CLOOTER	0.000	45.000			SR IT 0.9390 SQ. IN.
(E8001A)	WDFC 512 CD/C .000000 CLOOTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D80070)	WDFC 512 CD/C .000000 CLOOTER	0.000	0.000			BREF 1.0610 INCHES
(D80000)	WDFC 512 CD/C .000000 CLOOTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.400

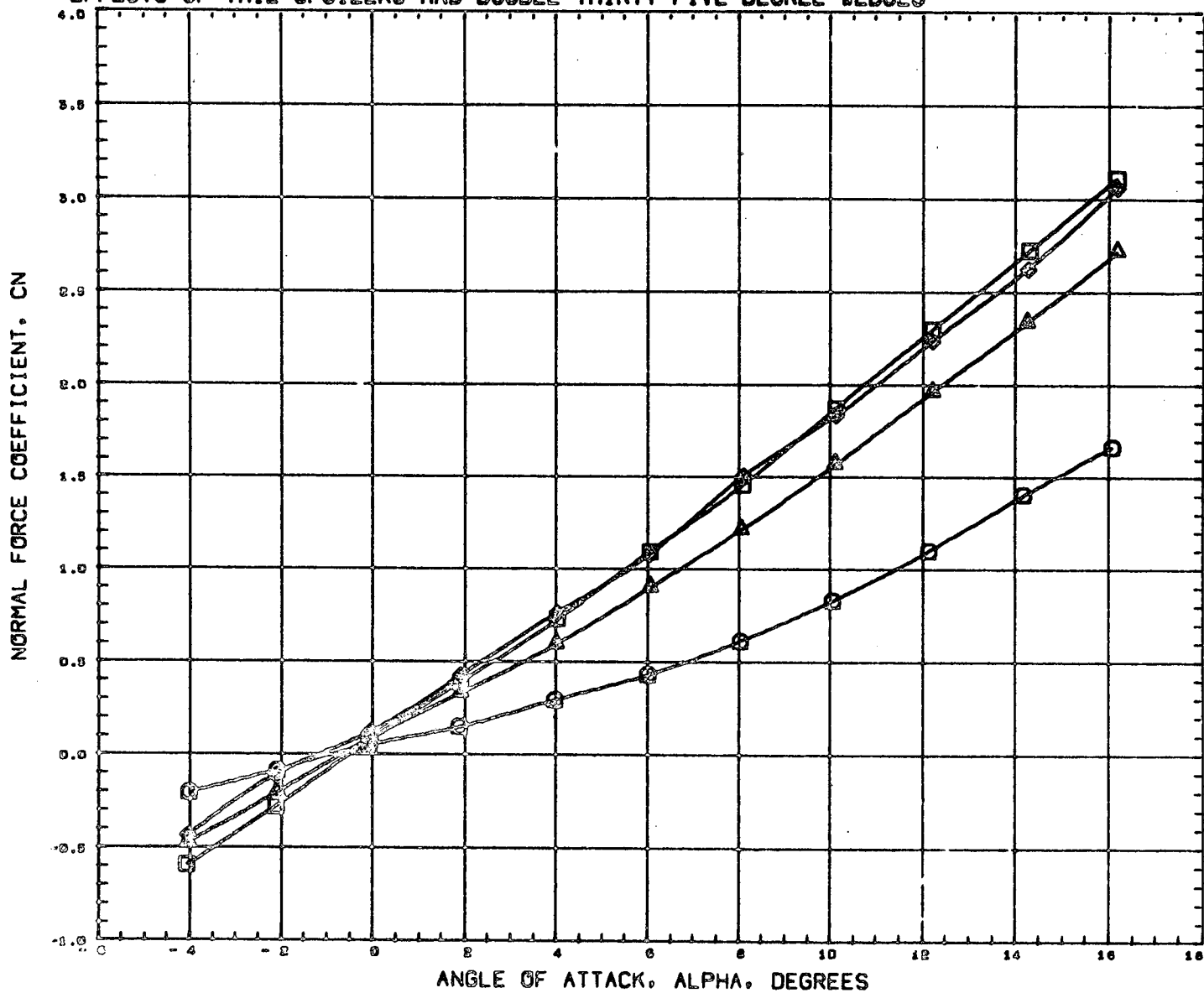
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003968 BOOSTER B34R6	0.000	45.000			SRE 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003968 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	MSFC 512 GD/C .003968 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003968 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.066

EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES

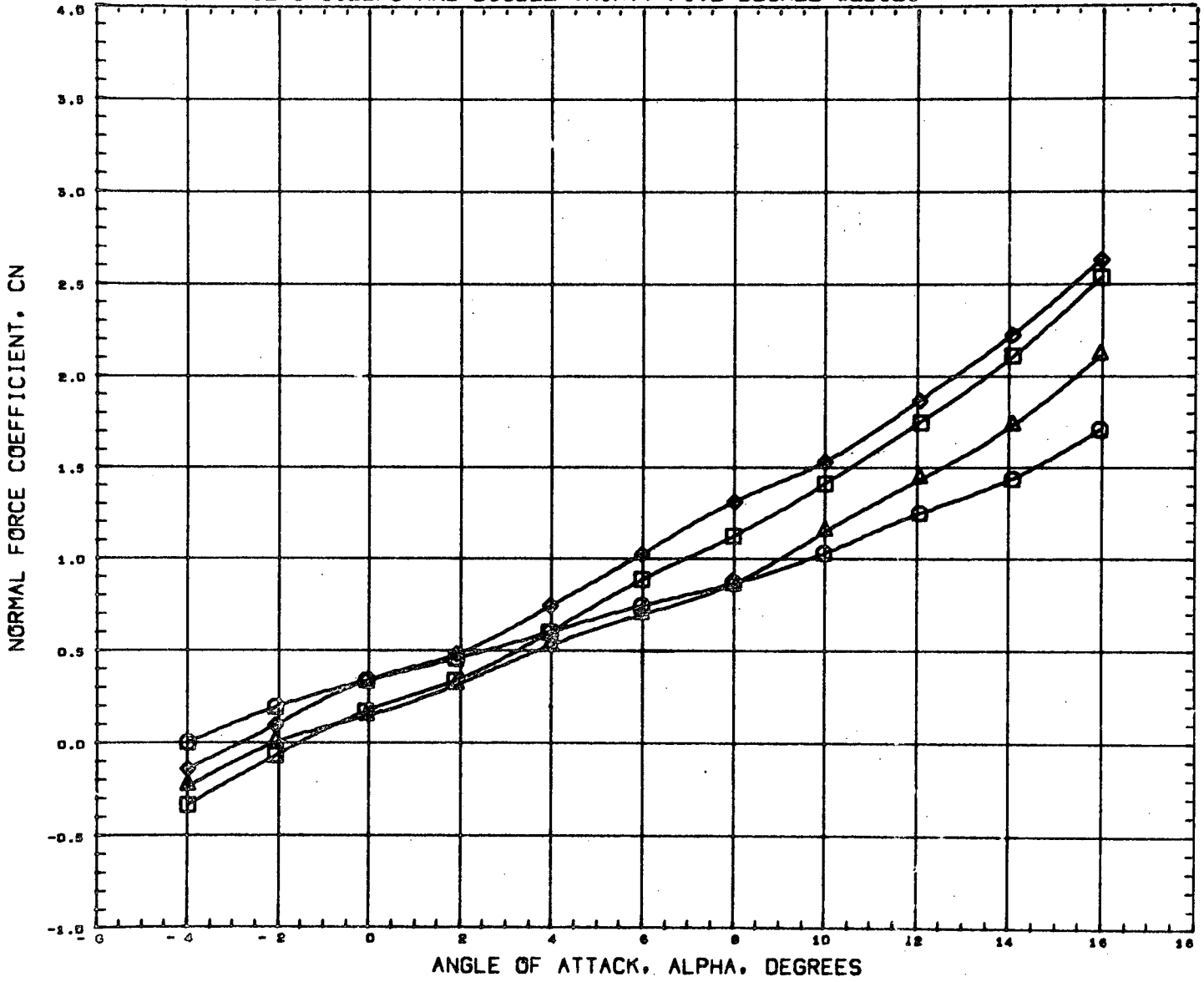


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SZY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSPC 312 GD/C .003900 COOBYER B34RG6	0.000	45.000			SREF 0.9550 SQ. IN.
(E9001A)	MSPC 312 GD/C .003900 COOBYER B34RGT10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9007D)	MSPC 312 GD/C .003900 COOBYER B34RGT19	0.000	0.000			BREF 1.0910 INCHES
(D9000D)	MSPC 312 GD/C .003900 COOBYER B34RGT17	0.000	0.000	35.000	35.000	XNRF 3.7920 INCHES YNRF 0.0000 INCHES ZNRF 0.0000 INCHES SCALE 0.0034

HACH 2.740

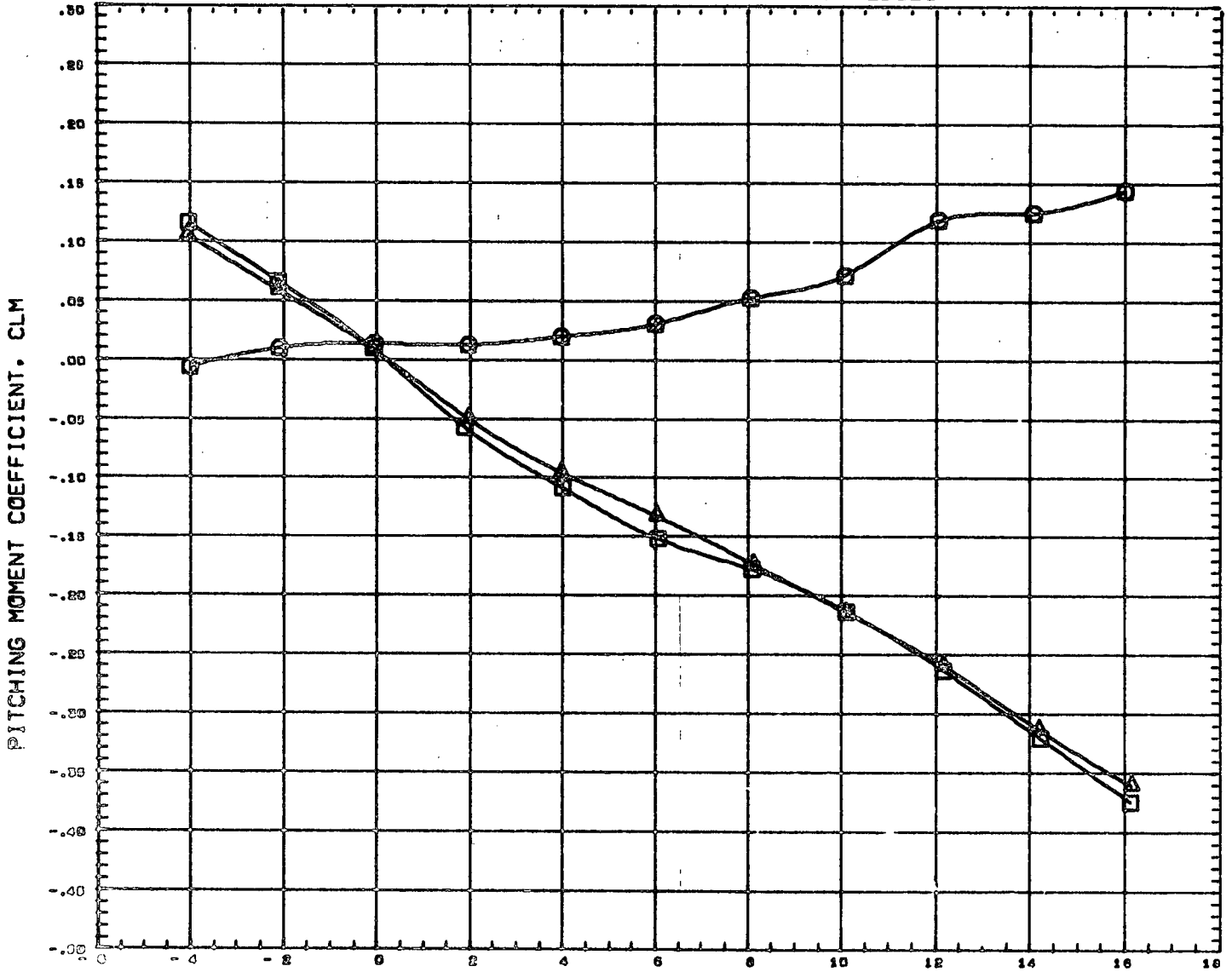
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	H8FC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E5001A)	H8FC 512 GD/C .003308 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	H8FC 512 GD/C .003368 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	H8FC 512 GD/C .003368 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

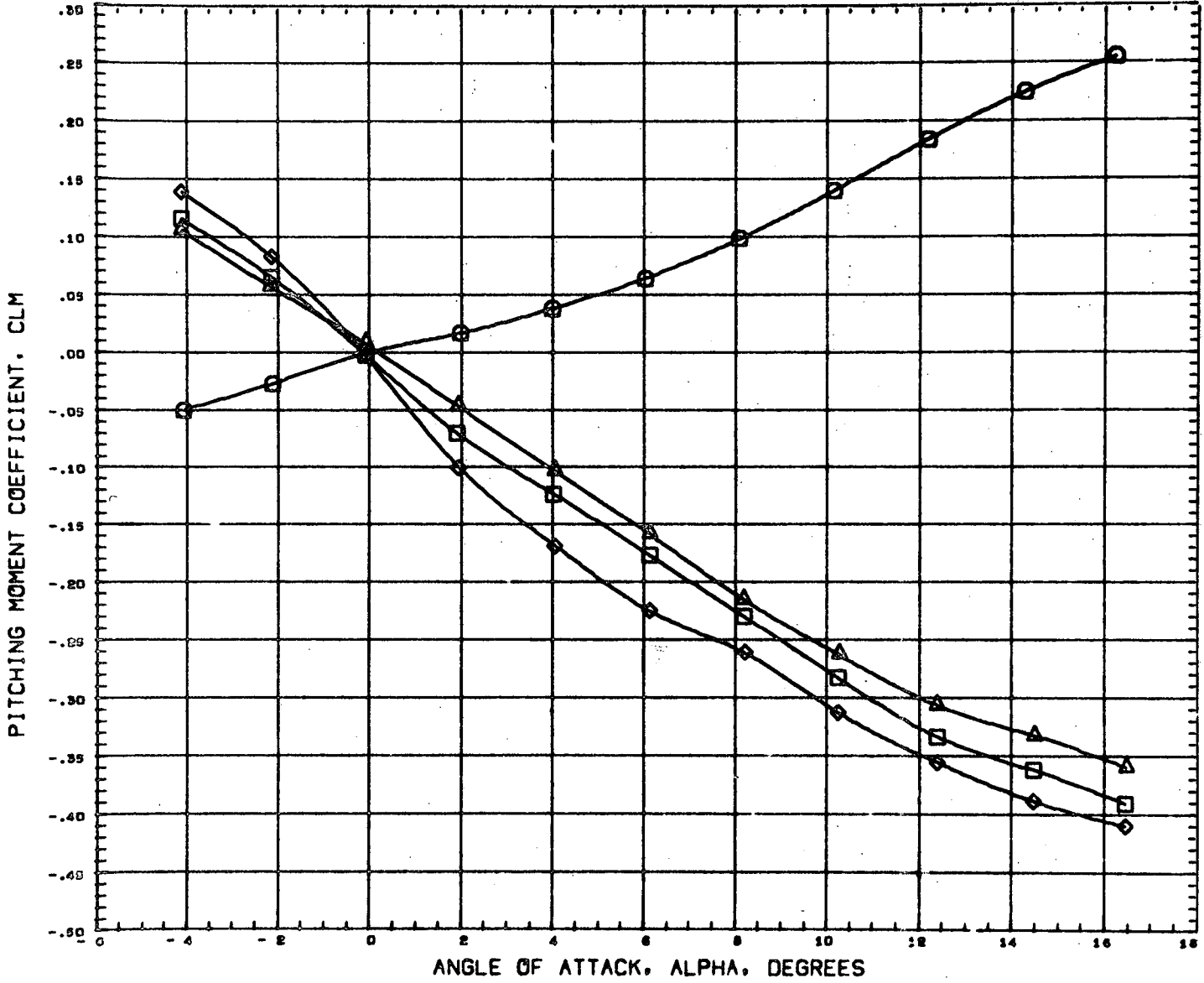
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SYM	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9018A)	□	M8FC 512 GD/C .003800 80087R B34RG	0.000	45.000			SALF 0.9350 80. IN.
(E9001A)	□	M8FC 512 GD/C .003800 80087R B34RG710	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50070)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D90000)	□	M8FC 512 GD/C .003800 80087R B34RG717	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 0.603

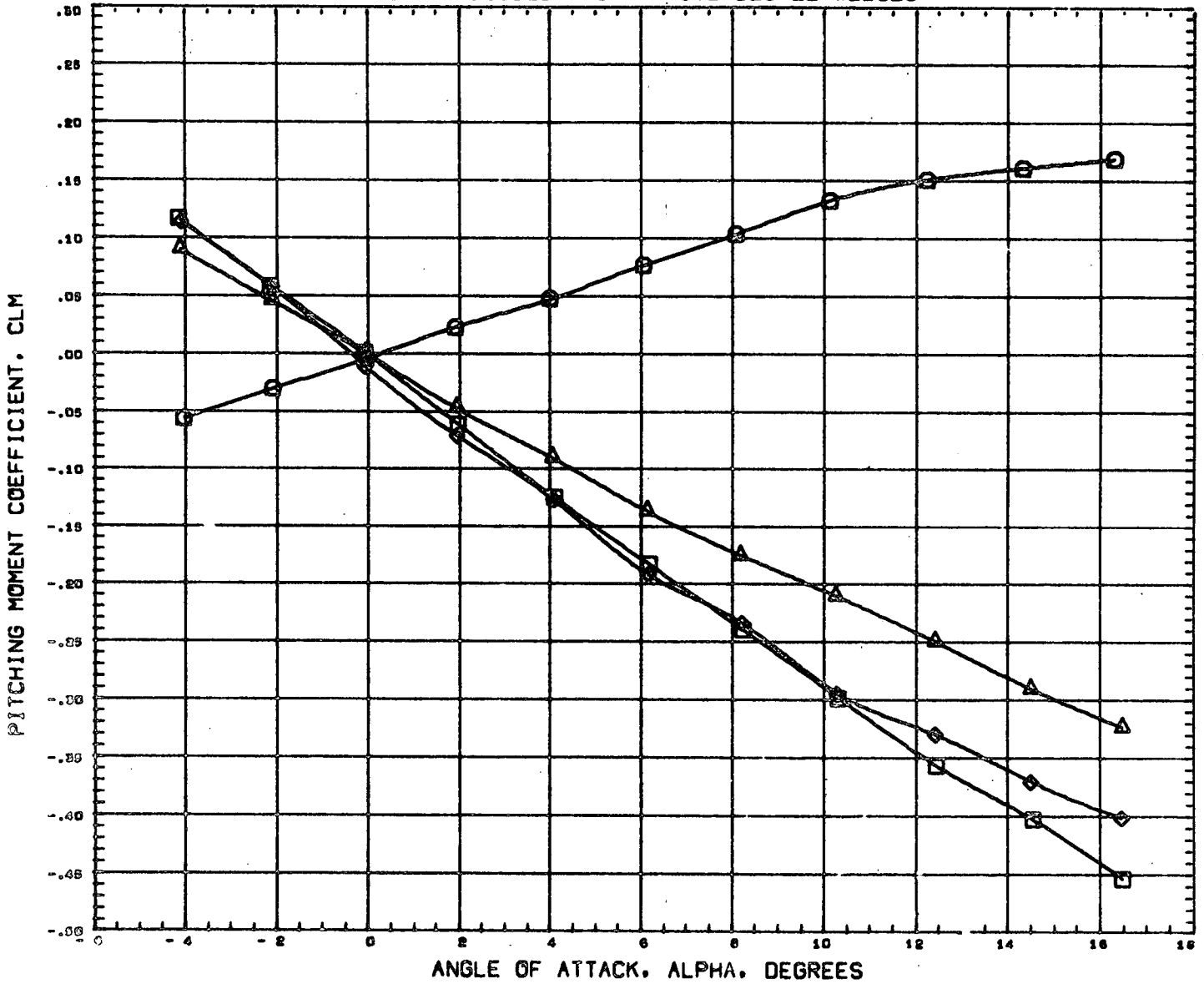
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 82. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.800	LREF 6.2310 INCHES
(D50070)	MSFC 512 GD/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

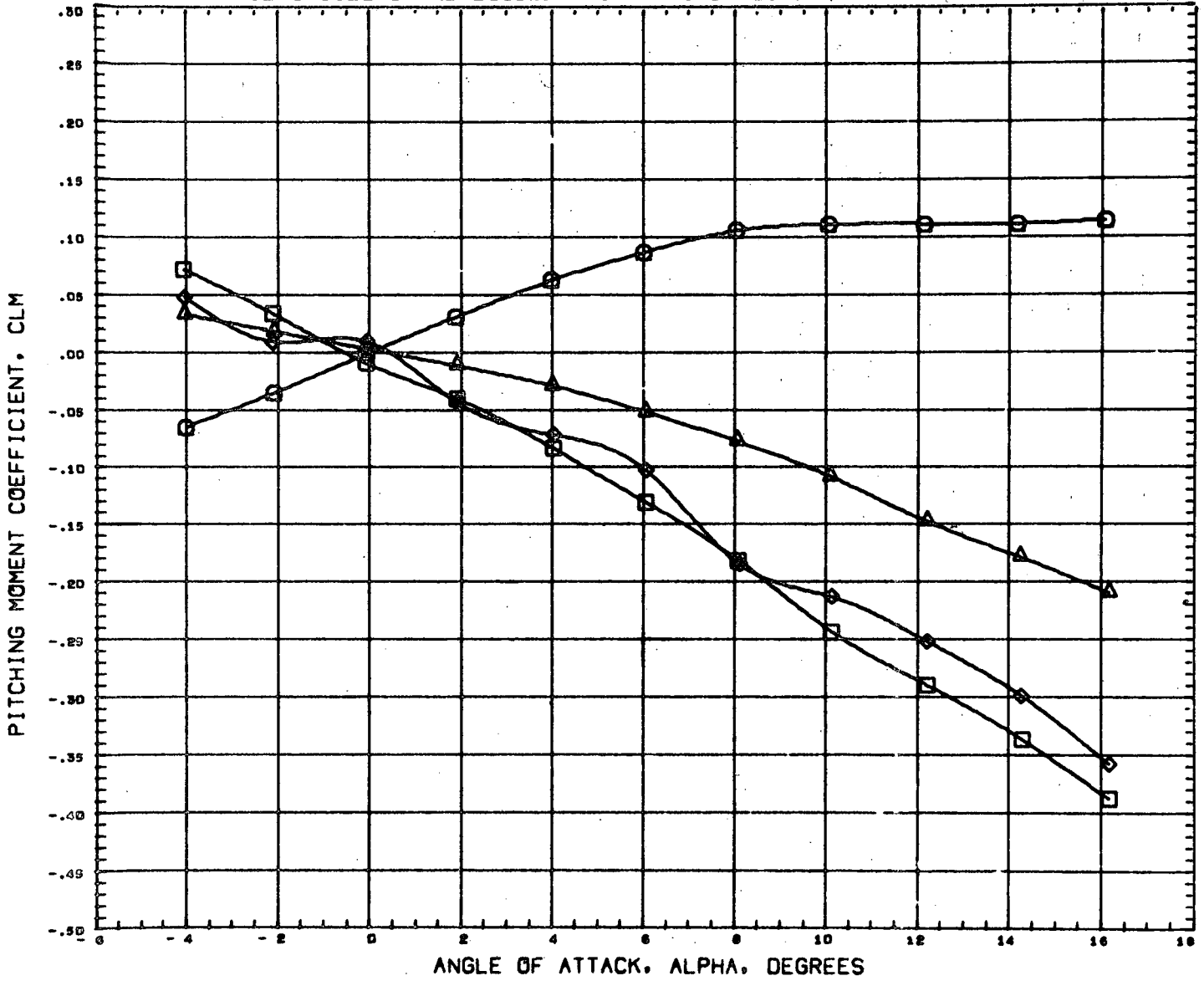
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 6D/C .003366 BOOSTER B34R6	0.000	45.000			SRFF 0.9350 80. IN.
(E9001A)	MSFC 512 6D/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90070)	MSFC 512 6D/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D90060)	MSFC 512 6D/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.986

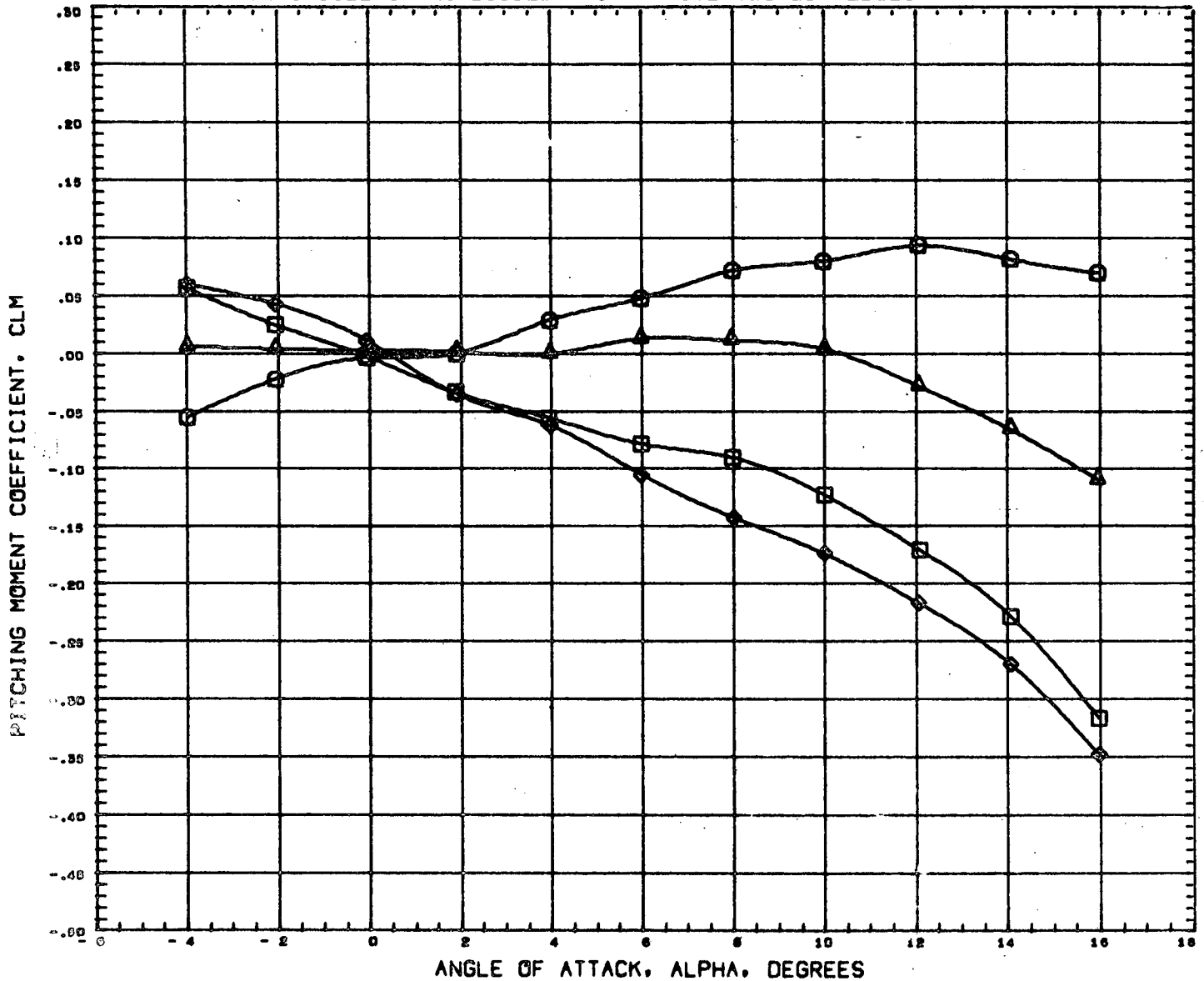
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5D11A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 89. IN.
(E5D01A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5D07D)	MSFC 512 GD/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D5D09D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.300	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

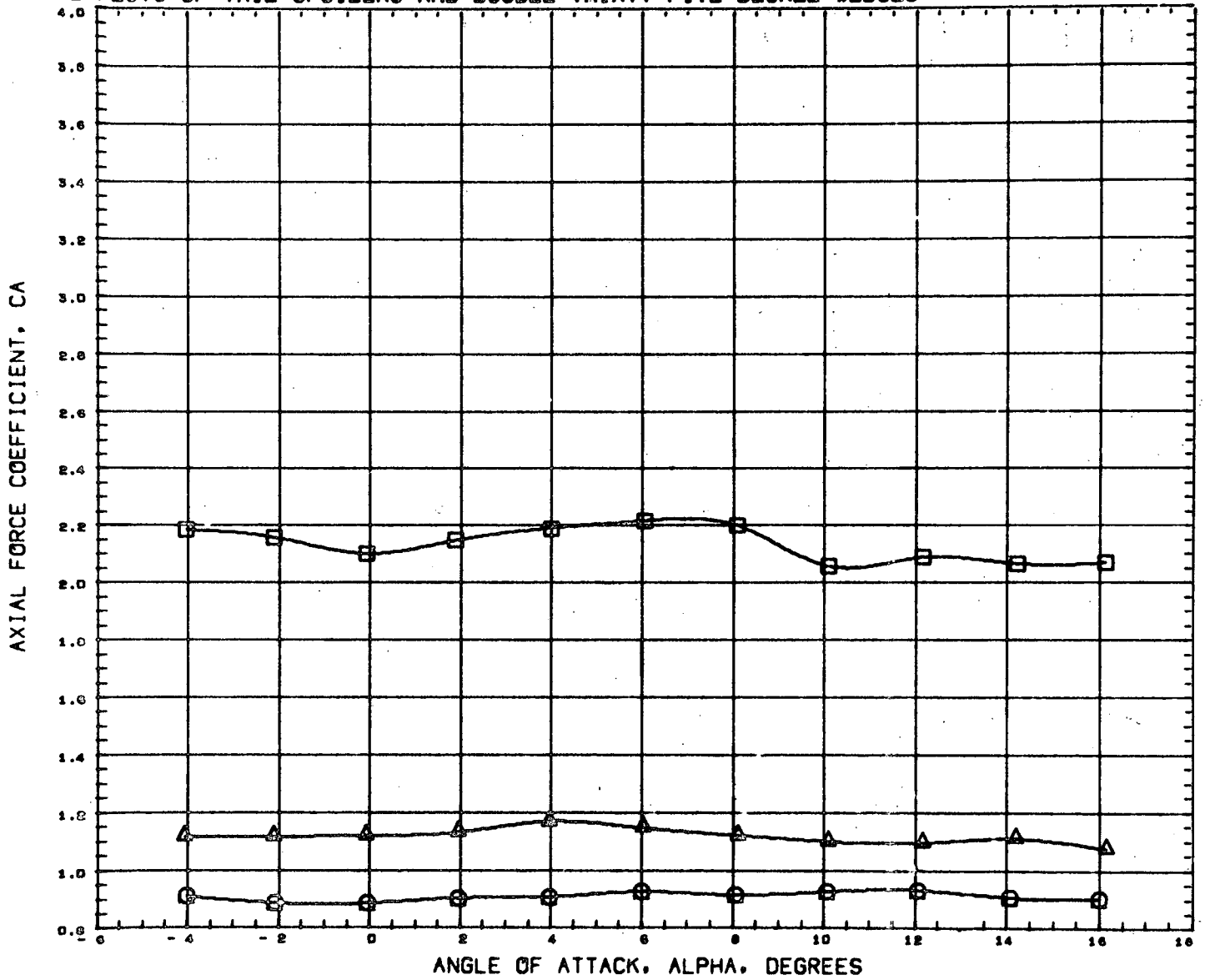
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SRLF 0.9350 80. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XNRP 3.7920 INCHES
						YNRP 0.0000 INCHES
						ZNRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.899

EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES

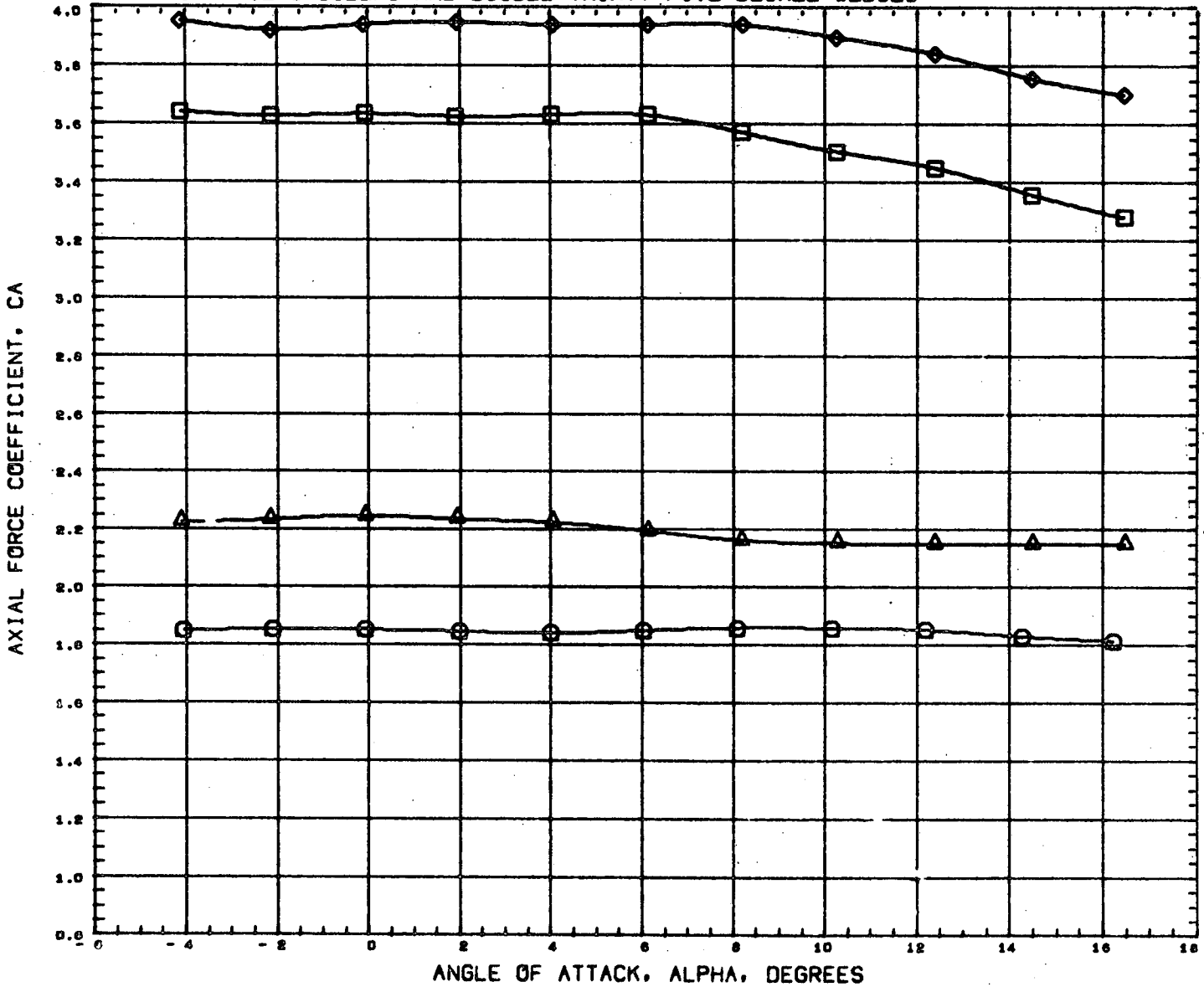


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SFCF 0.9350 89. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.602

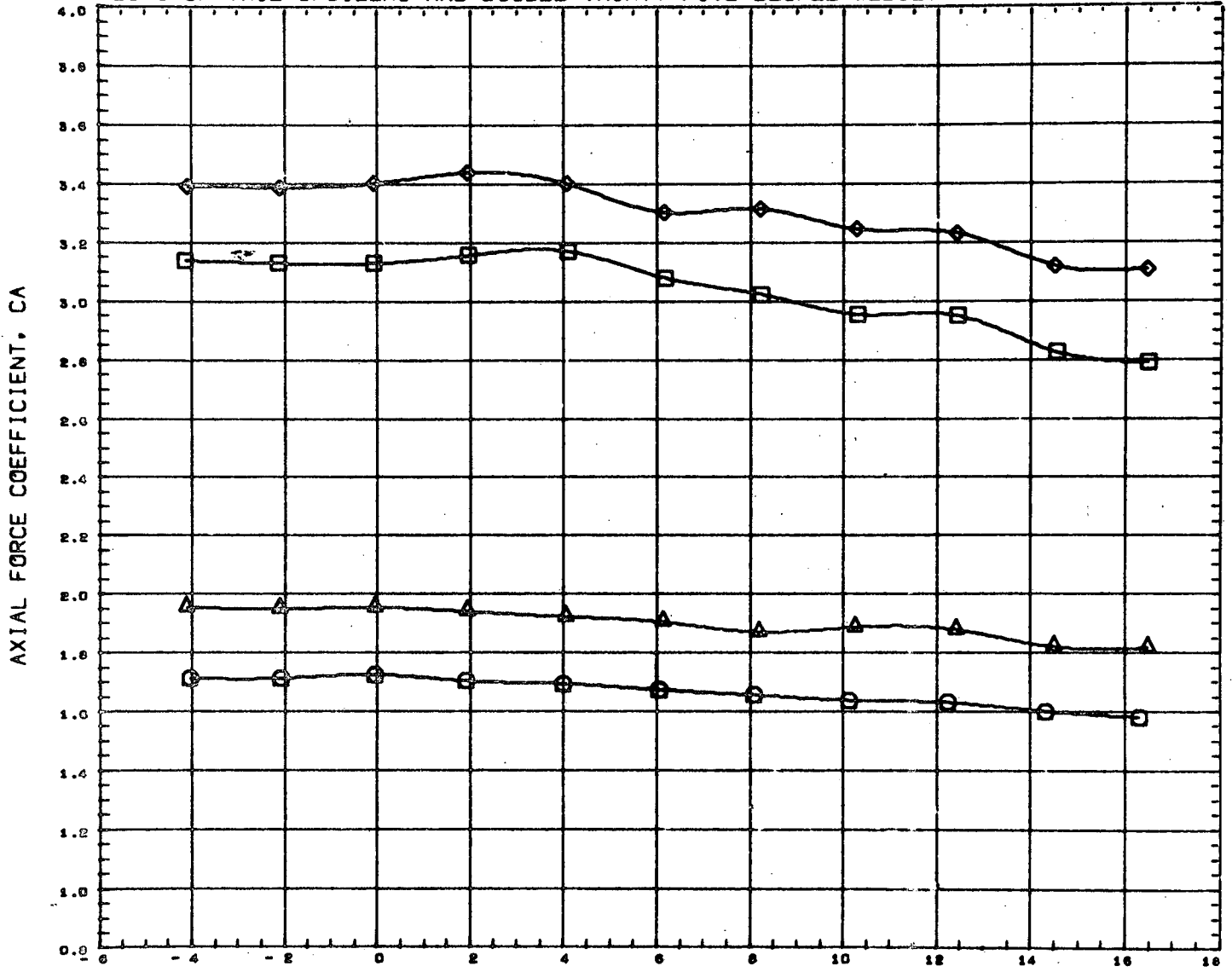
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	◇	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRLF 0.9350 80. IN.
(E5001A)	△	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	○	MSFC 512 GD/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 1.458

EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES

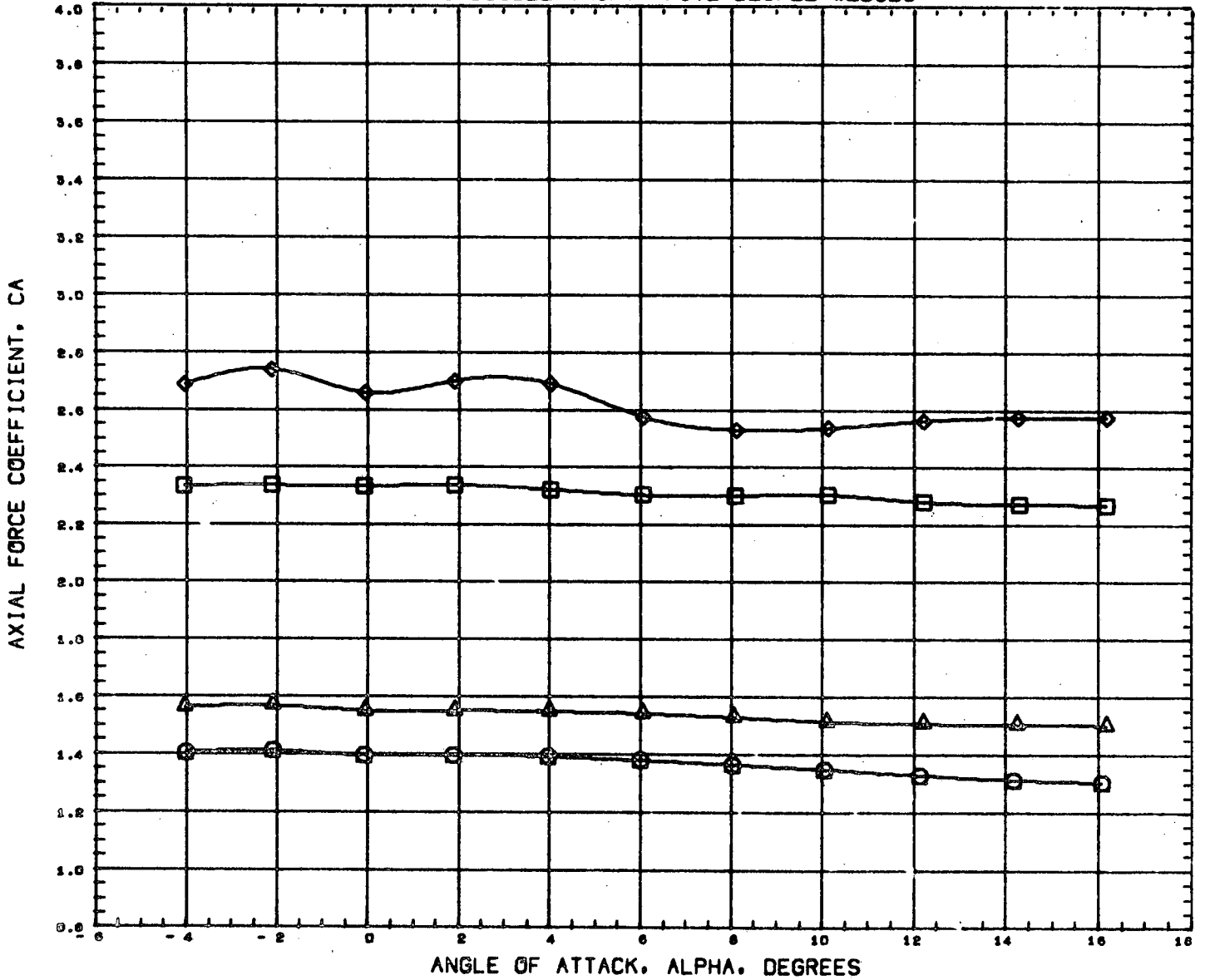


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	○	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SI CF 0.9350 SQ. IN.
(E9001A)	△	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50070)	◇	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50000)	□	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XNRF 3.7920 INCHES
							YNRF 0.0000 INCHES
							ZNRF 0.0000 INCHES
							SCALE 0.0034

MACH 1.966

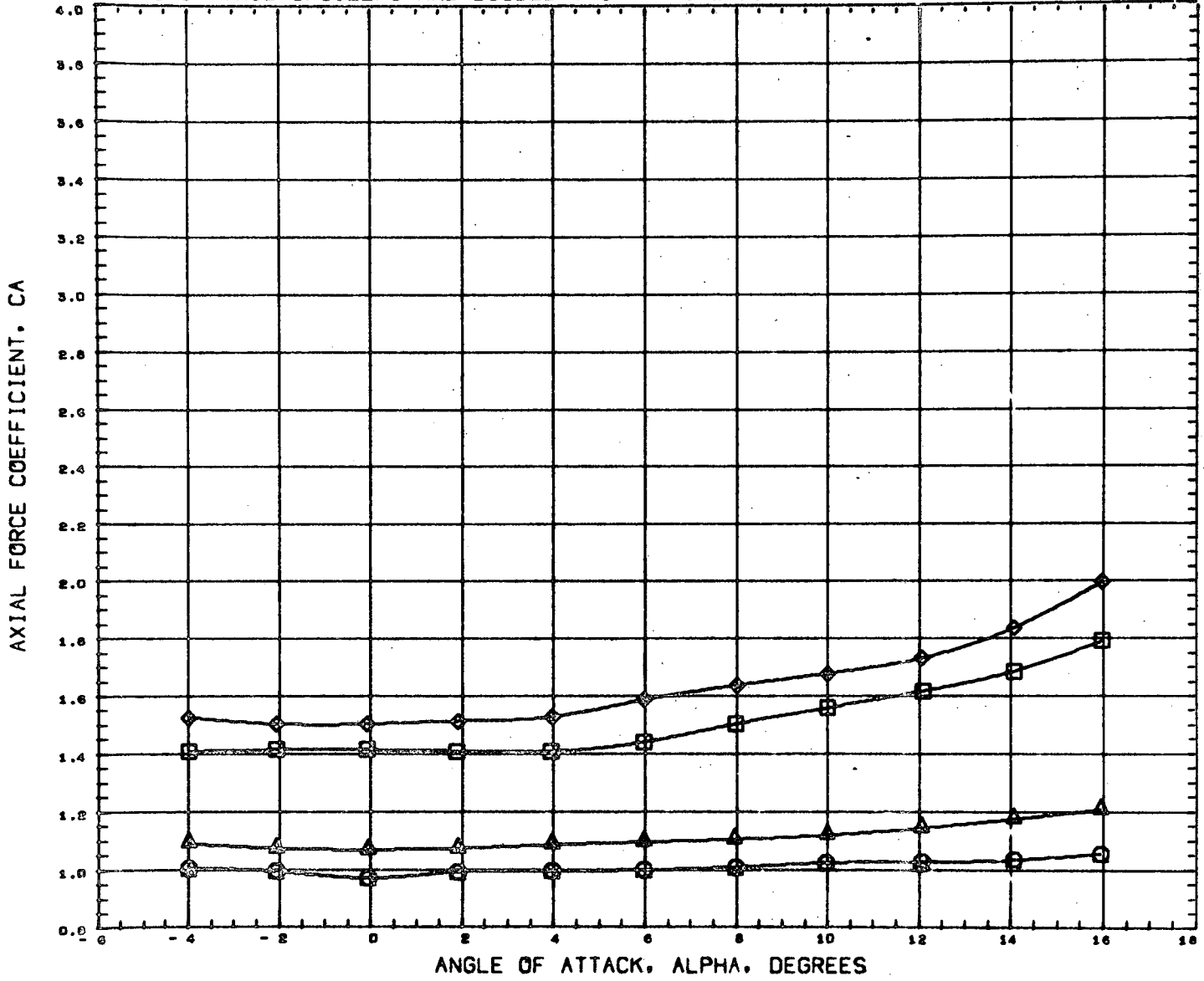
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 DOOSTER	0.000	45.000			SPEF 0.9350 80. IN.
(E5001A)	MSFC 512 GD/C .003366 DOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	MSFC 512 GD/C .003366 DOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003366 DOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

HACH 2.740

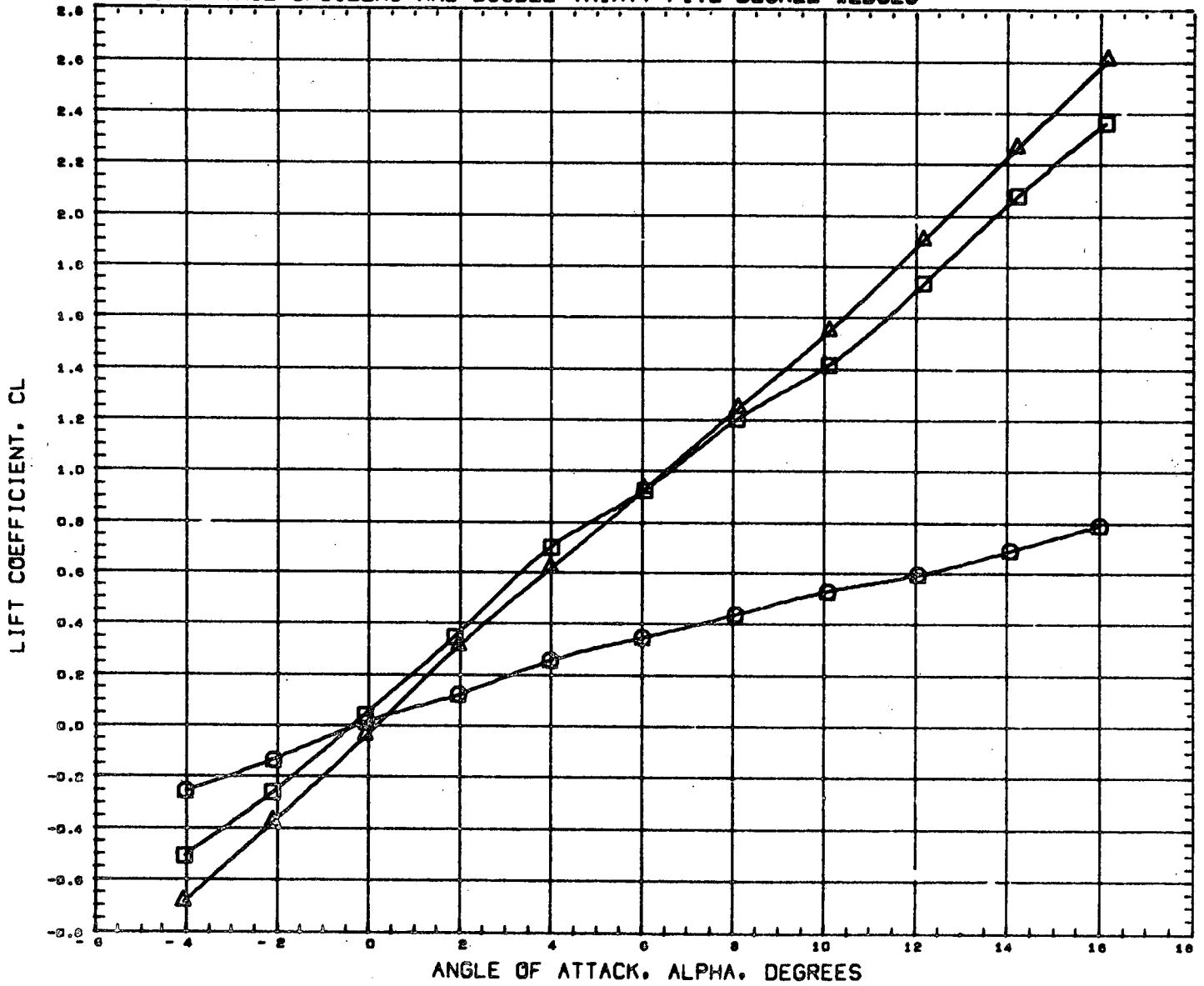
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	NSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRE 0.9350 SQ. IN.
(E9001A)	NSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.300	LREF 6.2310 INCHES
(D50070)	NSFC 512 GD/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D50000)	NSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.958

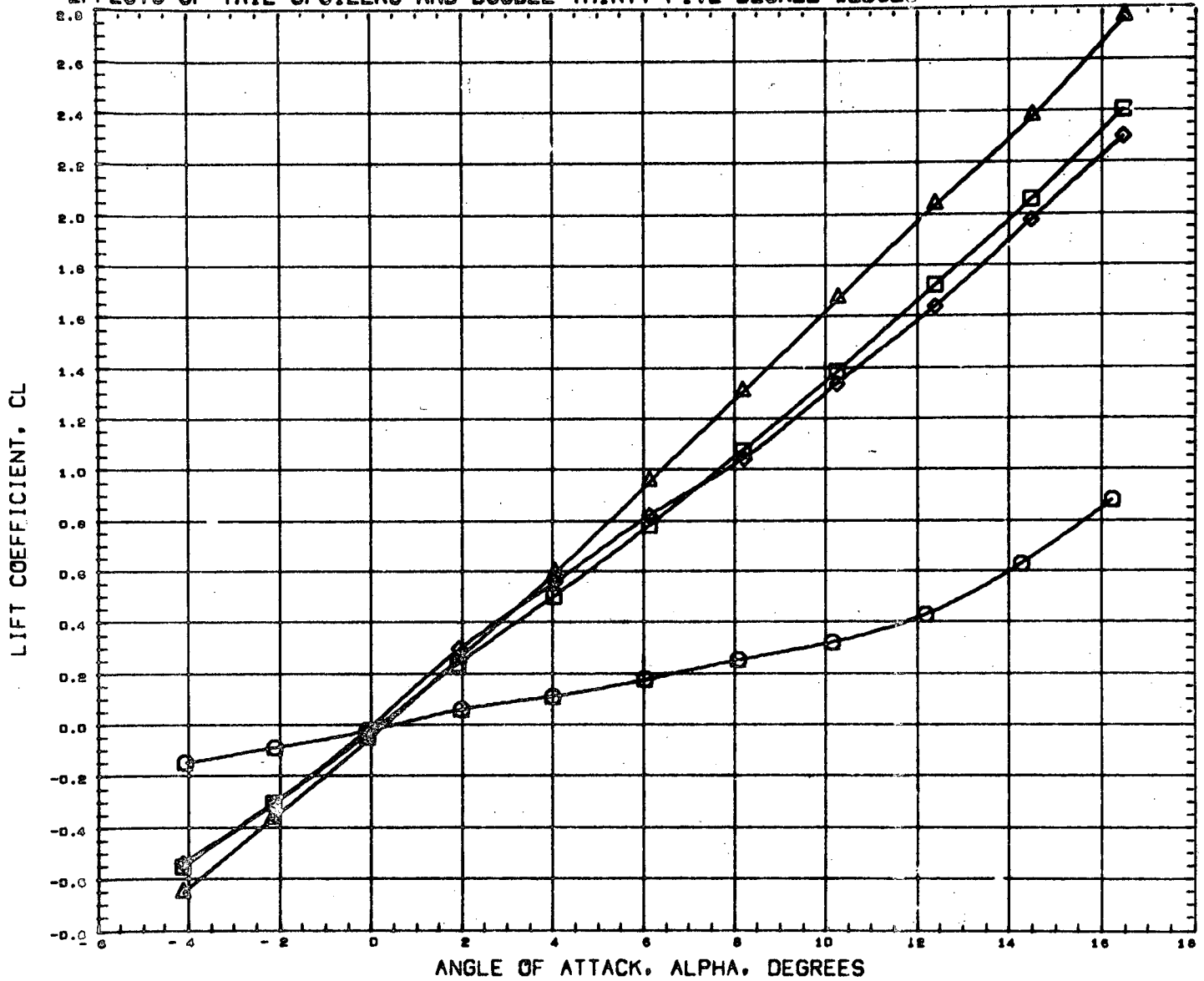
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(E50070)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(E50080)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.600

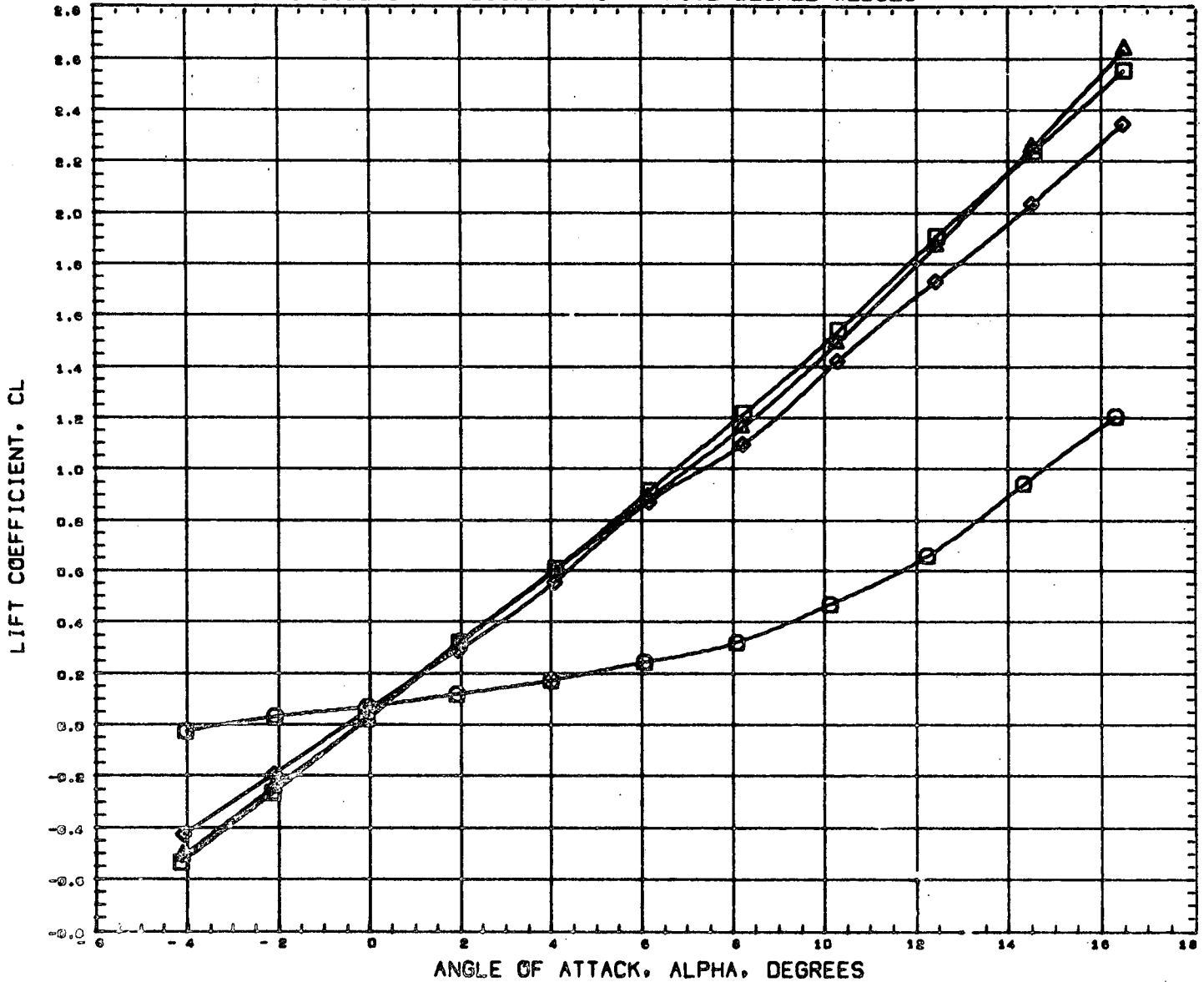
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2510 INCHES
(D5007D)	MSFC 512 GD/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.456

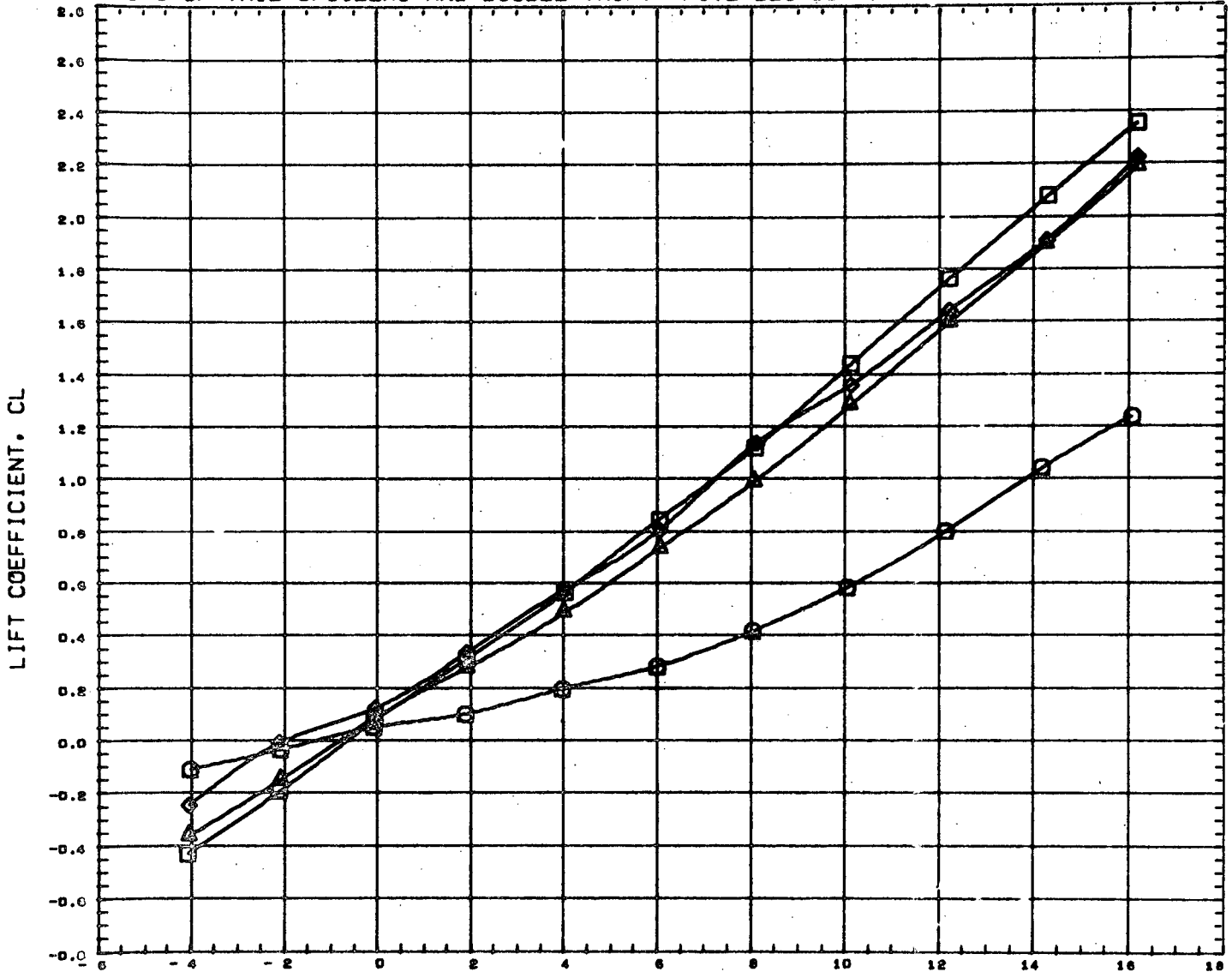
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA CTRY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001A)	MSFC 512 6D/C .003366 BOOSTER B34R6	0.000	45.000			SRPF 0.9350 88. IN.
(E9001A)	MSFC 512 6D/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90070)	MSFC 512 6D/C .003366 BOOSTER B34R6T19	0.000	0.000			BREF 1.0010 INCHES
(D90080)	MSFC 512 6D/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.000

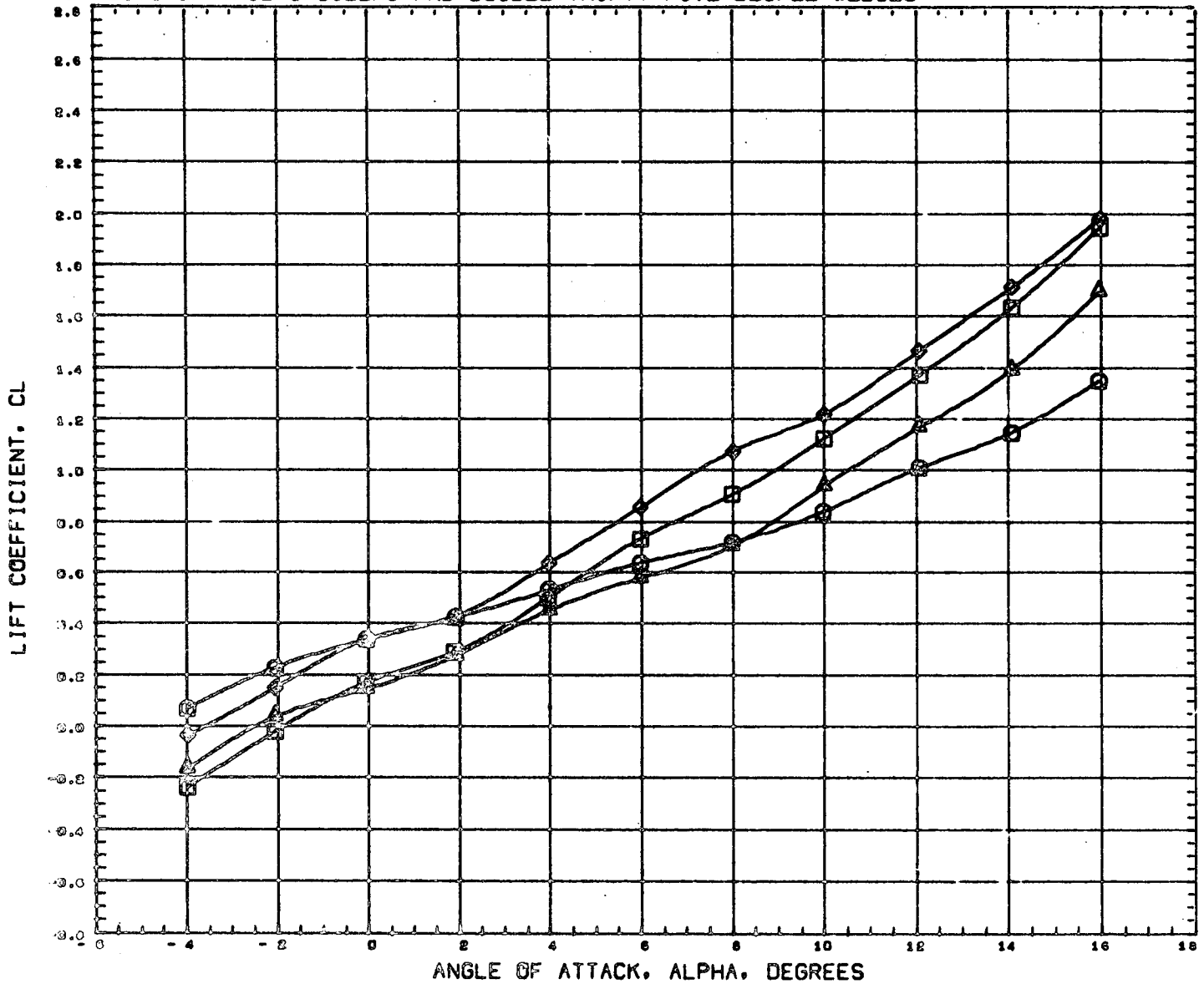
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	○	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 80. IN.
(E5002A)	△	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	◇	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	□	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0054

MACH 2.740

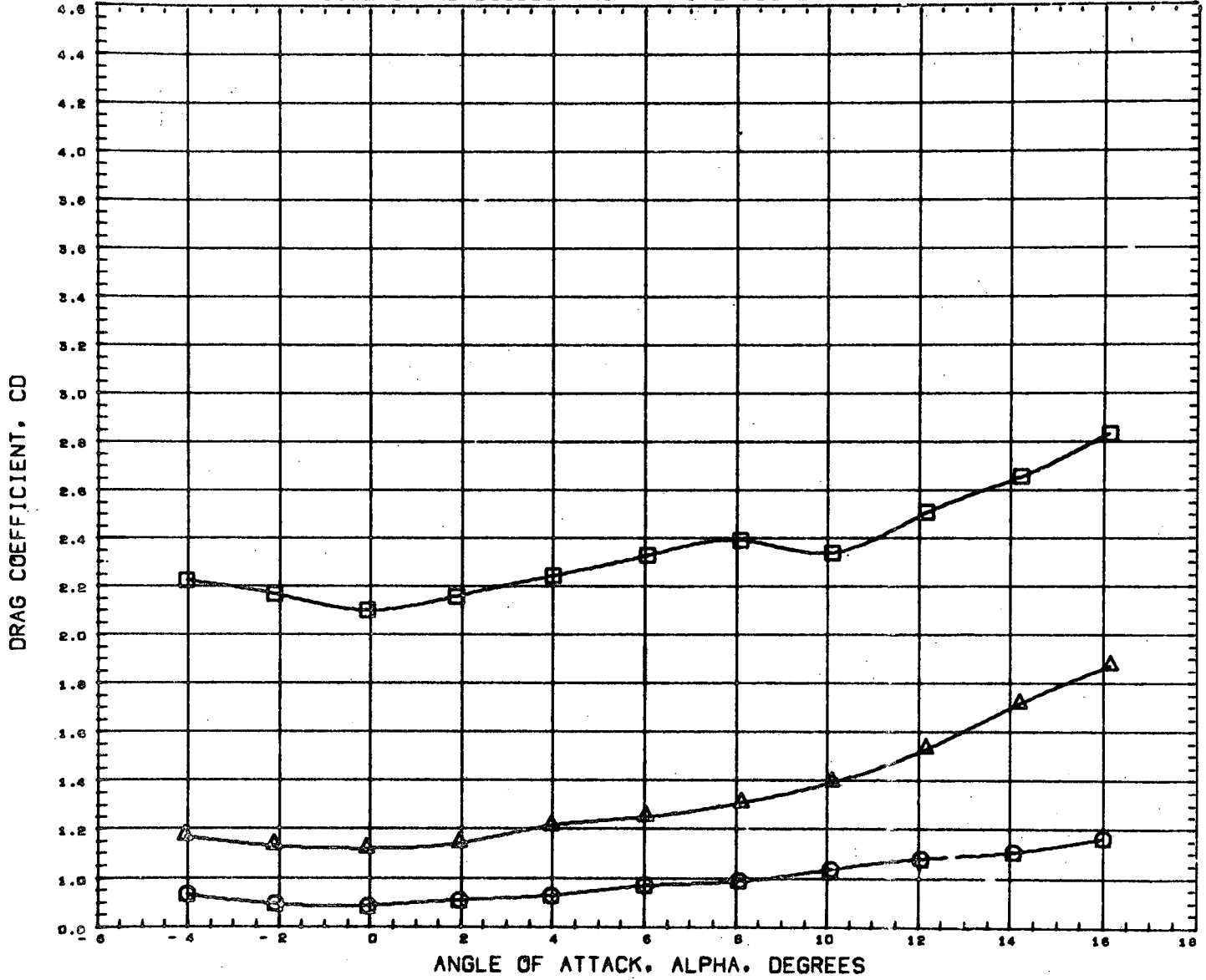
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(ES011A)	HSFC 512 GD/C .003566 DOOBYER	0.000	45.000			SREF 0.9550 SQ. IN.
(ES001A)	HSFC 512 GD/C .003566 DOOBYER	0.000	0.000	0.000	0.000	LREF 4.2310 INCHES
(DS0070)	HSFC 512 GD/C .003566 DOOBYER	0.000	0.000			BREF 1.0910 INCHES
(DS0060)	HSFC 512 GD/C .003566 DOOBYER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

NACA J. 999

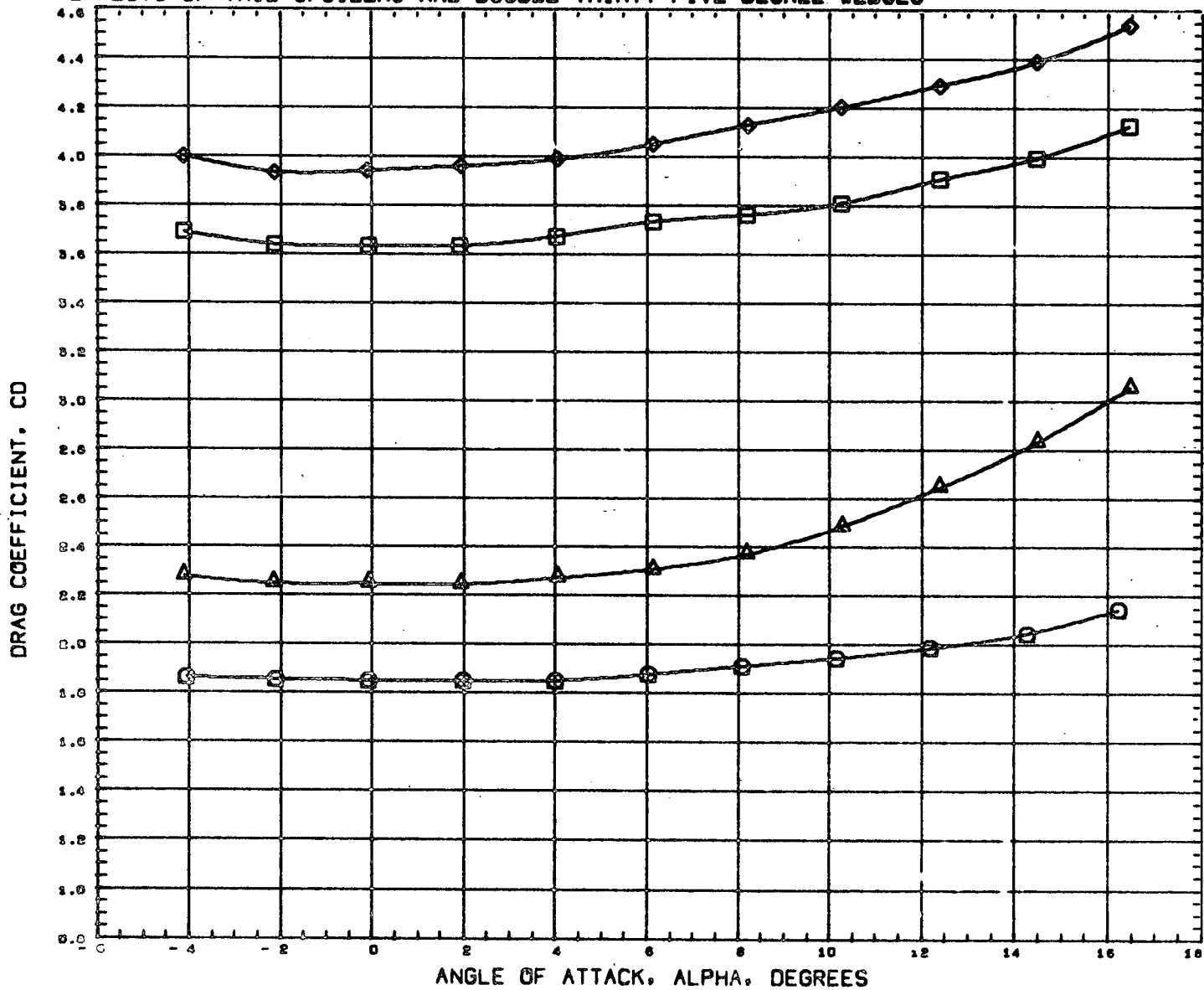
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RELAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			S ^{EFF} 0.9550 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 0.2510 INCHES
(D5007D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XHRP 3.7920 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

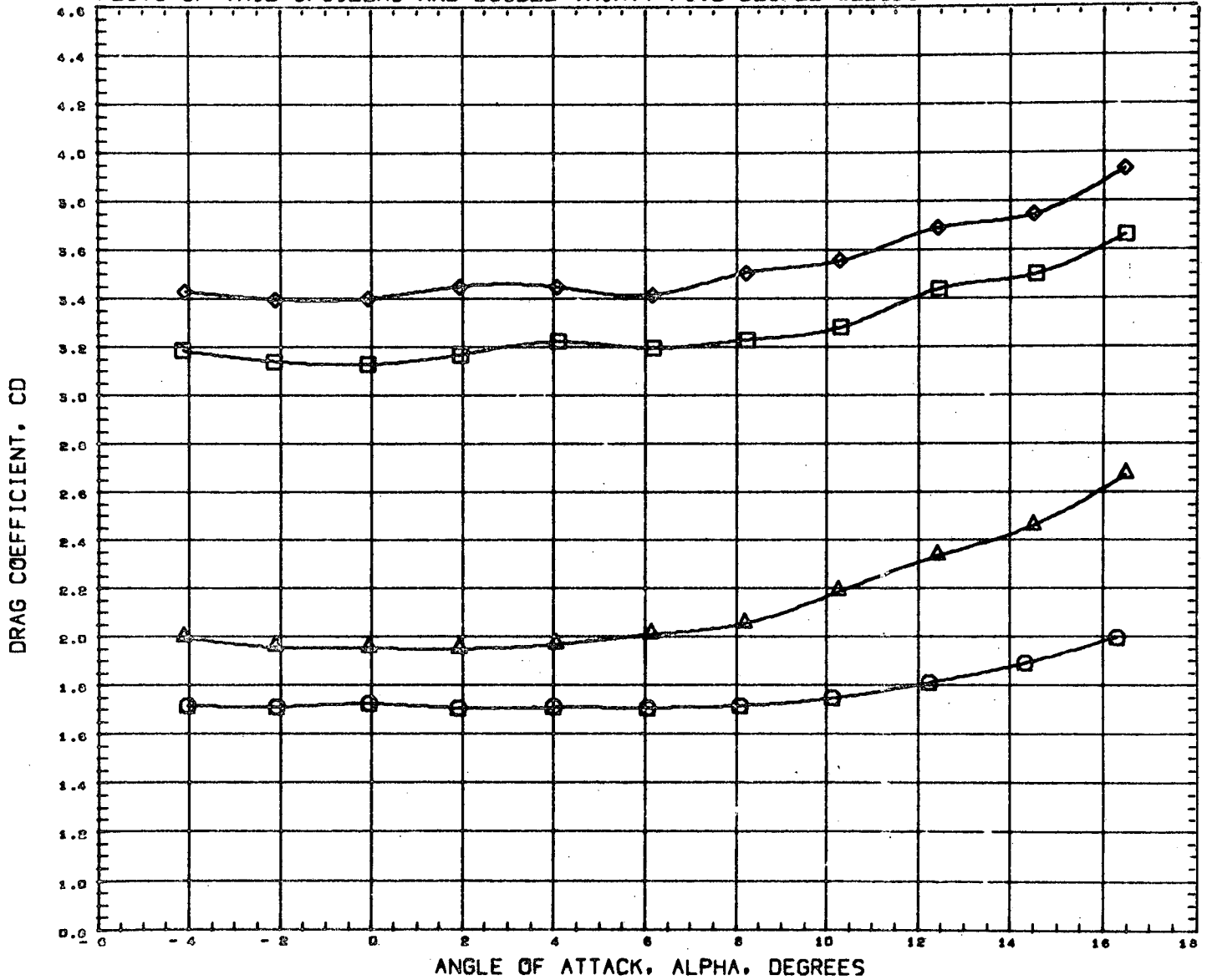
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRLF 0.9350 80. IN.
(E9001A)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9007D)	M8FC 512 GD/C .003366 BOOSTER B34R6T13	0.000	0.000			BREF 1.0810 INCHES
(D9009D)	M8FC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

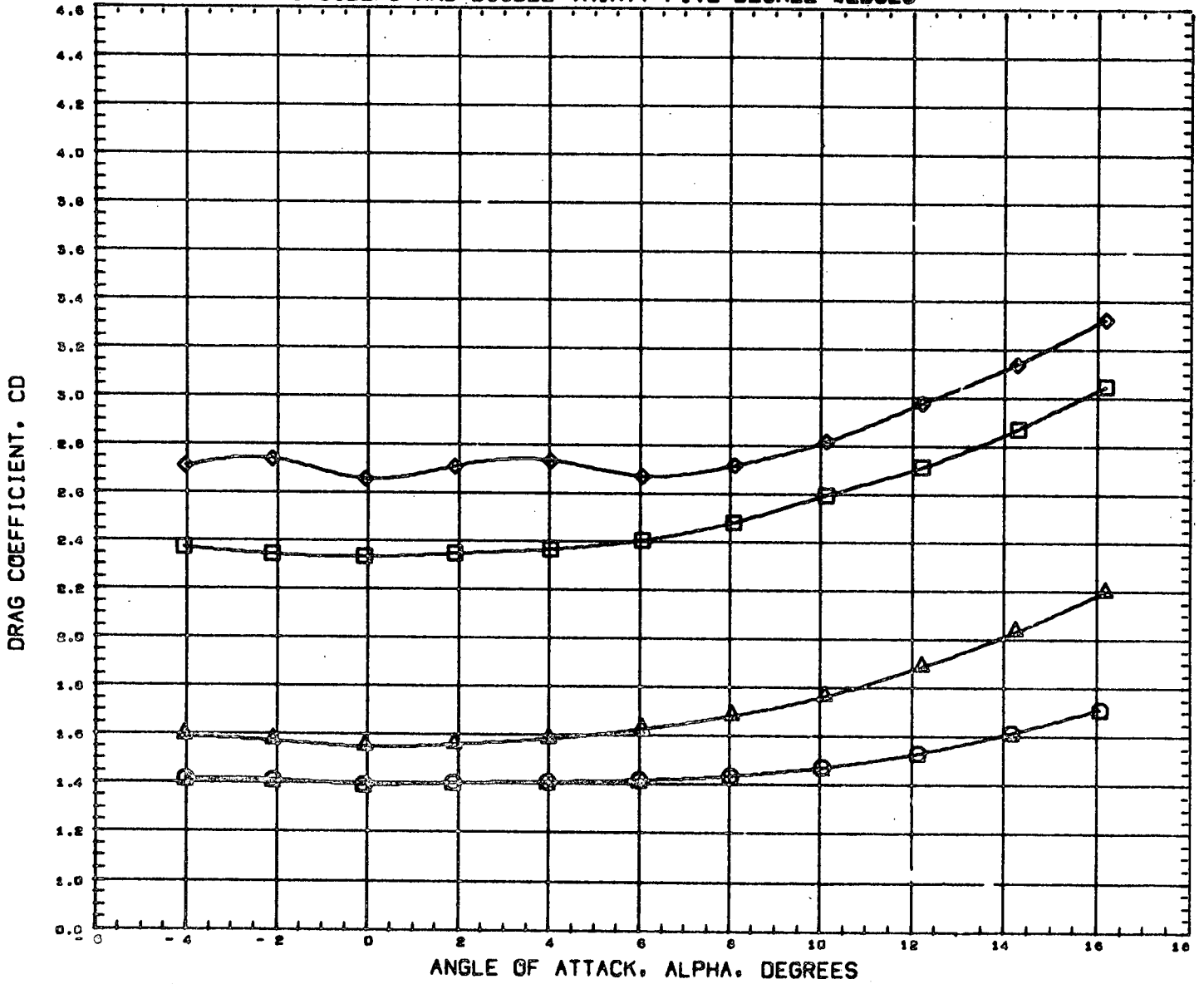
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			bREF 0.9350 80. IN.
(E5001A)	MSFC 512 GD/C .003306 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	MSFC 512 GD/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	3.0000	XMR ² 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

HACH 1.968

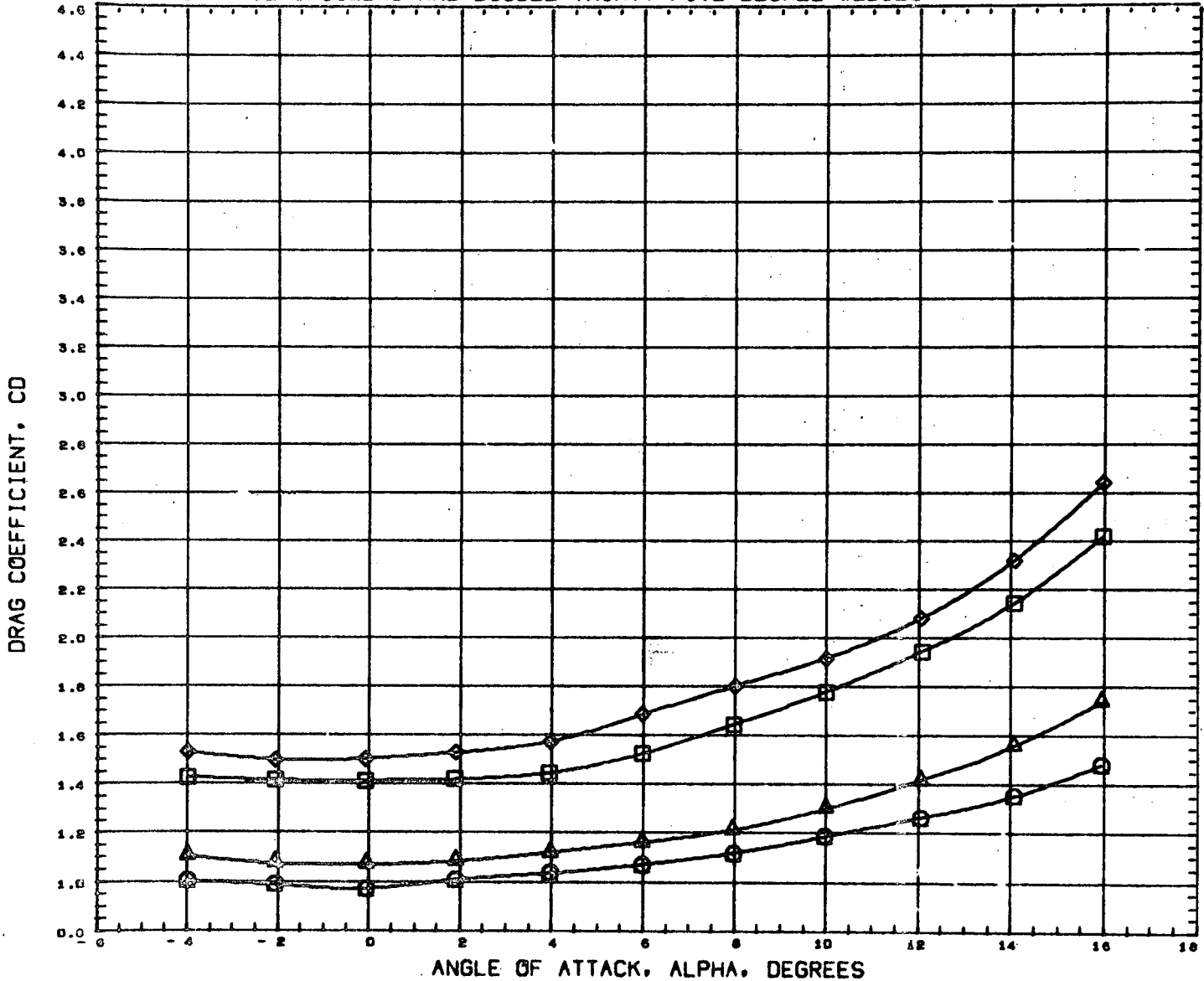
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5011A)	NSFC 512 GD/C .003300 BOOSTER	0.000	45.000			SRPF	0.9350 SQ. IN.
(E5003A)	NSFC 512 GD/C .003300 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2510 INCHES
(D50070)	NSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF	1.0910 INCHES
(D50090)	NSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

HACH 2.740

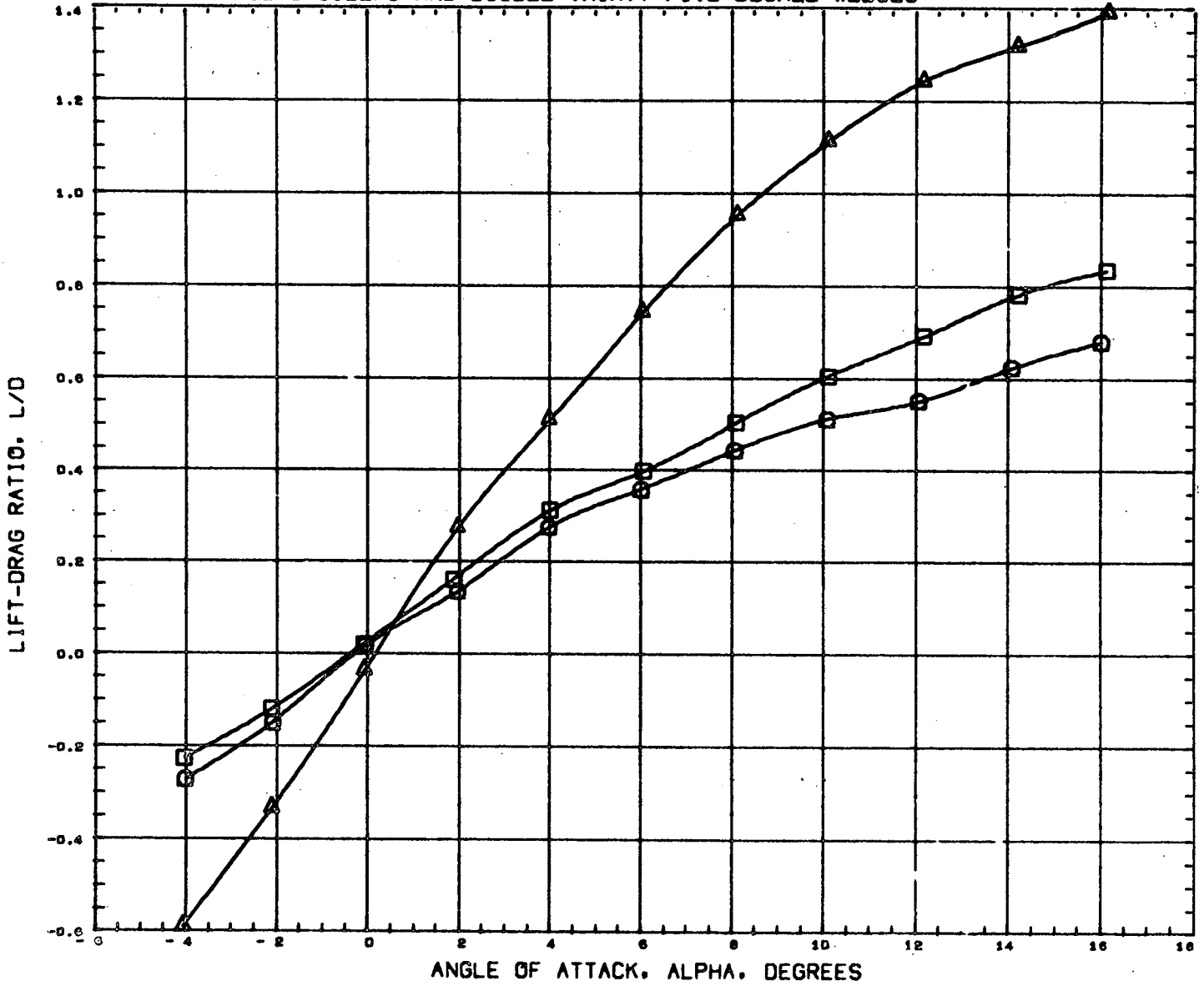
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	○	NSFC 512 GD/C .003566 BOOSTER	0.000	45.000			SRLT 0.9350 89. IN.
(E5001A)	△	NSFC 512 GD/C .003566 BOOSTER	0.000	0.000	0.000	0.000	LREF 0.2310 INCHES
(D50070)	◇	NSFC 512 GD/C .003566 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50090)	□	NSFC 512 GD/C .003566 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 4.050

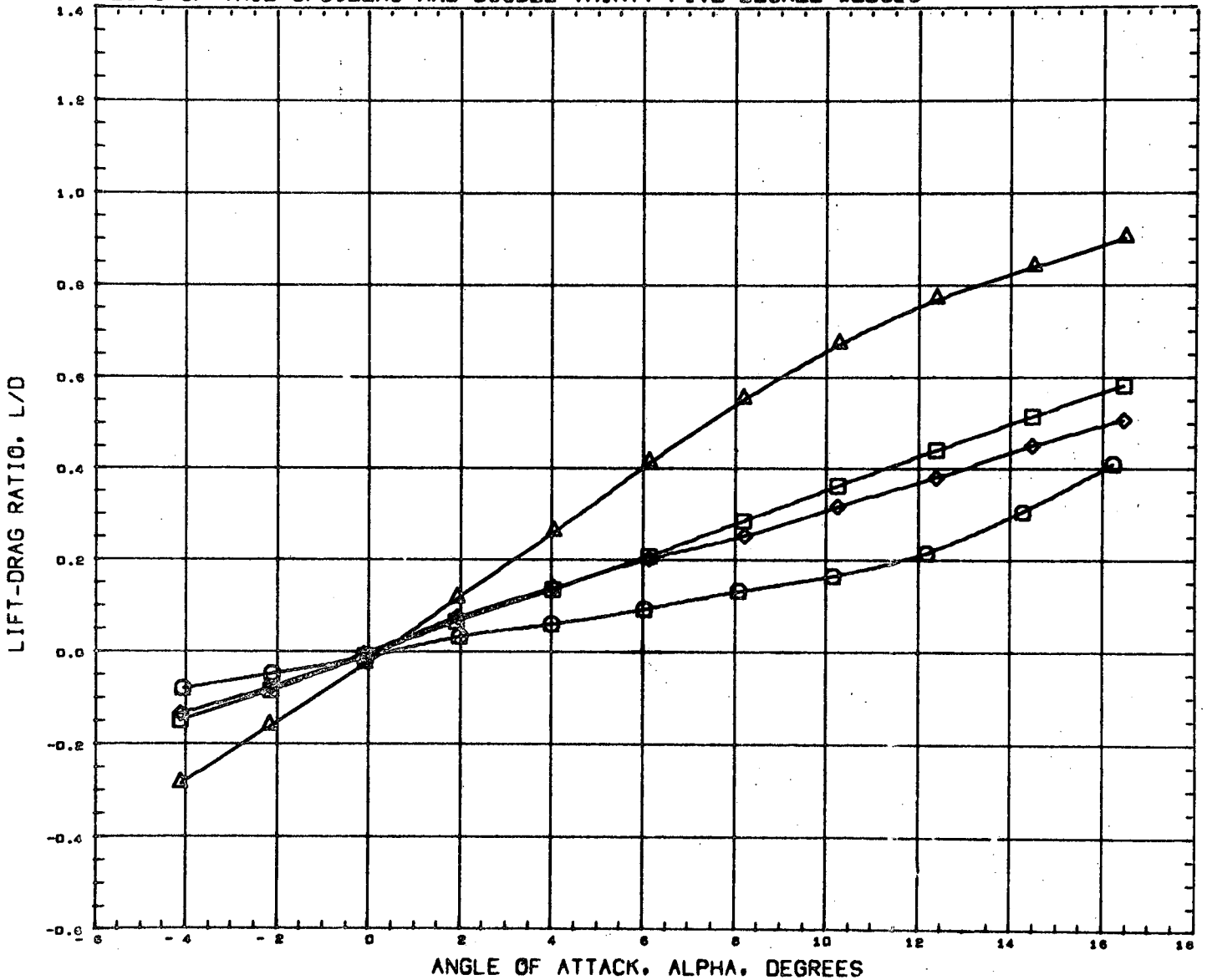
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHI _{MOD}	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5011A)	MSFC 512 GD/C .003306 BOOSTER B34R6	0.000	45.000			SR _{REF}	0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D5007D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF	1.0910 INCHES
(D5029D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMR _F	3.7920 INCHES
						YMR _F	0.0000 INCHES
						ZMR _F	0.0000 INCHES
						SCALE	0.0034

MACH 0.603

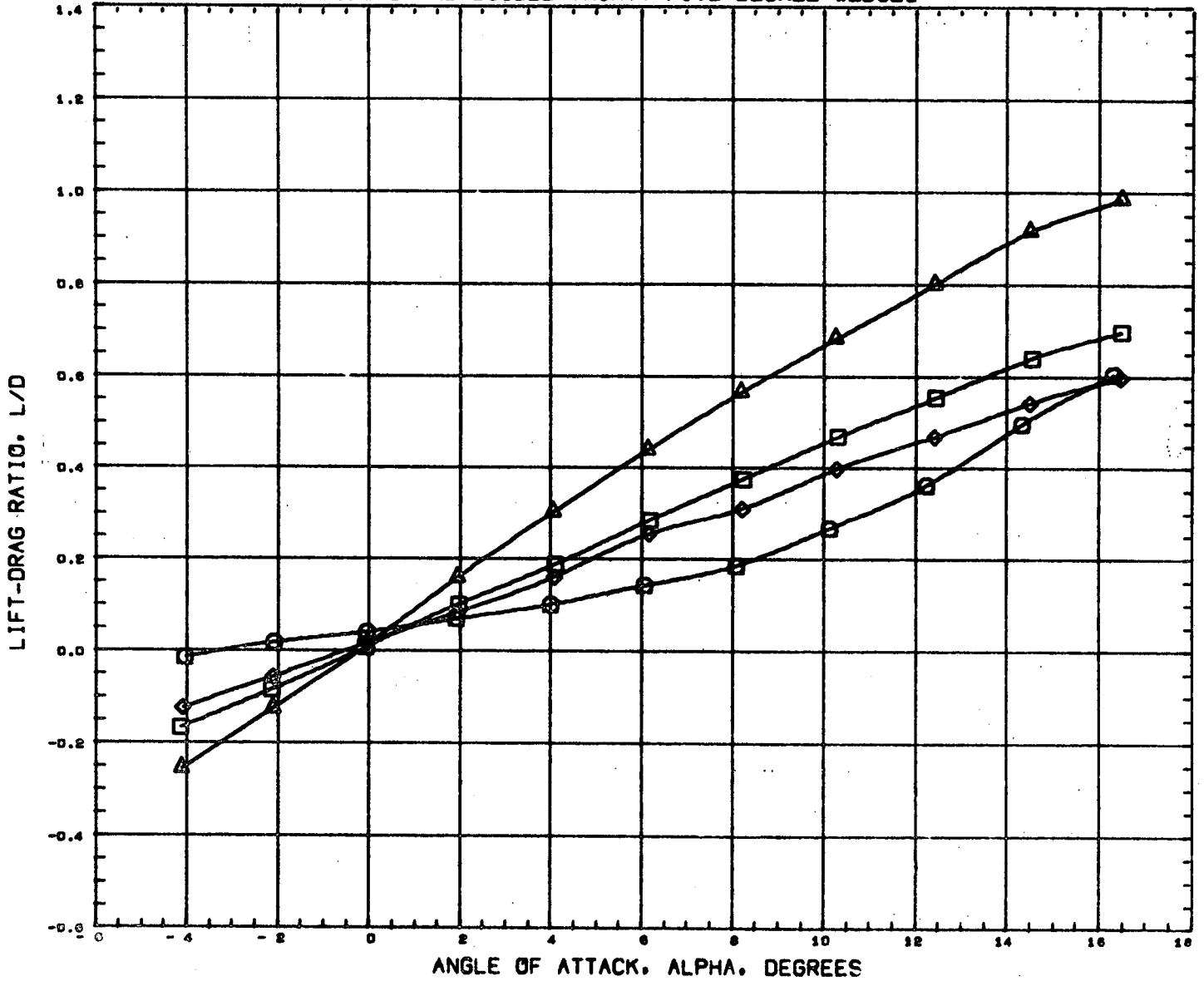
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	△	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E5001A)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90070)	◇	MSFC 512 GD/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D50000)	○	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.450

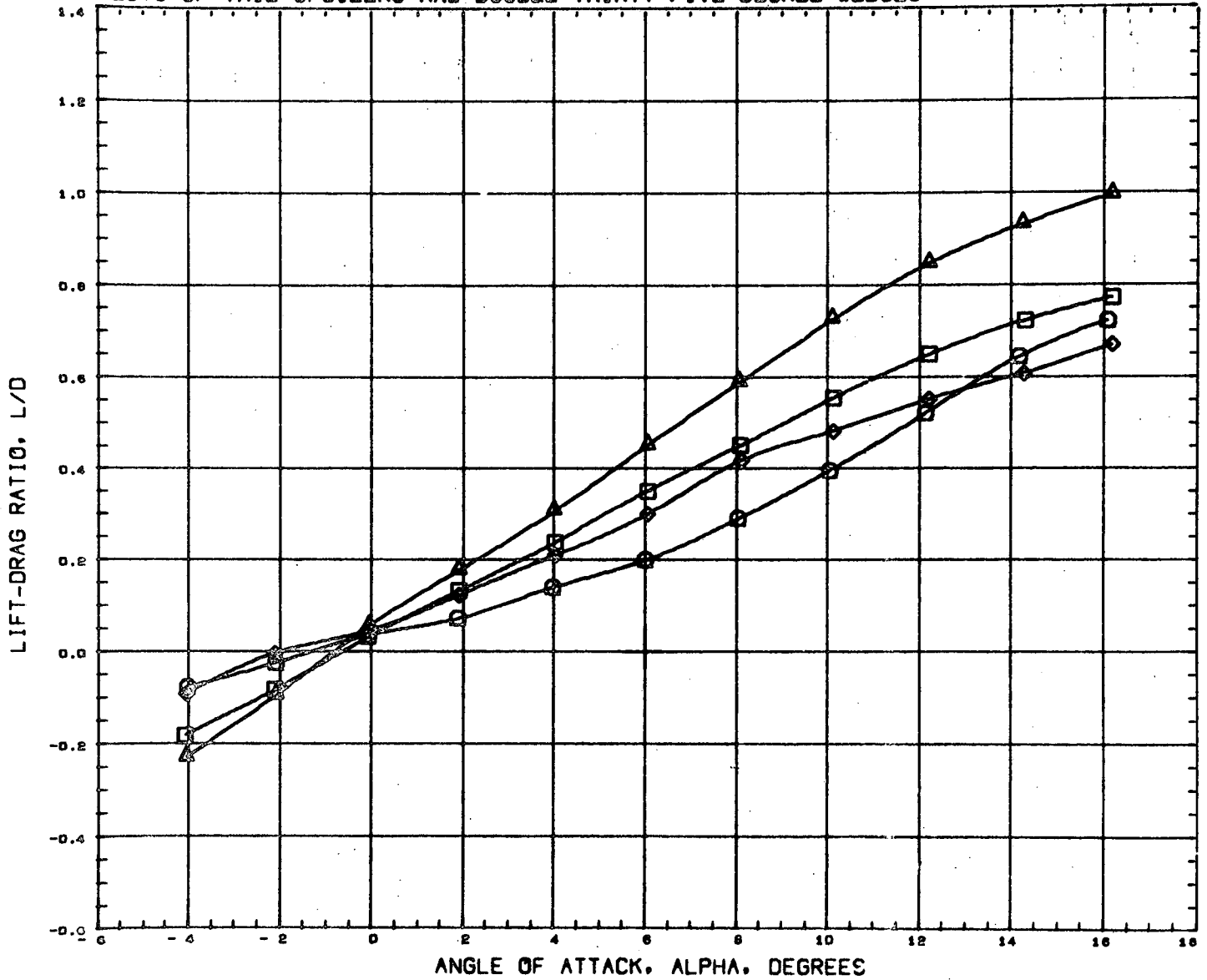
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003368 BOOSTER	0.000	45.000			SREF 0.9350 89. IN.
(E5001A)	MSFC 512 GD/C .003368 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50070)	MSFC 512 GD/C .003368 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003368 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.860

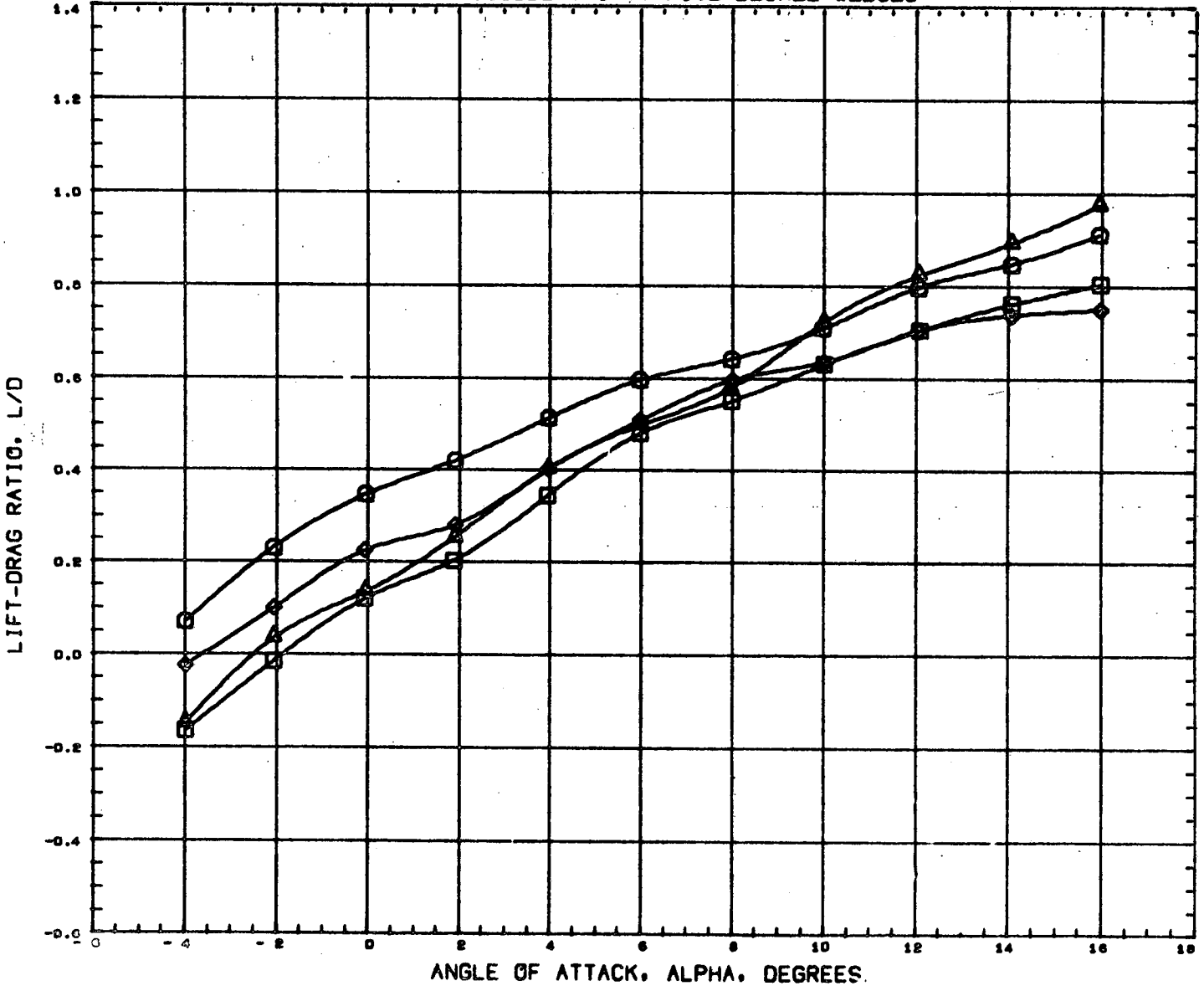
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RELAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50070)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

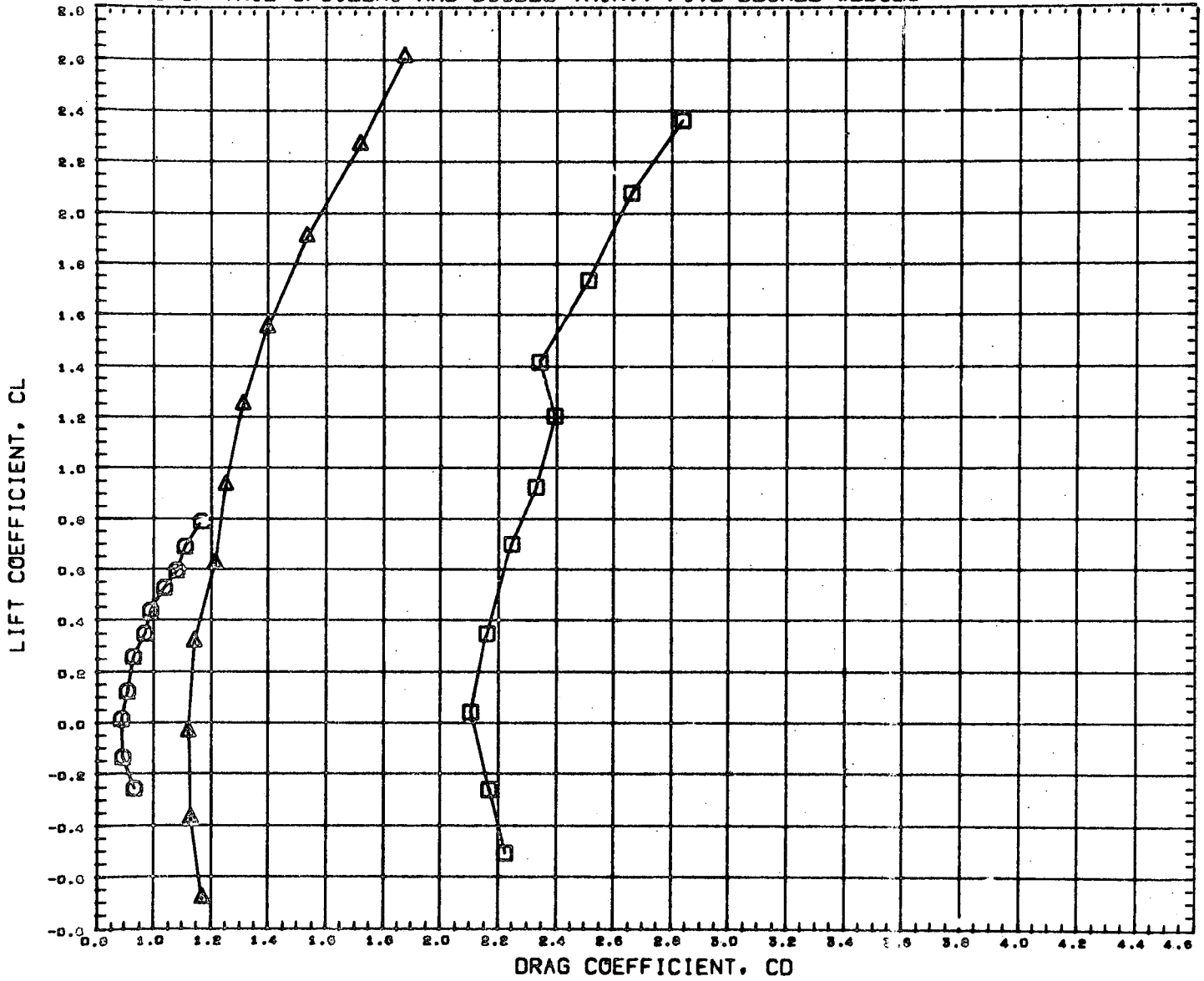
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(ES011A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SIZE 0.9350 SQ. IN.
(ES001A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(DS007D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(DS009D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	AMRP 3.7920 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 4.850

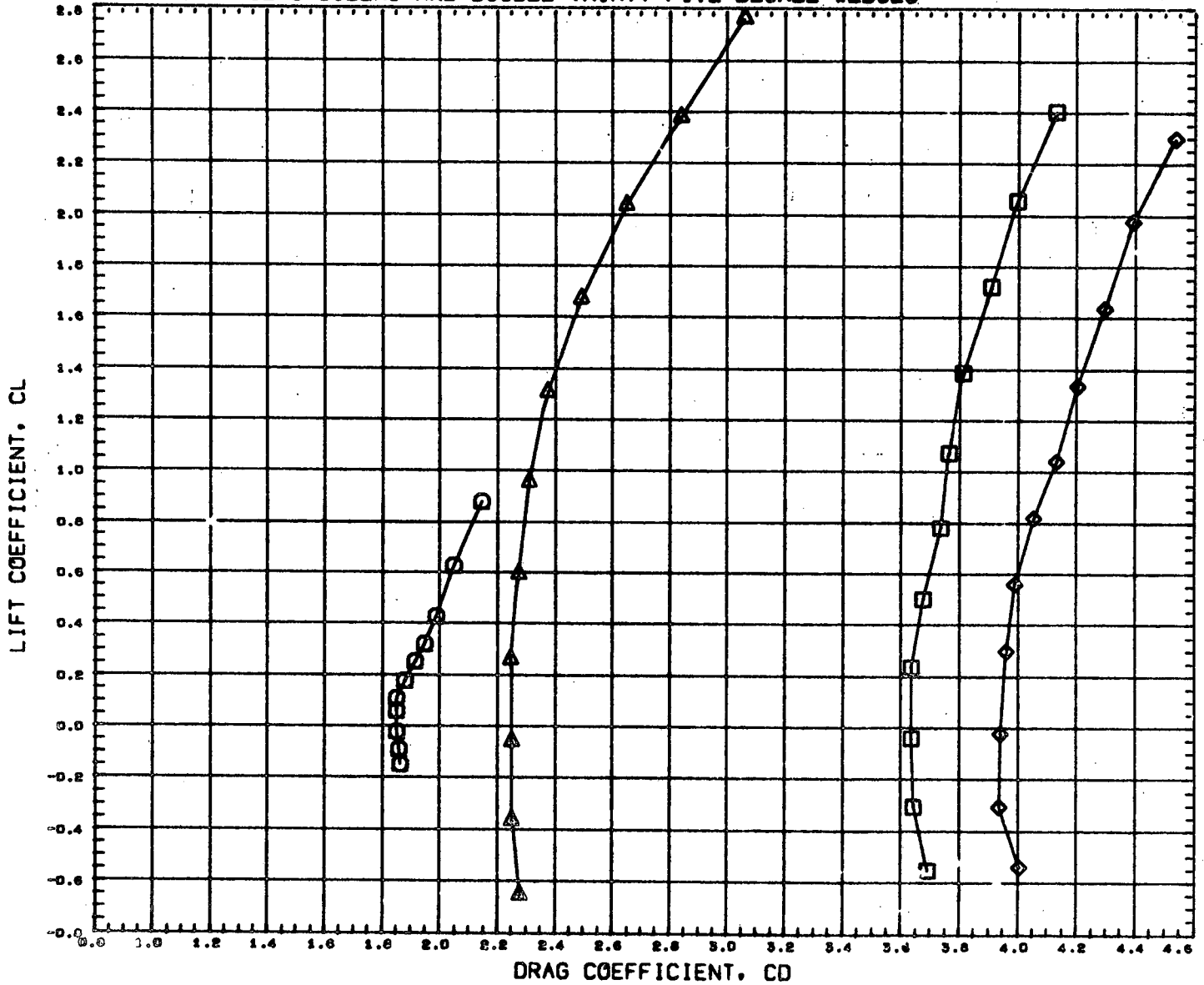
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RF LAP	REFERENCE INFORMATION
(E5011A)	M8FC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000			SFIF 0.9350 SQ. IN.
(E5001A)	M8FC 512 GD/C .003368 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50070)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D50090)	M8FC 512 GD/C .003368 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRF 3.7920 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

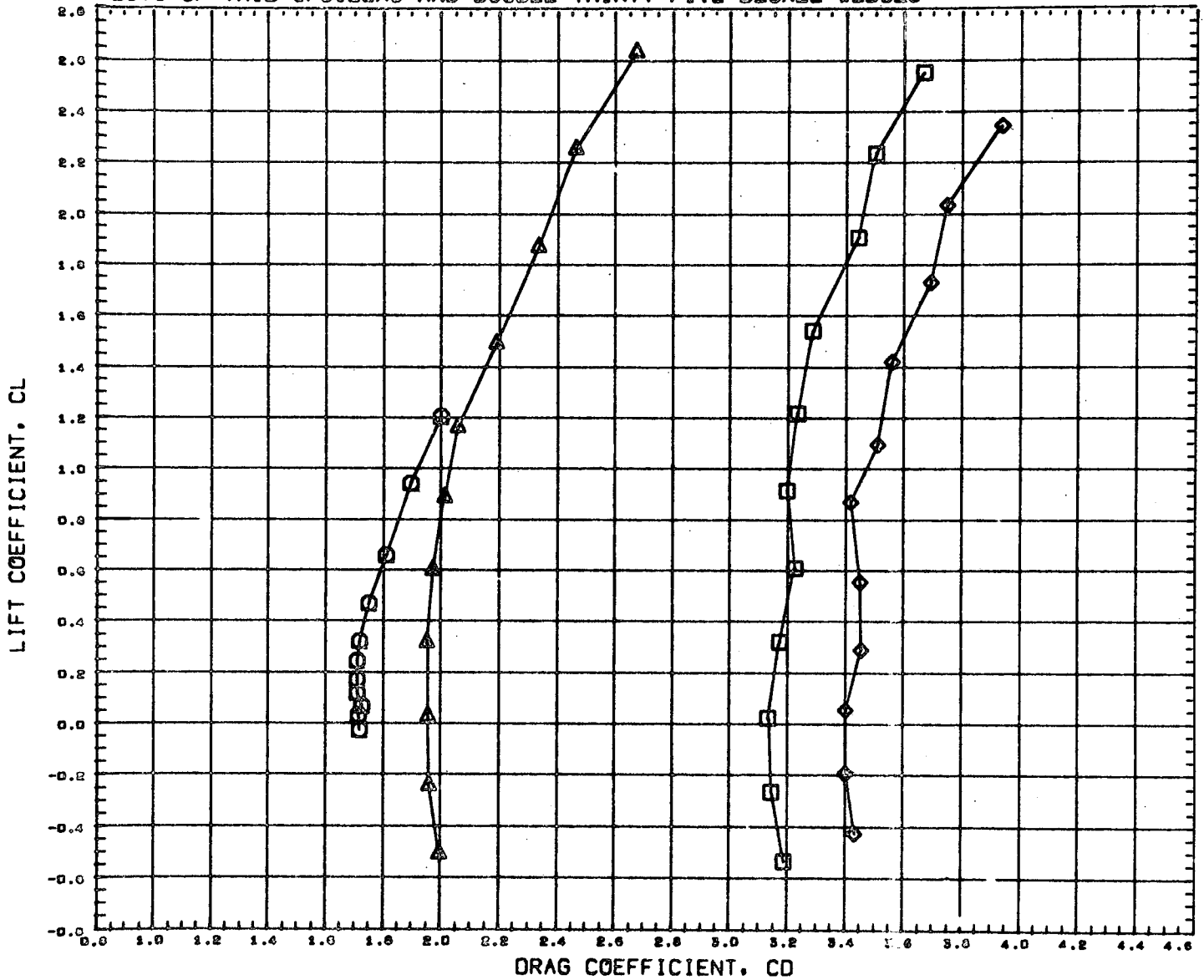
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SRLF 0.9350 80. IN.
(E5001A)	MSFC 512 GD/C .003360 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50070)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	55.000	55.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

HACH 1.456

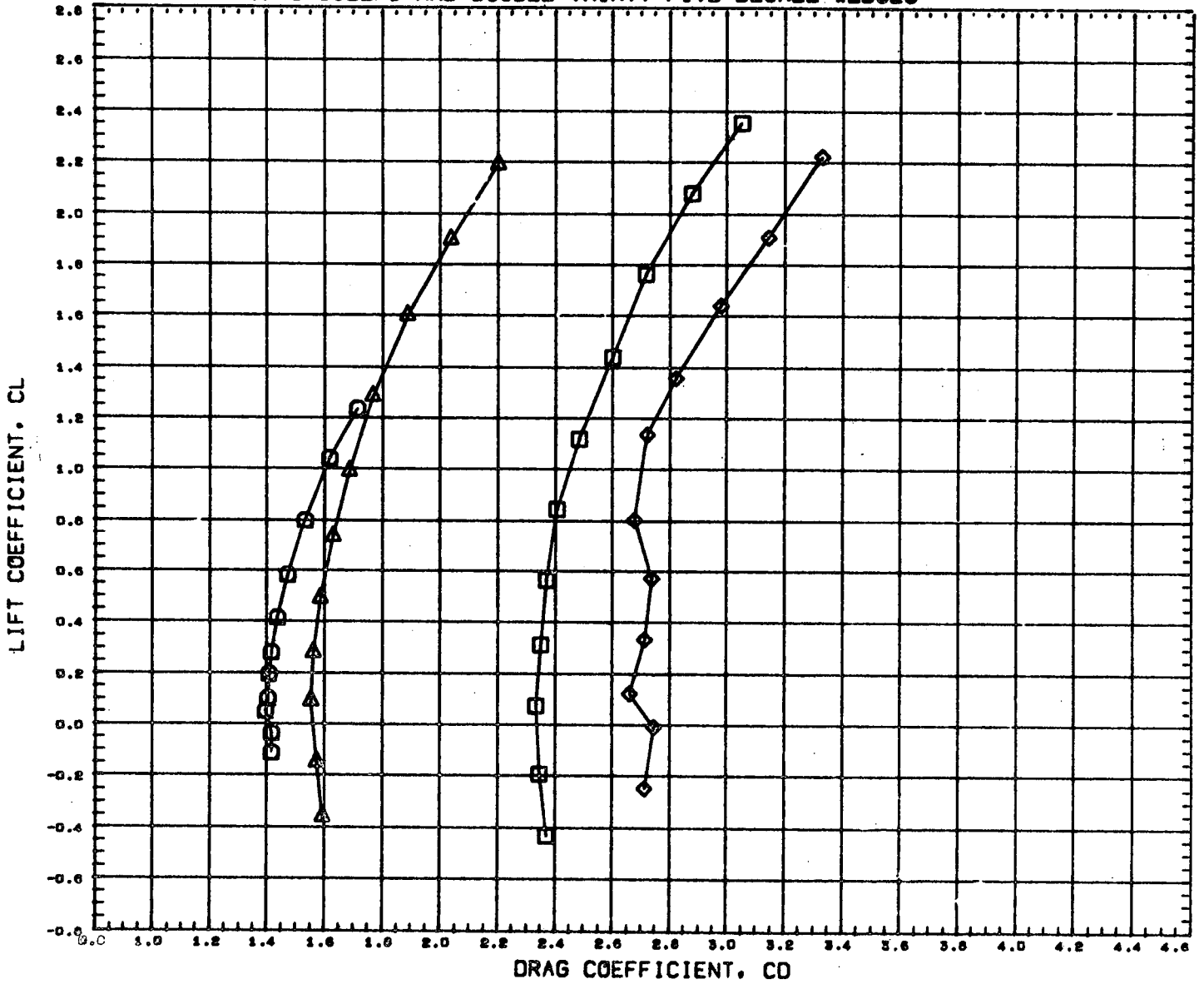
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	REFLAP	REFERENCE INFORMATION
(E5011A)	M8FC 512 GD/C .003366 BOOSTER	0.000	45.000			SNZF 0.9350 SQ. IN.
(E5001A)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D5000D)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMNP 3.7920 INCHES
						YMNP 0.0000 INCHES
						ZMNP 0.0000 INCHES
						SCALE 0.0094

MACH 1.961

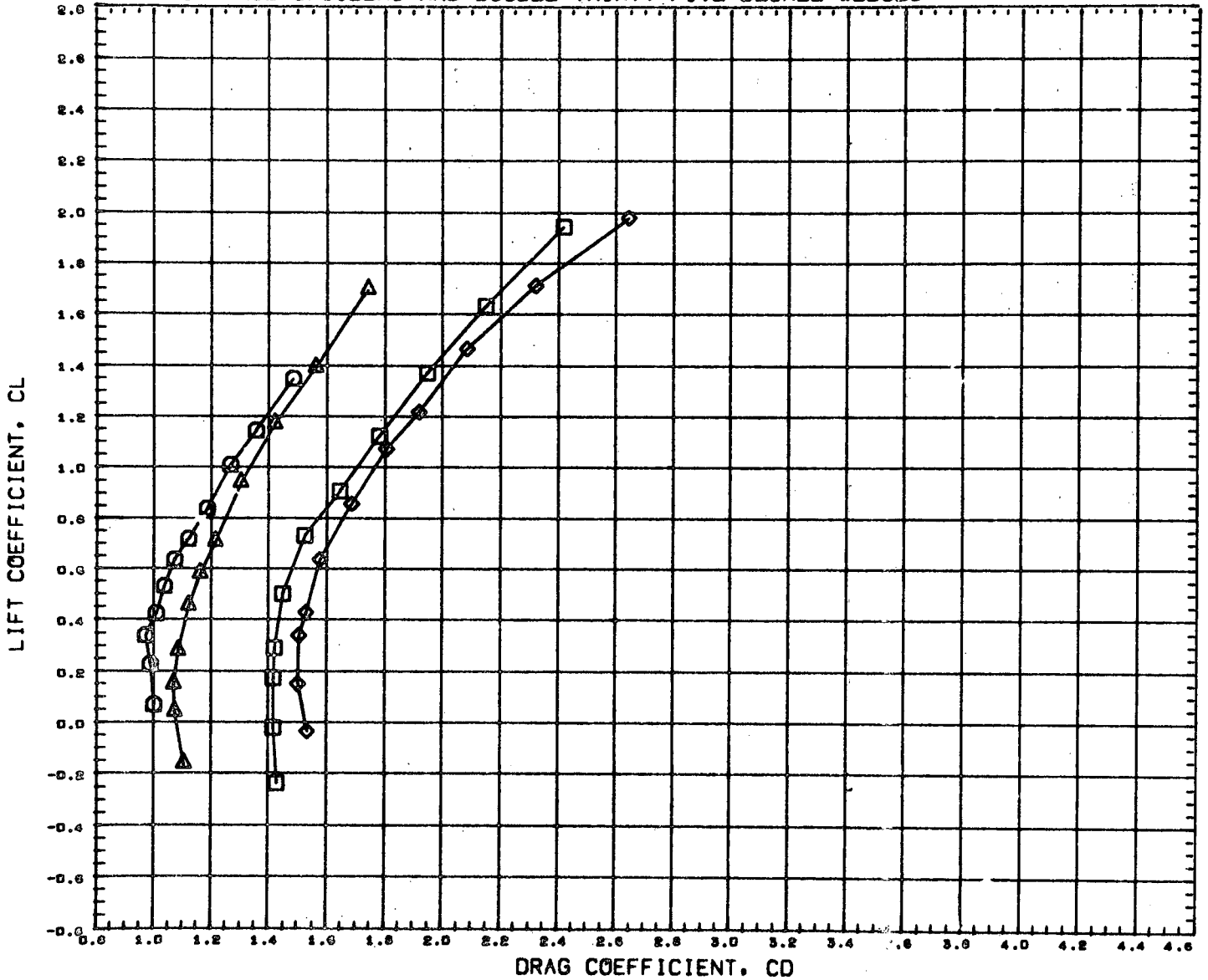
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MBFC 512 GD/C .003366 BOOSTER	0.000	45.000			ZREF 0.9350 80. IN.
(E5001A)	MBFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50070)	MBFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0010 INCHES
(D50090)	MBFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

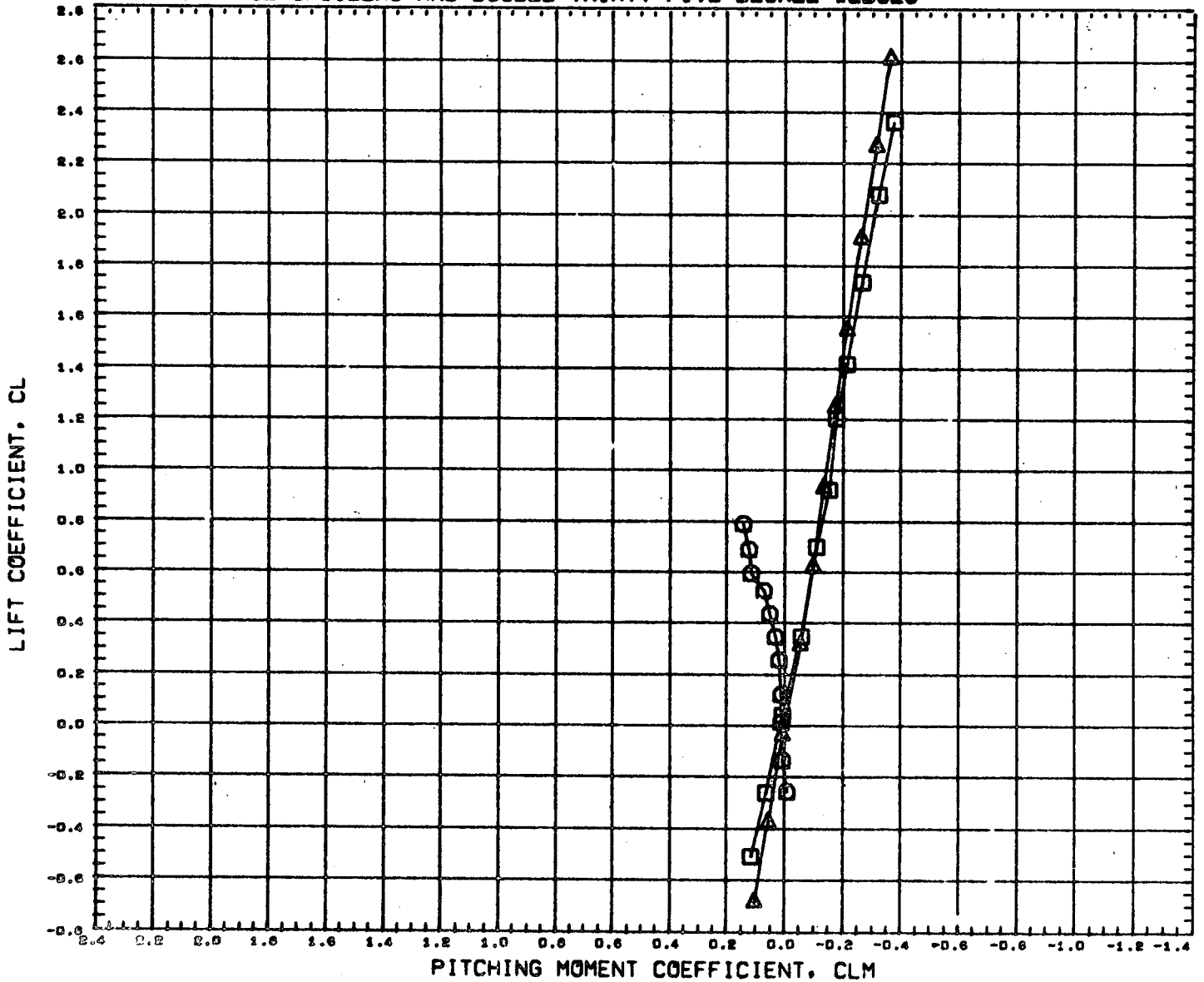
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	B34R6	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	HSFC 512 GD/C .003566 BOOSTER	B34R6	0.000	45.000			SCF 0.9350 80.IN.
(E5001A)	HSFC 512 GD/C .003566 BOOSTER	B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	HSFC 512 GD/C .003566 BOOSTER	B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	HSFC 512 GD/C .003566 BOOSTER	B34R6T17	0.000	0.000	35.000	35.000	AMRP 3.7920 INCHES
							YMNP 0.0000 INCHES
							ZMNP 0.0000 INCHES
							SCALE 0.0034

MACH 4.953

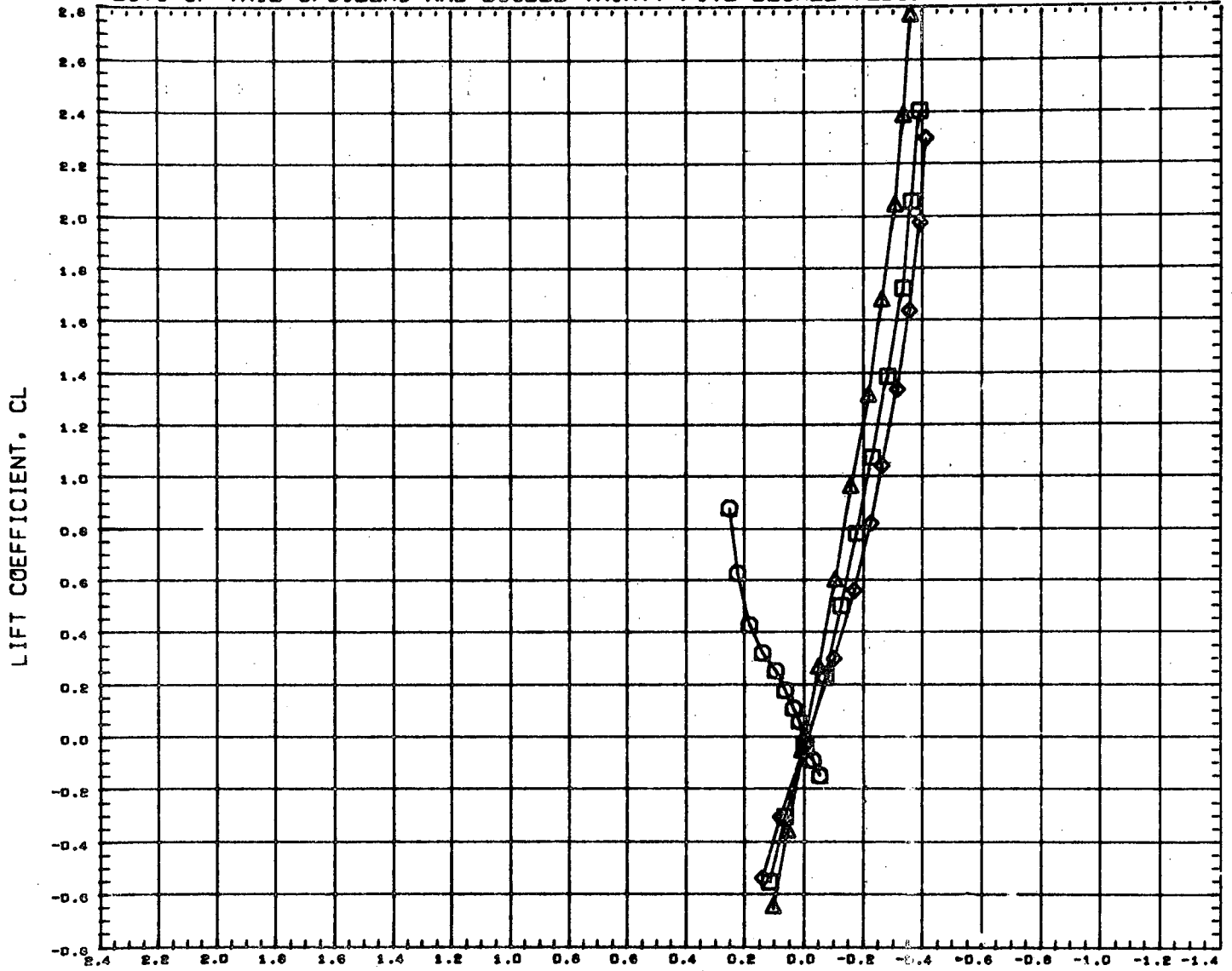
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5011A)	NSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SKRF	0.9350 80. IN.
(E5001A)	NSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(O5007D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF	1.0910 INCHES
(O5009D)	NSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.603

EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES

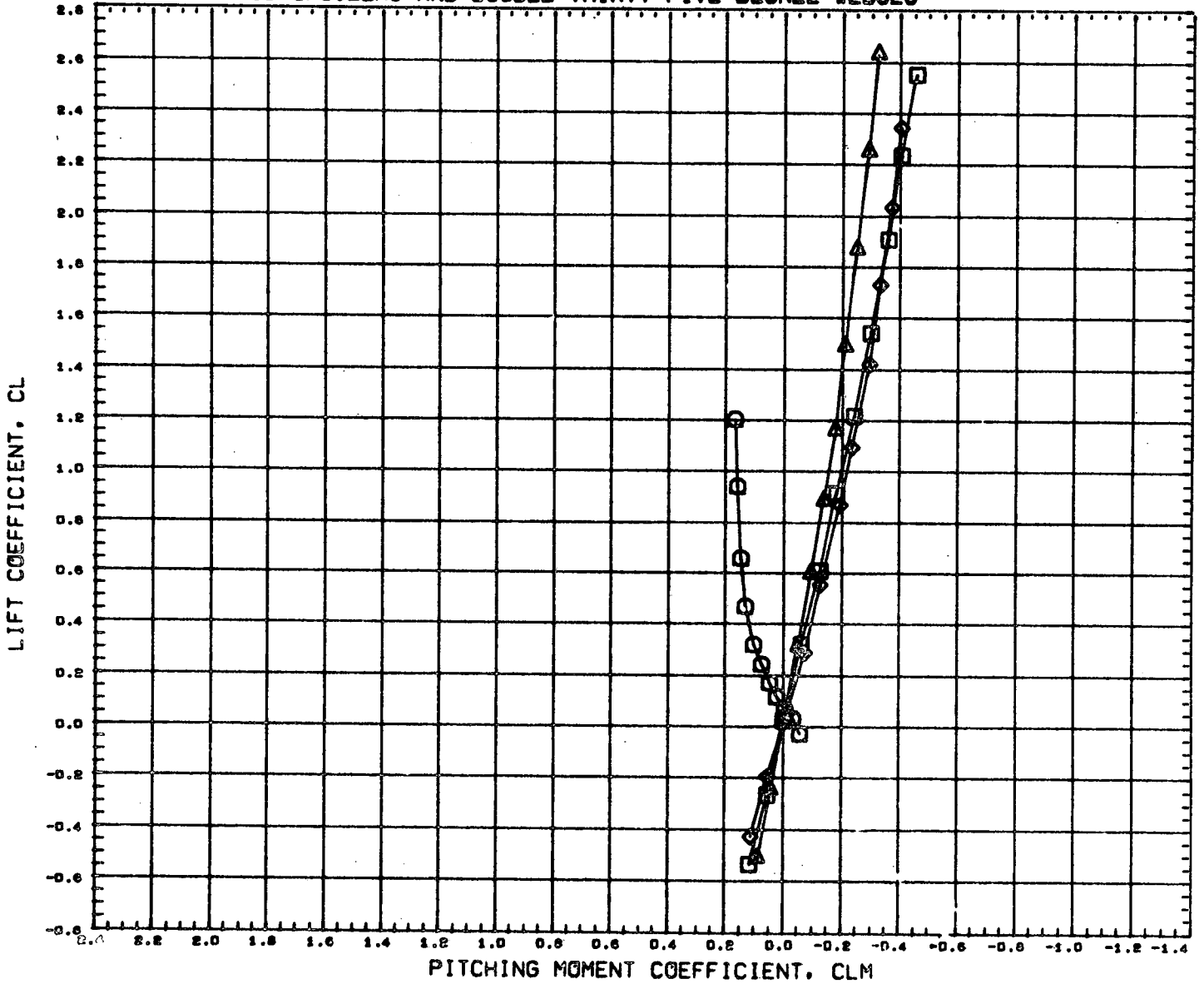


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .00366 BOOSTER	B34R6	0.000	45.000			REF 0.9350 80. IN.
(E9001A)	MSFC 512 GD/C .00366 BOOSTER	B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50070)	MSFC 512 GD/C .00366 BOOSTER	B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .00366 BOOSTER	B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 1.450

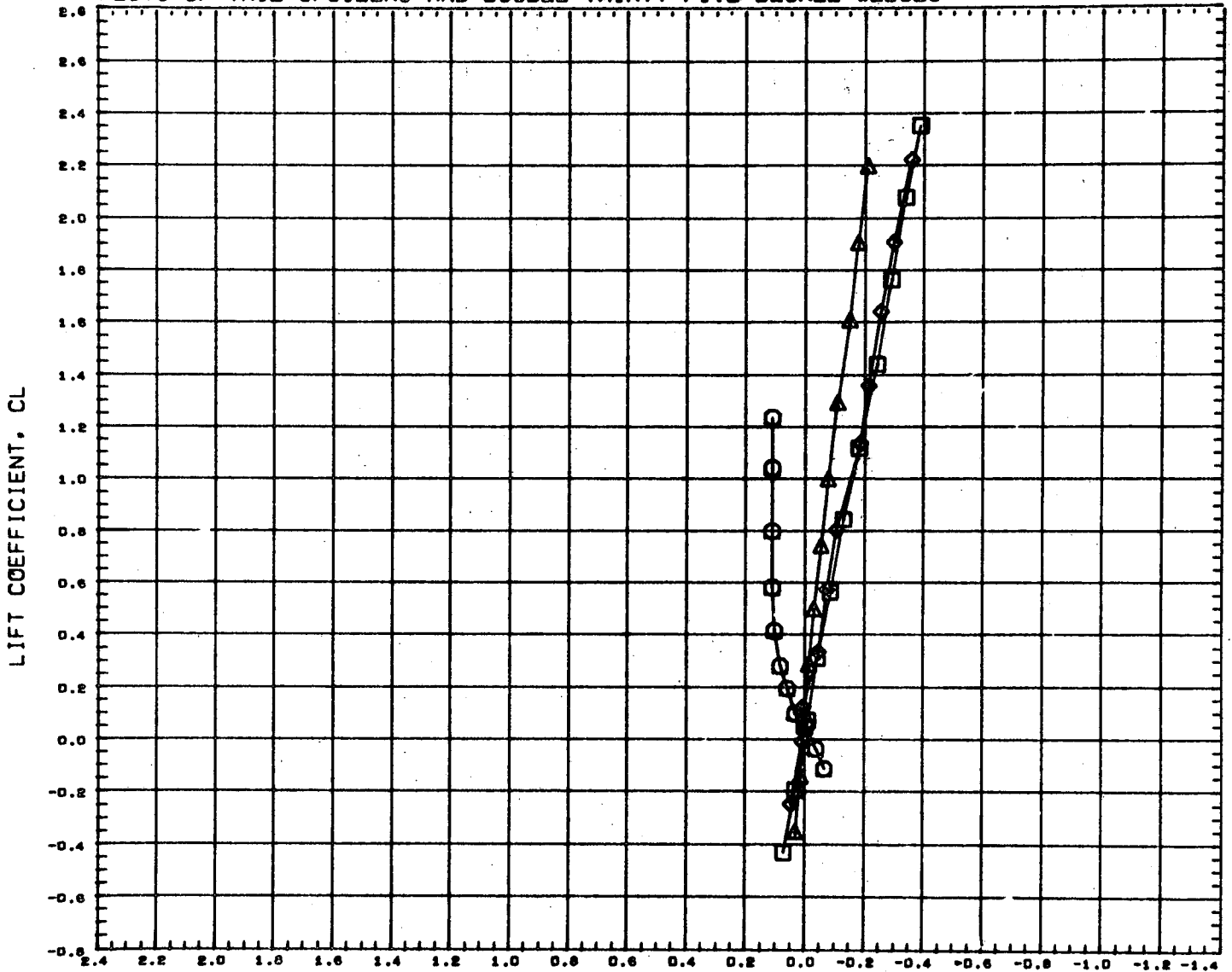
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			*REF 0.9350 89.1N.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	MSFC 512 GD/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.066

EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES

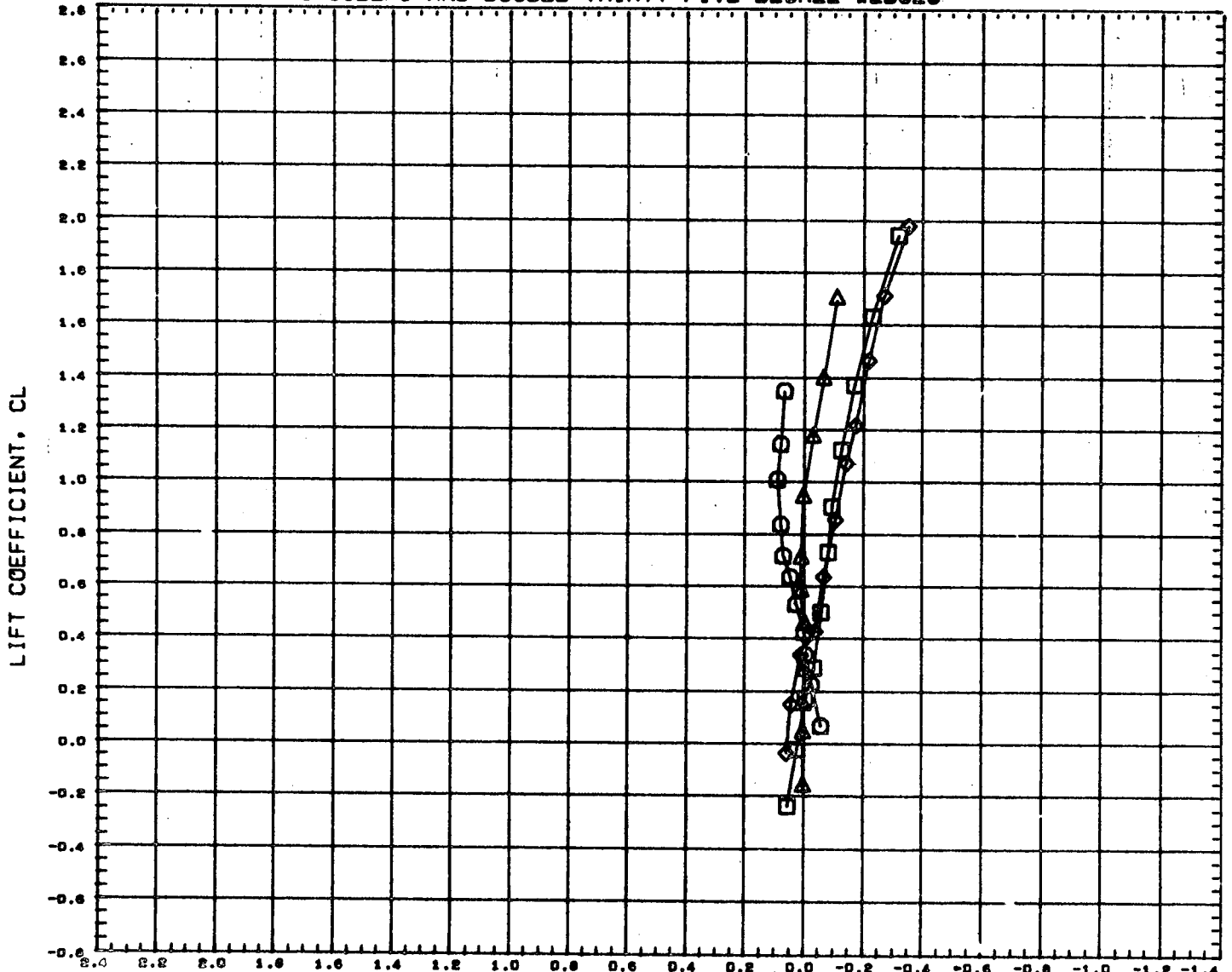


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	NSFC 512 GD/C .003366 BOOSTER	0.000	45.000			REF 0.9350 SQ. IN.
(E5001A)	NSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	NSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	NSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES

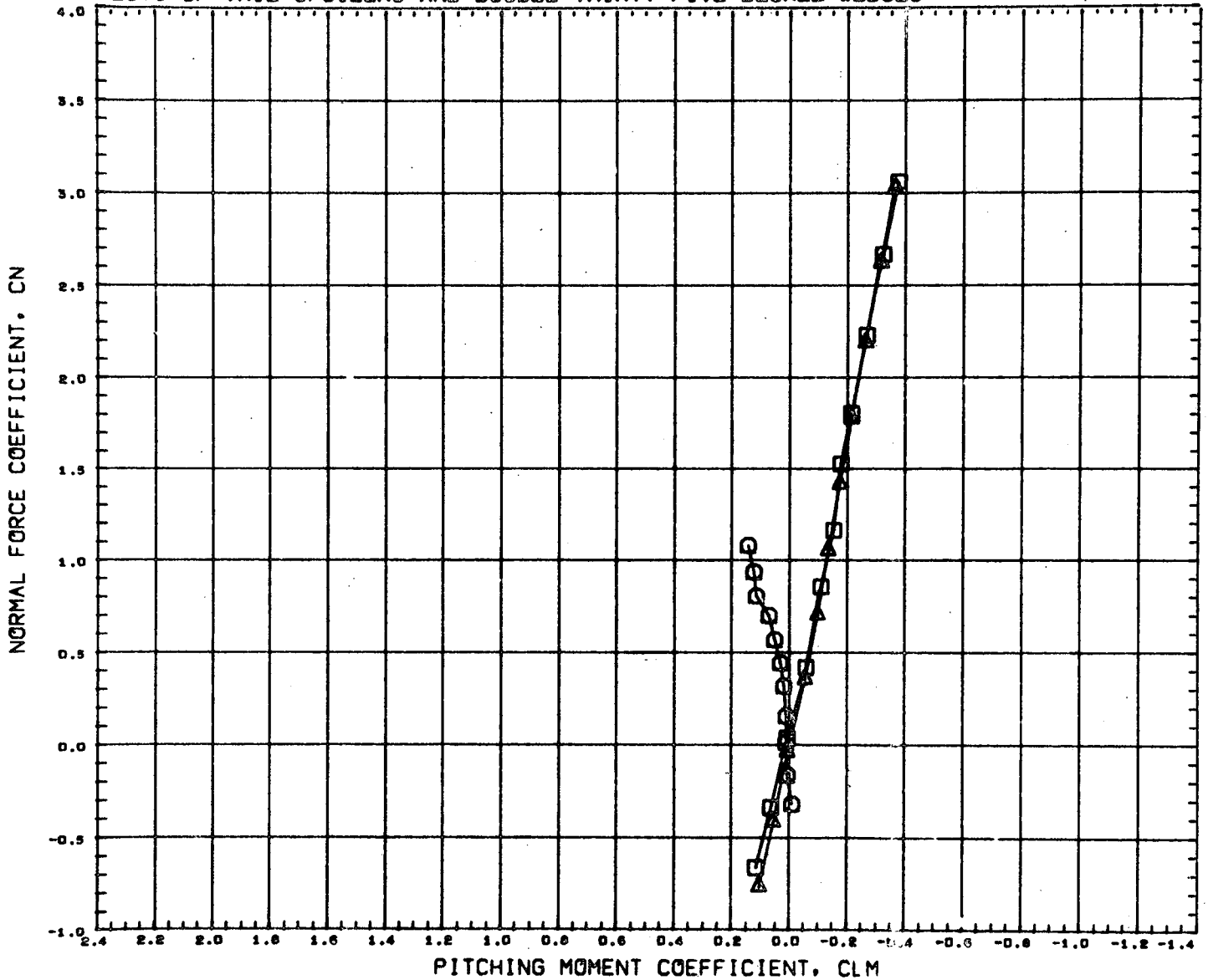


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHI000	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003500 BOOSTER	0.000	45.000			8.2F 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003500 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50070)	MSFC 512 GD/C .003500 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003500 BOOSTER	0.000	0.000	35.000	35.000	AMRP 3.7920 INCHES
						YMWP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.950

EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES

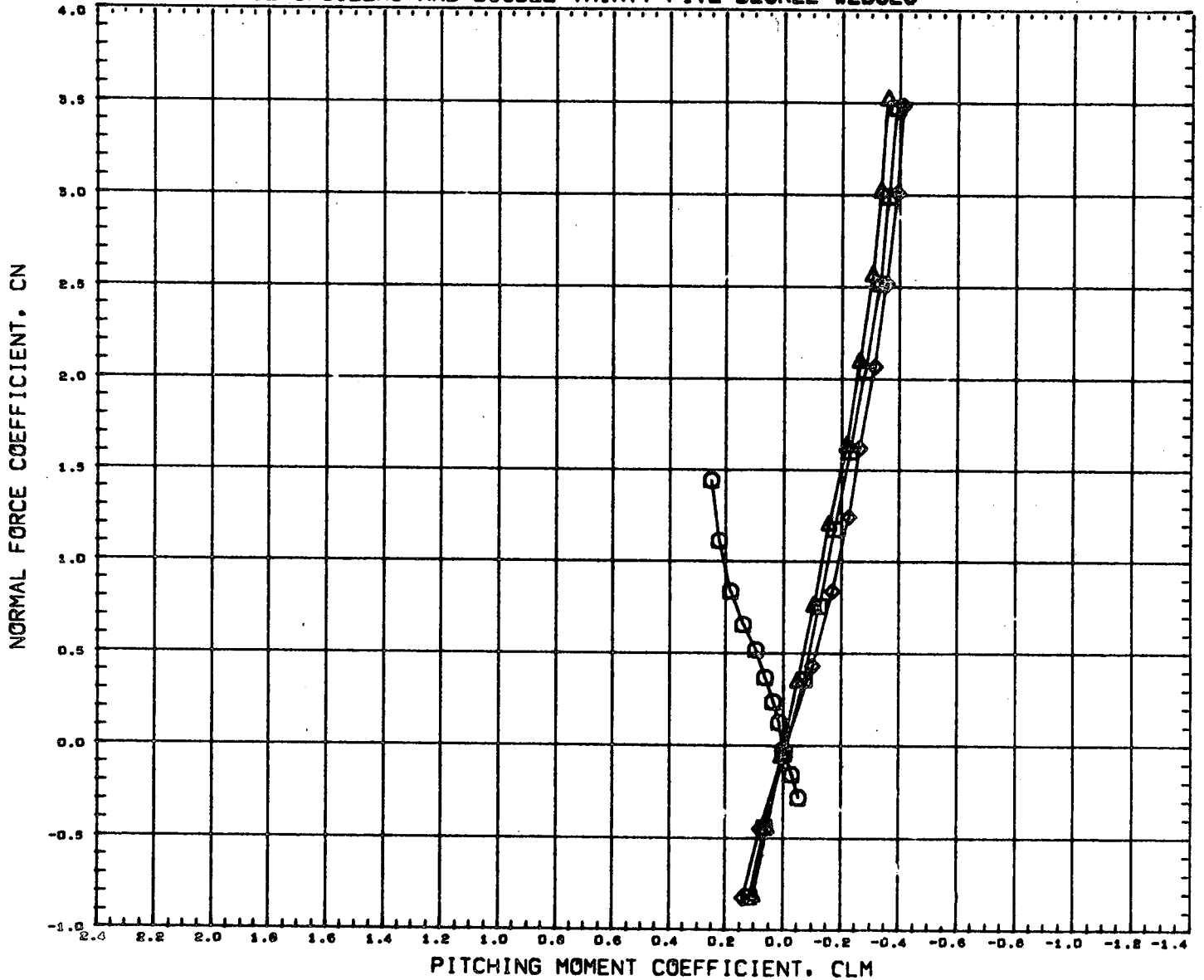


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			REF 0.9350 SQ. IN.
(E9001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90070)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D90090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	AMRP 3.7920 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 0.605

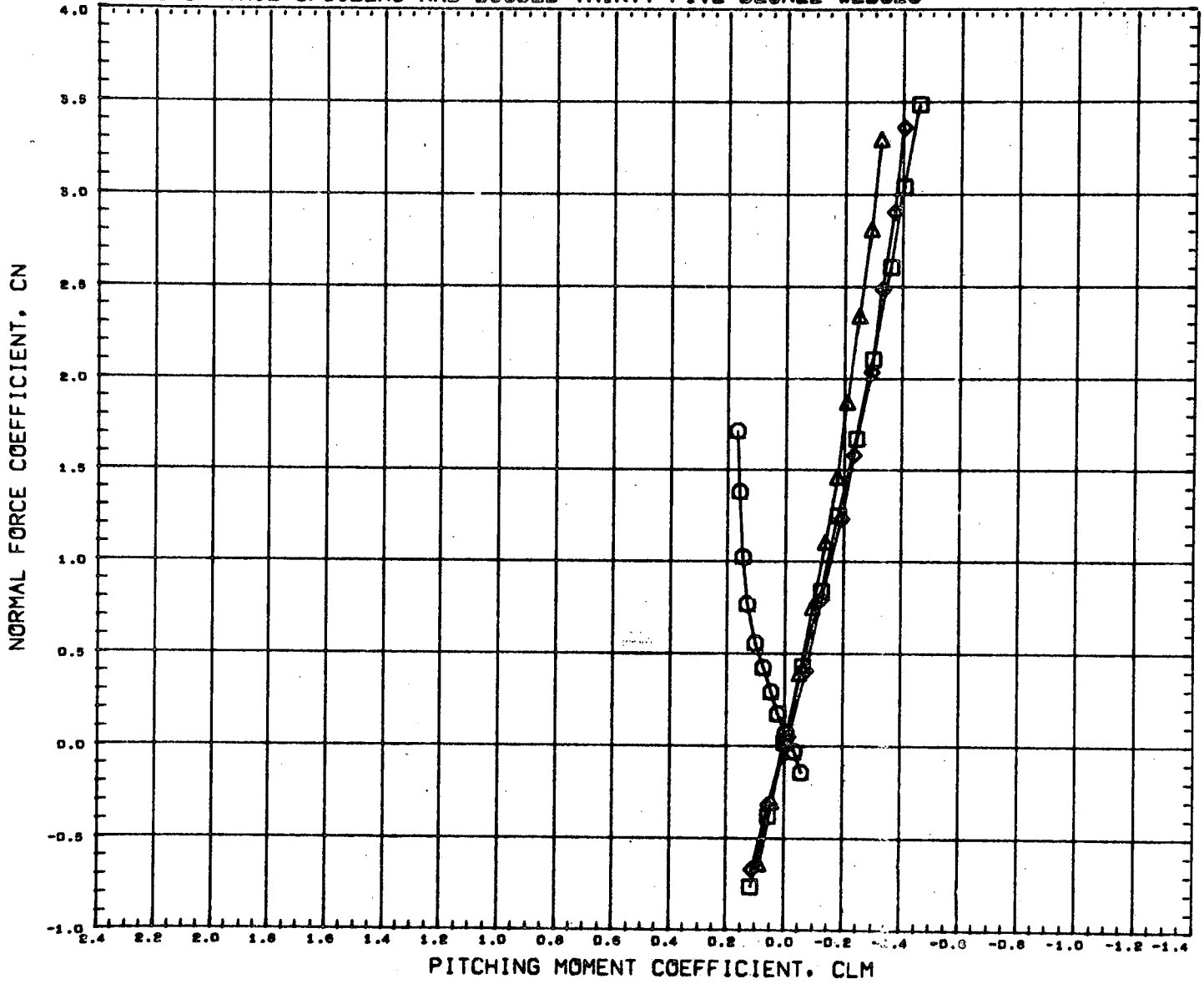
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			JREF 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003500 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50070)	MSFC 512 GD/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMPP 3.7920 INCHES
						YMPP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.438

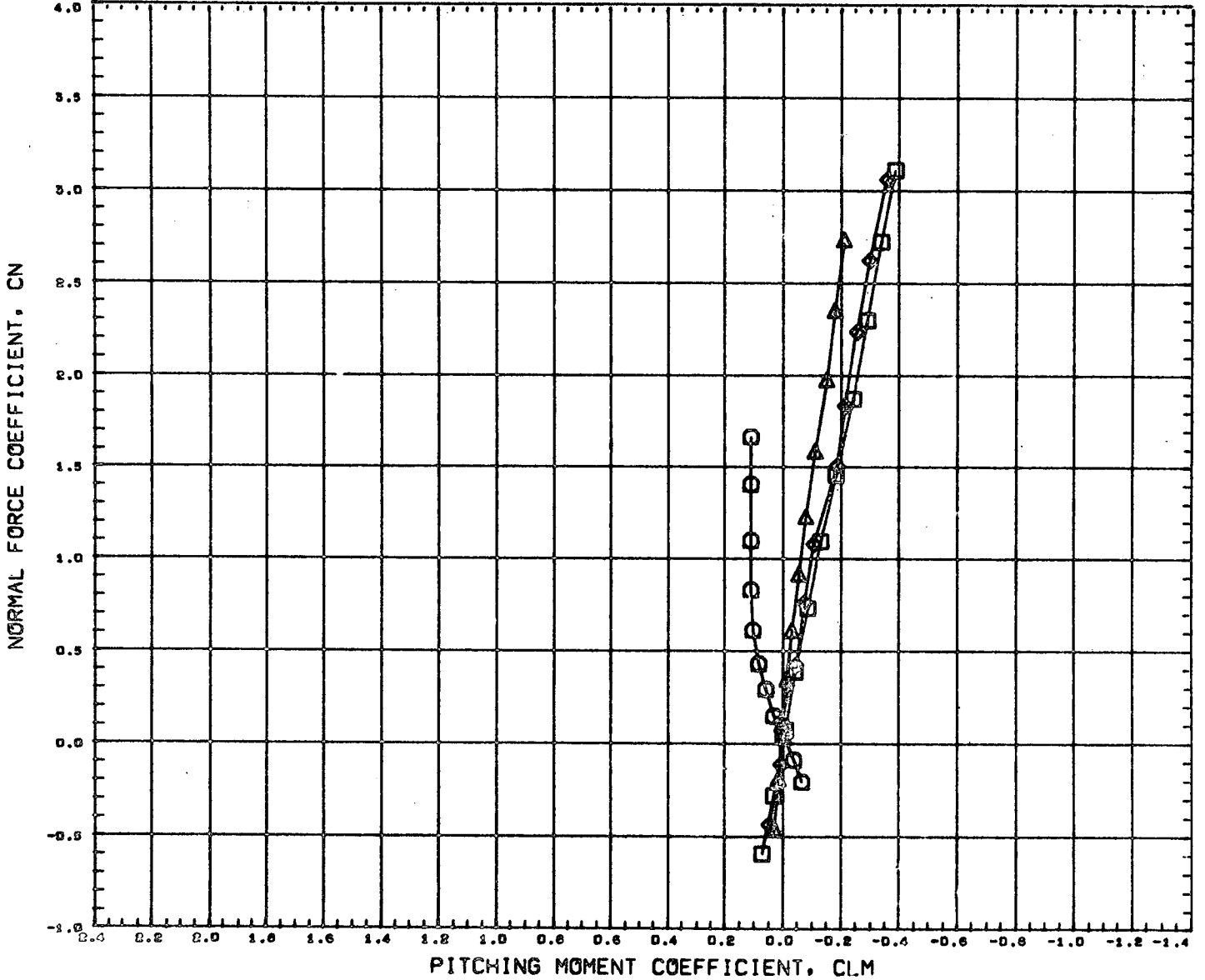
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RLAP	REFERENCE INFORMATION
(E5011A)	NSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 88.1N.
(E5001A)	NSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5007D)	NSFC 512 GD/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	NSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

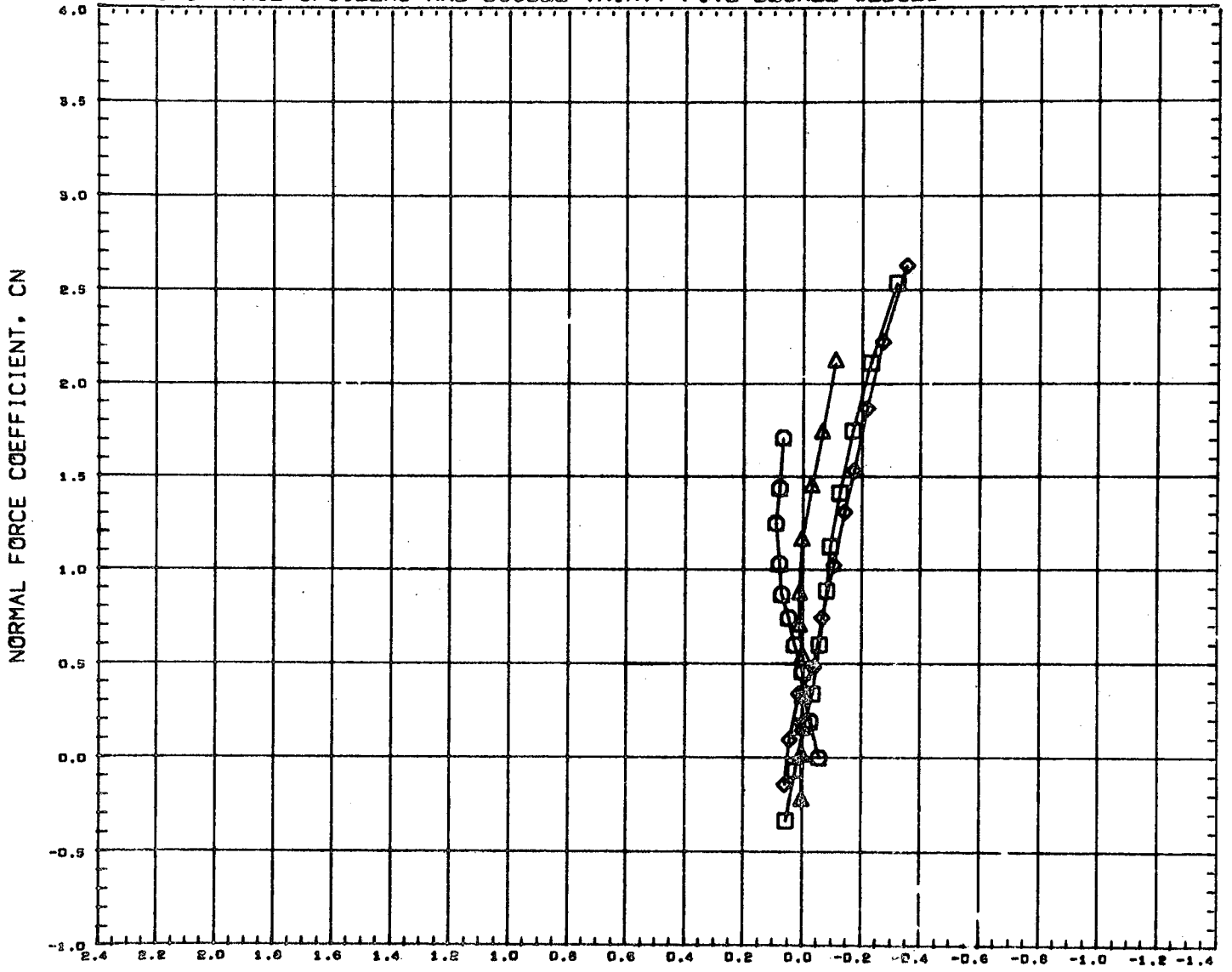
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 80. IN.
(E9001A)	MSFC 512 GD/C .003300 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9007D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D9009D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMR° 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

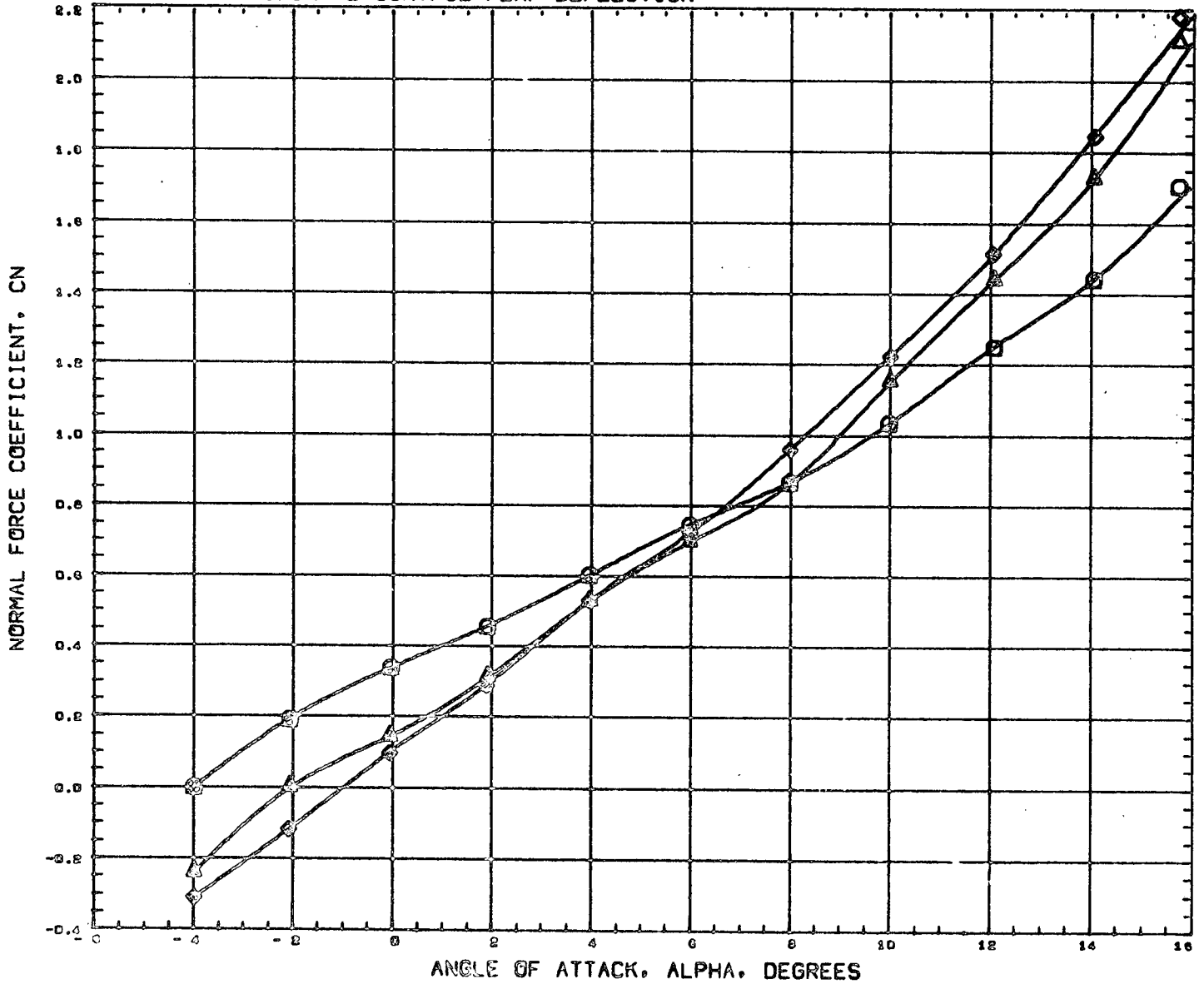
EFFECTS OF TAIL SPOILERS AND DOUBLE THIRTY-FIVE DEGREE WEDGES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			FREF 0.9350 SQ. IN.
(E9001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9007D)	MSFC 512 GD/C .003366 BOOSTER B34R6T15	0.000	0.000			BREF 1.0910 INCHES
(D9000D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	34.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

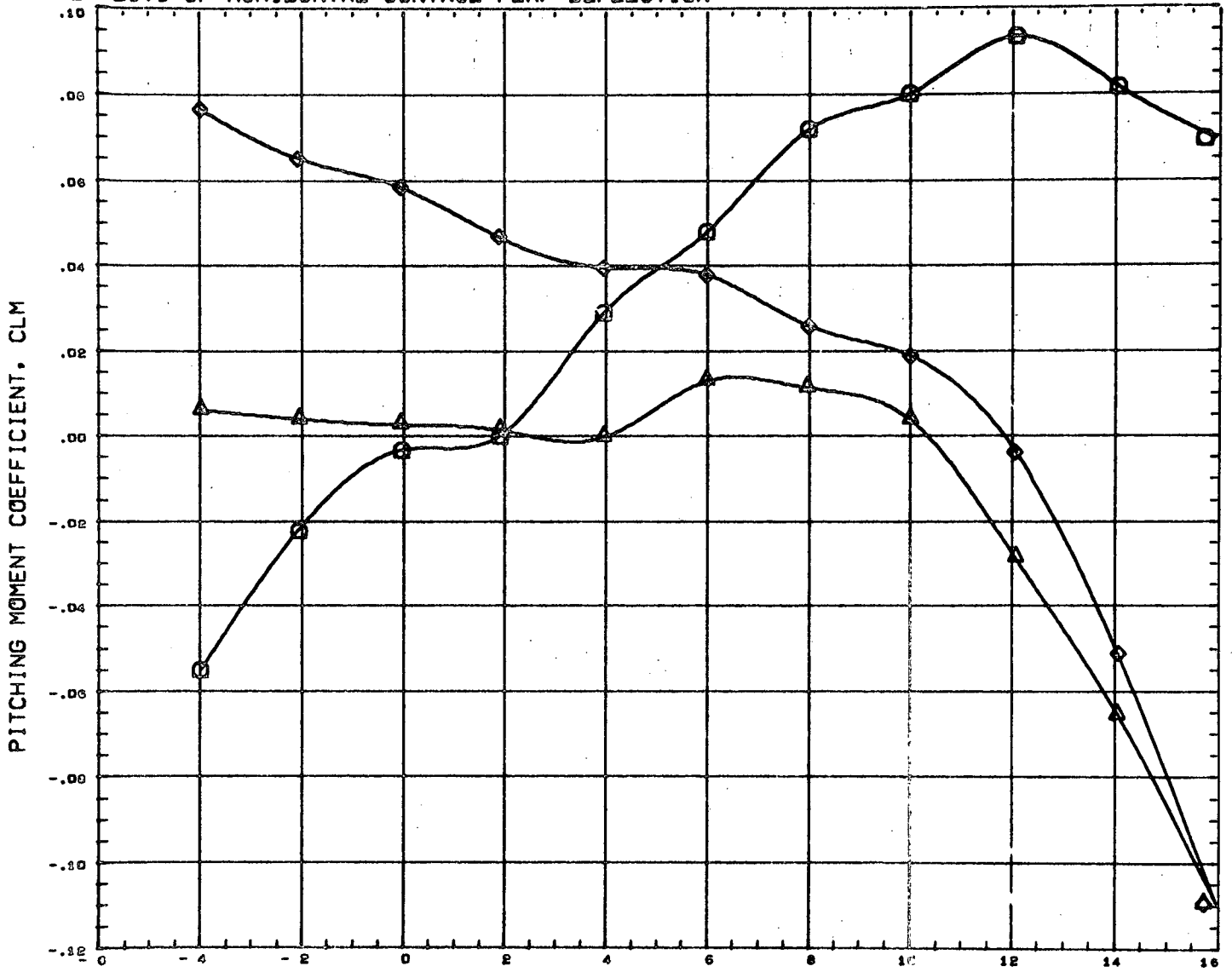
EFFECTS OF HORIZONTAL CONTROL FLAP DEFLECTION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	WBFC 512 6D/C .003500 BOOSTER 034R6	0.000	45.000			SR.L 0.9350 86.IN.
(E90018)	WBFC 512 6D/C .003500 BOOSTER 034R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50080)	WBFC 512 6D/C .003500 BOOSTER 034R6T16	0.000	0.000			BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.050

EFFECTS OF HORIZONTAL CONTROL FLAP DEFLECTION

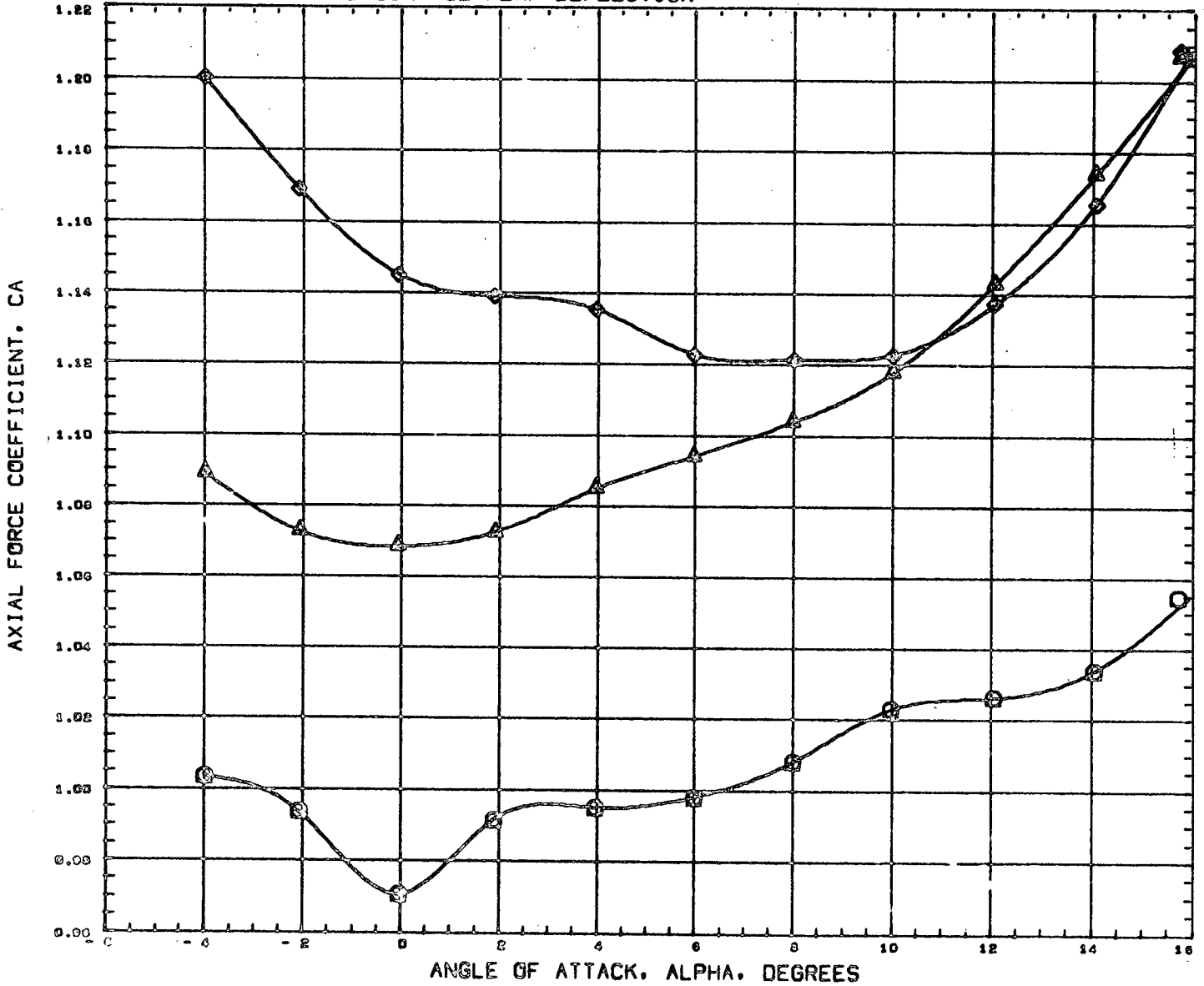


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5D11B) \square	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SKZF 0.9350 SQ. IN.
(E5D01B) \square	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50000) \diamond	MSFC 512 GD/C .003366 BOOSTER B34R6T16	0.000	0.000			BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.956

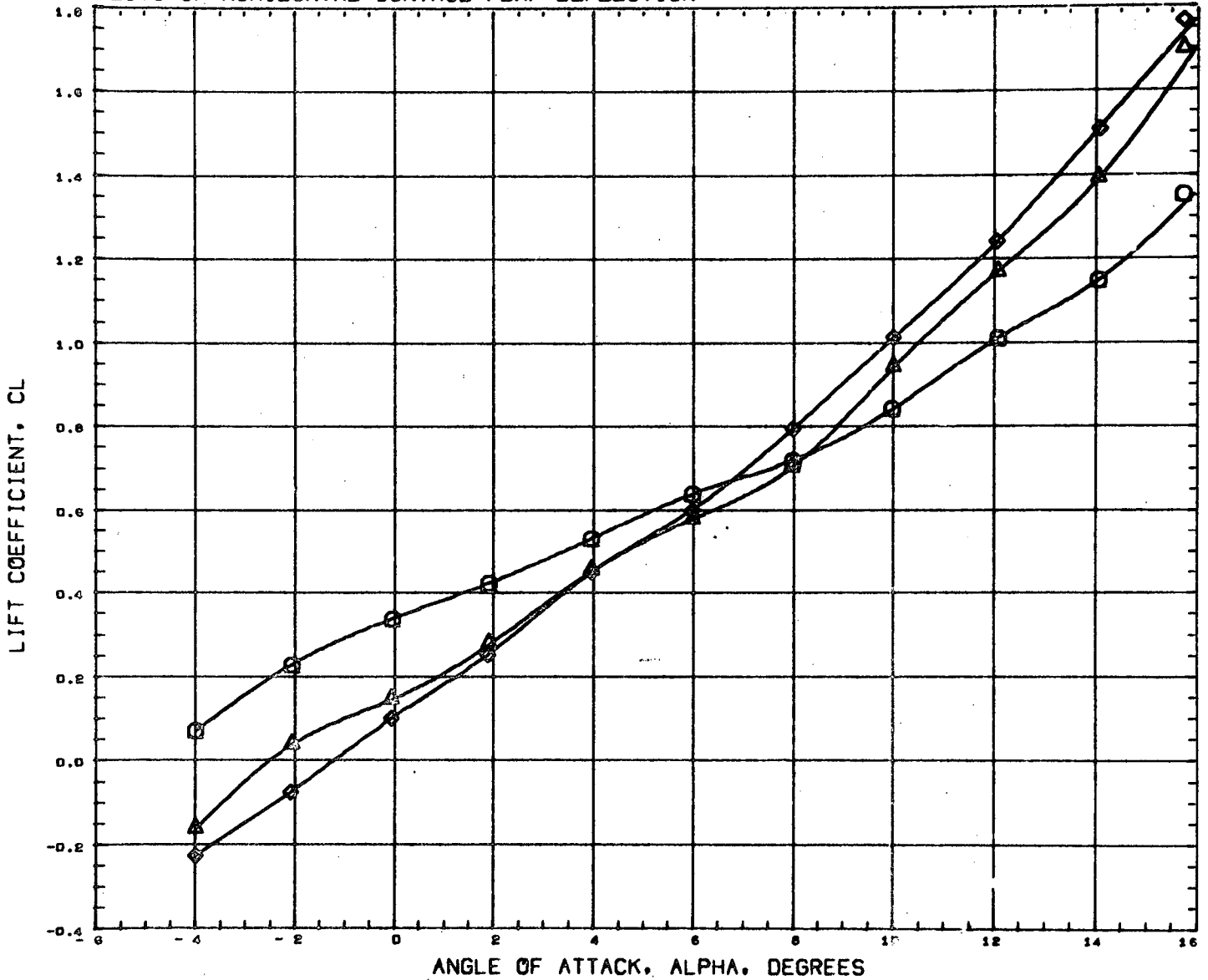
EFFECTS OF HORIZONTAL CONTROL FLAP DEFLECTION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	M8FC 512 GD/C .003300 BOOSTER	0.000	45.000			SR_L 0.9350 80. IN.
(E90010)	M8FC 512 GD/C .003300 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90000)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

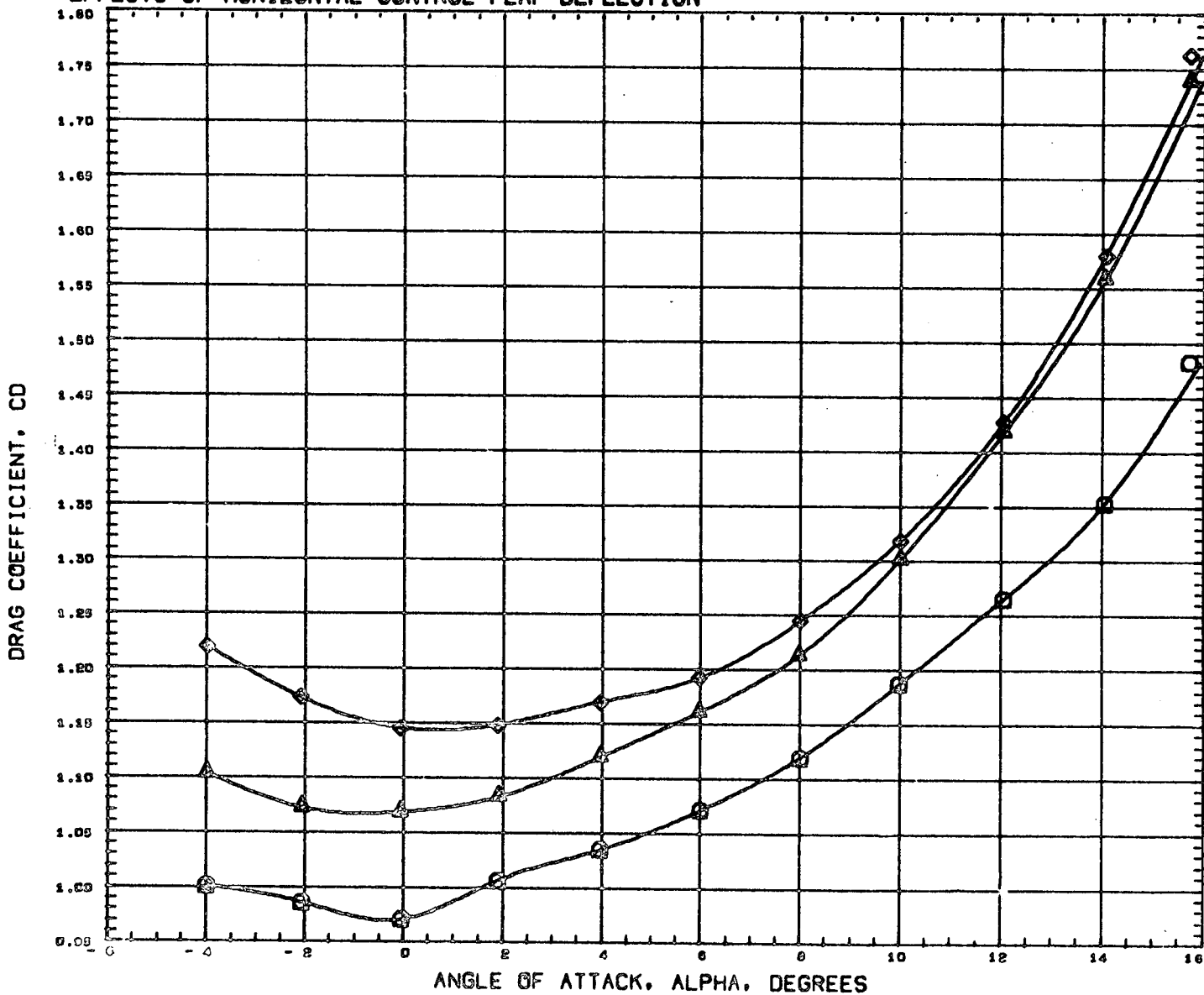
EFFECTS OF HORIZONTAL CONTROL FLAP DEFLECTION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E9011B)	M8FC 512 GD/C .003566 BOOSTER B34R6	0.000	45.000			SREF	0.9350 SQ. IN.
(E5001B)	M9FC 512 GD/C .003566 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D5000B)	M8FC 512 GD/C .003566 BOOSTER B34R6T16	0.000	0.000			BREF	1.0010 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.959

EFFECTS OF HORIZONTAL CONTROL FLAP DEFLECTION

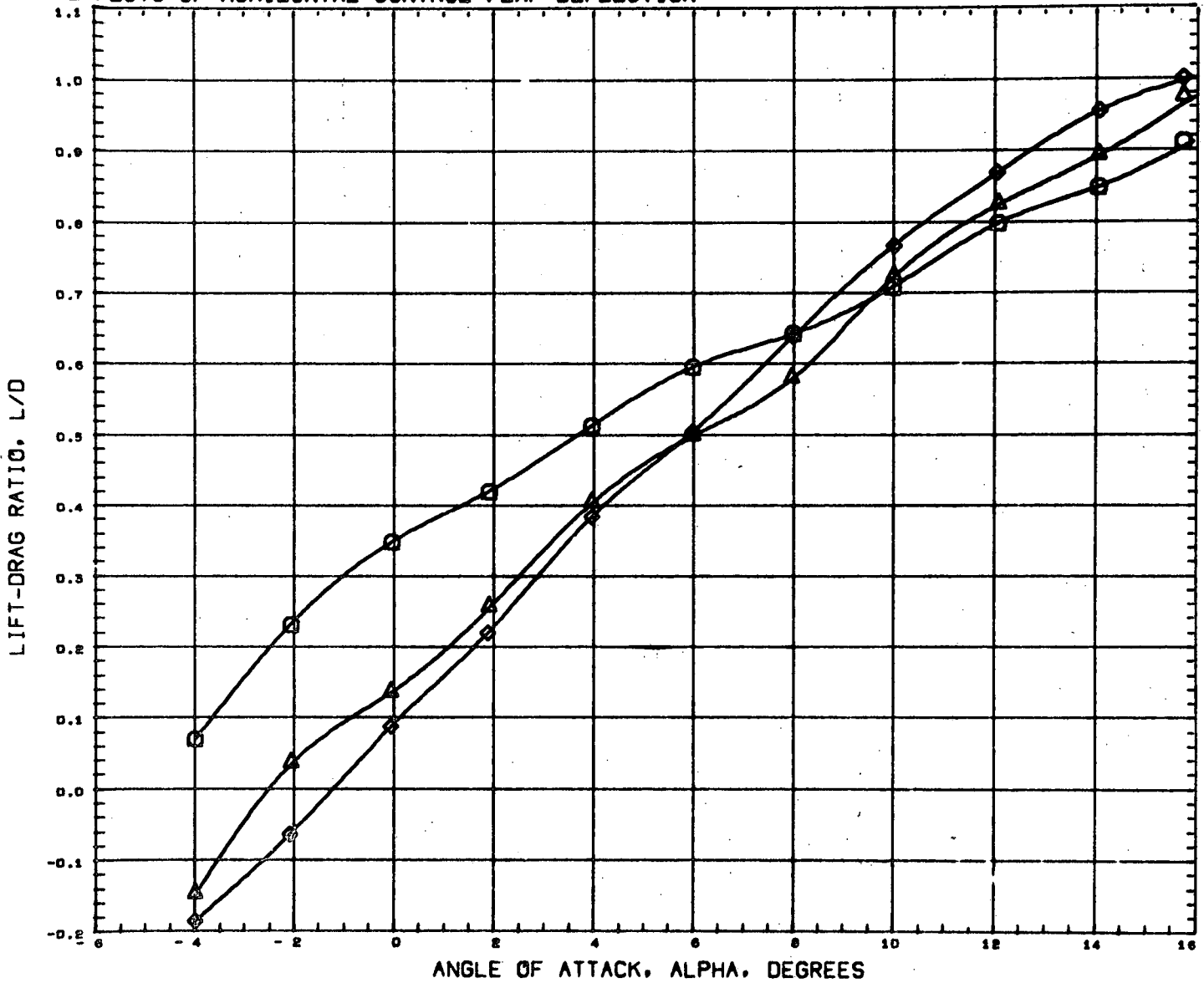


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011B)	MBFC 512 GD/C .003966 BOOSTER	0.000	48.000			SRLF 0.9350 SQ. IN.
(E5001B)	MBFC 512 GD/C .003966 BOOSTER	0.000	0.000			LREF 6.2310 INCHES
(D5000B)	MBFC 512 GD/C .003966 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.059

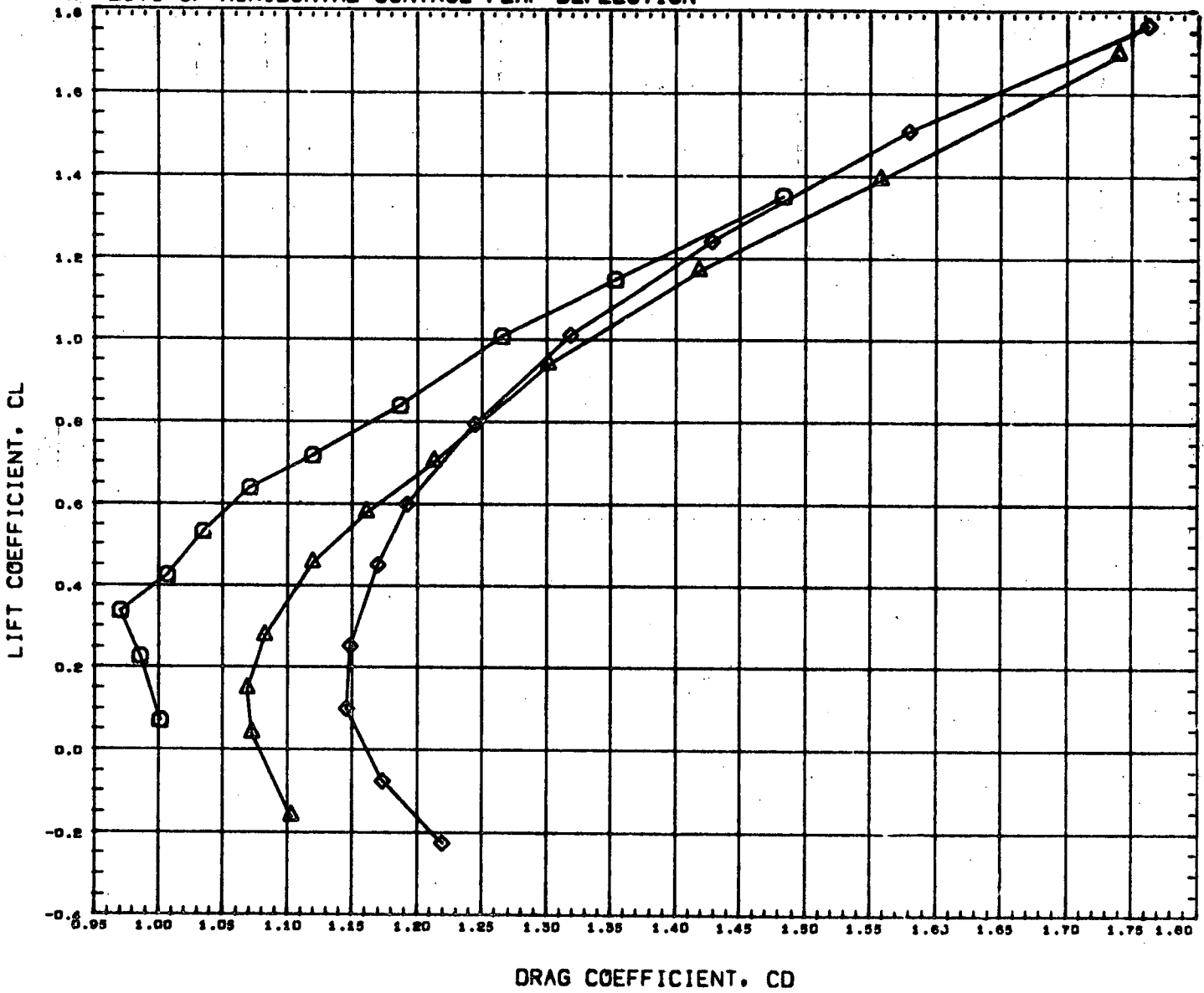
EFFECTS OF HORIZONTAL CONTROL FLAP DEFLECTION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011B)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SR-LF 0.9350 50. IN.
(E5001B)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5000B)	MSFC 512 GD/C .003366 BOOSTER B34R6T16	0.000	0.000			BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.859

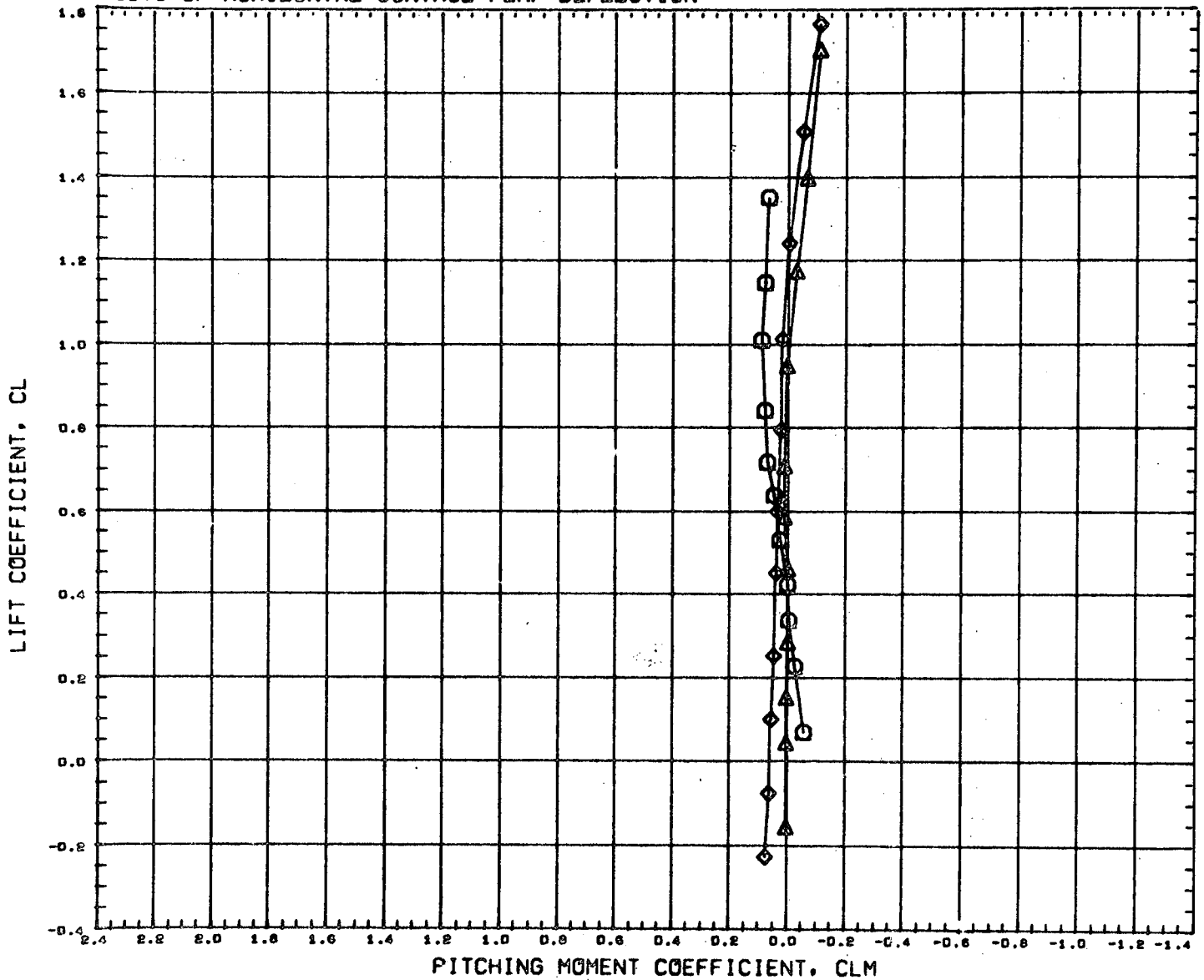
EFFECTS OF HORIZONTAL CONTROL FLAP DEFLECTION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E8011B)	MSFC 512 GD/C .003880 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.0350 SQ. IN.
(E8001B)	MSFC 512 GD/C .003866 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(08006B)	MSFC 512 GD/C .003866 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

EFFECTS OF HORIZONTAL CONTROL FLAP DEFLECTION

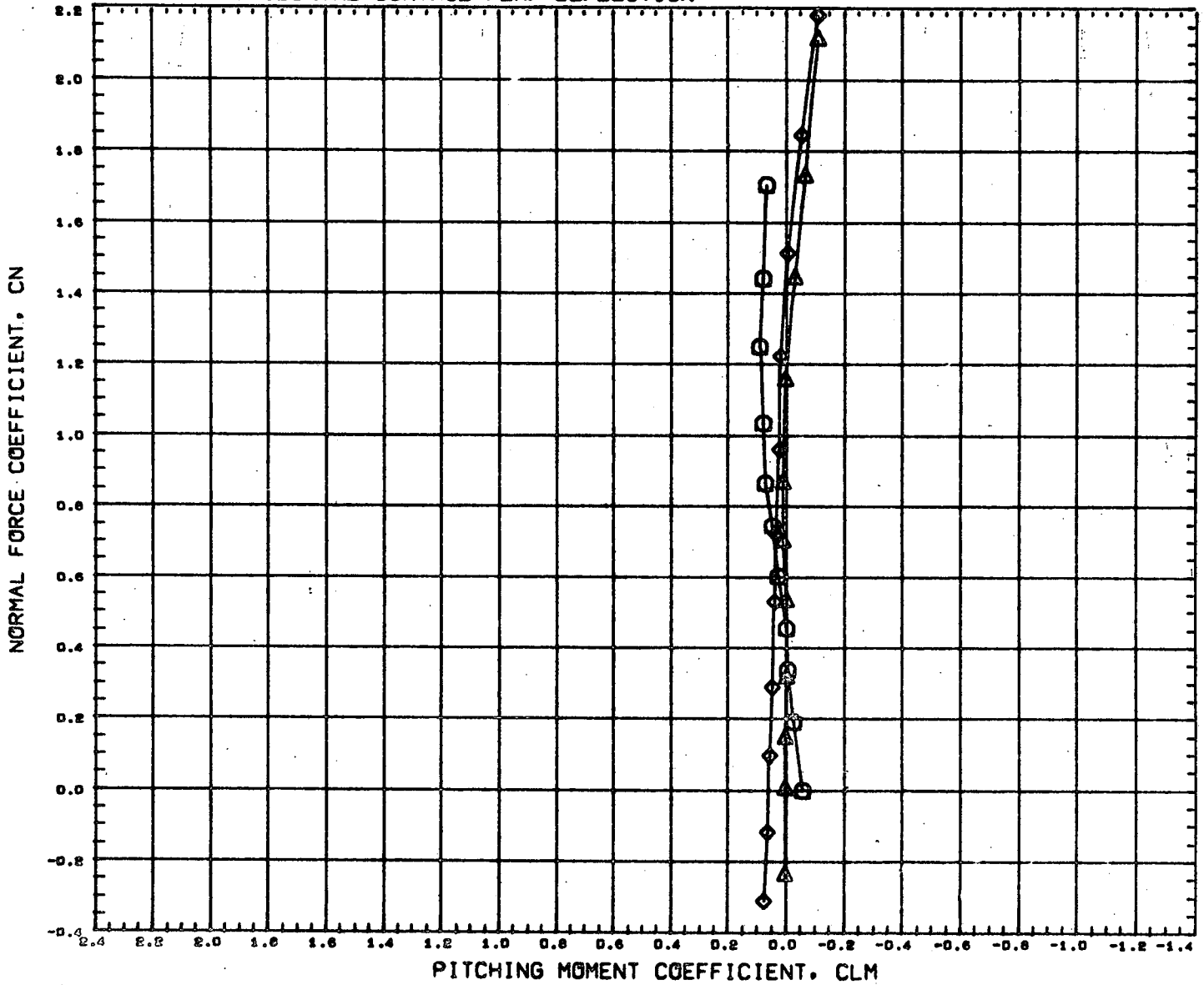


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(ES011B) ○	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SPTF 0.9350 SQ. IN.
(ES001B) △	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000			LREF 6.2310 INCHES
(DS0080) ◇	MSFC 512 GD/C .003366 BOOSTER B34R6T16	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMR? 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

HACH 4.859

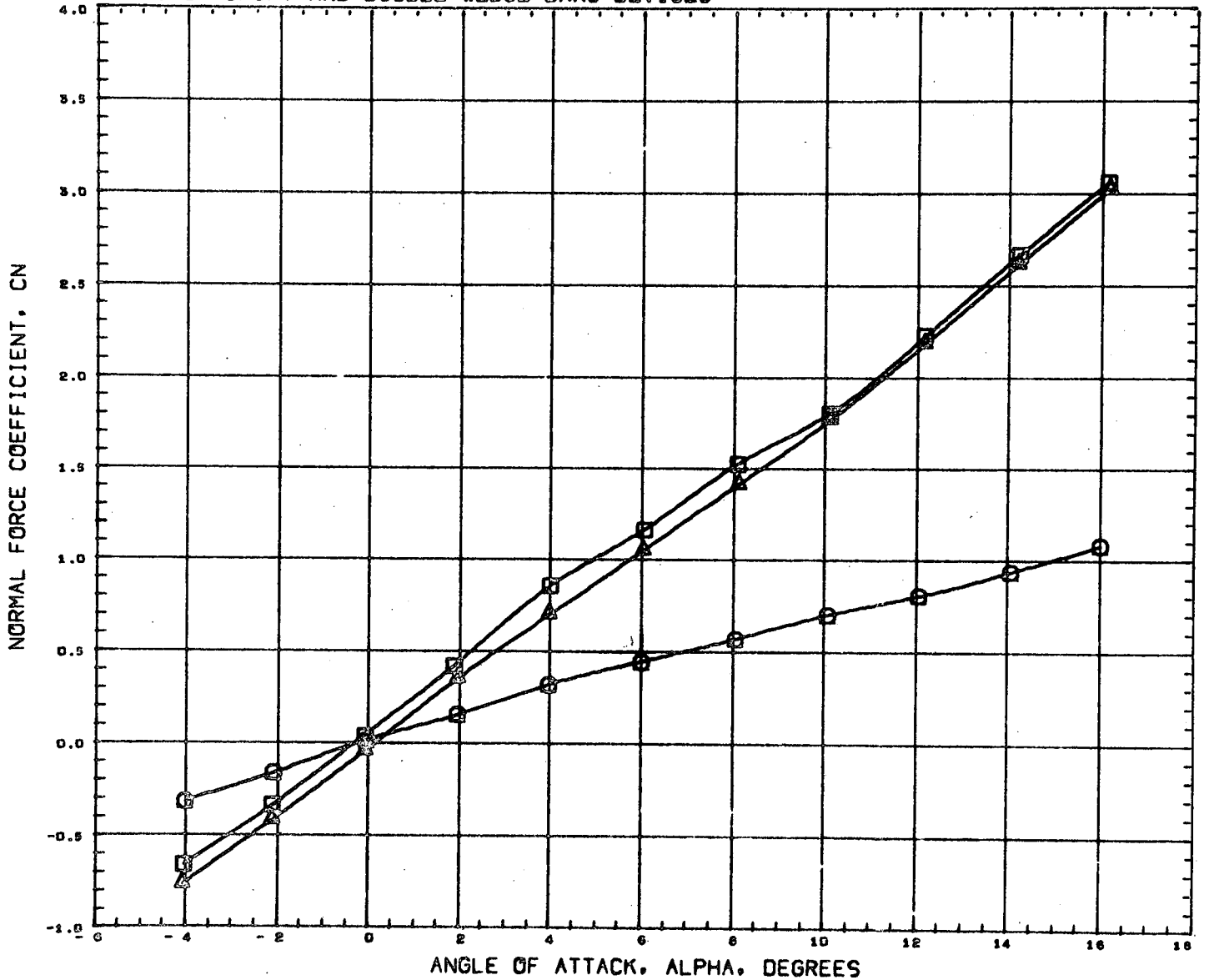
EFFECTS OF HORIZONTAL CONTROL FLAP DEFLECTION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011B)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 89.1N.
(E8001B)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5008D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

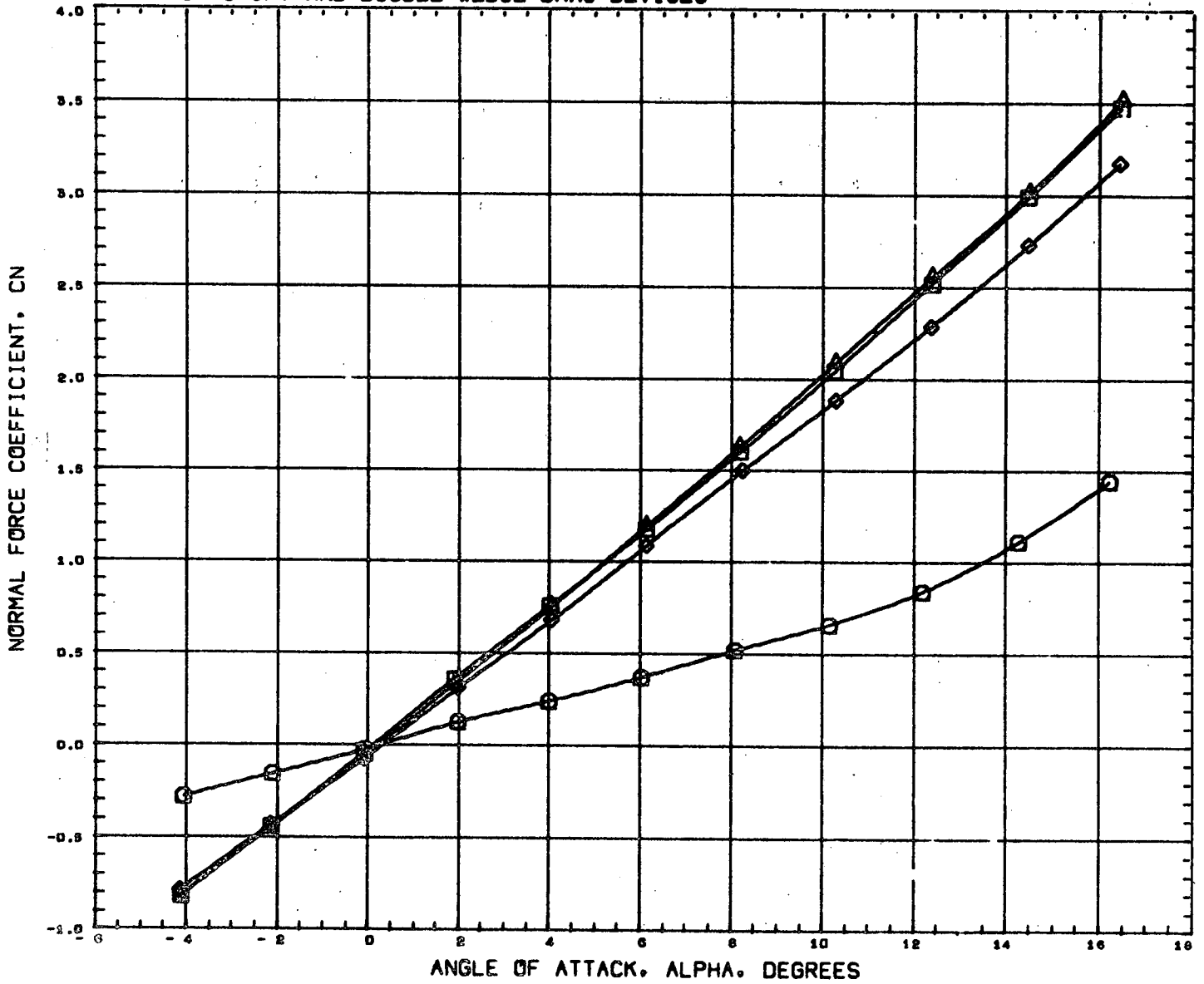
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			LREF 0.9350 SQ. IN.
(E9001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D90000)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	34.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

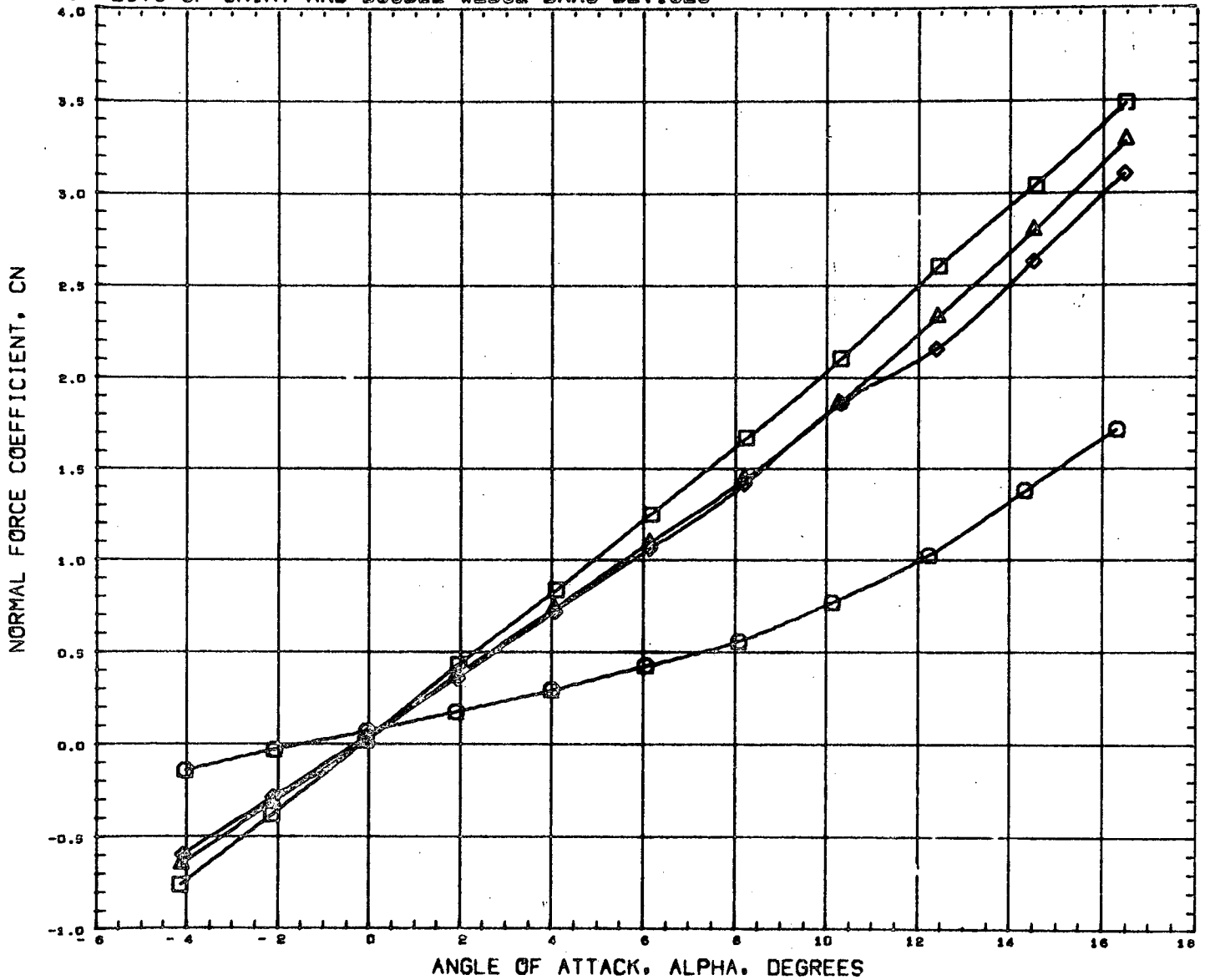
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003900 BOOSTER B34R6	0.000	45.000			SRTP 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003900 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003966 BOOSTER B34R6S3T10	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003966 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

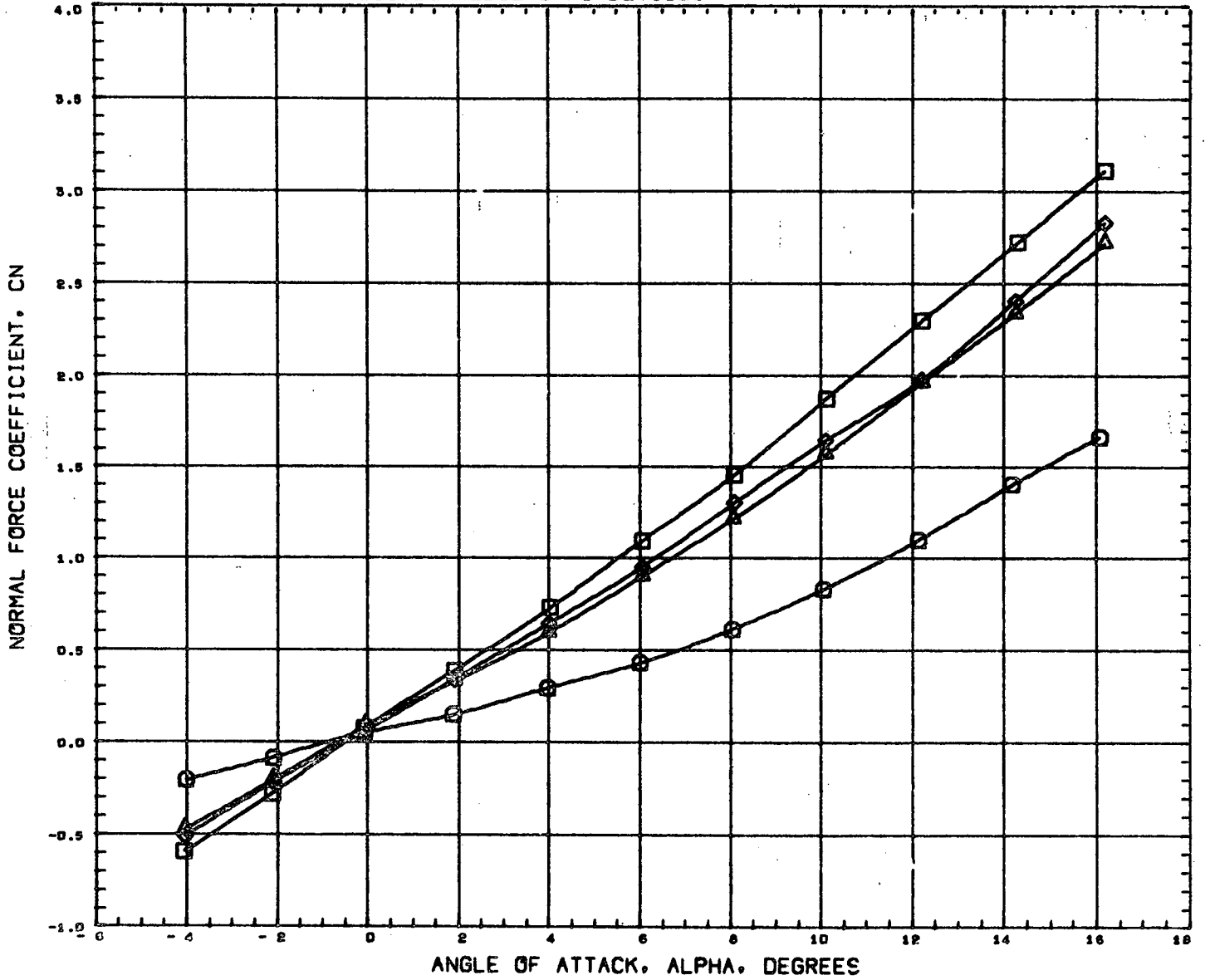
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	R'LAP	REFERENCE INFORMATION
(E5D11A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SKRF 0.9350 SQ. IN.
(E5D01A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5D10D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			RREF 1.0910 INCHES
(D5D09D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.066

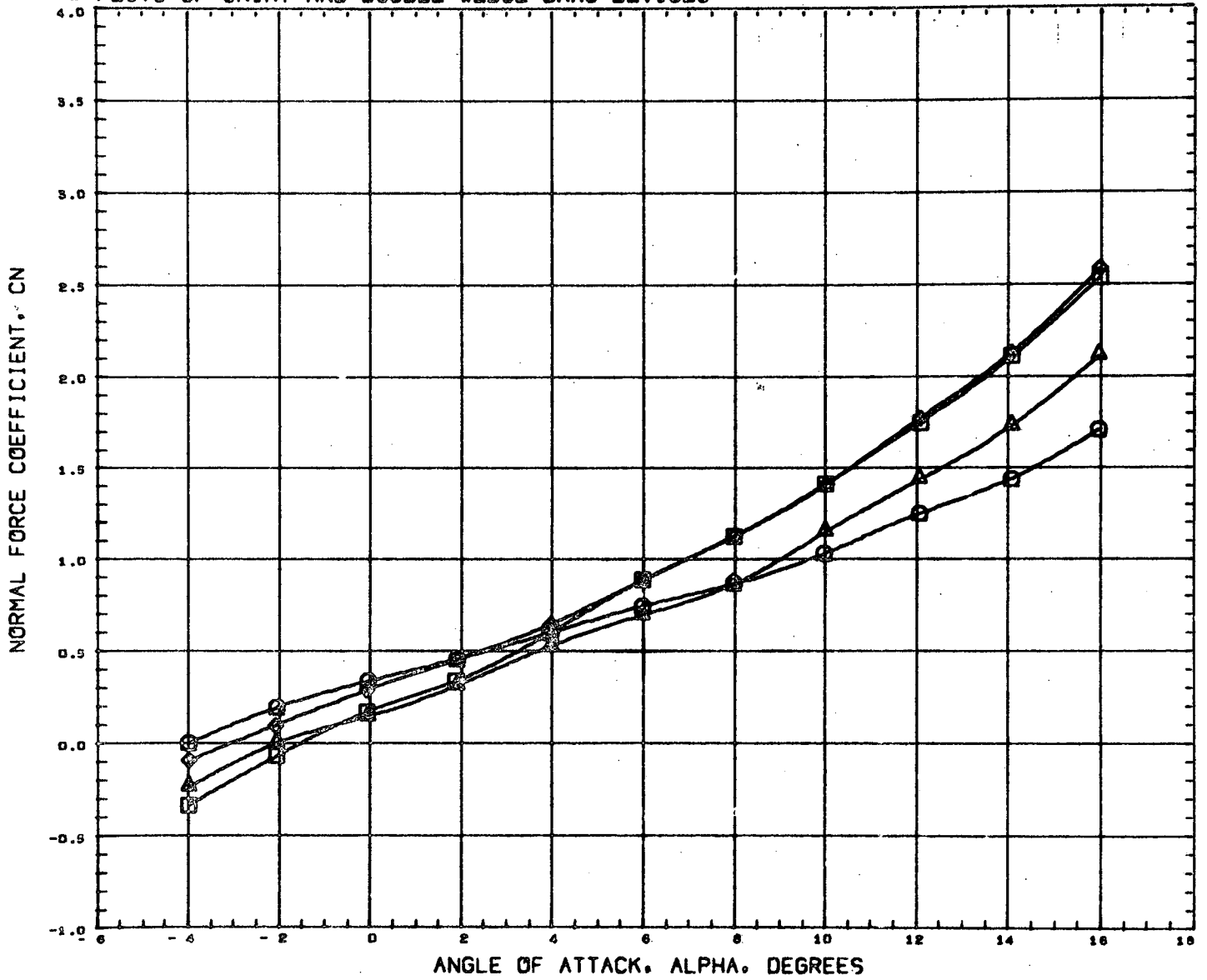
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .003368 BOOSTER	0.000	45.000			SKREF 0.9350 80. IN.
(E9001A)	MSFC 512 GD/C .003368 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	MSFC 512 GD/C .003368 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D90090)	MSFC 512 GD/C .003368 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

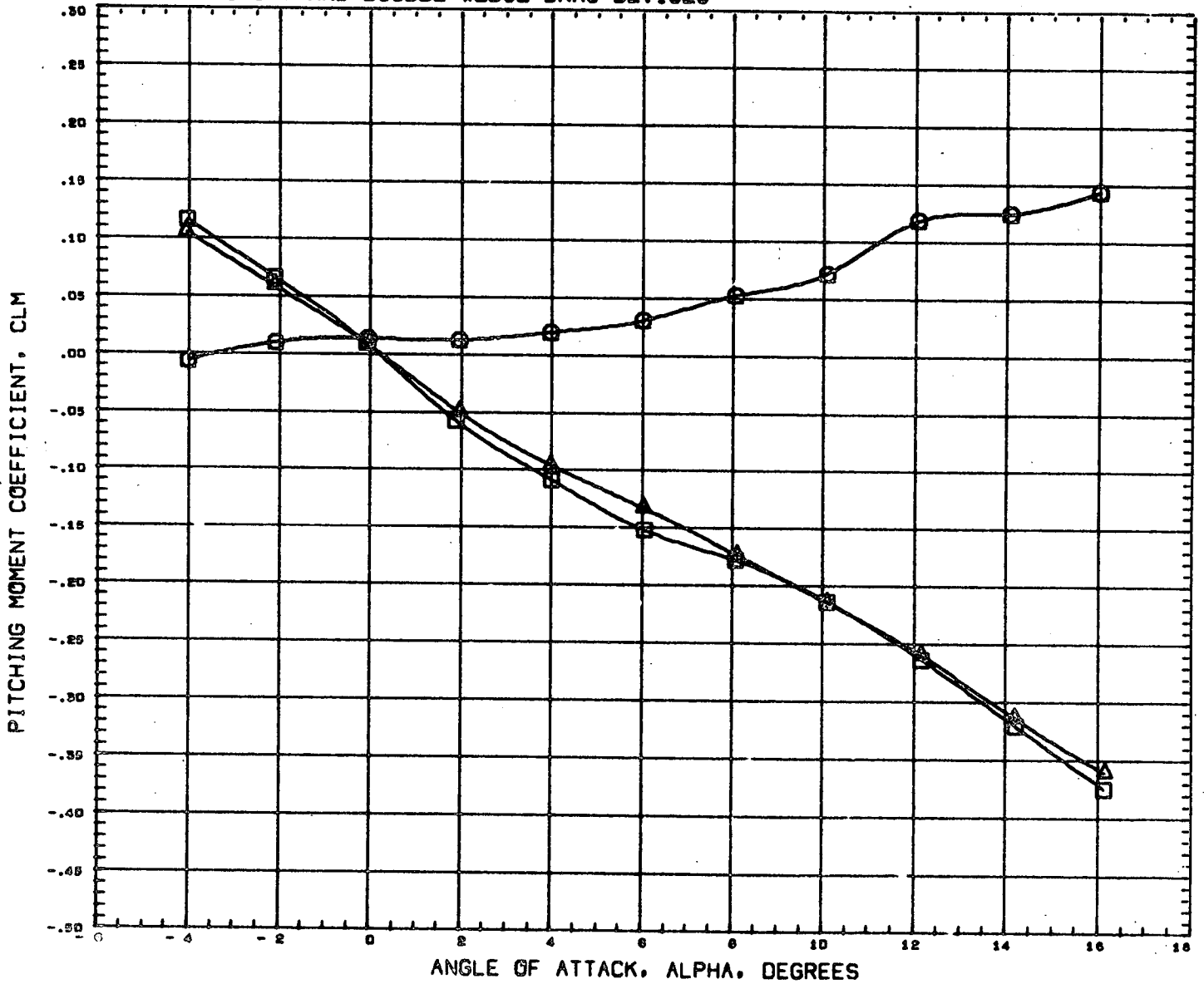
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 80. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50000)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	37.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

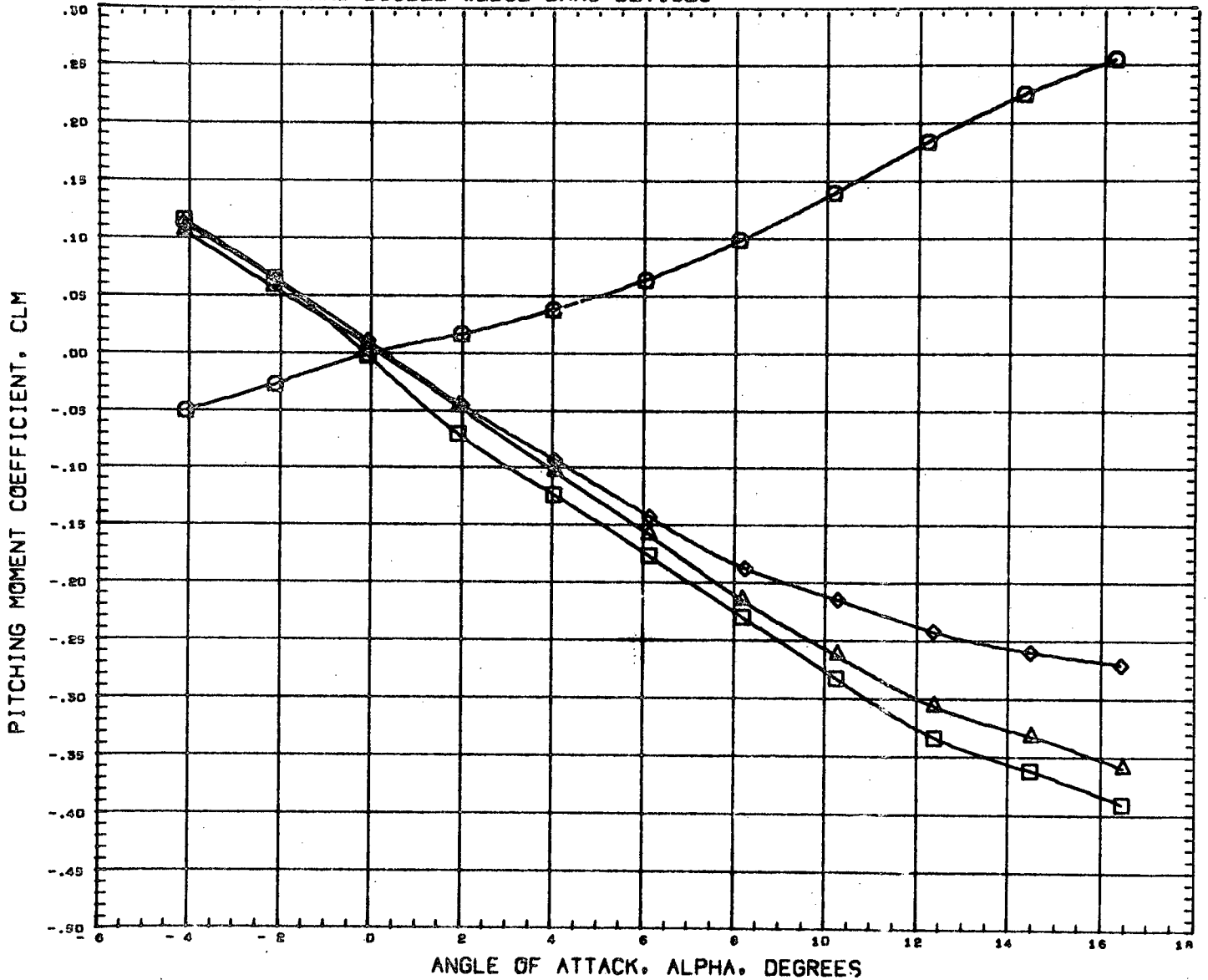
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001A)	MBFC 512 GD/C .005366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001A)	MBFC 512 GD/C .005366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D500100)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D50000)	MBFC 512 GD/C .005366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

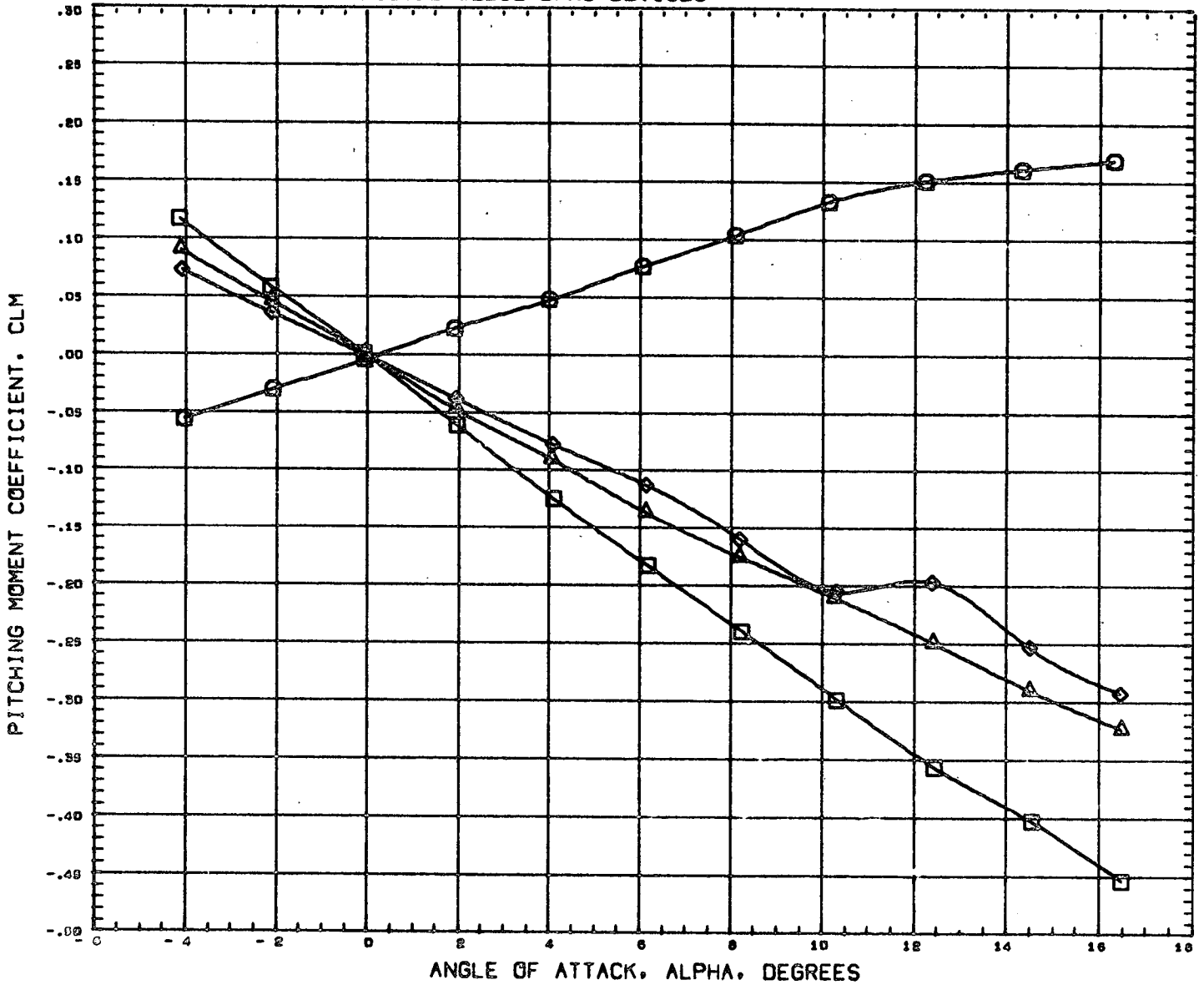
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RELAP	REFERENCE INFORMATION
(E5011A)	HSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001A)	HSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	HSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50090)	HSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.456

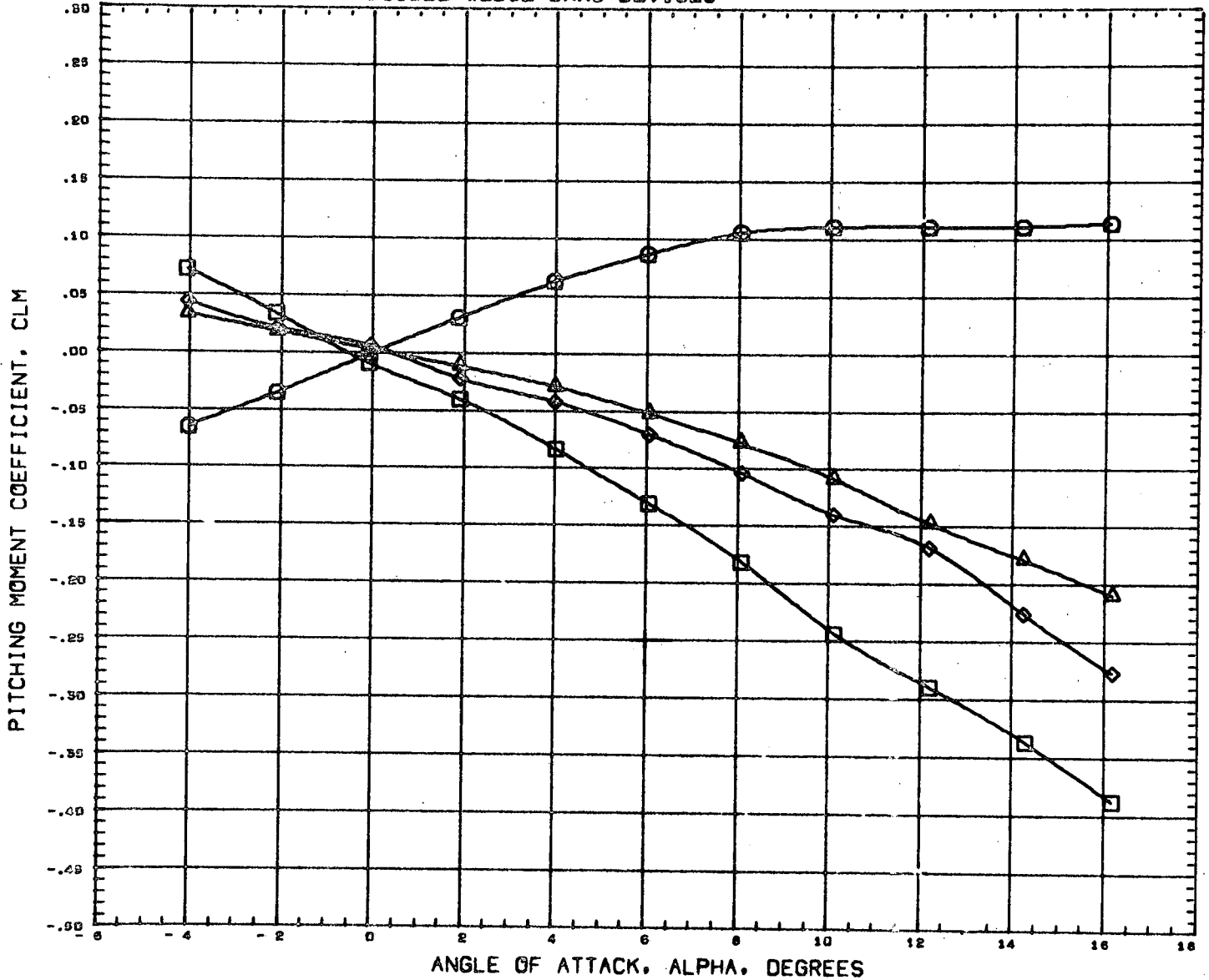
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	M8FC 512 GD/C .003366 BOOSTER	0.000	45.000			SR...T 0.9350 SQ. IN.
(E9001A)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D90000)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

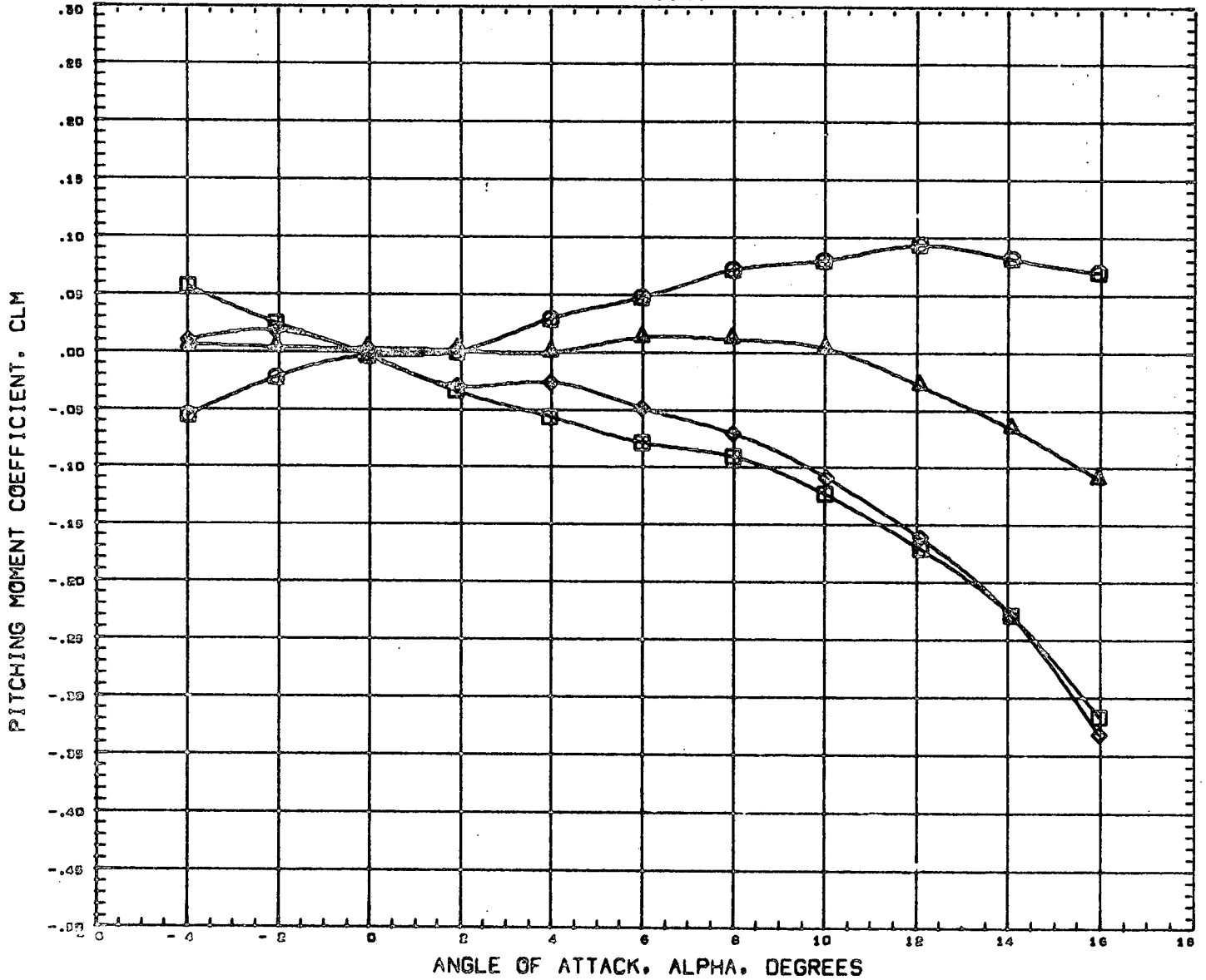
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRTF 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	MSFC 512 GD/C .003366 BOOSTER B34R6S3T10	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

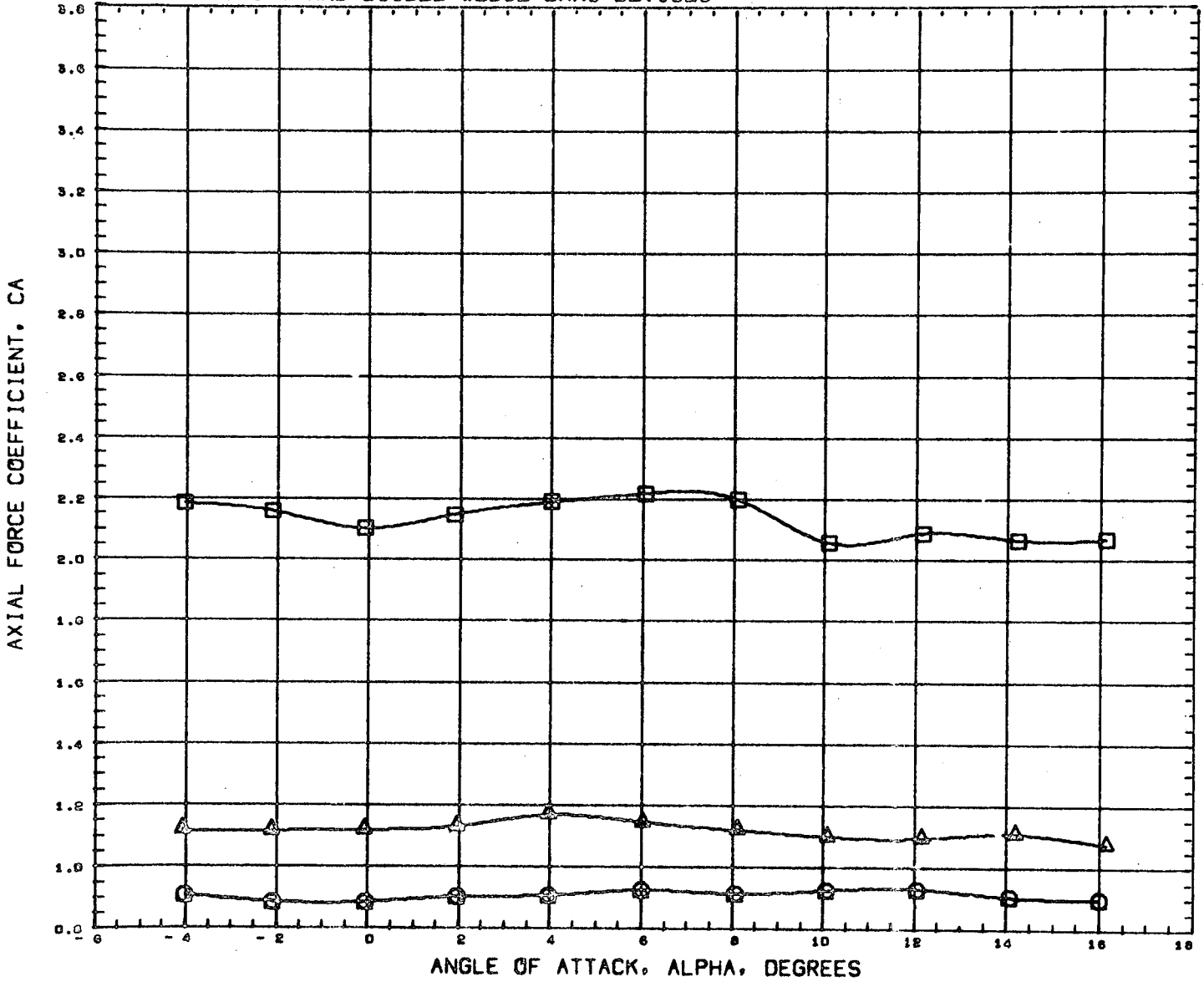
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	NSFC 512 GD/C .003330 DOOBYER B34RG	0.000	45.000			SRJF 0.9350 89. IN.
(E5001A)	NSFC 512 GD/C .003330 DOOBYER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	NSFC 512 GD/C .003366 DOOBYER B34R6S3T10	0.000	0.000			BREF 1.0910 INCHES
(D50000)	NSFC 512 GD/C .003366 DOOBYER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 4.956

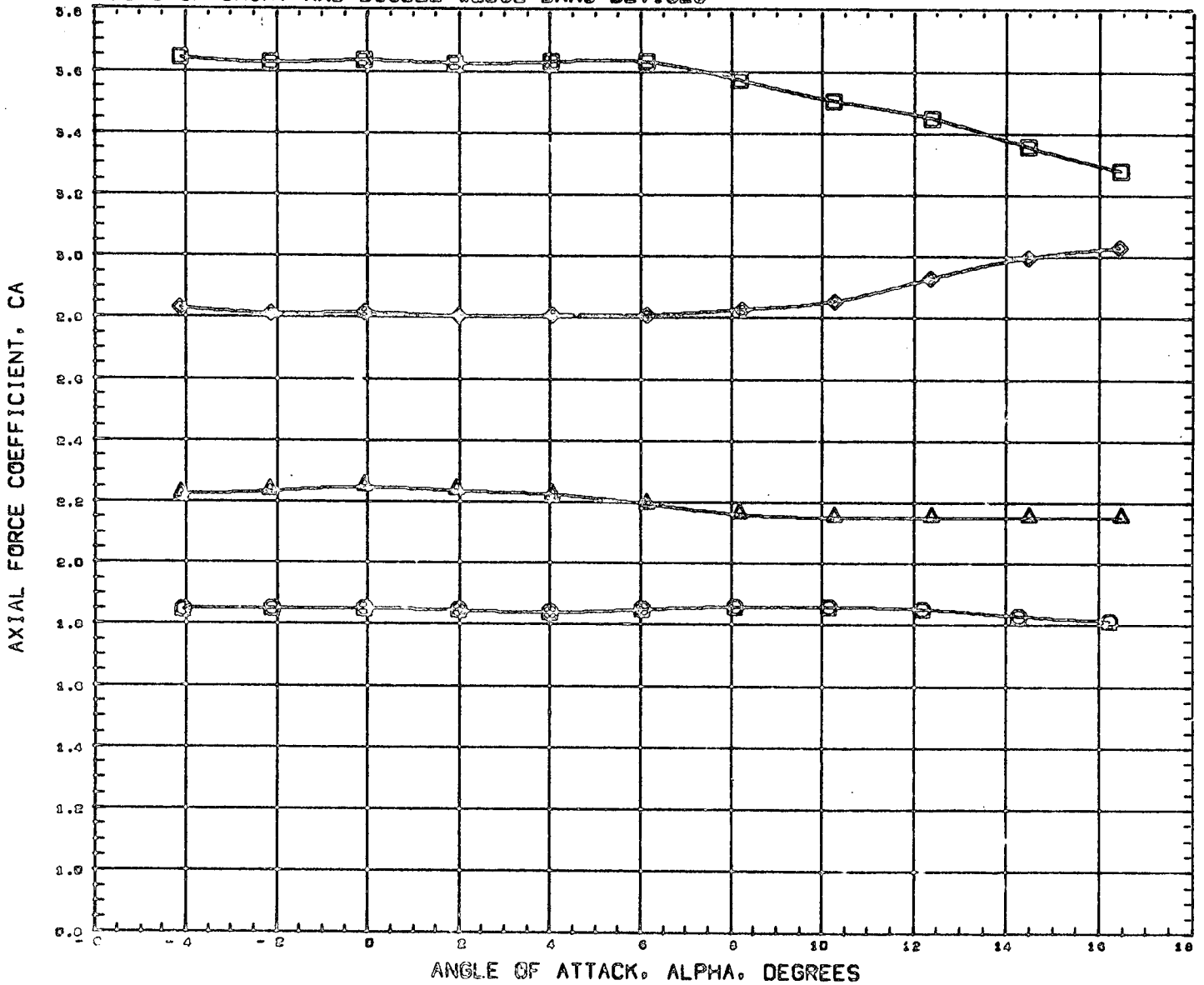
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRLF 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.605

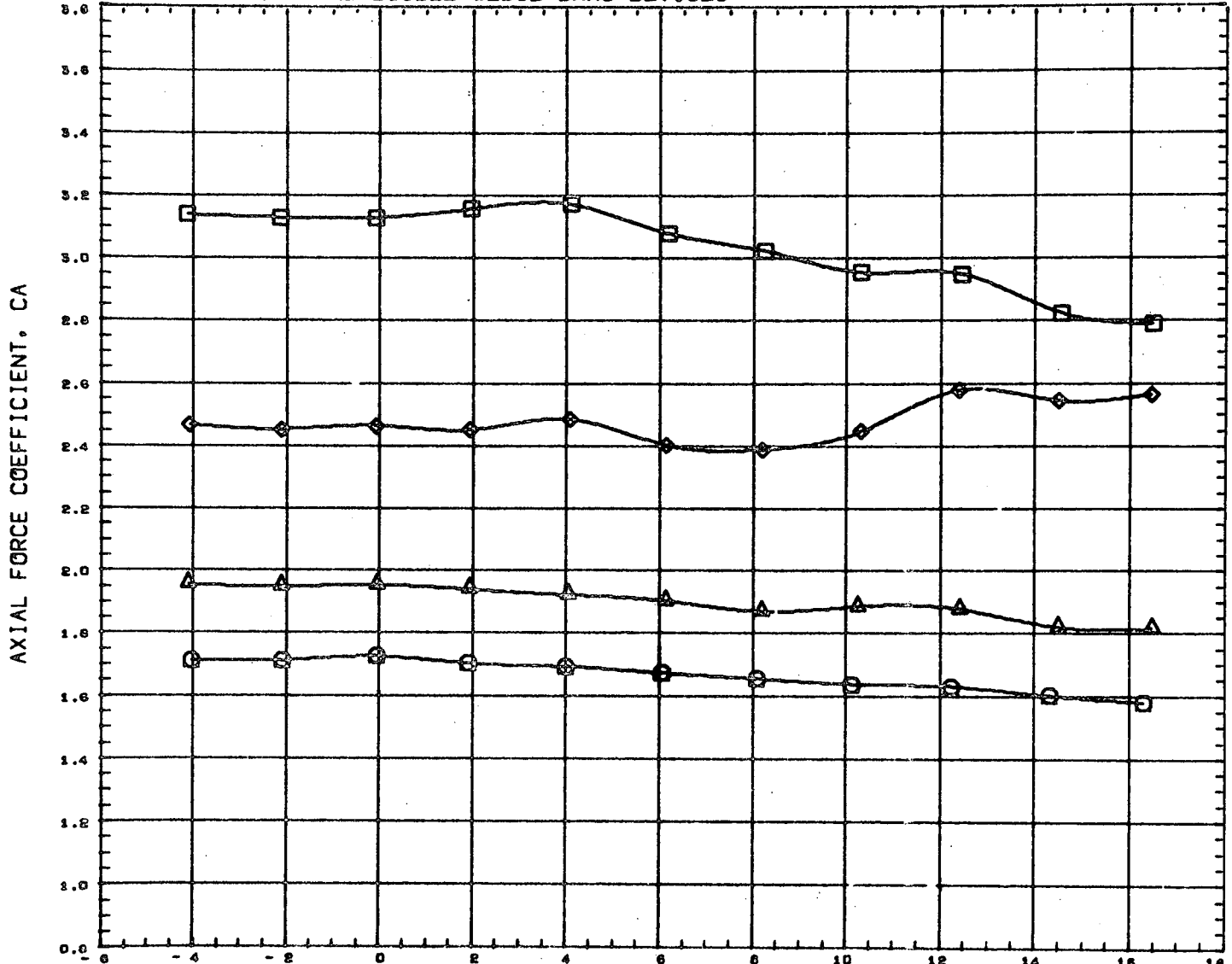
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHI MOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	HDPC 512 GD/C .003366 COASTER 834R8	0.000	45.000			SRE 0.9350 80.1N.
(E9002A)	HDPC 512 GD/C .003366 COASTER 834R8710	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	HDPC 512 GD/C .003366 COASTER 834R893710	0.000	0.000			BREF 1.0910 INCHES
(D00000)	HDPC 512 GD/C .003366 COASTER 834R8717	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.400

EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES

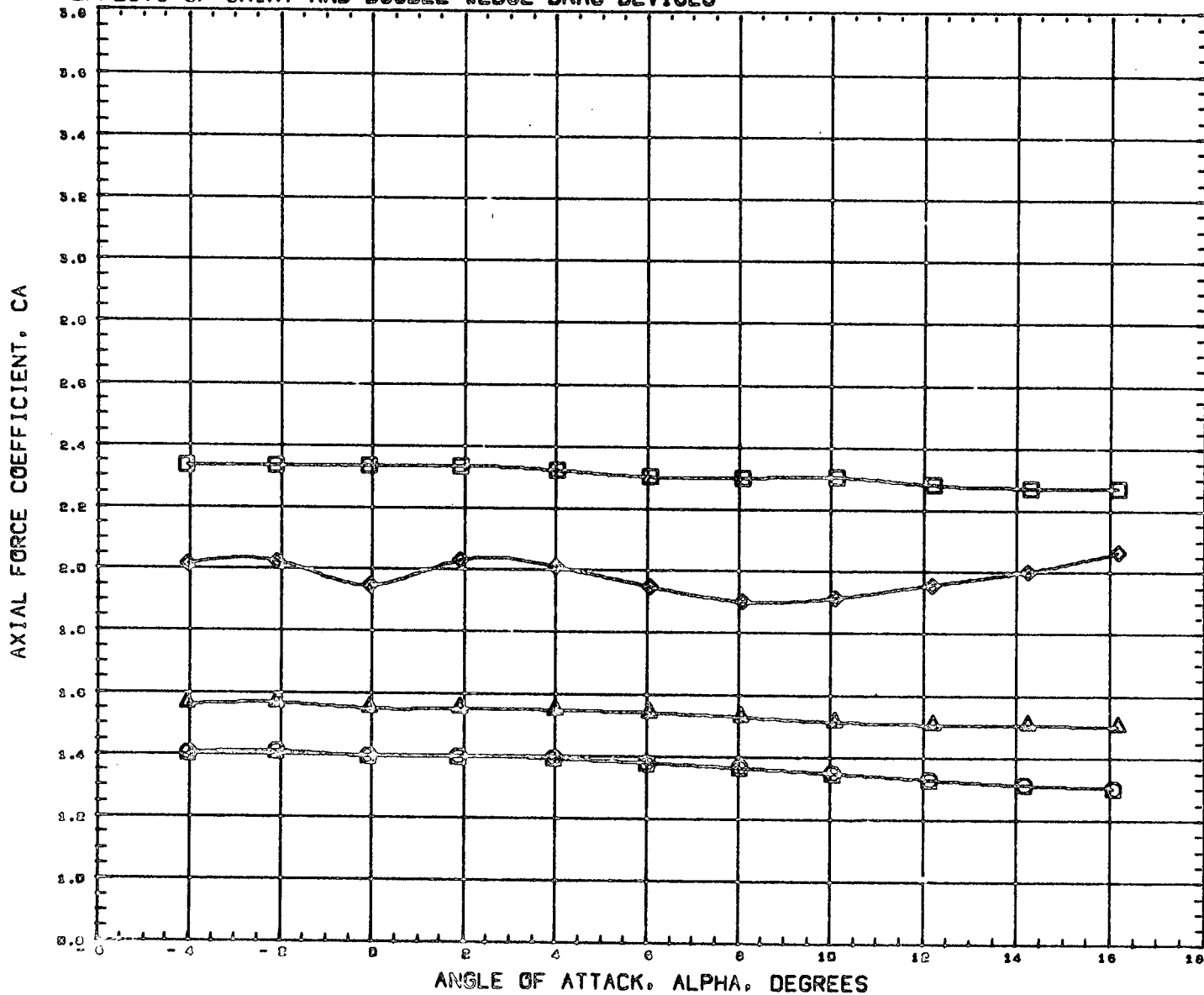


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	R-LAP	REFERENCE INFORMATION
(E5011A)	□	MSFC 512 6D/C .003366 BOOSTER B34R6	0.000	45.000			S.EF 0.9350 80. IN.
(E5001A)	◇	MSFC 512 6D/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	△	MSFC 512 6D/C .003366 BOOSTER B34R6S3T10	0.000	0.000			BREF 1.0910 INCHES
(D50090)	○	MSFC 512 6D/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	3.000	XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.965

EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES

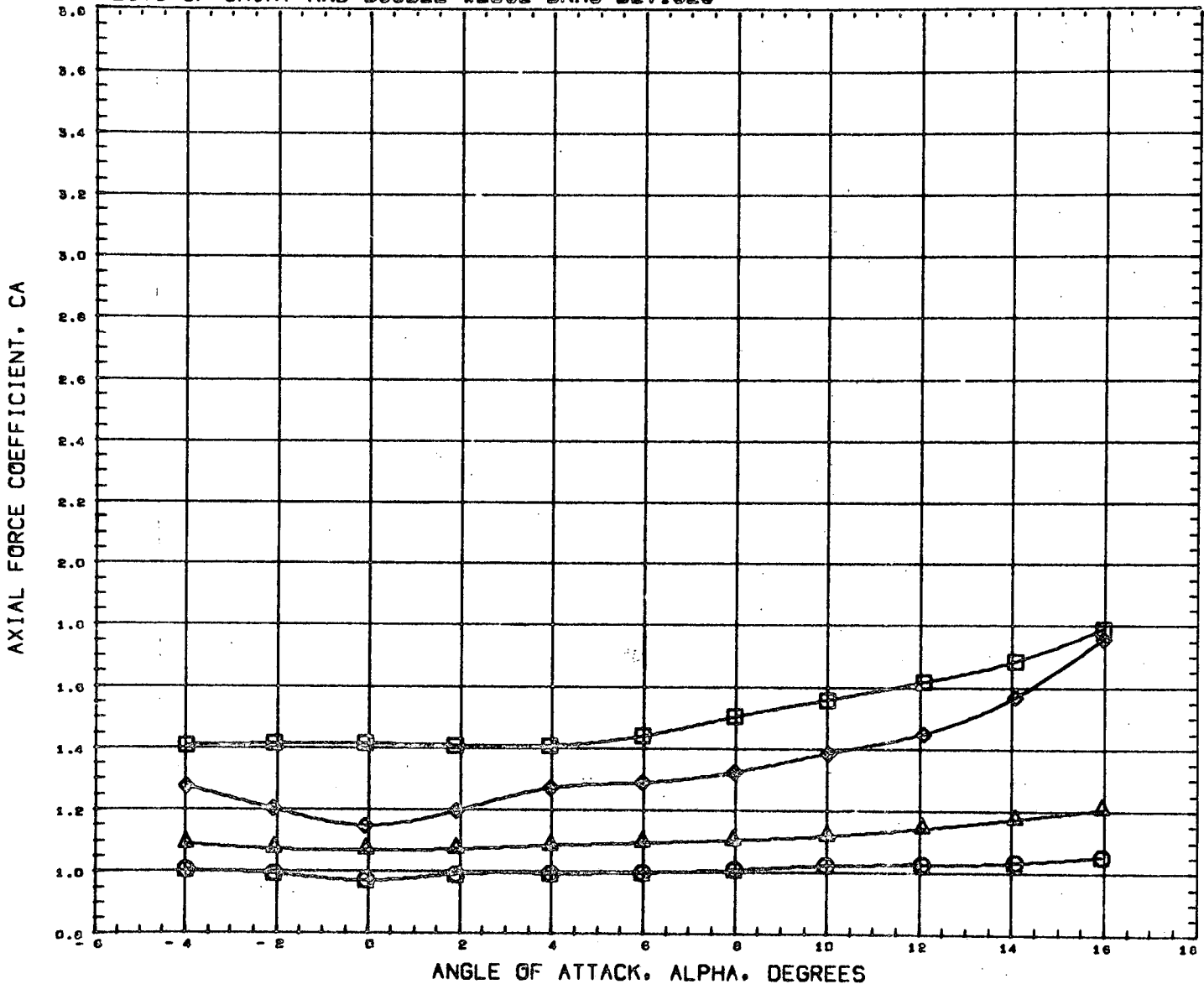


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SR _L F 0.9350 80. IN.
(E5002A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50000)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XHRF 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

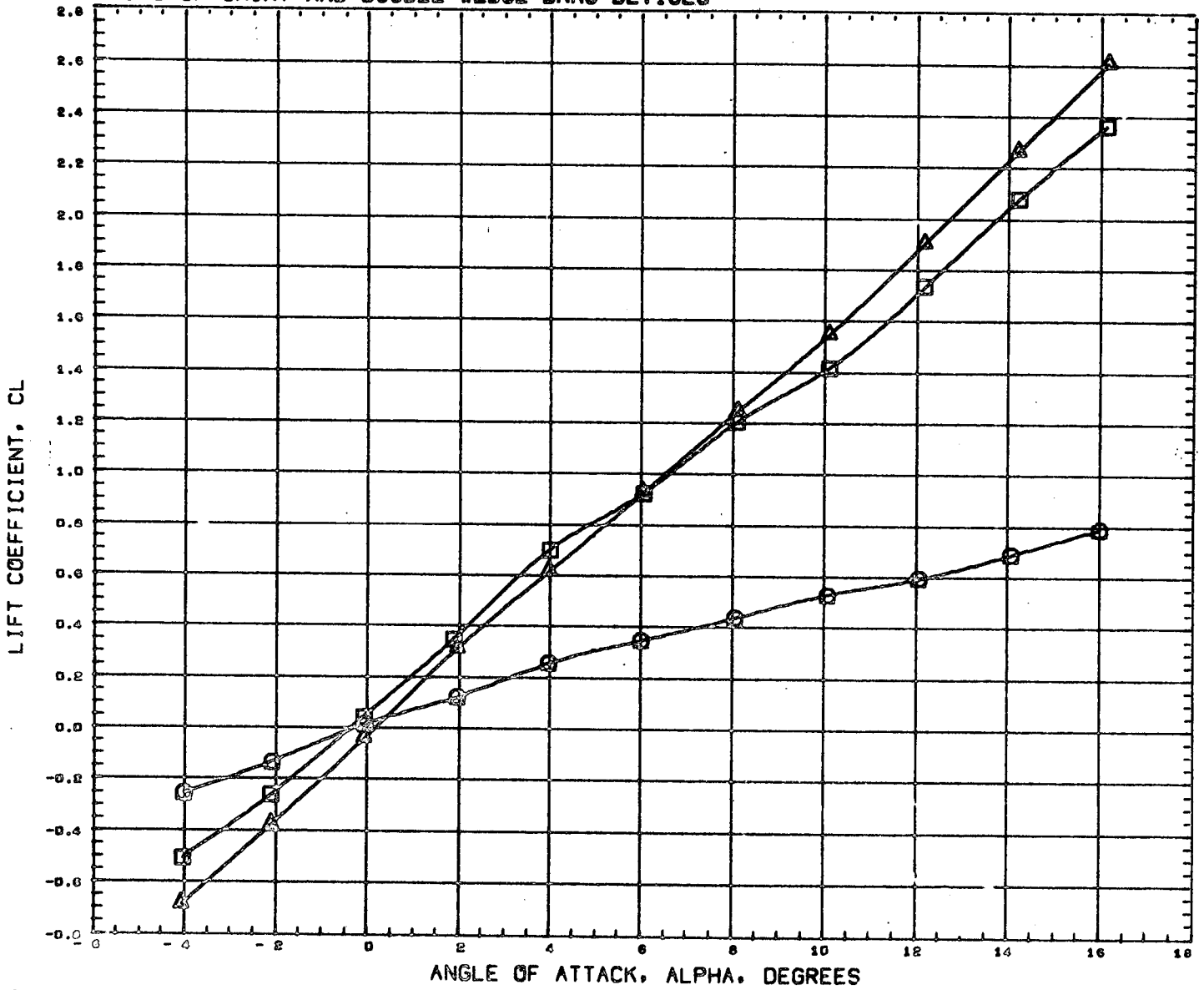
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	R/LAP	REFERENCE INFORMATION
(E9D11A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E9D11A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9D10D)	MSFC 512 GD/C .003366 BOOSTER B34R6SST10	0.000	0.000			BREF 1.0910 INCHES
(D9D09D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	31.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

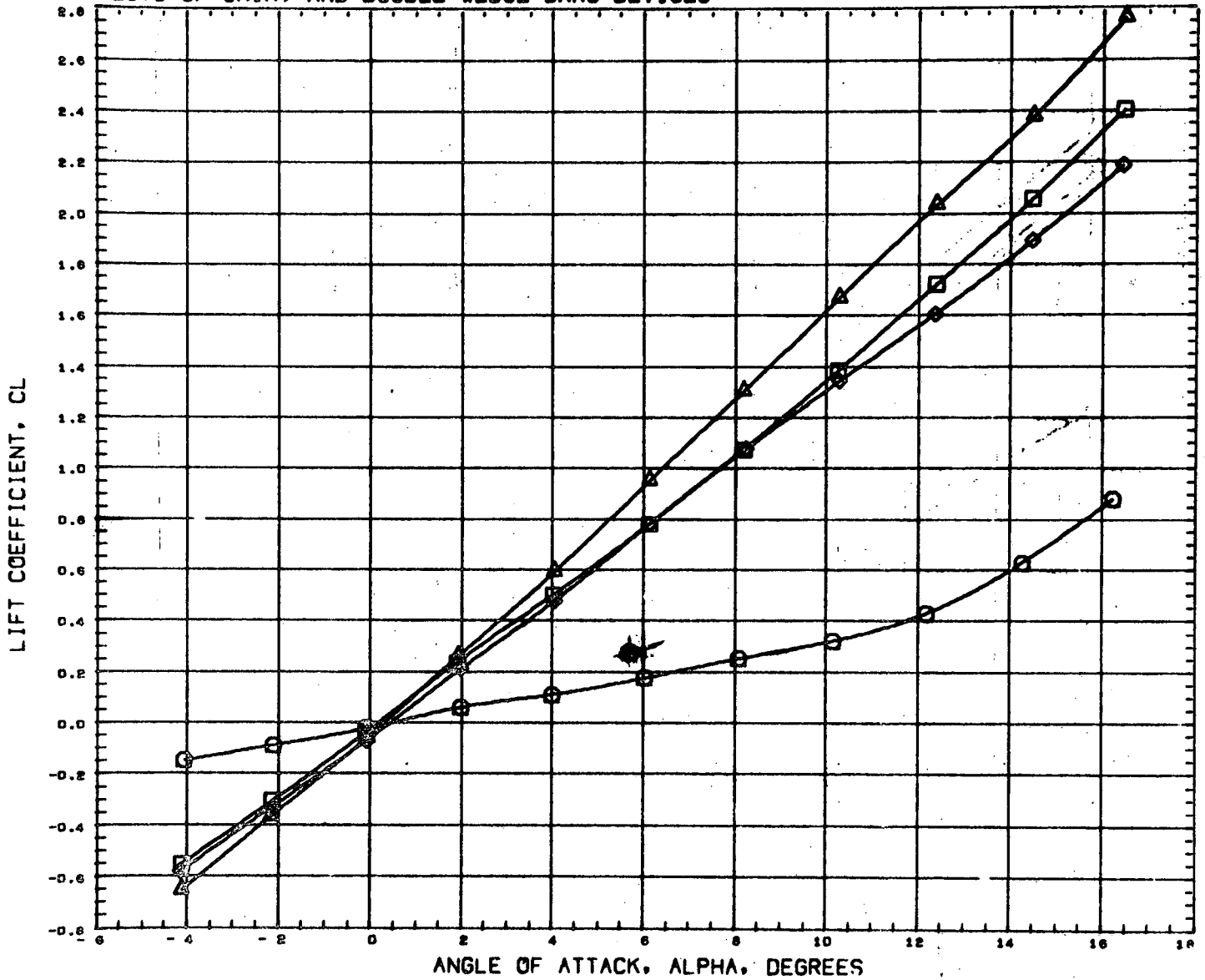
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIWO0	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003900 BOOSTER B94R6	0.000	49.000			SCALE 0.0034
(E5001A)	MSFC 512 GD/C .003900 BOOSTER B94R6T10	0.000	0.000	0.000	0.000	SCALE 0.0034
(D50100)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			
(D50090)	MSFC 512 GD/C .003900 BOOSTER B94R6T17	0.000	0.000	35.000	35.000	SCALE 0.0034

MACH 0.605

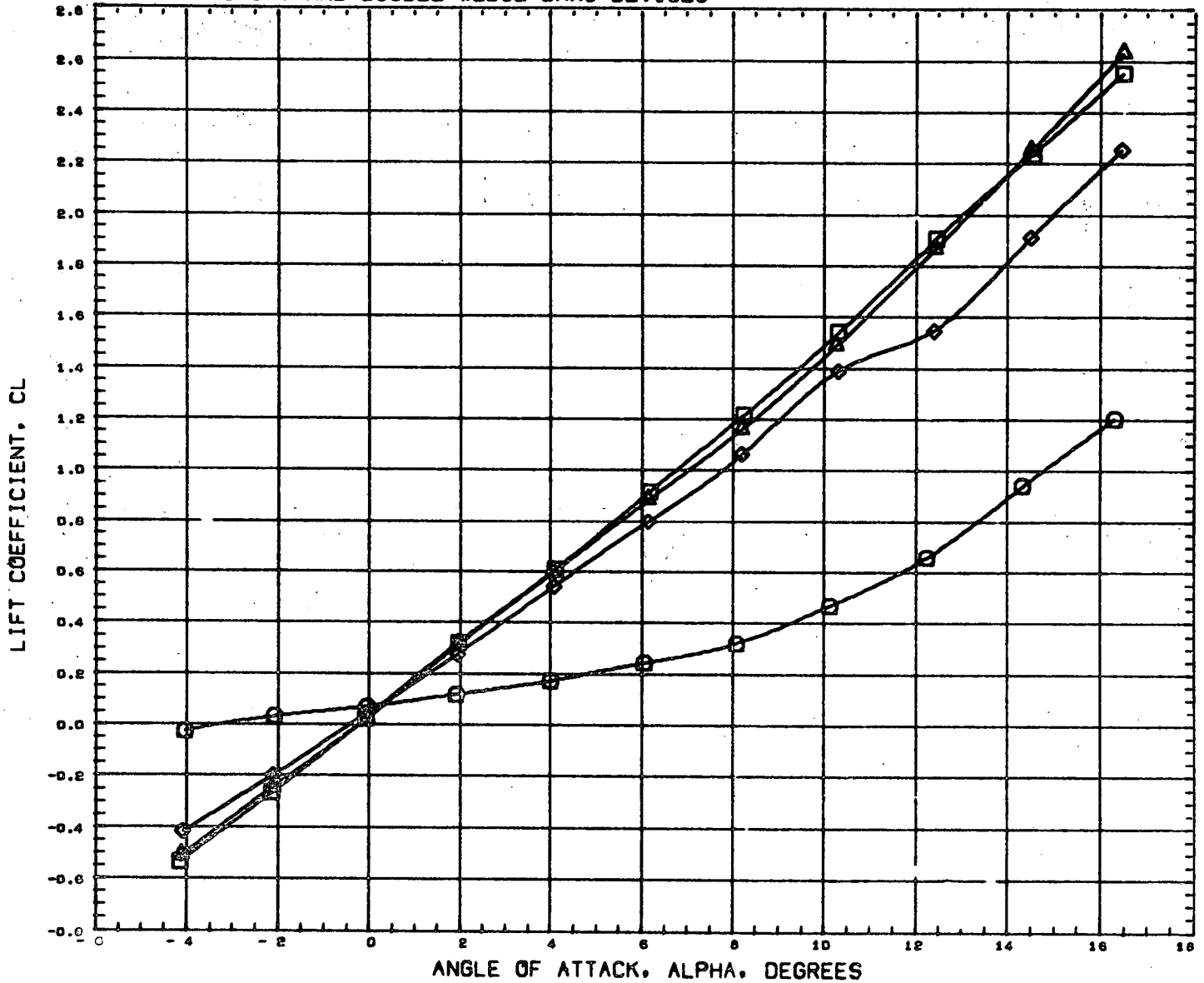
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000			S.EF 0.9350 80. IN.
(E5001A)	MSFC 512 GD/C .003368 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003368 BOOSTER B34R693T10	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003368 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	AMW 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.450

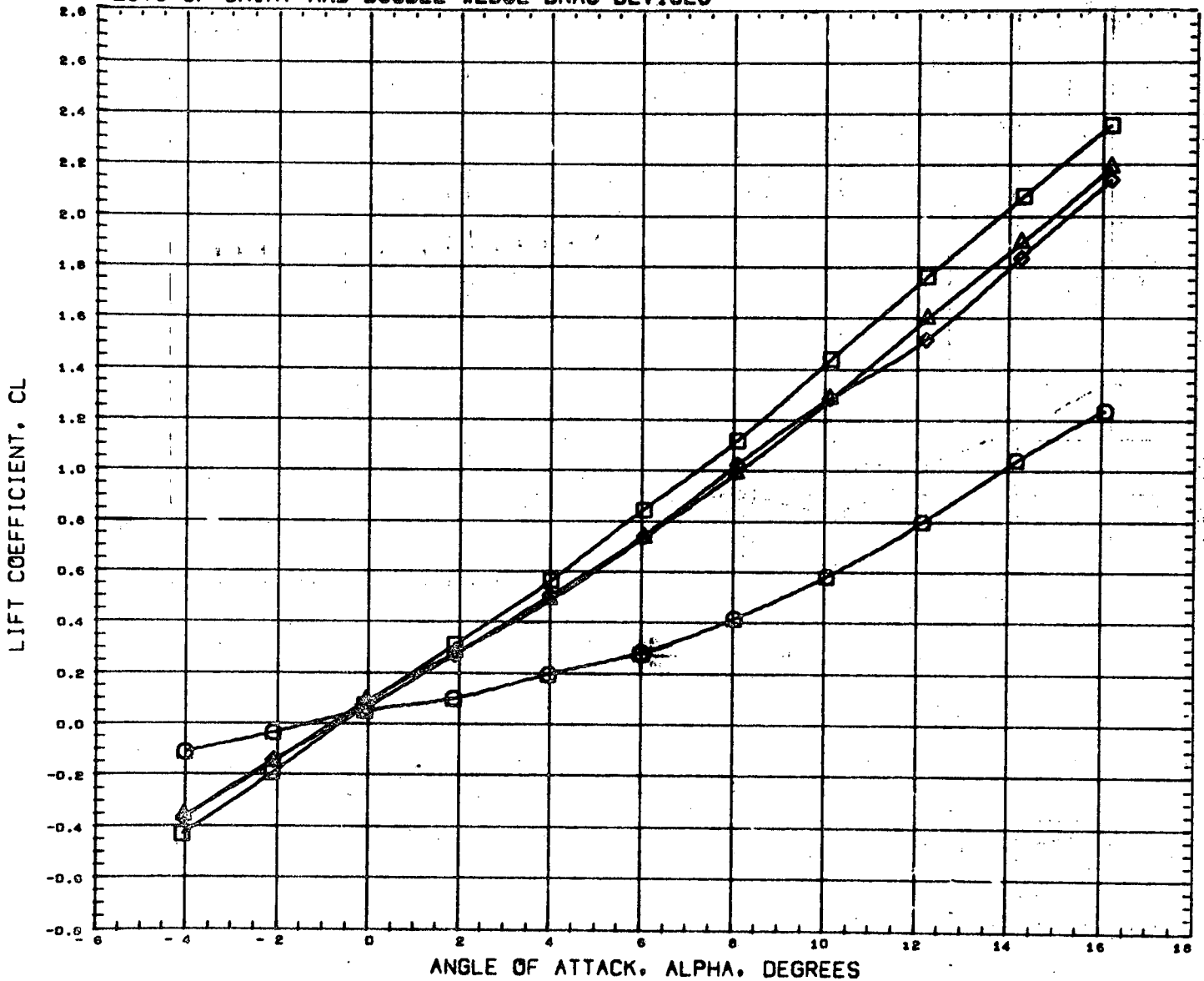
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000	0.000	0.000	SKRT 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	BREF 1.0910 INCHES
(D50080)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

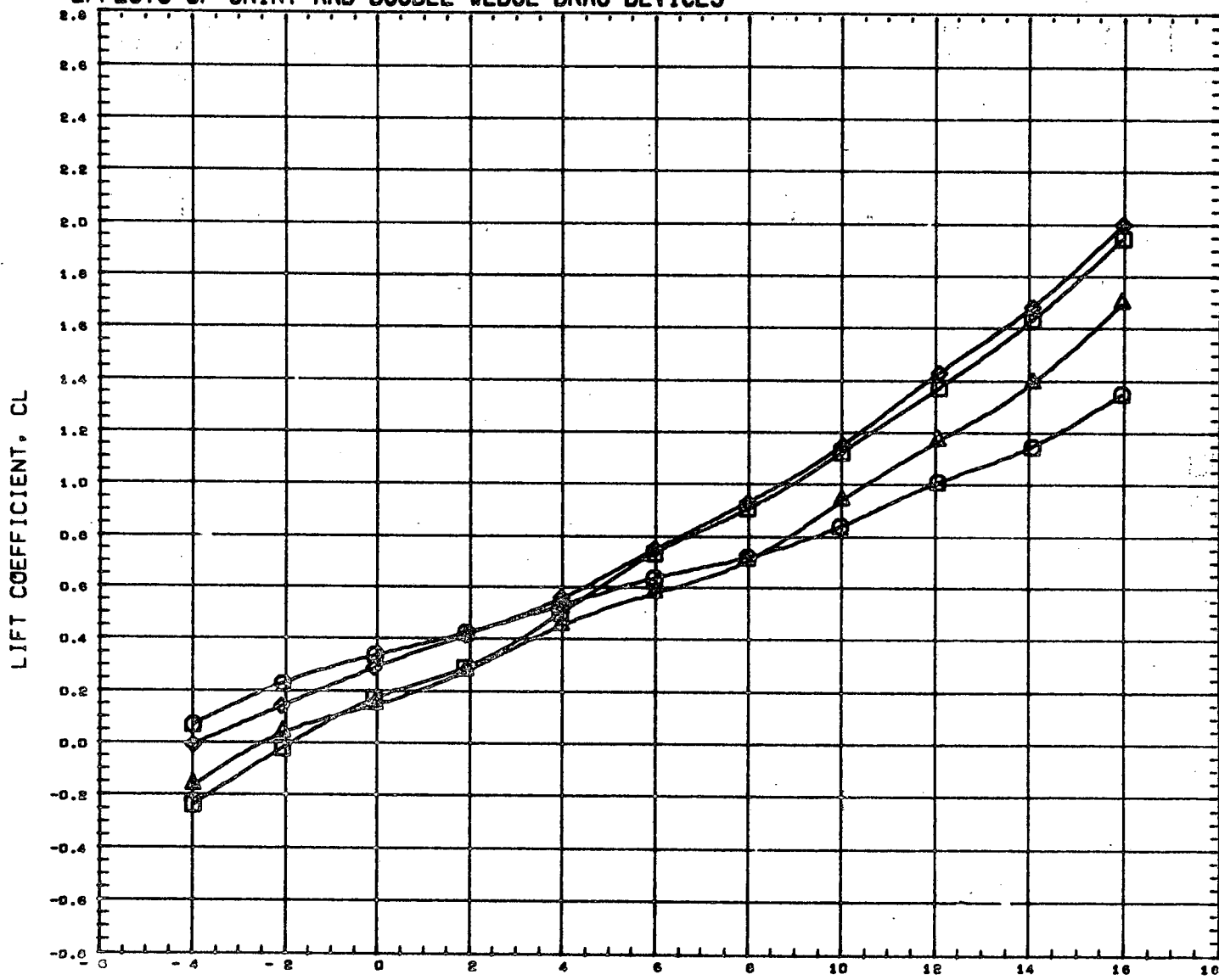
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRLr 0.9350 86. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003366 BOOSTER B34R6S3T10	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

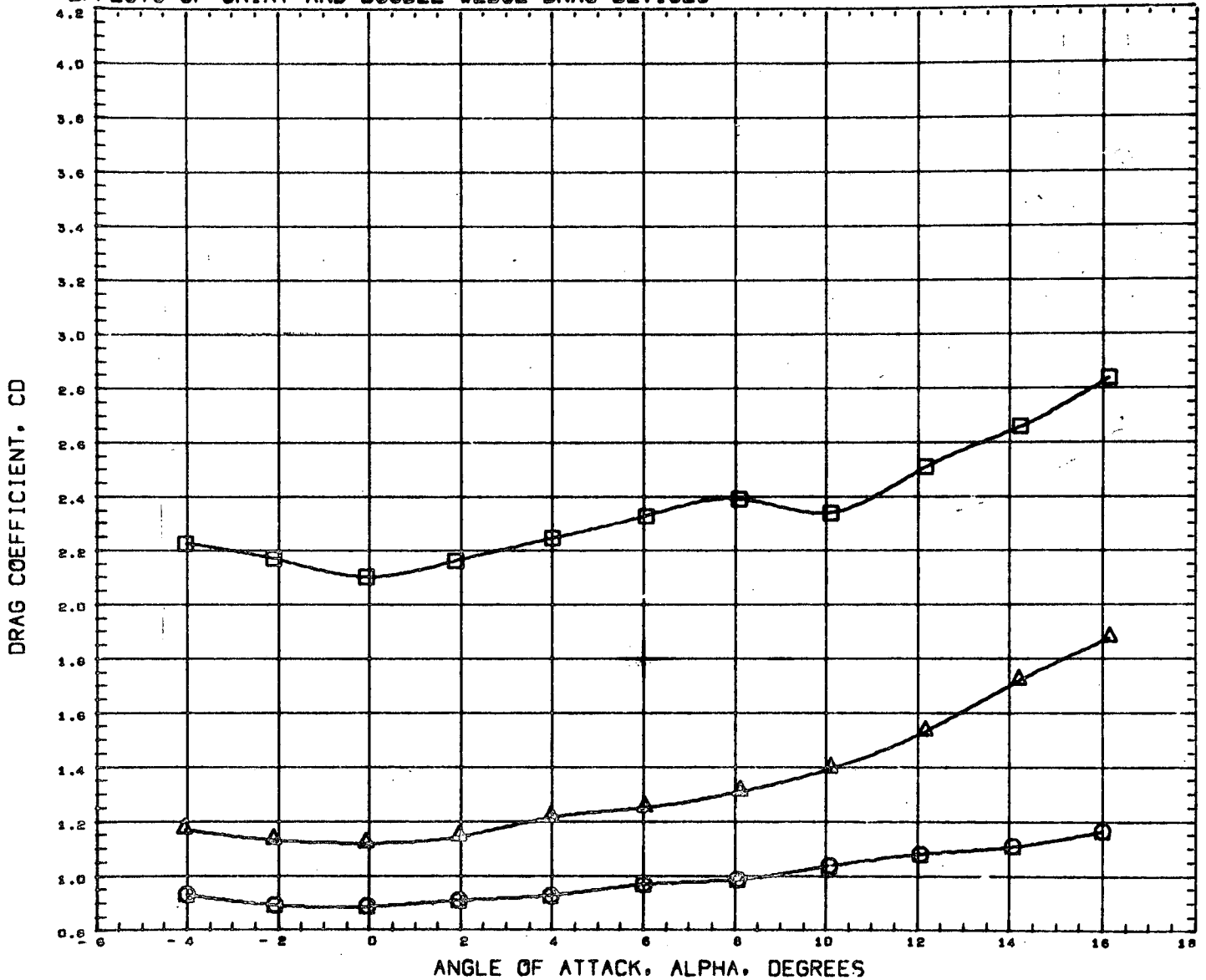
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003360 BOOSTER	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003360 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003360 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50000)	MSFC 512 GD/C .003360 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.859

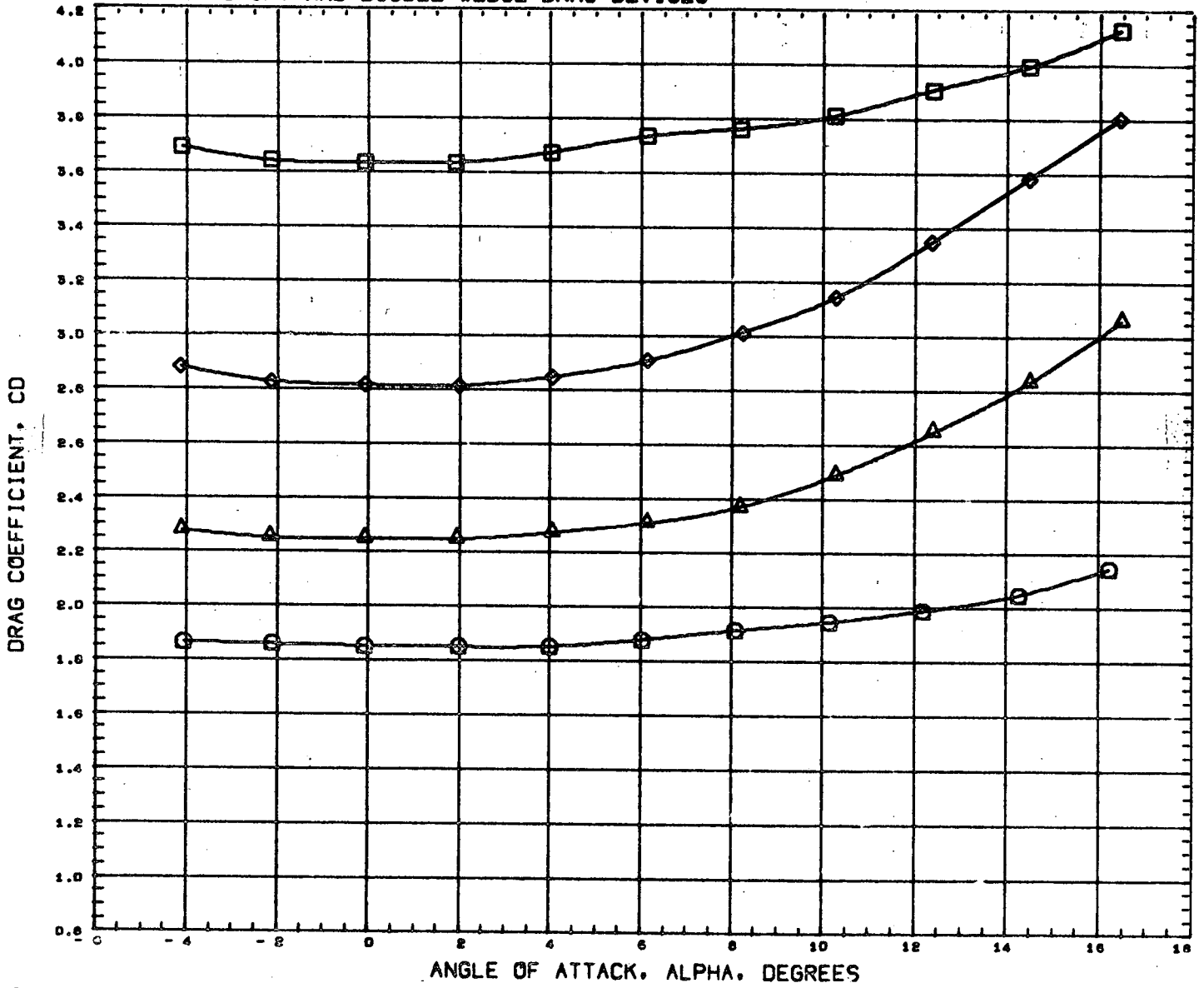
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5D11A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E5D01A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5D10D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D5D09D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

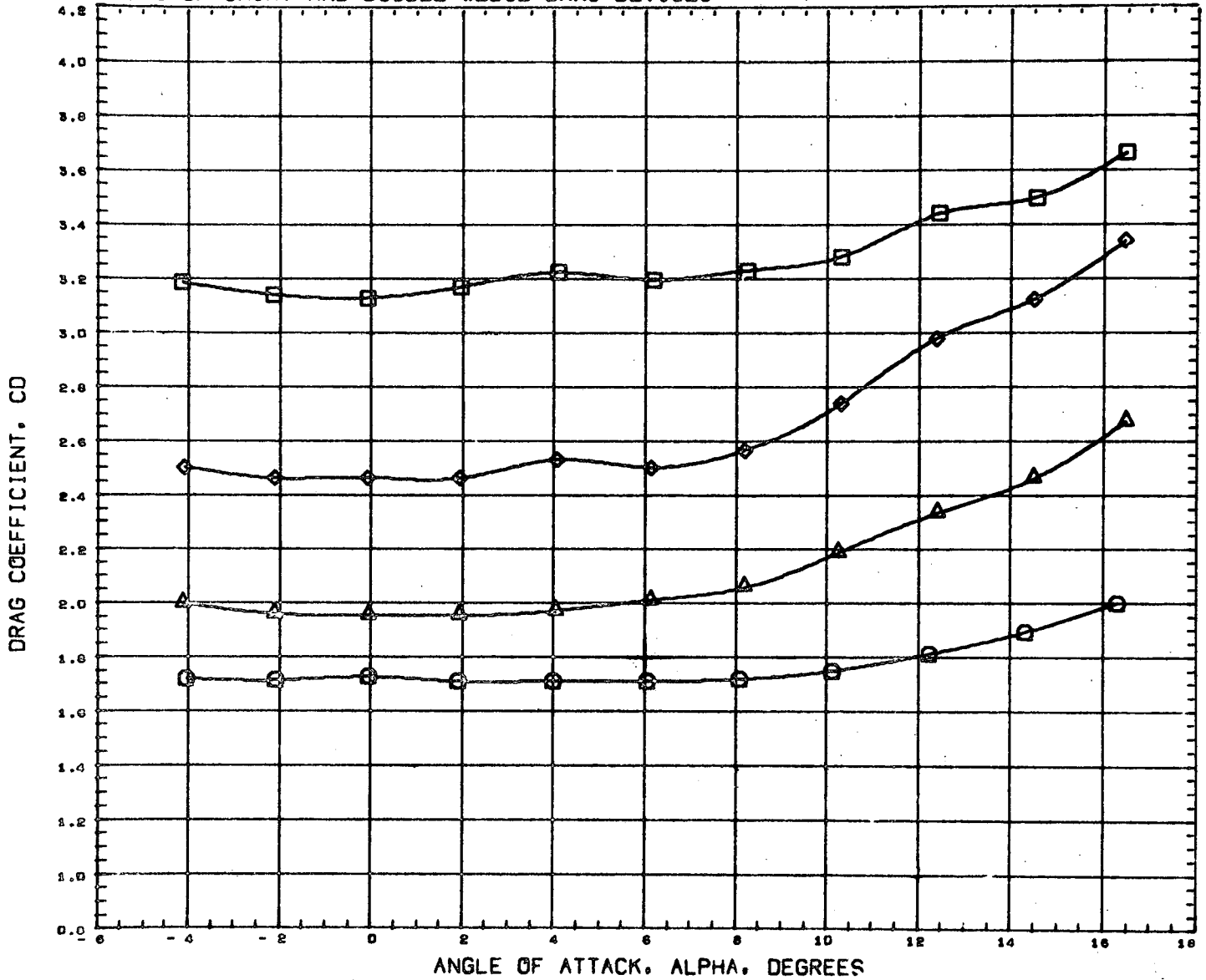
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 CD/C .003366 BOOSTER	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001A)	MSFC 512 CD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 CD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(050090)	MSFC 512 CD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.456

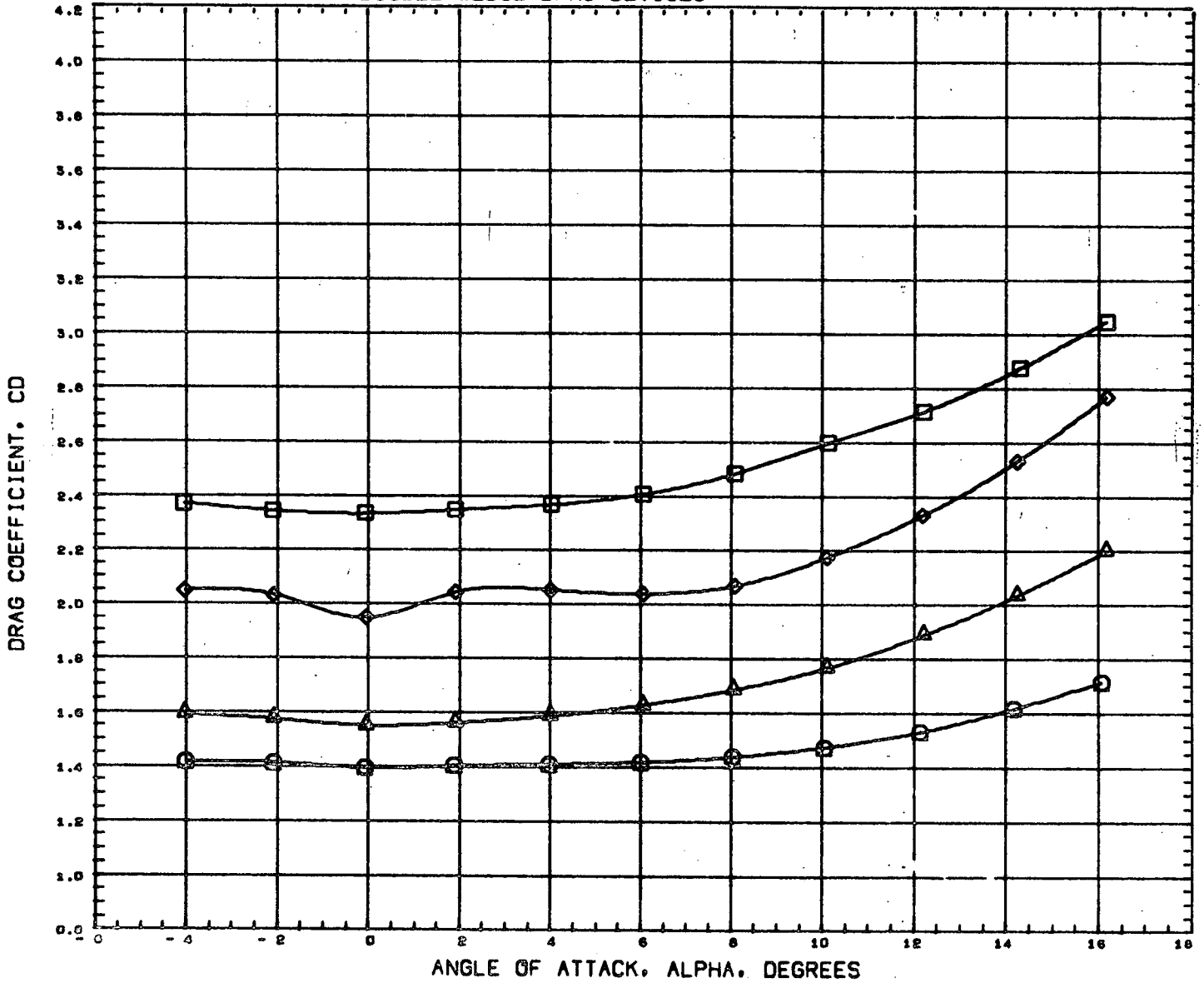
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 30. IN.
(E9001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	MSFC 512 GD/C .003366 BOOSTER B34R693T10	0.000	0.000			BREF 1.0910 INCHES
(D90090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	AMRP 3.7920 INCHES
						VMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.965

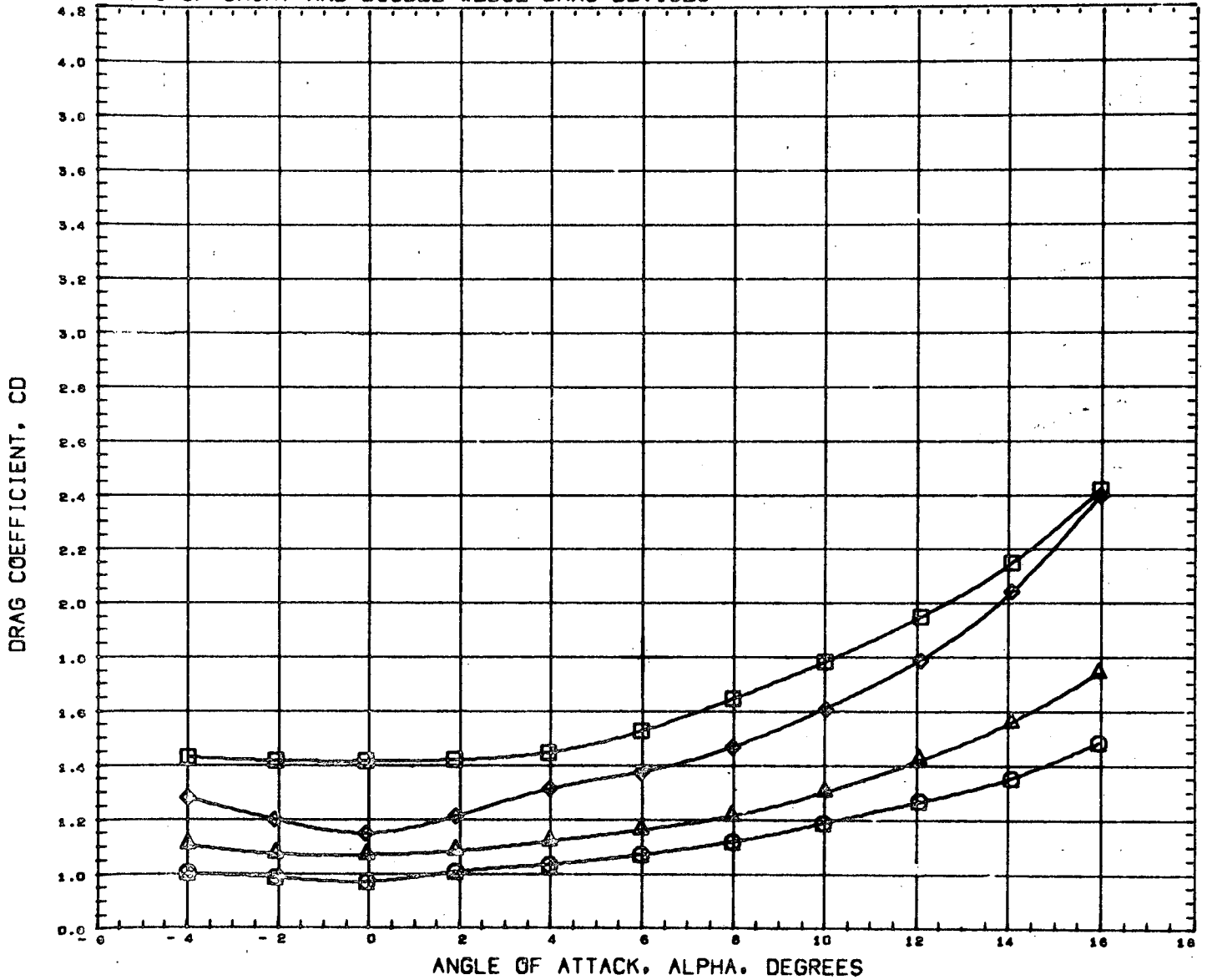
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER	0.000	49.000			SREF 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

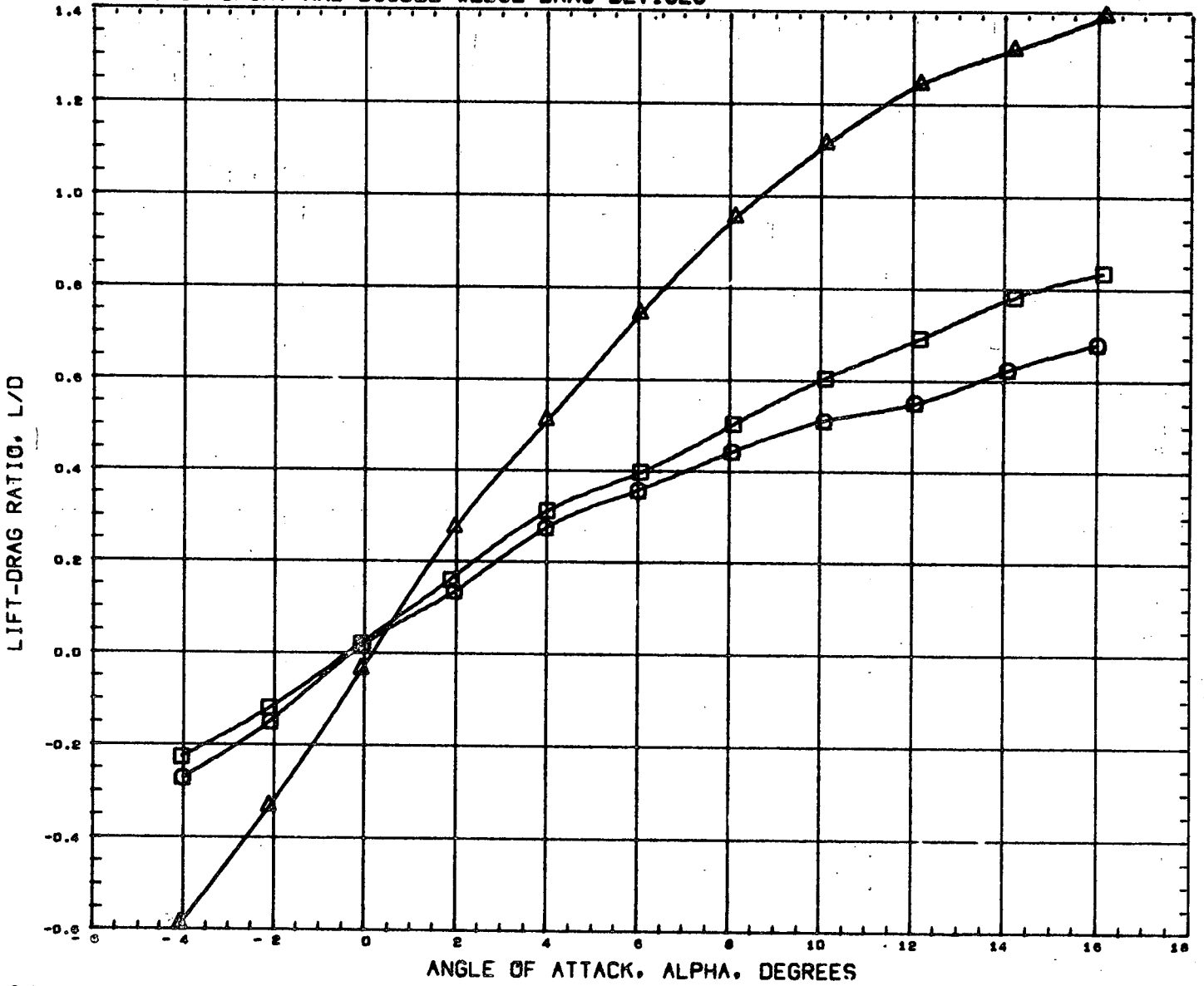
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	□	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SRIF 0.9350 80. IN.
(E9001A)	△	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	◇	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D90090)	○	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 4.956

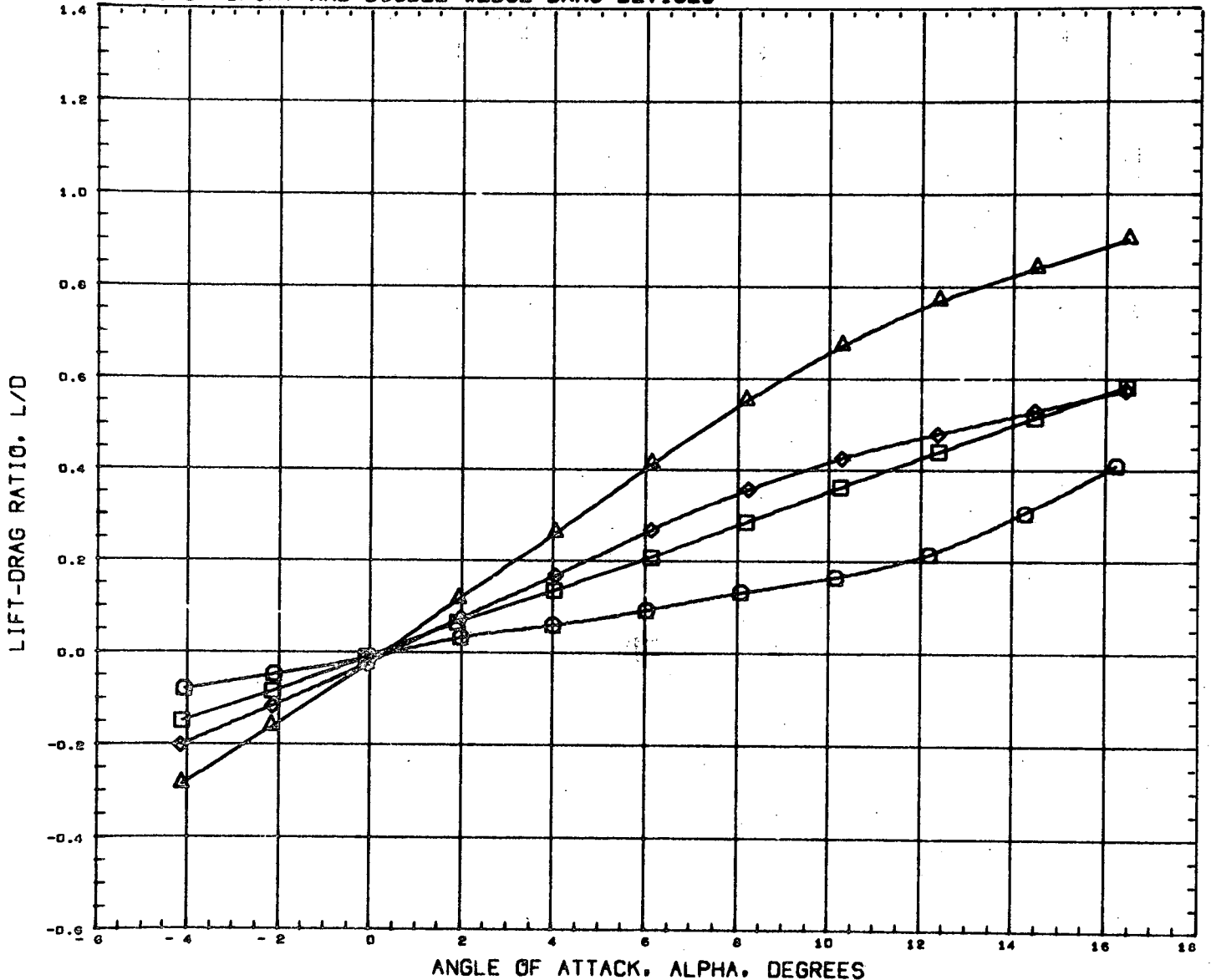
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003306 BOOSTER B34R6	0.000	45.000			ZREF 0.9350 80. IN.
(E5001A)	MSFC 512 GD/C .003368 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

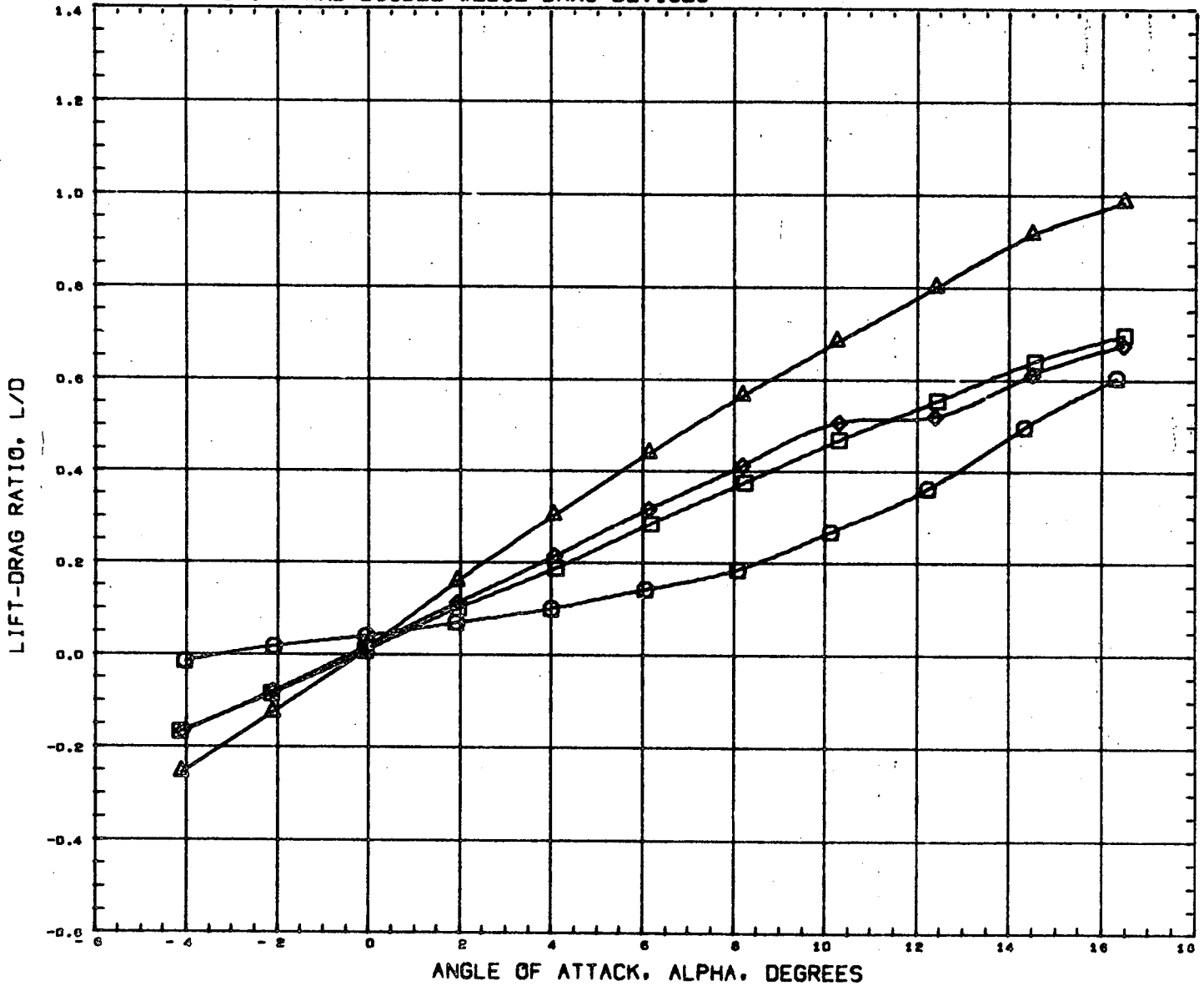
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	MSFC 512 GD/C .003366 BOOSTER B34R6S3T10	0.000	0.000			BREF 1.0910 INCHES
(D90090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

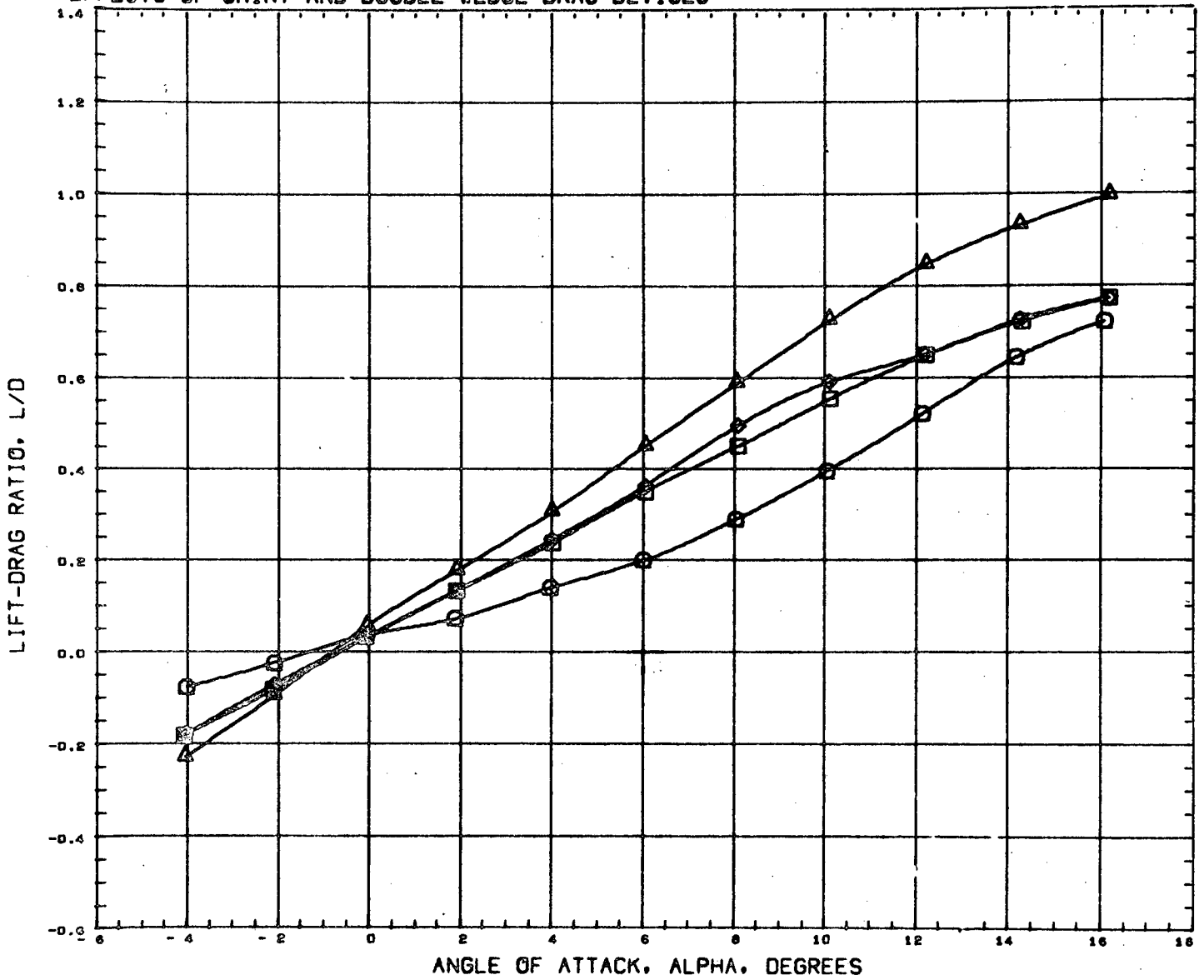
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003300 BOOSTER	0.000	45.000			SREF 0.9350 89. IN.
(E5001A)	MSFC 512 GD/C .003368 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMR ^o 3.7920 INCHES
						YMR ^o 0.0000 INCHES
						ZMR ^o 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

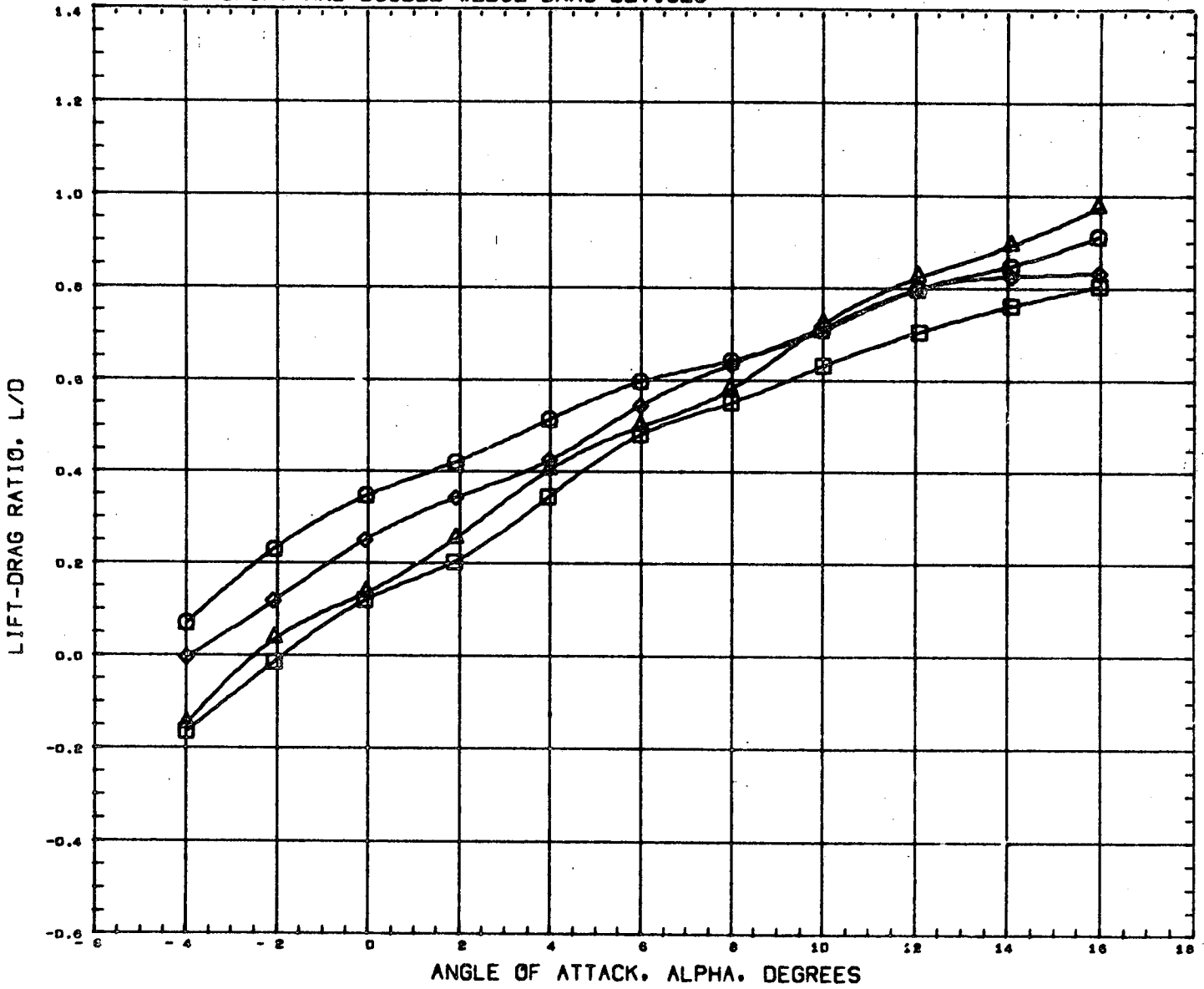
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SFC 0.9350 99. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5010D)	MSFC 512 GD/C .003366 BOOSTER B34R6S3T10	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

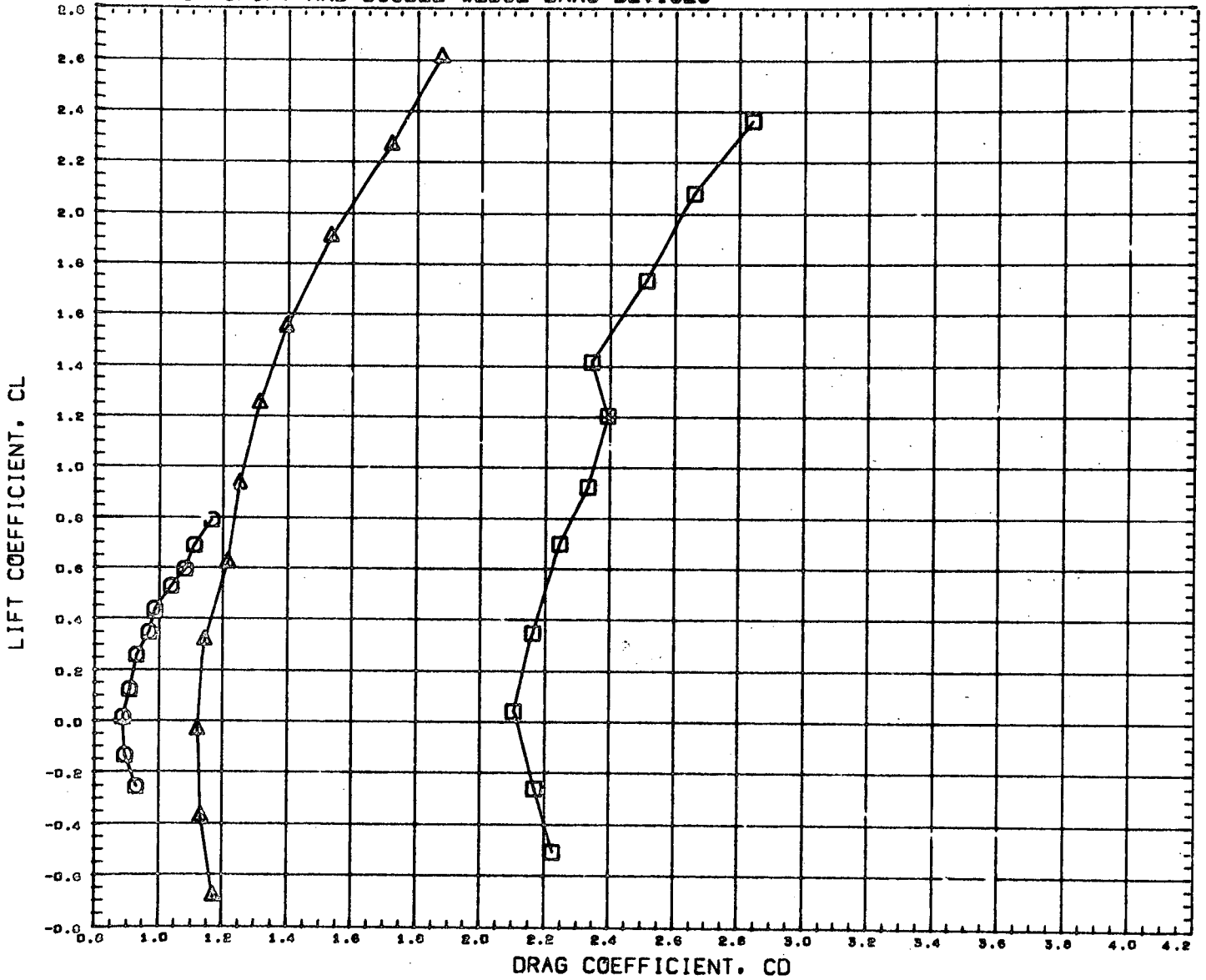
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SRE 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRF 3.7920 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

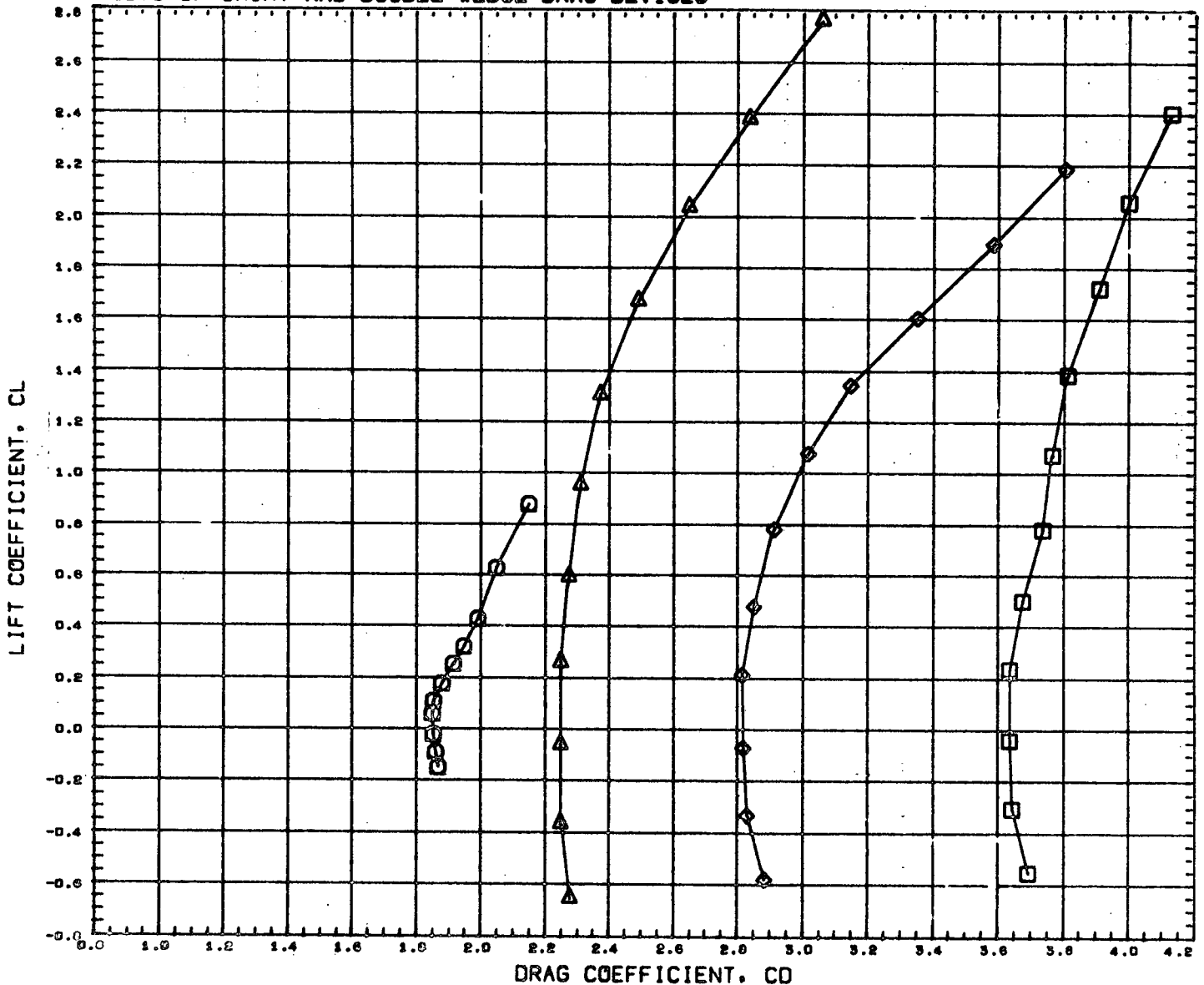
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SCALE 0.0034
(E5001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SK&F 0.9350 SQ. IN.
(D50100)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			LREF 6.2310 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	39.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES

MACH 0.603

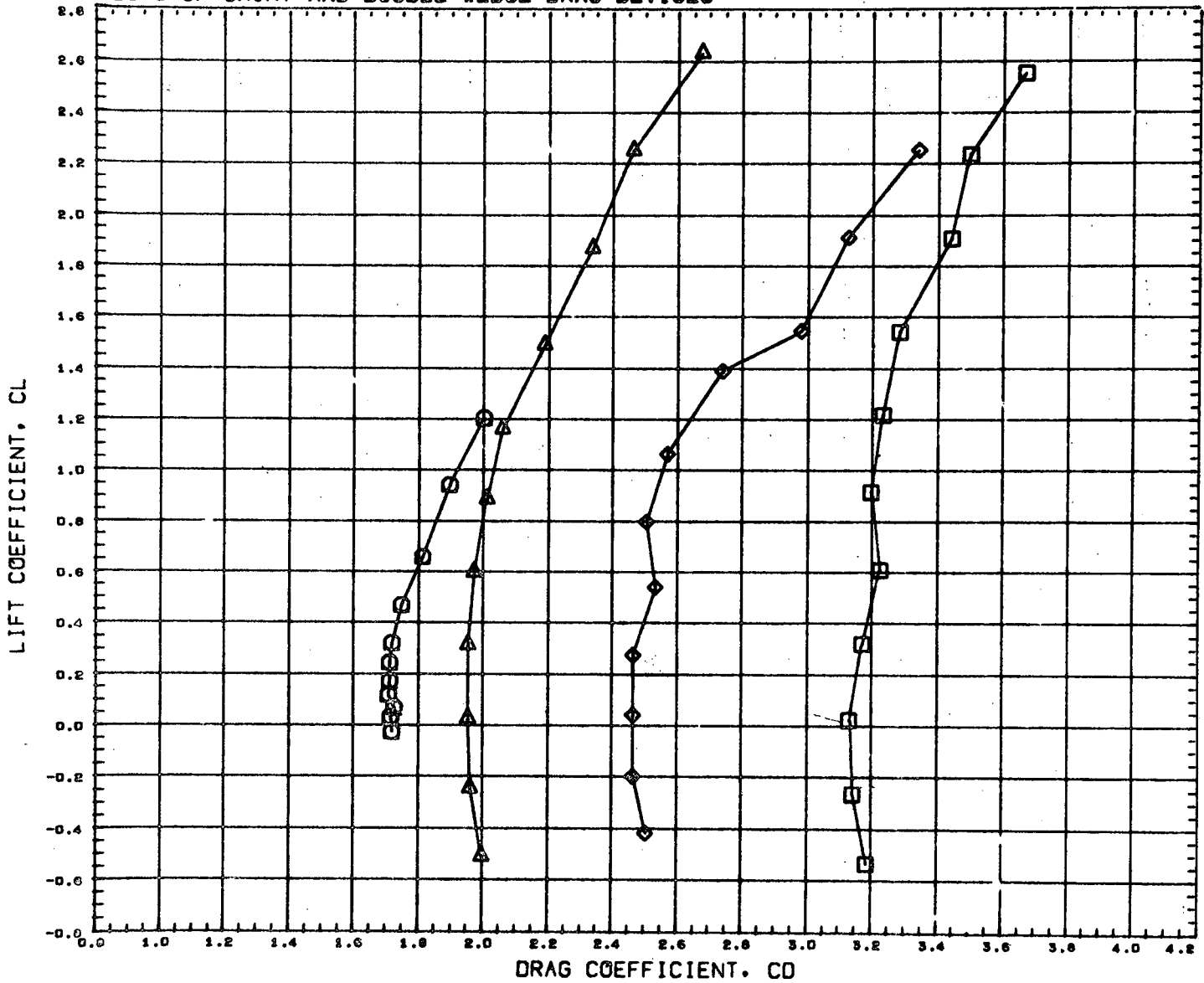
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5011A)	MSFC 512 GD/C .003300 BOOSTER	0.000	45.000			SkEF	0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50100)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF	1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.456

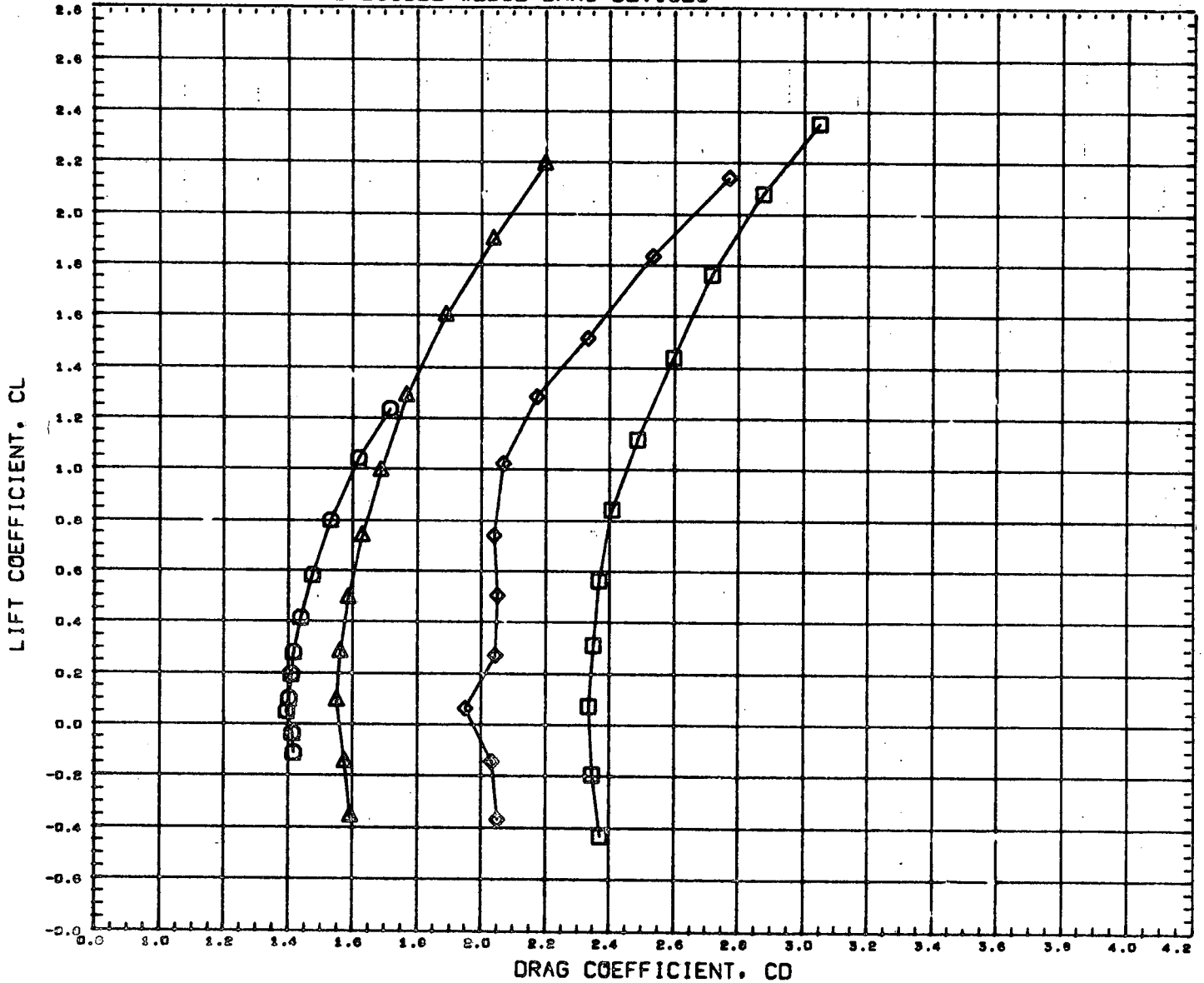
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRUF 0.9350 50. IN.
(E9001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003366 BOOSTER B34R6S3T10	0.000	0.000			BREF 1.0010 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.966

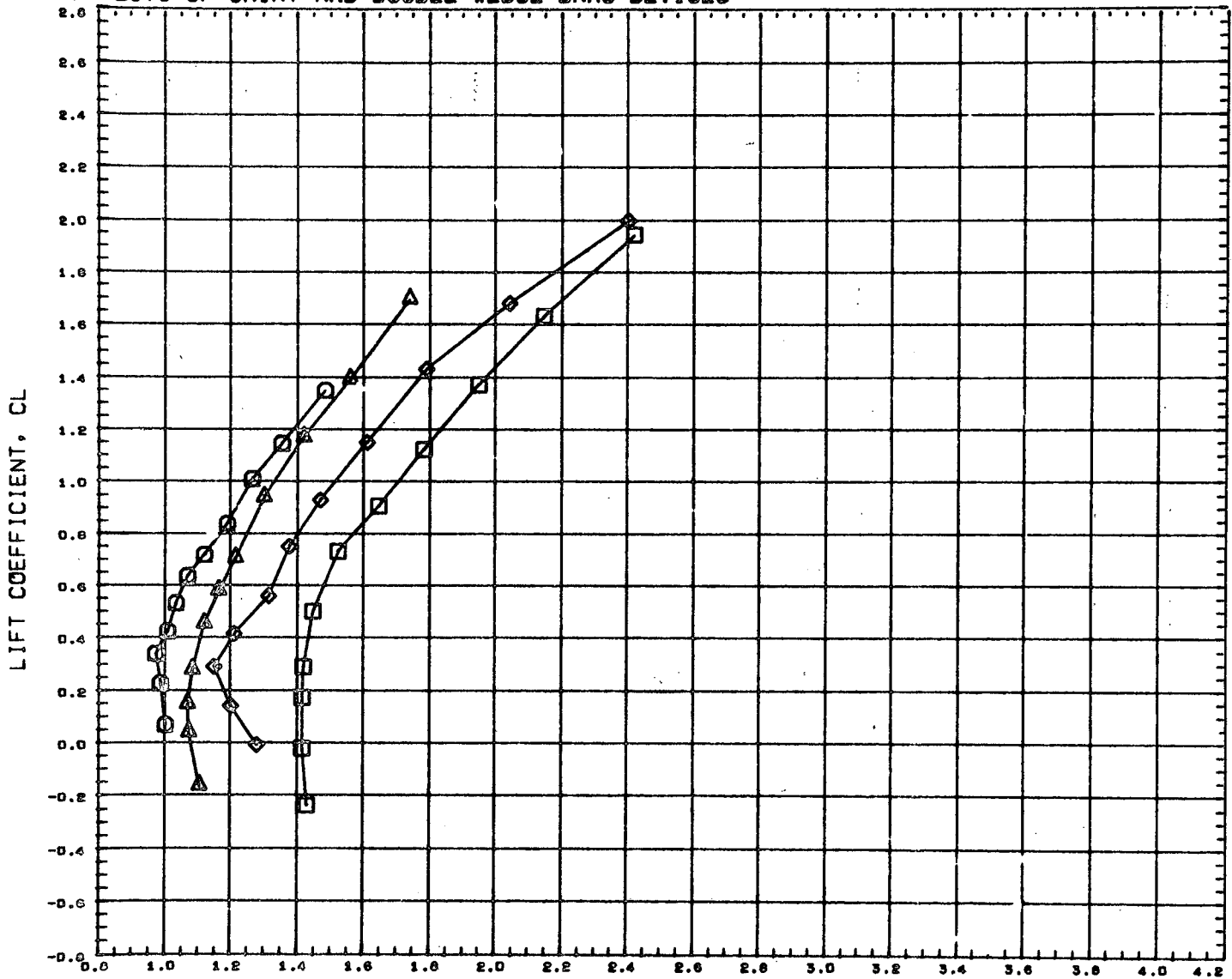
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	NSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SRCF 0.9350 88.1N.
(E5001A)	NSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	NSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50090)	NSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

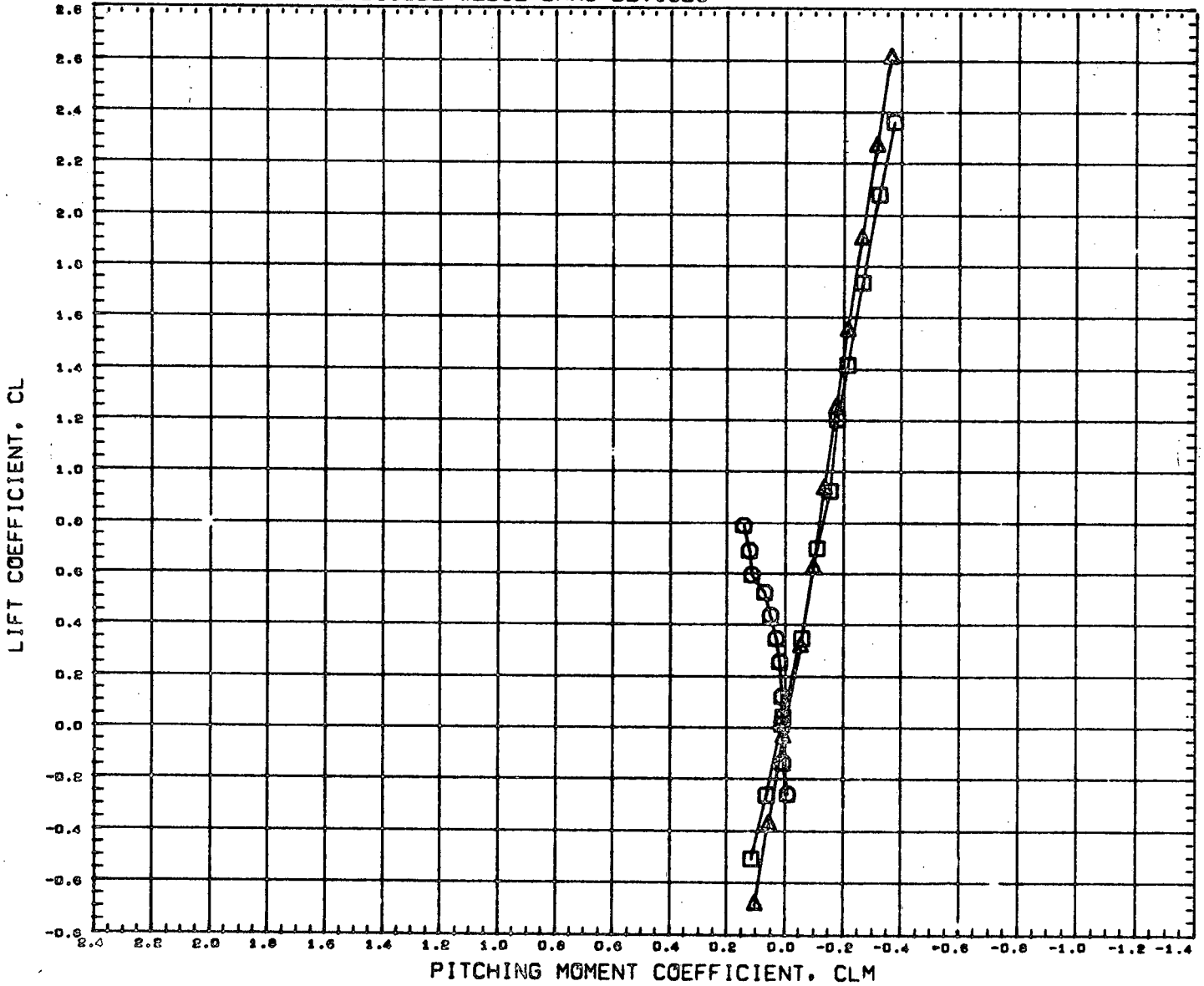
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5013A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SR_LF 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5010D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D5009D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0054

MACH 4.058

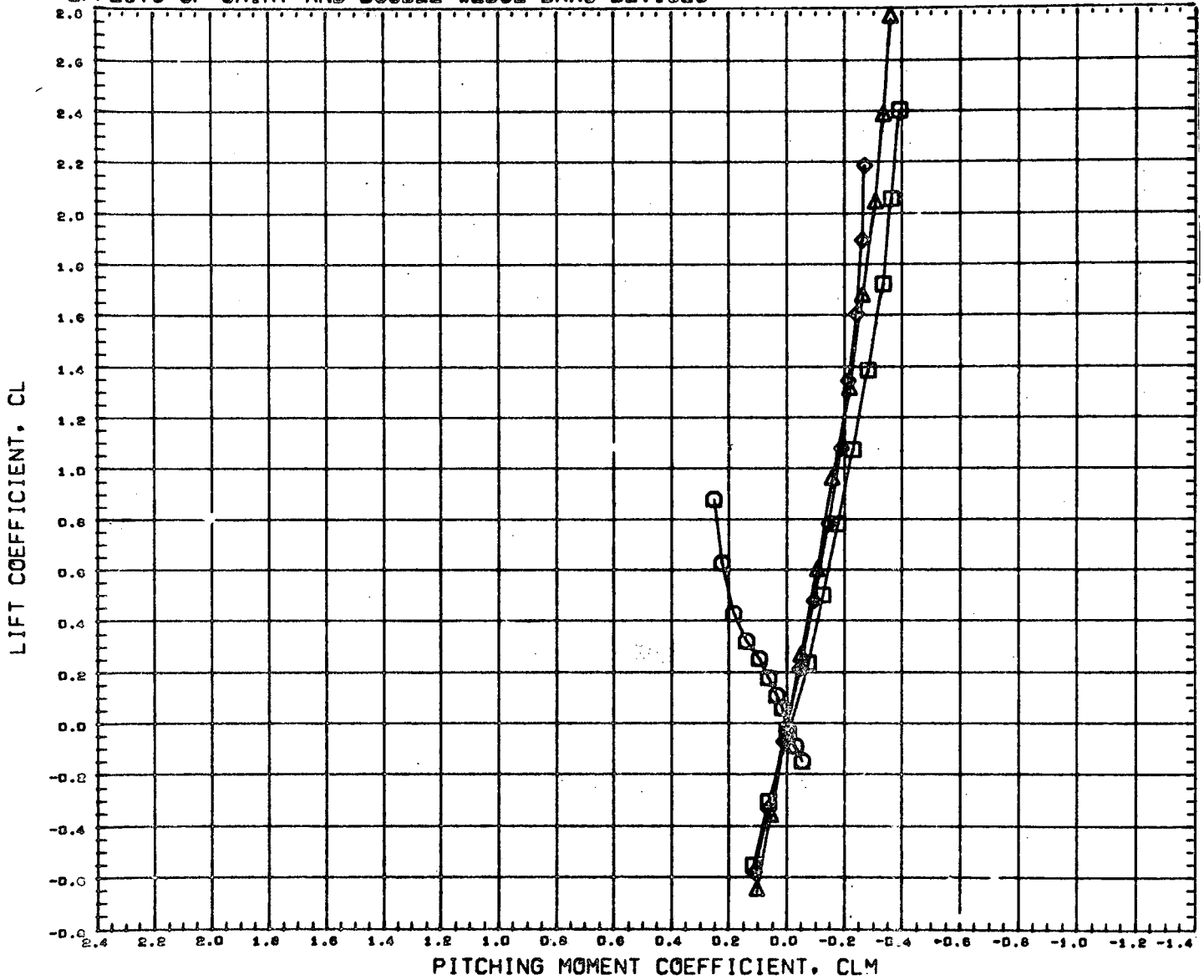
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 912 GD/C .003306 BOOSTER D94R6	0.000	45.000			SR_LF 0.9350 80. IN.
(E9001A)	MSFC 912 GD/C .003306 BOOSTER B94R6T10	0.000	0.000	0.000	0.000	LREF 6.2510 INCHES
(D90100)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D90080)	MSFC 912 GD/C .003366 BOOSTER B94R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

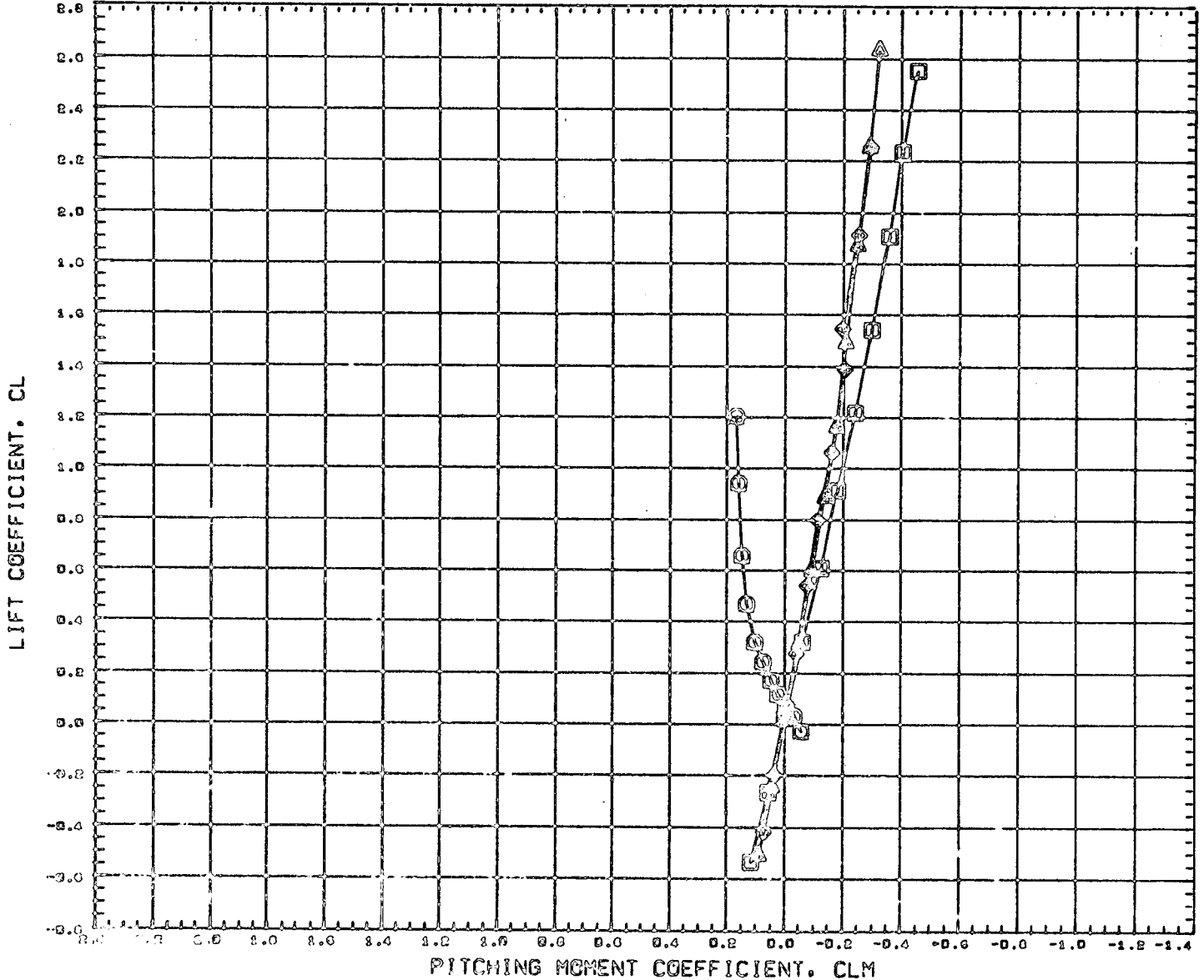
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011A)	MSFC 512 GD/C .003366 BOOSTER	0.000	45.000			SKLF 0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50100)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

HACH 1.490

EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES

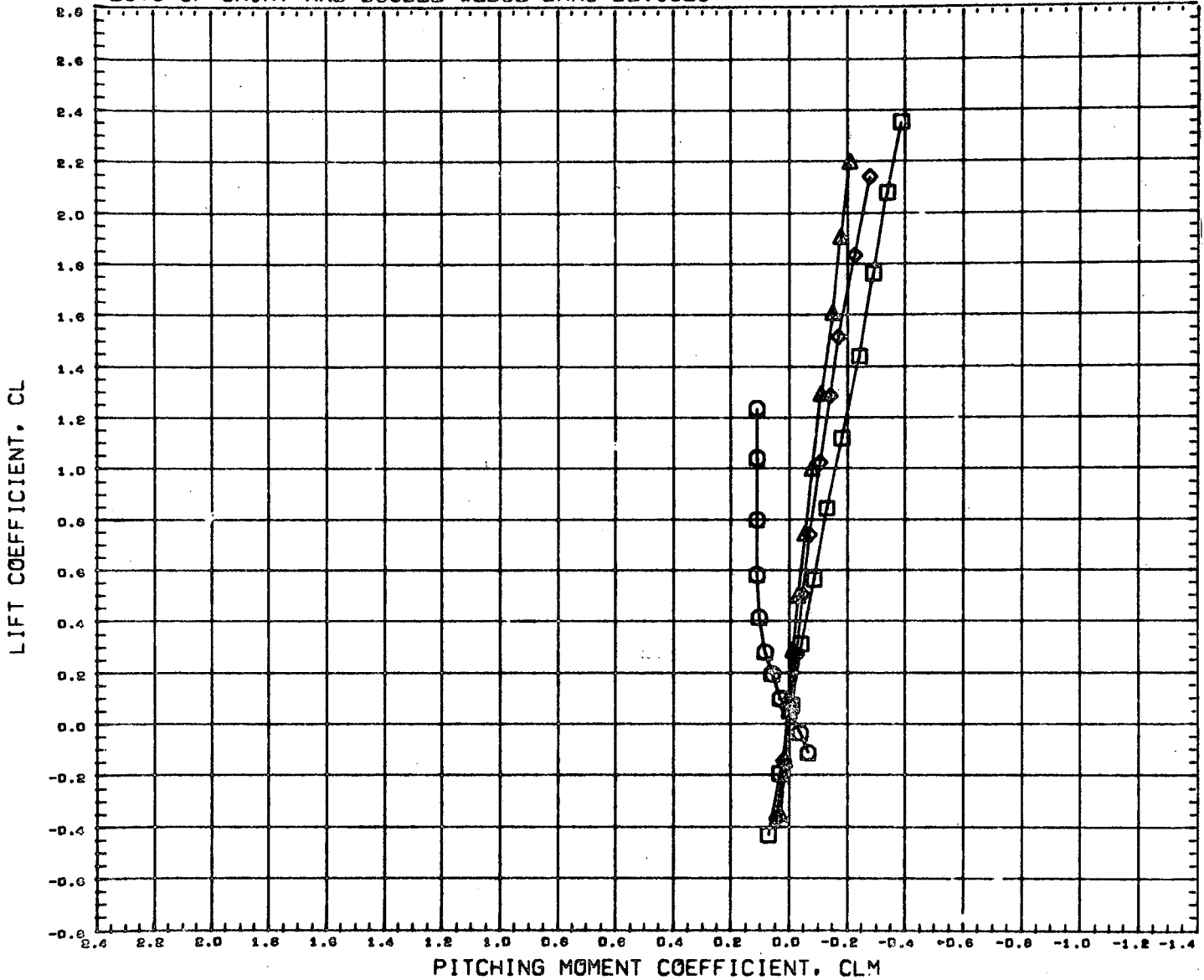


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	CITA	PHIN00	LFLAP	RFLAP	REFERENCE INFORMATION
(E0011A)	MSFC 912 6D/C .009936 DOOBTEN	0.000	49.000			SREF 0.9350 SQ. IN.
(E0012A)	MSFC 912 6D/C .009936 DOOBTEN	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D00100)	MSFC 912 6D/C .009936 DOOBTEN	0.000	0.000			BREF 1.0910 INCHES
(D00300)	MSFC 912 6D/C .009936 DOOBTEN	0.000	0.000	95.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.006

EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES

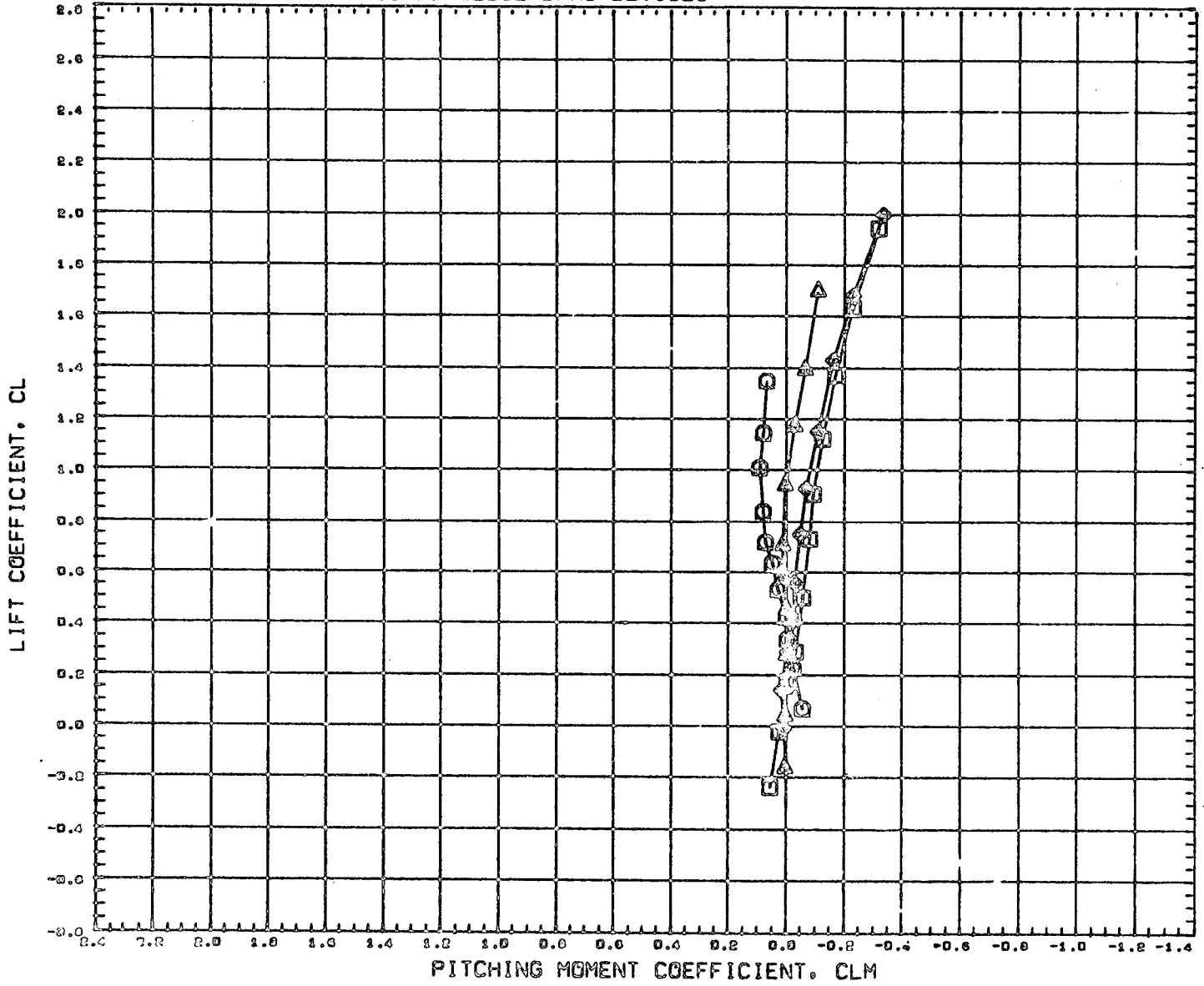


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	B34R6	BETA	PHIMOD	LFLAP	RF-LAP	REFERENCE INFORMATION
(E9D11A)	M8FC 512 GD/C .003366 BOOSTER	B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E9D11A)	M8FC 512 GD/C .003366 BOOSTER	B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5D10D)	M8FC 512 GD/C .003366 BOOSTER	B34R6S3T10	0.000	0.000			BREF 1.0910 INCHES
(D5D09D)	M8FC 512 GD/C .003366 BOOSTER	B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 2.740

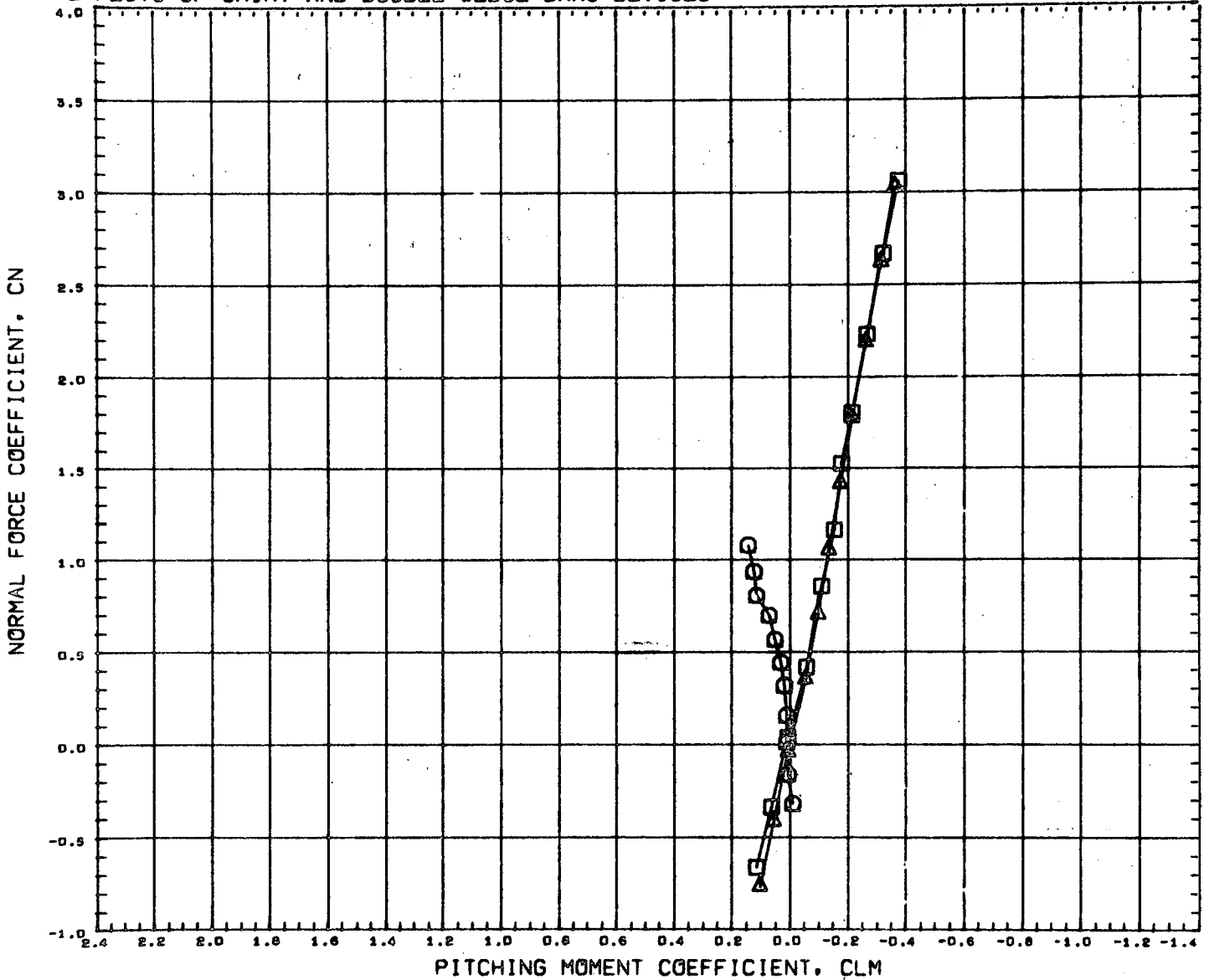
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHI MOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	HSFC 912 6D/C .003966 BOOBYER	0.000	45.000			SREF 0.9390 SQ. IN.
(E9001A)	HSFC 912 6D/C .003966 BOOBYER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	HSFC 912 6D/C .003966 BOOBYER	0.000	0.000			BREF 1.0910 INCHES
(D90090)	HSFC 912 6D/C .003966 BOOBYER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0094

NACN 4.990

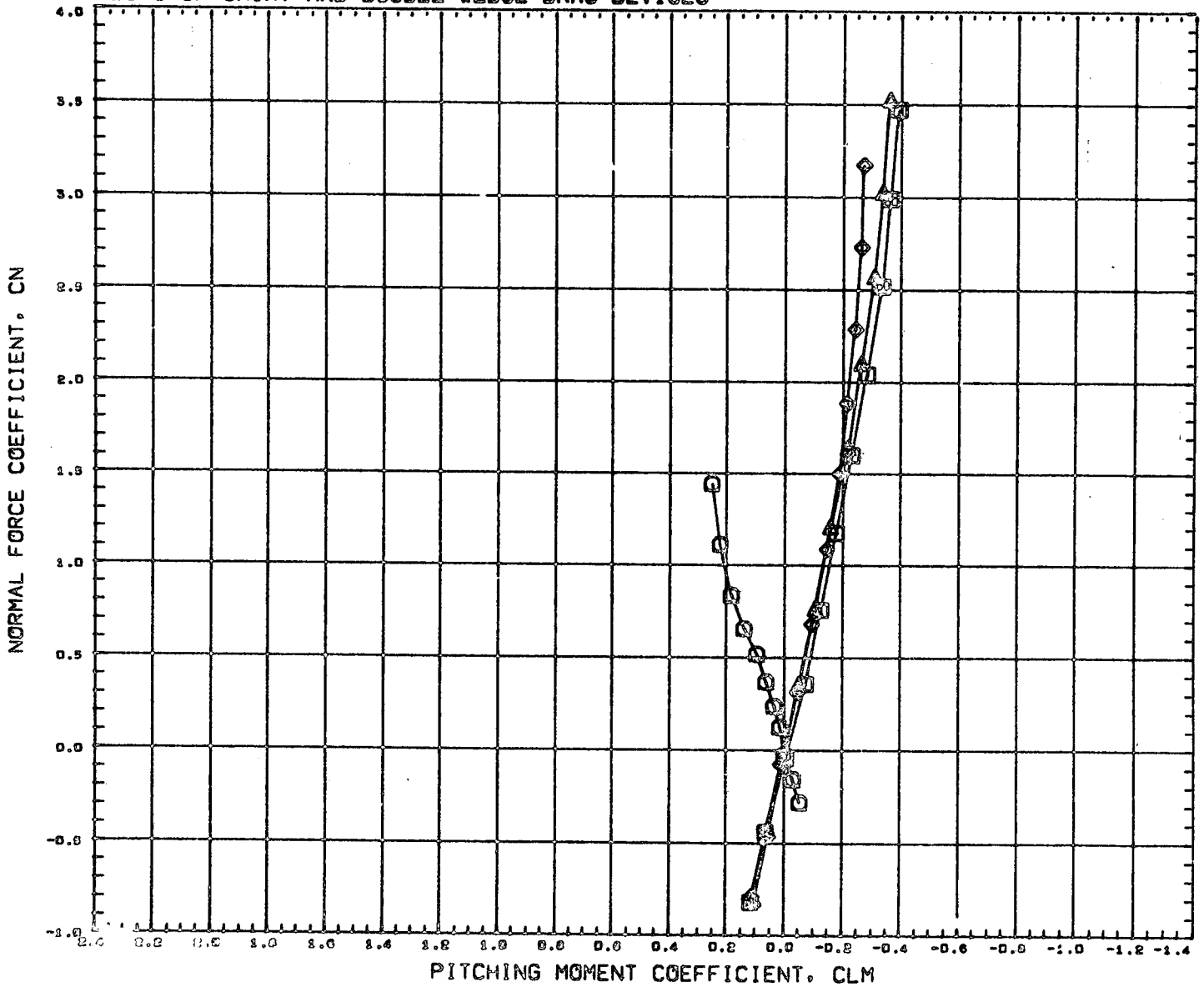
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E9001A)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000			BREF 1.0910 INCHES
(D90090)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	35.000	36.000	XMR 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

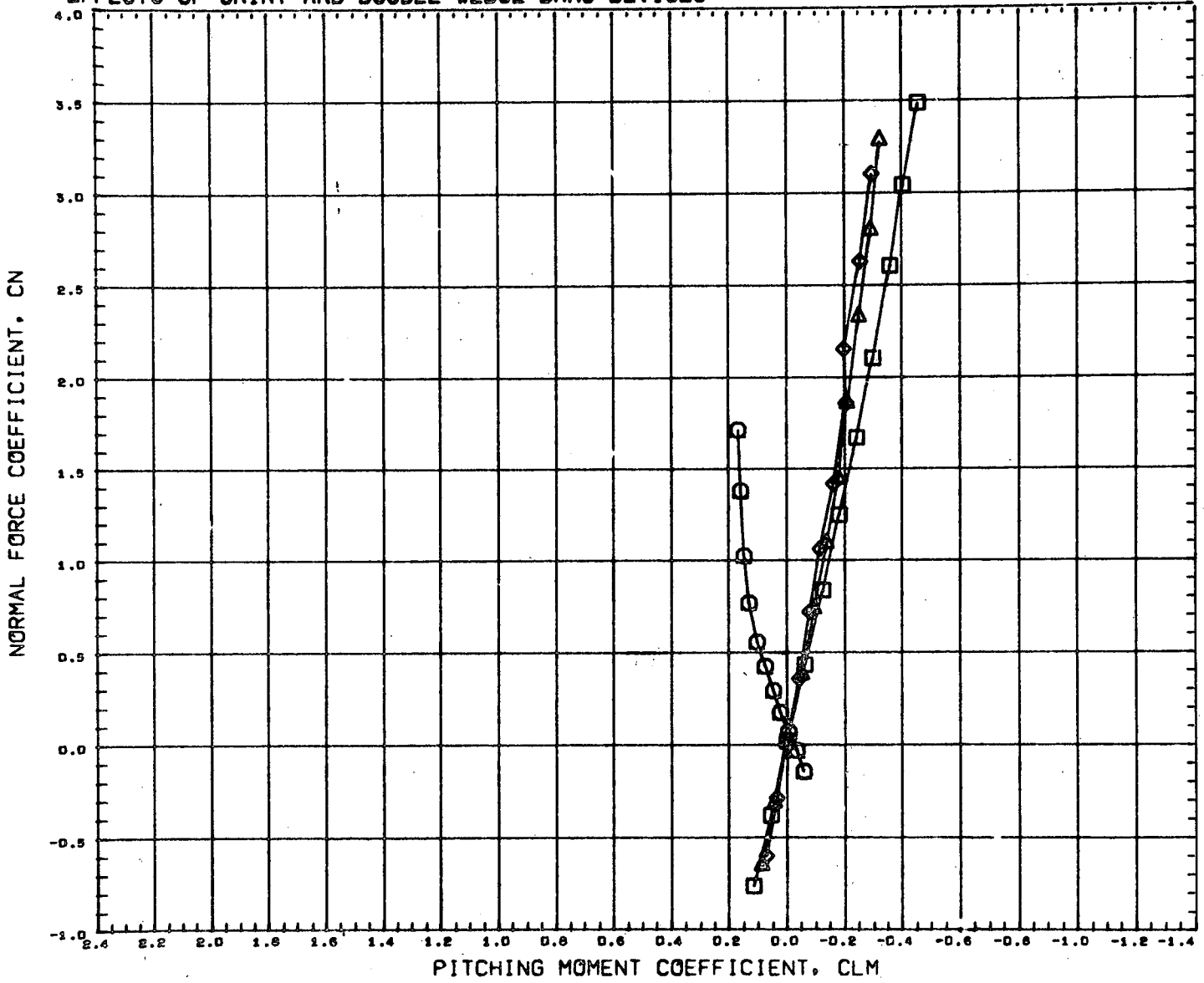
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .003300 BOOSTER	0.000	49.000			SREF 0.9350 SQ. IN.
(E9001A)	MSFC 512 GD/C .003300 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	MSFC 512 GD/C .003300 BOOSTER	0.000	0.000			BREF 1.0910 INCHES
(D90000)	MSFC 512 GD/C .003300 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

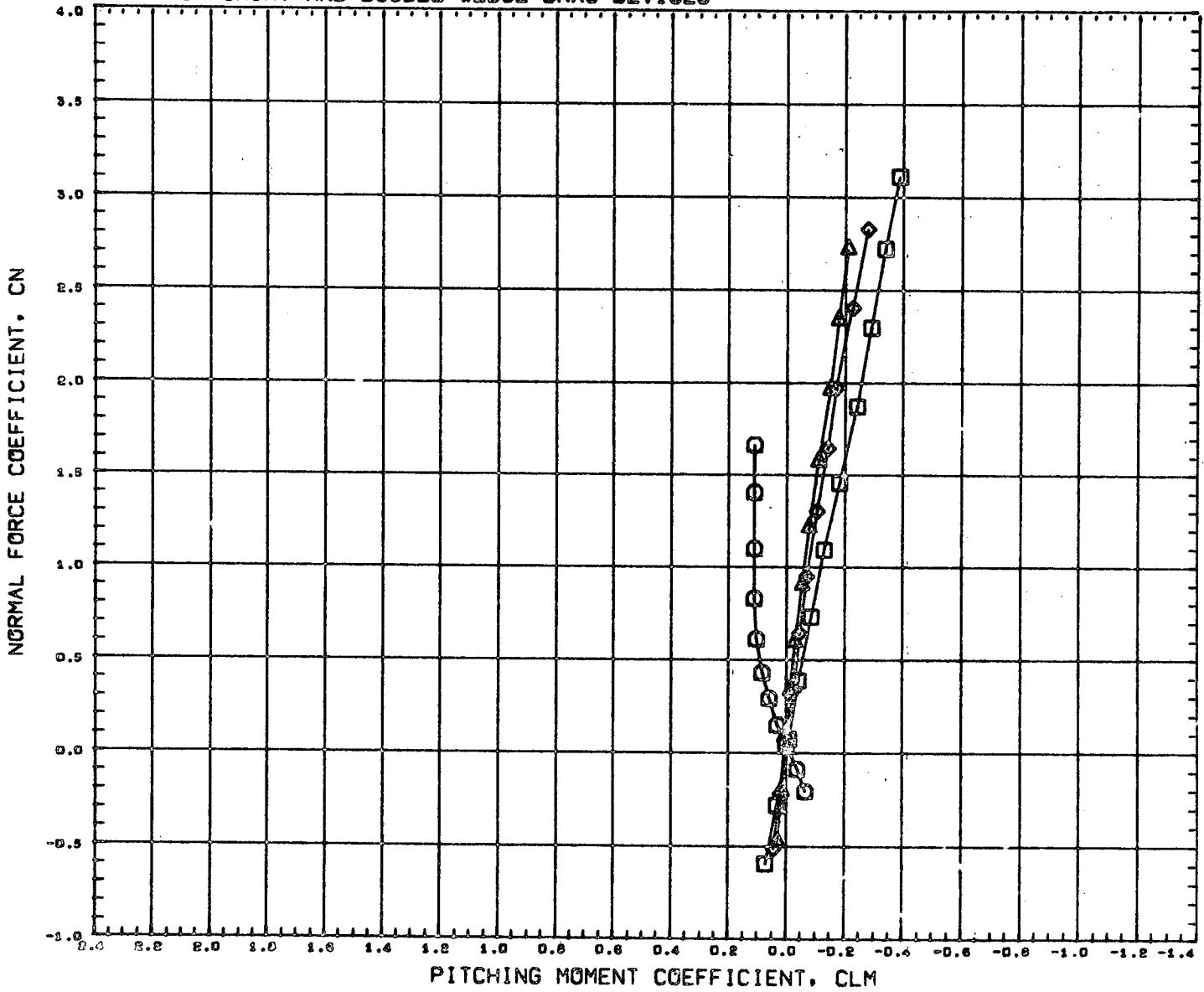
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	B34R6	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .003366 BOOSTER	B34R6	0.000	45.000			SPCF 0.9350 SQ. IN.
(E9001A)	MSFC 512 GD/C .003366 BOOSTER	B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	MSFC 512 GD/C .003366 BOOSTER	B34R6S3T10	0.000	0.000			BREF 1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER	B34R6T17	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 1.986

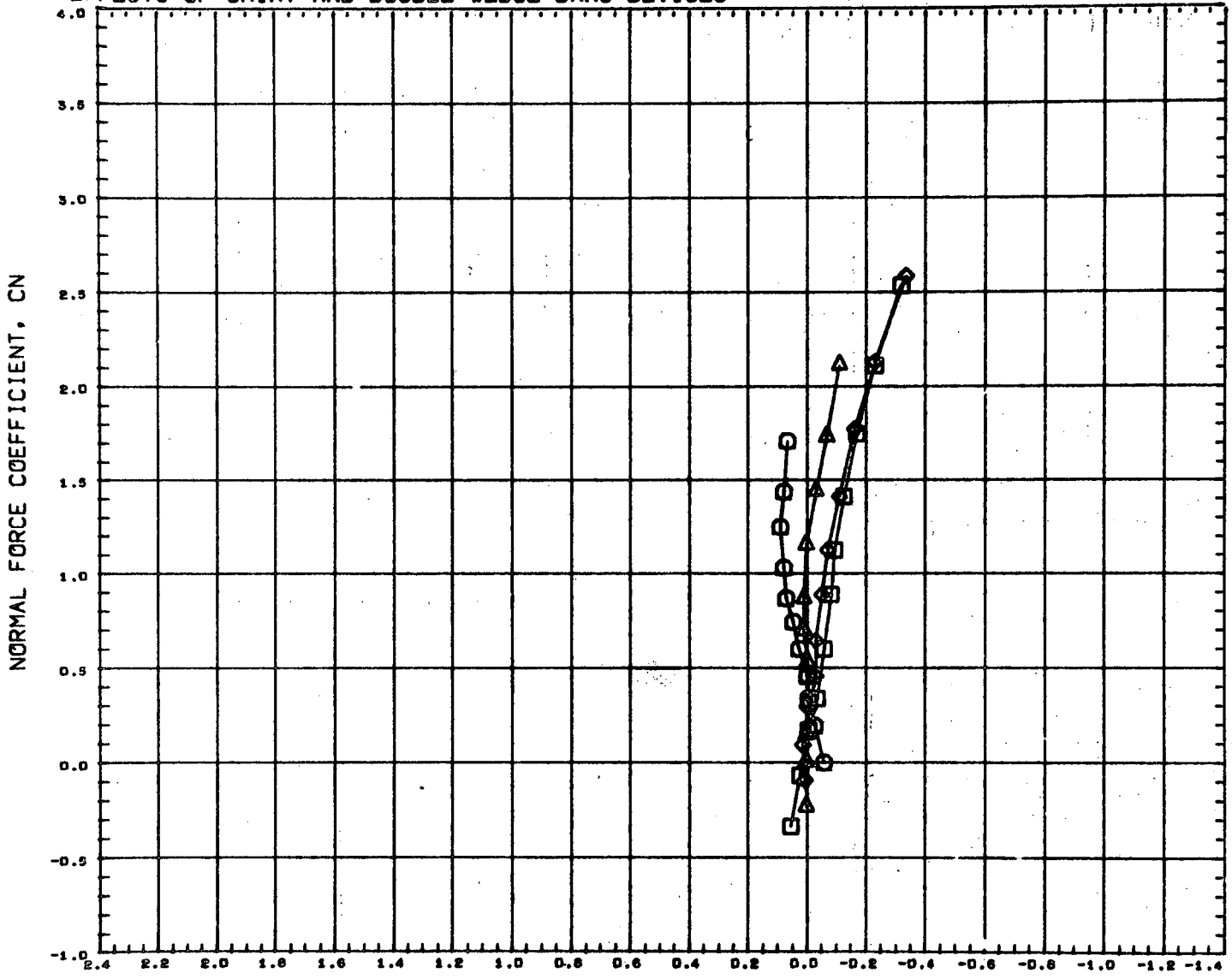
EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011A)	MSFC 512 GD/C .003000 BOOSTER	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E9001A)	MSFC 512 GD/C .003000 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90100)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	BREF 1.0910 INCHES
(D90000)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	35.000	35.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

EFFECTS OF SKIRT AND DOUBLE WEDGE DRAG DEVICES

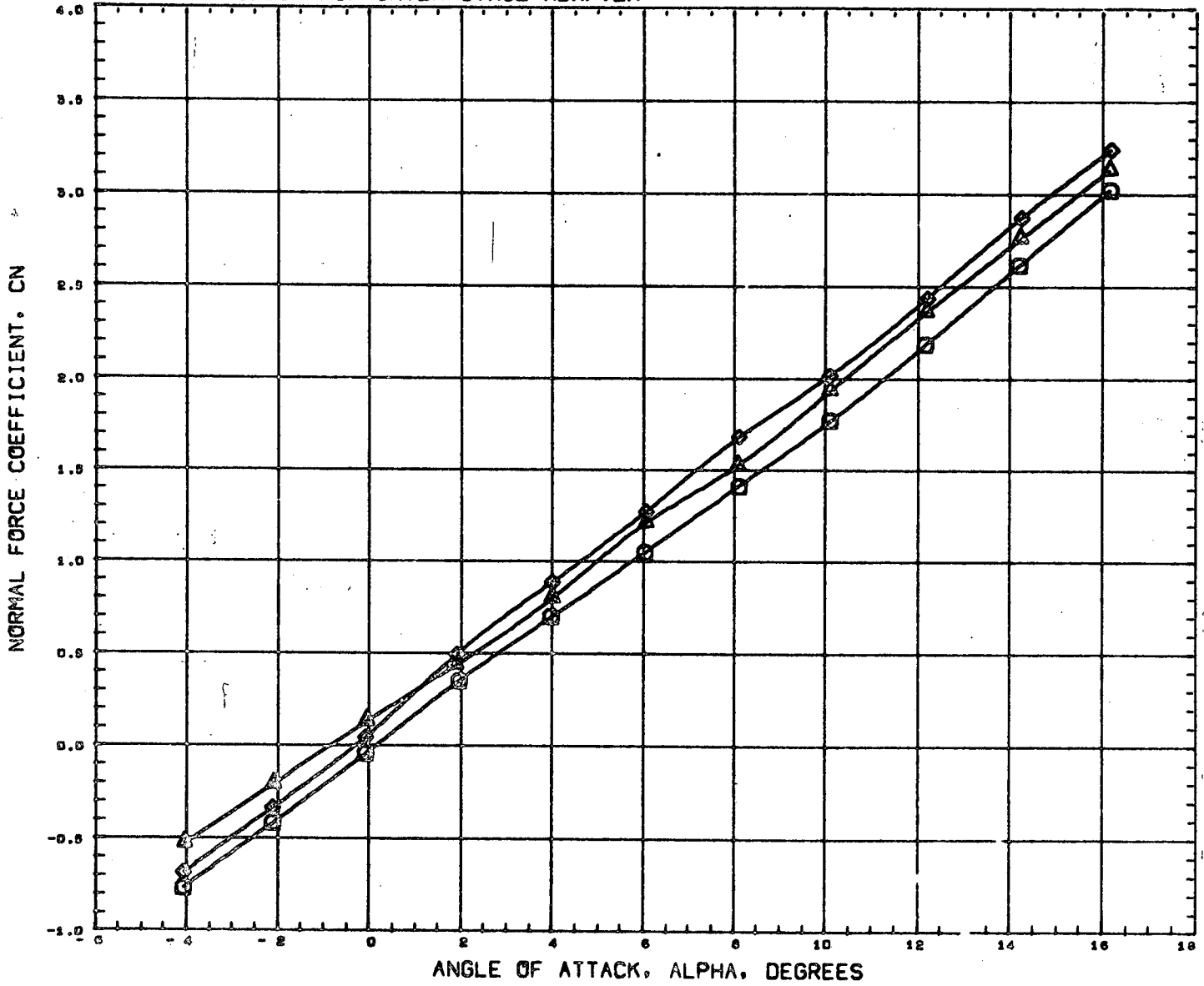


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	B34R6	BETA	PHIN00	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5011A)	MSFC 512 GD/C .003366 BOOSTER	B34R6	0.000	45.000			SLCF	0.9350 SQ. IN.
(E5001A)	MSFC 512 GD/C .003366 BOOSTER	B34R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50100)	MSFC 512 GD/C .003366 BOOSTER	B34R6S3T10	0.000	0.000			BREF	1.0910 INCHES
(D50090)	MSFC 512 GD/C .003366 BOOSTER	B34R6T17	0.000	0.000	35.000	35.000	AMRP	3.7920 INCHES
							YMRF	0.0000 INCHES
							ZMRF	0.0000 INCHES
							SCALE	0.0034

MACH 4.950

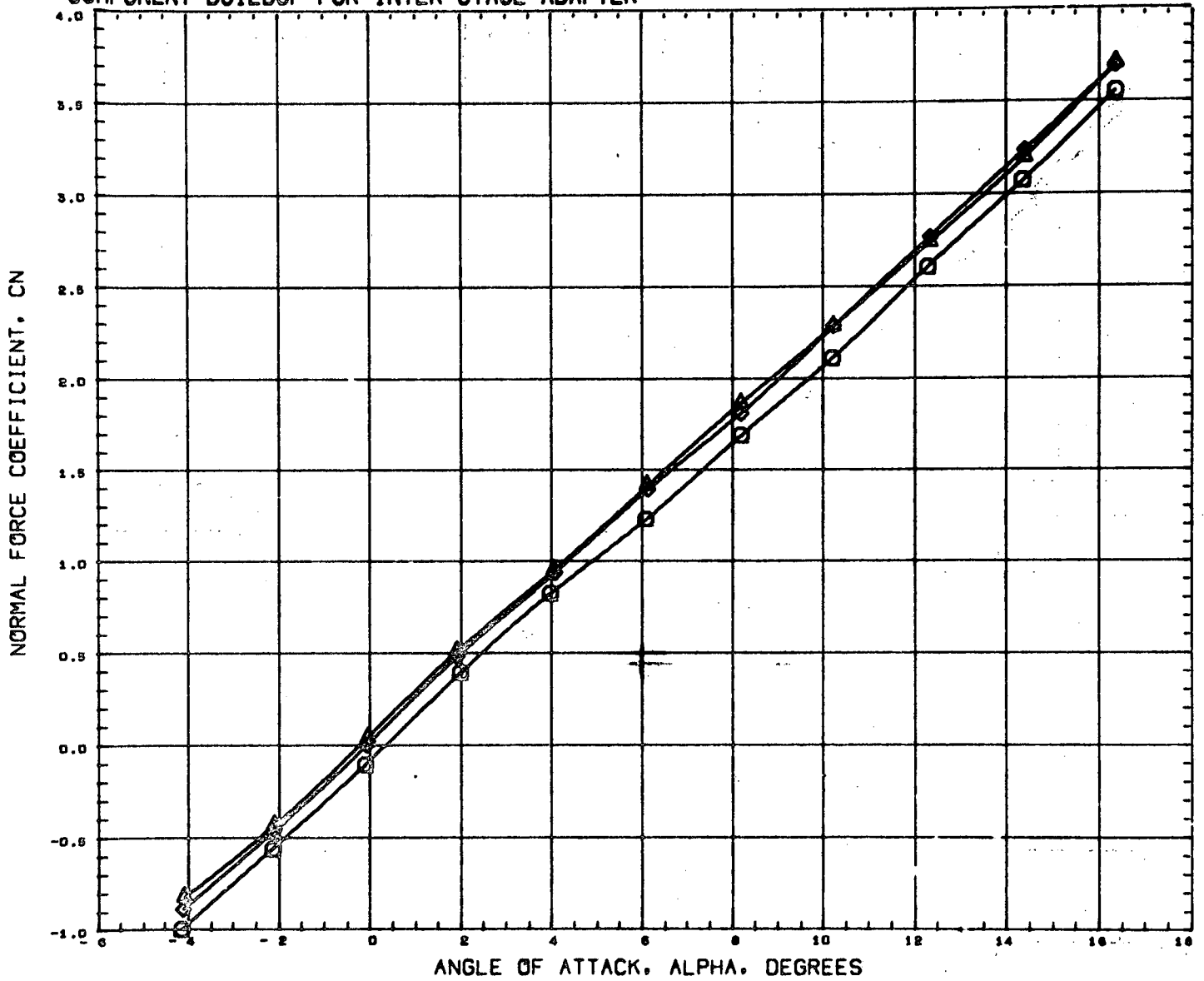
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 6D/C .005903 COASTER	0.000	0.000	0.000	0.000	SRFF 0.9350 89. IN.
(D9014D)	MSFC 512 6D/C .005900 COASTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9015D)	MSFC 512 6D/C .005906 COASTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.998

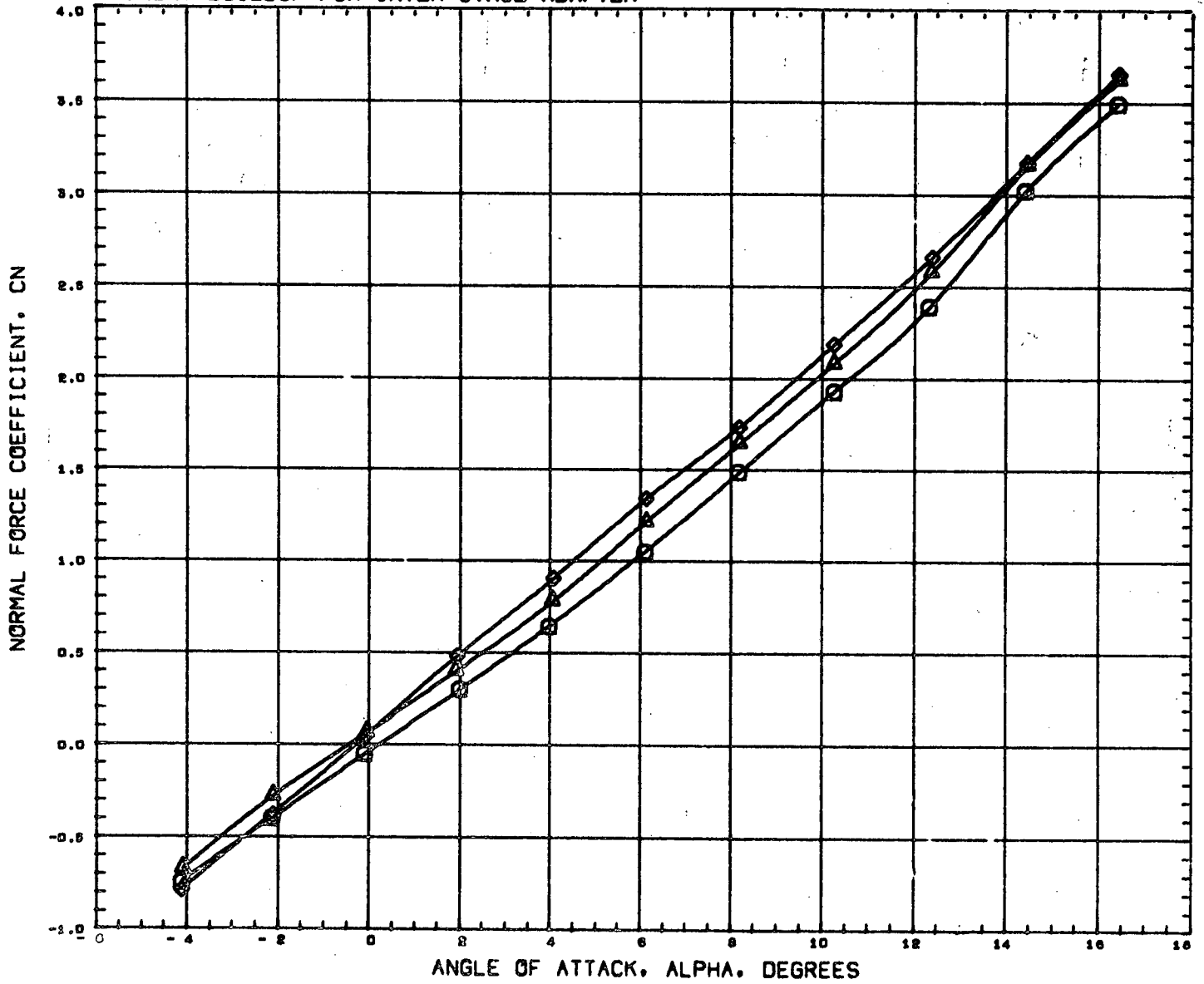
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SR** 0.9380 90 IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XHRP 3.7920 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

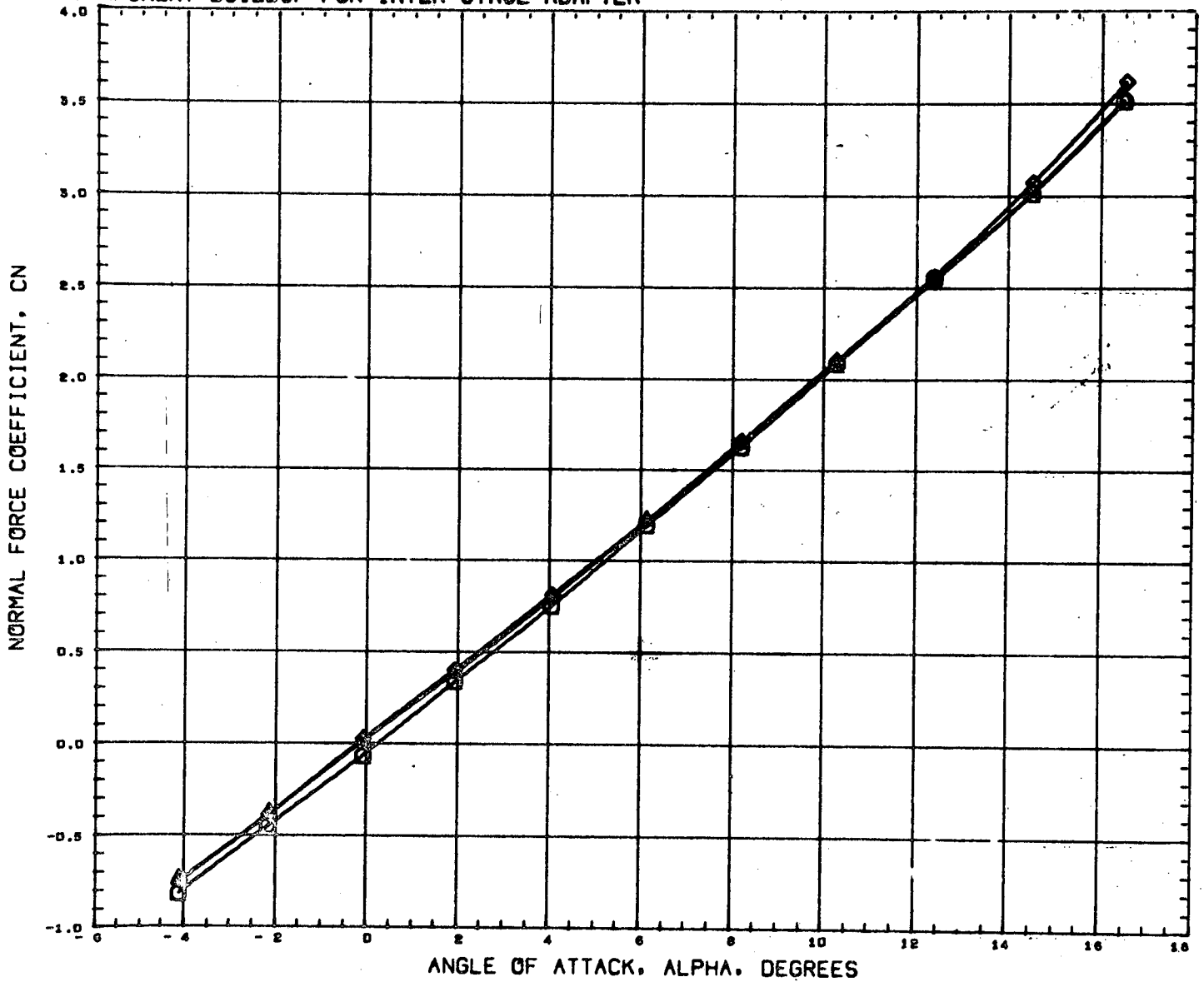
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001C)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 0.9360 SQ. IN.
(D9014D)	M8FC 512 GD/C .003360 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9015D)	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.101

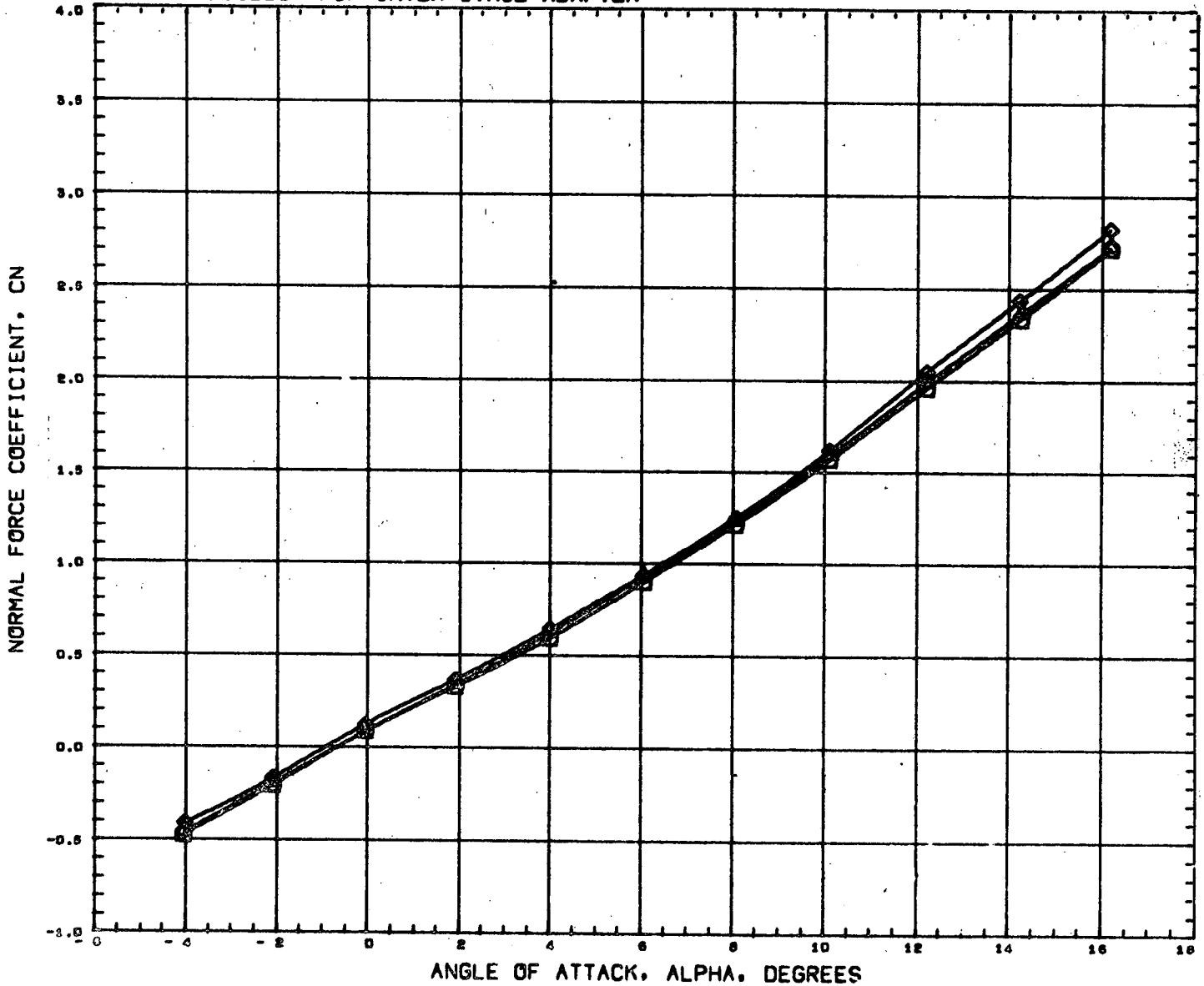
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SREF 0.9350 80. IN.
(D50140)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0810 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.462

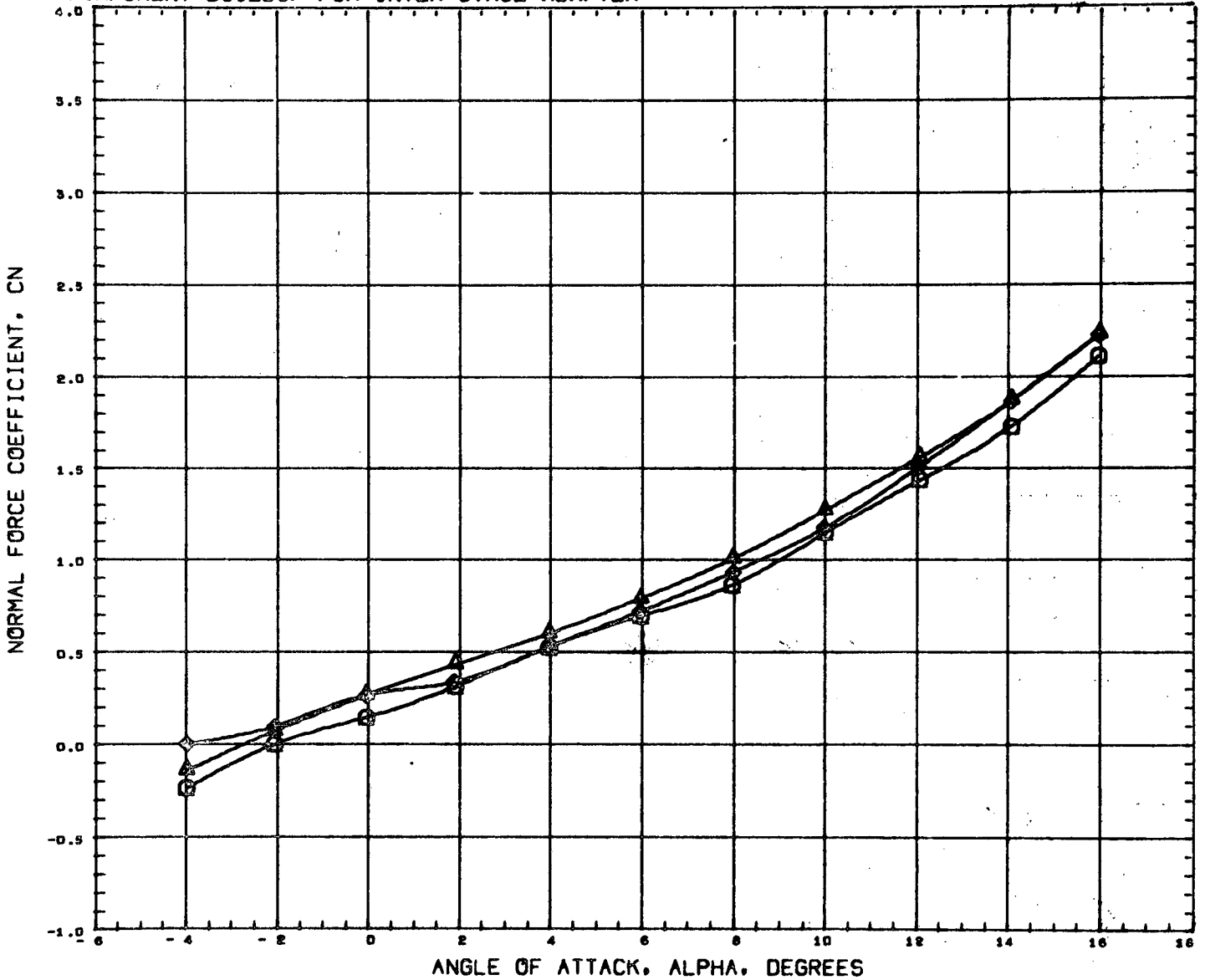
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E9001C)	MSFC 912 GD/C .003900 BOOSTER	0.000	0.000	0.000	0.000	SLCF	0.9350 80. IN.
(D90140)	MSFC 912 GD/C .003986 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D90150)	MSFC 912 GD/C .003986 BOOSTER	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						AMRP	3.7920 INCHES
						YMRF	0.0000 INCHES
						ZMRF	0.0000 INCHES
						SCALE	0.0034

MACH 2.7411

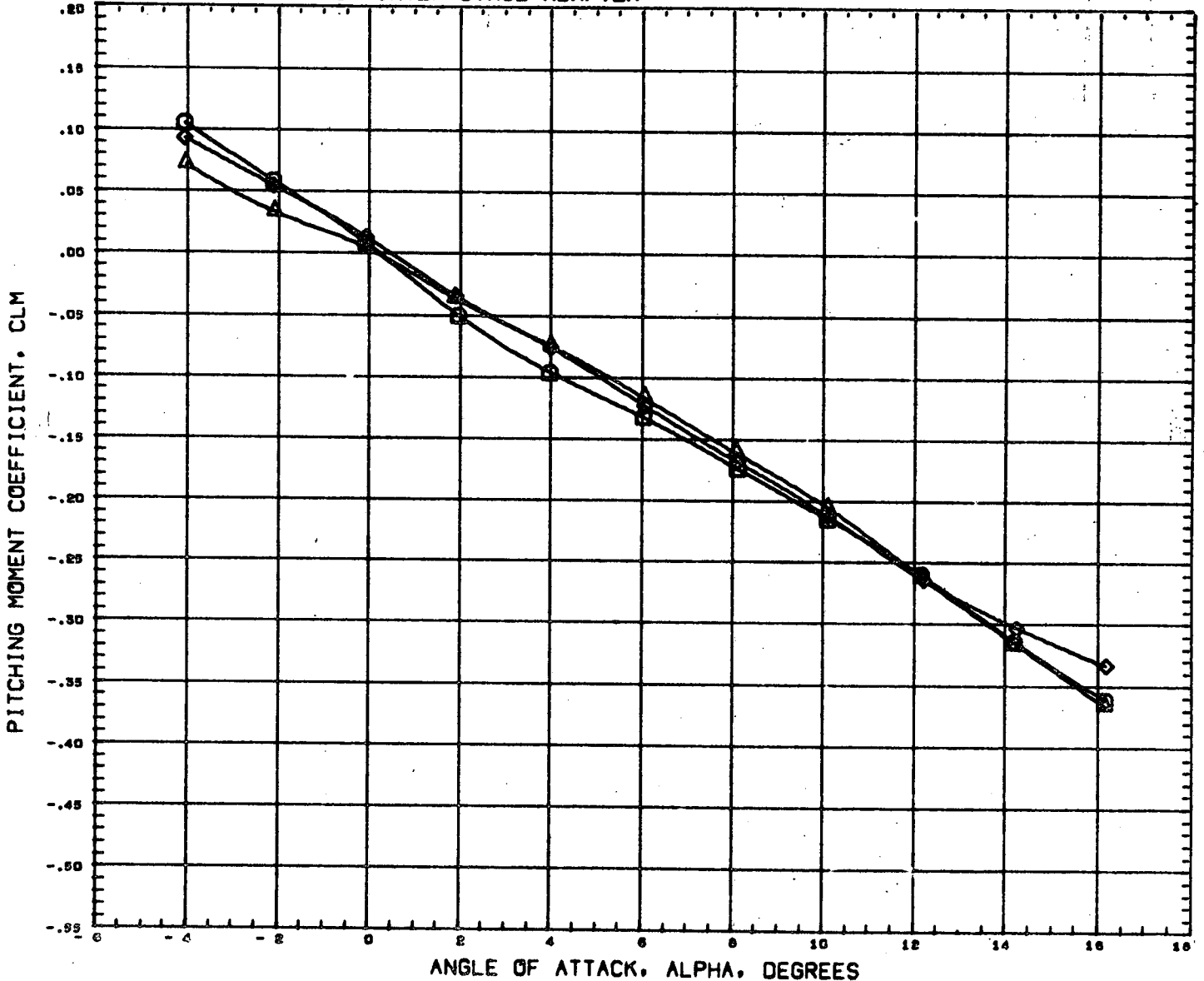
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	SkLF 0.9350 80. IN.
(D90140)	MSFC 512 GD/C .003366 BOOSTER B35R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90150)	MSFC 512 GD/C .003366 BOOSTER B36R6T1D	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.953

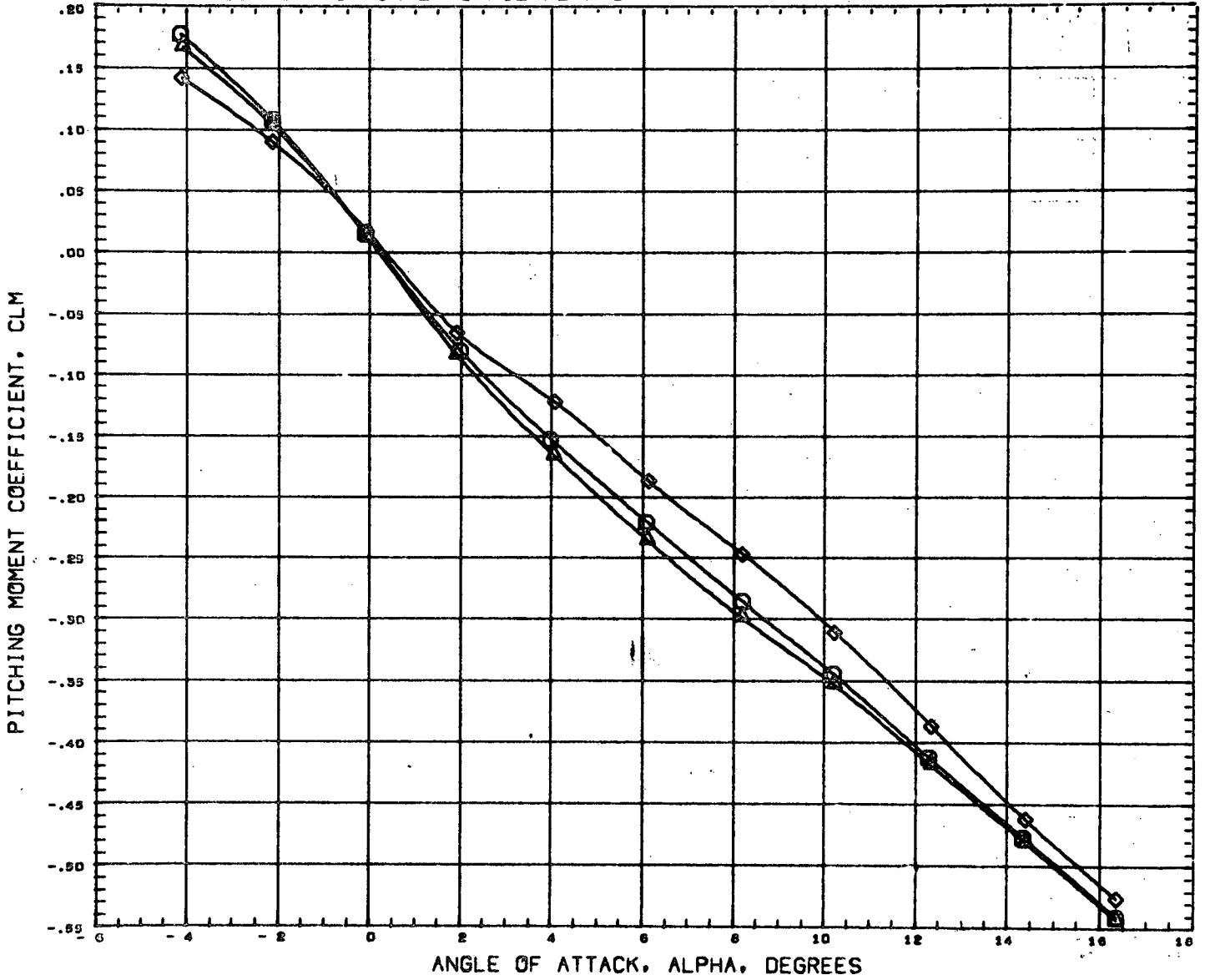
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SCALE 0.0034
(D50140)	M8FC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	M8FC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES

MACH 0.596

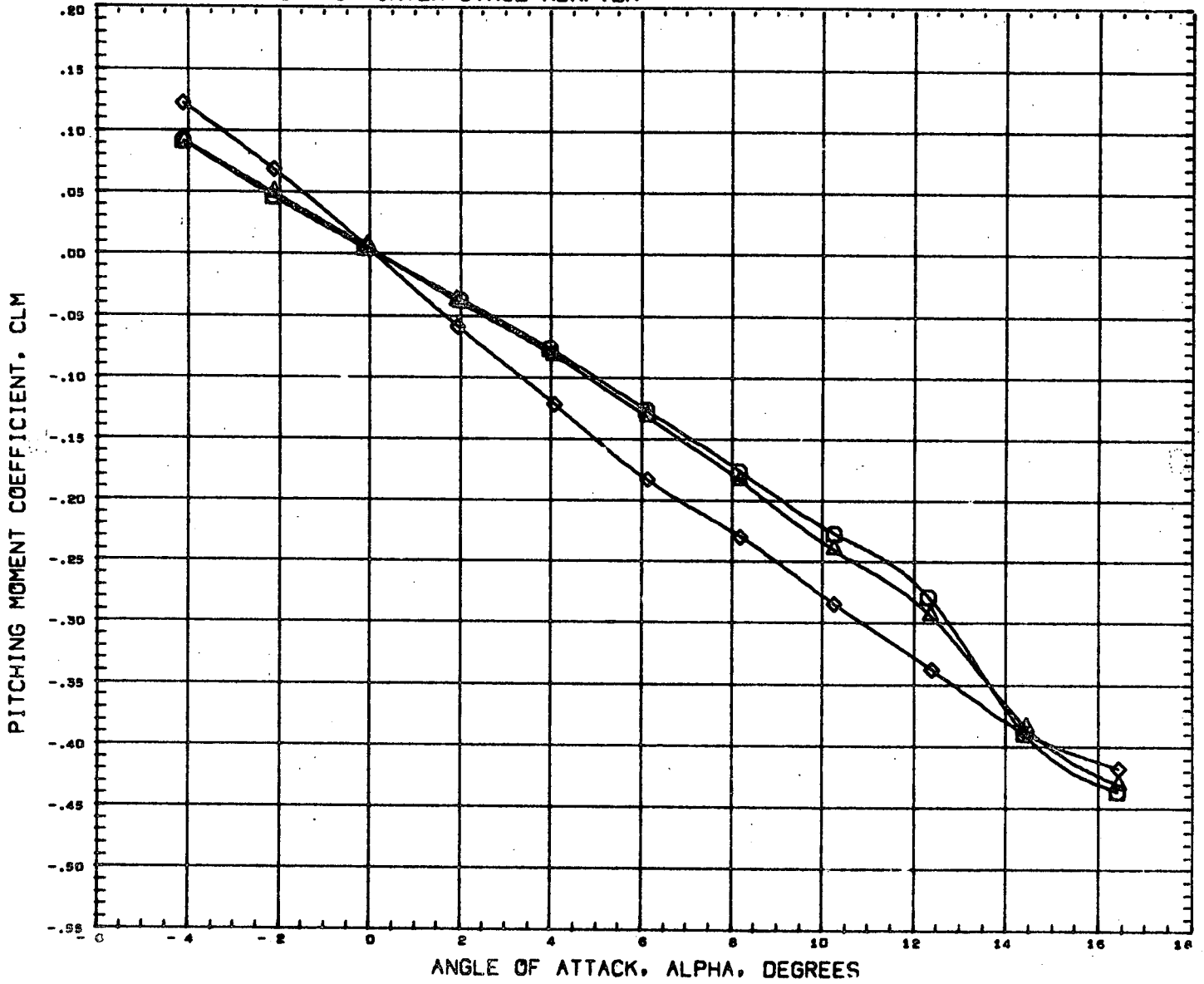
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	STEF 0.9350 SQ. IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

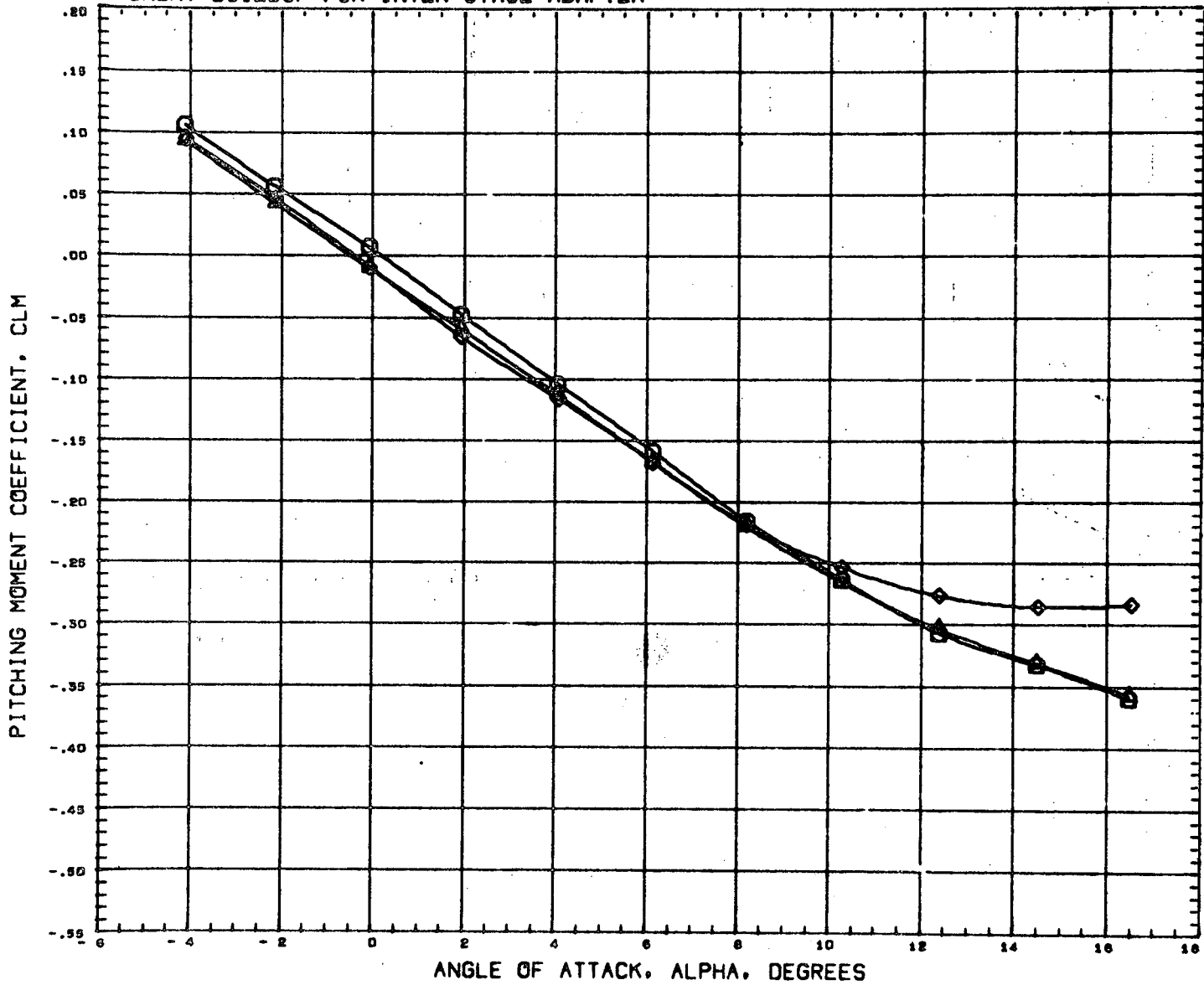
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	S.EF 0.9350 SQ. IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER B35R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER B36R6T1D	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES AMAP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.101

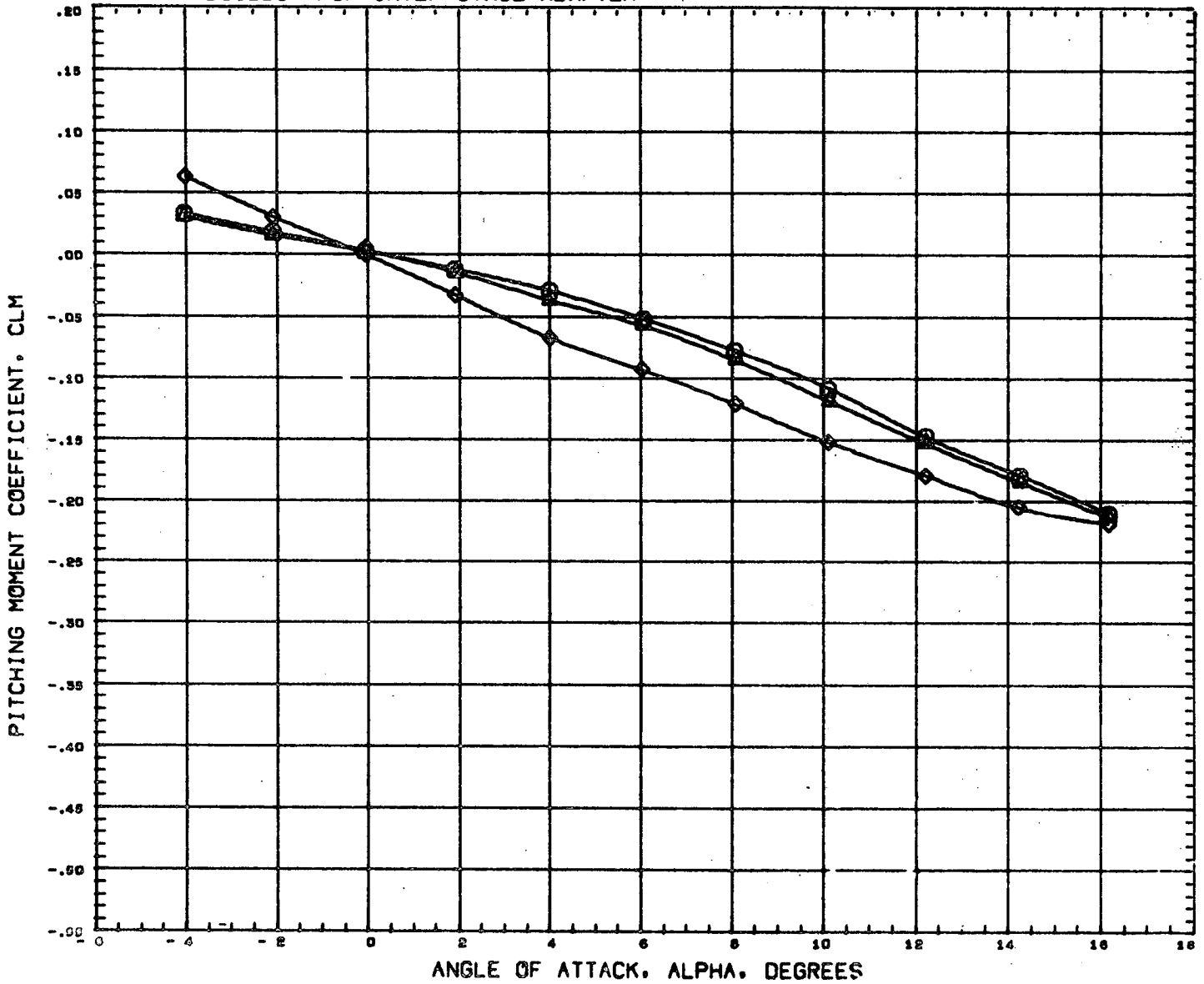
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SRLF 0.9350 60. IN.
(D9014D)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9015D)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.462

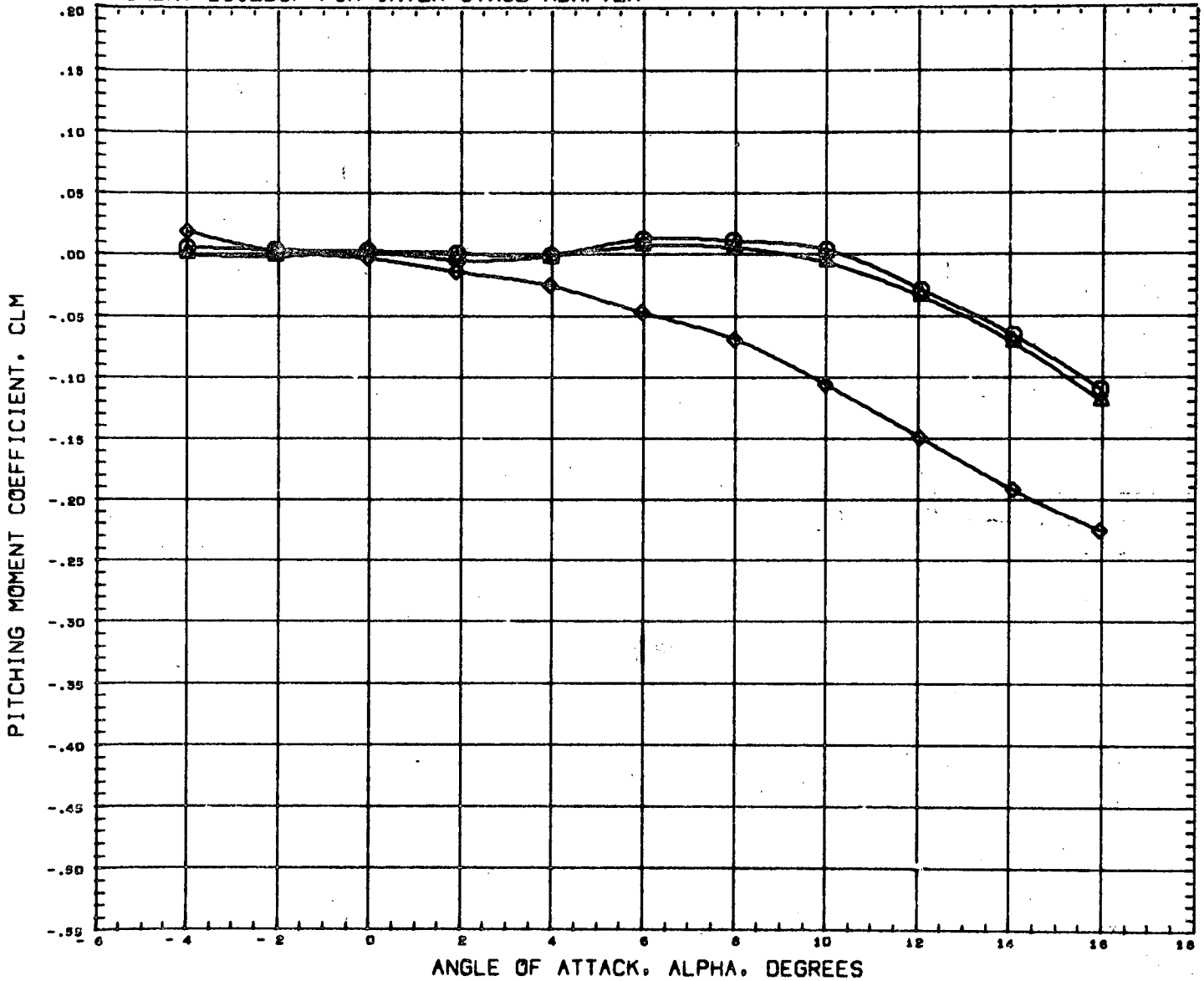
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003966 BOOSTER	0.000	0.000	0.000	0.000	SIZE 0.9390 89. IN.
(D5014D)	MSFC 512 GD/C .003966 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003966 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.7411

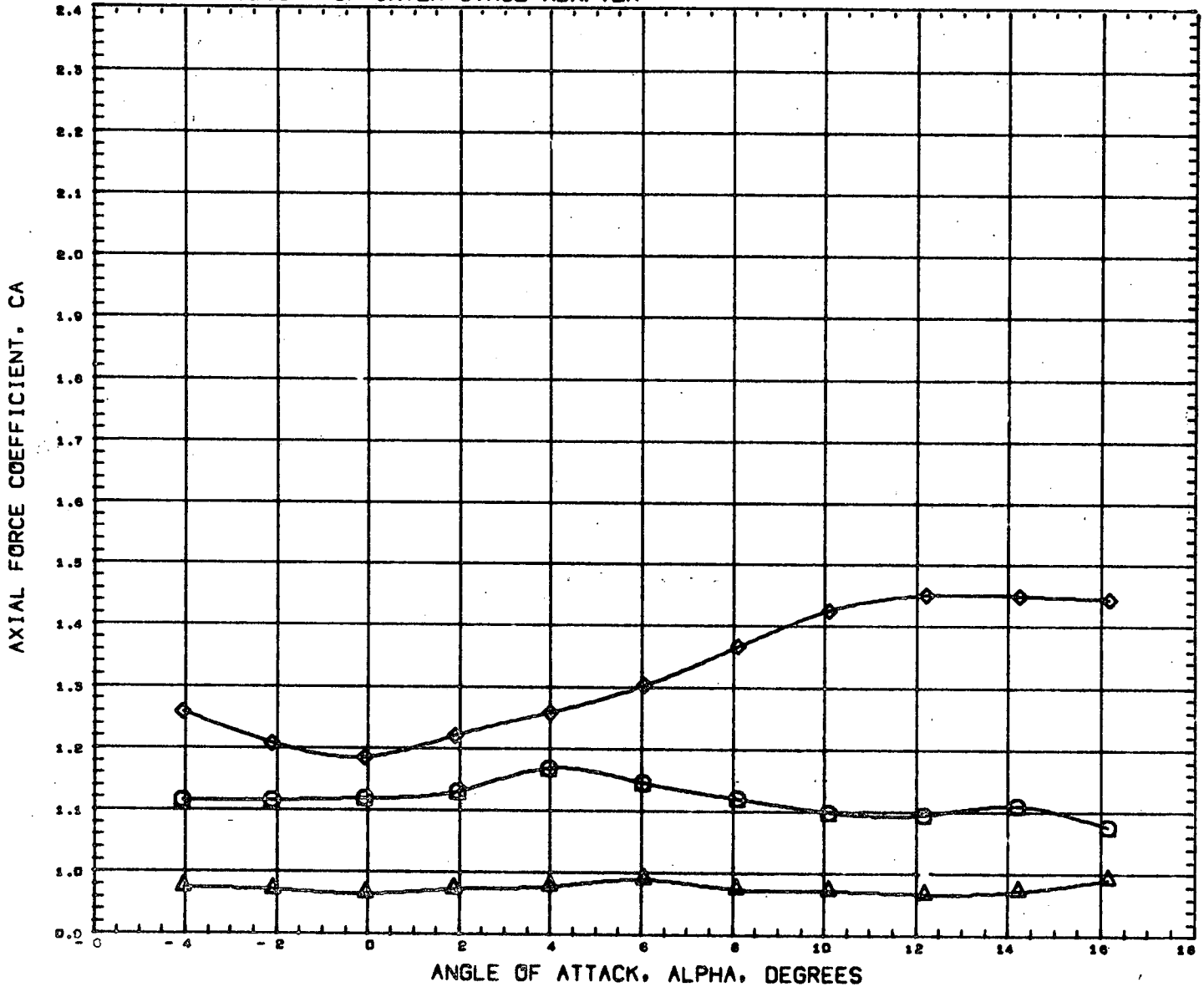
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SRLF 0.9350 88. IN.
(D5014D)	M8FC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	M8FC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

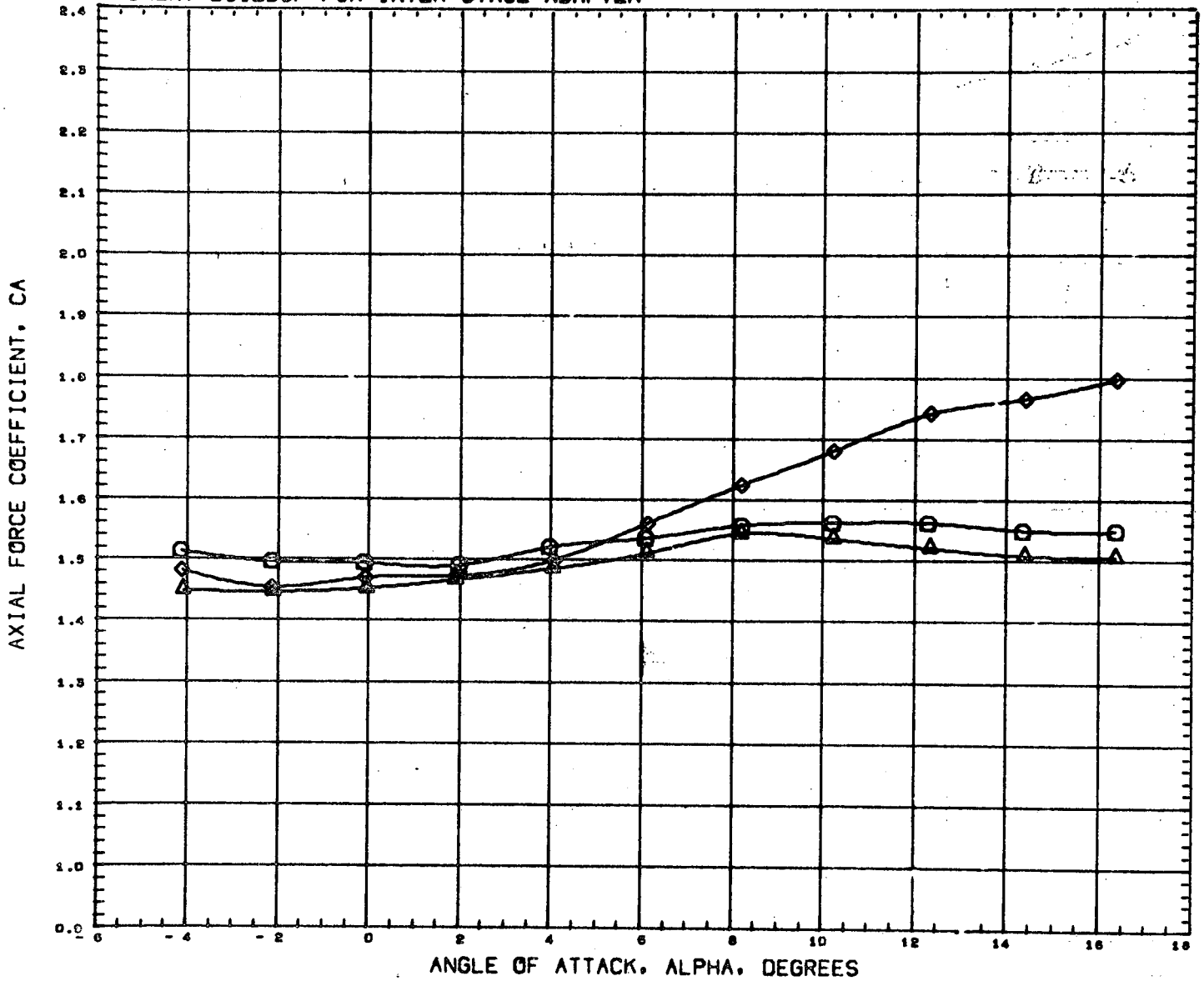
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003300 BOOSTER	0.000	0.000	0.000	0.000	SREF 0.9350 89. IN.
(D90140)	MSFC 512 GD/C .003300 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90150)	MSFC 512 GD/C .003306 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.888

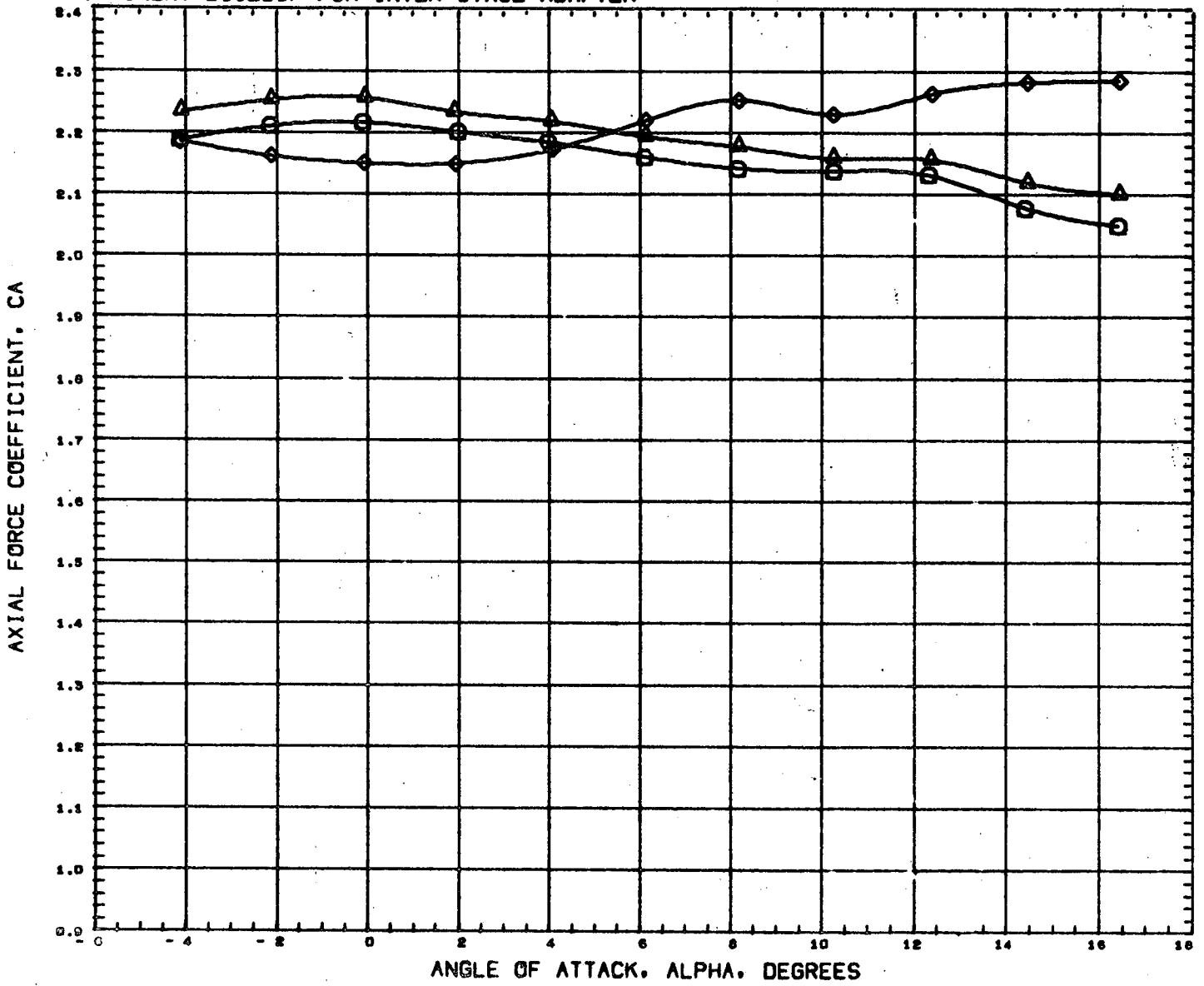
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003368 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SRFF 0.9350 SQ. IN.
(D50140)	MSFC 512 GD/C .003368 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003368 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XHRF 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

COMPONENT BUILDUP FOR INTER STAGE ADAPTER

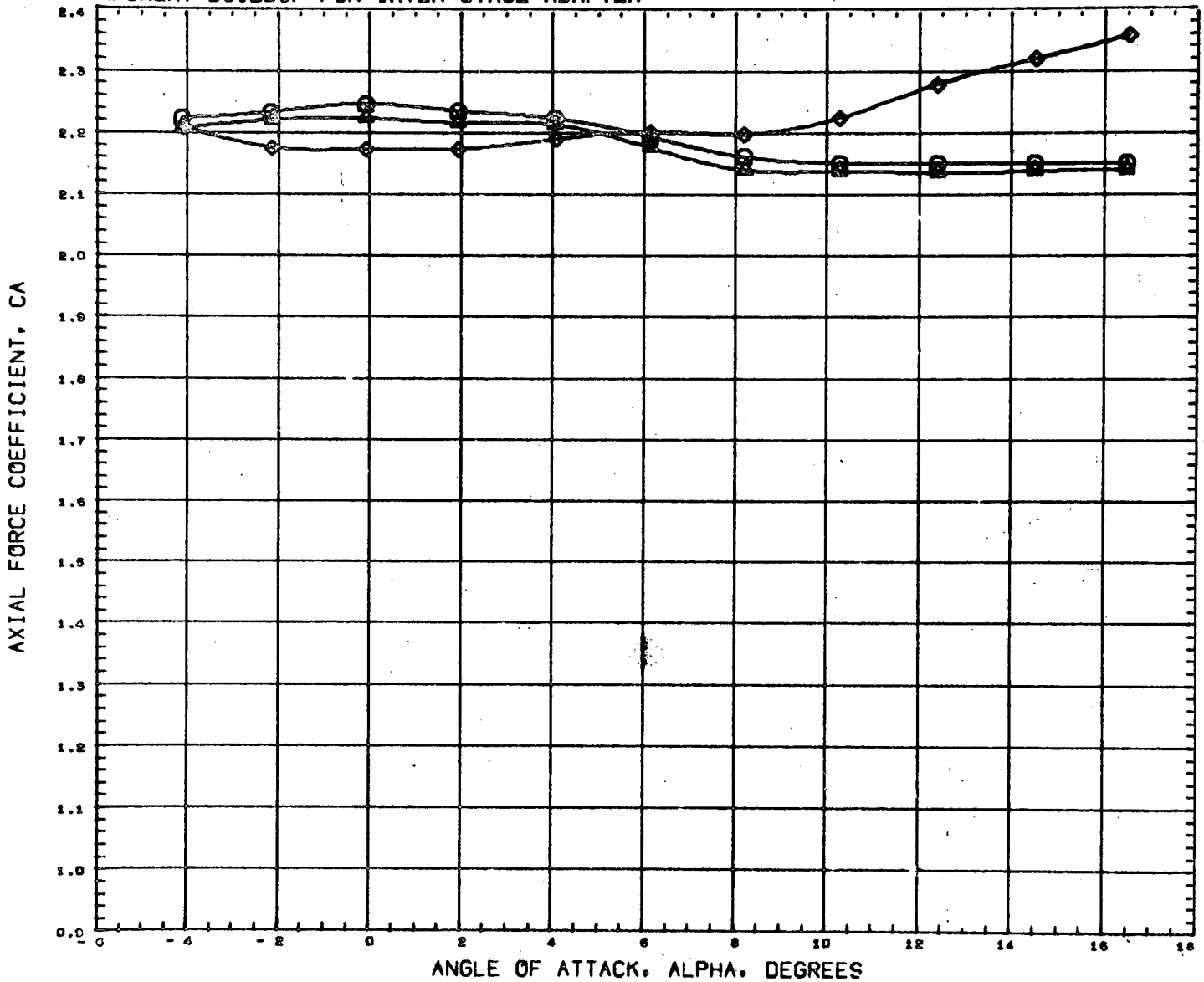


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001C)	MSFC 512 GD/C .003966 BOOSTER	0.000	0.000	0.000	0.000	SFCF 0.9350 SQ. IN.
(D50140)	MSFC 512 GD/C .003966 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003966 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.101

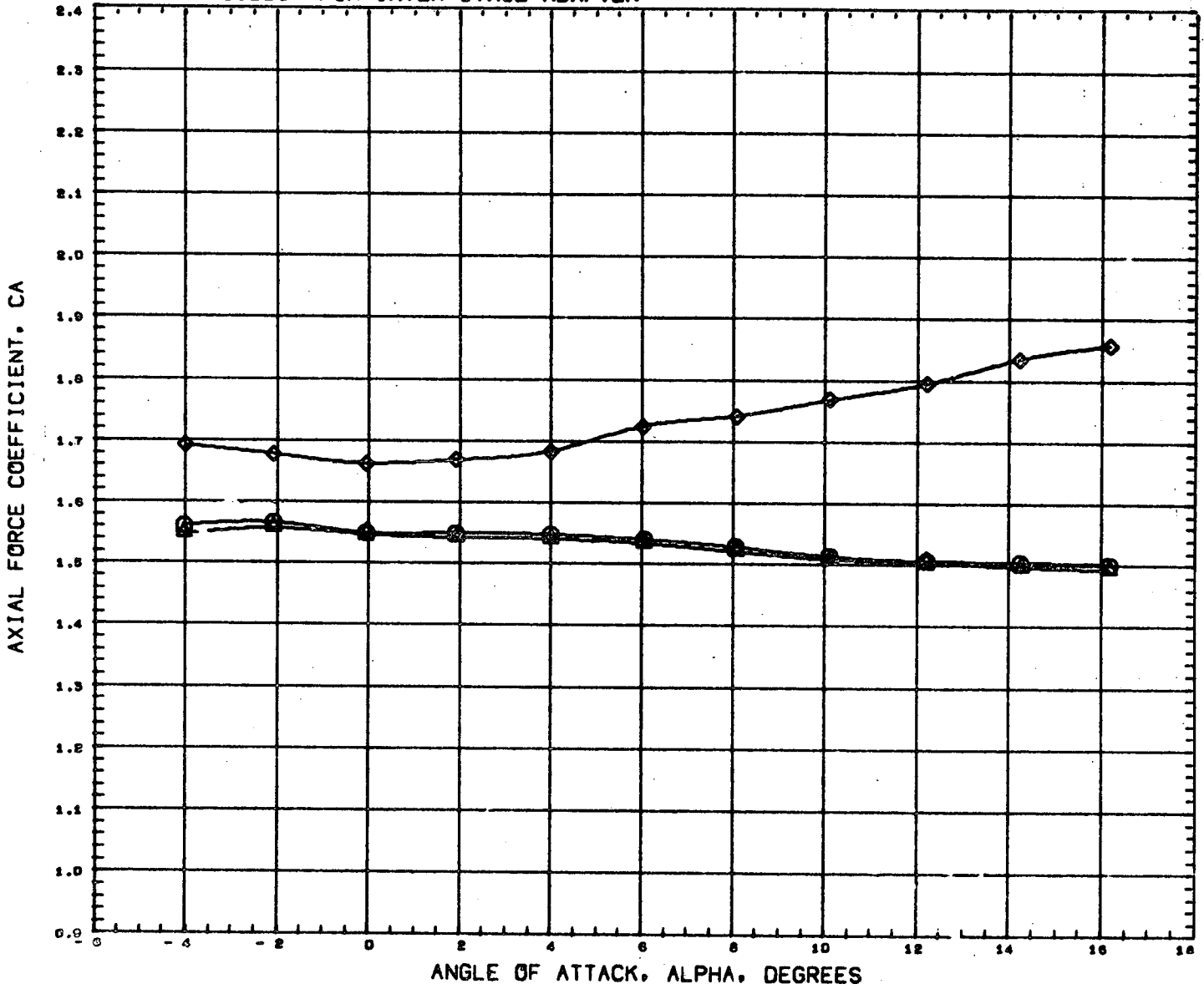
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER 834R6T10	0.000	0.000	0.000	0.000	SAZF 0.9350 SQ. IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER 835R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER 836R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.468

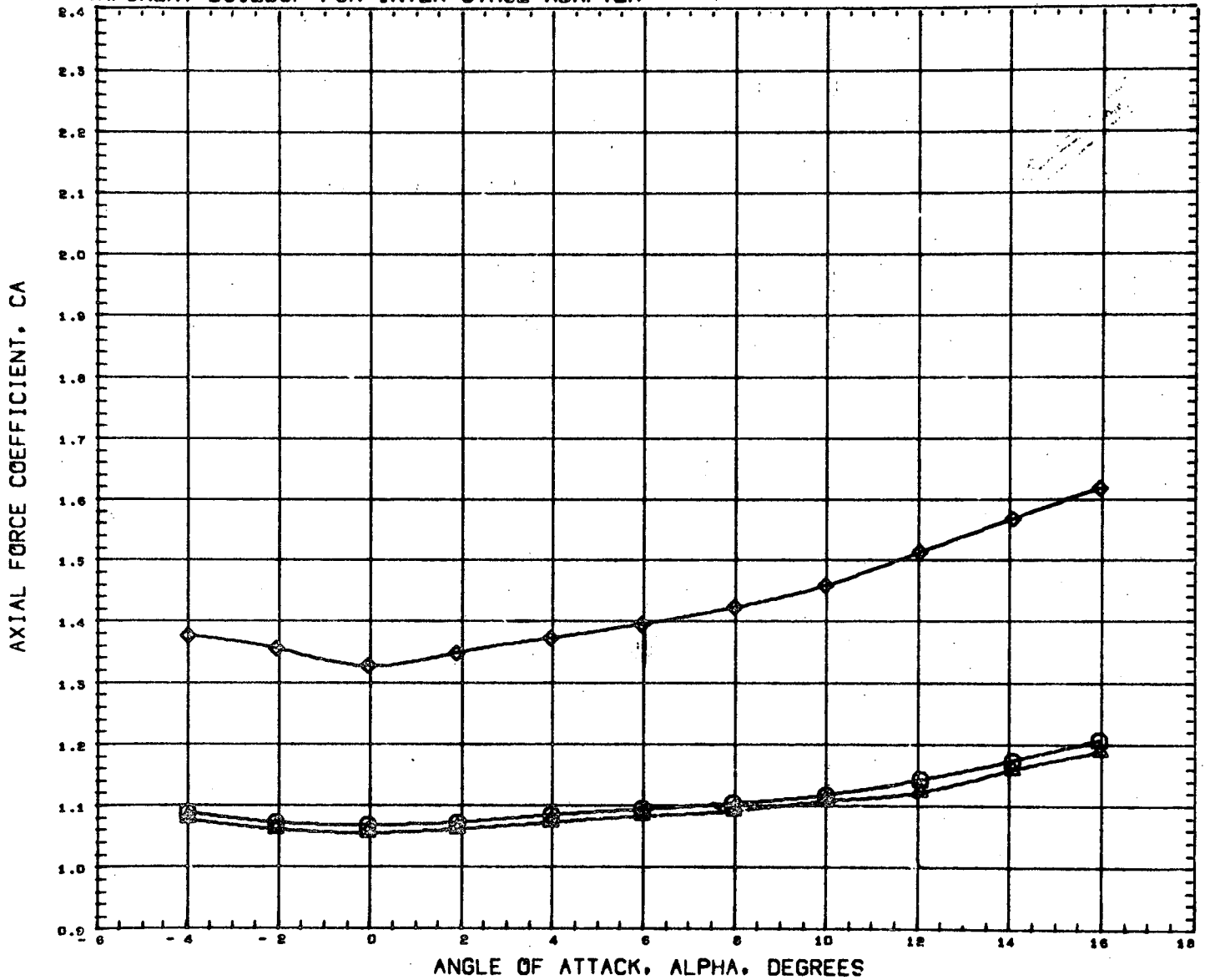
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50D1C)	MSFC 512 GD/C .003306 BOOSTER	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D5014D)	MSFC 512 GD/C .003306 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

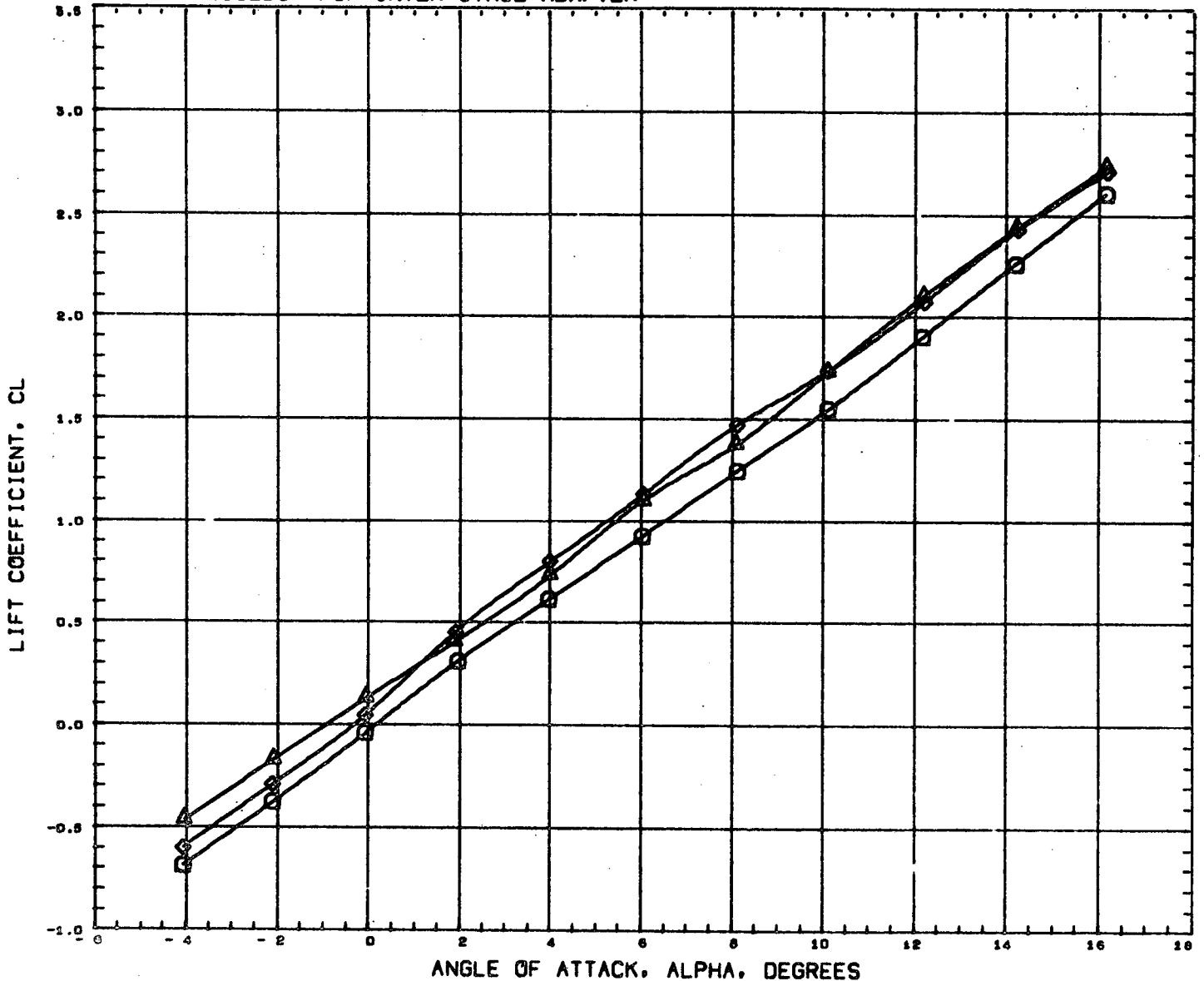
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SACF 0.9350 80.IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHE8
(D5015D)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHE8
						XMRP 3.7920 INCHE8
						YMRP 0.0000 INCHE8
						ZMRP 0.0000 INCHE8
						SCALE 0.0034

MACH 4.955

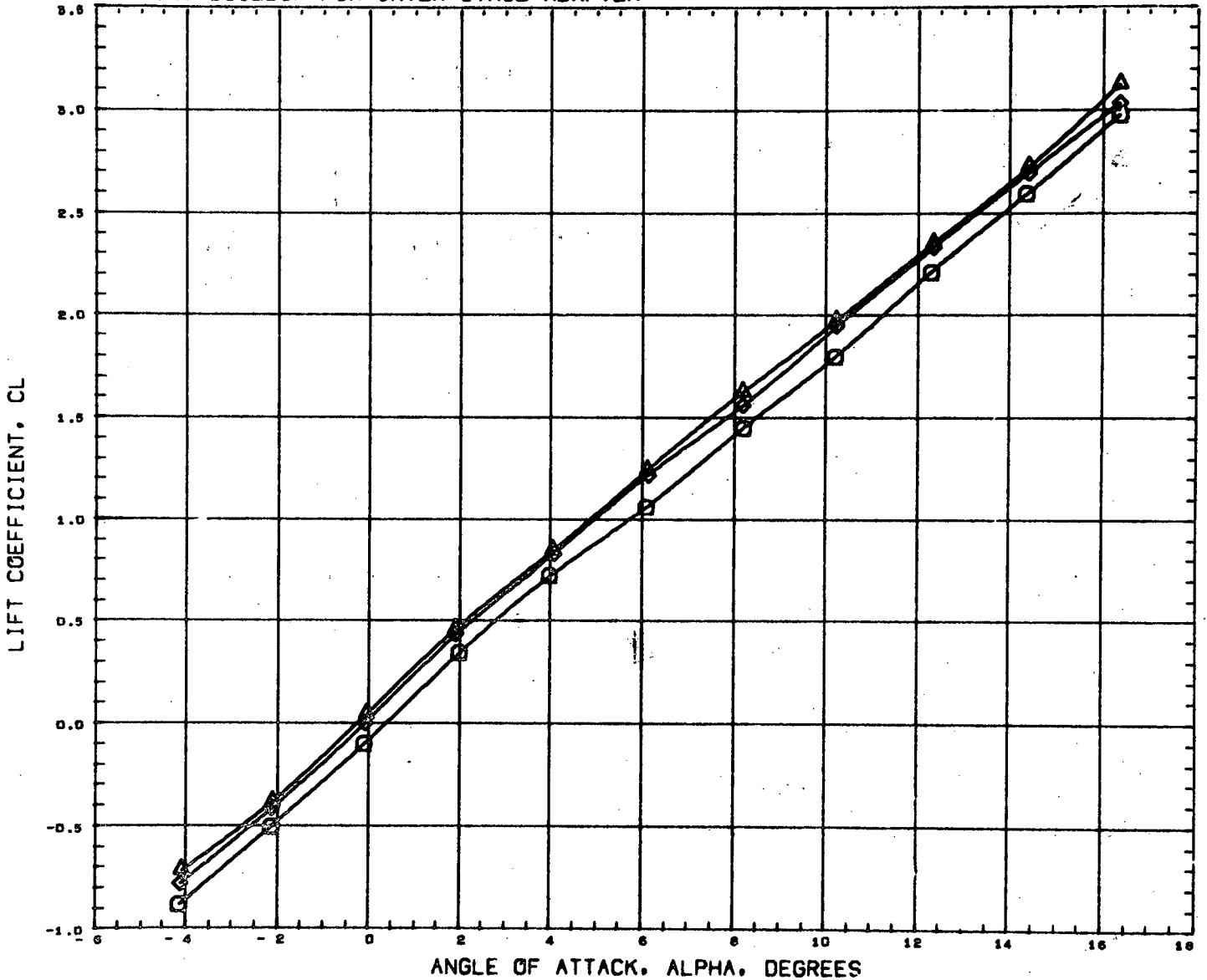
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SRLF 0.9350 80.1N.
(D50140)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.598

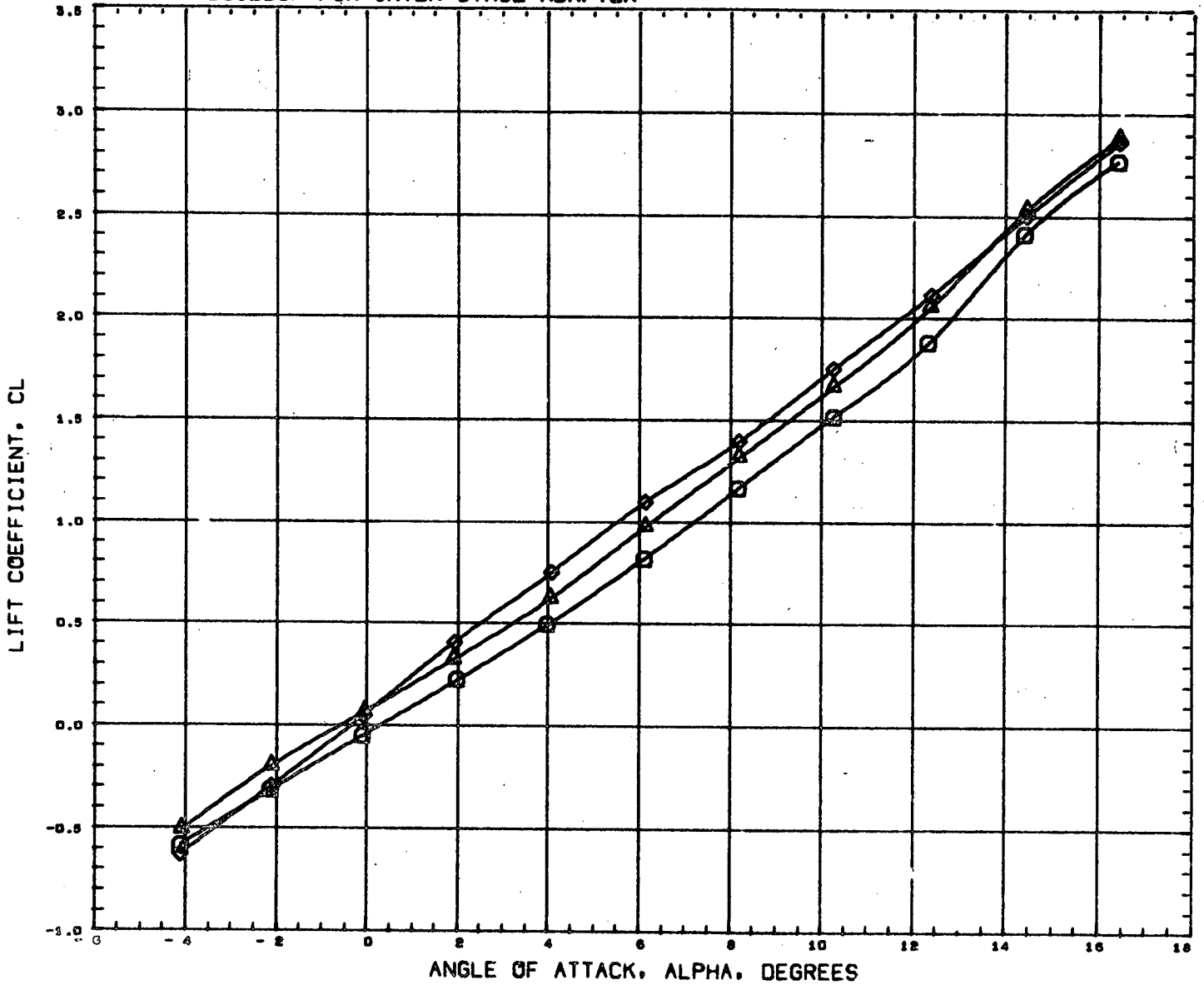
COMPONENT BUILDUP FOR INTER STAGE ADAPTER






DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	REF 0.9350 80.IN.
(D50140)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						ANRP 3.7820 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

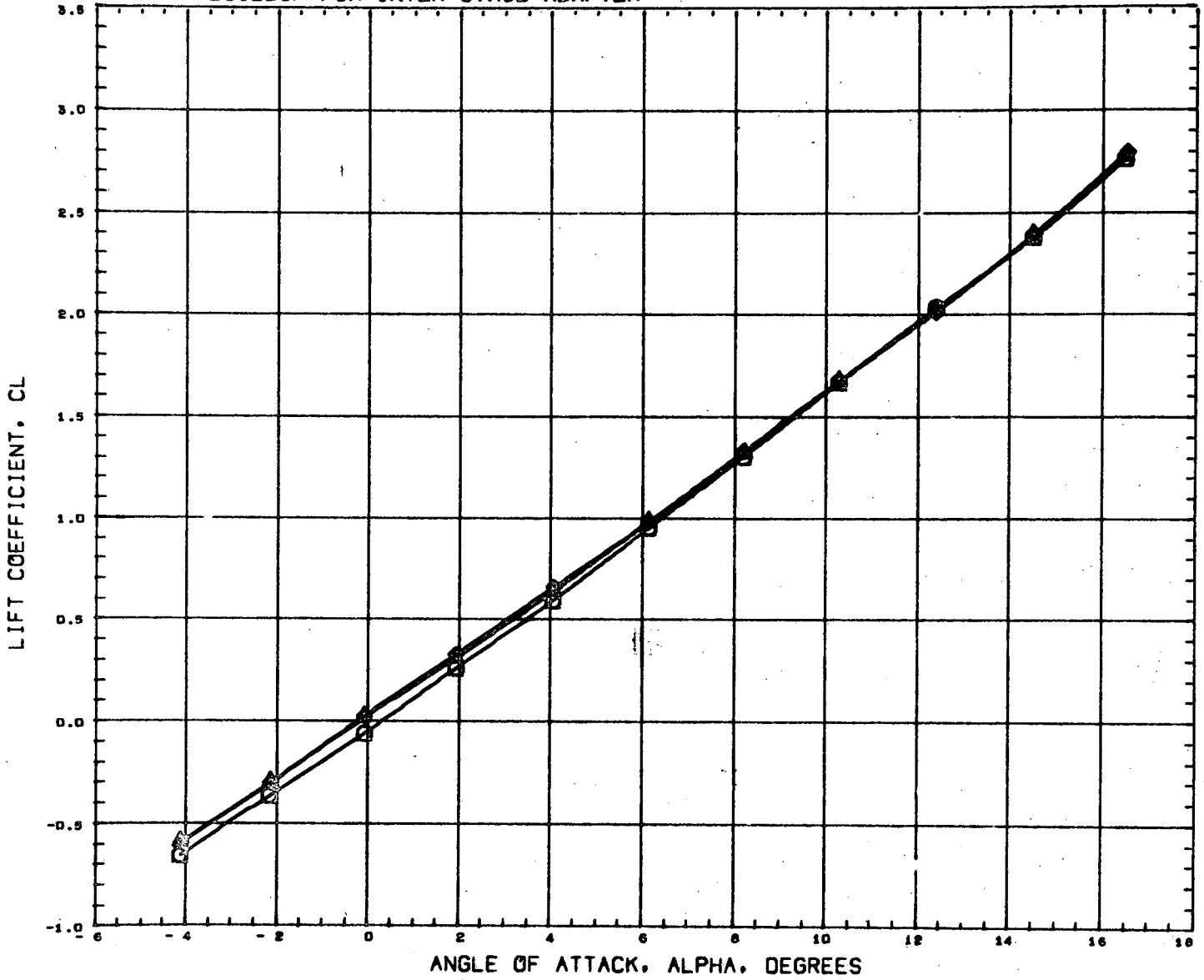
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C) 	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SRCP 0.9350 80. IN.
(D50140) 	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150) 	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.101

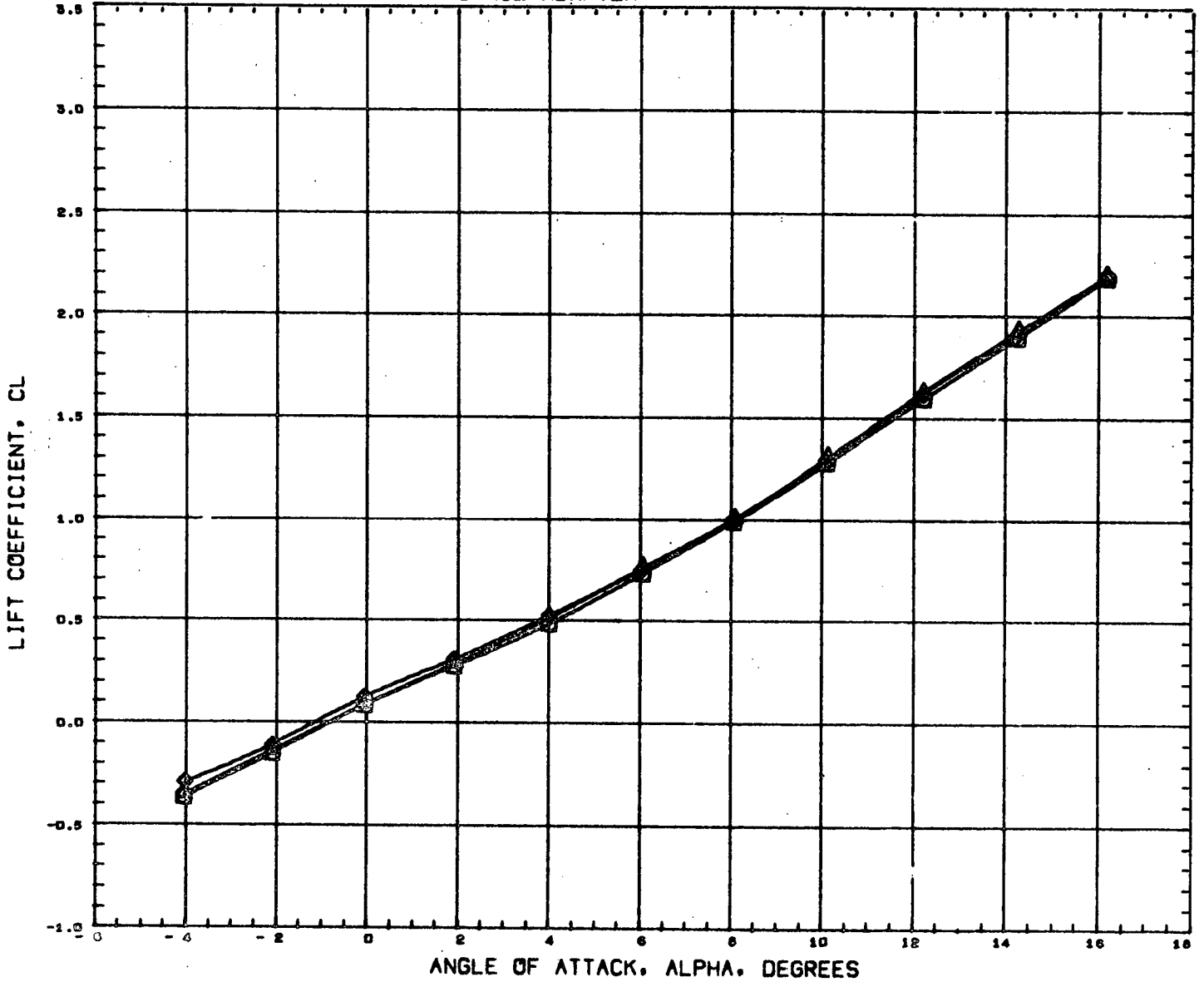
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.462

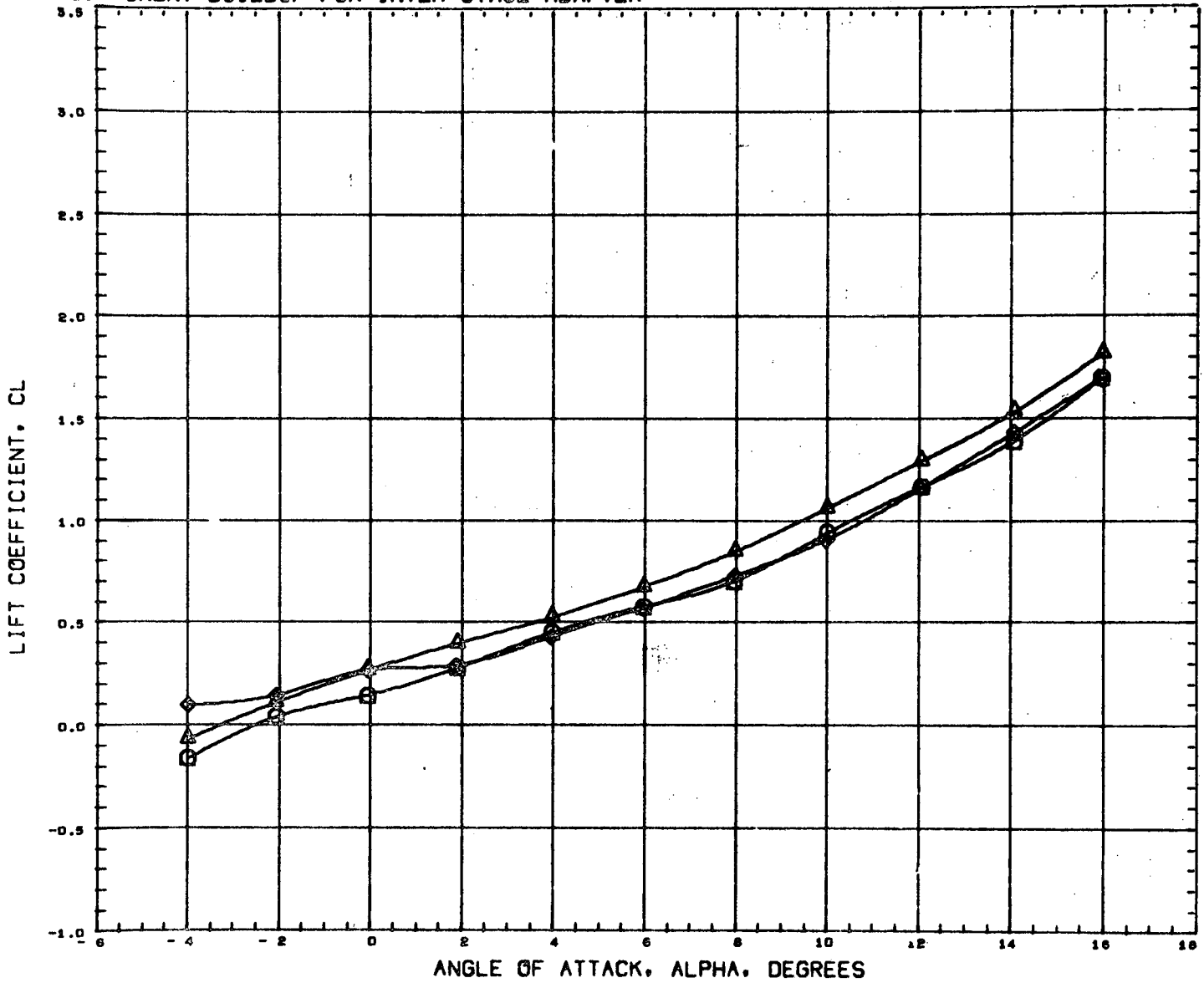
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003866 BOOSTER	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50140)	MSFC 512 GD/C .003866 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003866 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0054

MACH 2.740

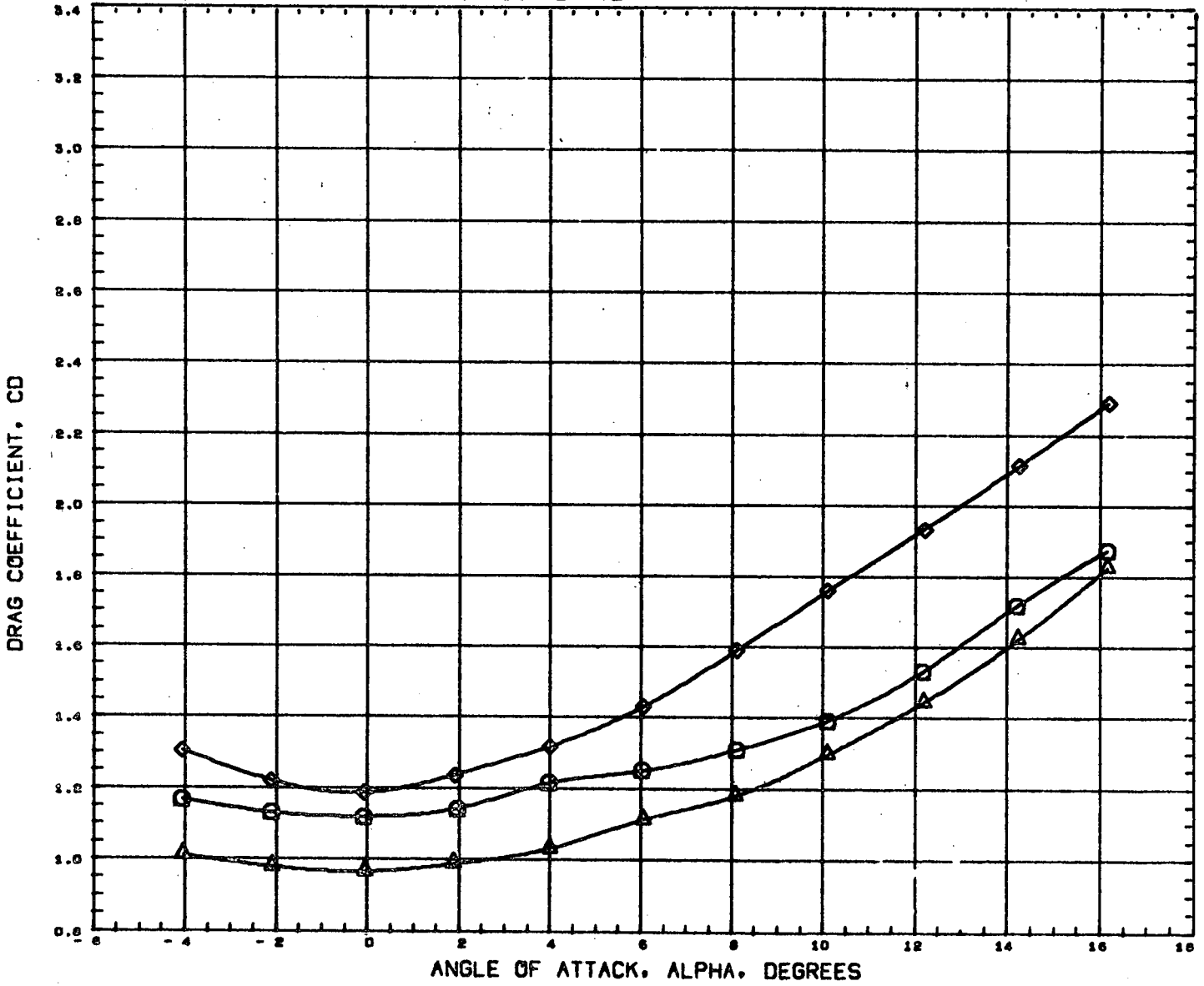
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	○	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SRLF 0.9350 SQ. IN.
(D50140)	△	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	◇	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
							XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 4.959

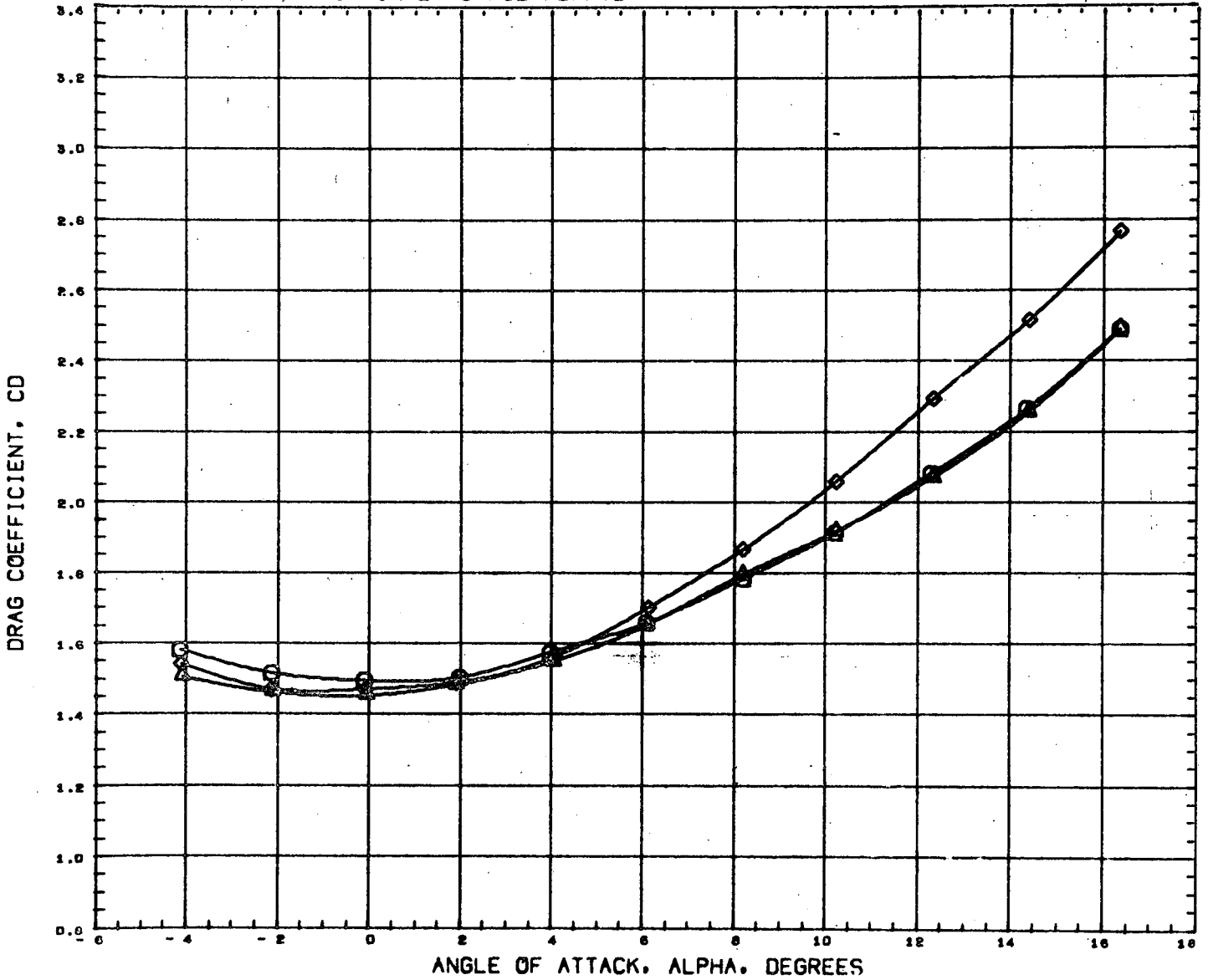
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SRFF 0.9350 SQ. IN.
(D50140)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XNRF 3.7920 INCHES
						YNRF 0.0000 INCHES
						ZNRF 0.0000 INCHES
						SCALE 0.0034

MACH 0.598

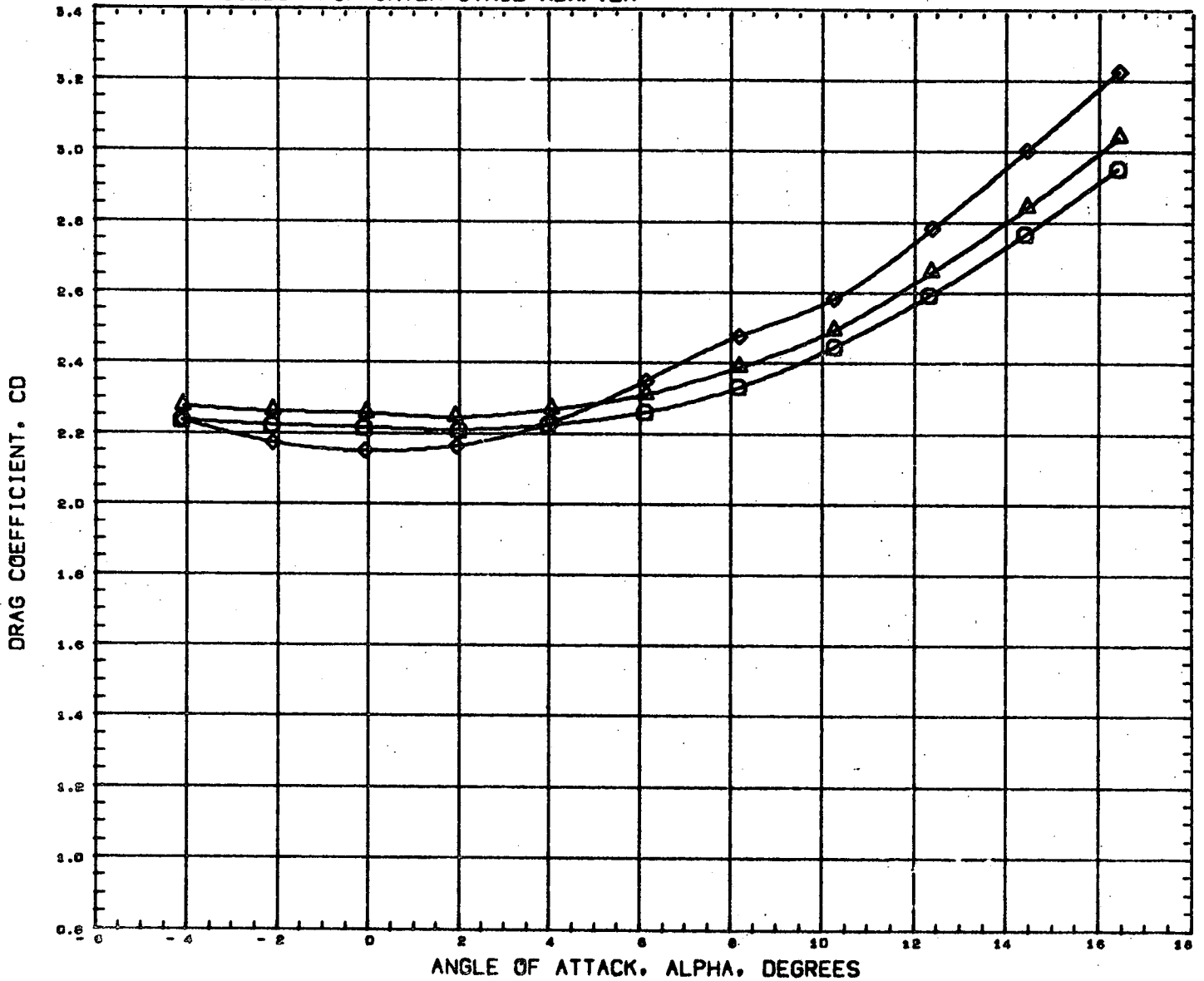
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50140)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMR 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

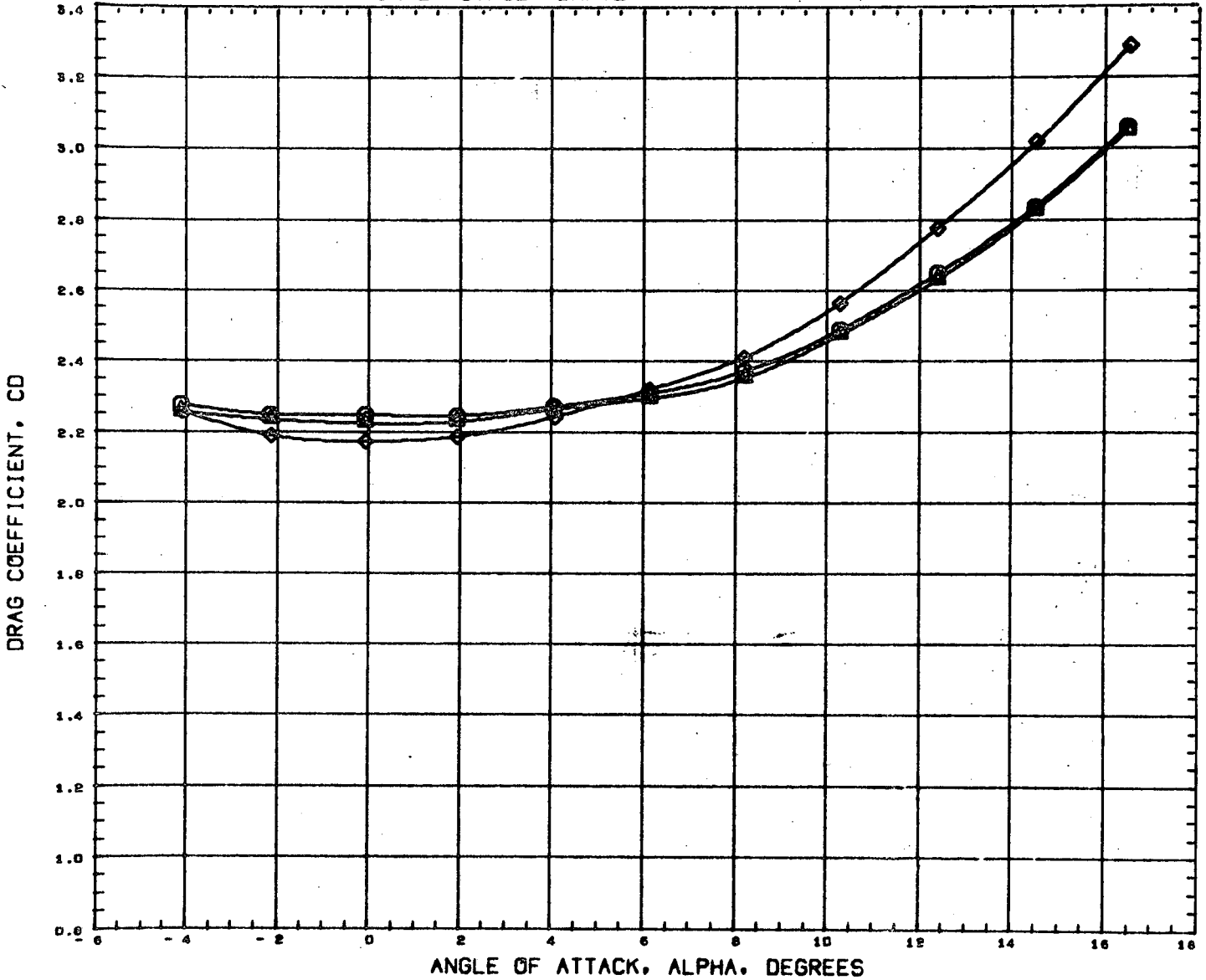
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SREF 0.9350 80. IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XNRP 3.7920 INCHES
						YNRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.101

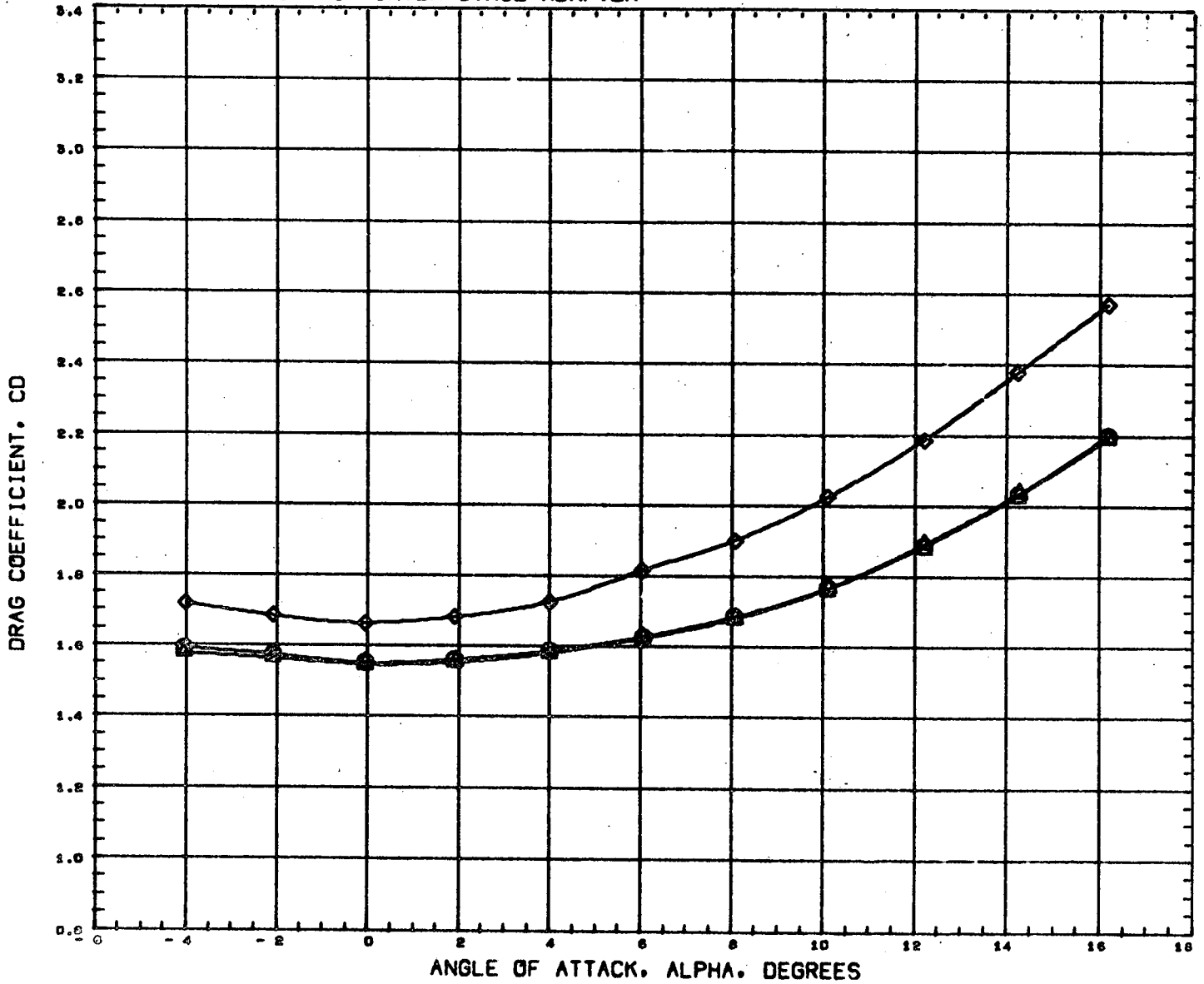
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SREF 0.9350 80. IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.462

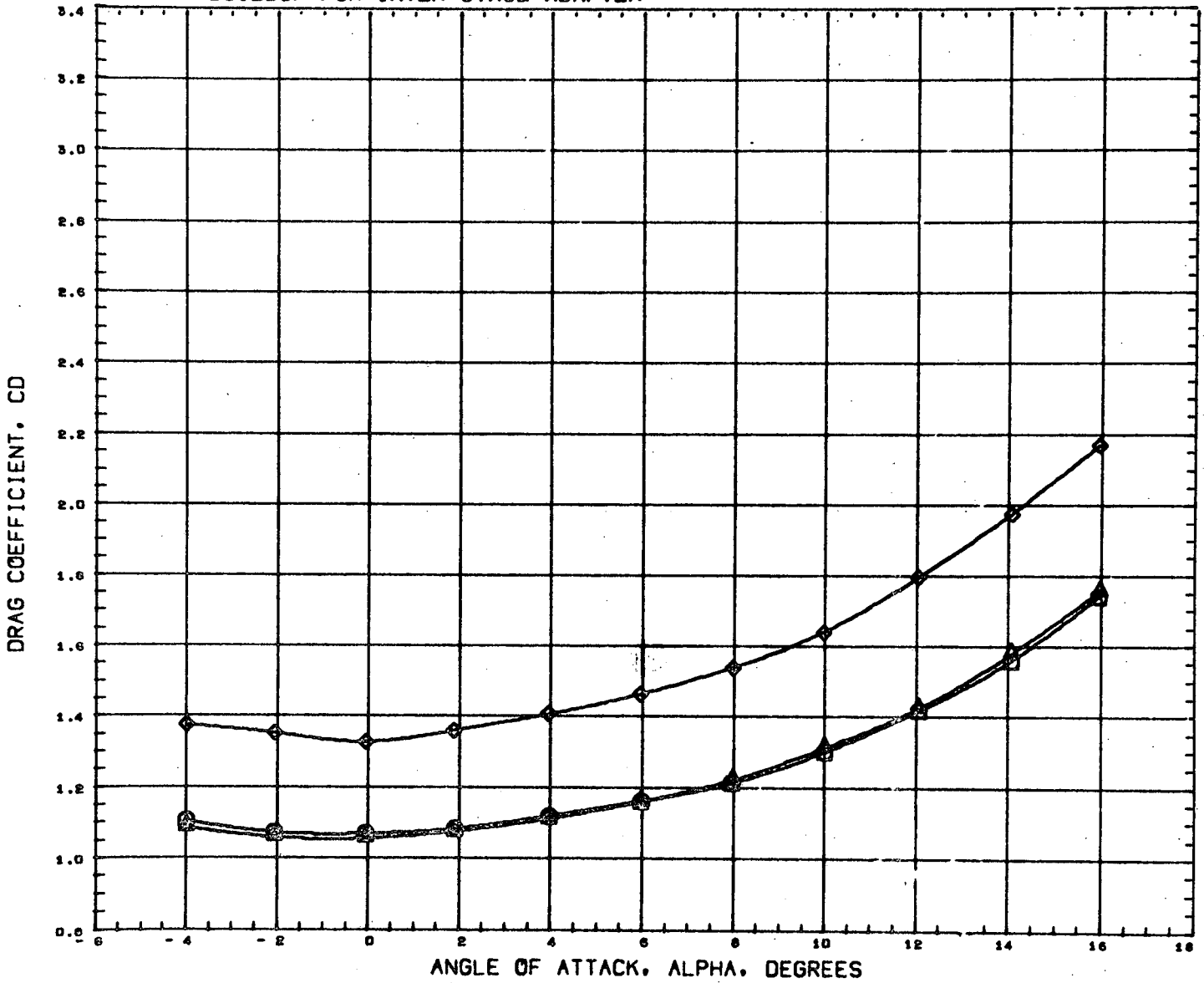
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SREF 0.9350 89. IN.
(D5014D)	MSFC 512 GD/C .003368 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003368 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

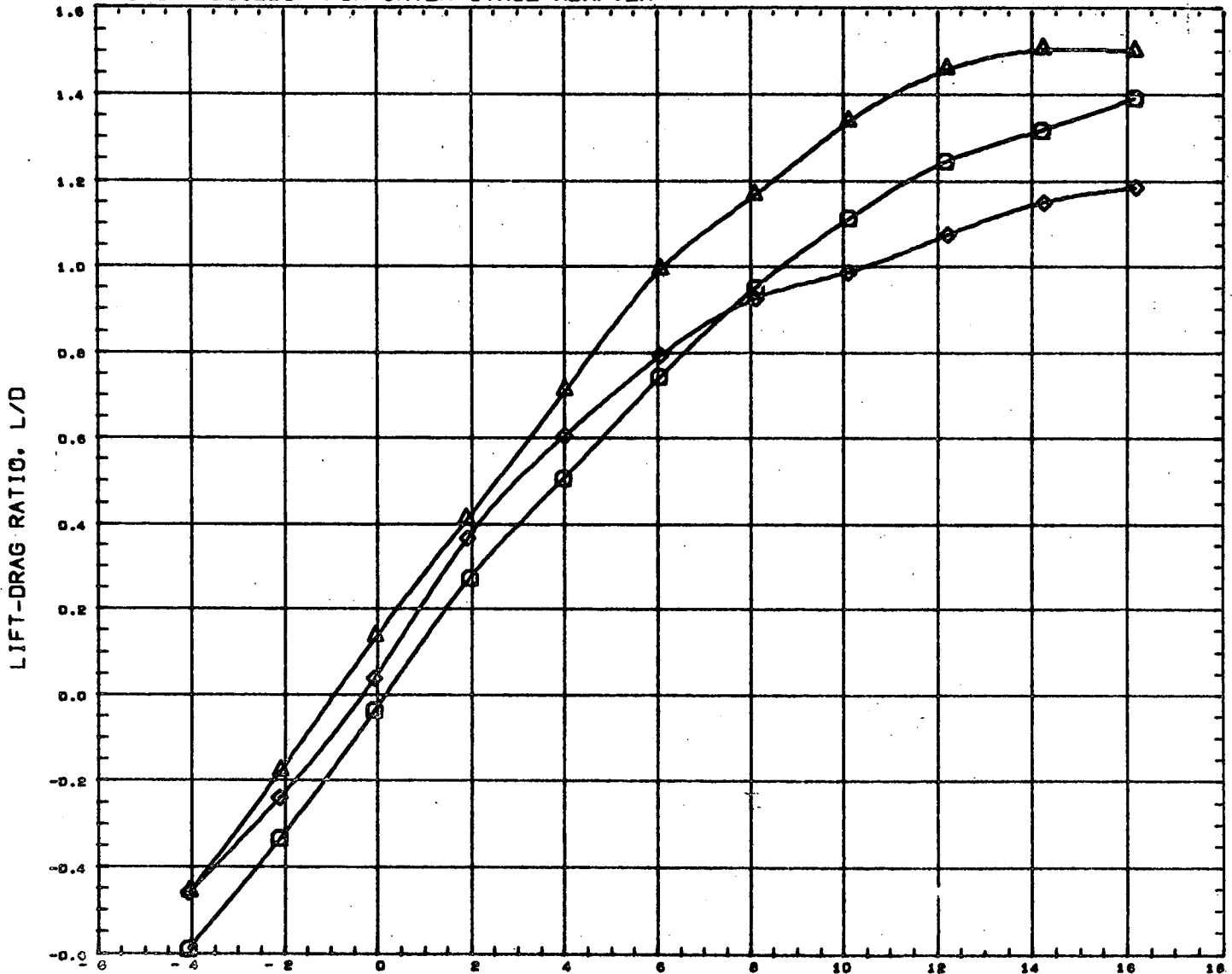
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SRFF 0.9350 SQ. IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

COMPONENT BUILDUP FOR INTER STAGE ADAPTER

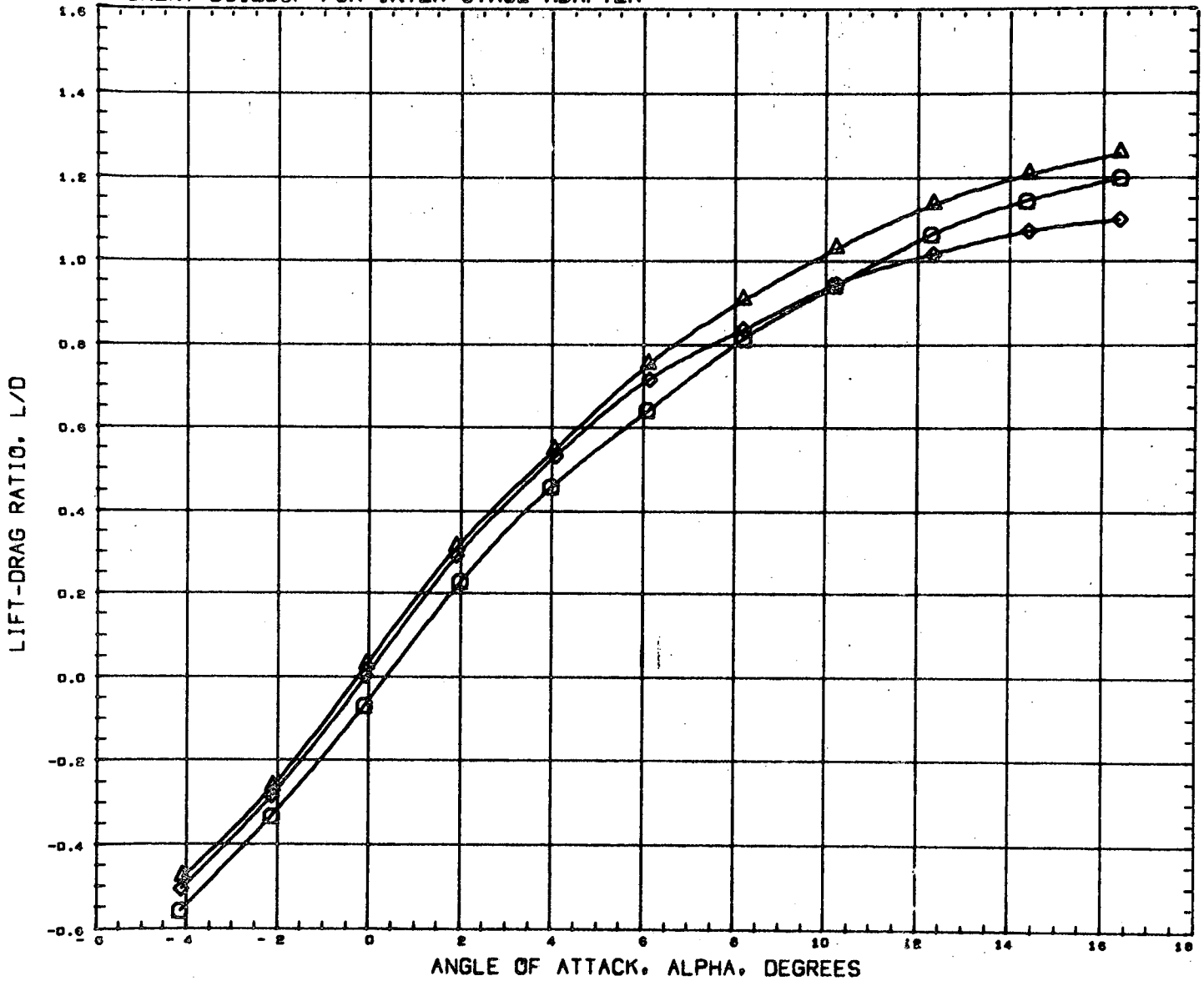


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SR_F 0.9550 SQ. IN.
(D90140)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.596

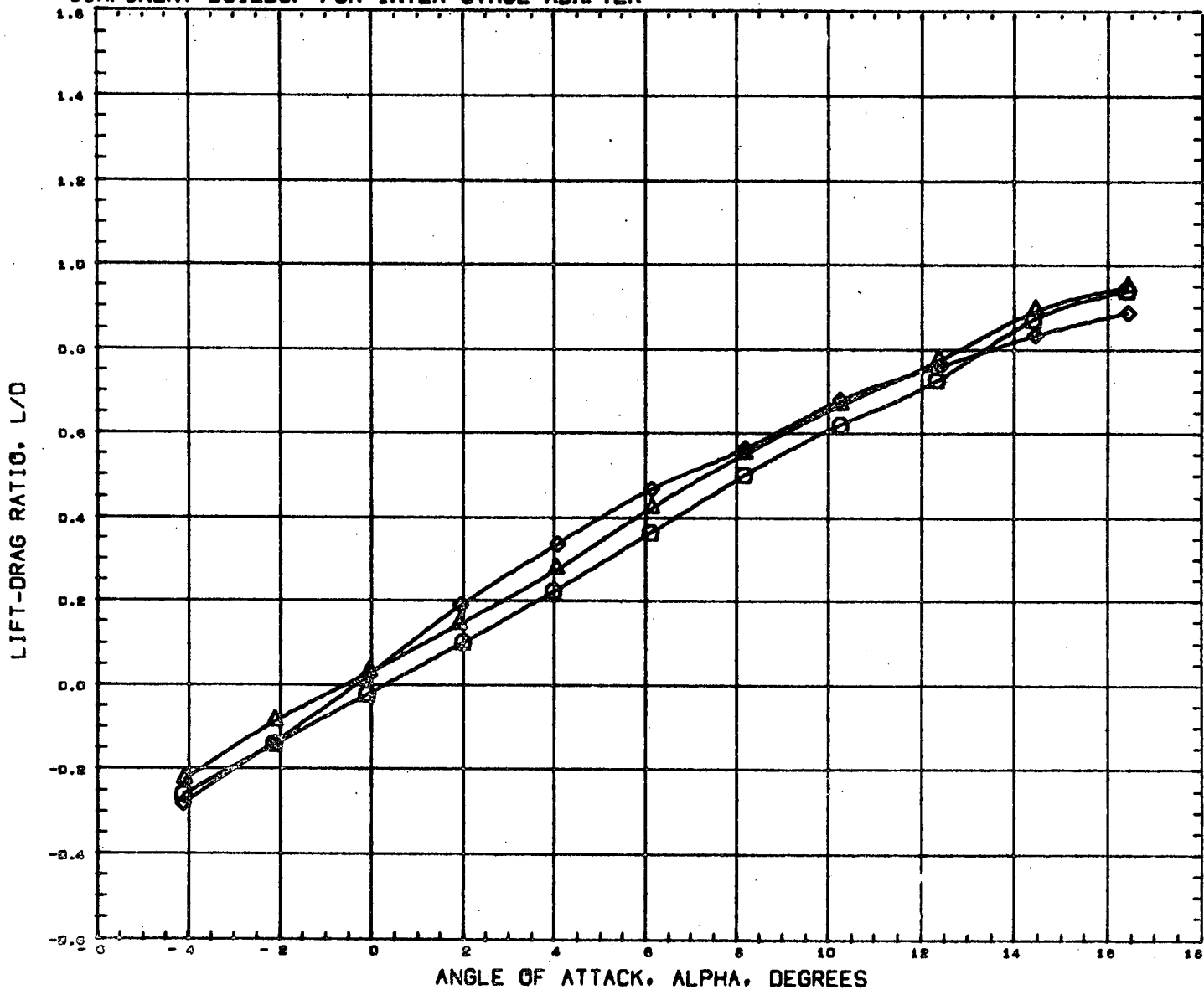
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.300	SRLF 0.9350 SQ. IN.
(D50140)	M8FC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.300	LREF 6.2310 INCHES
(D50150)	M8FC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.300	BREF 1.0910 INCHES XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 0.900

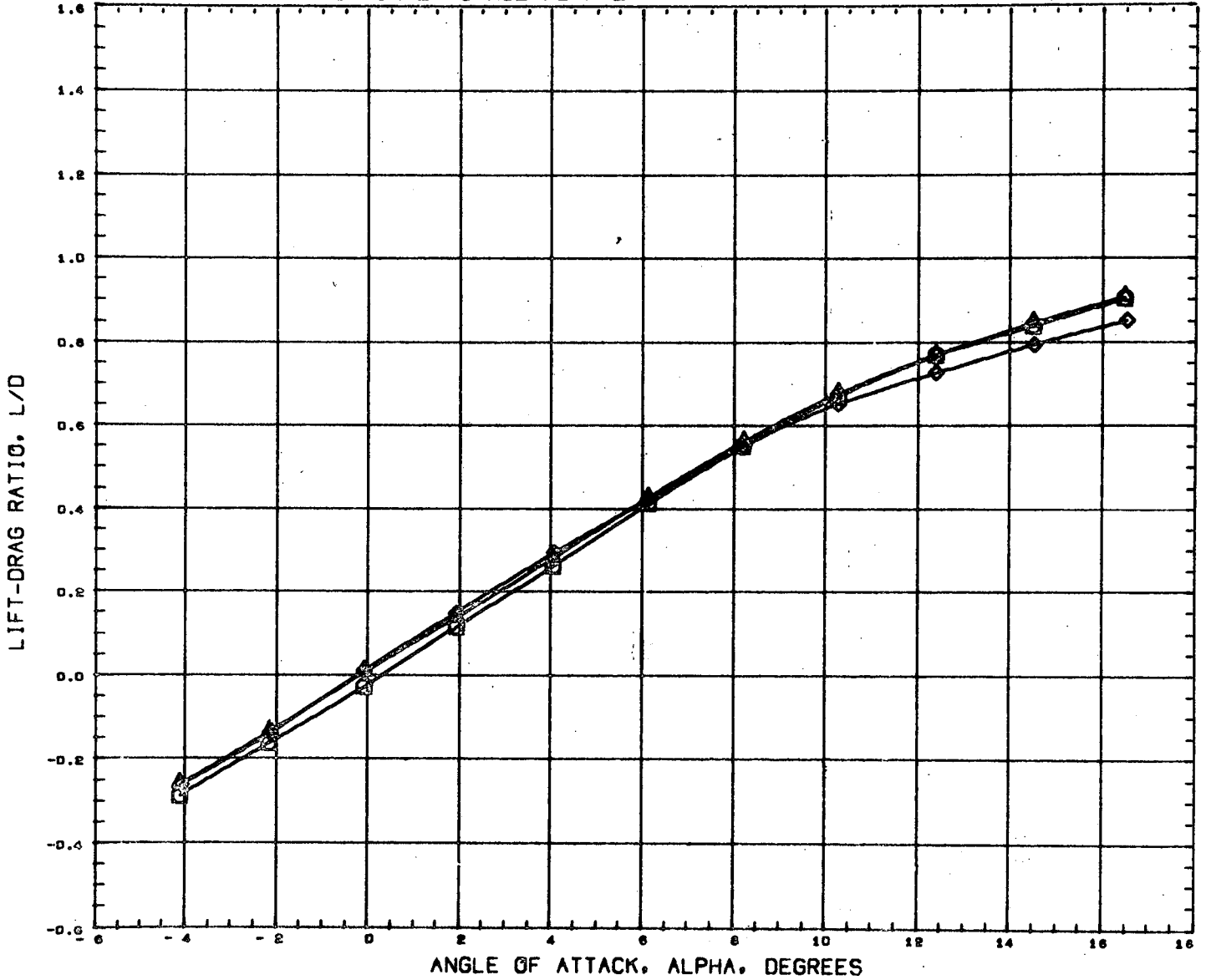
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHI000	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001C)	MBFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SRLT 0.9350 SQ. IN.
(D8014D)	MBFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9015D)	MBFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.101

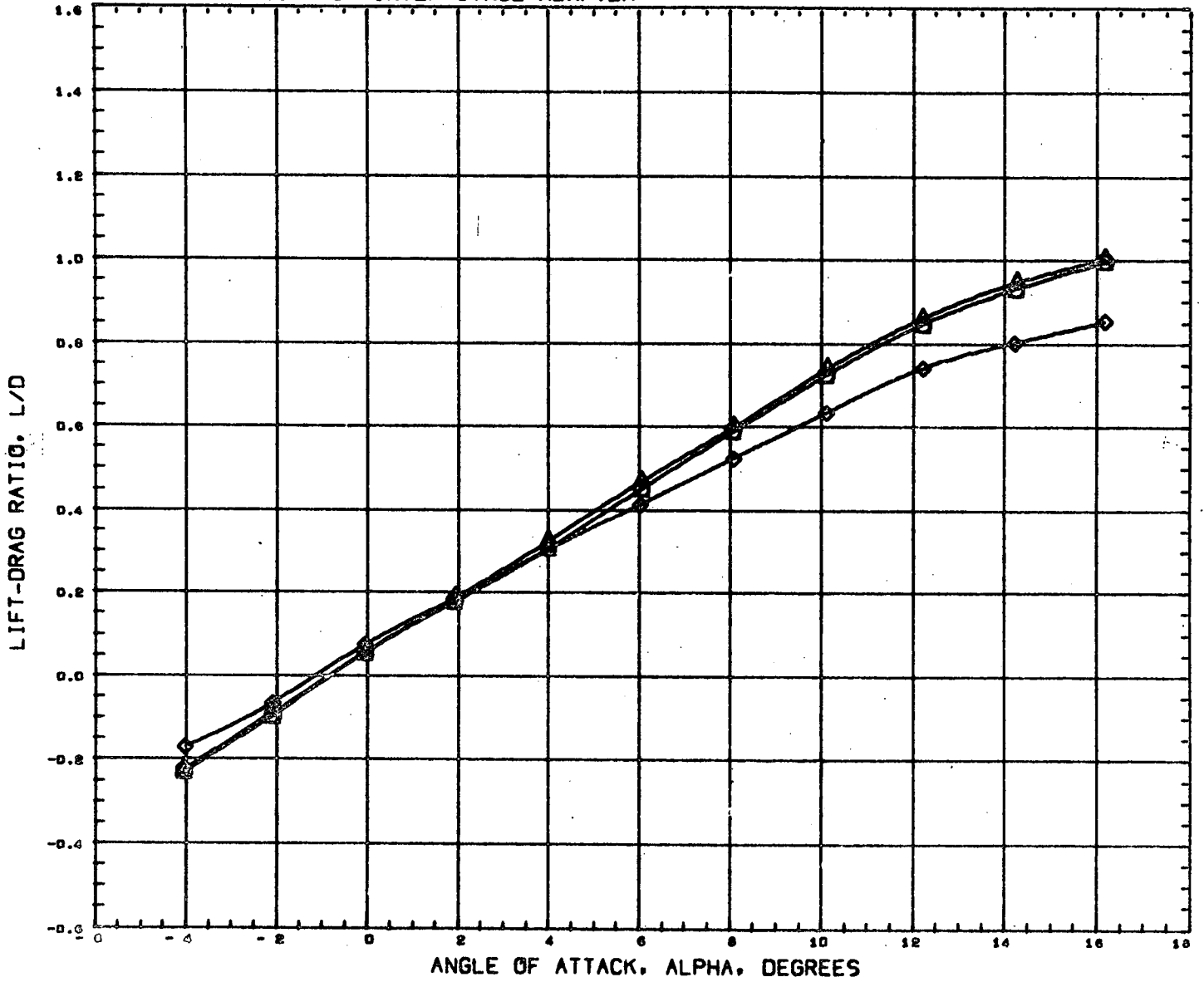
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RELAP	REFERENCE INFORMATION
(E5001C)	M5FC 512 GD/C .003966 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50140)	M5FC 512 GD/C .003966 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	M5FC 512 GD/C .003966 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XHRP 3.7920 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.462

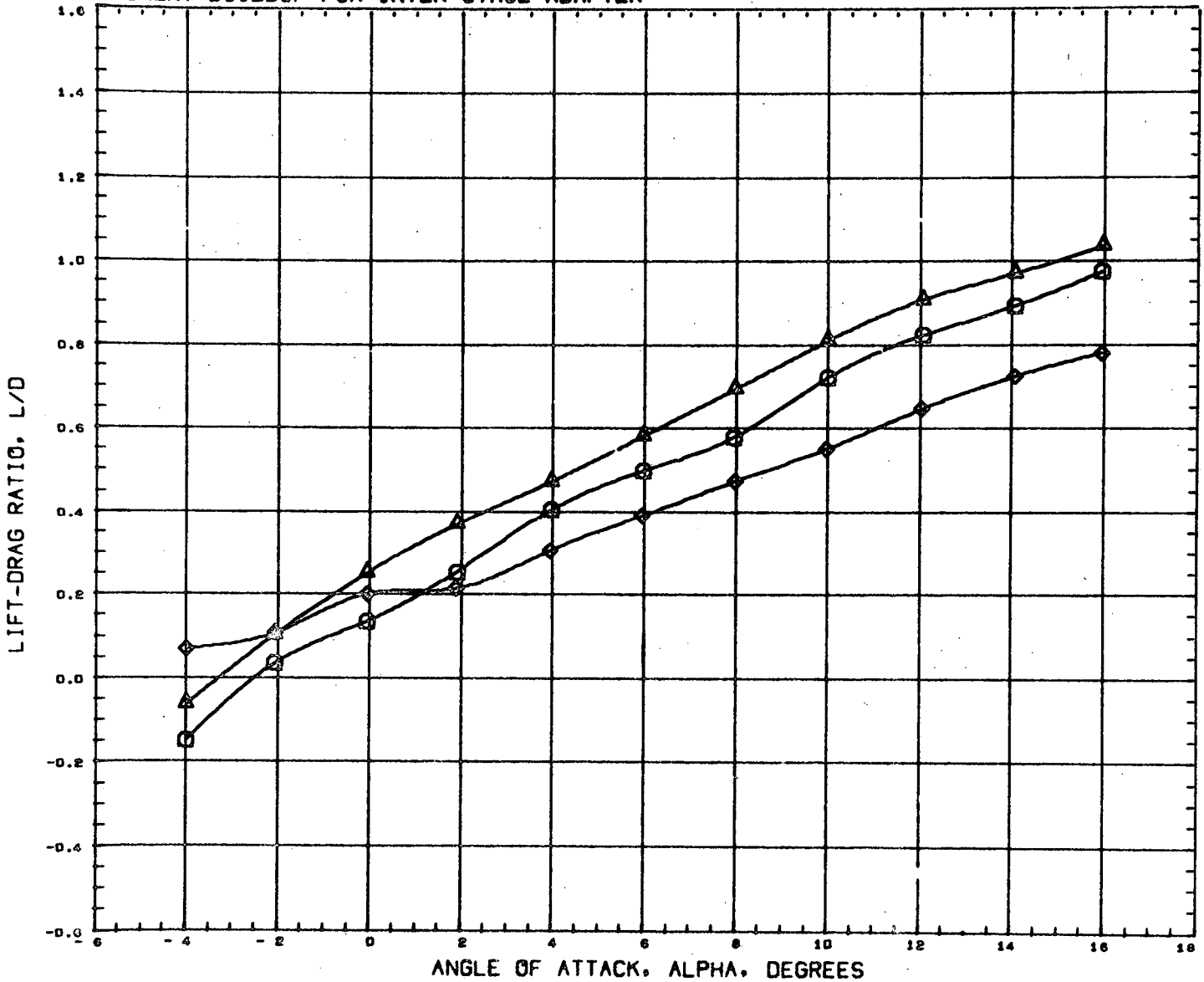
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	6REF 0.9350 80. IN.
(D50140)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMR ⁰ 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

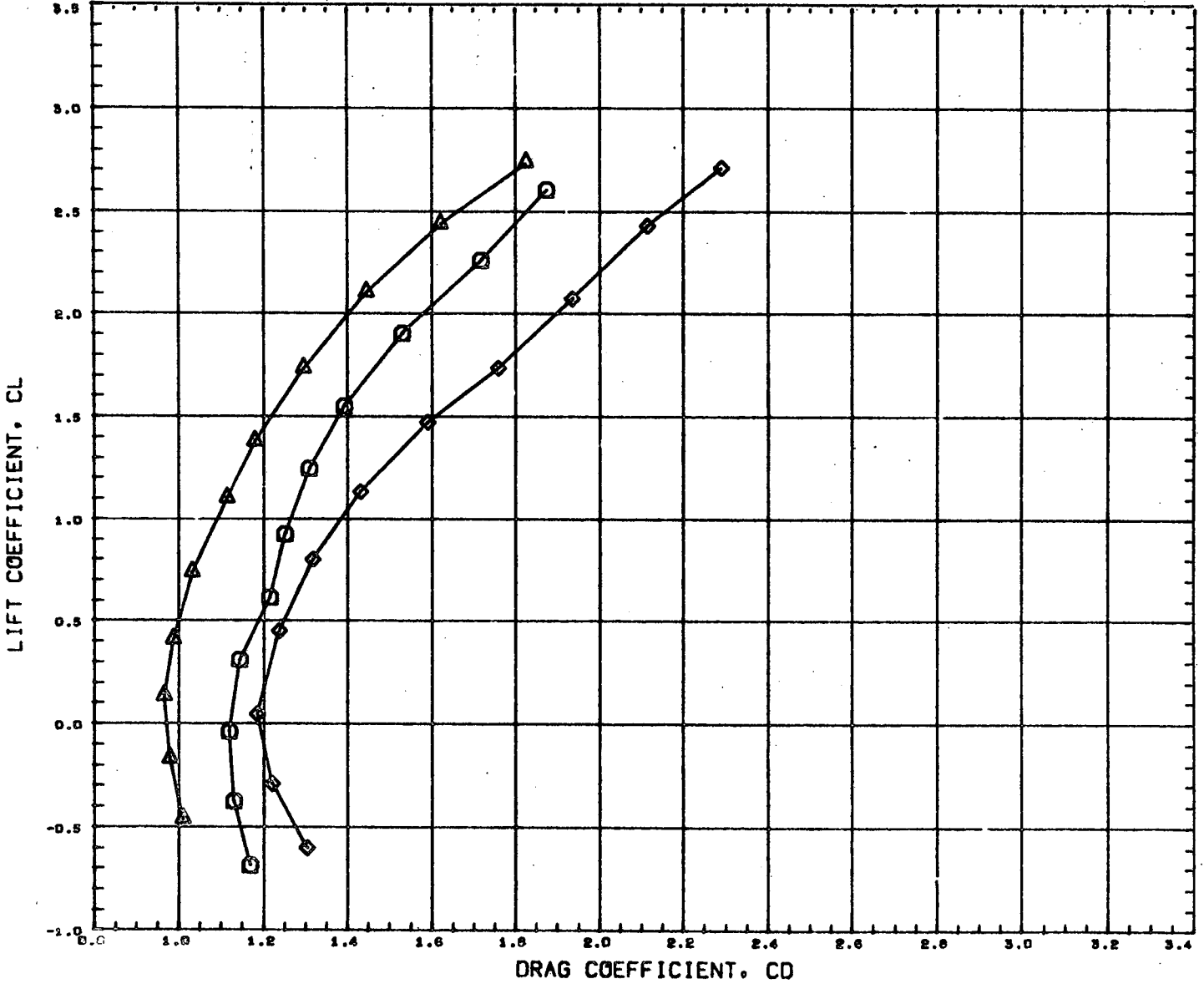
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER 834R6T10	0.000	0.000	0.000	0.000	SRCP 0.9350 SQ. IN.
(D50140)	MSFC 512 GD/C .003366 BOOSTER 835R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER 836R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.958

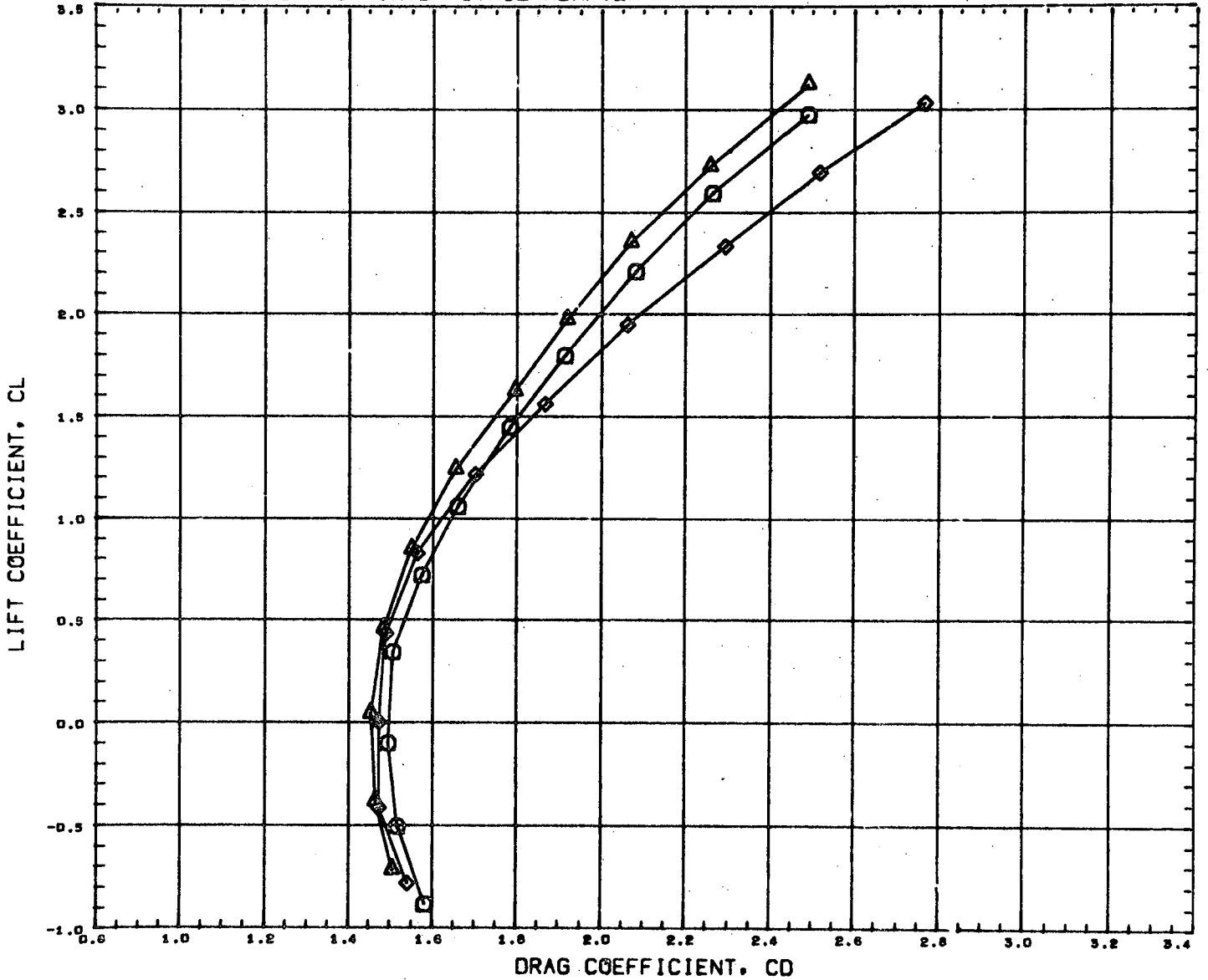
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D9014D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9015D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMR 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.998

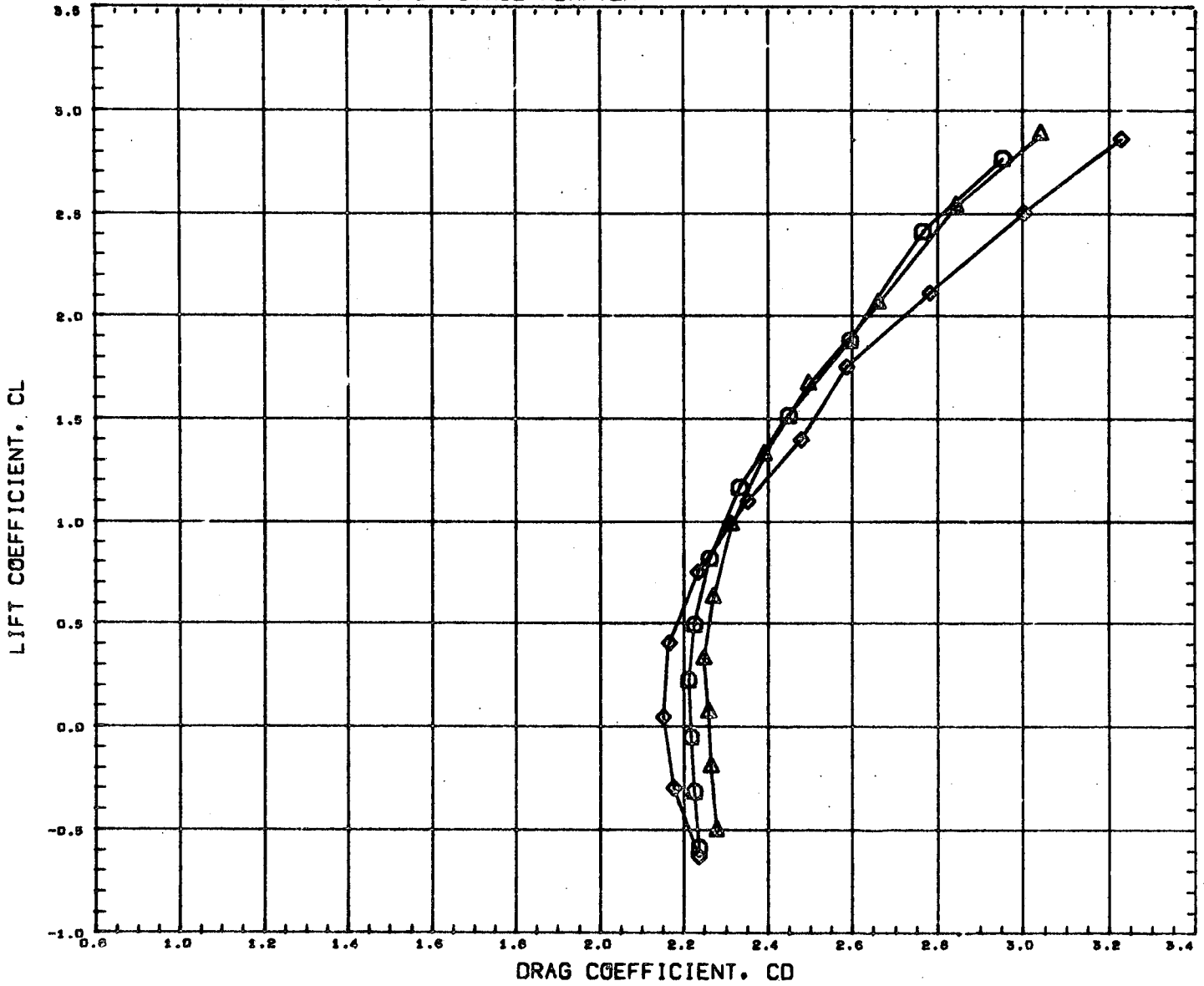
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50140)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

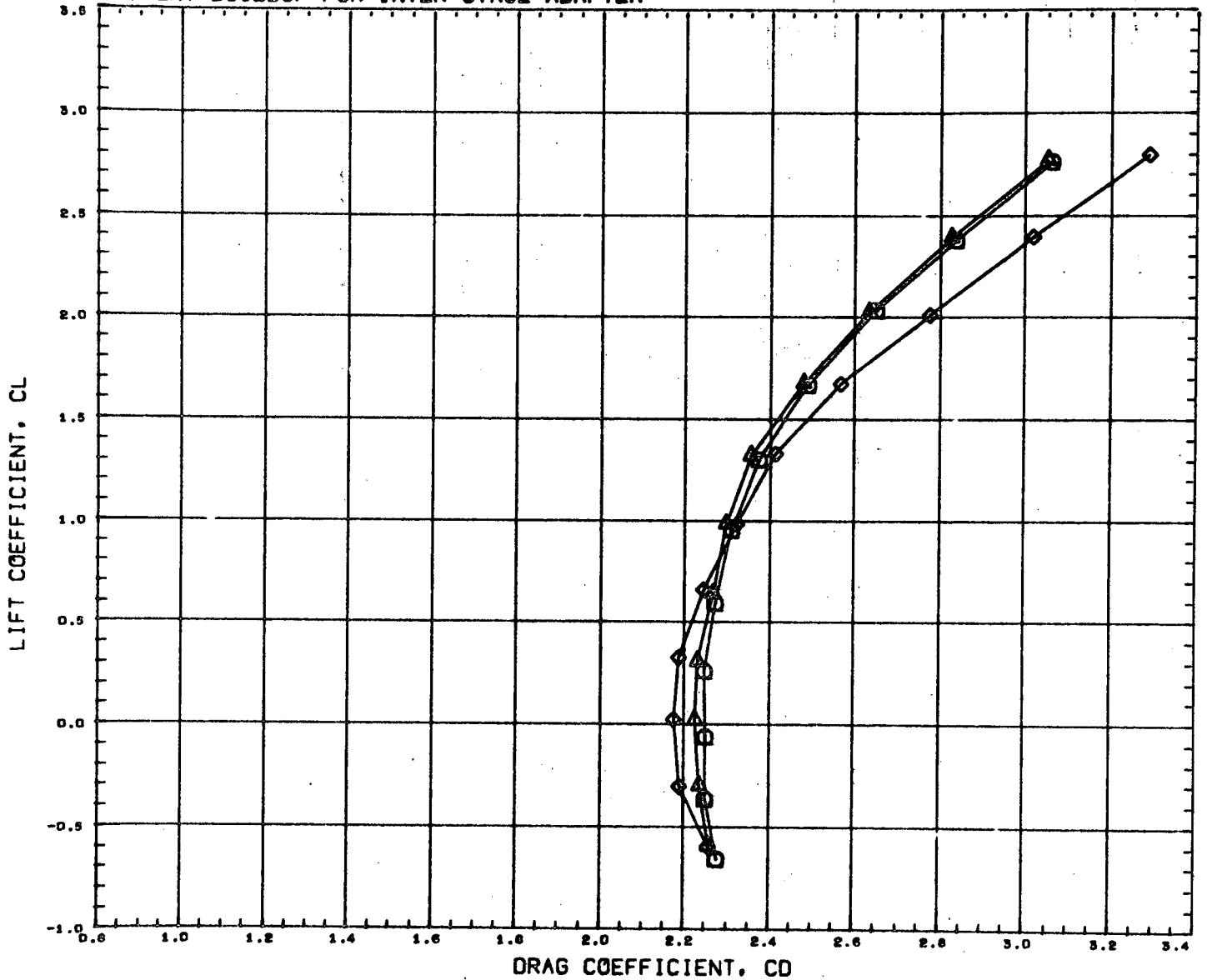
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SFCF 0.9350 SQ. IN.
(D50140)	MSFC 512 GD/C .003336 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.101

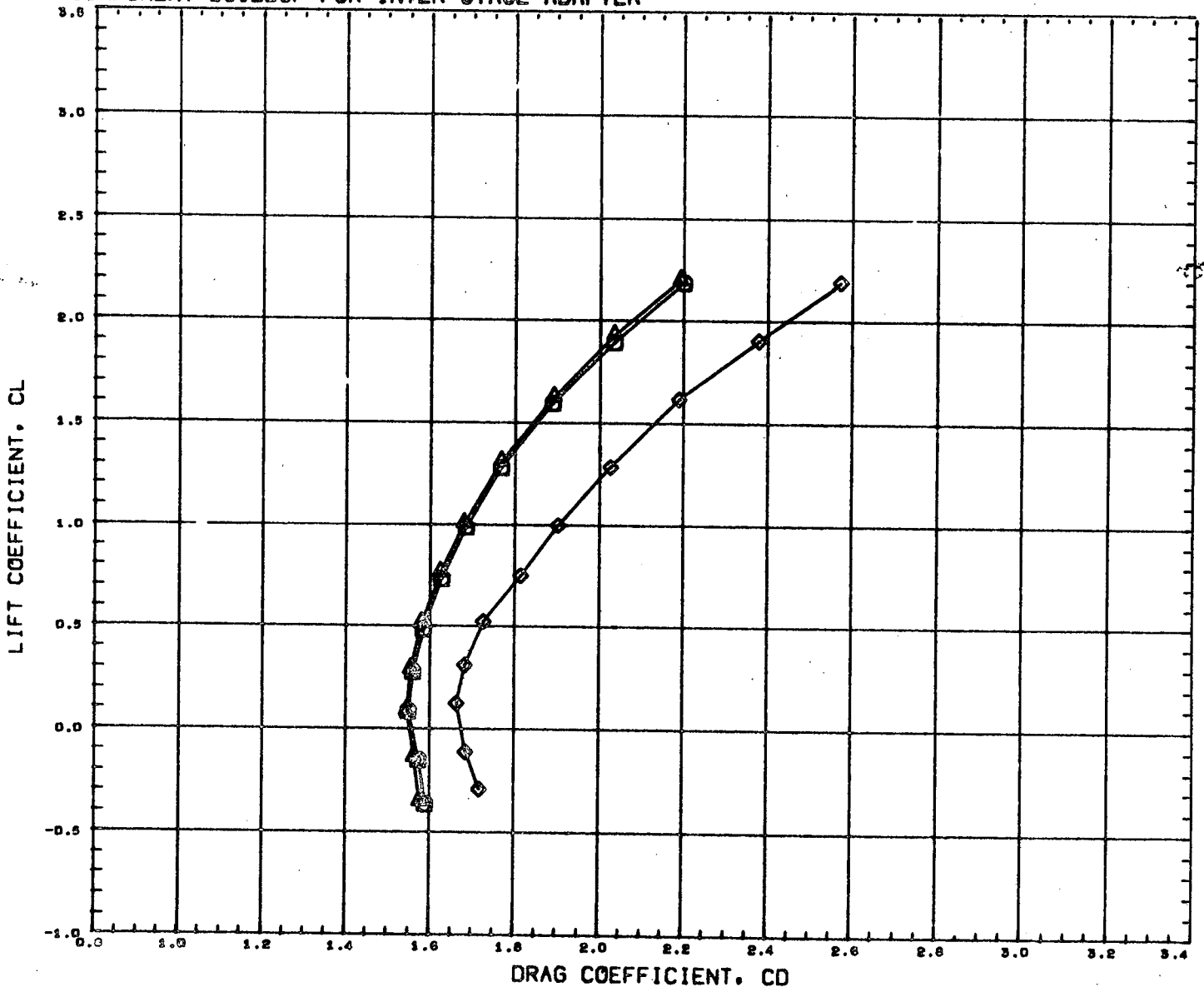
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION		BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E8001C)	MSFC 512 GD/C .003366 BOOSTER	834R6T10	0.000	0.000	0.000	0.000	SRLF	0.9350 SQ. IN.
(D50140)	MSFC 512 GD/C .003366 BOOSTER	833R6T10	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER	836R6T10	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
							XMRP	3.7920 INCHES
							YMRP	0.0000 INCHES
							ZMRP	0.0000 INCHES
							SCALE	0.0034

HACH 1.462

COMPONENT BUILDUP FOR INTER STAGE ADAPTER

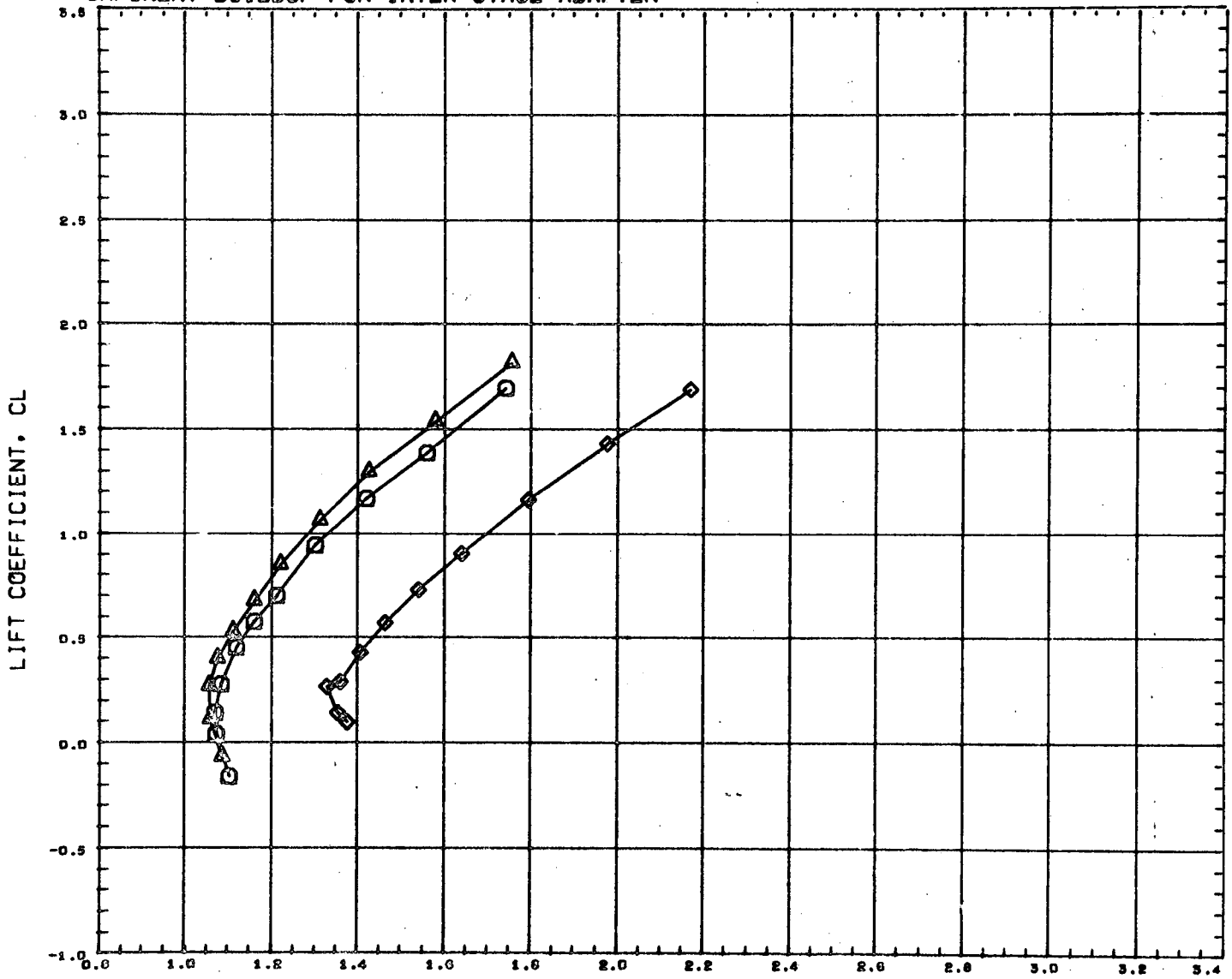


DRAG COEFFICIENT, CD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SACF 0.9350 80. IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0810 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

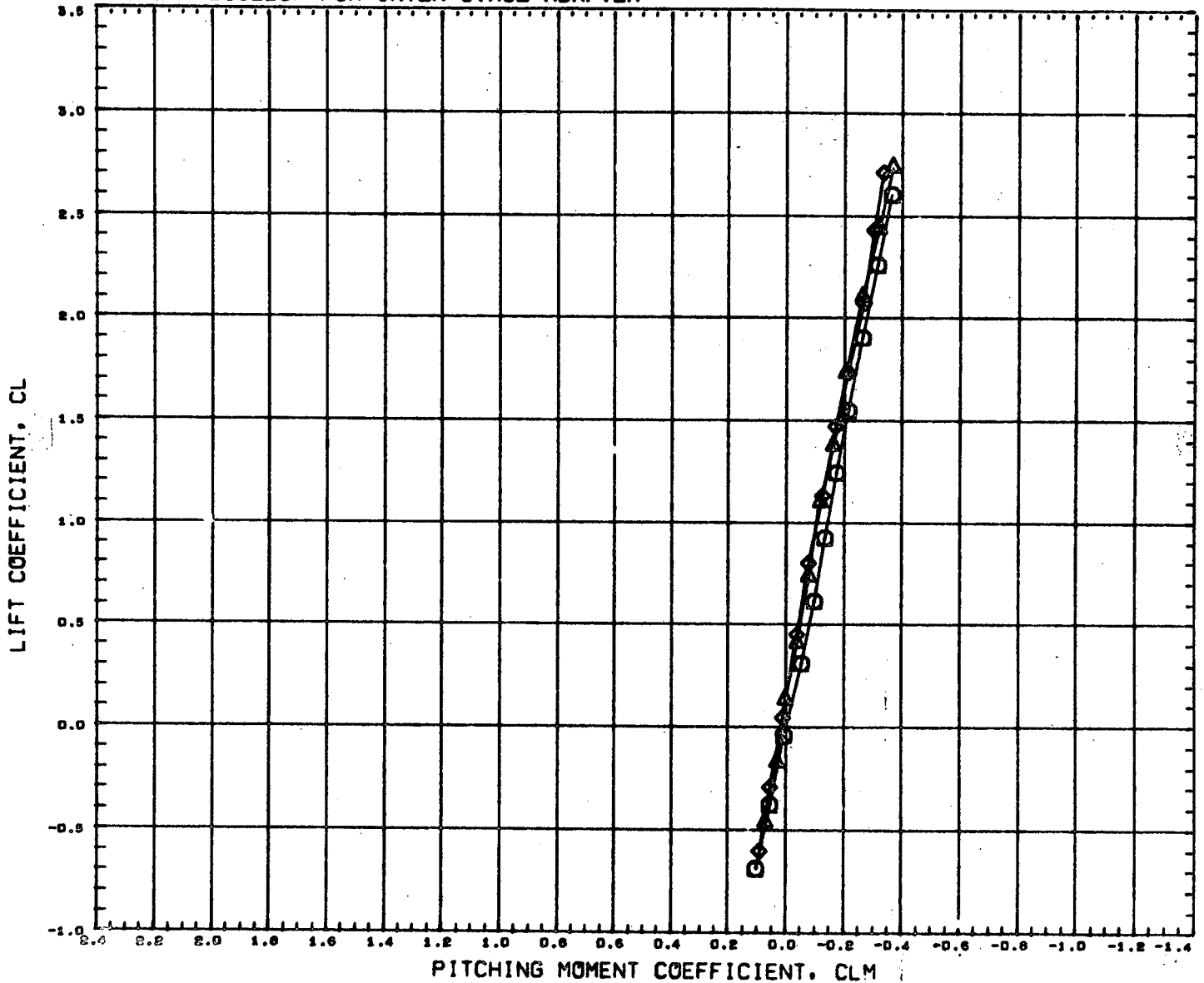
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5001C)	△	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	REF	0.9350 SQ. IN.
(D50140)	○	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50150)	◇	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
							XMRP	3.7920 INCHES
							YMRP	0.0000 INCHES
							ZMRP	0.0000 INCHES
							SCALE	0.0034

MACH 4.959

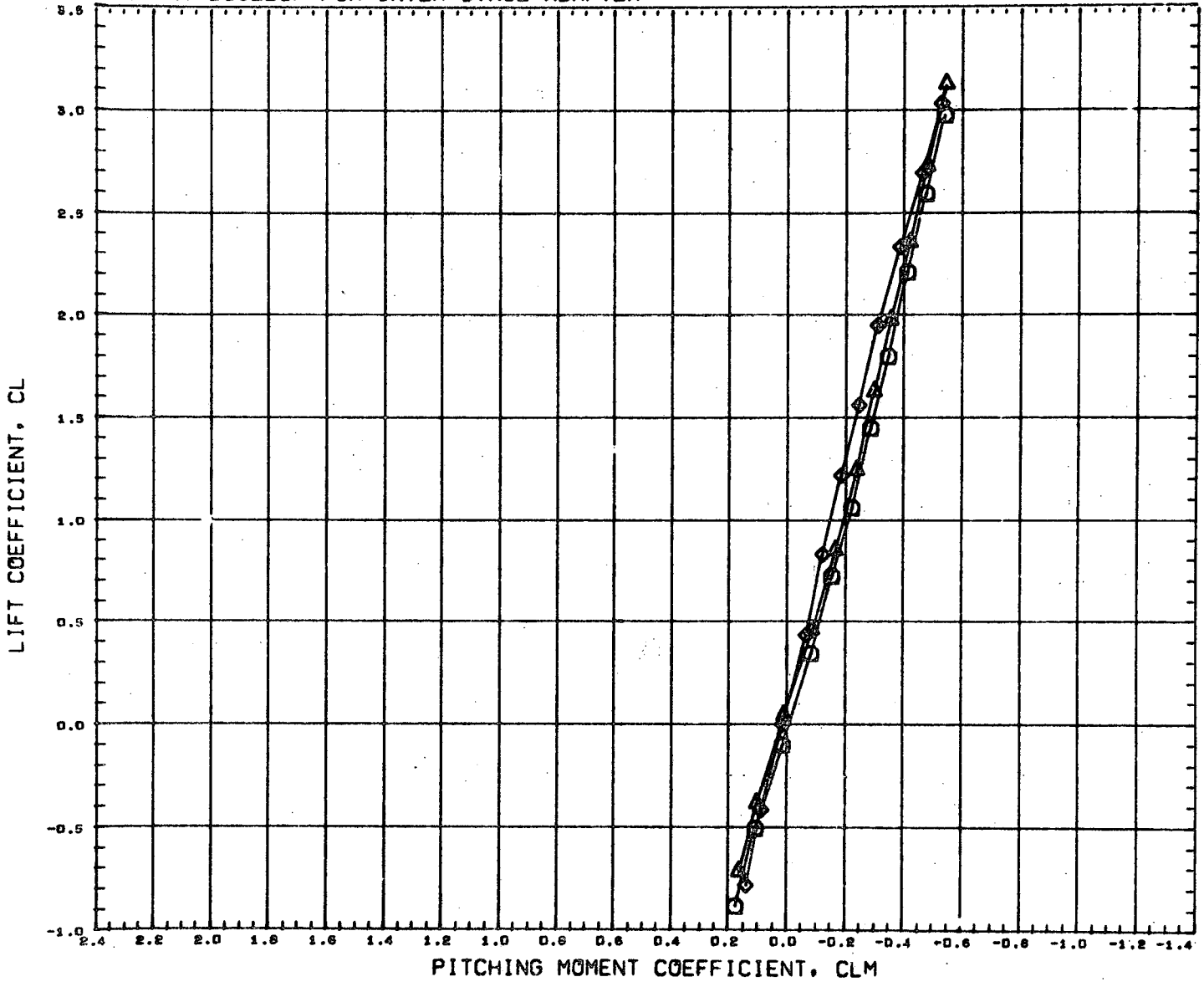
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SR.F 0.9350 89. IN.
(D50140)	MSFC 512 GD/C .003369 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.598

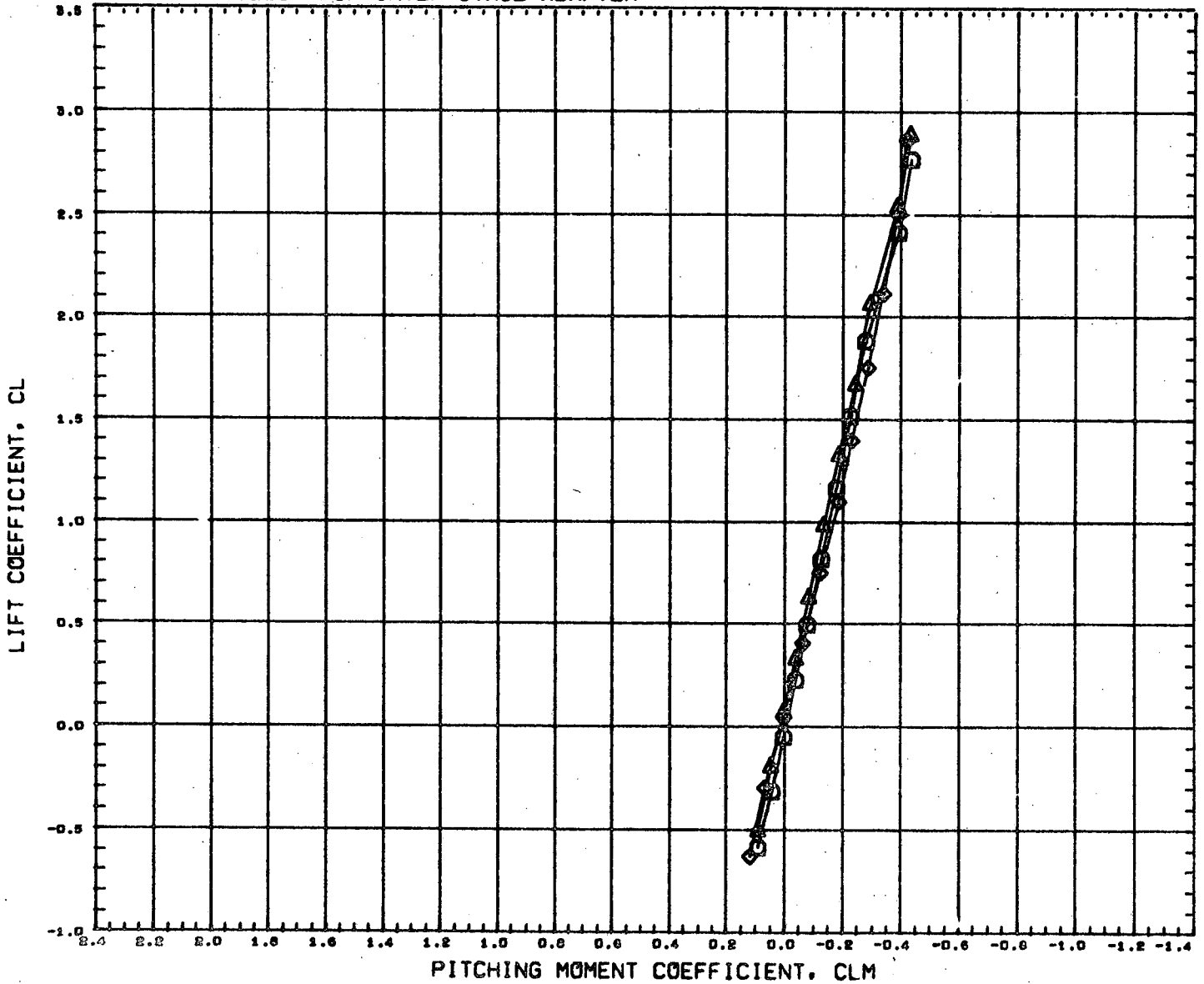
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SR_LF 0.9350 SQ.IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

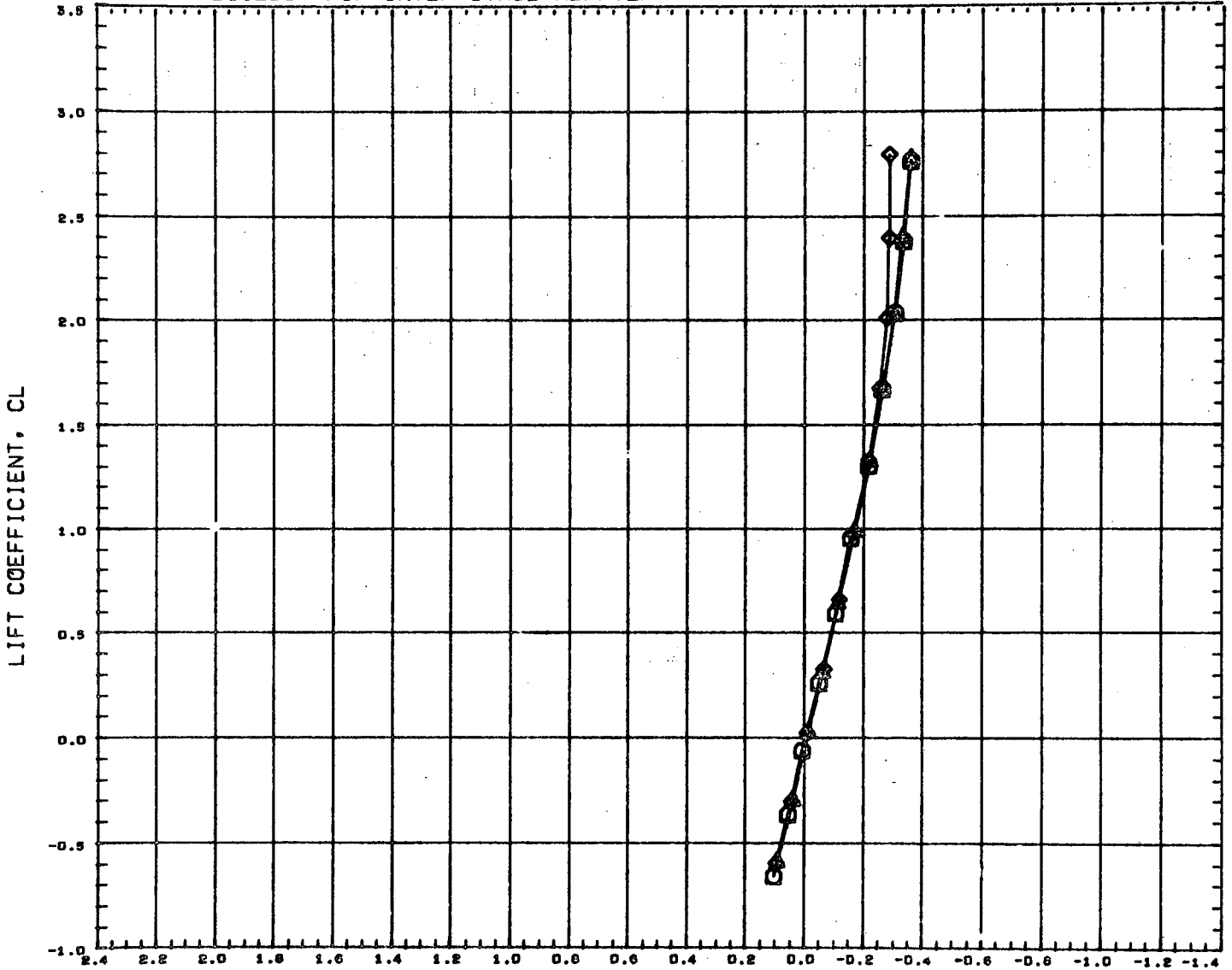
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SNRF	0.9350 80.IN.
(D50140)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.101

COMPONENT BUILDUP FOR INTER STAGE ADAPTER

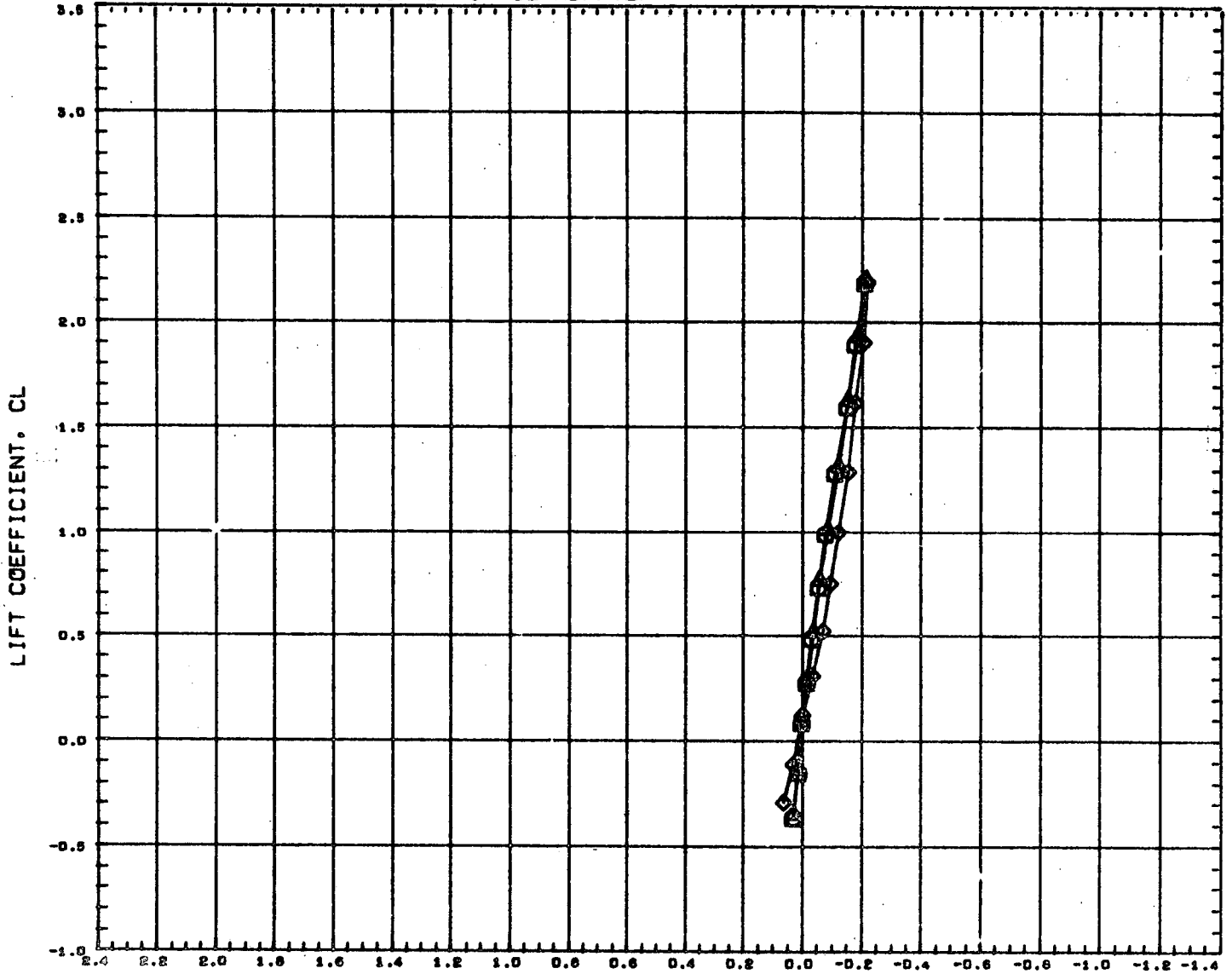


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER 834R6T10	0.000	0.000	0.000	0.000	SRLF 0.9350 80.IN.
(D50140)	MSFC 512 GD/C .003366 BOOSTER 835R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER 836R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.462

COMPONENT BUILDUP FOR INTER STAGE ADAPTER

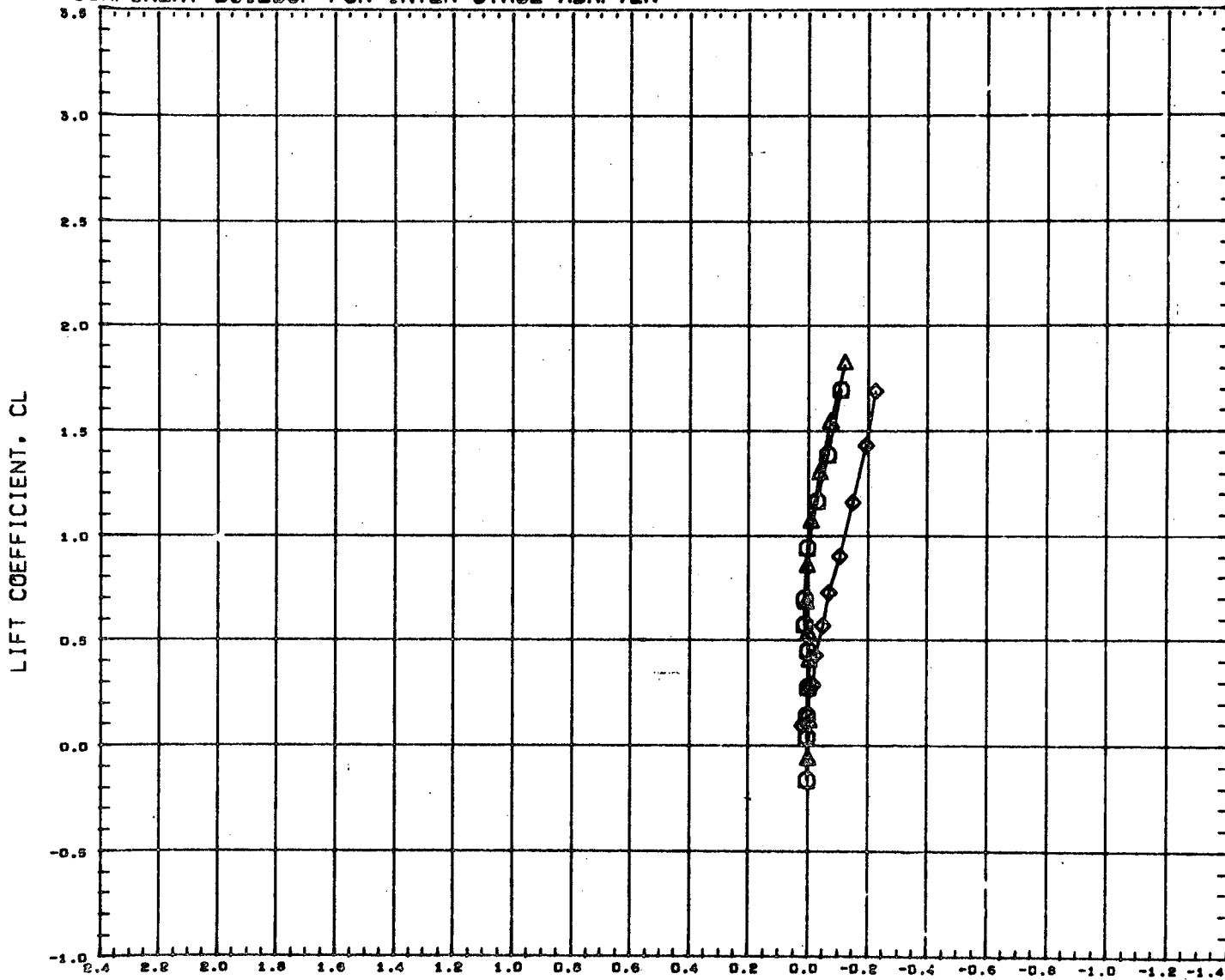


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001C)	MSFC 512 GD/C .003306 BOOSTER	0.000	0.000	0.000	0.000	SR LF 0.9350 80. IN.
(D90140)	MSFC 512 GD/C .003966 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90180)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

COMPONENT BUILDUP FOR INTER STAGE ADAPTER

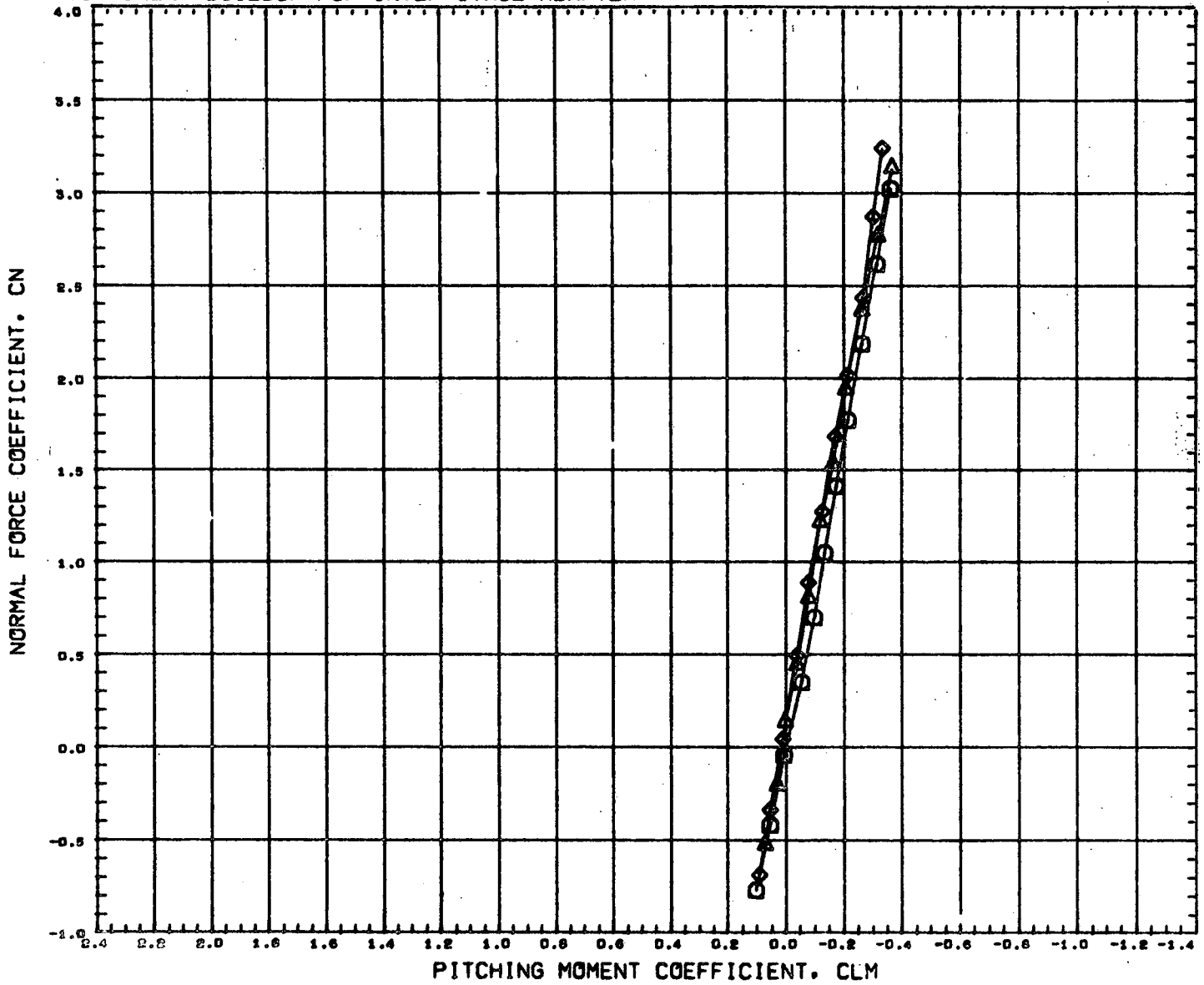


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D90140)	MSFC 512 GD/C .003366 BOOSTER B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90150)	MSFC 512 GD/C .003366 BOOSTER B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.950

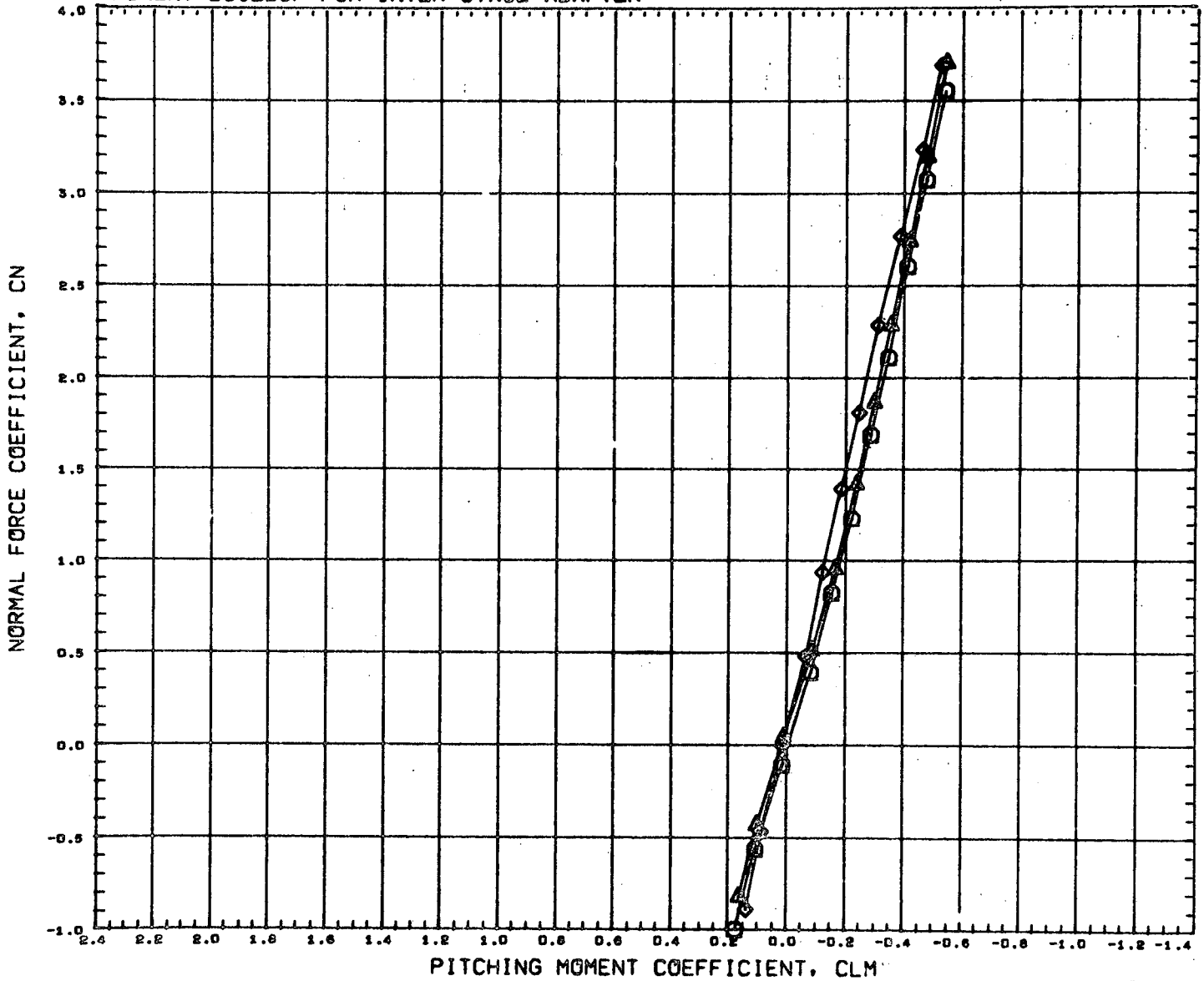
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SREF 0.9350 30.IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.598

COMPONENT BUILDUP FOR INTER STAGE ADAPTER

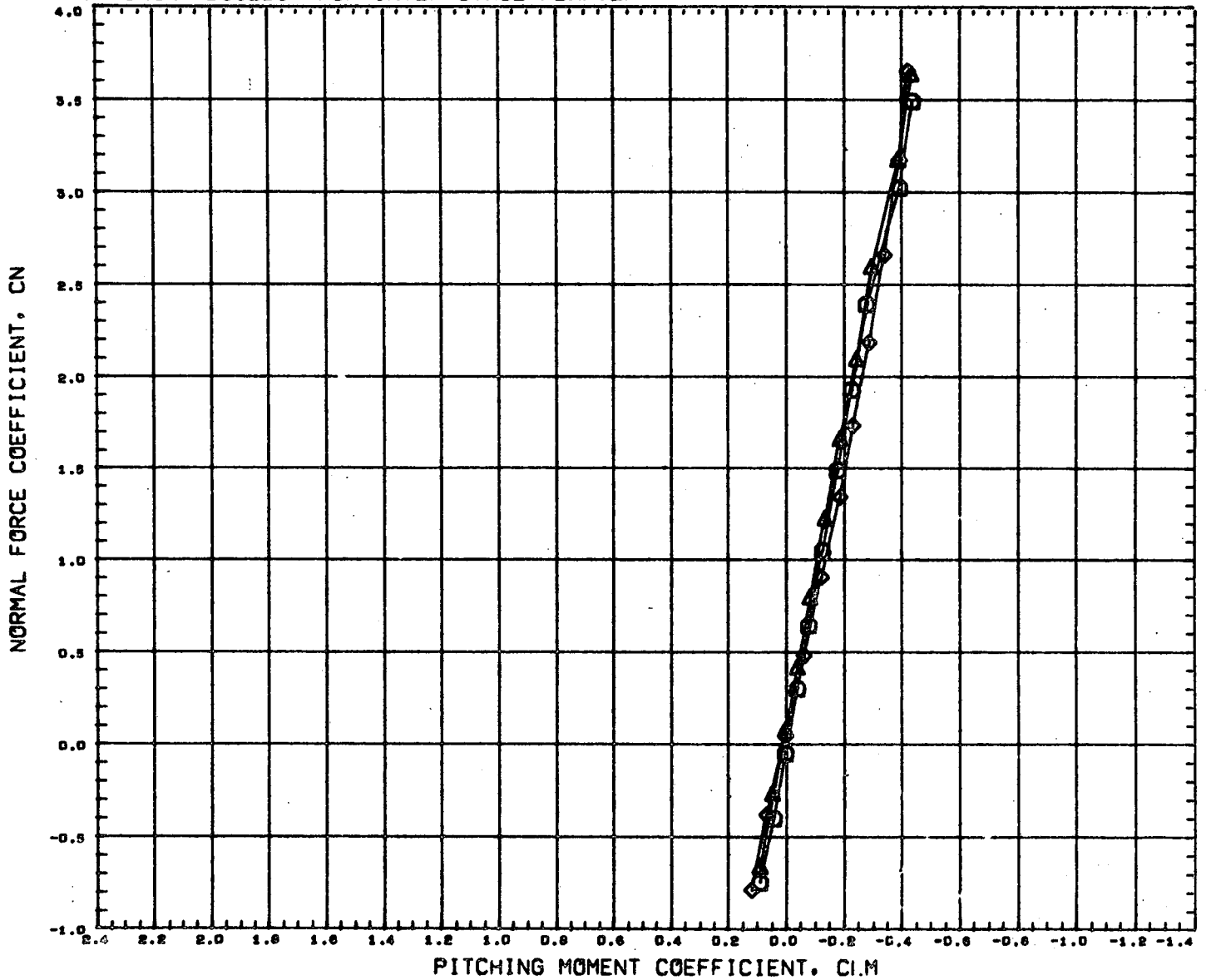


PITCHING MOMENT COEFFICIENT, CLM

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5001C)	○	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SRP	0.9350 SQ. IN.
(D5014D)	△	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D5019D)	◇	M8FC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
							XMRF	3.7920 INCHES
							YMRF	0.0000 INCHES
							ZMRF	0.0000 INCHES
							SCALE	0.0034

MACH 0.900

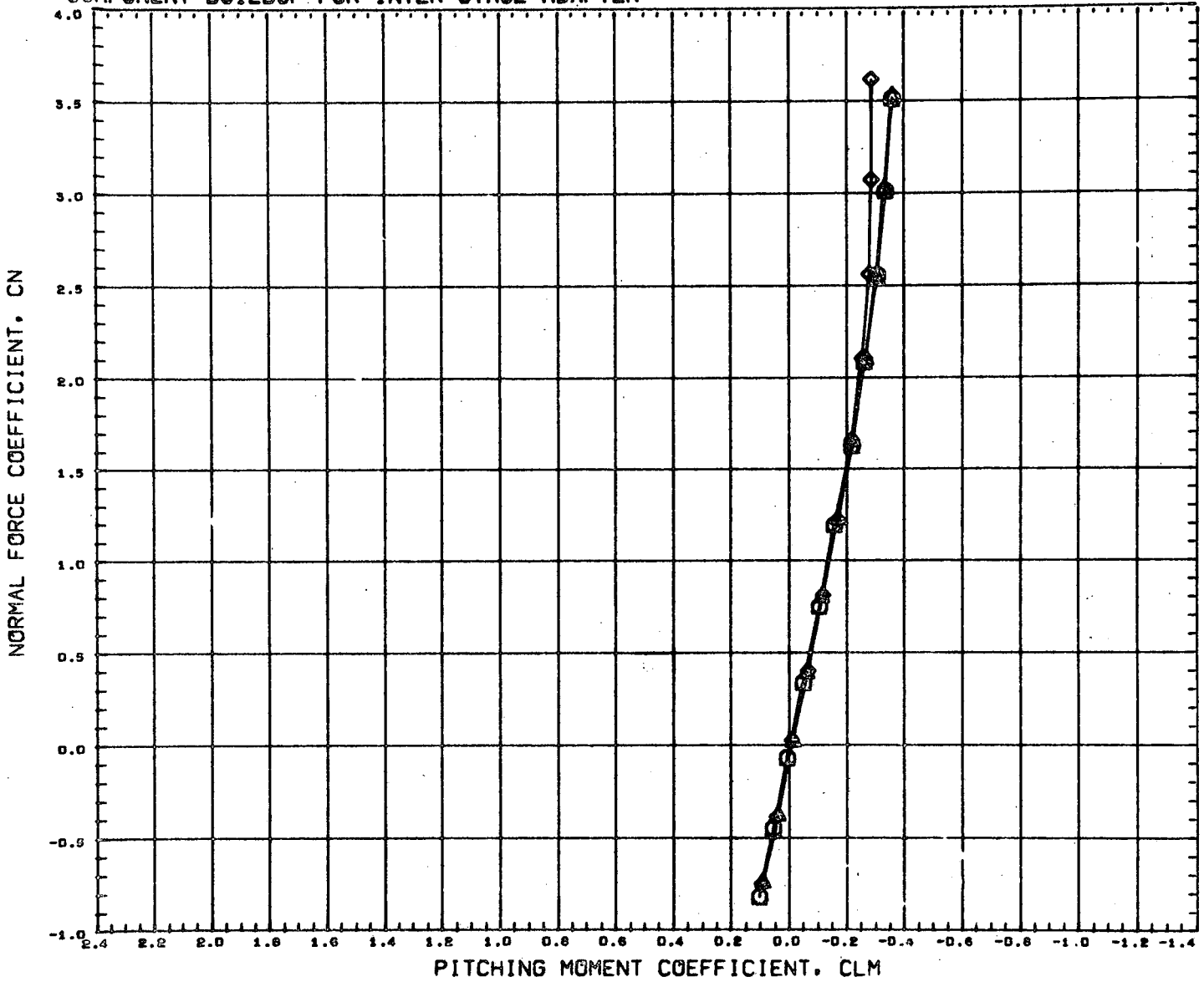
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9001C)	MSFC 512 GD/C .003306 BOOSTER	0.000	0.000	0.000	0.000	CREF 0.9350 SQ. IN.
(D9014D)	MSFC 512 GD/C .003306 BOOSTER	0.000	0.000	0.000	0.000	LREF 0.2510 INCHES
(D9015D)	MSFC 512 GD/C .003306 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.101

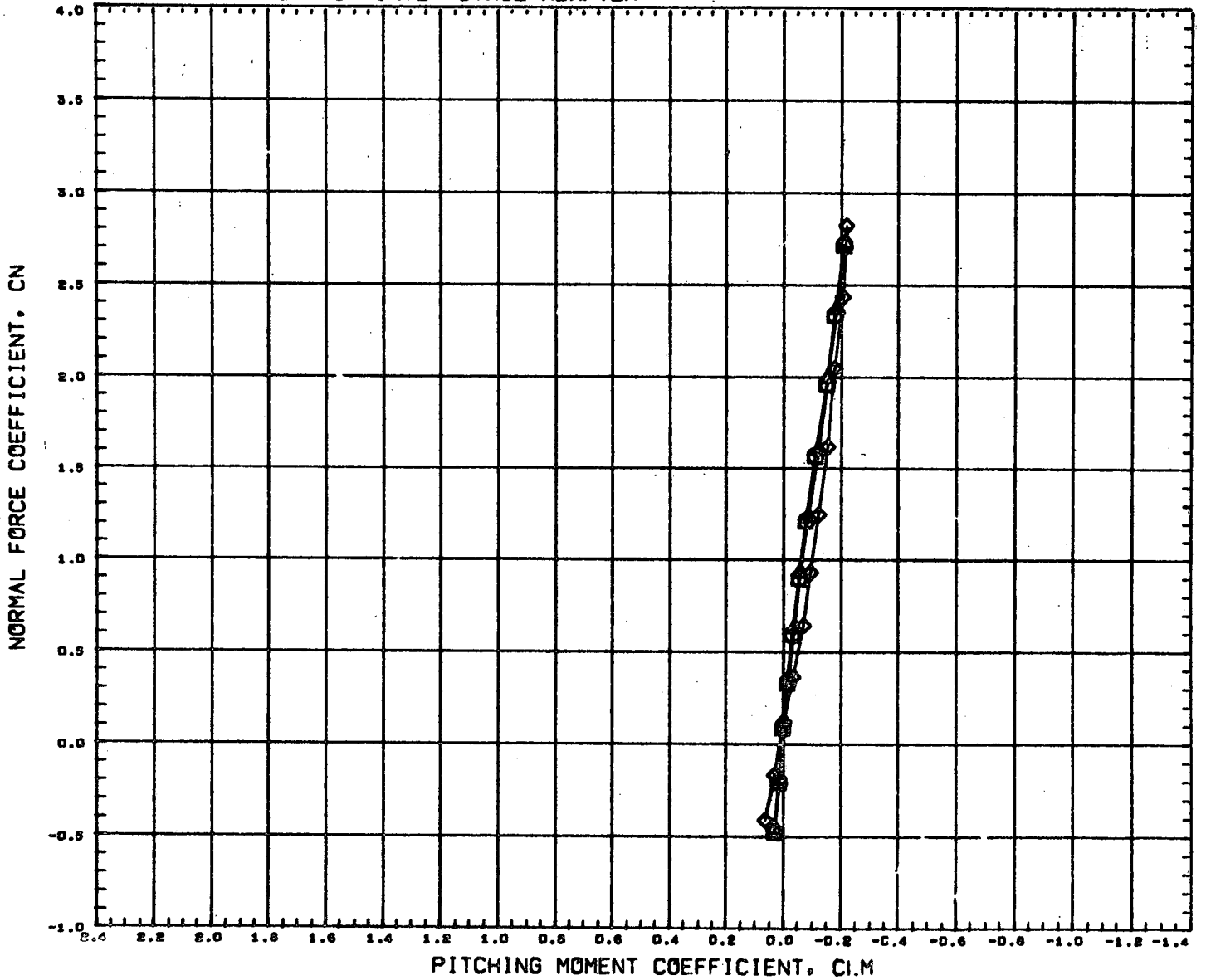
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D5014D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5015D)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.462

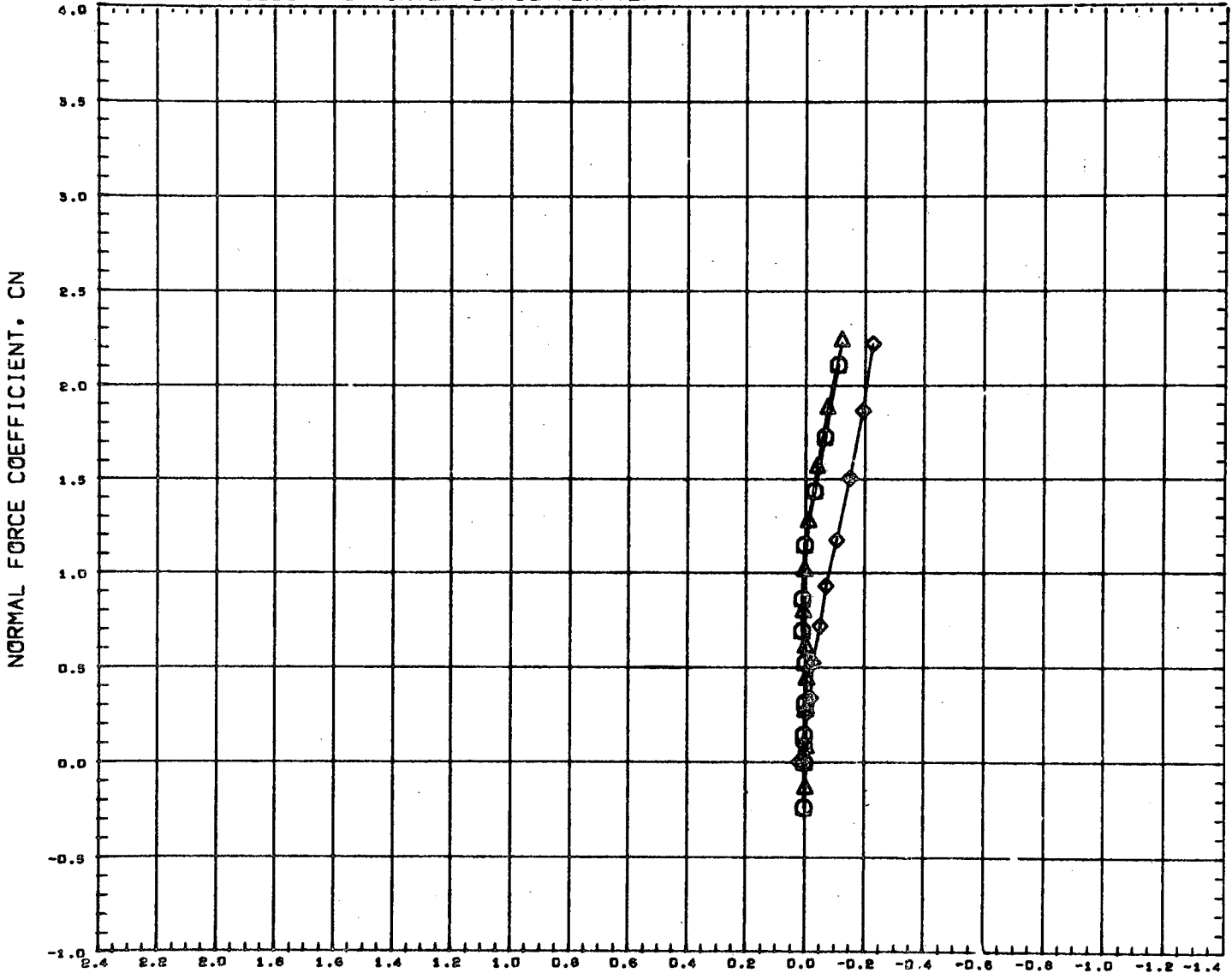
COMPONENT BUILDUP FOR INTER STAGE ADAPTER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003300 BOOSTER	0.000	0.000	0.000	0.000	ETEF 0.9350 90. IN.
(D50140)	MSFC 512 GD/C .003300 BOOSTER	0.000	0.000	0.000	0.000	LNEF 6.2310 INCHES
(D50150)	MSFC 512 GD/C .003366 BOOSTER	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

COMPONENT BUILDUP FOR INTER STAGE ADAPTER

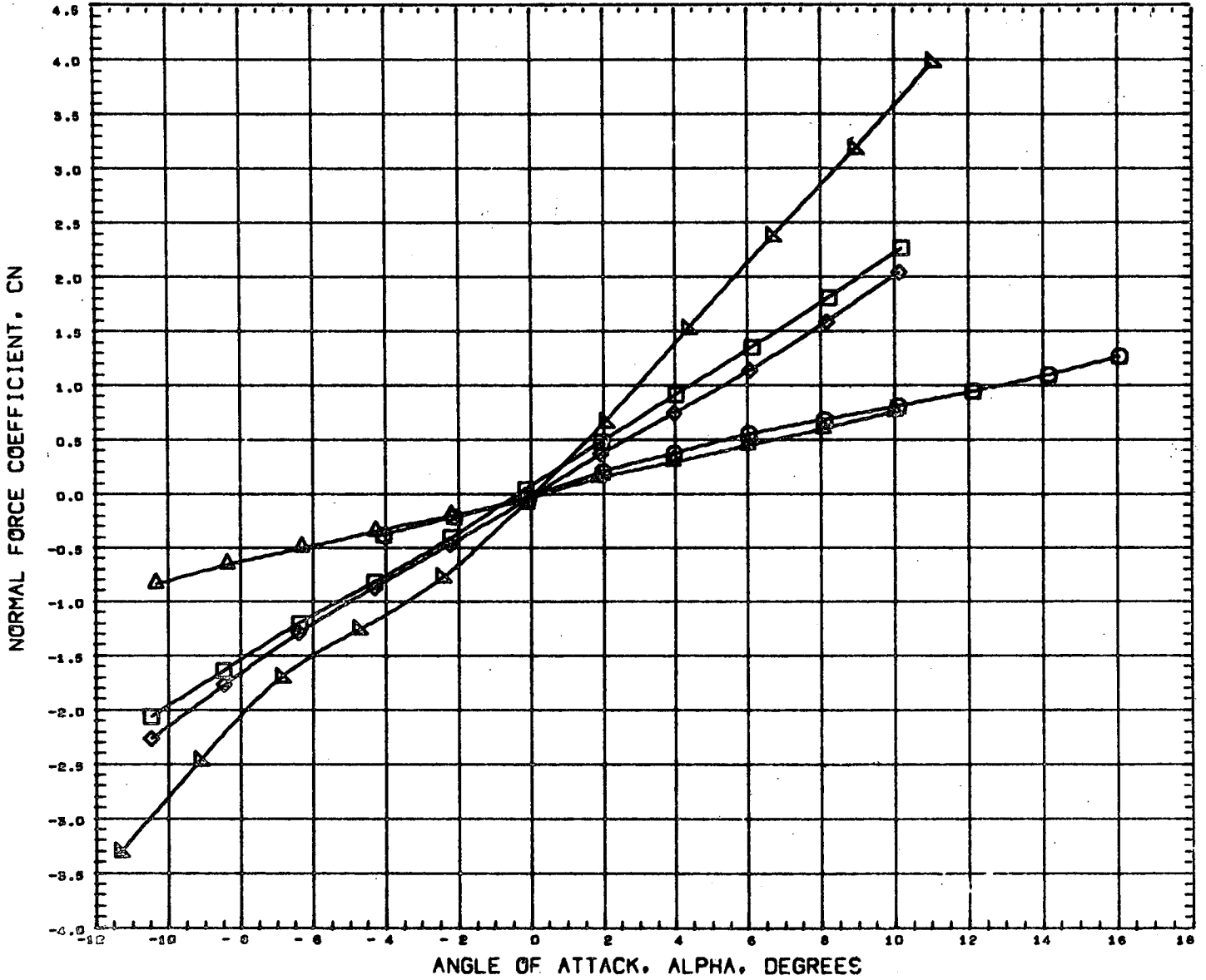


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	B34R6T10	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5001C)	MSFC 512 GD/C .003366 BOOSTER	B34R6T10	0.000	0.000	0.000	0.000	S ^{EFF} 0.9350 SQ. IN.
(D90140)	MSFC 512 GD/C .003366 BOOSTER	B35R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90190)	MSFC 512 GD/C .003366 BOOSTER	B36R6T10	0.000	0.000	0.000	0.000	BREF 1.0810 INCHES
							YMFP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 4.959

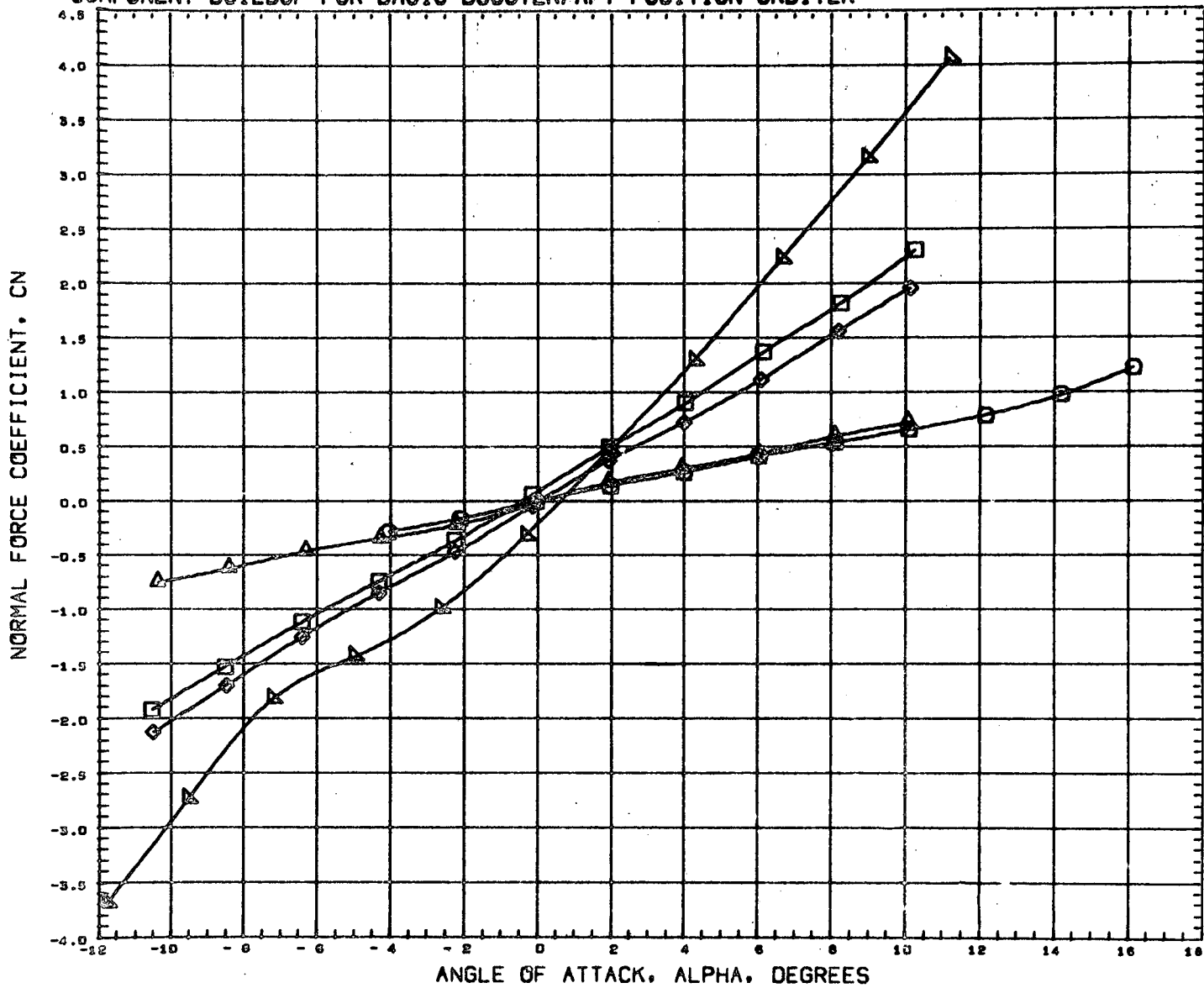
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80.IN.
(D50330)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T1DT3	0.000	0.000	0.000	0.000	RREF 1.0910 INCHES
(D50290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D04T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

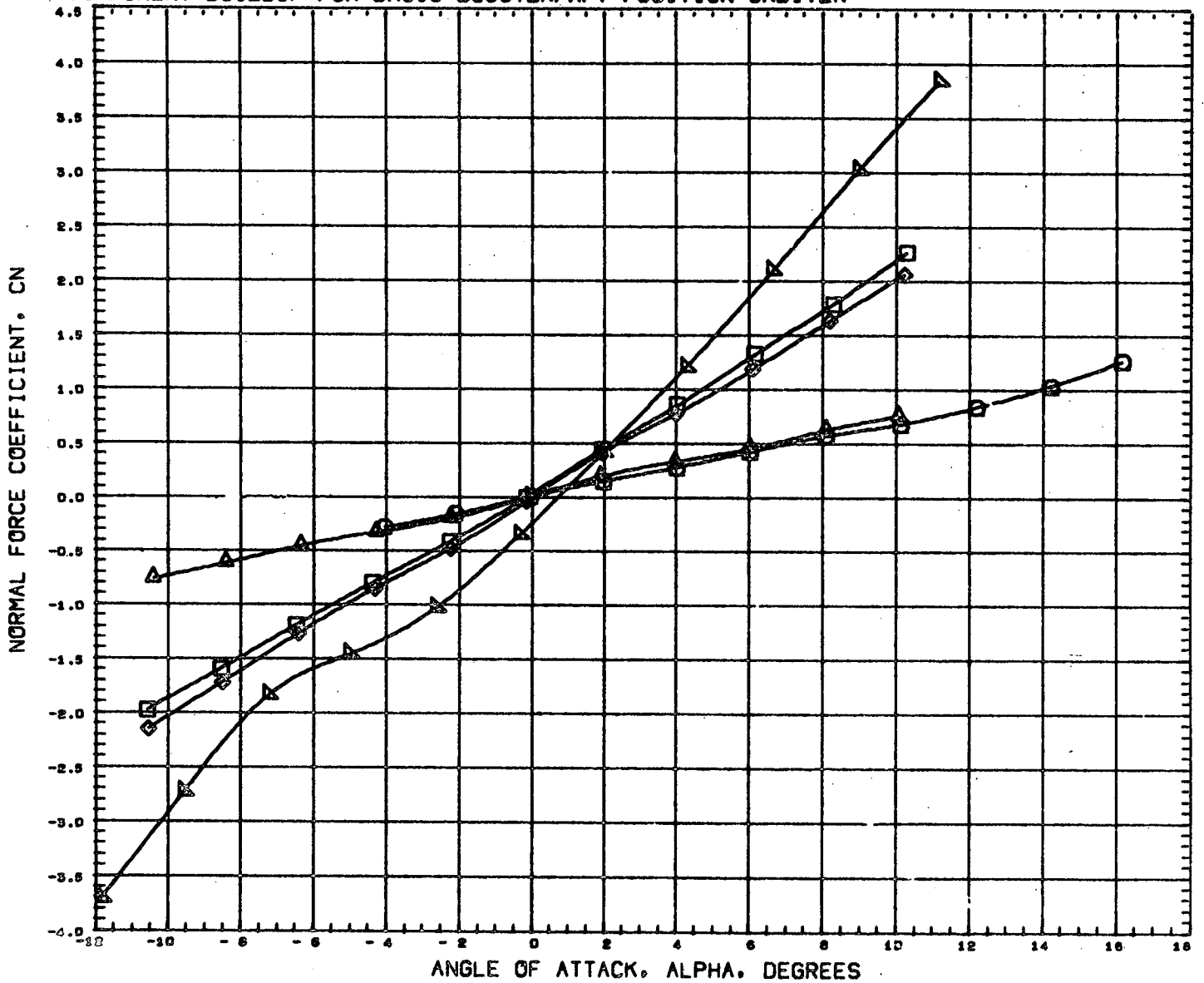
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	NSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRLF 0.9350 SQ. IN.
(D50350)	NSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	NSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50290)	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.100	XMRP 3.7920 INCHES
(E5017A)	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.100	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.100

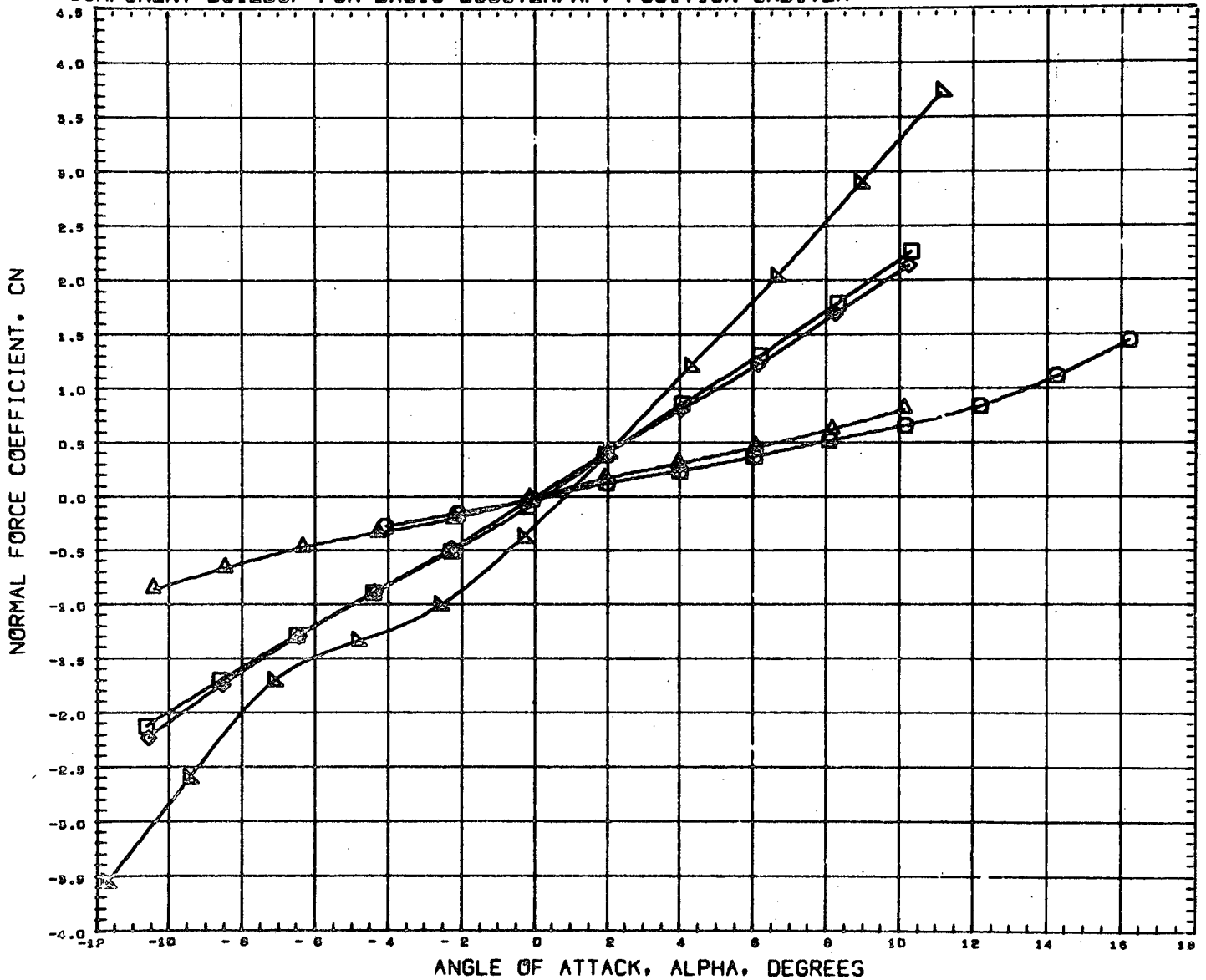
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011C)	MSFC 512 GD/C .003366 BOOSTER B34R8	0.000	45.000			SFCF 0.9350 SQ. IN.
(D90330)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D90320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRF 3.7920 INCHES
(E9017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRF 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.203

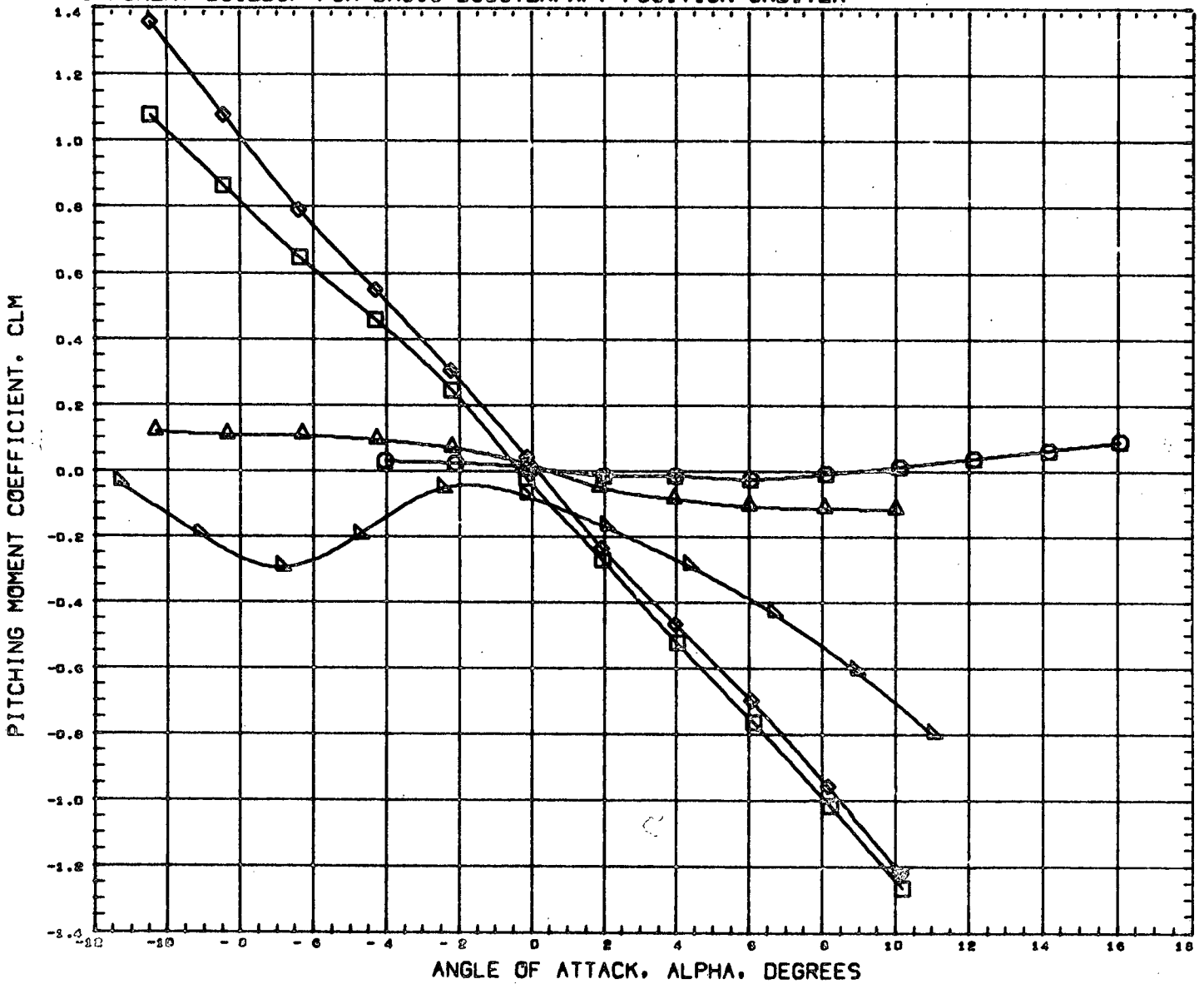
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D50330)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50280)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

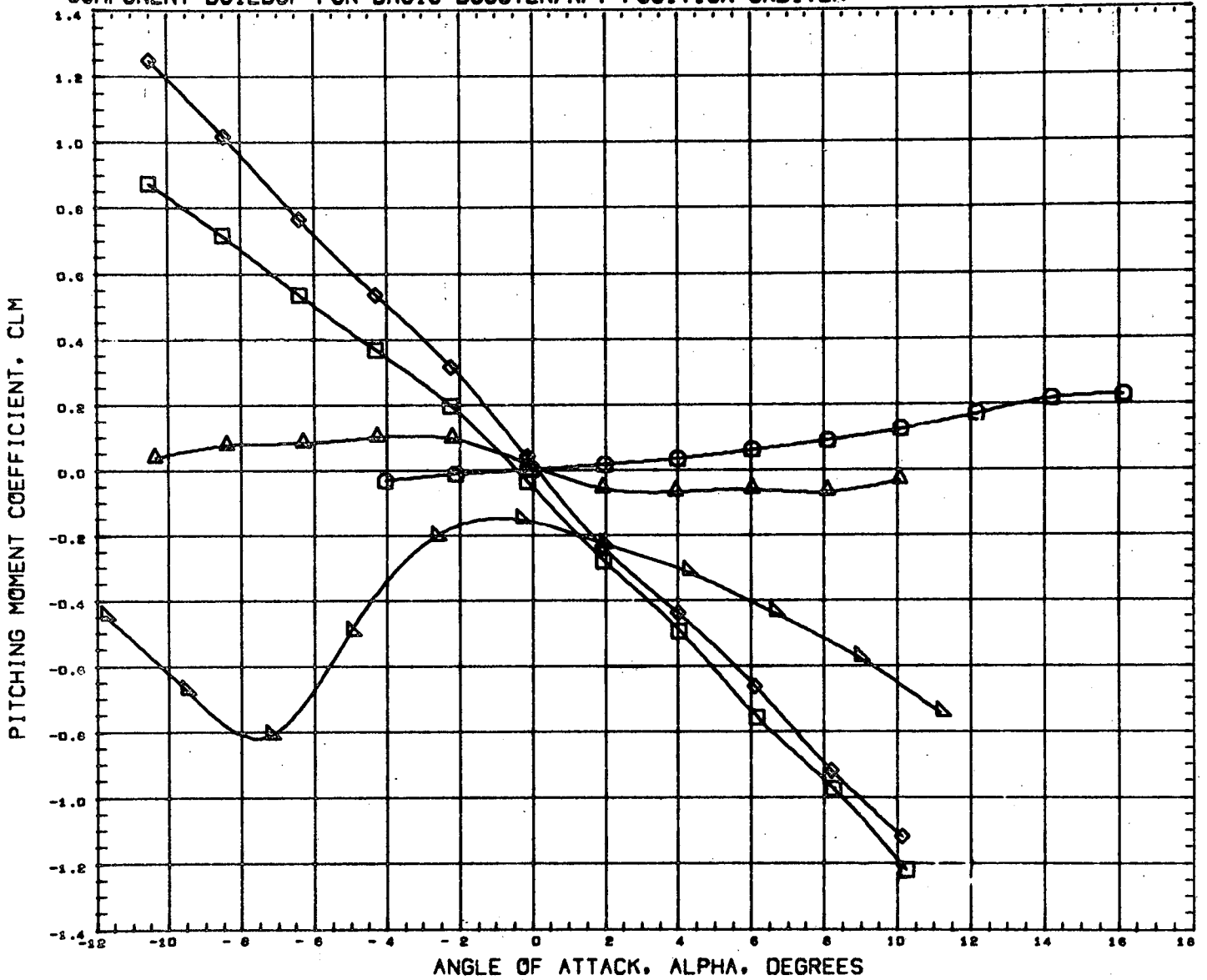
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			OREF 0.9350 60. IN.
(D50330)	MSFC 512 GD/C .003360 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T1DT3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.910

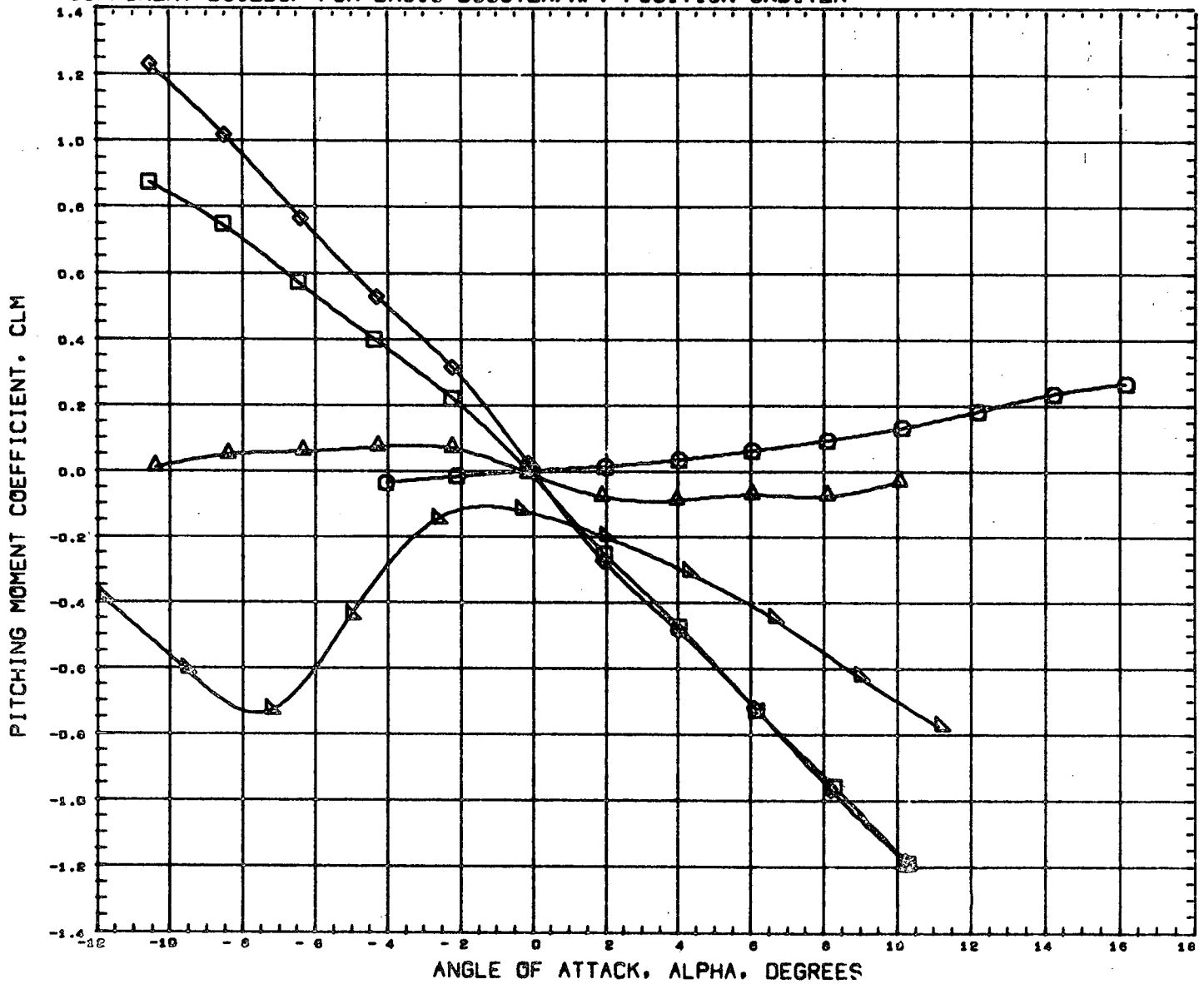
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			REF 0.9550 SQ. IN.
(D50330)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T1UT3	0.000	0.000	0.000	0.600	RREF 1.0910 INCHES
(D50200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.600	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

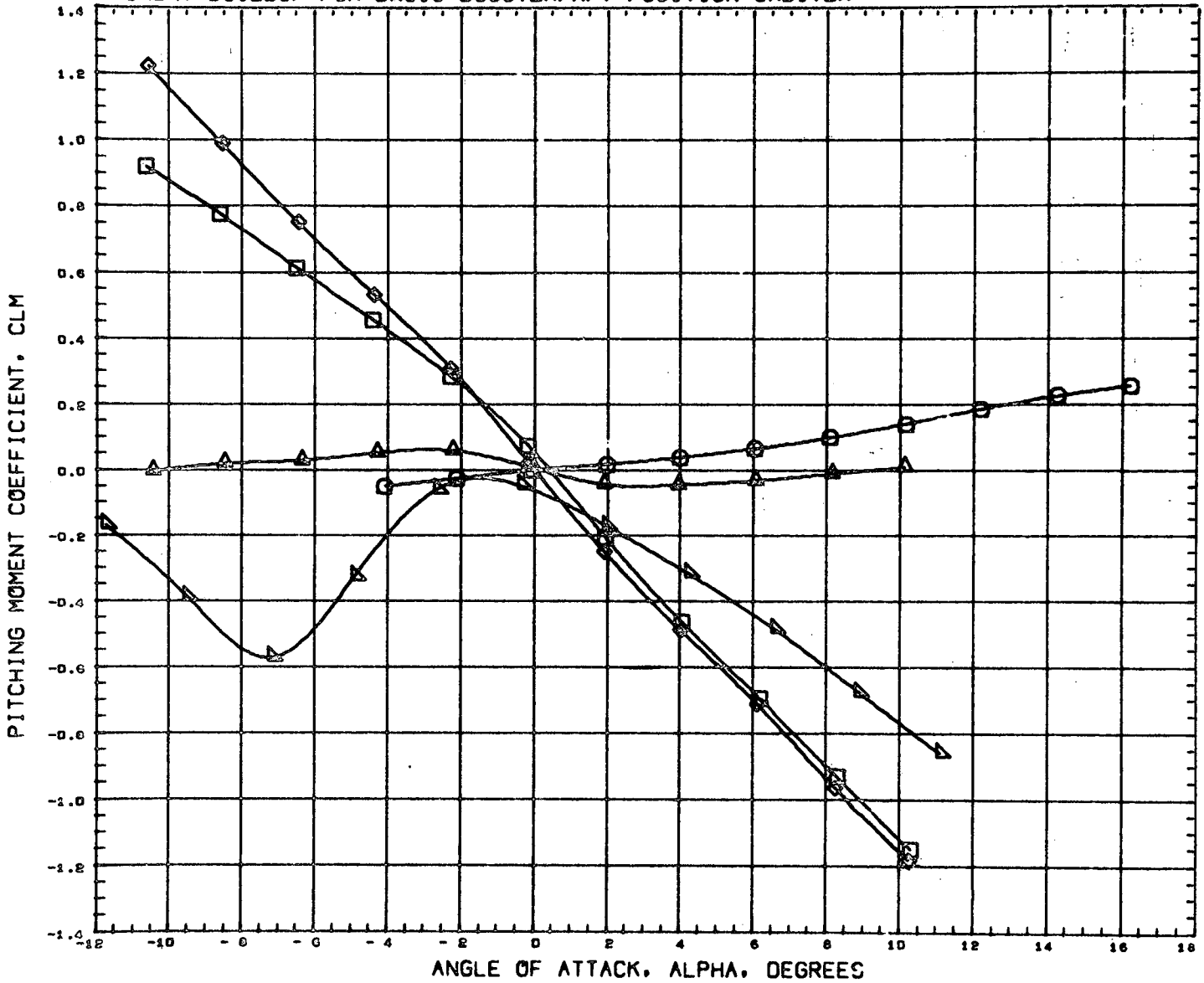
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E8011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D9033D)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D9032D)	MSFC 512 GD/C .003366 BOOSTER B34R6T1DT3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D9029D)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1D04T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E8017A)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

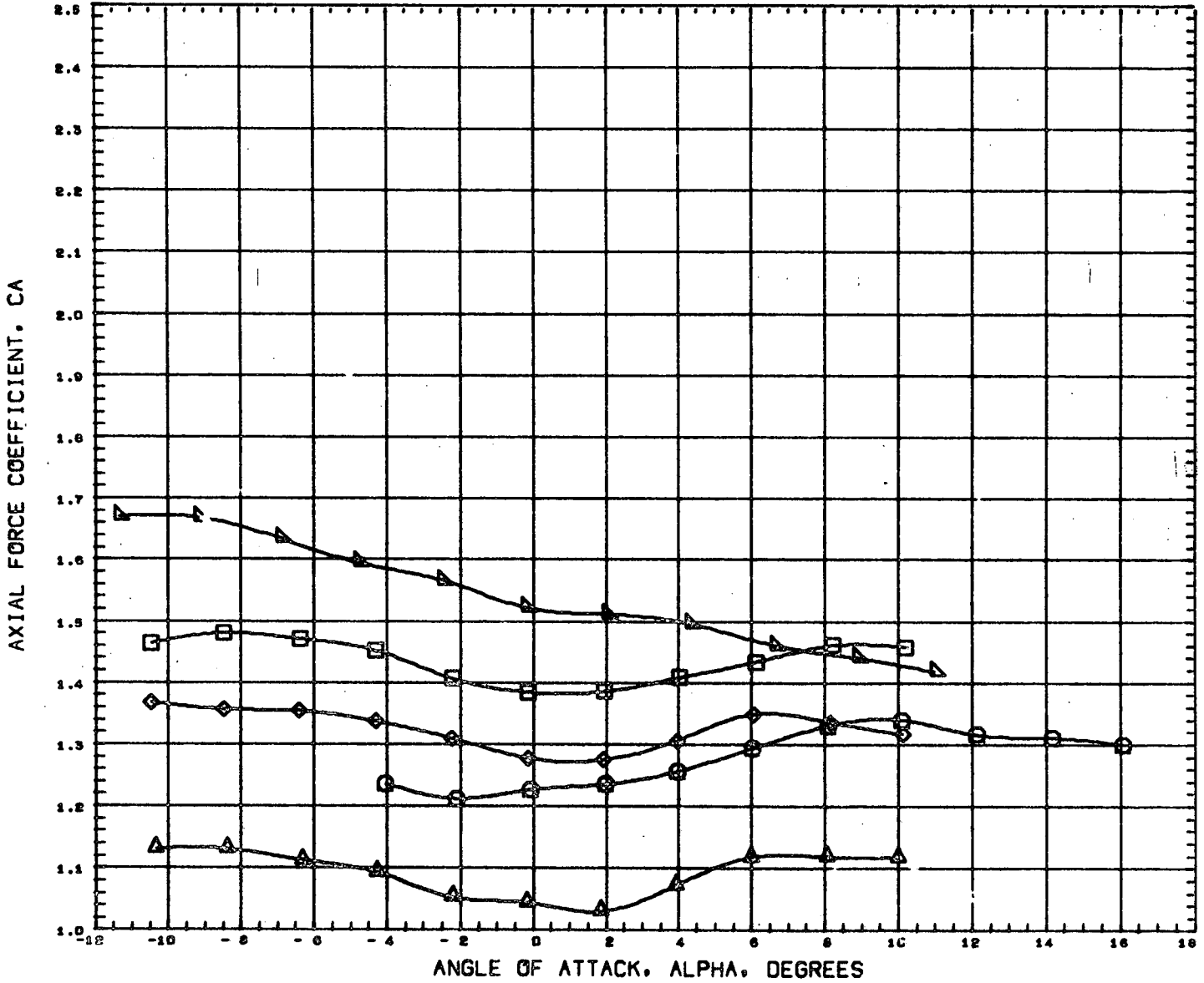
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(D90330)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D90320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	RREF 1.0910 INCHES
(D90290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O4T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E9017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

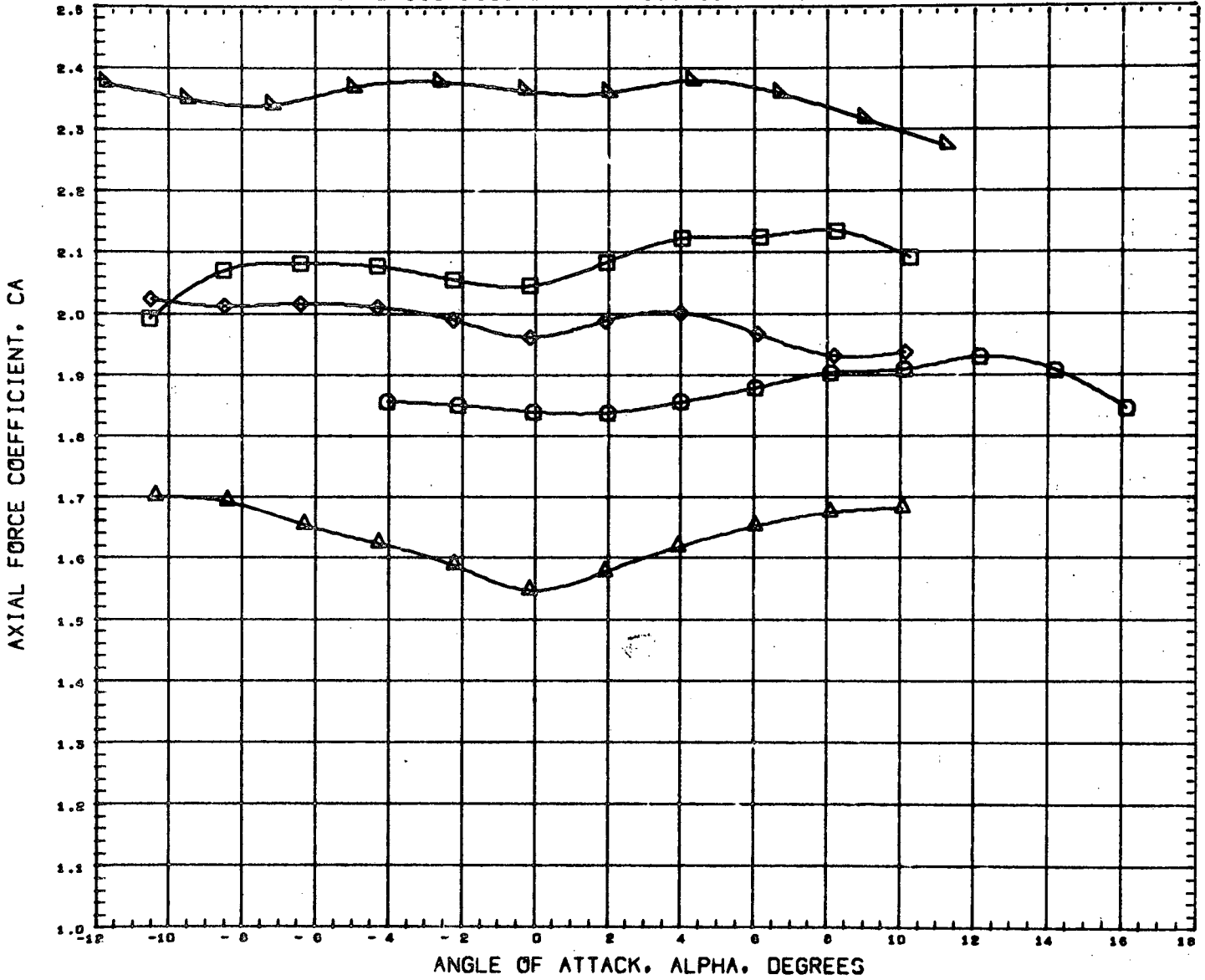
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SCALE 0.0034
(D5033D)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			SCALE 0.0034
(D5032D)	MSFC 512 GD/C .003366 BOOSTER B34RGT10T3	0.000	0.000	0.000	0.000	SCALE 0.0034
(D5029D)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34RGT10D4T3	0.000	0.000	0.000	0.000	SCALE 0.0034
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34RGT10D2T3	0.000	0.000	0.000	0.000	SCALE 0.0034

MACH 0.900

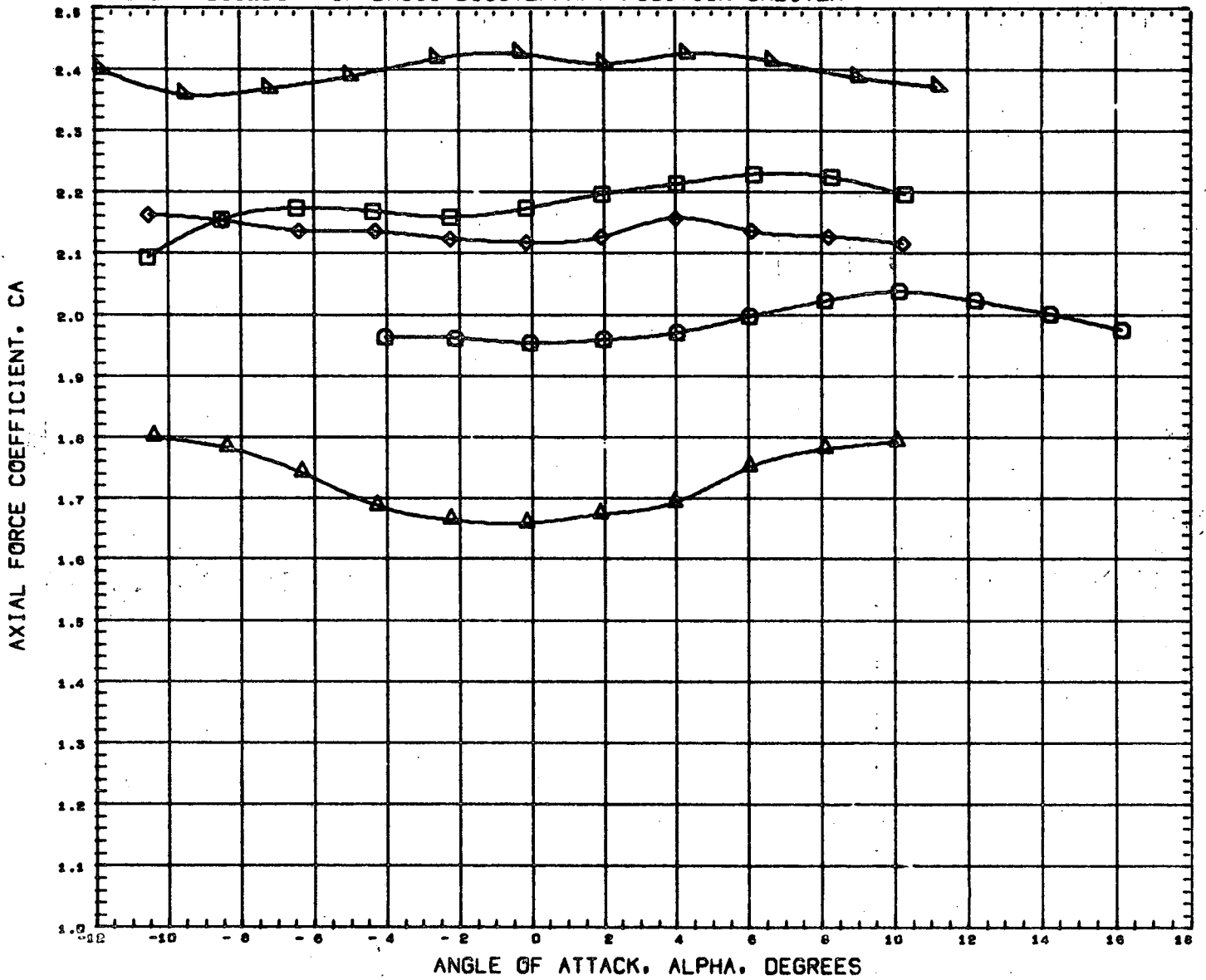
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	NSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D50330)	NSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	NSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BRFP 1.0910 INCHES
(D50200)	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XRRT 3.7920 INCHES
(E5017A)	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

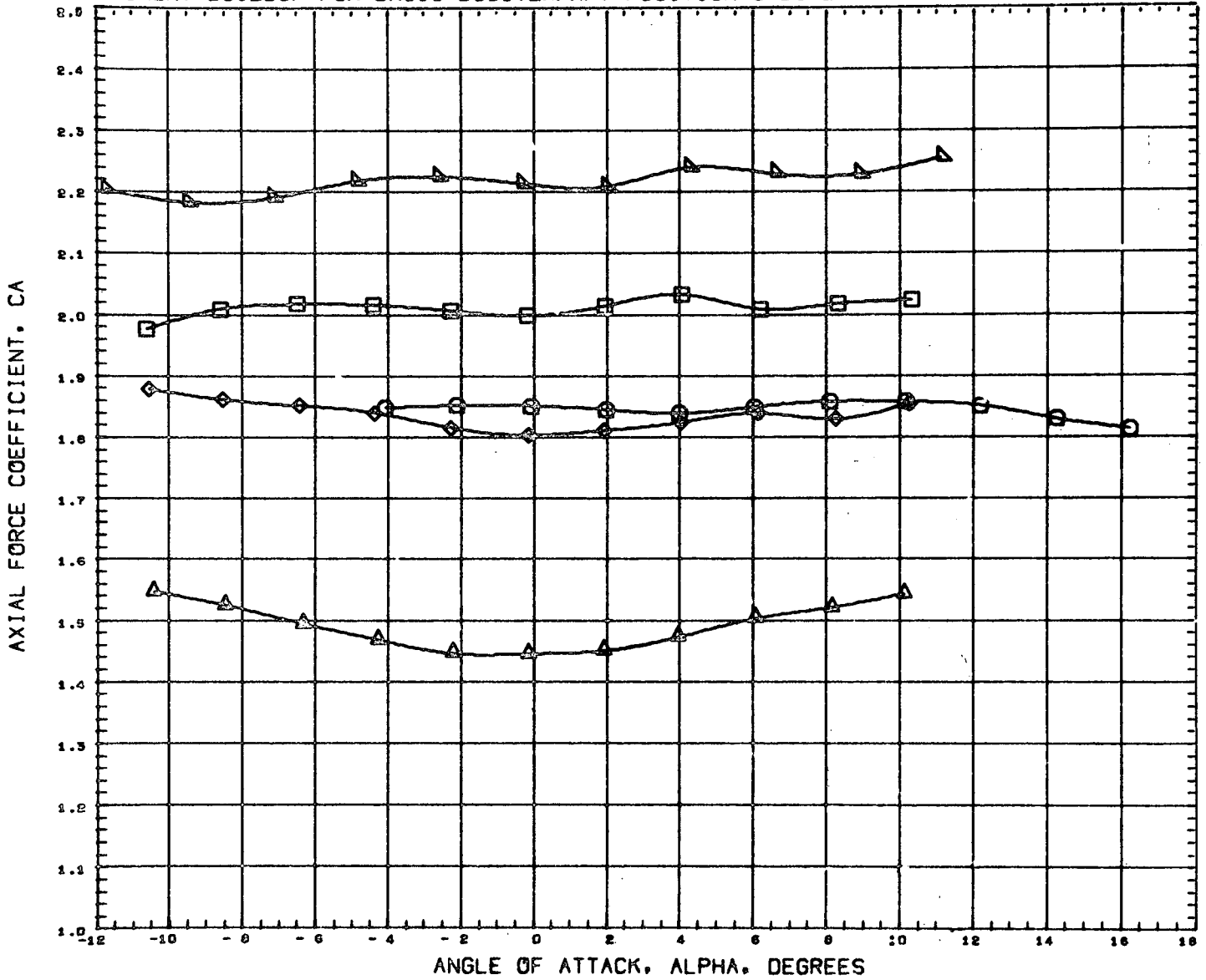
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(D50330)	MSFC 512 GD/C .003360 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XNRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YNRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

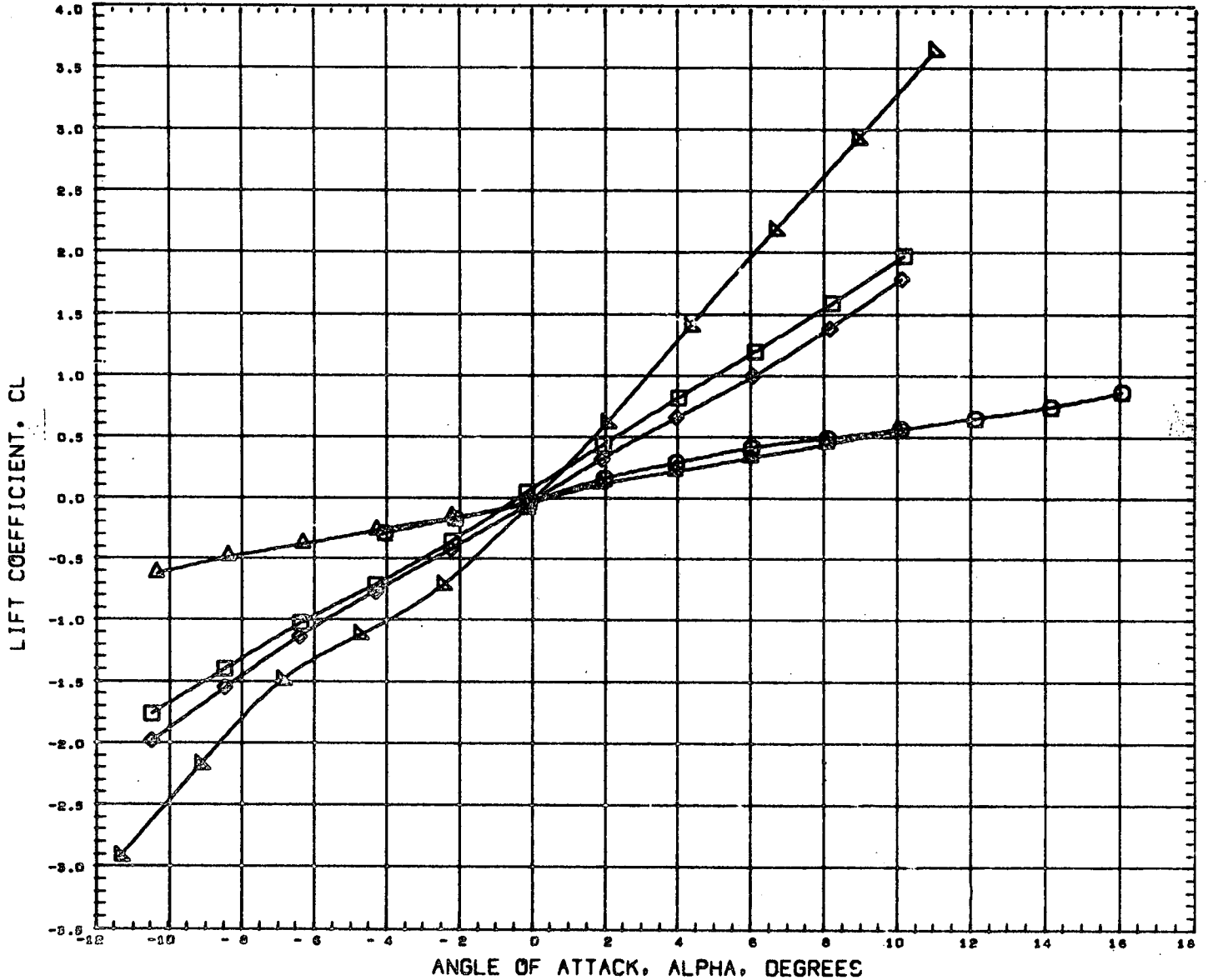
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9D11C)	HSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			CREP 0.9350 SQ. IN.
(D50330)	HSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D90320)	HSFC 512 GD/C .003366 BOOSTER B34R6T1DT3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50200)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

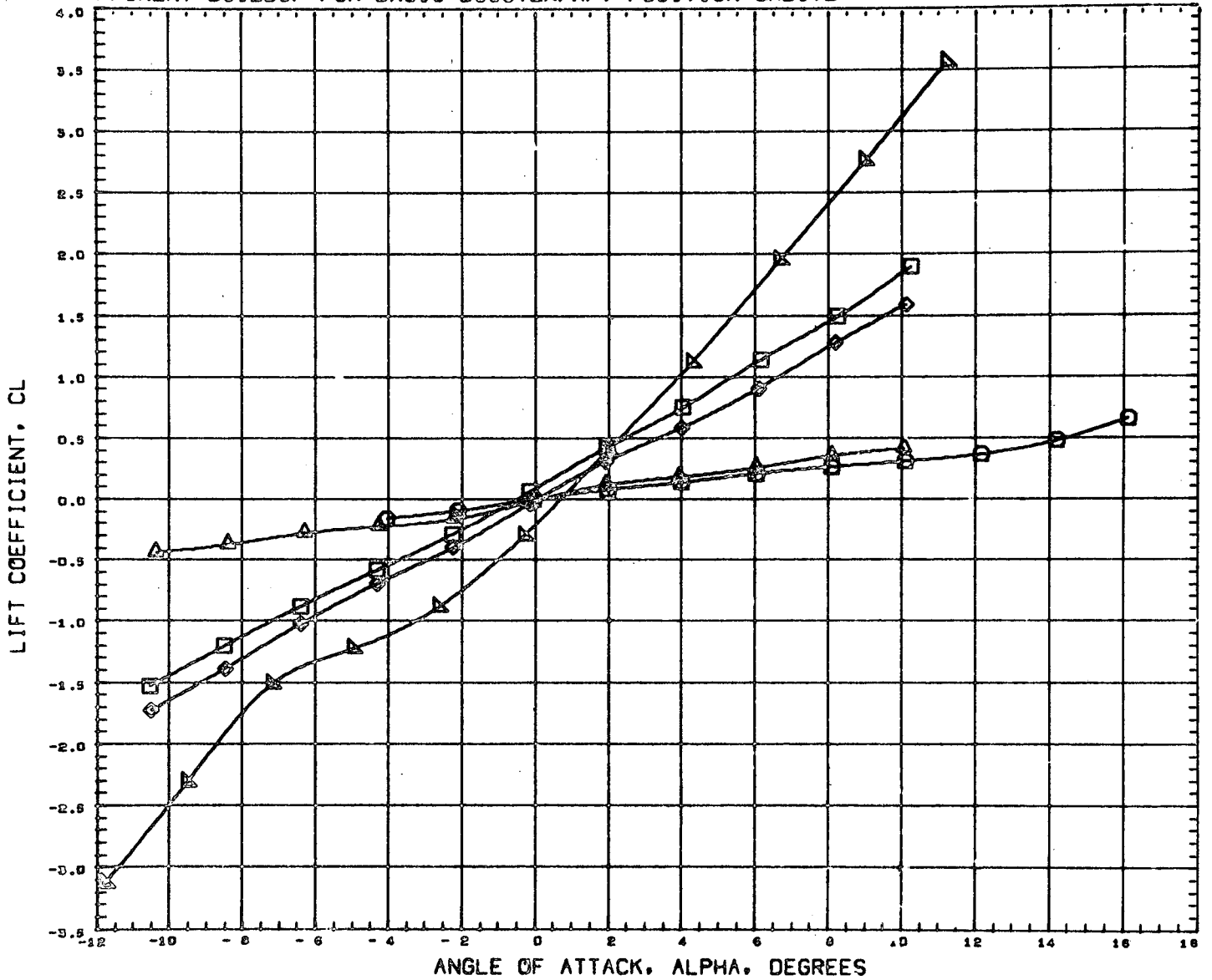
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(ESD11C)	MBFC 512 GD/C .003300 BOOSTER B34R6	0.000	45.000			SKEF 0.9350 SQ. IN.
(DS0330)	MBFC 512 GD/C .003300 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(DS0320)	MBFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	RREF 1.0910 INCHES
(DS0290)	MBFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O4T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(ESD17A)	MBFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.000

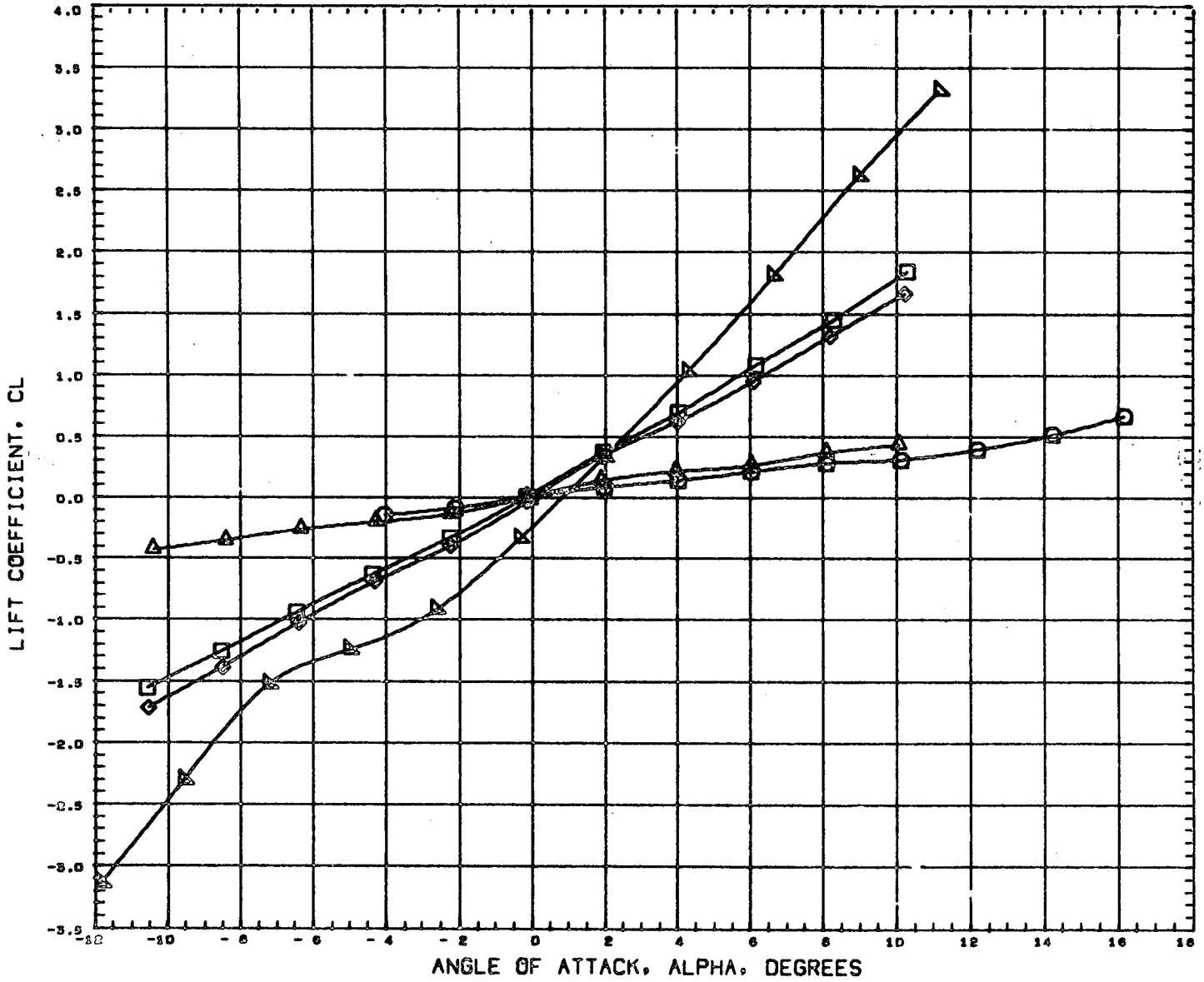
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMCC	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			LREF 0.9350 90. IN.
(D9033D)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D9032D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D9020D)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E9017A)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.100

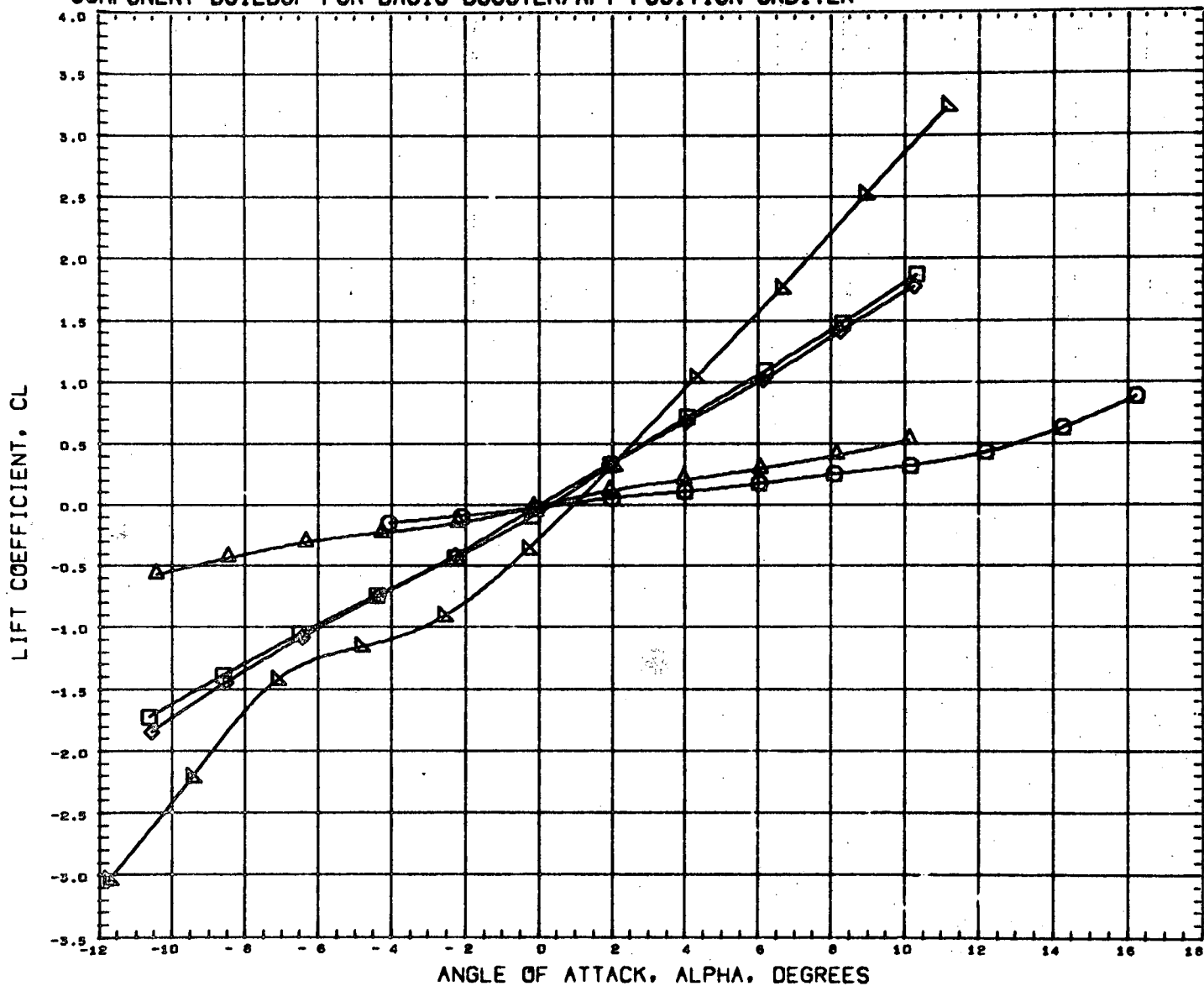
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SR_F 0.9350 SQ.IN.
(D50350)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50290)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T10O4T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T3O02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

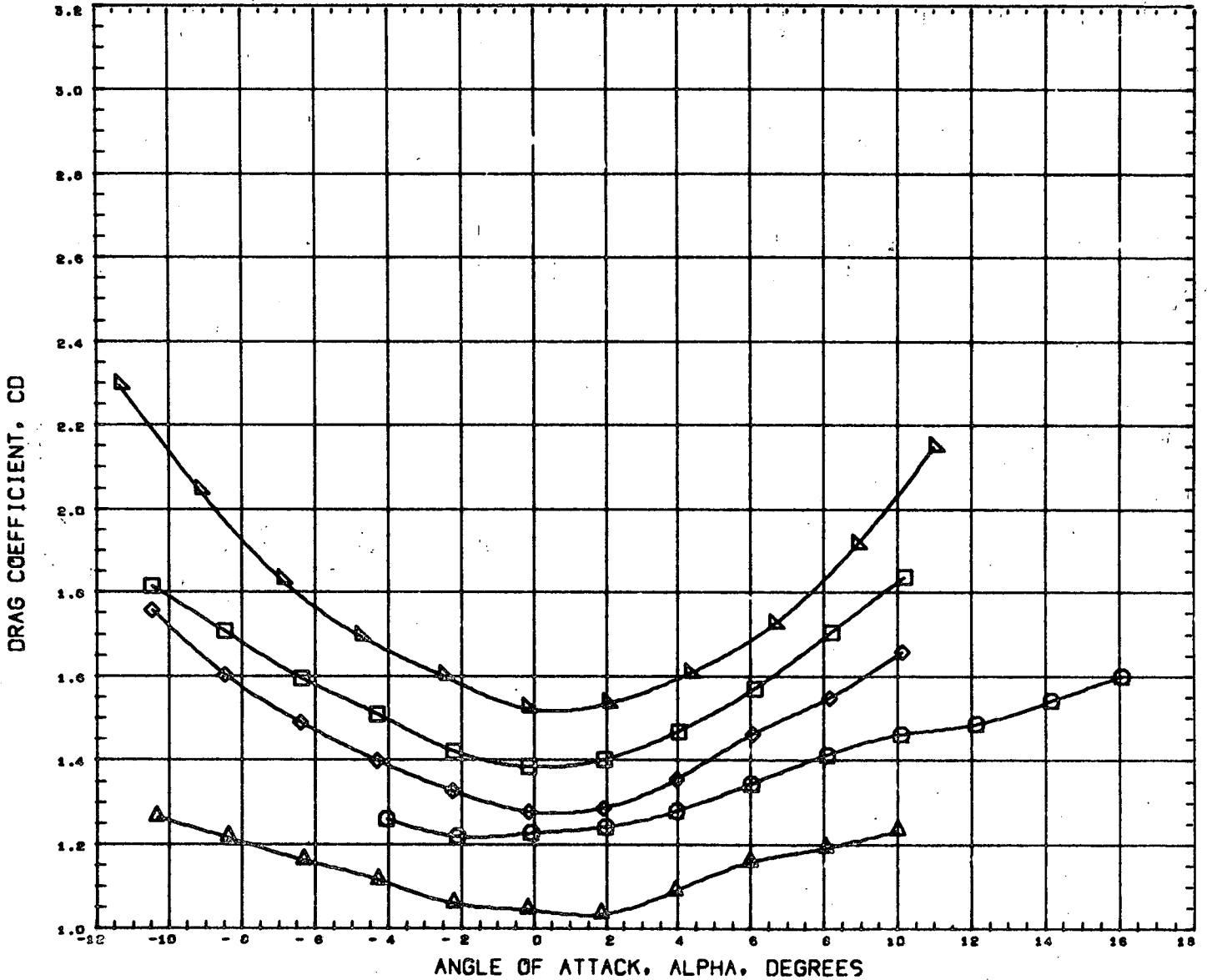
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5D11C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRLF 0.9350 SQ. IN.
(D5D33D)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D5D32D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5D29D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O4T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5D17A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.450

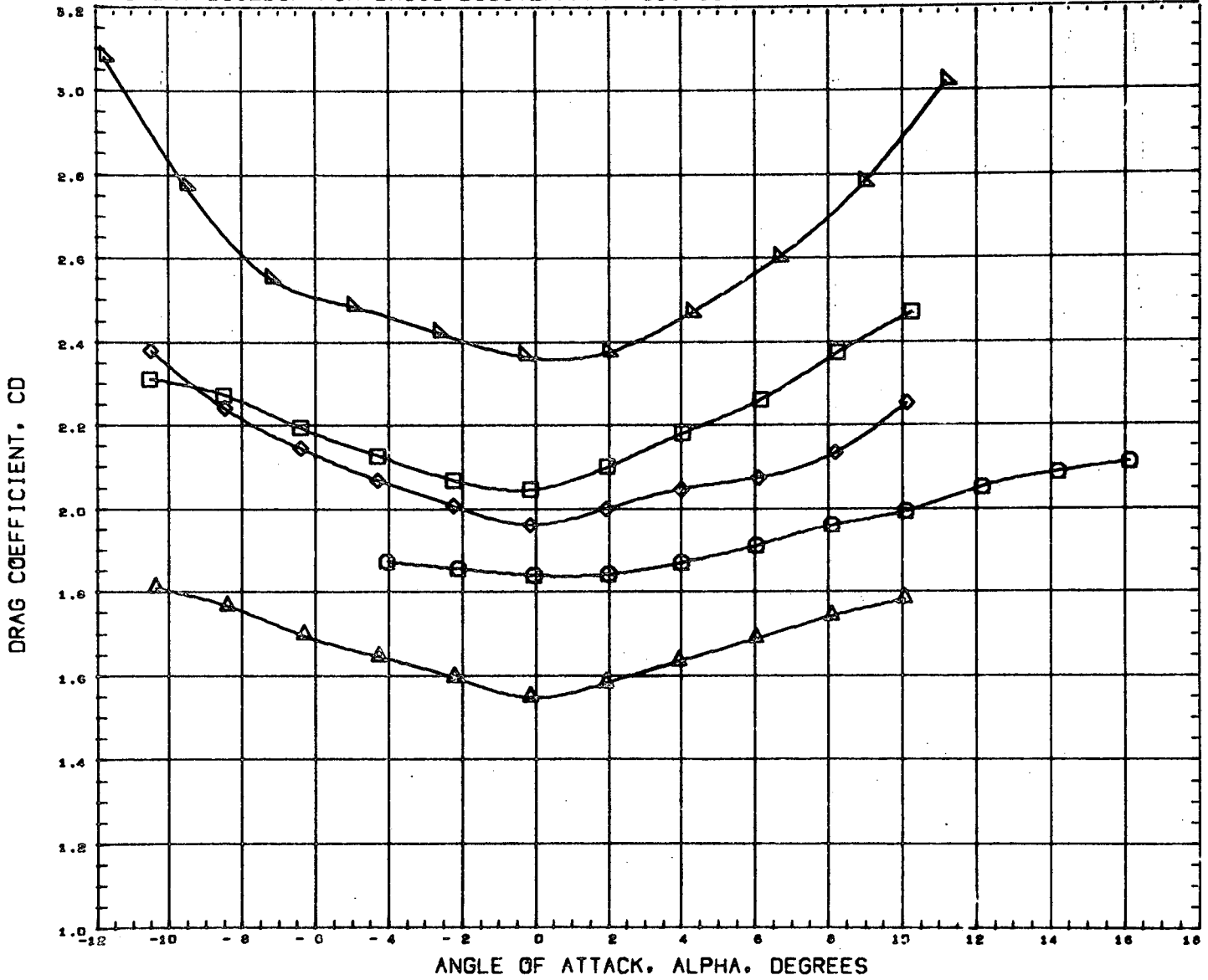
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003300	BOOSTER B34R6	0.000	45.000			BREF 0.9350 80. IN.
(D50330)	MSFC 512 GD/C .003306	BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366	BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50290)	MSFC 512 GD/C .003368	BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366	BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 0.900

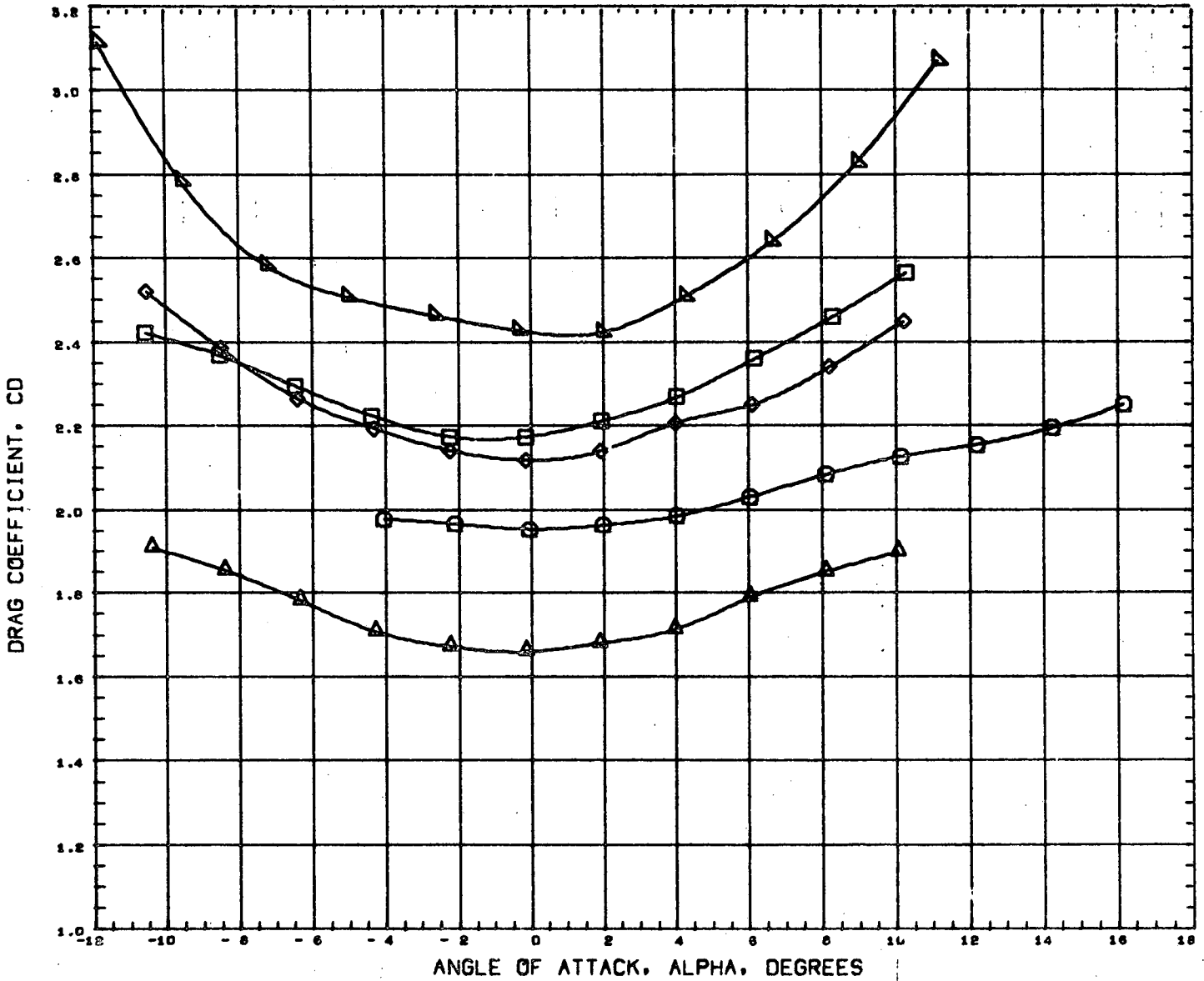
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOC	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SFEF 0.9350 SQ. IN.
(D90330)	MSFC 512 GD/C .003366 BOOSTER B34RGT3	0.000	0.000			LREF 6.2310 INCHES
(D90320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.00J	BREF 1.0910 INCHES
(D90290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O4T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E9017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

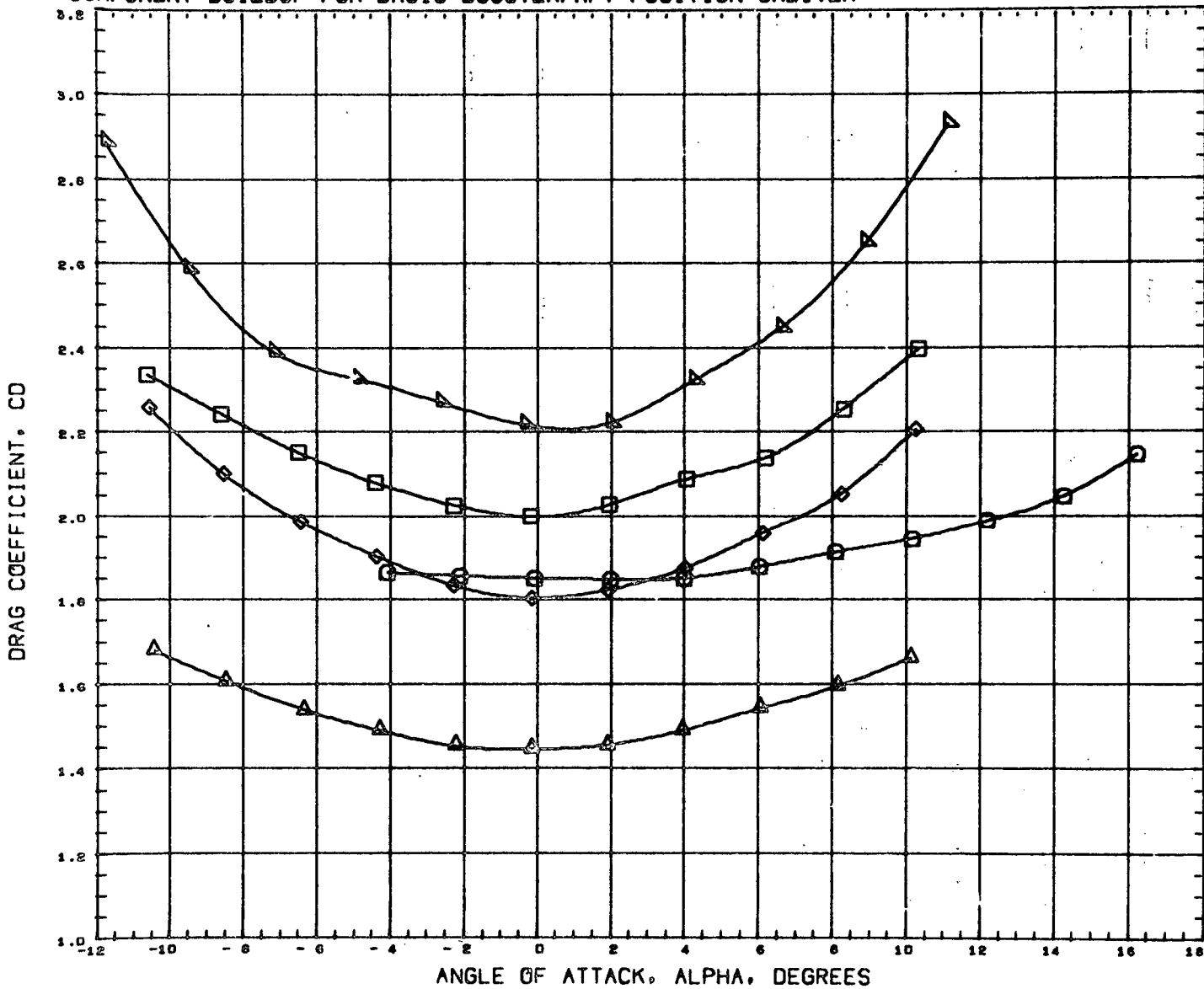
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRUF 0.9350 SQ. IN.
(D50330)	M8FC 512 GD/C .003363 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	M8FC 512 GD/C .003366 BOOSTER B34R6T1DT3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50290)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D04T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

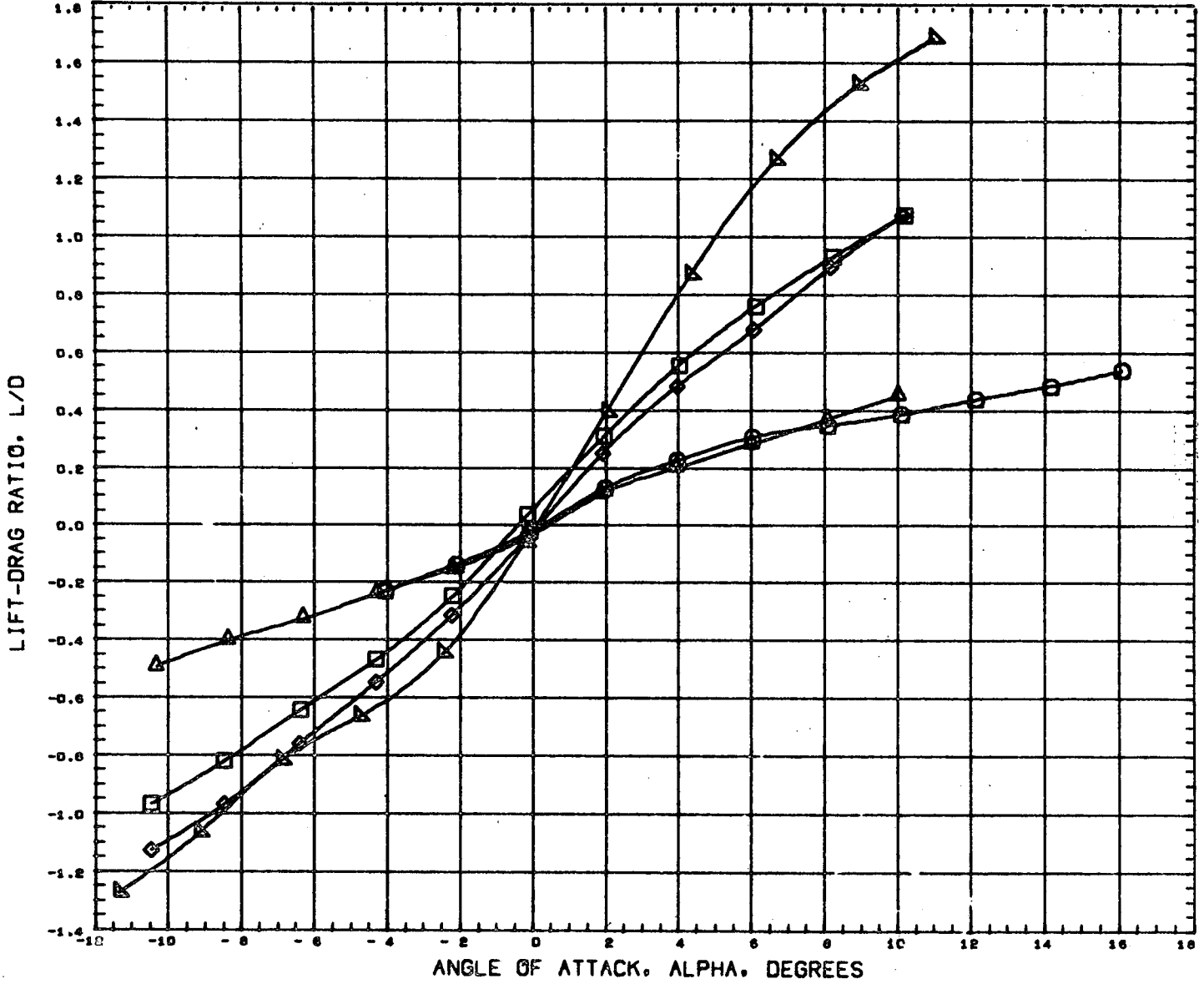
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SR2F 0.9350 30. IN.
(D90330)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D90320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMPF 3.7920 INCHES
(E9017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMPF 0.0000 INCHES
						ZMPF 0.0000 INCHES
						SCALE 0.0034

MACH 1.458

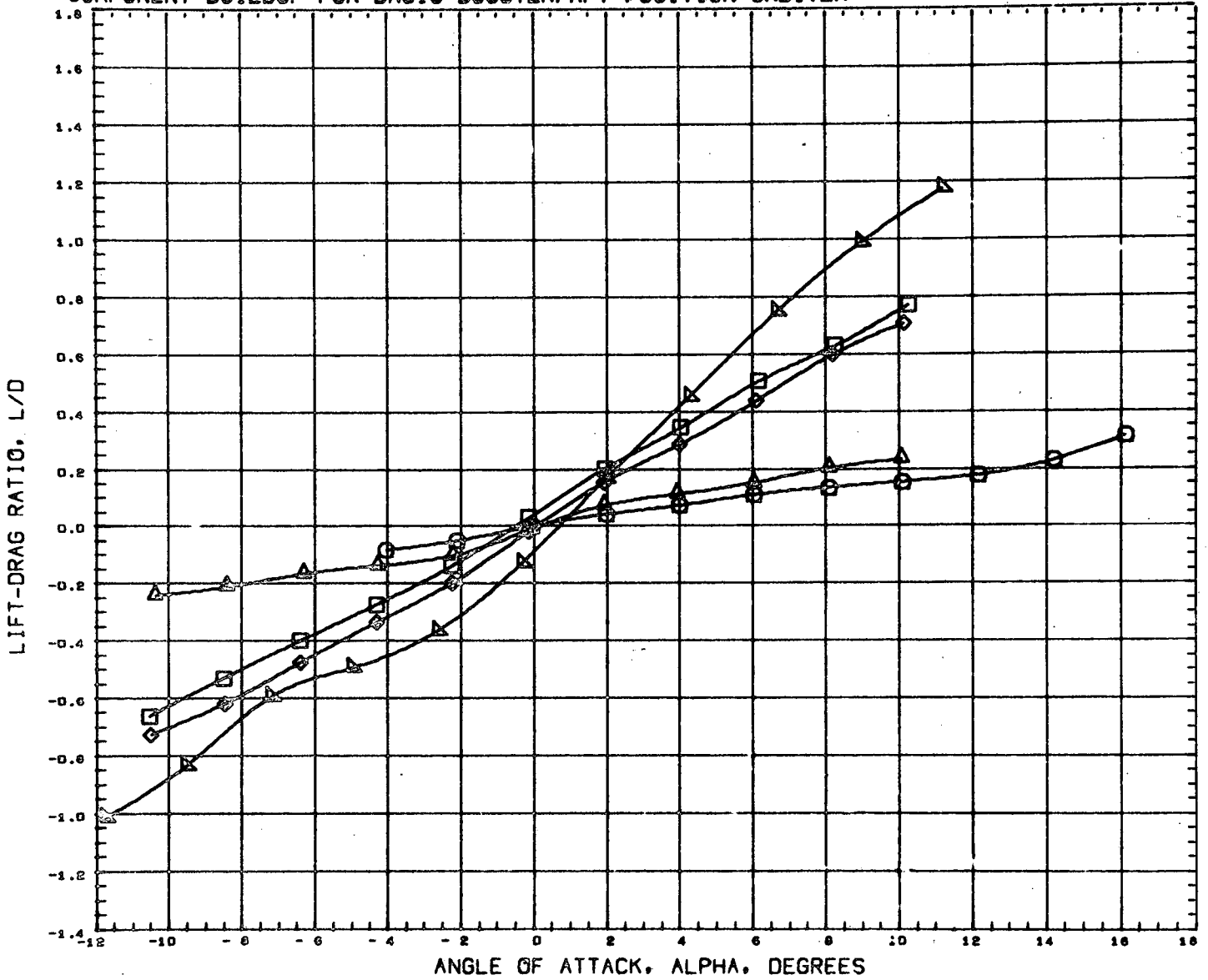
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003360 BOOSTER B34R6	0.000	45.000			SP ² F 0.9350 SQ. IN.
(D5033D)	MSFC 512 GD/C .003360 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D5032D)	MSFC 512 GD/C .003360 BOOSTER B34R6T1DT3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5029D)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1D04T3	0.000	0.000	0.000	0.000	XMR ² 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

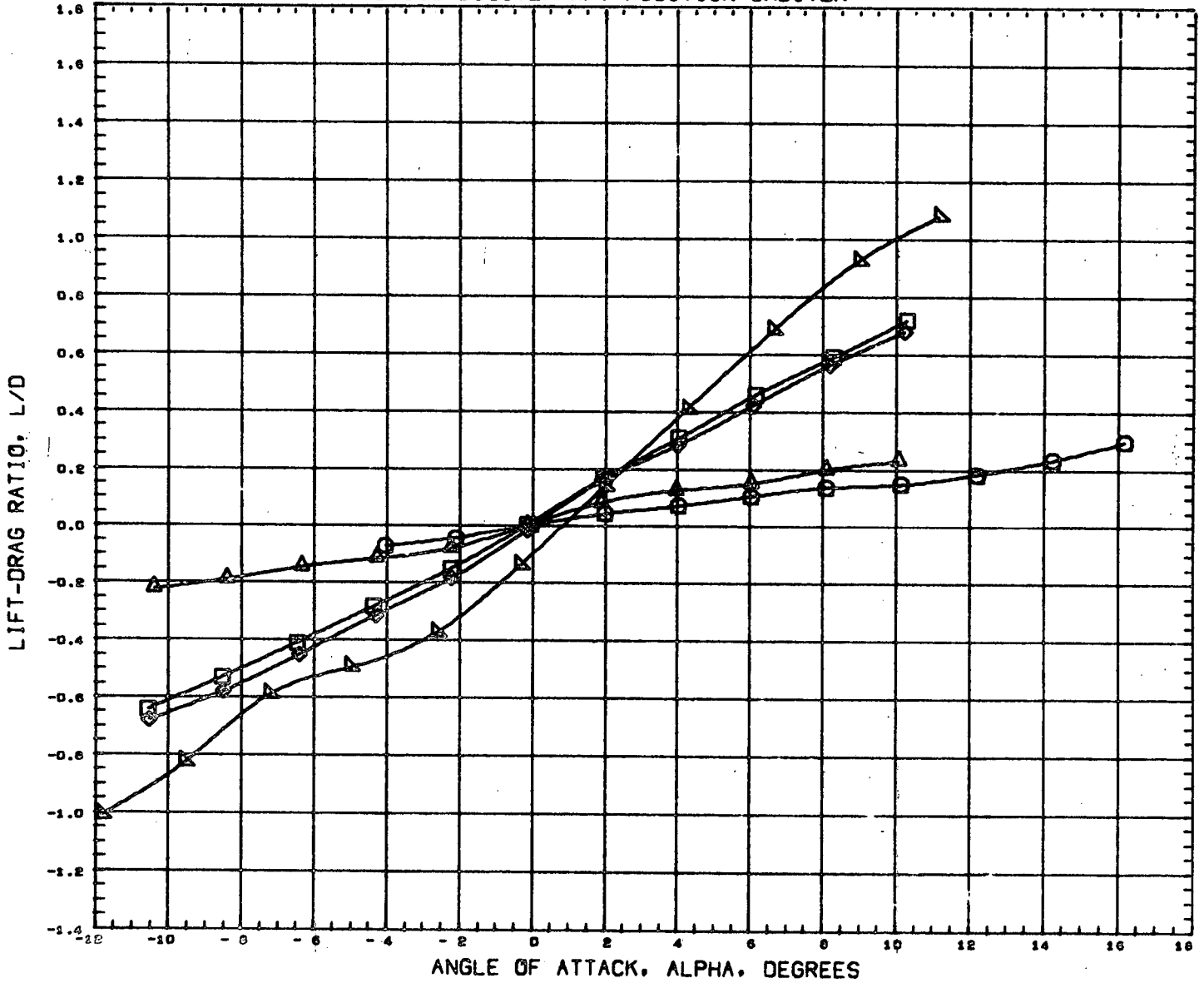
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			CREF 0.9350 SQ. IN.
(D50330)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.100

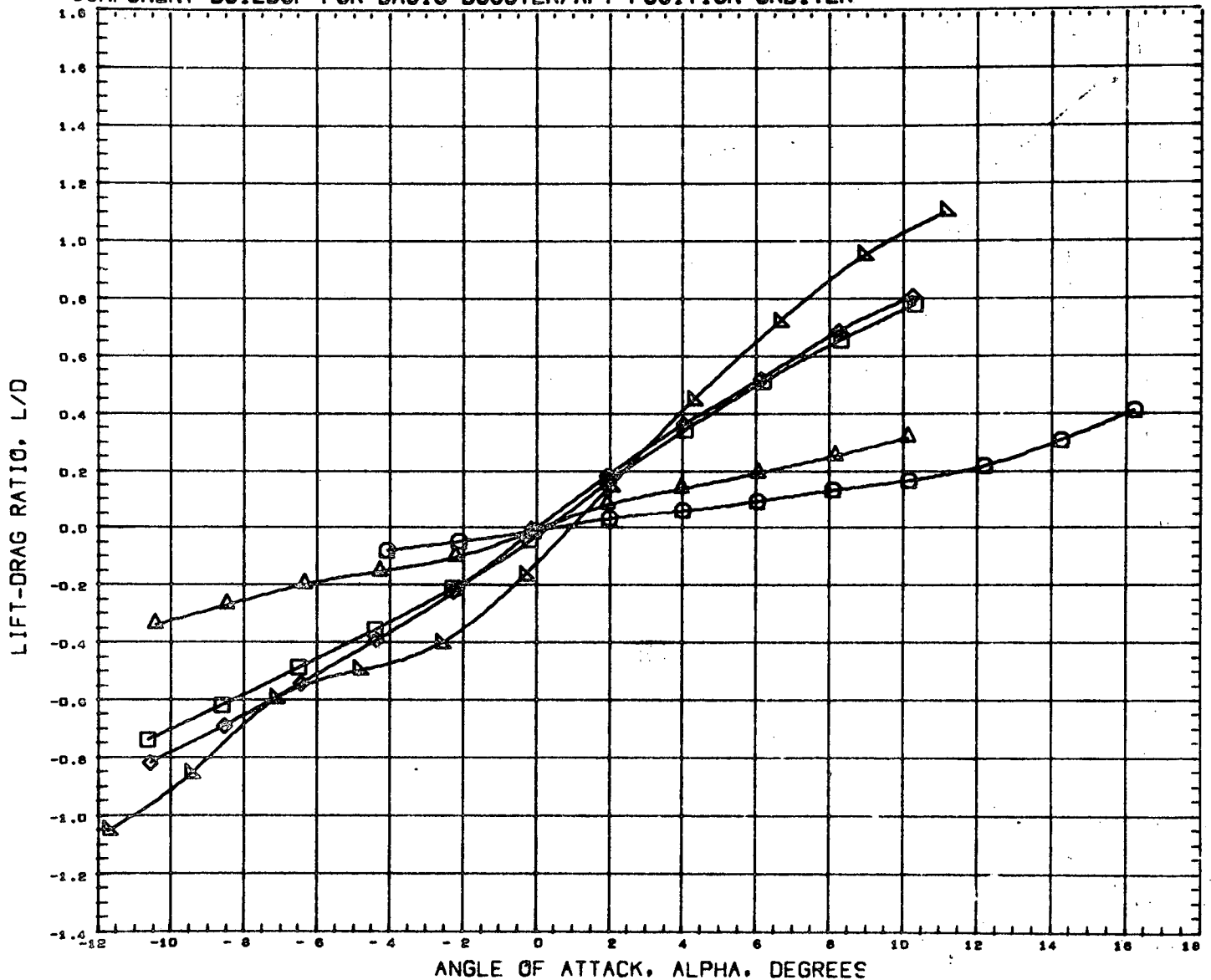
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRCF 0.9350 SQ. IN.
(D5033D)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D5032D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5029D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O4T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

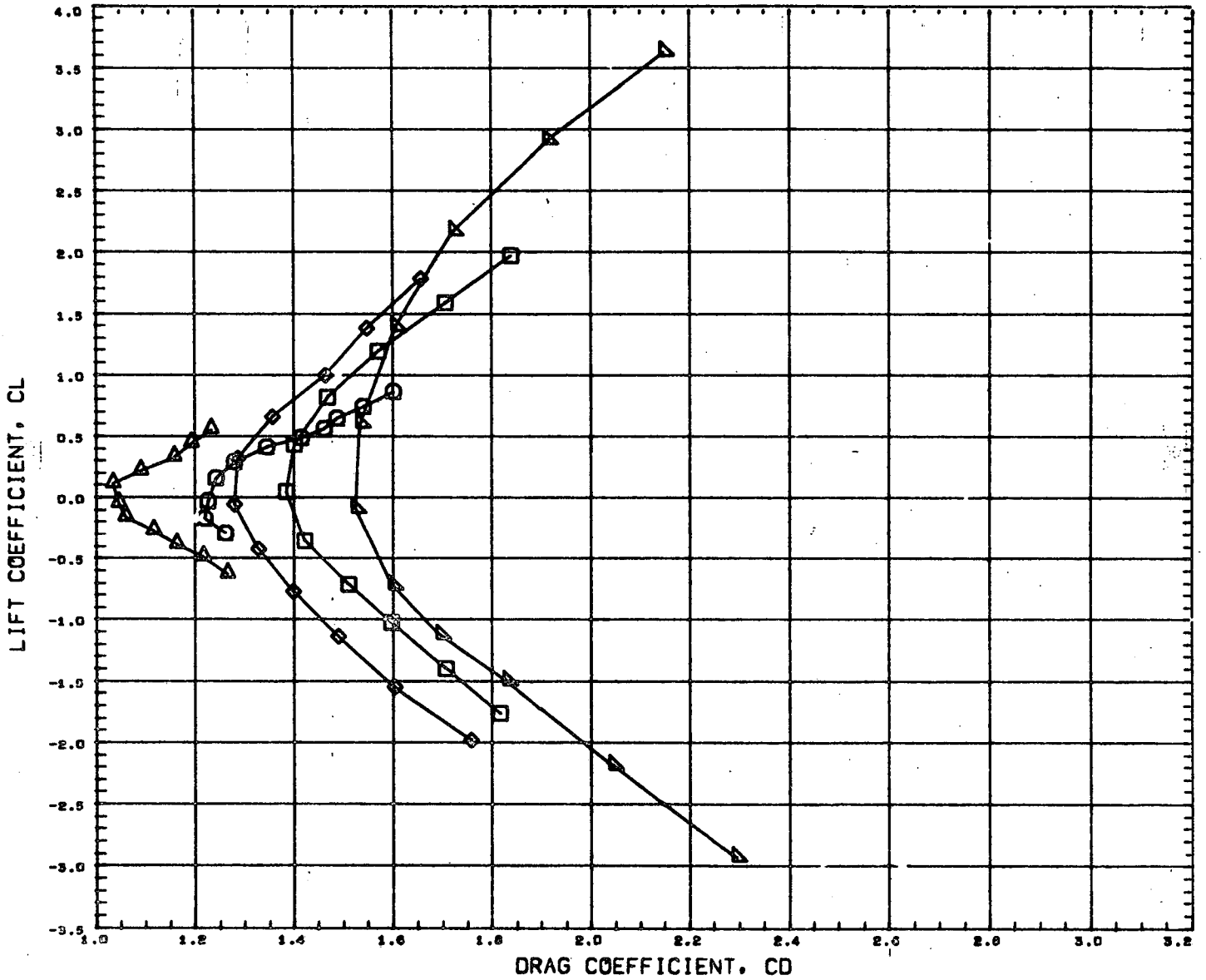
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(ESD11C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 90. IN.
(D5033D)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D5032D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5029D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(ESD17A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER

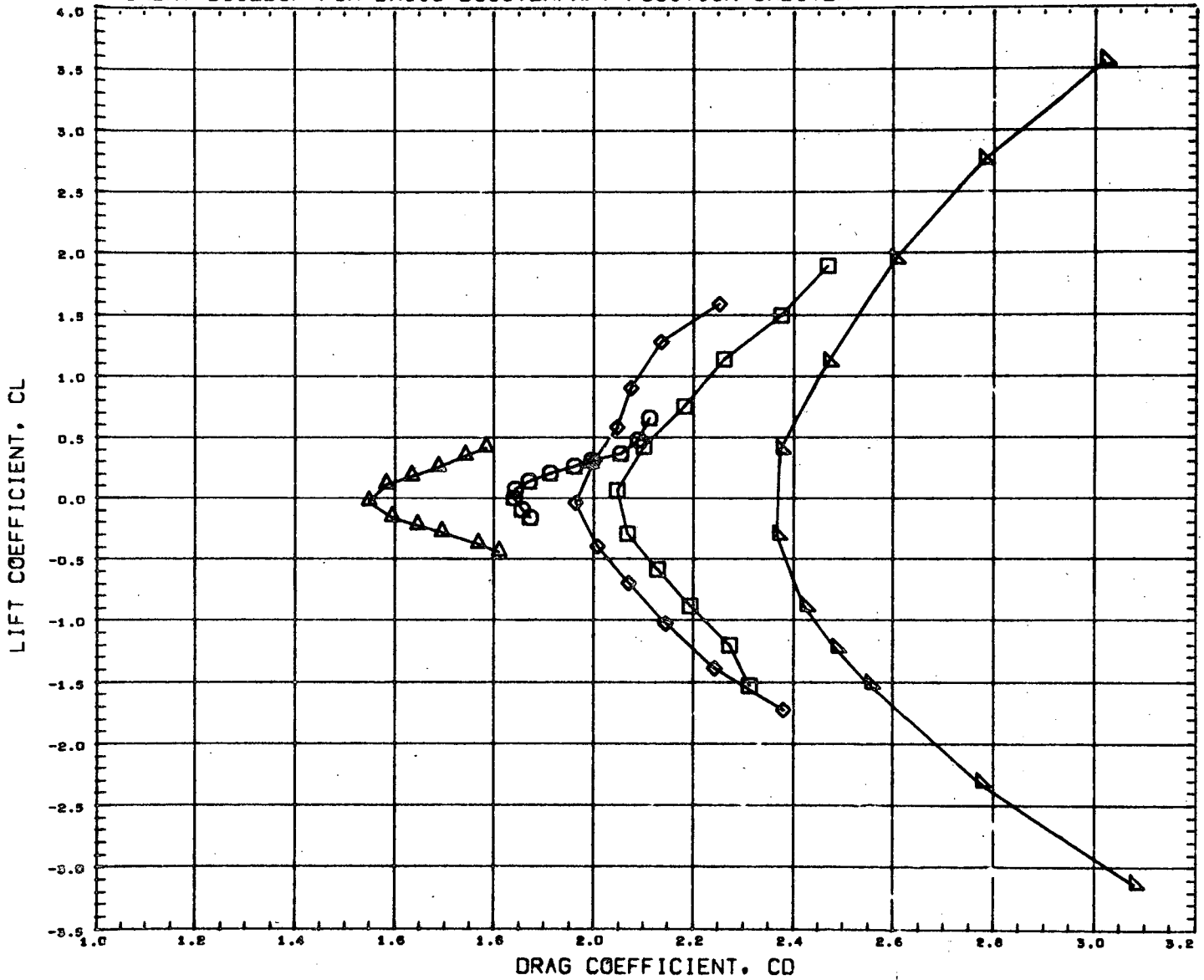


DRAG COEFFICIENT, CD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			LREF 0.9350 80. IN.
(D50390)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.800

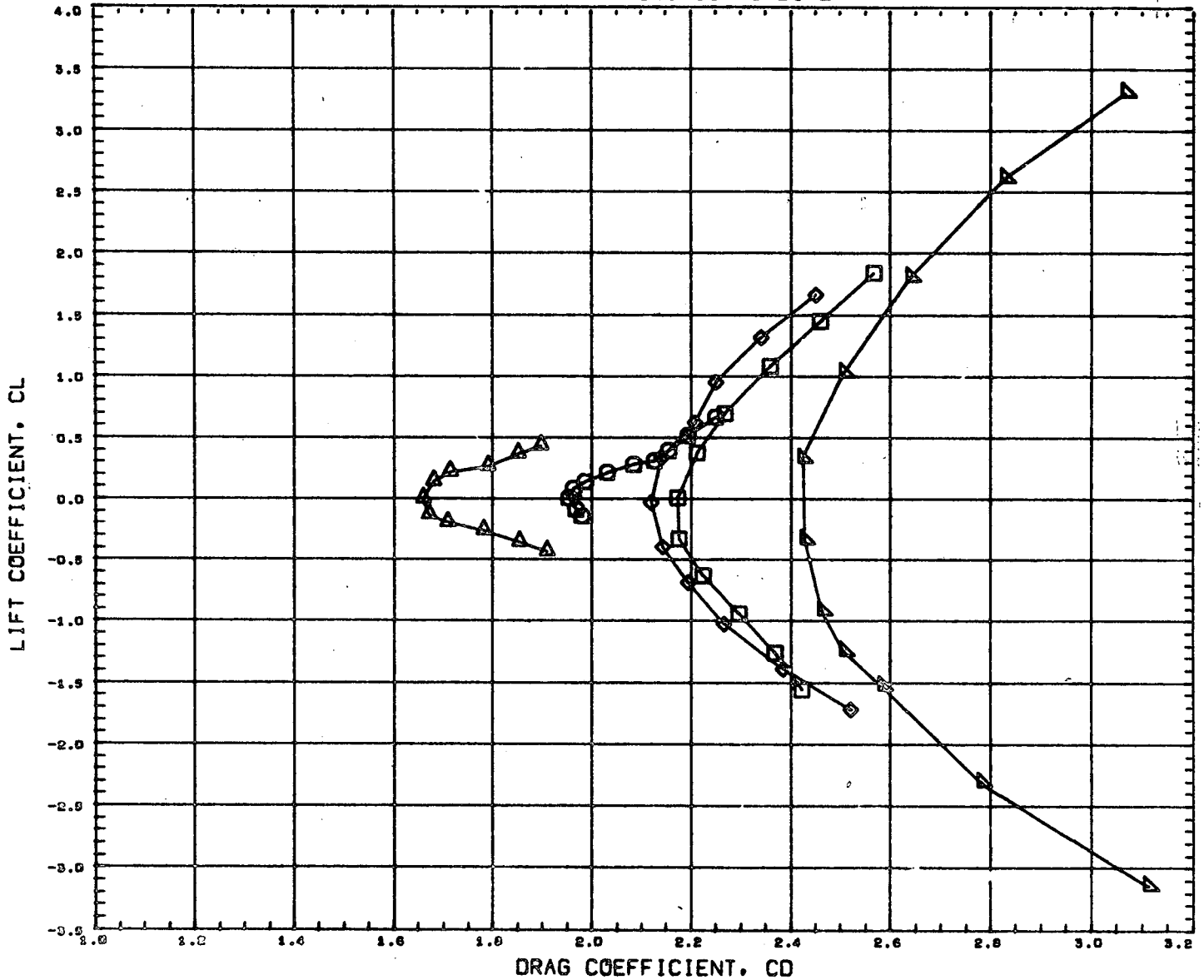
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	FLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(D50330)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	PREF 1.0910 INCHES
(D50290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

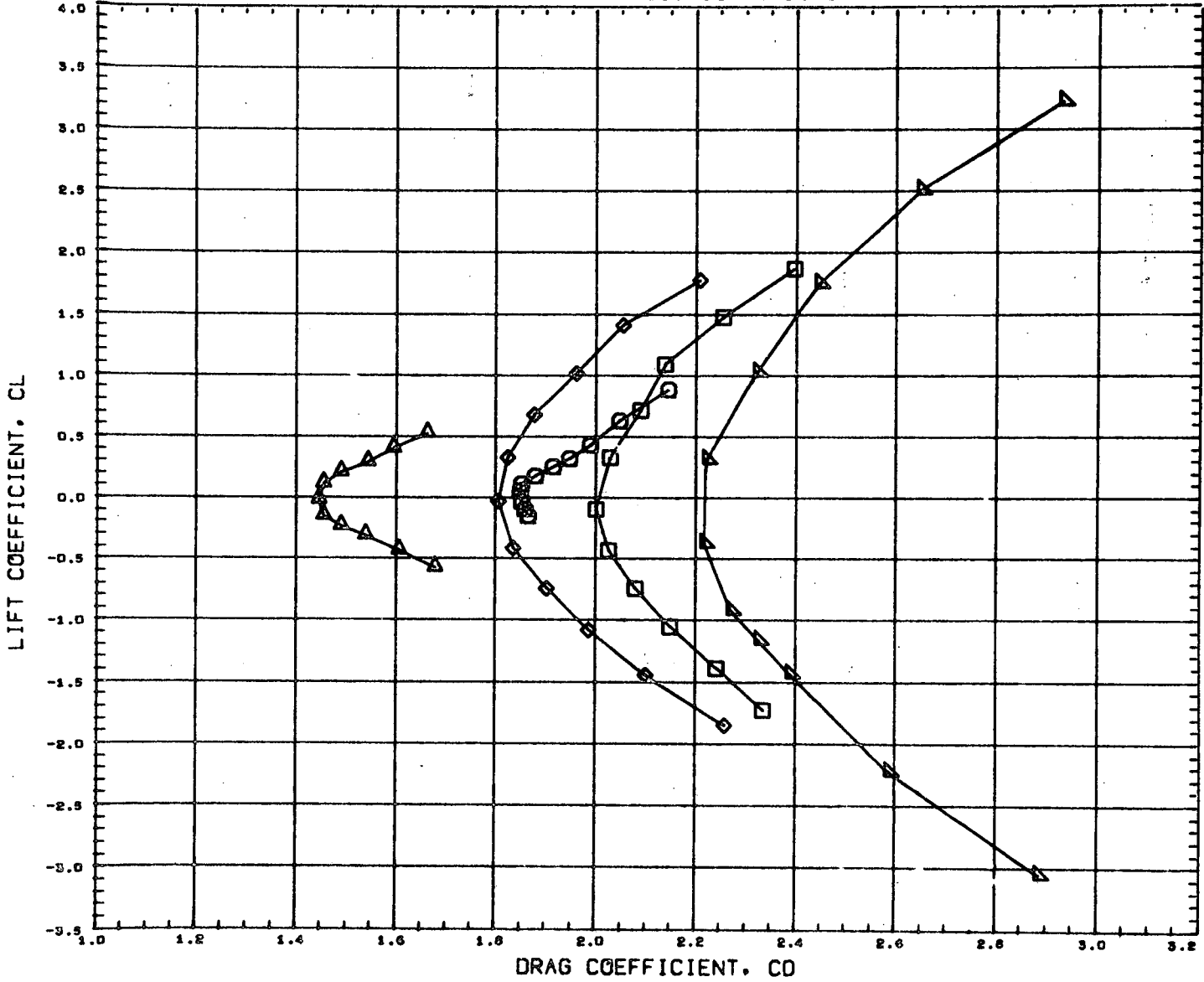
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 90 IN.
(D50330)	MSFC 512 GD/C .003360 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90290)	MSFC 512 GD/C .003360 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E9017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.201

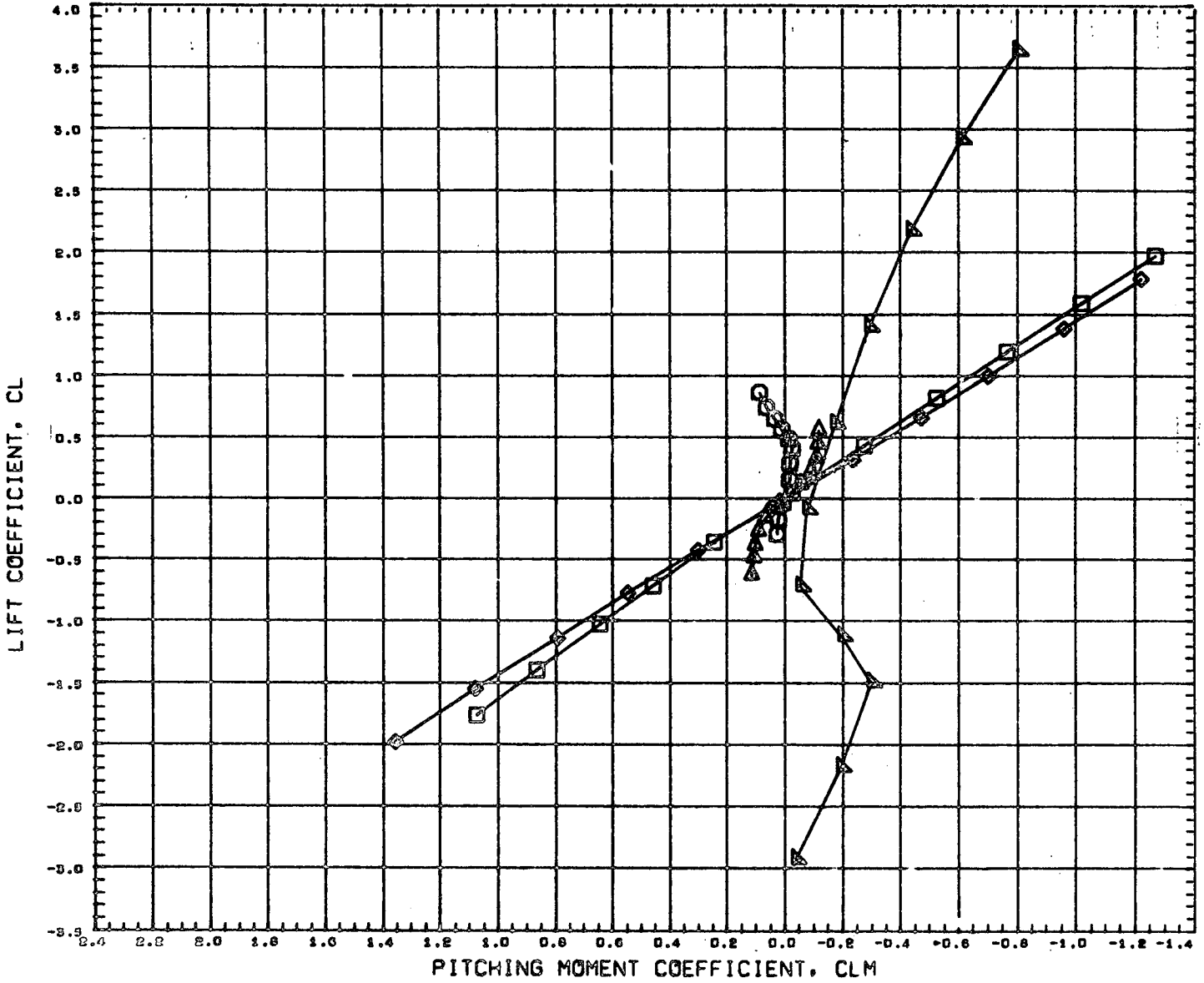
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRF 0.9350 SQ. IN.
(D50330)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XREF 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

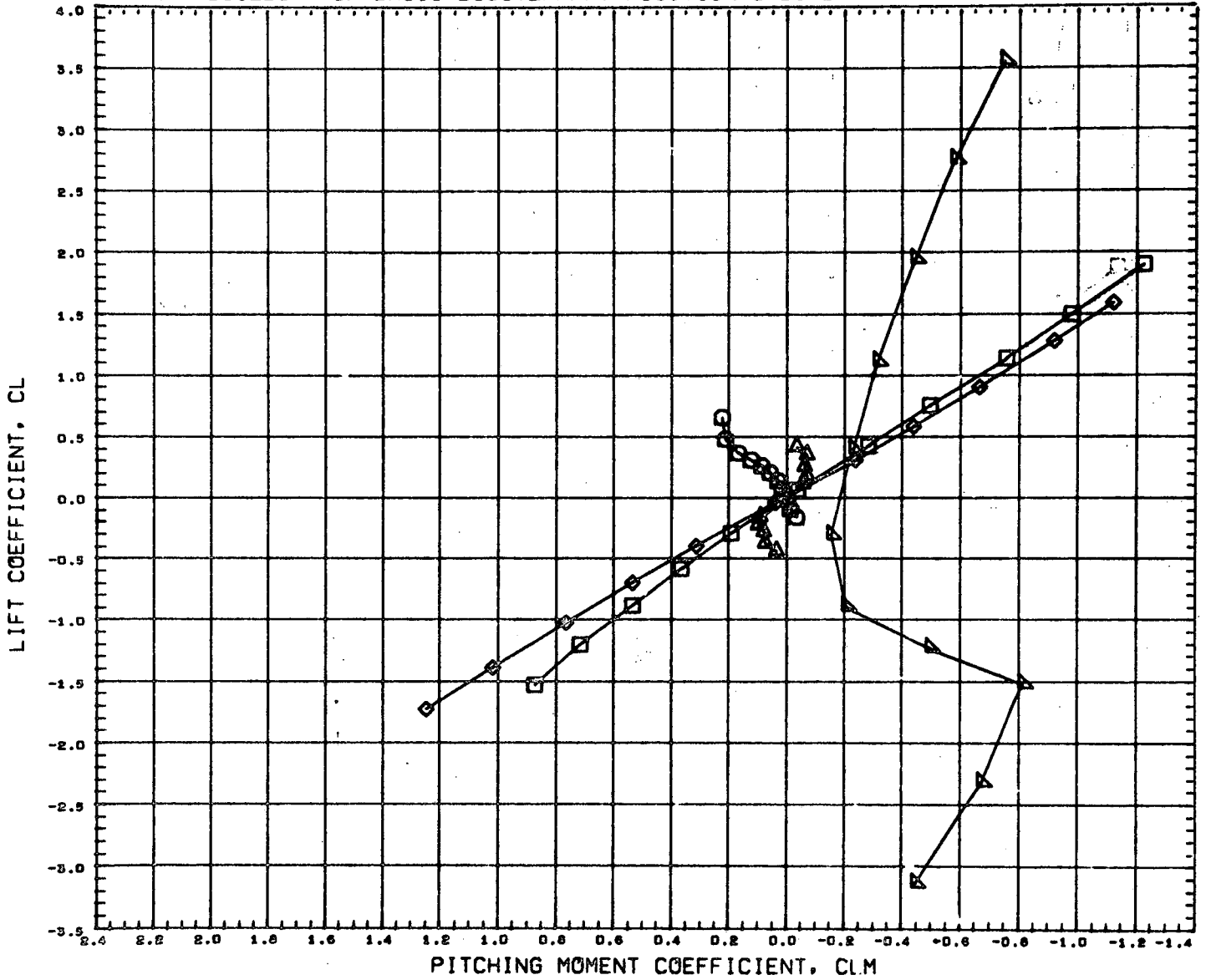
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5D11C)	MSFC 512 GD/C .003500 BOOSTER 034R6	0.000	45.000			SFIF 0.9350 SQ. IN.
(D50390)	MSFC 512 GD/C .003500 BOOSTER 034R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003566 BOOSTER 034R6T30T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50200)	MSFC 512 GD/C .003566 BOOSTER/ORB. 034R6T300: T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5D17A)	MSFC 512 GD/C .003566 BOOSTER/ORB. 034R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.000

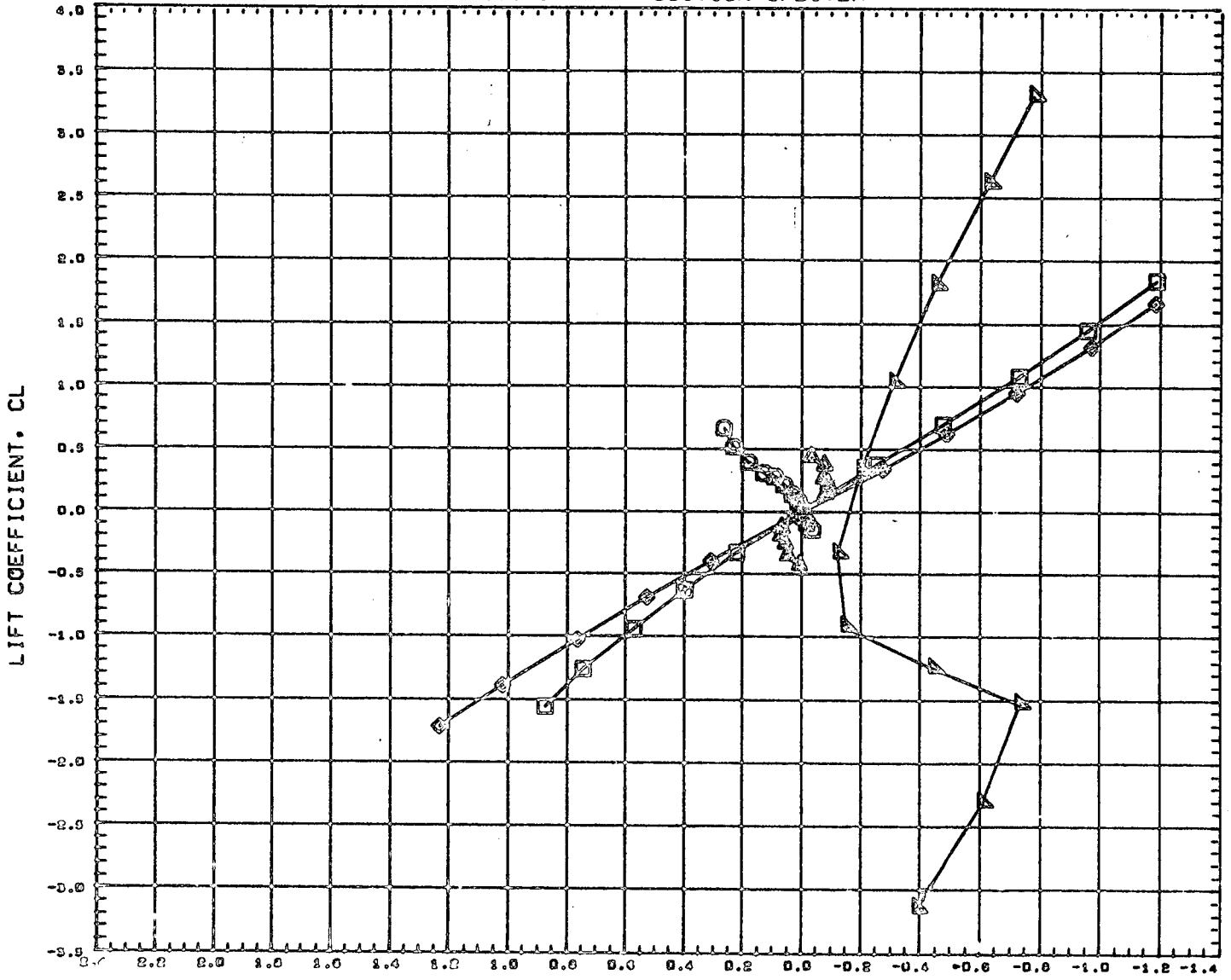
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 89. IN.
(D50330)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50280)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER

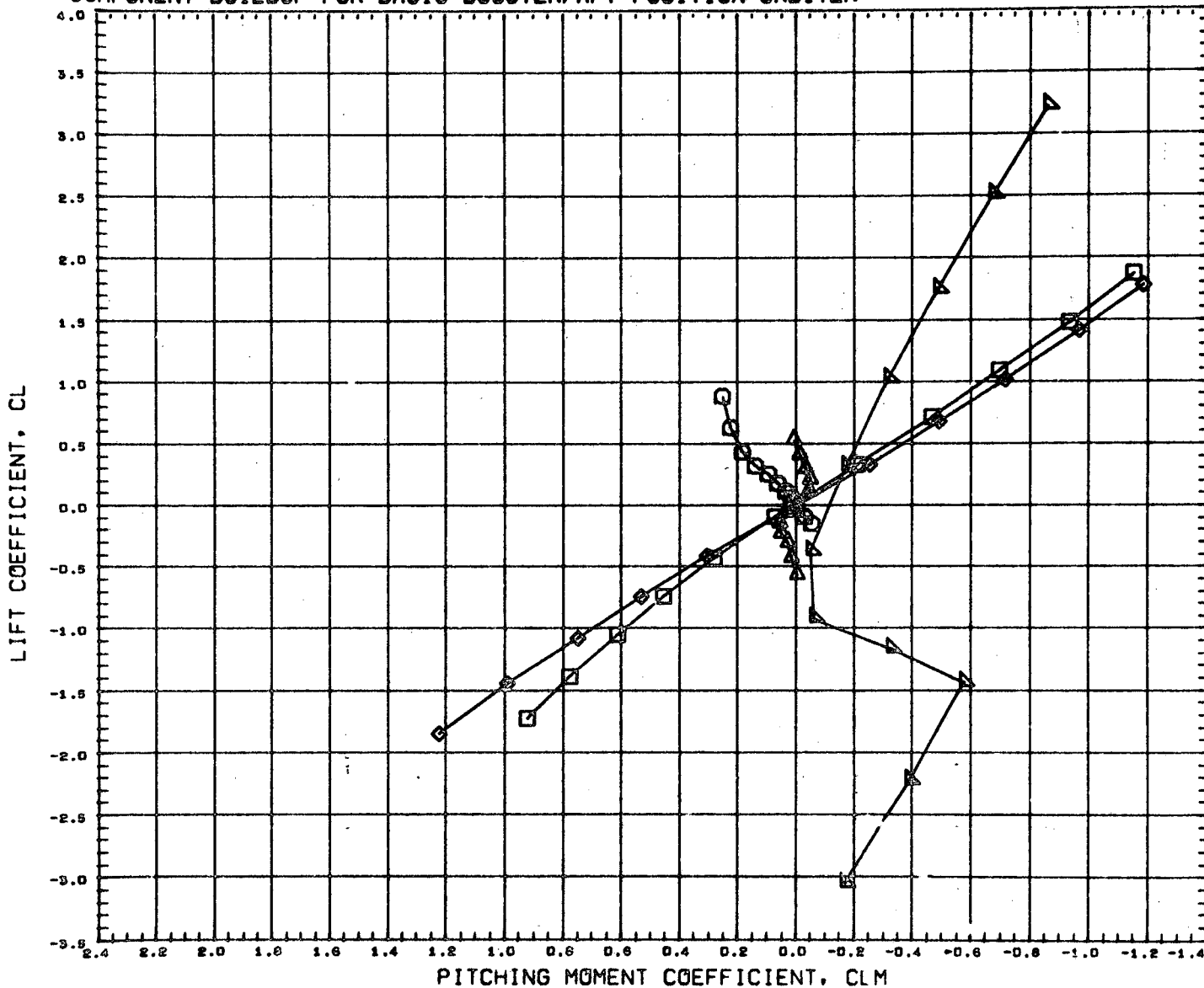


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011C)	WPC 512 6D/C .003300 BOOSTER 034R6	0.000	45.000			SECF 0.9350 36. IN.
(D90330)	WPC 512 6D/C .003300 BOOSTER 034R6T9	0.000	0.000			LREF 6.2310 INCHES
(D90320)	WPC 512 6D/C .003300 BOOSTER 034R6Y80T9	0.000	0.000	0.000	0.000	BREF 1.0010 INCHES
(D90200)	WPC 512 6D/C .003300 BOOSTER/ORD. 034RGT1001T9	0.000	0.000	0.000	0.000	AMRF 3.7920 INCHES
(E9017A)	WPC 512 6D/C .003300 BOOSTER/ORD. 034RGT1002T9	0.000	0.000	0.000	0.000	YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.001

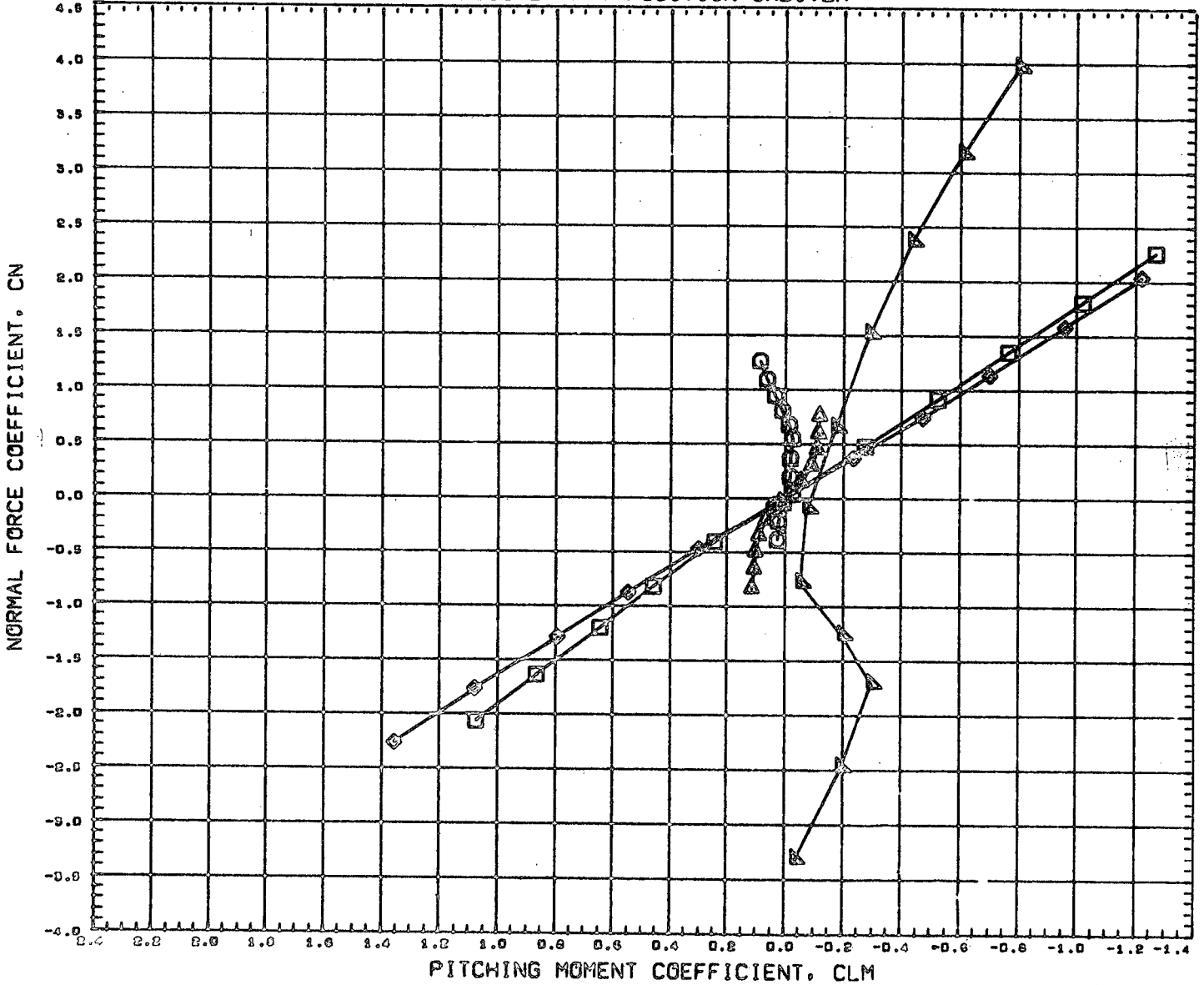
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SCALE 0.9350 80. IN.
(D5033D)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D5032D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5029D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.450

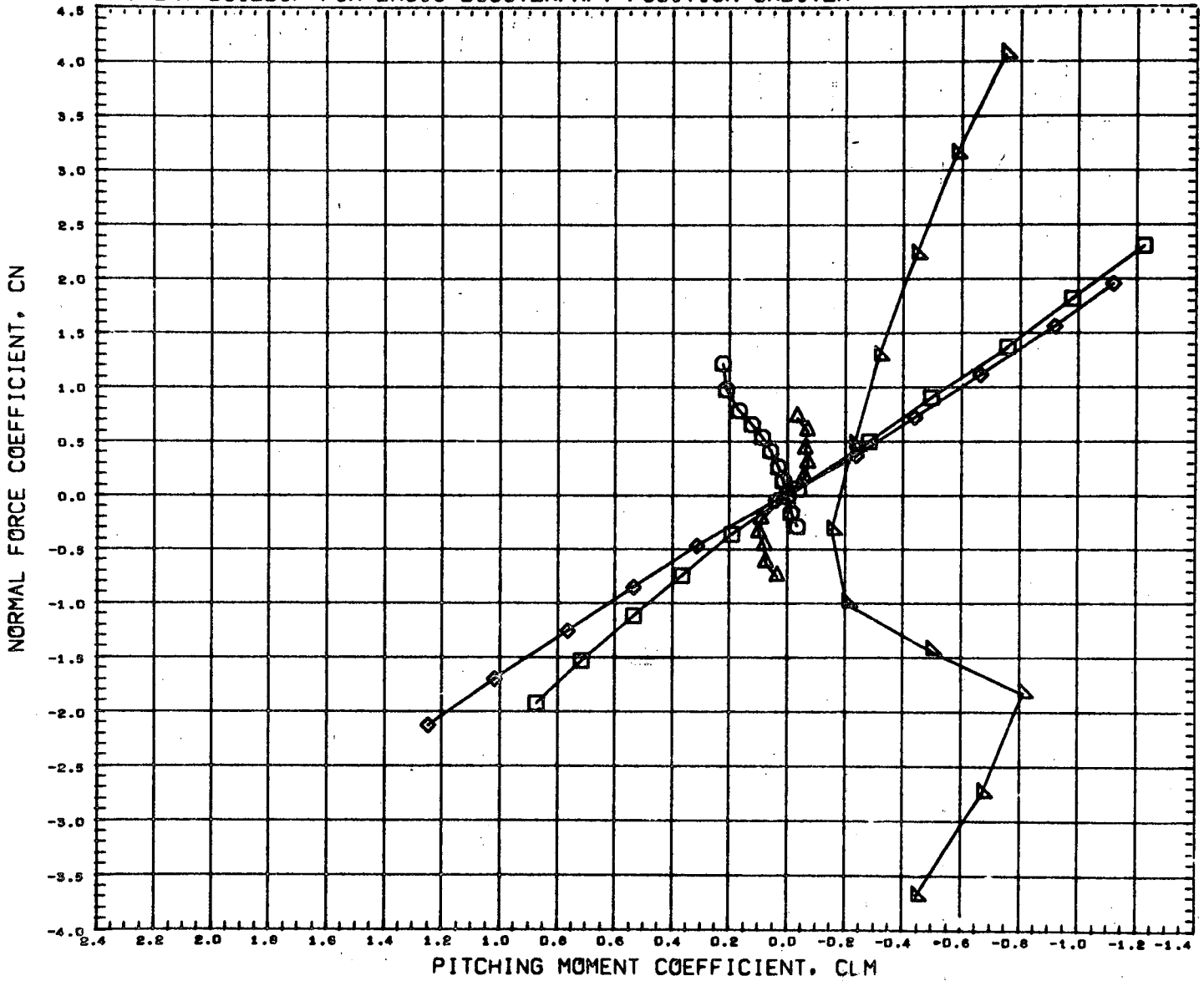
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011C)	H0FC 912 6D/C .003960 BOOSTER B34RG	0.000	45.000			SREF 0.9390 60. IN.
(D5039D)	H0FC 912 6D/C .003960 BOOSTER B34RG73	0.000	0.000			LREF 6.2310 INCHES
(D5032D)	H0FC 912 6D/C .003960 BOOSTER B34RG710T9	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5028D)	H0FC 912 6D/C .003960 BOOSTER/CRU. B34RG71004T9	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E9017A)	H0FC 912 6D/C .003960 BOOSTER/ORD. B34RG71002T9	0.000	0.000	0.000	0.000	ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.000

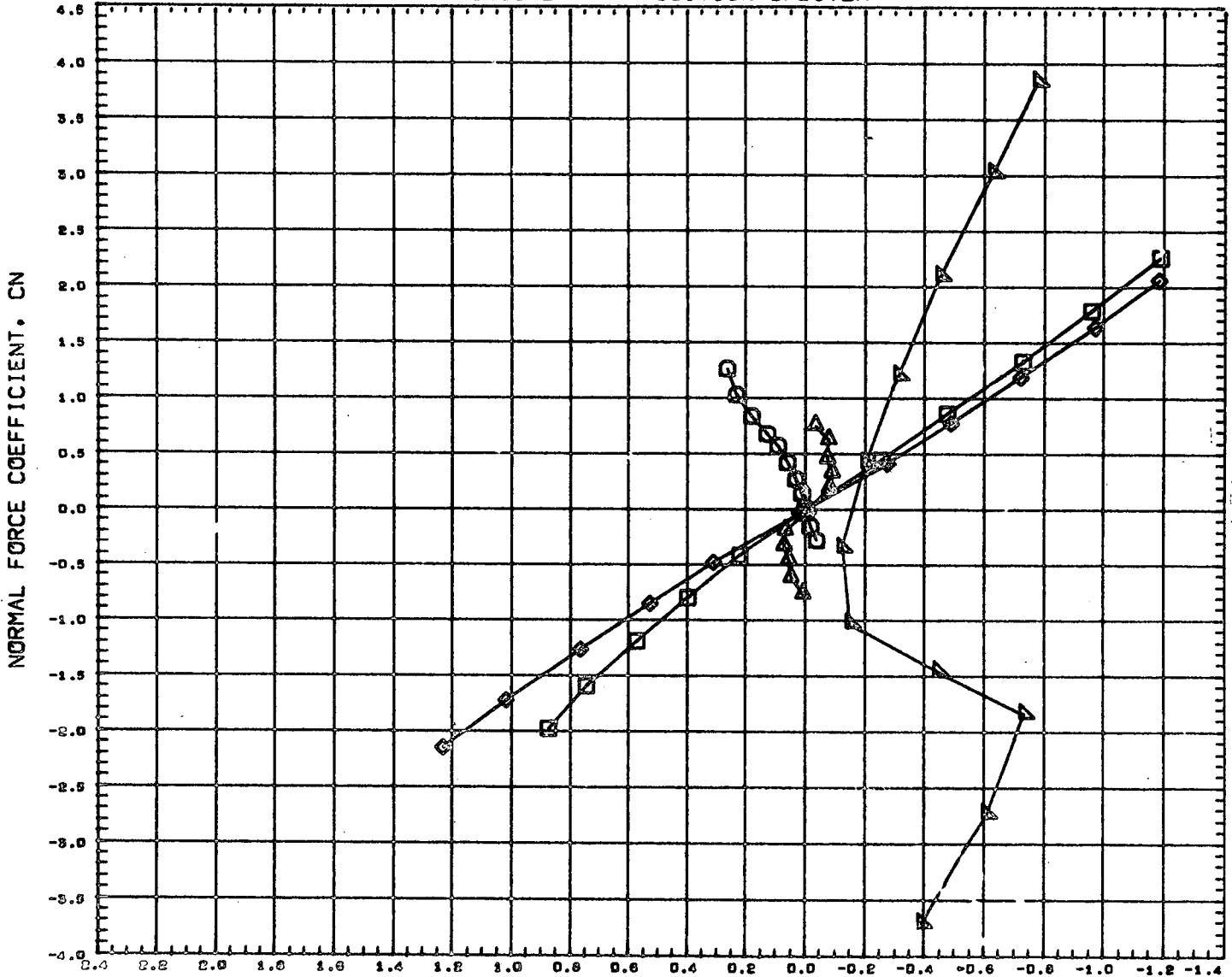
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011C)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			S:ZF 0.9350 50. IN.
(D50350)	MSFC 512 GD/C .003366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2510 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T1DT3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50290)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	AMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMHP 0.0000 INCHES ZMHP 0.0000 INCHES SCALE 0.0034

MACH 1.101

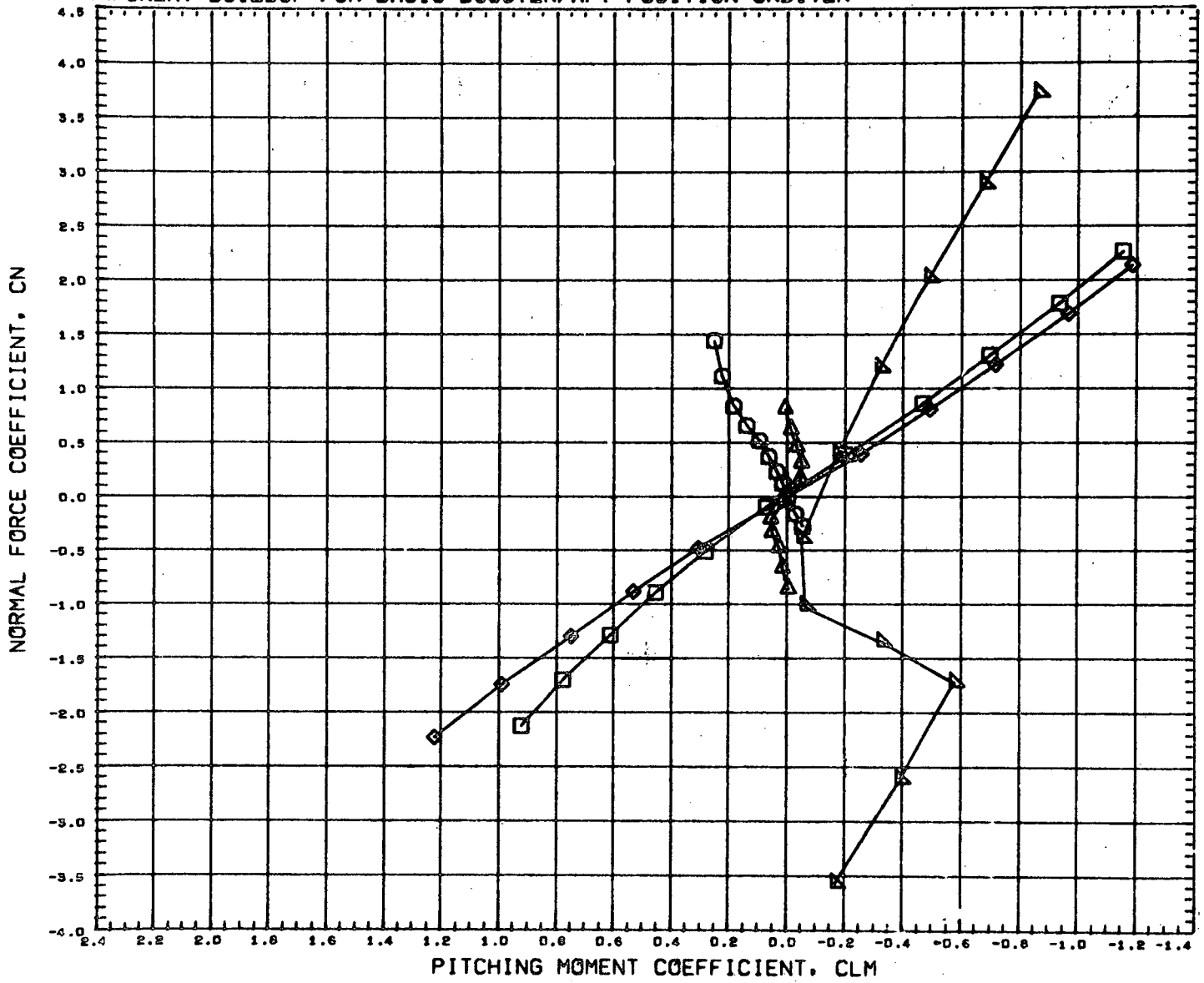
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	MSFC 512 GD/C .003933 BOOSTER B34R6	0.000	45.000			SRFP 0.9350 SQ. IN.
(D50350)	MSFC 512 GD/C .003936 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(O50320)	MSFC 512 GD/C .003966 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(O50290)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T10O4T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER

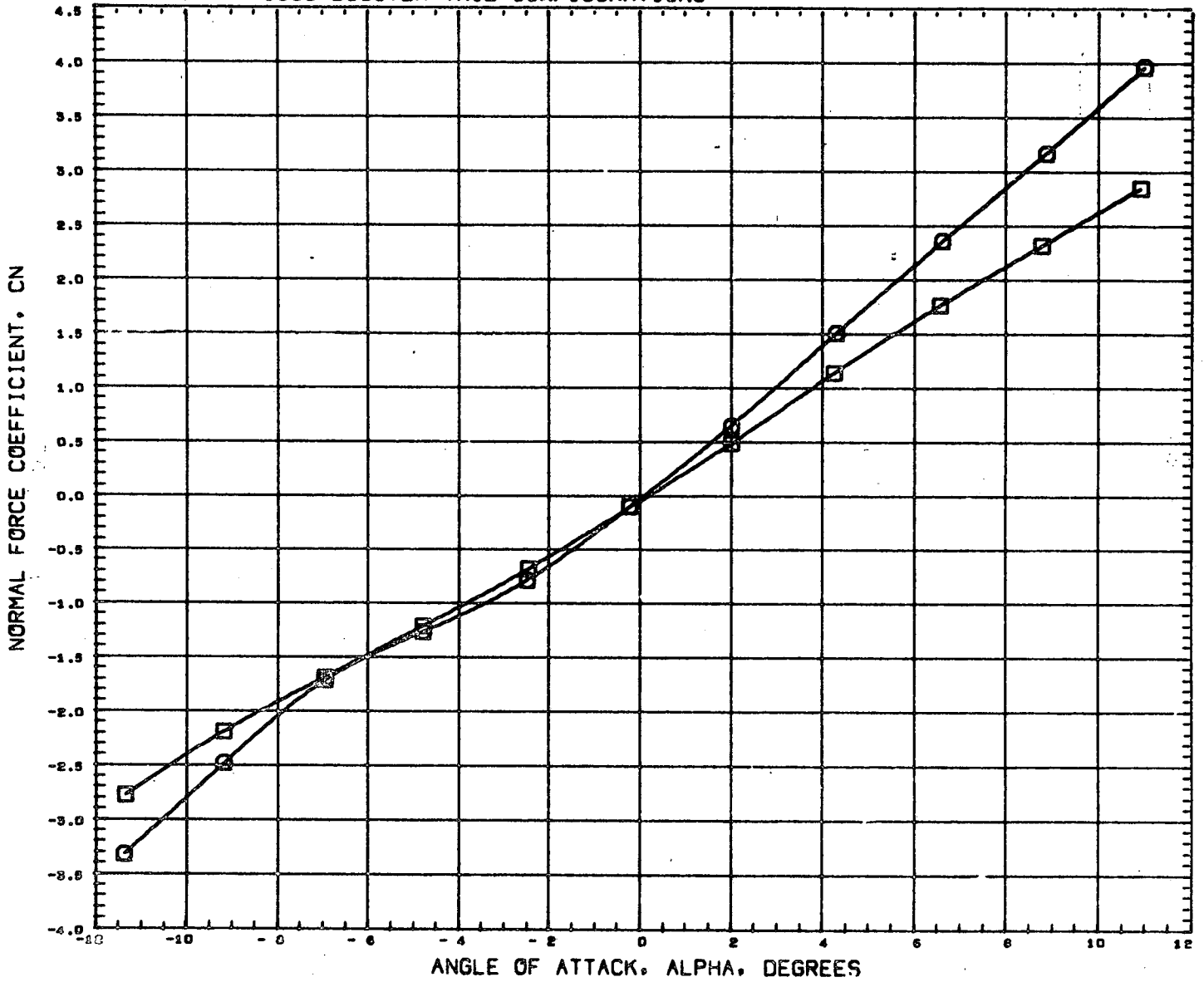


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011C)	M8FC 512 GD/C .00366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 90.IN.
(D90330)	M8FC 512 GD/C .00366 BOOSTER B34R6T3	0.000	0.000			LREF 6.2310 INCHES
(D90320)	M8FC 512 GD/C .00366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	RREF 1.0910 INCHES
(D90290)	M8FC 512 GD/C .00366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E5017A)	M8FC 512 GD/C .00366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.456

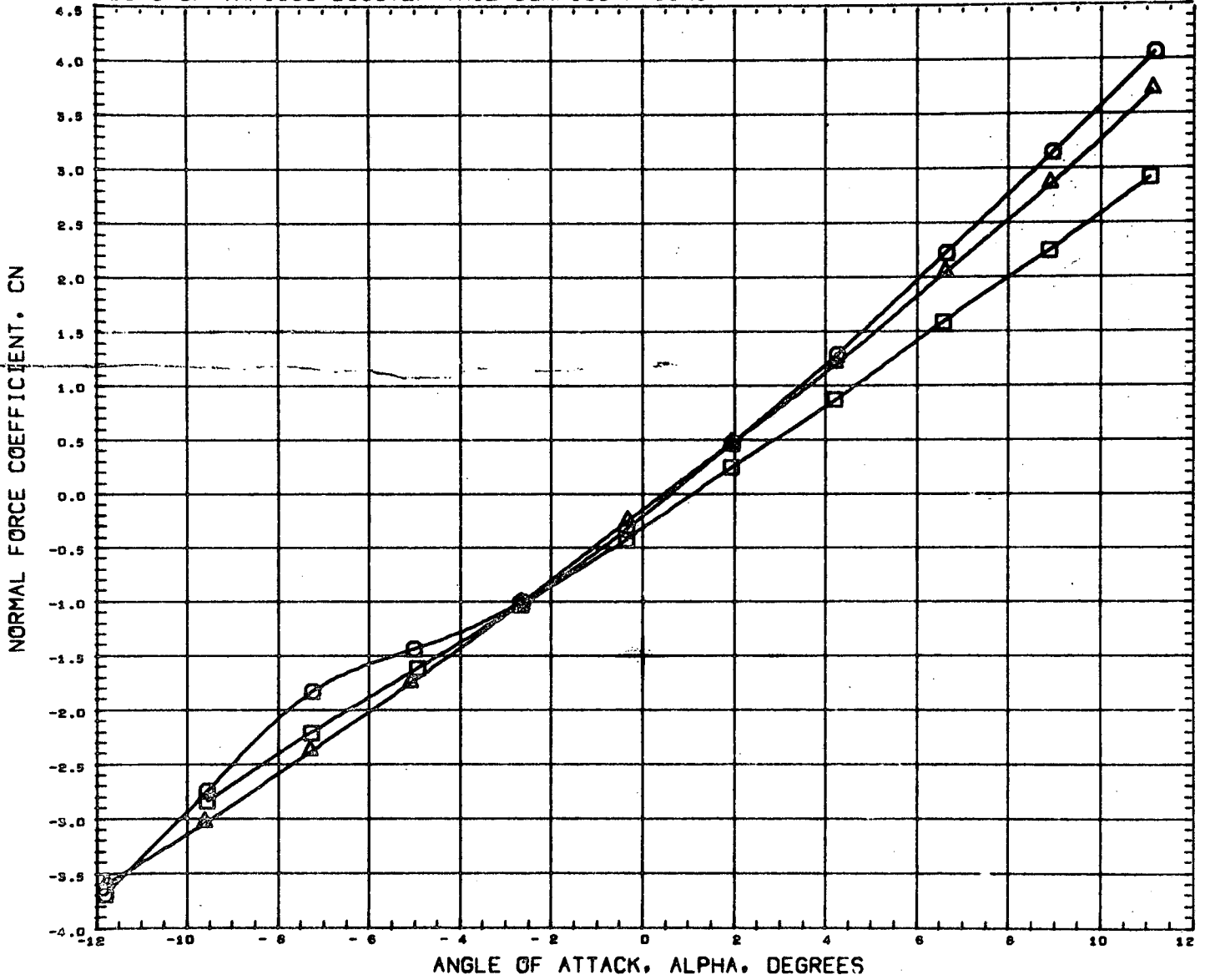
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E9D17D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(D5D18D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D5D26D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D5D24D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6O2T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.899

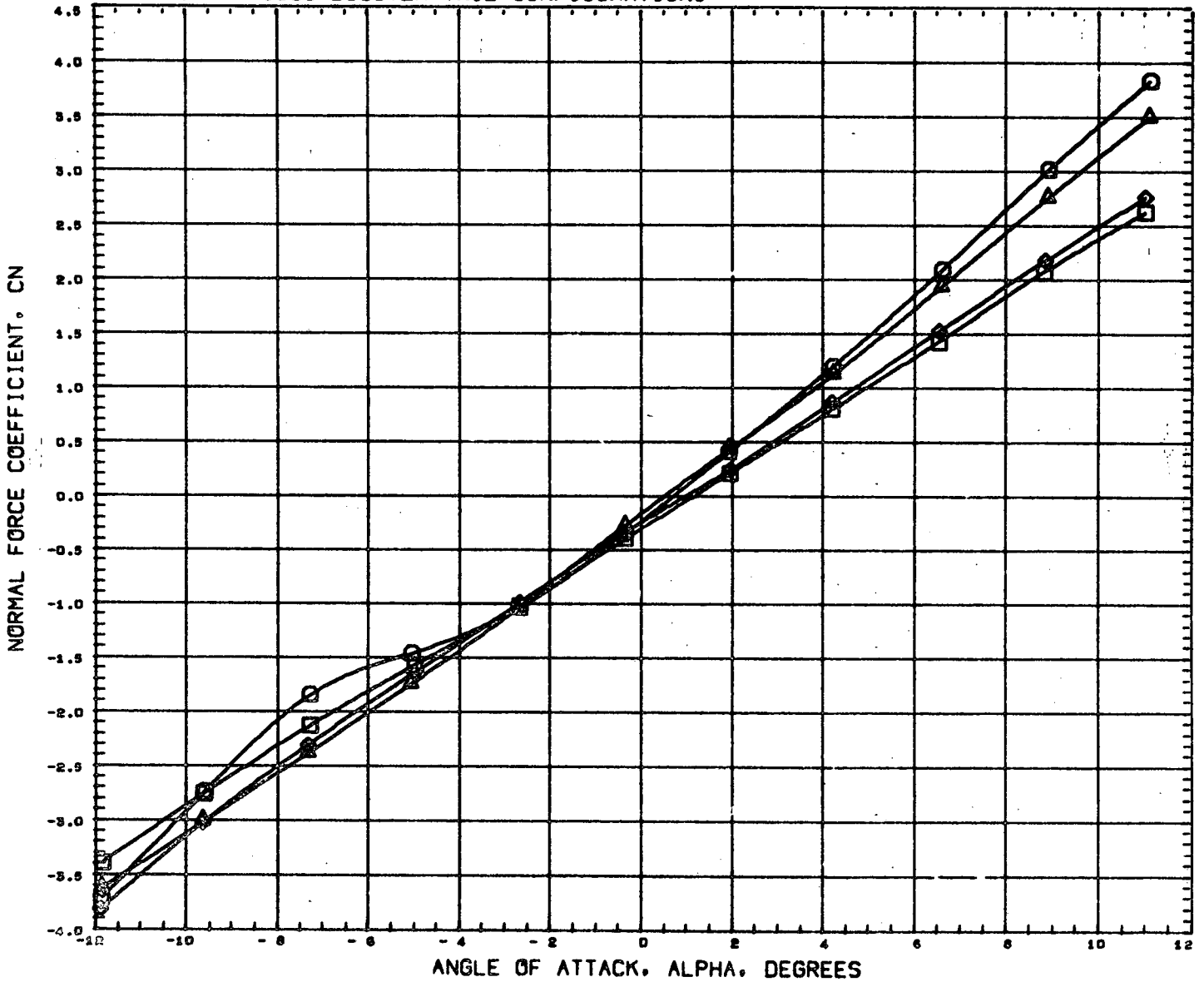
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50178)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(D50180)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50260)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			XMR ²	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.101

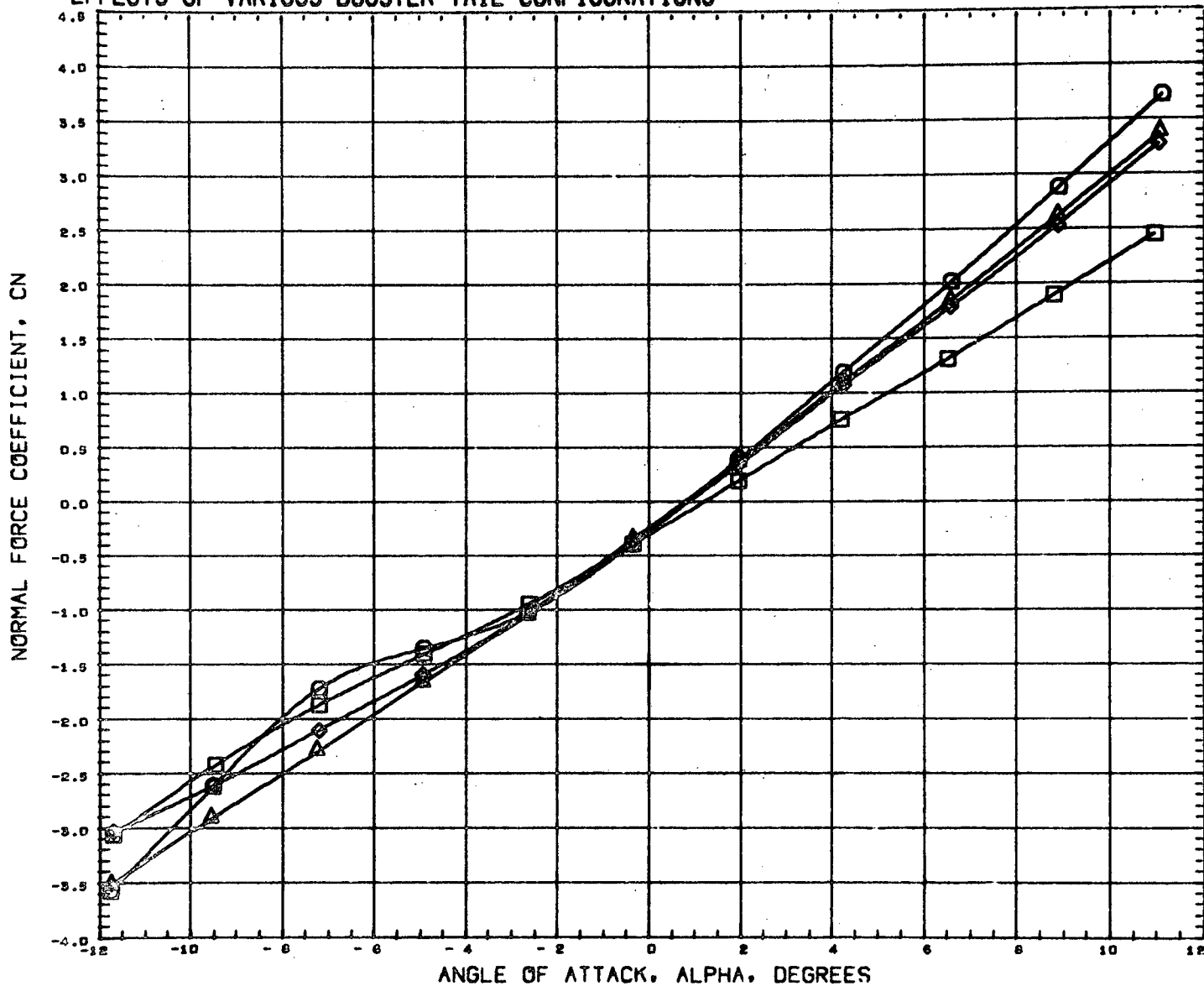
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90170)	MSFC 512 GD/C .003330 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(D50180)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			XHRP	3.7920 INCHES
						YHRP	0.0000 INCHES
						ZHRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.806

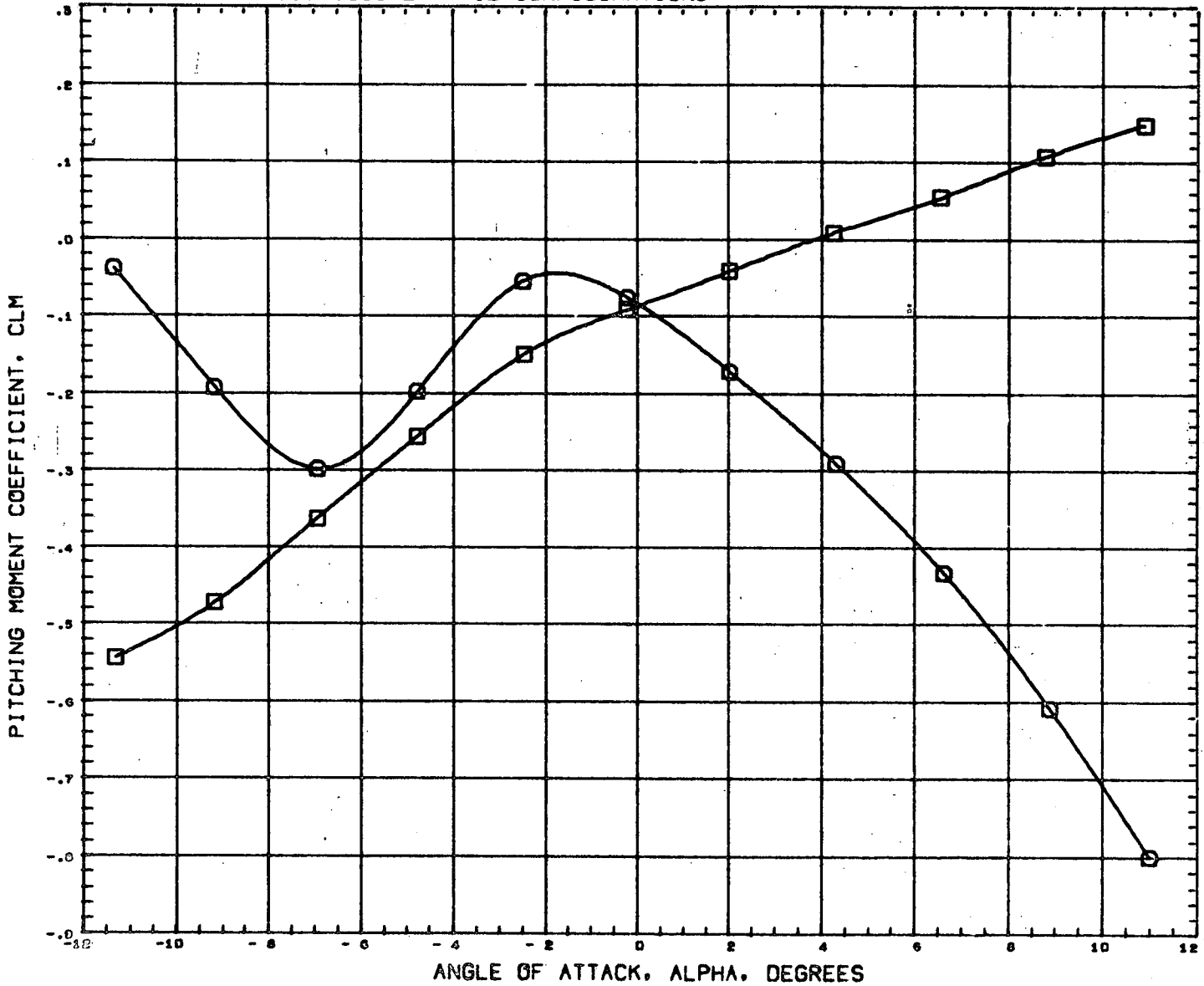
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50170)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	S.EF 0.9350 SQ. IN.
(D50180)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			AMRP 3.7920 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 1.466

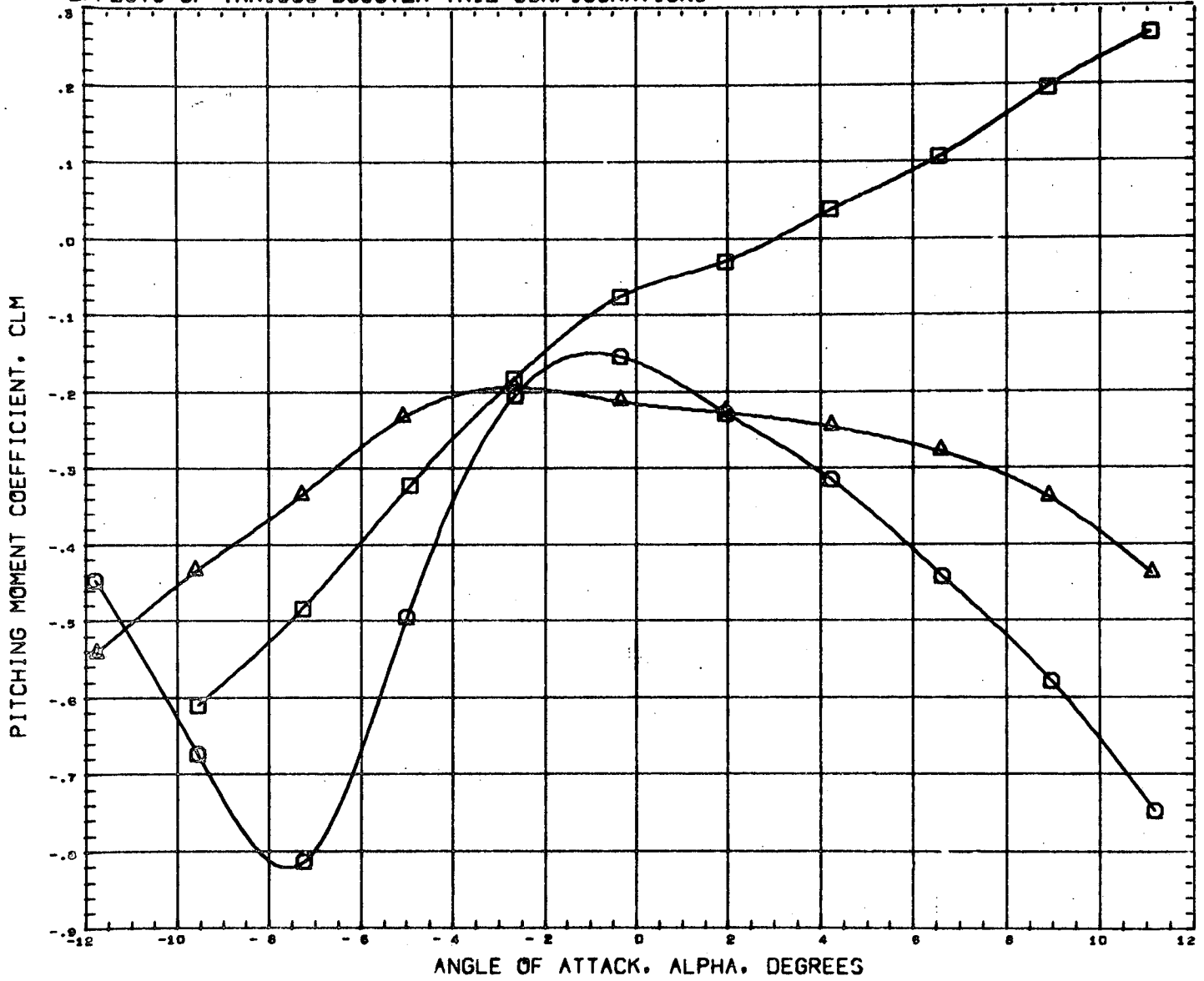
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E80178)	MSFC 512 GD/C .003366 BOOSTER/ORB, B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 80.1N.
(D50180)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50260)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50240)	MSFC 512 GD/C .003365 BOOSTER/ORB, B34R6O2T3	0.000	0.000			XMPF	3.7920 INCHES
						YMPF	0.0000 INCHES
						ZMPF	0.0000 INCHES
						SCALE	0.0034

MACH 0.090

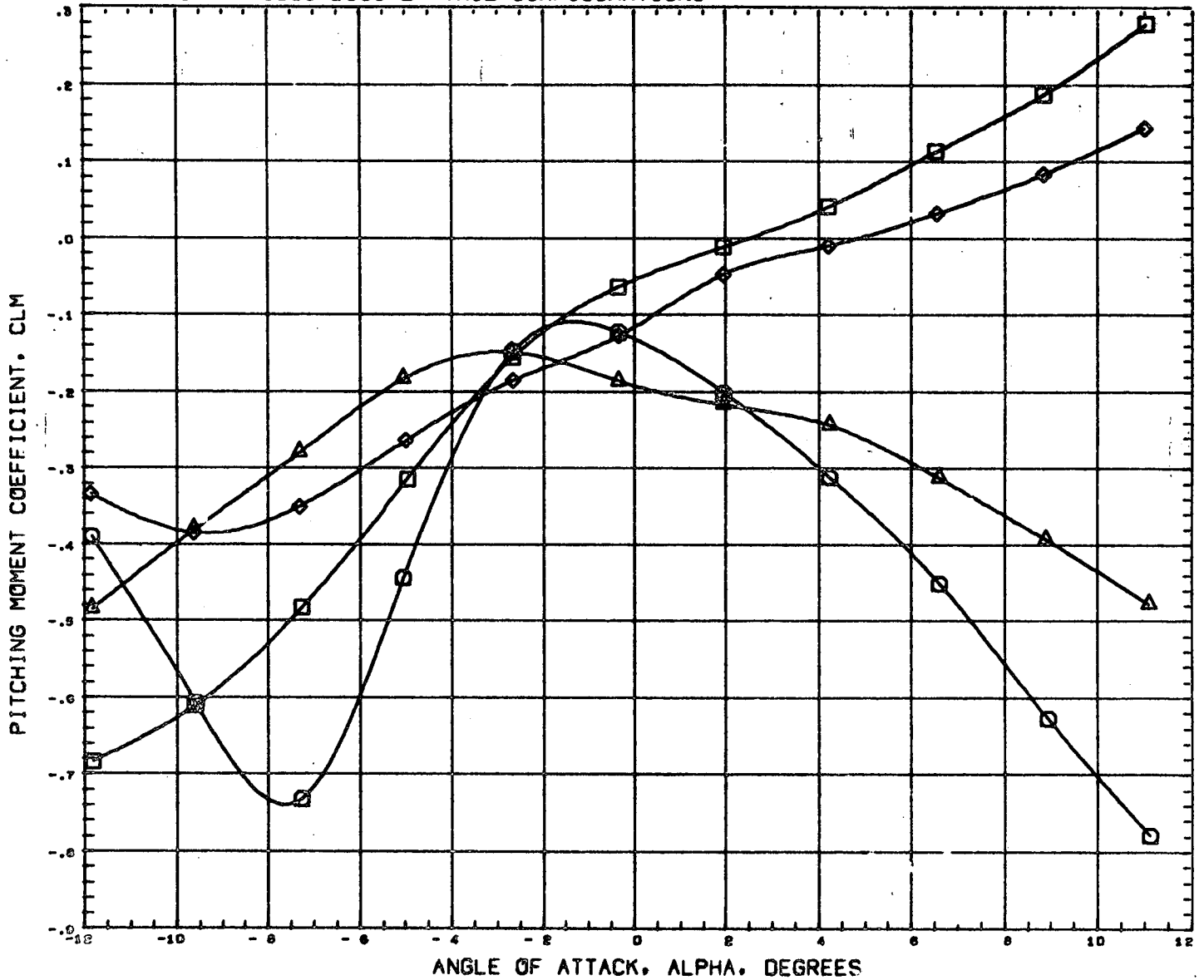
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50178)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50180)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50260)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6O2T3	0.000	0.000			XMR 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

HACH 1.101

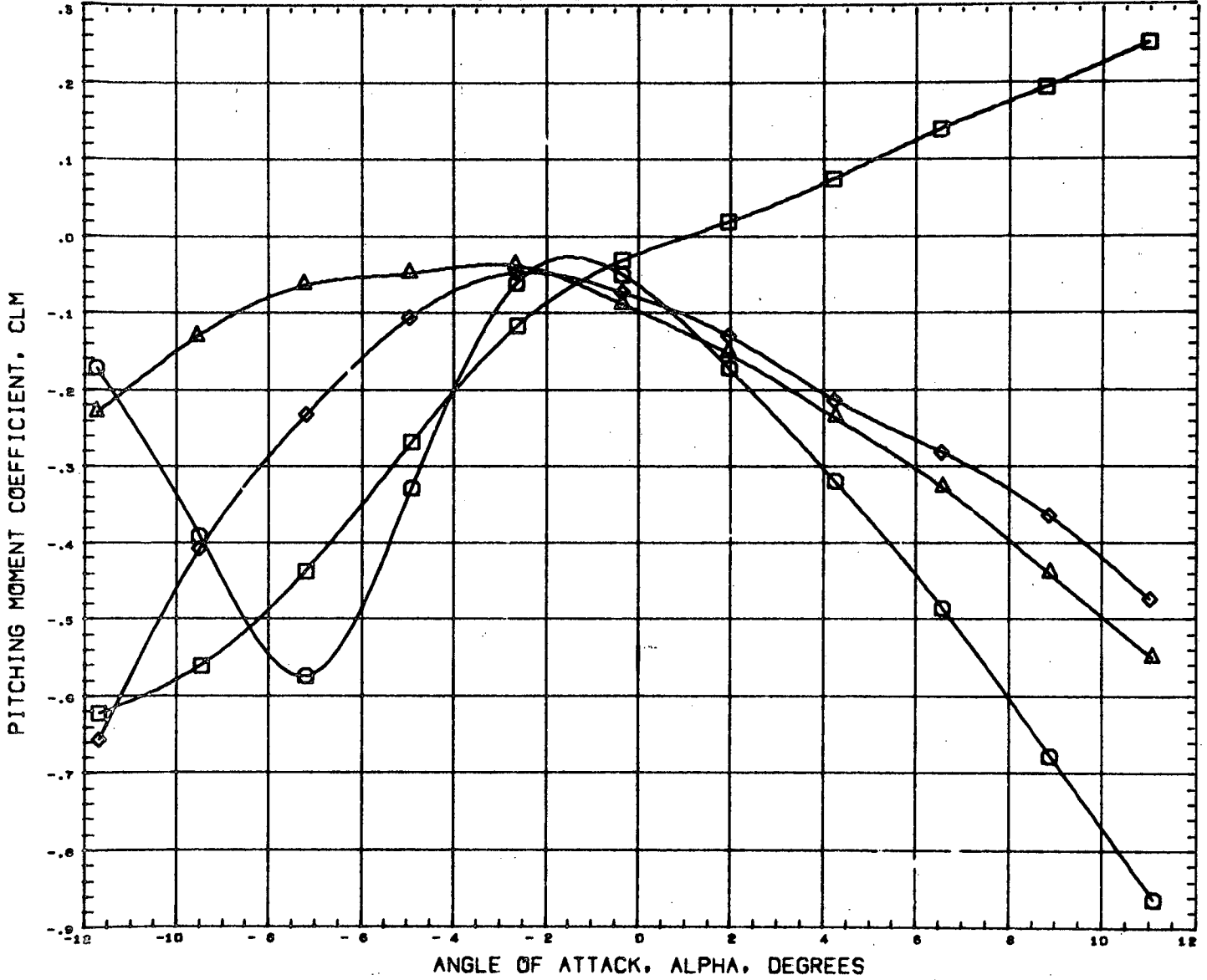
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5017B)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SNCF	0.9350 80. IN.
(D90160)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D90260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D90240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.203

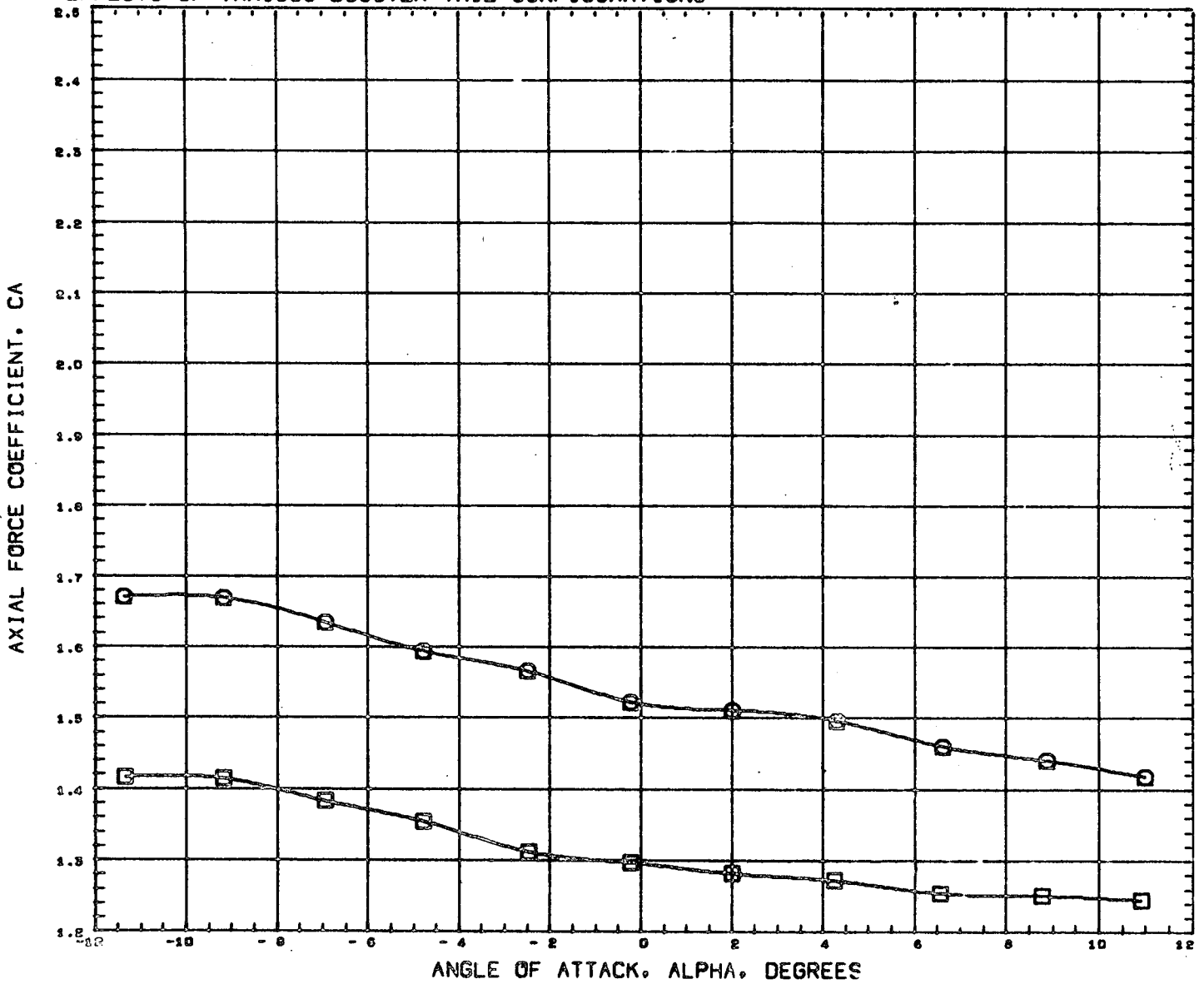
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90178)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SR _{REF}	0.9350 80.1N.
(D50180)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50280)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6O2T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.464

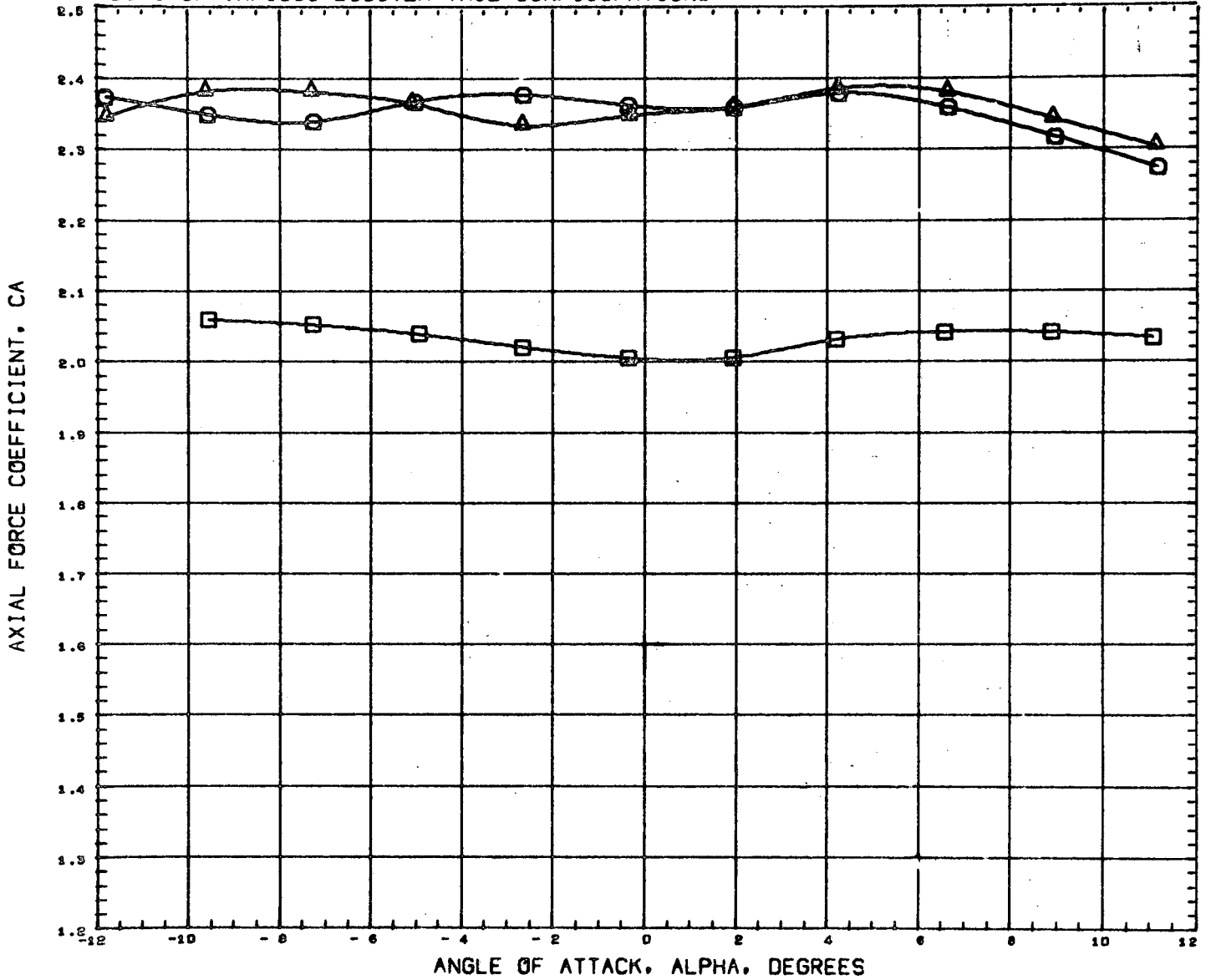
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5017B)	MSFC 512 CD/C .003933 BOOSTER/ORB. B34R6T1D02T9	0.000	0.000	0.000	0.000	SNLF	0.9350 89. IN.
(D5018D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D5026D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D5024D)	MSFC 512 CD/C .003936 BOOSTER/ORB. B34R602T9	0.000	0.000			XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.8911

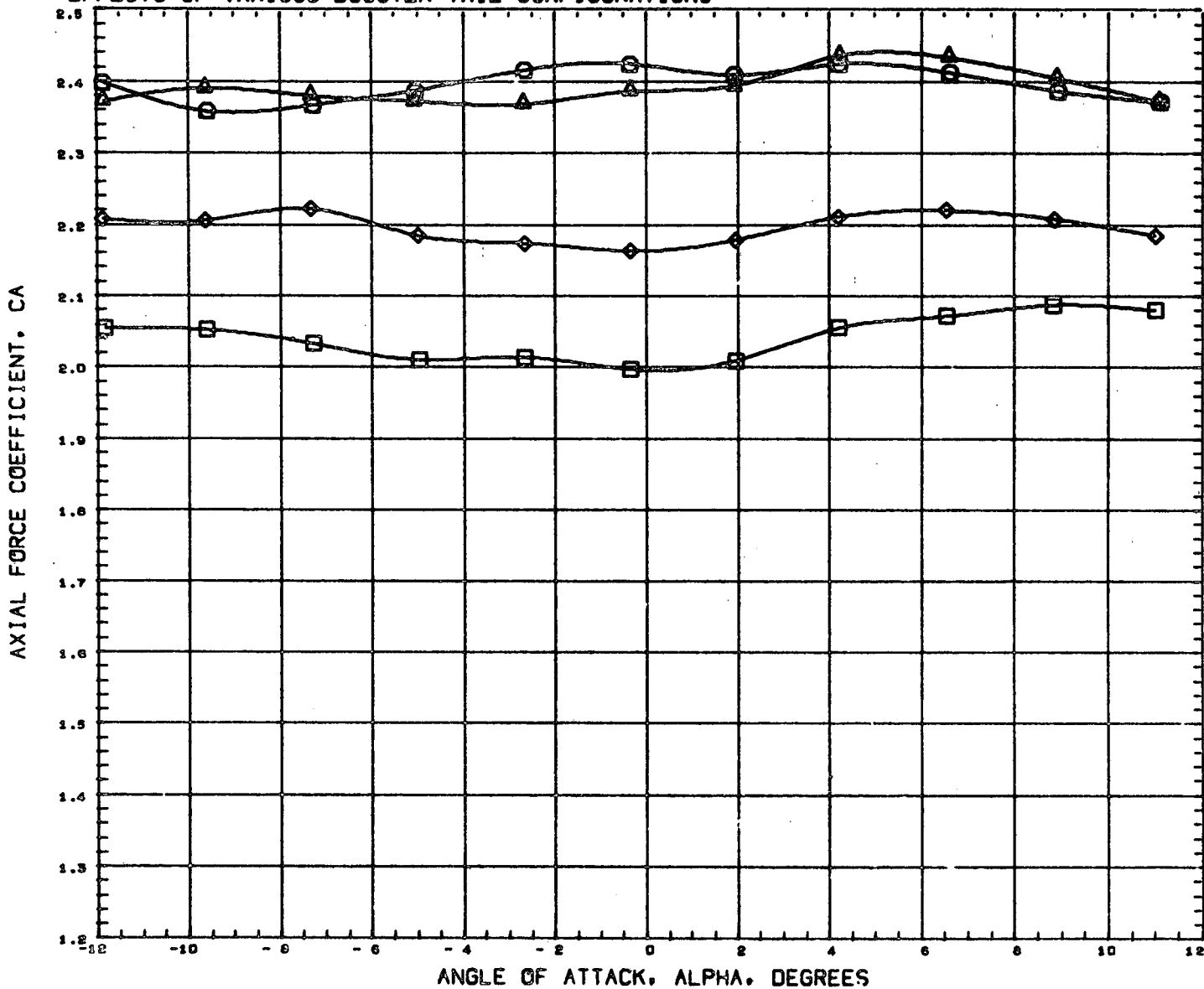
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50175)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(D50180)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50200)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50240)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R6O2T3	0.000	0.000	0.000	0.000	XMRF	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.101

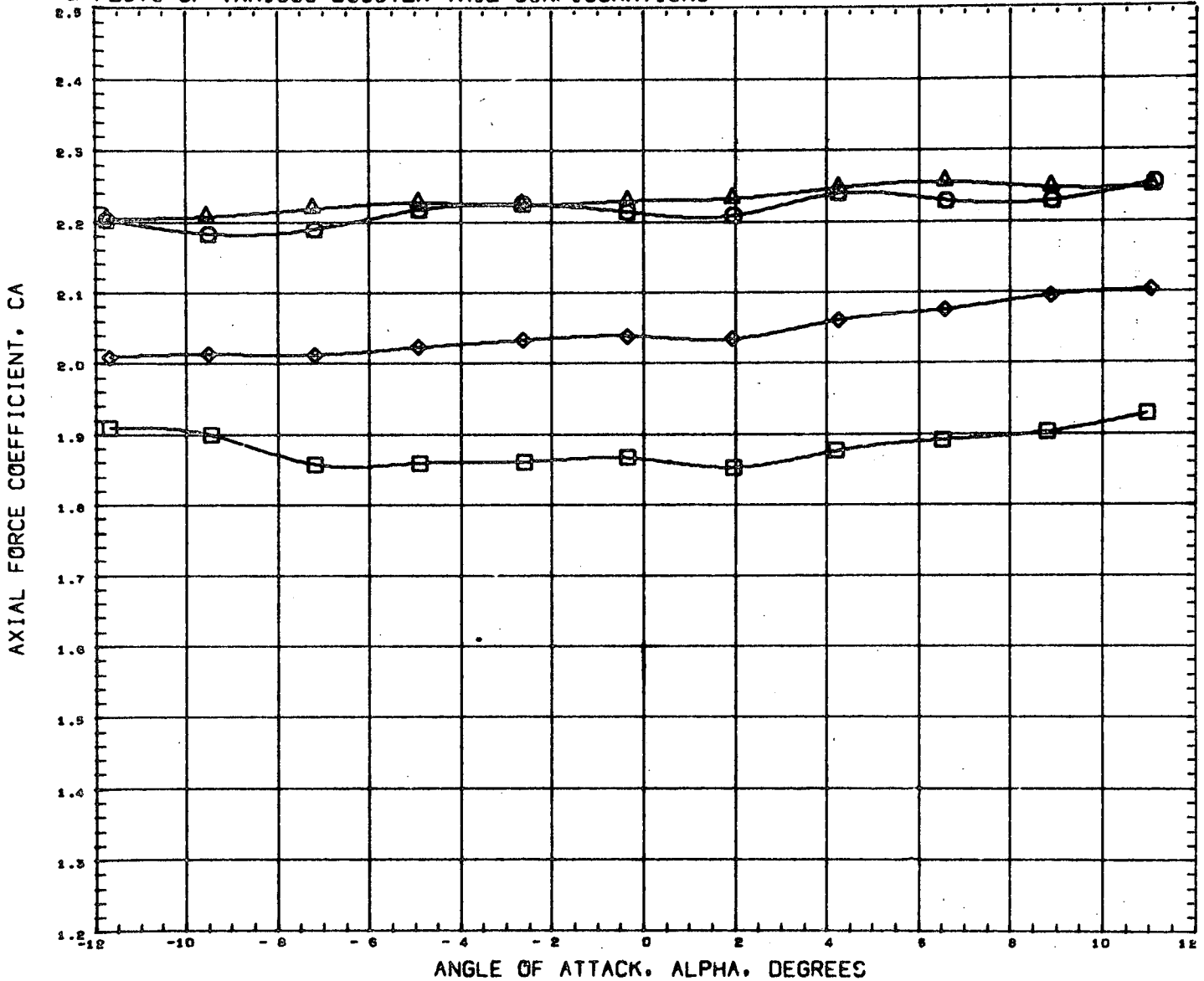
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5017B)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF 0.9350 SQ. IN.
(D50180)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.206

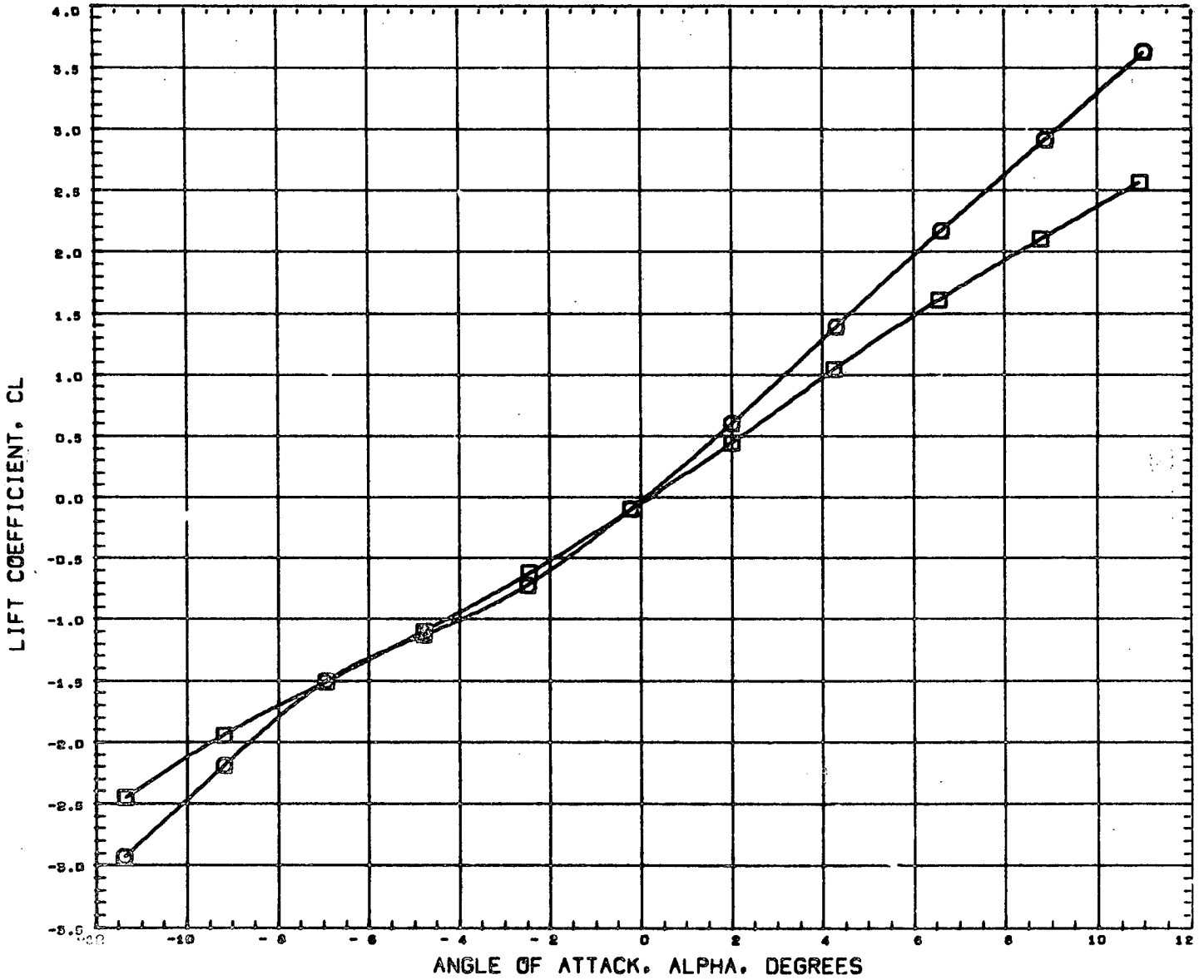
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50170)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50180)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10C2T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	AREF 1.0910 INCHES
(D50240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.461

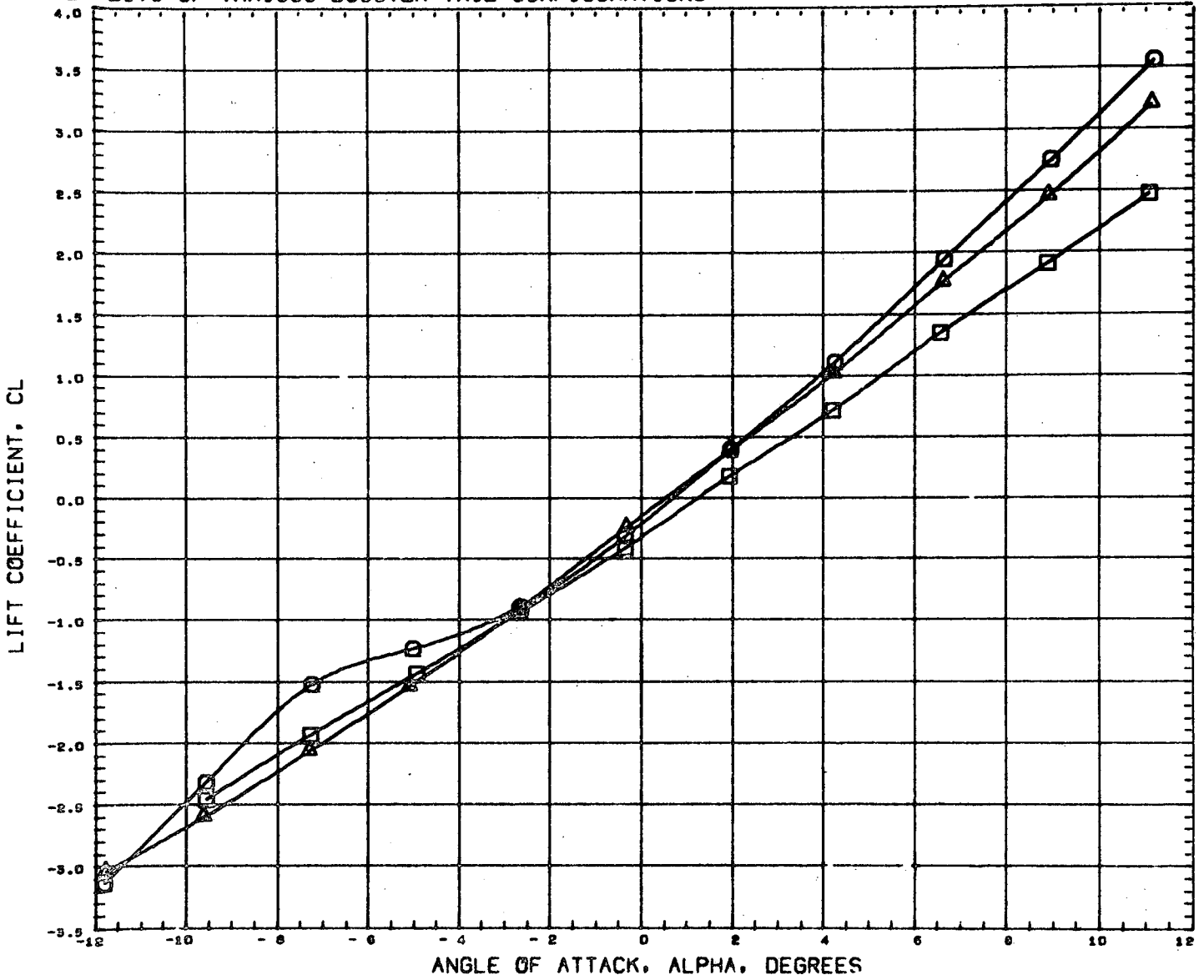
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5017D)	MBFC 512 GD/C .003360 BOOSTER/ORD. B34RGT1002T3	0.000	0.000	0.000	0.000	WREF	0.9350 SQ. IN.
(D5016D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	49.000	0.000	0.000	LREF	6.2310 INCHES
(D5026D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D5024D)	MBFC 512 GD/C .003366 BOOSTER/ORD. B34R602T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.1199

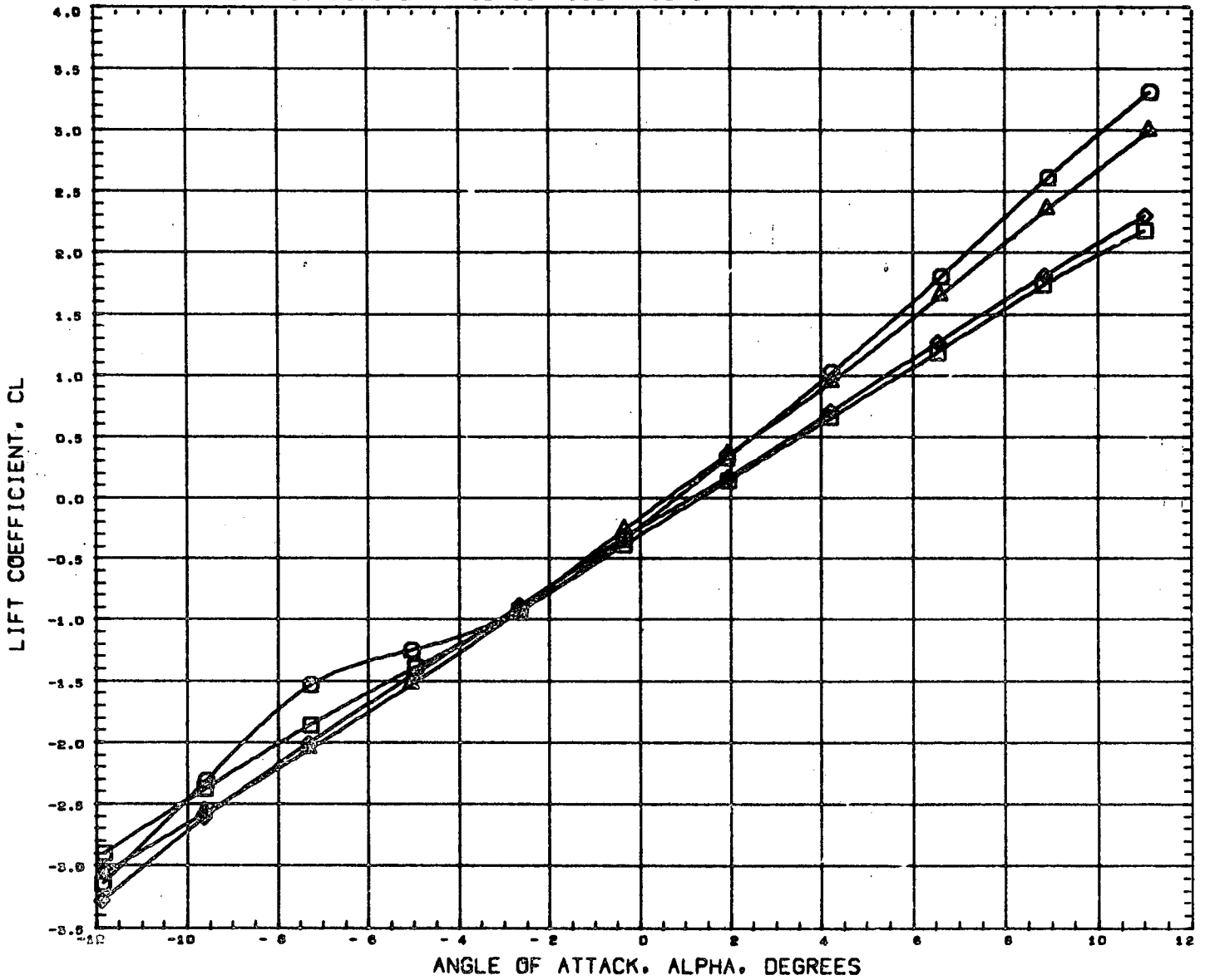
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90179)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	S.EF 0.9350 SQ. IN.
(D90180)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50260)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50260)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R602T3	0.000	0.000			AMR ^P 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.101

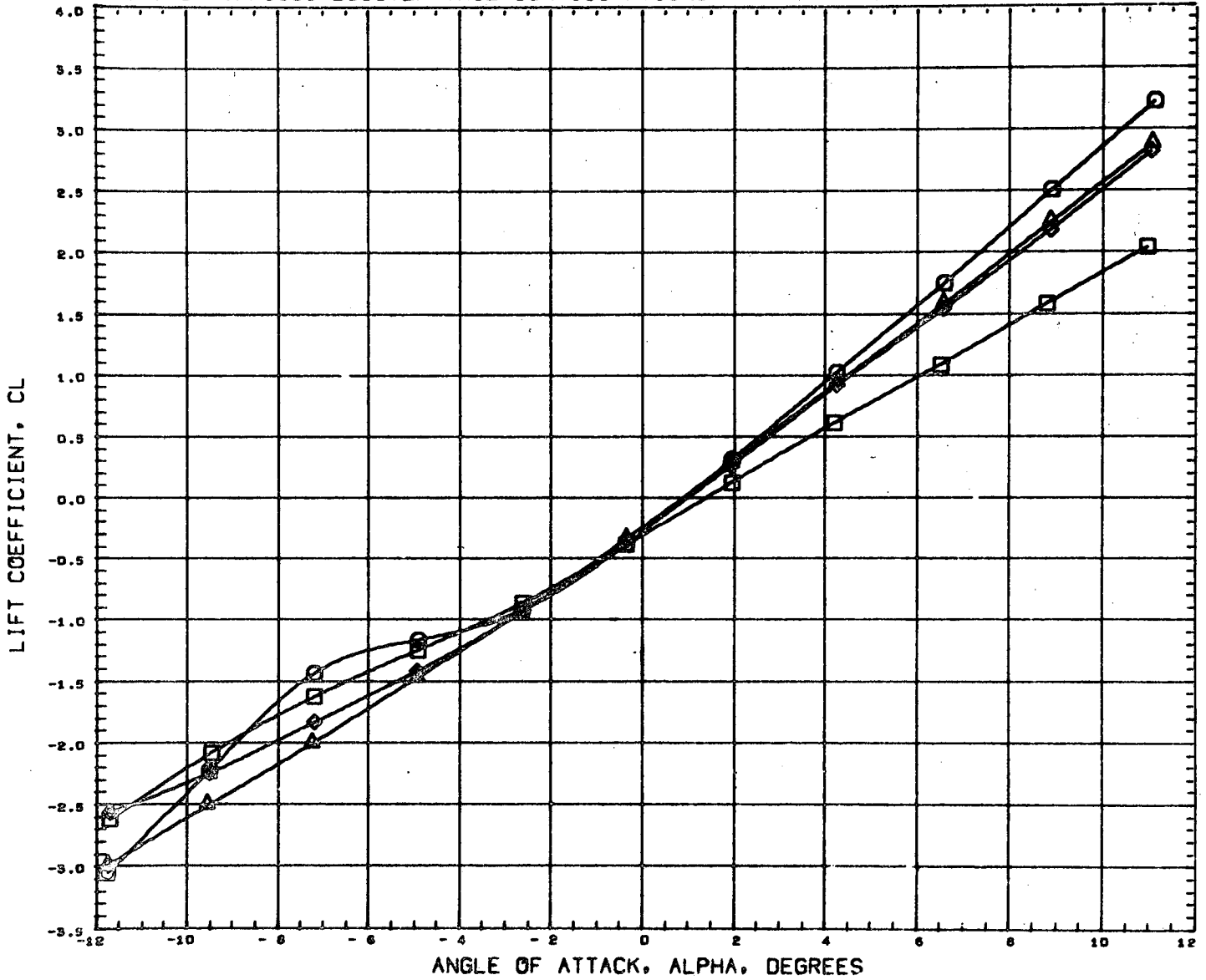
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5017B)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34RGT1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 59. IN.
(D5018D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34RGT1002T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D5026D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34RGT3202T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D5024D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			XMR	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.206

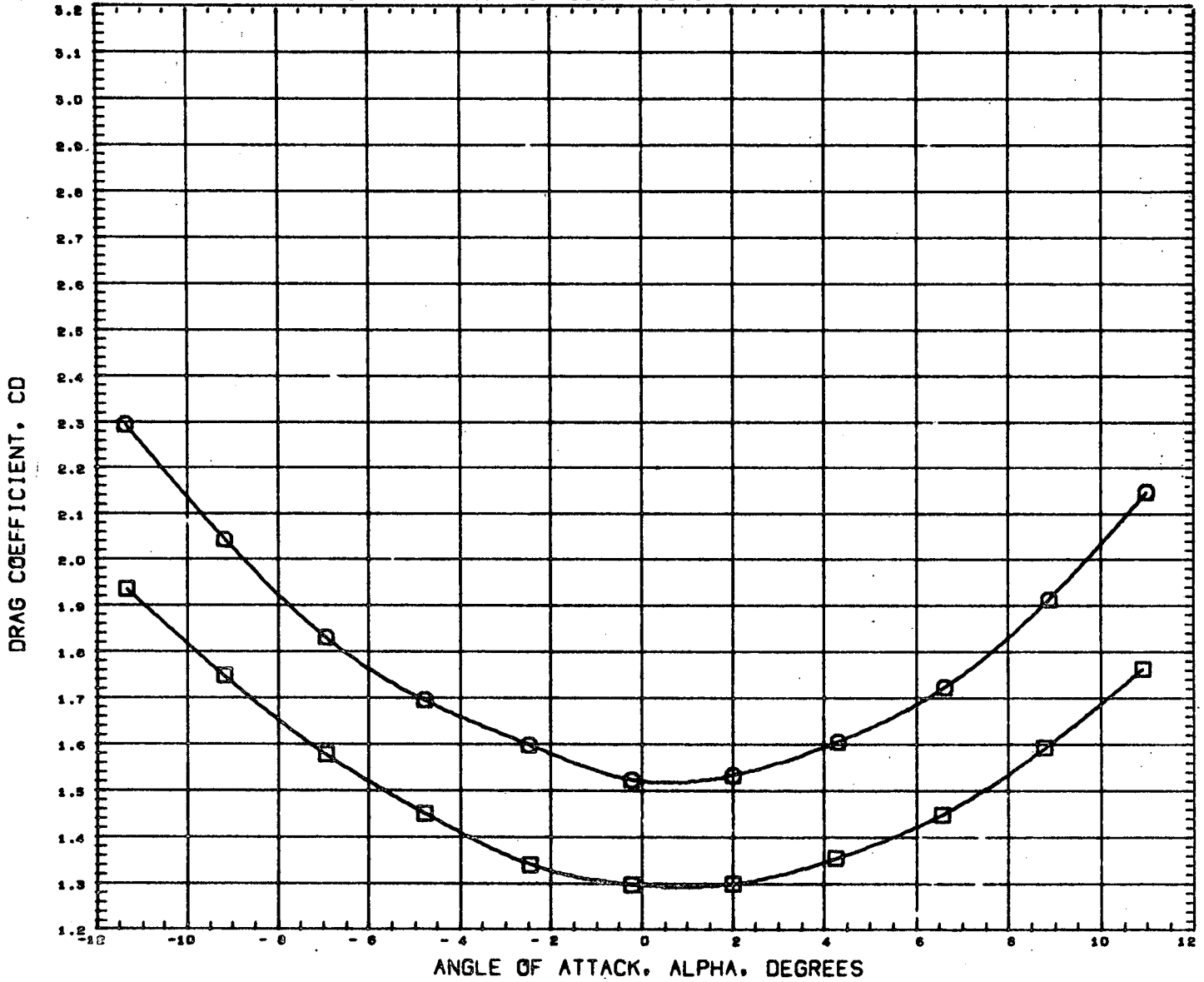
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5017D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	S:EF 0.9350 SQ. IN.
(D5018D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D5026D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5024D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			ΔMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.481

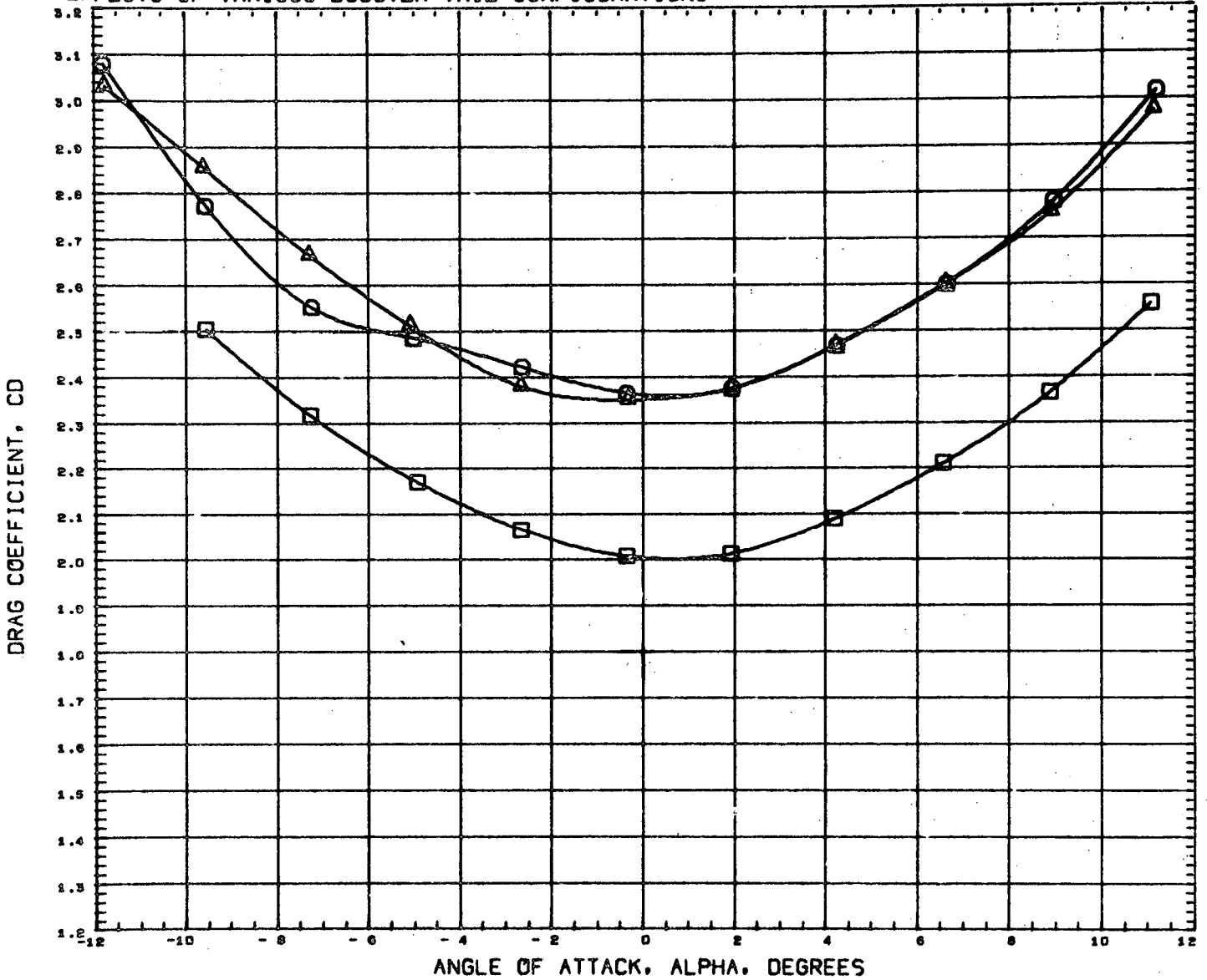
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50170)	MSFC 512 GD/C .003366 BOOSTER/CRB, B34R6T1002T3	0.000	0.000	0.000	0.000	:REF	0.9350 80. IN.
(D50180)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50280)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50240)	MSFC 512 GD/C .003366 BOOSTER/CRB, B34R6O2T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.899

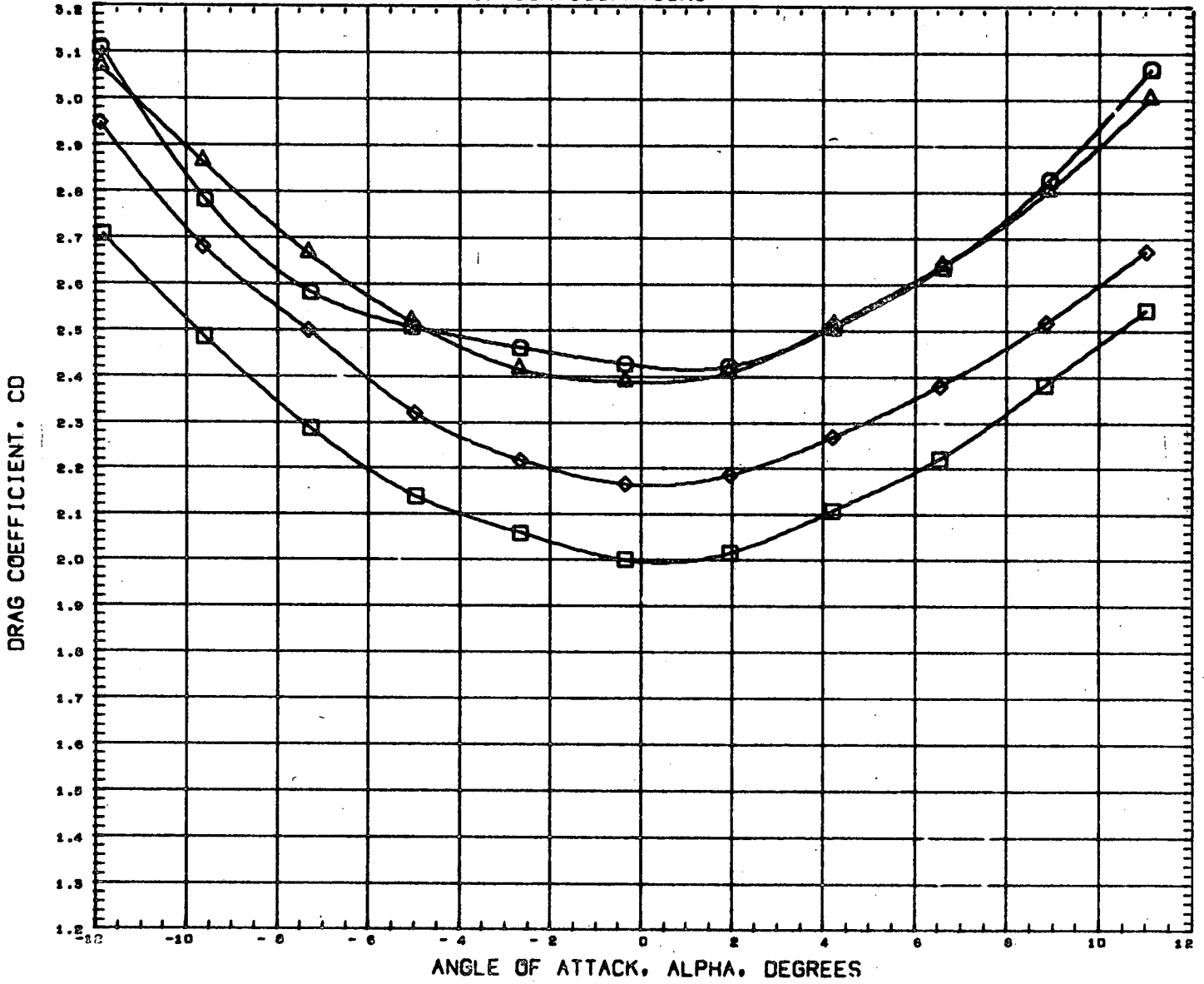
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E9017B)	M8FC 512 GD/C .005366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	δREF	0.9350 80. IN.
(D50180)	M8FC 512 GD/C .005366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50280)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50240)	M8FC 512 GD/C .005366 BOOSTER/ORB. B34R602T3	0.000	0.000			XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.101

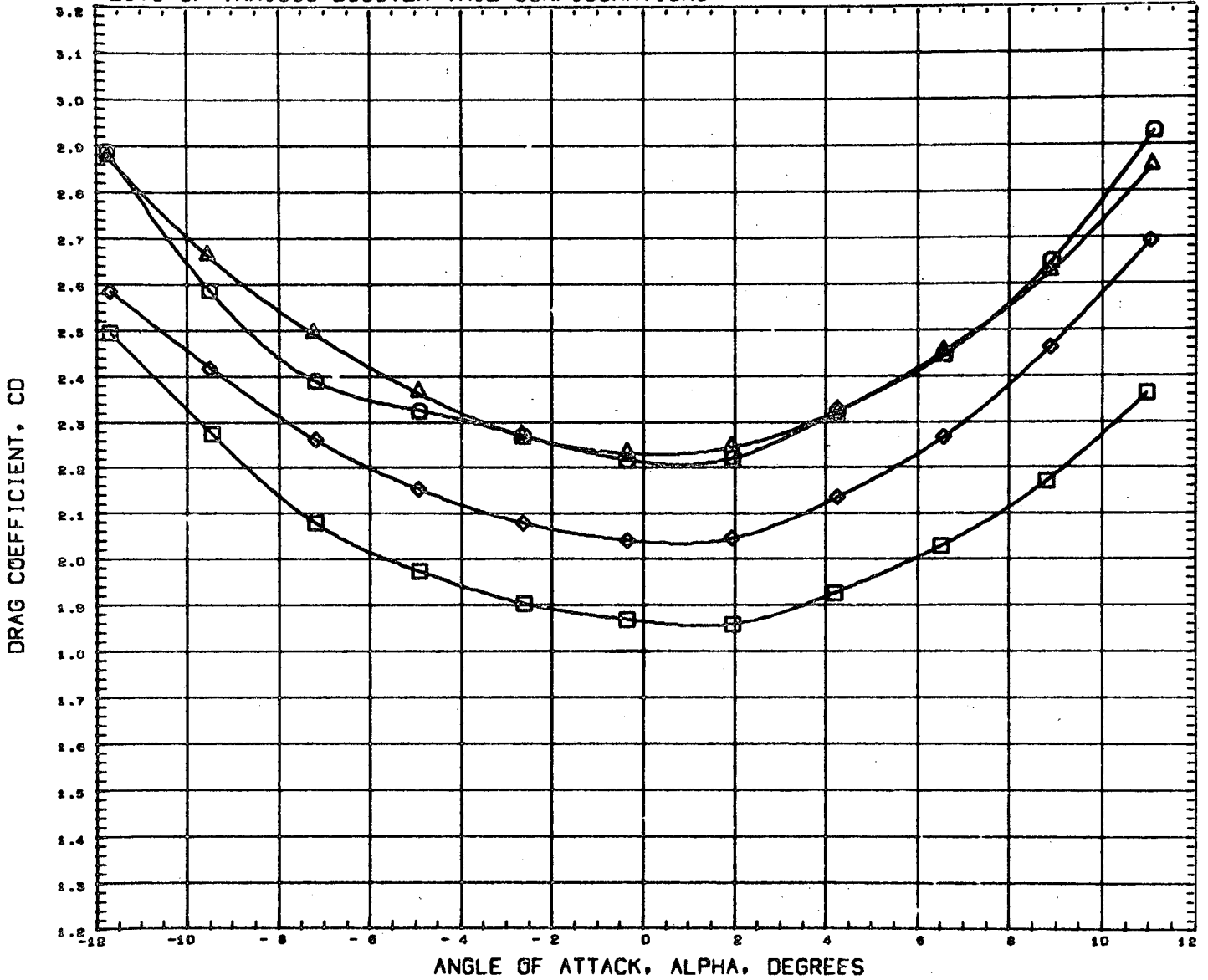
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90178)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	REF 0.9350 SQ. IN.
(D50180)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			AMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.206

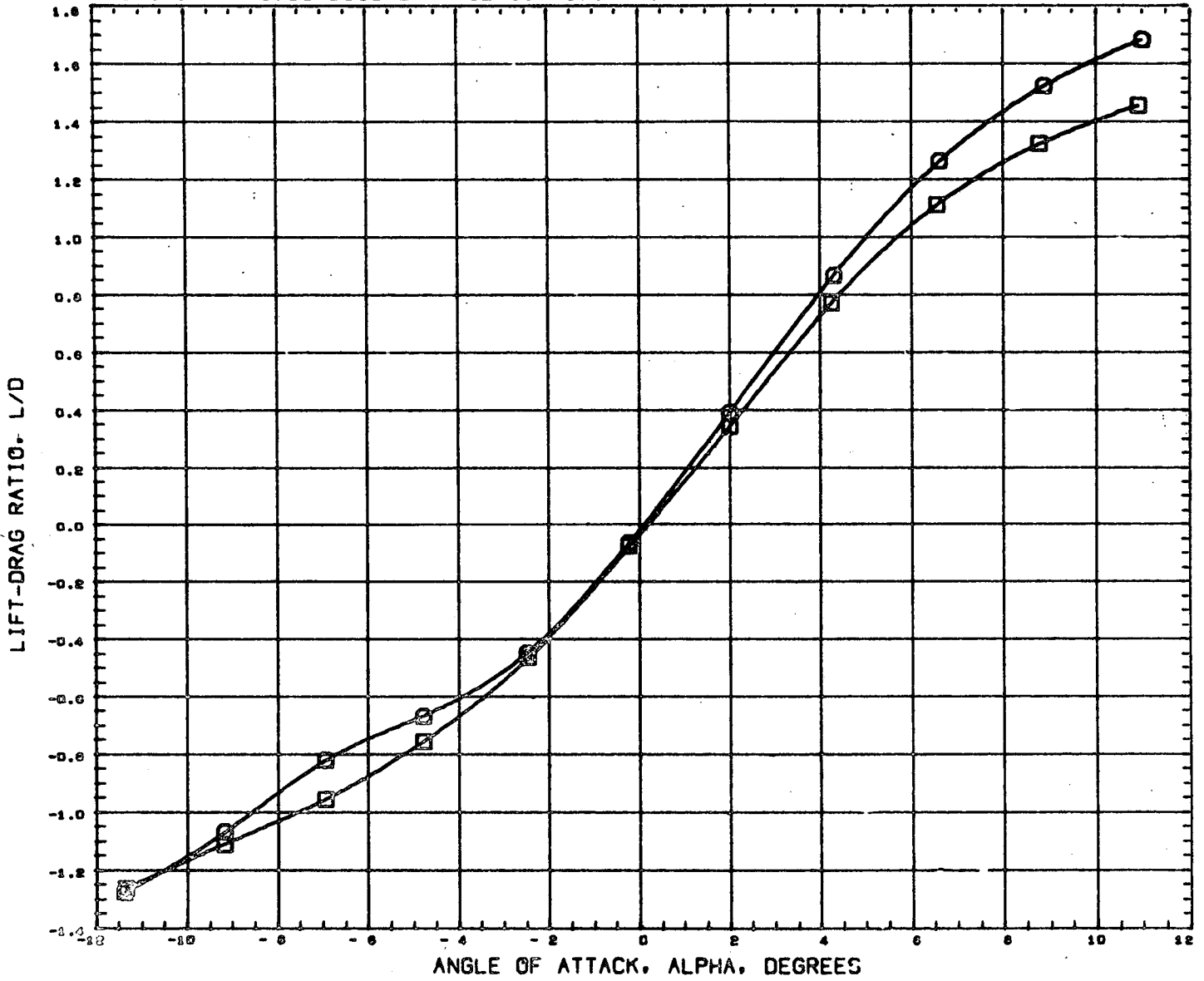
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E9017B)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	JREF	0.9350 SQ. IN.
(D90100)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D90260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D90240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.464

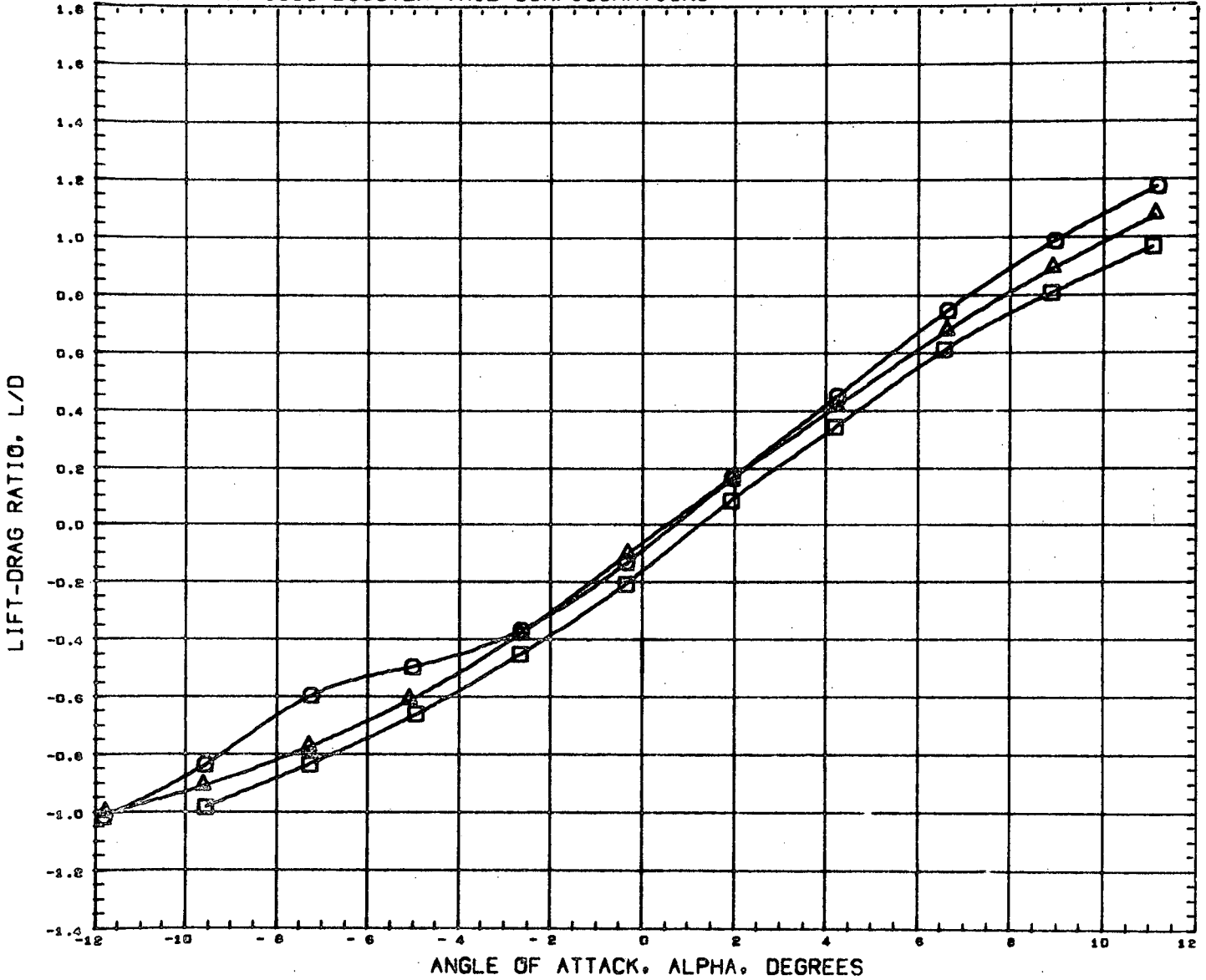
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION		
(E90178)	MSFC 512 GD/C .003506 BOOSTER/ORD. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350	50. IN.
(D90160)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	LREF	6.2310	INCHES
(D90260)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	RREF	1.0910	INCHES
(D90240)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R002T3	0.000	0.000			XMRP	3.7920	INCHES
						YMRP	0.0000	INCHES
						ZMRP	0.0000	INCHES
						SCALE	0.0034	

MACH 0.893

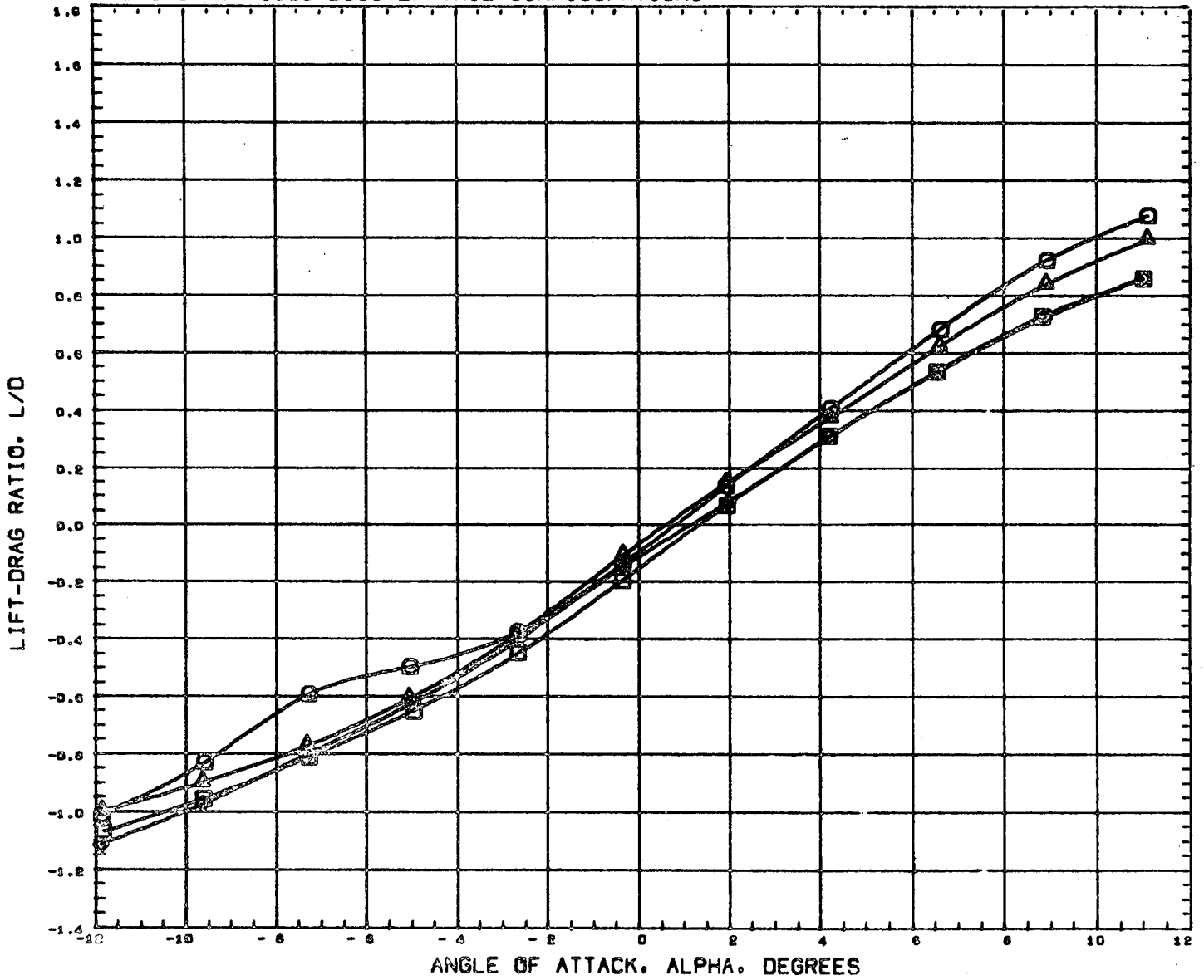
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5017B)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 80. IN.
(D50180)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50280)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50240)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R602T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.101

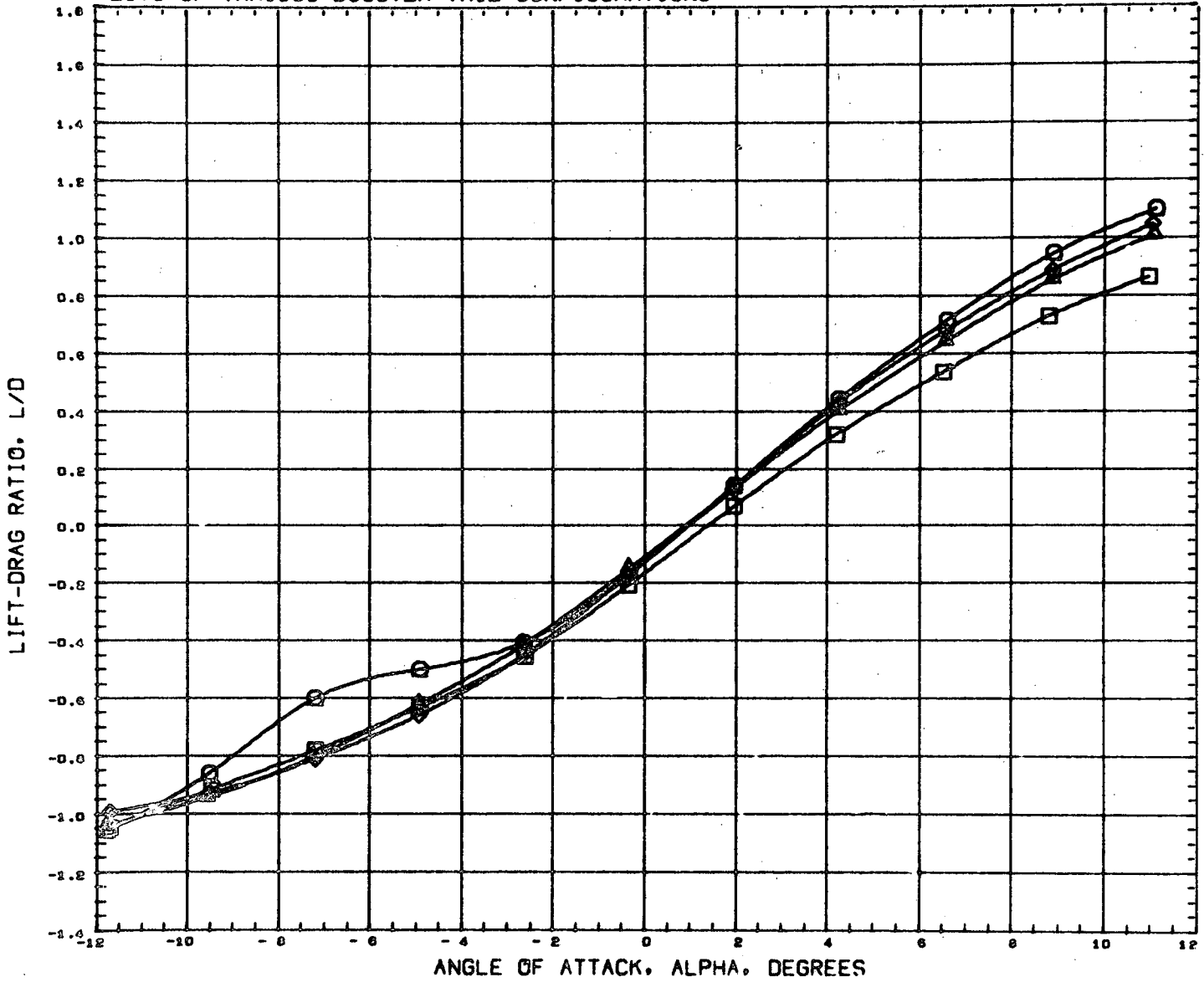
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50178)	MSFC 512 GD/C .003300 BOOSTER/CRD. 834R6Y1002T3	0.000	0.000	0.000	0.000	SkEF	0.9350 86 IN.
(D90100)	MSFC 512 GD/C .003360 BOOSTER/CRD. 834R6T1002T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D90260)	MSFC 512 GD/C .003360 BOOSTER/CRD. 834R6T1202T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D90240)	MSFC 512 GD/C .003360 BOOSTER/CRD. 834R602T3	0.000	0.000	0.000	0.000	XNRP	3.7920 INCHES
						YNRP	0.0000 INCHES
						ZNRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.203

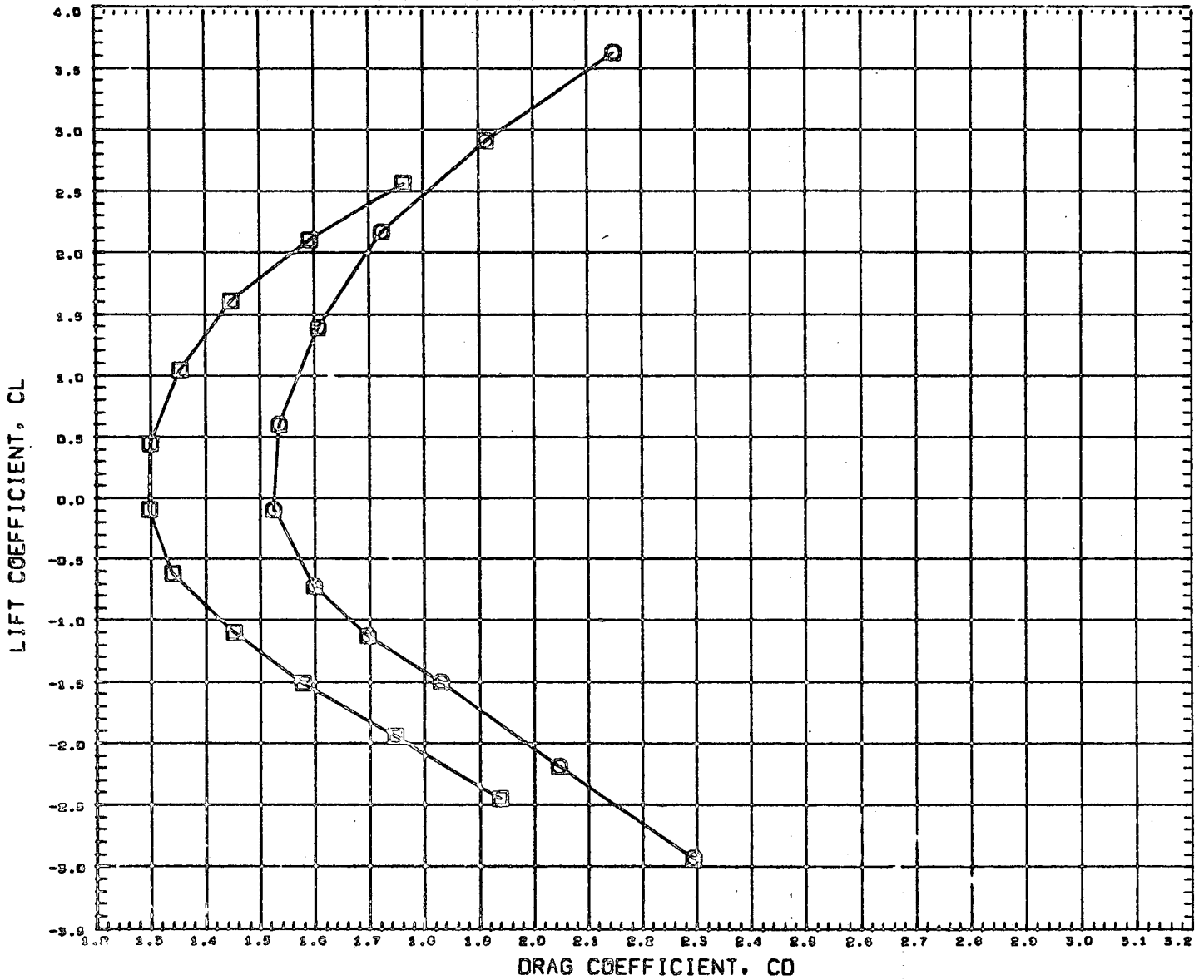
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90170)	◇	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	S.EF 0.9350 SQ. IN.
(D50100)	○	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50200)	△	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T12O2T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50200)	□	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6O2T3	0.000	0.000			XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.464

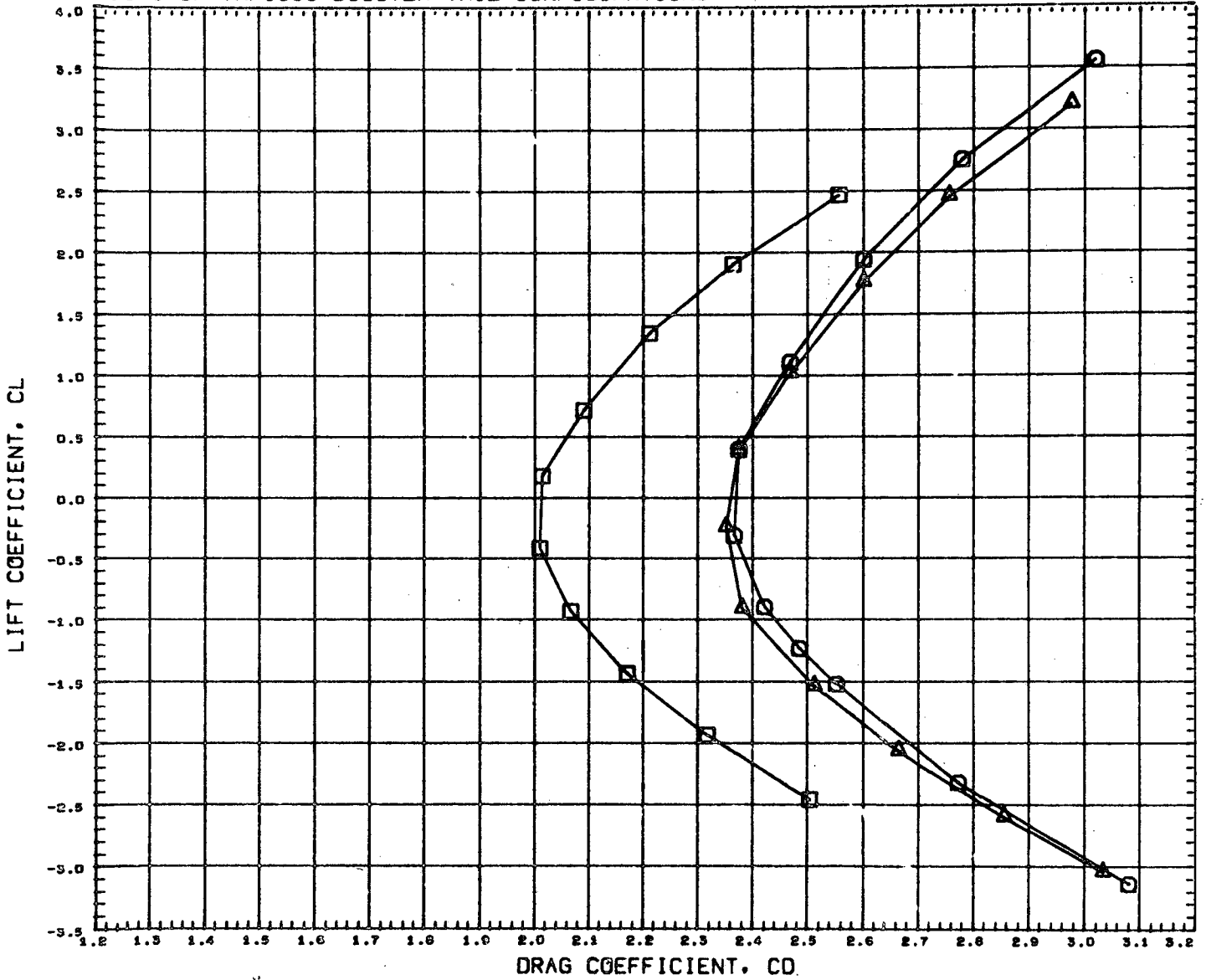
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5017B)	M8FC 512 GD/C .003960 BOOSTER/ORB. B34RGT1D02T9	0.000	0.000	0.000	0.000	BREF 0.9350 INCHES
(D50100)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50260)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.600	BREF 1.0910 INCHES
(D50240)	M8FC 512 GD/C .003960 BOOSTER/ORB. B34R602T9	0.000	0.000			XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.890

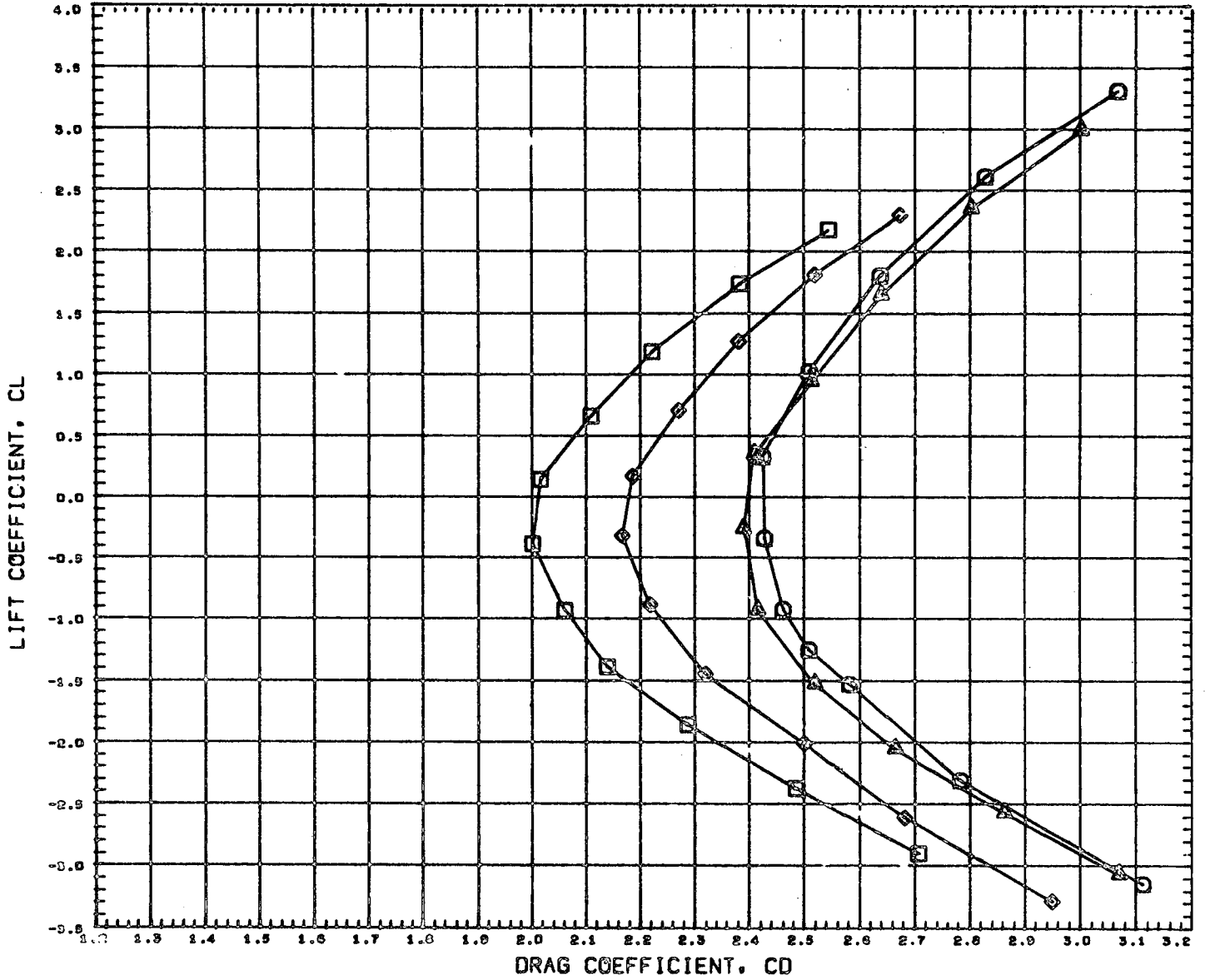
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5017D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	WREF	0.9350 84. IN.
(D5018D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D5026D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D5024D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000	0.000	0.000	XMR ²	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.111

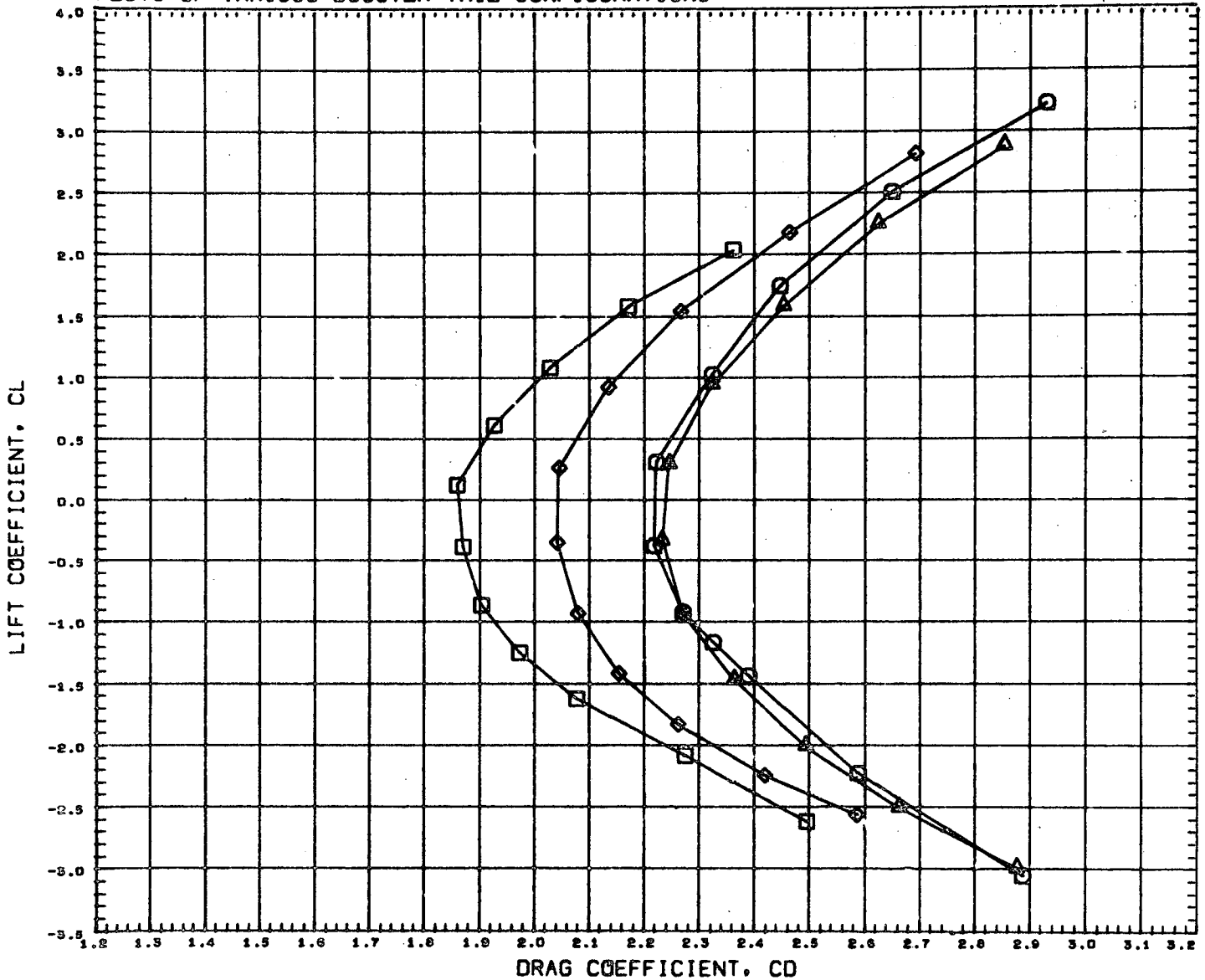
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(D5017B)	MSFC 512 GD/C .003966 BOOSTER/ORD. B34R6T1002T3	0.000	0.000	0.000	0.000	6REF 0.9350 SQ. IN.
(D5018D)	MSFC 512 GD/C .003966 BOOSTER/ORD. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D5026D)	MSFC 512 GD/C .003966 BOOSTER/ORD. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5024D)	MSFC 512 GD/C .003966 BOOSTER/ORD. B34R602T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.206

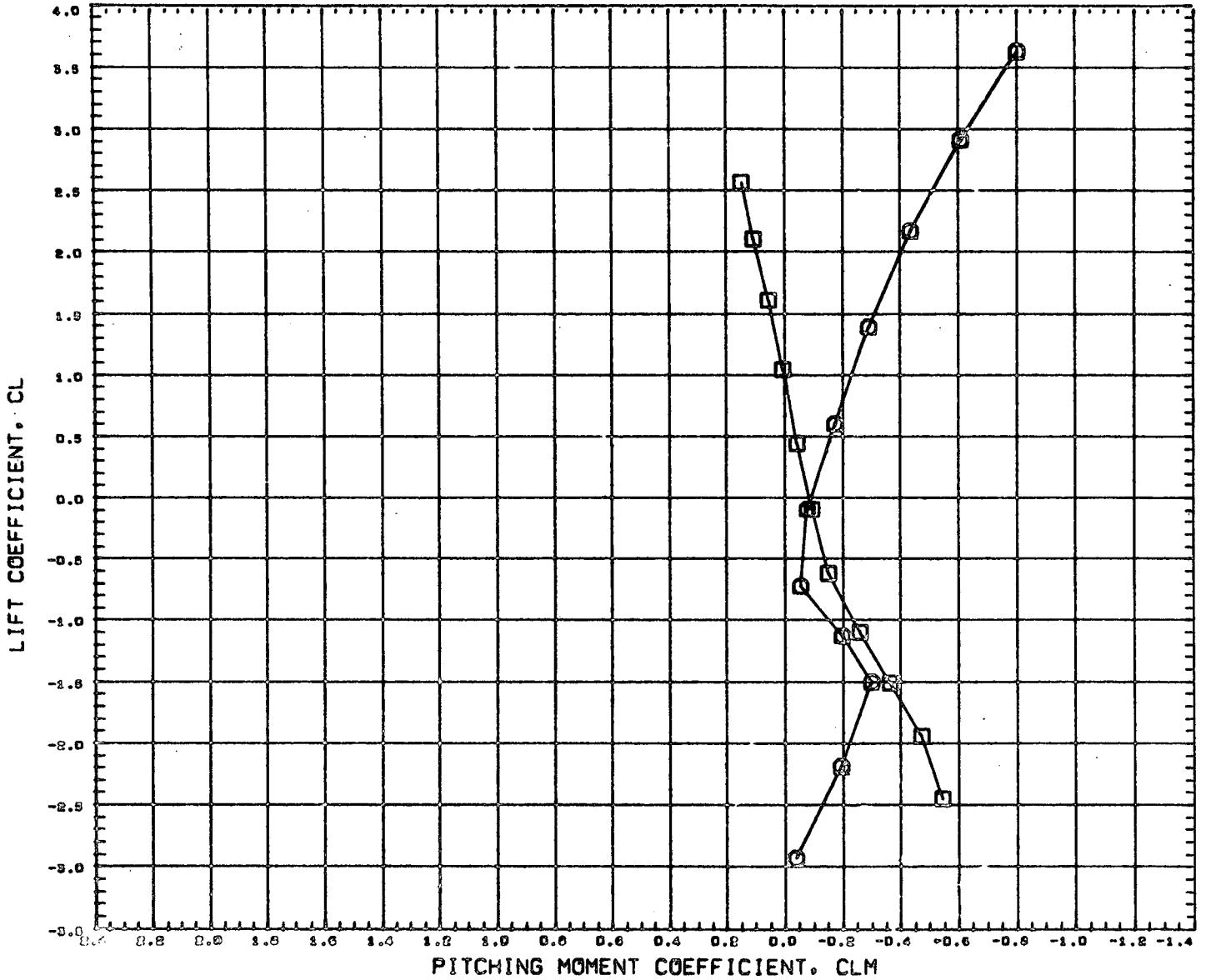
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMCD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90170)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	*REF 0.9350 50.1N.
(D90180)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D90260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF 1.0010 INCHES
(D90240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			XMRP 3.7920 INCHES
						YMR 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.464

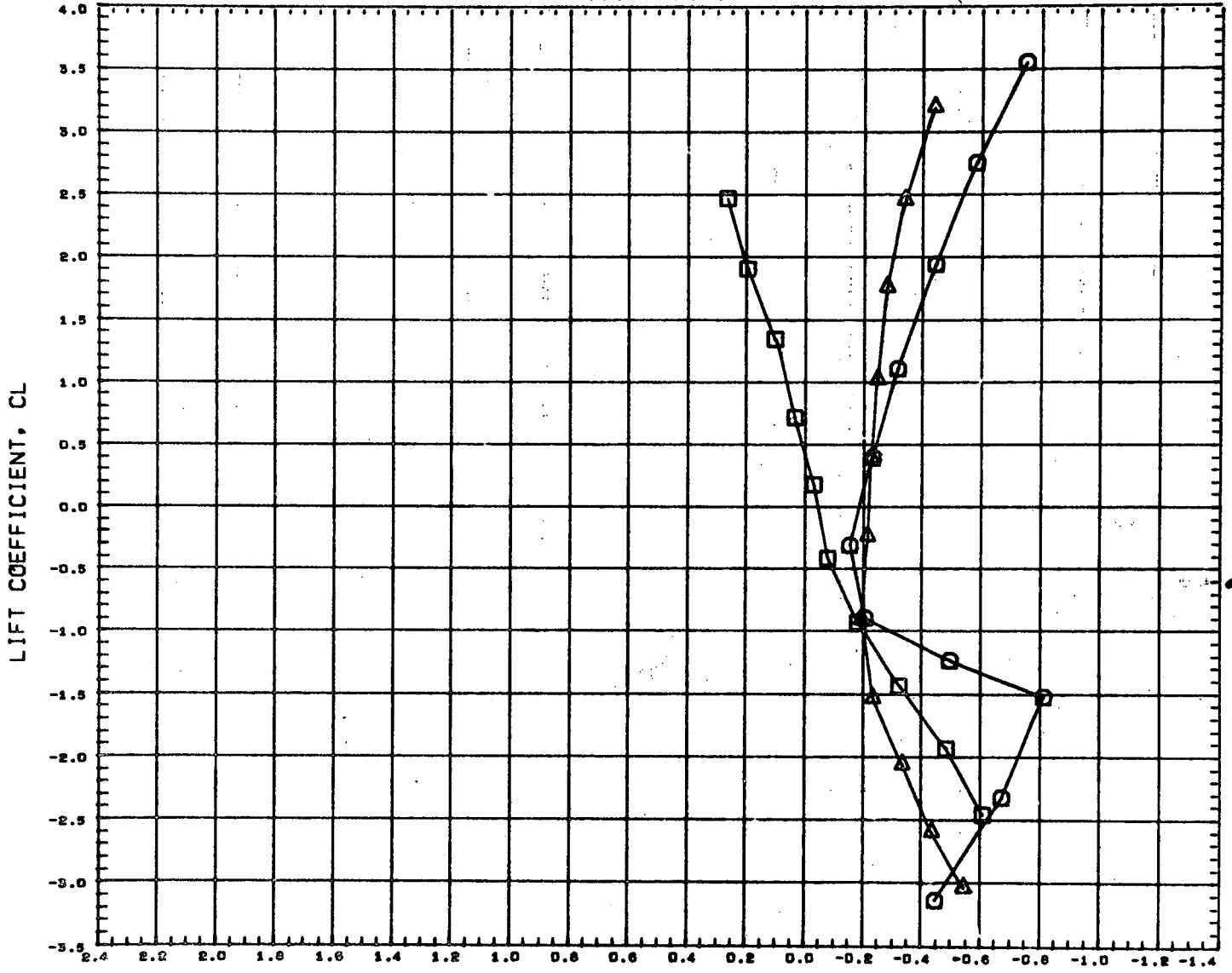
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E9017B)	MSFC 512 GD/C .003306 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(D50100)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50260)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50240)	MSFC 512 GD/C .003306 BOOSTER/ORB. B34R602T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.080

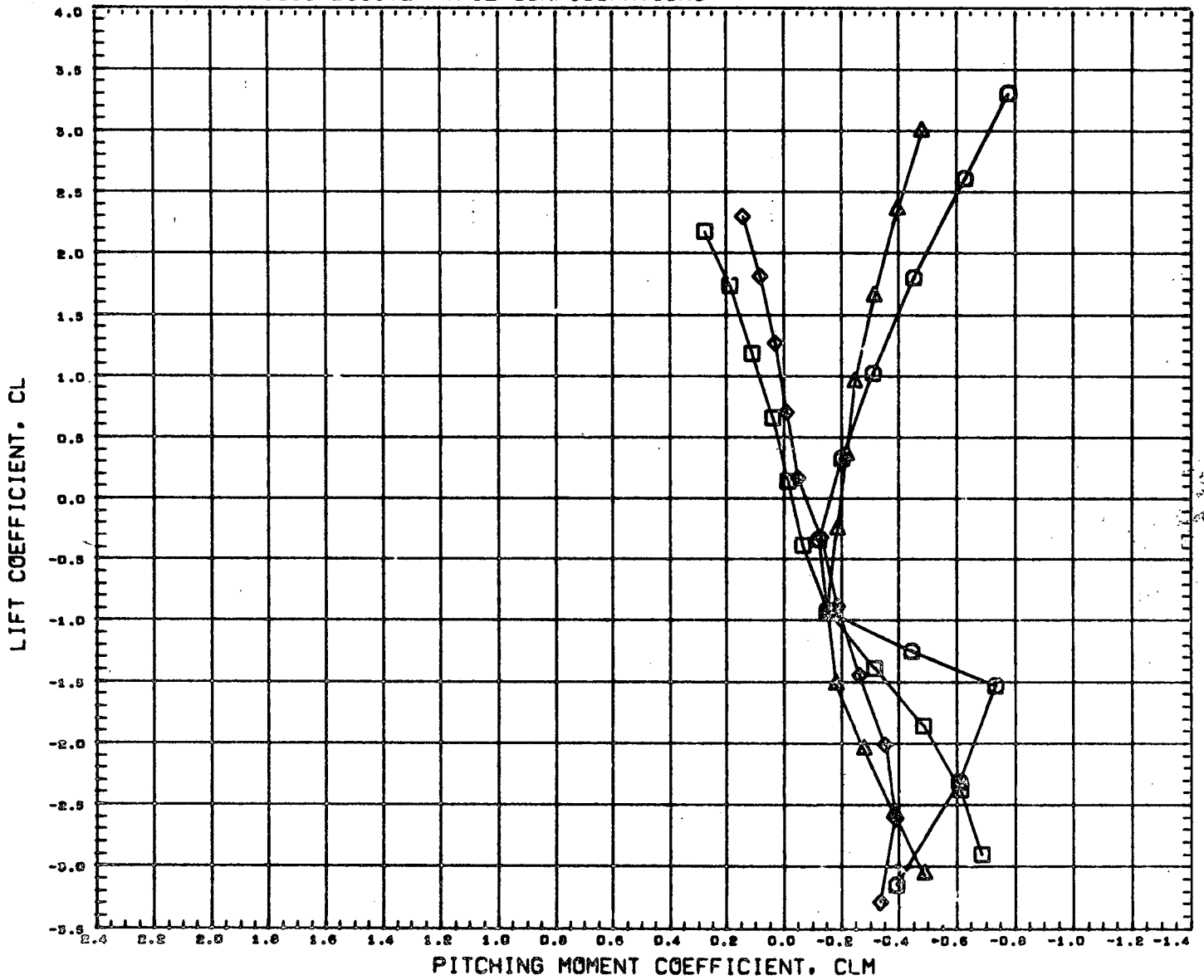
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50170)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SKEF	0.9350 80. IN.
(D50180)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50200)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	RREF	1.0910 INCHES
(D50240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.101

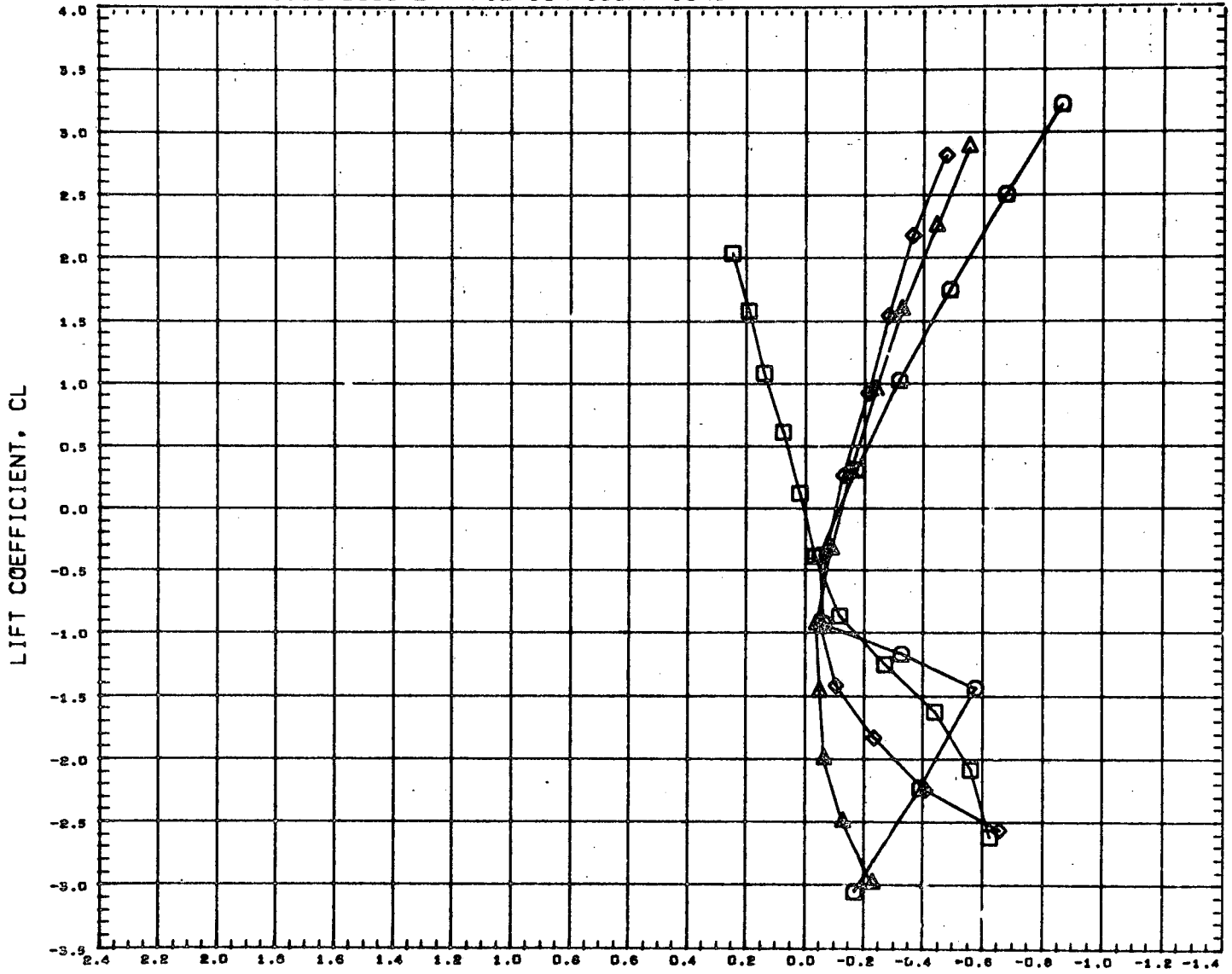
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION
(D50170)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	REF 0.9850 SQ. IN.
(D50100)	MSFC 512 GD/C .003306 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50280)	MSFC 512 GD/C .003306 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.206

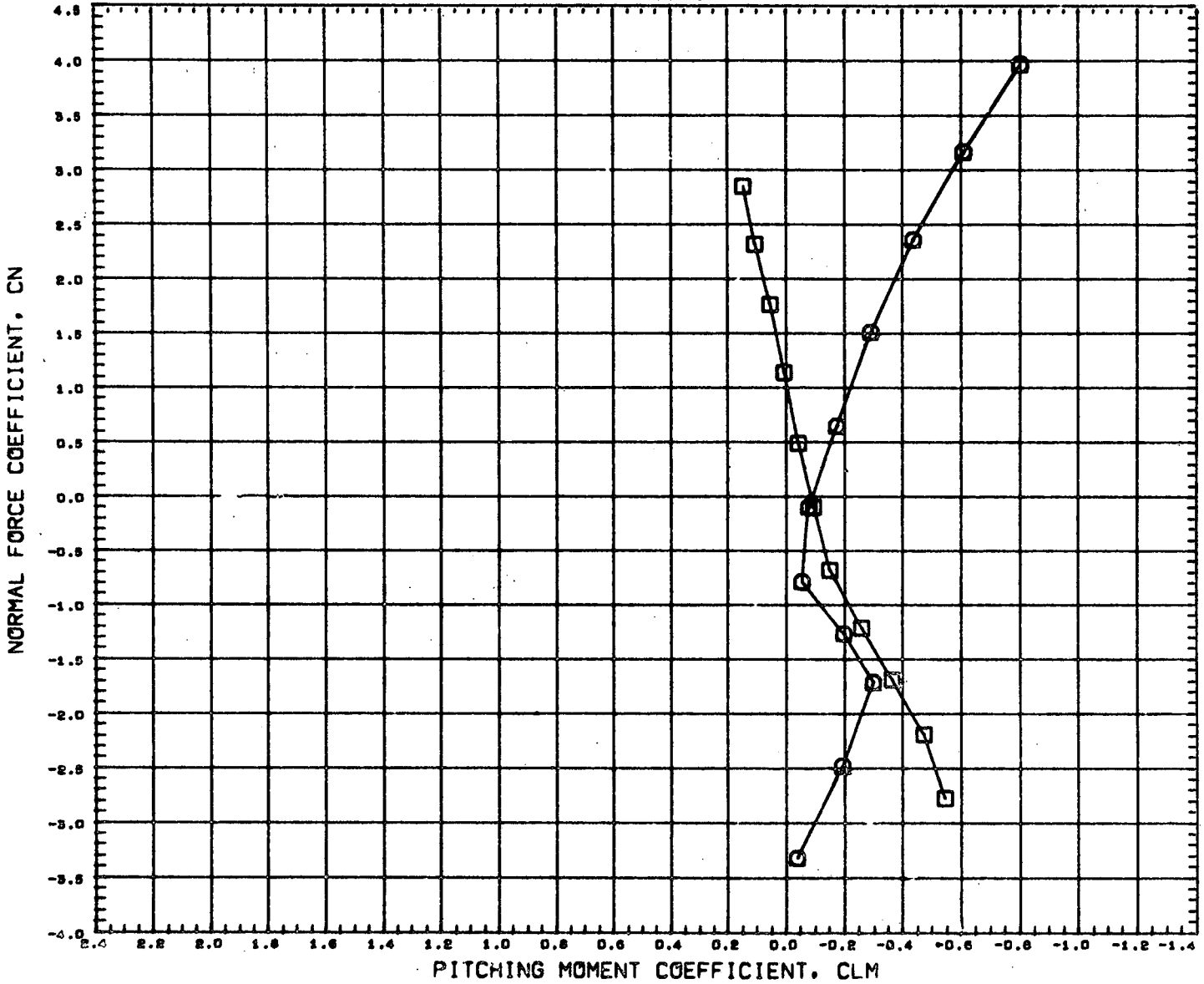
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PMTMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5017B)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	LREF 0.9350 SQ. IN.
(D5010D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D5026D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1E02T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5024D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.464

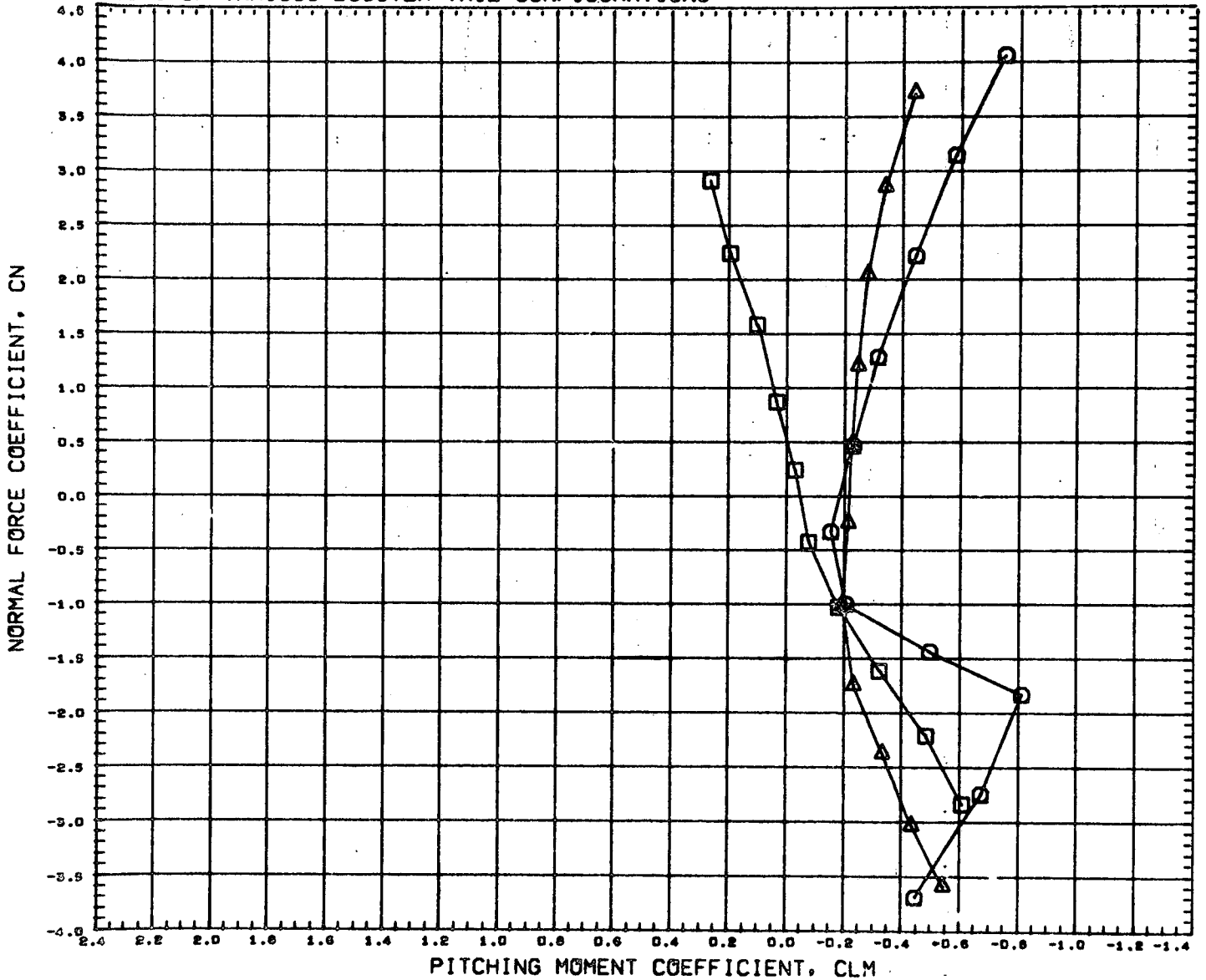
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E80178)	M8FC 512 GD/C .003588 BOOSTER/ORB, B34R6T1002T3	0.000	0.000	0.000	0.000	8"EF	0.9350 SQ. IN.
(D50180)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(D50280)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(D50240)	M8FC 512 GD/C .003366 BOOSTER/ORB, B34R602T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.899

EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS

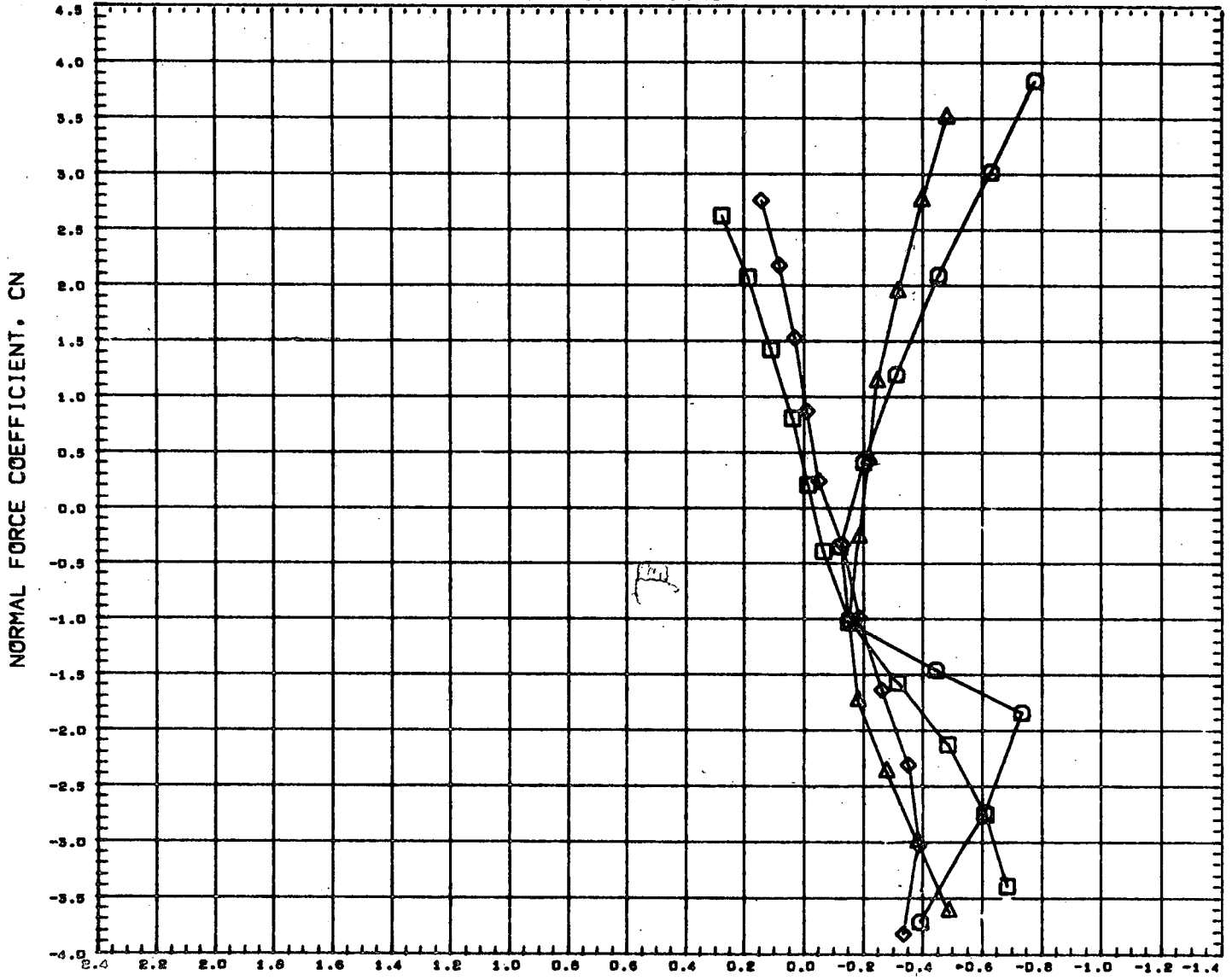


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50178)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50180)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50260)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50240)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R602T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0054

MACH 1.101

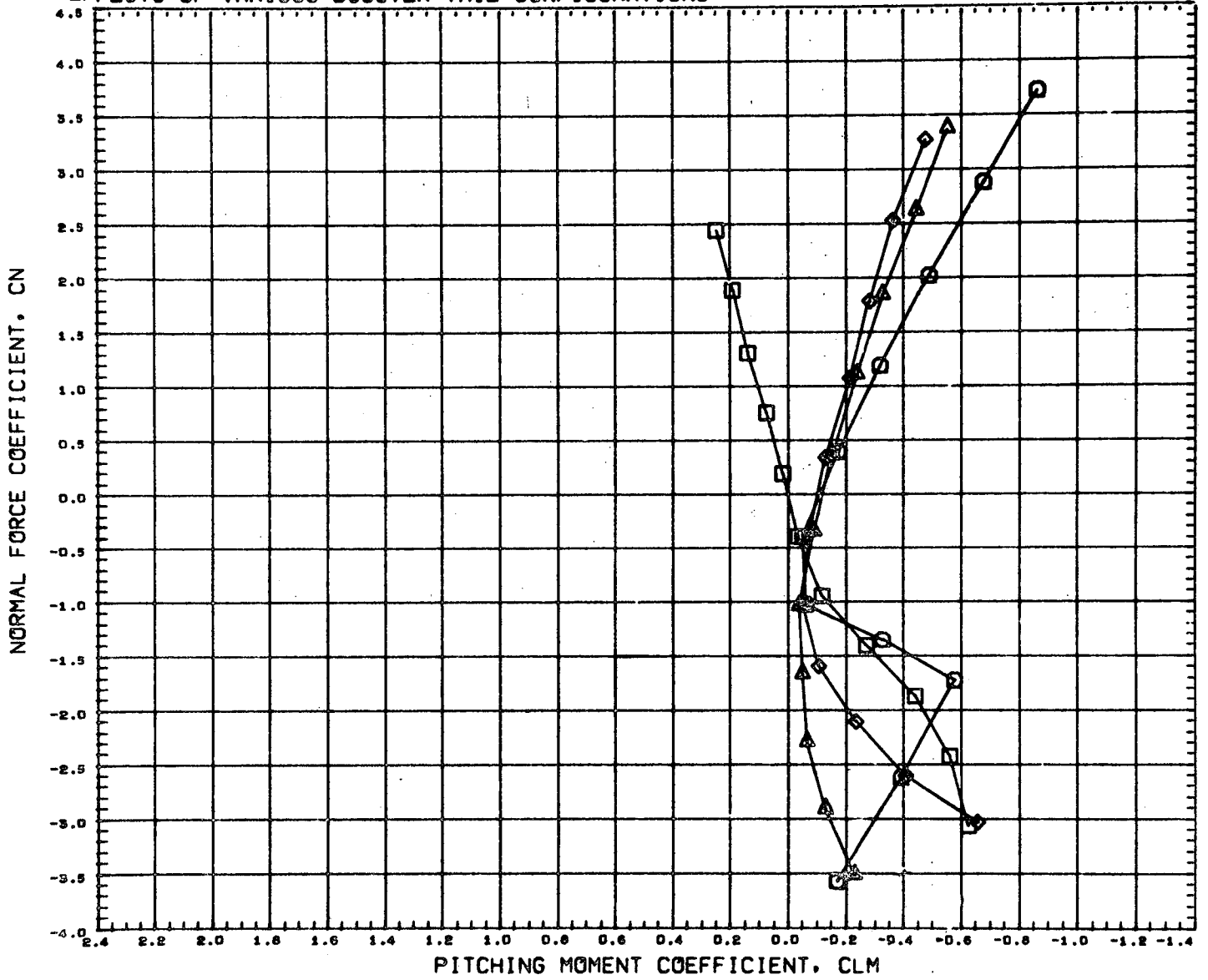
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOO	LFLAP	RFLAP	REFERENCE INFORMATION
(E5017B)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(D50180)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50240)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000	0.000	0.000	KMRP 3.7920 INCHES
						YNRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.206

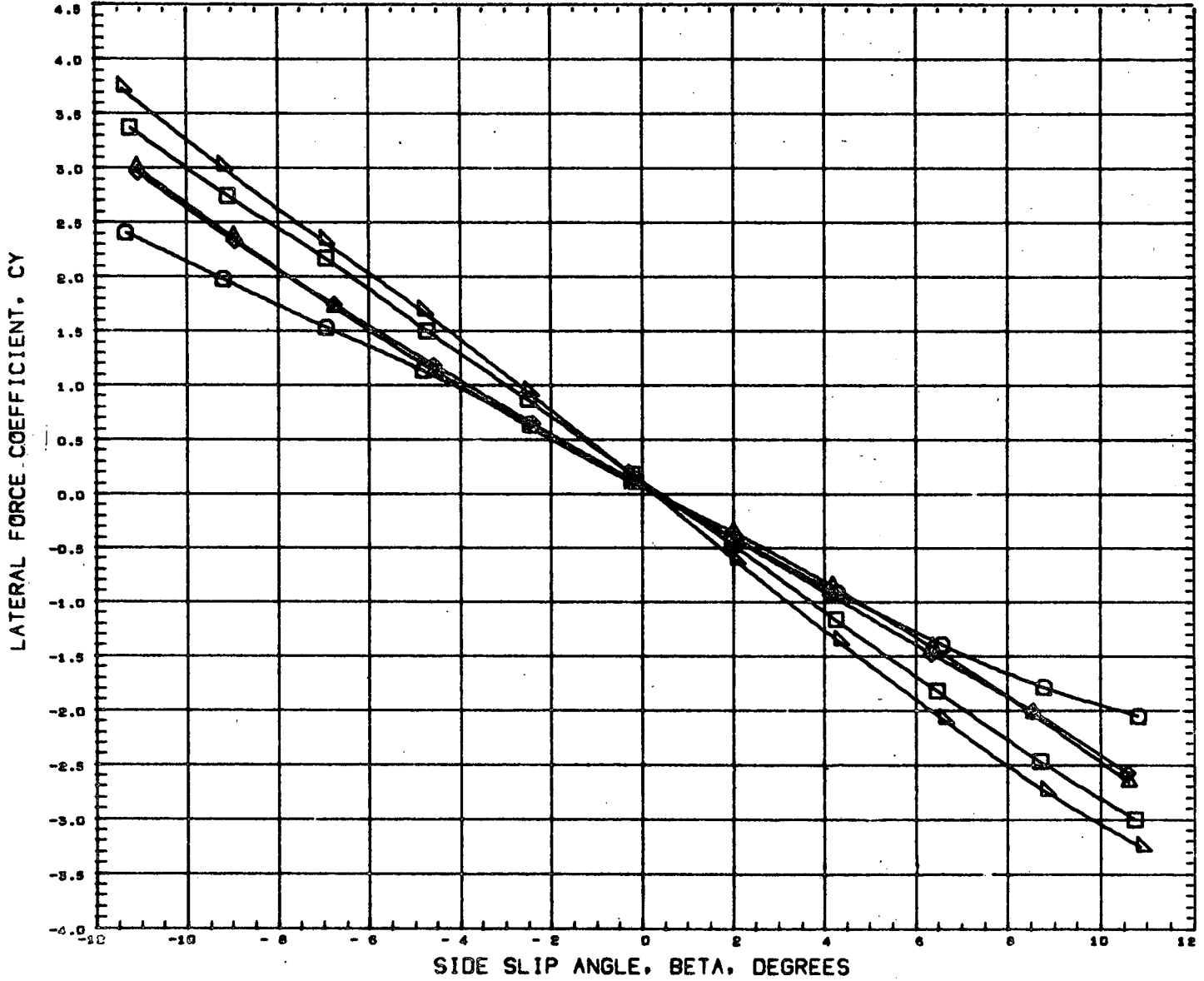
EFFECTS OF VARIOUS BOOSTER TAIL CONFIGURATIONS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90179)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	*REF 0.9350 80. IN.
(D50160)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(D50260)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50240)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R602T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.464

COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER

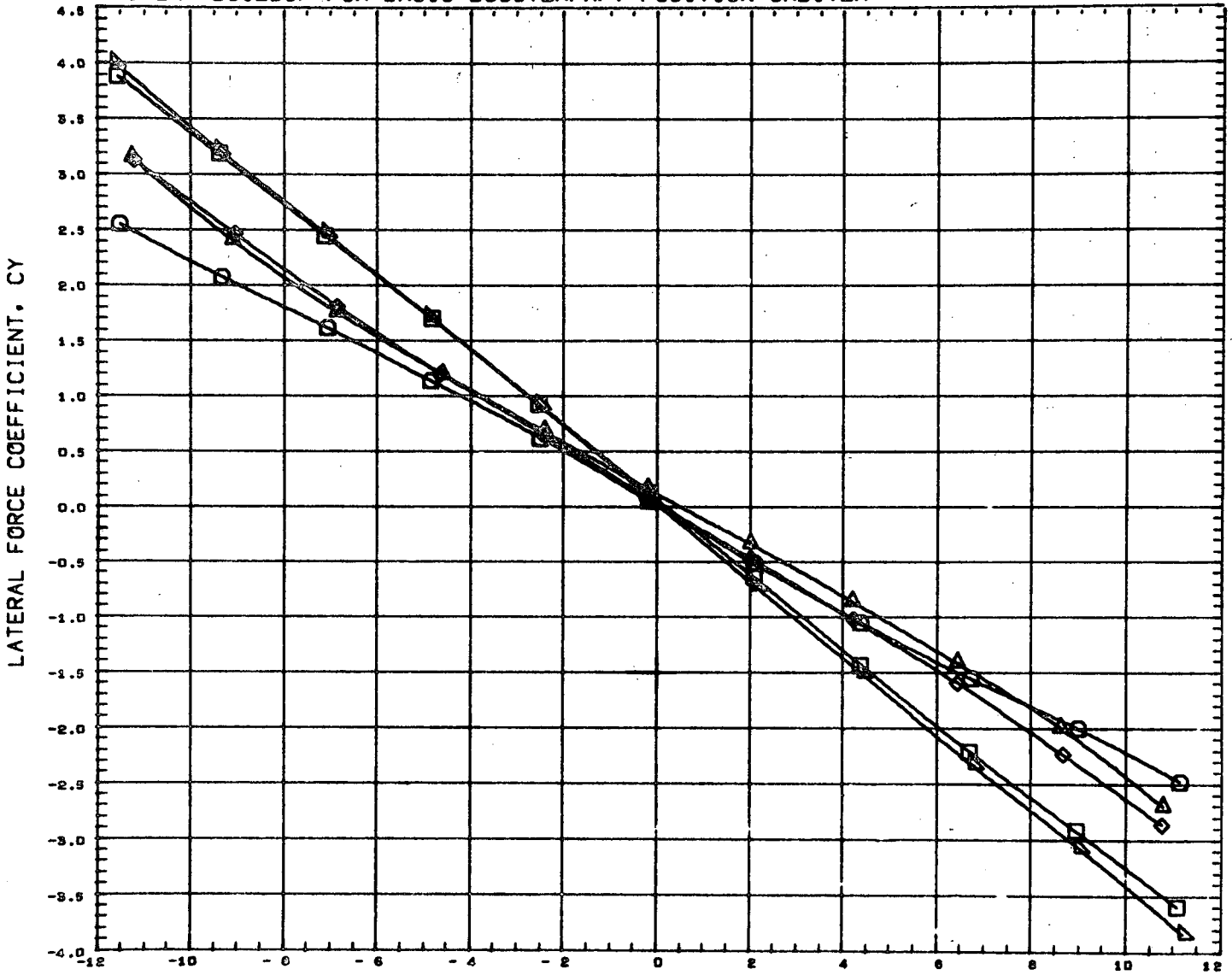


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MS0250)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			SREF 0.9350 SQ. IN.
(MS0300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004 T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003 T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001 T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(AS019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002 T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.001

X

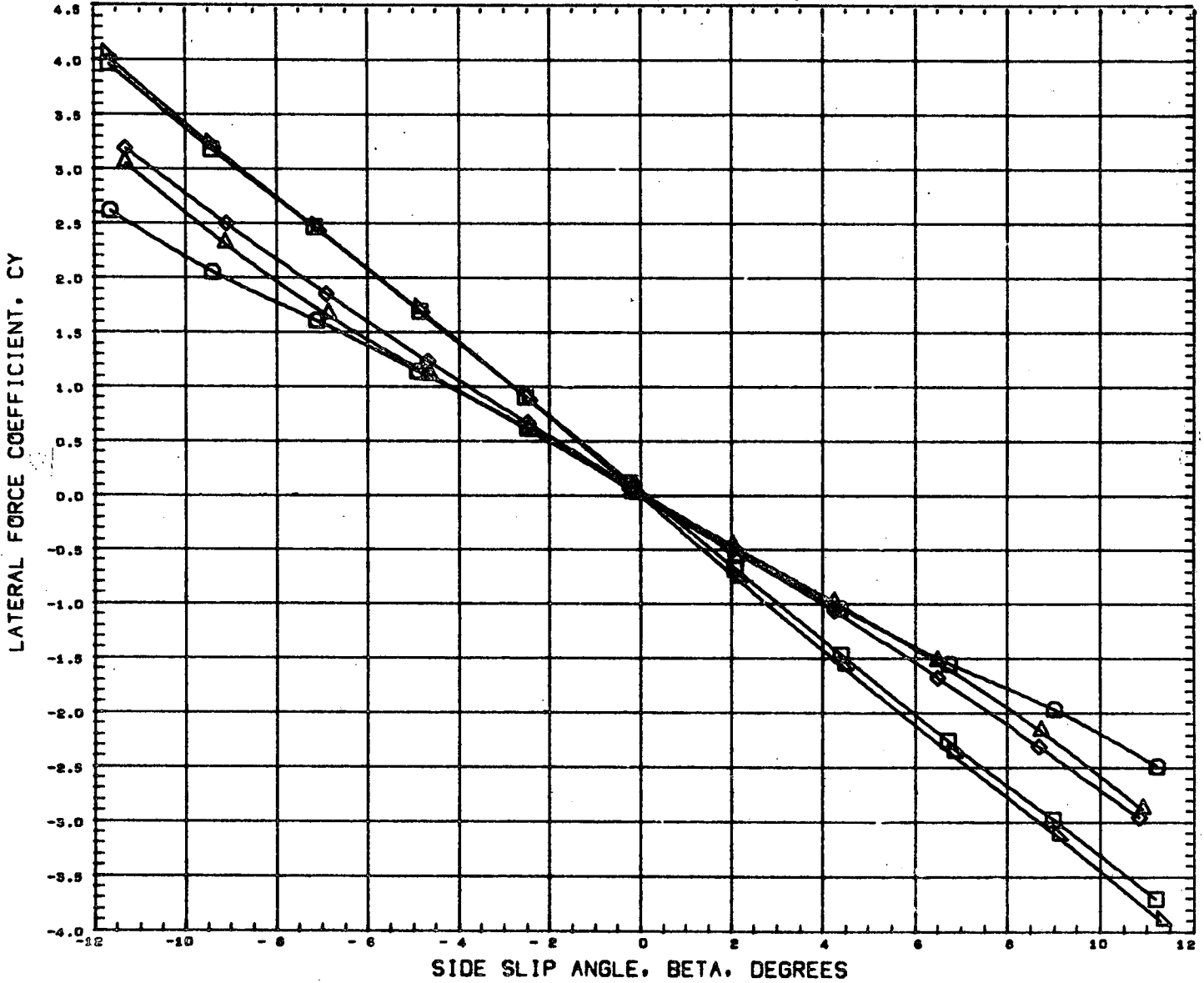
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(H50250)	MSFC 512 GD/C .003366 BOOSTER/ORB. 834R602T3	0.000	0.000			SREF	0.9350 80. IN.
(H50300)	MSFC 512 GD/C .003366 BOOSTER/ORB. 834R6T1004T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(H50260)	MSFC 512 GD/C .003366 BOOSTER/ORB. 834R6T1003T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(H50200)	MSFC 512 GD/C .003366 BOOSTER/ORB. 834R6T1001T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(A5019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. 834R6T1002T3	0.000	0.000	0.000	0.000	ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.112

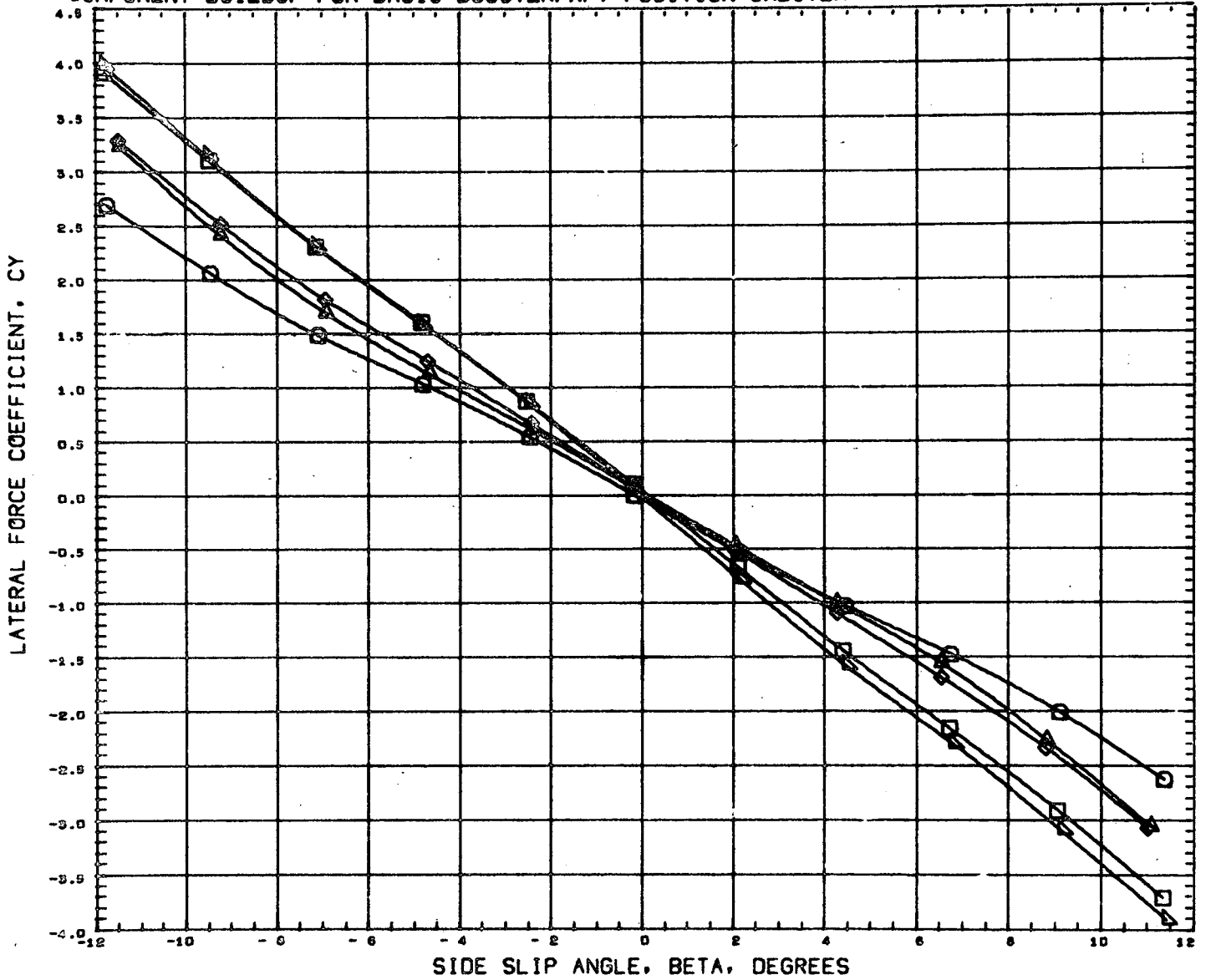
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MS0290)	MSFC 312 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			SREF 0.9350 SQ. IN.
(MS0300)	MSFC 312 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(MS0280)	MSFC 312 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(MS0200)	MSFC 312 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XHRP 3.7920 INCHES
(AS019A)	MSFC 312 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.804

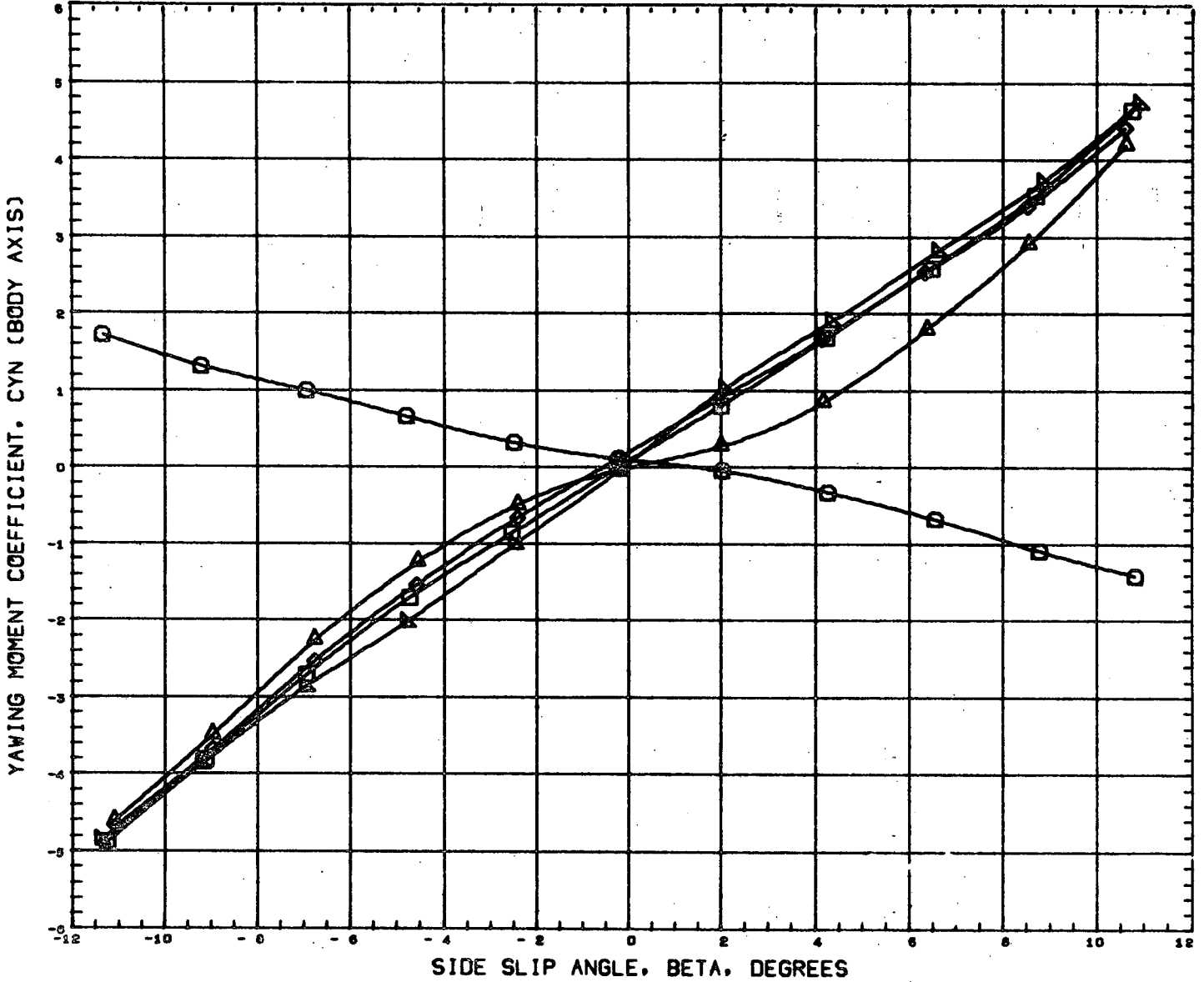
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H50250)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			SREF 0.9350 50. IN.
(H50300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(H50260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(H50200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(A5019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.462

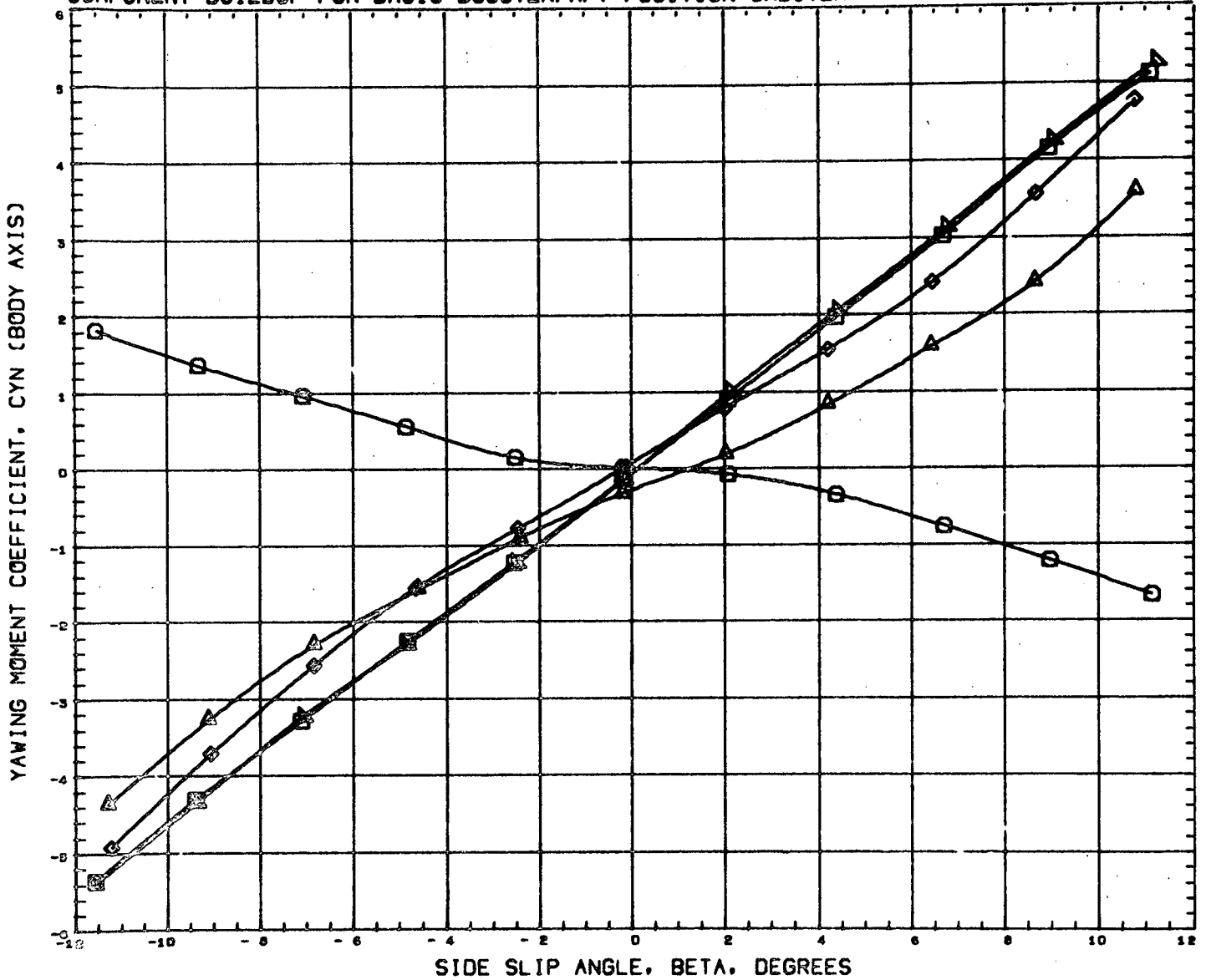
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MS0250)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			SREF 0.9350 SQ. IN.
(MS0300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(AS019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.902

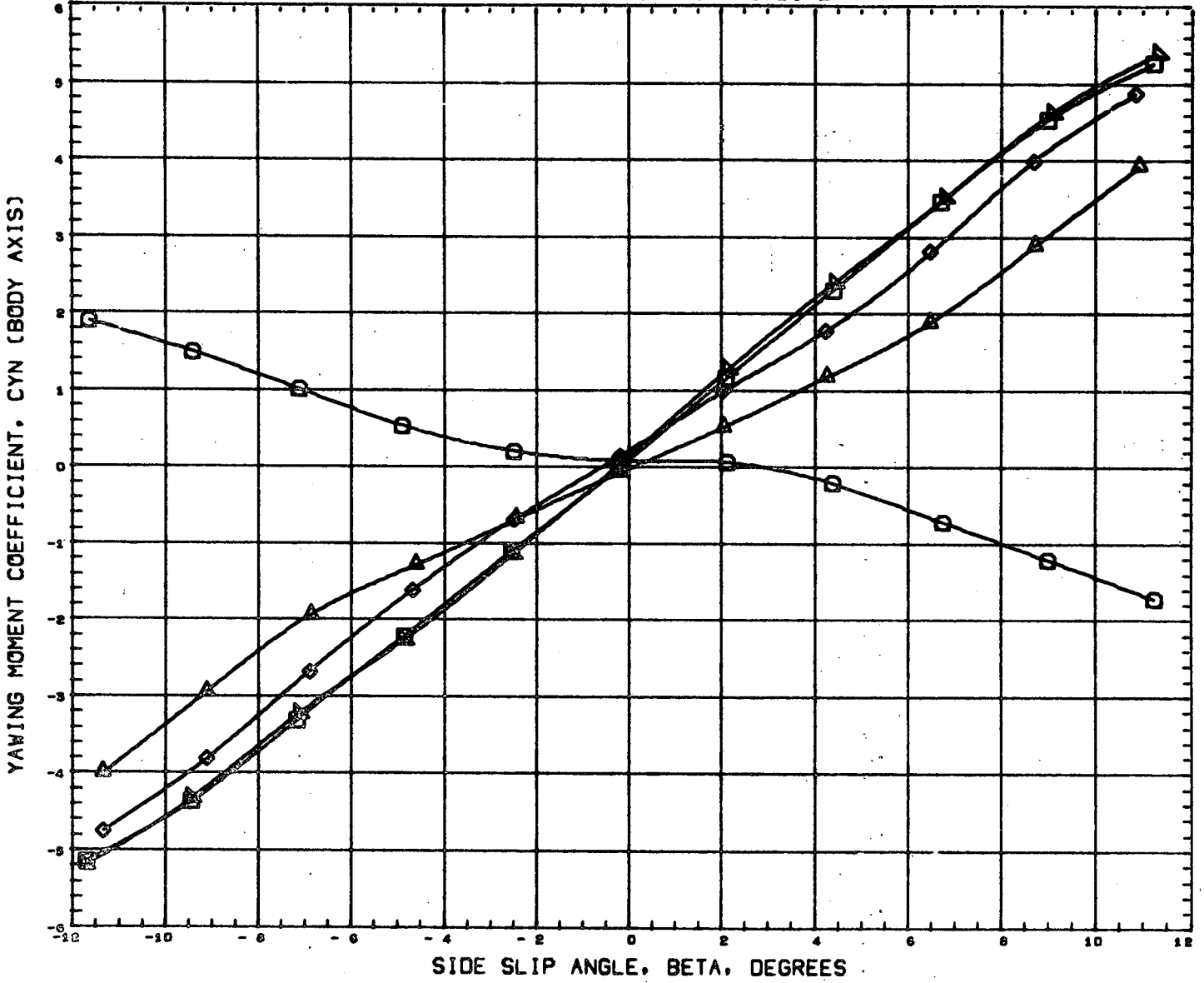
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H50250)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			SREF 0.9350 SQ. IN.
(H50300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(H50260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(H50200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRF 3.7920 INCHES
(A5010A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 1.102

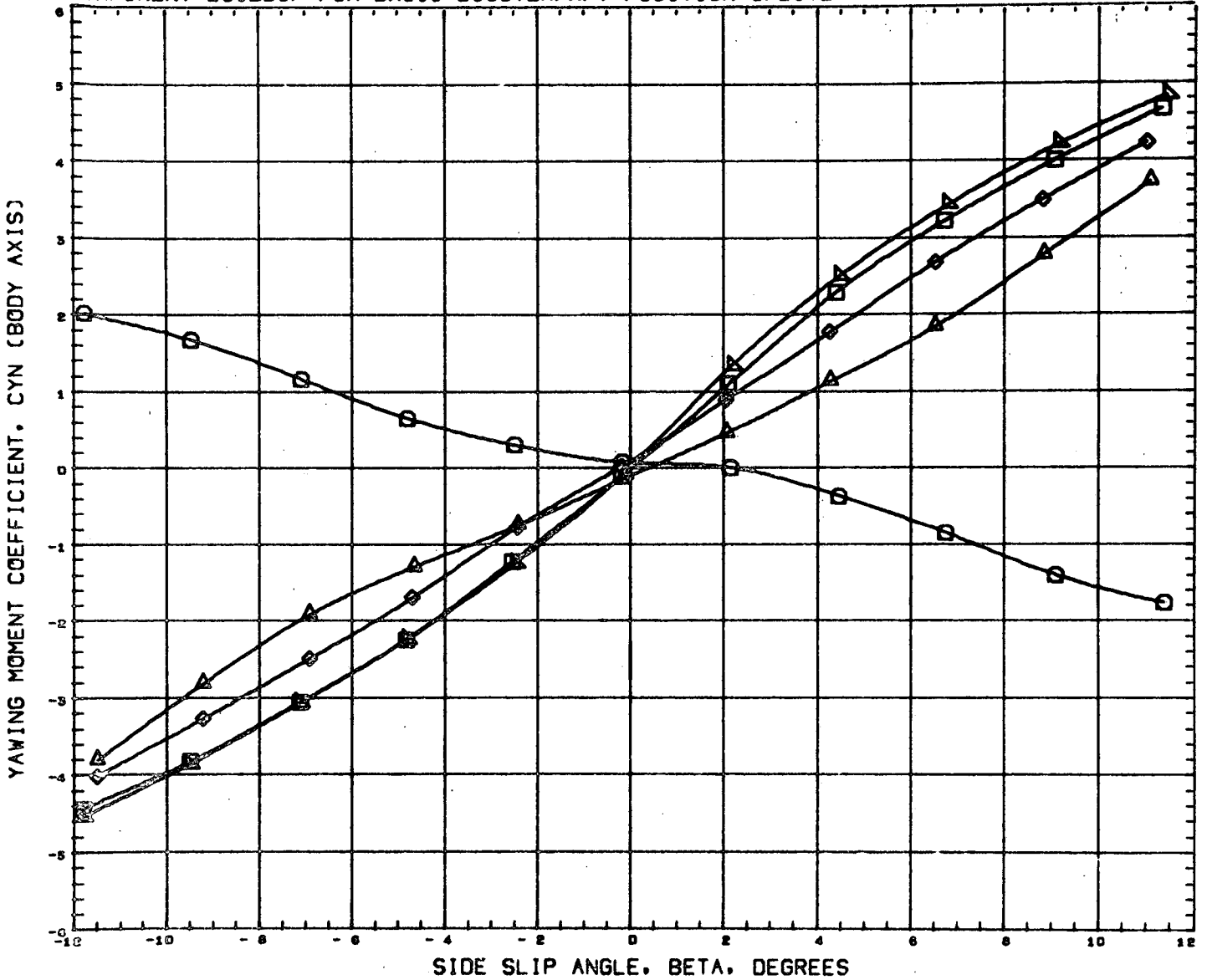
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H5025D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			JREF 0.9350 SQ. IN.
(H5030D)	MSFC 512 GD/C .003363 BOOSTER/ORB. B34R6T1D04T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(H5028D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D03T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(H5020D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D01T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(ASD19A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.204

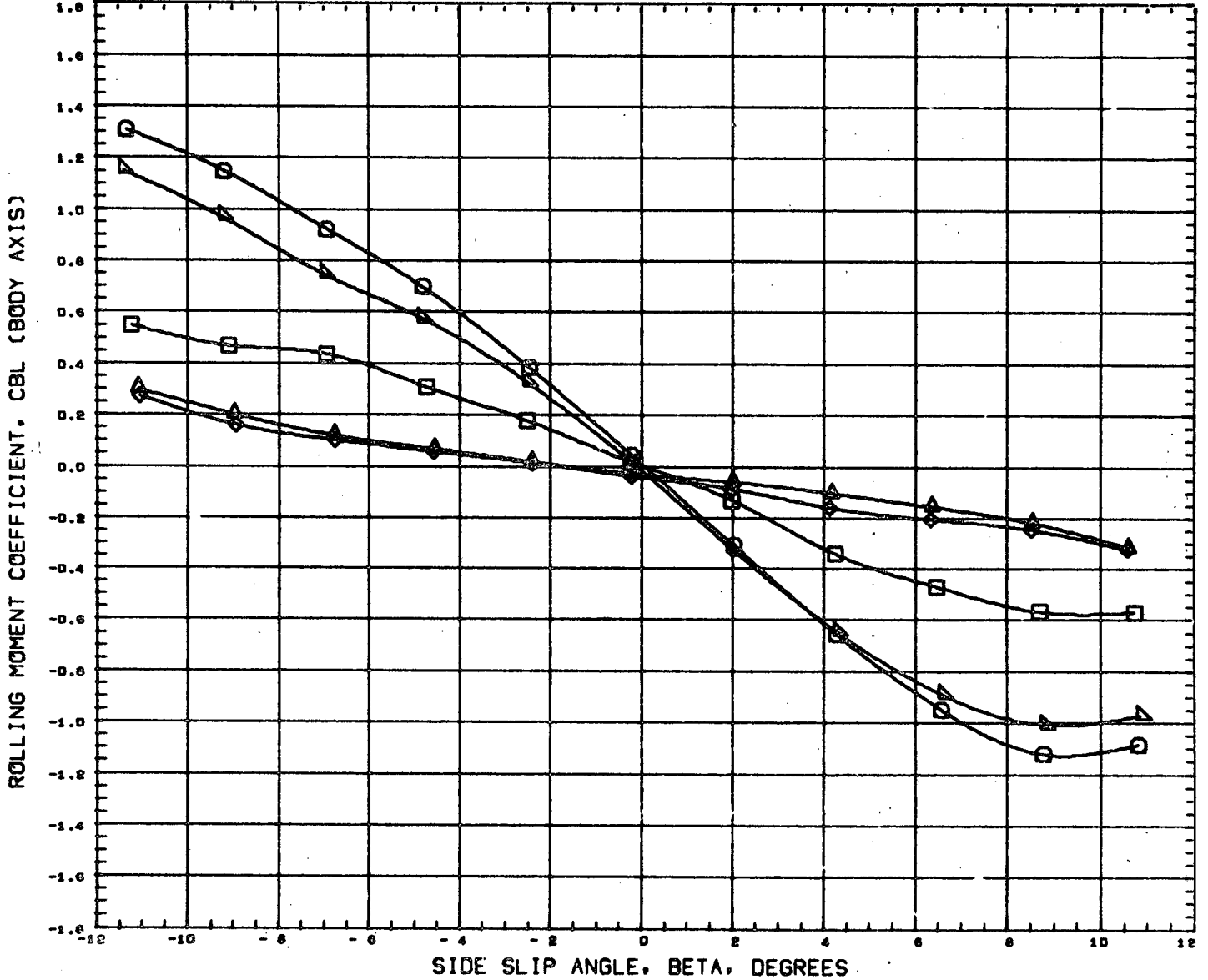
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(M50290)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R602T3	0.000	0.000			LREF	0.9350 SQ. IN.
(M50300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D04T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(M50280)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D003T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(M50200)	MSFC 512 GD/C .003308 BOOSTER/ORD. B34R6T1D001T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(AS019A)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP	0.0000 INCHES
					0.000	ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.452

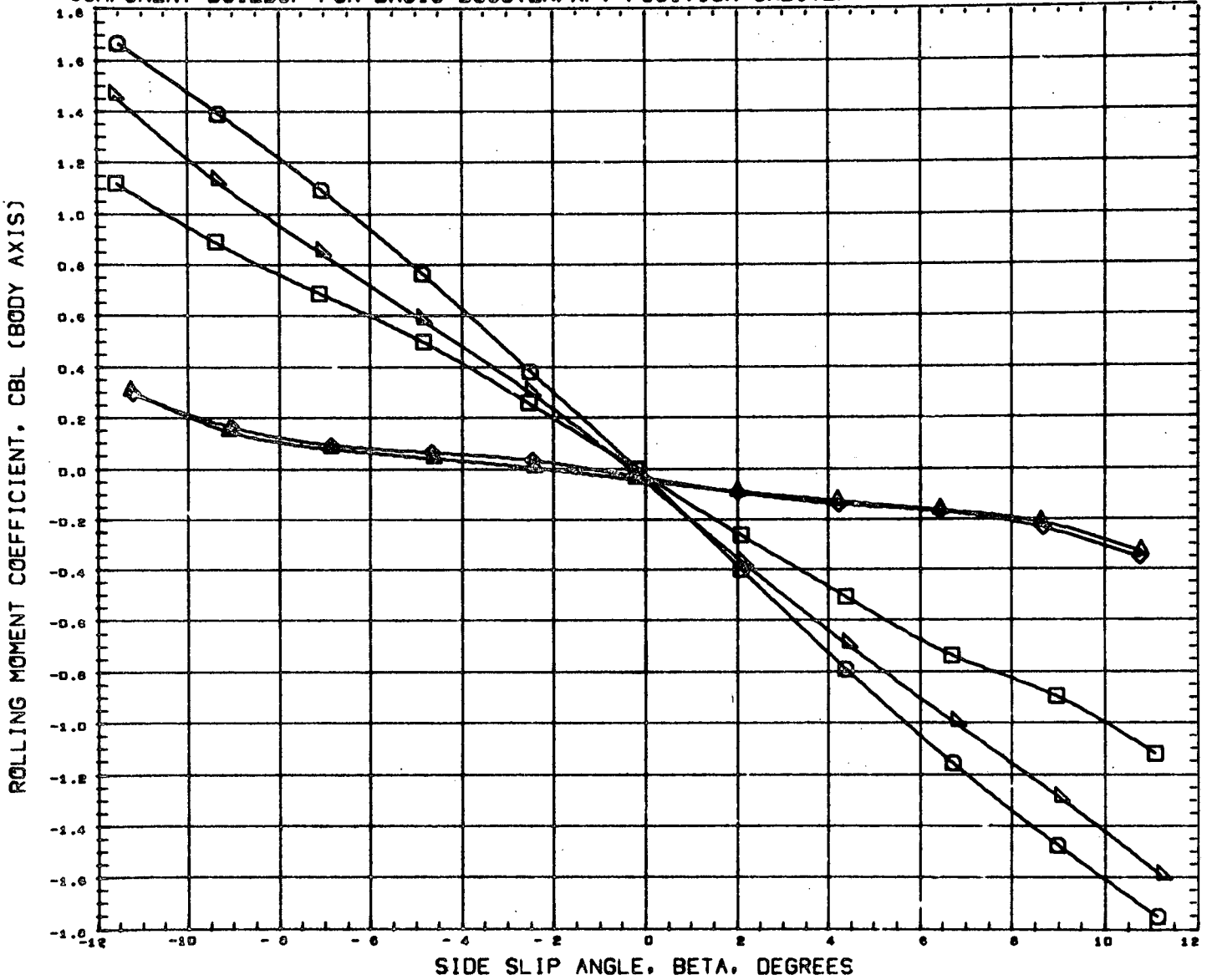
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMGD	LFLAP	RFLAP	REFERENCE INFORMATION	
(MS0250)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			LREF	0.9350 SQ. IN.
(MS0300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(AS019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.912

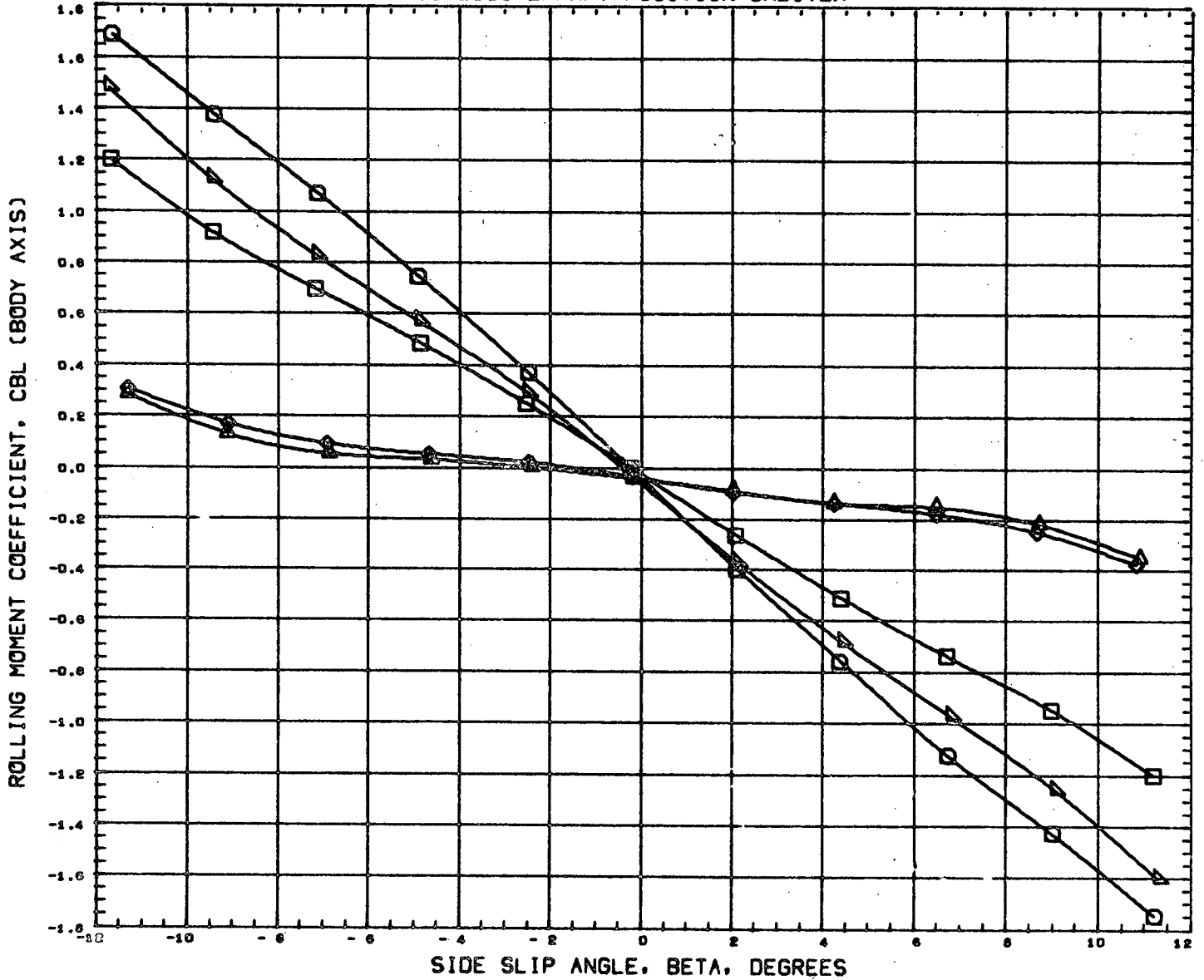
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MS0250)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R602T3	0.000	0.000			SREF 0.9350 SQ. IN.
(MS0300)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(MS0200)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(MS0200)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XHRP 3.7920 INCHES
(AS019A)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.102

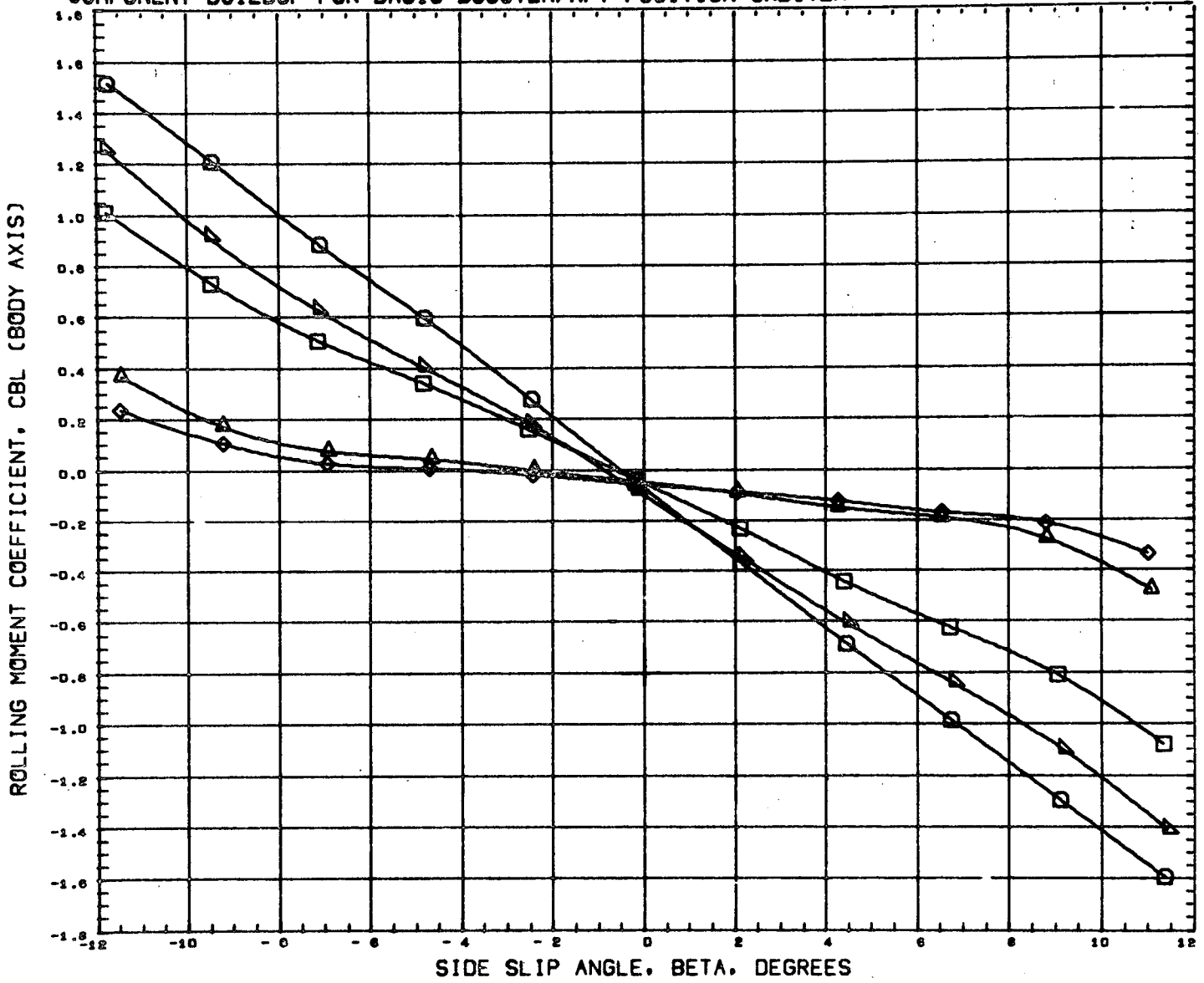
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(NS0250)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			SREF 0.9350 89. IN.
(NS0300)	MSFC 512 GD/C .003360 BOOSTER/ORB. B34R6T10C4 T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(NS0260)	MSFC 512 GD/C .003360 BOOSTER/ORB. B34R6T10D3 T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(NS0200)	MSFC 512 GD/C .003360 BOOSTER/ORB. B34R6T10D1 T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(AS019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10D2 T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

NACH 1.204

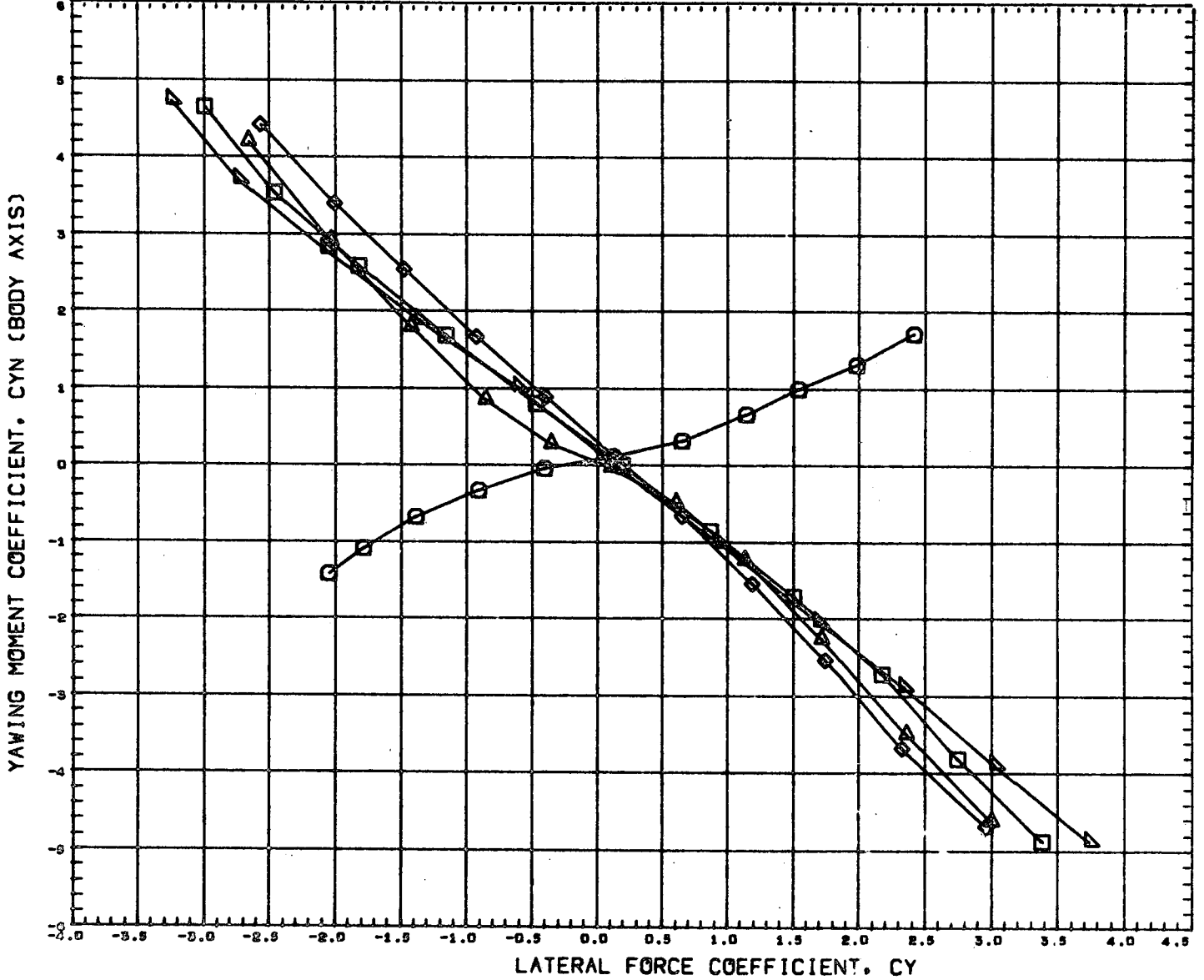
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MS0250)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			SREF 0.9390 SQ. IN.
(MS0300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(AS019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.462

COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER

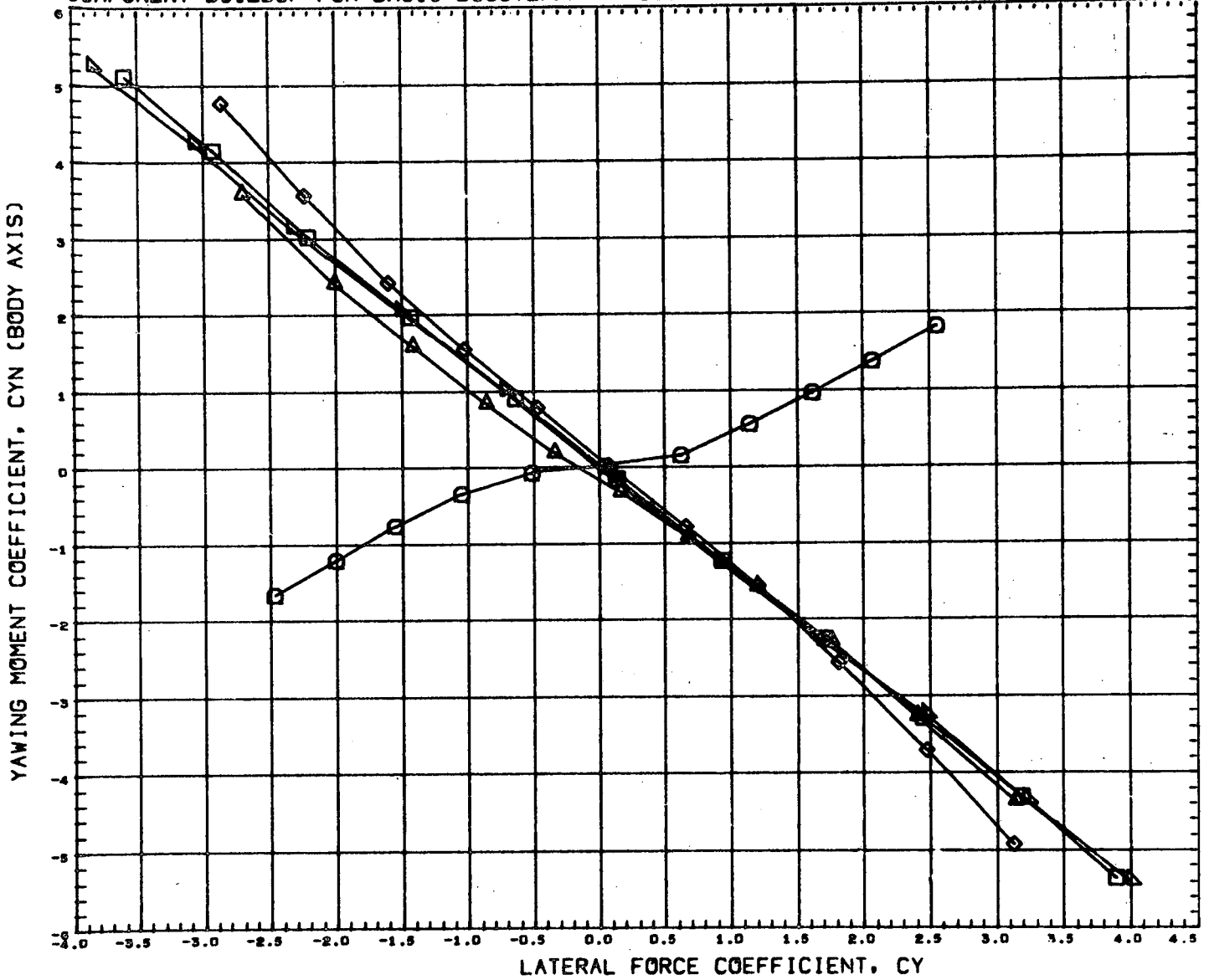


LATERAL FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(MS0250)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			SREF	0.9350 SQ. IN.
(MS0300)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R6T10C4T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(MS0280)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R6T8D03T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(MS0200)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(AS019A)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.802

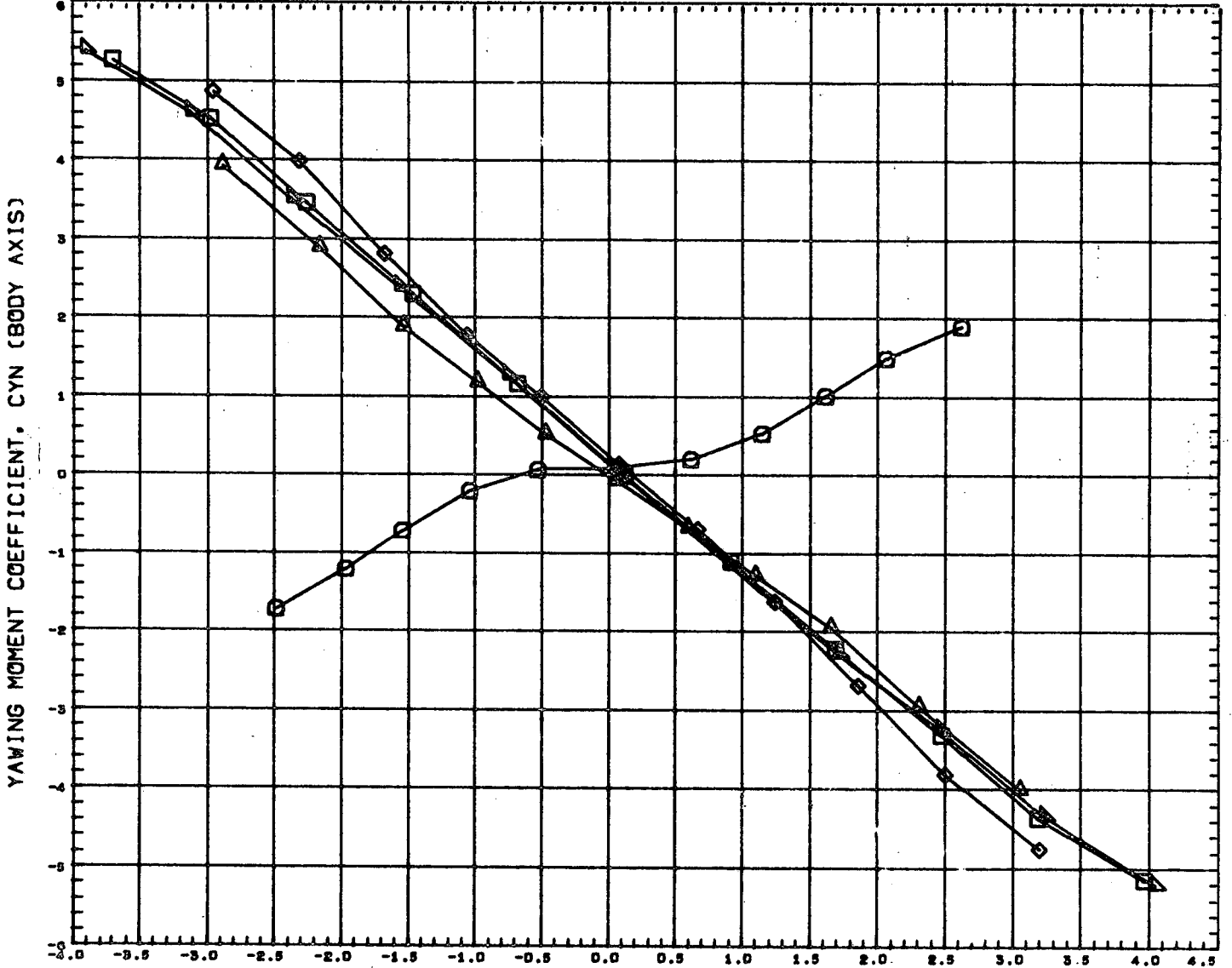
COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H5D250)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			JREF 0.9350 SQ. IN.
(H5D300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(H5D280)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(H5D200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(A5Q19A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.102

COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER

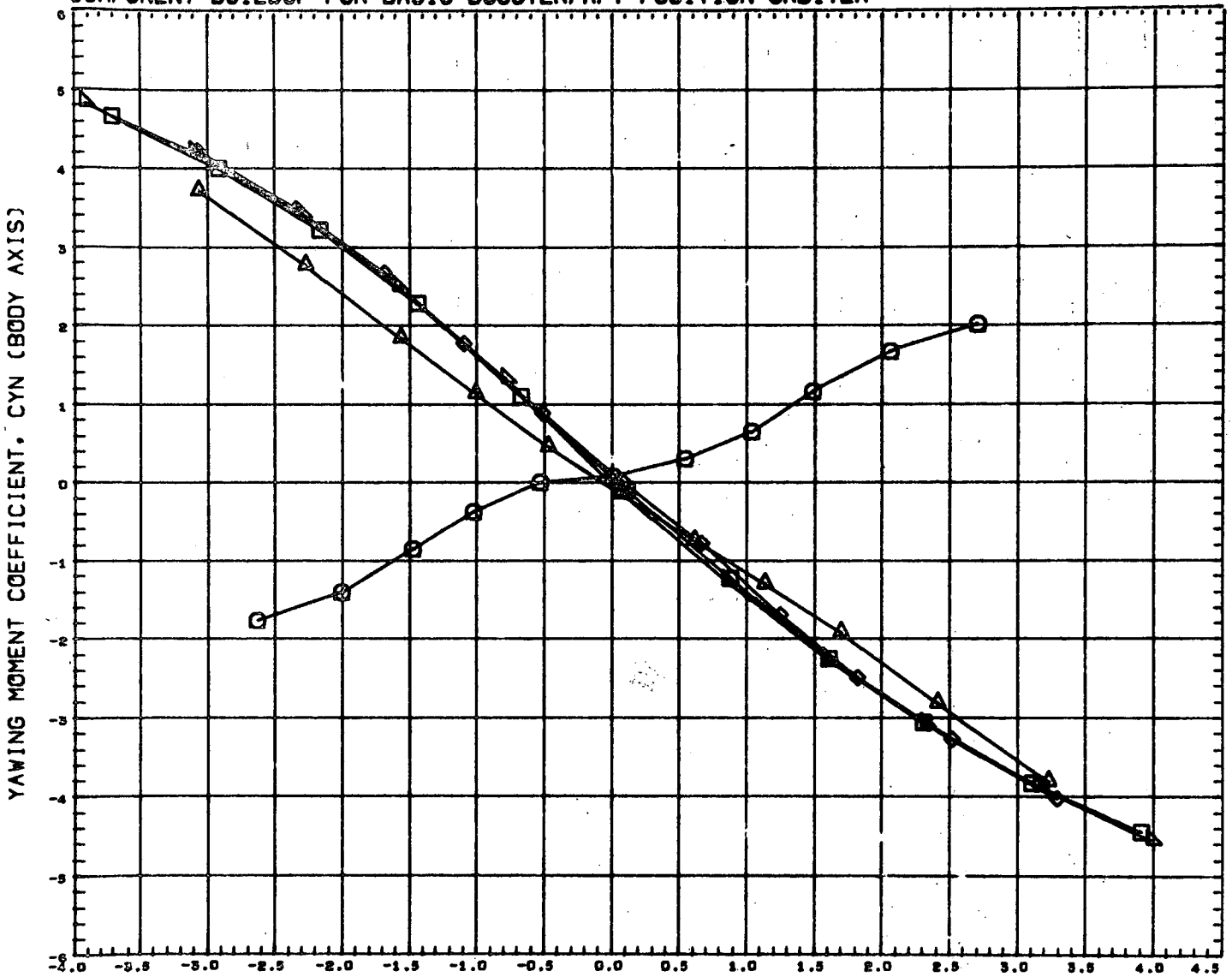


LATERAL FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(HSD250)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			SREF	0.9350 80. IN.
(HSD300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004 T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(HSD200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003 T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(HSD200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001 T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(A5019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002 T3	0.000	0.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.204

COMPONENT BUILDUP FOR BASIC BOOSTER/AFT POSITION ORBITER

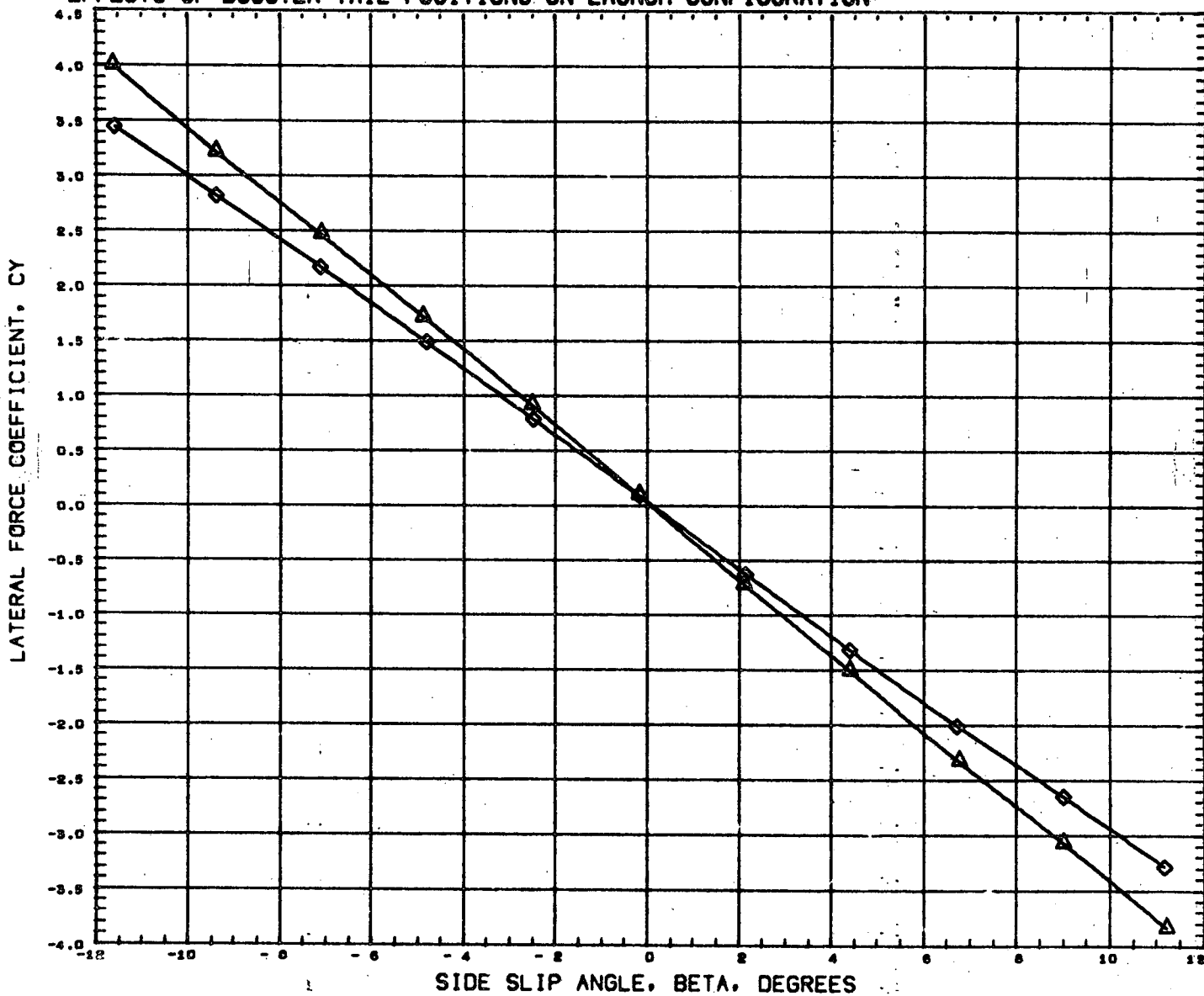


LATERAL FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H50250)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R602T3	0.000	0.000			SREF 0.9350 80. IN.
(H50300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1004T3	0.000	0.000	0.000	0.000	LREF 0.2310 INCHES
(H50280)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(H50200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMR ⁰ 3.7920 INCHES
(A5019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.412

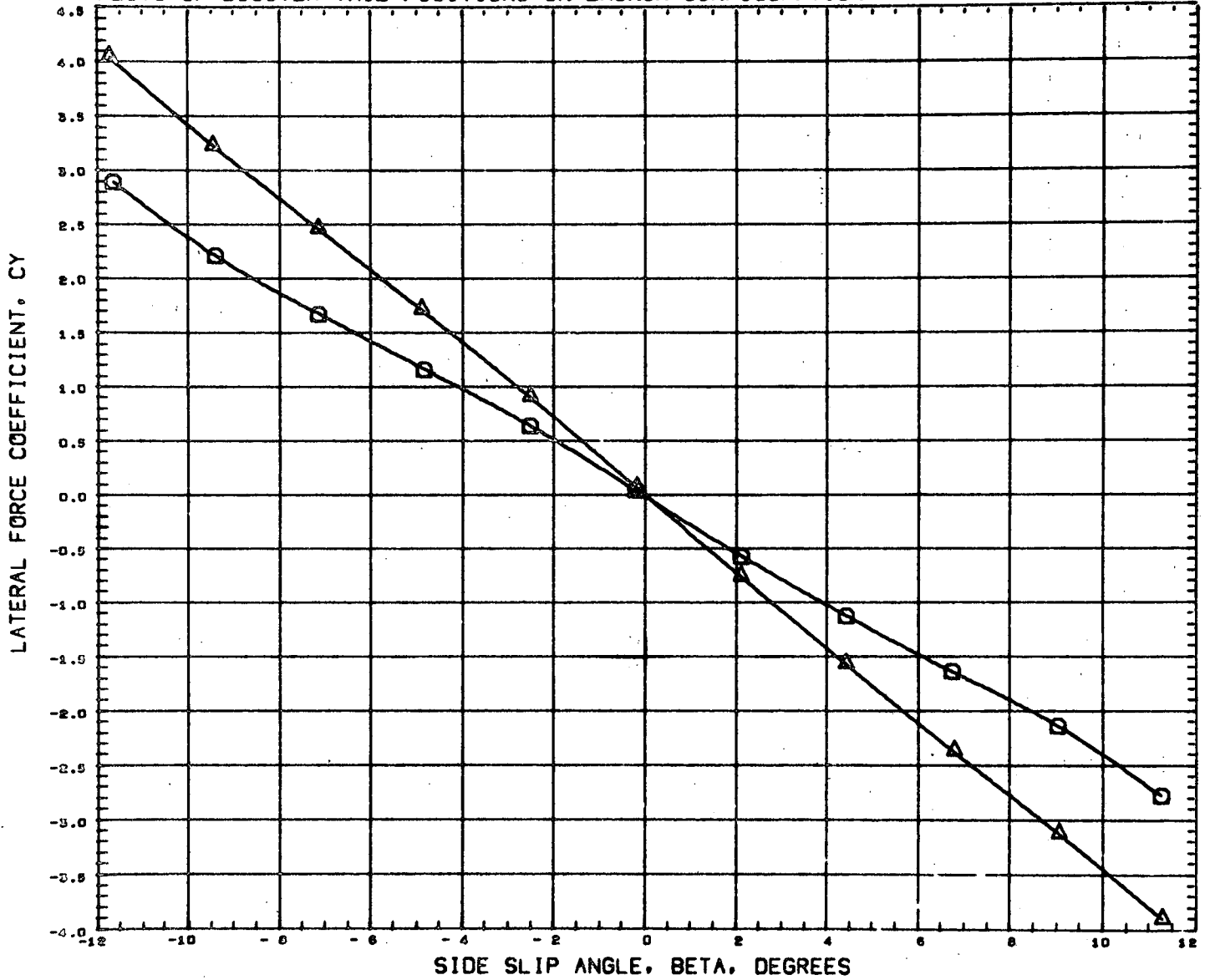
EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMCO	LFLAP	RFLAP	REFERENCE INFORMATION
(H50270)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	JREF 0.9350 SQ. IN.
(A50198)	MSFC 512 GD/C .003006 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	-0.000	LREF 6.2310 INCHES
(H50510)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.104

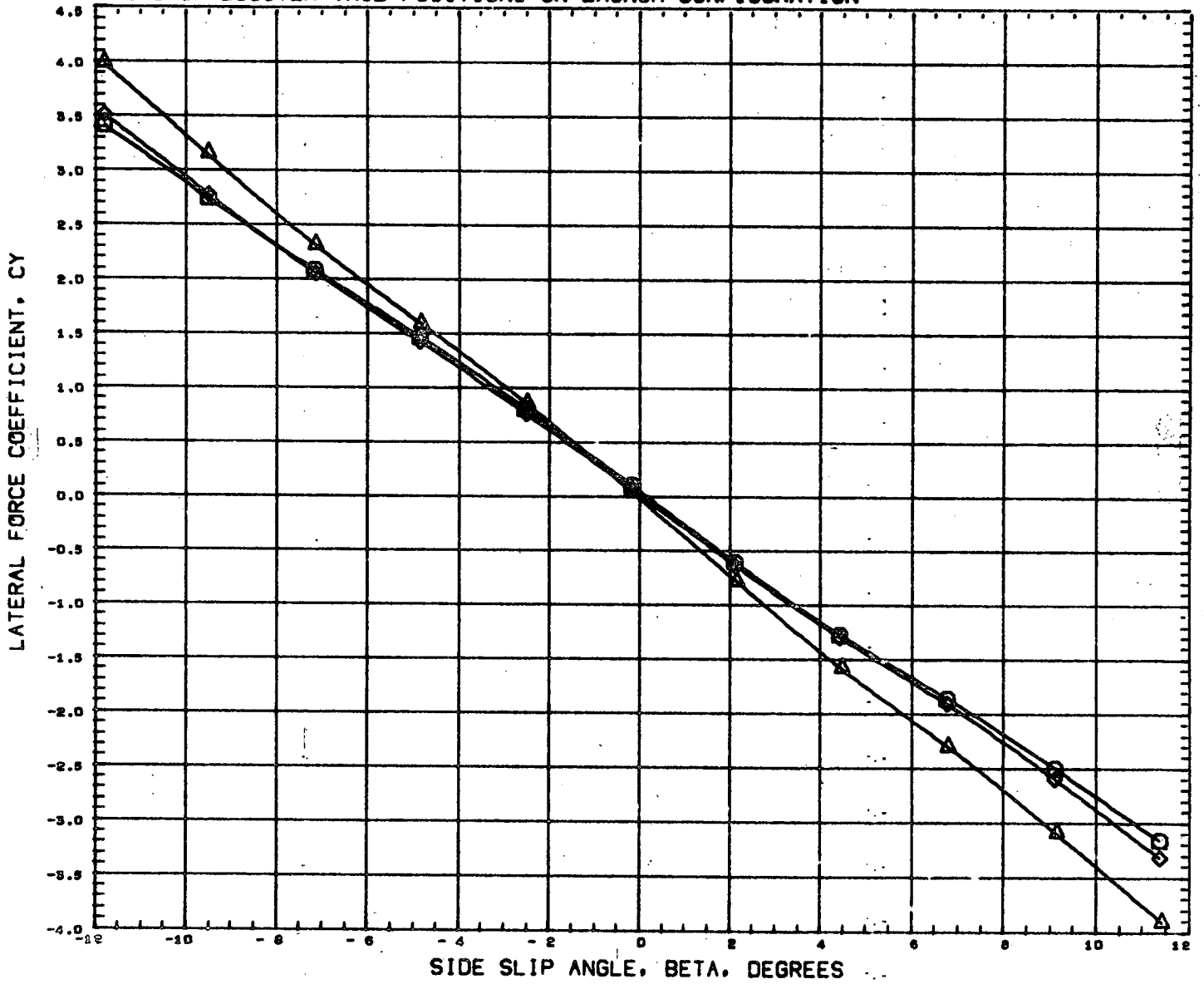
EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(M50270)	MSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	bREF	0.9350 90 IN.
(A50190)	MSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(M50310)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XNR*	3.7920 INCHES
						YHRP	0.0000 INCHES
						ZHRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.217

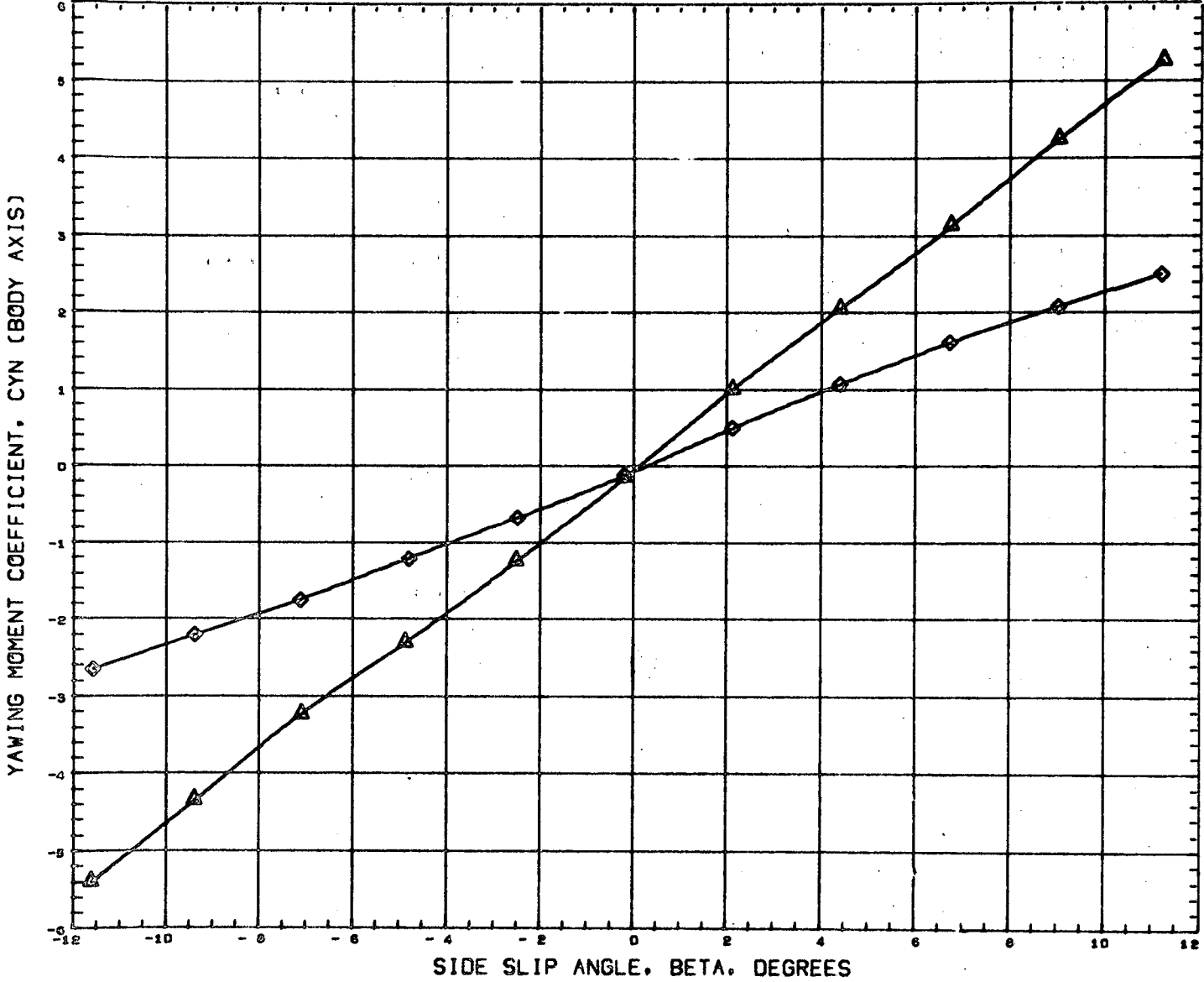
EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(MS0270)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF	0.9350 SQ. IN.
(AS0198)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	-0.000	LREF	6.2310 INCHES
(MS0310)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1602T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XMR	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.404

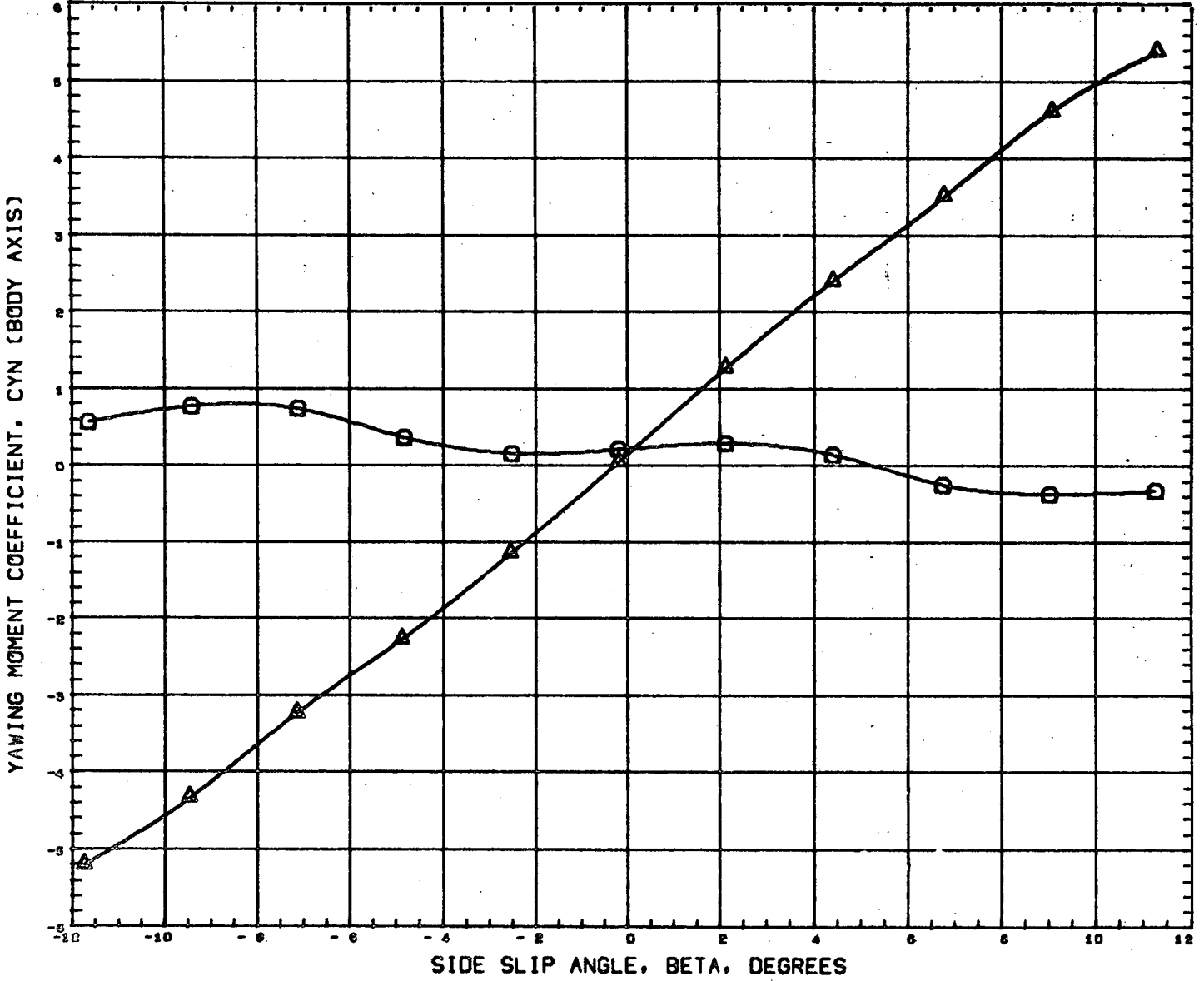
EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(H50270)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(A9016B)	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1DOPT3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(H5031D)	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T16OET3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.104

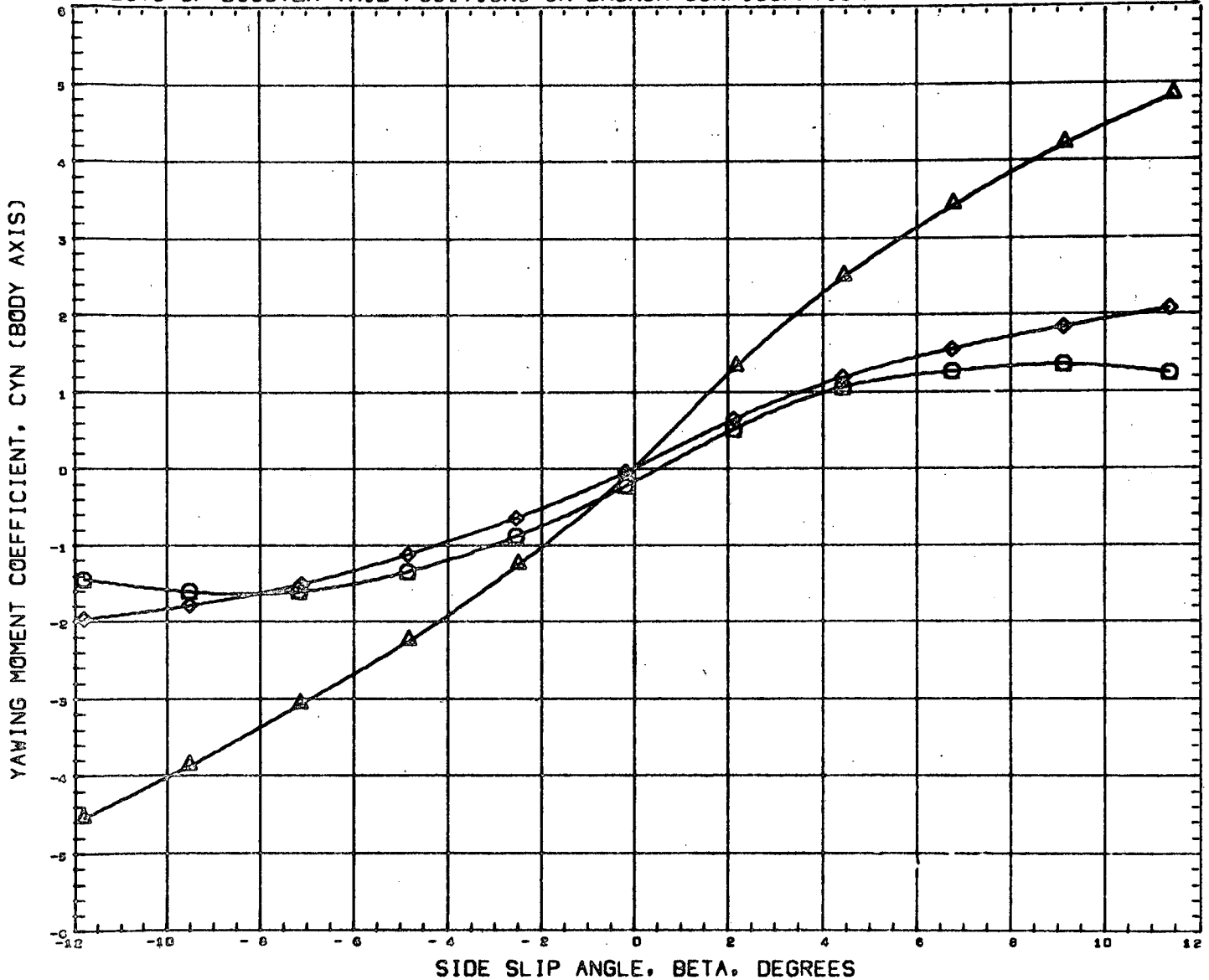
EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(MS0270)	MSFC 512 GD/C .003308 BOOSTER/ORB. B34RGT1202T3	0.000	0.000	0.000	0.000	bREF	0.9350 80. IN.
(AS019B)	MSFC 512 GD/C .003308 BOOSTER/ORB. B34RGT1072T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(MS0310)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XMR°	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.207

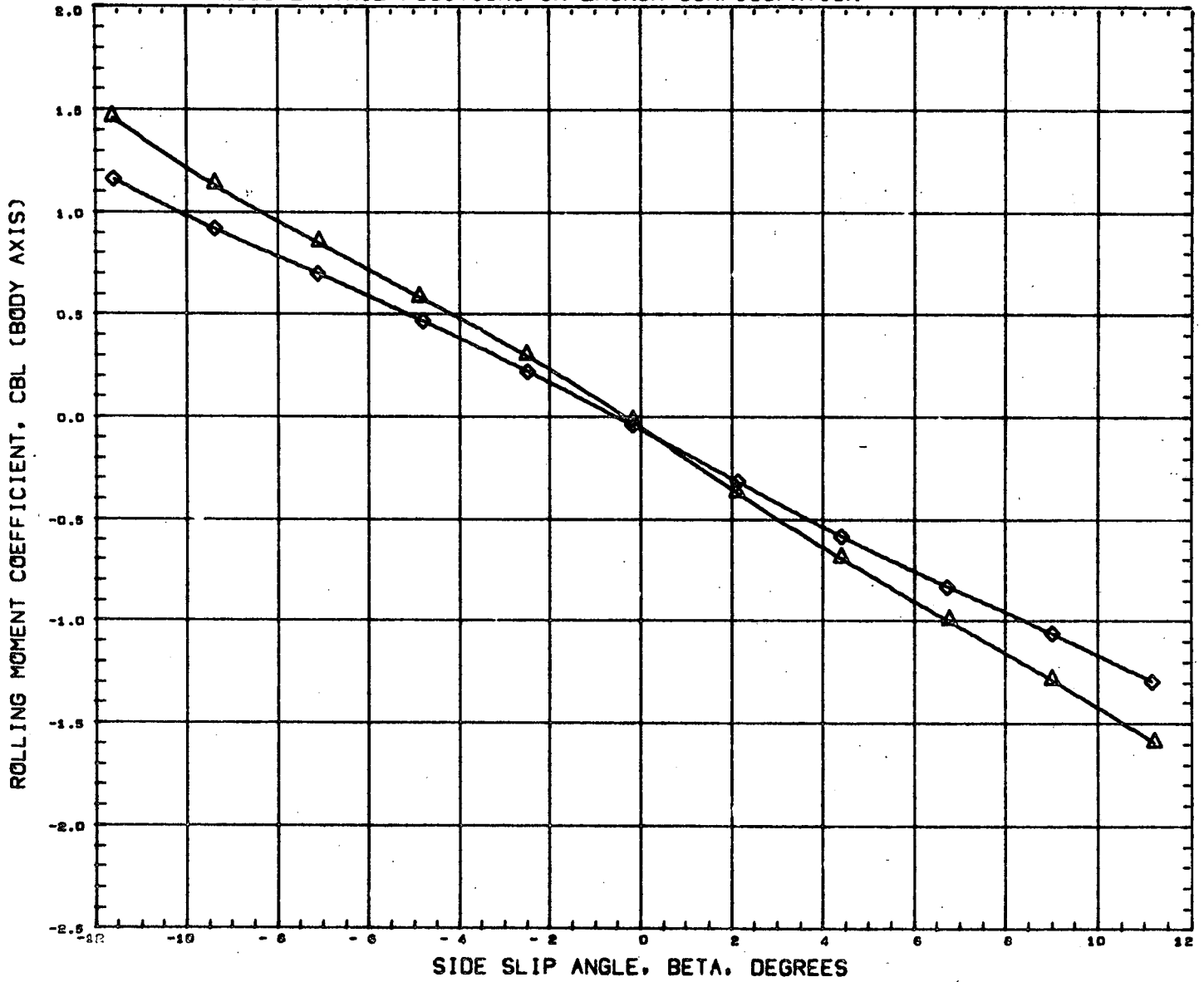
EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(M5027D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T5	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(A5019B)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T5	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(M5031D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1802T5	0.000	0.000	0.000	0.000	SREF	1.0910 INCHES
						XMR	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.464

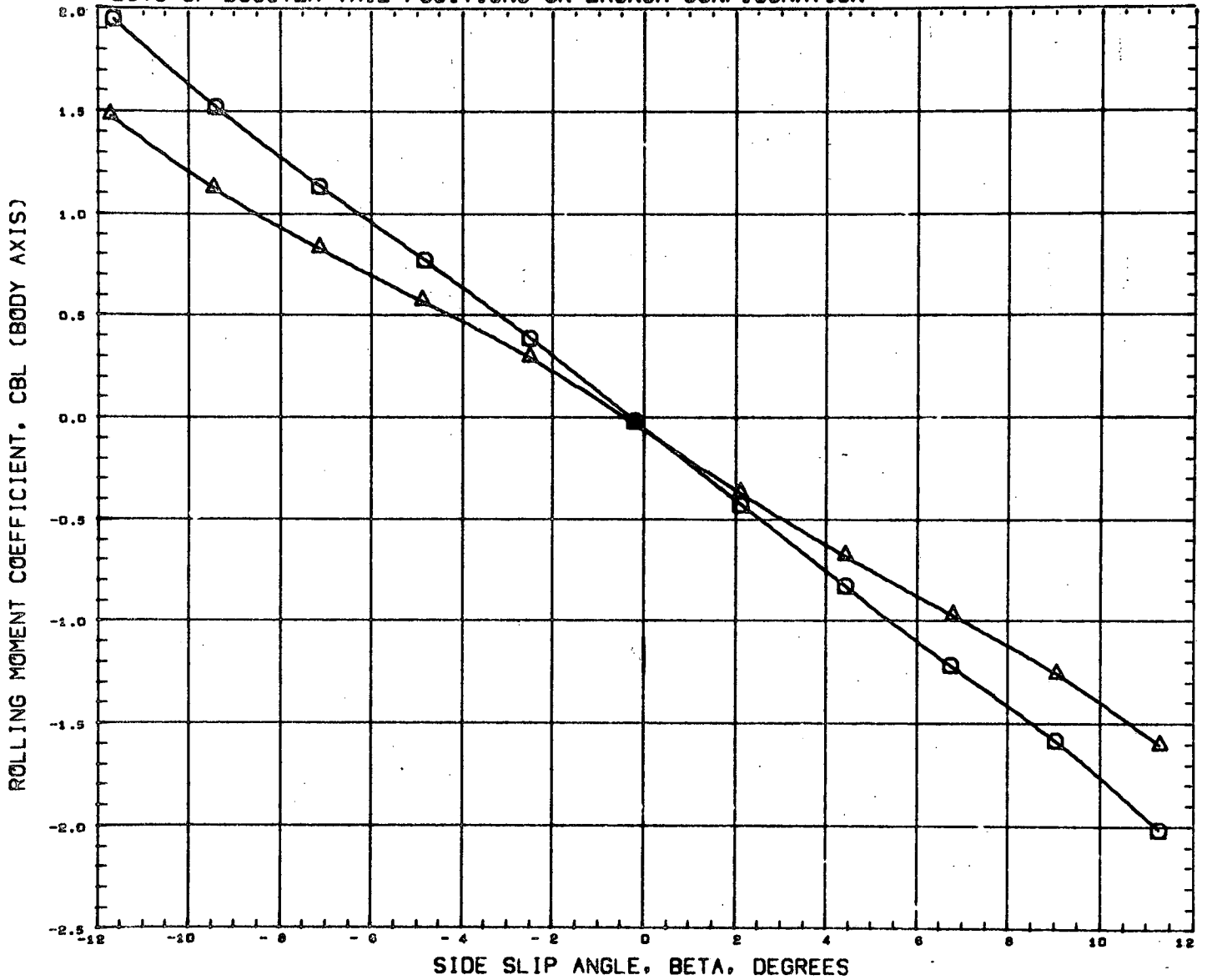
EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(MS0270)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SRF	0.9350 80. IN.
(AS0198)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(MS0310)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1002T3	3.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.104

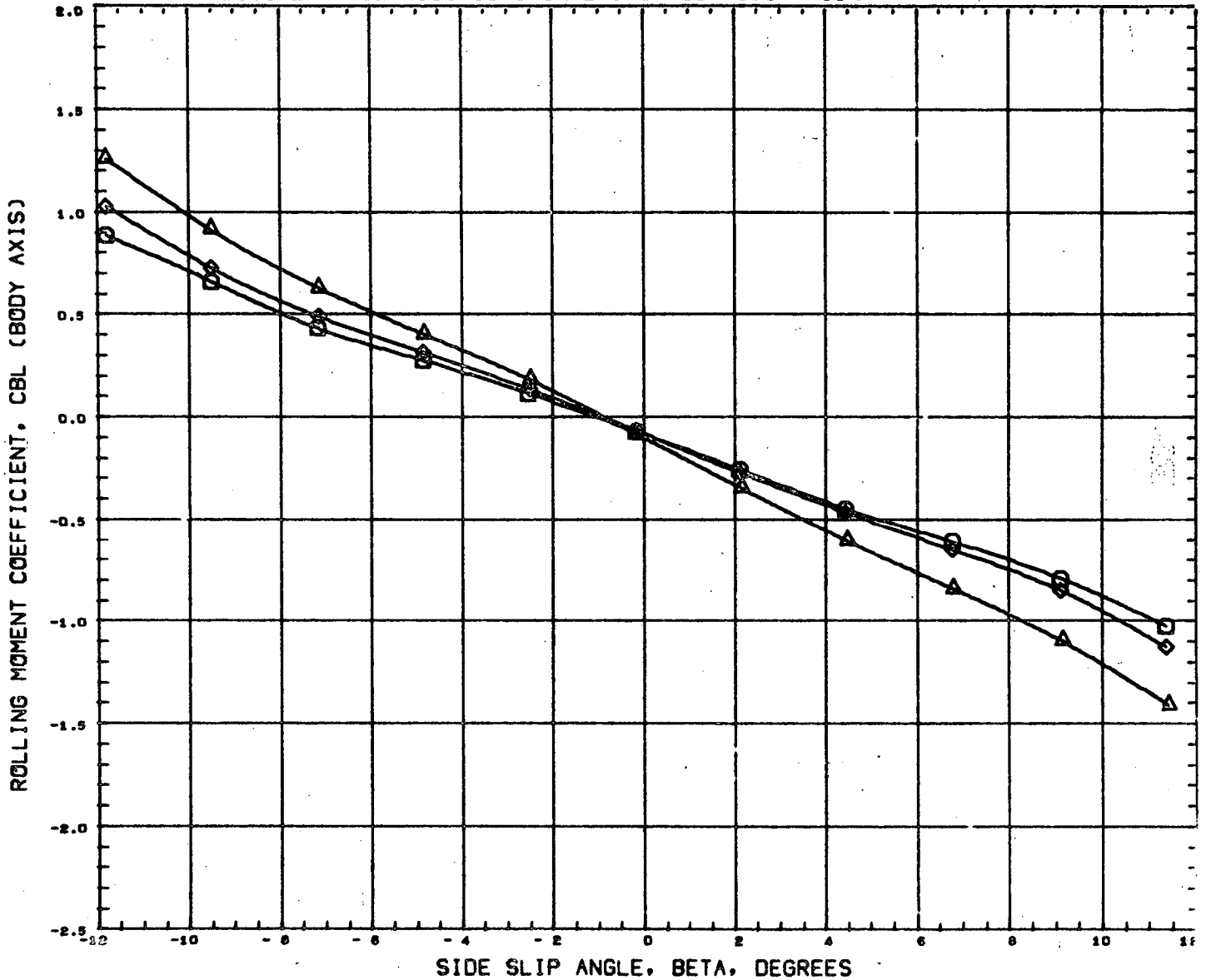
EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(MS0270)	MSFC 512 GD/C .003366 BOOSTER/ORB. 834R6T1202T3	0.000	0.000	0.000	0.000	BREF	0.9350 80. IN.
(AS019B)	MSFC 512 GD/C .003366 BOOSTER/ORB. 834R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(MS0310)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0810 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.217

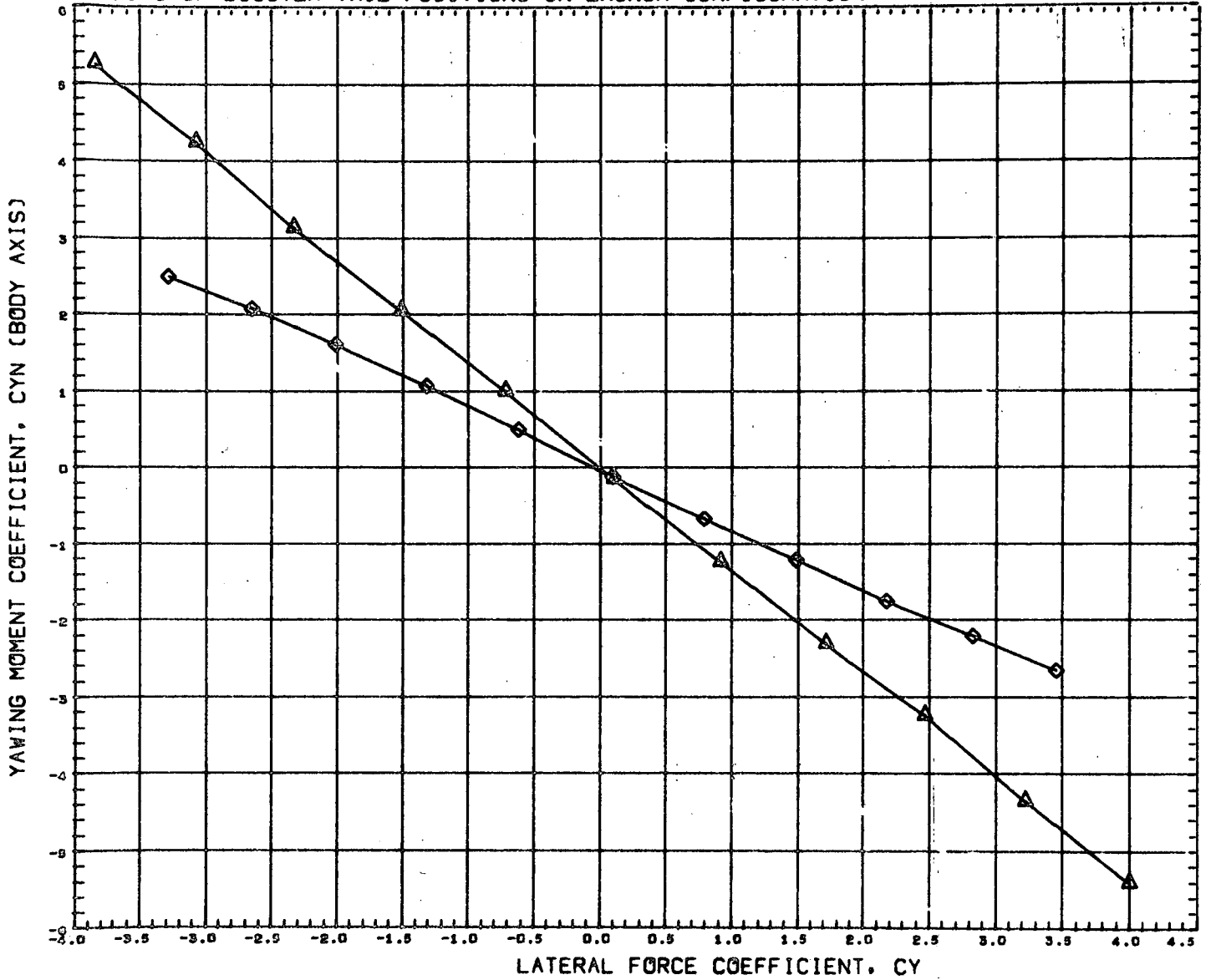
EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(H50270)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	BREF	0.9350 SQ. IN.
(A50198)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(H50310)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T802T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						XVWP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.484

EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION

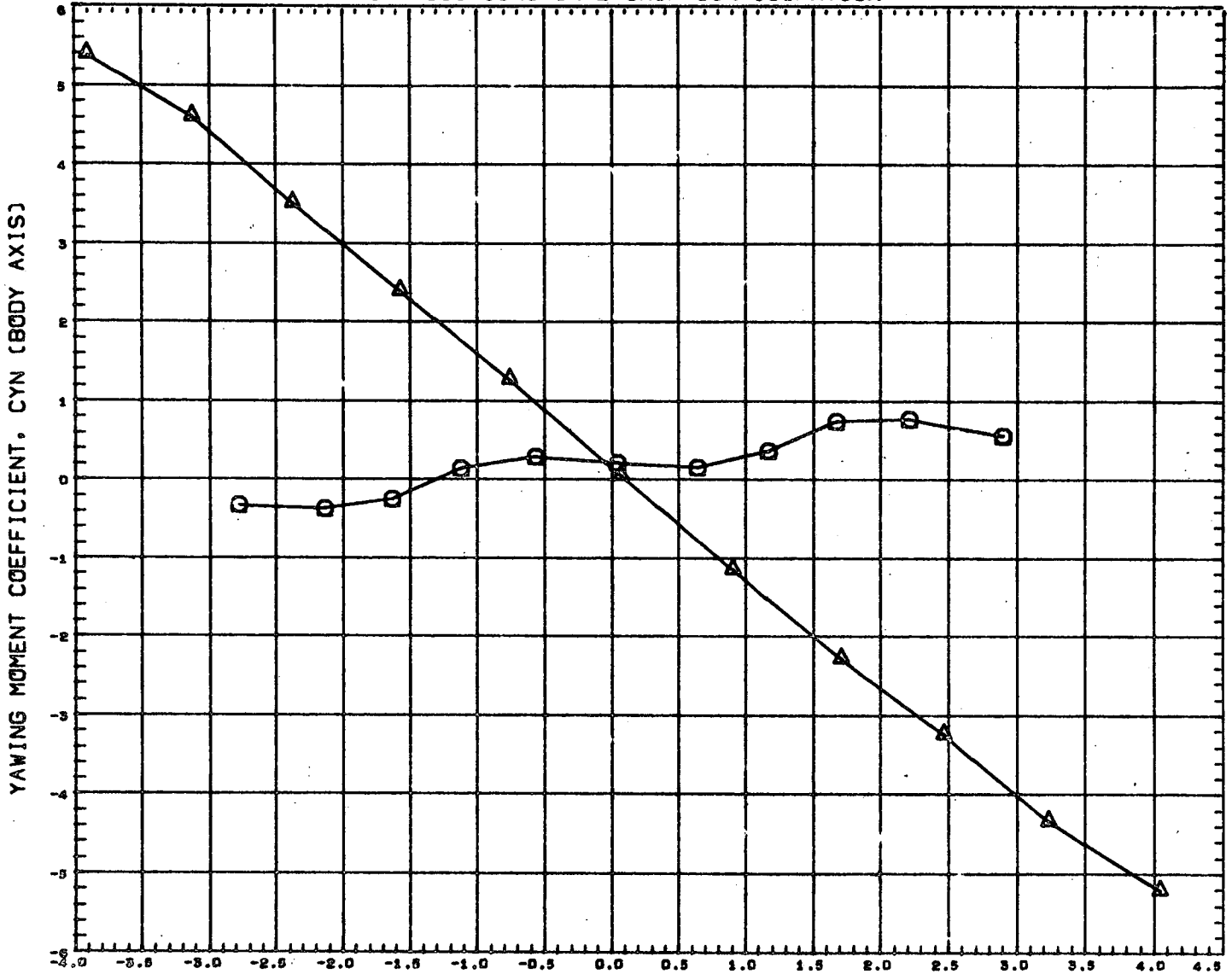


LATERAL FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(M3027D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 0.9350 SQ. IN.
(M3019B)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(M30310)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1802T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
						XMR 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.104

EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION



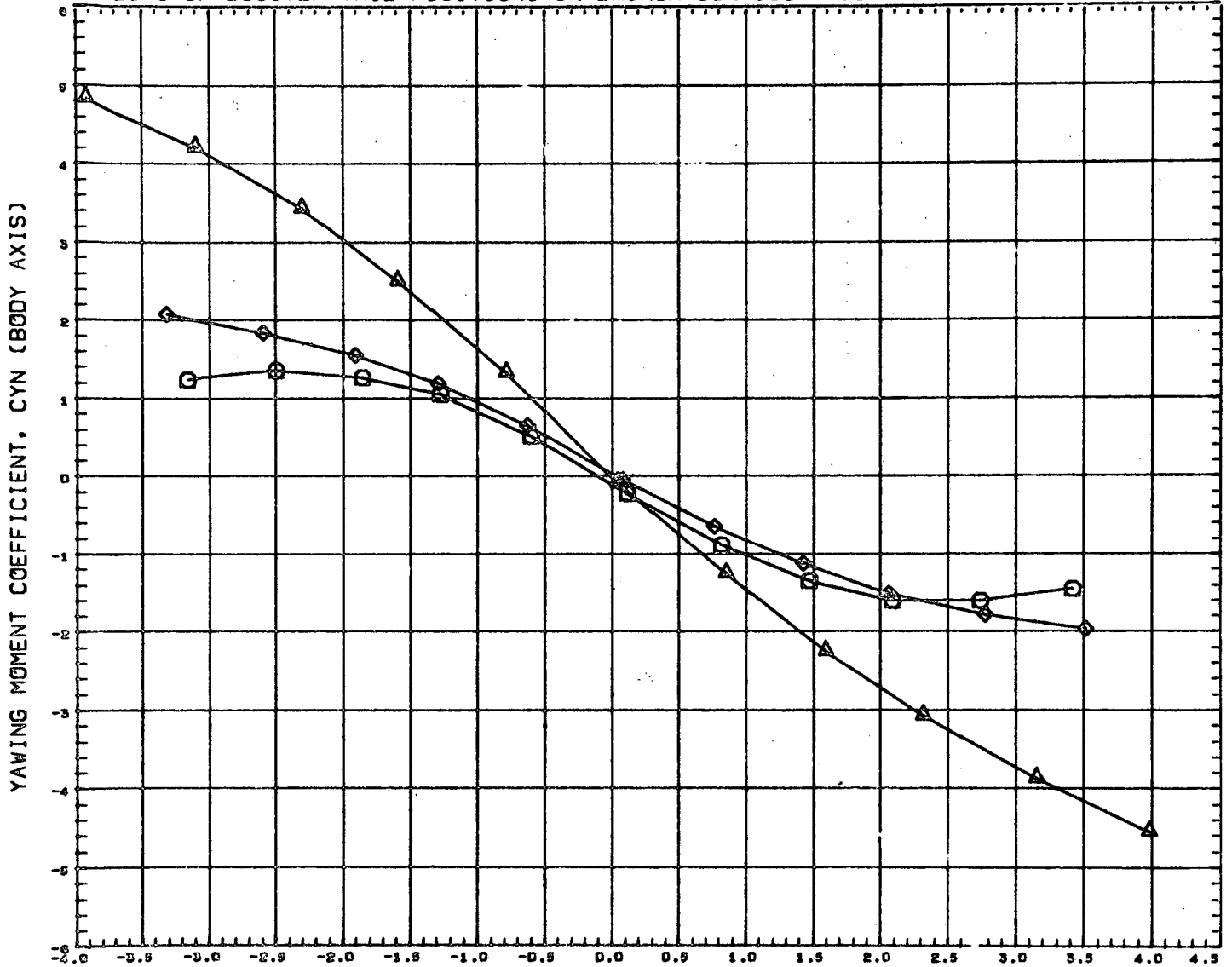
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(H50270)	MSFC 512 GD/C .003300 BOOSTER/ORB. B34R6T1202T3
(A5019B)	MSFC 512 GD/C .003300 BOOSTER/ORB. B34R6T1002T3
(H50310)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	PHIMOD	LFLAP	RFLAP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

REFERENCE INFORMATION		
JREF	0.9350	80. IN.
LREF	6.2310	INCHES
BREF	1.0910	INCHES
XMP	3.7920	INCHES
YMRP	0.0000	INCHES
ZMRP	0.0000	INCHES
SCALE	0.0034	

HACH 1.237

EFFECTS OF BOOSTER TAIL POSITIONS ON LAUNCH CONFIGURATION

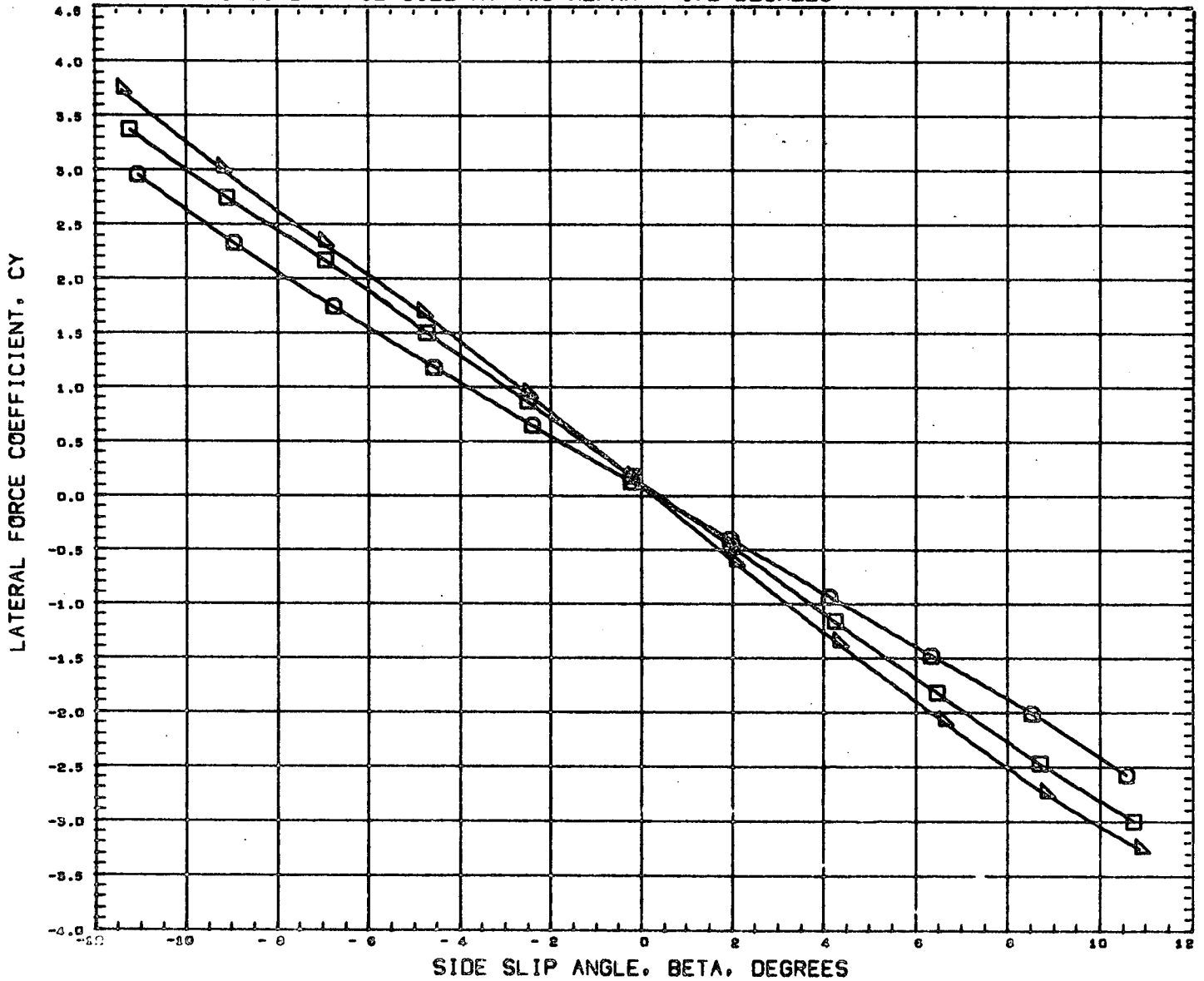


LATERAL FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(HS0270)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1202T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(AS0390)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(HS0310)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1802T3	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
						YMRP	3.7920 INCHES
						ZMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.464

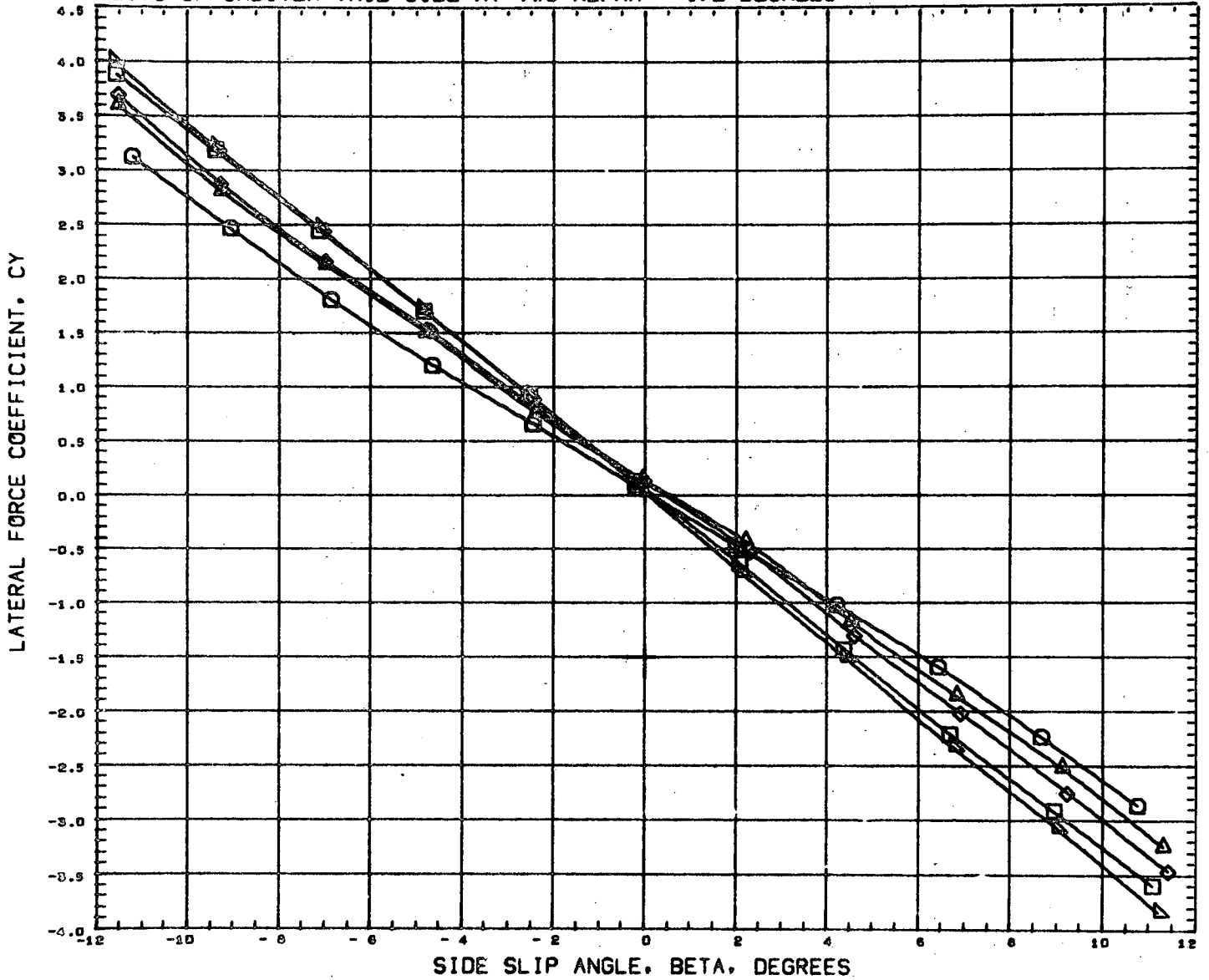
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(H90280)	MSFC 512 6D/C .003366 BOOSTER/ORD. B94R6T1008T3	0.000	0.000	0.000	0.000	bREF	0.9350 86. IN.
(H90210)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(H90220)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF	1.0910 INCHES
(H90200)	MSFC 512 6D/C .003366 BOOSTER/CRB. B94R6T1001T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(A5019A)	MSFC 512 6D/C .003366 BOOSTER/ORD. B94R6T1002T3	0.000	0.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.910

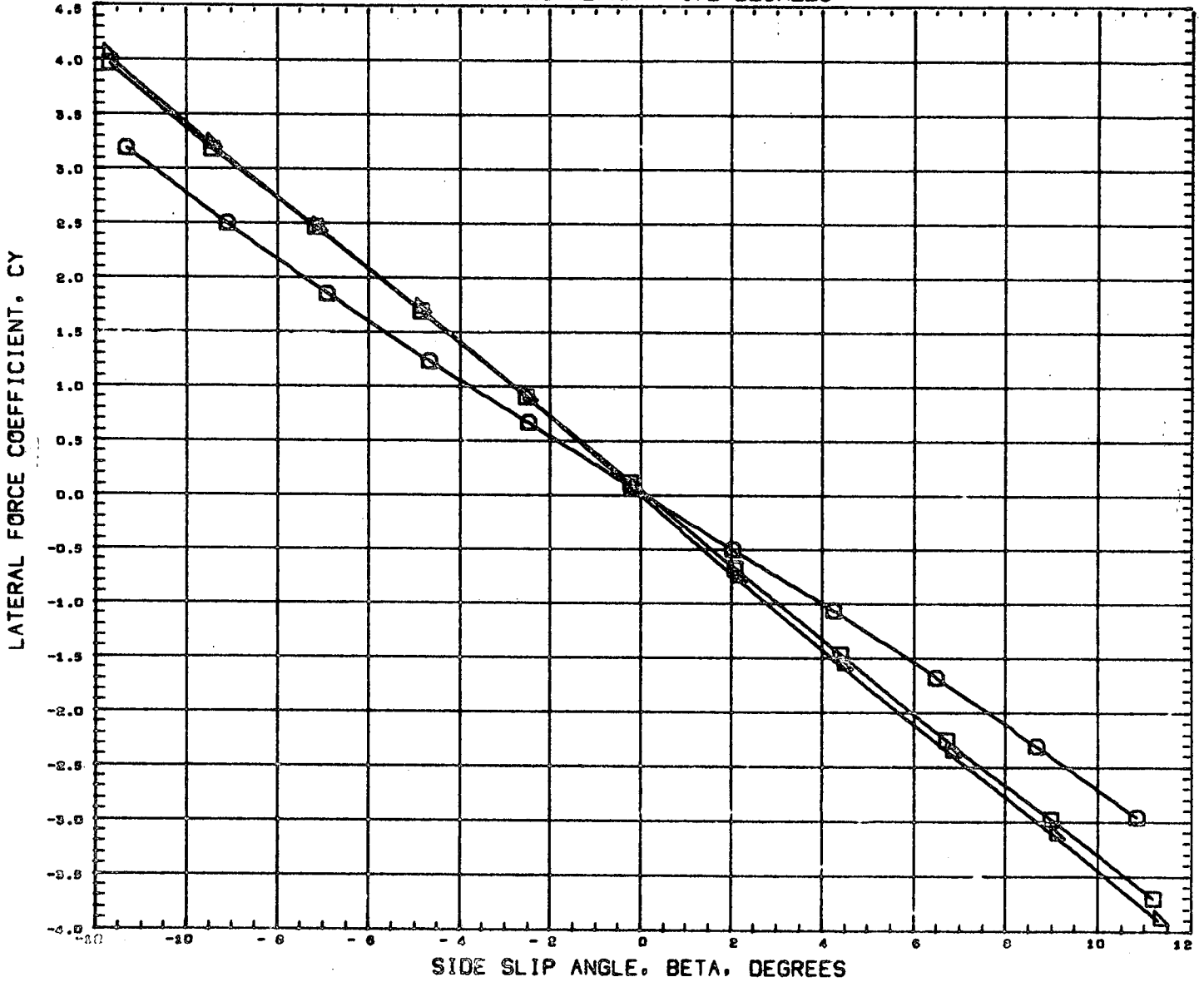
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(HSD200)		MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	LREF 0.9350 80.1N.
(HSD210)		MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(HSD220)		MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	43.000	0.000	0.000	BREF 1.0910 INCHES
(HSD200)		MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(ASD19A)		MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.100

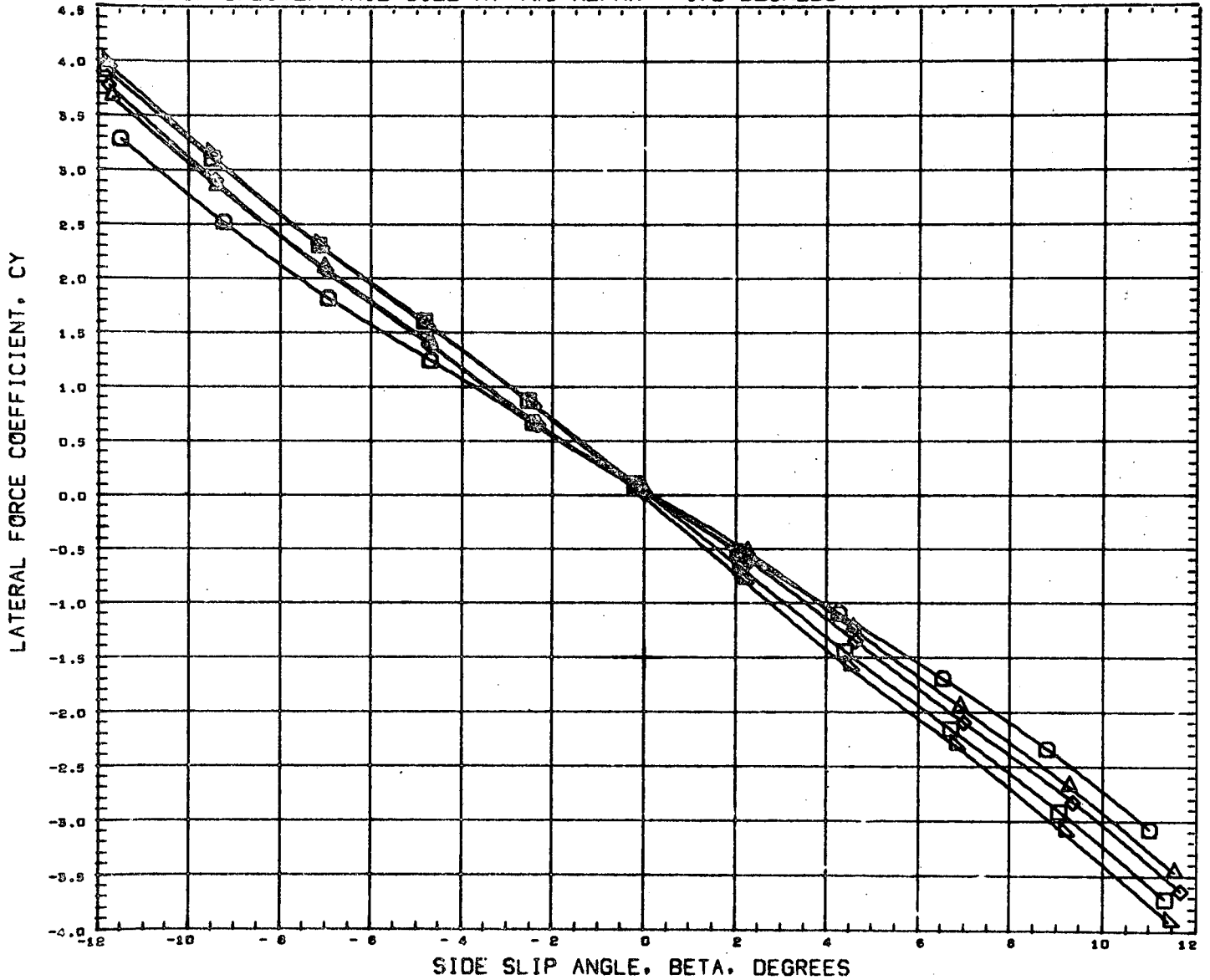
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIN00	LFLAP	RFLAP	REFERENCE INFORMATION	
(H50200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34RGT1003T3	0.000	0.000	0.000	0.000	LREF	0.9350 88. IN.
(H50210)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(H50220)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF	1.0910 INCHES
(H50200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34RGT1001T3	0.000	0.000	0.000	0.000	XMRP	3.7020 INCHES
(A5010A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34RGT1002T3	0.000	0.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.202

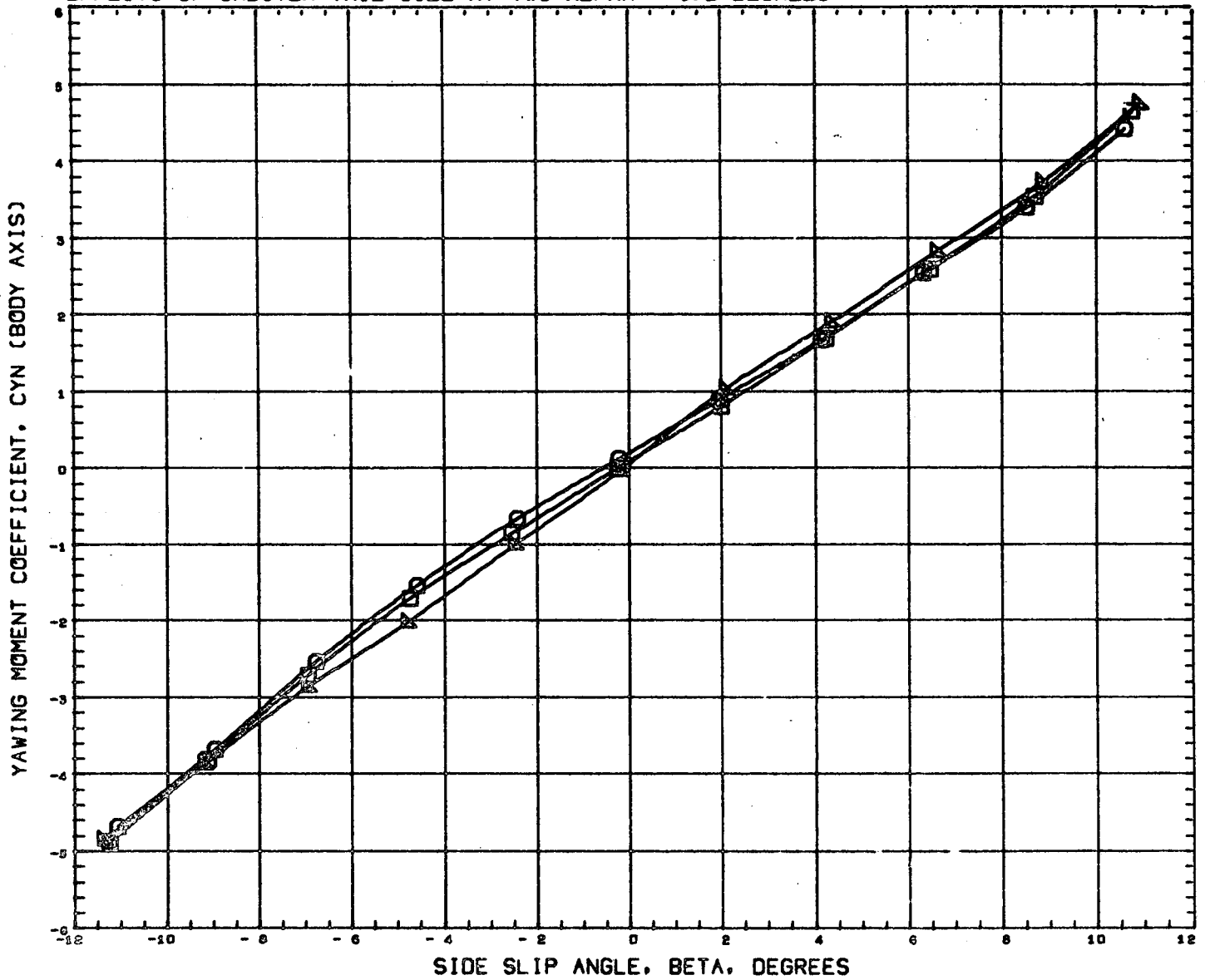
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHINCO	LFLAP	RFLAP	REFERENCE INFORMATION
(MSD200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	.REF 0.9350 SQ. IN.
(MSD210)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001 T3	-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(MSD220)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(MSD200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001 T3	0.000	0.000	0.000	0.000	XHFP 3.7920 INCHES
(A5019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.466

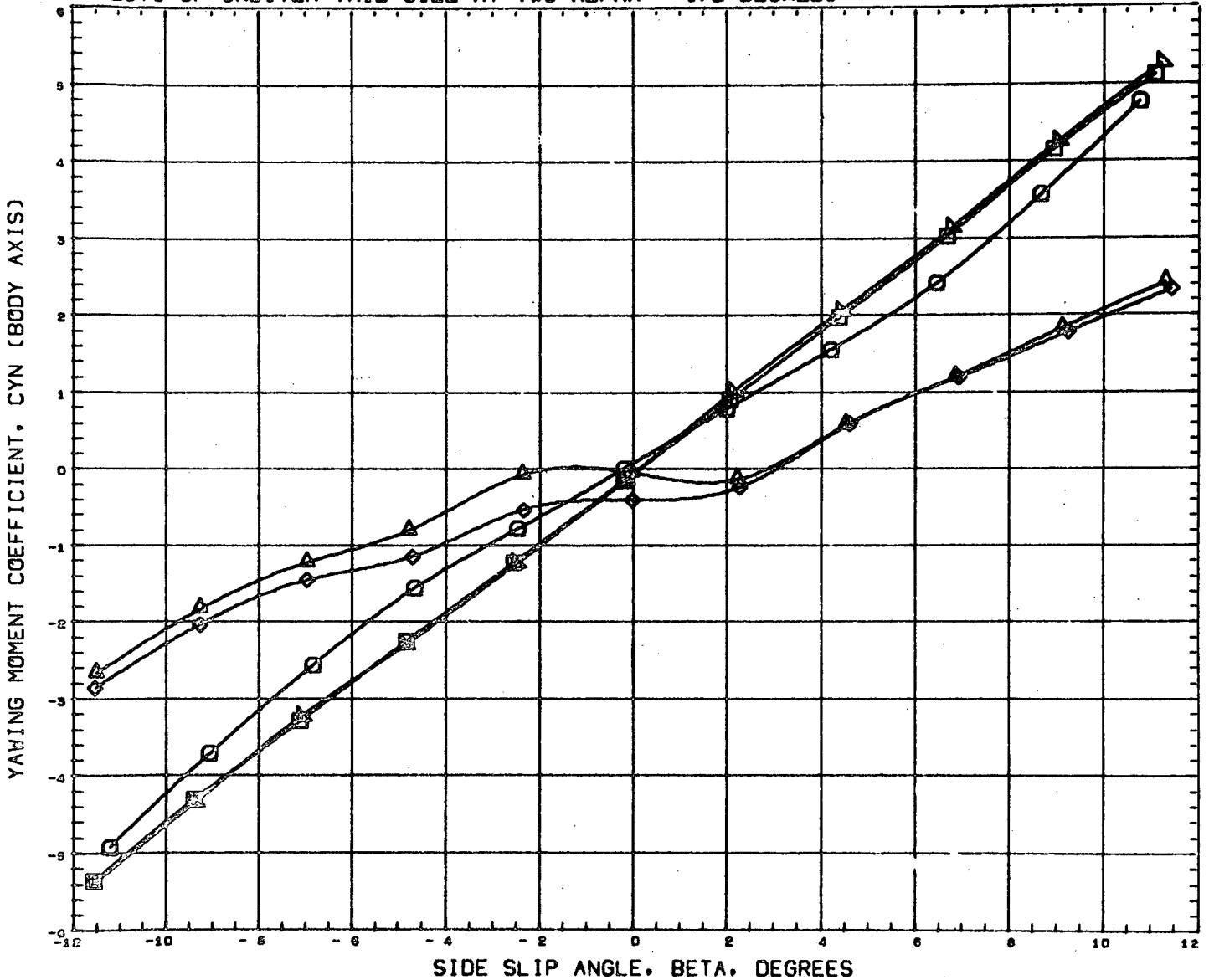
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H50280)	NSFC 512 GD/C .003566 BOOSTER/ORB. B34RGT1D03T3	0.000	0.000	0.000	0.000	SR _{LF} 0.9350 89. IN.
(H50210)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(H50220)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(H50200)	NSFC 512 GD/C .003566 BOOSTER/ORB. B34RGT1D01T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(A5019A)	NSFC 512 GD/C .003566 BOOSTER/ORB. B34RGT1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

HACH 0.900

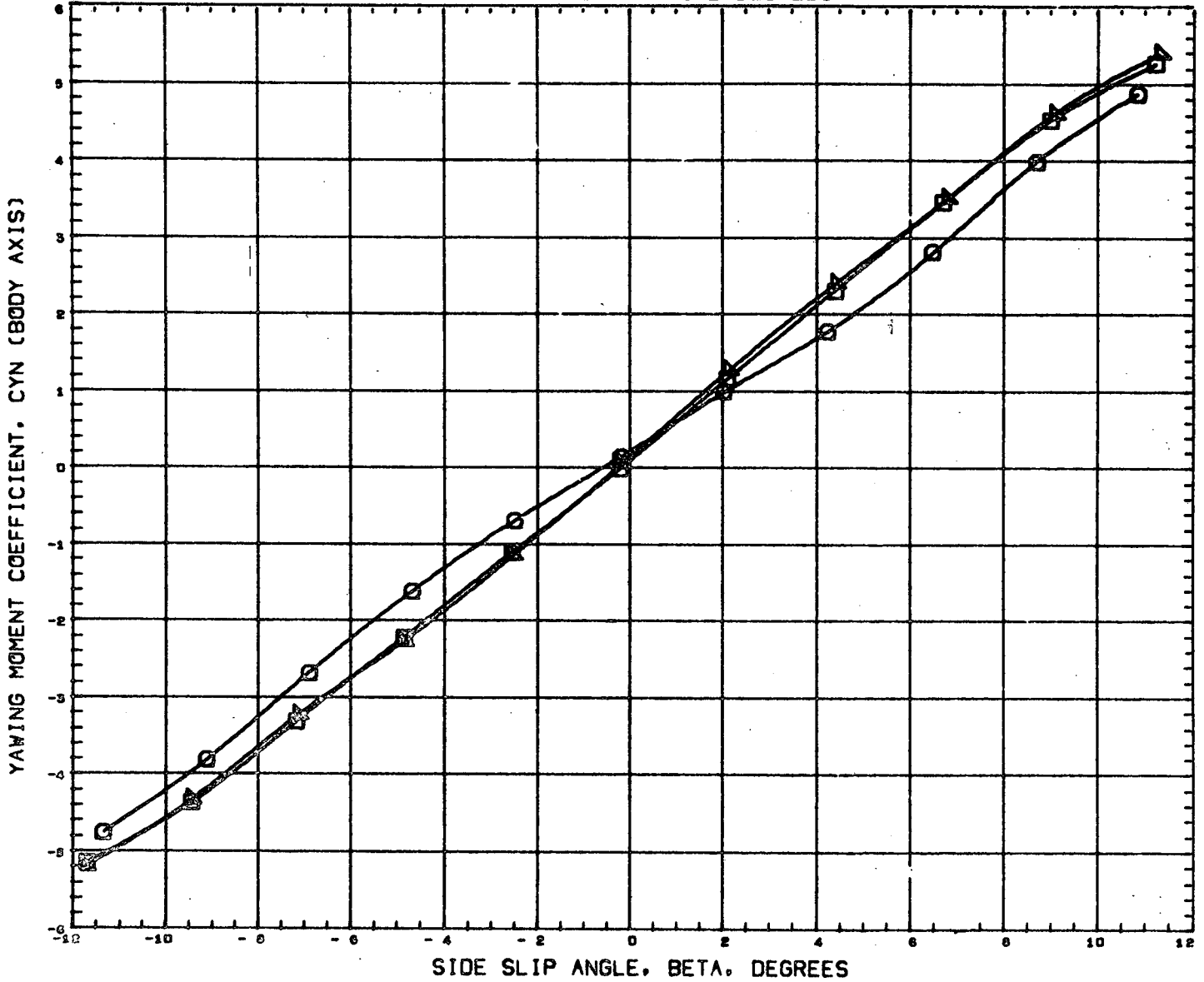
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H50200)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	SKEF 0.9350 30. IN.
(H50210)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T10C1T3	-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(H50220)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	RREF 1.0910 INCHES
(H50200)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRF 3.7920 INCHES
(A5019A)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.100

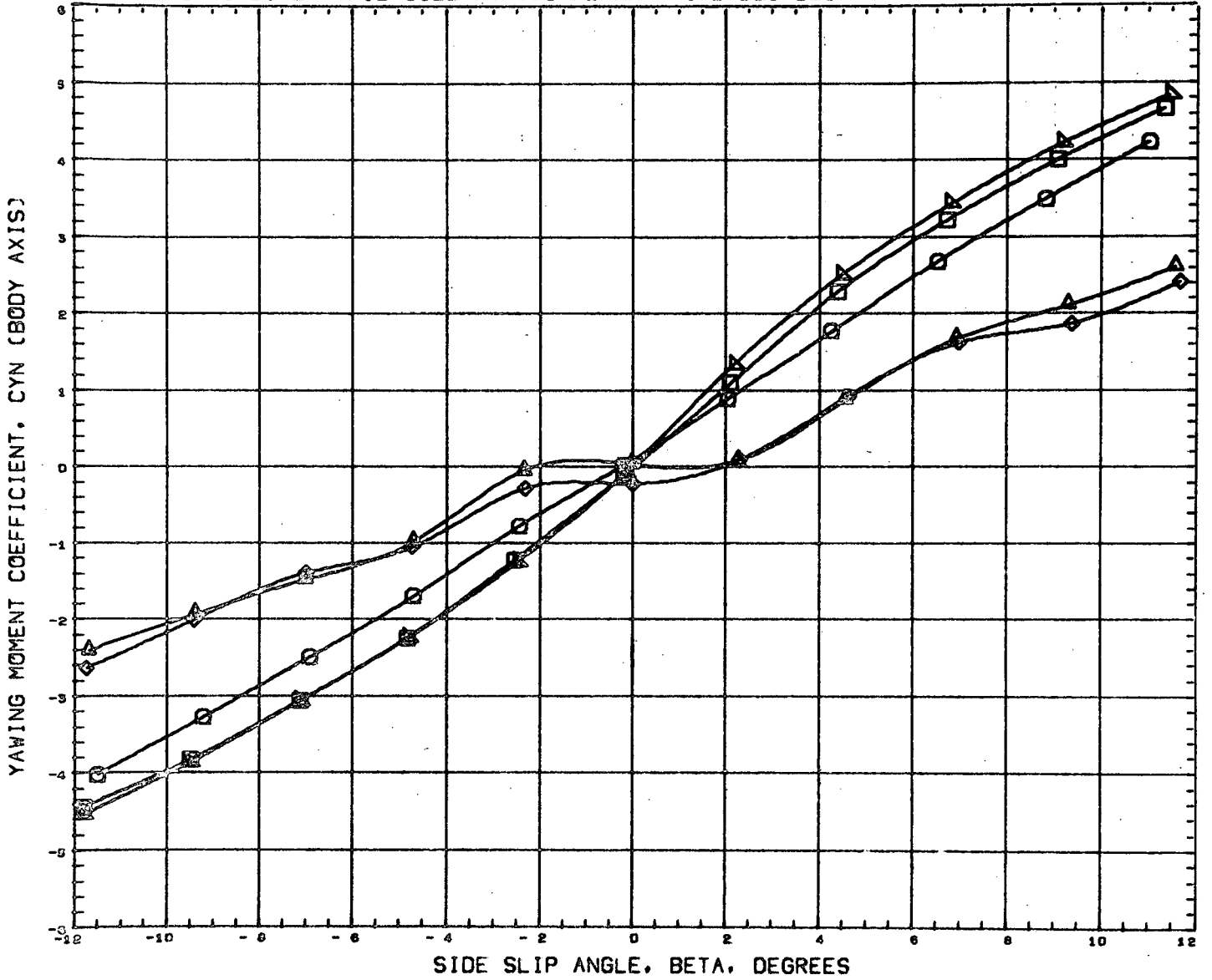
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMCC	LFLAP	RFLAP	REFERENCE INFORMATION	
(H90280)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D03T3	0.000	0.000	0.000	0.000	STEF	0.9350 SQ. IN.
(H90210)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-8.000	0.000	0.000	0.000	LREF	6.2510 INCHES
(H90220)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF	1.0910 INCHES
(H90200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D01T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(A9019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP	0.0000 INCHES
					0.000	ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.202

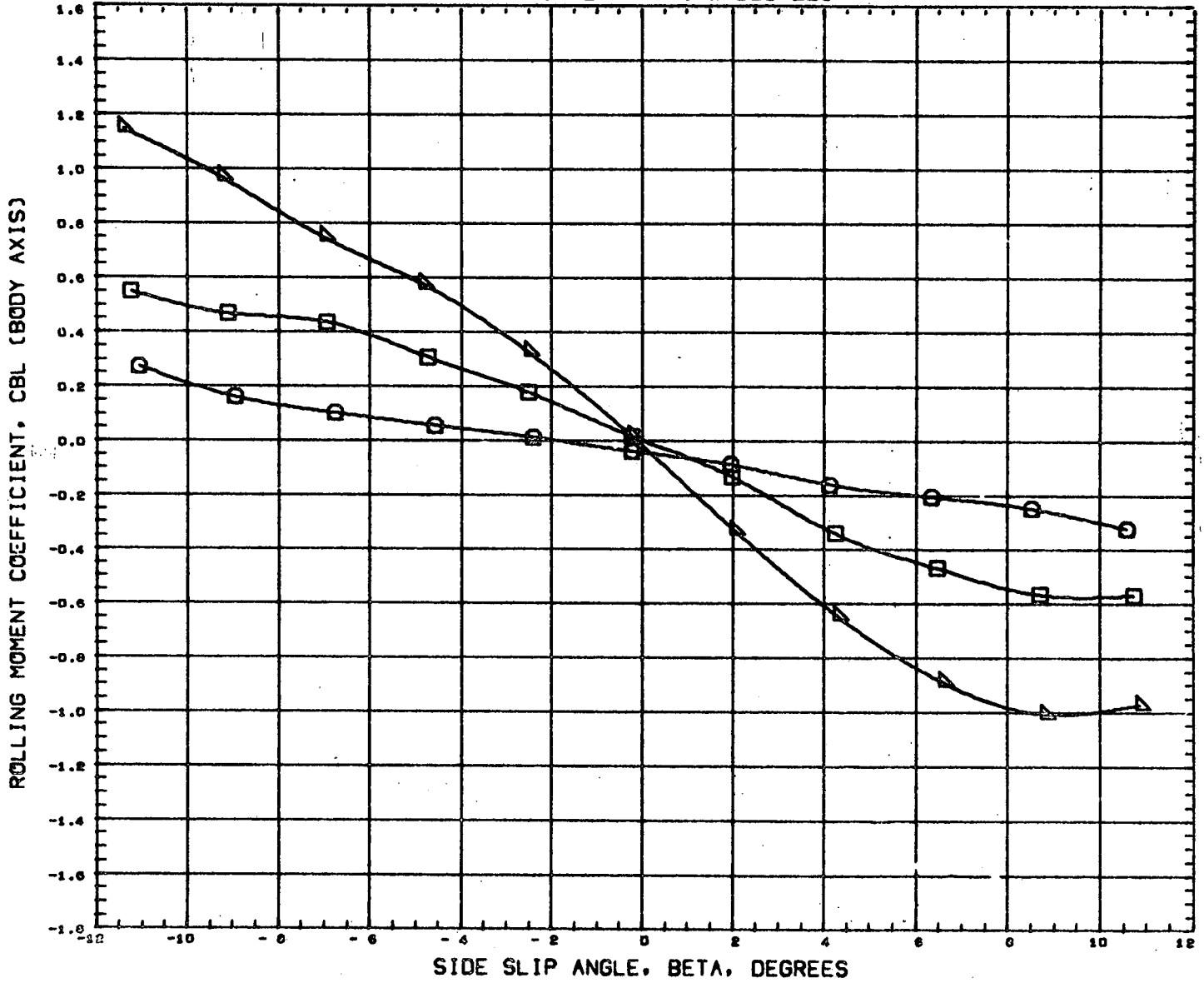
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	LREF 0.9350 80. IN.
(MS0210)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(MS0220)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(AS019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.408

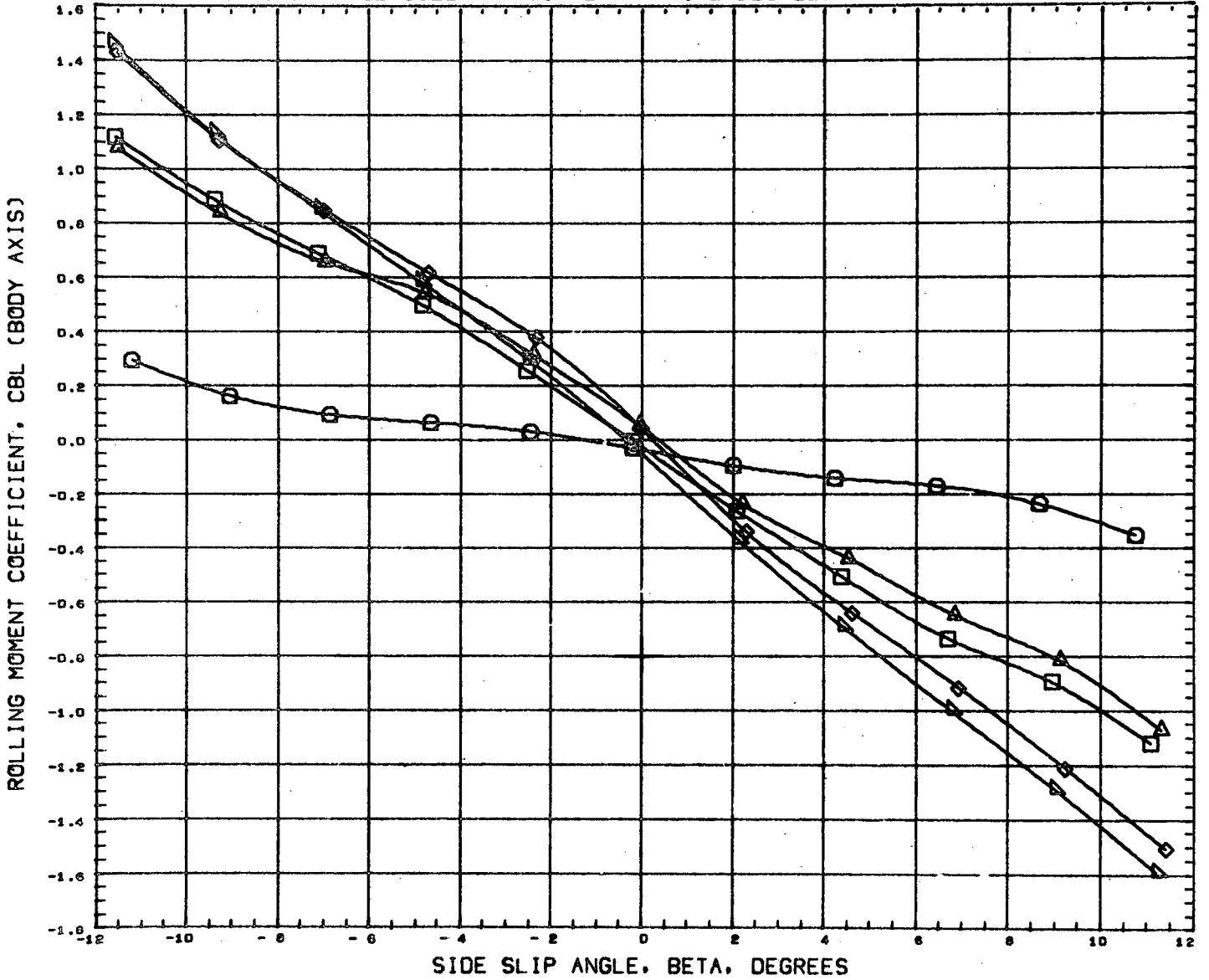
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H50280)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	SRLF 0.9350 80. IN.
(H50210)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(H50220)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(H50200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(A5019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

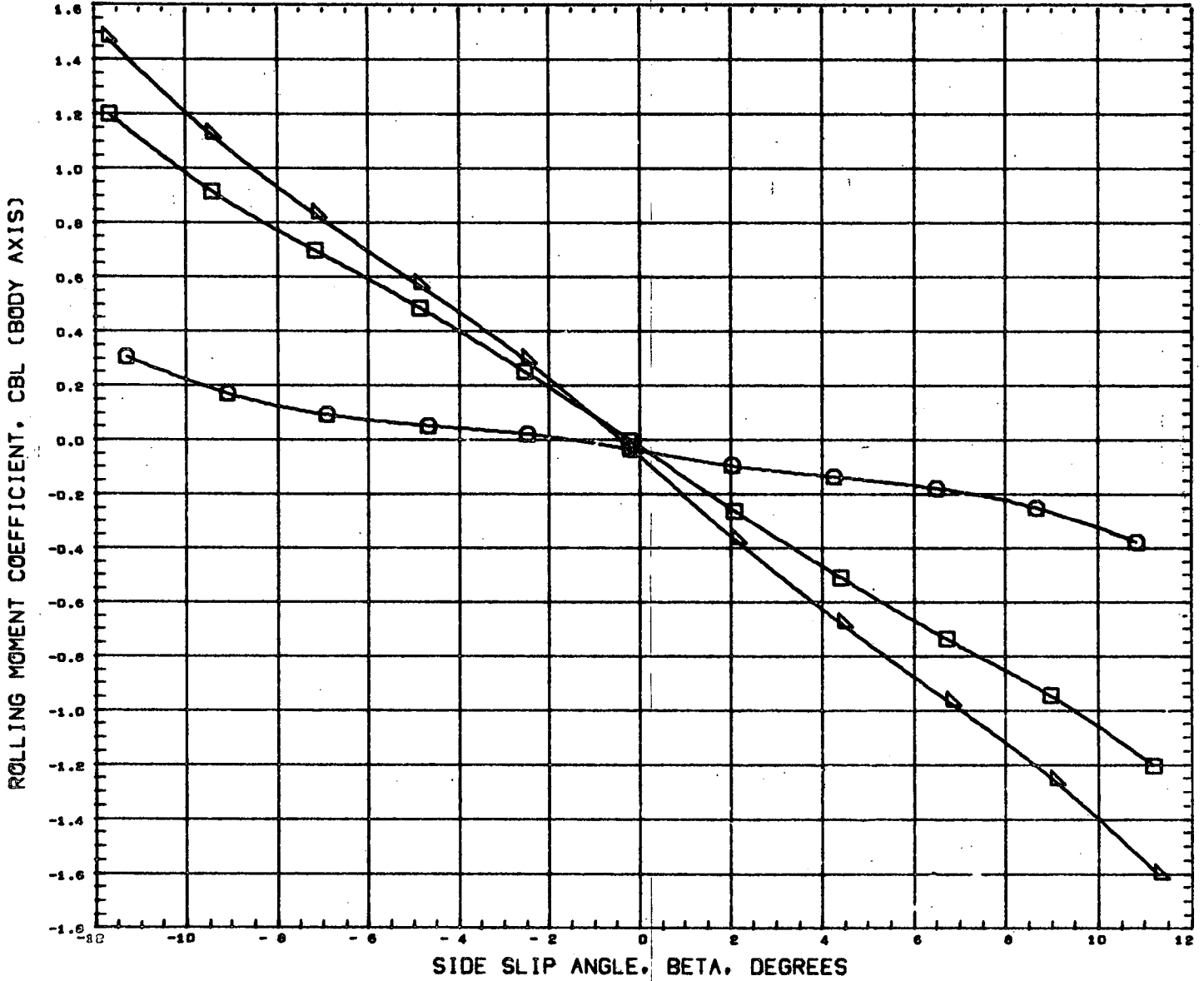
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(NS0200)	NSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(NS0210)	NSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1001T3	-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(NS0220)	NSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(NS0200)	NSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(AS010A)	NSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

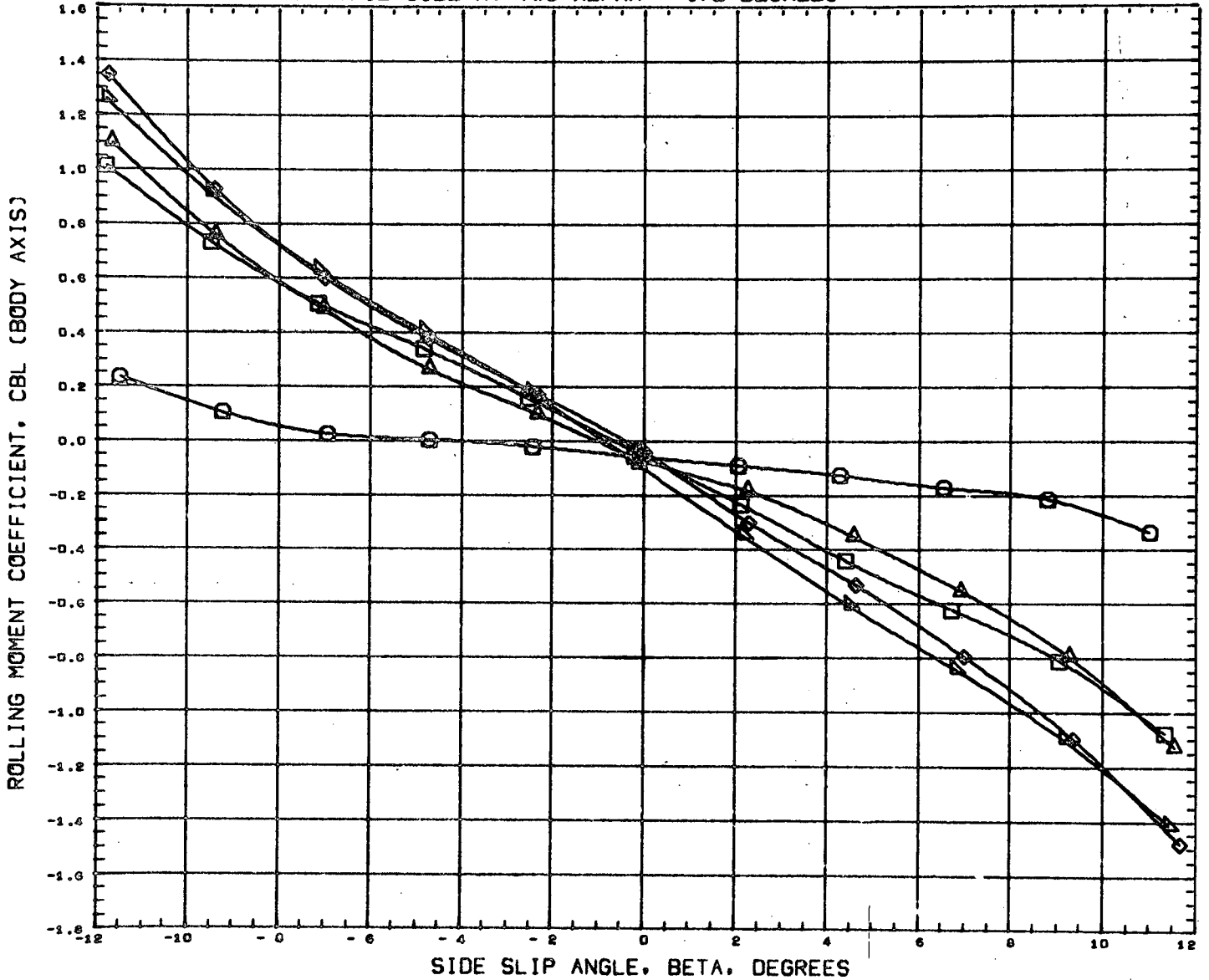
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H50280)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	REF 0.9350 SQ. IN.
(H50210)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(H50220)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(H50200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(A5019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.212

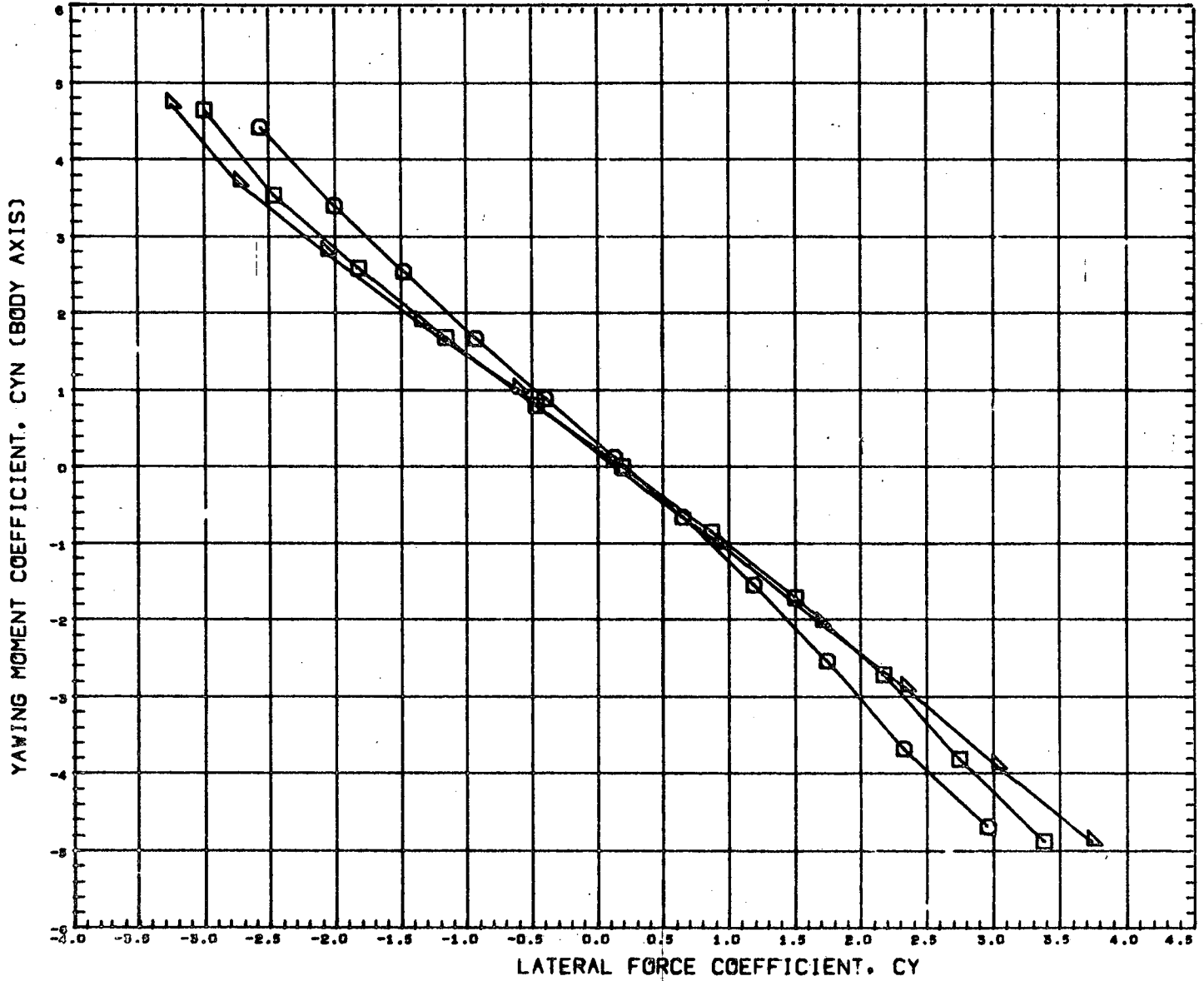
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	JREF 0.9950 80. IN.
(MS0210)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(MS0220)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(AS019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

HACH 1.436

EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES

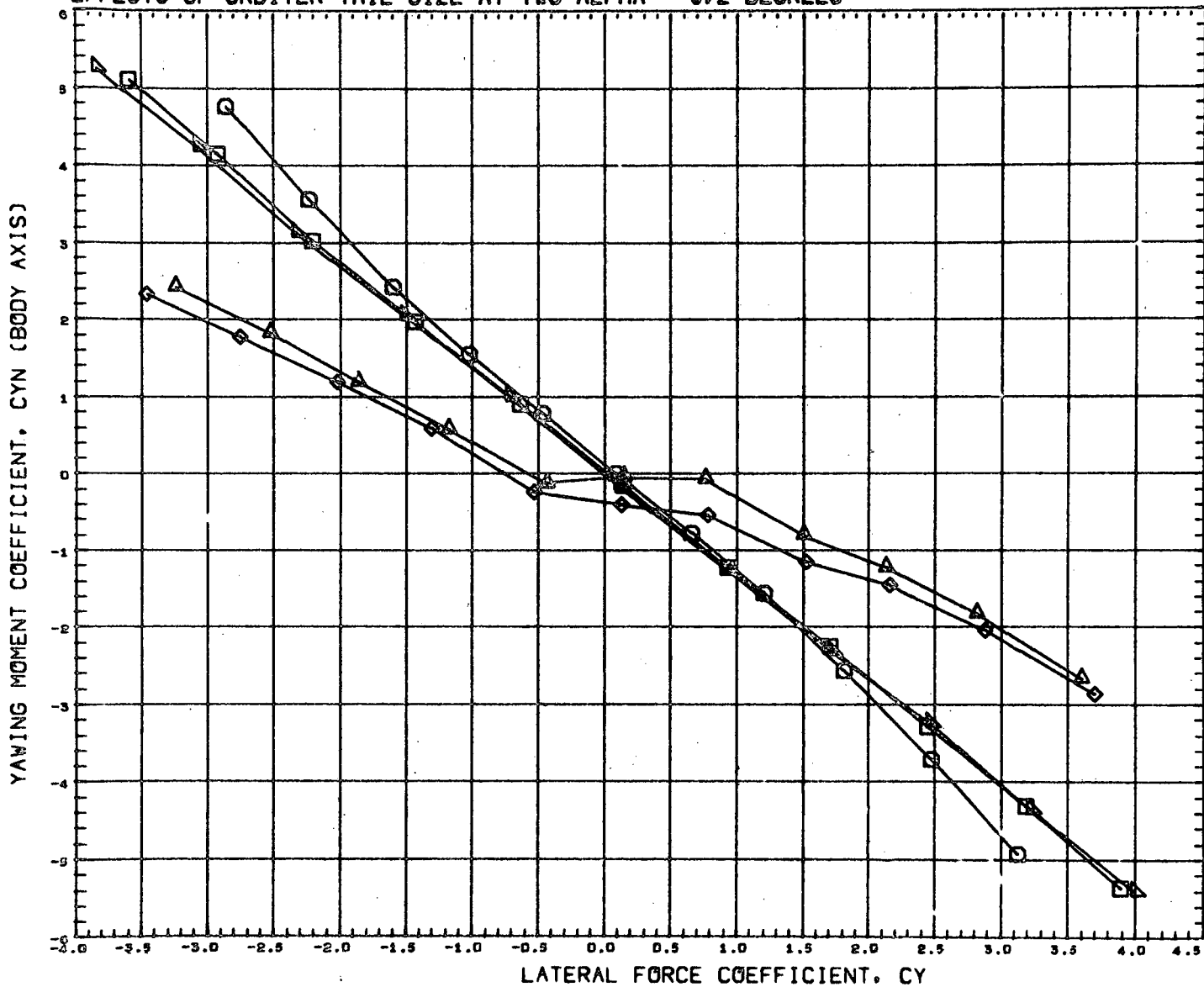


LATERAL FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(MS0210)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(MS0220)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XNRP 3.7920 INCHES
(AS019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YNRP 0.0000 INCHES
						ZNRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.901

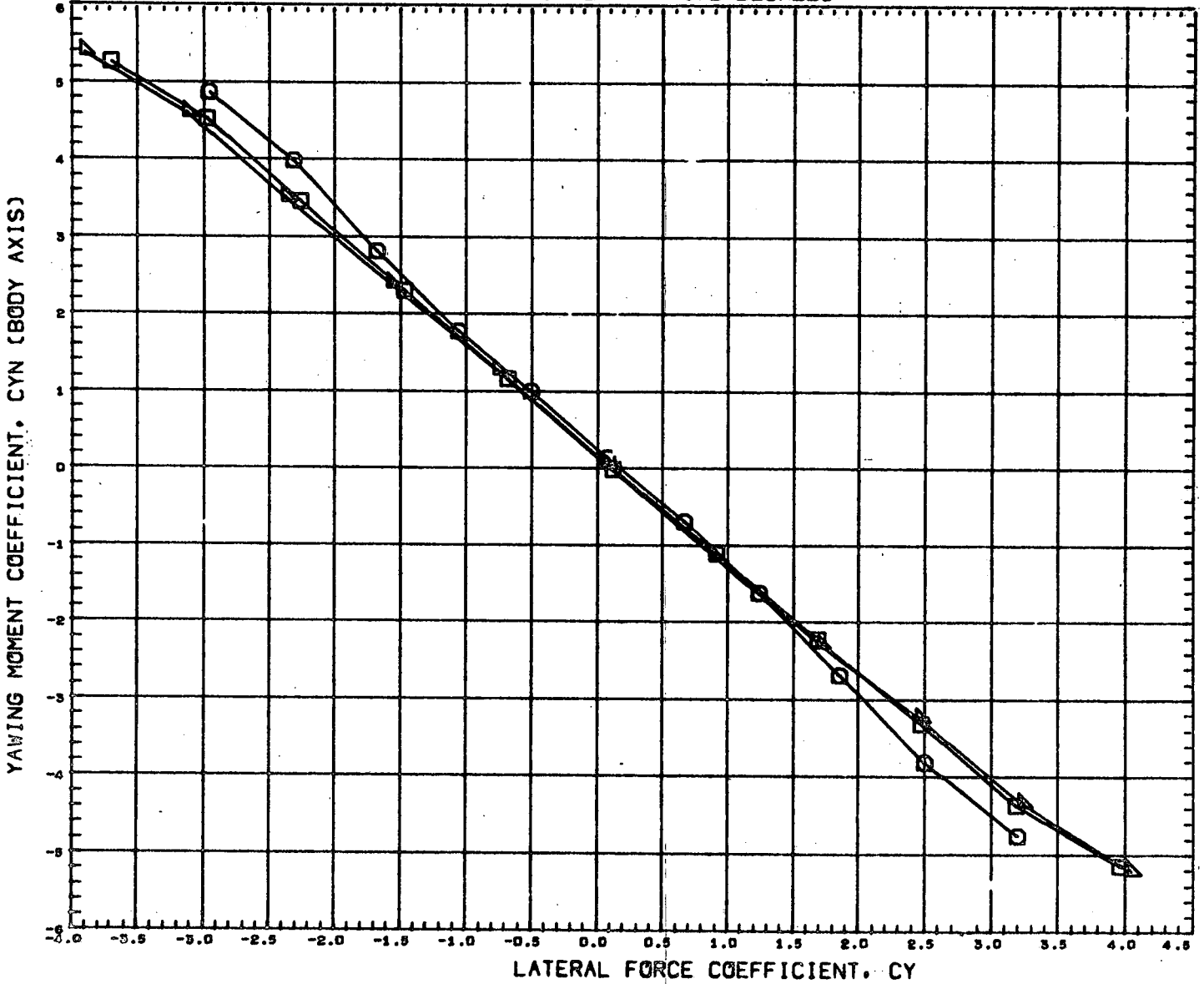
EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MSD260)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(MSD210)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(MSD220)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(MSD200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.660	XMRP 3.7920 INCHES
(ASD19A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES

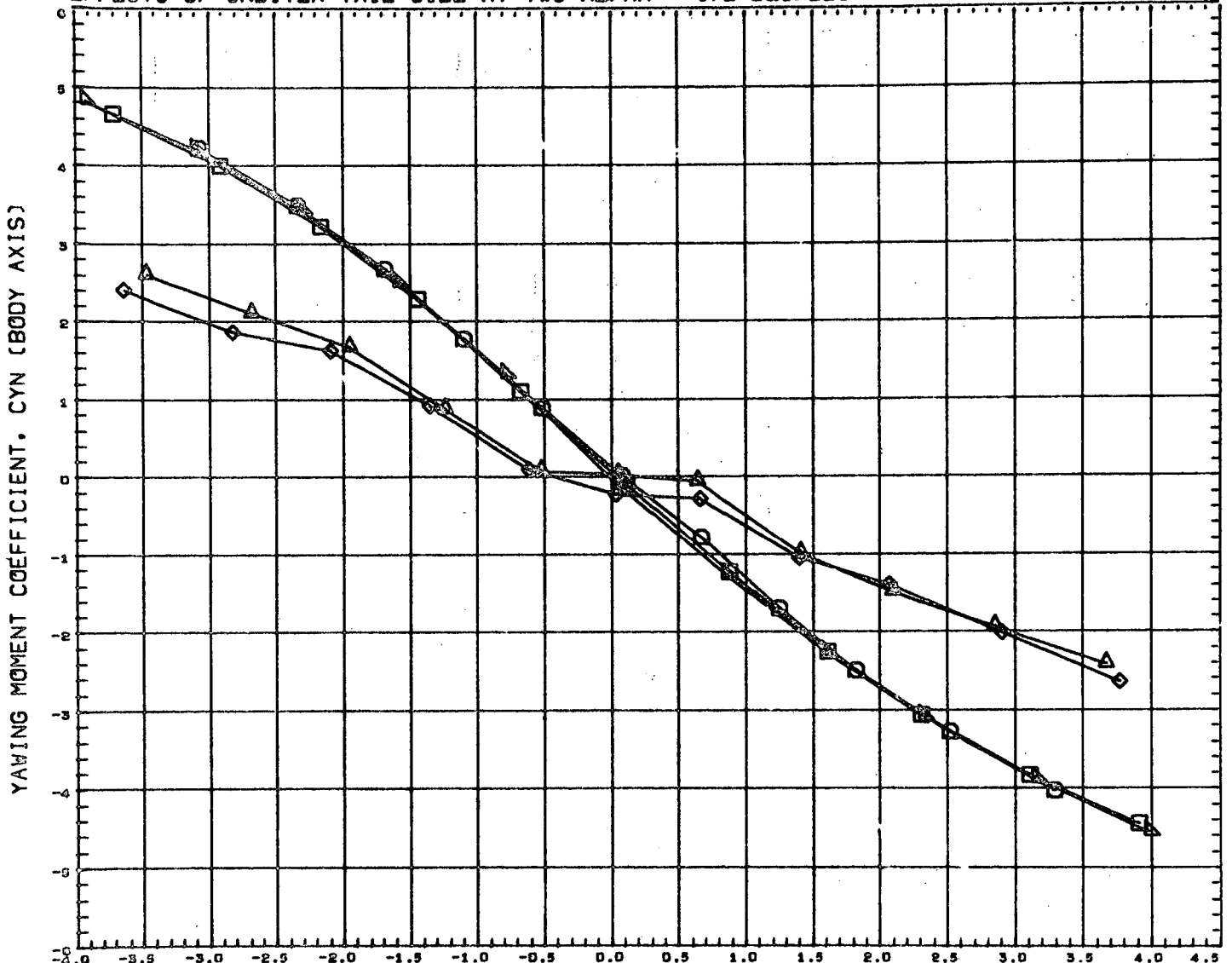


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(MS0280)	MSFC 512 GD/C .003506 BOOSTER/ORB. B34R6T1003T3
(MS0210)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(MS0220)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(MS0200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3
(A5019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3

ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SRFF 0.9350 89. IN.
-6.000	0.000	0.000	0.000	LREF 6.2310 INCHES
-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
0.000	0.000	0.000	0.000	XHRF 3.7920 INCHES
0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
0.000	0.000	0.000	0.000	ZMRP 0.0000 INCHES
				SCALE 0.0034

MACH 1.208

EFFECTS OF ORBITER TAIL SIZE AT TWO ALPHA = 0.2 DEGREES

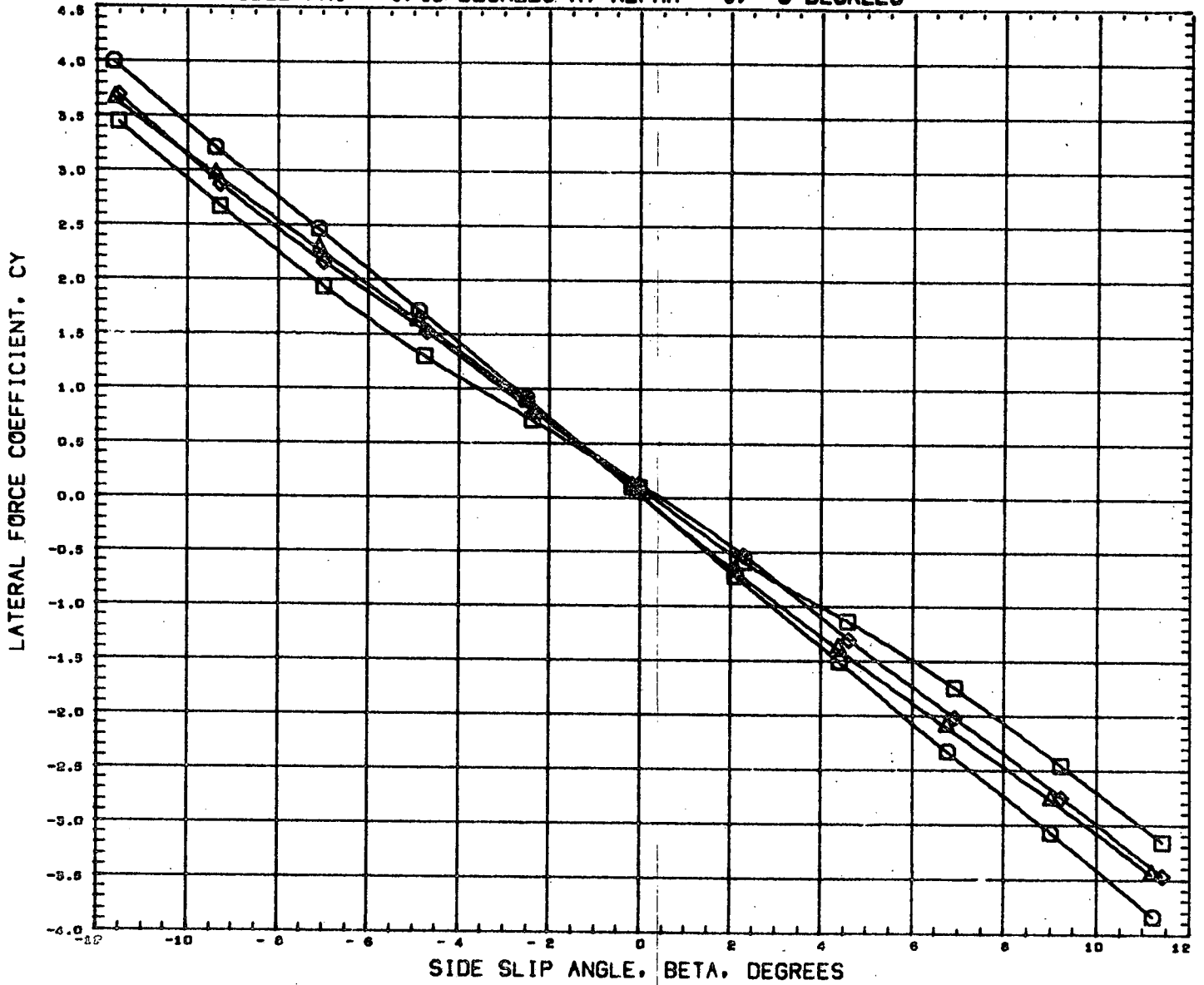


LATERAL FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(H50200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1003T3	0.000	0.000	0.000	0.000	SREF	0.9350 88. IN.
(H50210)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	-6.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(H50220)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF	1.0910 INCHES
(H50200)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1001T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(A5019A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.466

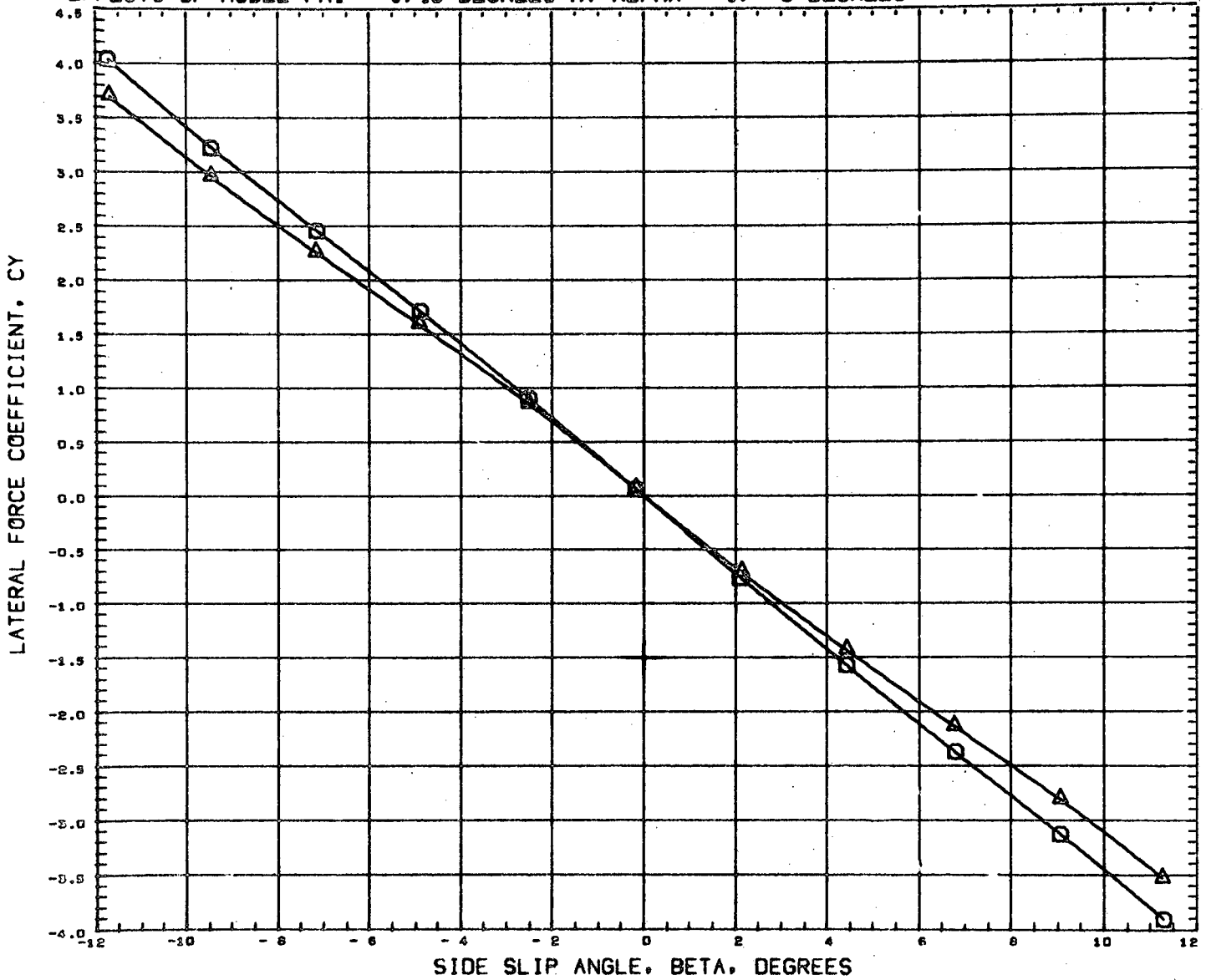
EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(ASD19B)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 80. IN.
(H5D23D)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(H5D22D)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(H5D34D)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	AMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.104

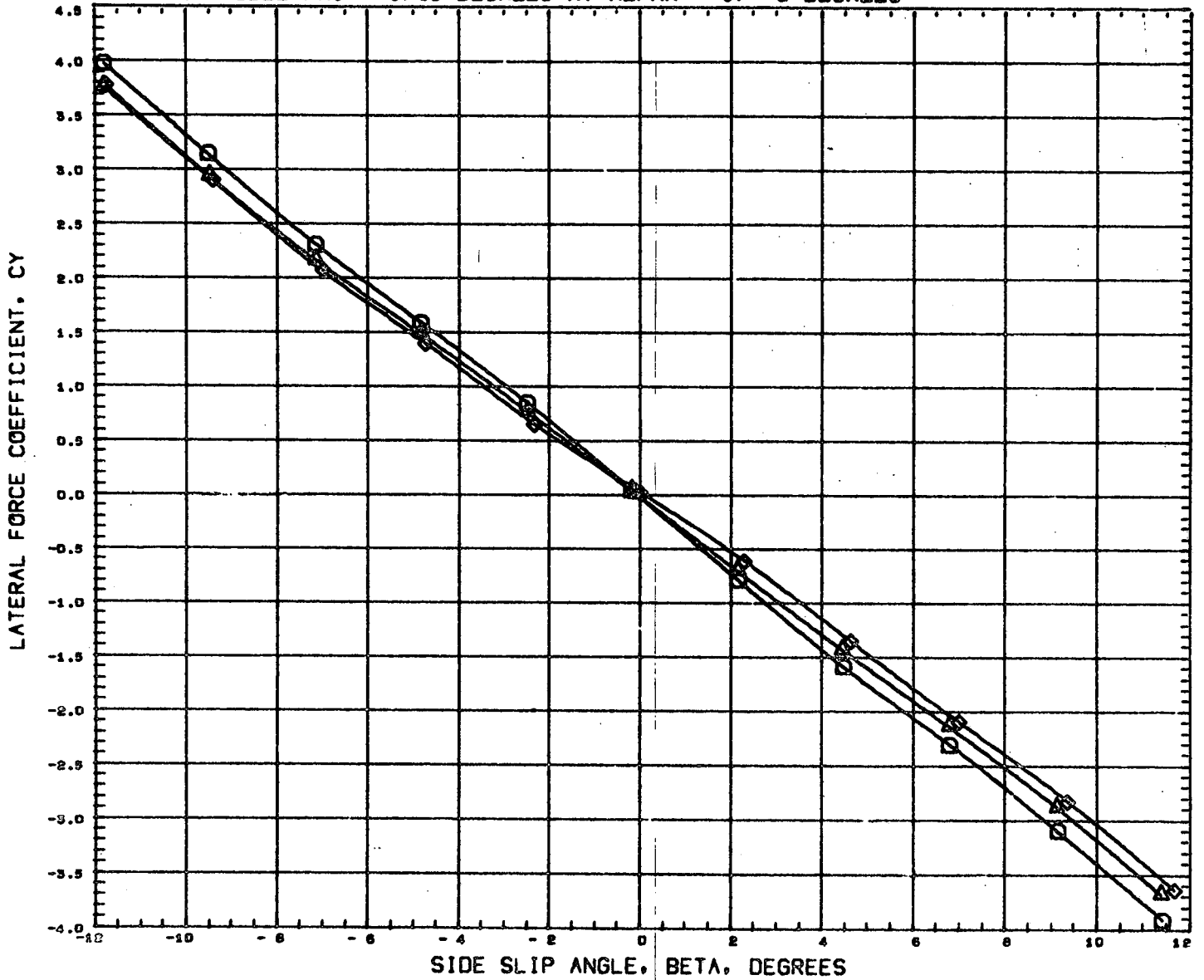
EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHI (DEG)	LFLAP	RFLAP	REFERENCE INFORMATION
(A90190)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	SAEF 0.9350 80. IN.
(H90230)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(H90220)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(H90340)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

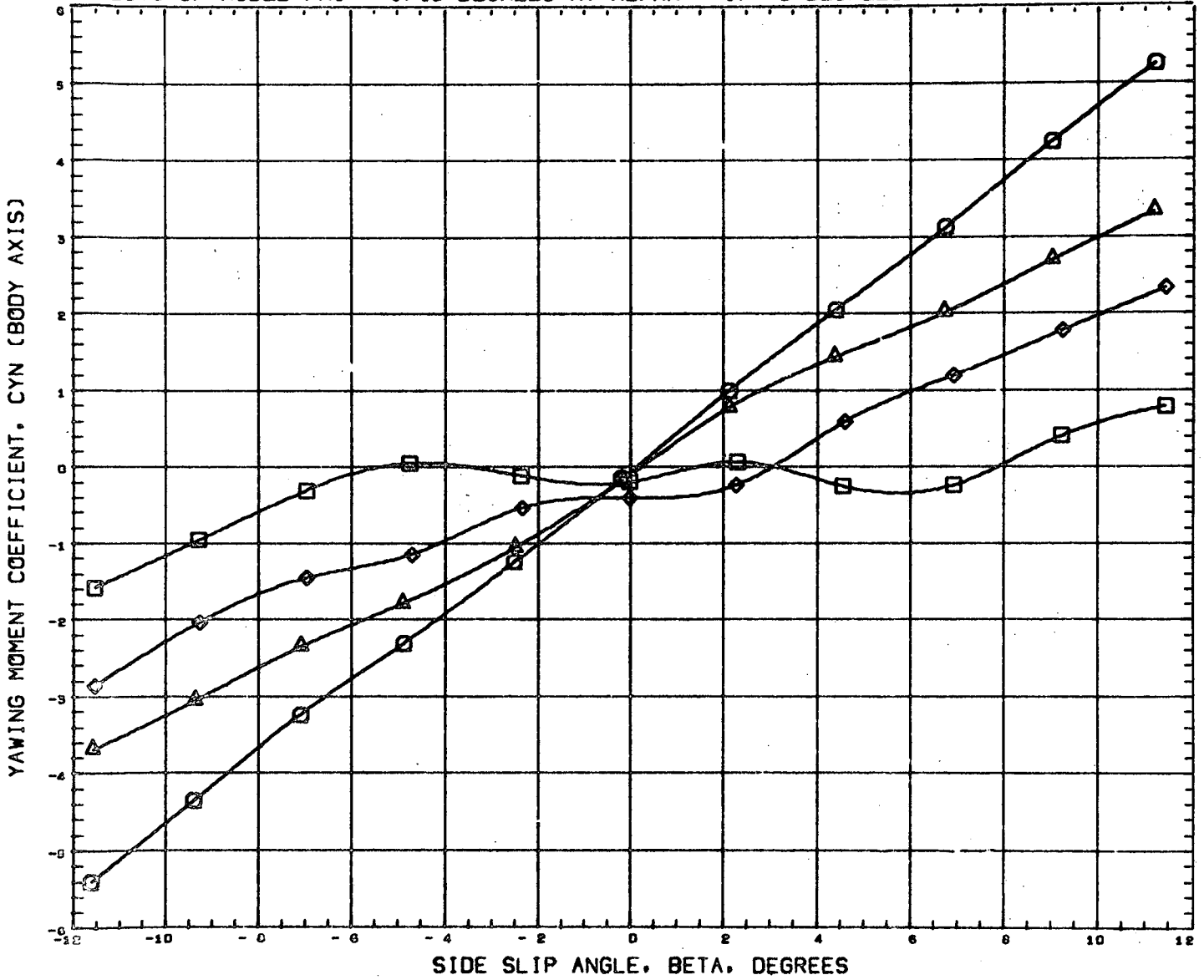
EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHINOC	LFLAP	RFLAP	REFERENCE INFORMATION
(AS019D)	MBFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9380 80. IN.
(MS023D)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2510 INCHE8
(MS022D)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHE8
(MS034D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	XMRP 3.7920 INCHE8
						YMRP 0.0000 INCHE8
						ZMRP 0.0000 INCHE8
						SCALE 0.0034

MACH 1.464

EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES



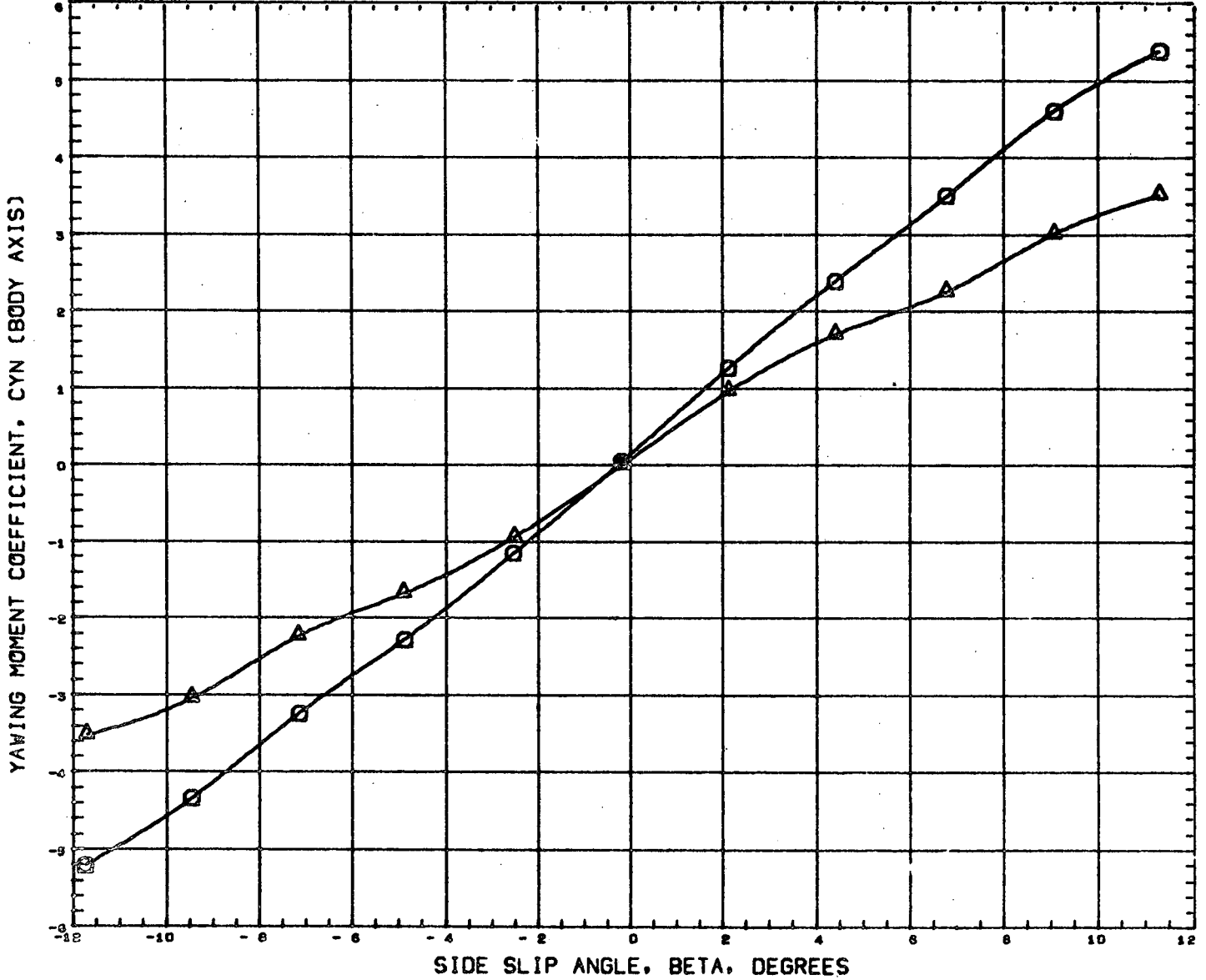
SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(ASD19D) ○	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(MSD23D) △	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(MSD22D) ◇	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(MSD34D) □	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

HACH

1.104

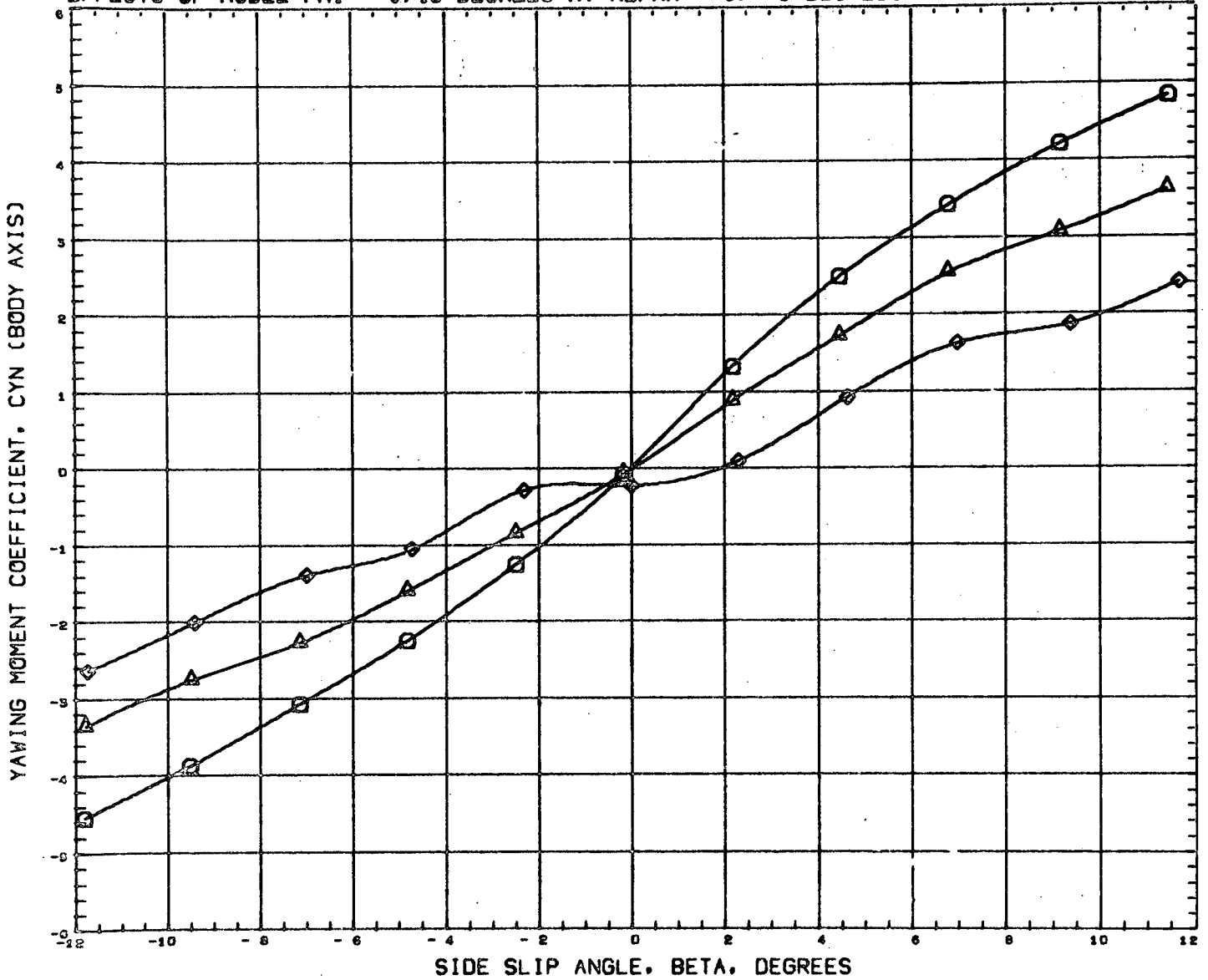
EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(A5019B)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	S:ZF 0.9350 SQ. IN.
(H5025D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(H5022D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(H5034D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

NACH 1.200

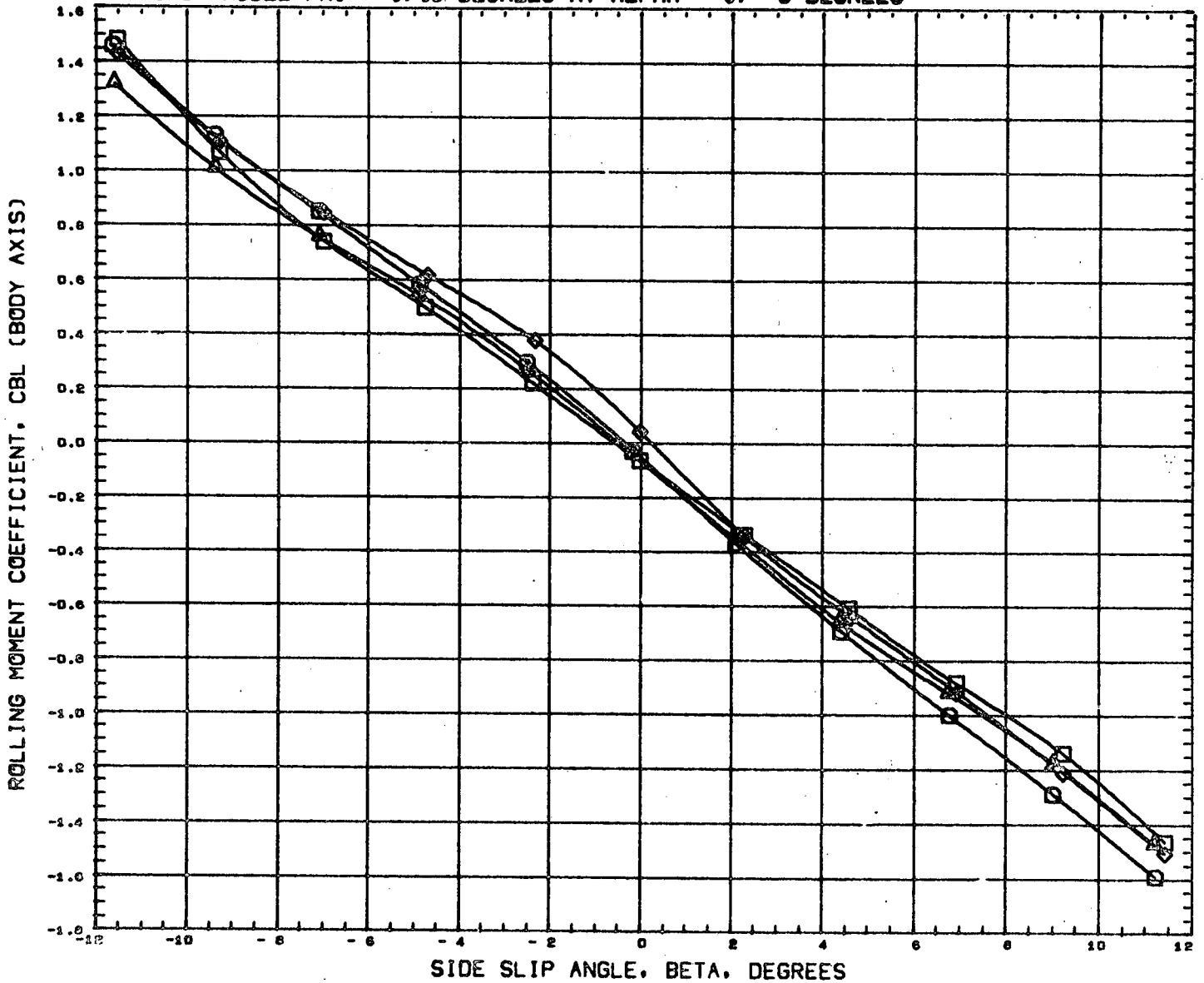
EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0. -6 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(A50190)	○	H5FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 90.IN.
(H50230)	△	H5FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(H50220)	◇	H5FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(H50340)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 1.464

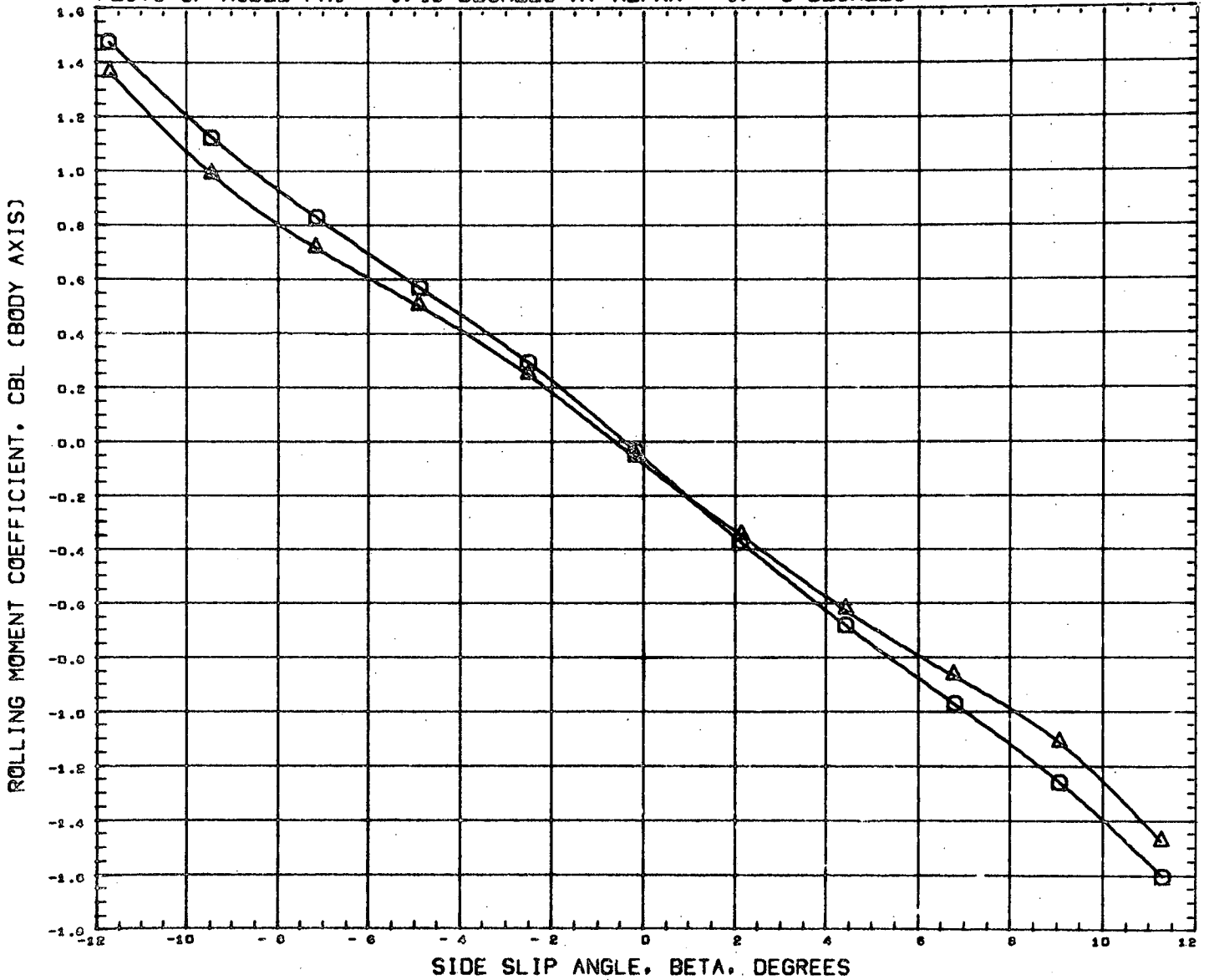
EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(AS0100)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9390 80. IN.
(NS0230)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(NS0220)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(NS0340)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	AMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.106

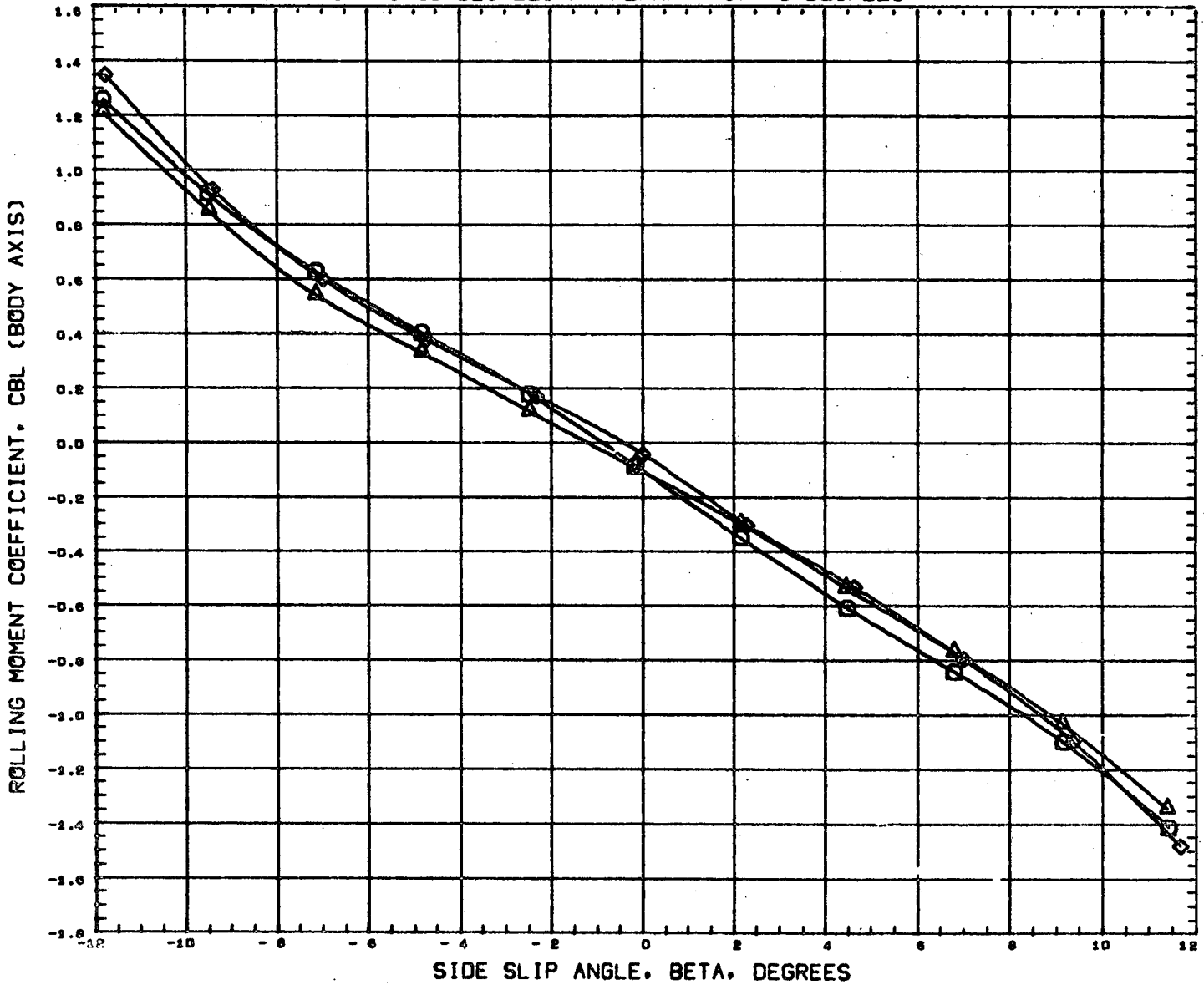
EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHI(MD)	LFLAP	RFLAP	REFERENCE INFORMATION
(A90100)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF 0.9350 SQ. IN.
(M90230)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(M90220)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(M90340)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.200

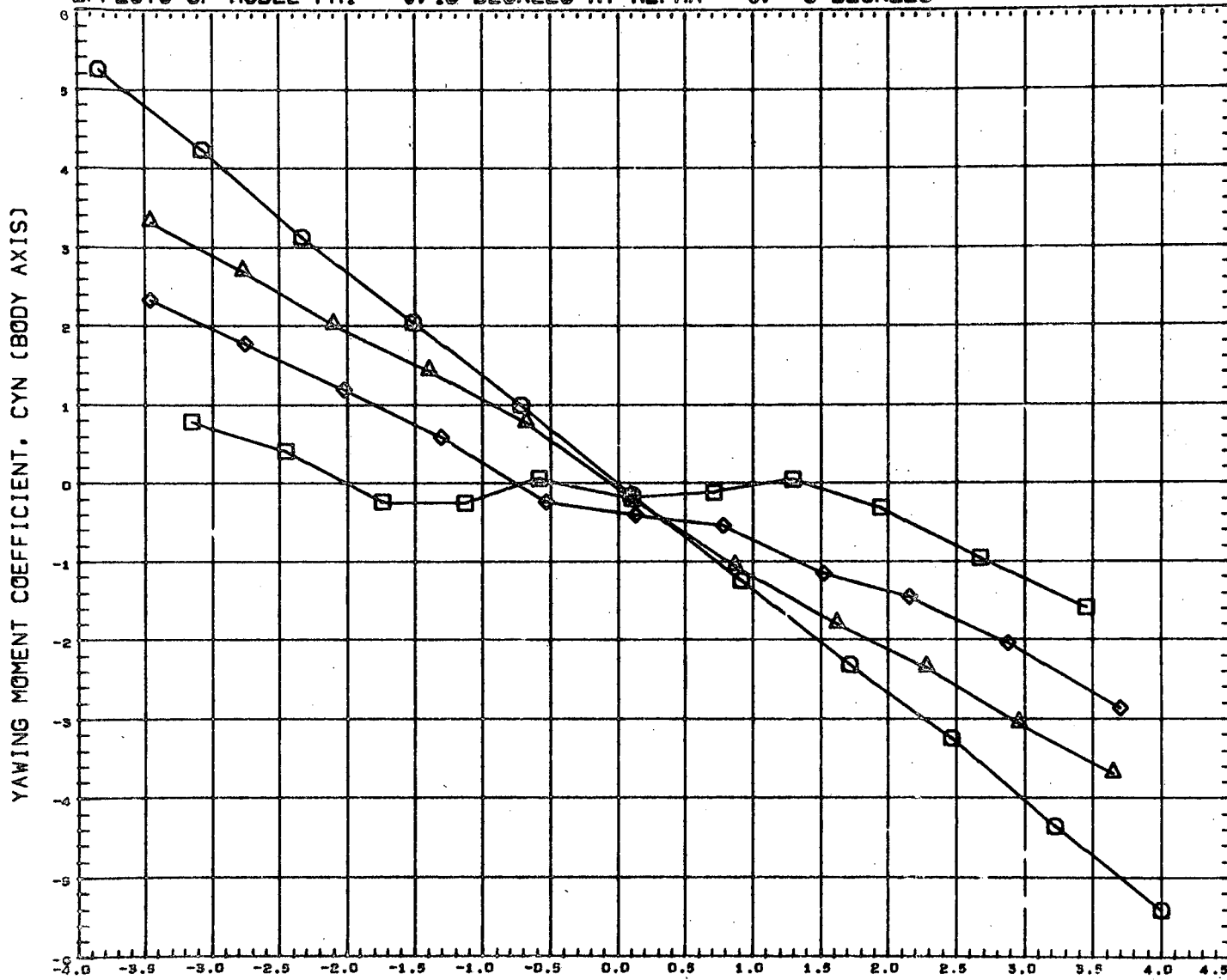
EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHI MOD	LFLAP	RFLAP	REFERENCE INFORMATION
(A5019B)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SR_7 0.9350 SQ. IN.
(H50230)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 0.2310 INCHES
(H50220)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0010 INCHES
(H50340)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	XWRP 3.7920 INCHES
						YWRP 0.0000 INCHES
						ZWRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.464

EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES

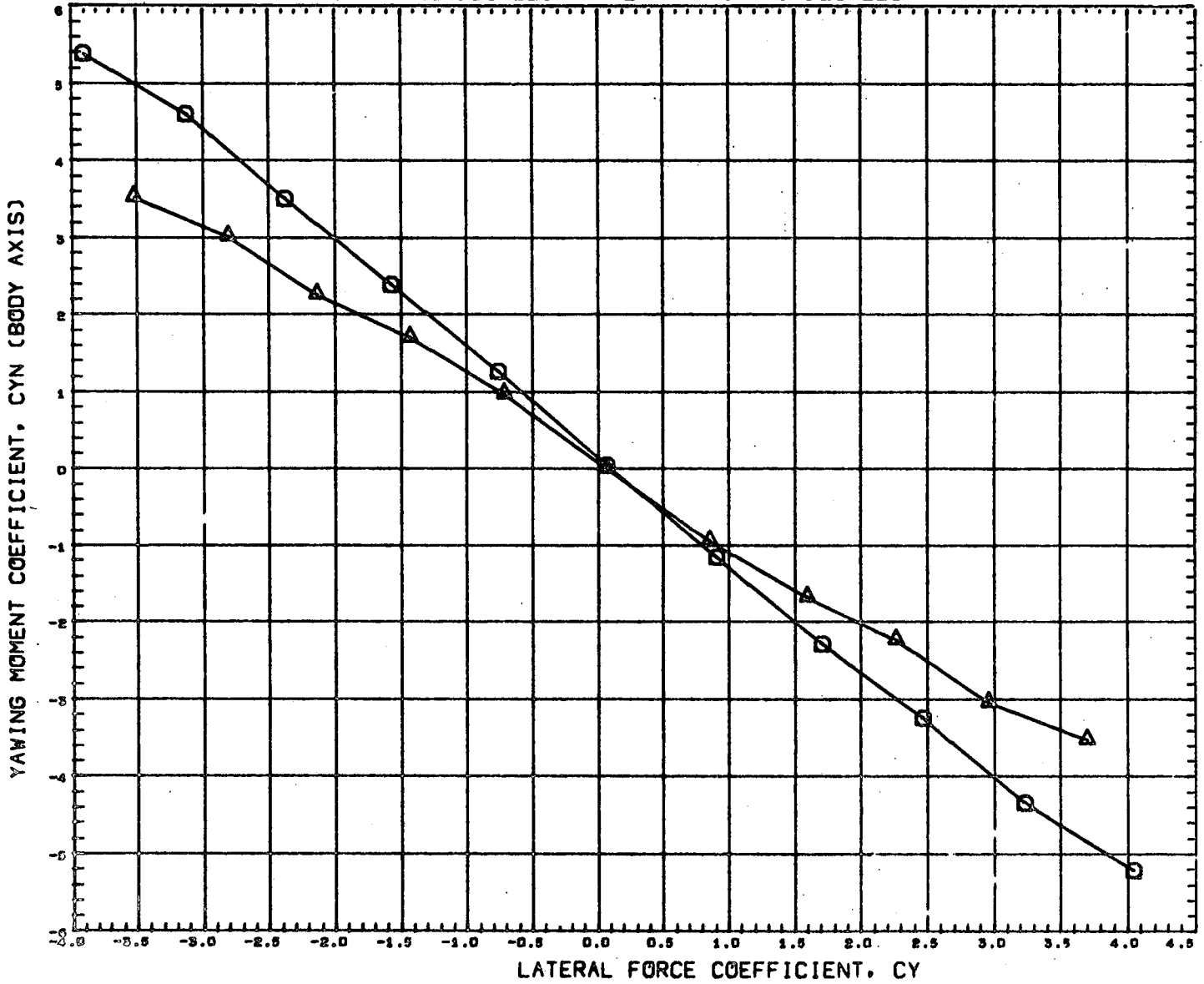


LATERAL FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(A50198)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SRZF 0.9350 89. IN.
(H50230)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(H50220)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(H50340)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	XNRF 3.7920 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.104

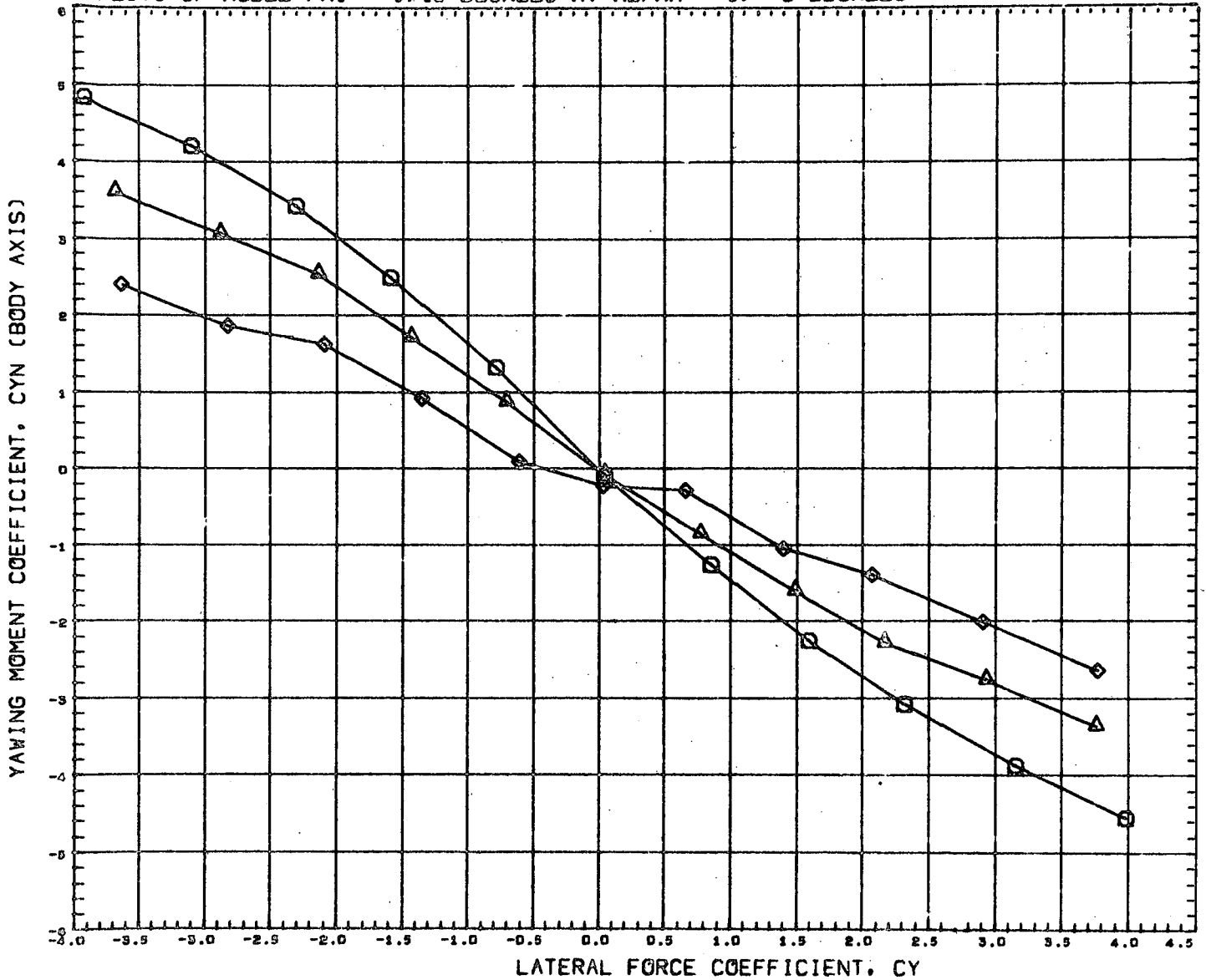
EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(AS0199)	MSFC 512 GD/C .003500 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	SAEF	0.9350 80. IN.
(HS0230)	MSFC 512 GD/C .003500 BOOSTER/ORB. B34R6T1D02T3	0.000	45.000	0.000	0.000	LREF	6.2310 INCHES
(HS0220)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF	1.0910 INCHES
(HS0340)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.801

EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES

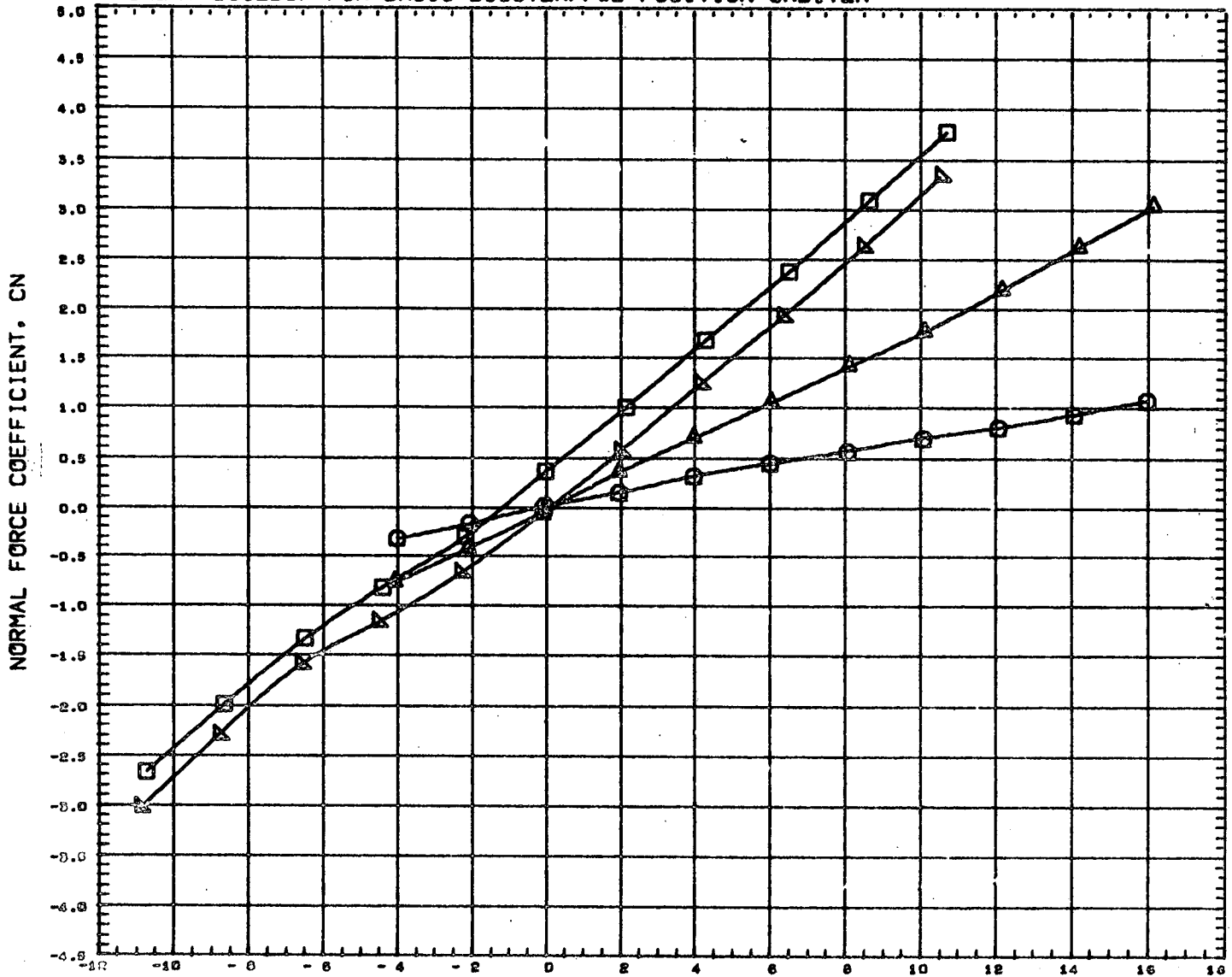


LATERAL FORCE COEFFICIENT, CY

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(AS019D)	○	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	STEF 0.9350 SQ. IN.
(MS0230)	△	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(MS0220)	◇	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(MS0340)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 1.464

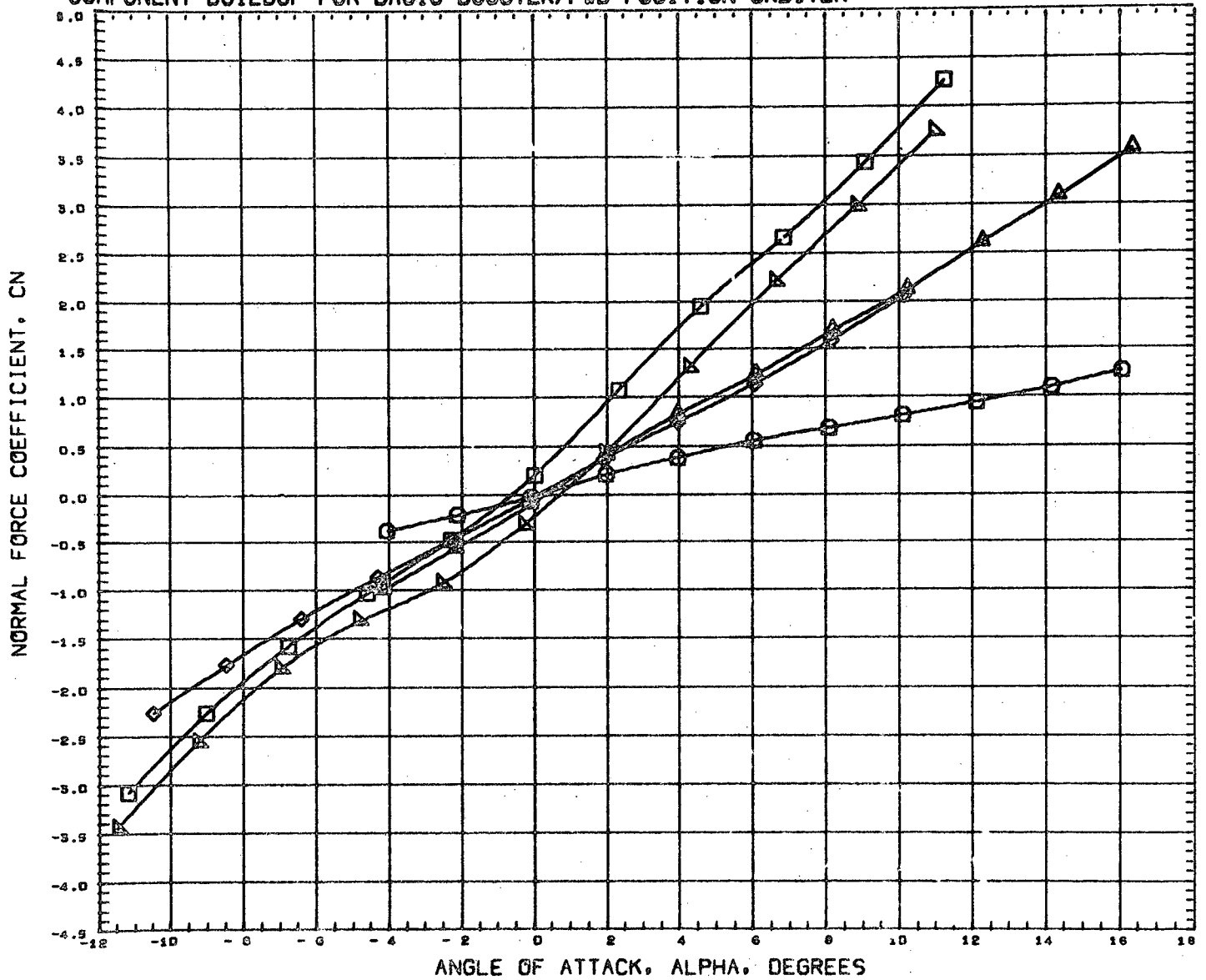
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000			LREF 6.2310 INCHES
(D50320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50350)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(D50370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.60'S

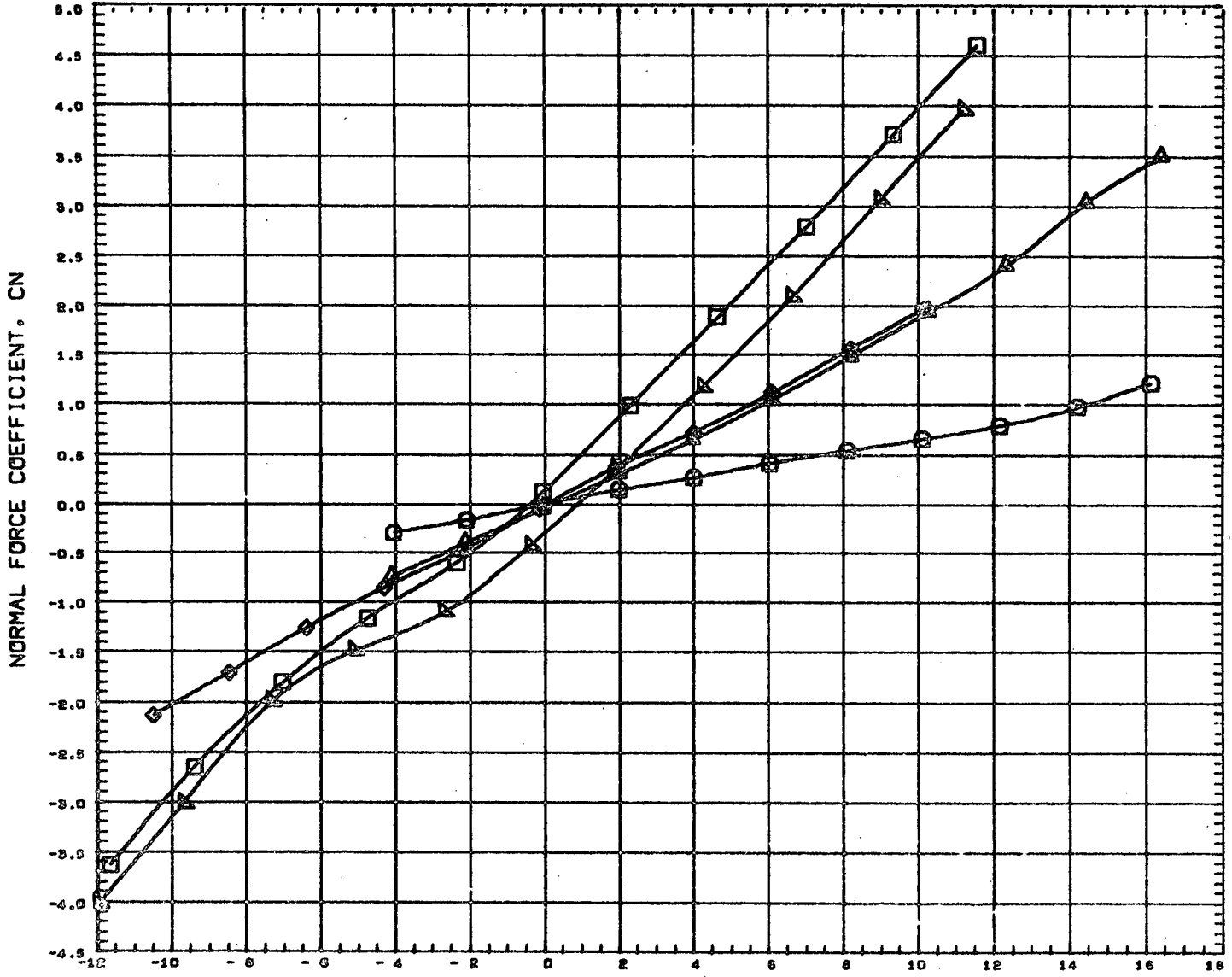
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 GD/C .003566 BOOSTER B34R6	0.000	45.000			LREF 0.9350 SQ. IN.
(E9001D)	MSFC 512 GD/C .003566 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	MSFC 512 GD/C .003566 BOOSTER B34R6T1O73	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5035D)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1O02T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5037D)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1O02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.910

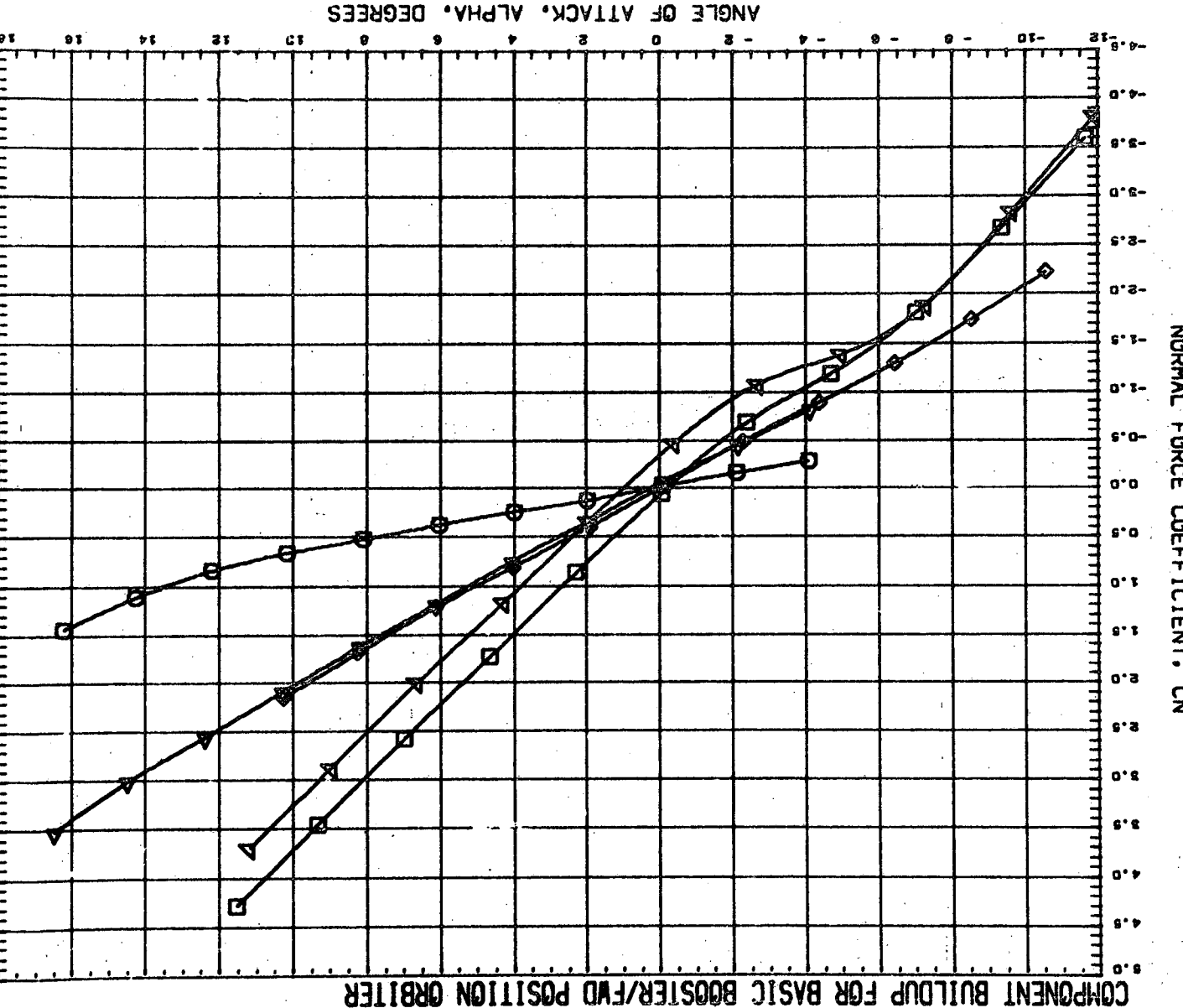
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	H8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SRLE 0.9350 SQ. IN.
(E90010)	H8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90320)	H8FC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90350)	H8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D90370)	H8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	SCALE	INCHES
(E5010)	MSFC 512 GD/C, .003366 BOOSTER	0.000	45.000	0.000	0.000	STF	0.9350
(E5011)	MSFC 512 GD/C, .003366 BOOSTER	0.000	45.000	0.000	0.000	LREF	6.2310
(E5012)	MSFC 512 GD/C, .003366 BOOSTER	0.000	45.000	0.000	0.000	BREF	1.0910
(E5013)	MSFC 512 GD/C, .003366 BOOSTER	0.000	45.000	0.000	0.000	YMRF	3.7920
(E5014)	MSFC 512 GD/C, .003366 BOOSTER	0.000	45.000	0.000	0.000	YMRF	0.0000
(E5015)	MSFC 512 GD/C, .003366 BOOSTER	0.000	45.000	0.000	0.000	ZMRF	0.0000
(E5016)	MSFC 512 GD/C, .003366 BOOSTER	0.000	45.000	0.000	0.000	ZMRF	0.0034



NORMAL FORCE COEFFICIENT, CN

ANGLE OF ATTACK, ALPHA, DEGREES

MACH 1.453

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

BETA

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RFLAP

SCALE

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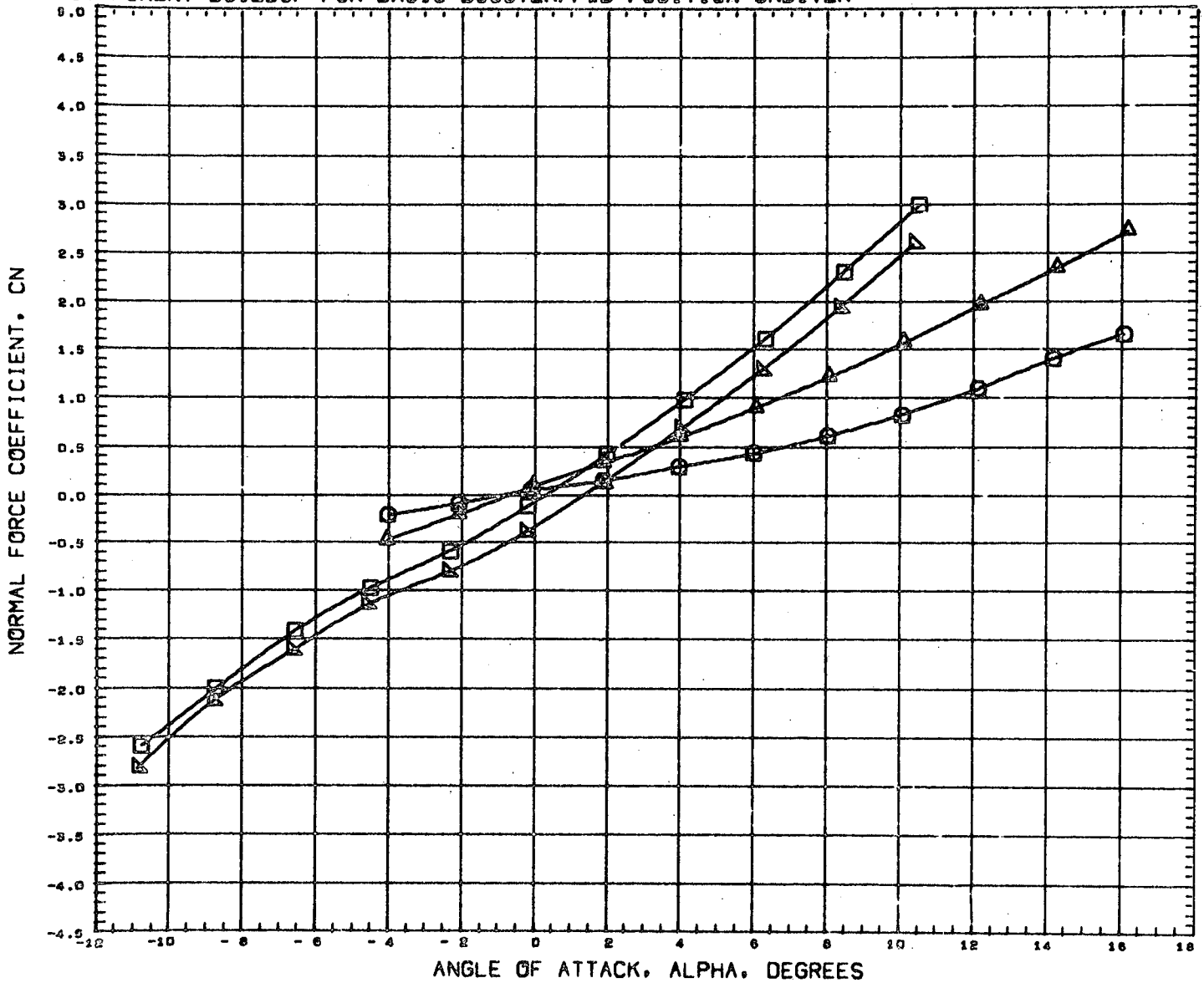
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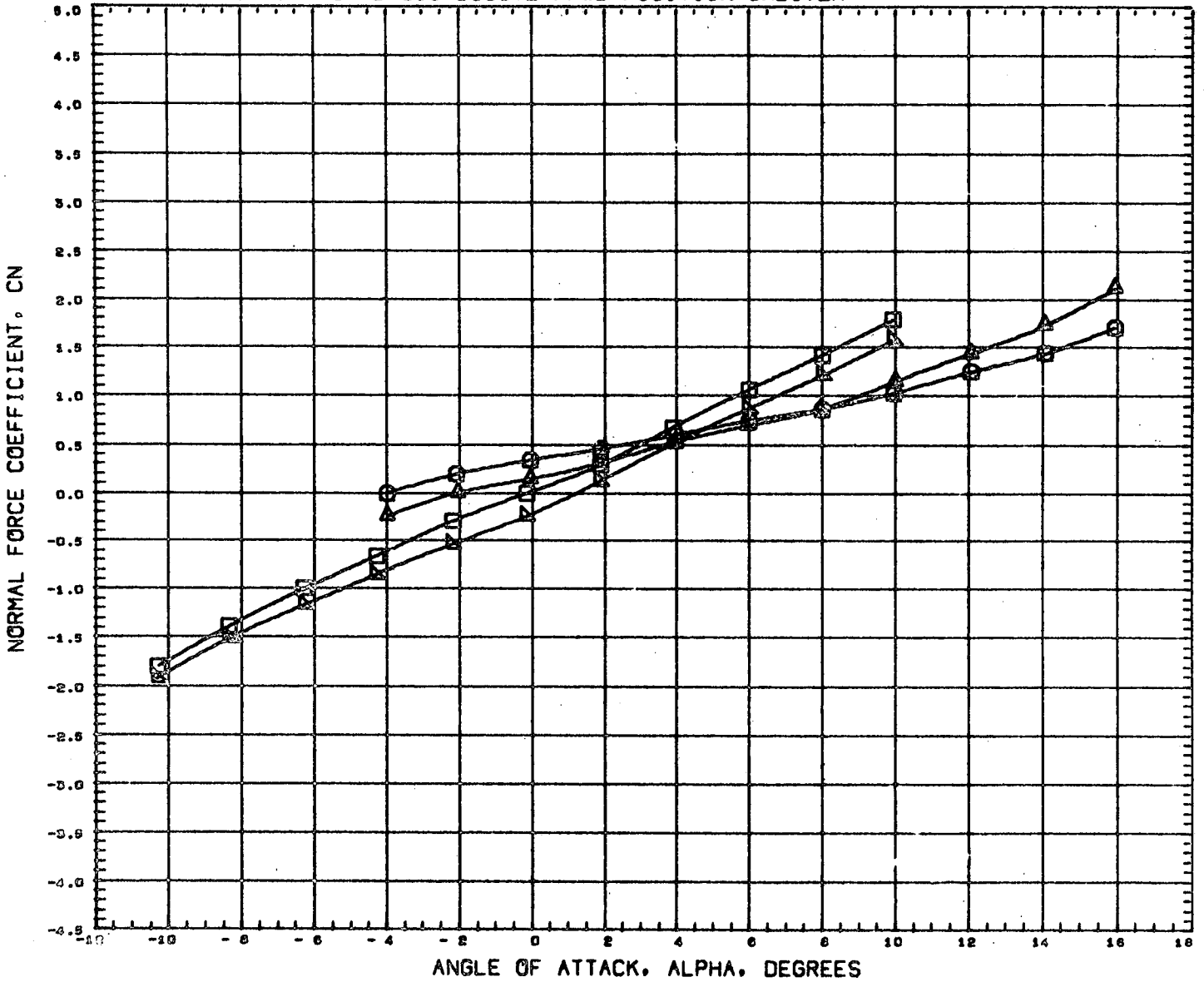
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(ESD11D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SRLP 0.9350 SQ. IN.
(ESD01D)	MSFC 512 GD/C .003366 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5035D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5037D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

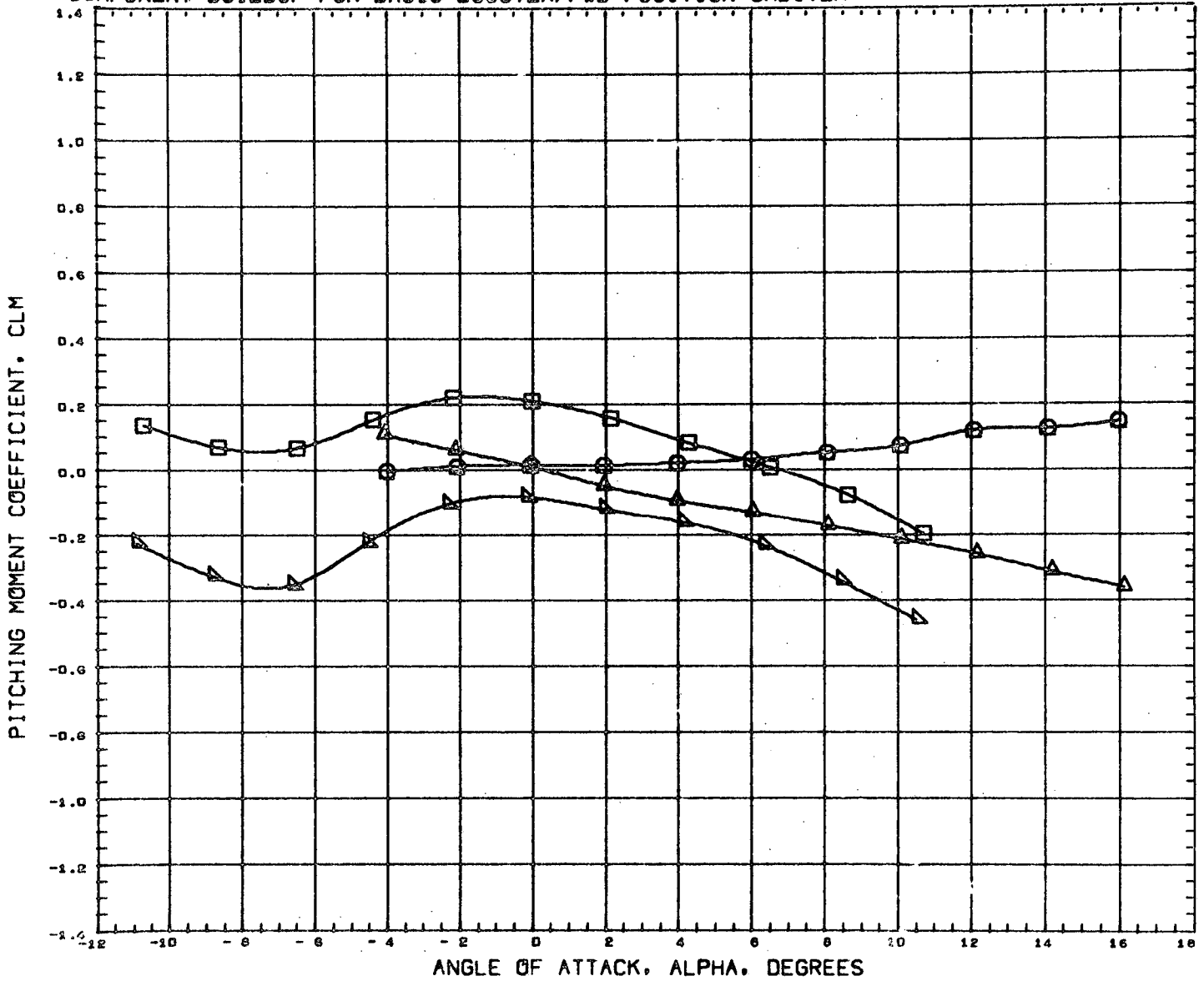
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PNIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E9001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T1L	0.000	0.000			LREF 6.2310 INCHES
(D9032D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D9033D)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1002T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(D9037D)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.930

COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER

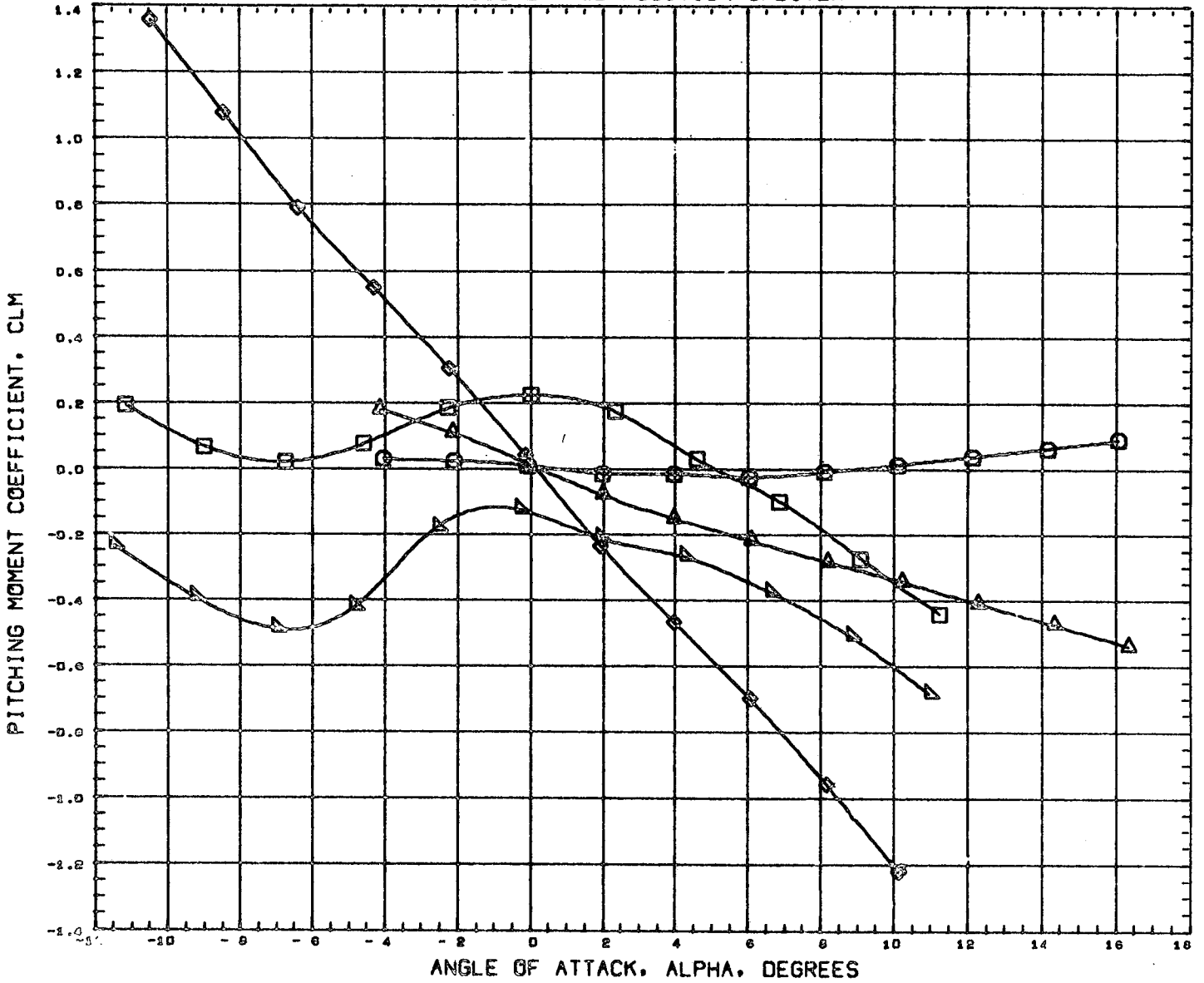


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E90010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90520)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90350)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D90370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 0.603

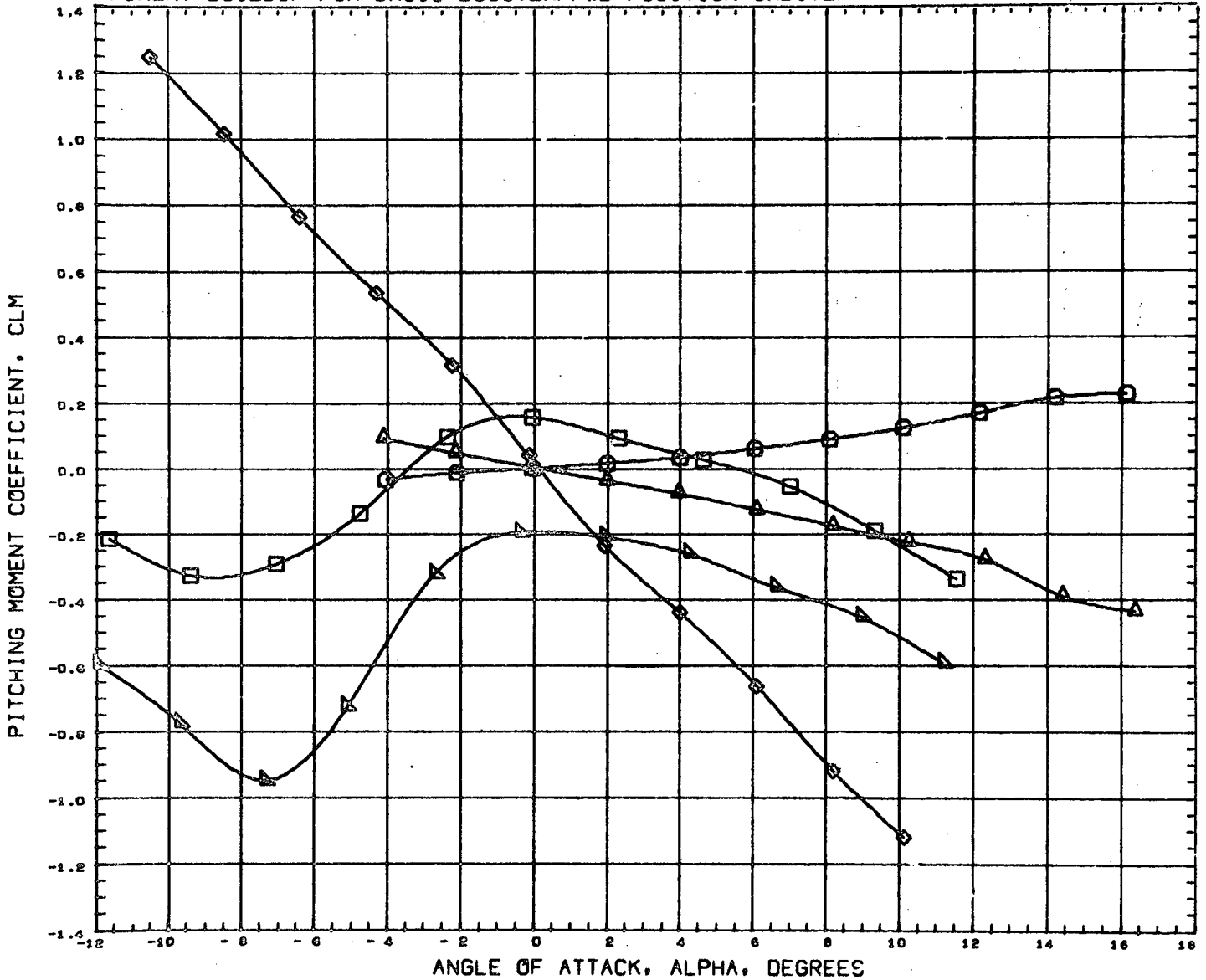
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003360 BOOSTER B34R6	0.000	45.000	0.000	0.000	JREF 0.9350 SQ. IN.
(E5001D)	MSFC 512 GD/C .003360 BOOSTER B34R6T1L	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	MSFC 512 GD/C .003360 BOOSTER B34R6T1O73	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5035D)	MSFC 512 GD/C .003360 BOOSTER/ORD. B34R6T1DO2T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5037D)	MSFC 512 GD/C .003360 BOOSTER/ORD. B34R6T1DO2T3	0.000	0.000	0.000	0.000	ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.910

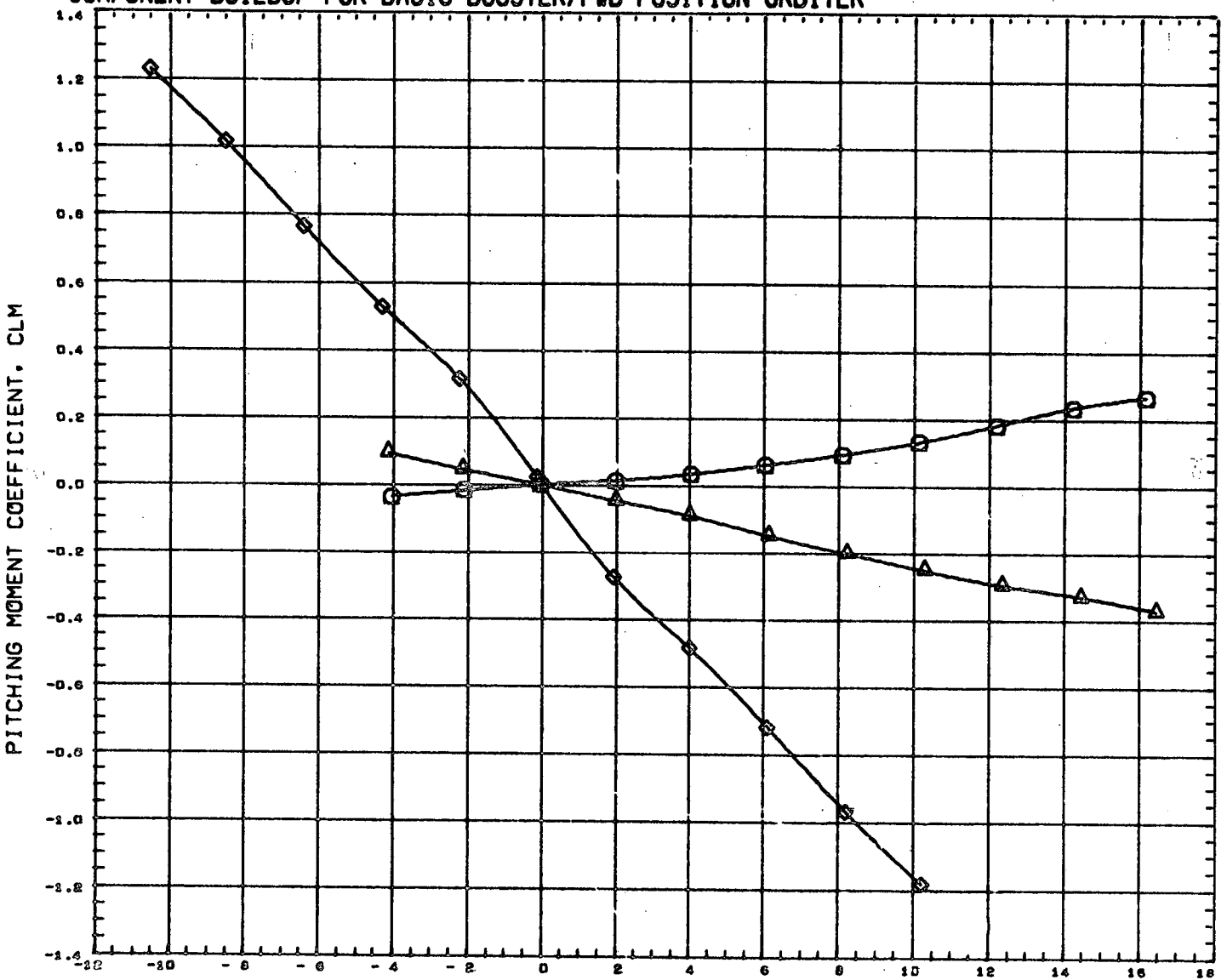
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ.IN.
(E5001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	MSFC 512 GD/C .003366 BOOSTER B34R6T1D2T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5039D)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1D02T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5057D)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

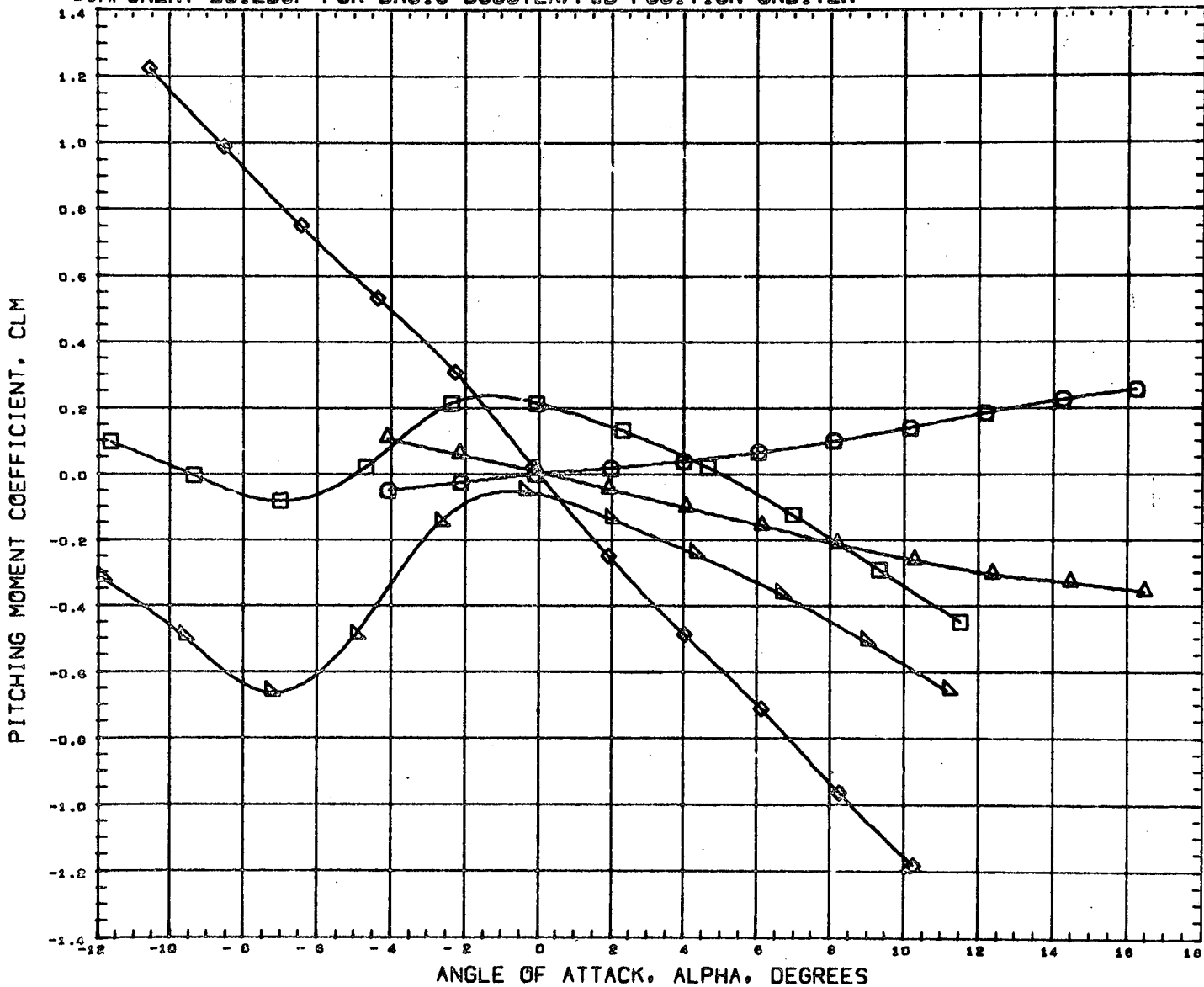
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50350)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50370)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
					0.000	ZMRP 0.0000 INCHES
						SCALE 0.0034

HACH 1.201

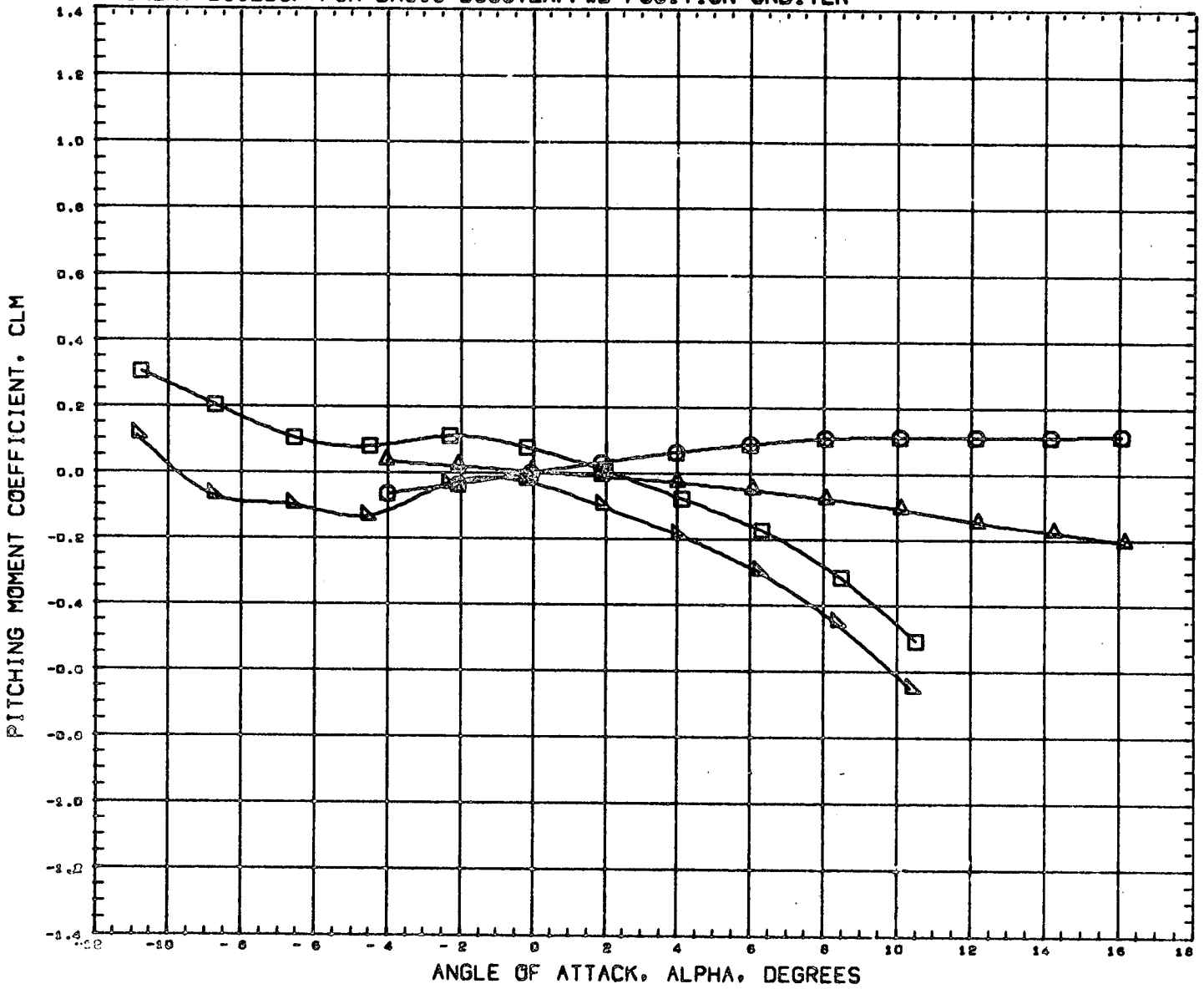
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000			LREF 6.2310 INCHES
(D5032D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	SREF 1.0910 INCHES
(D5035D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMR 3.7820 INCHES
(D5037D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.490

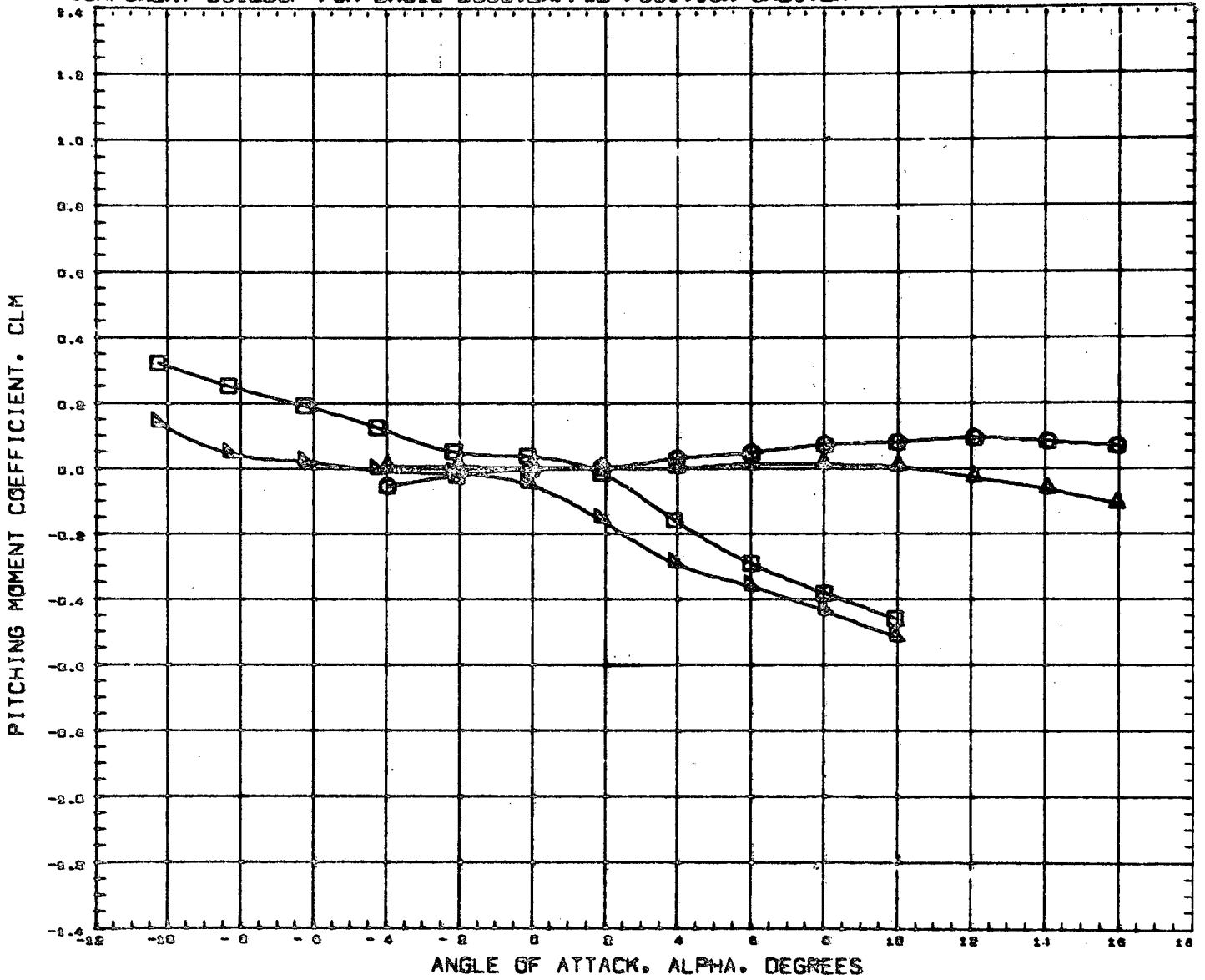
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9018D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E9001D)	MSFC 512 GD/C .003366 BOOSTER B34RGT1L	0.000	0.000			LREF 6.2310 INCHES
(09032D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(09035D)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34RGT1002T3	0.000	0.000	0.000	0.000	XMS ² 3.7920 INCHES
(09037D)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34RGT1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

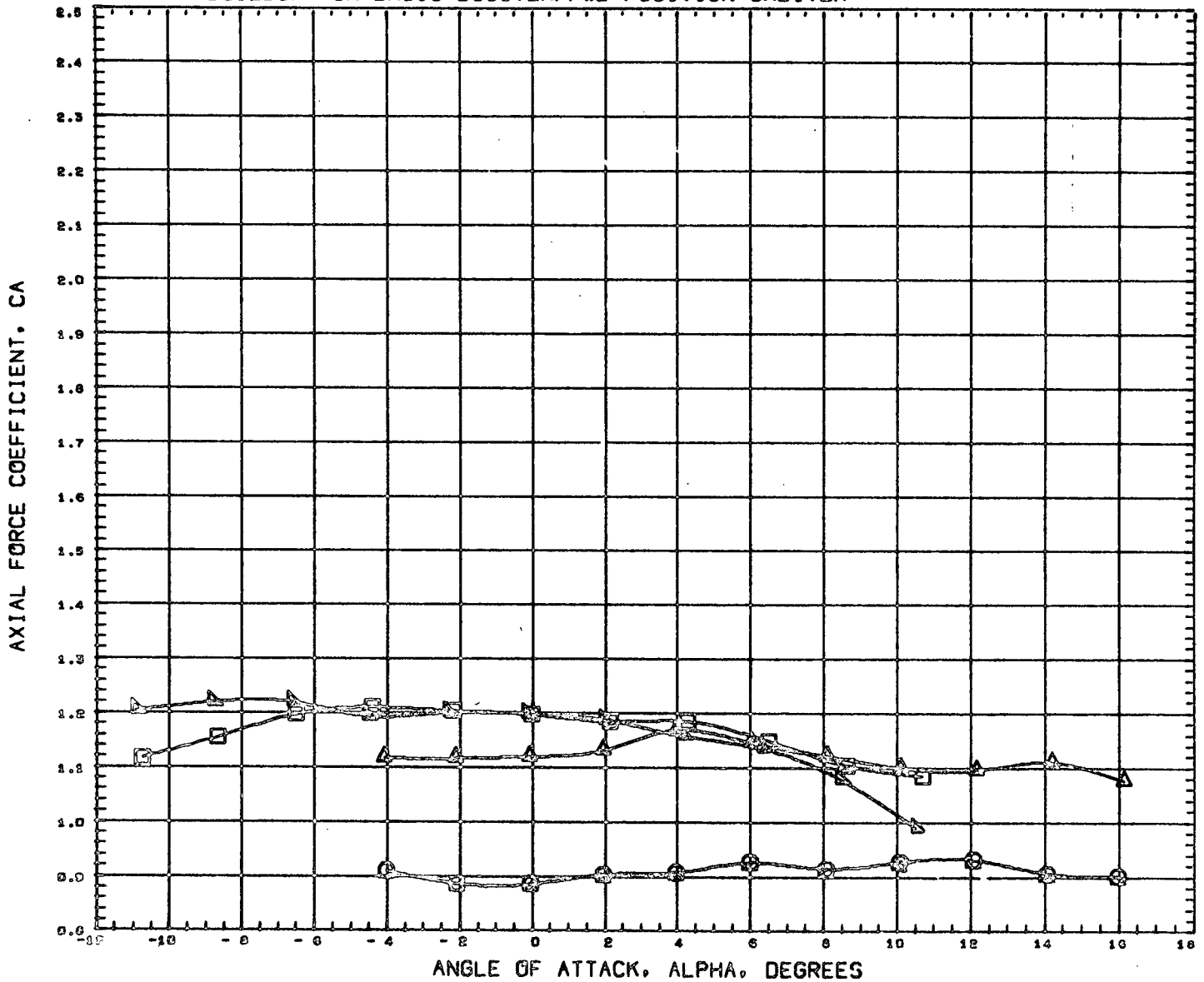
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMQD	LFLAP	RFLAP	REFERENCE INFORMATION	
(B9031D)	RSPC 512 60/C .003366 BOOSTER OS4R6	0.000	45.000			SEEF	0.9390 36. IN.
(B9003R)	RSPC 512 60/C .003366 BOOSTER OS4R6T17	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(B9036D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	1.0910 INCHES
(B9036D)	RSPC 512 60/C .003366 BOOSTER/ORB. B94R6T1002T3	0.000	0.000	0.000	0.000	XMRP	3.7920 INCHES
(B9037D)	RSPC 512 60/C .003366 BOOSTER/ORB. B94R6T1002T3	0.000	0.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

KACH 4.690

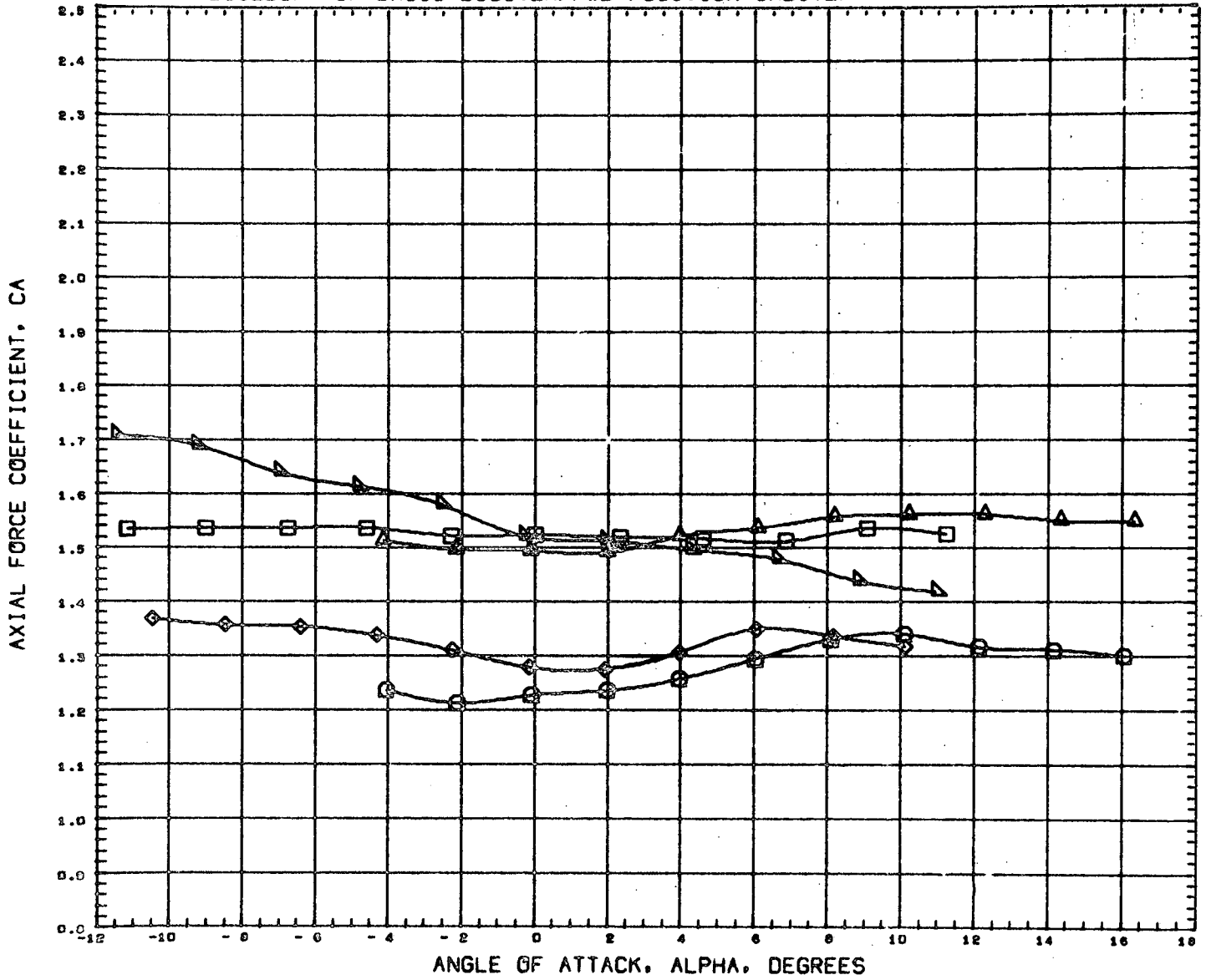
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003306 BOOSTER B34RG	0.000	49.000			SREF 0.9350 SQ. IN.
(E50010)	MSFC 512 GD/C .003306 BOOSTER B34RG110	0.000	0.000			LREF 6.2310 INCHES
(D50320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 1.0810 INCHES
(D50350)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34RG11002T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(D50370)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34RG11002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

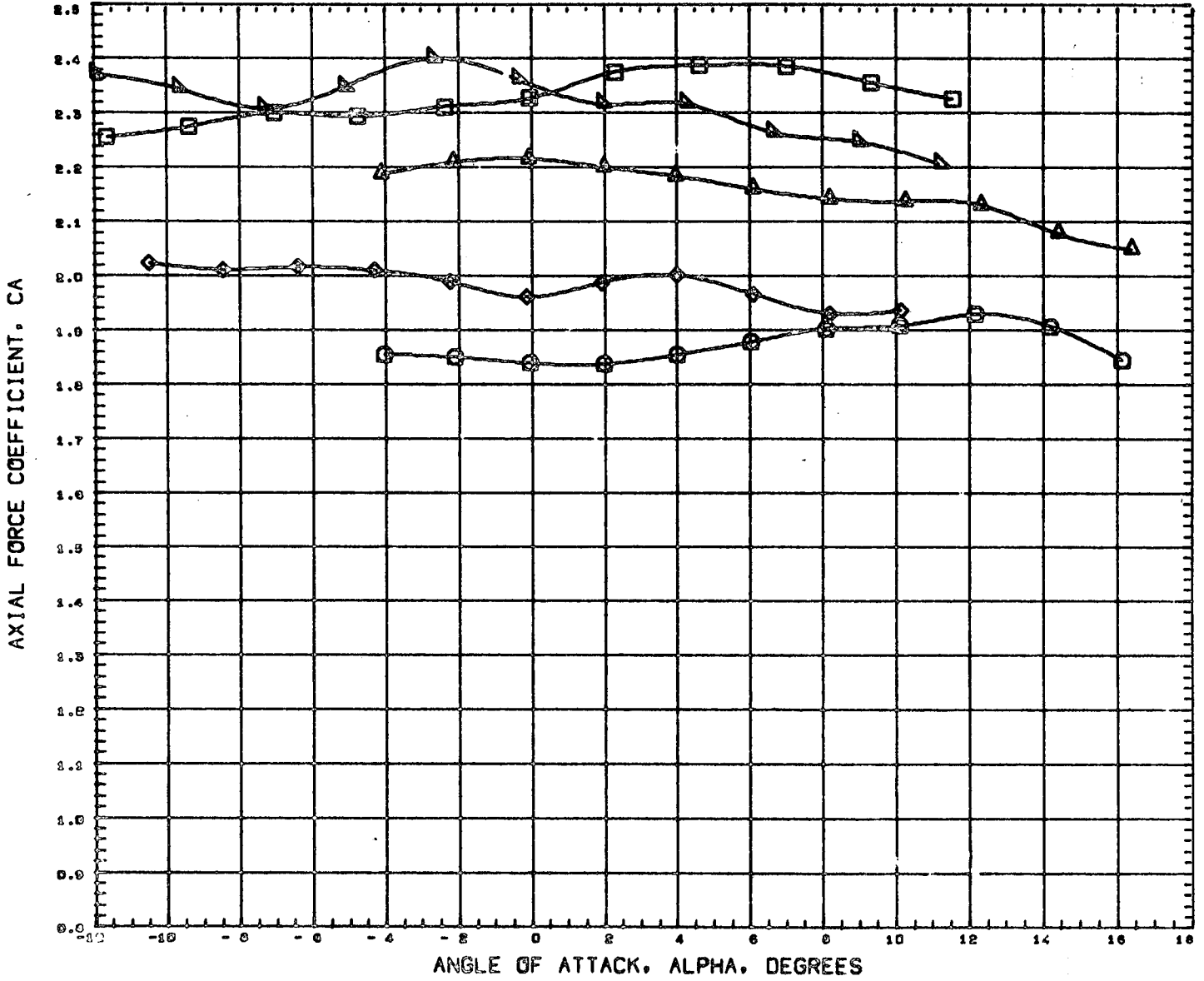
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	CROSS	MSFC 512 GD/C .003968 BOOSTER B34R6	0.000	45.000			SREF 0.9350 8Q.IN.
(E9001D)		MSFC 512 GD/C .003968 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D80320)		MSFC 512 GD/C .003968 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BRFF 1.0910 INCHES
(D50350)		MSFC 512 GD/C .003968 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XNRF 3.7920 INCHES
(D50370)		MSFC 512 GD/C .003968 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 0.901

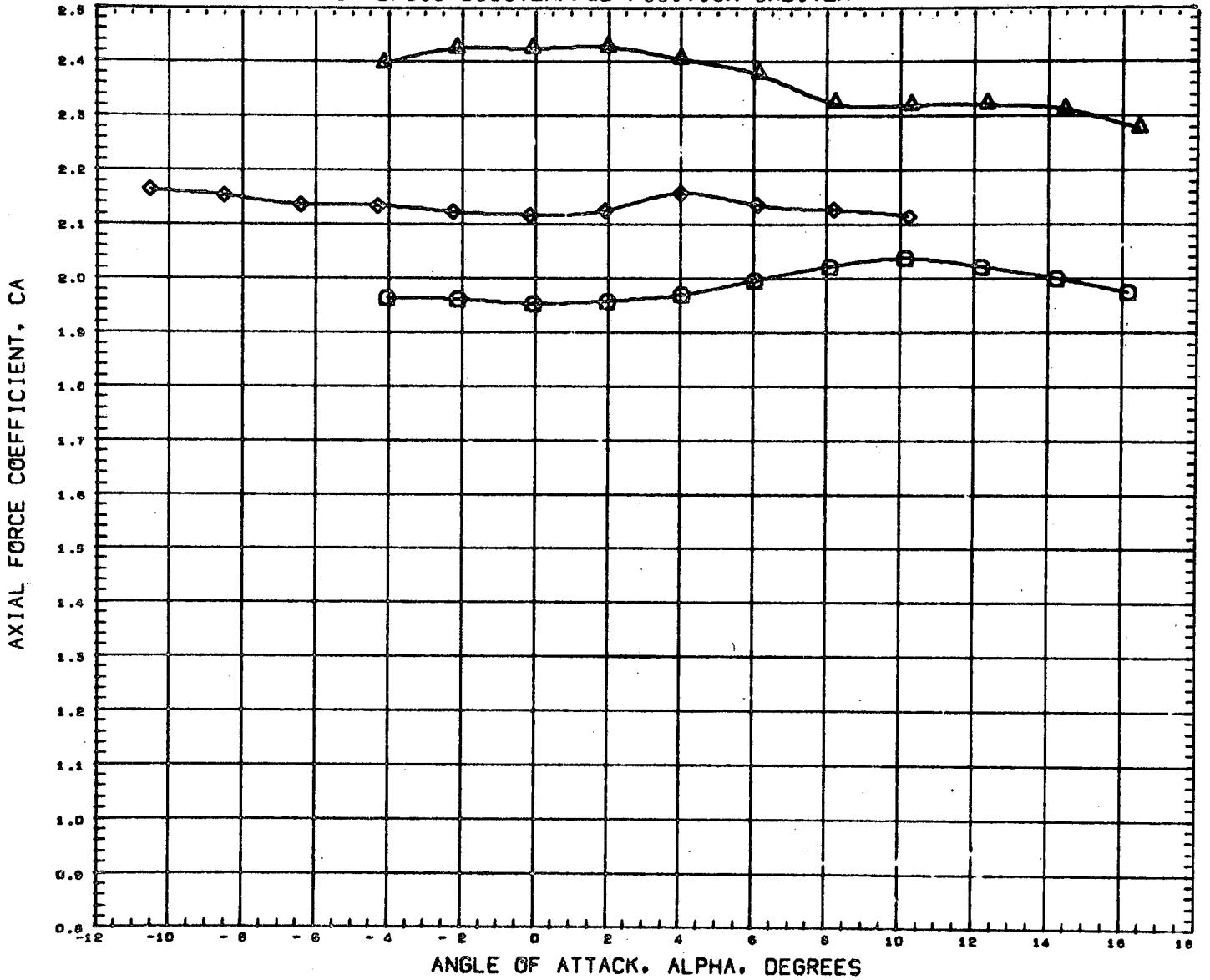
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	□	MSFC 512 GD/C .003300 BOOSTER B34R0	0.000	45.000	0.000	0.000	SREF 0.9380 SQ. IN.
(E50010)	△	MSFC 512 GD/C .003300 BOOSTER B34R6T1P	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50380)	◇	MSFC 512 GD/C .003300 BOOSTER B34R6T1DT3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50350)	○	MSFC 512 GD/C .003300 BOOSTER/ORB. B34R6T3002T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(D50370)	▽	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R6T3002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
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							SCALE 0.0034

MACH 3.100

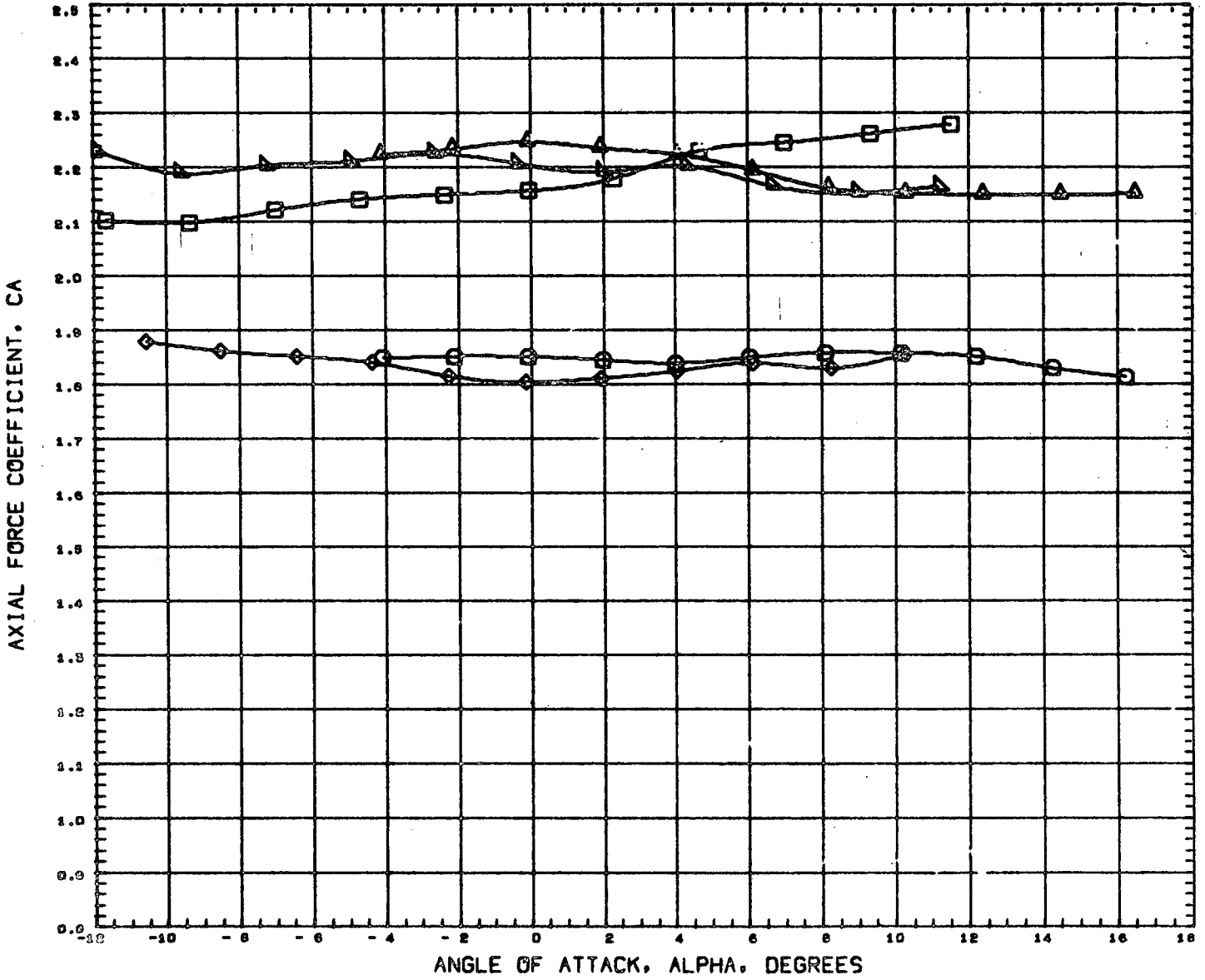
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOC	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E5001D)	M8FC 512 GD/C .003366 BOOSTER B34R6T1C	0.000	0.000		0.000	LREF 6.2310 INCHES
(D5032D)	M8FC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5035D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5037D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.2011

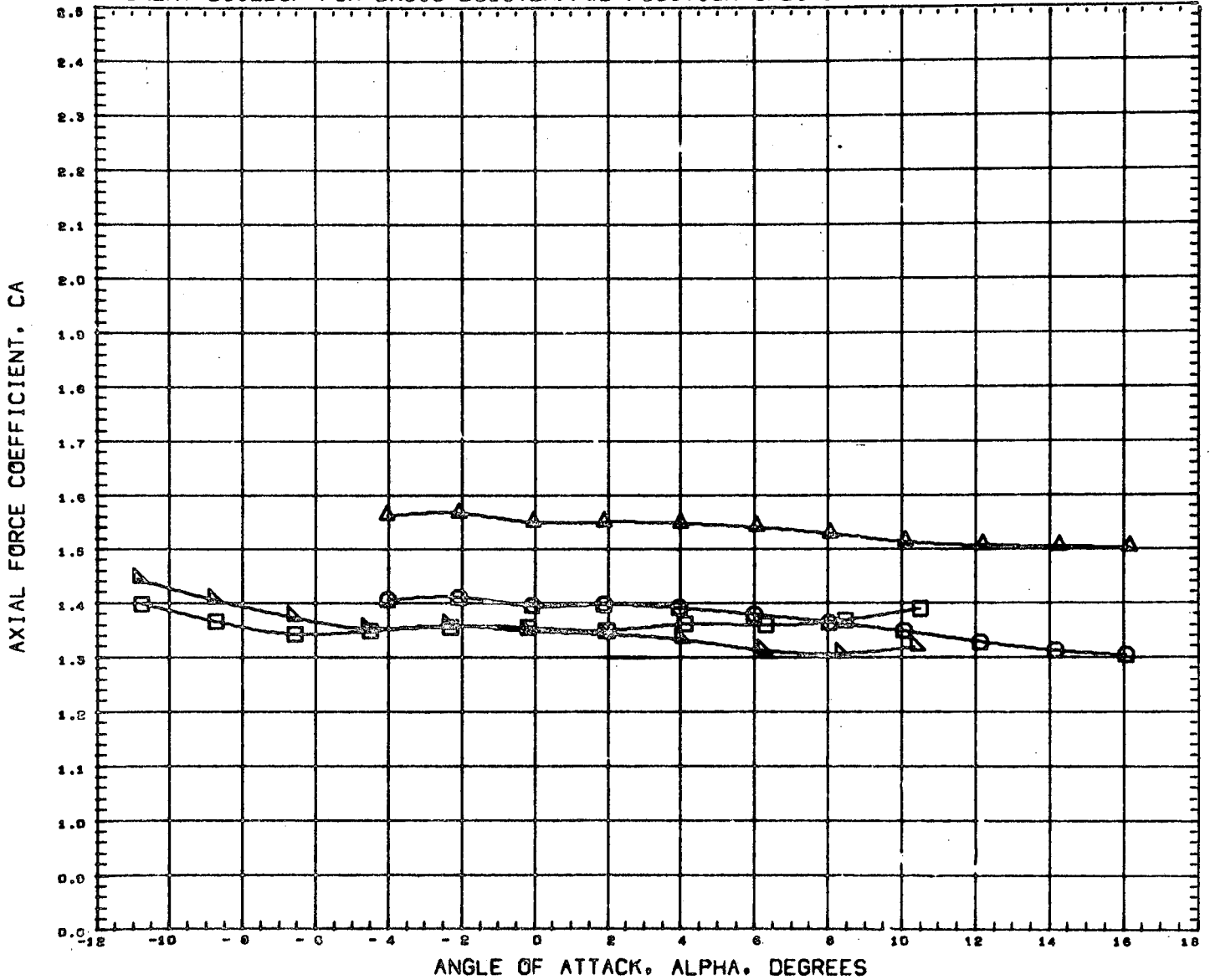
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E5001D)	MSFC 512 GD/C .003368 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	MSFC 512 GD/C .003368 BOOSTER B34R6T1DT3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5035D)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(D5037D)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
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						SCALE 0.0034

MACH 1.458

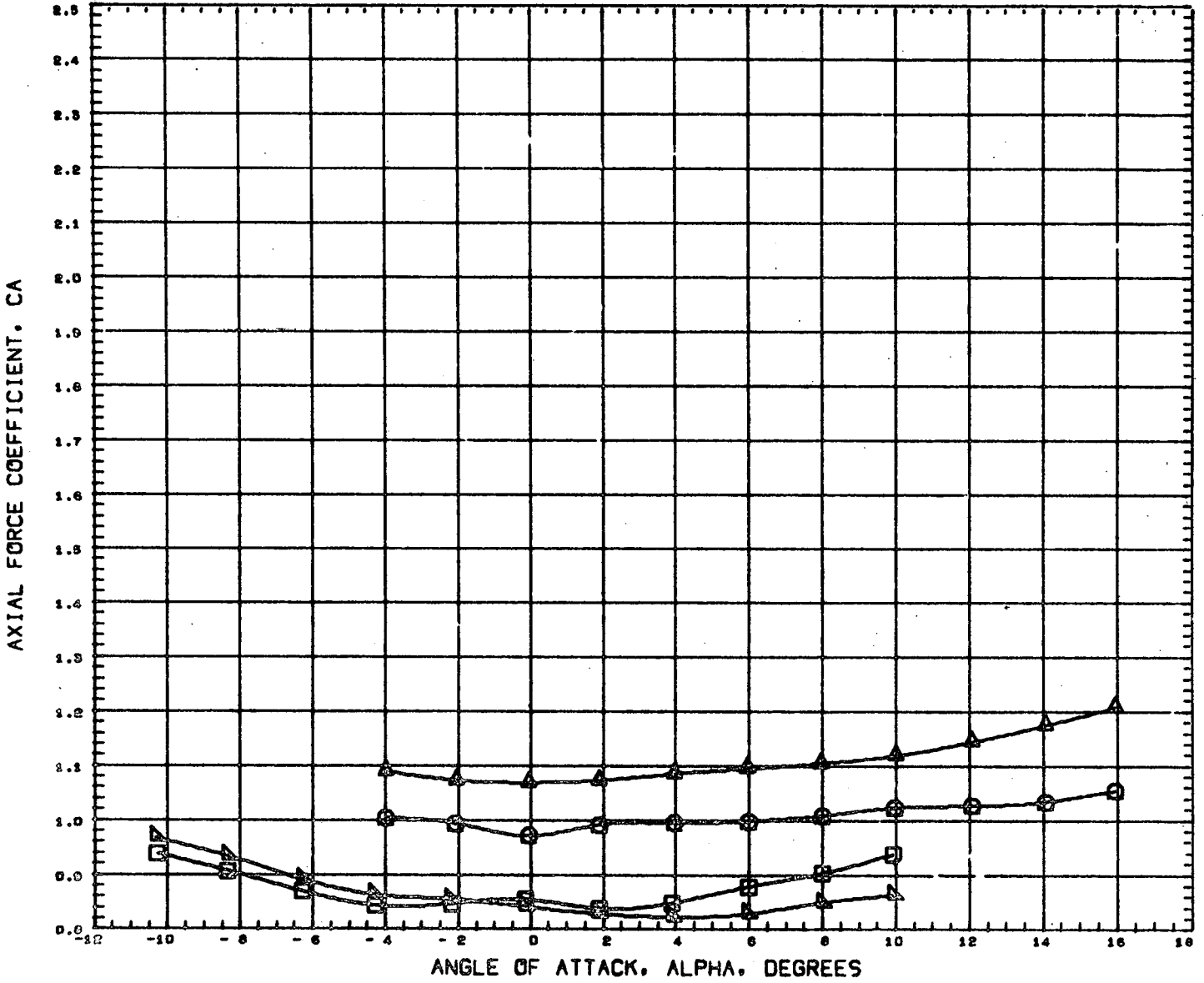
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9390 SQ. IN.
(E5001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90350)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

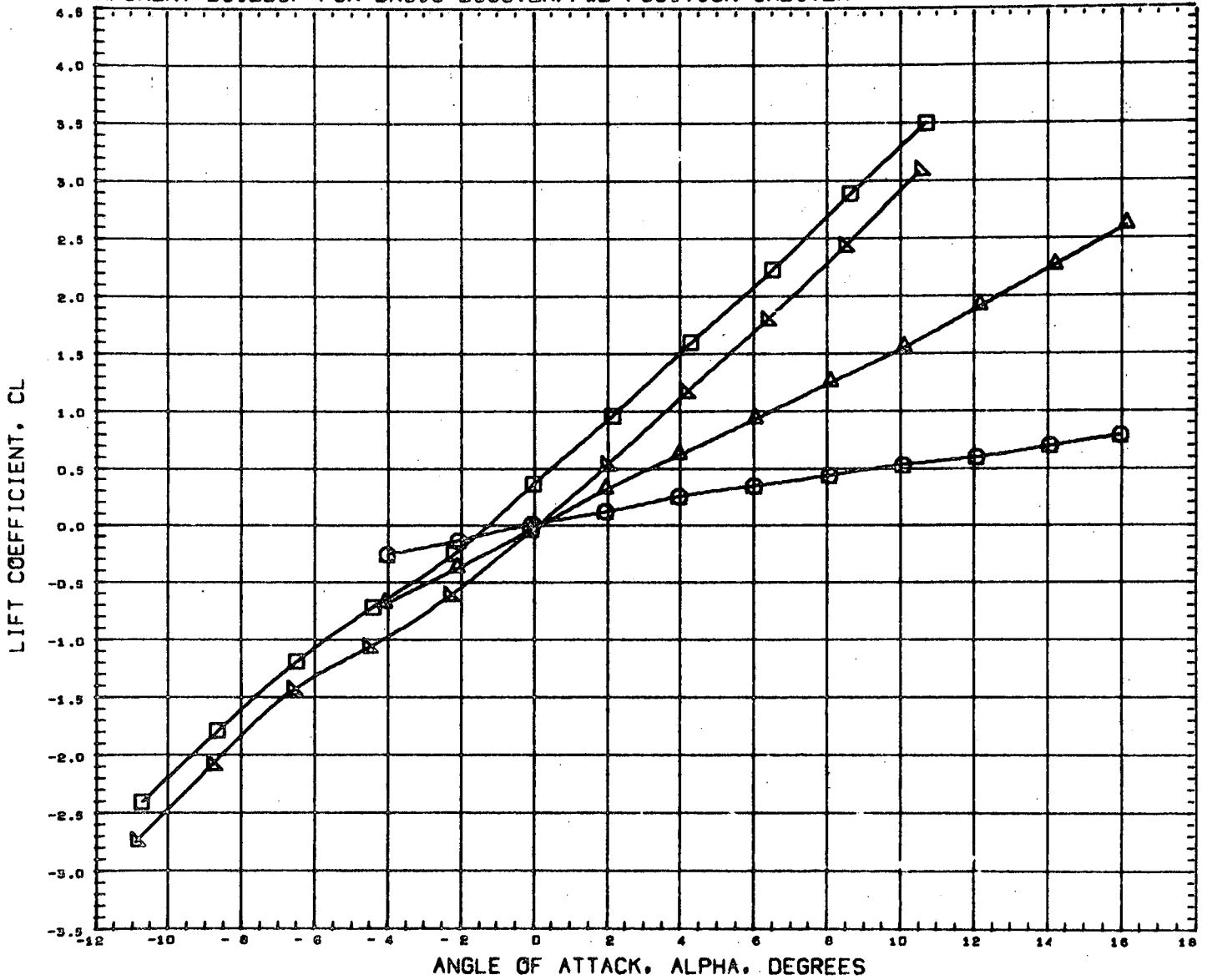
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	M8FC 512 GD/C .003363 BOOSTER B34R6	0.000	45.000			BREF 0.9350 80. IN.
(E5001D)	M8FC 512 GD/C .003306 BOOSTER B34R6Y10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50350)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(D5037D)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.059

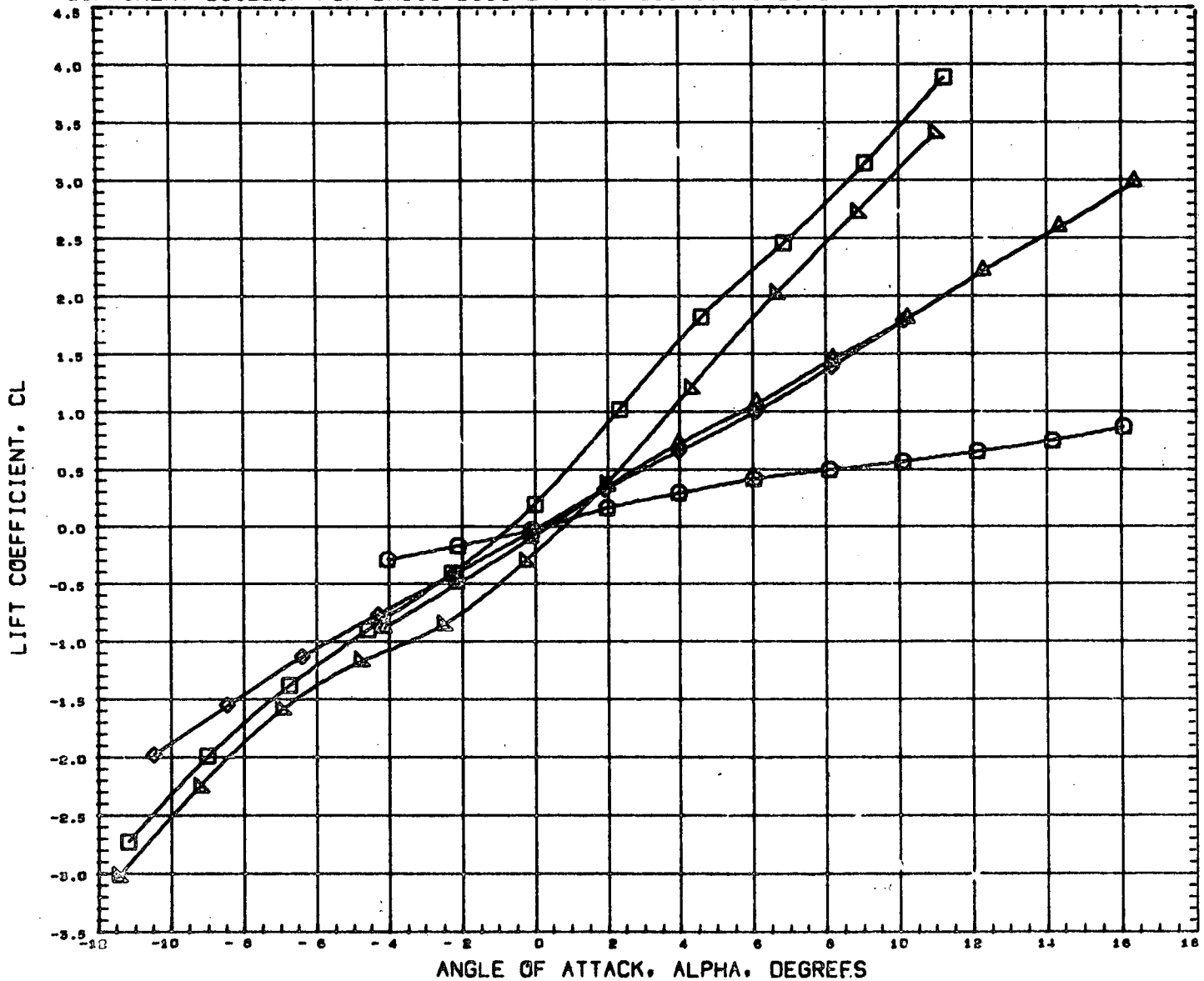
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOC	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 GD/C .003366 BOOSTER. B34R6	0.000	45.000			JREF 0.9350 SQ. IN.
(E9001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T1P	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9032D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0610 INCHES
(D9035D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D9037D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.633

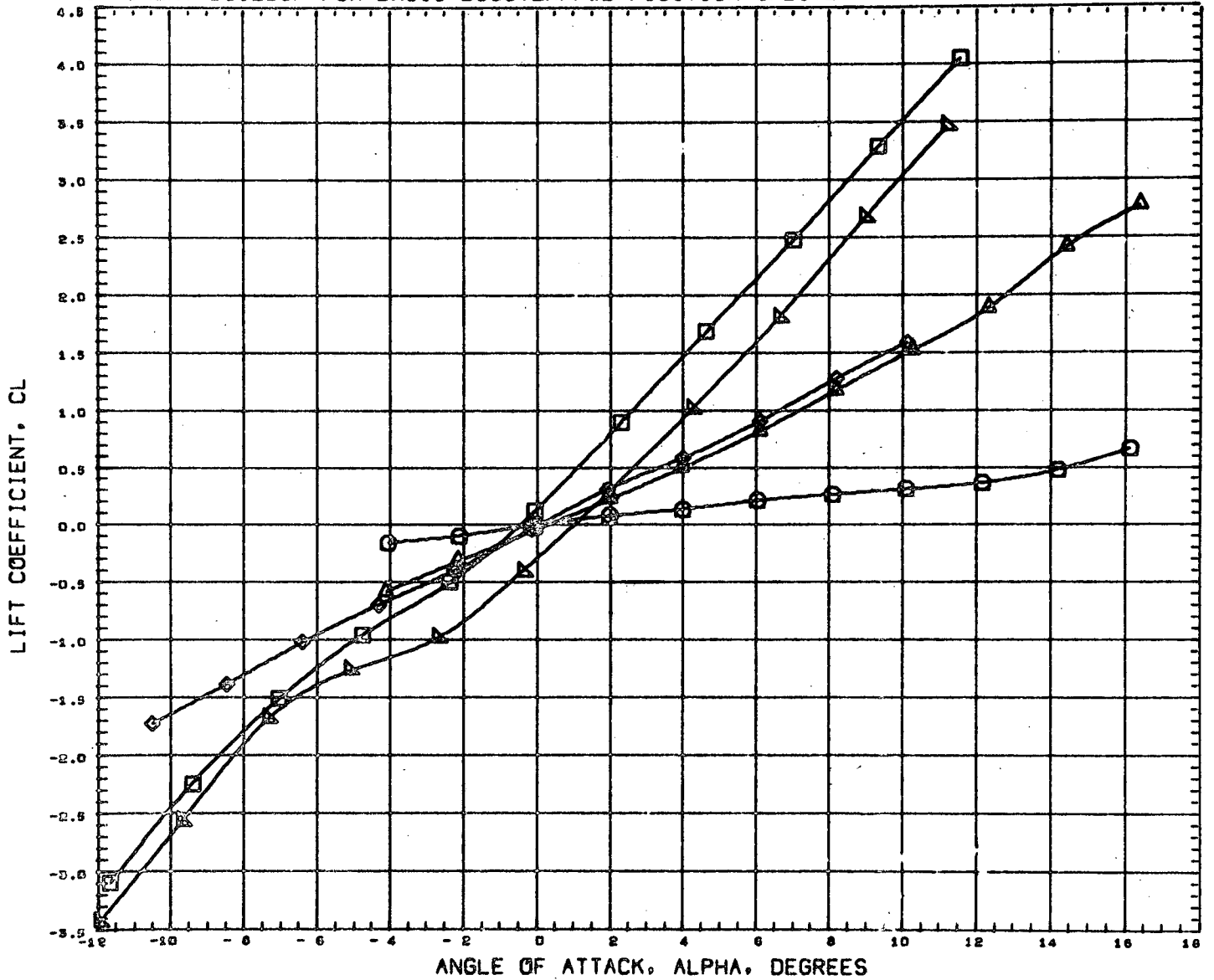
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMCO	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF	0.9350 80. IN.
(E90010)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D90320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	SREF	1.0910 INCHES
(D90350)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	XMP	3.7920 INCHES
(D90370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.600

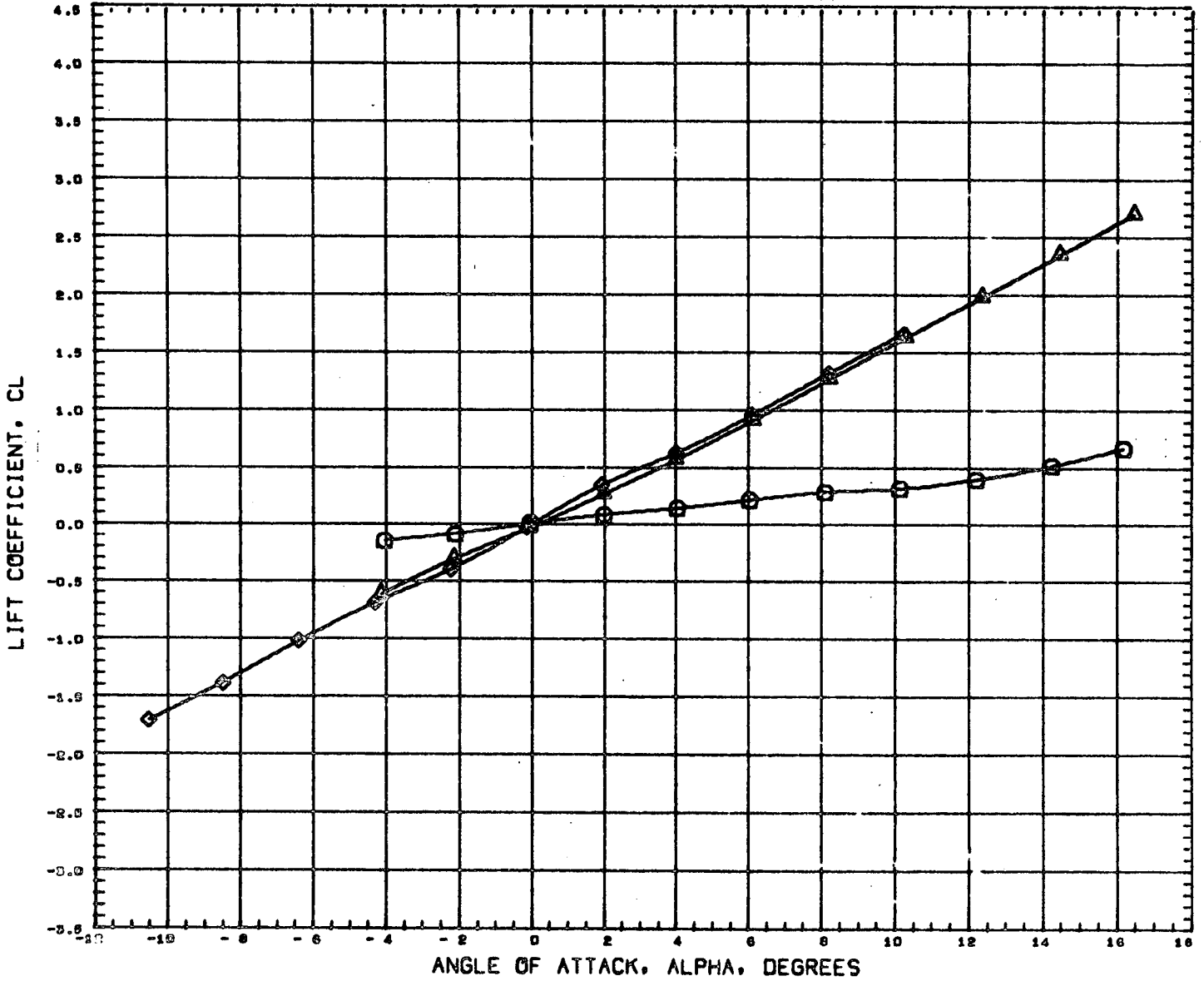
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9380 SQ. IN.
(E9012D)	M8FC 512 GD/C .003366 BOOSTER B34R6T1L	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9032D)	M8FC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D9039D)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMR. 3.7920 INCHES
(D9037D)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 1.100

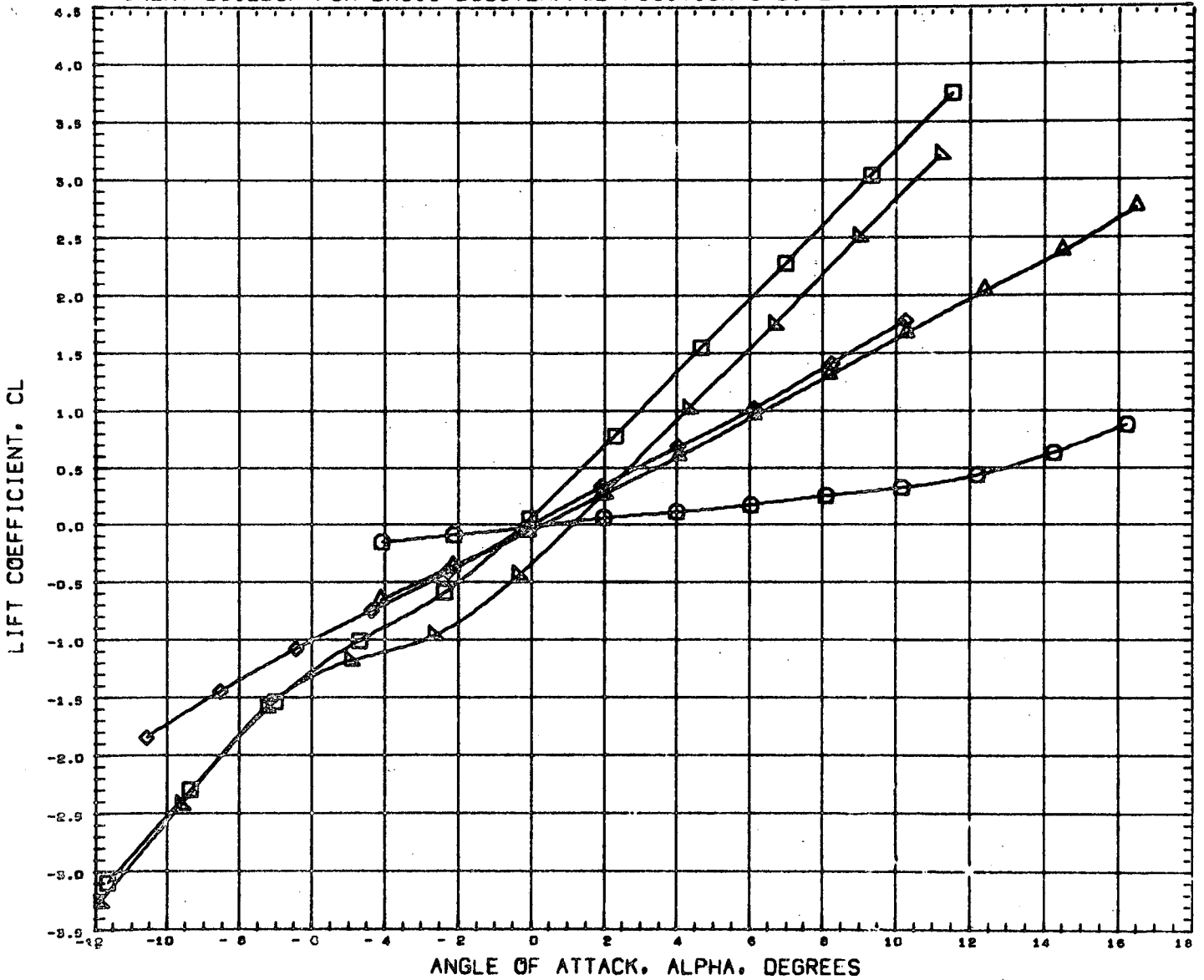
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMCD	LFLAP	RFLAP	REFERENCE INFORMATION
(ES0140)	HSFC 512 GD/C .003500 BOOSTER B34R6	0.000	45.000	0.000	0.000	bREF 0.9390 SQ. IN.
(ES0040)	HSFC 512 GD/C .003500 BOOSTER B34R6T1C	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(DS0320)	HSFC 512 GD/C .003500 BOOSTER B34R6T1DTS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(DS0350)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.500	XMR ² 3.7920 INCHES
(DS0370)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.500	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.211

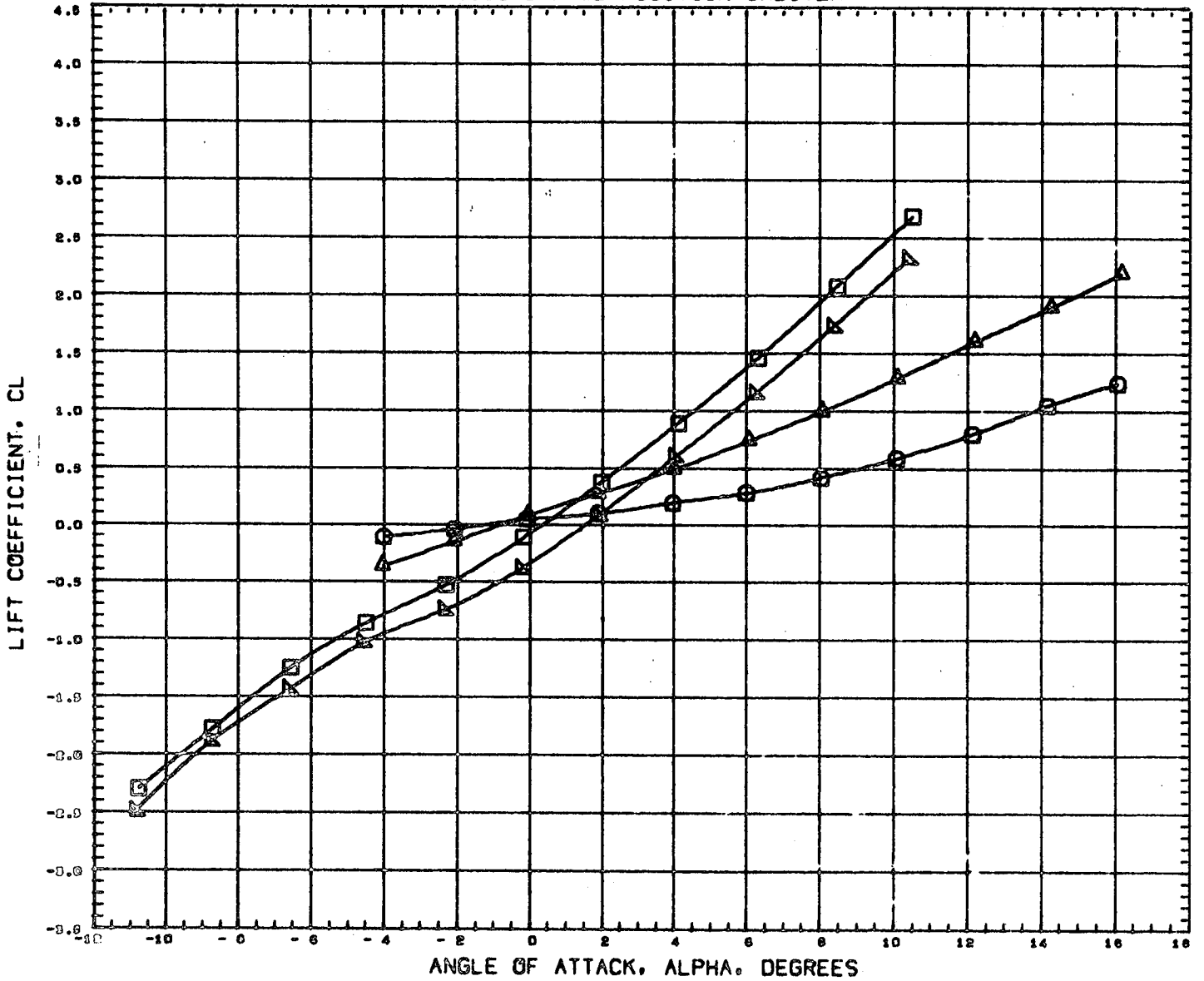
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMGD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003366 BOOSTER B54R6	0.000	45.000			SREF 0.9350 89. IN.
(E5003D)	MSFC 512 GD/C .003366 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	MSFC 512 GD/C .003366 BOOSTER B34R6T1D73	0.000	0.000	0.000	0.000	SREF 1.0910 INCHES
(D5035D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	XREF 3.7920 INCHES
(D5037D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

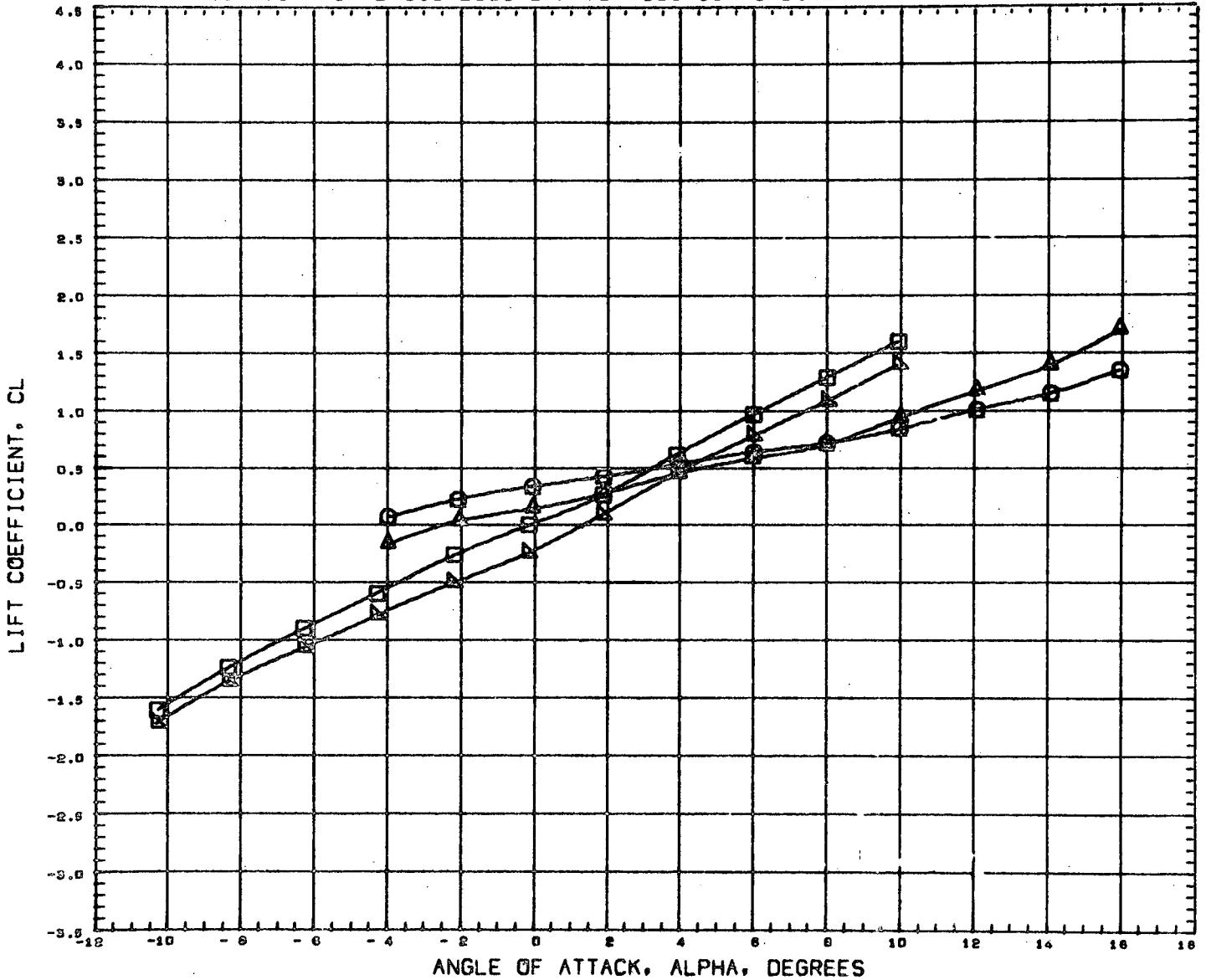
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMCO	LFLAP	RFLAP	REFERENCE INFORMATION
(E3011D)	MSFC 512 CD/C .003306 BOOSTER B34RG	0.000	45.000			BREF 0.0350 SQ. IN.
(E3001D)	MSFC 512 CD/C .003306 BOOSTER B34RG10	0.000	0.000			LREF 6.2310 INCHES
(D5032D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5036D)	MSFC 512 CD/C .003366 BOOSTER/ORB. B34RG1002T3	0.000	0.000	0.000	0.000	XMR ² 3.7920 INCHES
(D5037D)	MSFC 512 CD/C .003366 BOOSTER/ORB. B34RG1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

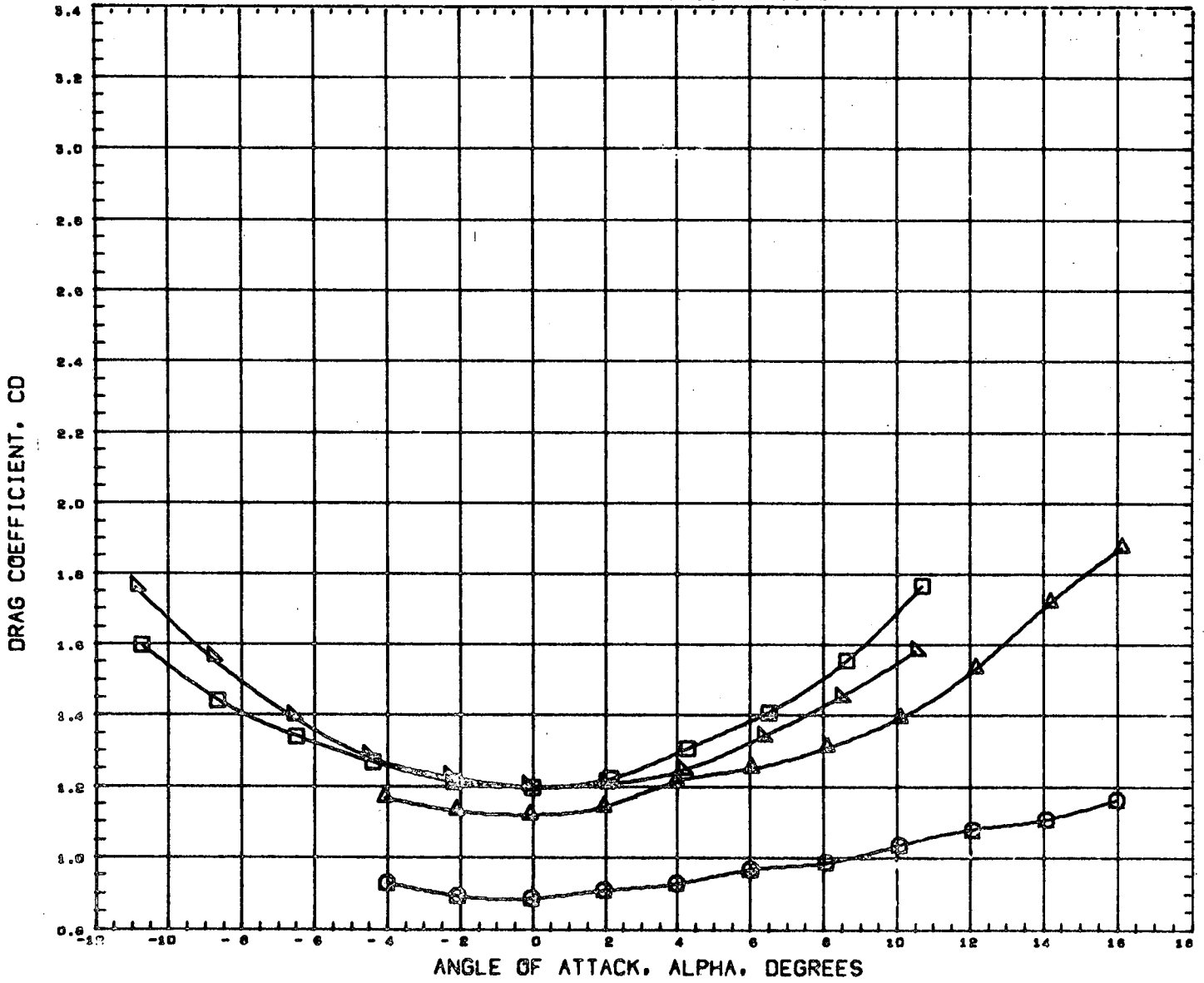
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	VFLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E9001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T1C	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90350)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D90370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T5	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0054

MACH 4.959

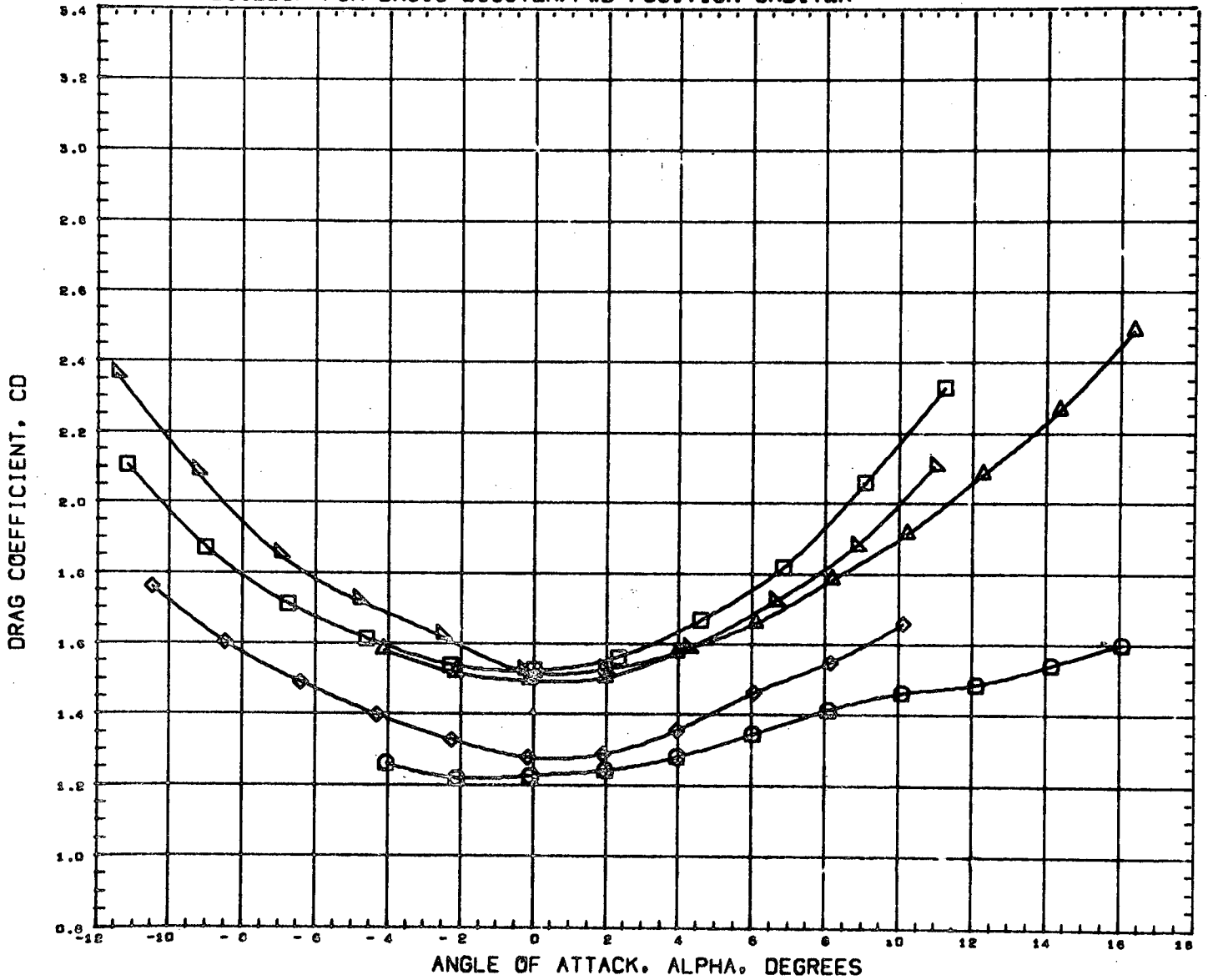
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	NSFC 51E GD/C .003366 BOOSTER B34R6	0.000	45.000			BREF 0.9350 SQ. IN.
(E5001D)	NSFC 51E GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5035D)	NSFC 51E GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMR ⁰ 3.7920 INCHES
(D5037D)	NSFC 51E GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.673

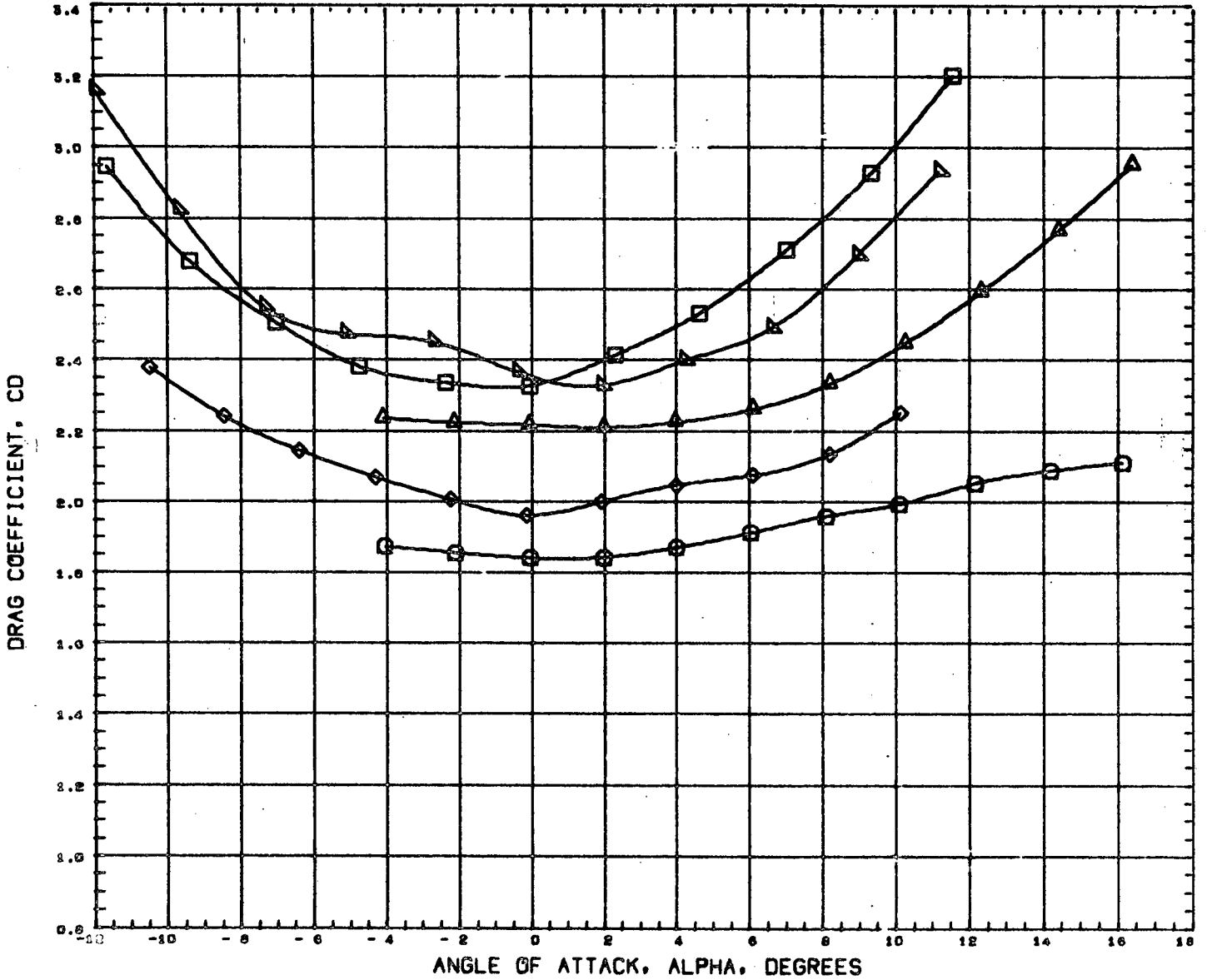
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	H8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			LREF 0.9350 SQ. IN.
(E50010)	H8FC 512 GD/C .003366 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	H8FC 512 GD/C .003366 BOOSTER B34R6T1D1T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50380)	H8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50370)	H8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.900

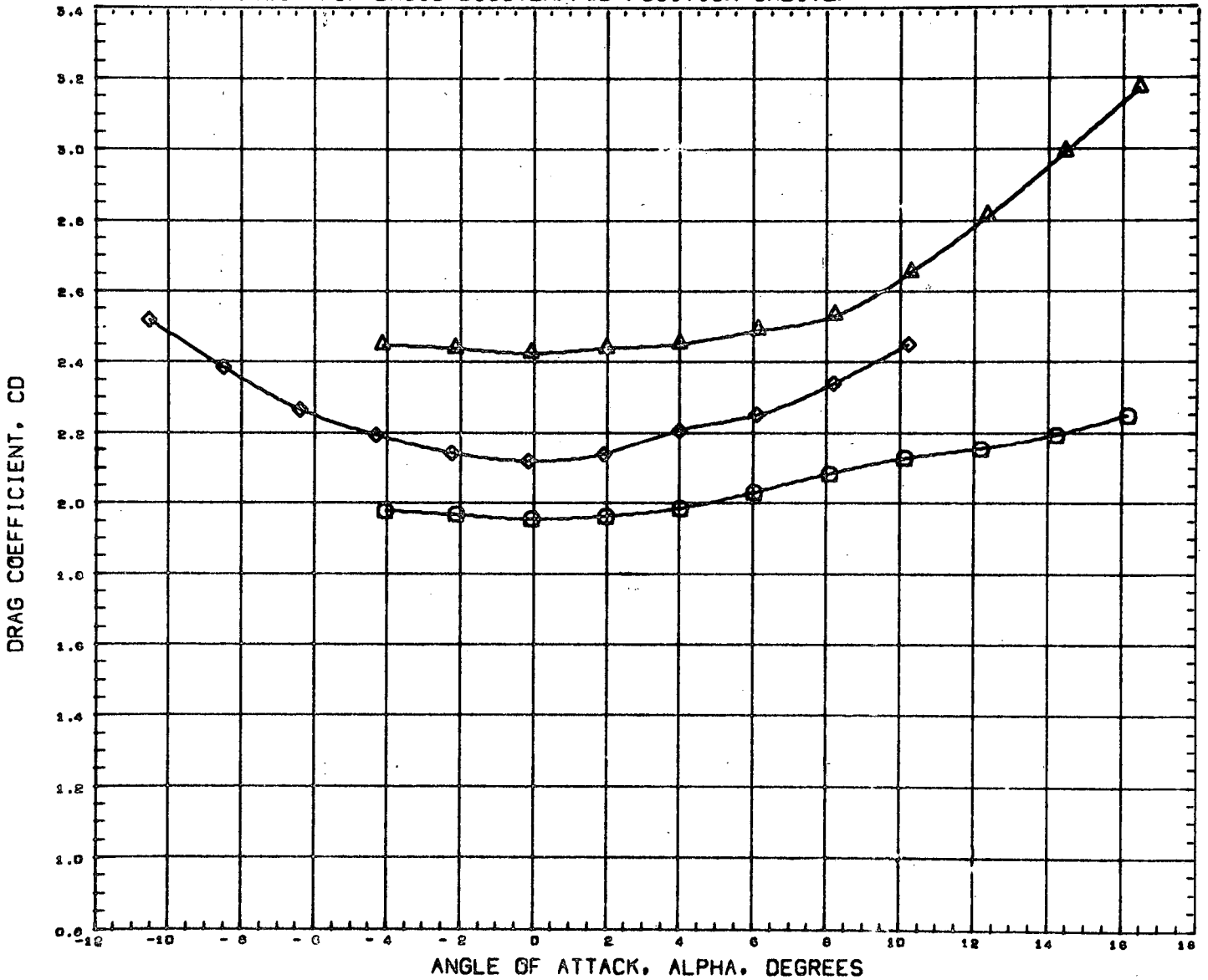
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E9001D)	MSFC 512 GD/C .003366 BOOSTER B34RGT1C	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9032D)	MSFC 512 GD/C .003366 BOOSTER B34RGT10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D9035D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34RGT1002T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(D9037D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34RGT1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.170

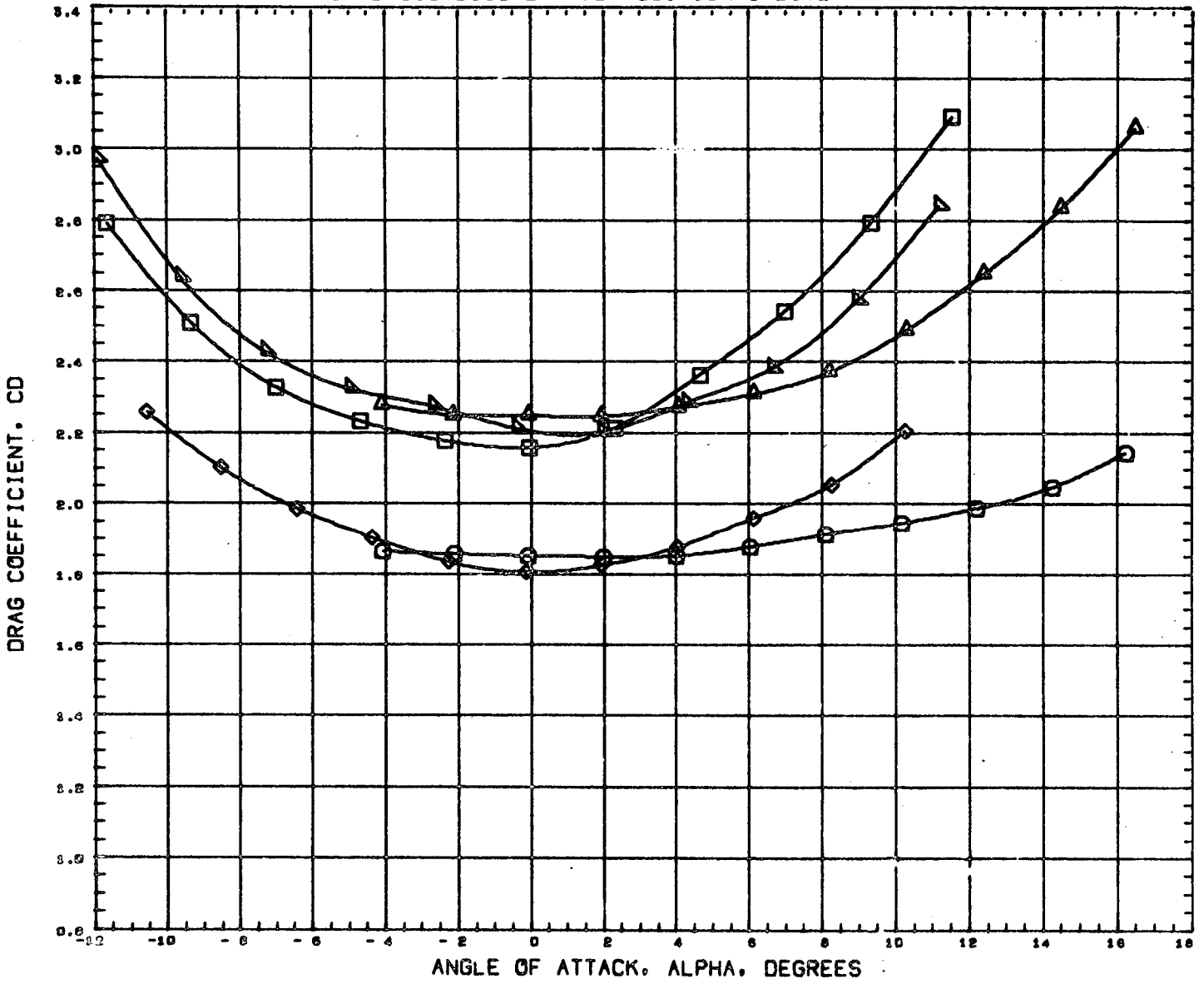
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 GD/C .003366 BOOSTER BS4R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E9001D)	MSFC 512 GD/C .003366 BOOSTER BS4R6T1L	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9032D)	MSFC 512 GD/C .003366 BOOSTER BS4R6T10TS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D9035D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D9037D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.201

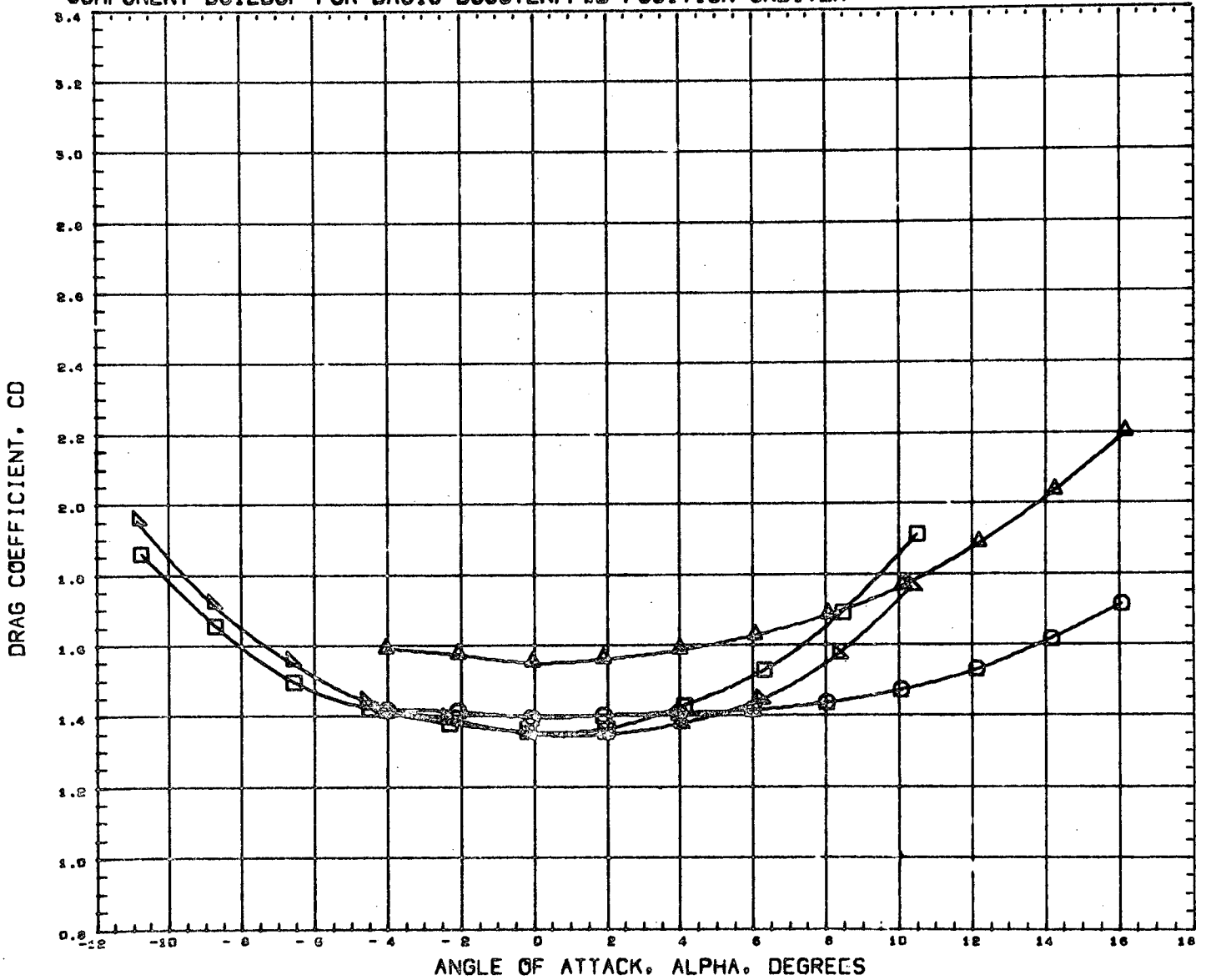
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003300 BOOSTER B34R8	0.000	45.000			SREF 0.9350 84. IN.
(E50010)	MSFC 512 GD/C .003300 BOOSTER B34R8T1	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003300 BOOSTER B34R8T1DT3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50350)	MSFC 512 GD/C .003300 BOOSTER/ORD. B34R8T1002T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(D50370)	MSFC 512 GD/C .003300 BOOSTER/ORD. B34R8T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

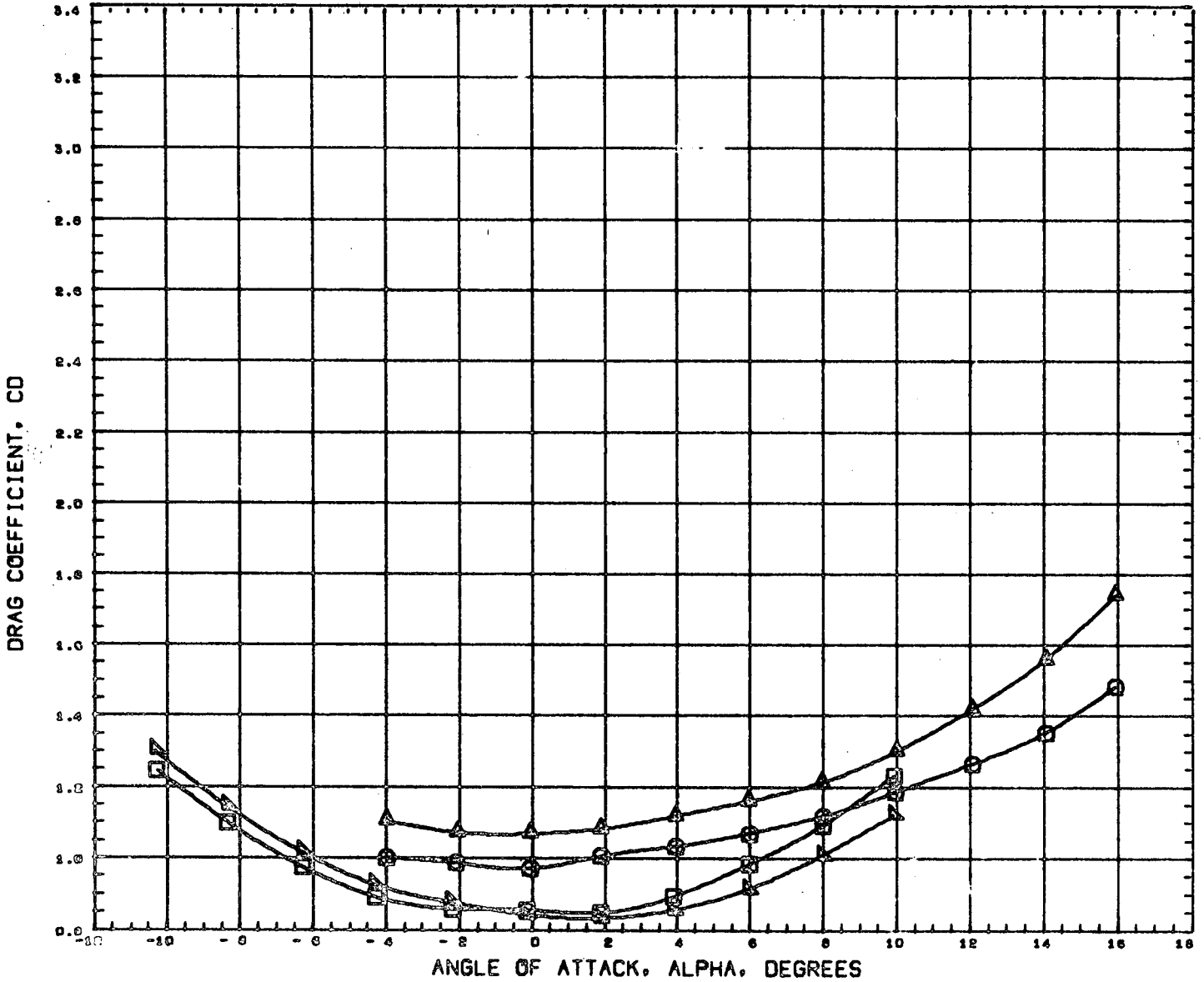
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 GD/C .003966 BOOSTER B34R6	0.000	49.000			SREF 0.9350 SQ. IN.
(E9001D)	MSFC 512 GD/C .003966 BOOSTER B34R6T1U	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50350)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMRF 3.7920 INCHES
(D50370)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.140

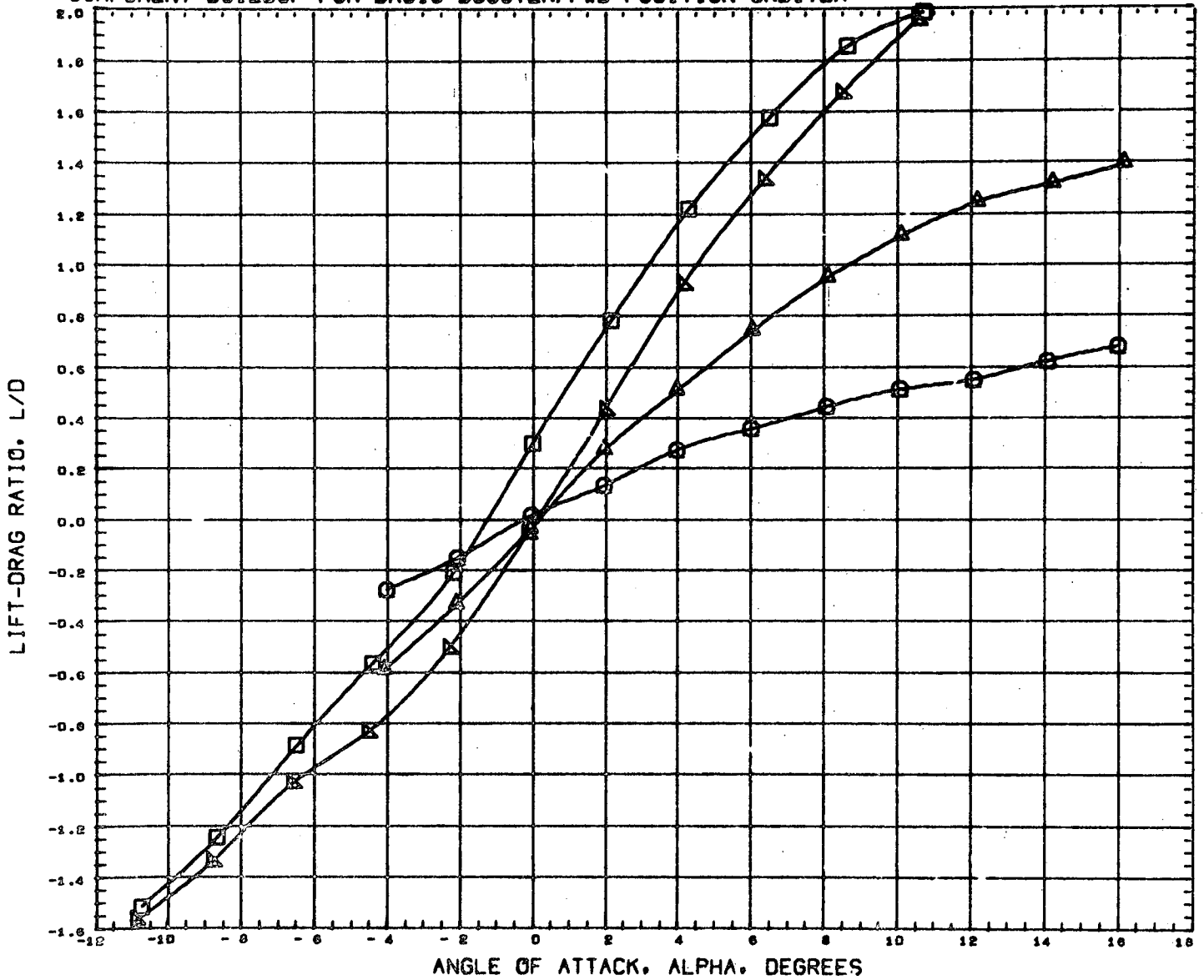
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	MSFC 512 GD/C .003300 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E90010)	MSFC 512 GD/C .003300 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90350)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1D02T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D90370)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

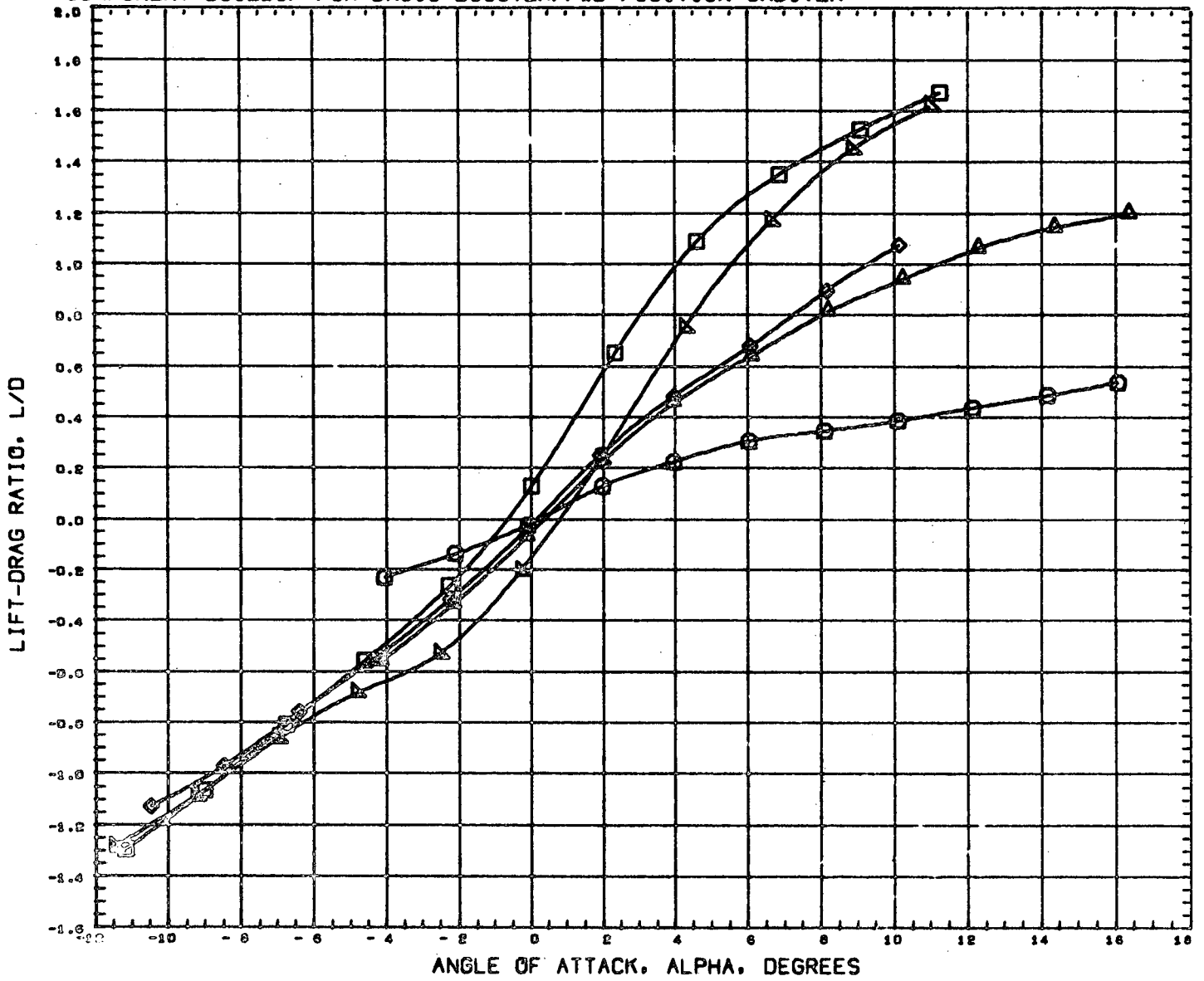
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E9001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5035D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMR° 3.7920 INCHES
(D5037D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

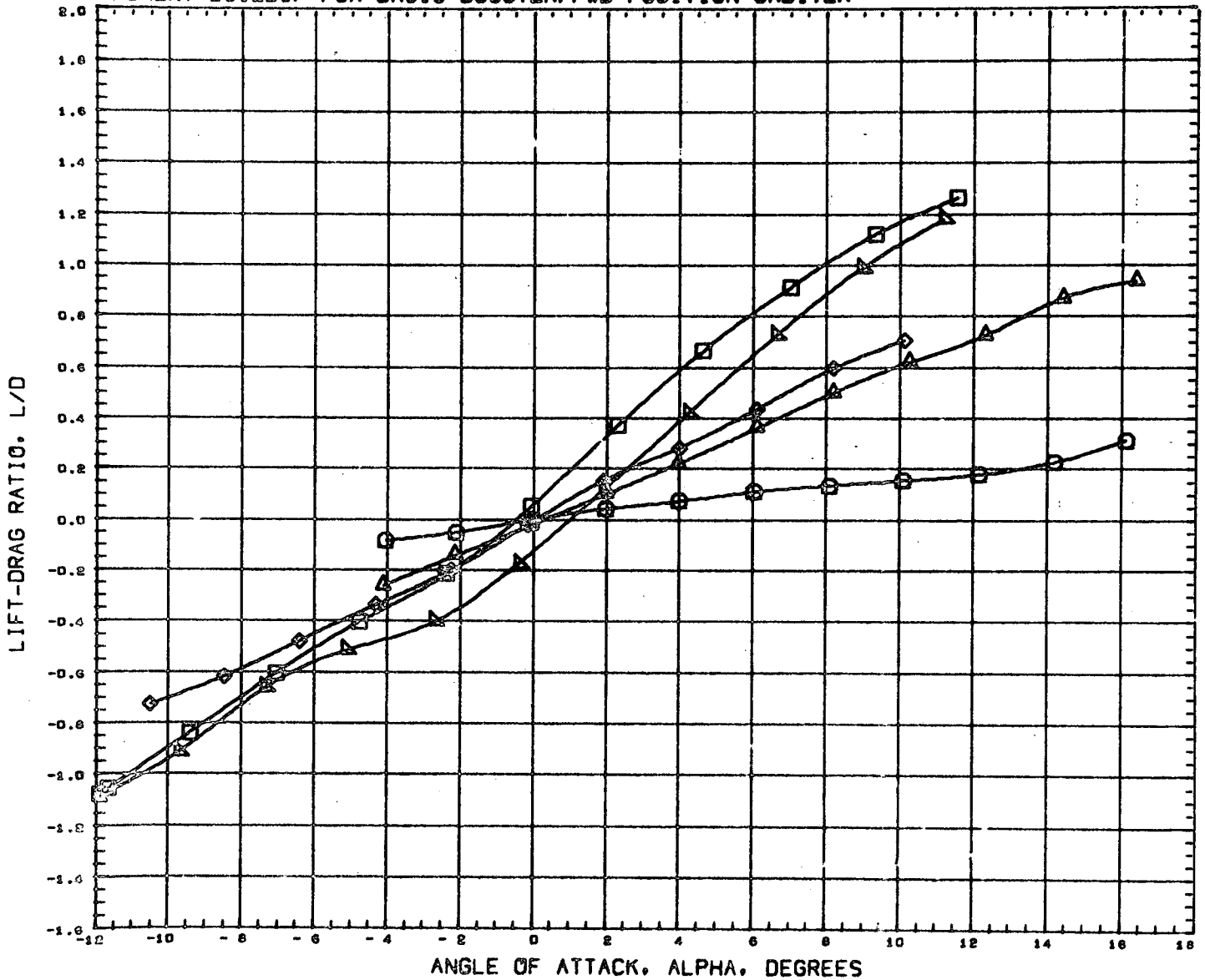
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	M8FC 512 GD/C .003800 BOOSTER B34R6	0.000	45.000	0.000	0.000	BREF 0.9350 80. IN.
(E50010)	M8FC 512 GD/C .003800 BOOSTER B34R6T1L	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	M8FC 512 GD/C .003800 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50350)	M8FC 512 GD/C .003800 BOOSTER/ORD. B34R6T1002T3	0.000	0.000	0.000	0.000	U.L00 XMR. 3.7920 INCHES
(D50370)	M8FC 512 GD/C .003800 BOOSTER/ORD. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.910

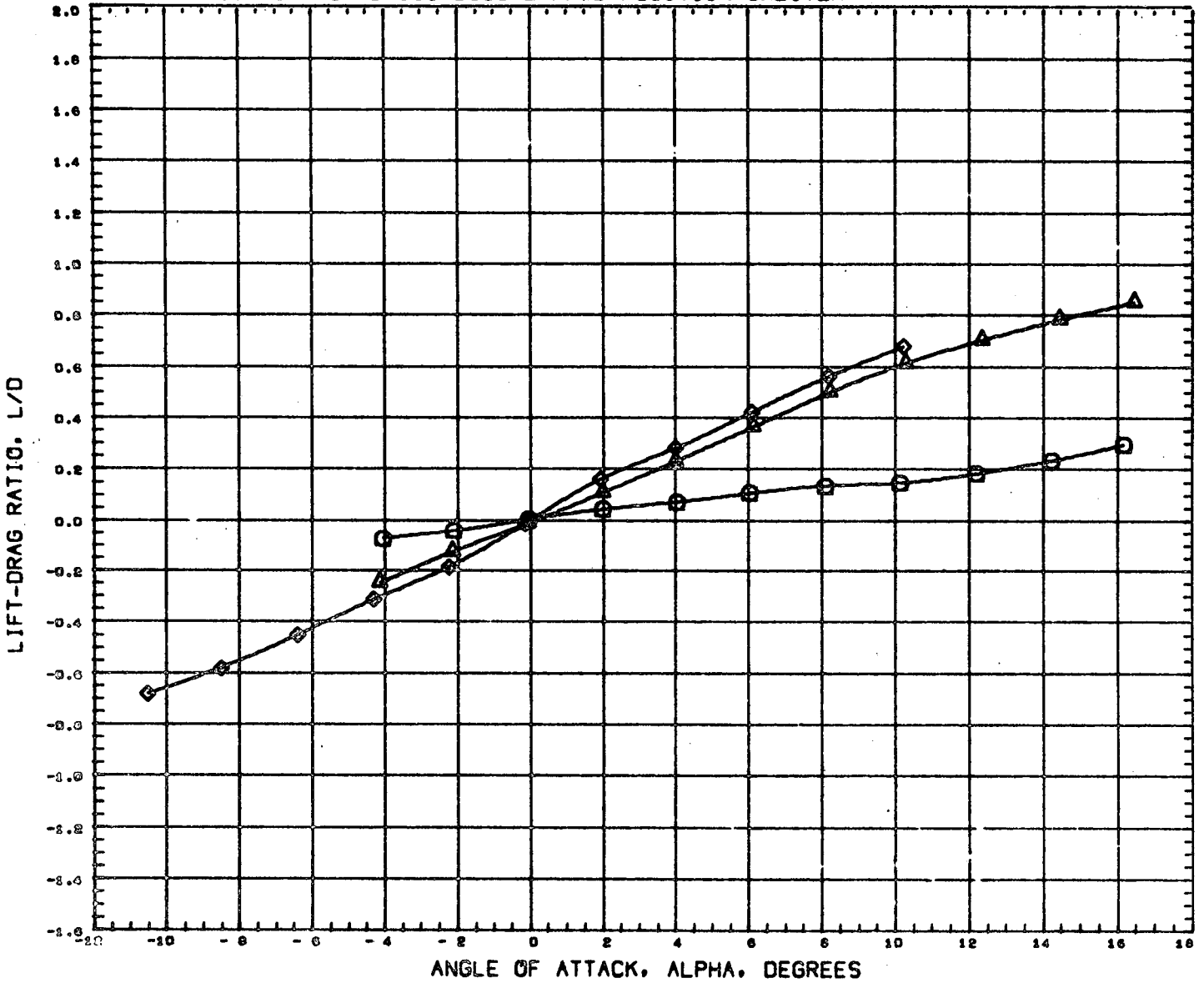
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003368 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E50010)	MSFC 512 GD/C .003368 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90320)	MSFC 512 GD/C .003368 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90350)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(D90370)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

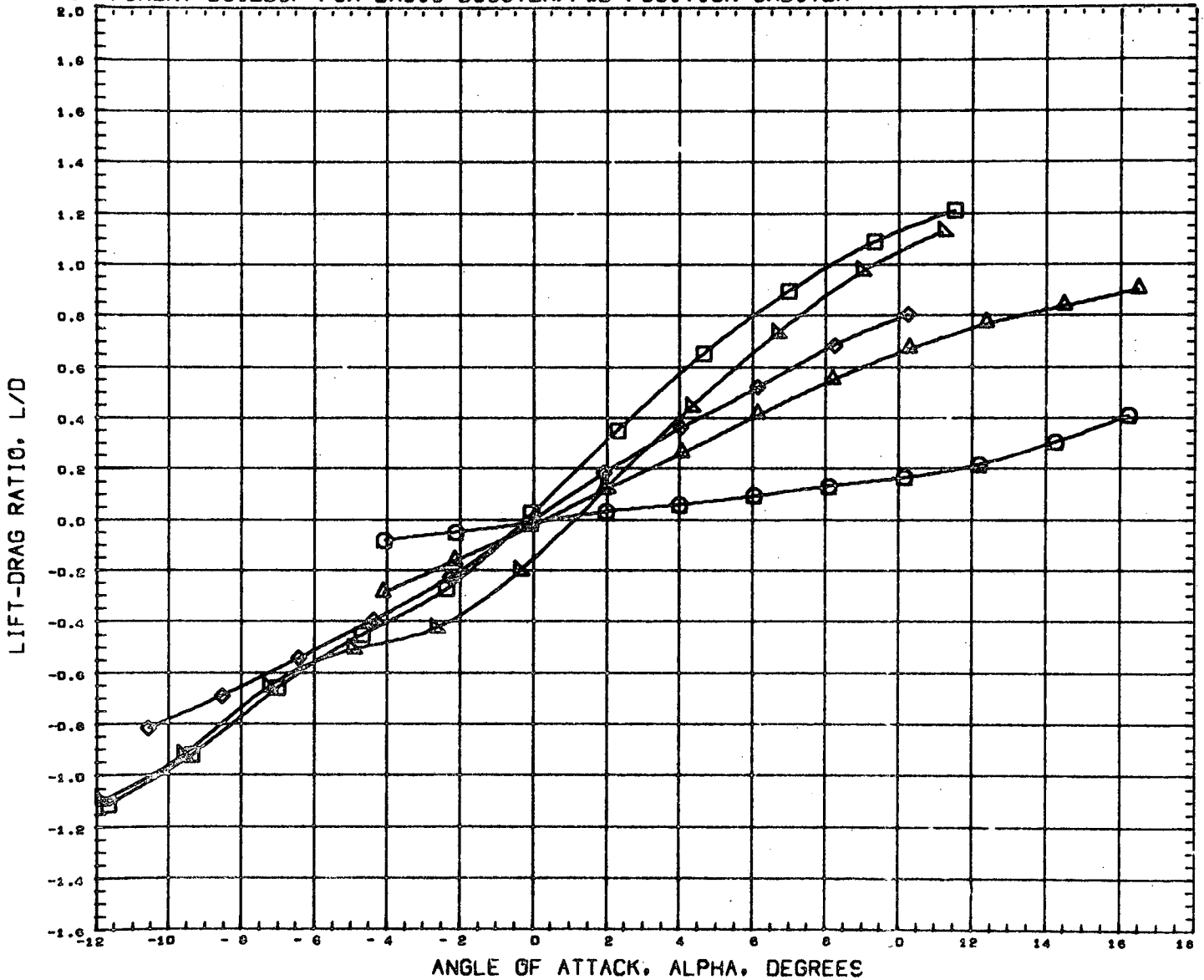
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 6D/C .003300 BOOSTER 834R6	0.000	45.000			BREF 0.9350 SQ. IN.
(E5001D)	MSFC 512 6D/C .003300 BOOSTER 834R6T1C	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5082D)	MSFC 512 6D/C .003300 BOOSTER 834R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5035D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMR* 3.7920 INCHES
(D5037D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.211

COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER

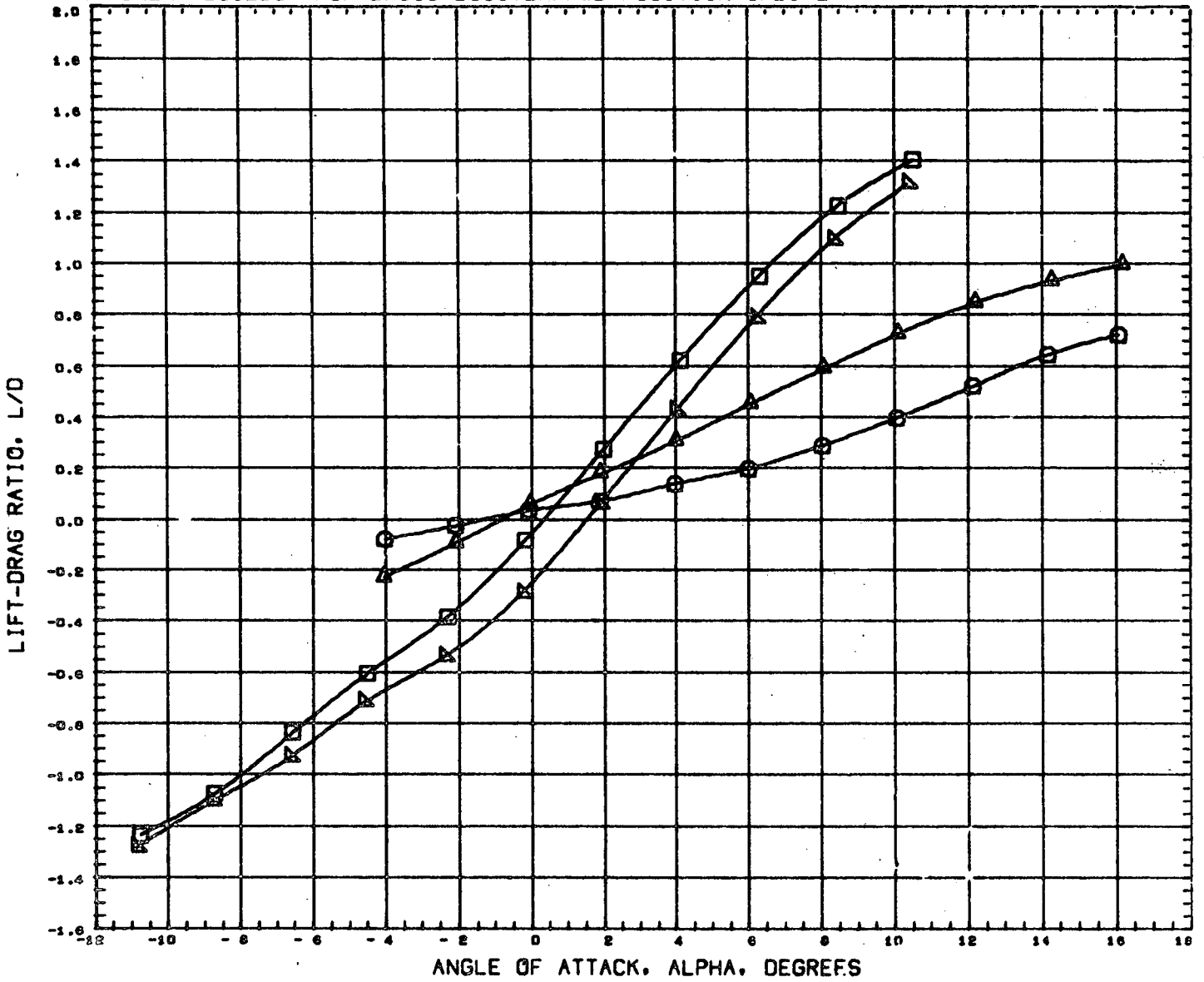


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 GD/C .003366 BOOSTER B34RG	0.000	45.000			SREF 0.9350 84. IN.
(E9001D)	MSFC 512 GD/C .003366 BOOSTER B34RG10	0.000	0.000	0.000	1.000	LREF 6.2310 INCHES
(D9032D)	MSFC 512 GD/C .003366 BOOSTER B34RG10T3	0.000	0.000	0.000	1.000	RREF 1.0910 INCHES
(D9039D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XNRP 3.7920 INCHES
(D9037D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YNRP 0.0000 INCHES ZNRP 0.0000 INCHES SCALE 0.0034

MACH 1.450

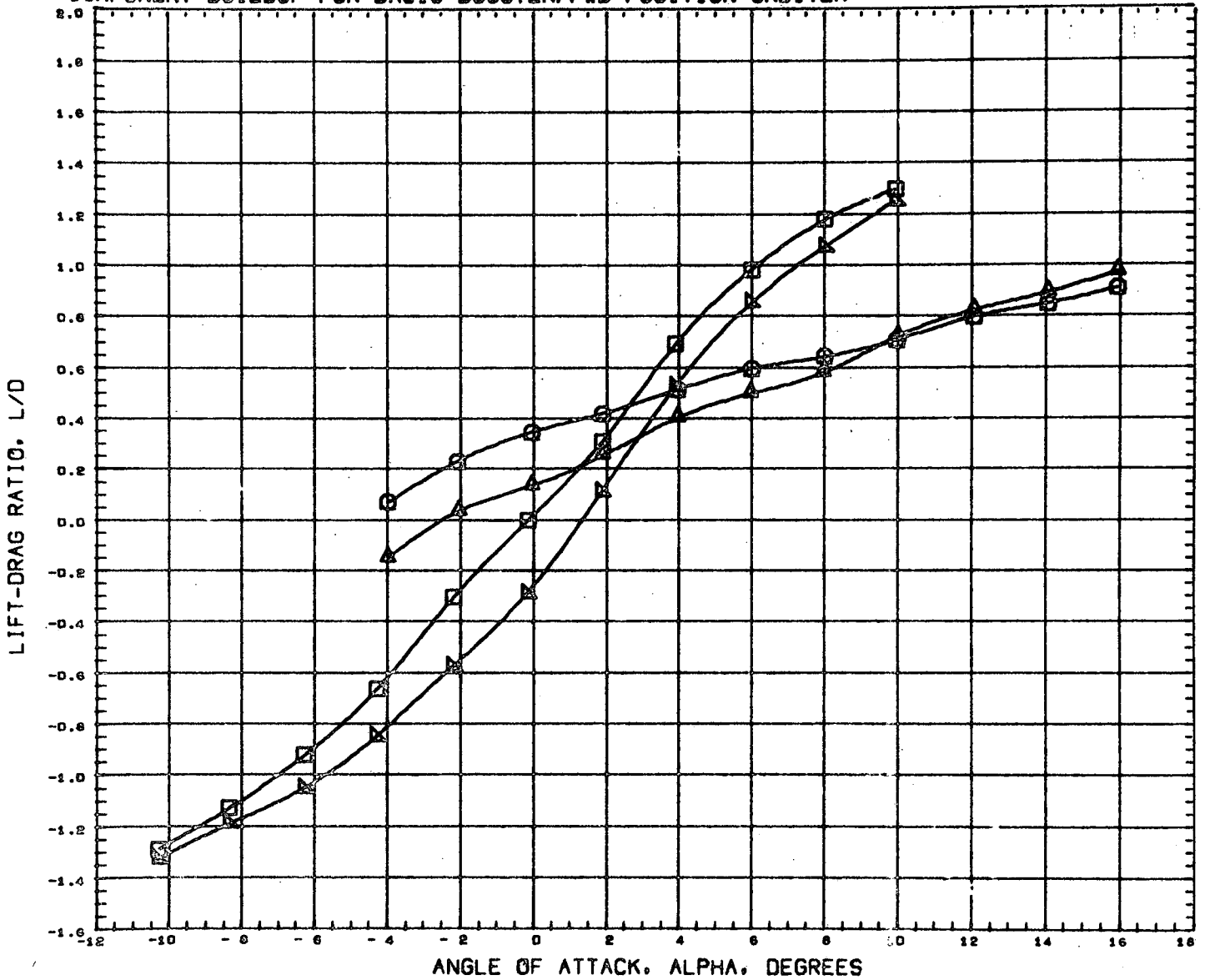
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIHD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003900 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001D)	MSFC 512 GD/C .003906 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5035D)	MSFC 512 GD/C .003938 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XM7P 3.7920 INCHES
(D5037D)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YM7P 0.0000 INCHES
						ZM7P 0.0000 INCHES
						SCALE 0.0034

MACH 8.740

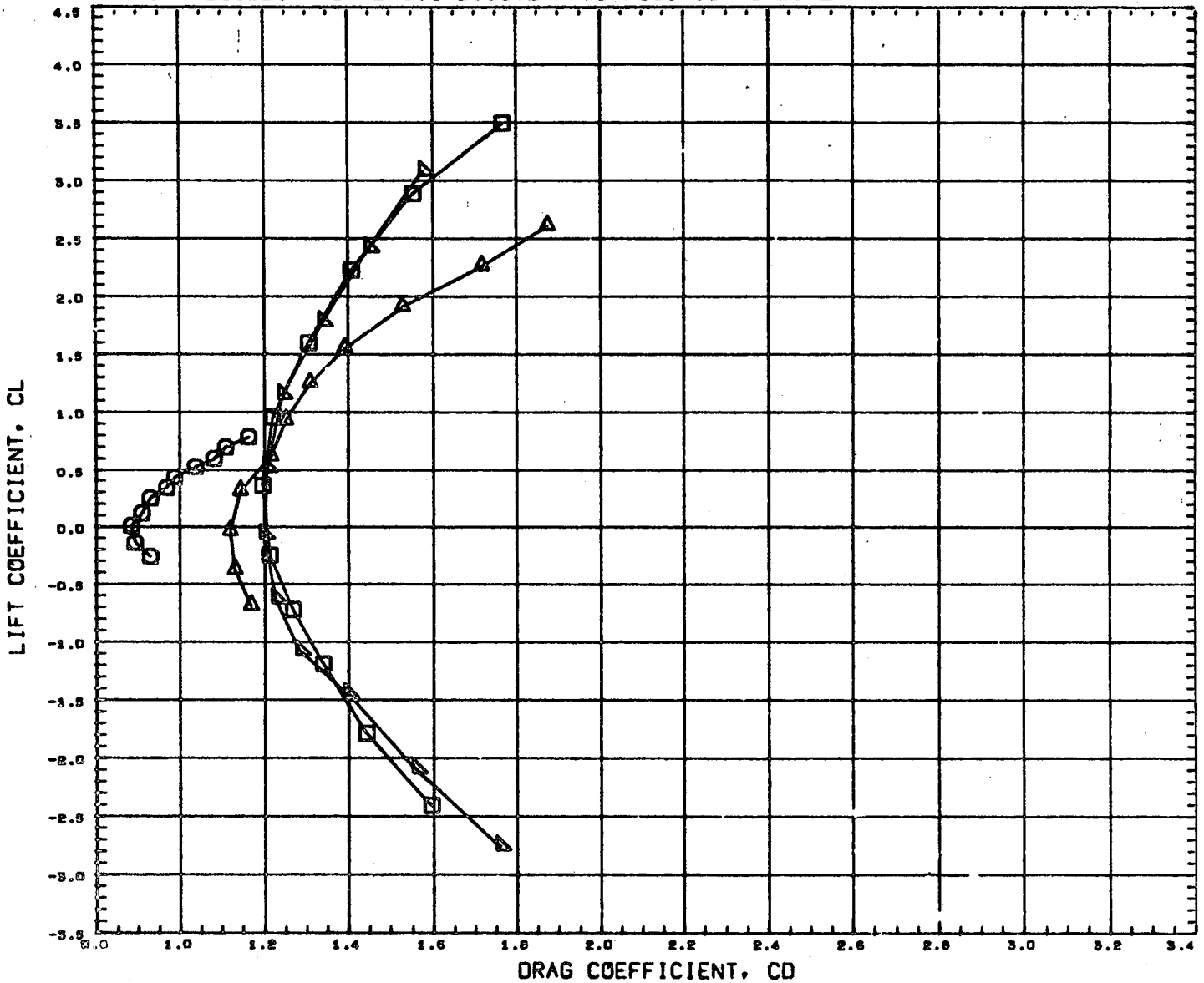
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOO	LFLAP	REFLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 99. IN.
(E9001C)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50390)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.959

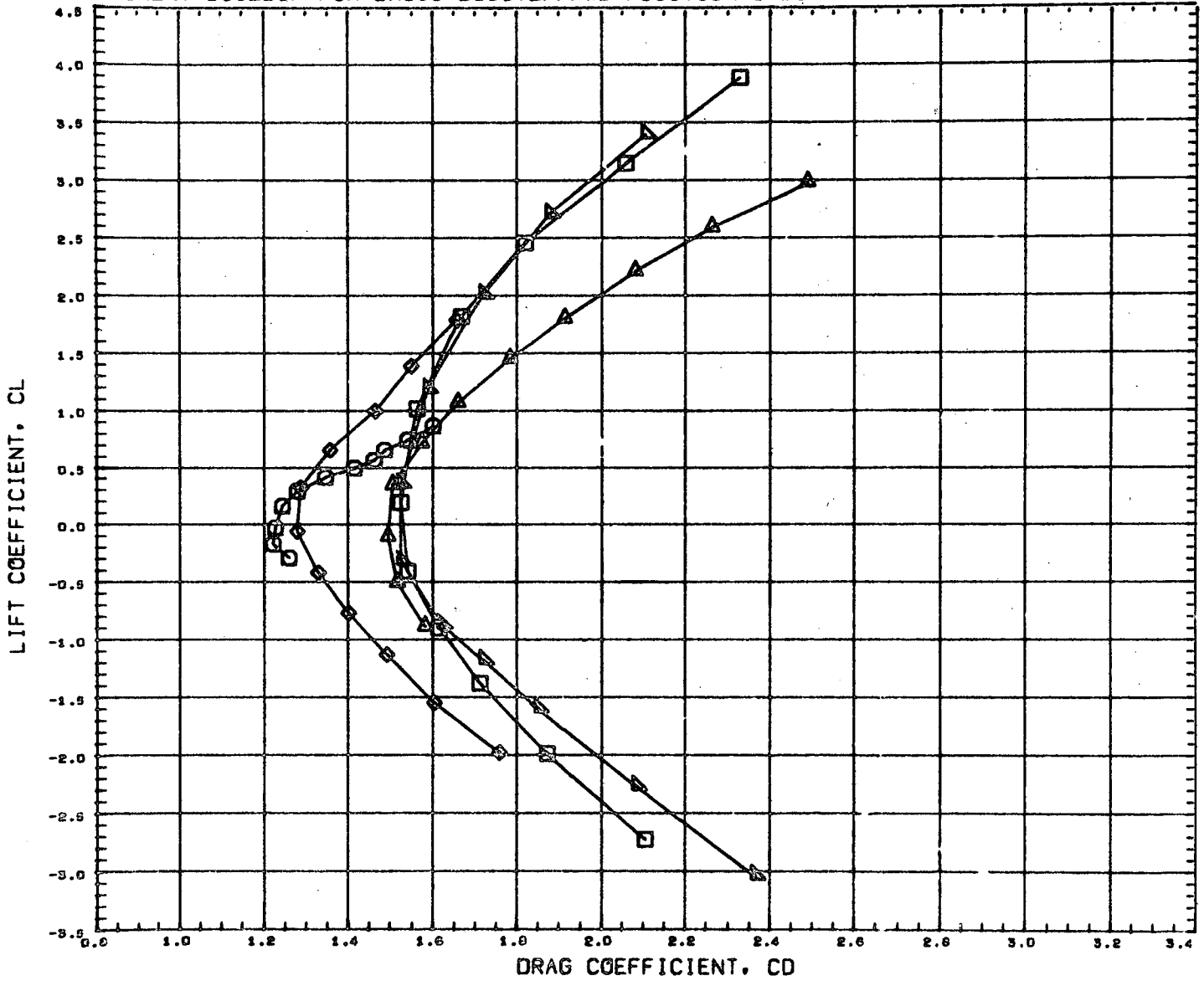
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMCD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T1	0.000	0.000	0.000	0.300	LREF 6.2310 INCHES
(D5032D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5035D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.300	XMRP 3.7920 INCHES
(D5037D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.003

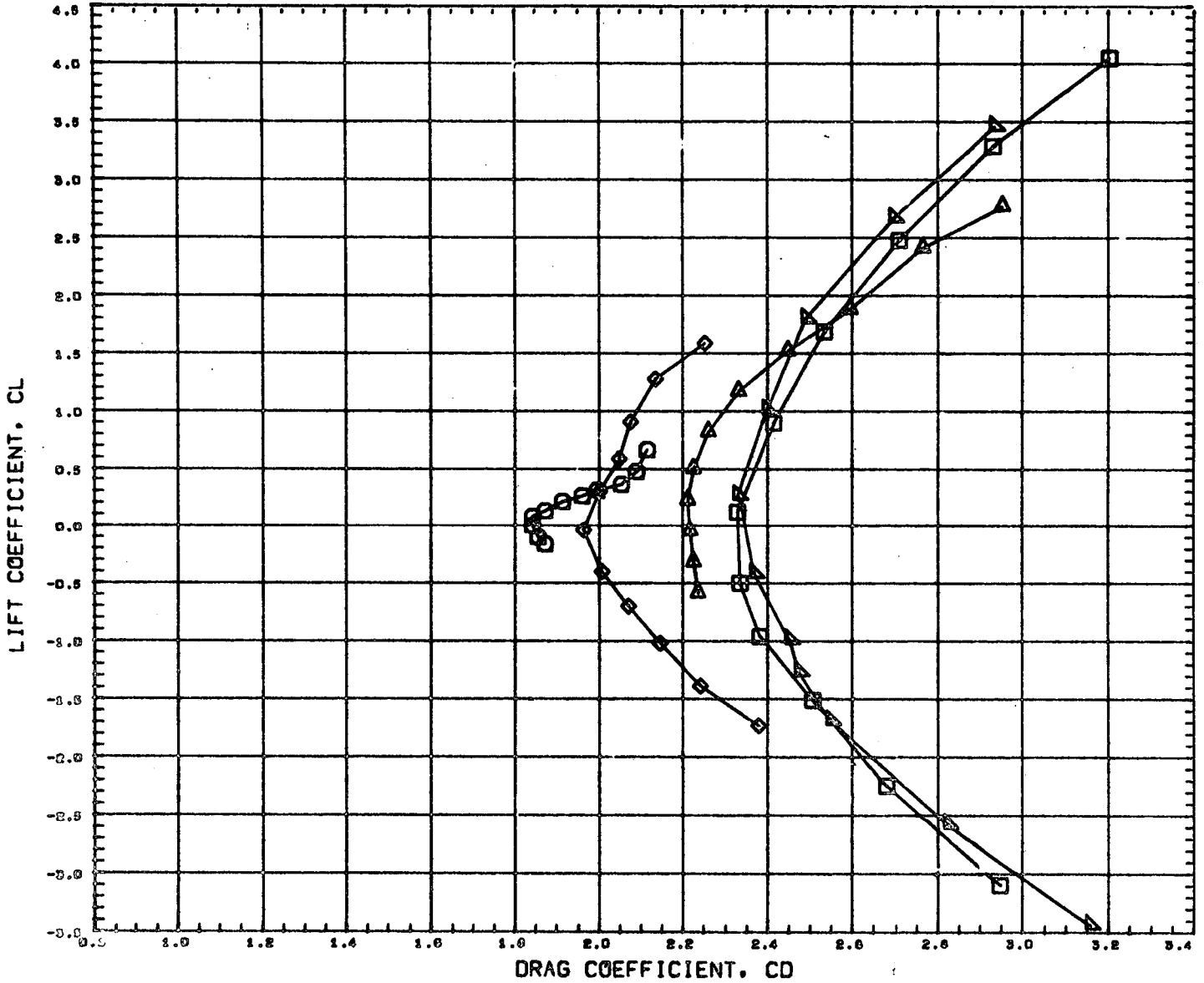
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	F-FLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E50010)	MSFC 512 GD/C .003366 BOOSTER B34R6T1C	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	SREF 1.0910 INCHES
(D50350)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMR7 3.7920 INCHES
(D50370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 0.810

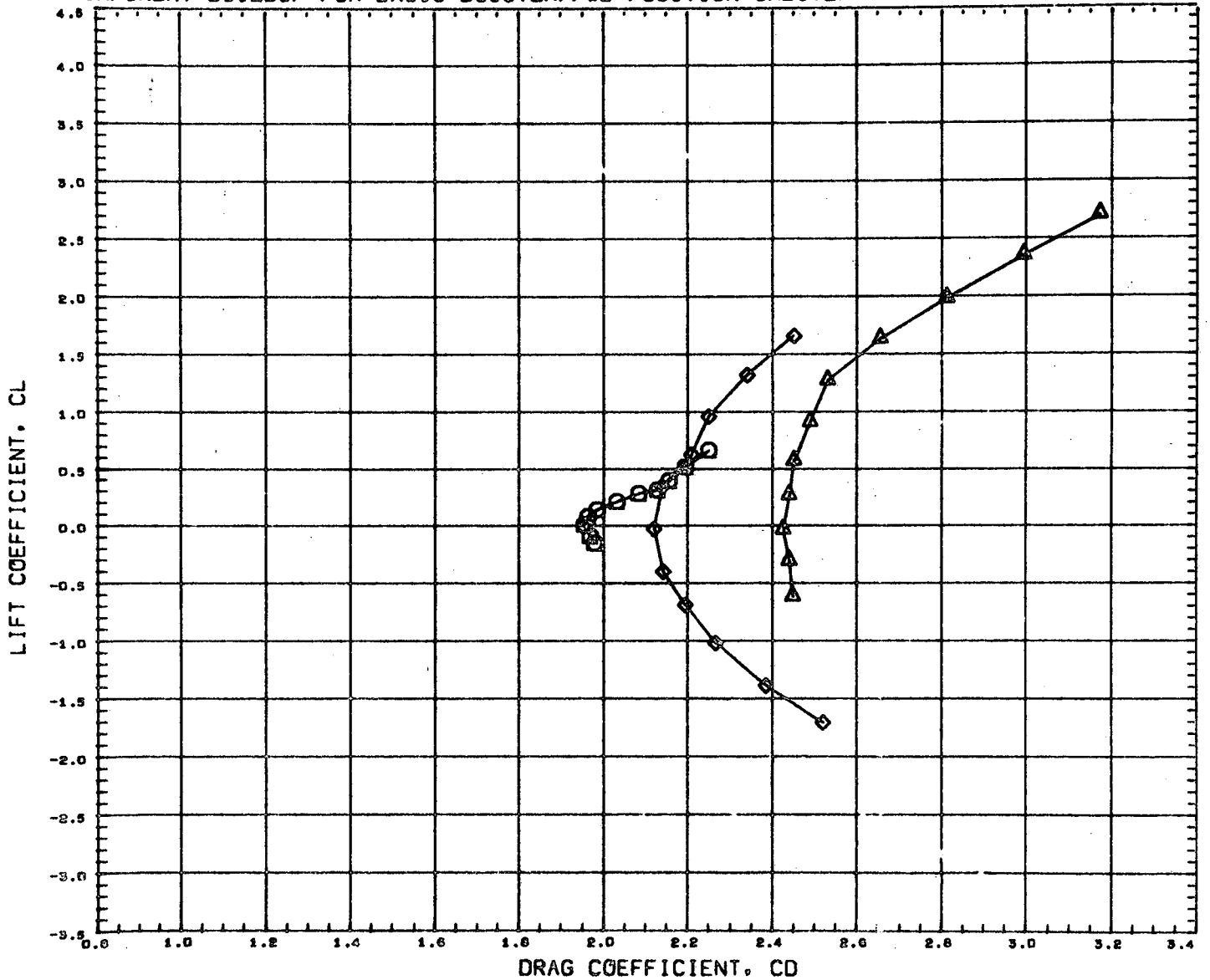
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	HSFC 512 GD/C .003900 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9390 SQ. IN.
(E50010)	HSFC 512 GD/C .003960 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(E50320)	HSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(E50350)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(E50370)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

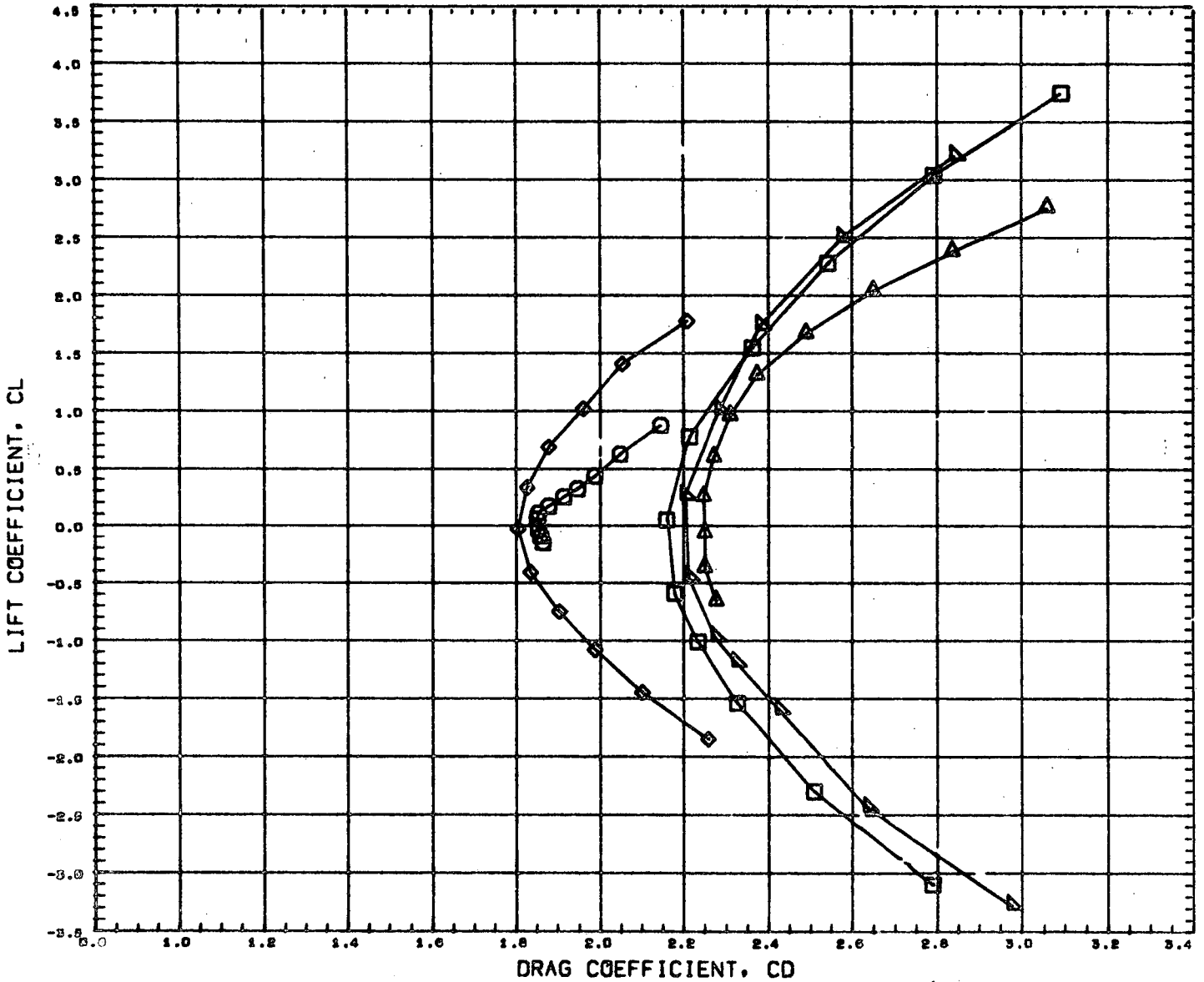
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	FLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 GD/C .003366 BOOSTER B34RG	0.000	45.000			JREF 0.9350 SQ. IN.
(E9001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9032D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D9035D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D9037D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.821

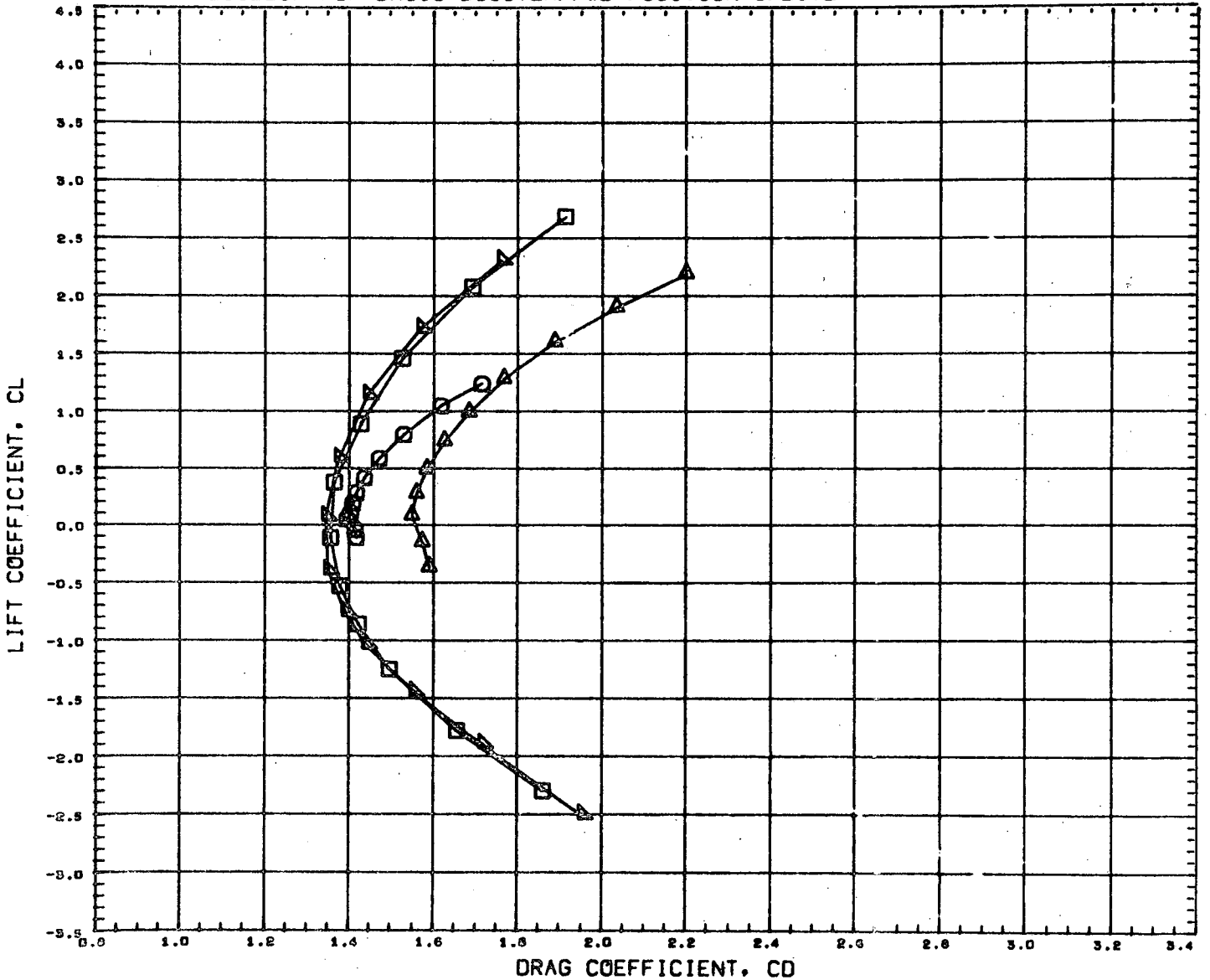
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50110)	MSFC 512 GD/C .003500 BOOSTER B34R6	0.000	45.000			SREF	0.9390 SQ. IN.
(E50010)	MSFC 512 GD/C .003500 BOOSTER B34R6T1C	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
(D50320)	MSFC 512 GD/C .003500 BOOSTER B34R6T1DT3	0.000	0.000	0.000	0.000	SREF	1.0910 INCHES
(D50350)	MSFC 512 GD/C .003500 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	XMR	3.7920 INCHES
(D50370)	MSFC 512 GD/C .003500 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.450

COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER

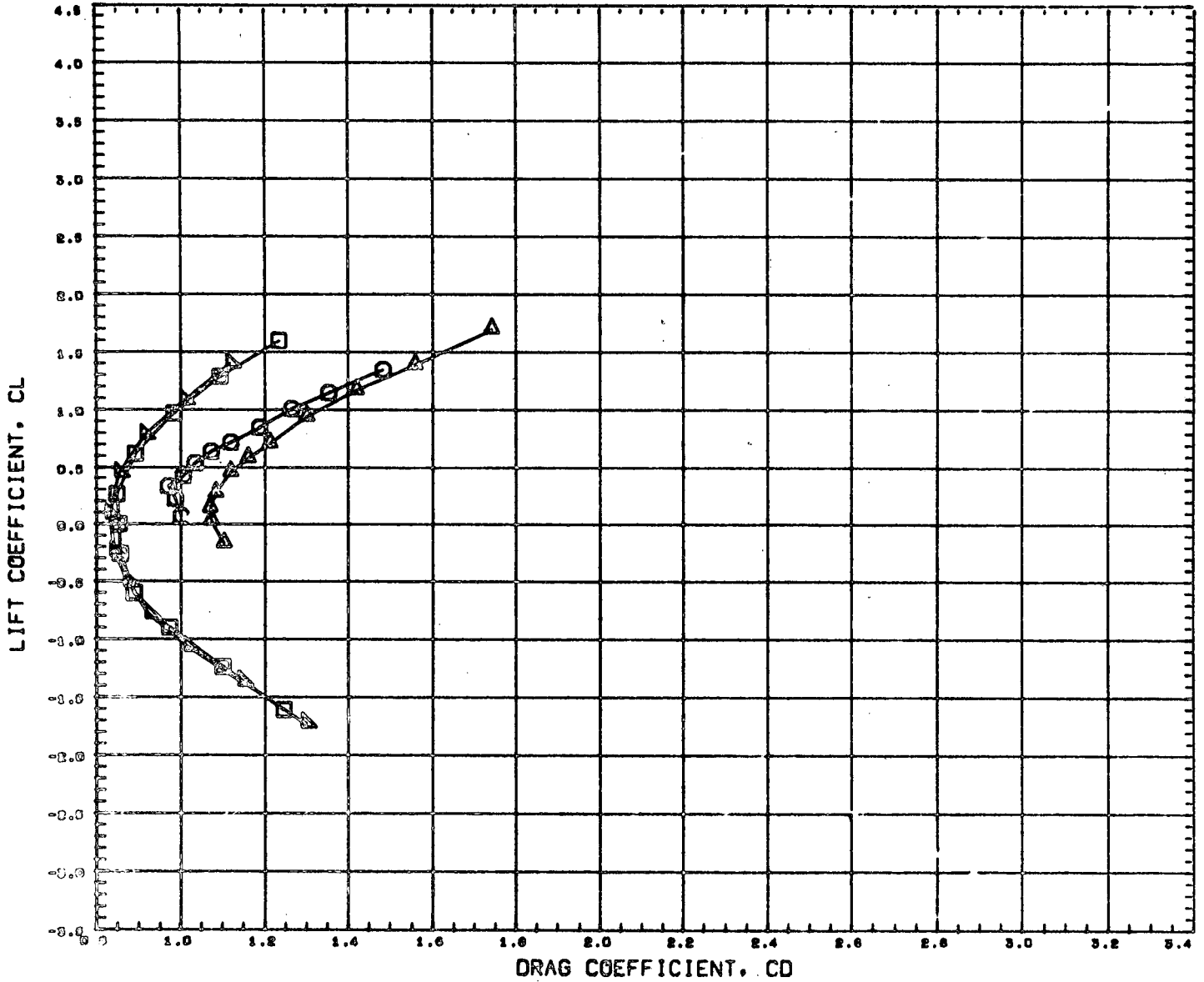


DRAG COEFFICIENT, CD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T1"	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D5035D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5037D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

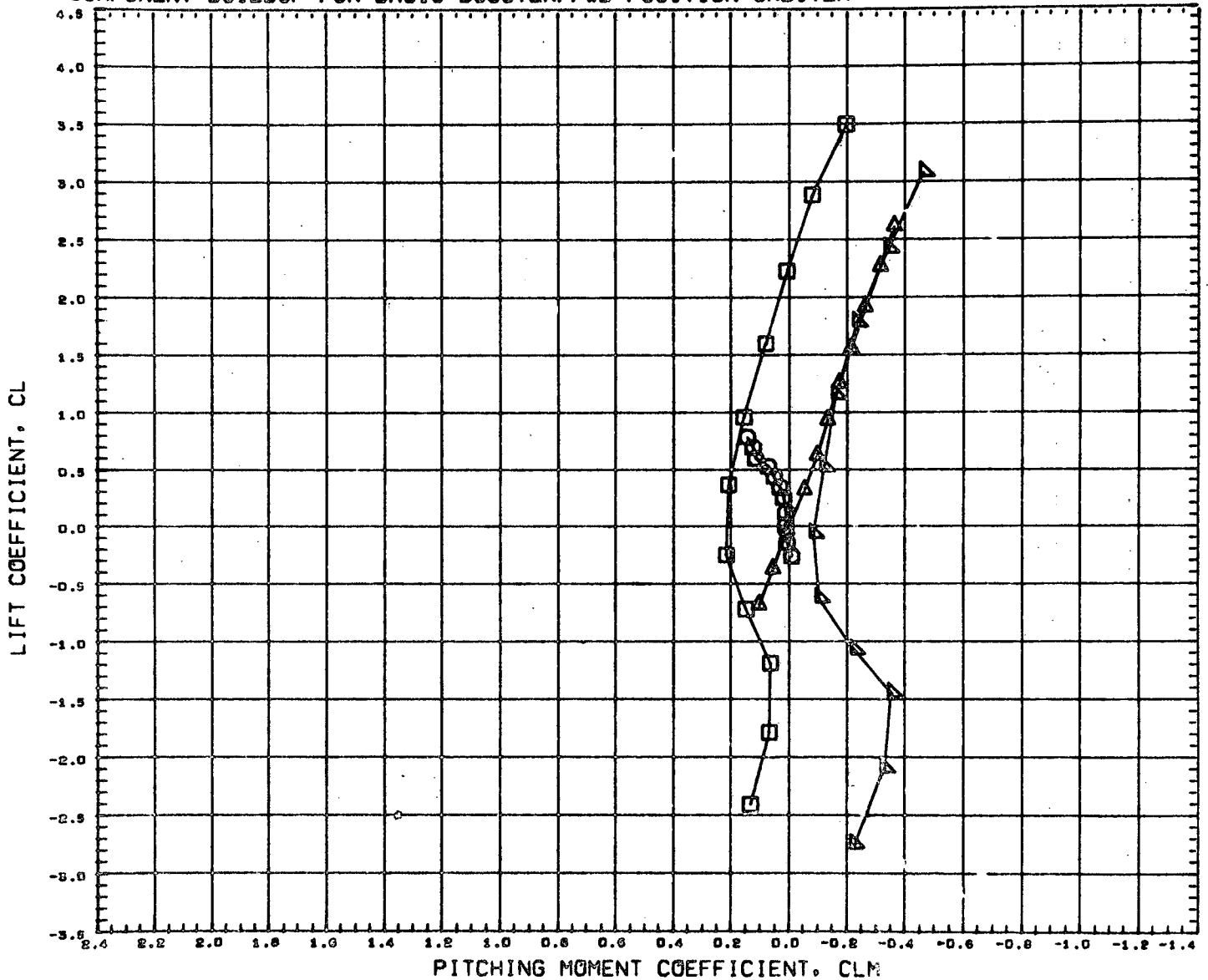
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E80810)	MOFC 812 6D/C .003500 BOOSTER B34RS	0.000	45.000			BREF 0.9350 50.1N.
(E80810)	MOFC 812 6D/C .003500 BOOSTER B34RGT10 *	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50880)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50880)	MOFC 812 6D/C .003500 BOOSTER/ORB. B34RGT1002T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50870)	MOFC 812 6D/C .003500 BOOSTER/ORB. B34RGT1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

PAGE 4.080

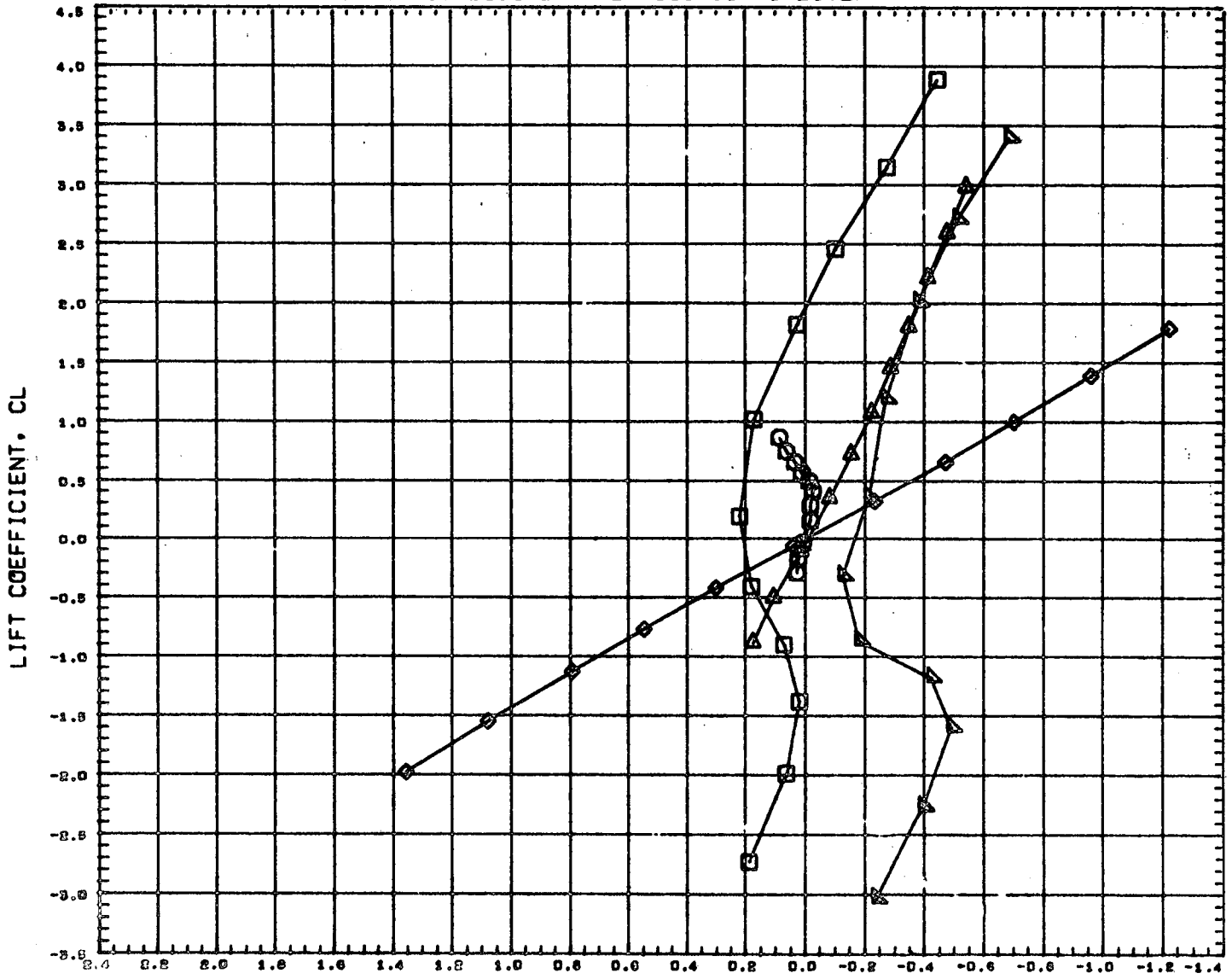
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 89. IN.
(E5001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T17	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50350)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1002T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50370)	MSFC 512 GD/C .003366 BOOSTER/ORD. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.633

COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER

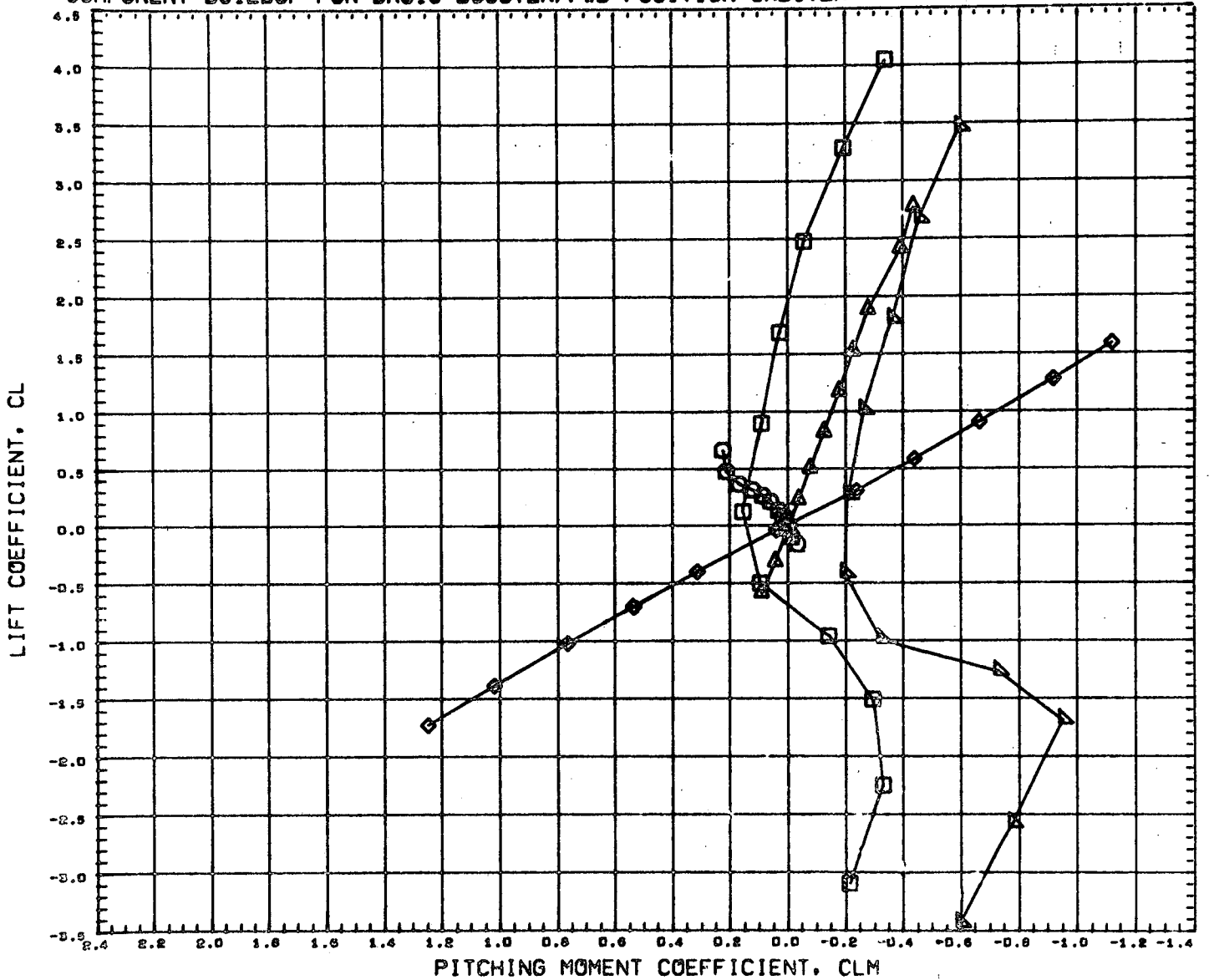


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5031D)	MSPC 512 GD/C .003366 BOOSTER B34R0	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001D)	MSPC 512 GD/C .003366 BOOSTER B34R6T1C	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	MSPC 512 GD/C .003366 BOOSTER B34R6T1D73	0.000	0.000	0.000	0.000	SREF 1.0910 INCHES
(D5035D)	MSPC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	U.000	XNA? 3.7920 INCHES
(D5037D)	MSPC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRF 0.0000 INCHES
						ZMRF 0.0000 INCHES
						SCALE 0.0034

MACH 0.930

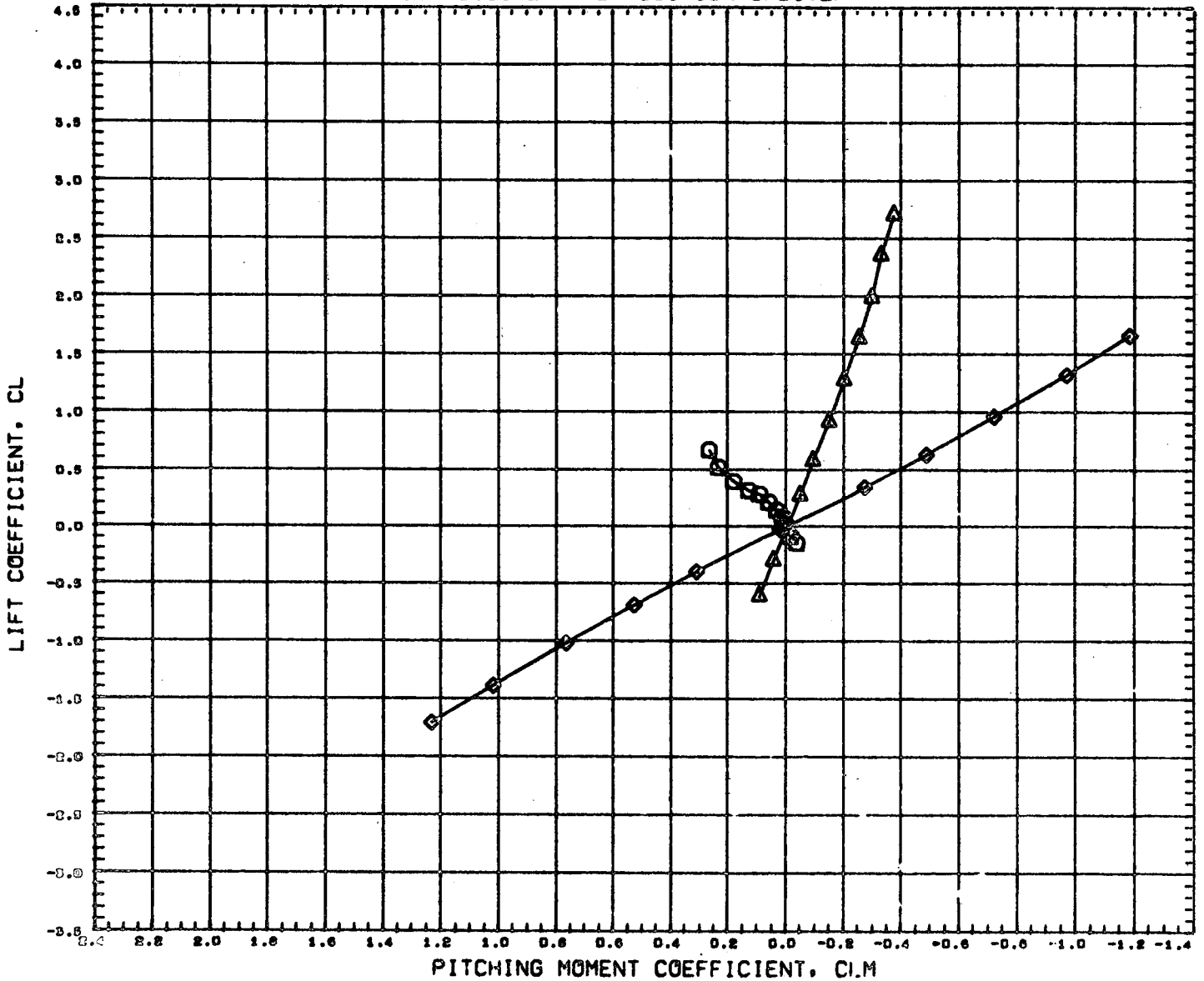
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	MSFC 512 GD/C .003360 BOOSTER B34R6	0.000	45.000			XREF 0.9350 SQ. IN.
(E90010)	MSFC 512 GD/C .003366 BOOSTER B34R6T1 ⁿ	0.000	0.000			LREF 6.2310 INCHES
(D90320)	MSFC 512 GD/C .003368 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0810 INCHES
(D90390)	MSFC 512 GD/C .003368 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.500	XWFP 3.7920 INCHES
(D90370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

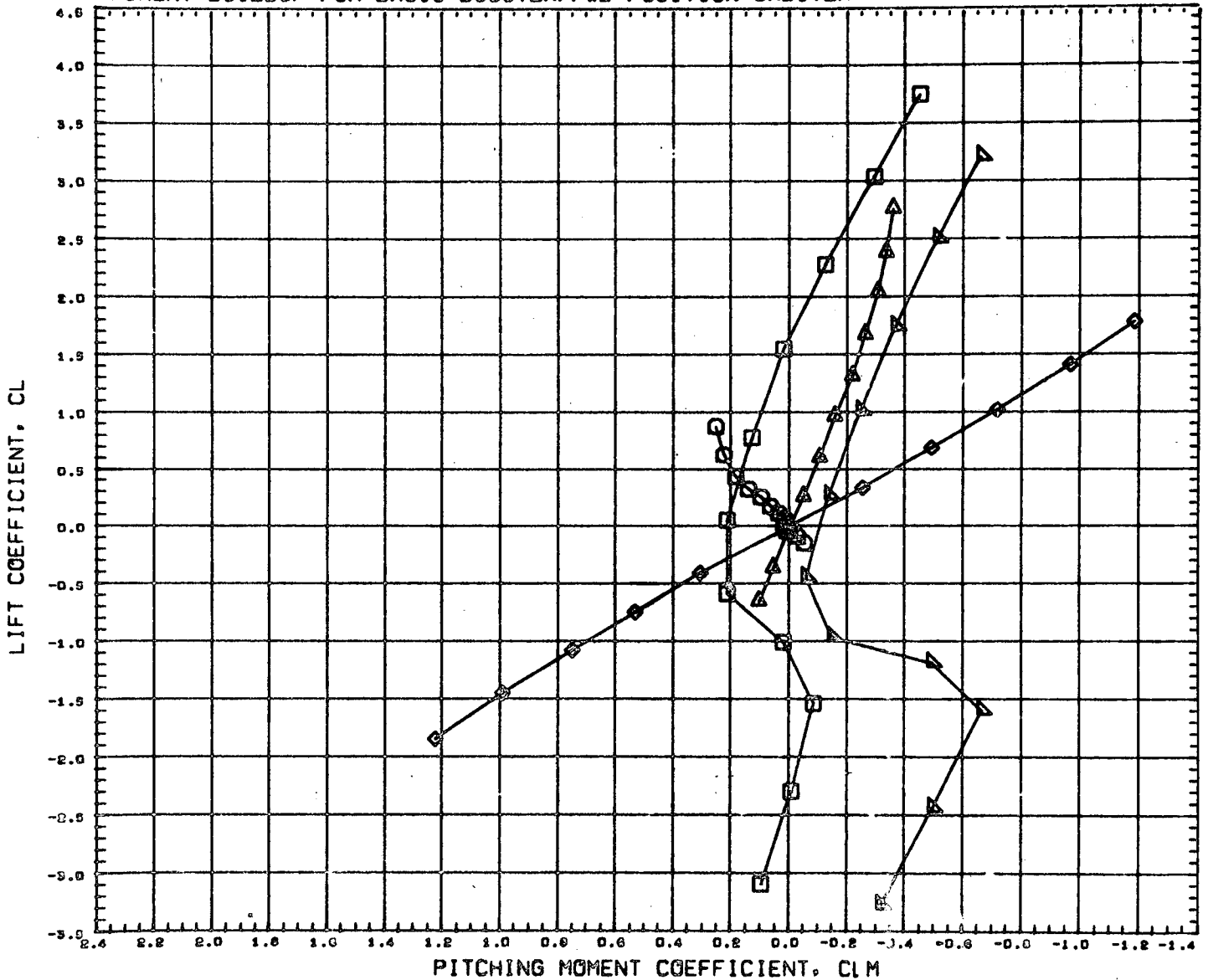
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	MBFC 312 GD/C .003366 BOOSTER B34R6	0.000	45.000			WREF 0.9350 SQ. IN.
(E90010)	MBFC 312 GD/C .003366 BOOSTER B34R6710	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90520)	MBFC 312 GD/C .003366 BOOSTER B34R6710T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90350)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMR? 3.7920 INCHES
(D90370)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.801

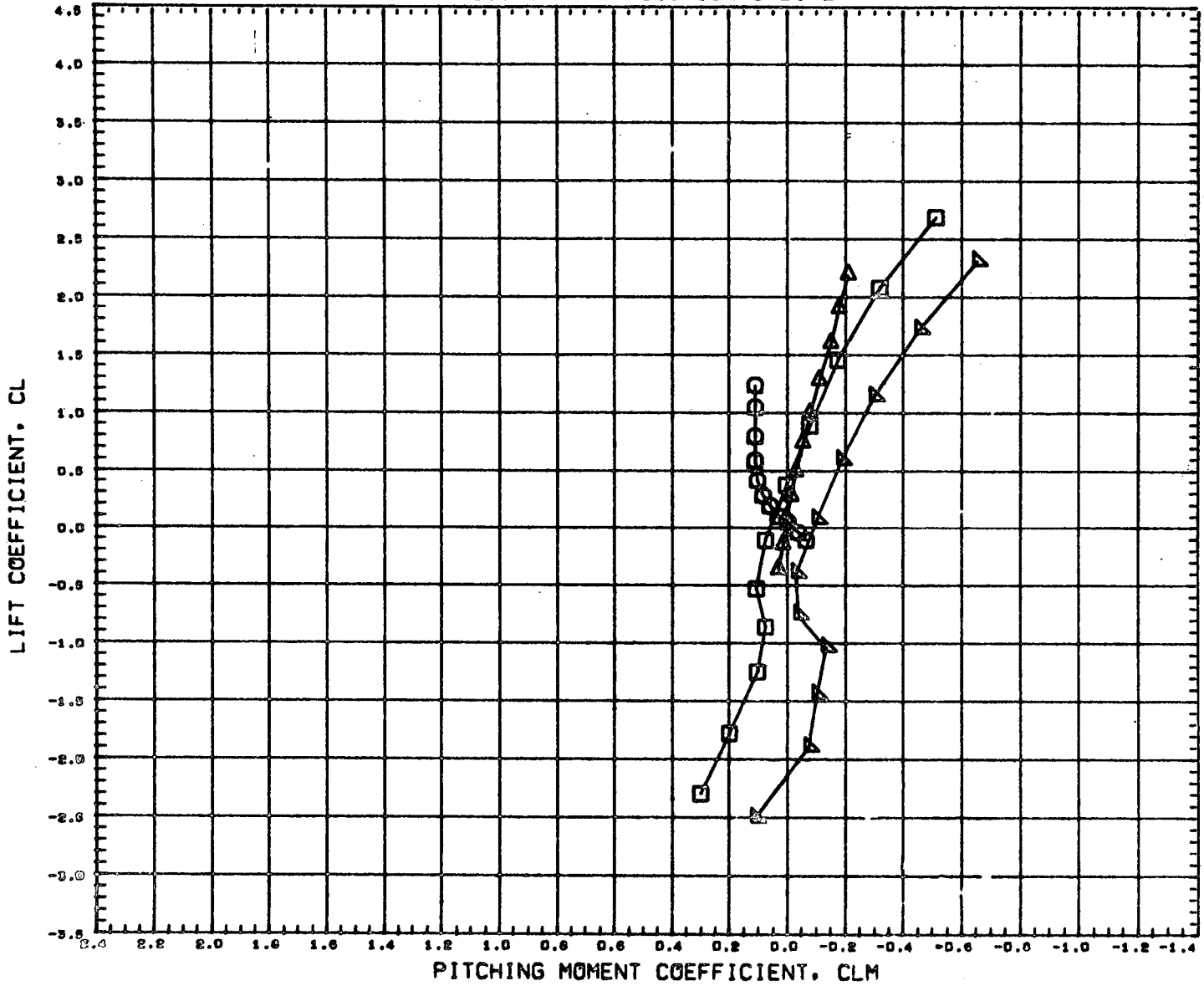
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMCO	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E5001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50350)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.450

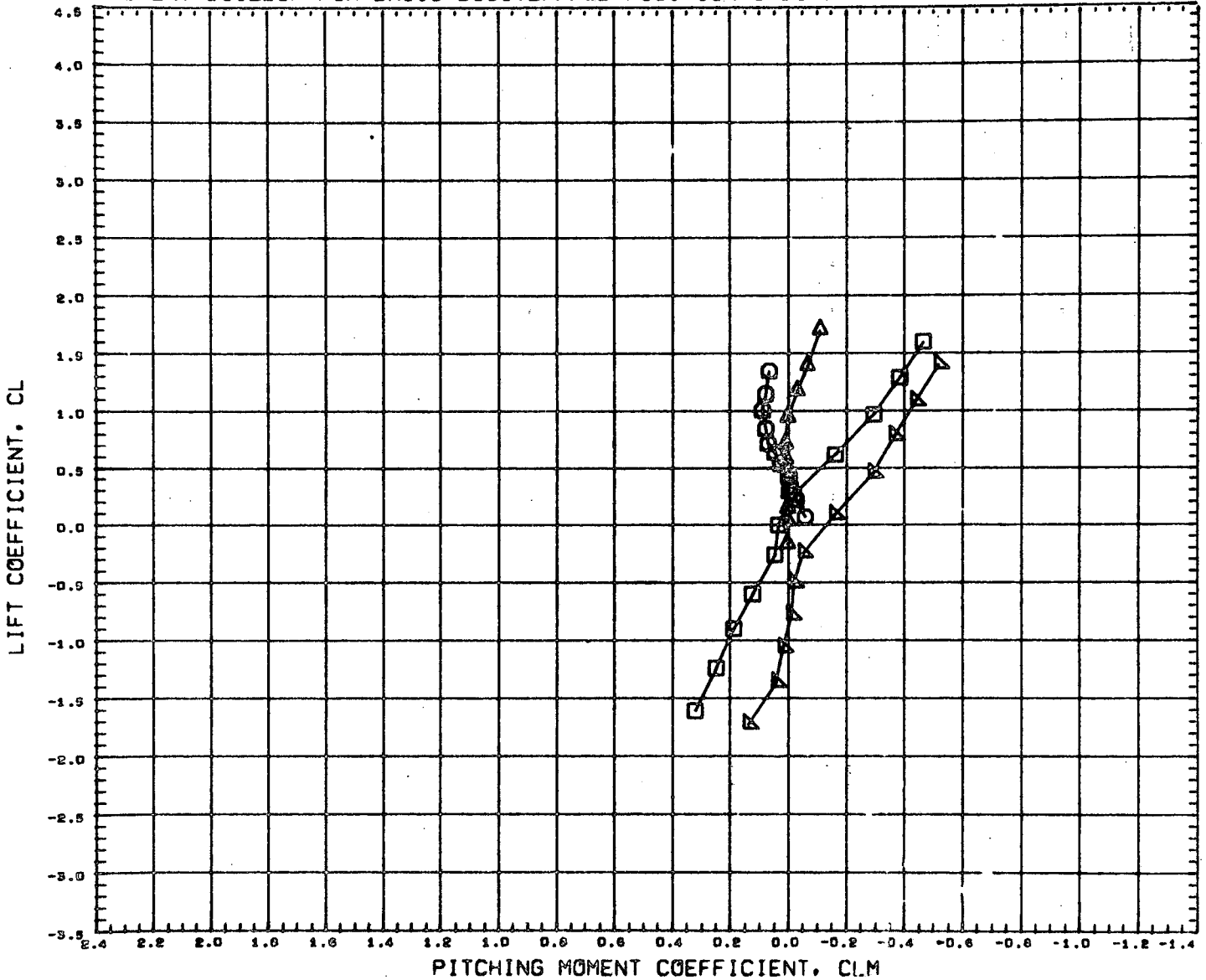
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 6D/C .003308 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E9001D)	MSFC 512 6D/C .003300 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D80320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 1.0910 INCHES
(D80350)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(D90370)	MSFC 512 6D/C .003306 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034

MACH 2.740

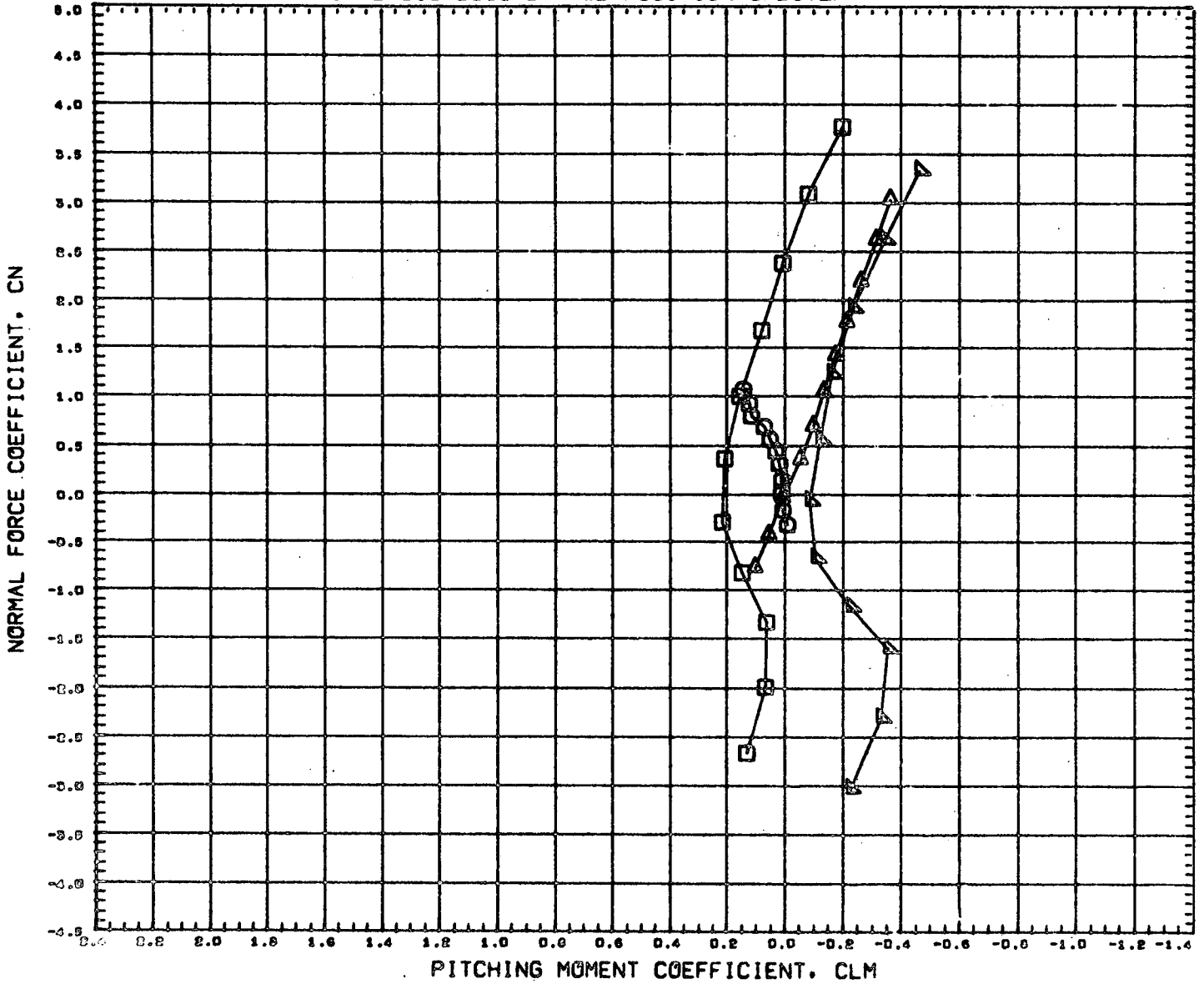
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	HSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 SQ. IN.
(E50010)	HSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50350)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50370)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.950

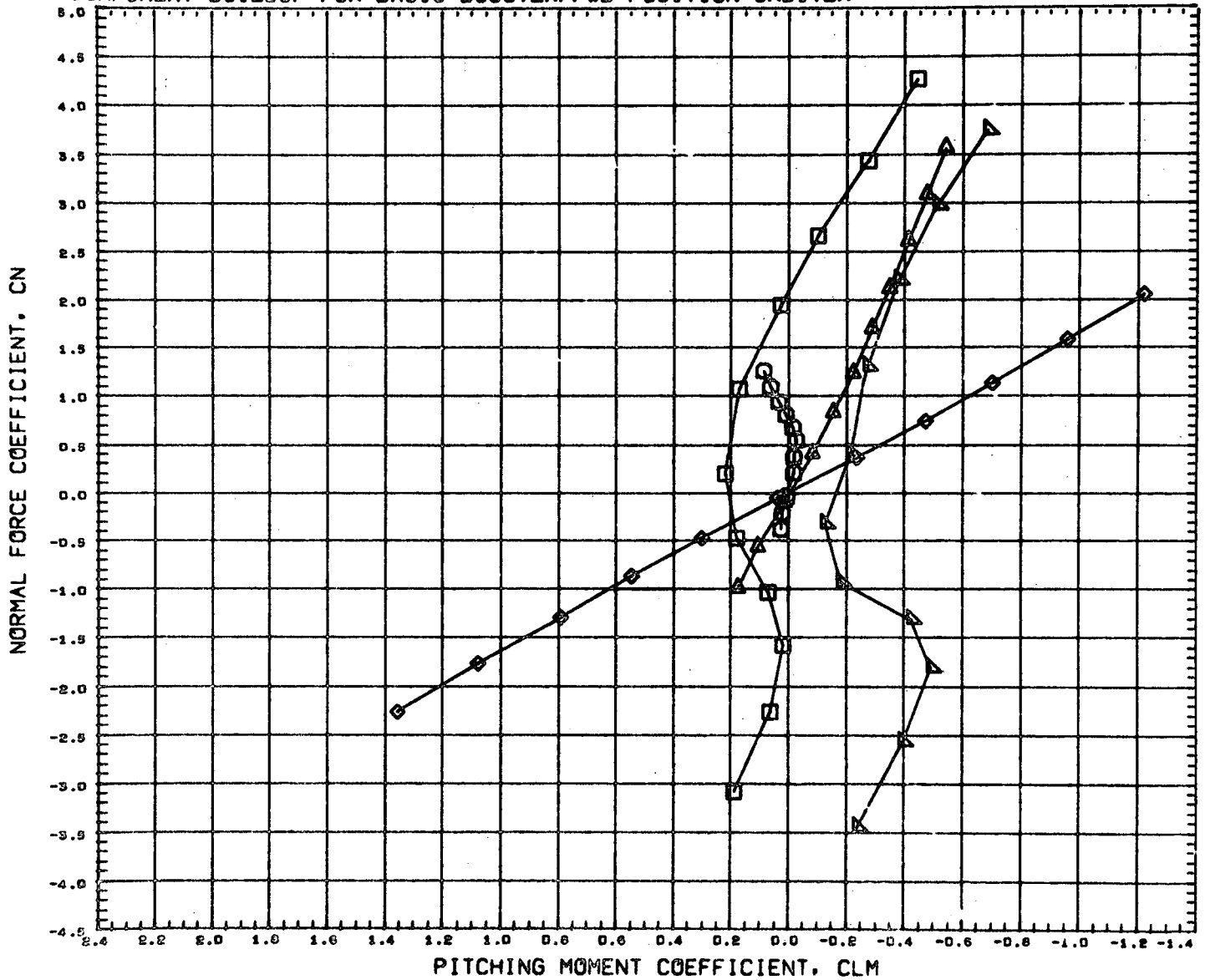
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	MSFC 512 GD/C .003306 BOOSTER B34R6	0.000	45.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E50010)	MSFC 512 GD/C .003306 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 1.0910 INCHES
(D50350)	MSFC 512 GD/C .003306 BOOSTER/ORB. B34R6T1002T9	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50370)	MSFC 512 GD/C .003306 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.603

COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER

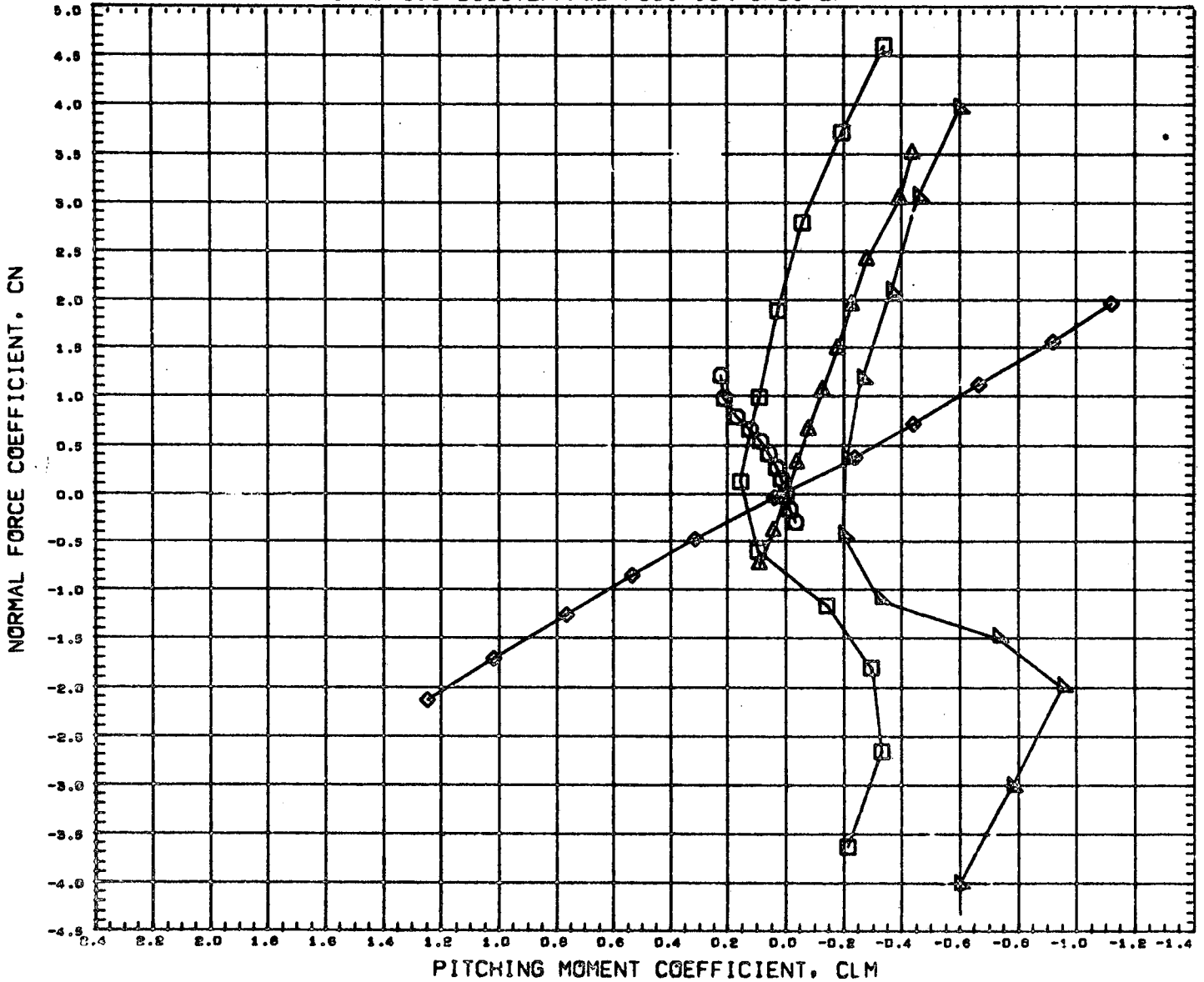


PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	M8FC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			BREF 0.9350 SQ. IN.
(E9001D)	M8FC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90320)	M8FC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	RREF 1.0910 INCHES
(D90390)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	XNRP 3.7920 INCHES
(D90370)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YNRP 0.0000 INCHES ZNRP 0.0000 INCHES SCALE 0.0034

MACH 0.001

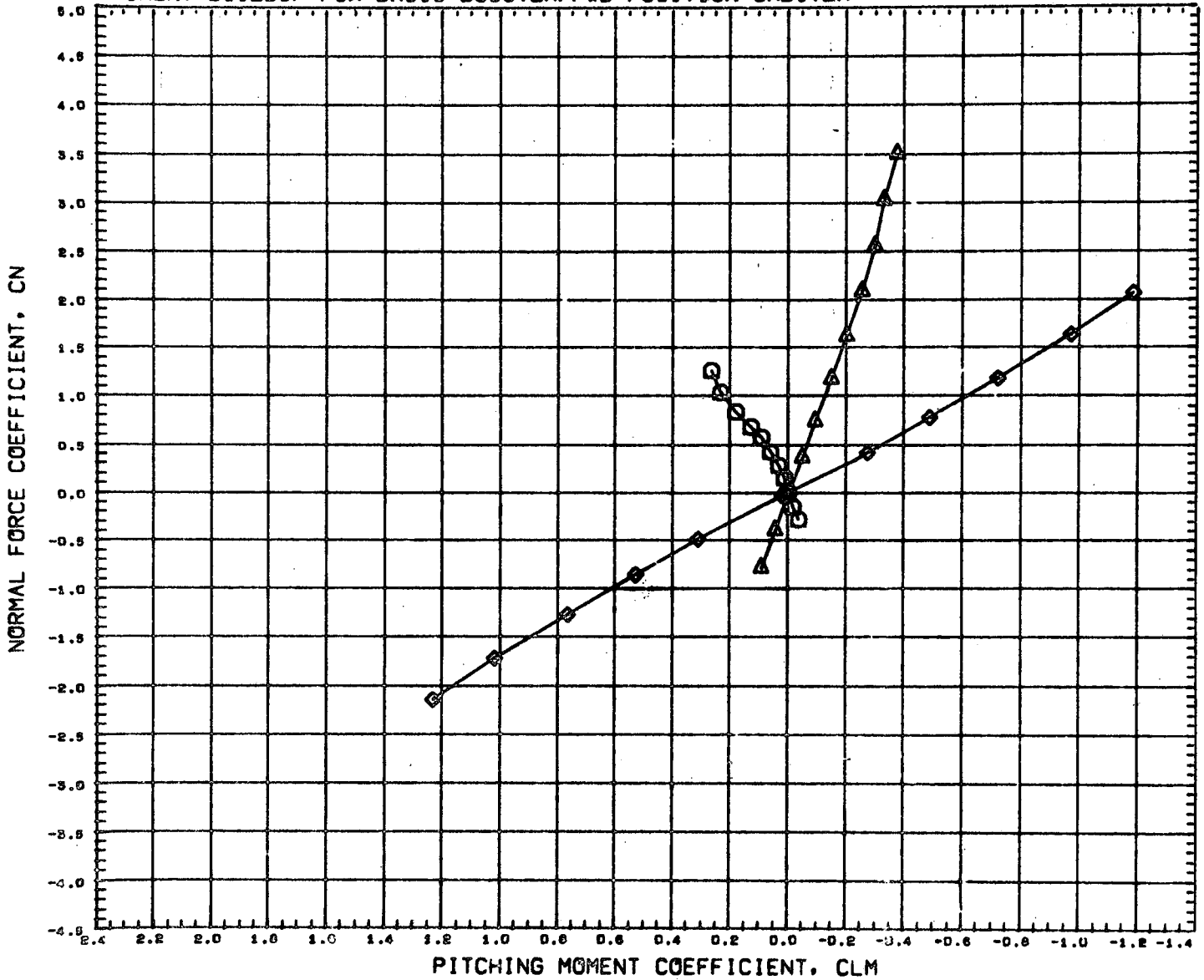
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50110)	NSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9360 SQ. IN.
(E50010)	NSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D50320)	NSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D50350)	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D50370)	NSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.100

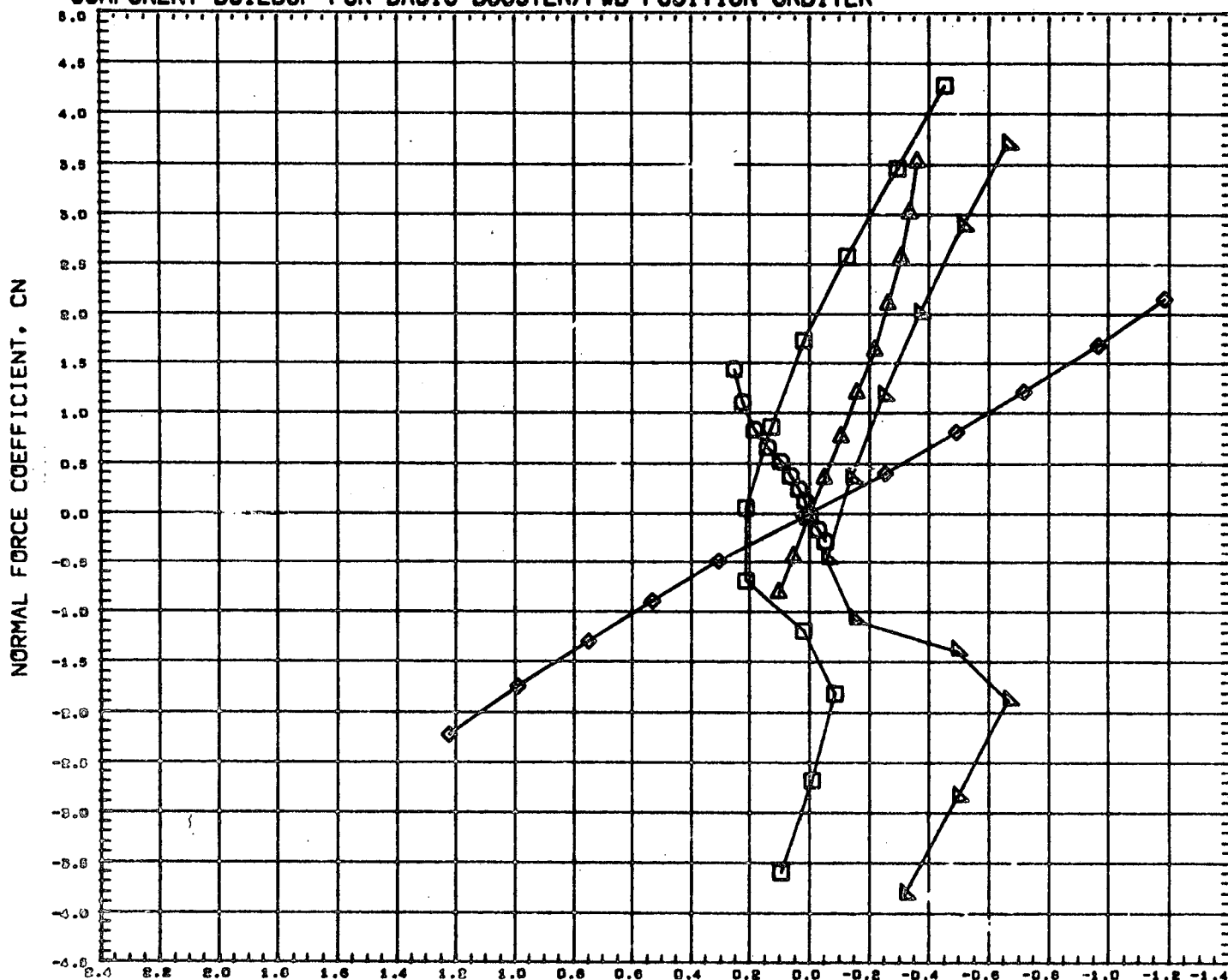
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E5011D)	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			SREF 0.9350 80. IN.
(E5001D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D5032D)	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	SREF 1.0910 INCHES
(D5035D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D5037D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

HACH 1.201

COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER

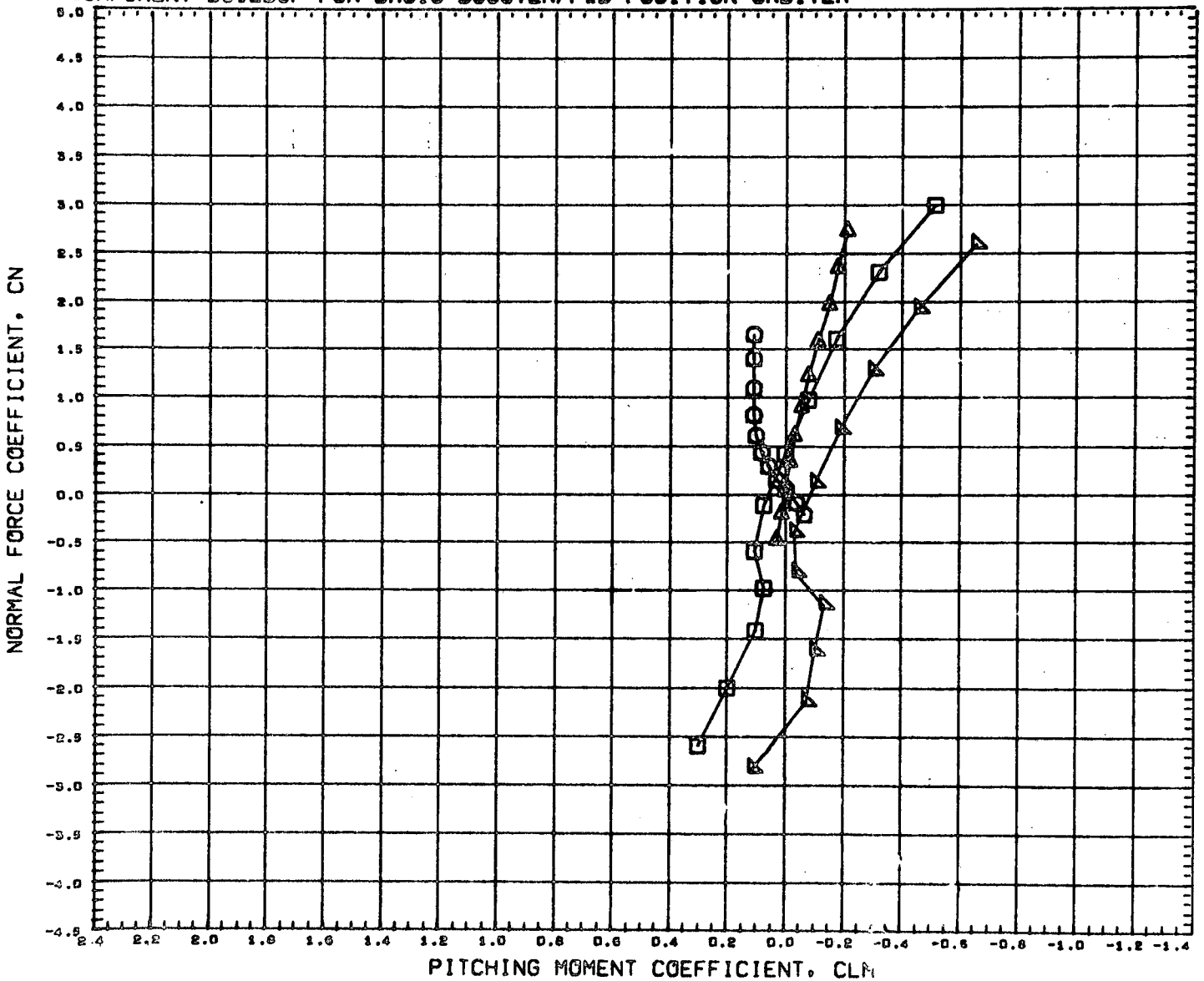


PITCHING MOMENT COEFFICIENT, CLM

DATA KEY	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90110)	□	MSFC 512 GD/C .003366 BOOSTER B34R6	0.000	45.000			bREF 0.9350 80. IN.
(E90010)	□	MSFC 512 GD/C .003366 BOOSTER B34R6T10	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D90520)	△	MSFC 512 GD/C .003366 BOOSTER B34R6T10T3	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D90550)	△	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	XMR 3.7920 INCHES
(D90570)	△	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T10O2T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 1.450

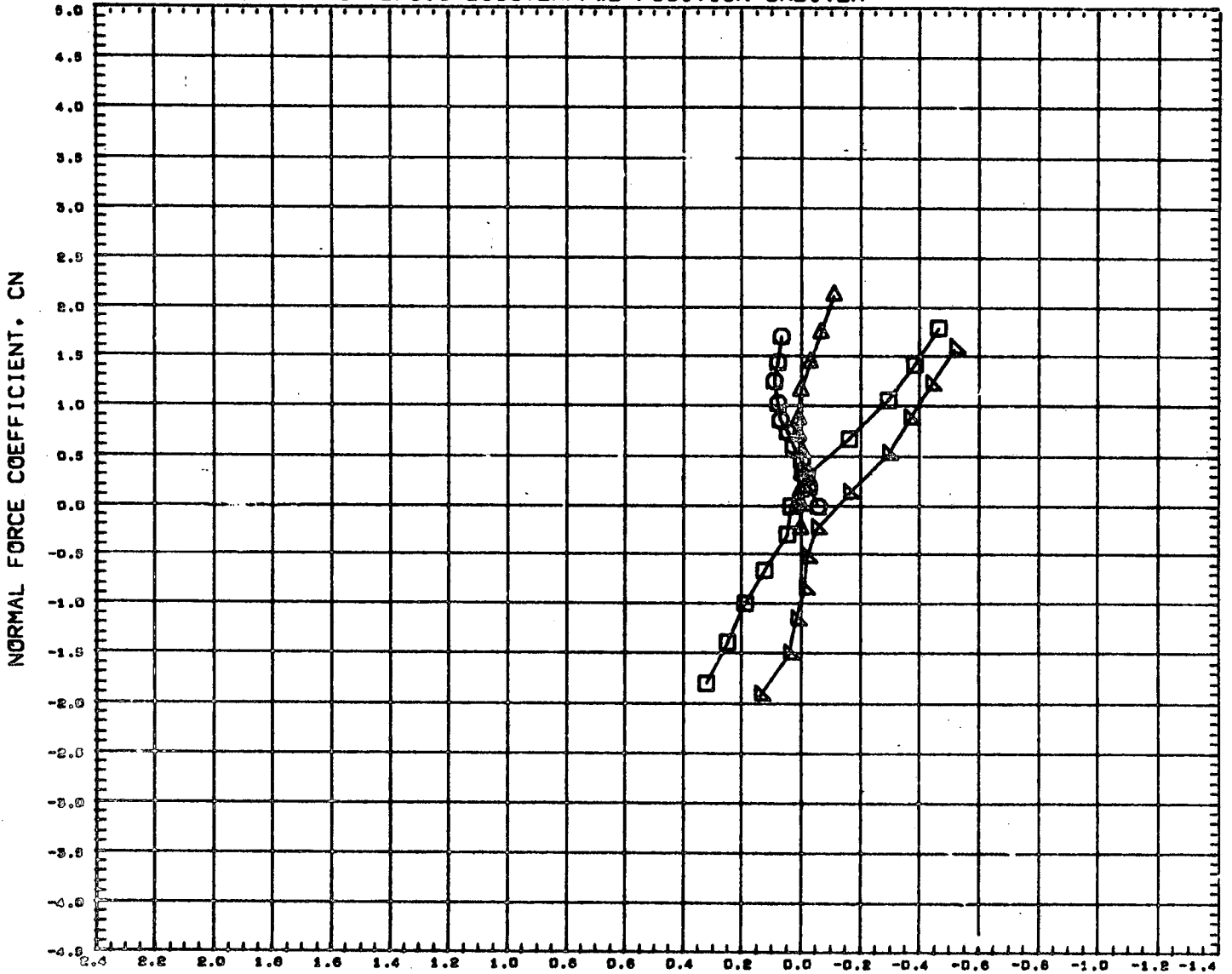
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	MSFC 512 GD/C .003966 BOOSTER B34R6	0.000	45.000			SREF 0.9350 30. IN.
(E9001D)	MSFC 512 GD/C .003966 BOOSTER B34R6T1U	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9032D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.300	0.000	0.000	0.000	BREF 1.0910 INCHES
(D9035D)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D9037D)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER

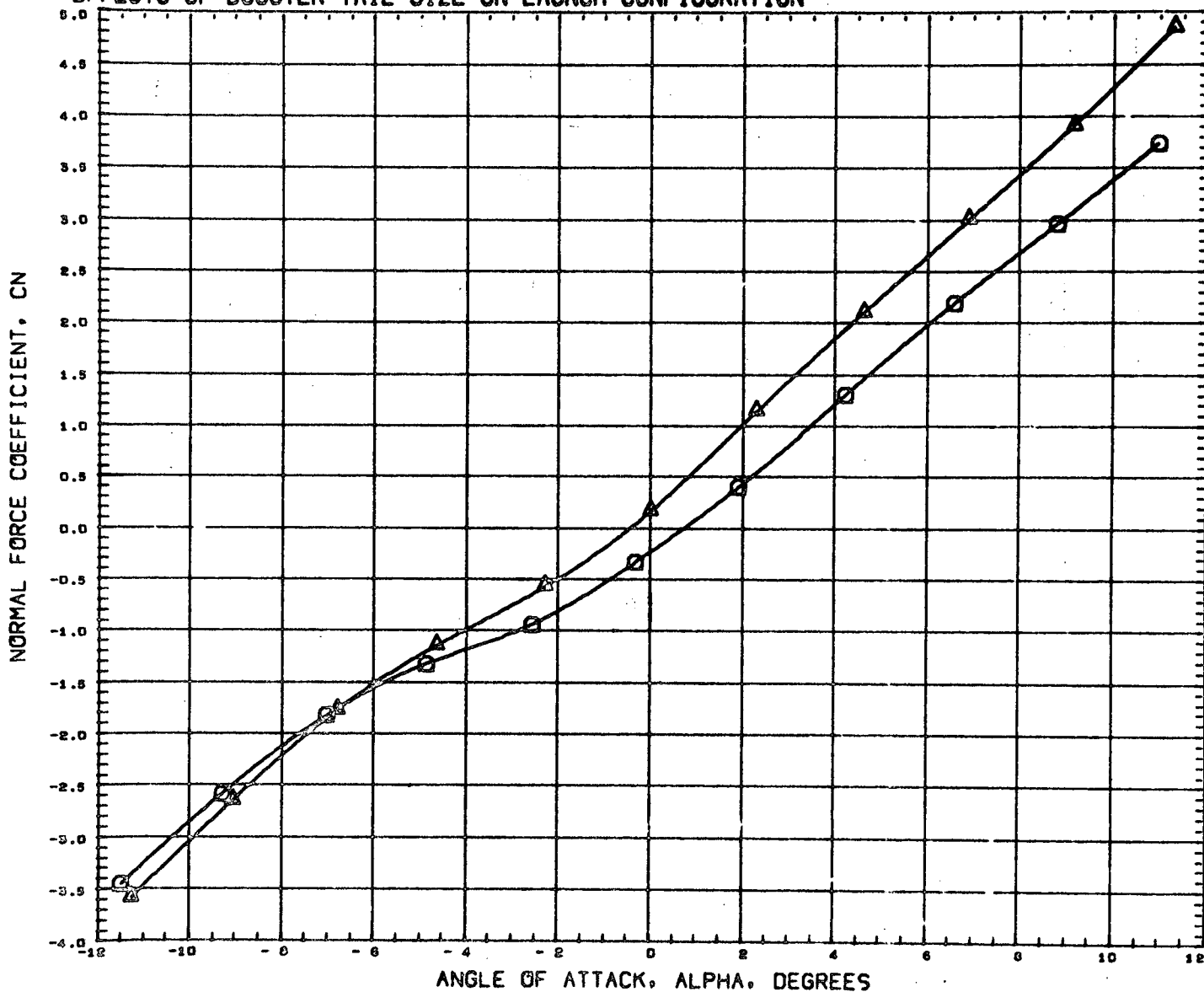


PITCHING MOMENT COEFFICIENT, CLM

DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E9011D)	MBFC 912 GD/C .009368 BOOSTER B34R6	0.000	45.000			SKEF 0.9350 SQ. IN.
(E9001D)	MBFC 912 GD/C .009368 BOOSTER B34R6T1D	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
(D9035D)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 1.0910 INCHES
(D9035D)	MBFC 912 GD/C .009368 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	XMRP 3.7920 INCHES
(D9037D)	MBFC 912 GD/C .009368 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACW 4.959

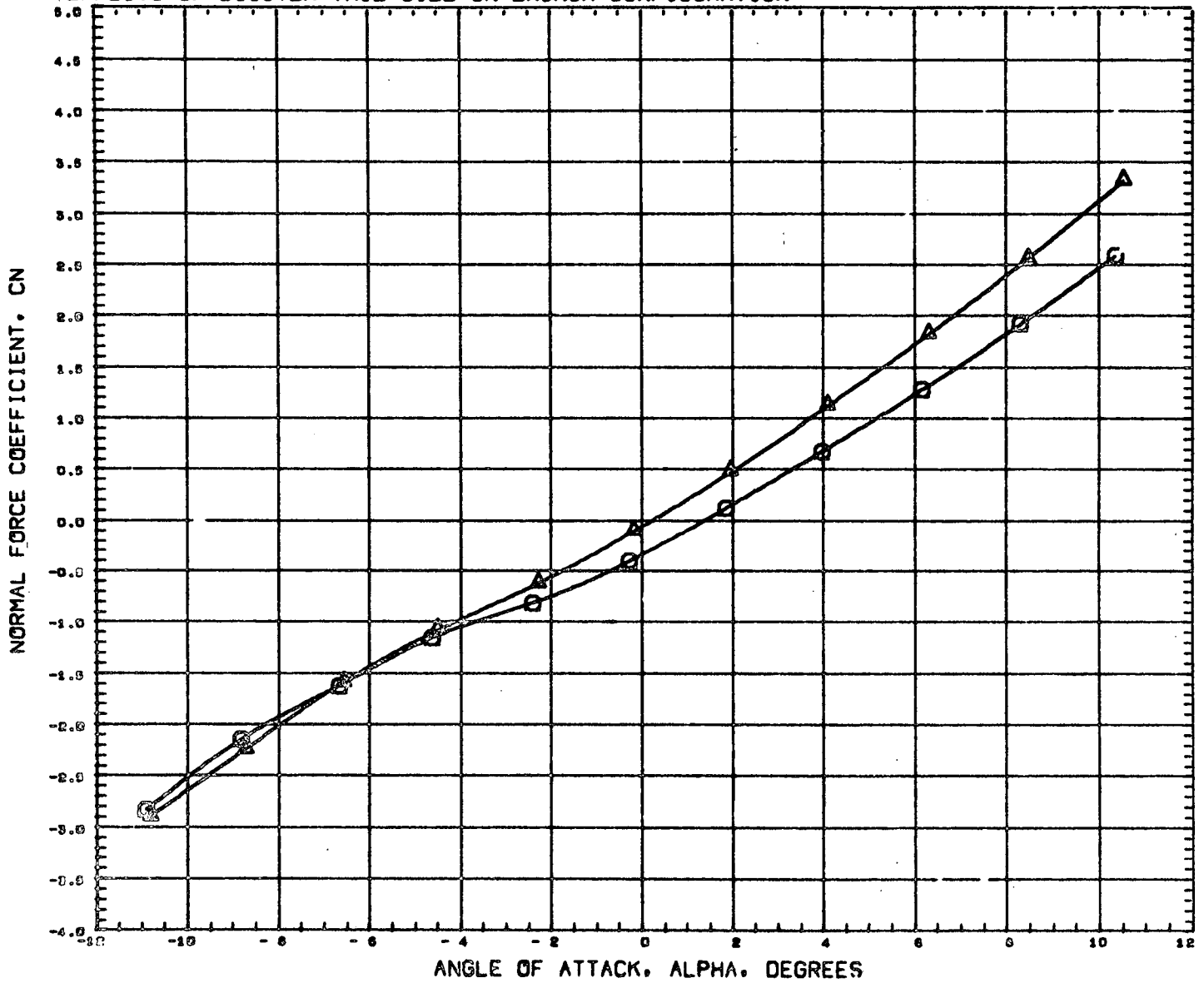
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMCD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	3.000	bREF	0.9350 SQ. IN.
(E50400)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	3.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						YMRP	3.7920 INCHES
						ZMRP	0.0000 INCHES
						ZWRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.900

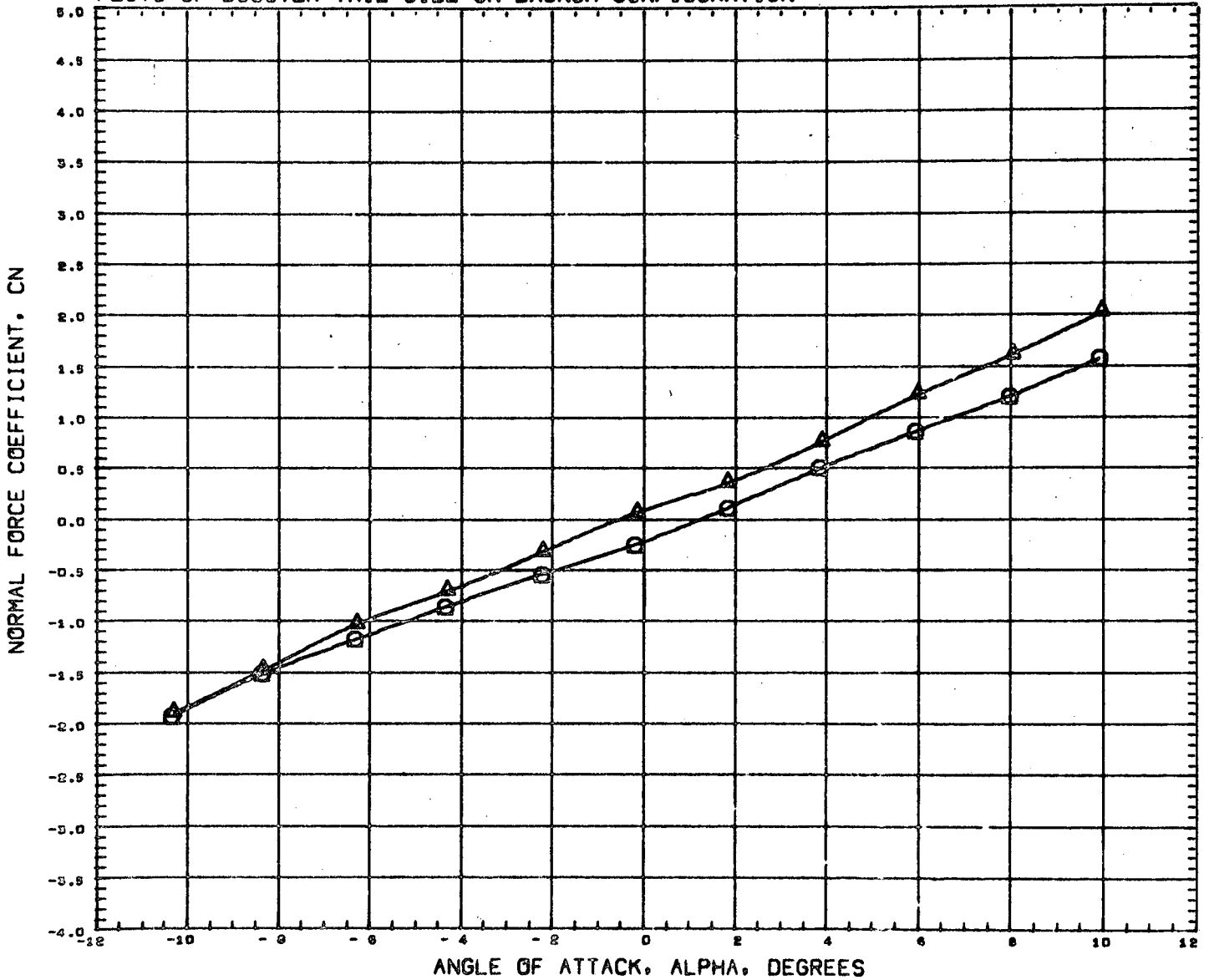
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA KEY	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E9037D)	□	M8FC 812 GD/C .003300 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	WREF	0.9350 30.1IN.
(E9040D)	△	M8FC 812 GD/C .003300 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
							BREF	1.0910 INCHES
							XMRP	3.7920 INCHES
							YMRP	0.0000 INCHES
							ZMRP	0.0000 INCHES
							SCALE	0.0034

MACH 8.740

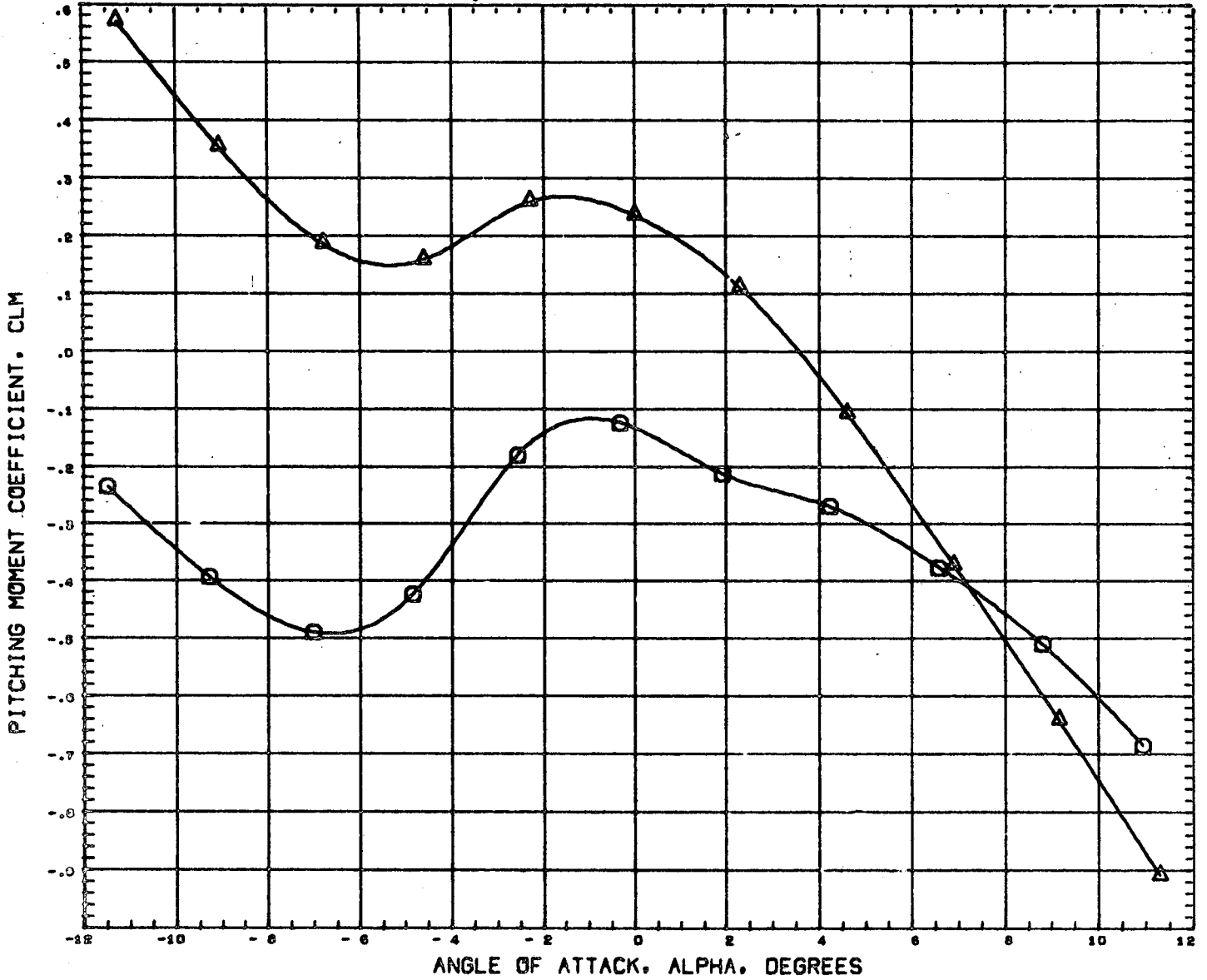
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E80370)	MSFC 512 GD/C .003366 BOOSTER/ORB. 834R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 80. IN.
(E80400)	MSFC 512 GD/C .003366 BOOSTER/ORB. 834R6T1302T3	0.000	0.000	0.000	0.036	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMR	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.019

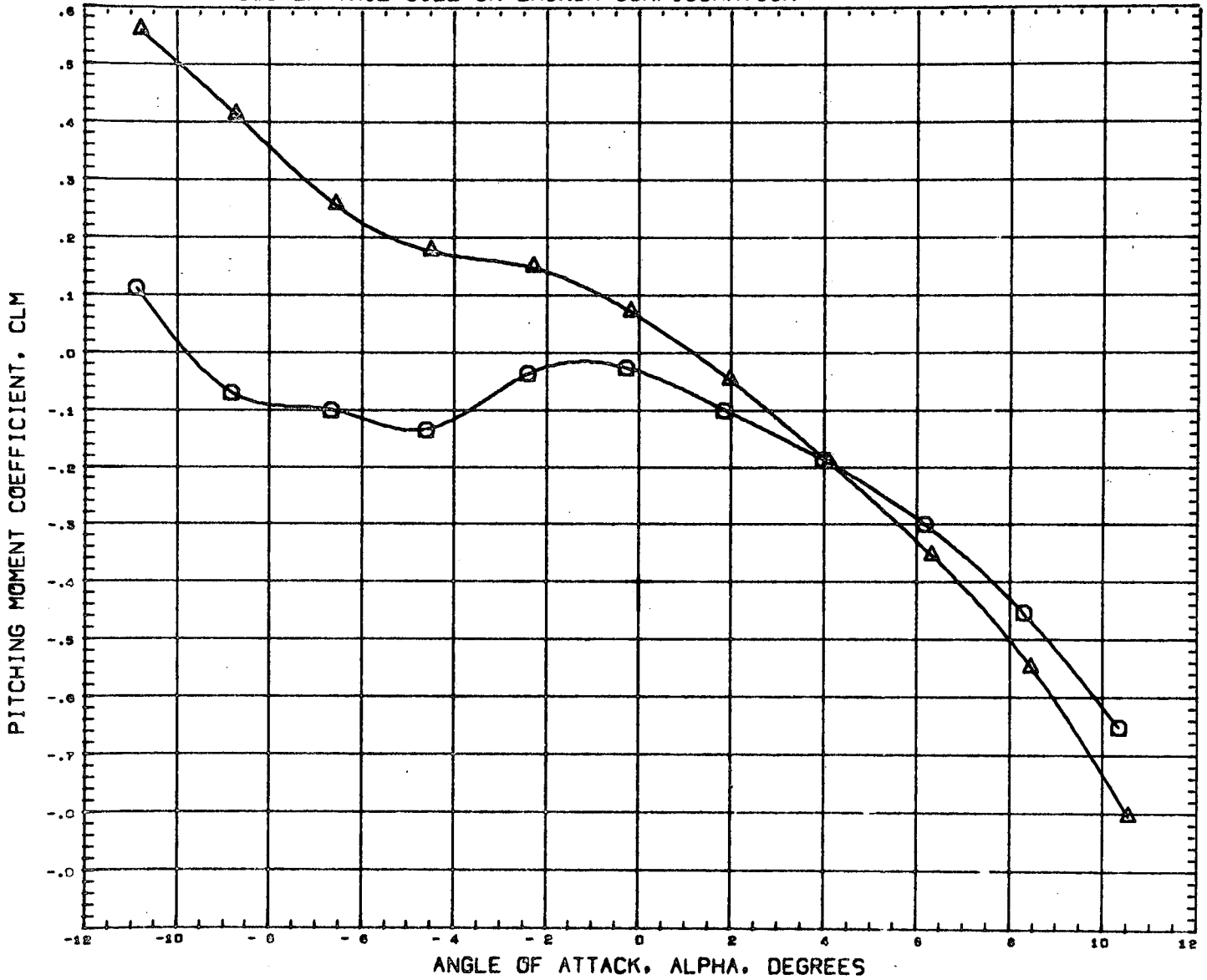
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E9037D)	MSFC 512 6D/C .003306 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF	0.9350 80. IN.
(E9040D)	MSFC 512 6D/C .003306 BOOSTER/ORB. B34R0T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.900

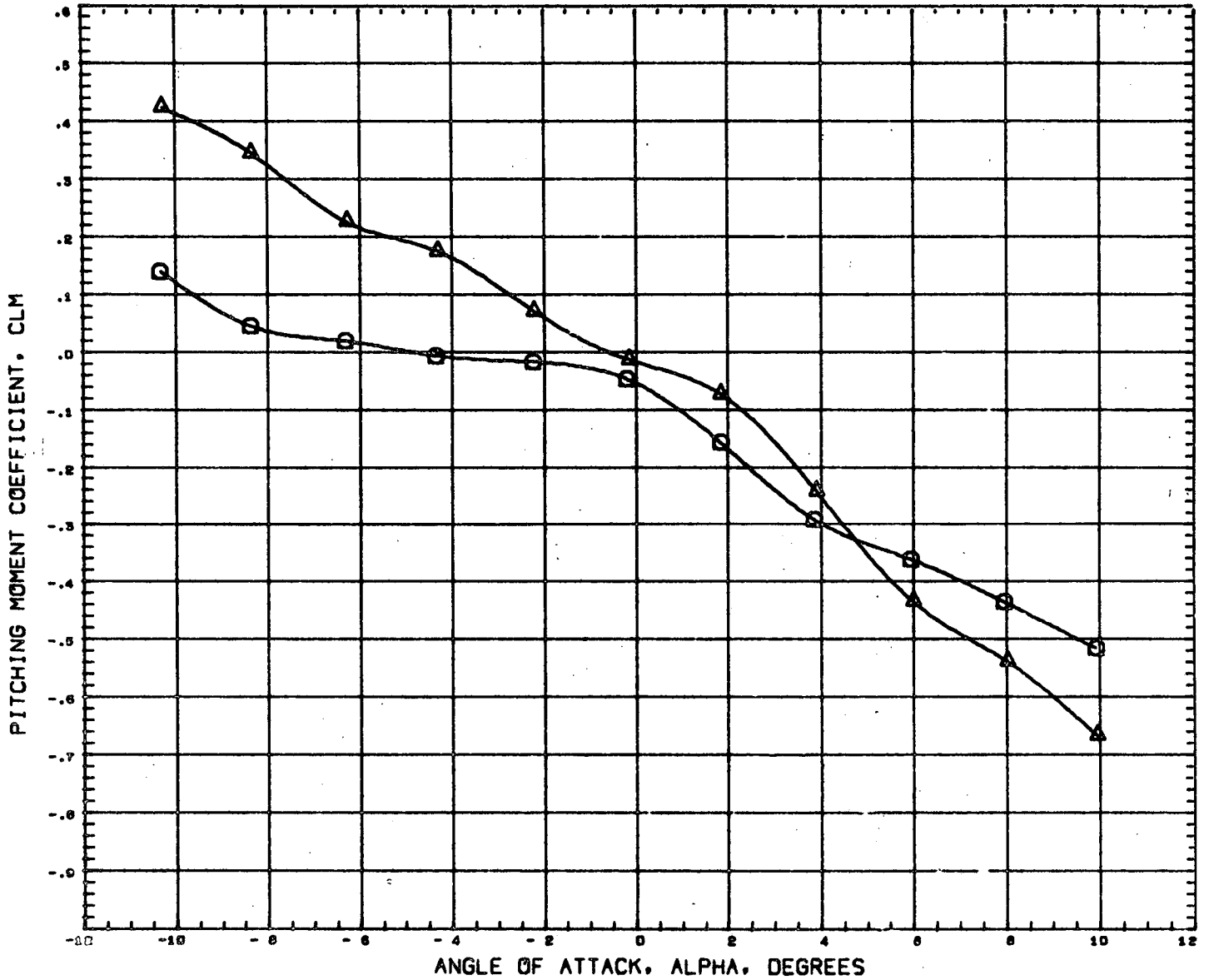
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T100213	0.000	0.000	0.000	0.000	SREF	0.9350 89. IN.
(E50400)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T13--T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMR	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 2.740

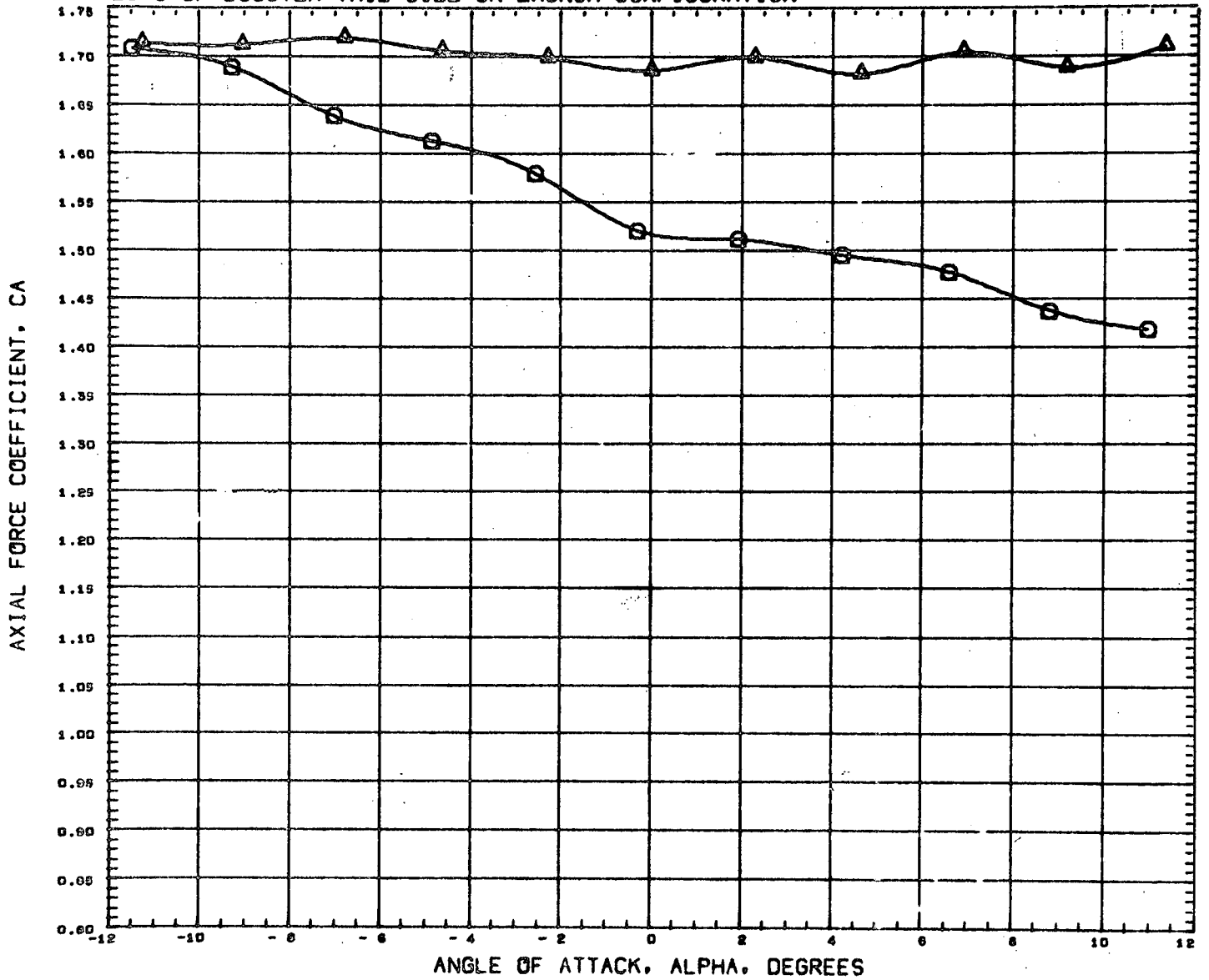
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50370) Q	MSFC 512 GD/C .003360 BOOSTER/ORB. B34RGT1D02T3	0.000	0.000	0.000	0.000	SREF	0.9350 80. IN.
(E50400) Δ	MSFC 512 GD/C .003360 BOOSTER/ORB. B34RGT13.2T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMR.	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.009

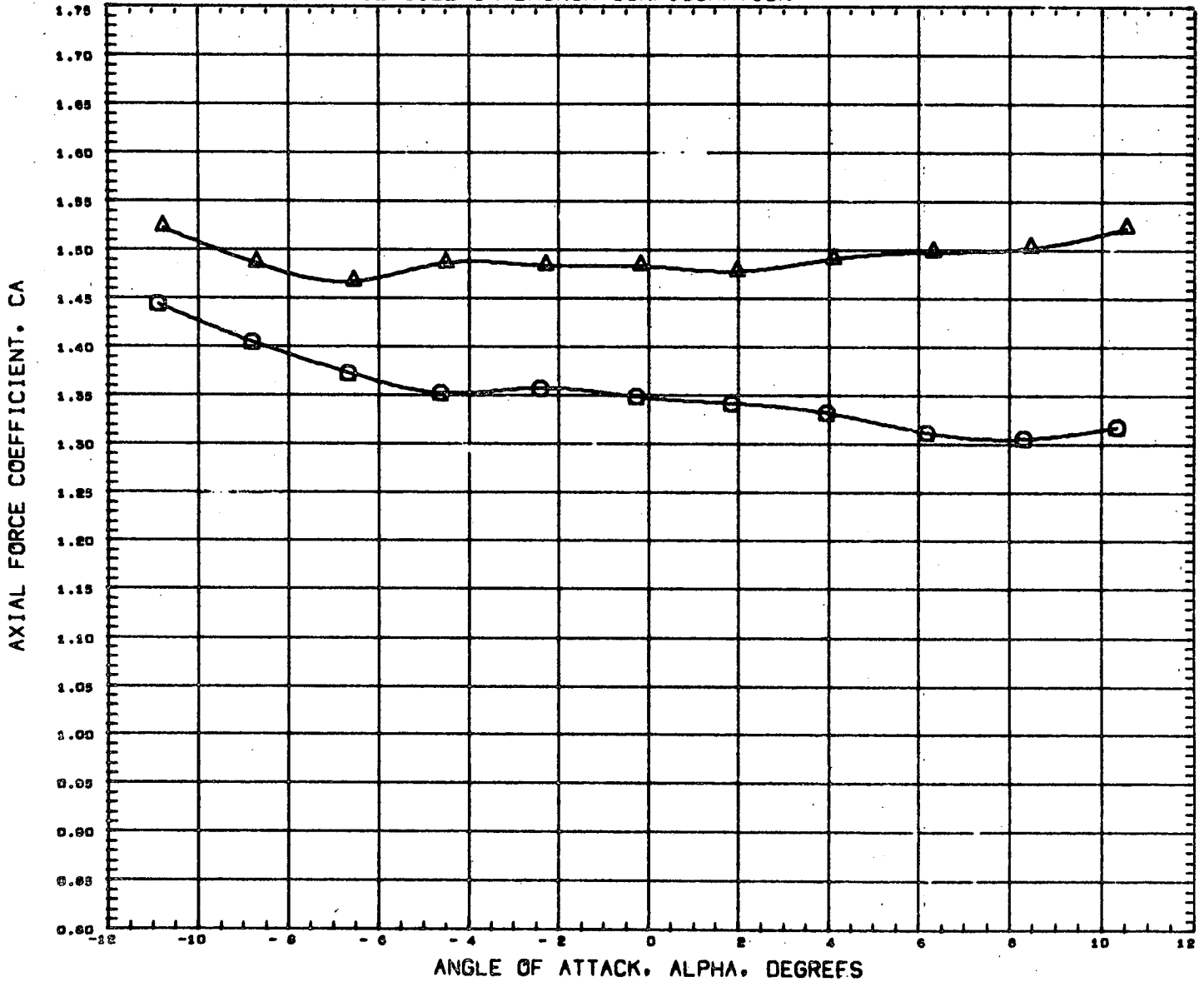
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHI00	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50370)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	WREF	0.9350 SQ. IN.
(E50400)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0810 INCHES
						XMRP	3.7820 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.010

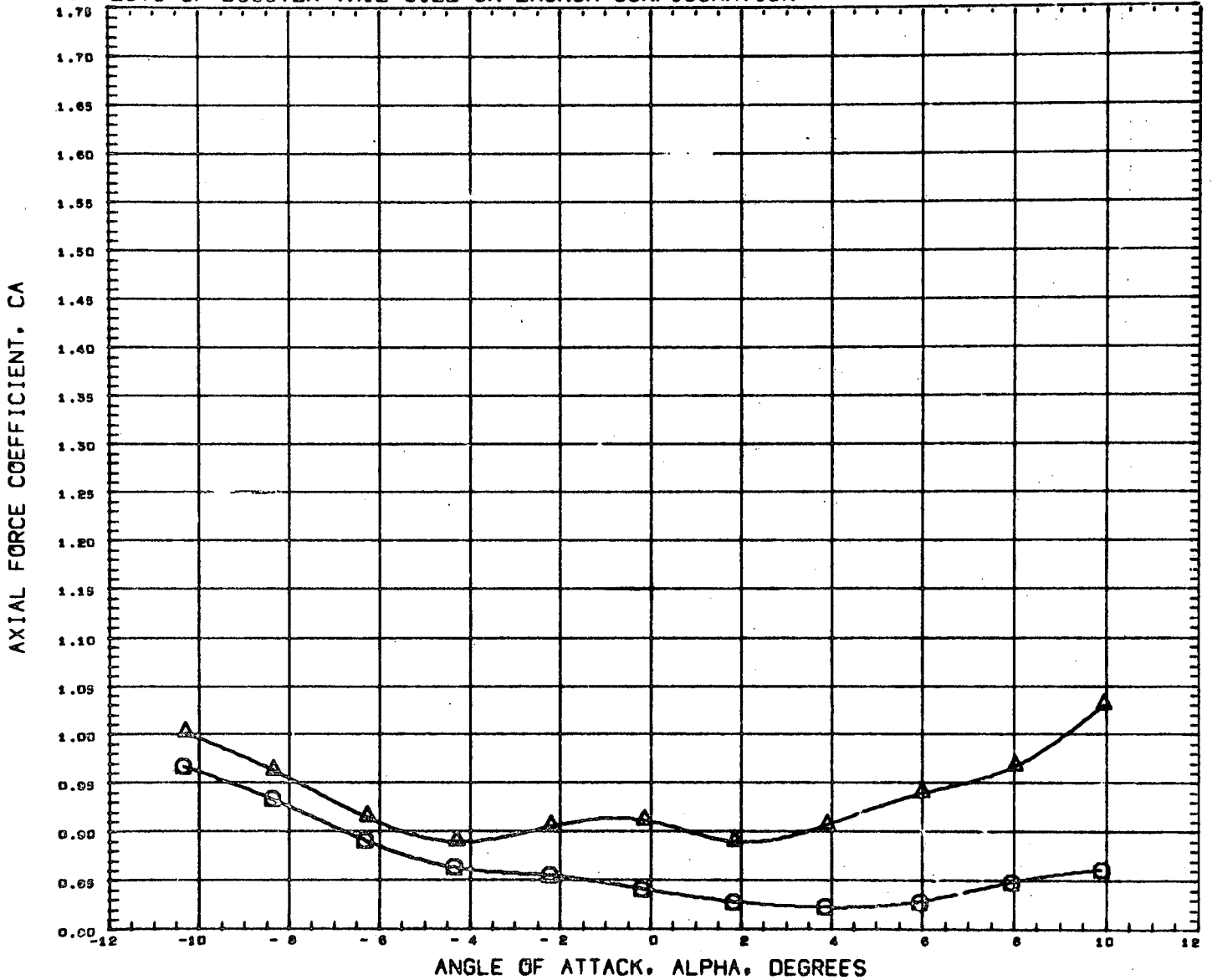
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50370) \circ	MSFC 512 GD/C .003366 DOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(E50400) Δ	MSFC 512 GD/C .003366 DOOSTER/ORB. B34R6T102T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 8.140

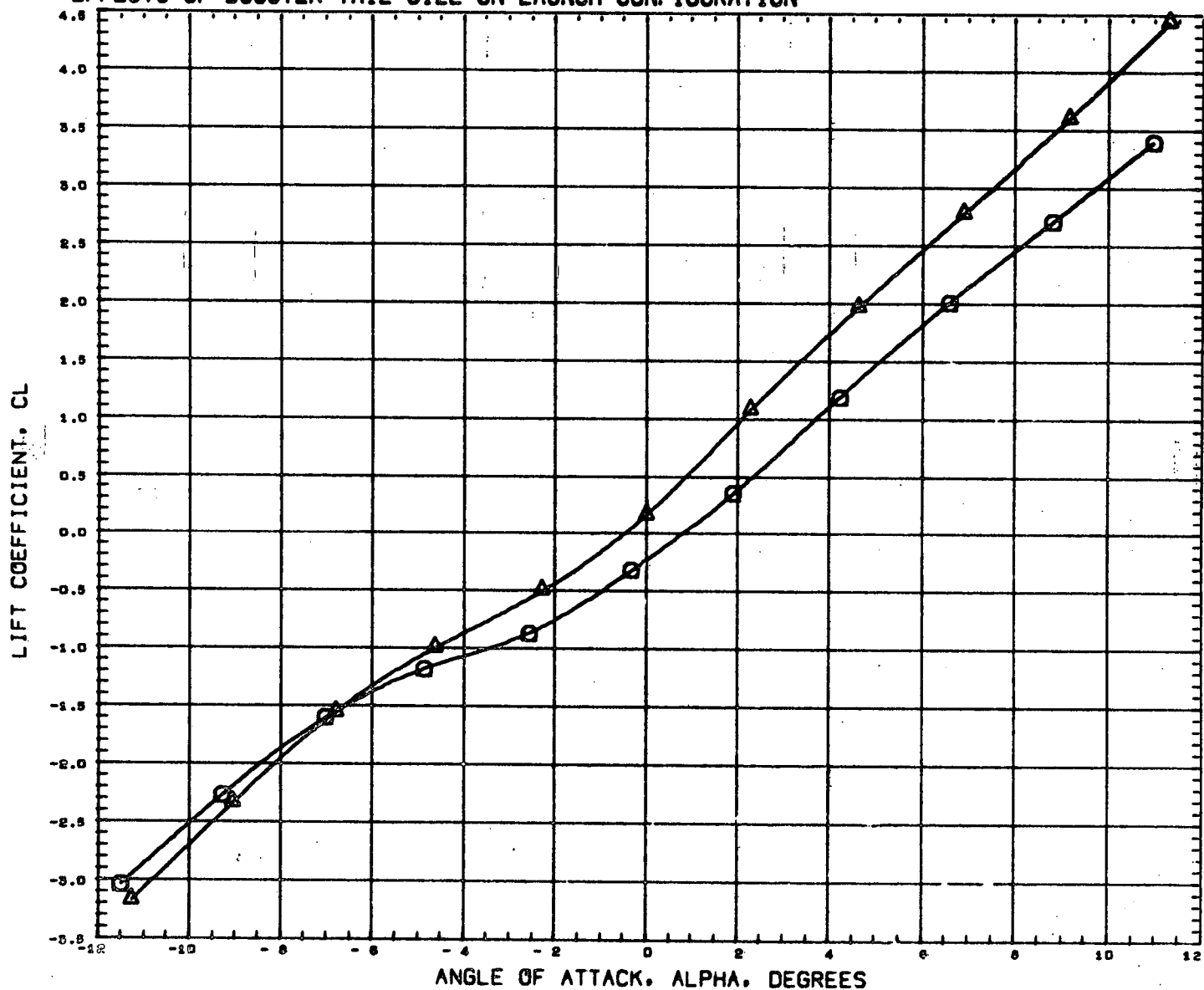
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50370)	MSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	JREF	0.9350 SQ. IN.
(E50400)	MSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T11002T3	0.000	0.000	0.000	0.000	LREF	6.2510 INCHES
						BREF	1.0910 INCHES
						XMP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.899

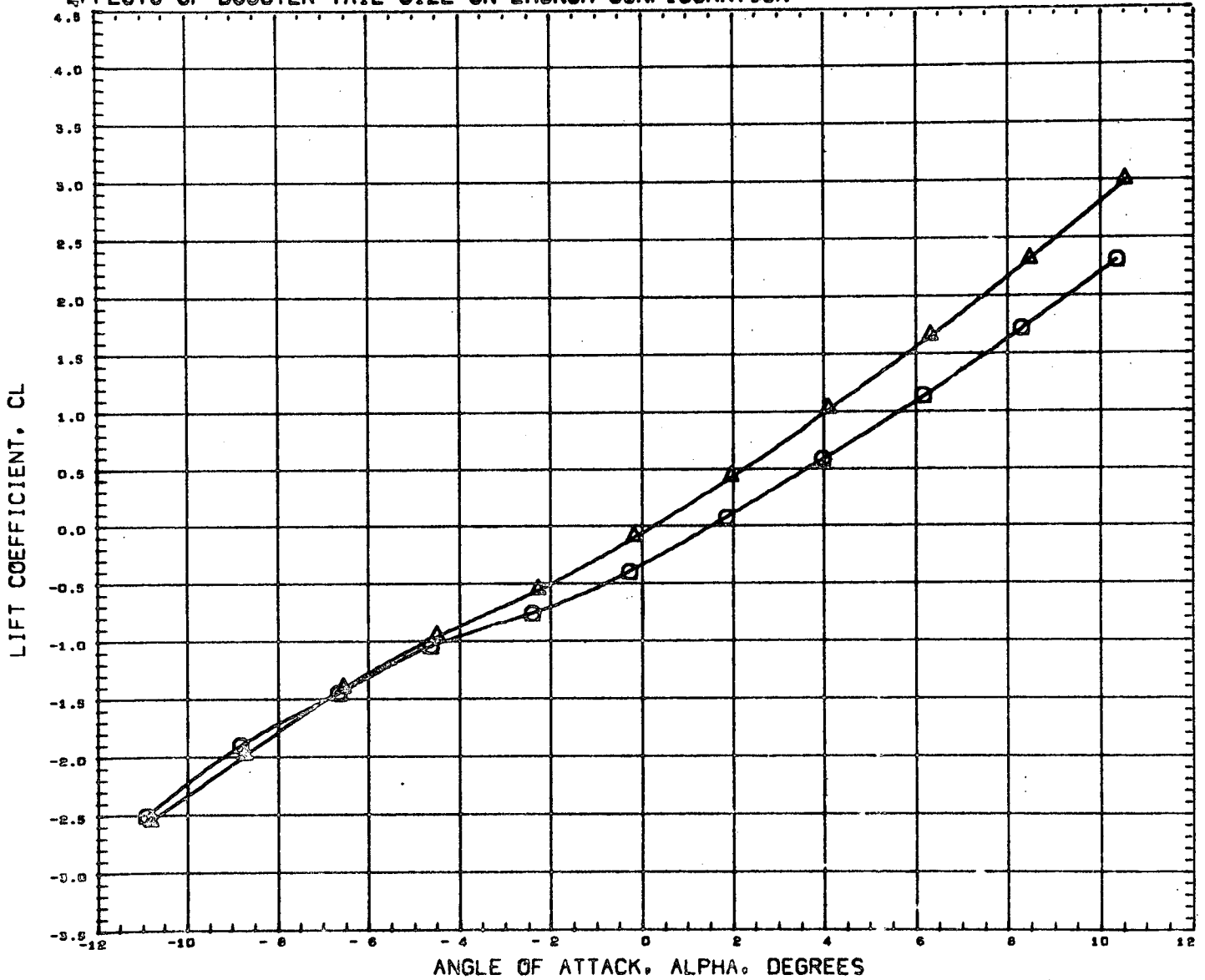
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 80.1N.
(E90400)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T15.2T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						SREF	1.0910 INCHES
						XMR	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.000

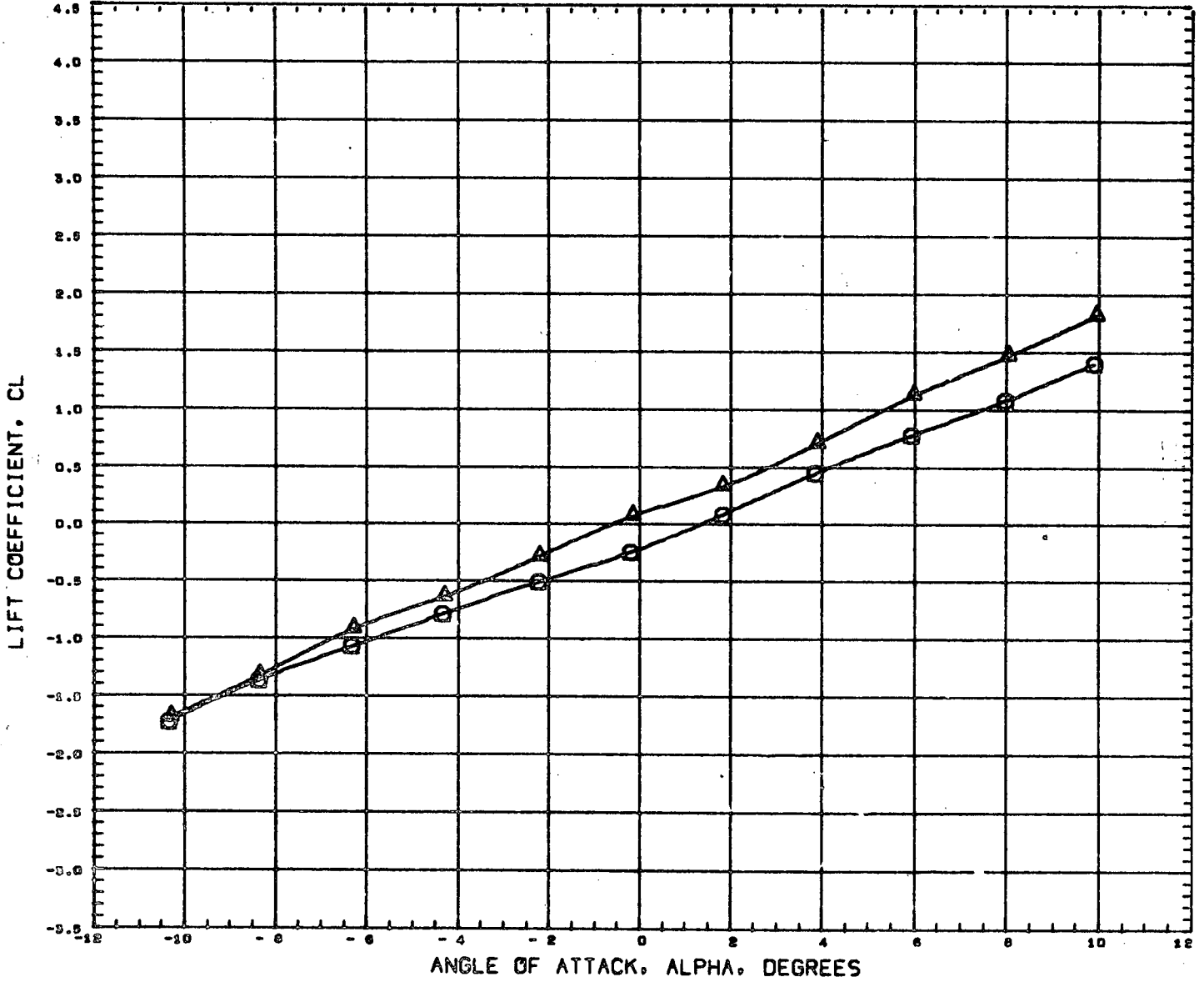
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B54R6T1002TS	0.000	0.000	0.000	0.000	bREF	0.9350 80. IN.
(E90400)	MSFC 512 GD/C .003366 BOOSTER/ORB. B54R6T1102TS	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMR*	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 2.740

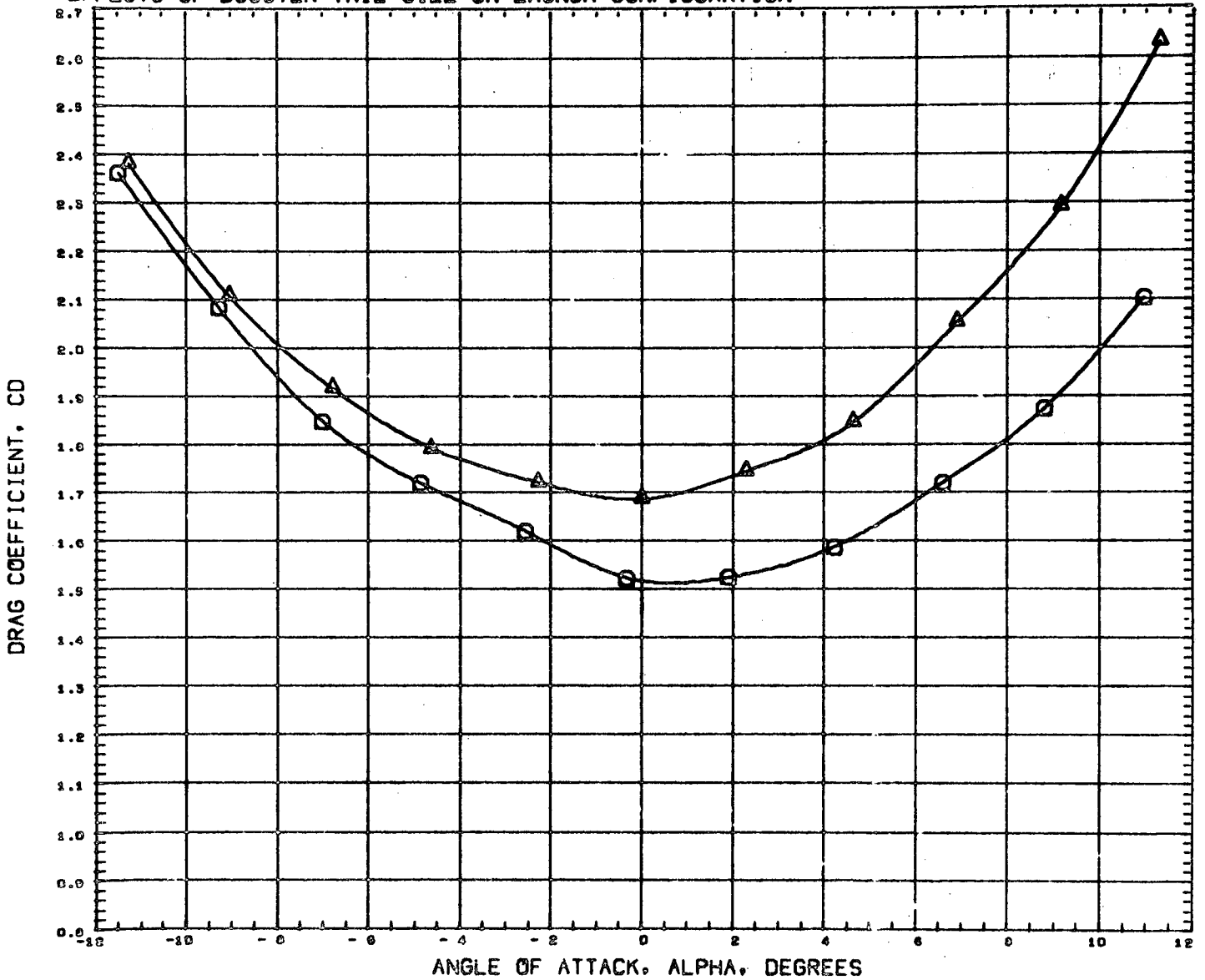
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIND	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50370)	MSFC 512 GD/C .003300 BOOSTER/ORB. B34R6Y1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(E50400)	MSFC 512 GD/C .003300 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMR	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.919

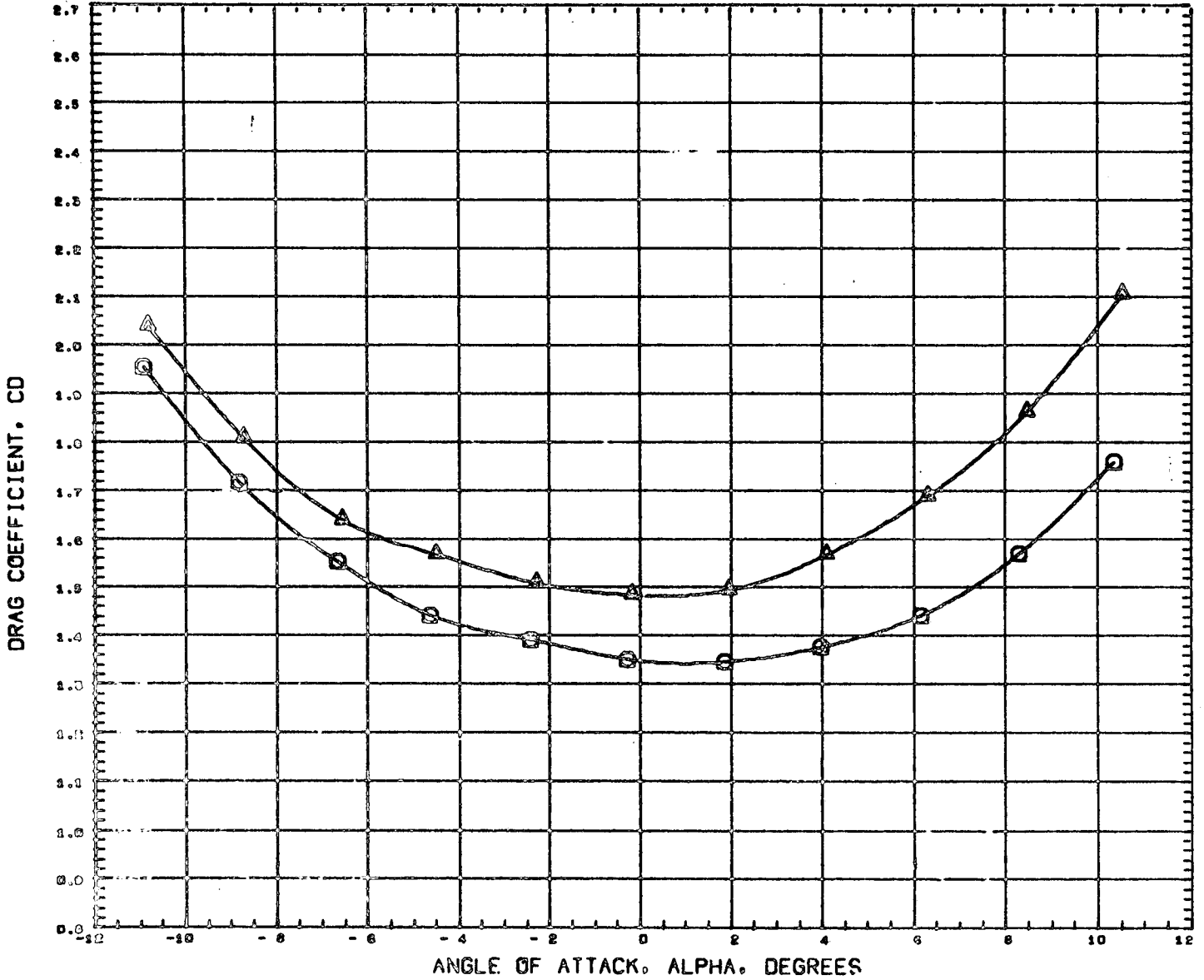
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90370)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(E90400)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1172T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMR	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.910

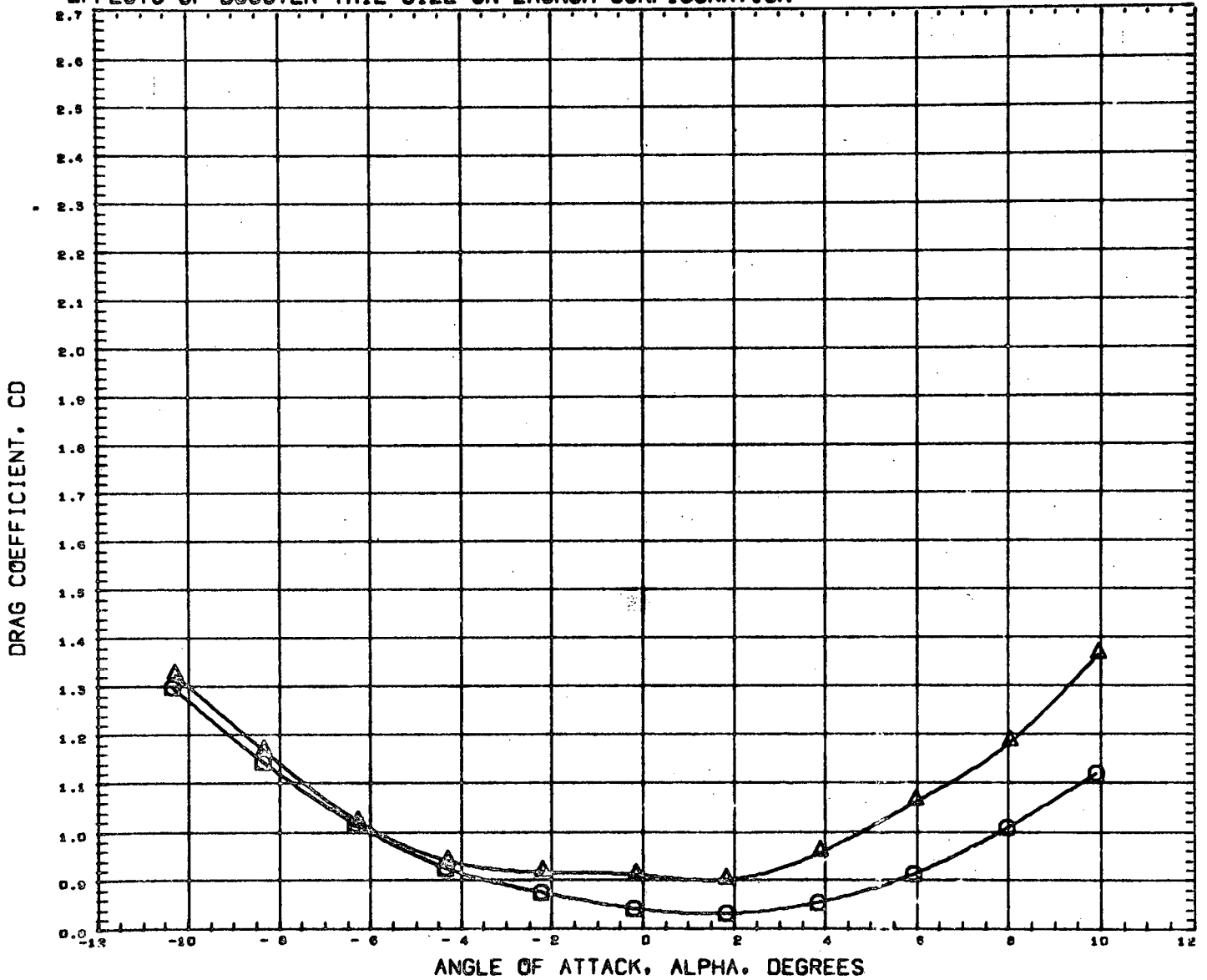
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	DELTA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90370) ○	MSFC 912 6D/C .008900 COOBYER/CRD. 834R6Y100275	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(E90400) △	MSFC 912 6D/C .008900 COOBYER/CRD. 834R6Y130775	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						KMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

NACH 2.740

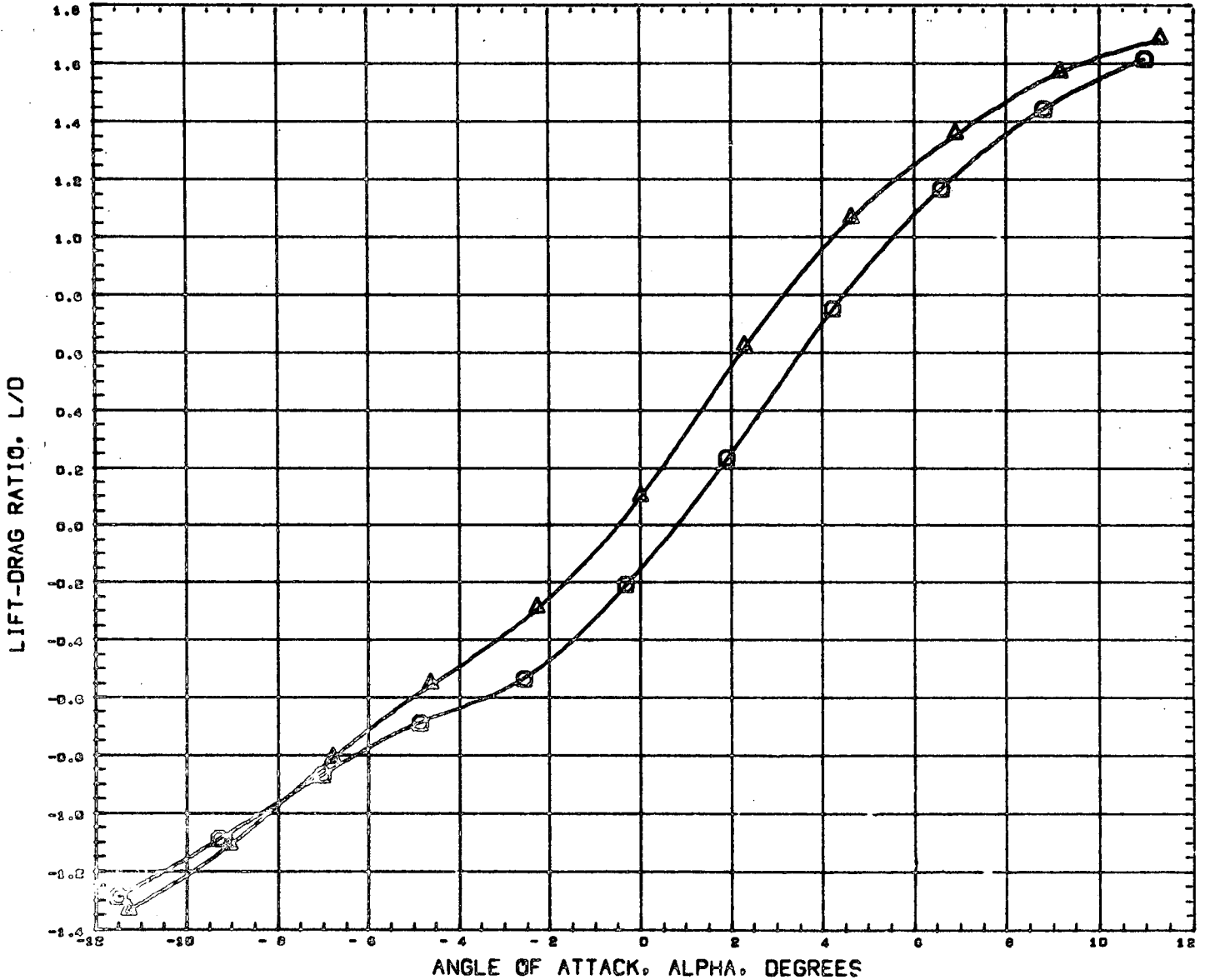
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E5D370)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ.IN.
(E5D400)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMR	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.059

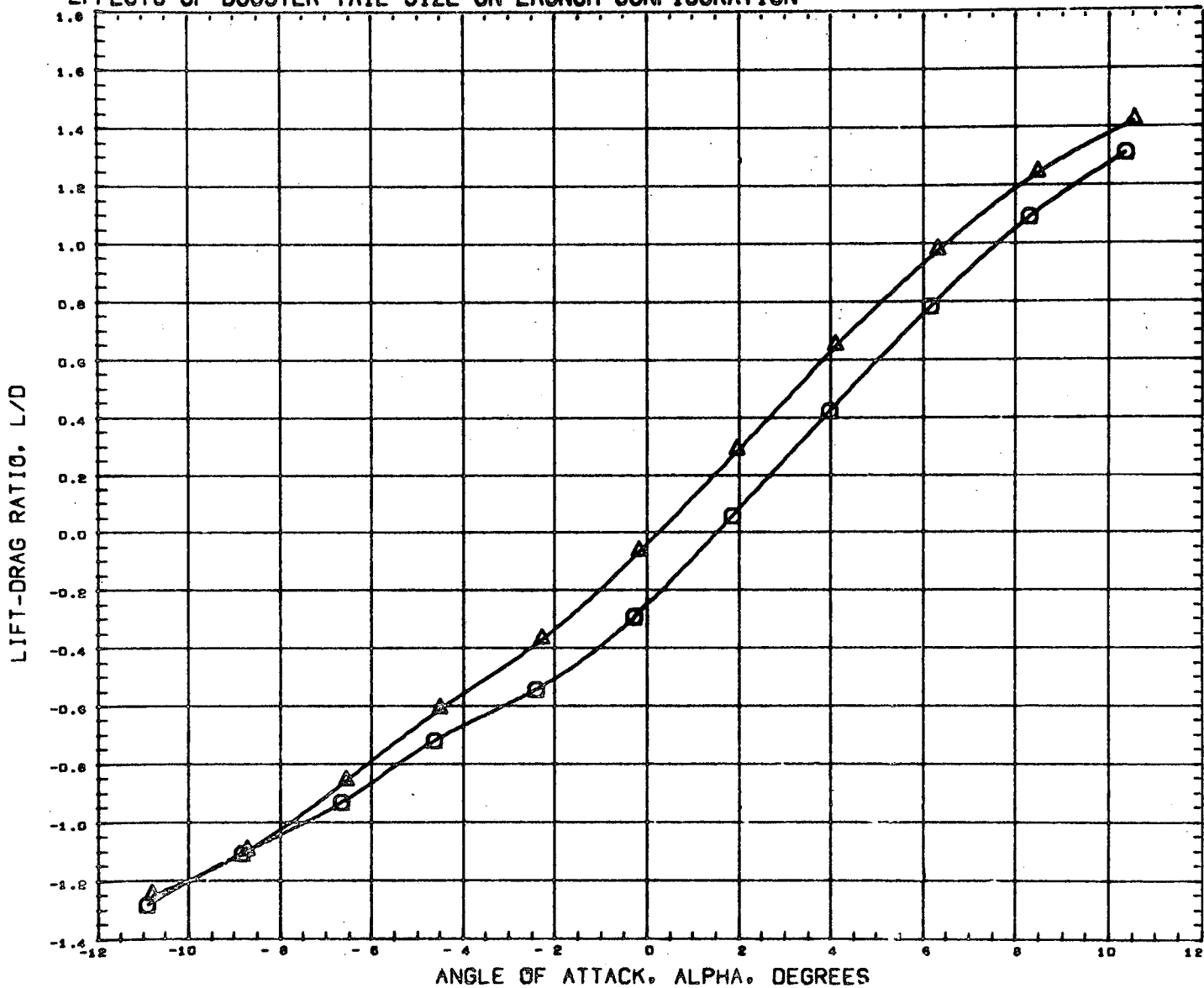
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50370)	MSFC 512 GD/C .003900 BOOSTER/CRD. B94RGT1002T3	0.000	0.000	0.000	0.000	SREF	0.9390 SQ. IN.
(E50400)	MSFC 512 GD/C .003900 BOOSTER/CRD. B94RGT130CT3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRF	3.7920 INCHES
						YMRF	0.0000 INCHES
						ZMRF	0.0000 INCHES
						SCALE	0.0034

0.001

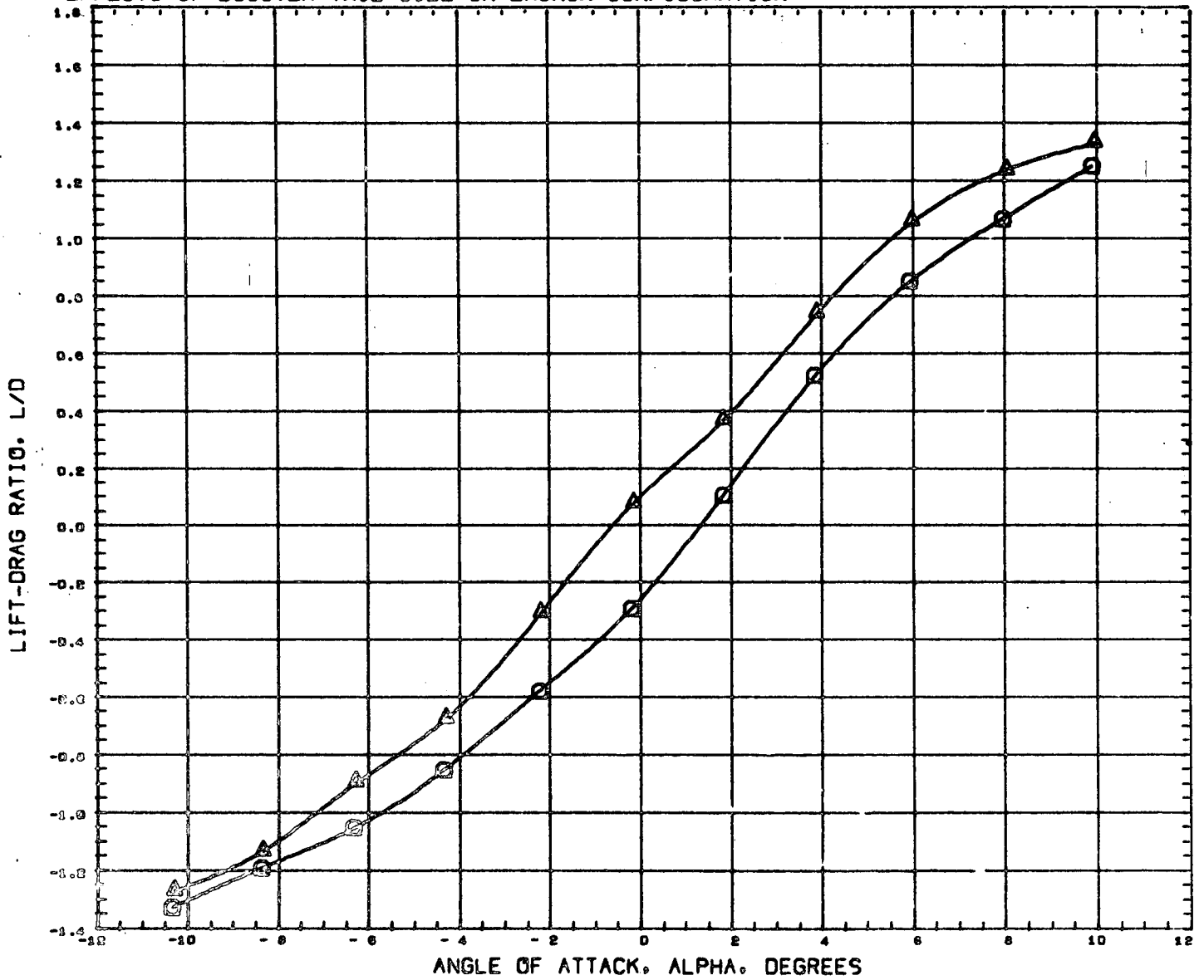
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50370)	MSFC 512 GD/C .005966 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E50400)	MSFC 512 GD/C .005966 BOOSTER/ORB. B34R6T1S0PT3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

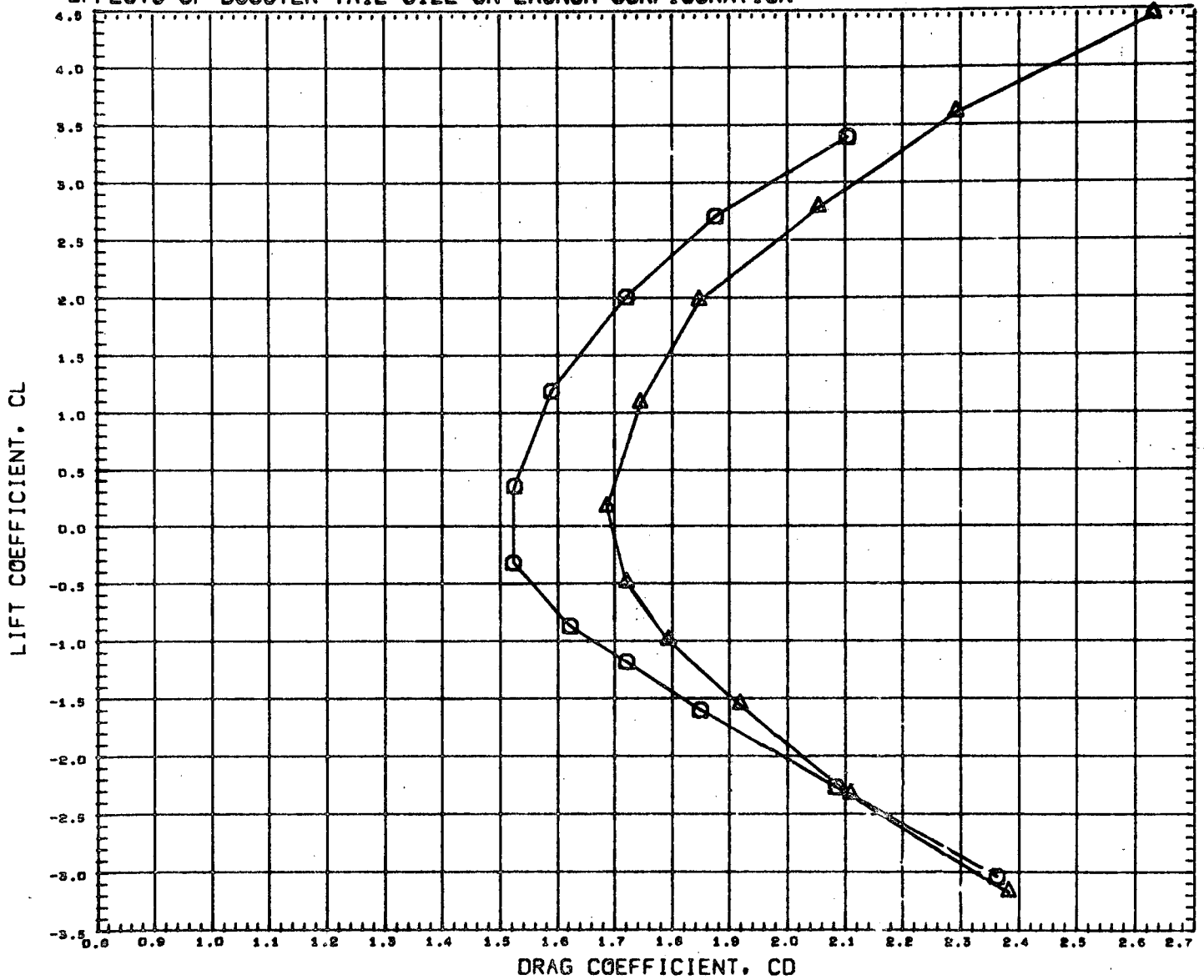
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA QTY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E30373)	MSFC 812 GD/C .003906 BOOSTER/ORB. 834RGT1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 80. IN.
(E30400)	MSFC 812 GD/C .003906 BOOSTER/ORB. 834RGT1312T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMR	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

04060 4.980

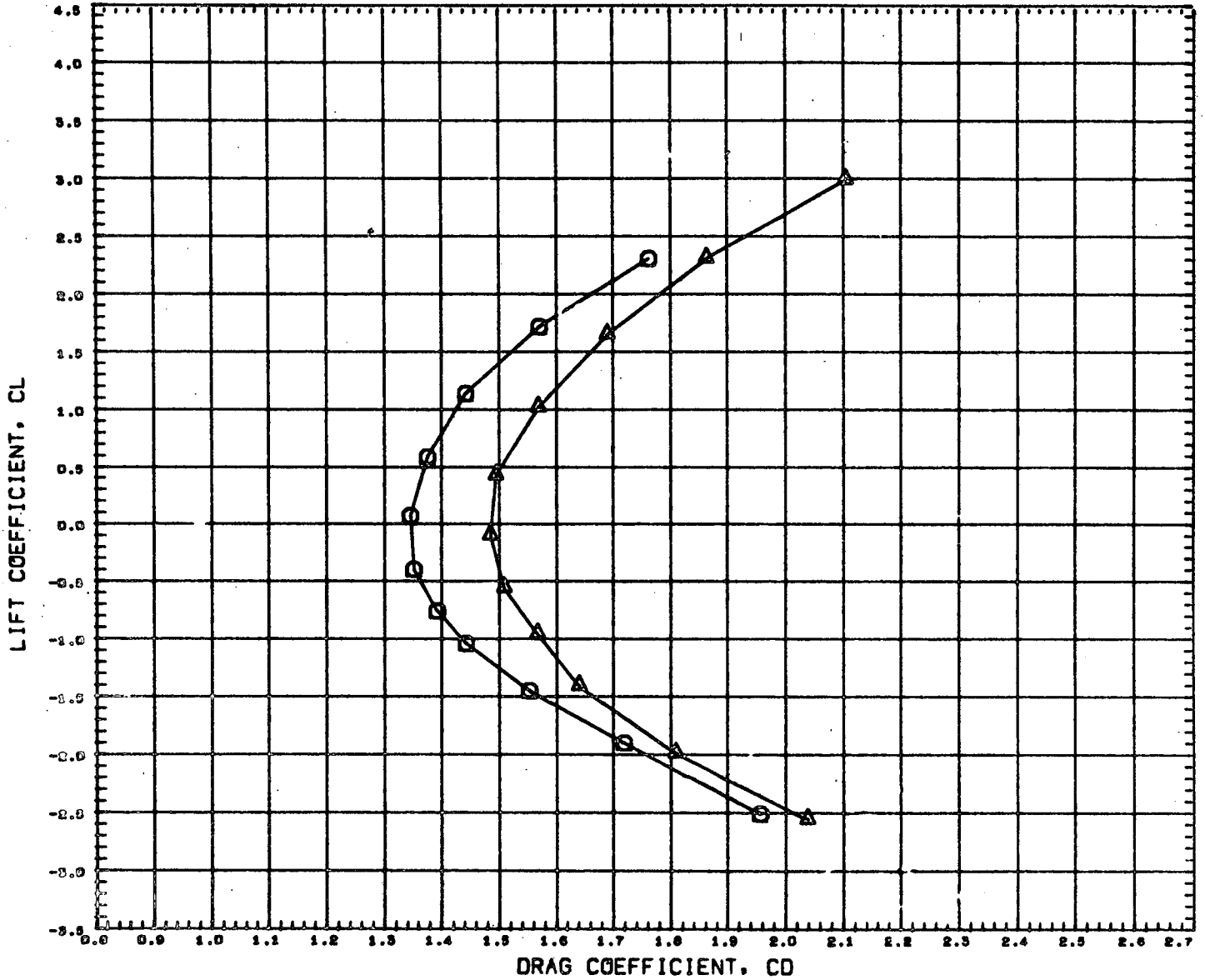
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90370)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	3.000	SREF	0.9350 80. IN.
(E90400)	MSFC 512 GD/C .003966 BOOSTER/ORB. B34R6T137CT3	0.000	0.000	0.000	3.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.900

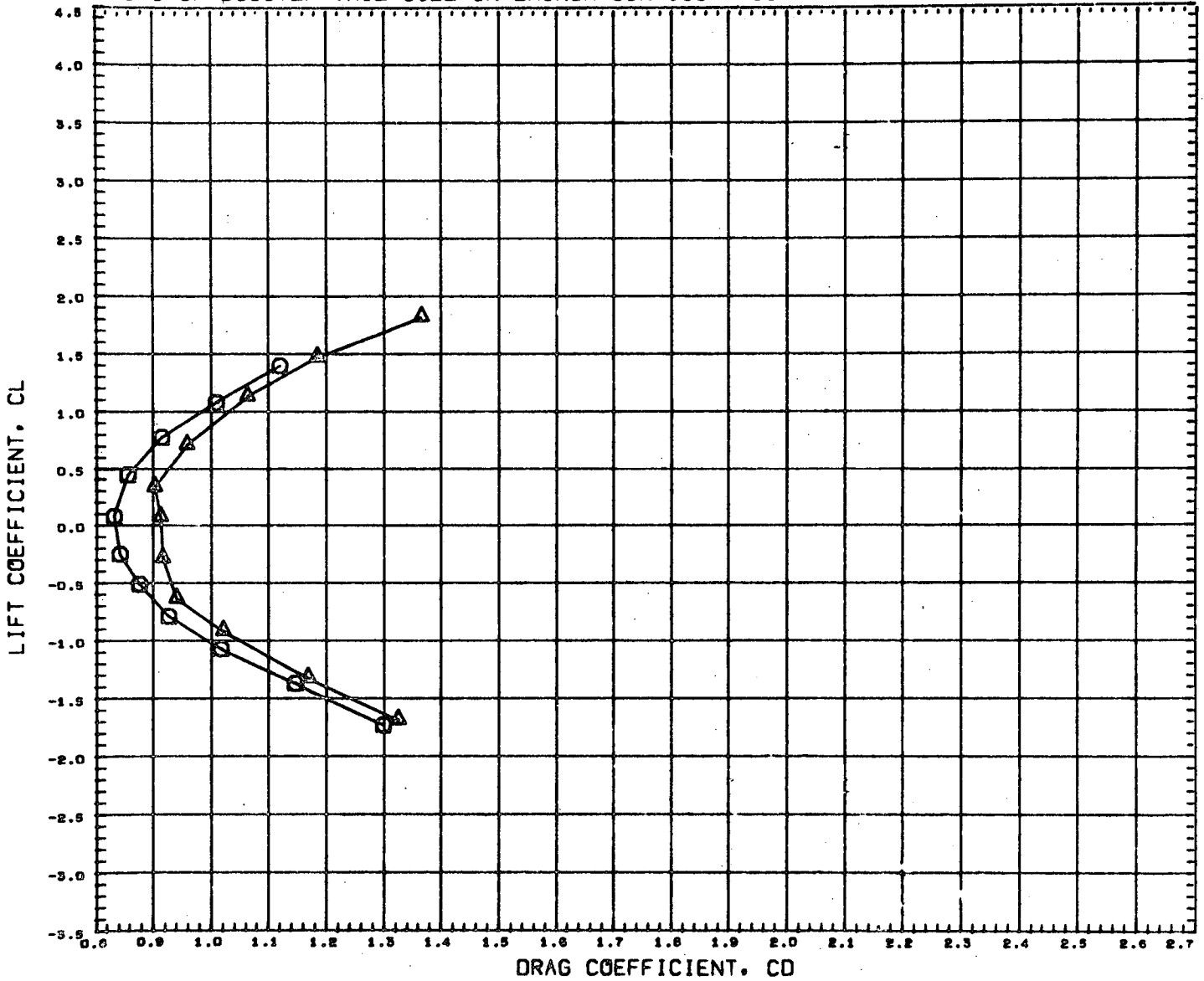
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA BY	SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E80370)	○	M8FC 912 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	ZREF 0.9350 SQ. IN.
(E80400)	△	M8FC 912 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
							BREF 1.0910 INCHES
							XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

MACH 2.740

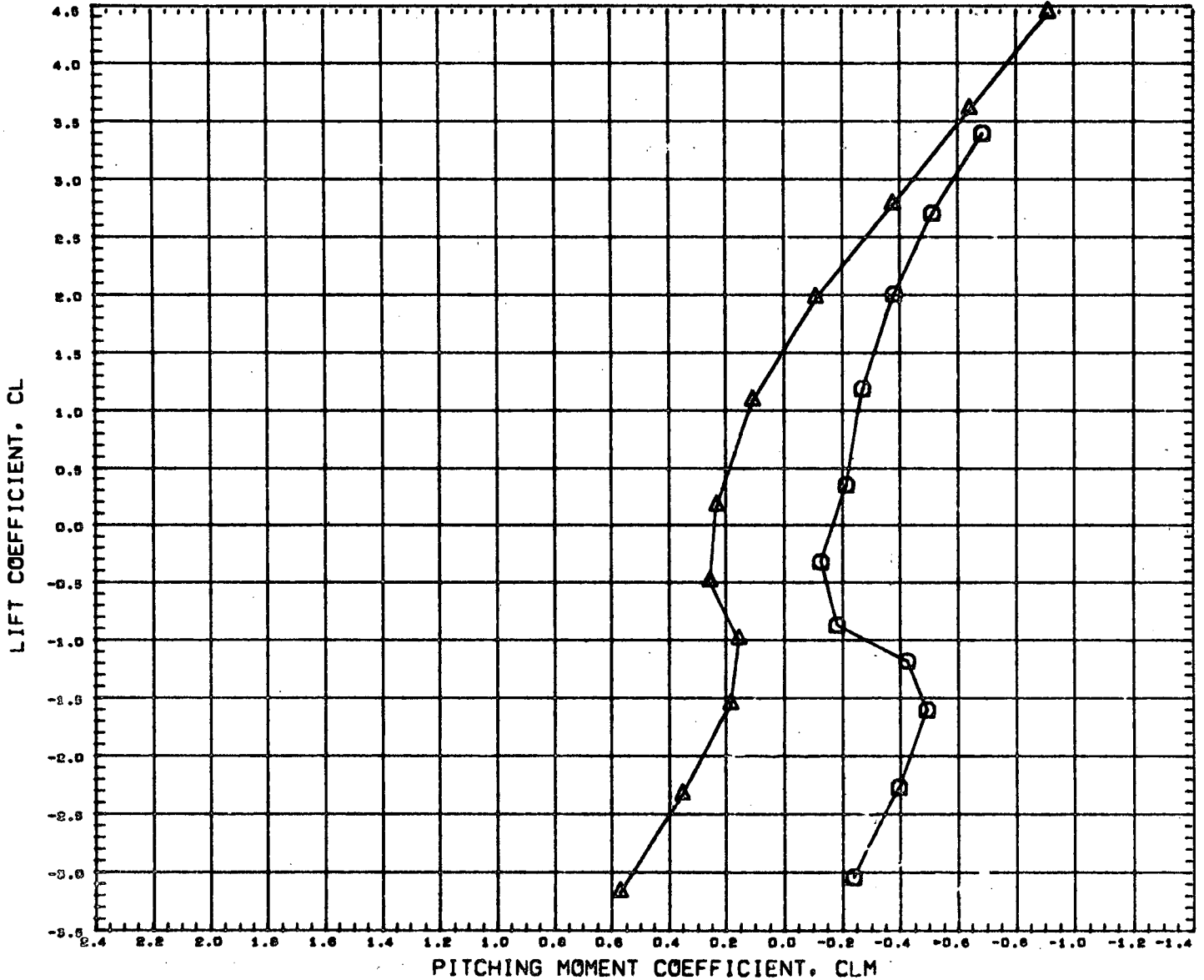
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E50370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(E50400)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1300T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.859

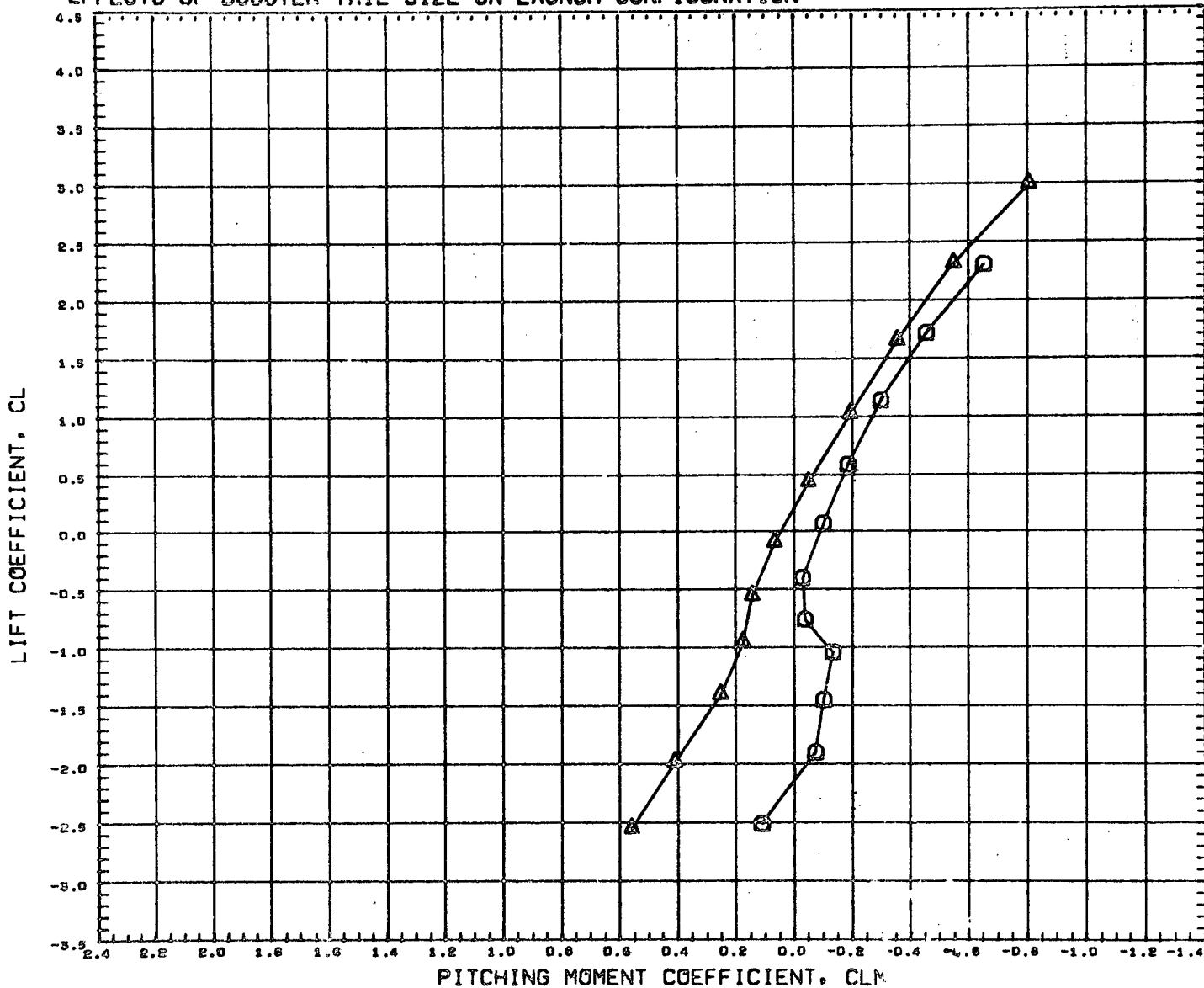
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50370)	Q MBFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(E50400)	Q MBFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1311T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMR:	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.000

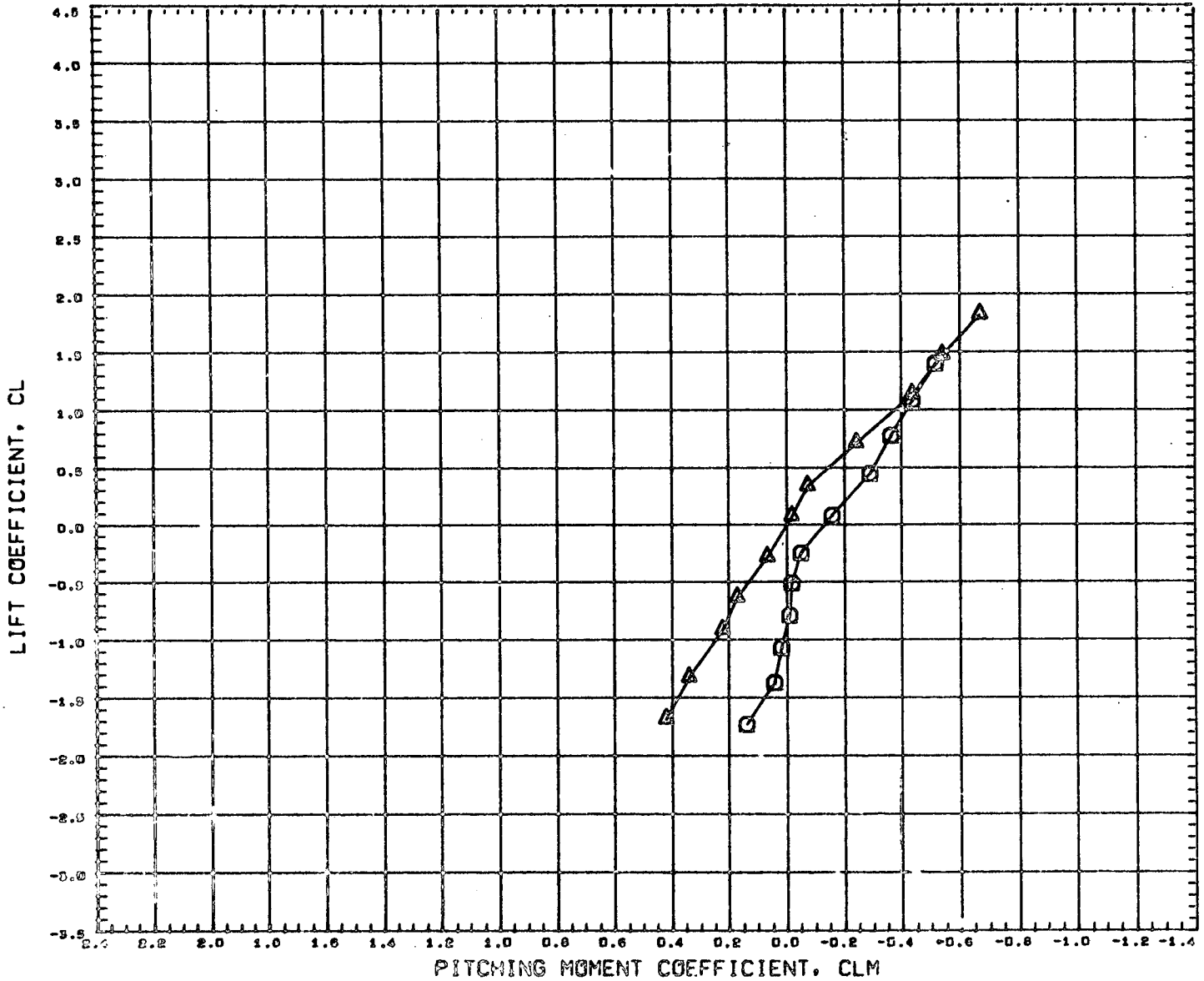
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(E90370)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 80. IN.
(E90400)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	1.000	REF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

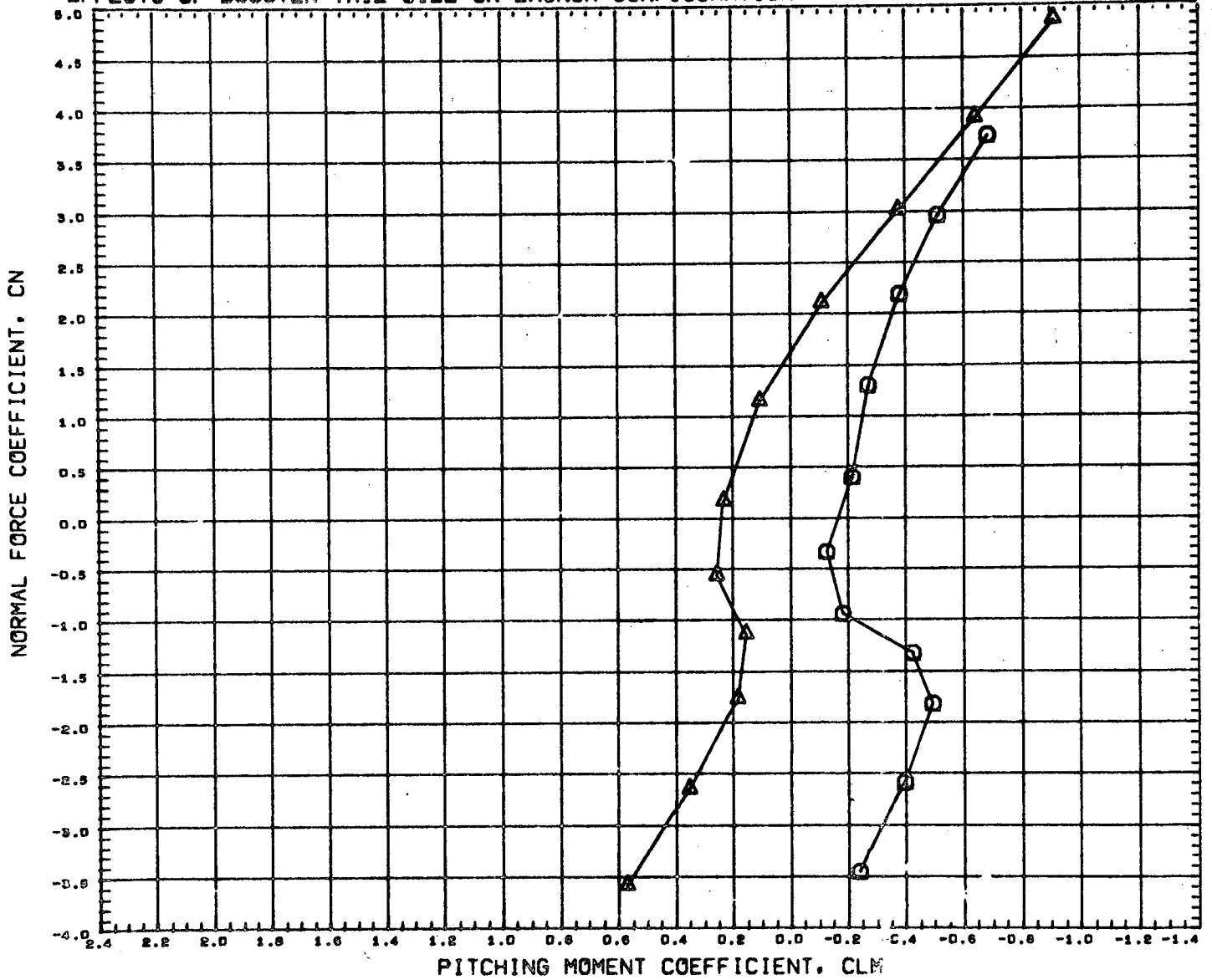
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E50373)	MSFC 312 GD/C .003366 BOOSTER/ORD. B34R6T1002T3	0.000	0.000	0.000	0.000	SFTF	0.9350 SQ. IN.
(E50400)	MSFC 312 GD/C .003366 BOOSTER/ORD. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

WACH 4.099

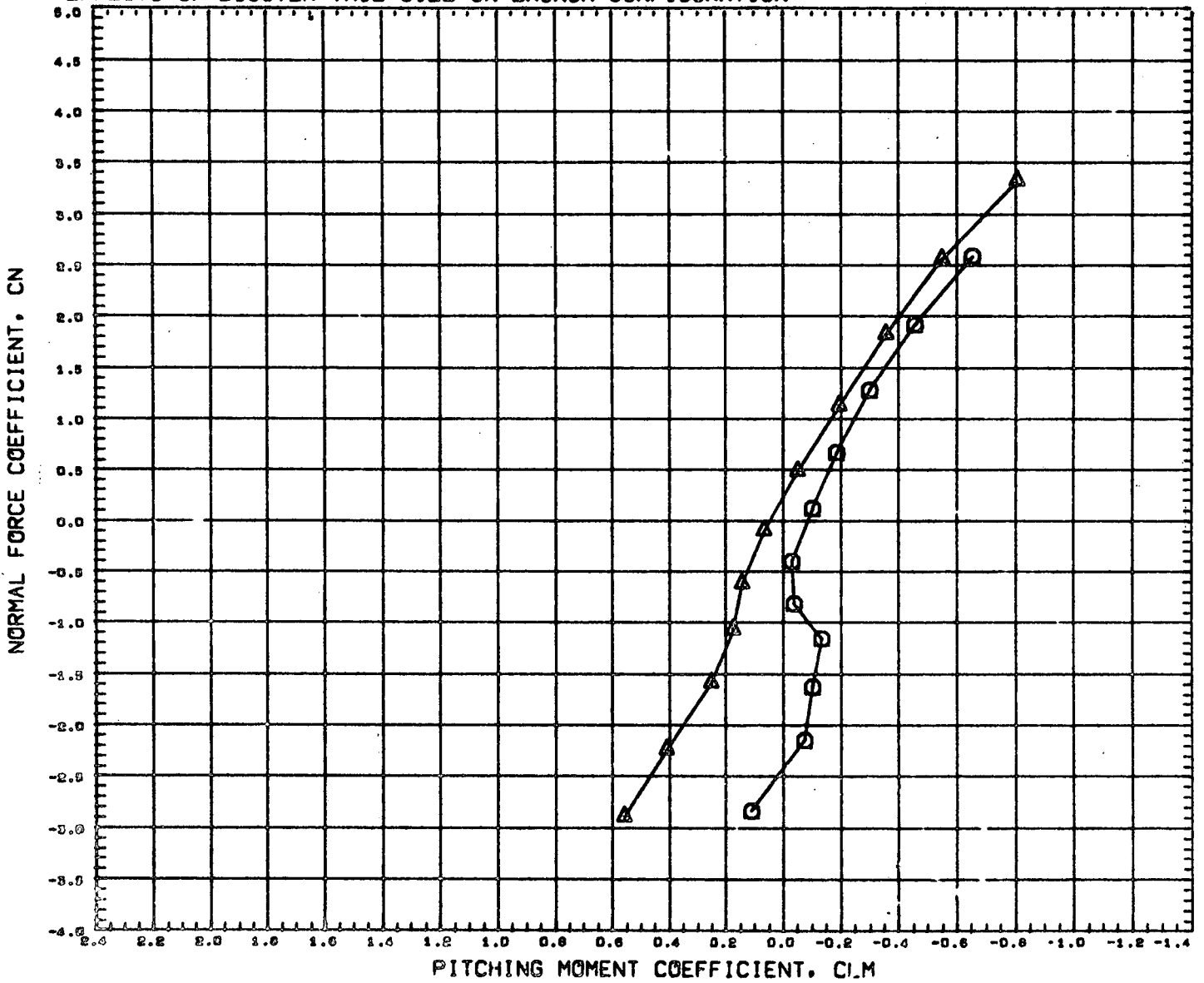
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E9037D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF	0.9350 SQ. IN.
(E9040D)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.900

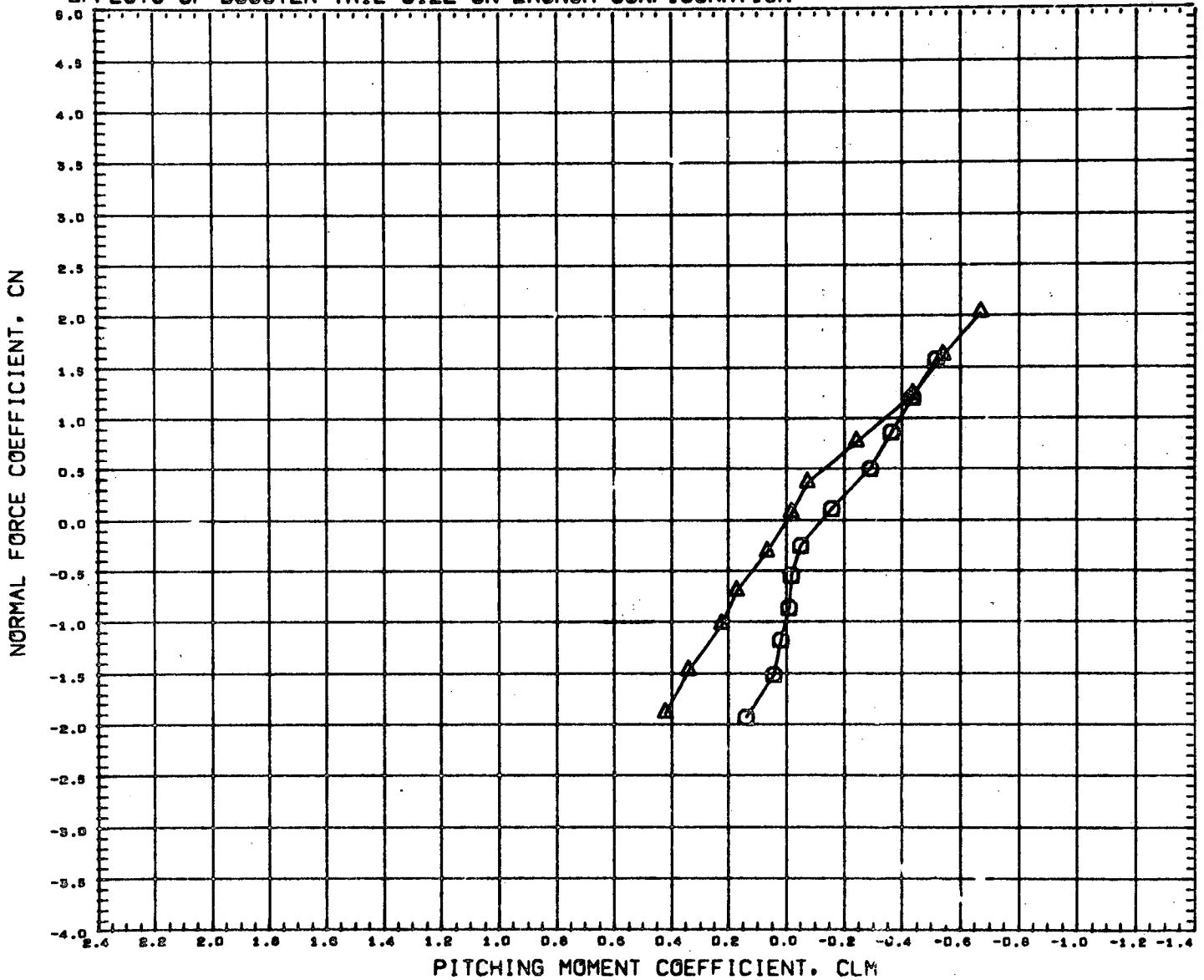
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90370)	MSFC 512 GD/C .003506 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 80. IN.
(E90400)	MSFC 512 GD/C .003506 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRT	3.7920 INCHES
						YMRT	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 2.740

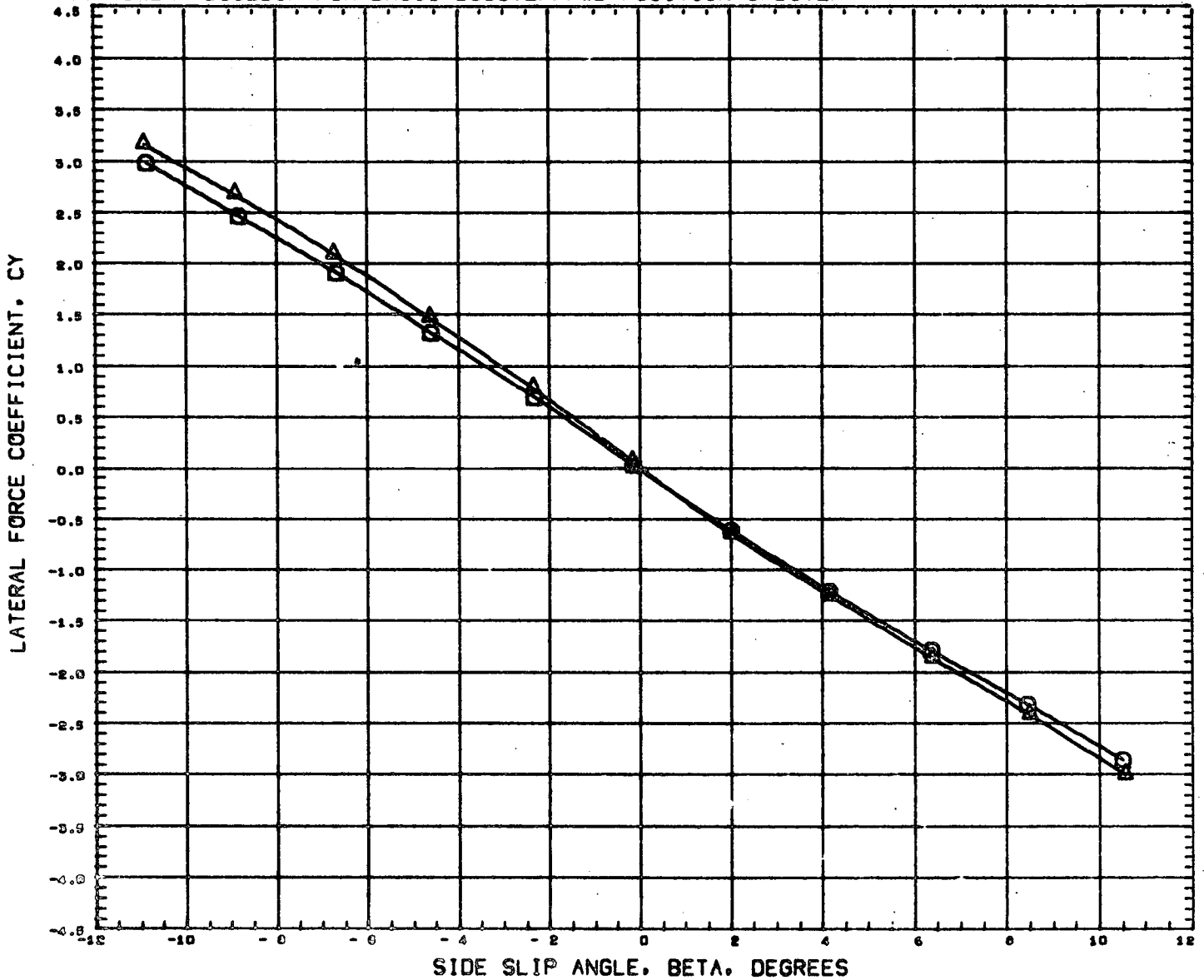
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	BETA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(E90370)	Q MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF	0.9350 SQ. IN.
(E90400)	Δ MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.959

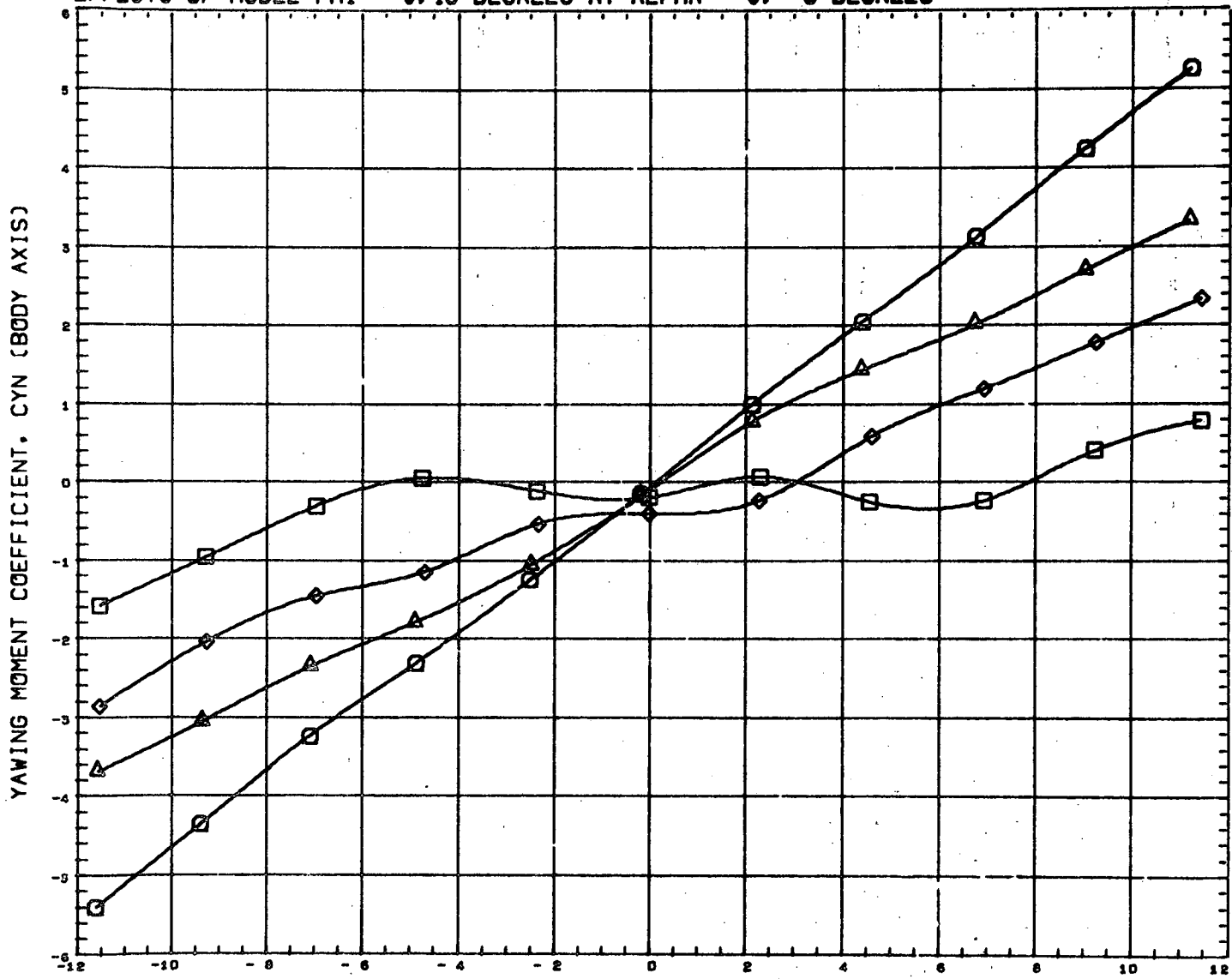
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHI MOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(NS0300)	NSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	SREF	0.9350 80. IN.
(NS0300)	NSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.661

EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES

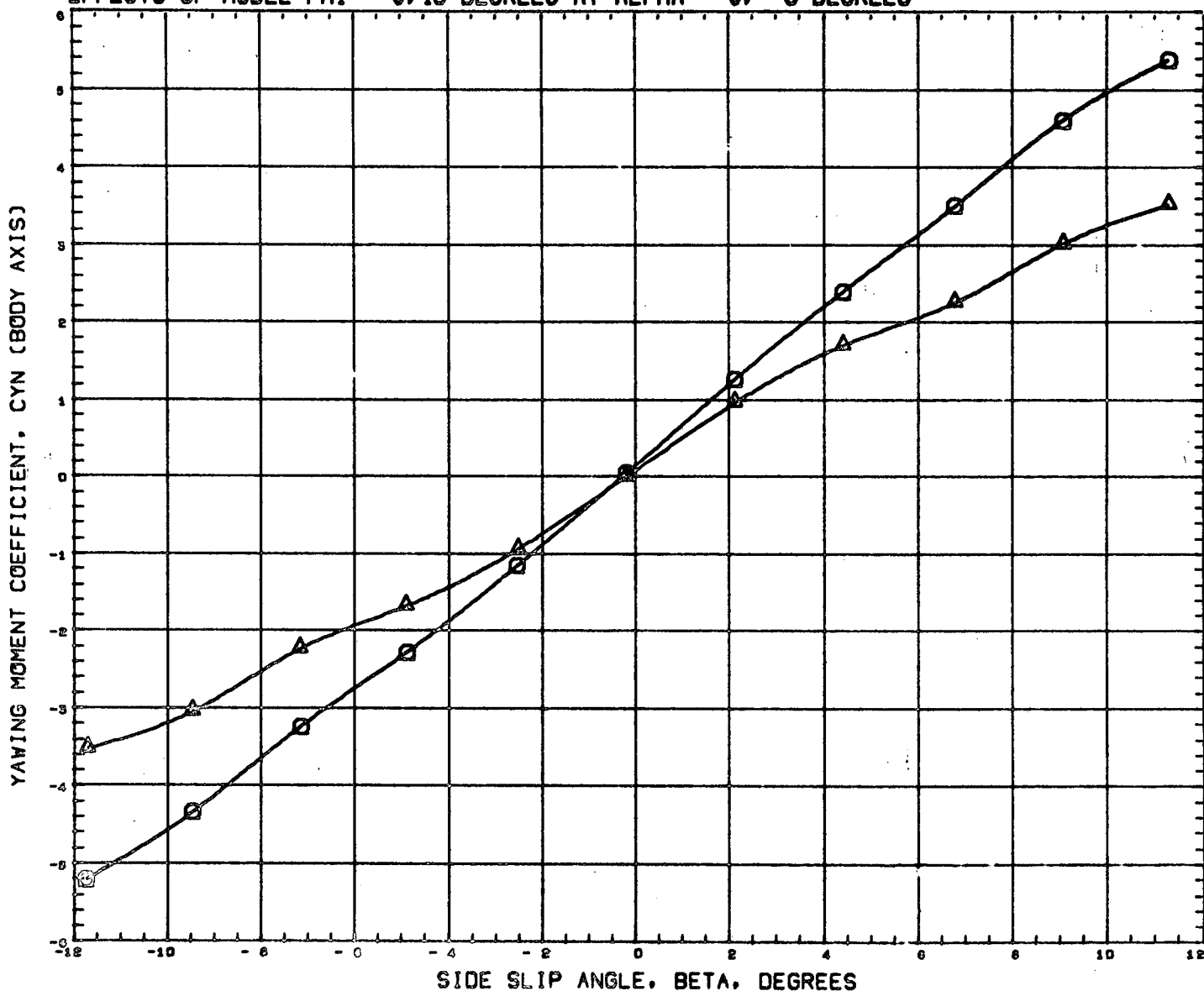


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(ASD108)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(MSD250)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(MSD220)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(MSD340)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	-6.000	45.000	0.000	0.000	XHRP 3.7920 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.104

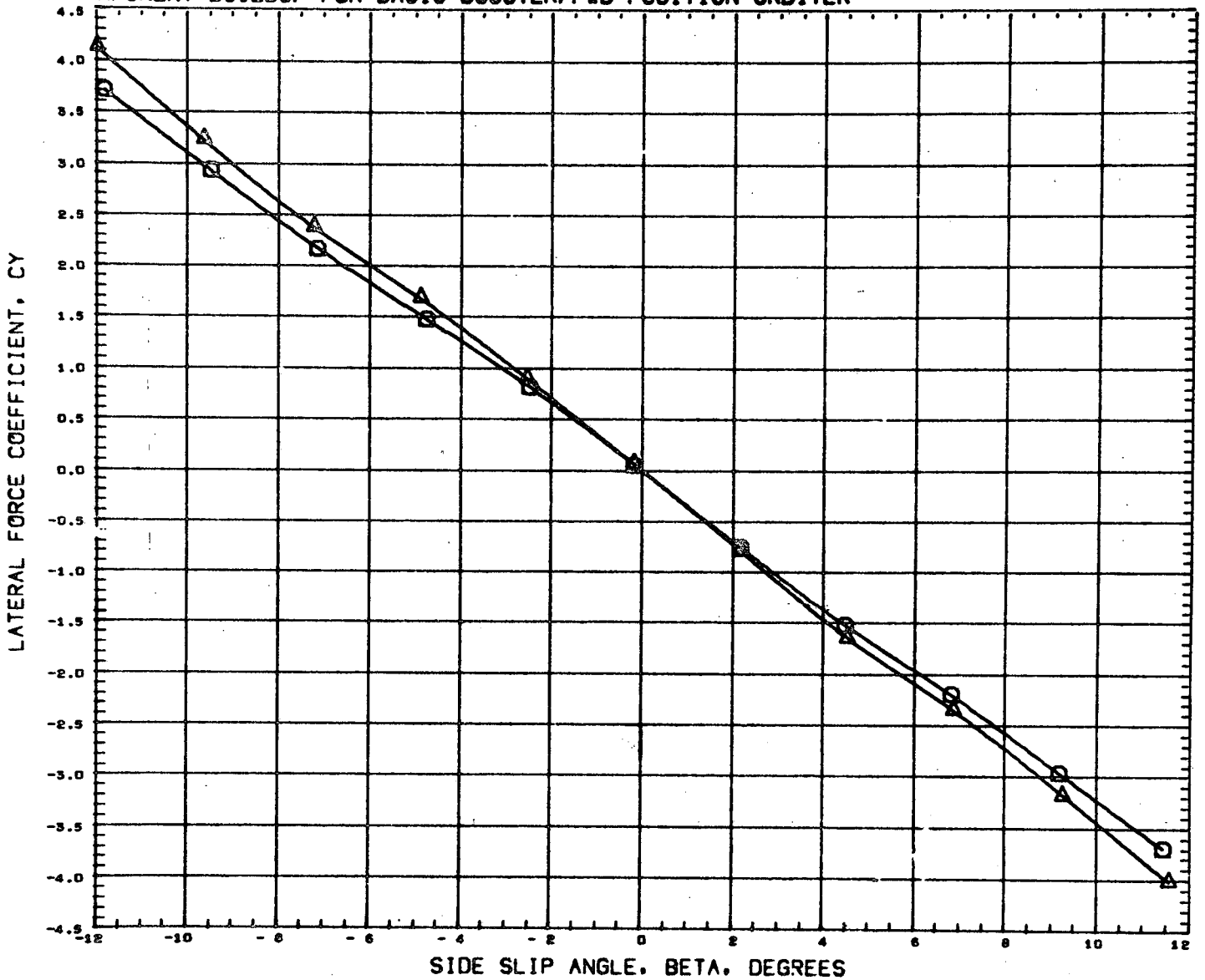
EFFECTS OF MODEL PHI = 0.45 DEGREES AT ALPHA = 0, -6 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(A90100)	MBFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(M90290)	MBFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	45.000	0.000	0.000	LREF 6.2310 INCHES
(M90220)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	BREF 1.0910 INCHES
(M90340)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-6.000	45.000	0.000	0.000	XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.200

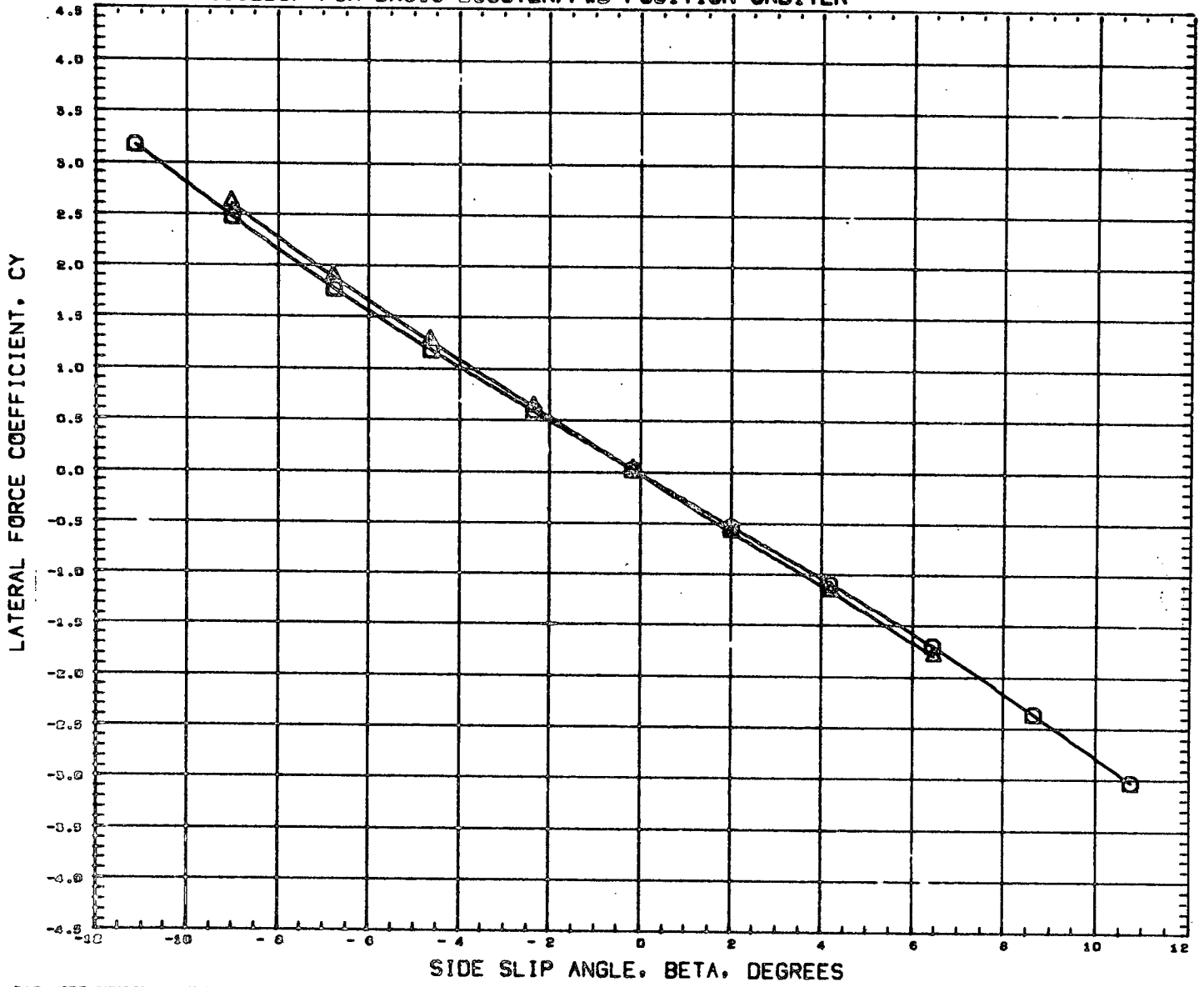
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H5036D)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(H5038D)	MSFC 512 GD/C .003566 BOOSTER/ORB. B5-R6T1002T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.460

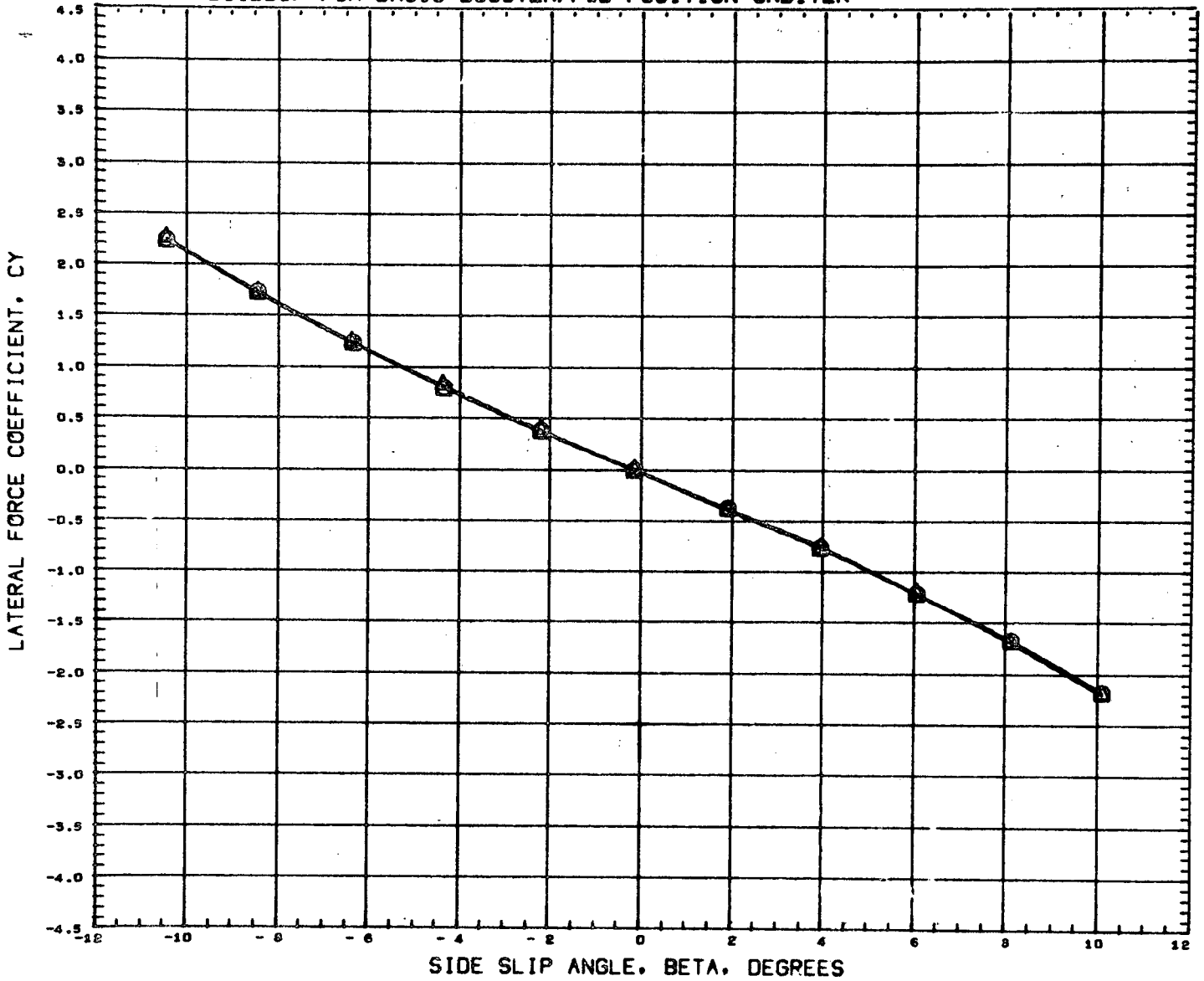
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PRIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MS0500)	MSFC 912 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 89. IN.
(MS0500)	MSFC 912 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 8.740

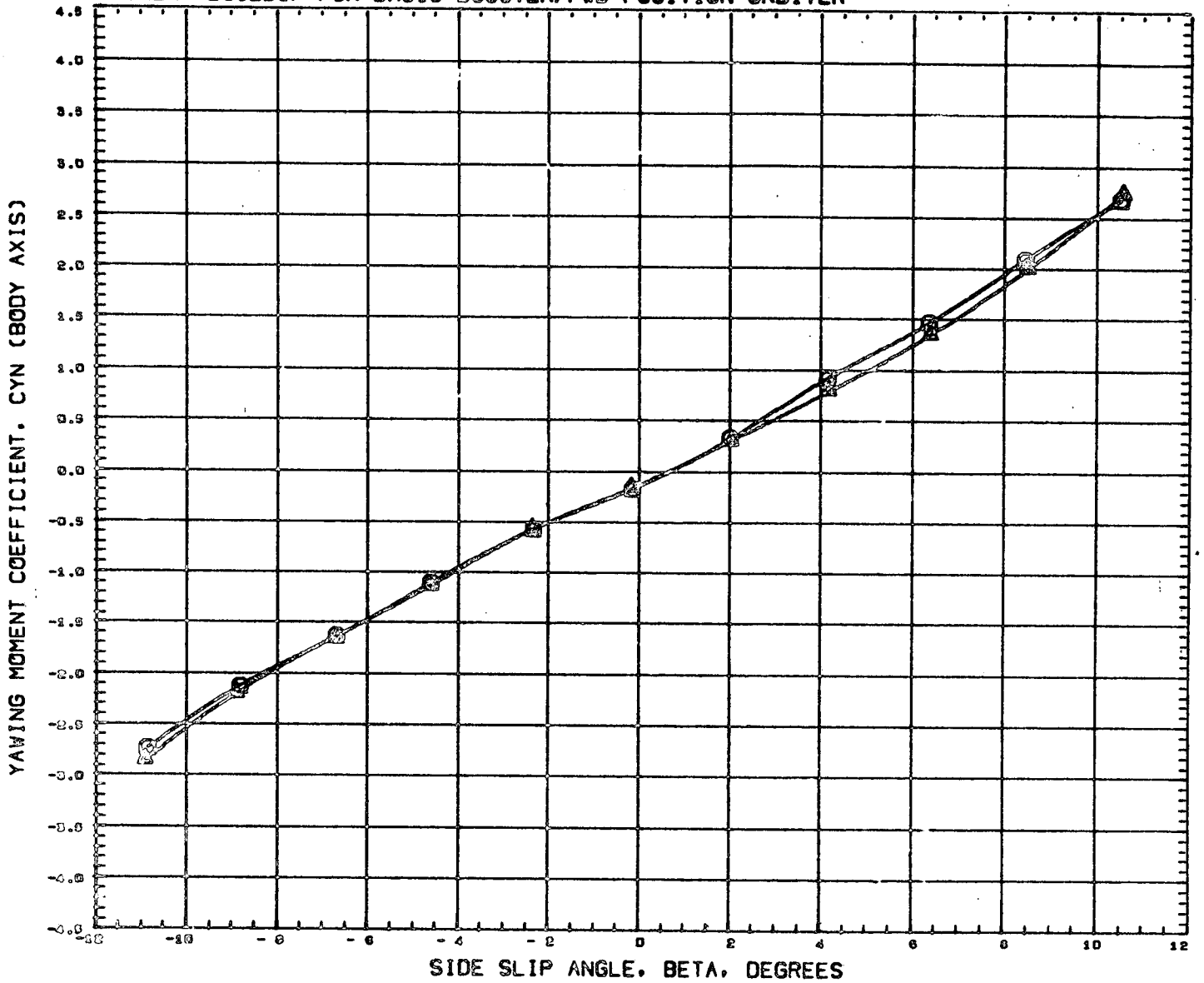
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(H50360)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(H50380)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.959

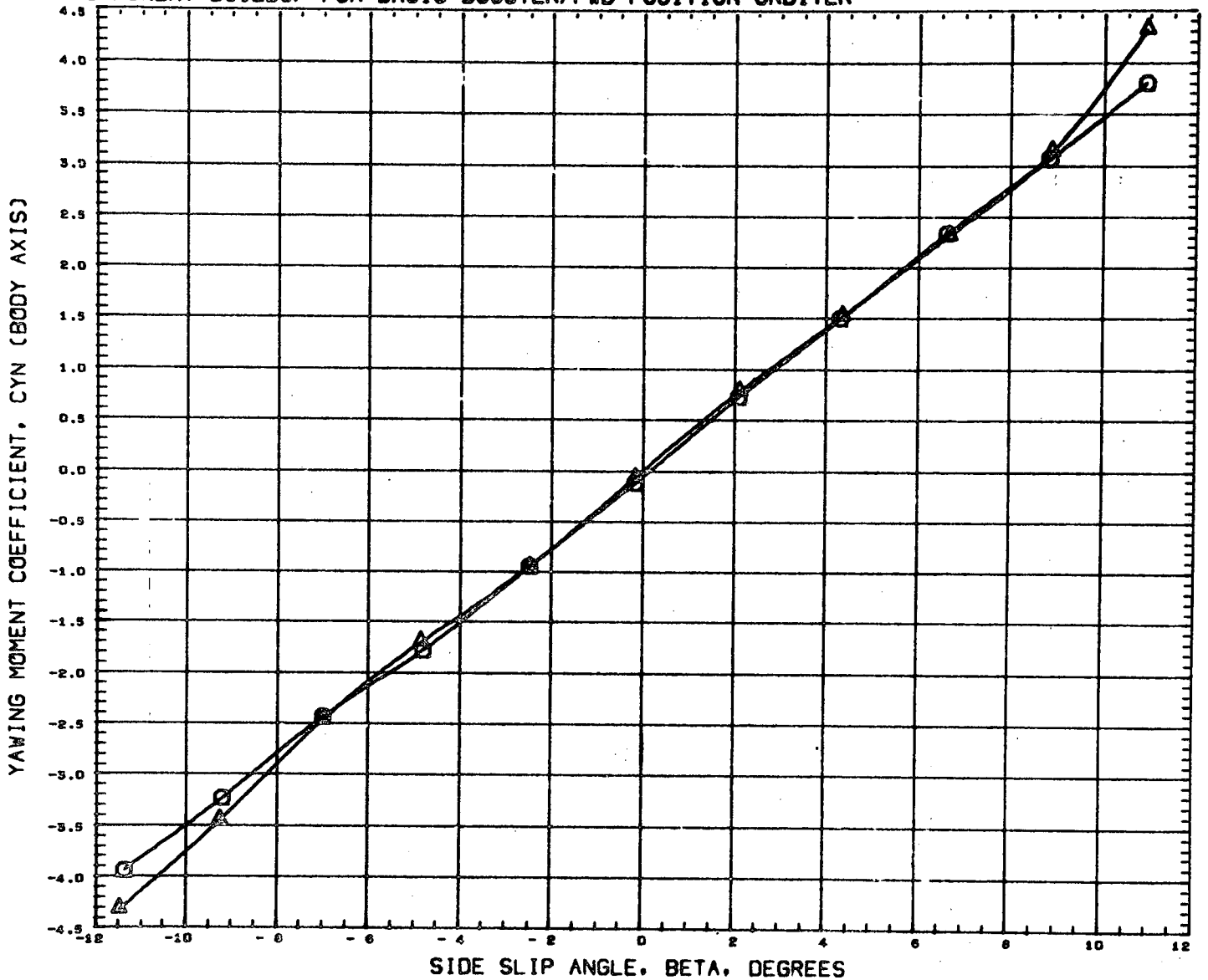
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(MS0360)	MSFC 512 6D/C .003366 BOOSTER/ORB. 534RGT1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(MS0300)	MSFC 512 6D/C .003366 BOOSTER/ORB. 534RGT1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0054

MACH 0.001

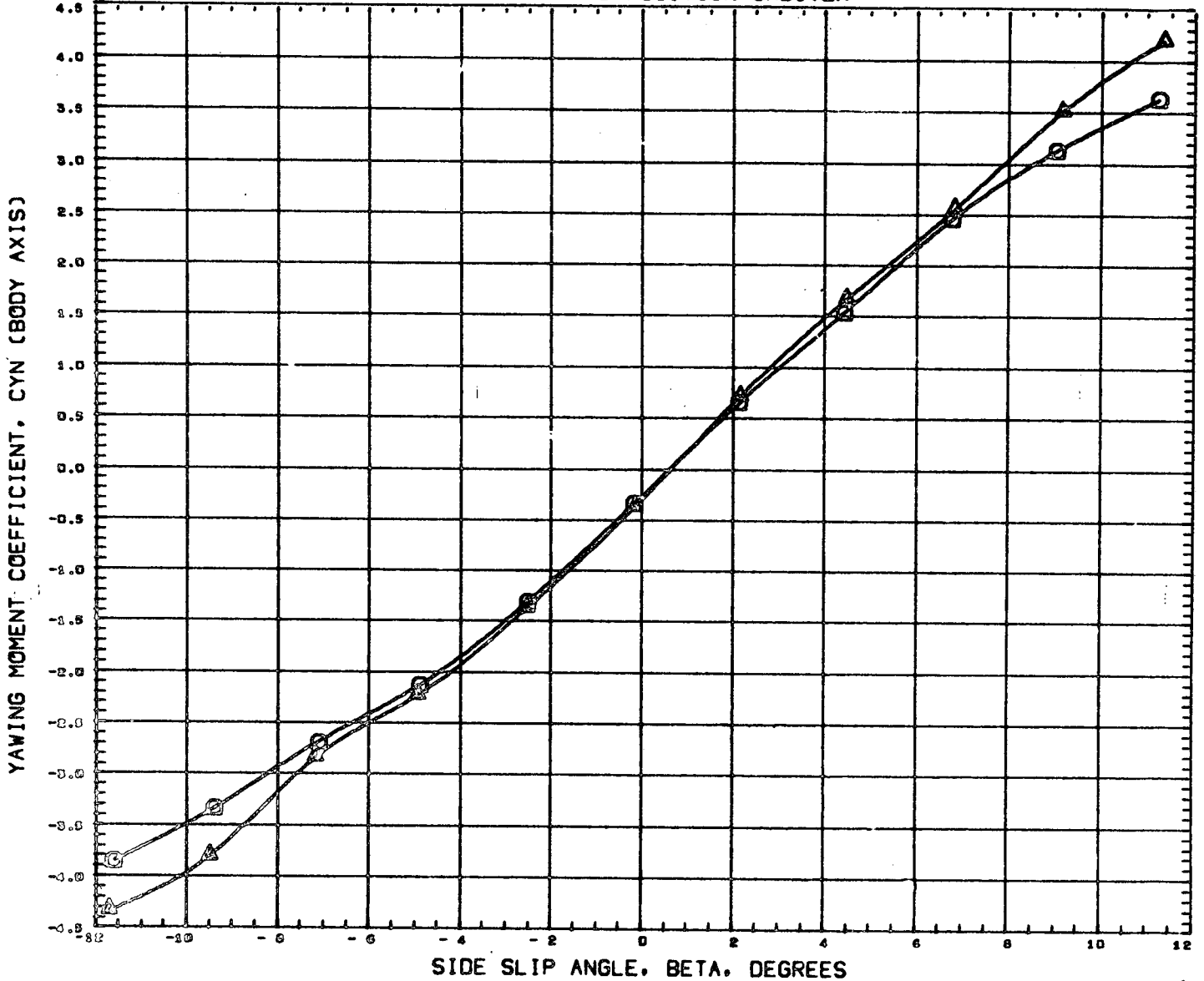
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(H50360)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 89. IN.
(H50380)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.000

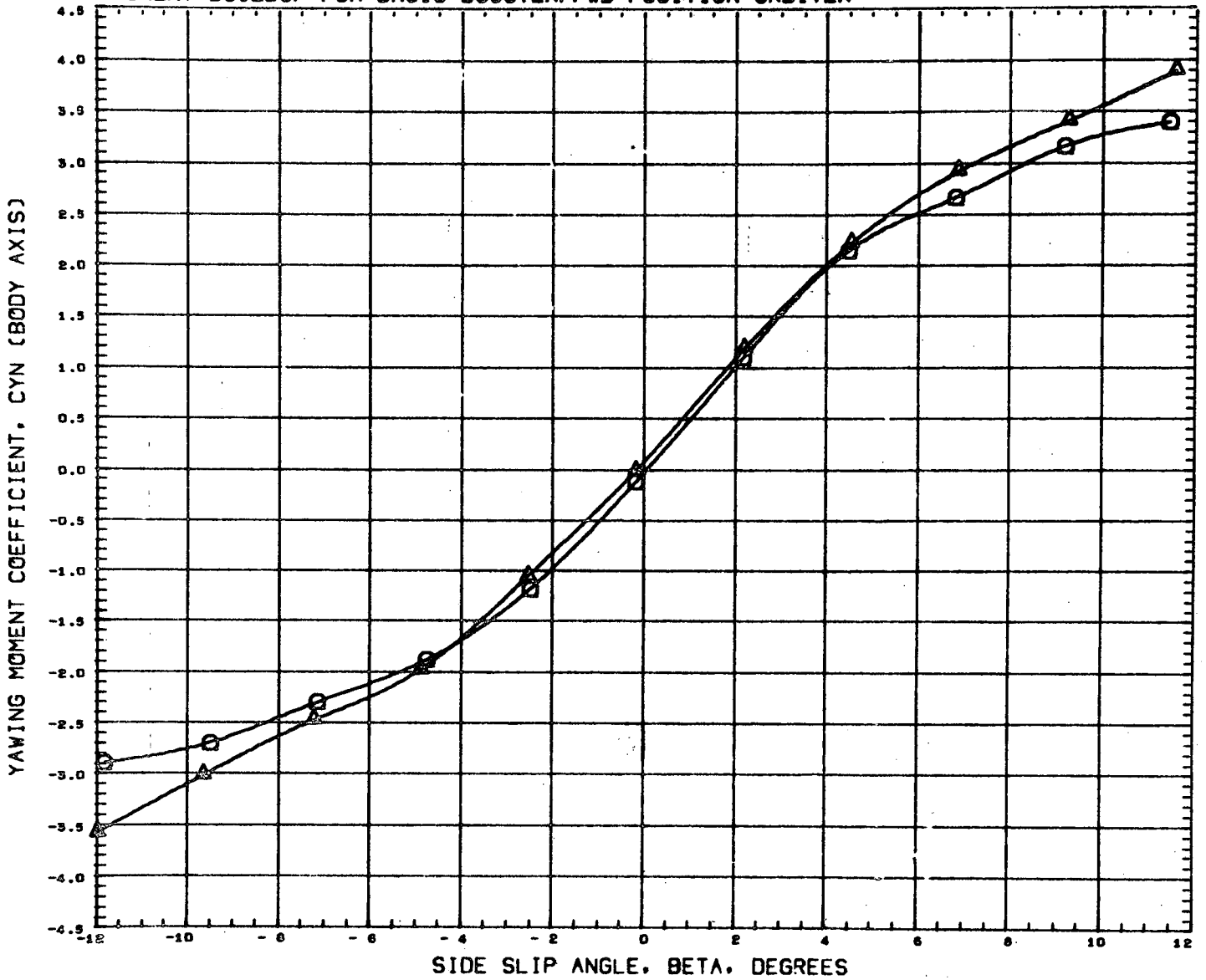
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFL ^{1P}	REFERENCE INFORMATION	
(M503G0)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	BREF	0.9350 SQ. IN.
(M503D0)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 1.102

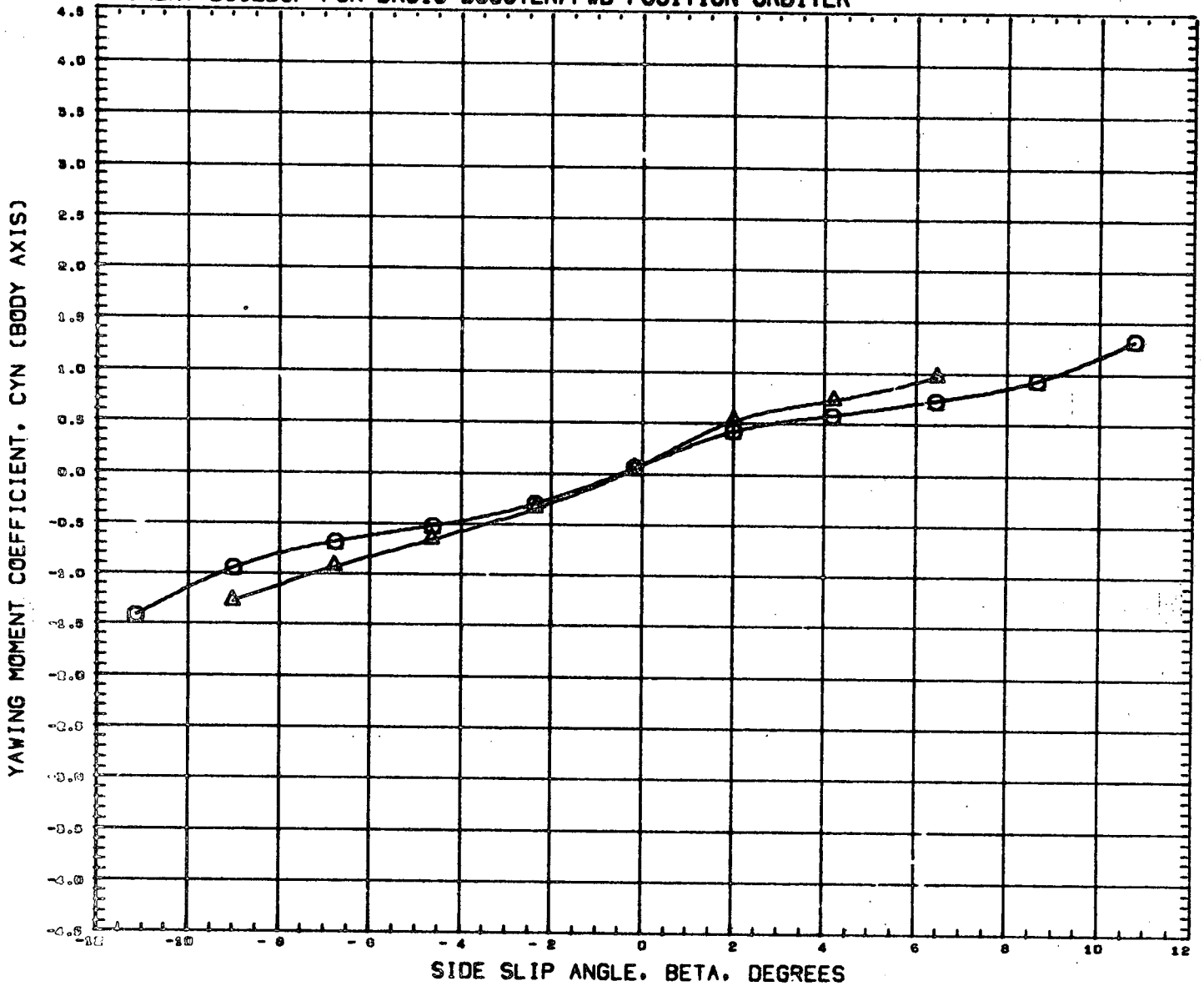
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H50300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(H50300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B3.R6T1002T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.460

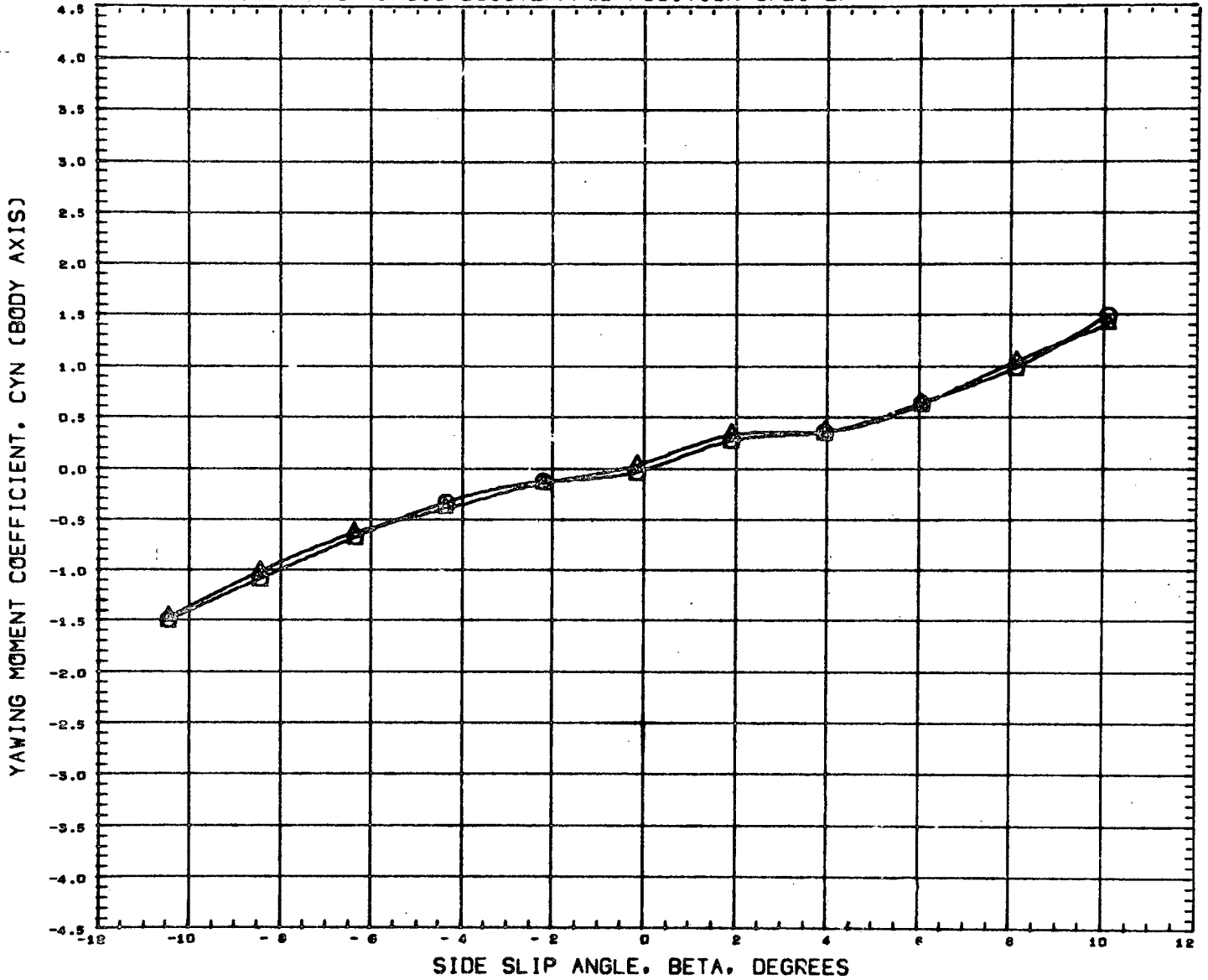
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHINOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(NS0360)	NSFC 512 GD/C .00356 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 56. IN.
(NS0300)	NSFC 512 GD/C .00356 BOOSTER/ORB. B2:R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

RACW 2.740

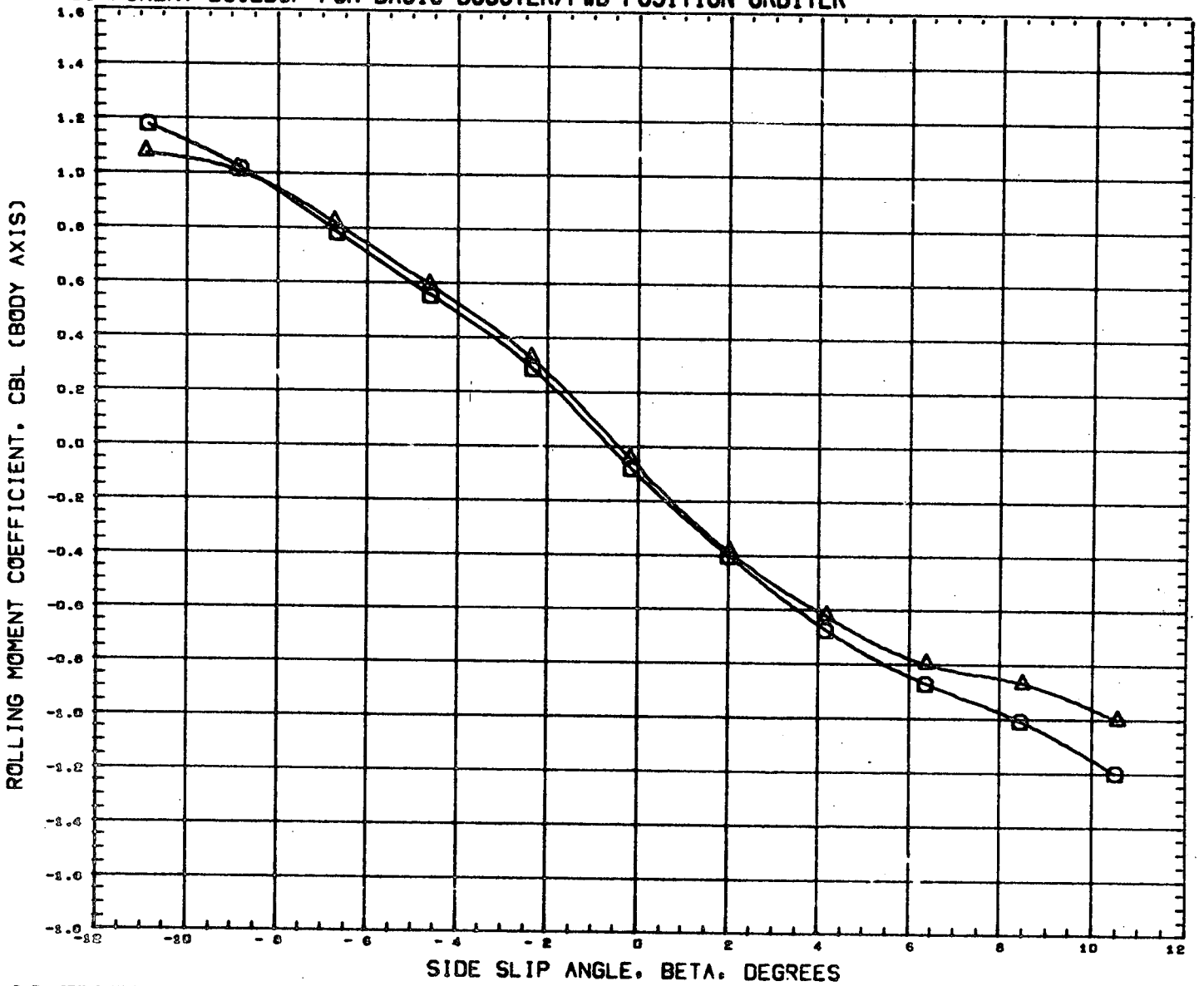
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(M90560)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 90. IN.
(M90580)	HSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.950

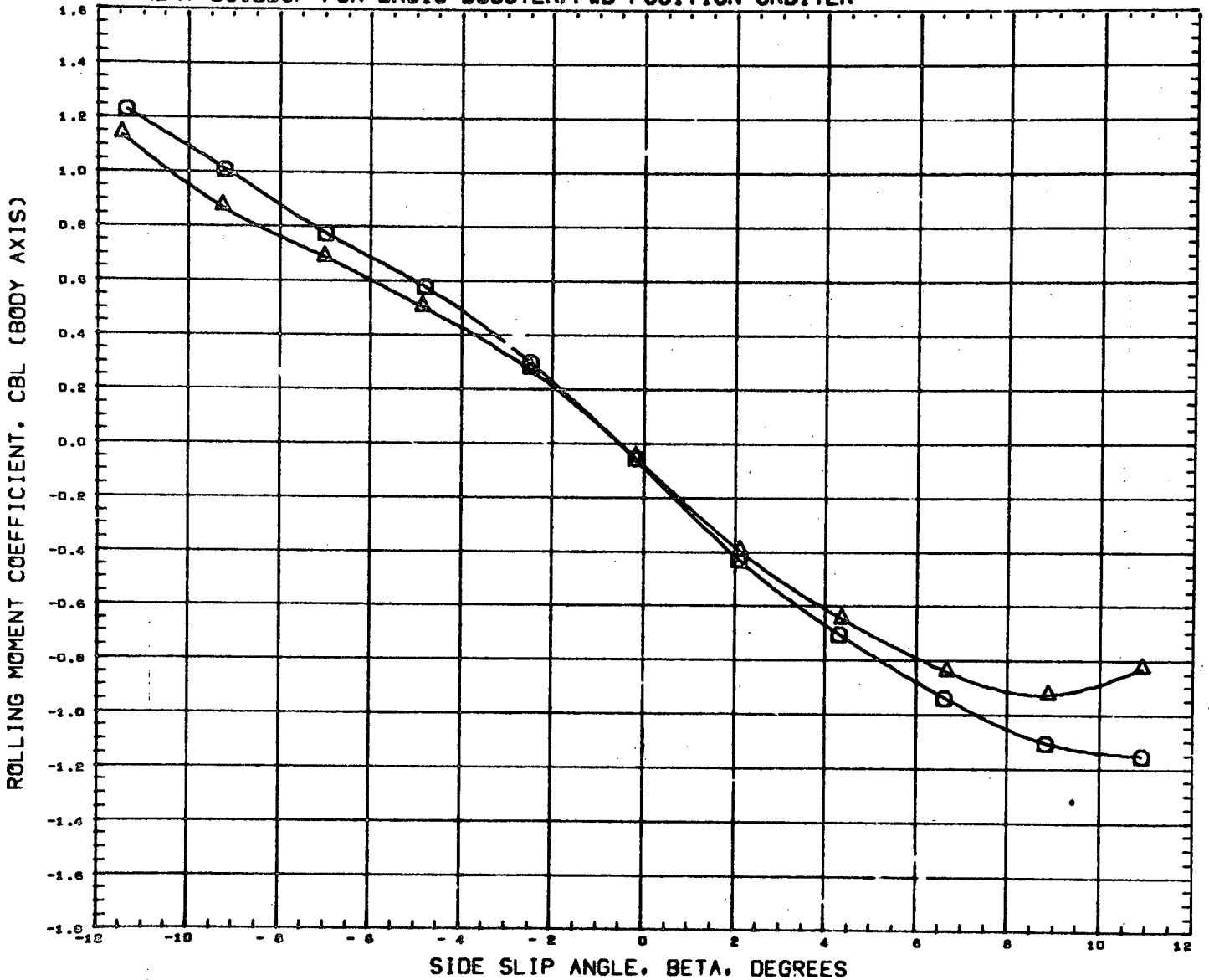
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOC	LFLAP	RFLAP	REFERENCE INFORMATION	
(H9D360)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(H9D360)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.601

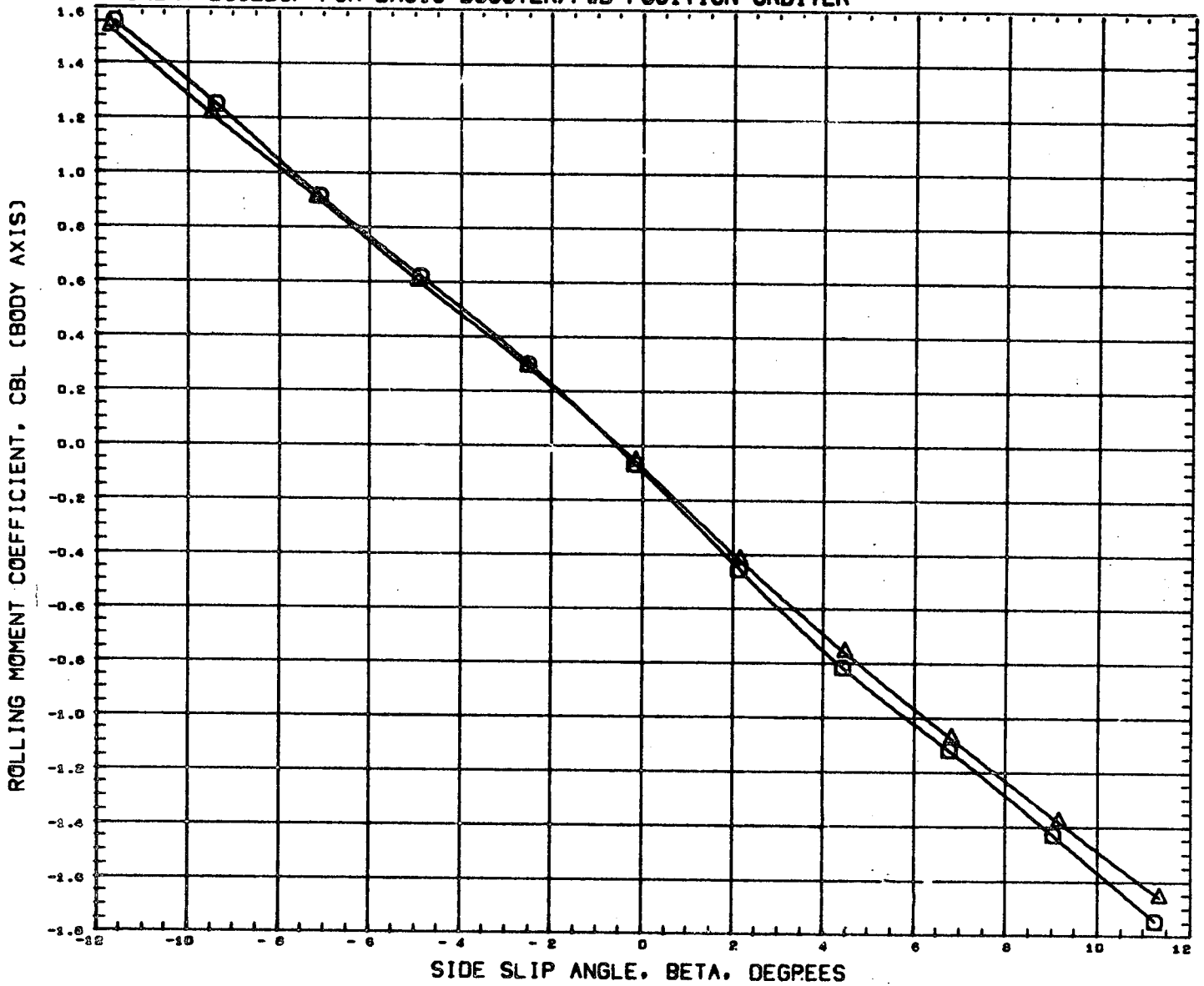
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(HS0360)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(HS0360)	MSFC 512 GD/C .003366 BOOSTER/ORB. B7:R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.900

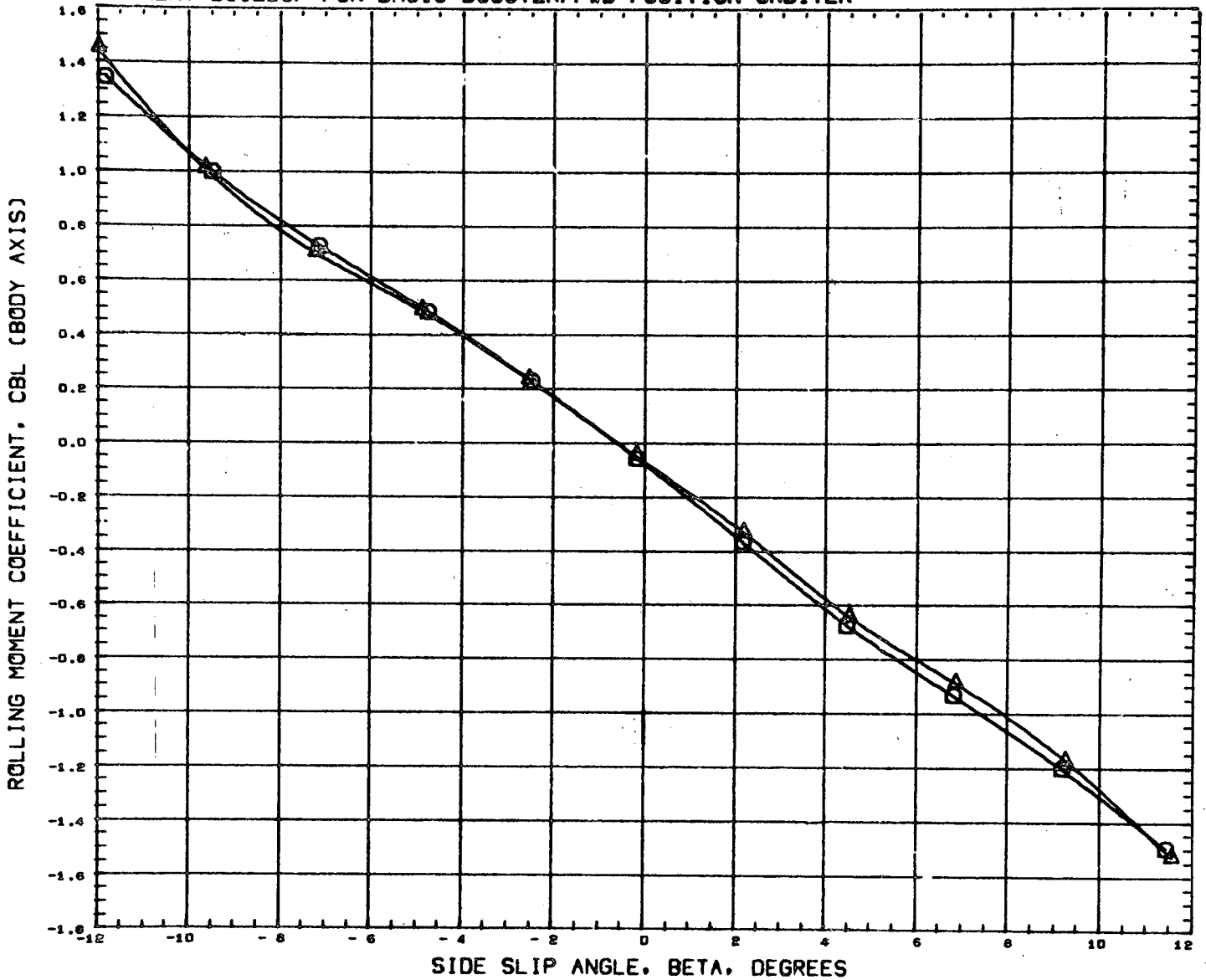
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHINCD	LFLAP	RFLAP	REFERENCE INFORMATION		
(H5036D)	MSFC 512 GD/C .00356 BOOSTER/ORB. 834R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350	98. IN.
(H5036D)	MSFC 512 GD/C .00356 BOOSTER/ORB. 834R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310	INCHES
						BREF	1.0910	INCHES
						XMRP	3.7920	INCHES
						YMRP	0.0000	INCHES
						ZMRP	0.0000	INCHES
						SCALE	0.0034	

MACH 1.102

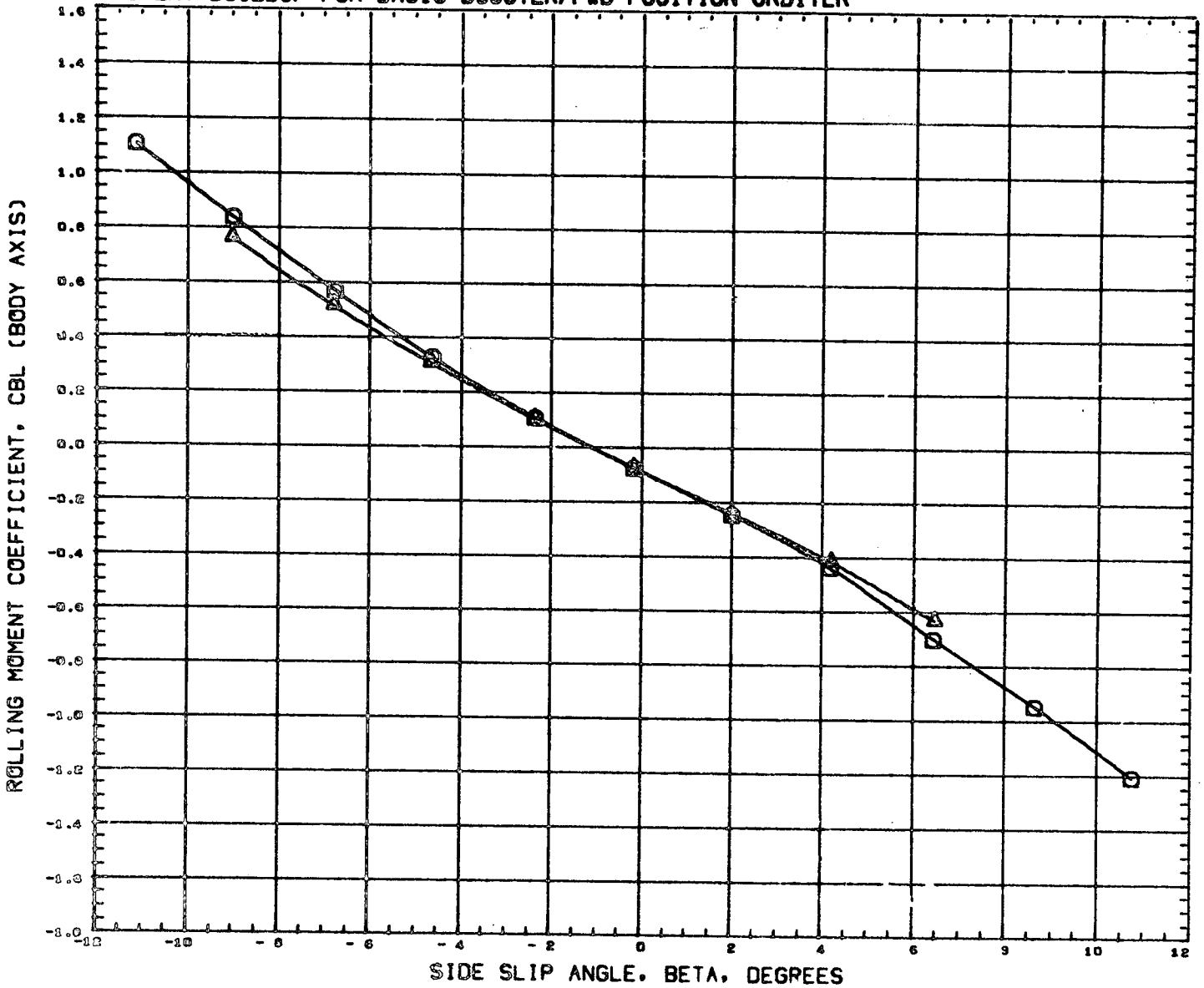
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H30300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	SREF 0.9350 80. IN.
(H50300)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1D02T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.460

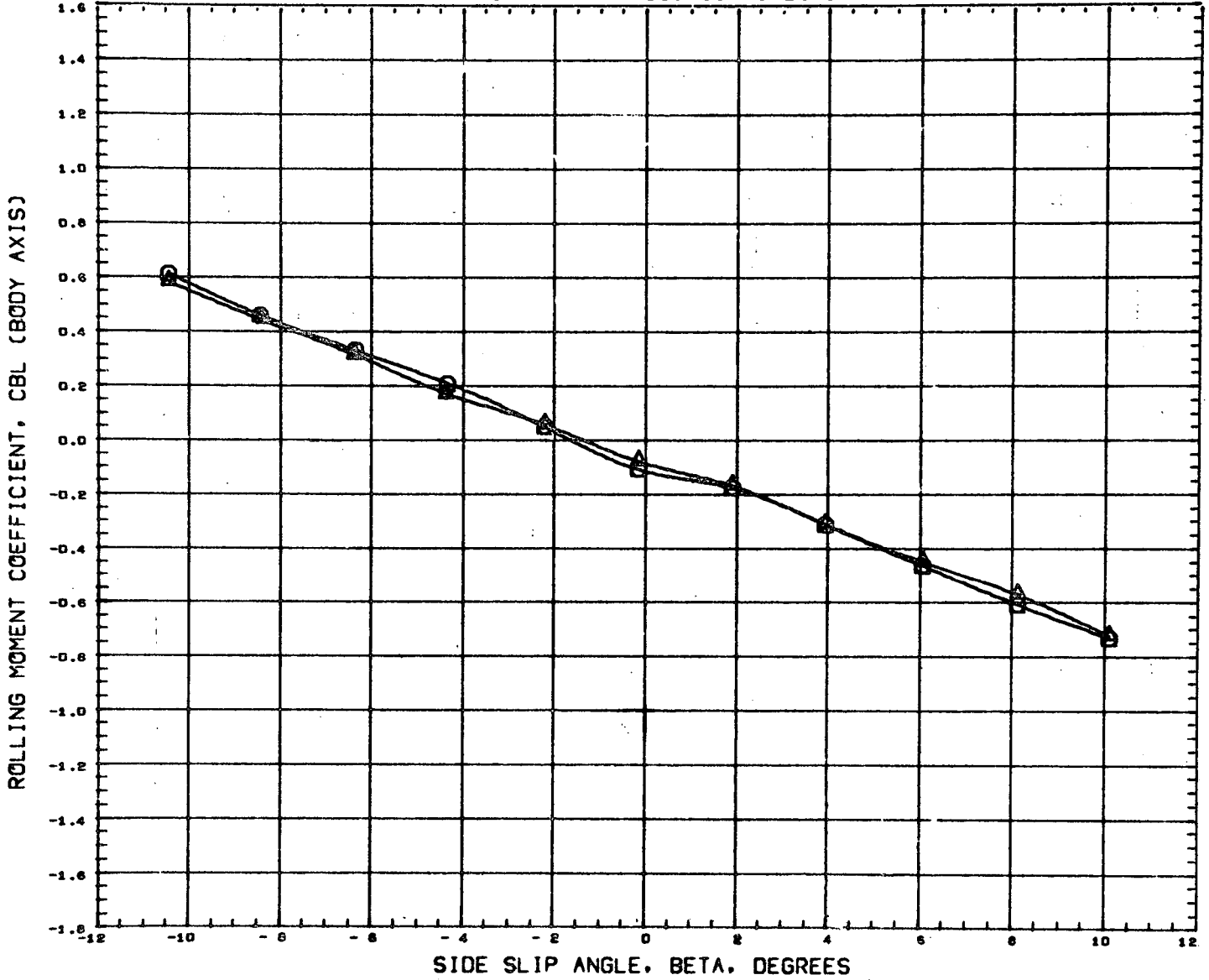
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MS0360)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9390 SQ. IN.
(MS0360)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACM 2.740

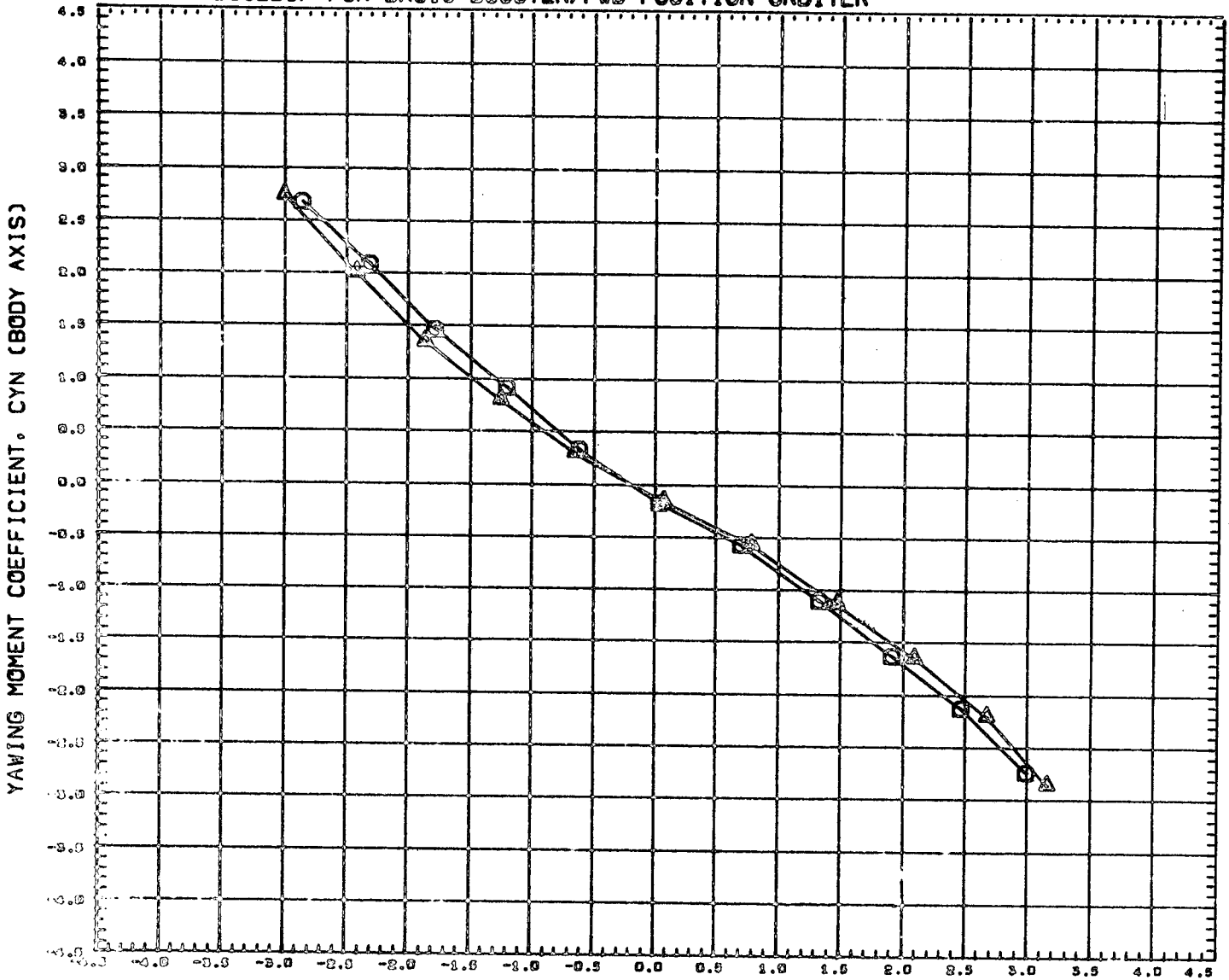
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION		
(MS0360)	MSFC 512 GD/C .003366 BOOSTER/ORB. 834R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350	94. IN.
(MS0300)	MSFC 512 GD/C .003366 BOOSTER/ORB. 834R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310	INCHES
						BREF	1.0910	INCHES
						XMRP	3.7920	INCHES
						YMRP	0.0000	INCHES
						ZMRP	0.0000	INCHES
						SCALE	0.0034	

MACH 4.950

COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER

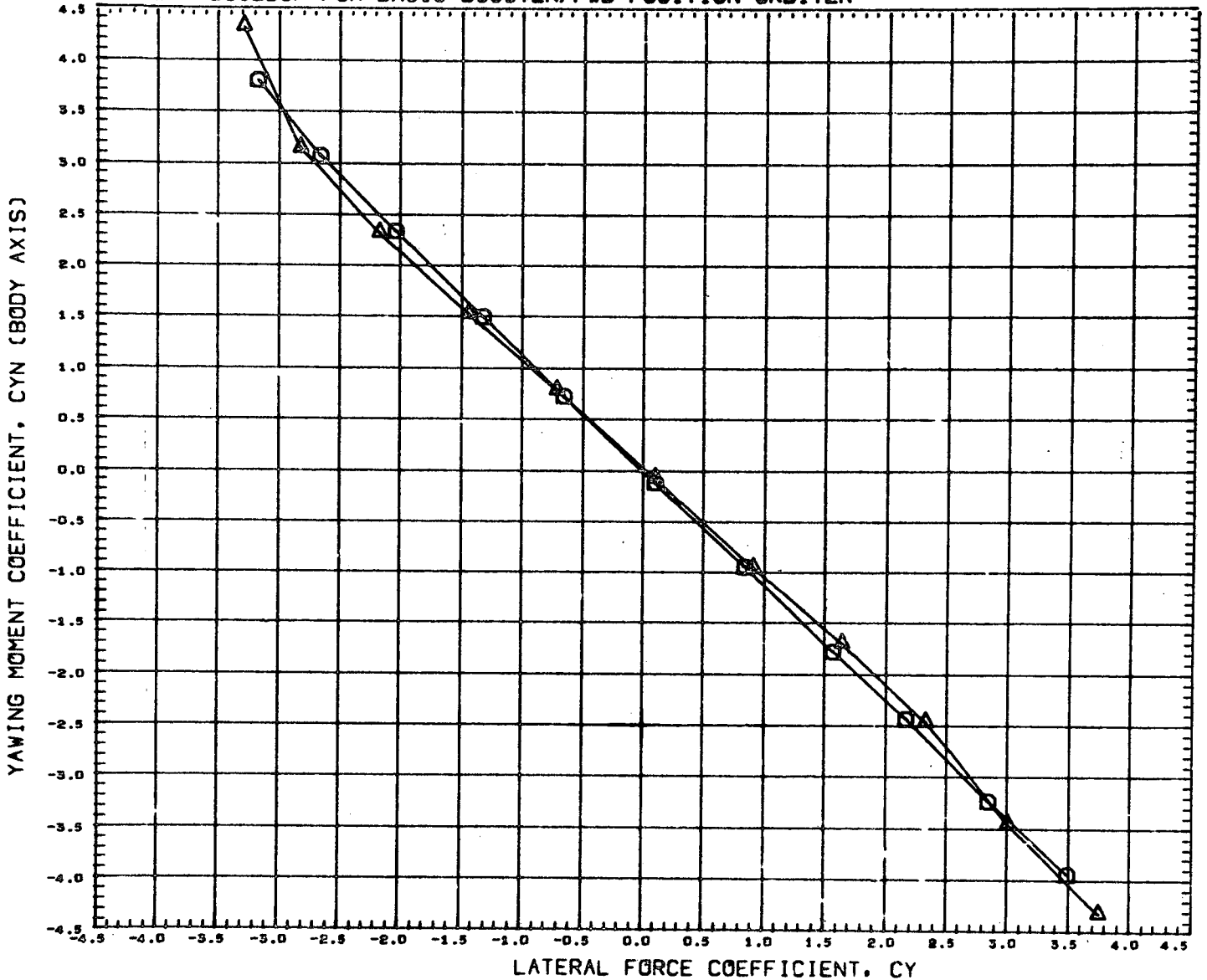


LATERAL FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION		
(MS0360)	MSFC 512 6D/C .003366 BOOSTER/ORD. 034R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350	58. IN.
(MS0361)	MSFC 512 6D/C .003366 BOOSTER/ORD. 034R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310	INCHES
						BREF	1.0910	INCHES
						XMRP	3.7920	INCHES
						YMRP	0.0000	INCHES
						ZMRP	0.0000	INCHES
						SCALE	0.0034	

SCALE 0.003

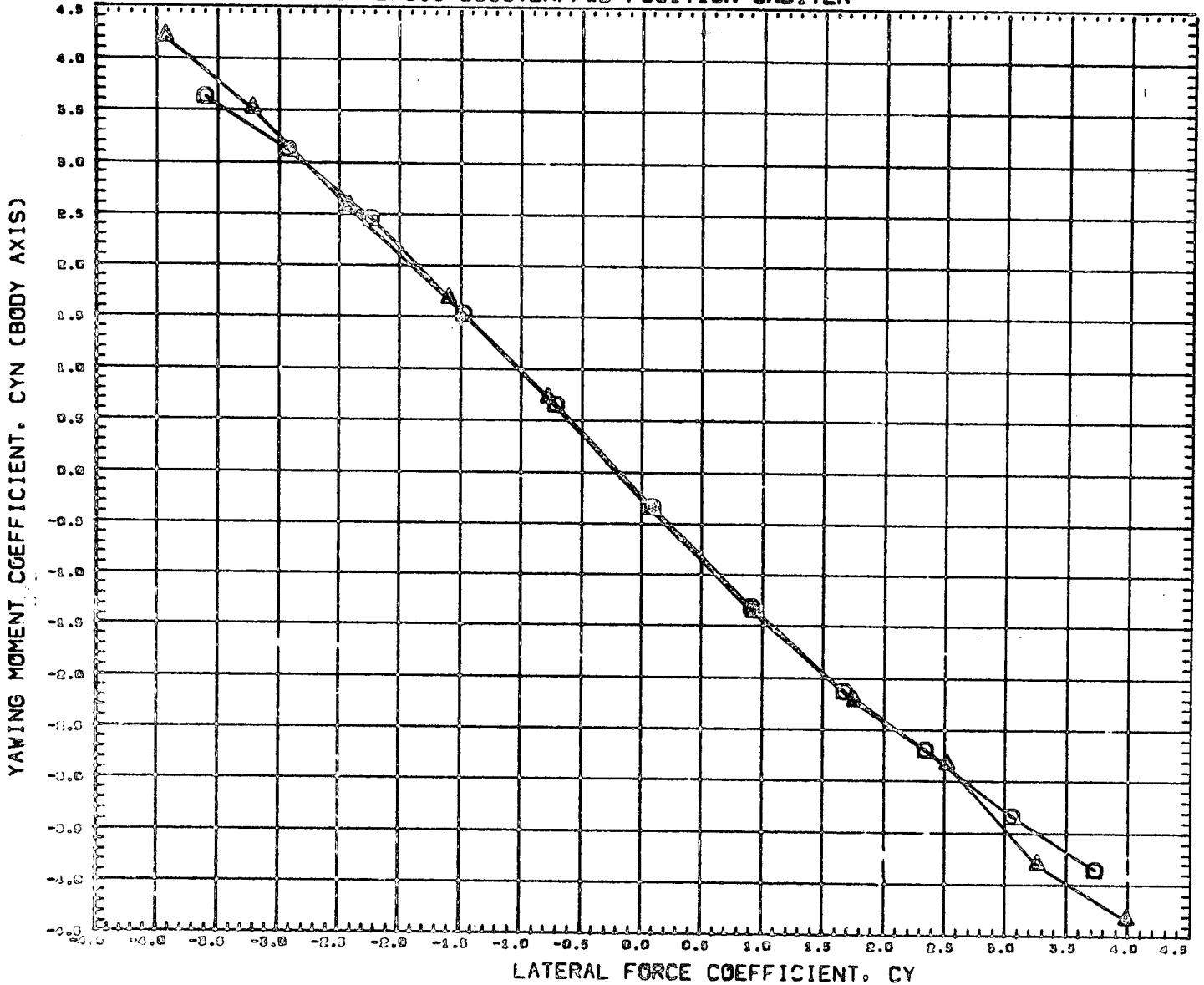
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(H50360)	MSFC 512 GD/C .00366 BOOSTER/ORB. B54R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(H50380)	MSFC 512 GD/C .00366 BOOSTER/ORB. B347.0T1002T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRF 3.7920 INCHES
						YMRF 0.0000 INCHES
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						SCALE 0.0034

MACH 0.000

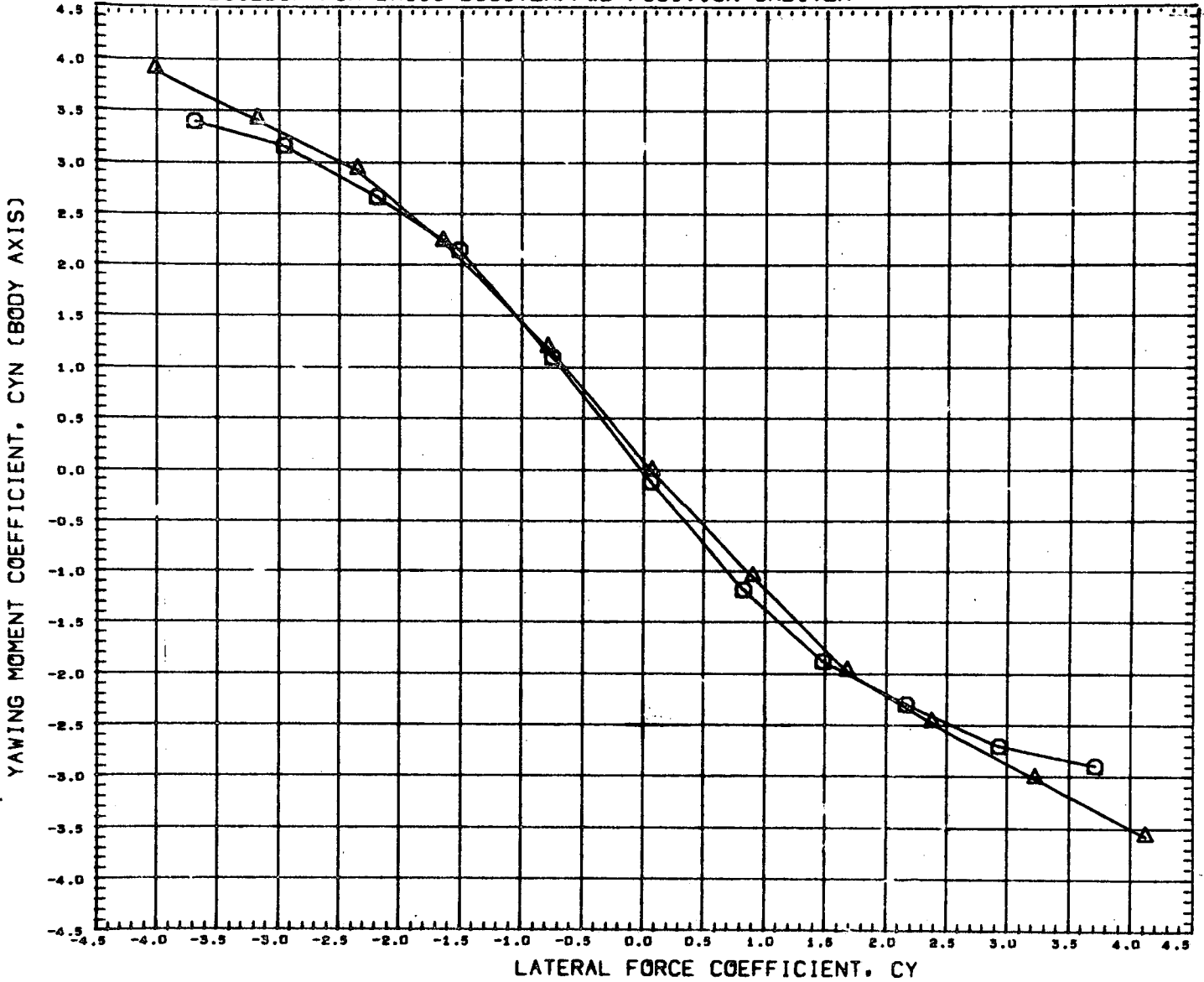
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(MS0360)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(MS0360)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0810 INCHES
						YMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACM 1.102

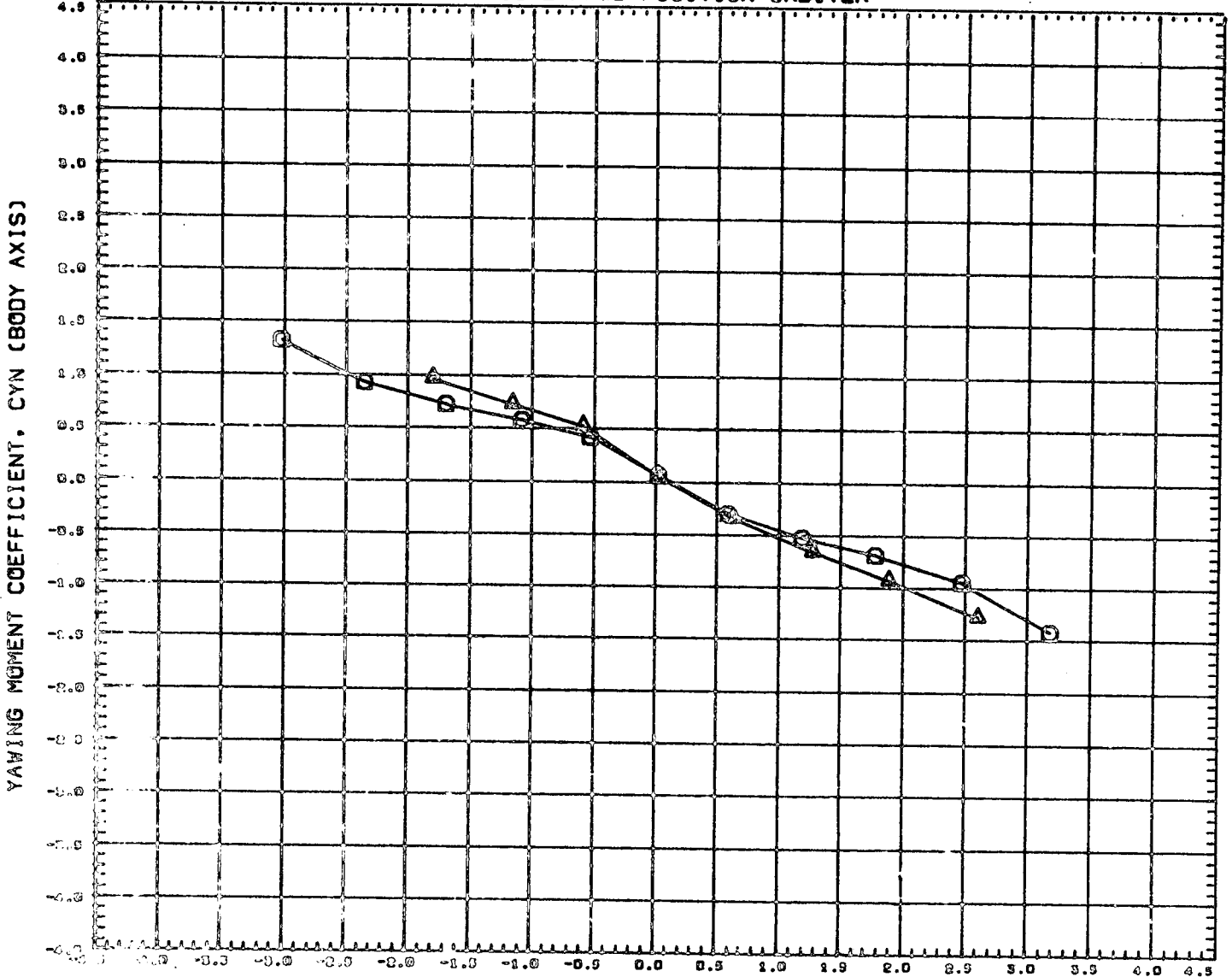
COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(MS0360) \odot	MSFC 512 GD/C .003366 BOOSTER/ORB. B54R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 90 IN.
(MS0380) \triangle	MSFC 512 GD/C .003366 BOOSTER/ORB. B54R6T1002T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 1.460

COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER

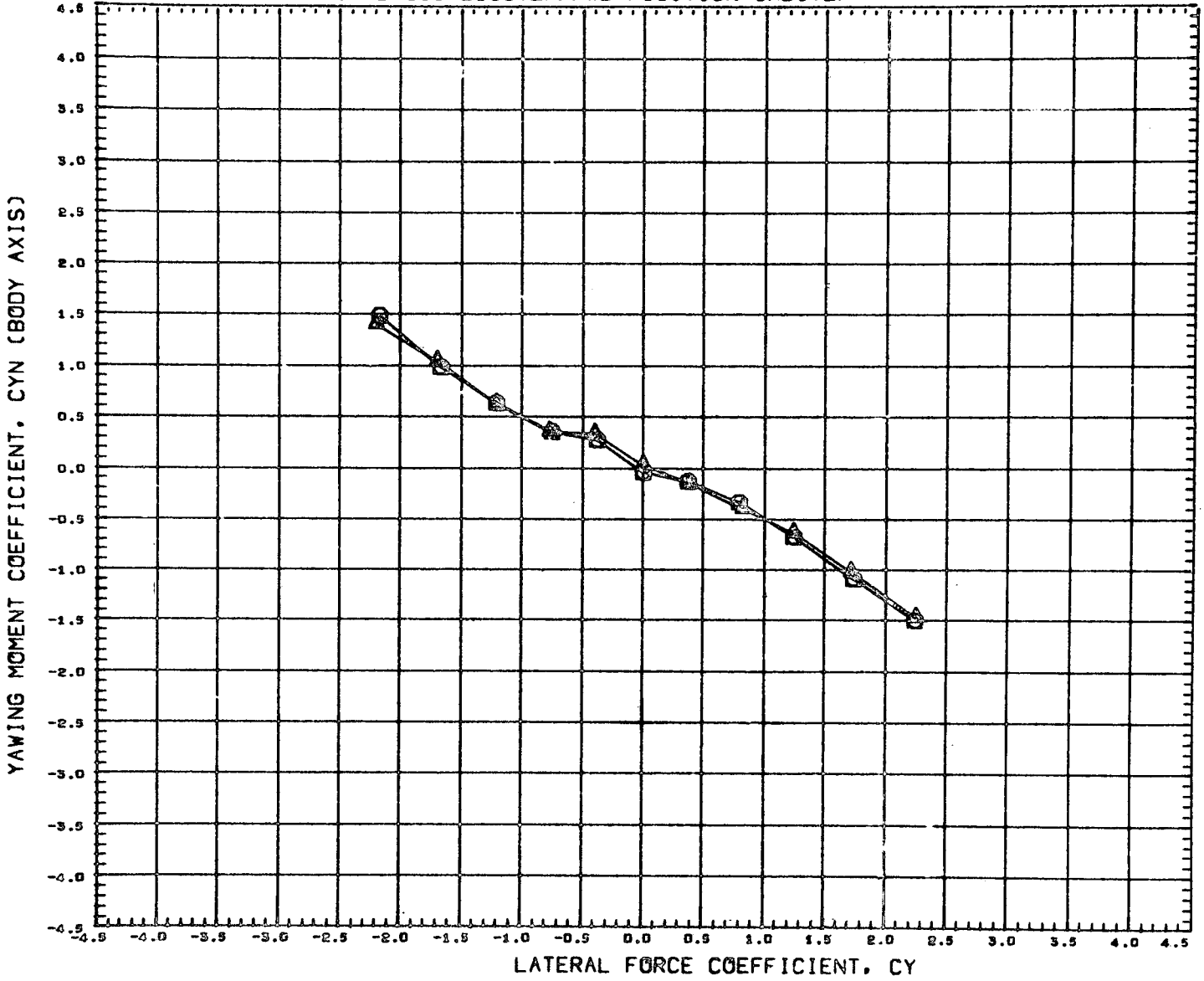


LATERAL FORCE COEFFICIENT, C_Y

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(MS0500)	MSFC 512 6D/C .003366 BOOSTER/ORB. 834R6T1002T3	0.000	0.000	0.000	0.000	GREF	0.9350 90.IN.
(MS0300)	MSFC 512 6D/C .003366 BOOSTER/ORB. 834R6T1002T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0010 INCHES
						XHRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

2.740

COMPONENT BUILDUP FOR BASIC BOOSTER/FWD POSITION ORBITER

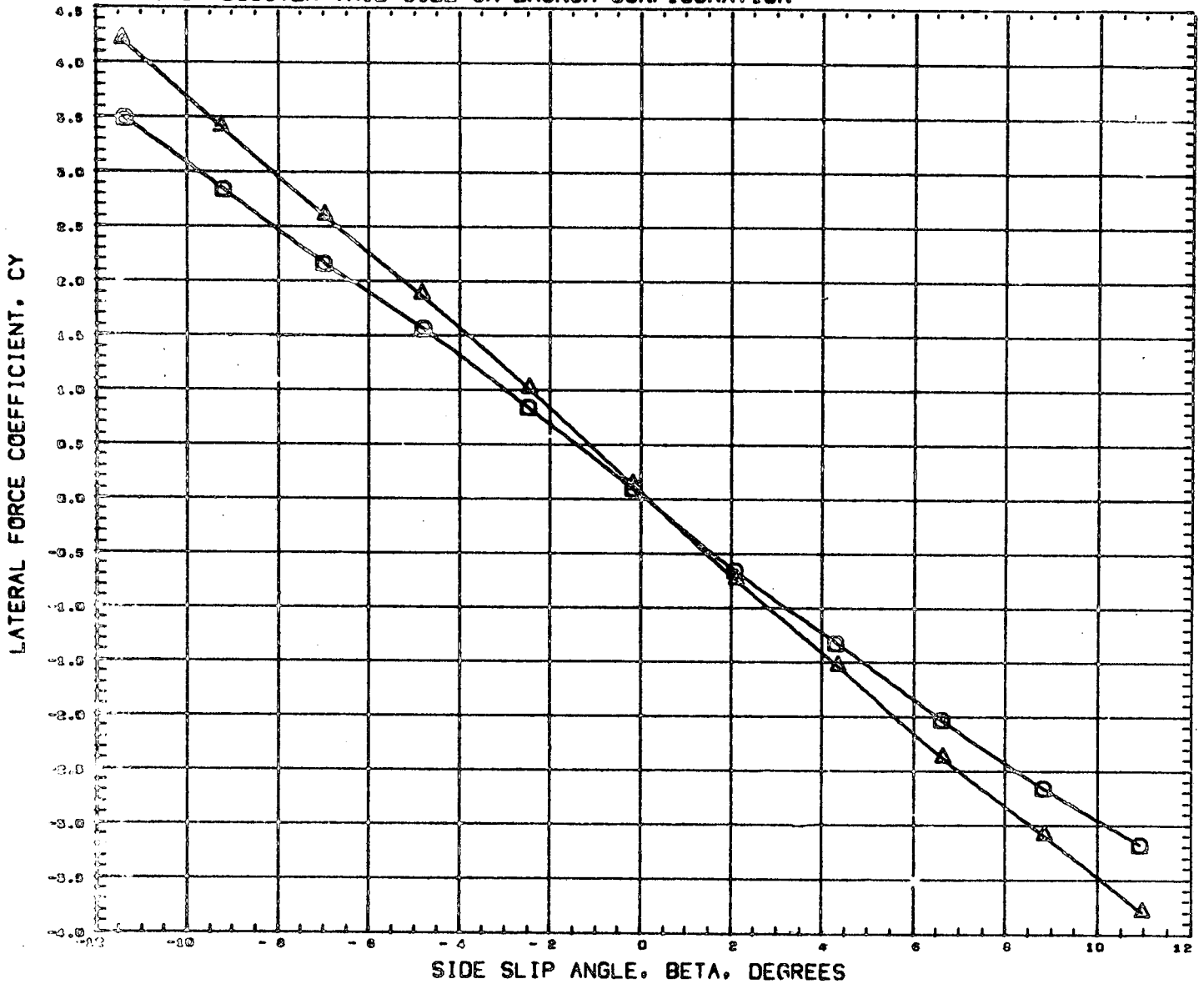


LATERAL FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(MS0360)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	1.000	SREF	0.9350 SQ. IN.
(MS0300)	M8FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	1.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XHRP	3.7920 INCHES
						YHRP	0.0000 INCHES
						ZHRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.990

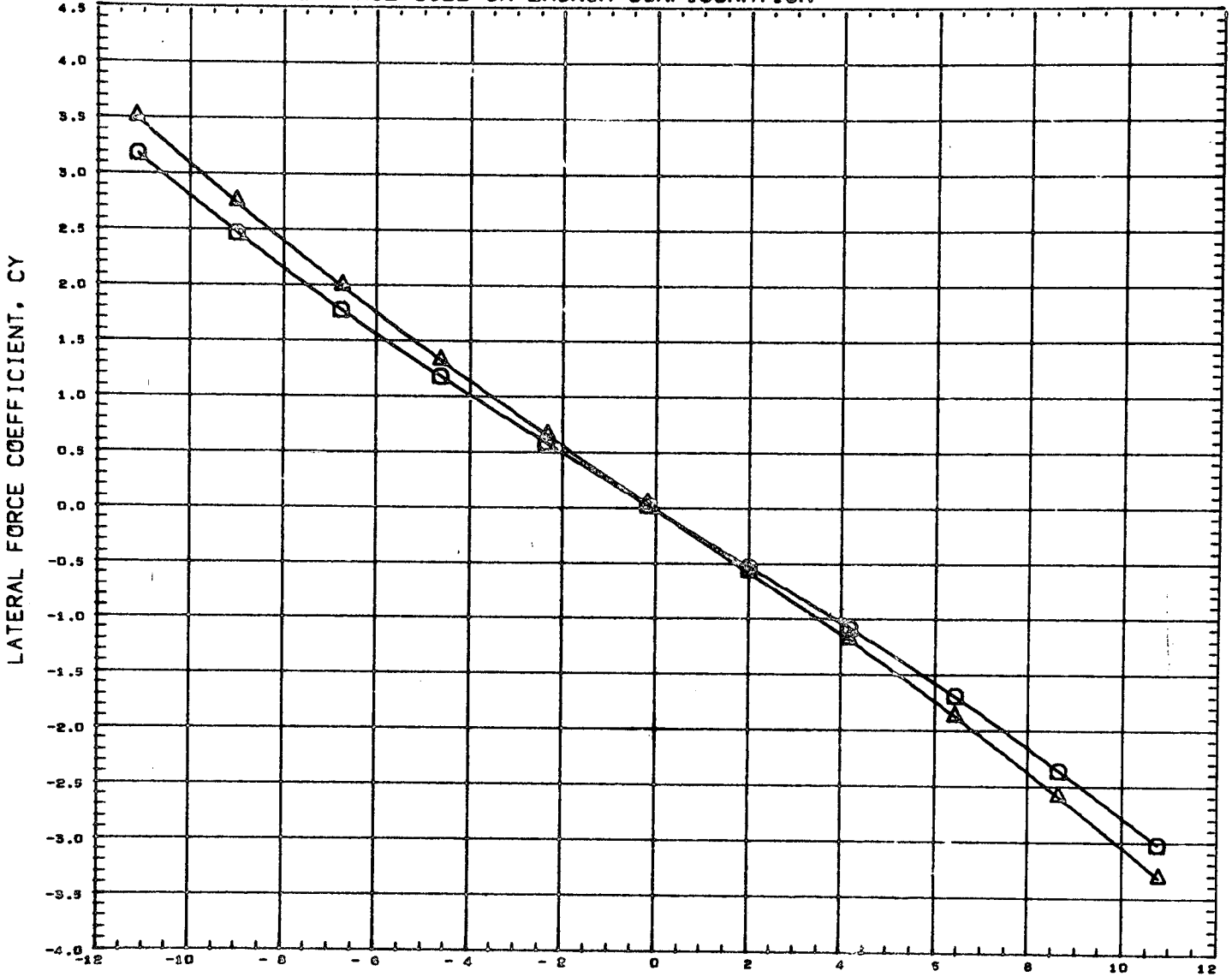
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA DEV SYMBO	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(AS026A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 80. IN.
(AS030A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 0.000

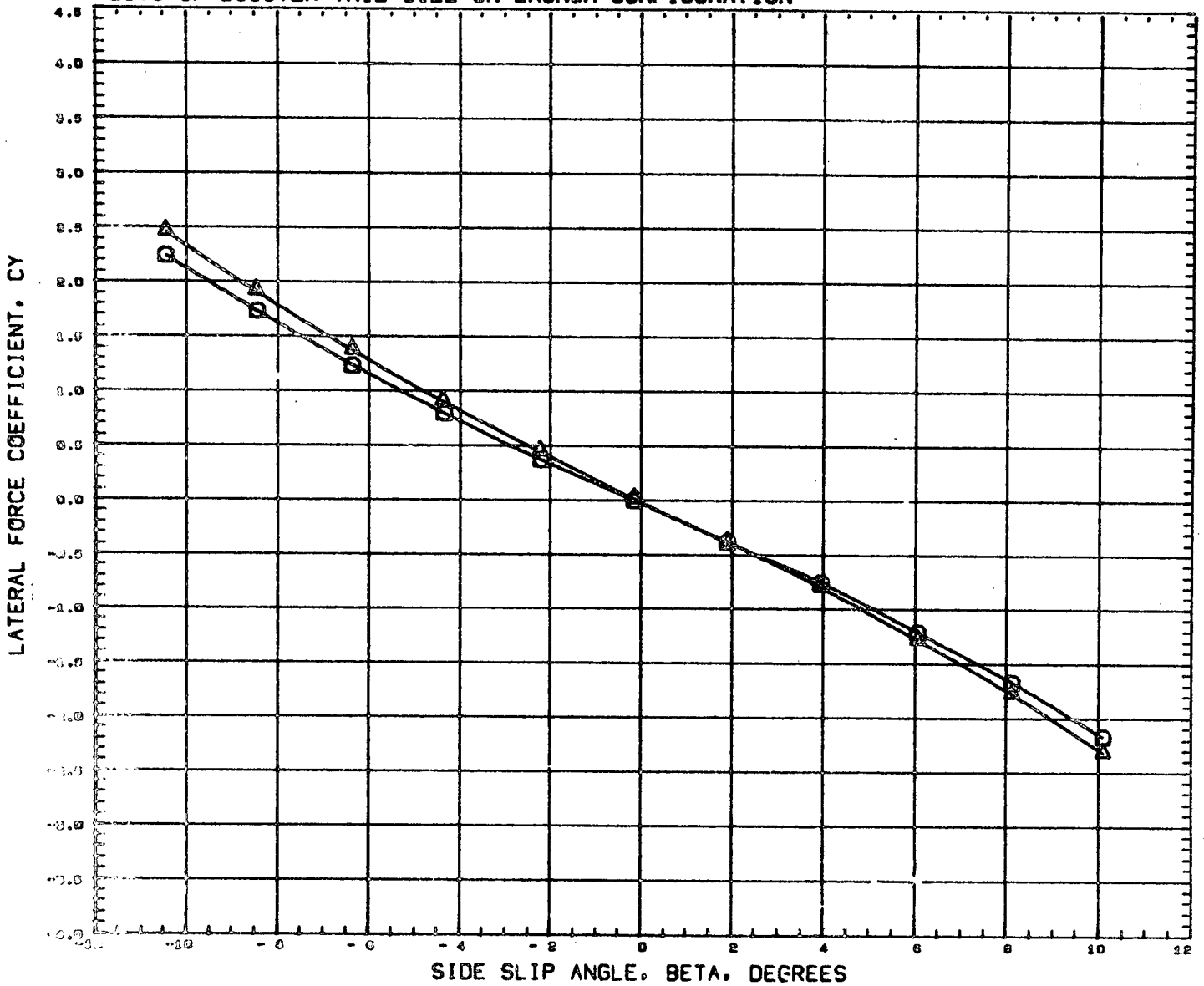
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RCLAP	REFERENCE INFORMATION
(A5036A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	3.000	SREF 0.9350 SQ. IN. LREF 6.2310 INCHES BREF 1.0910 INCHES XMRP 3.7920 INCHES YMRP 0.0000 INCHES ZMRP 0.0000 INCHES SCALE 0.0034
(A5039A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	1.000	

HACH E.740

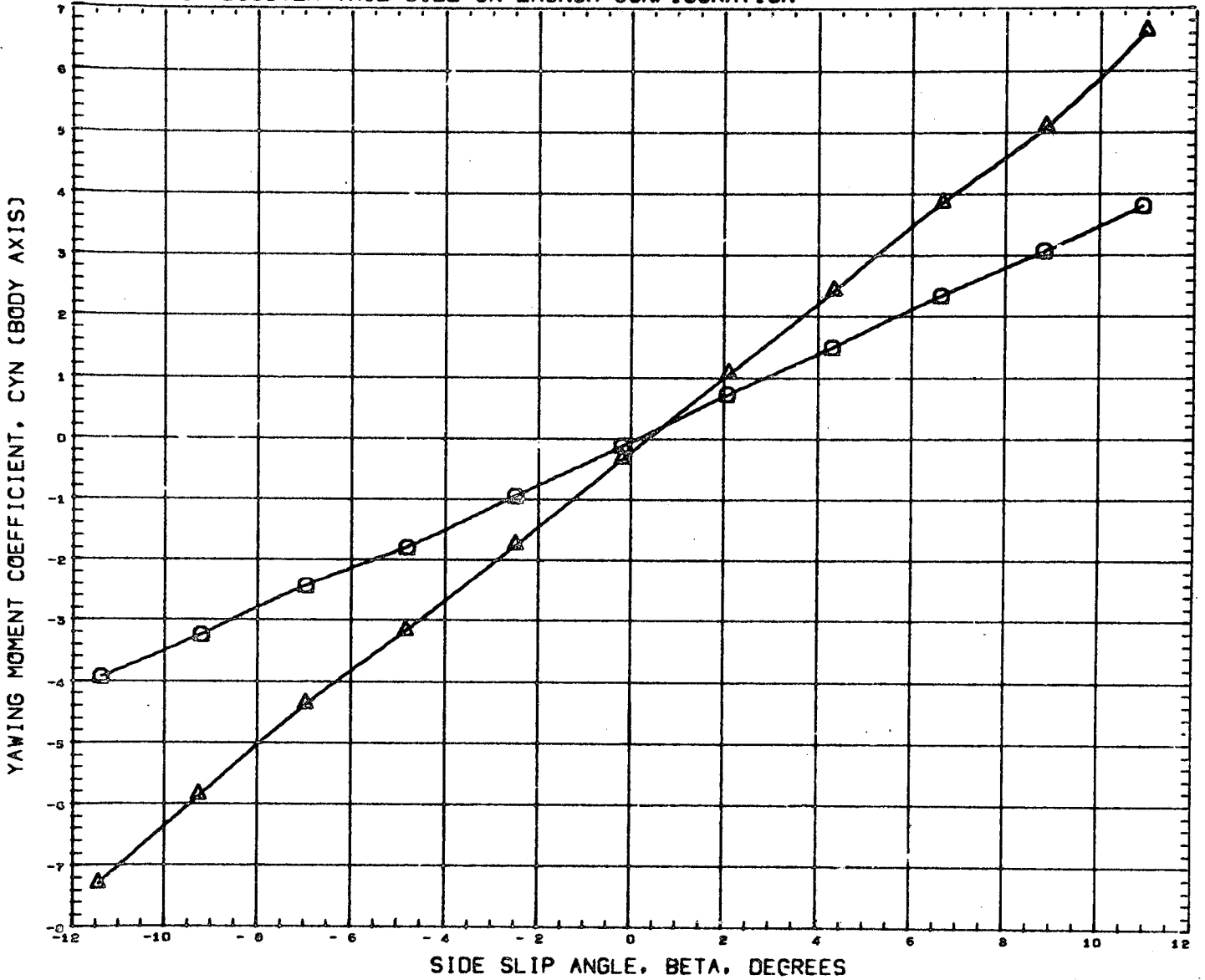
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(A5036A)	M87C 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(A5039A)	M87C 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0810 INCHES
						XMRP	5.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.000

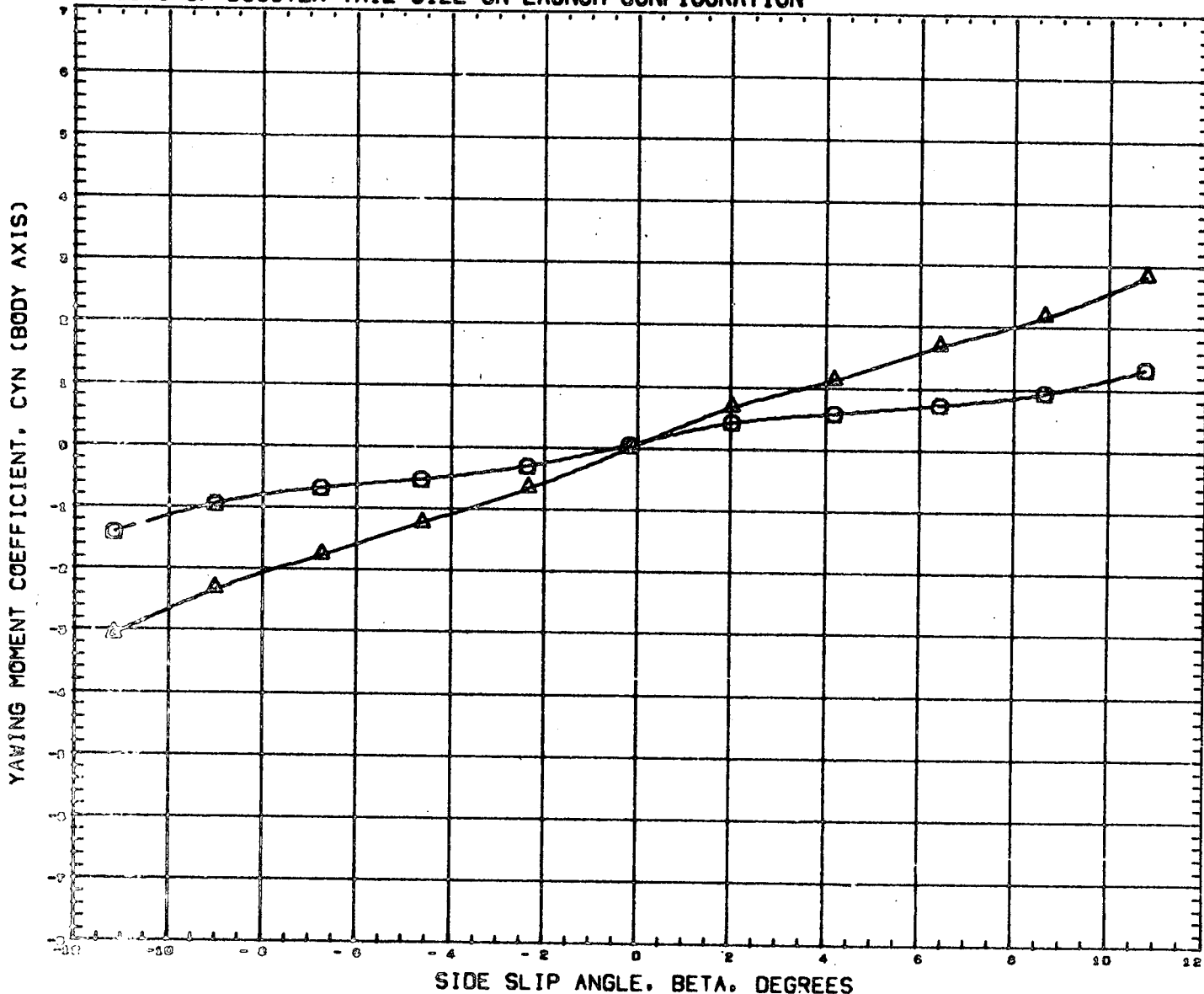
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(A5036A)	MSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 90. IN.
(A5039A)	MSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 0.950

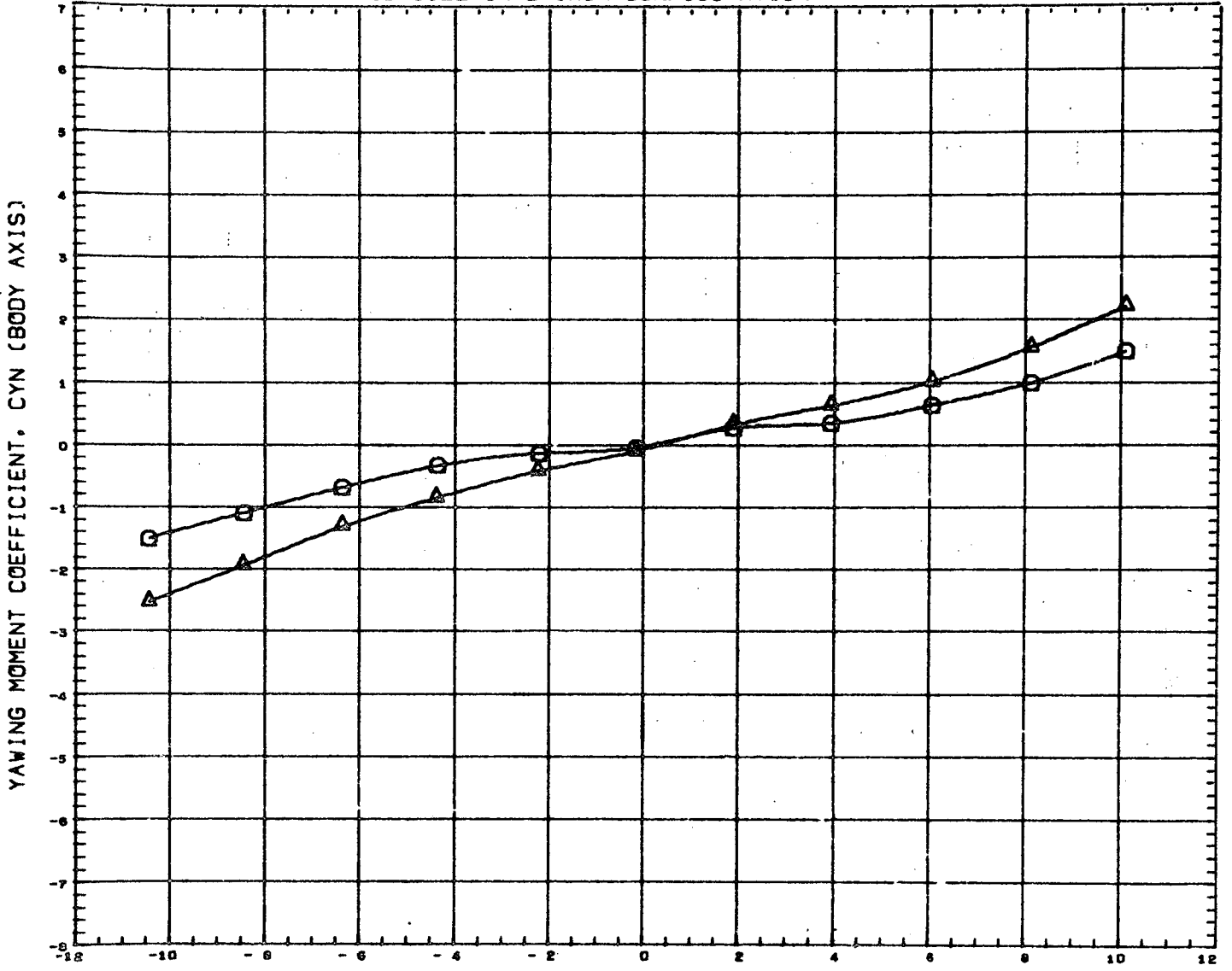
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(A9036A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(A9030A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACN 2.740

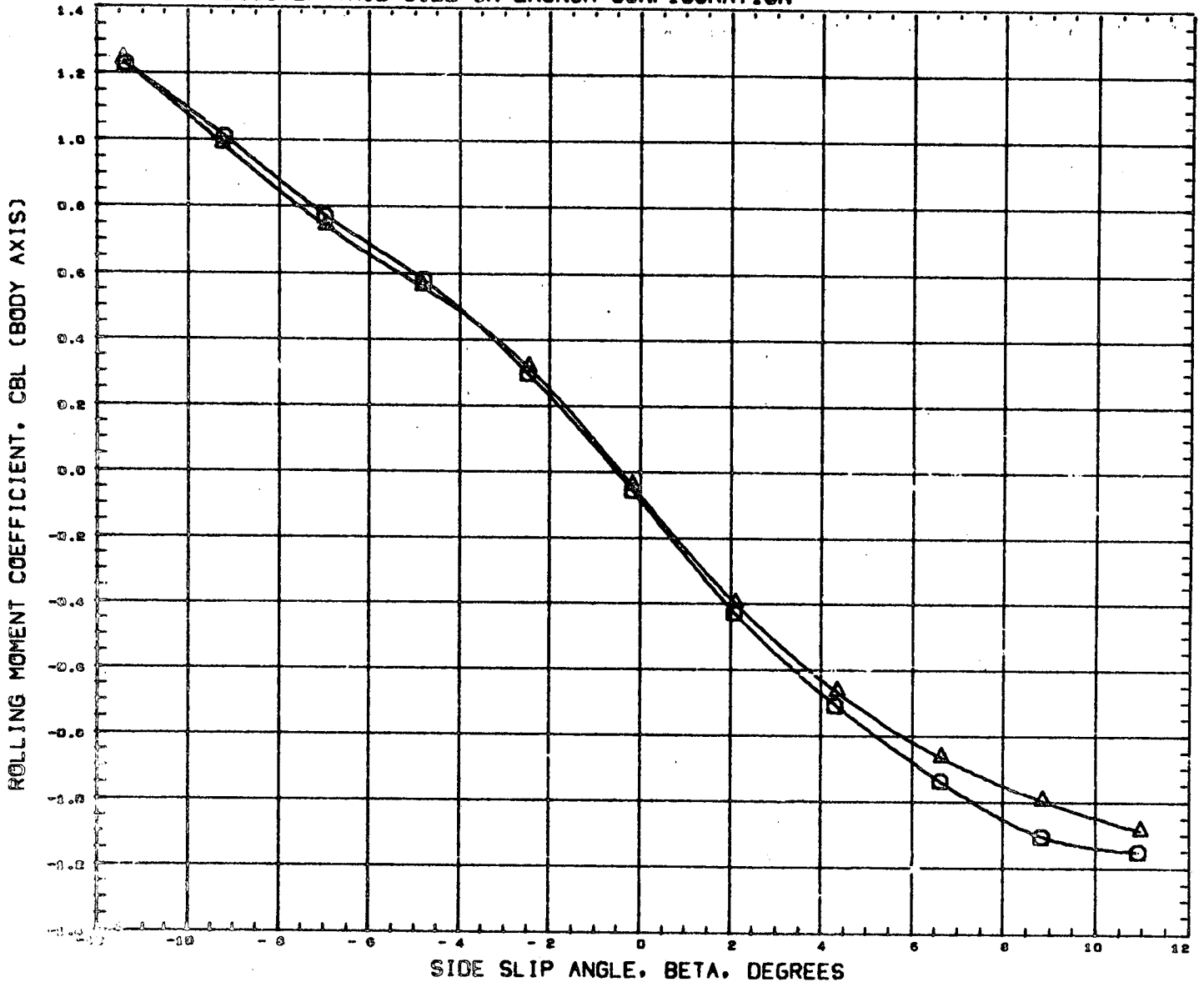
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RF1 AP	REFERENCE INFORMATION
(A5036A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(A5039A)	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 4.059

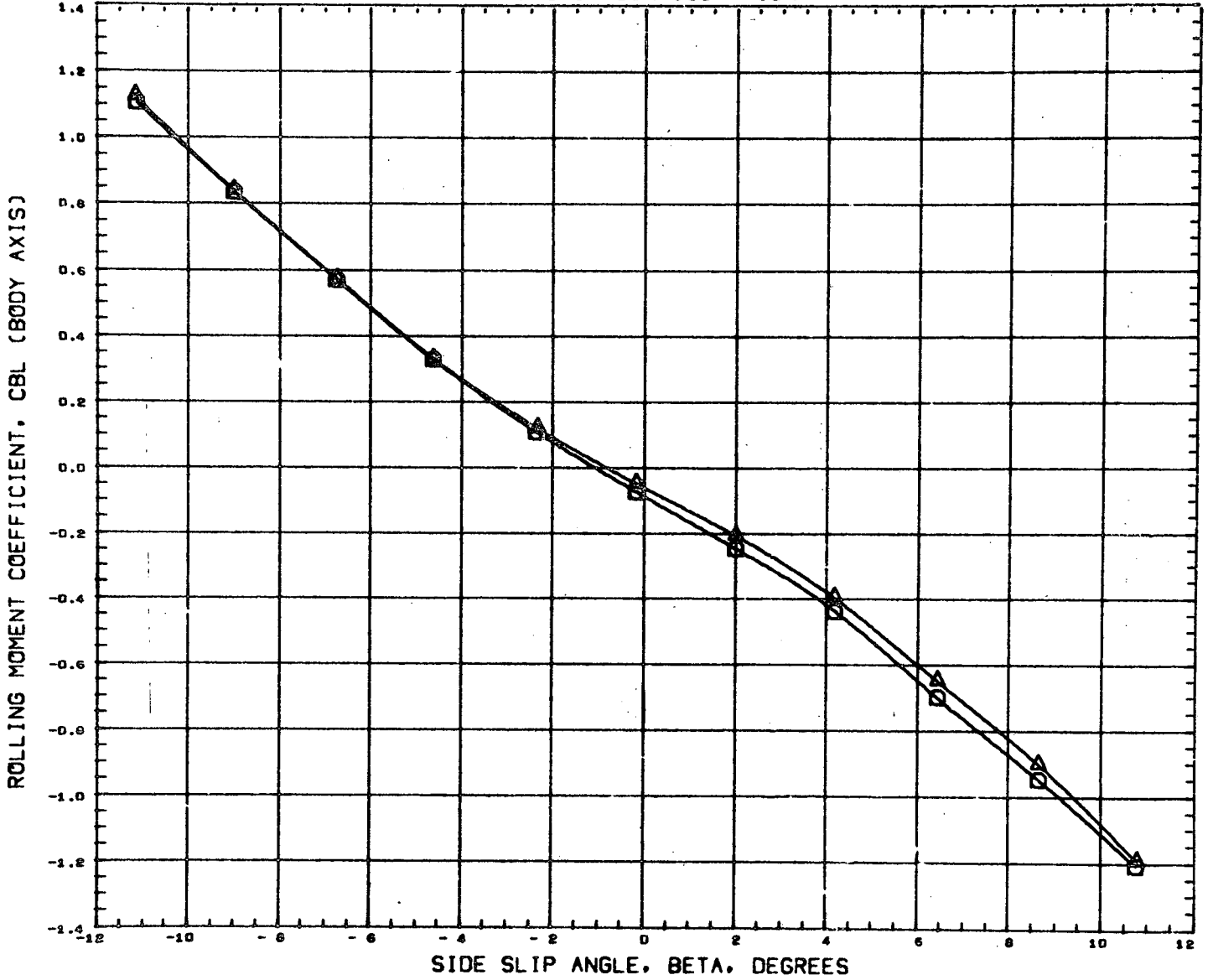
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA DIV	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RF 4P	REFERENCE INFORMATION
(AS03GA)	□	M9FC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(AS030A)	△	M07C 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
							BREF 1.0910 INCHES
							XMRP 3.7920 INCHES
							YMRP 0.0000 INCHES
							ZMRP 0.0000 INCHES
							SCALE 0.0034

CACW 0.000

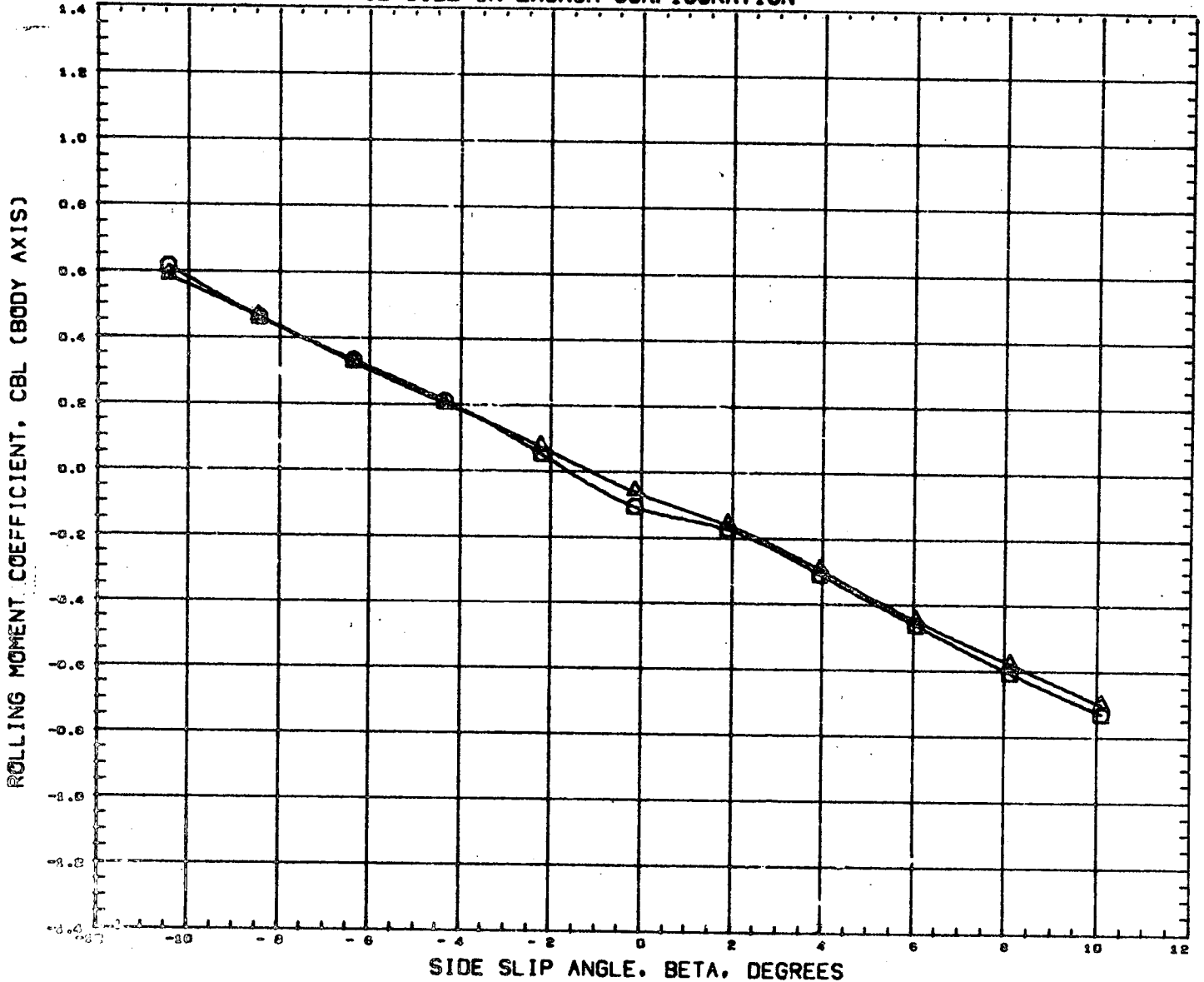
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFIAP	REFERENCE INFORMATION
(A5036A)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 SQ. IN.
(A5039A)	MSFC 512 6D/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACH 2.740

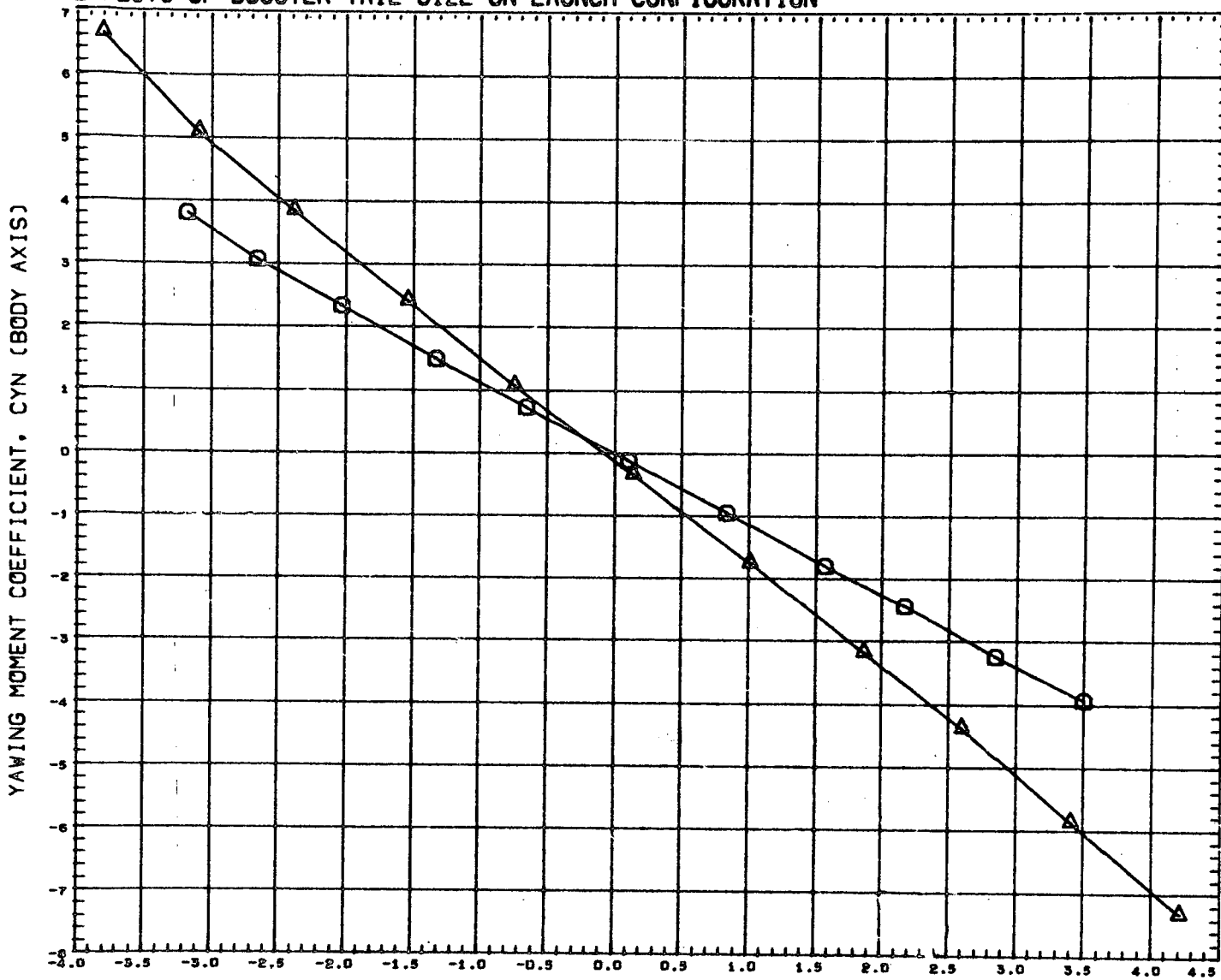
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION
(A5036A)	MSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF 0.9350 99. IN.
(A5030A)	MSFC 512 GD/C .00366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF 6.2310 INCHES
						BREF 1.0910 INCHES
						XMRP 3.7920 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.0000 INCHES
						SCALE 0.0034

MACN 4.050

EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



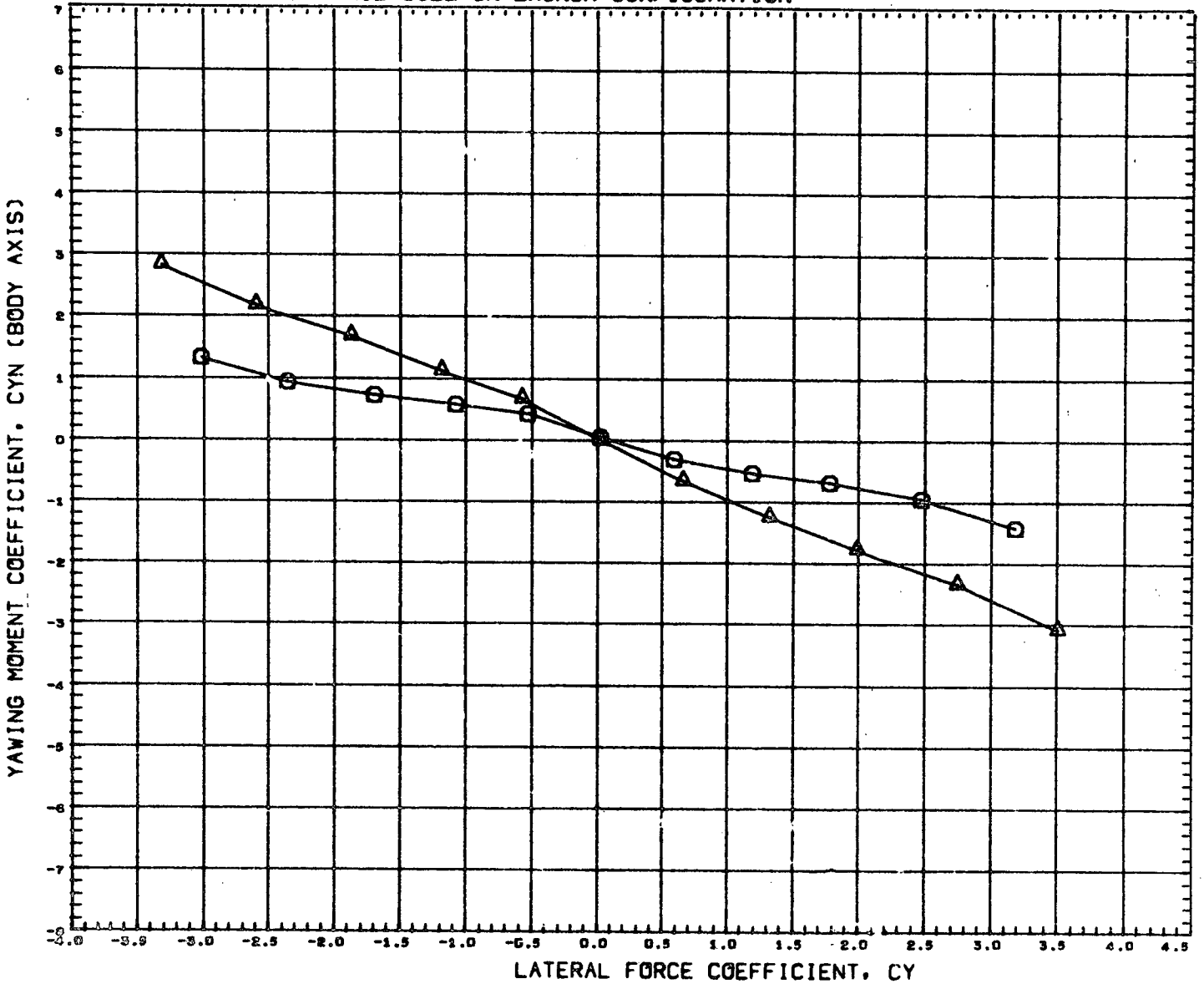
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(A5036A) ○	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3
(A5039A) △	MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3

ALPHA	PHIMOD	LFLAP	RFLAP
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

REFERENCE INFORMATION	
SREF	0.9550 SQ. IN.
LREF	6.2310 INCHES
BREF	1.0910 INCHES
XMRP	3.7920 INCHES
YMRP	0.0000 INCHES
ZMRP	0.0000 INCHES
SCALE	0.0034

MACH 0.900

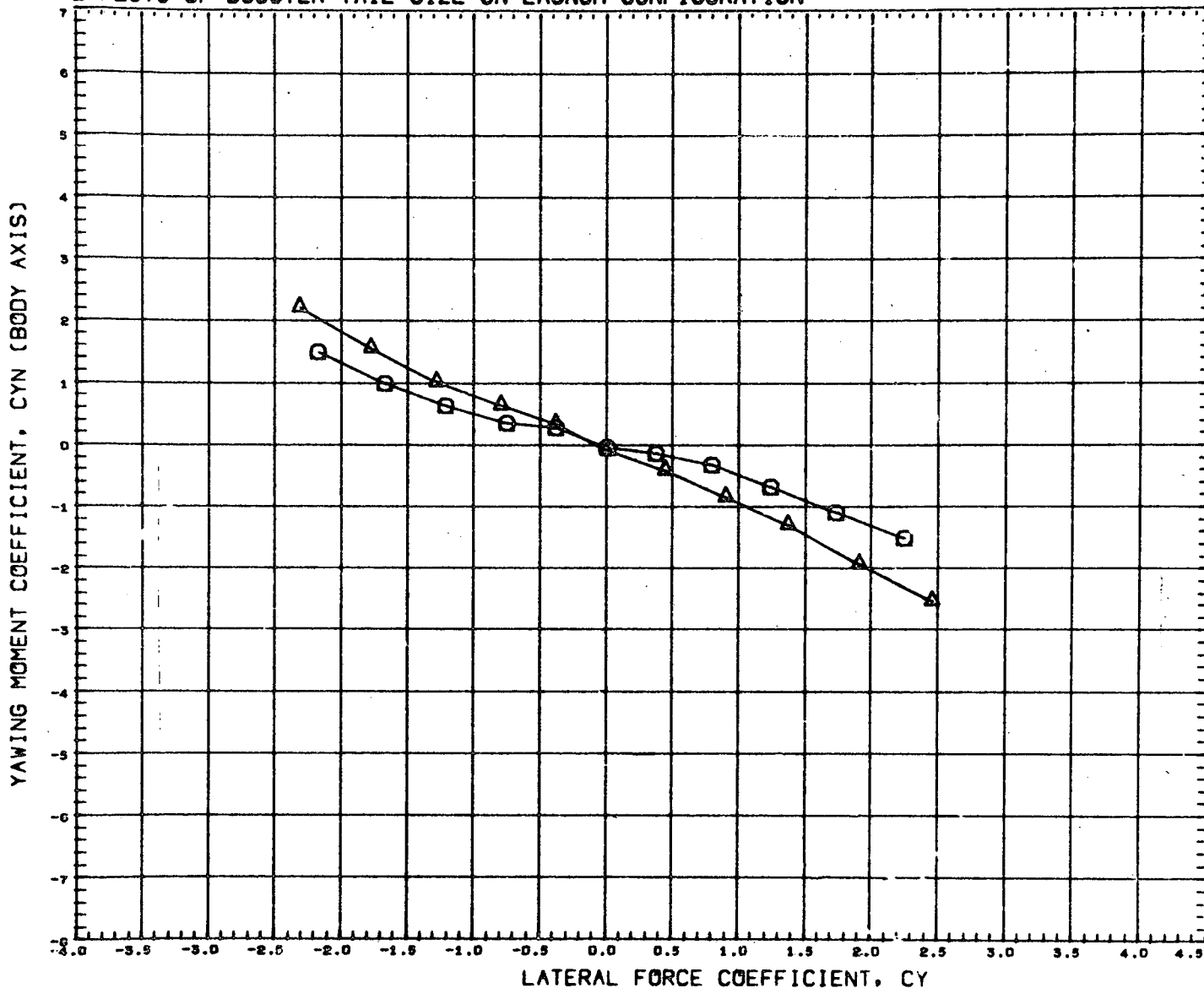
EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(A9036A)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 30. IN.
(A9039A)	MSFC 512 GD/C .003566 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRF	3.7920 INCHES
						YMRF	0.0000 INCHES
						ZMRF	0.0000 INCHES
						SCALE	0.0034

MACH 2.740

EFFECTS OF BOOSTER TAIL SIZE ON LAUNCH CONFIGURATION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PHIMOD	LFLAP	RFLAP	REFERENCE INFORMATION	
(A9056A)	Q MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1002T3	0.000	0.000	0.000	0.000	SREF	0.9350 SQ. IN.
(A5039A)	Δ MSFC 512 GD/C .003366 BOOSTER/ORB. B34R6T1302T3	0.000	0.000	0.000	0.000	LREF	6.2310 INCHES
						BREF	1.0910 INCHES
						XMRP	3.7920 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.0000 INCHES
						SCALE	0.0034

MACH 4.959