

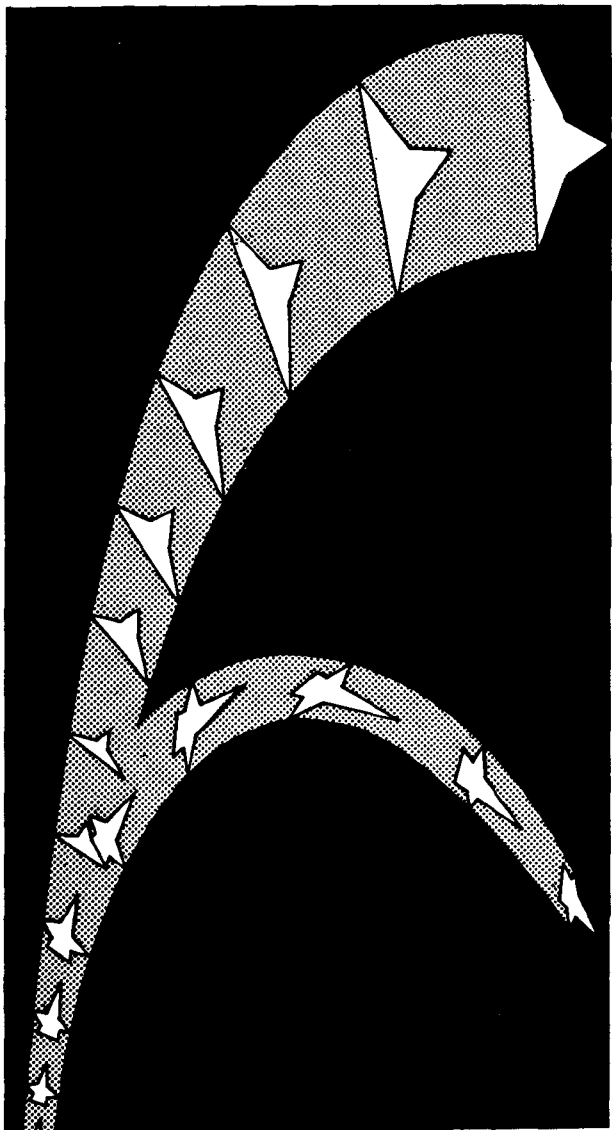
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-SPACE SHUTTLE-

**STABILITY AND CONTROL
EFFECTIVENESS OF THE MDAC
PARAMETRIC DELTA CANARD
BOOSTER AT MACH 0.38**

**Volume II
WING PARAMETRIC VARIATIONS -
SIZE AND LOCATION**

by
**D. Bradley, LMSC/HREC
R. Buchholtz, LMSC/HREC**

NSRDC 7x10 - FOOT
TRANSONIC WIND TUNNEL

**NAVY SHIP RESEARCH
AND
DEVELOPMENT CENTER**

FACILITY FORM 602

(ACCESSION NUMBER) <u>862</u>	(THRU) <u>63</u>
(PAGES) <u>CR-119996</u>	(CODE) <u>31</u>
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SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

CONTRACT NAS8-4016
MARSHALL SPACE FLIGHT CENTER



SADSAC/SPACE SHUTTLE
WIND TUNNEL TEST DATA REPORT

CONFIGURATION: Space Shuttle Parametric Delta Canard Booster .15 Scale

TEST PURPOSE: Investigation of Stability and Control Effectiveness at
Mach Number 0.38

TEST FACILITY: NSRDC 7 x 10-Foot Transonic Wind Tunnel

TESTING AGENCY: LMSC/HREC for MSFC

TEST NO. & DATE: NSRDC 3110; March, 1971

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ABSTRACT

A 0.015 scale model of a modified version of the MDAC Space Shuttle Booster was tested in the Naval Ship Research and Development Center 7 x 10 Foot Transonic Wind Tunnel during March 1971 (Test Number NSRDC 3110) to obtain force, static stability, and control effectiveness data. This test was conducted by Lockheed's Huntsville Research and Engineering Center for the Aerodynamic Laboratory of the George C. Marshall Space Flight Center. Data were obtained for a cruise Mach Number of 0.38, altitude of 10,000 ft ($q = 165$ psf), and Reynolds Number per foot of approximately 2×10^6 . The model was tested through an angle of attack range of -4° to 15° at zero degree angle of sideslip, and at an angle of sideslip range of -6° to 6° at fixed angles of attack of 0° , 6° , and 15° . Other test variables were elevon deflections, canard deflections, aileron deflections, rudder deflections, wing dihedral angle, canard incidence angle, wing incidence angle, canard position, wing position, wing and canard size, canard control flap size and dorsal fin size.

Plotted data for this test will be published under one data report number (DMS-DR-1139) with four volumes as follows:

- | | | |
|---|-----------------|-----------|
| I. Canard Parametric Variations | Data plot pages | 1-525 |
| II. Wing Parametric Variations - Size and Location | Data plot pages | 526-1309 |
| III. Wing Parametric Variations - Incidence and Dihedral | Data plot pages | 1310-1804 |
| IV. Surface Effectiveness, Model Buildup and Directional Stability at High Angles of Attack | Data plot pages | 1805-2207 |

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SUMMARY

A 0.015 scale model of a modified version of the MDAC Space Shuttle Booster was tested in the Naval Ship Research and Development Center 7 x 10 Foot Transonic Wind Tunnel during March 1971 (Test Number NSRDC 3110) to obtain force, static stability, and control effectiveness data. This test was conducted by Lockheed's Huntsville Research and Engineering Center for the Aerodynamic Laboratory of the George C. Marshall Space Flight Center. Data were obtained for a cruise Mach Number of 0.38, altitude of 10,000 ft ($q = 165$ psf), and Reynolds Number per foot of approximately 2×10^6 . The model was tested through an angle of attack range of -4° to 15° at zero degree angle of sideslip, and at an angle of sideslip range of -6° to 6° at fixed angles of attack of 0° , 6° , and 15° . Other test variables were elevator deflections, canard deflections, aileron deflections, rudder deflections, wing dihedral angle, canard incidence angle, wing incidence angle, canard position, wing position, wing and canard size, canard control flap size, and dorsal fin size.

Plotted data for this test will be published under one data report number (DMS-DR-1139) with four volumes as follows:

- | | | | |
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| I. | Canard Parametric Variations | Data plot pages | 1-525 |
| II. | Wing Parametric Variations - Size and Location | Data plot pages | 526-1309 |
| III. | Wing Parametric Variations - Incidence and Dihedral | Data plot pages | 1310-1804 |
| IV. | Surface Effectiveness, Model Buildup and Directional Stability at High Angles of Attack | Data plot pages | 1805-2207 |

CONFIGURATIONS INVESTIGATED

The baseline model was a 0.015-scale modified version of the McDonnell Douglas model 256-14 booster configuration which was designed by NSRDC to allow the following variations in geometry: canard vertical location, size and incidence angle; wing vertical location, size, incidence angle, dihedral angle and variable wing tip fins; and dorsal fin size. A sketch of the baseline model is shown in Figure 2. In addition to the geometrical variations, the model had deflectable elevons, canard trailing edge flaps, dorsal fin rudders, and wing tip rudders. Deflection angles were obtained by replacing the control surface with a separate surface set to the desired angle. A typical model installation is shown in Figure 3 for configuration B1C2F1W1V1 with an aileron control deflection of 20 degrees.

Four pressure ports were used for measuring the base pressures, and were located as shown in Figure 4. Measurements from the pressure ports were used to calculate the base drag coefficient.

To ensure a turbulent boundary layer, artificial transition strips were applied as shown in Figure 5. Wing, body and canard grit size were calculated by the method of Braslow and Know for a tunnel Reynolds number of 2×10^6 per foot.

Model Components Tested

- B1 = Baseline MDAC booster body (length = 3.453 ft)
- B2 = Baseline MDAC booster body (length = 3.06 ft)
- W1 = Baseline booster wing (planform area = 1.355 ft²)
- W2 = Alternate high aspect ratio wing (planform area = 1.148 ft²)
- V1 = Booster wing tip vertical fin (planform area = 0.226 ft²)
- V2 = Booster wing tip extension (planform area = 0.15 ft²)

CONFIGURATIONS INVESTIGATED
(CONTINUED)

Model Component Tested (Con't)

- D1 = Booster large dorsal fin
- D2 = Booster small dorsal fin
- D3 = Booster small dorsal fin
- C1 = Booster large canard
- C2 = Booster small canard
- C3 = C2 with F1 portion removed
- F1 = Canard trailing edge control surface for C1 (20% chord exposed area)
- F2 = Canard trailing edge control surface for C1 (40% chord exposed area)
- F3 = Canard flap, F2 for C2 with F1 portion removed

For detailed information on the above components refer to the model component sheets, pages 52 through 68.

Combinations Tested

B1	B1C2F2W1V1
B1W1V1	B1C3F3W1V1
B1C2F1	B1C2F1W1V2
B1C2F2	B1C2F1W1V2D1
B1C1F1W1V1	V1C2F1W1V1D2
B1C1F1W1V2D1	B1C2F1W1V1D3
B1C2F1W1V1	B2C2F1W1V1
B1C2F1W2D2	

See Data Collation Sheets for a complete list of combinations tested.

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER				NO. of RUNS	PARAMETRIC VALUES								
		a	B	0.4					Se	Sc	Sc	Sr	Tw	lc	lw	CND POS	WNG POS
RN2001	BIC2 FIWIVI	A	0	37				1	0	0	0	0	7°40'	3	0	1	1
002		0	A	39													
003		6		40													
004		15	Y	41									Y				
005		A	0	23									15				
006		0	A	24													
007		6		25													
008		15	Y	26									Y		Y		
009		A	0	23									3		2		
010		0	A	24													
011		6		25													
012		15	Y	26									Y				
013		A	0	27									15				
014		0	A	28													
015		6		29													
016		15	Y	30									Y		Y	Y	
017		A	0	31									3		1	2	
018		0	A	32													
019		6		33													
Y 020	Y	15	Y	34				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB				L3
CAP.	B.P.(1)	B.P.(3)								MA.C.B.			

COEFFICIENTS: CA = -4, 0, 2, 4, 6, 8, 10, 15, 20 → IDPVAR(1) IDPVAR(2) NDV

a or B

SCHEDULES

BA = -6, -3, 0, 3, 6

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	B	0.4				Se	Sc	Sl	Sr	Lw	Lc	Lw	CND POS	WNG POS
RN2021	BIC2FIWIVI	A	0	0.4			1	0	0	0	0	740	15	0	1	2
022		0	A	0.4												
023		6		0.4												
024		15		0.4												
025		A	0	0.4								3		2		
026		0	A	0.4												
027		6		0.4												
028		15		0.4												
029		A	0	0.4								15				
030		0	A	0.4												
031		6		0.4												
032		15		0.4												
033		A	0	0.4								3	3	1	1	
034		0	A	0.4												
035		6		0.4												
036		15		0.4												
037		A	0	0.4								15				
038		0	A	0.4												
039		6		0.4												
040		15		0.4												

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB				
C.A.E.	B.P.(1)	B.P.(3)								MACH.			

COEFFICIENTS:

CA = -4, 0, 2, 4, 6, 8, 10, 15, 20

a or B SCHEDULES

BA = -6, -3, 0, 3, 6

→ IDPVAR(1) | IDPVAR(2) | NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES									
		a	b	0.4				Sc	Sc	Sc	Sr	Tw	Lc	Lw	CND POS	WING POS	
RN2 041	BIC2FINIVI	A	0	133			1	0	0	0	0	7°40'	3	3	2	1	
042		0	A	133													
043		6		133													
044		15		133													
045		A	0	141								15					
046		0	A	142													
047		6		143													
048		15		143													
049		A	0	162								3		1	2		
050		0	A	163													
051		6		164													
052		15		165													
053		A	0	167								15					
054		0	A	168													
055		6		169													
056		15		170													
057		A	0	182								3		2			
058		0	A	183													
059		6		186													
060		15		187													

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CHL	CYN	CV	CL	CD	L/D	CAB				
C.P.F.	B.P.(1)	B.P.(3)								MACH			13

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 9, 10, 15, 20$ IDPVAR(1) | IDPVAR(2) | NDV
 a or B
 SCHEDULES $BA = -6, -3, 0, 3, 6$

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST

POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	B	D.4				Se	Sc	Sc	Sr	TW	Lc	LW	CND PDS	WNG PDS
RN2061	BIG2FIWIVI	A	0	182			1	0	0	0	0	740	15	3	2	2
062	↓	0	A	181												
063	↓	6		182												
064	↓	15		183												
065	BIG1FIWIVI	A	0	35								3	0	1	1	
066	↓	0	A	34												
067	↓	6		35												
068	↓	15		36												
069	↓	A	0	38							15					
070	↓	0	A	39												
071	↓	6		30												
072	↓	15		31												
073	↓	A	0	47								3		2		
074	↓	0	A	48												
075	↓	6		49												
076	↓	15		50												
077	↓	A	0	55							15					
078	↓	0	A	56												
079	↓	6		57												
080	↓	15		58												

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CLL	CYN	CY	CL	CO	L/D	CAB				
C.A.E.	B.P.(1)	B.P.(3)								MACH			

COEFFICIENTS: αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

a or B SCHEDULES BA = -6, -3, 0, 3, 6

IDPVAR(1) | IDPVAR(2) | NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER				NO. of RUNS	PARAMETRIC VALUES								
		a	B	0.4					Se	Sc	Sa	Sr	TW	Lc	LW	CNP PPS	WING PPS
RN2081	BICI FIWIVI	A	0	351				1	0	0	0	0	740	3	0	1	2
082		0	A	352													
083		6		353													
084		15	Y	354									Y				
085		A	0	355								15					
086		0	A	356									Y				
087		6		357													Y
088		15	Y	358									Y				
089		A	0	359									3		2		
090		0	A	360									Y				
091		6		361													
092		15	Y	362									Y				
093		A	0	363								15					
094		0	A	364									Y				
095		6		365									Y	Y	Y	Y	
096		15	Y	366									Y				
097		A	0	367									3	3	1	1	
098		0	A	368									Y				
099		6		369									Y				
100		15	Y	370									Y	Y	Y	Y	

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBH	CYN	CY	CL	CD	L/D	GAB				
C.A.F.	B.P.L.	B.P.L.								MACH.			63

COEFFICIENTS: αA = -4, 0, 2, 4, 6, 8, 10, 15, 20 IDPVAR(1) | IDPVAR(2) | NDV
 a or β
 SCHEDULES BA = -6, -3, 0, 3, 6

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST

POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	b	0.4				Se	Sc	Sa	St	TW	lc	lw	CND POS	WING POS
RN2101	BICIFIWIVI	A	0	116			1	0	0	0	0	7°40'	15	3	1	1
102		0	A	117												
103		6		118												
104		15		119												
105		A	0	131								3		2	1	
106		0	A	135												
107		6		139												
108		15		140												
109		A	0	144								15				
110		0	A	150												
111		6		151												
112		15		154												
113		A	0	155								3		1	2	
114		0	A	159												
115		6		160												
116		15		161												
117		A	0	171								15				
118		0	A	172												
119		6		173												
120		15		174												

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CHL	CYN	CV	CL	CD	L/D	GAB	MACH			13
C.A.F.	B.P.(1)	B.P.(3)											

COEFFICIENTS:

$\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

a or b
SCHEDULES

$BA = -6, -3, 0, 3, 6$

IDPVAR(1) IDPVAR(2) NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	β	0.4				Sc	Sc	Sc	Sc	Γw	Lc	LW	CND PPS	WING PPS
RN2121	BICLFIWV1	A	0	31			1	0	0	0	0	740	3	3	2	2
122		0	A	32												
123		6		33												
124		15		34												
125		A	0	35							15					
126		0	A	36												
127		6		37												
128		15		38												
129	BICIFIWV2 DI	A	0	41								3	0	1	1	
130		0	A	42												
131		6		43												
132		15		44												
133		A	0	45							15					
134		0	A	46												
135		6		47												
136		15		48												
137		A	0	49								3		2		
138		0	A	50												
139		6		51												
140		15		52												

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CHL	CYN	CY	CL	CD	L/D	CAB				
C.A.F.	B.P.(1)	B.P.(3)								MACH			13

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$ → IDPVAR(1) | IDPVAR(2) | NDV
 a or β _____
 SCHEDULES $\beta A = -6, -3, 0, 3, 6$ _____

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	B	0.4				S _c	S _c	S _a	S _r	T _w	L _c	L _w	CND PAS	WNG PAS
RN2141	BICIFWIV2D1	A	0	0.4			1	0	0	0	0	740	15	0	2	1
142		0	A	0.5												
143		6		0.6												
144		15		0.7												
145		A	0	0.8								3		1	2	
146		0	A	0.9												
147		6		1.0												
148		15		1.1												
149		A	0	1.2								15				
150		0	A	1.3												
151		6		1.4												
152		15		1.5												
153		A	0	1.6								3		2		
154		0	A	1.7												
155		6		1.8												
156		15		1.9												
157		A	0	2.0								15				
158		0	A	2.1												
159		6		2.2												
160		15		2.3												

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH			
C.A.E.	B.P.S.I.	B.A.L.3											

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

0 or B SCHEDULES

$BA = -6, -3, 0, 3, 6$

⇒ IDPVAR(1) | IDPVAR(2) | NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES										
		a	B	0.4				Se	Sc	Sc	Sr	Tw	Lc	Lw	CND POS	WING POS		
RN2161	BICIFIWIV2.D1	A	0	15			1	0	0	0	0	740	3	3	1	1		
162		0	A	15														
163		6		15														
164		15		15														
165		A	0	11								15						
166		0	A	11														
167		6		11														
168		15		11														
169		A	0	7								3		2				
170		0	A	7														
171		6		7														
172		15		8														
173		A	0	8								15						
174		0	A	8														
175		6		8														
176		15		8														
177		A	0	3								3		1	2			
178		0	A	3														
179		6		3														
180		15		3														

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CHL	CYN	CY	CL	CI	LID	CAB				
C.A.E.	B.P.(1)	B.P.(3)								MACH			

COEFFICIENTS: SA = -4, 0, 2, 4, 6, 9, 10, 15, 20 IDPVAR(1) IDPVAR(2) NDV
 a or B
 SCHEDULES BA = -6, -3, 0, 3, 6

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST

POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	B	0,4				Se	Sc	Sa	Sr	Tw	Lc	LW	CND POS	WNG POS
RN2 181	BIG1FIWIV2.D1	A	0	565			1	0	0	0	0	7°40'	15	3	1	2
182		0	A	570												
183		6		507												
184		15		508								Y		Y		
185		A	0	113								3		2		
186		0	A	172												
187		6		195												
188		15		196								Y				
189		A	0	500								15				
190		0	A	501												
191		6		502												
192		15		503								Y	Y	Y	Y	
193	BIC2FIWIV2.D1	A	0	417								3	0	1	1	
194		0	A	418												
195		6		419												
196		15		420								Y				
197		A	0	431								15				
198		0	A	440												
199		6		441				Y	Y	Y	Y	Y	Y	Y	Y	Y
200		15		442				Y	Y	Y	Y	Y	Y	Y	Y	Y

1	7	13	19	25	31	37	43	49	55	61	67	73	79
CN	CA	CLM	CHL	CYN	CY	CL	CD	L/D	CAB				
C.A.F.	B.P.(1)	B.P.(3)											

COEFFICIENTS:

$\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

a or B

SCHEDULES

$BA = -6, -3, 0, 3, 6$

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. OF RUNS	PARAMETRIC VALUES								
		a	B	0.4				Sc	Sc	Sc	Sr	Γw	Lc	Lw	CND POS	WING POS
RN2201	BIC2.FIN.V2.D1	A	0	0			1	0	0	0	0	7°40'	3	0	2	1
202		0	A	3												
203		6		70												
204		15	Y	71								Y				
205		A	0	68								15				
206		0	A	65												
207		6		66												
208		15	Y	67									Y	Y	Y	
209		A	0	81								3		1	2	
210		0	A	812												
211		6		813												
212		15	Y	814									Y			
213		A	0	443								15				
214		0	A	444												
215		6		445												
216		15	Y	446									Y	Y		
217		A	0	456								3		2		
218		0	A	457												
219		6		458												
220		15	Y	459												

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CHL	CYN	CY	CL	CD	L/D	CAB				
C.A.F.	B.P.(1)	B.P.(3)								M.A.C.H.			

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$ → IDPVAR(1) IDPVAR(2) NDV
 a or B
 SCHEDULES $BA = -6, -3, 0, 3, 6$

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST

POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	B	0.4				Se	Sc	Sa	Sr	Tw	Lc	LW	CND P.D.S	WING P.D.S
RN2221	BIC2FIWIV2 D1	A	0	96			1	0	0	0	0	7°40'	15	0	2	2
222		0	A	96												
223		6		94								↓	↓	↓	↓	
224		15		93												
225		A	0	94								3	3	1	1	
226		0	A	95												
227		6		96								↓				
228		15		97												
229		A	0	108								15				
230		0	A	109												
231		6		110												
232		15		111								↓		↓		
233		A	0	81								3		2		
234		0	A	82												
235		6		83												
236		15		84								↓				
237		A	0	87								15				
238		0	A	90												
239		6		91												
240		15		92				↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB				43
C.A.F.	B.P.(1)	B.P.(3)											MACH

COEFFICIENTS:

$\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

a or B

SCHEDULES

$BA = -6, -3, 0, 3, 6$

→ IDPVAR(1) | IDPVAR(2) | NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES										
		a	B	0.4				Sc	Sc	Sc	Sr	Tw	lc	LW	CND POS	WING POS		
RN2241	BIG2FIWV2D1	A	0	527			1	0	0	0	0	740	3	3	1	2		
242		0	A	528														
243		6		529														
244		15		530														
245		A	0	501								15						
246		0	A	502														
247		6		503														
248		15		504														
249		A	0	492								3		2				
250		0	A	493														
251		6		494														
252		15		495														
253		A	0	496								15						
254		0	A	497														
255		6		498														
256		15		499														
257	BIG2FIW2D1	A	0	553								3	0	1	1			
258		0	A	554														
259		6		555														
260		15		556														

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CA	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB				13
C.A.E.	B.P.L.	B.P.(3)										MACH.	

COEFFICIENTS: αA = -4, 0, 2, 4, 6, 9, 10, 15, 20

a or B BA = -6, -3, 0, 3, 6

SCHEDULES

IDPVAR(1) | IDPVAR(2) | NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	b	0.4				Se	Sc	Sa	Sr	TW	lc	lw	CND PDS	WNG PDS
RN2261	BICZFIWZDI	A	0	530			1	0	0	0	0	740	15	0	1	1
262		0	A	531												
263		6		532												
264		15		533												
265		A	0	535								3		2		
266		0	A	536												
267		6		537												
268		15		538												
269		A	0	539								15				
270		0	A	540												
271		6		541												
272		15		542												
273		A	0	543											1	2
274		0	A	545												
275		6		546												
276		15		547												
277		A	0	548								3		2		
278		0	A	549												
279		6		546												
280		15		547												

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	KAB				
C.A.E.	B.P.(1)	B.P.(3)											

COEFFICIENTS: SA = -8, 0, 2, 4, 6, 8, 10, 15, 20
a or b
SCHEDULES BA = -6, -3, 0, 3, 6

IDPVAR(1) | IDPVAR(2) | NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	B	0.4				Se	Sc	Sa	sr	Tw	Lc	Lw	CND POS	WING POS
RN2281	BIGLFIW2DI	A	0	577			1	0	0	0	0	790	15	0	2	2
282		0	A	578												
283		6		579												
284		15		580												
285		A	0	581								3	3	1	1	
286		0	A	582												
287		6		583												
288		15		584												
289		A	0	585								15				
290		0	A	586												
291		6		587												
292		15		588												
293		A	0	589								3		2		
294		0	A	590												
295		6		591												
296		15		592												
297		A	0	593								15				
298		0	A	594												
299		6		595												
300		15		596												

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB				
C.A.E.	B.P.(1)	B.P.(3)								MACH			13

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

SCHEDULES: $BA = -6, -3, 0, 3, 6$

IDPVAR(1) | IDPVAR(2) | NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES										
		a	B	0.4				Se	Sc	Sa	Sr	Lw	Lc	Lw	CNO POS	WNG POS		
RN2301	BLC2.FIW2.D1	A	0	834			1	0	0	0	0	7°40'	3	3	1	2		
302		0	A	834														
303		6		834														
304		15		834														
305		A	0	536								15						
306		0	A	537														
307		6		538														
308		15		539														
309		A	0	539									3		2			
310		0	A	539														
311		6		530														
312		15		531								15						
313		A	0	532														
314		0	A	533														
315		6		534														
316		15		535														
317	B1	A	0	401														
318		0	A	465														
319		6		465														
320		15		465														

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB				
C.A.F.	B.P.(1)	B.P.(2)								MACH			

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

a or B SCHEDULES: $BA = -6, -3, 0, 3, 6$

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	E	0.4				Se	Sc	Sc	Sr	Γw	lc	Lw	CND POS	WNG POS
RN2321	BIC2F2WIVI	A	0	0.4			1	0	10	0	0	790	3	0	1	1
322	↓	0	A	0.4												
323	↓	6	↓	0.4												
324	↓	15	↓	0.4												
325	↓	A	0	0.4					20							
326	↓	0	A	0.4												
327	↓	6	↓	0.4												
328	↓	15	↓	0.4												
329	BIC2FIWIVI	A	0	0.4				-20	0							
330	↓	0	A	0.4												
331	↓	6	↓	0.4												
332	↓	15	↓	0.4												
333	BIC2F2WIVI	A	0	0.4					10							
334	↓	0	A	0.4												
335	↓	6	↓	0.4												
336	↓	15	↓	0.4												
337	↓	A	0	0.4					20							
338	↓	0	A	0.4												
339	↓	6	↓	0.4												
340	↓	15	↓	0.4												

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH			73
C.A.F.	B.P.(1)	B.P.(3)											

COEFFICIENTS: αA = -4, 0, 2, 4, 6, 8, 10, 15, 20 => |IDPVAR(1)| IDPVAR(2) |NDV

a or B

SCHEDULES βA = -6, -3, 0, 3, 6

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES										
		a	B	0.4				Sc	Sc	Sc	Sr	Γ_w	ic	LW	CND POS	WNG POS		
RN2341	BIC2FIWIVI	A	0	611			1	-10	0	0	0	7%	3	0	1	1		
342		0	A	612														
343		6		613														
344	Y	15	Y	614														
345	BIC2F2WIVI	A	0	616				10										
346		0	A	617														
347		6		618														
348		15	Y	619														
349		A	0	620				20										
350		0	A	621														
351		6		622														
352	Y	15	Y	623														
353	BIC2FIWIVI	A	0	625				10	0									
354		0	A	626														
355		6		627														
356	Y	15	Y	628														
357	BIC2F2WIVI	A	0	629				10										
358		0	A	630														
359		6		631														
360	Y	15	Y	632														

1	7	13	19	25	31	37	43	49	55	61	67	73	79
CN	CA	CLM	CBH	CYN	CY	CL	CD	L/D	CAB	MACH			
C.A.E.	B.P.C.1.	B.P.C.3.											

COEFFICIENTS:

$\alpha_A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

a or B

SCHEDULES

$\beta_A = -6, -3, 0, 3, 6$

IDPVAR(1) IDPVAR(2) NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER				NO. of RUNS	PARAMETRIC VALUES								
		a	B	0.4					Se	Sc	Sa	Sr	Tw	lc	LW	CND POS	WNB POS
RN2.361	BIC2F2W1VI	A	0	0.4				1	10	20	0	0	7 ⁹⁰	3	0	1	1
362	↓	0	A	0.5													
363	↓	6	↓	0.6													
364	↓	15	↓	0.7					↓	↓							
365	BIC2FIW1VI	A	0	0.7					20	0							
366	↓	0	A	0.8													
367	↓	6	↓	0.9													
368	↓	15	↓	1.0						↓							
369	BIC2F2W1VI	A	0	1.0						10							
370	↓	0	A	1.1													
371	↓	6	↓	1.2													
372	↓	15	↓	1.3						↓							
373	↓	A	0	1.4						20							
374	↓	0	A	1.5													
375	↓	6	↓	1.6													
376	↓	15	↓	1.7					↓	↓							
377	BIC2FIW1VI	A	0	1.8					30	0							
378	↓	0	A	1.9													
379	↓	6	↓	2.0													
↓ 380	↓	15	↓	2.1					↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75	76
C.N	CA	CLM	CLL	CYN	CY	CL	CD	L/D	CAB				13
C.A.F.	B.P.(1)	B.P.(3)								MACH			

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$ → IDPVAR(1) | IDPVAR(2) | NDV

a or B

SCHEDULES

$\beta A = -6, -3, 0, 3, 6$

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER				NO. of RUNS	PARAMETRIC VALUES								
		a	B	0.4					Se	Sc	Sc	Sr	Tn	ic	Ln	CND POS	WNG POS
RN2381	BIG2F2W1VI	A	0	15				1	30	10	0	0	7'40"	3	0	1	1
382		0	A	15													
383		6		15													
384		15	Y	15													
385		A	0	20					20								
386		0	A	20													
387		6		20													
388		15	Y	20					Y	Y	Y						
389		A	0	21					0	0	10						
390		0	A	21													
391		6		21													
392		15	Y	21													
393		A	0	21							20						
394		0	A	21													
395		6		21													
396		15	Y	21					Y	Y	Y						
397		A	0	21					-10	0	10						
398		0	A	21													
399		6		21													
Y 400	Y	15	Y	21				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	LLO	CAB	MACH			VS
C.A.F.	B.P.(1)	B.P.(2)								IDPVAR(1)	IDPVAR(2)	NDV	

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

a or B

SCHEDULES $BA = -6, -3, 0, 3, 6$

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES										
		a	B	0.9				Se	Sc	Sa	Sr	Tw	Lc	Lv	CNO POS	WING POS		
RN2401	BIC2F2W1V1	A	0	231			1	-10	0	20	0	740'	3	0	1	1		
402		0	A	235														
403		6		235														
404		15	Y	235														
405		A	0	221				10		10								
406		0	A	222														
407		6		223														
408		15	Y	224														
409		A	0	225						20								
410		0	A	226														
411		6		227														
412		15	Y	228				Y	Y	Y								
413		A	0	241				0	20	10								
414		0	A	242														
415		6		243														
416		15	Y	244				Y	Y	Y								
417		A	0	253				0	20	20								
418		0	A	254														
419		6		255														
420		15	Y	256				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB				
C.A.F.	B.P.C.W.	R.P.C.L.								MACH			13

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$ IDPVAR(1) | IDPVAR(2) | NDV

a or B

SCHEDULES $BA = -6, -3, 0, 3, 6$

TEST NSRDC-1110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	B	0.4				Se	Sc	Sc	Sr	TW	lc	LW	CNO POS	WNG POS
RN2421	BIC2F2WV1	A	0	731			1	-10	20	-10	0	7°40'	3	0	1	1
422		0	A	731												
423		6		731												
424		15	↓	740												
425		A	0	757						20						
426		0	A	757												
427		6		757												
428		15	↓	766				↓								
429		A	0	785				10		10						
430		0	A	786												
431		6		787												
432		15	↓	786												
433		A	0	789						20						
434		0	A	790												
435		6		791												
436		15	↓	792				↓	↓	↓	↓	↓	↓	↓	↓	↓
437	BIC2F1	A	0	813				-	0	-	-	-	-	-	-	-
438		0	A	814				-	-	-	-	-	-	-	-	-
439		6		815				-	-	-	-	-	-	-	-	-
440		15	↓	816				-	↓	-	-	-	↓	-	-	-

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB				
C.A.E.	B.P.L.W.	B.P.C.A.								MACH			

COEFFICIENTS:

αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

a or B SCHEDULES

βB = -6, -3, 0, 3, 6

→ IDPVAR(1) | IDPVAR(2) | NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES									
		α	β	0.4				Se	Sc	Sc	Sr	TW	ic	in	CND POS	WNG POS	
RN2441	BIC2 F1	A	0	711			1	-	10	-	-	-	3	-	1	-	
442		0	A	712				-		-	-	-					
443		6		713				-		-	-	-					
444		15		714				-	Y	-	-	-					
445		A	0	715				-	20	-	-	-					
446		0	A	716				-		-	-	-					
447		6		717				-		-	-	-					
448		15		718				-		-	-	-					
449	BIC2 F2	A	0	719				-		-	-	-					
450		0	A	720				-		-	-	-					
451		6		721				-		-	-	-					
452		15		722				-	Y	-	-	-					
453		A	0	723				-	10	-	-	-					
454		0	A	724				-		-	-	-					
455		6		725				-		-	-	-					
456		15		726				-	Y	-	-	-	Y				
457	BIWIVI	A	0	727				-20	-	0	0	740	-	0	-	1	
458		0	A	728													
459		6		729													
460		15		730				Y	Y	Y	Y	Y	Y	Y	Y	Y	

1	7	13	19	25	31	37	43	49	55	61	67	75	76
GN	CA	CLM	CBL	QVN	CY	CL	CD	LTD	CAB				
C.A.F.	B.P.L.W.	R.P.C.L.								WACH			

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$ IDPVAR(1) | IDPVAR(2) | NDV
 $\beta A = -6, -3, 0, 3, 6$

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER				NO. of RUNS	PARAMETRIC VALUES									
		a	B	0.4					Se	Sc	Sa	Sr	Tw	Lc	Ln	CND POS	WNG POS	
RN2461	BIWIVI	A	0	647				1	-10	-	0	0	1°40'	-	0	-	1	
462		0	A	643					↓	-								
463		6	↓	646					↓	-								
464		15	↓	641					↓	-								
465		A	0	636					0	-								
466		0	A	637					↓	-								
467		6	↓	633					↓	-								
468		15	↓	637					↓	-								
469		A	0	640					10	-								
470		0	A	641					↓	-								
471		6	↓	642					↓	-								
472		15	↓	643					↓	-								
473		A	0	648					20	-								
474		0	A	649					↓	-								
475		6	↓	650					↓	-								
476		15	↓	651					↓	-								
477		A	0	656					30	-								
478		0	A	657					↓	-								
479		6	↓	658					↓	-								
480		15	↓	659					↓	-								

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CAL	CYN	CY	CL	CD	LTD	CAB	MACH			
C.A.F.	B.P.(1)	B.P.(3)											

COEFFICIENTS:

$\alpha A = -9, 0, 2, 4, 6, 8, 10, 15, 20$

a or B
 SCHEDULES

$\beta A = -6, -3, 0, 3, 6$

IDPVAR(1) | IDPVAR(2) | NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES										
		a	B	0.4				Se	Sc	Sc	Sr	TW	Lc	LW	CNO POS	WNO POS		
RN2481	BIWIVI	A	0	765			1	0	-	10	0	740'	-	0	-	1		
482		0	A	766														
483		6		767														
484		15	Y	768														
485		A	0	771							20							
486		0	A	775														
487		6		777														
488		15	Y	780														
489		A	0	761				-10		10								
490		0	A	762														
491		6		763														
492		15	Y	764														
493		A	0	764				-10		20								
494		0	A	765														
495		6		765														
496		15	Y	764														
497		A	0	767				10		10								
498		0	A	776														
499		6		771														
500		15	Y	774														

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB				
C.A.F.	B.P.W.	B.P.C.								MACH			

COEFFICIENTS: αA = -4, 0, 2, 4, 6, 8, 10, 15, 20 IDPVAR(1) IDPVAR(2) NDV
 a or B
 SCHEDULES βA = -6, -3, 0, 3, 6

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		α	β	0.4				S_e	S_c	S_a	S_r	Γ_w	i_c	i_w	CND POS	WIG POS
RN2501	BIWIVI	A	0	713			1	10	-	20	0	7°40'	-	0	-	1
502		0	A	714												
503		6		715												
504		15		716				↓	-	↓	↓					
505		0		715				0	-	0	-5					
506		6		716												
507		15		717							↓					
508		0		718							-10					
509		6		719												
510		15		720												
511	BIC2FIWIVI	0		707					0		-5		3		1	
512		6		708												
513		15		709												
514		0		710							-10					
515		6		711												
516		15	Y	712												
517		A	0	561							0	15°				
518		0	A	562												
519		6		563												
520		15	Y	564				↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CV	CL	CD	L/D	CAB	WACH			
C.A.F.	B.P.(1)	B.P.(3)											

COEFFICIENTS: $\alpha A = -9, 0, 2, 4, 6, 8, 10, 15, 20$
 α or β
 SCHEDULES $\beta A = -6, -3, 0, 3, 6$

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES								
		a	B	0.4				Se	Sc	Sa	Sr	Tw	Lc	Lw	CNO POS	WING POS
RA2531	BIC2FIW1VI	A	0	565			1	0	0	0	0	15	3	0	2	1
522	↓	0	A	566												
523	↓	6	↓	567												
524	↓	15	↓	568												
525	BIC2FIW1V2D1	A	0	574										1		
526	↓	0	A	575												
527	↓	6	↓	576												
528	↓	15	↓	577												
529	↓	A	0	578											2	
530	↓	0	A	579												
531	↓	6	↓	580												
532	↓	15	↓	581												
533	BIC2FIW2D1	A	0	581									3	1		
534	↓	0	A	582												
535	↓	6	↓	583												
536	↓	15	↓	584												
537	↓	A	0	585											2	
538	↓	0	A	586												
539	↓	6	↓	587												
540	↓	15	↓	588				↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CVN	CY	CL	CD	L/D	CAB	MACH			15
C.A.F.	B.P.L.W.	A.P.L.S.											

COEFFICIENTS: $\alpha A = -9, 0, 2, 4, 6, 8, 10, 15, 20$

a or B

SCHEDULES $\beta A = -6, -3, 0, 3, 6$

IDPVAR(1) | IDPVAR(2) | NDV

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER				NO. of RUNS	PARAMETRIC VALUES								
		a	B	0.4					Se	Sc	Sa	Sr	Tw	Lc	LW	CND POS	WNG POS
RN2541	BIC2FIWIV1	A	0	54				1	0	10	0	0	7'40"	3	0	1	1
542		0	A	54													
543		6		54													
544		15		54													
545		A	0	54					20								
546		0	A	54													
547		6		54													
548		15		54													
549	BIC2F2WIV1	A	0	54												2	
550		0	A	54													
551		6		54													
552		15		54													
553	BIC2FIWIV2	A	0	54					0		-					1	
554		0	A	54													
555		6		54													
556		15		54													
557	BIC2FIWIV1	A	0	54													
558		0	A	54													
559		6		54													
560		15		54													

7	13	19	25	31	37	43	49	55	61	67	75	76
CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	CAB	MACH		
C.A.F.	R.P.C.W.	A.P.C.L.										

COEFFICIENTS: $\alpha A = -4, 0, 2, 4, 6, 8, 10, 15, 20$

a or B SCHEDULES $BA = -6, -3, 0, 3, 6$

TEST NSRDC-3110 DATASET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		RUN NUMBER			NO. of RUNS	PARAMETRIC VALUES										
		a	B	0.4				Se	Sc	Se	Sp	TW	ic	IN	CND PDS	WING PDS		
RN2561	BIC2FIWIV102	A	0	841			1	0	0	0	0	7°40'	3	0	1	1		
562	↓	0	A	841														
563	↓	6		841														
564	↓	15	↓	850														
565	BIC3K3WIVI	A	0	831														
566	↓	0	A	840														
567	↓	6		841														
568	↓	15	↓	842														
569	BIC2FIWIV103	A	0	852														
570	↓	0	A	852														
571	↓	6		854														
572	↓	15	↓	855														
573	B2C2FIWIVI	A	0	851														
574	↓	0	A	858														
575	↓	6		859														
576	↓	15	↓	860				↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

1	7	13	19	25	31	37	43	49	55	61	67	7576
CN	CA	CLM	CEL	CYN	CY	CL	CD	L/D	CAB	MACH		13
C.A.F.	B.P.(1.)	R.P.(3.)										

COEFFICIENTS:

αA = -4, 0, 2, 4, 6, 8, 10, 15, 20

α or β

SCHEDULES

BA = -6, -3, 0, 3, 6

TEST FACILITY DESCRIPTION

The test program was conducted in the NSRDC 7 x 10-foot transonic wind tunnel, which is a closed-loop, continuous flow tunnel with a Mach number range from $M = 0.30$ to $M = 1.20$ at simulated altitudes from sea level to 40,000 feet. Reynolds number can be varied between 1×10^6 and 3×10^6 per foot by adjusting the settling chamber total pressure.

TABLE I. SADSAC NOMENCLATURE OF AERODYNAMIC 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	-	-

TABLE II.
TEST CONDITIONS
TEST NSRDC 3110

MACH NUMBER	REYNOLDS NUMBER per unit length	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.38	2.69 x 10 ⁶	1.35	

BALANCE UTILIZED: TSB-24

CAPACITY:

- NF 1500 #
- SF 500 #
- AF 100 #
- PM 1850 in #
- YM 625 in #
- RM 750 in #

ACCURACY:

- 7.5 #
- 2.5 #
- 0.5 #
- 0.25 in #
- 3.13 in #
- 3.75 in #

**COEFFICIENT
TOLERANCE:**

- 0.0290
- 0.0097
- 0.0020
- 0.0009
- 0.0003
- 0.0004

COMMENTS:

DATA REDUCTION

This section includes a description of the data reduction accomplished by NSRDC and by SADSAC

For SADSAC

A six-component strain gauge balance was used to measure the force and moment data for this test (see Figure 1 for axis system orientation); four base pressures were also measured but only two were used to calculate the base axial force coefficient (CAB). Reference data utilized to reduce the measured data to coefficient form are listed below:

$$S_{\text{ref}} = \text{Wing W1 planform area} = 1.355 \text{ ft}^2$$

$$l_{\text{ref}} = b_{\text{ref}} = \text{Body B1 length} = 41.436 \text{ in}$$

The moment reference point (MRP) for all data in which B1 was tested is 31.14 inches aft of the fuselage nose, on the lateral centerline and 0.225 inch above the vertical centerline of the model. The MRP for all data in which B2 was tested is 26.64 inches aft of the nose, on the lateral centerline, and 0.225 inch above the model vertical centerline.

Data submitted to SADSAC were CN, CA, CLM, CBL, CYN, CY, CL, CD, L/D, CAB, CAF, BP(1), and BP(3); BP(1) and BP(3) are base pressure coefficients applicable to base pressure tubes 1 and 3 (see Figure 4). The base axial force coefficient (CAB) was calculated as listed below:

$$CAB = BP(1) [A1/S_{\text{ref}}] + [BP(1) - BP(3)] [A2/S_{\text{ref}}] + BP(3) [A3/S_{\text{ref}}]$$

DATA REDUCTION
(CONTINUED)

A1 = total area of 10 nozzles at the throats = 0.0121 ft^2

A2 = total area of 10 nozzles at the nozzle exits minus the total throat area (A1)

A3 = total base area minus A1 and A2

A3 = 0.1312 ft^2 for high wing

A3 = 0.1372 ft^2 for low wing

By SADSAC

A request for incremental effects of control deflection required additional processing of the basic data by SADSAC. Coefficient data was obtained at even values of angle of attack ($\alpha = -2, 0, 4, 6, 8$ and 10°) and then used to determine the difference between the datasets, i.e. $(CN)_{\delta_e=10} - (CN)_{\delta_e=0}$. Incremental data were obtained for the following coefficients: CL, CIM, CD, L/D, CYN, CBL, and CY.

SUMMARY DATA PLOT INDEX

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNDSIZ	INCIDW	DINDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Canard Size	W1V1	0°	7.66°	1	-	3°	1	A	1-8
Canard Size	W1V1	0°	7.66°	1	-	3°	1	B	9-11
Canard Position	W1V1	0°	7.66°	1	C2	3°	-	A	12-19
Canard Position	W1V1	0°	7.66°	1	C2	3°	-	B	20-22
Canard Incidence	W1V1	0°	7.66°	1	C2	-	1	A	23-30
Canard Incidence	W1V1	0°	7.66°	1	C2	-	1	B	31-33
Canard Size	W1V1	0°	7.66°	1	-	3°	2	A	34-41
Canard Size	W1V1	0°	7.66°	1	-	3°	2	B	42-44
Canard Position	W1V1	0°	7.66°	2	C2	3°	-	A	45-52
Canard Position	W1V1	0°	7.66°	2	C2	3°	-	B	53-55
Canard Incidence	W1V1	0°	7.66°	1	C2	-	2	A	56-63
Canard Incidence	W1V1	0°	7.66°	1	C2	-	2	B	64-66
Canard Size	W1V1	3°	7.66°	1	-	3°	1	A	67-74
Canard Size	W1V1	3°	7.66°	1	-	3°	1	B	75-77
Canard Position	W1V1	3°	7.66°	1	C2	3°	-	A	78-85
Canard Position	W1V1	3°	7.66°	1	C2	3°	-	B	86-88
Canard Incidence	W1V1	3°	7.66°	1	C2	-	1	A	89-96
Canard Incidence	W1V1	3°	7.66°	1	C2	-	1	B	97-99

SUMMARY DATA PLOT INDEX
(CONTINUED)

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNDSIZ	INCIDW	DINDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Canard Size	W1V1	3°	7.66°	1	-	3°	2	A	100-107
Canard Size	W1V1	3°	7.66°	1	-	3°	2	B	108-110
Canard Position	W1V1	3°	7.66°	2	C2	3°	-	A	111-118
Canard Position	W1V1	3°	7.66°	2	C2	3°	-	B	119-121
Canard Incidence	W1V1	3°	7.66°	2	C2	-	2	A	122-129
Canard Incidence	W1V1	3°	7.66°	2	C2	-	2	B	130-132
Canard Size	W1V1	0°	7.66°	2	-	3°	1	A	133-140
Canard Size	W1V1	0°	7.66°	2	-	3°	1	B	141-143
Canard Incidence	W1V1	0°	7.66°	2	C2	-	1	A	144-151
Canard Incidence	W1V1	0°	7.66°	2	C2	-	1	B	152-154
Canard Size	W1V1	0°	7.66°	2	C2	3°	1	A	155-162
Canard Size	W1V1	0°	7.66°	2	C2	3°	1	B	163-165
Canard Incidence	W1V1	0°	7.66°	2	C2	-	1	A	166-173
Canard Incidence	W1V1	0°	7.66°	2	C2	-	1	B	174-176
Canard Size	W1V1	3°	7.66°	2	-	3°	1	A	177-184
Canard Size	W1V1	3°	7.66°	2	-	3°	1	B	185-187

SUMMARY DATA PLOT INDEX
(CONTINUED)

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNDSIZ	INCIDW	DINDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Canard Incidence	W1V1	3°	7.66°	2	C2	3°	1	A	188-195
Canard Incidence	W1V1	3°	7.66°	2	C2	3°	1	B	196-198
Canard Size	W1	3°	7.66°	2	-	3°	2	A	199-206
Canard Size	W1	3°	7.66°	2	-	3°	2	B	207-209
Canard Incidence	W1	3°	7.66°	2	C2	-	2	A	210-217
Canard Incidence	W1	3°	7.66°	2	C2	-	2	B	218-220
Canard Size	W1	0°	7.66°	1	-	15°	1	A	221-228
Canard Size	W1	0°	7.66°	1	-	15°	1	B	229-231
Canard Position	W1	0°	7.66°	1	C2	15°	-	A	232-239
Canard Position	W1	0°	7.66°	1	C2	15°	-	B	240-242
Canard Size	W1	0°	7.66°	1	-	15°	2	A	243-250
Canard Size	W1	0°	7.66°	1	-	15°	2	B	251-253
Canard Position	W1	0°	7.66°	2	C2	15°	-	A	254-261
Canard Position	W1	0°	7.66°	2	C2	15°	-	B	262-264
Canard Size	W1	3°	7.66°	1	-	15°	1	A	265-272
Canard Size	W1	3°	7.66°	1	-	15°	1	B	273-275
Canard Position	W1	3°	7.66°	1	C2	15°	-	A	276-283
Canard Position	W1	3°	7.66°	1	C2	15°	-	B	284-286

SUMMARY DATA PLOT INDEX
(CONTINUED)

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNDSIZ	INCIDW	DINDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Canard Size	W1	3°	7.66°	1	-	15°	-	A	287-294
Canard Size	W1	3°	7.66°	1	-	15°	-	B	295-297
Canard Position	W1	3°	7.66°	1	C2	15°	-	A	298-305
Canard Position	W1	3°	7.66°	1	C2	15°	-	B	306-308
Canard Size	W1	3°	7.66°	2	-	15°	1 & 2	A & B	309-352
Canard Position	W1	0° & 3°	7.66°	1 & 2	C1	3° & 15°	1 & 2	A & B	353-440
Canard Incidence	W1	0° & 3°	7.66°	1 & 2	C1	-	1 & 2	A & B	441-528
Wing Size	-	0° & 3°	7.66°	1	C2	3° & 15°	1 & 2	A & B	529-616
Wing Size	-	0° & 3°	7.66°	2	C2	3° & 15°	1 & 2	A & B	617-704
Wing Size	-	0° & 3°	7.66°	1	C1	3° & 15°	1 & 2	A & B	705-792
Wing Size	-	0° & 3°	7.66°	2	C1	3° & 15°	1 & 2	A & B	793-880
Wing Location	W1V1 W1V2 W2 W1	0°	7.66°	-	C2	3° & 15°	1 & 2	A & B	881-1001
Wing Location	W1V1 W1V2 W2 W1	3°	7.66°	-	C2	3° & 15°	1 & 2	A & B	1002-1133

SUMMARY DATA PLOT INDEX
(CONTINUED)

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNDSIZ	INCIDW	DINDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Wing Location	{ W1V1 W1V2	0°	7.66°	-	C1	3° & 15°	1 & 2	A & B	1134-1221
Wing Location	{ W1V1 W1V2	3°	7.66°	-	C1	3° & 15°	1 & 2	A & B	1222-1309
Wing Incidence	W1V1	-	7.66°	1 & 2	C1 & C2	3° & 15°	1 & 2	A & B	1310-1485
Wing Incidence	W1V2	-	7.66°	1 & 2	C1 & C2	3° & 15°	1 & 2	A & B	1486-1661
Wing Incidence	W2	-	7.66°	1 & 2	C2	3° & 15°	1 & 2	A & B	1662-1738
Wing Dihedral	{ W1V1 W1V2 W2	0° & 3°	-	1	C2	3°	1 & 2	A & B	1739-1804
Elevon Deflection	W1V1	0°	7.66°	1	C2 & Off	3°	1	A & B	1805-1848
Wing Tip Rudder Deflection	W1V1	0°	7.66°	1	C2 & Off	3°	1	A & B	1849-1854
Dorsal Fin	{ W1V1 W1V2	0°	7.66°	1	C2	3°	1	A & B	1855-1876
Canard Flap Deflection and Size	W1V1 & Off	0°	7.66°	1	C2	3°	1	A & B	1877-1898
Canard Effectiveness	W1V1 & Off	0°	7.66°	1	C2	3°	1	A & B	1899-1964
Aileron Effectiveness	W1V1	0°	7.66°	1	C2 & Off	3°	1	A & B	1976-2074

SUMMARY DATA PLOT INDEX
(CONTINUED)

CONFIGURATION VARIABLE	CONFIGURATION CONDITIONS FIXED							PLOTTED COEFFICIENT SCHEDULE	PAGES
	WNGSIZ	INCIDW	DINDRL	WNGPOS	CNDSIZ	INCIDC	CNDPOS		
Elevon Effectiveness	W1V1	0°	7.66°	1	C2 & Off	3°	1	C	2075-2090
Rudder Effectiveness	W1V1	0°	7.66°	1	C2 & Off	3°	1	D	2091-2102
Canard Effectiveness	W1V1	0°	7.66°	1	C2	3°	1	E	2103-2126
Aileron Effectiveness	W1V1	0°	7.66°	1	C2 & Off	3°	1	F	2127-2180
Directional Stability At High Alpha	{ W1V1 W1V2 W2	0° & 3°	7.66°	1 & 2	C1 & C2	3° & 15°	1 & 2	G	1281-2207

PLOTTED COEFFICIENT SCHEDULE:

- (A) CN, CA, CIM, CL, CD, L/D & CAB vs. ALPHA
CIM vs. CL
- (B) CBL, CYN & CY vs. BETA
- (C) DCL, DCIM, DCD & DL/D vs. ELEVTR
- (D) DCYN, DCBL, DCY, DCD, DCIM, & DL/D vs. RUDDER
- (E) DCL, DCIM, DCD & DL/D vs. CANARD
- (F) DCYN, DCBL, DCY, DCD, DCIM & DL/D vs. AILERON
- (G) CBL, CYN & CY vs. ALPHA

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.

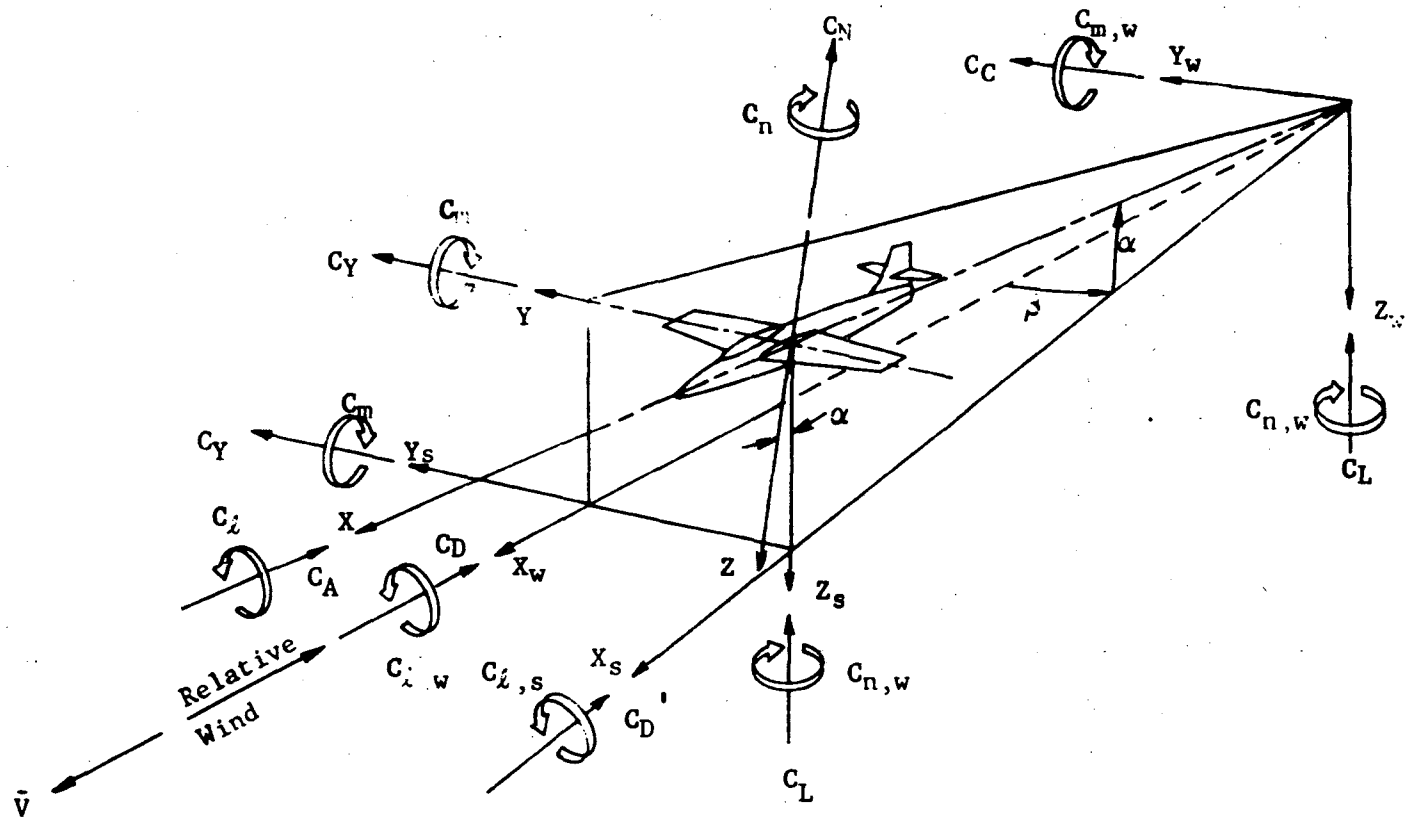


Figure 1. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

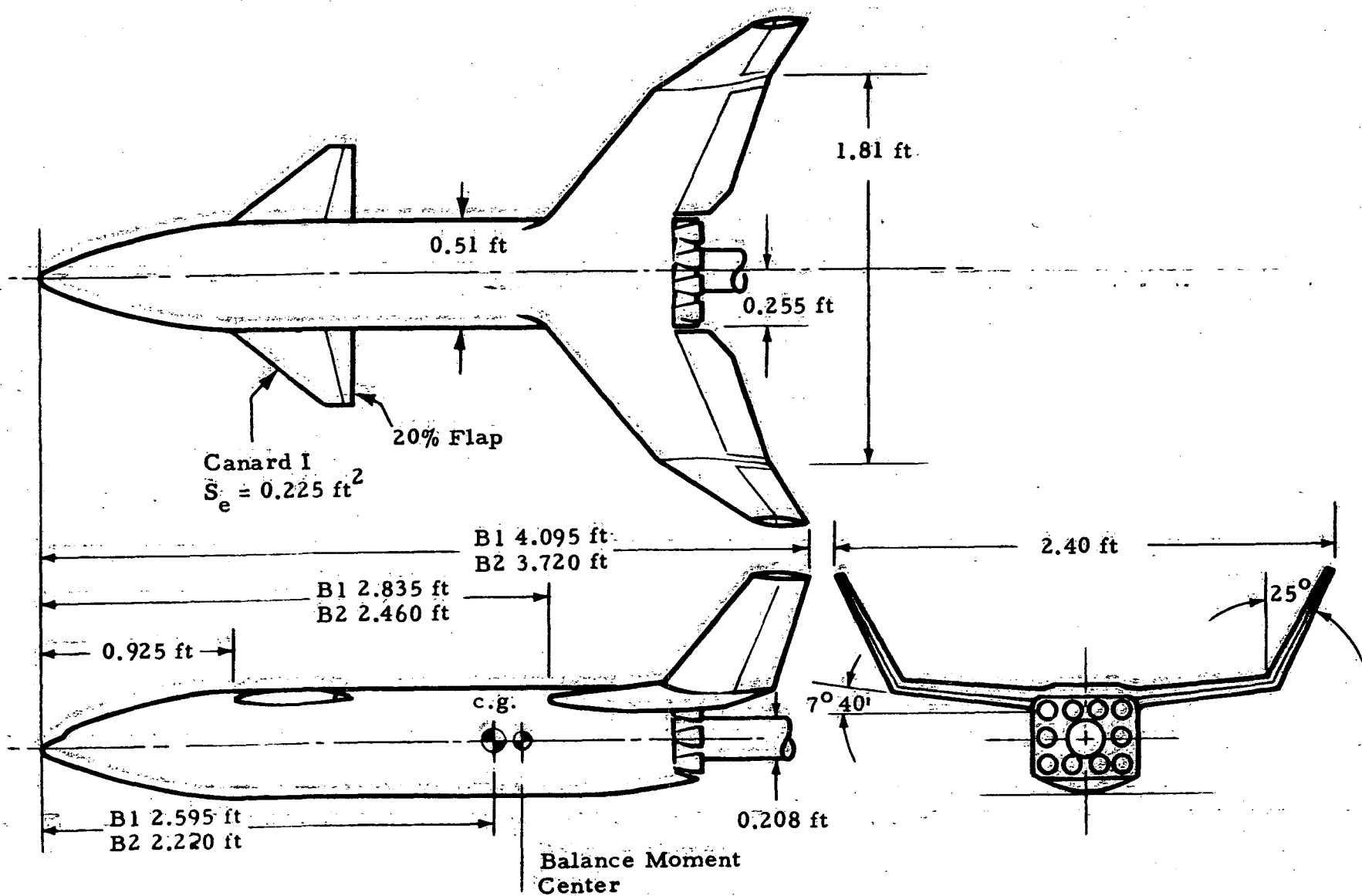


Fig. 2. General Arrangement of a Typical High Wing - High Canard Configuration

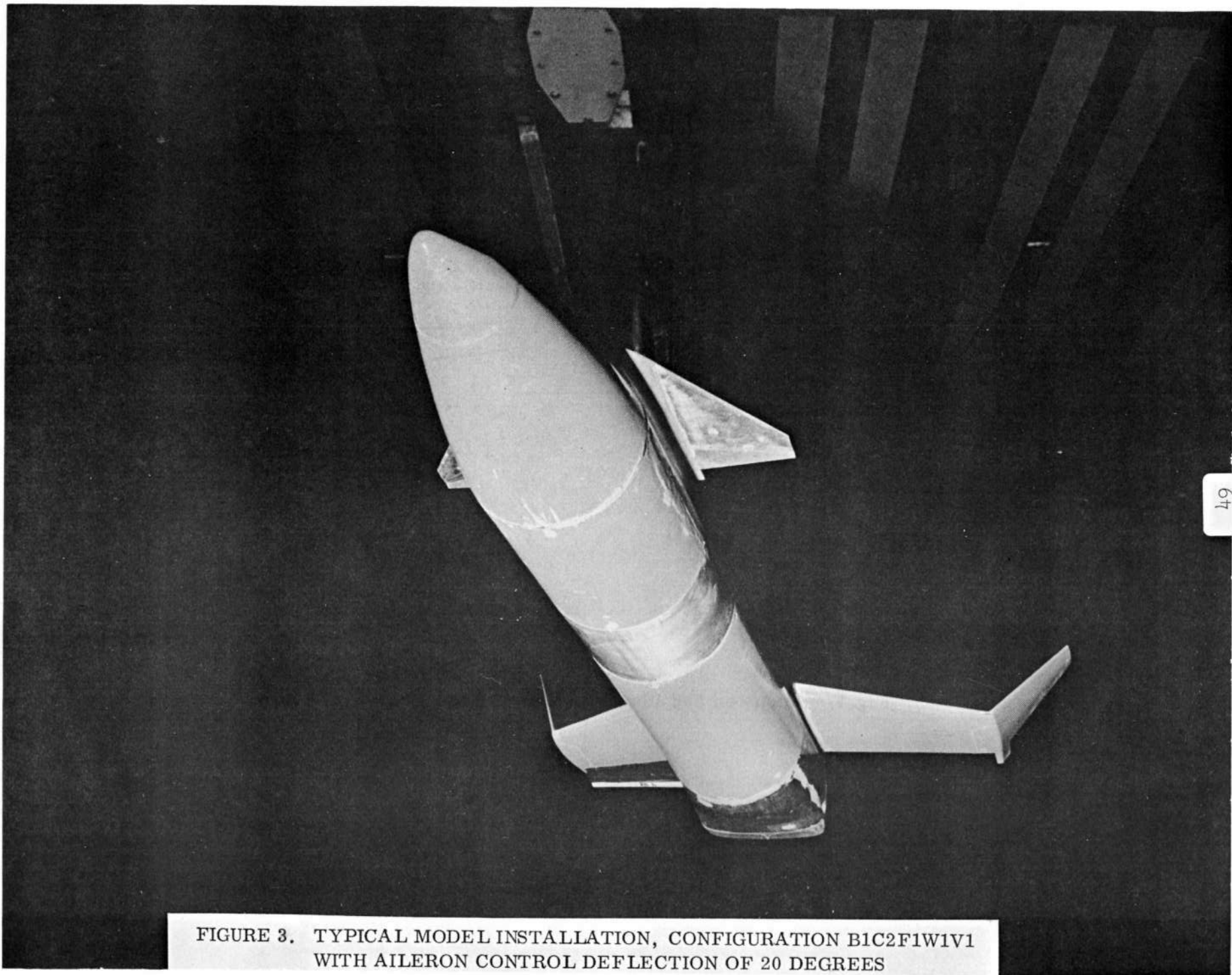


FIGURE 3. TYPICAL MODEL INSTALLATION, CONFIGURATION B1C2F1W1V1
WITH AILERON CONTROL DEFLECTION OF 20 DEGREES

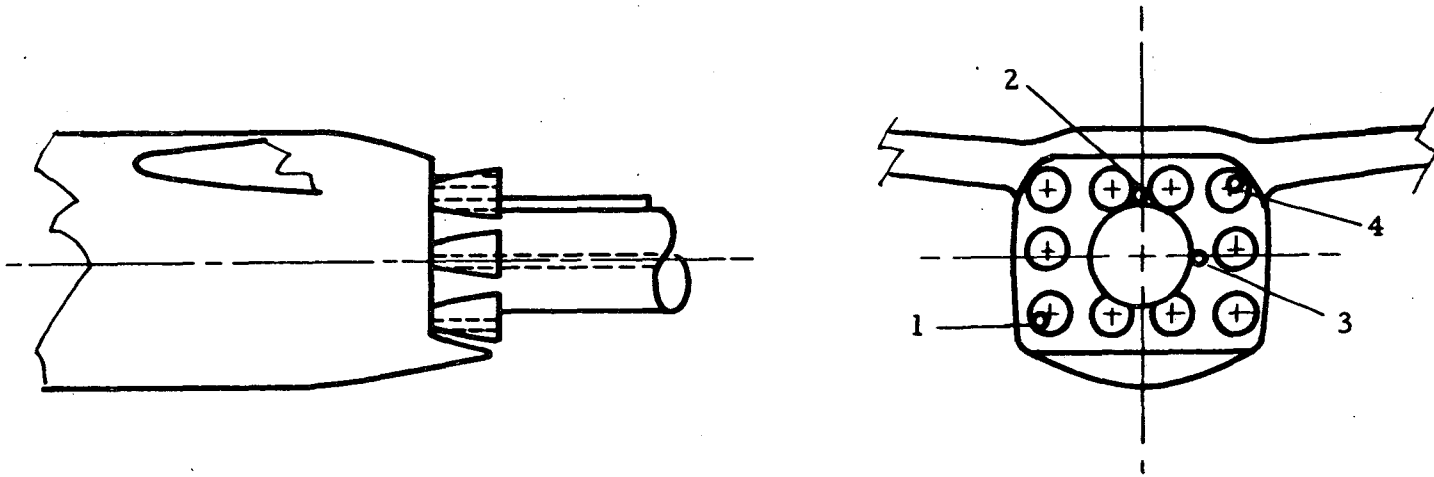


Fig. 4, - Location and Identification of Base Pressure Tubes

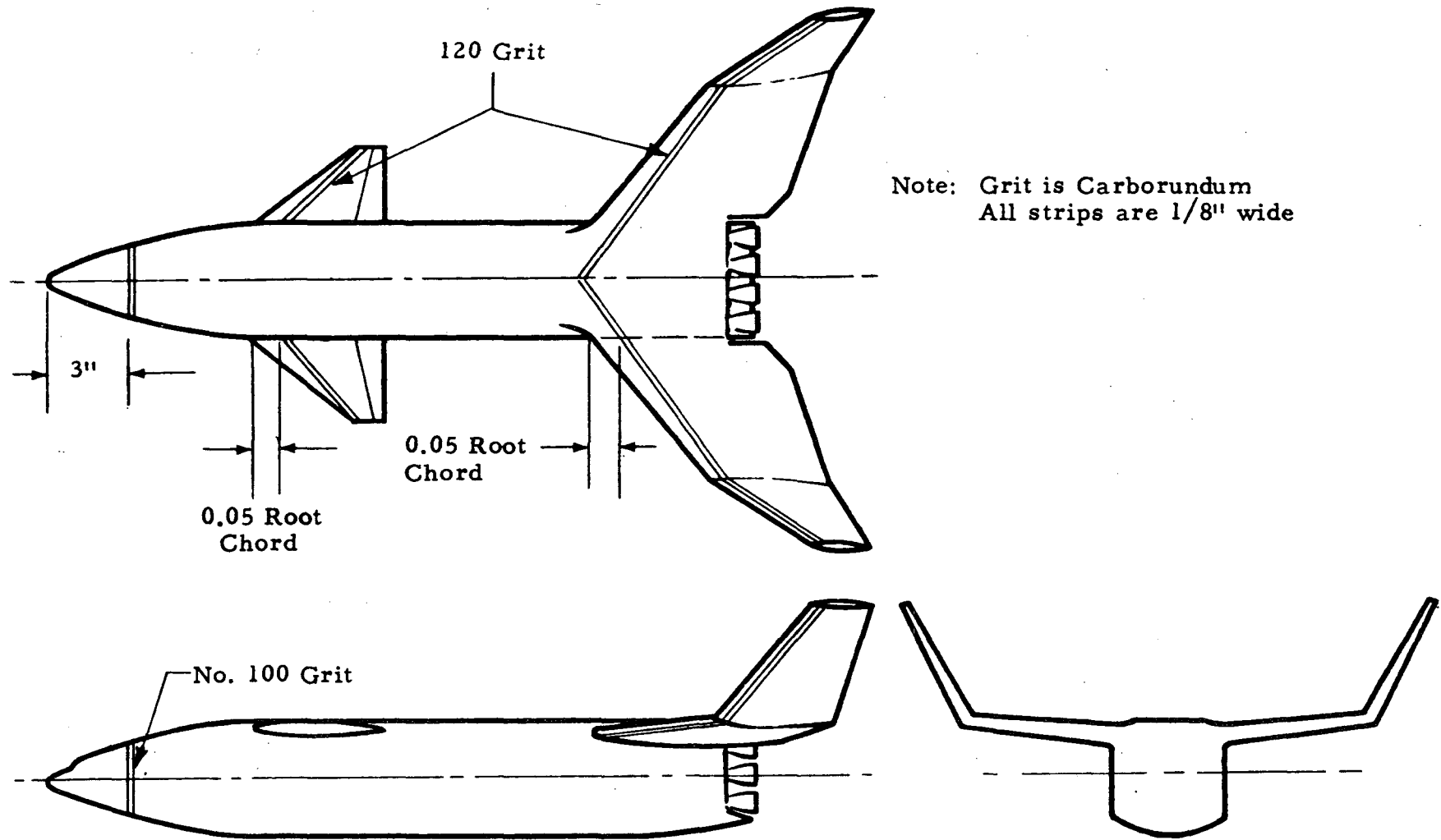


Fig. 5.- Typical Transition Grit Installation on Body, Wing and Canard

TABLE III.

MODEL COMPONENT: BODY - B1

GENERAL DESCRIPTION: Baseline MDAC booster body 256-19A-X
X = total length is 229 vs 291.7 for 19A

DRAWING NUMBER:

NSRDC A152011-A

DIMENSIONS:

FULL-SCALE

MODEL SCALE

Length

229 ft

3.453 ft

Max. Width

34 ft

0.51 ft

Max. Depth

34 ft

0.51 ft

Fineness Ratio

—

—

Area

Max. Cross-Sectional

907.92 ft²

0.204 ft²

Planform

—

—

Wetted

—

—

Base

high wing

866.67 ft²

0.195 ft²

Low wing

893.21 ft²

0.201 ft²

TABLE IV.

MODEL COMPONENT: BODY - B2

GENERAL DESCRIPTION: Baseline MDAC booster body 256-14

DRAWING NUMBER: NSRDC A152011

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>204.08 ft</u>	<u>3.06 ft</u>
Max. Width	<u>34 ft</u>	<u>0.51 ft</u>
Max. Depth	<u>34 ft</u>	<u>0.51 ft</u>
Fineness Ratio	<u>6</u>	<u>6</u>
Area		
Max. Cross-Sectional	<u>907.92 ft²</u>	<u>0.204 ft²</u>
Planform	<u>—</u>	<u>—</u>
Wetted	<u>—</u>	<u>—</u>
Base :		
high wing	<u>866.67 ft²</u>	<u>0.195 ft²</u>
Low wing	<u>893.21 ft²</u>	<u>0.201 ft²</u>

TABLE V.

MODEL COMPONENT: W1
 GENERAL DESCRIPTION: Baseline booster wing 250-14

DRAWING NUMBER: NSRDC A152024-1

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area		
Planform	6020 ft ²	1.355 ft ²
Wetted	—	—
Span (equivalent)	120.67 ft.	1.01 ft
Aspect Ratio	2.42	2.12
Rate of Taper	—	—
Taper Ratio	.547	.547
Diehedral Angle, degrees	7°10' 15"	7°40' 15"
Incidence Angle, degrees	0° 3'	0° 3'
Aerodynamic Twist, degrees	—	—
Toe-In Angle	0°	0°
Cant Angle	—	—
Sweep Back Angles, degrees		
Leading Edge	40°	40°
Trailing Edge	12°31'	12°31'
0.25 Element Line	—	—
Chords:		
Root (Wing Sta. 0.0)	64.55 ft	.969 ft
Tip, (equivalent)	35.4 ft	.53 ft
MAC	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—
B.L. of .25 MAC	—	—
Airfoil Section		
Root	64A010	64A010
Tip	64A010	64A010

EXPOSED DATA

Area	3960 ft ²	.891 ft ²
Span, (equivalent)	86.8 ft	1.30 ft.
Aspect Ratio	1.89	1.89
Taper Ratio	.627	.627
Chords		
Root	56.4 ft	.845 ft
Tip	35.4	.53 ft
MAC	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—
B.L. of .25 MAC	—	—

TABLE VI.

MODEL COMPONENT: W2

GENERAL DESCRIPTION: An alternate high speed model wing

DRAWING NUMBER: NSRDC A-15 2024-5

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area		
Planform	5100 ft ²	1,148 ft ²
Wetted	—	—
Span (equivalent)	152.5 ft	229 ft
Aspect Ratio	.455	.455
Rate of Taper	—	—
Taper Ratio	—	—
Diehedral Angle, degrees	7°40', 15"	7°40', 15"
Incidence Angle, degrees	0° 3'	0° 3'
Aerodynamic Twist, degrees	0	0
Toe-In Angle	—	—
Cant Angle	—	—
Sweep Back Angles, degrees	—	—
Leading Edge	40°	40°
Trailing Edge	28.5°	28.5°
0.25 Element Line	—	—
Chords:		
Root (Wing Sta. 0.0)	45.9 ft	0.639 ft
Tip, (equivalent)	20.9 ft	0.314 ft
MAC	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—
B.L. of .25 MAC	—	—
Airfoil Section		
Root	64A010	64A010
Tip	64A010	64A010

NOT REPRODUCIBLE

EXPOSED DATA

Area	3500 ft ²	0.723 ft ²
Span, (equivalent)	118.2 ft	1.775 ft
Aspect Ratio	4	4
Taper Ratio	.547	.547
Chords		
Root	38.2 ft	0.574 ft
Tip	20.9 ft	0.314 ft
MAC	—	—
Fus. Sta. of .25 MAC	—	—
W.P. of .25 MAC	—	—
B.L. of .25 MAC	—	—

MODEL COMPONENT: VI

GENERAL DESCRIPTION: Booster wing tip vertical fin

(Dimensions given are for each tip)

DRAWING NUMBER: NSRDC A152027-1,4

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area		
Planform	1010 ft ²	.226 ft ²
Wetted		
Semi-Span (equivalent)	38.30 ft	.582 ft
Aspect Ratio	1.5	1.5
Rate of Taper		
Taper Ratio	.467	.467
Dihedral Angle, degrees	29°	29°
Incidence Angle, degrees	3°	3°
Aerodynamic Twist, degrees	0	0
Toe-In Angle	0	0
Cant Angle	0	0
Sweep Back Angles, degrees		
Leading Edge	40°	40°
Trailing Edge	19°31'	19°31'
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)	35.35 ft	.530 ft
Tip, (equivalent)	16.50 ft	.297 ft
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root	64A010	64A010
Tip	64A009	64A009

EXPOSED DATA

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

2(4)

TABLE VIII.

MODEL COMPONENT: V2

GENERAL DESCRIPTION: Booster wing tip extension

(Dimensions are for each tip)

DRAWING NUMBER: NSRDC A 152030-1

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area		
Planform	<u>671 ft²</u>	<u>0.15 ft²</u>
Wetted		
Span (equivalent)	<u>21.9 ft</u>	<u>.329 ft</u>
Aspect Ratio	<u>0.72</u>	<u>0.72</u>
Rate of Taper		
Taper Ratio	<u>0.70</u>	<u>0.70</u>
Dihedral Angle, degrees	<u>7°40' 15"</u>	<u>7°40' 15"</u>
Incidence Angle, degrees	<u>0° 3'</u>	<u>0° 3'</u>
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	<u>40°</u>	<u>40°</u>
Trailing Edge	<u>19°31'</u>	<u>19°31'</u>
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)	<u>35.9 ft</u>	<u>.538 ft</u>
Tip, (equivalent)	<u>25.2 ft</u>	<u>.378 ft</u>
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root	<u>64A010</u>	<u>64A010</u>
Tip	<u>64A010</u>	<u>64A010</u>

NOT REPRODUCIBLE

EXPOSED DATA

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

TABLE IX.

MODEL COMPONENT: DI

GENERAL DESCRIPTION: Booby Large Dorsal fin

DRAWING NUMBER: NSDC A152016-1

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>1996 ft²</u>	<u>0.449 ft²</u>
Span (equivalent)	<u>55.4 ft</u>	<u>.931 ft</u>
Inb'd equivalent chord	<u>48.8 ft</u>	<u>.731 ft</u>
Outb'd equivalent chord	<u>22.2 ft</u>	<u>.333 ft</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.30</u>	<u>.30</u>
At Outb'd equiv. chord	<u>.30</u>	<u>.30</u>
Sweep Back Angles, degrees		
Leading Edge	<u>55°</u>	<u>55°</u>
Tailing Edge	<u>43.5°</u>	<u>43.5°</u>
Hingeline	<u>—</u>	<u>—</u>
Area Moment (Normal to hinge line)	<u>—</u>	<u>—</u>

TABLE X.

MODEL COMPONENT: D2

GENERAL DESCRIPTION: Booster small Dorsal Fin

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>1450 ft.²</u>	<u>.326 ft.²</u>
Span (equivalent)	<u>36.1 ft.</u>	<u>.541 ft.</u>
Inb'd equivalent chord	<u>48.8 ft.</u>	<u>.731 ft.</u>
Outb'd equivalent chord	<u>31.5 ft.</u>	<u>.473 ft.</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.30</u>	<u>.30</u>
At Outb'd equiv. chord	<u>.30</u>	<u>.30</u>
Sweep Back Angles, degrees		
Leading Edge	<u>55°</u>	<u>65°</u>
Tailing Edge	<u>43.5°</u>	<u>43.5°</u>
Hingeline	<u>—</u>	<u>—</u>
Area Moment (Normal to hinge line)	<u>—</u>	<u>—</u>

TABLE XI.

MODEL COMPONENT: D3

GENERAL DESCRIPTION: Booster small Dorsal Fin

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>1360 ft.²</u>	<u>.306 ft.²</u>
Span (equivalent)	<u>33.3 ft.</u>	<u>.500 ft.</u>
Inb'd equivalent chord	<u>48.8 ft.</u>	<u>.731 ft.</u>
Outb'd equivalent chord	<u>32.8 ft.</u>	<u>.412 ft.</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.30</u>	<u>.30</u>
At Outb'd equiv. chord	<u>.30</u>	<u>.30</u>
Sweep Back Angles, degrees		
Leading Edge	<u>55°</u>	<u>55°</u>
Tailing Edge	<u>43.5°</u>	<u>43.5°</u>
Hingeline	<u>—</u>	<u>—</u>
Area Moment (Normal to hinge line)	<u>—</u>	<u>—</u>

TABLE XII.

MODEL COMPONENT: C1

GENERAL DESCRIPTION: Power for large aircraft

DRAWING NUMBER: NSRDC A152018-5

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area		
Planform	<u>2650 ft²</u>	<u>0.596 ft²</u>
Wetted	<u>—</u>	<u>—</u>
Span (equivalent)	<u>78.7 ft</u>	<u>1.18 ft</u>
Aspect Ratio	<u>2.34</u>	<u>2.34</u>
Rate of Taper	<u>—</u>	<u>—</u>
Taper Ratio	<u>.124</u>	<u>.124</u>
Diehedral Angle, degrees	<u>0</u>	<u>0</u>
Incidence Angle, degrees	<u>3° 15'</u>	<u>3° 15'</u>
Aerodynamic Twist, degrees	<u>0</u>	<u>0</u>
Toe-In Angle	<u>—</u>	<u>—</u>
Cant Angle	<u>—</u>	<u>—</u>
Sweep Back Angles, degrees		
Leading Edge	<u>53° 09'</u>	<u>53° 00'</u>
Trailing Edge	<u>0</u>	<u>0</u>
0.25 Element Line	<u>—</u>	<u>—</u>
Chords:		
Root (Wing Sta. 0.0)	<u>59.8 ft</u>	<u>.827 ft</u>
Tip, (equivalent)	<u>7.47 ft</u>	<u>.112 ft</u>
MAC, inches	<u>—</u>	<u>—</u>
Fus. Sta. of .25 MAC	<u>—</u>	<u>—</u>
W.P. of .25 MAC	<u>—</u>	<u>—</u>
Airfoil Section		
Root	<u>64A010</u>	<u>64A010</u>
Tip	<u>64A010</u>	<u>64A010</u>

NOT REPRODUCIBLE

EXPOSED DATA

Area	<u>1000 ft²</u>	<u>0.225 ft²</u>
Span, (equivalent)	<u>44.7 ft</u>	<u>0.67 ft</u>
Aspect Ratio	<u>2</u>	<u>2</u>
Taper Ratio	<u>.2</u>	<u>.2</u>
Chords		
Root	<u>37.3 ft</u>	<u>0.559 ft</u>
Tip	<u>7.47 ft</u>	<u>0.112 ft</u>
MAC	<u>—</u>	<u>—</u>
Fus. Sta. of .25 MAC	<u>—</u>	<u>—</u>
W.P. of .25 MAC	<u>—</u>	<u>—</u>

TABLE XIII.

MODEL COMPONENT: C2

GENERAL DESCRIPTION: Porter small canard

DRAWING NUMBER: NSRDC A152018-5

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area		
Planform	2235 ft ²	0.503 ft ²
Wetted		
Span (equivalent)	72.6 ft	1.09 ft
Aspect Ratio	2.36	2.36
Rate of Taper		
Taper Ratio	.118	.118
Dihedral Angle, degrees	0	0
Incidence Angle, degrees	3° 15'	3° 15'
Aerodynamic Twist, degrees	0	0
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	53°	53°
Trailing Edge	0	0
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)	55. ft	.825 ft
Tip, (equivalent)	6.47 ft	.097 ft
MAC, inches		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
Airfoil Section		
Root	64A010	64A010
Tip	64A010	64A010

EXPOSED DATA

Area	750 ft ²	0.169 ft ²
Span, (equivalent)	38.8 ft	0.531 ft
Aspect Ratio	2	2
Taper Ratio	0.2	0.2
Chords		
Root	32.2 ft	0.434 ft
Tip	6.46 ft	0.097 ft
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

TABLE XIV.

MODEL COMPONENT: C 3

GENERAL DESCRIPTION: C 2 with F1 porton removed.

DRAWING NUMBER: _____

DIMENSIONS:

TOTAL DATA

Area
 Planform
 Wetted
 Span (equivalent)
 Aspect Ratio
 Rate of Taper
 Taper Ratio
 Dihedral Angle, degrees
 Incidence Angle, degrees
 Aerodynamic Twist, degrees
 Toe-In Angle
 Cant Angle
 Sweep Back Angles, degrees
 Leading Edge
 Trailing Edge
 0.25 Element Line
 Chords:
 Root (Wing Sta. 0.0)
 Tip, (equivalent)
 MAC, inches
 Fus. Sta. of .25 MAC
 W.P. of .25 MAC
 Airfoil Section
 Root
 Tip

FULL-SCALE

MODEL SCALE

1788 ft ²	.4023 ft ²
—	—
76.2 ft	1.09 ft
3.25	3.25
—	—
.118	.118
2°	0°
3°	3°
0°	0°
—	—
—	—
53°	53°
14°55'	14°55'
—	—
44.0 ft.	.66 ft.
5.17 ft.	.0776 ft.
—	—
—	—
—	—
64A010 with last 20% removed.	
64A010 with last 20% removed.	

EXPOSED DATA

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

600 ft ²	.135 ft ²
38.8 ft	.581 ft.
2.5	7.5
.20	.20
—	—
25.76 ft.	.3814 ft.
5.17 ft.	.0776 ft.
—	—
—	—
—	—

NOT REPRODUCIBLE

TABLE XV.

MODEL COMPONENT: F1 FOR CANARD C1

GENERAL DESCRIPTION: Round canard trailing edge canard
(20% chord - exposed area)

DRAWING NUMBER: NSRDC A15201718

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>200 ft²</u>	<u>0.015 ft²</u>
Span (equivalent)	<u>44.7 ft</u>	<u>0.67 ft</u>
Inb'd equivalent chord	<u>7.46 ft</u>	<u>0.112 ft</u>
Outb'd equivalent chord	<u>1.495 ft</u>	<u>0.0224 ft</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2</u>	<u>0.2</u>
At Outb'd equiv. chord	<u>0.2</u>	<u>0.2</u>
Sweep Back Angles, degrees		
Leading Edge	<u>14°56'</u>	<u>14°56'</u>
Tailing Edge	<u>0</u>	<u>0</u>
Hingeline	<u>—</u>	<u>—</u>
Area Moment (Normal to hinge line)	<u>—</u>	<u>—</u>

TABLE XVI. XVI

MODEL COMPONENT: F1 FOIL CANARD C2

GENERAL DESCRIPTION: Booster covered trailing edge flap
(20% chord - exposed area)

DRAWING NUMBER: _____

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>150 ft²</u>	<u>0.0338 ft²</u>
Span (equivalent)	<u>38.8 ft</u>	<u>0.581 ft</u>
Inb'd equivalent chord	<u>6.45 ft</u>	<u>0.0968 ft</u>
Outb'd equivalent chord	<u>1.295 ft</u>	<u>0.0194 ft</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2</u>	<u>0.2</u>
At Outb'd equiv. chord	<u>0.2</u>	<u>0.2</u>
Sweep Back Angles, degrees		
Leading Edge	<u>14°55'</u>	<u>14°55'</u>
Trailing Edge	<u>0</u>	<u>0</u>
Hingeline	<u>—</u>	<u>—</u>
Area Moment (Normal to hinge line)	<u>—</u>	<u>—</u>

MODEL COMPONENT: F2 WITH CANARD C1

GENERAL DESCRIPTION: Booster canard trailing edge control
(40% chord)

DRAWING NUMBER: NSRDC A152017, 18

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>400 ft²</u>	<u>.09 ft²</u>
Span (equivalent)	<u>44.7 ft</u>	<u>0.67 ft</u>
Inb'd equivalent chord	<u>14.92 ft</u>	<u>0.229 ft</u>
Outb'd equivalent chord	<u>2.93 ft</u>	<u>0.0448 ft</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.4</u>	<u>0.4</u>
At Outb'd equiv. chord	<u>0.4</u>	<u>0.4</u>
Sweep Back Angles, degrees		
Leading Edge	<u>28°09'</u>	<u>28°09'</u>
Trailing Edge	<u>0</u>	<u>0</u>
Hingeline	<u>—</u>	<u>—</u>
Area Moment (Normal to hinge line)	<u>—</u>	<u>—</u>

TABLE XVIII.

XVIII

MODEL COMPONENT: F2 WITH CANARD C2

GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>300 ft²</u>	<u>0.0676 ft²</u>
Span (equivalent)	<u>38.8 ft</u>	<u>0.581 ft</u>
Inb'd equivalent chord	<u>12.9 ft</u>	<u>0.1936 ft</u>
Outb'd equivalent chord	<u>2.59 ft</u>	<u>0.0388 ft</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.4</u>	<u>0.4</u>
At Outb'd equiv. chord	<u>0.4</u>	<u>0.4</u>
Sweep Back Angles, degrees		
Leading Edge	<u>28°</u>	<u>29°</u>
Tailing Edge	<u>0</u>	<u>0</u>
Hingeline	<u>—</u>	<u>—</u>
Area Moment (Normal to hinge line)	<u>—</u>	<u>—</u>

MODEL COMPONENT: F 3

GENERAL DESCRIPTION: Canard Flap. Consists of F2 for C2 with F1 portion removed.

DRAWING NUMBER: _____

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>150 ft.²</u>	<u>0.0338 ft.²</u>
Span (equivalent)	<u>38.8 ft.</u>	<u>0.581 ft.</u>
Inb'd equivalent chord	<u>6.45 ft.</u>	<u>0.0768 ft.</u>
Outb'd equivalent chord	<u>2.54 ft.</u>	<u>0.0194 ft.</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.333</u>	<u>0.333</u>
At Outb'd equiv. chord	<u>0.333</u>	<u>0.333</u>
Sweep Back Angles, degrees		
Leading Edge	<u>28°</u>	<u>28°</u>
Trailing Edge	<u>14° 55'</u>	<u>14° 55'</u>
Hingeline	<u>—</u>	<u>—</u>
Area Moment (Normal to hinge line)	<u>—</u>	<u>—</u>

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_{ref}	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 Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal force coefficient; F_N/qS
C_A	CA	axial force coefficient; F_A/qS
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_m	CLM	pitching moment coefficient; $M_y/qS l_{ref}$
C_y	CY	side force coefficient; F_y/qS
C_n	CYN	yawing moment coefficient; $M_z/qS b_{ref}$
C_l	CBL	rolling moment coefficient, $M_x/qS b_{ref}$

NOMENCLATURE (Continued)

Stability Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</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_m	CIM	pitching moment coefficient; $M_{Y,s}/qS l_{ref}$
C_y	CY	side force coefficient; F_Y/qS
C_n	CIN	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>	SADSAC <u>SYMBOL</u>	<u>DEFINITION</u>
i_t	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

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
CNDPOS	CNDPOS	canard vertical position (1=high, 2=low)
WNGPOS	WNGPOS	wing vertical position (1=high, 2=low)
i_w	INCIDW	wing incidence angle, positive when trailing edge down; deg.
Γ_w	DIHDRL	wing dihedral angle; deg.
i_c	INCIDC	canard incidence angle, positive when trailing edge down; deg.
ΔC_L	DCL	incremental lift coefficient, algebraic difference of two runs.
ΔC_D	DCD	incremental drag coefficient, algebraic difference of two runs.
ΔC_M	DCIM	incremental pitching moment coefficient, algebraic difference of two runs.
$\Delta L/D$	DL/D	incremental lift drag ratio, algebraic difference of two runs.
ΔC_y	DCY	incremental side force coefficient, algebraic difference of two runs.
ΔC_n	DCYN	incremental yawing moment coefficient, algebraic difference of two runs. Body axis system.
ΔC_l	DCBL	incremental rolling moment coefficient, algebraic difference of two runs. Body axis system.

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
NSRDC	Mr. D. Chadock

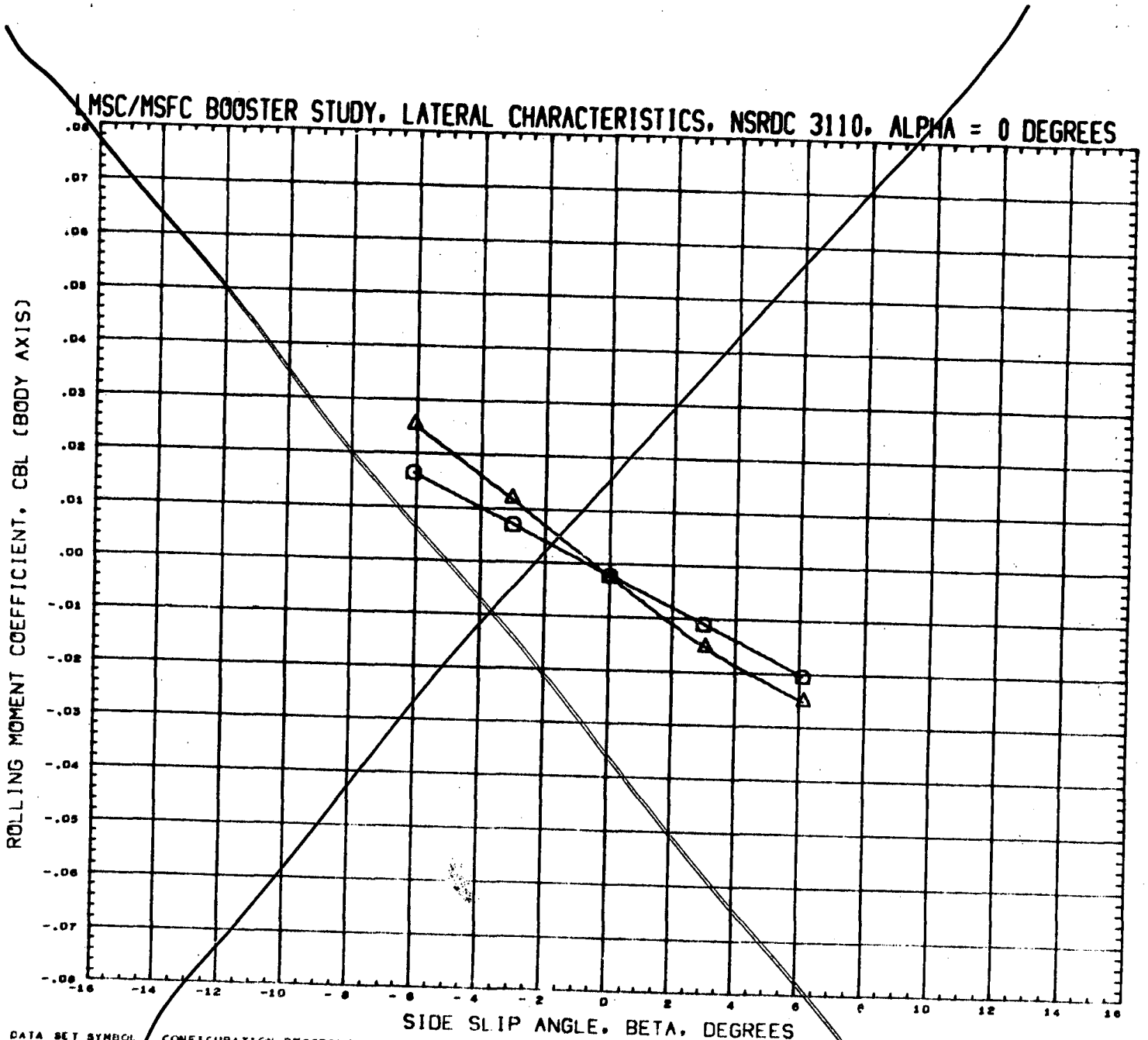
If copies of this listing are desired, please contact the above or the cognizant SADSAC personnel who, for this data, is:

W. R. Morgan
Department 2780
Chrysler Corporation Space Division
New Orleans, La. 70129

(504) 255-2304

PLOTTED DATA

Duped PAGE



DATA SET SYMBOL
(RN2122)
(RN2126)

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NSRDC-3110, MSFC/LMSC BOOSTER BICIF1W1V1

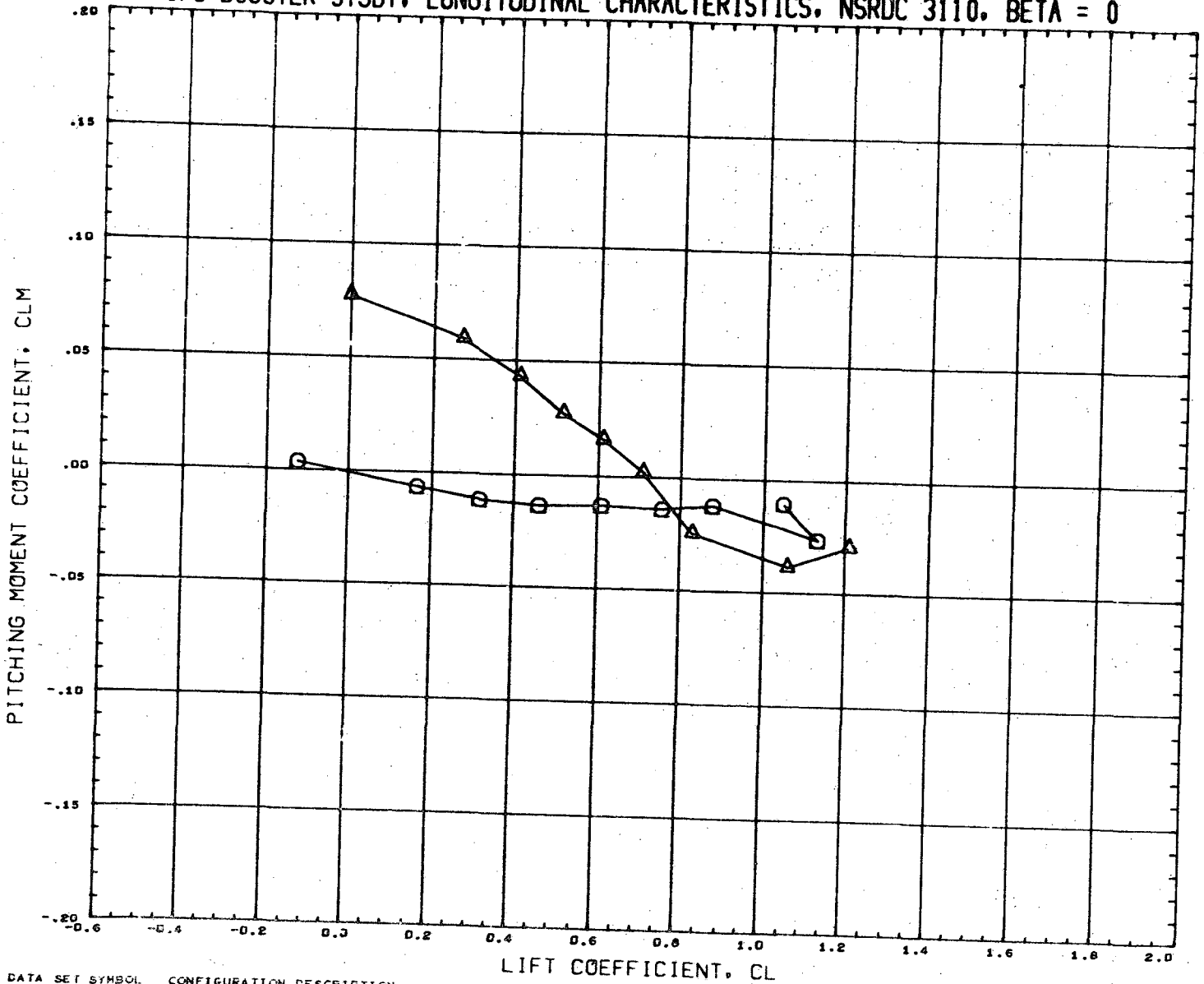
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BREF	41.4360	INCHES
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ZMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.362

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



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 (RN2125) 

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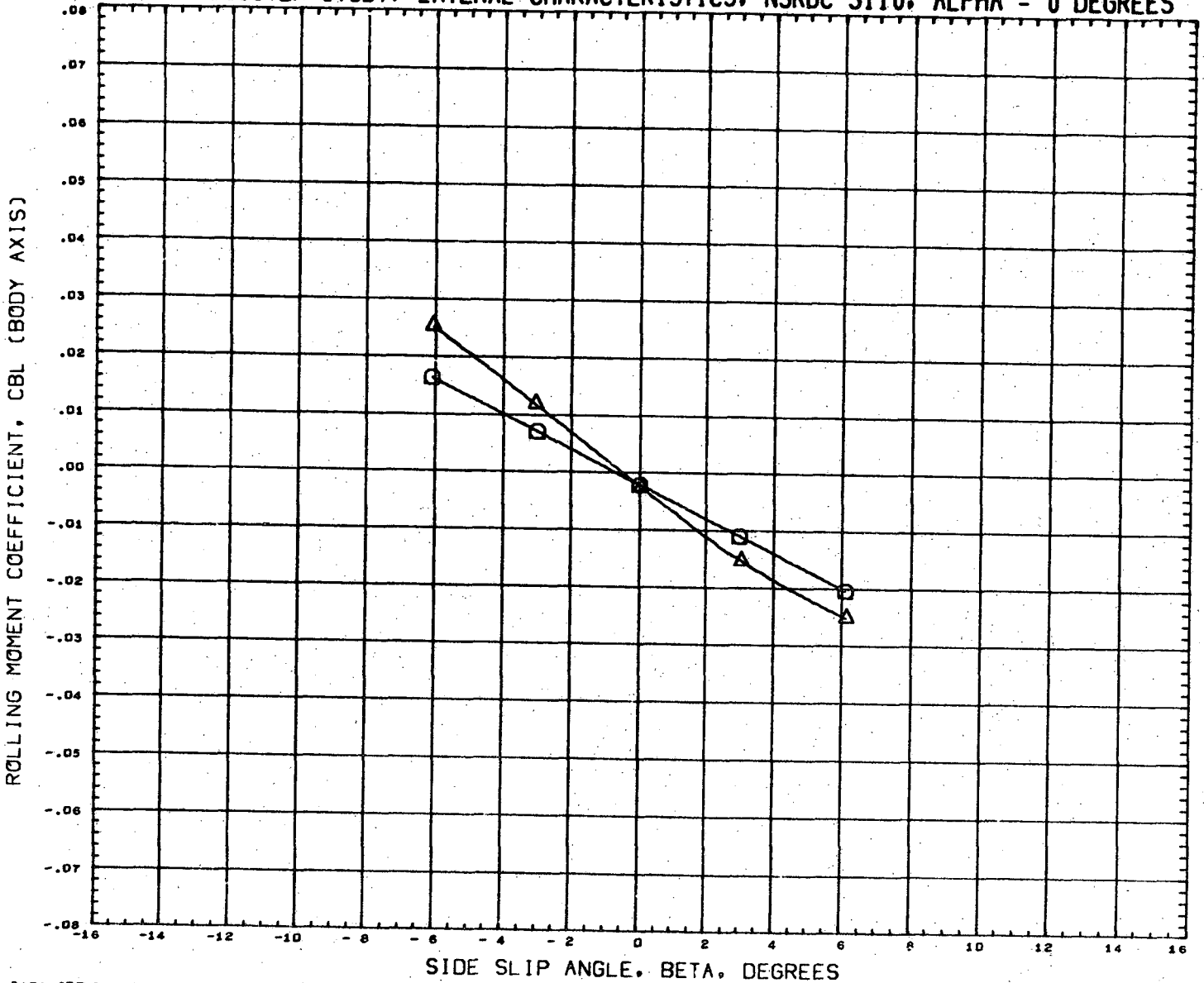
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REFERENCE INFORMATION

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MACH 0.382

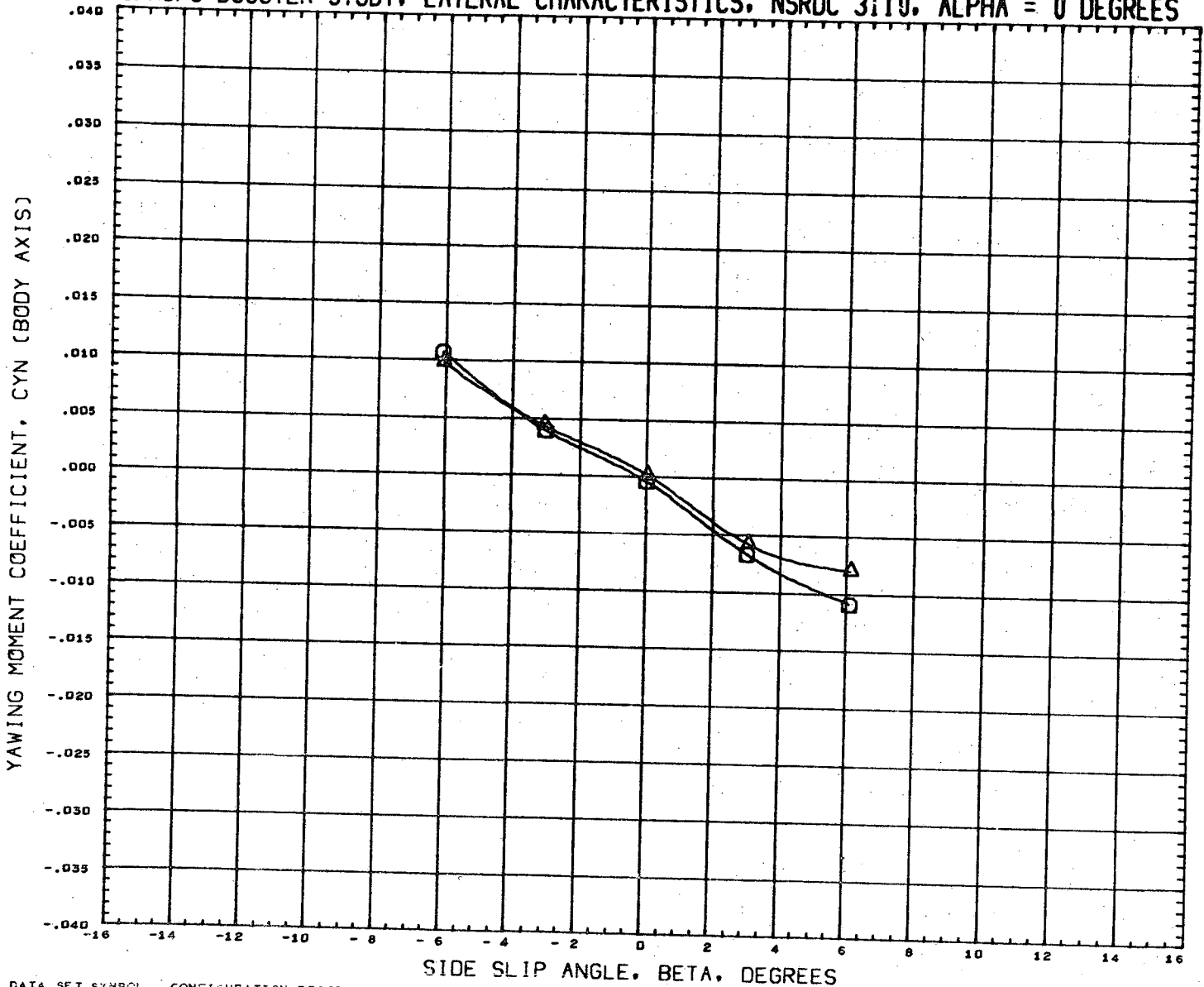
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MACH 0.382

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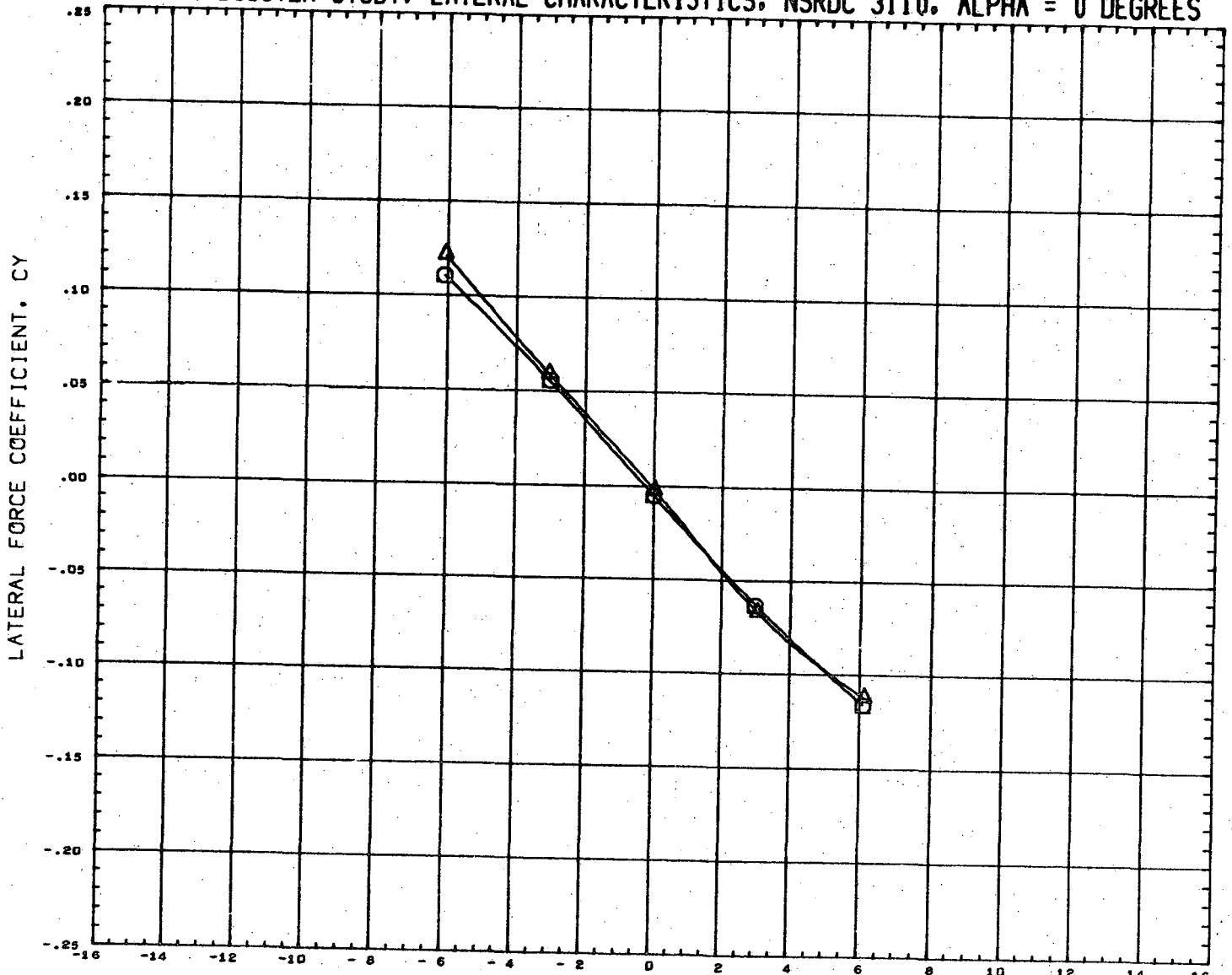
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YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



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(RN2126)



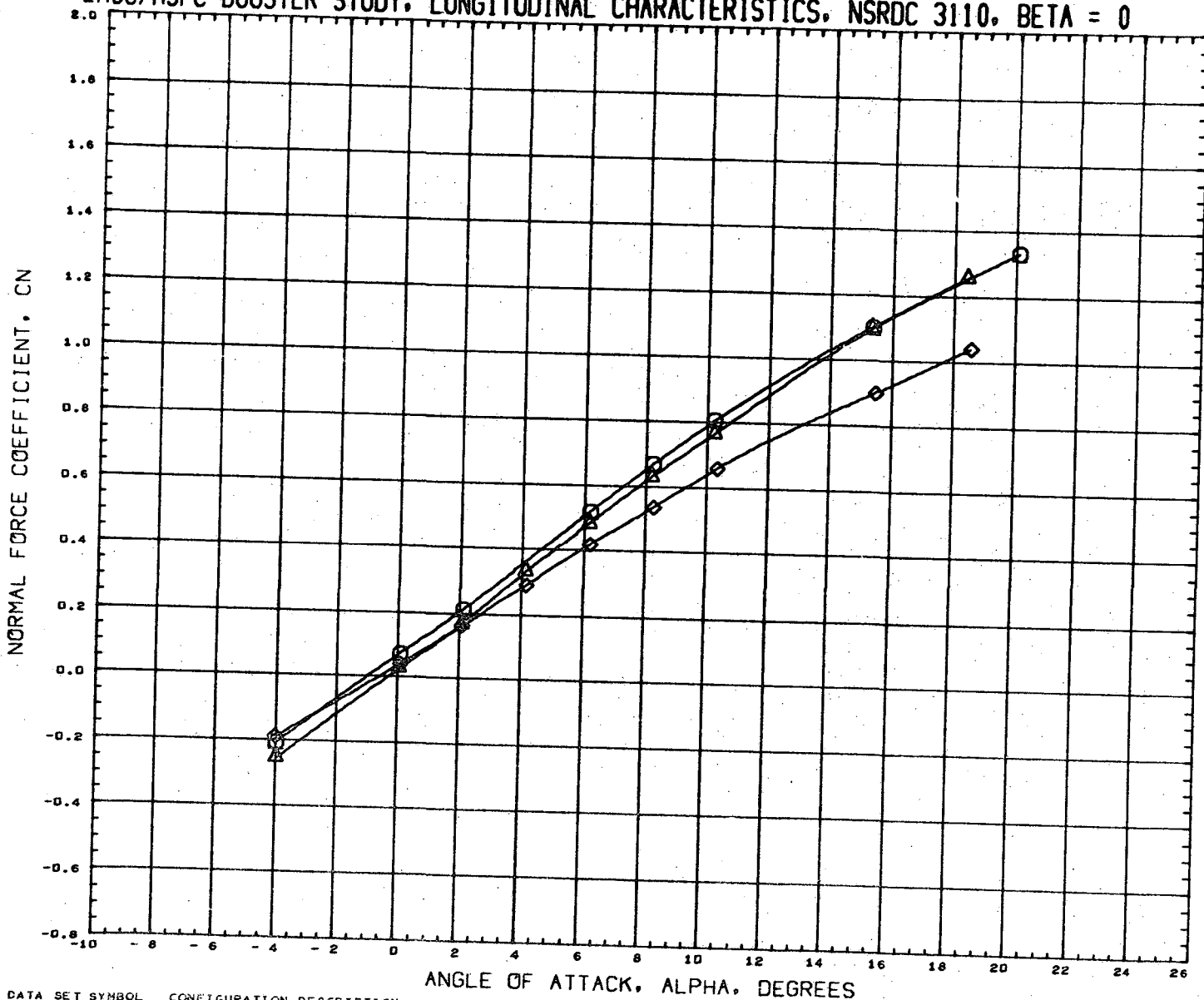
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MACH 0.392

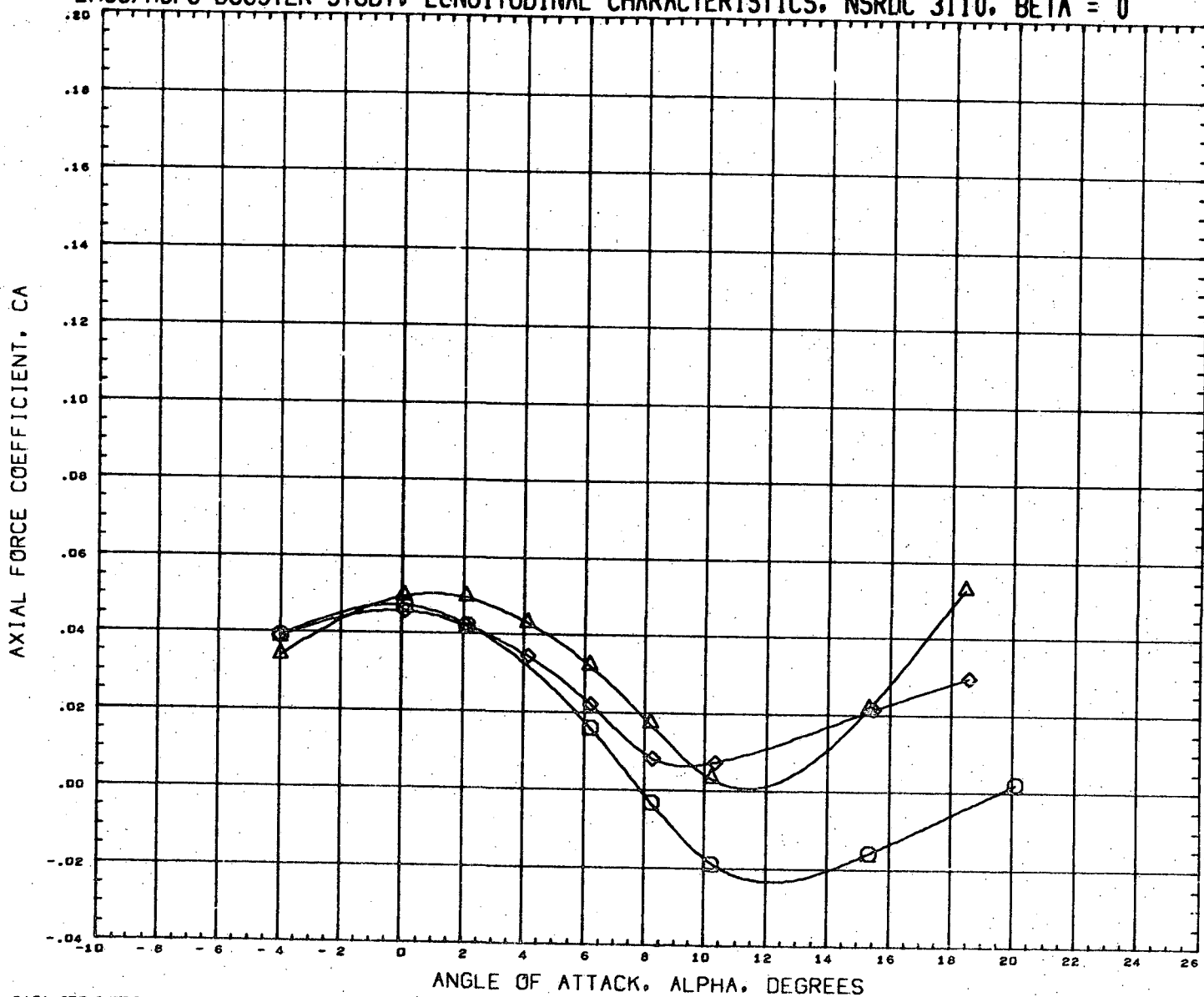
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(RN2257)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	0.000	1.000	BREF 41.4360 INCHES
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MACH 0.381

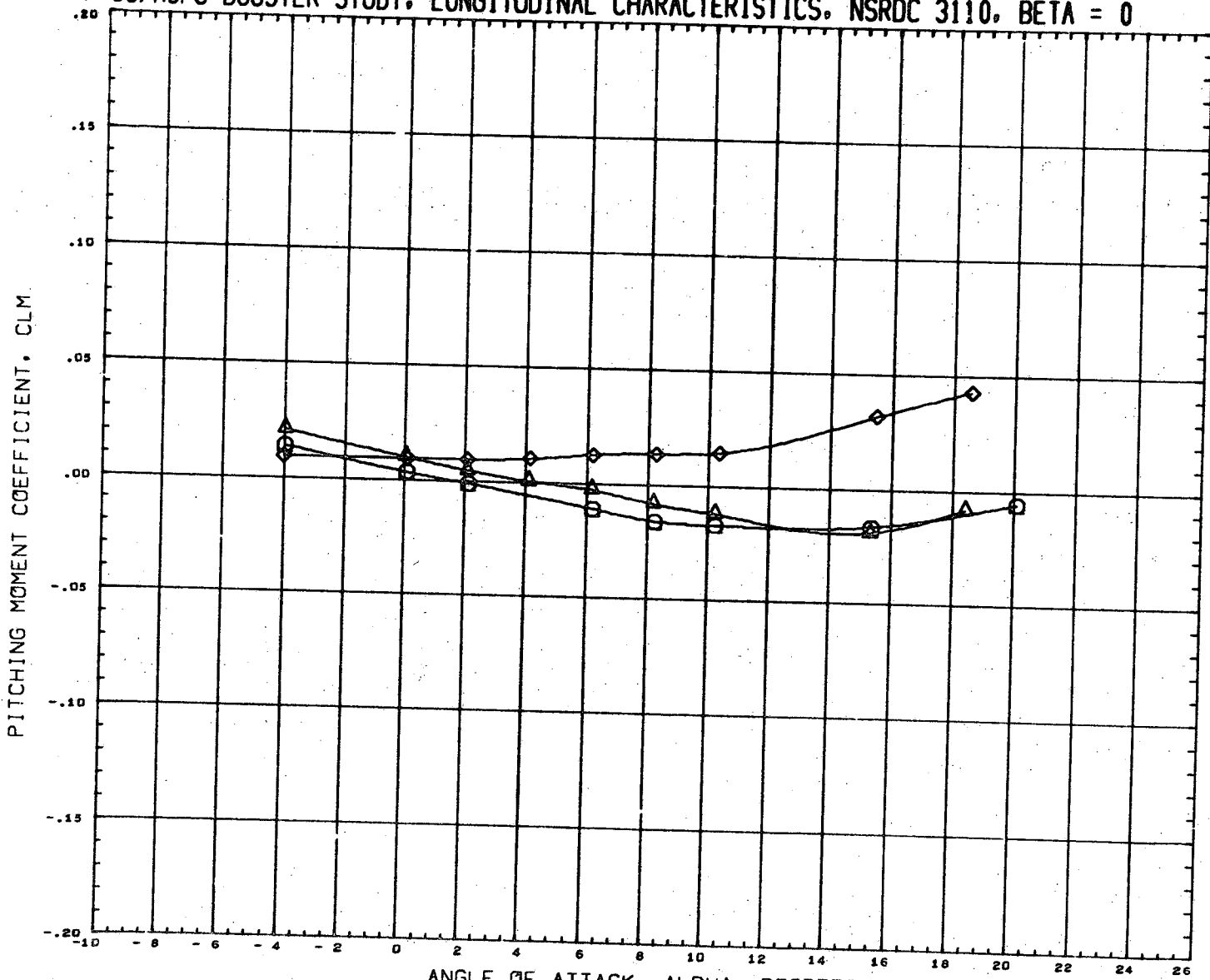
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MACH 0.381

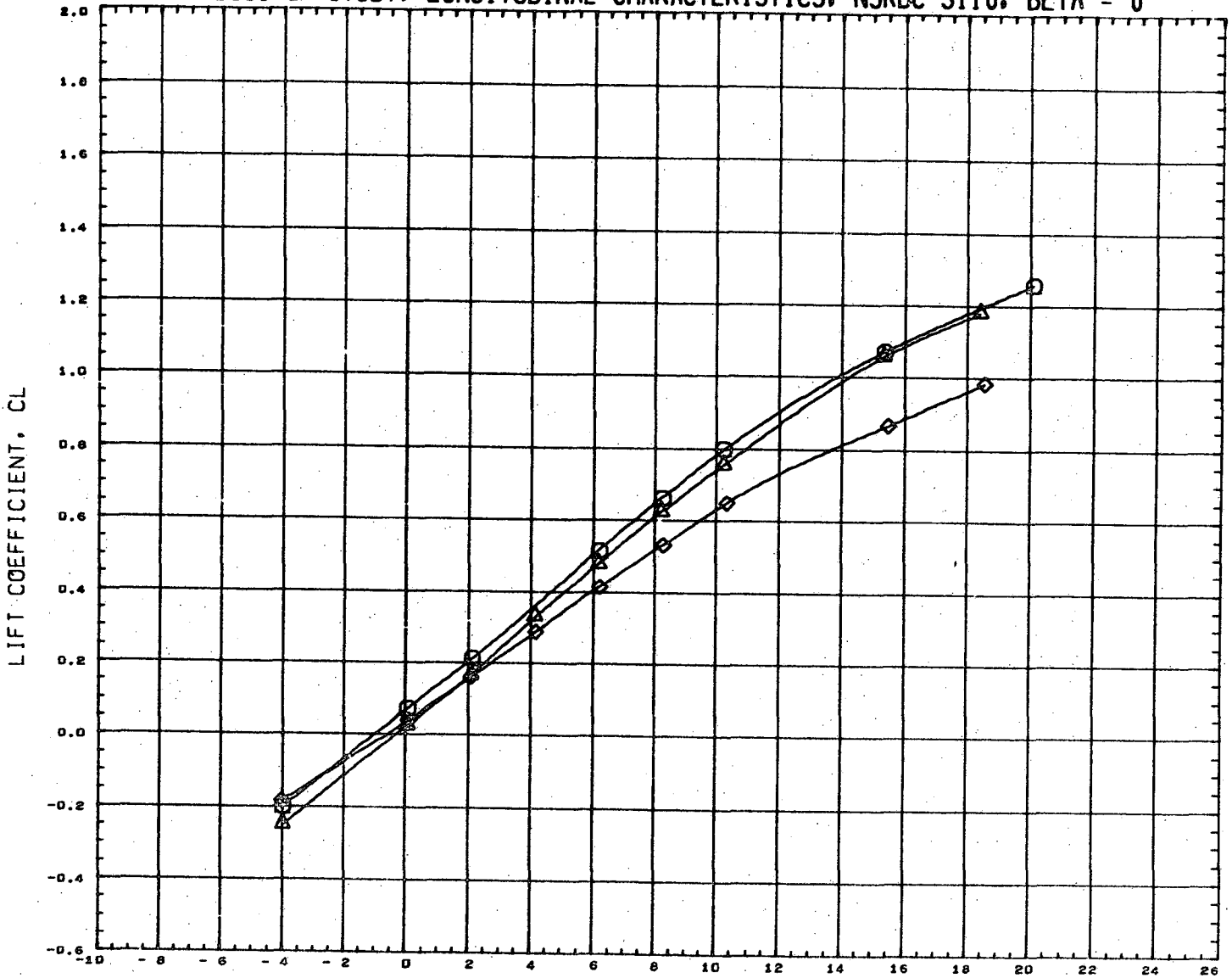
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MACH 0.381

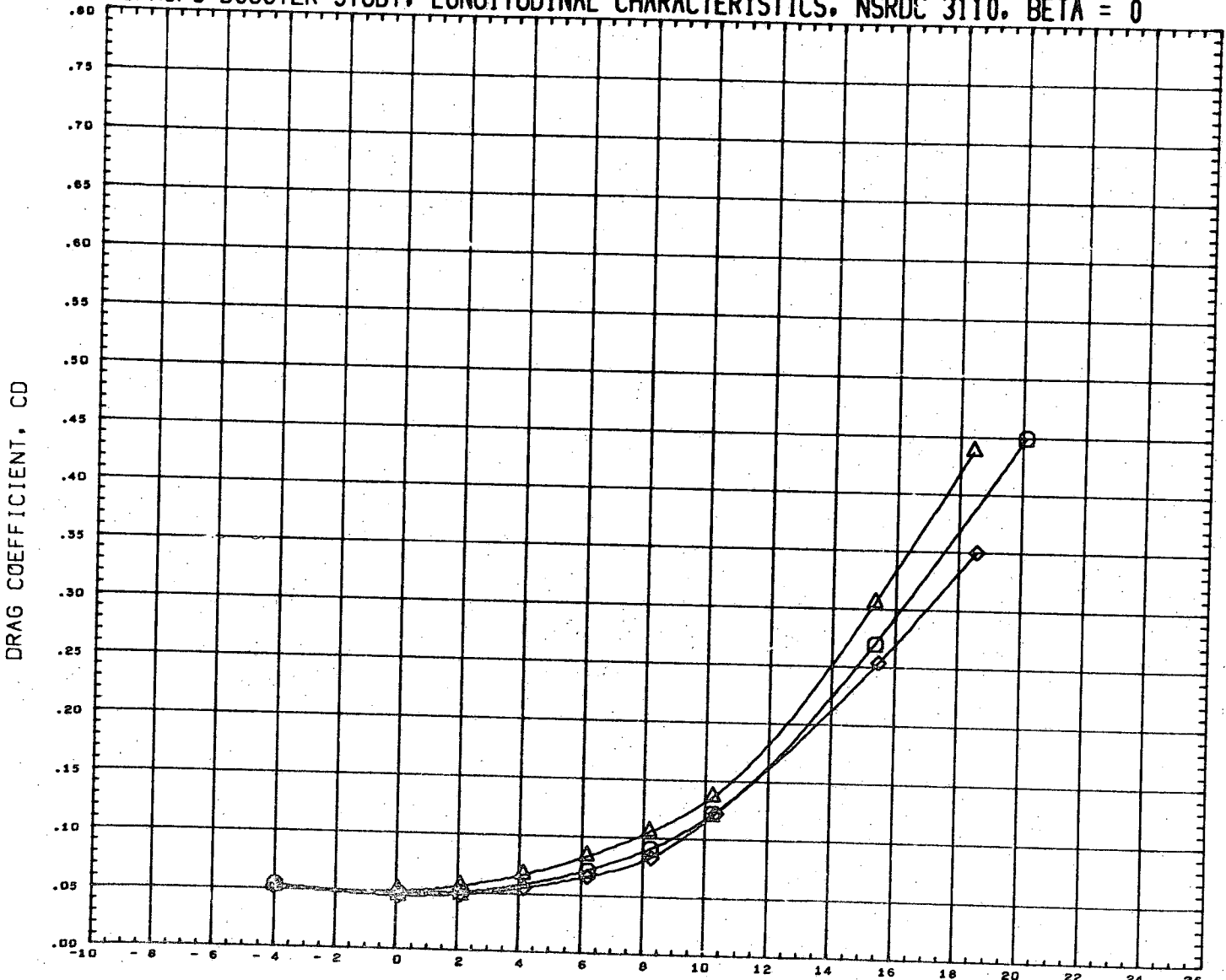
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MACH 0.381

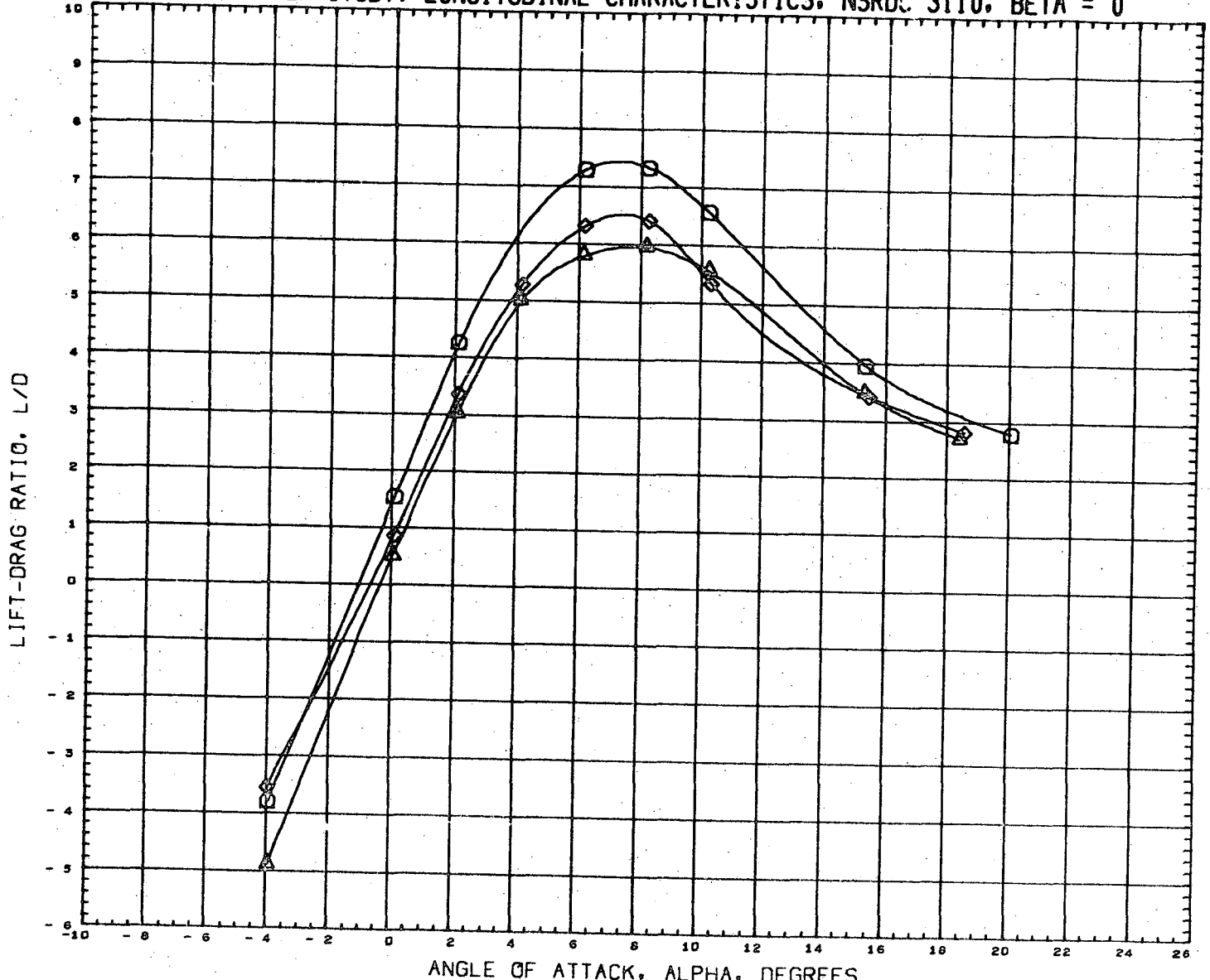
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MACH 0.381

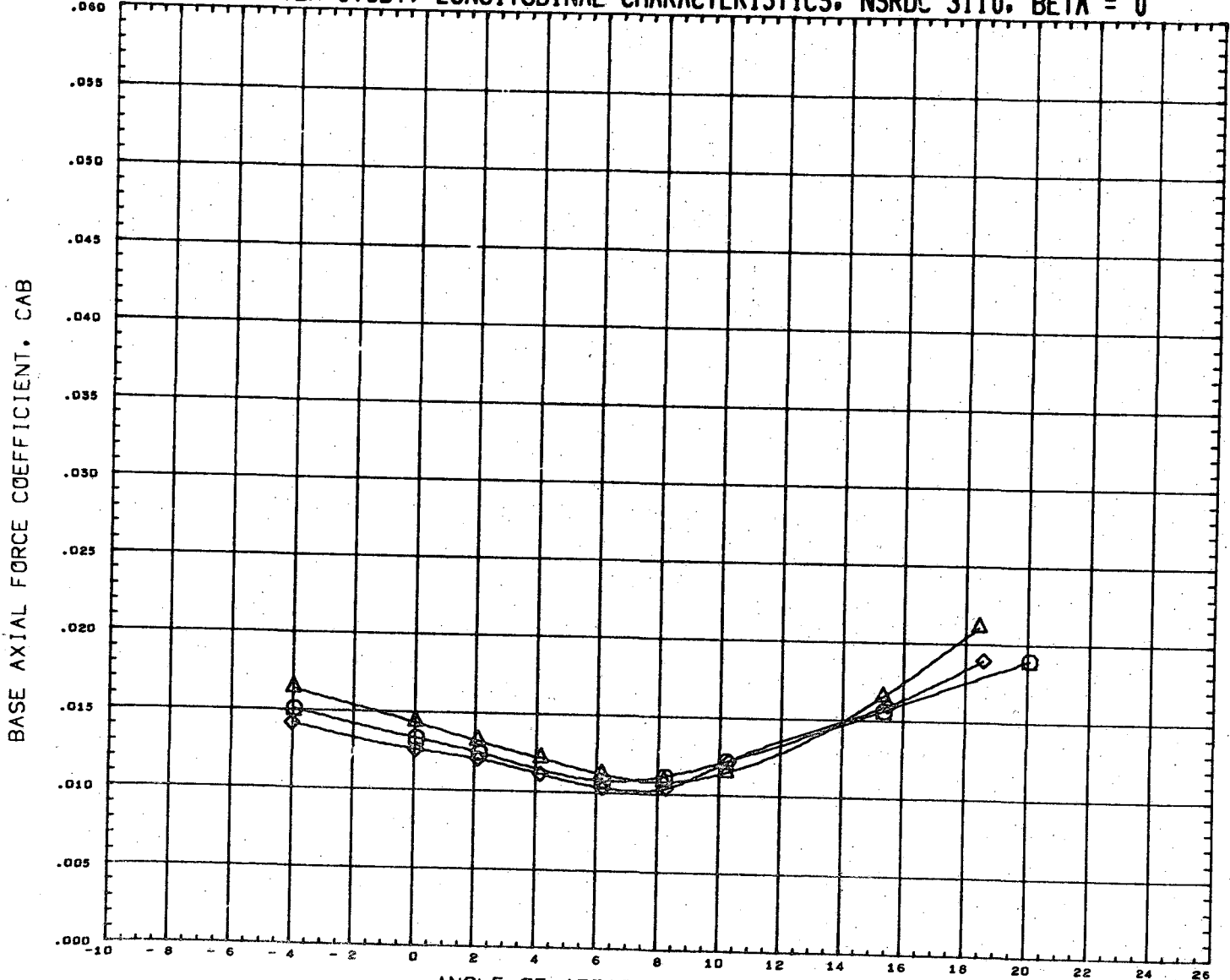
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MACH 0.381

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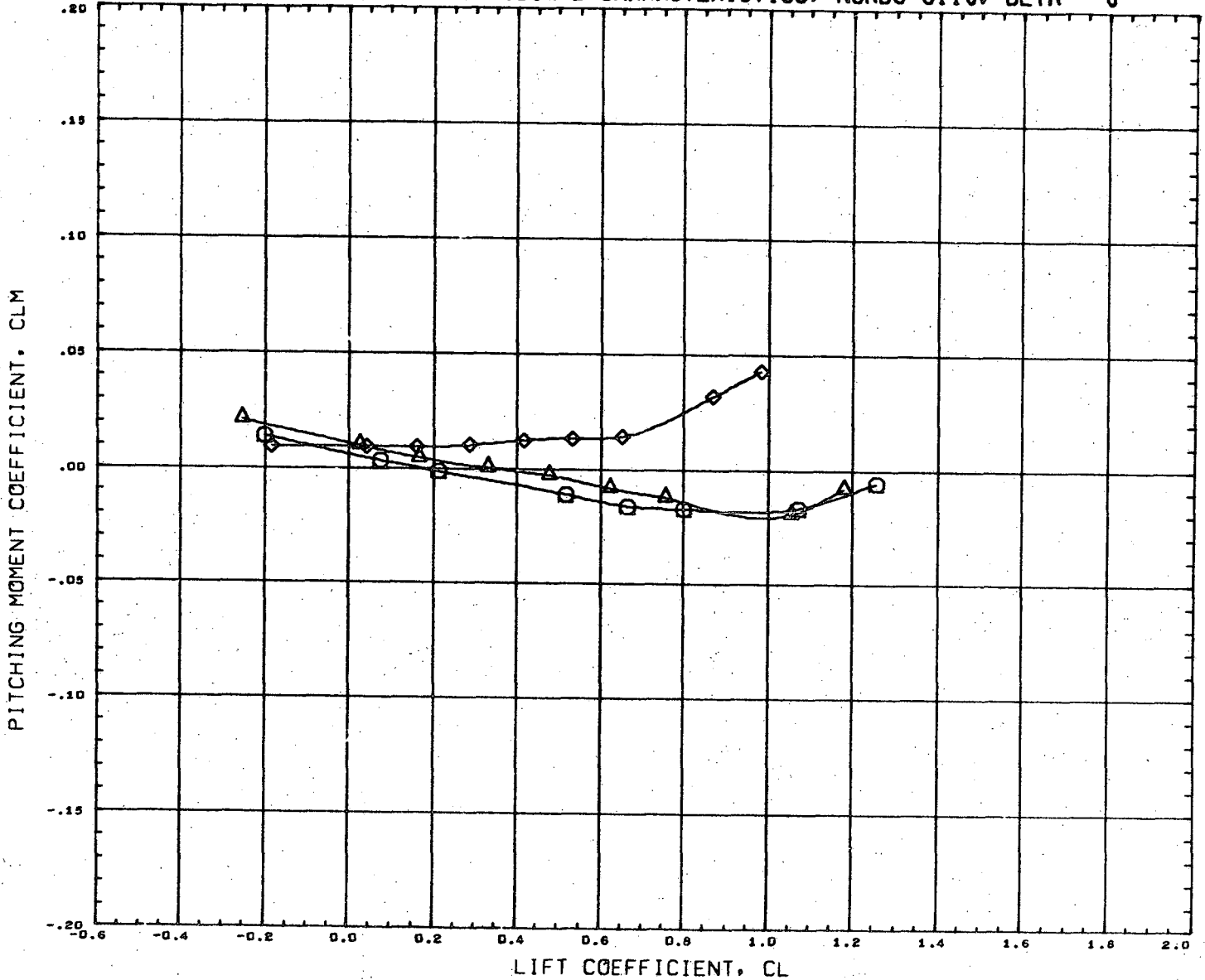


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3.000	1.000	0.000	1.000	BREF	41.4360 INCHES
				XMRP	31.1400 INCHES
				YMRP	0.0000 INCHES
				ZMRP	0.2250 INCHES
				SCALE	1.5000 PERCNT

MACH 0.381

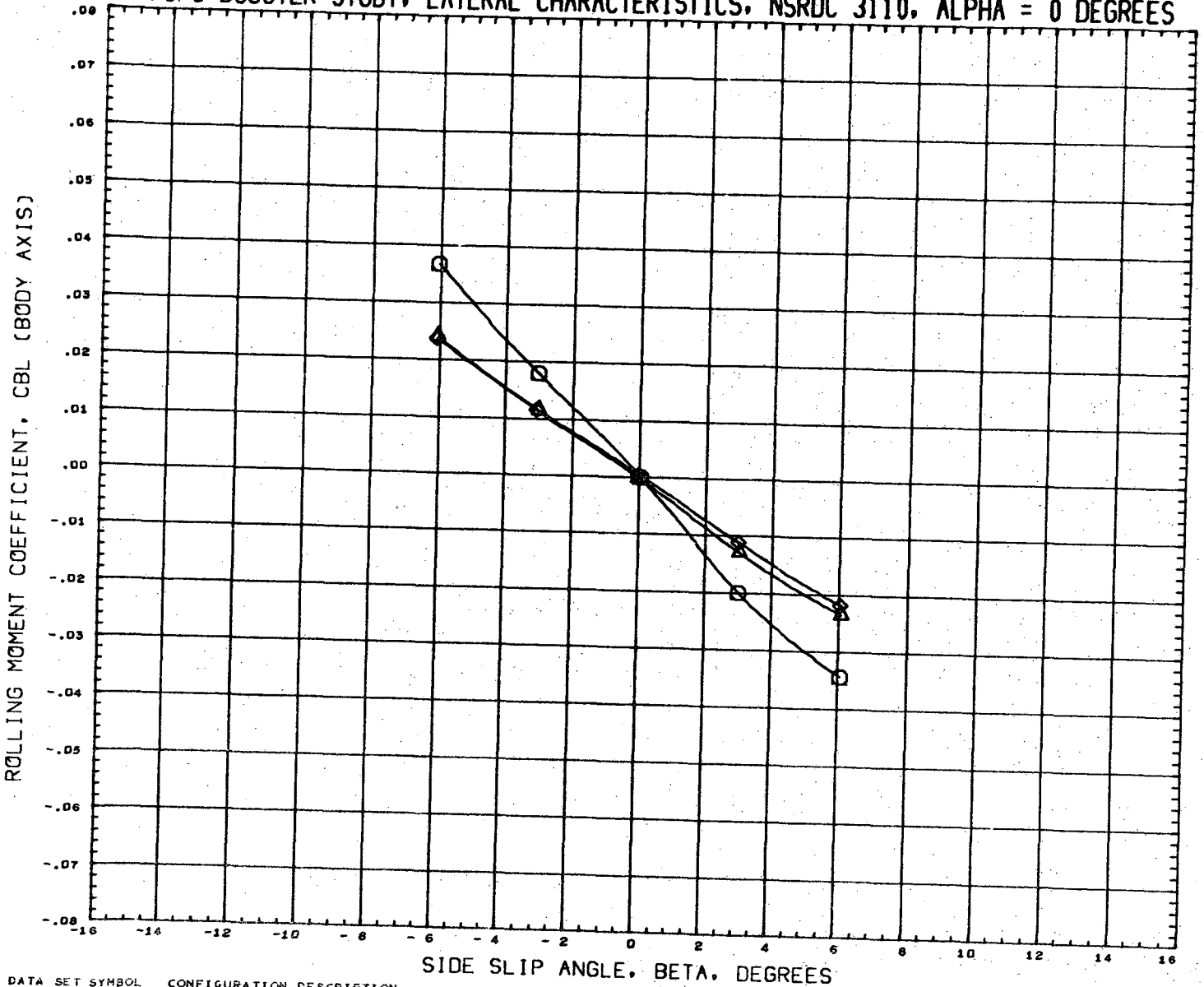
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(RN2193)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000	LREF 41.4360 INCHES
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						ZMRP 0.2250 INCHES
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MACH 0.381

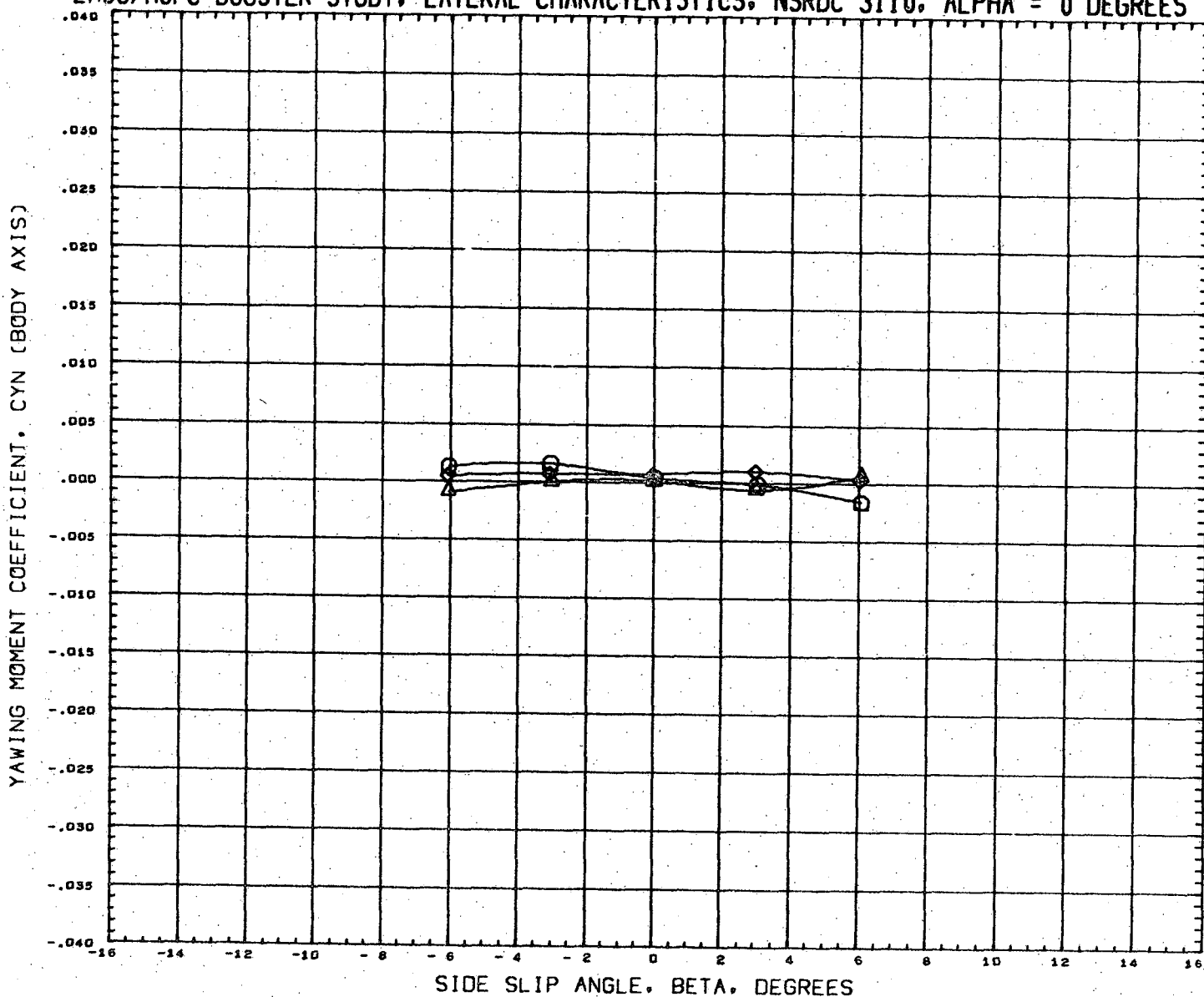
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(RN2194)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2258)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

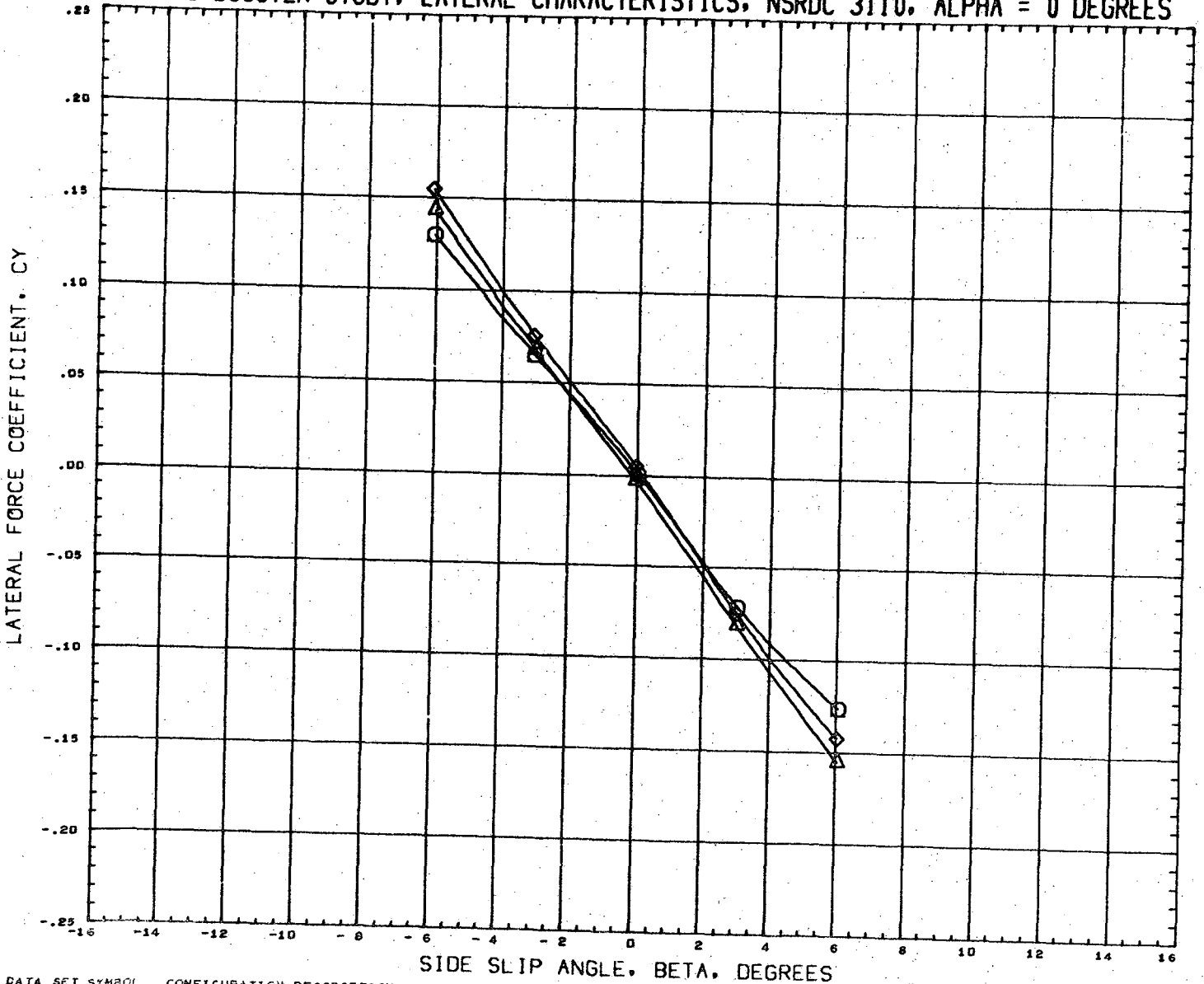
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2002)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2194)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2258)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	0.000	1.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



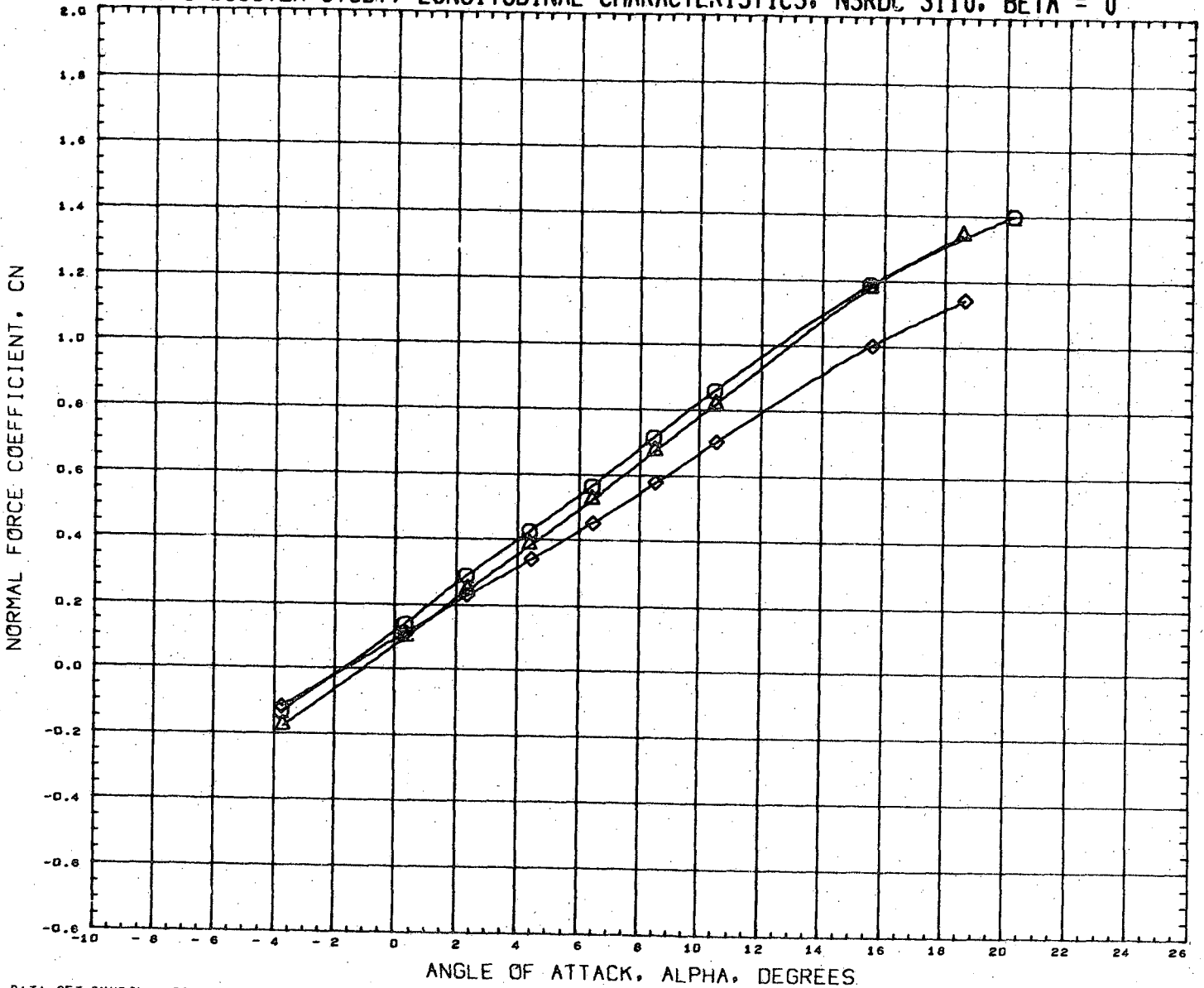
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2002)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2194)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2258)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.381

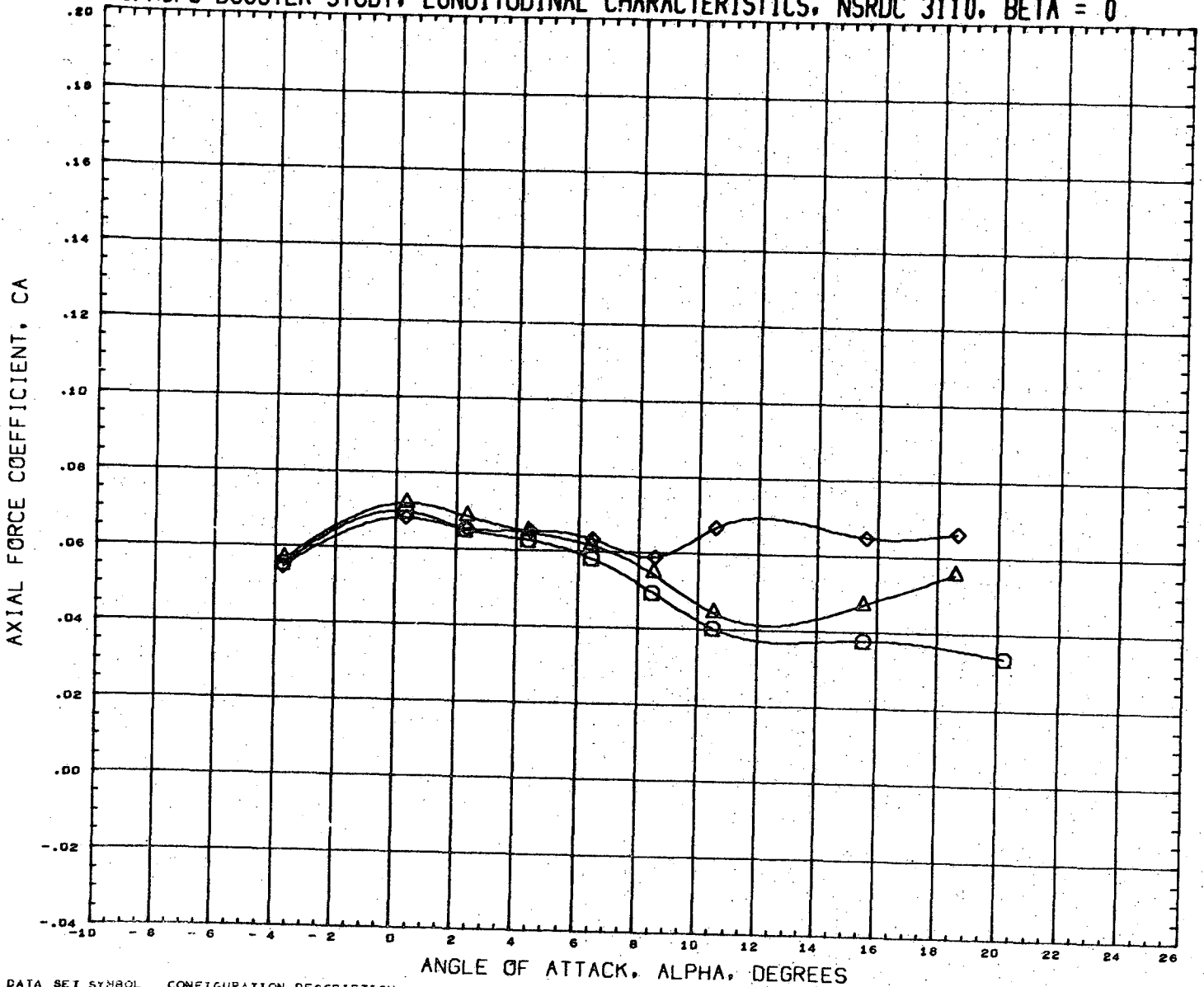
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2197)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2261)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

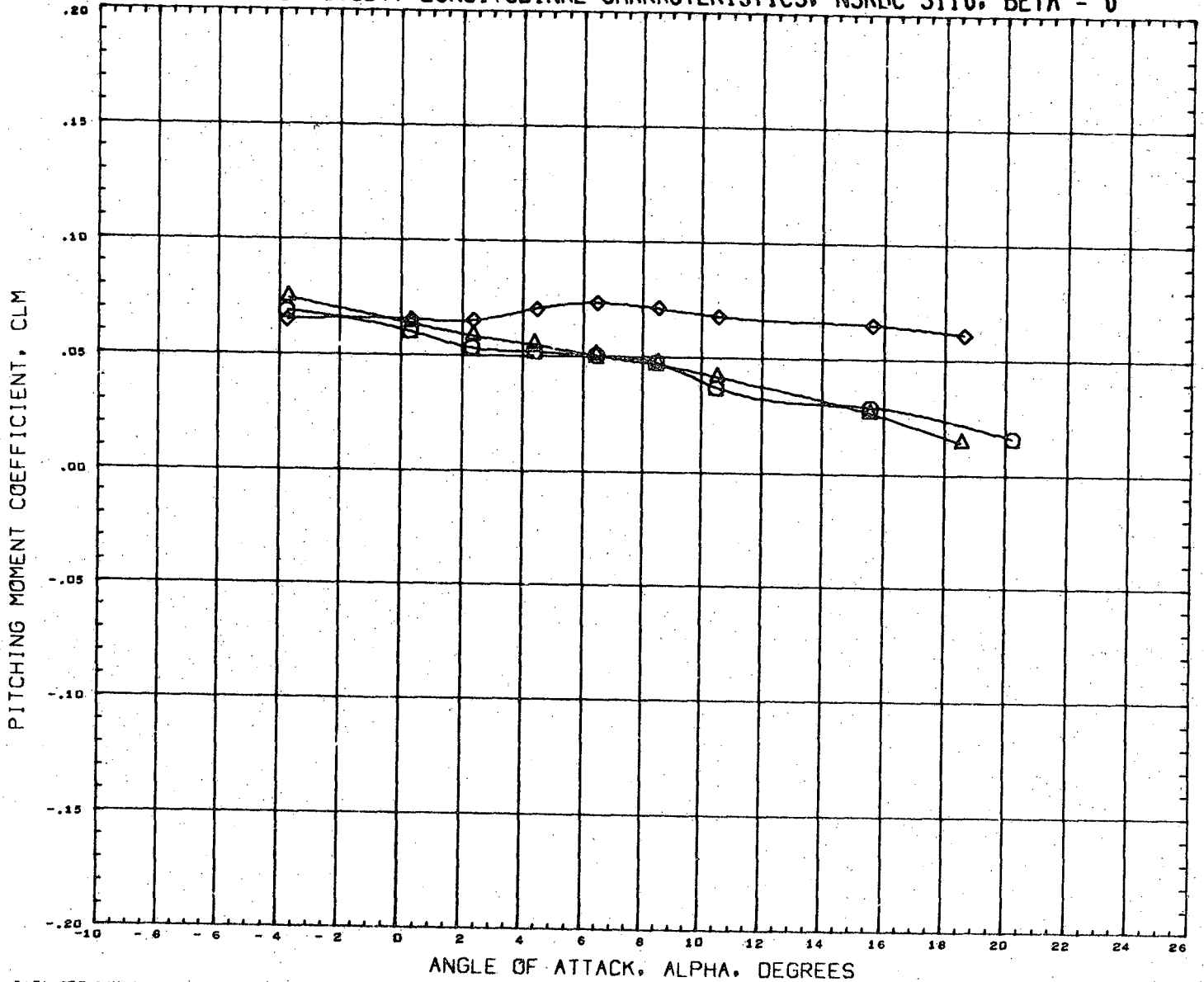
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2197)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2261)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

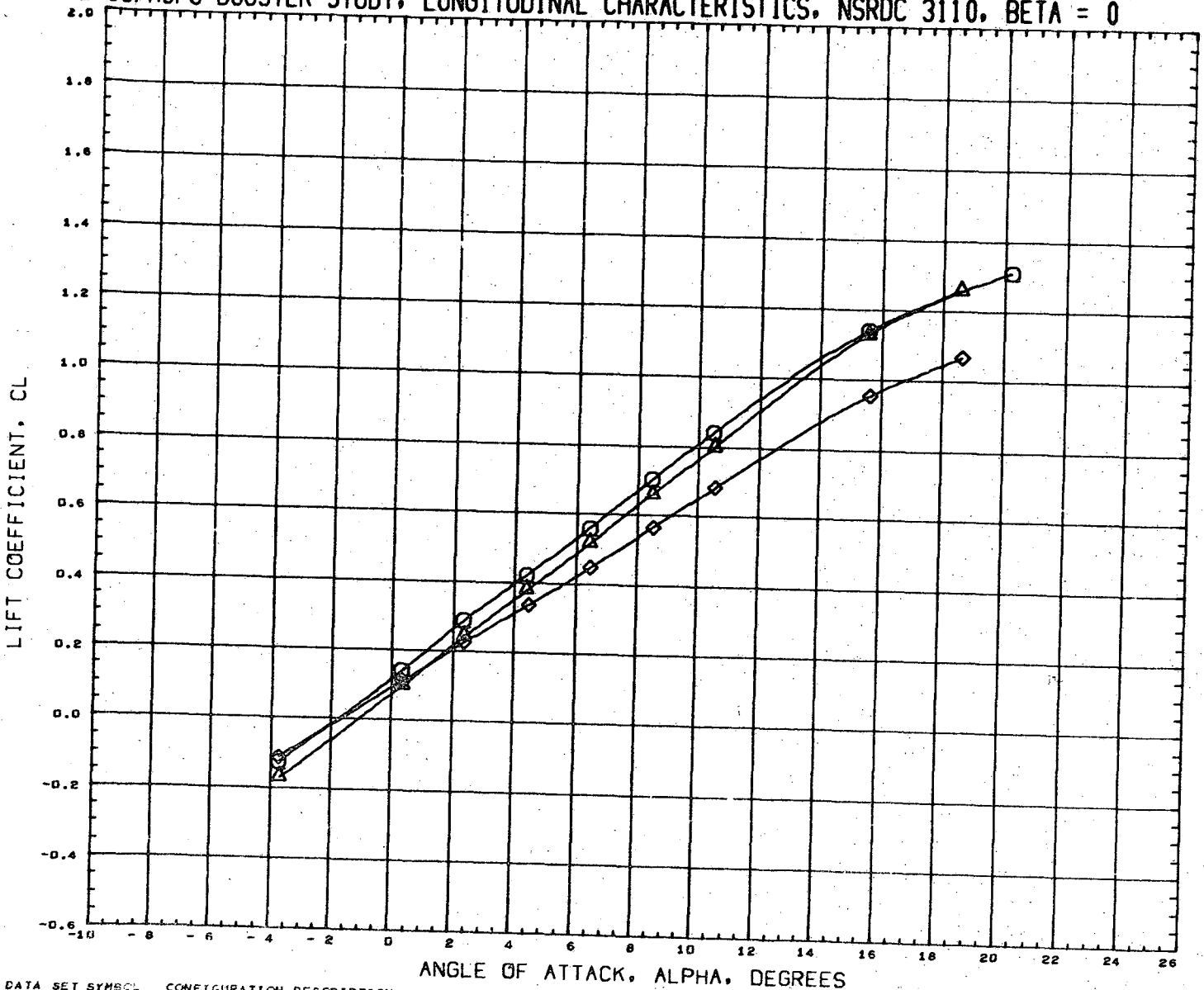
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2005)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2197)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2261)	NSRDC-3110,MSFC/LMSC BOOSTER P1C2F1W2D1	15.000	1.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



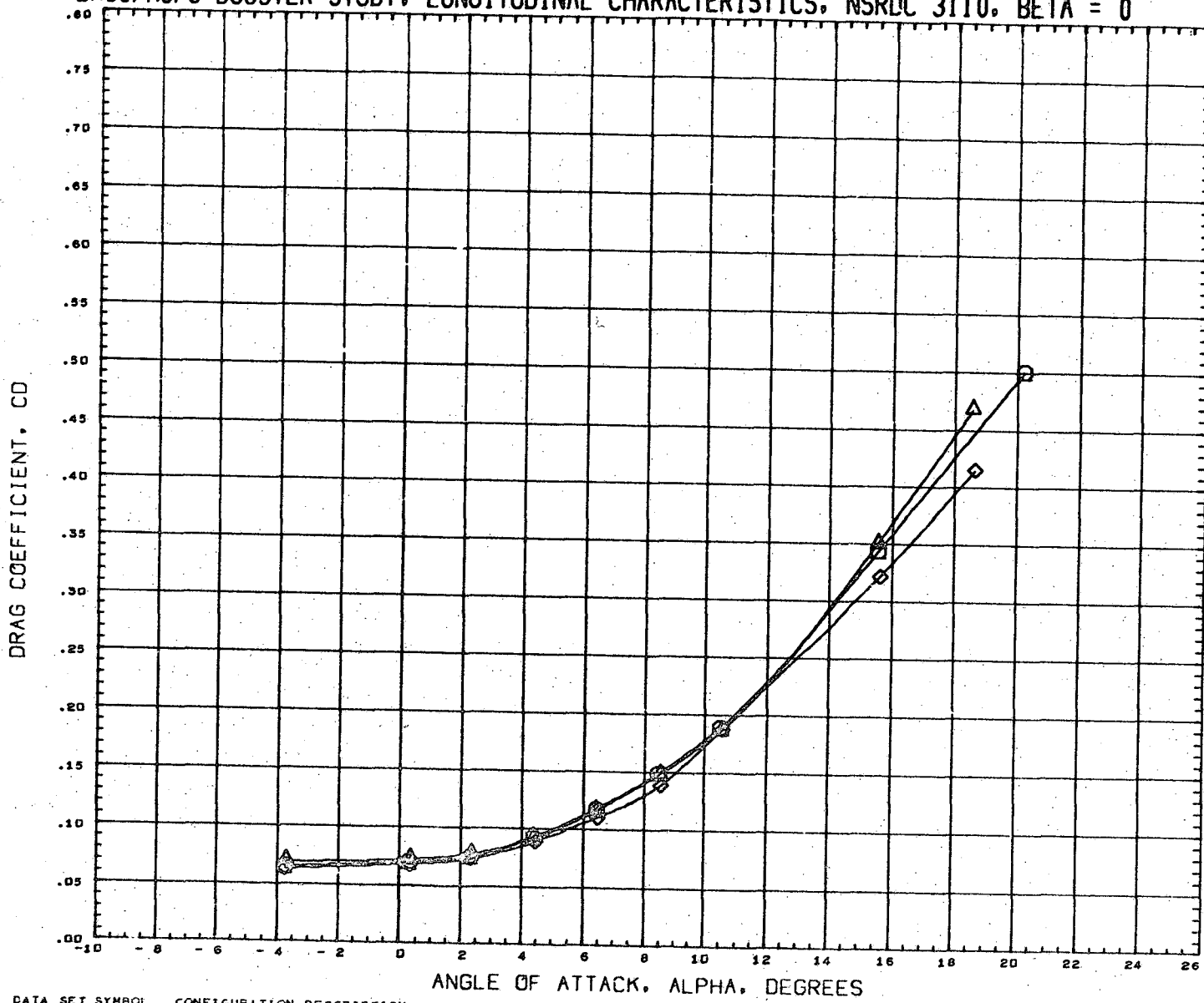
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2197)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2261)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.379

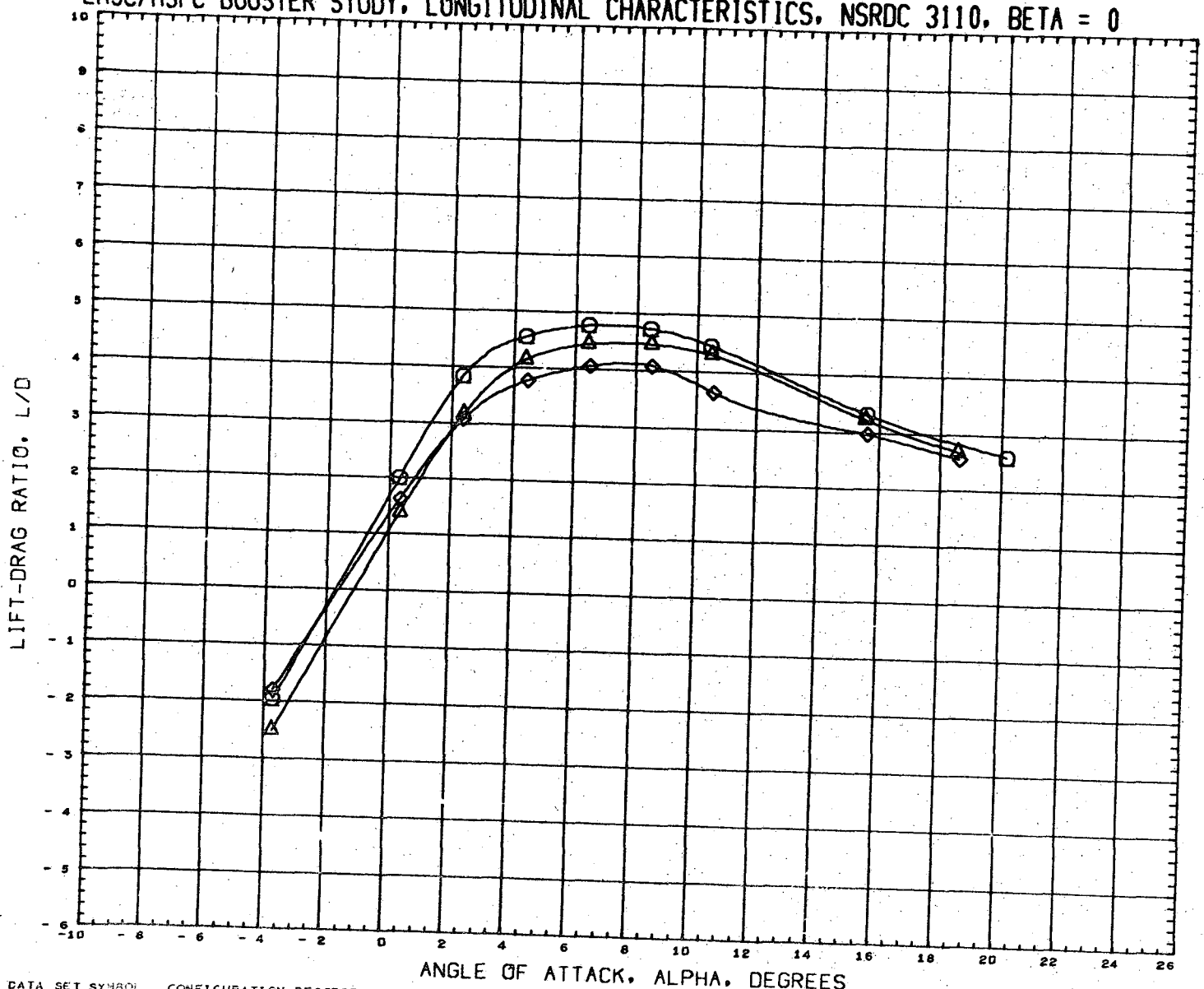
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2197)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2261)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

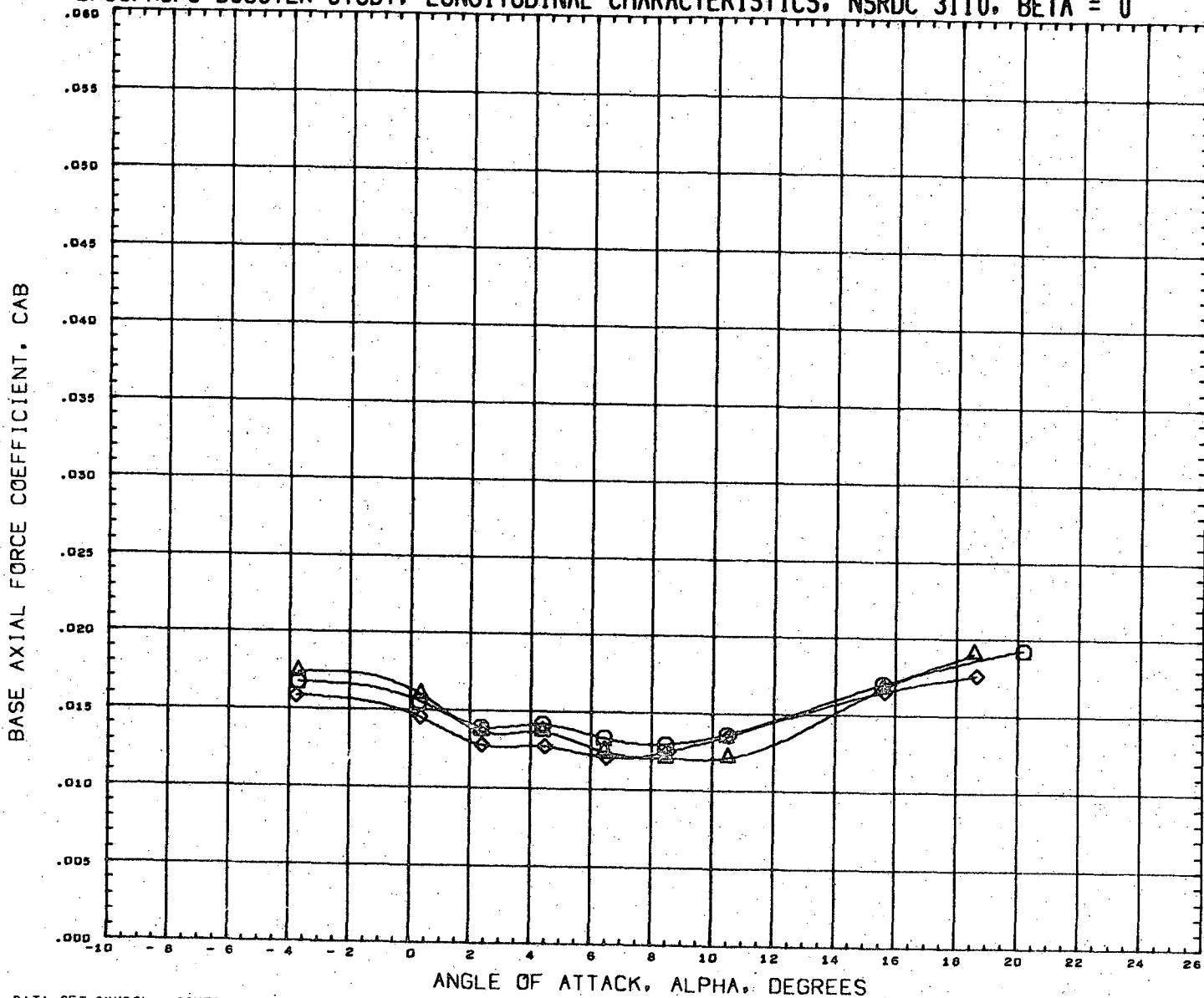
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2205)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2197)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2261)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

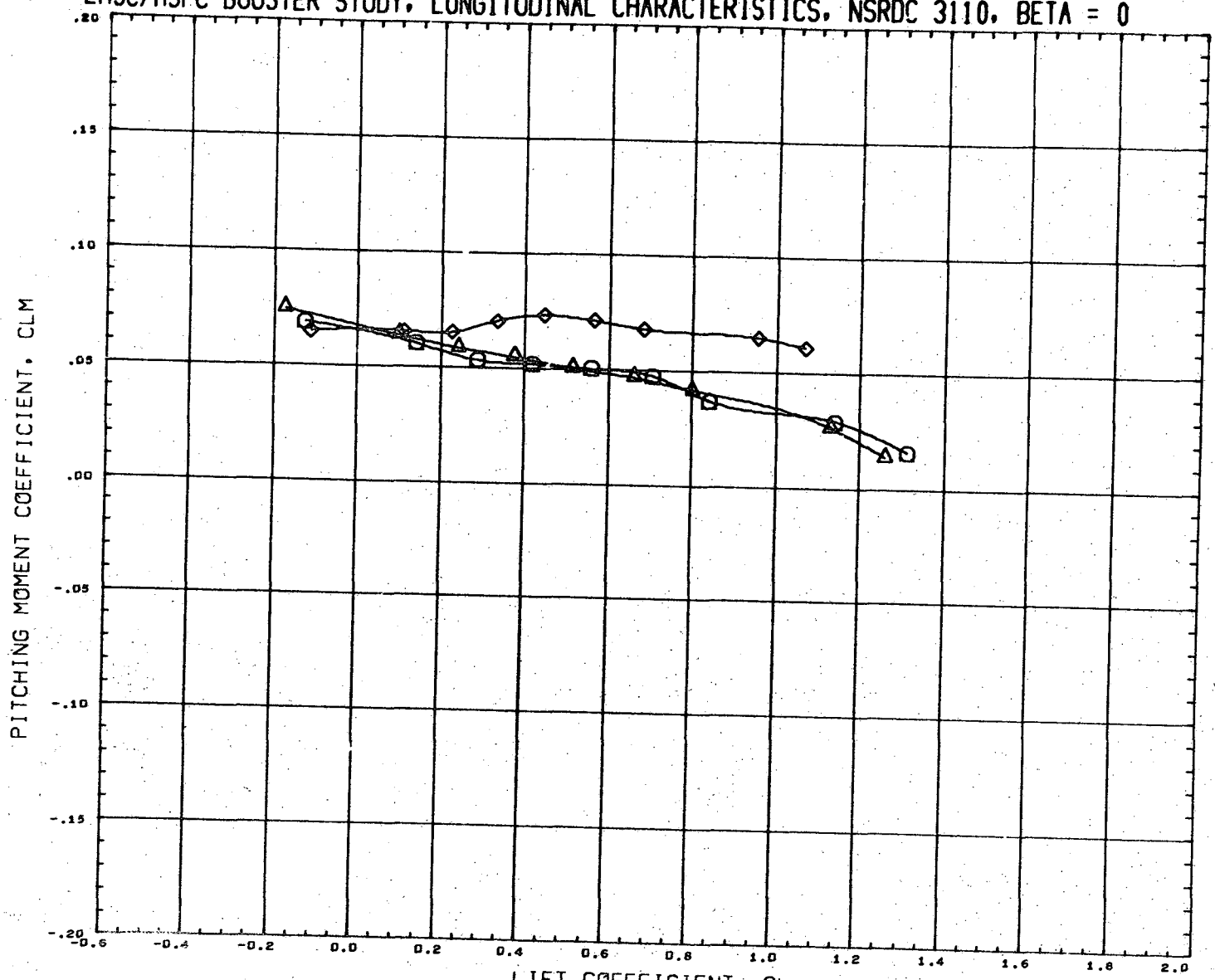
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2005)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2197)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2261)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.379

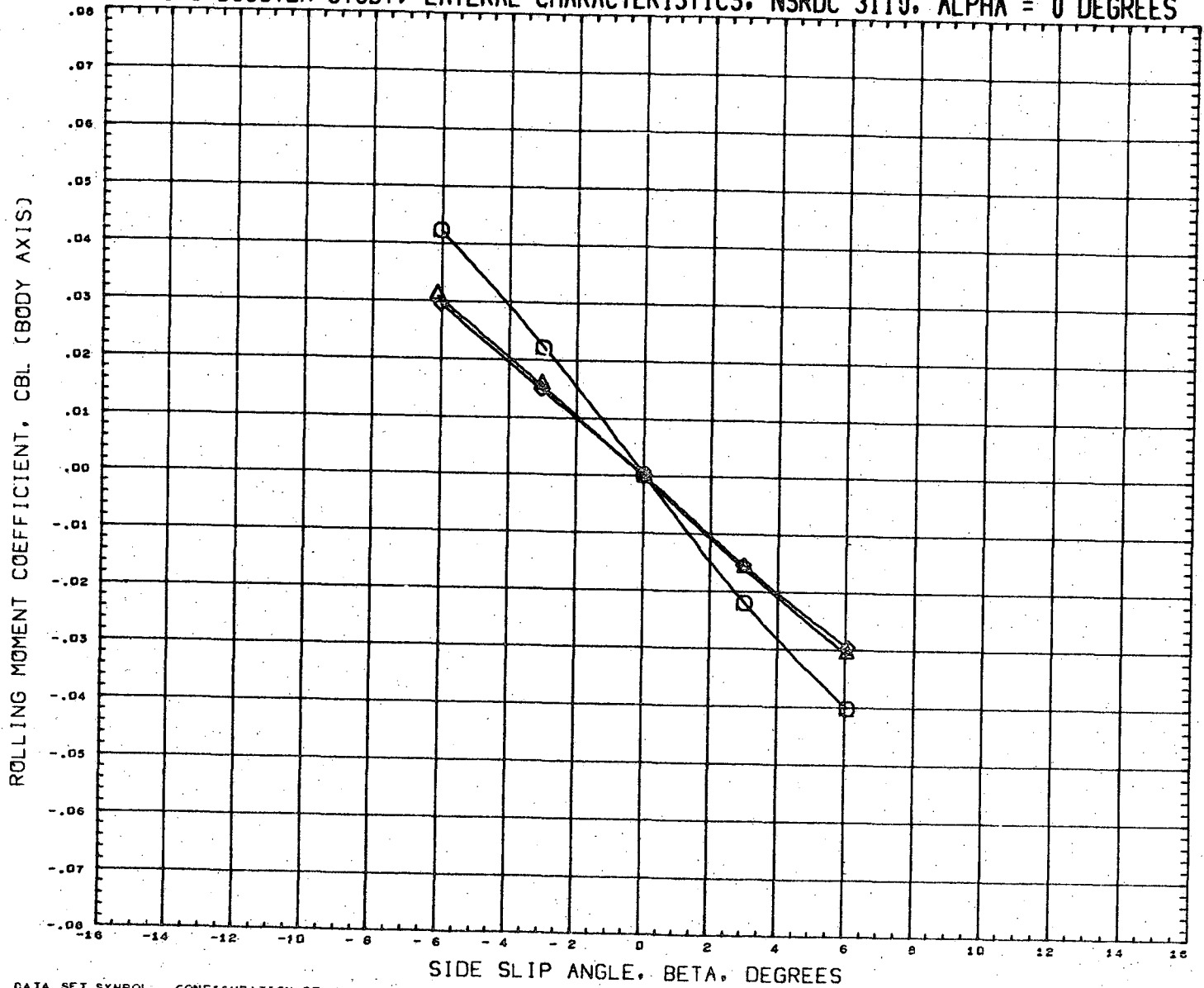
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN20D5)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2197)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2231)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

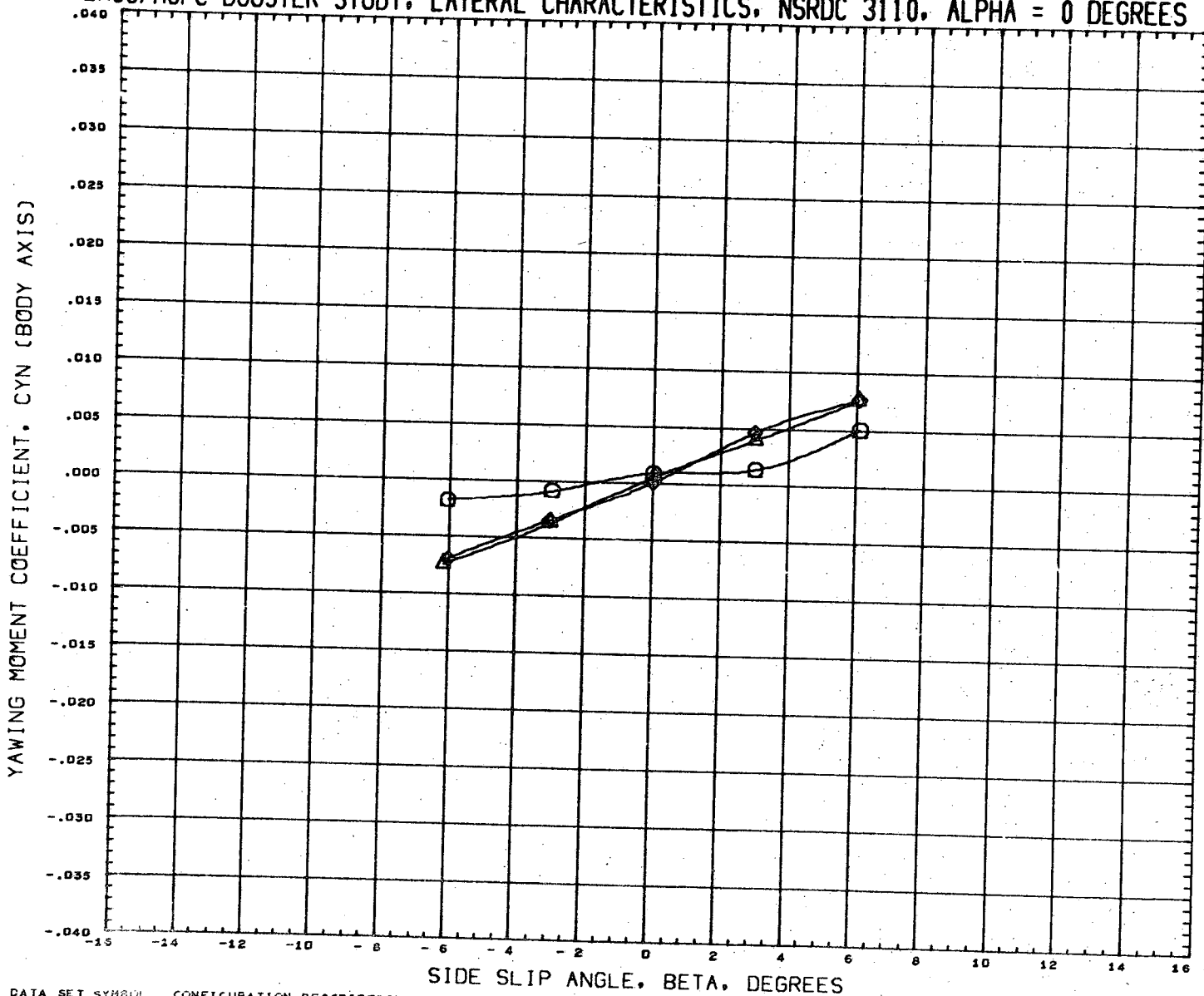
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2006)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2198)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2262)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT.

MACH 0.380

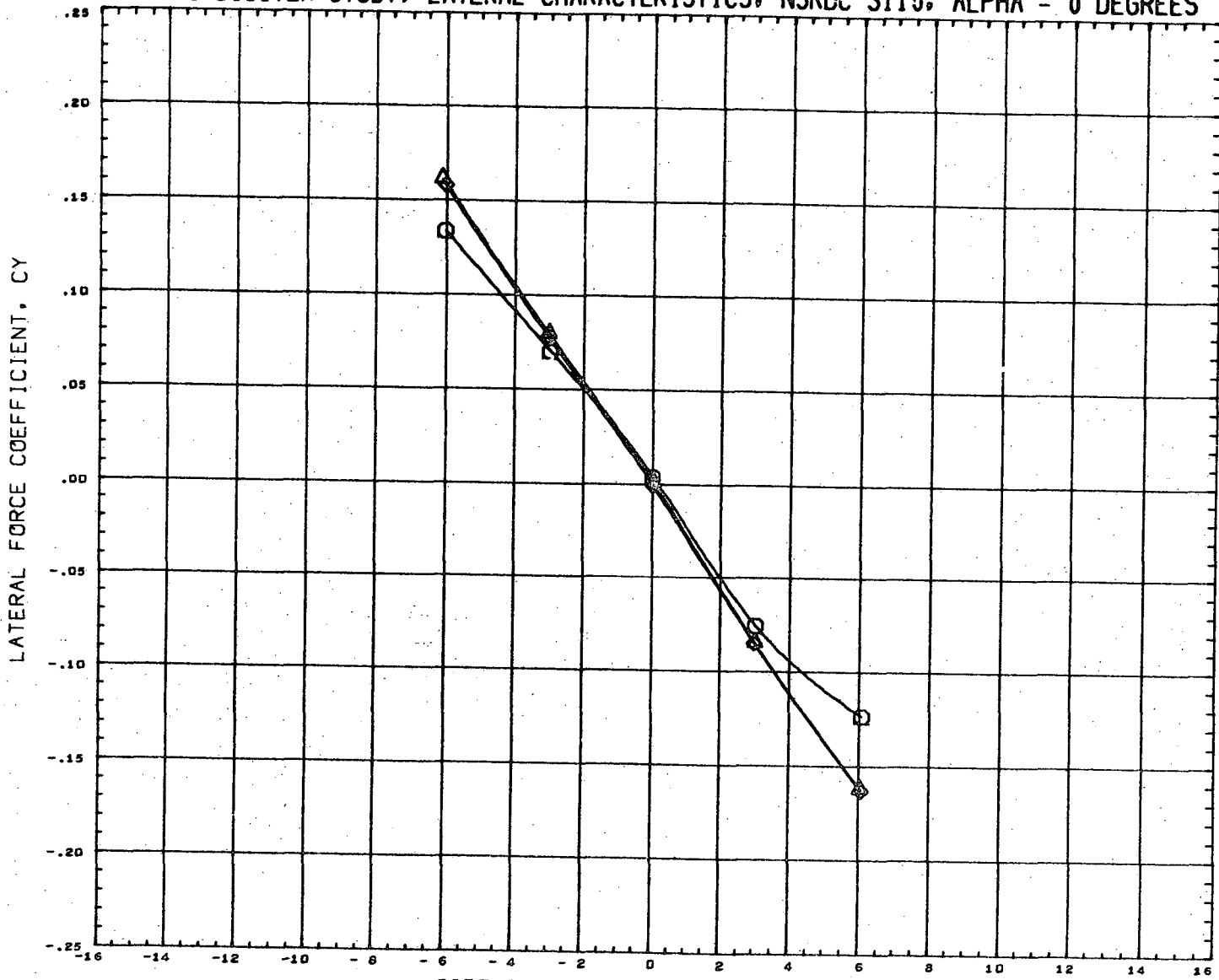
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2006)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2198)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2262)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

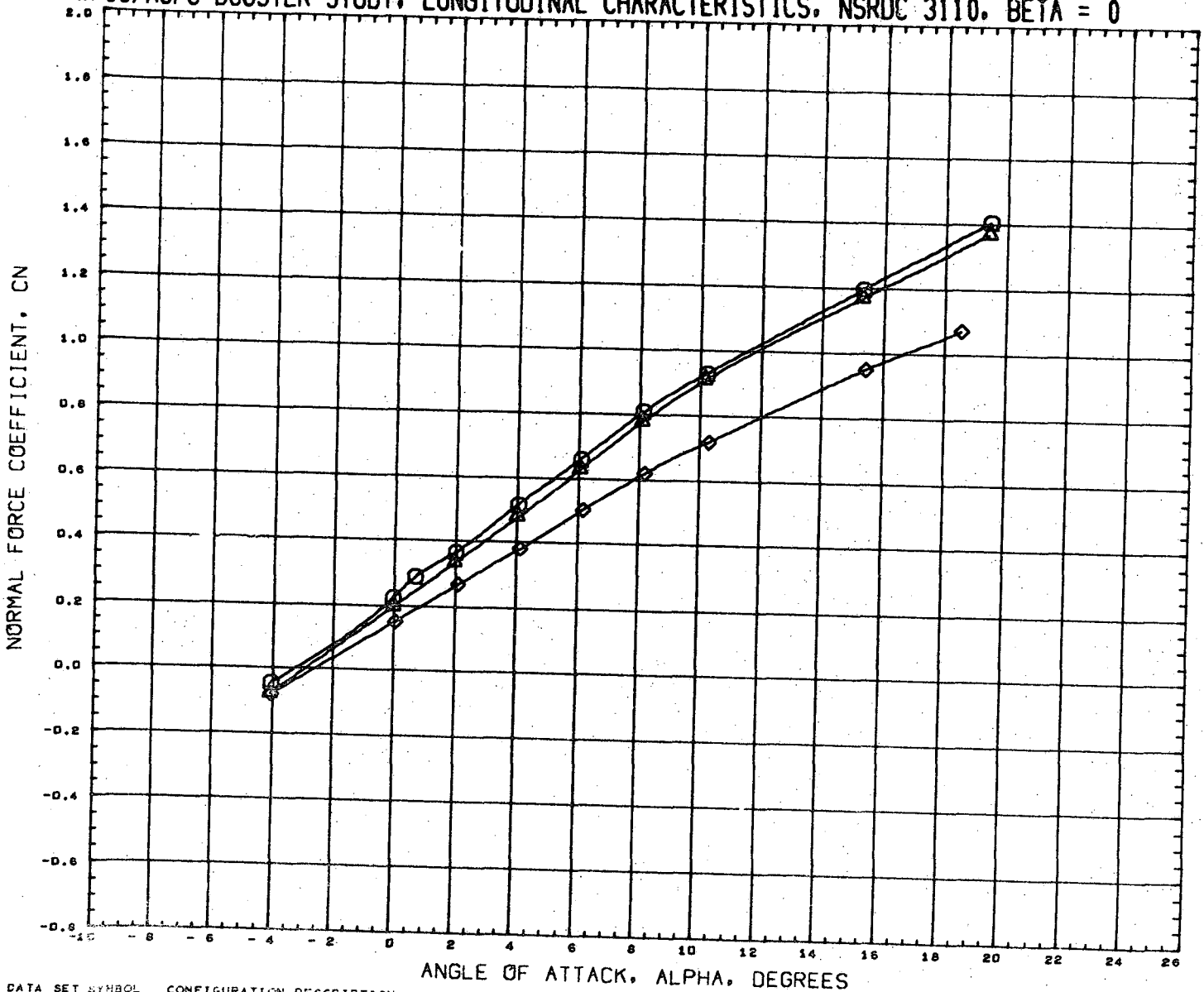
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2006)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2198)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
(RN2262)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2033) ○
 (RN2225) □
 (RN2293) ◇

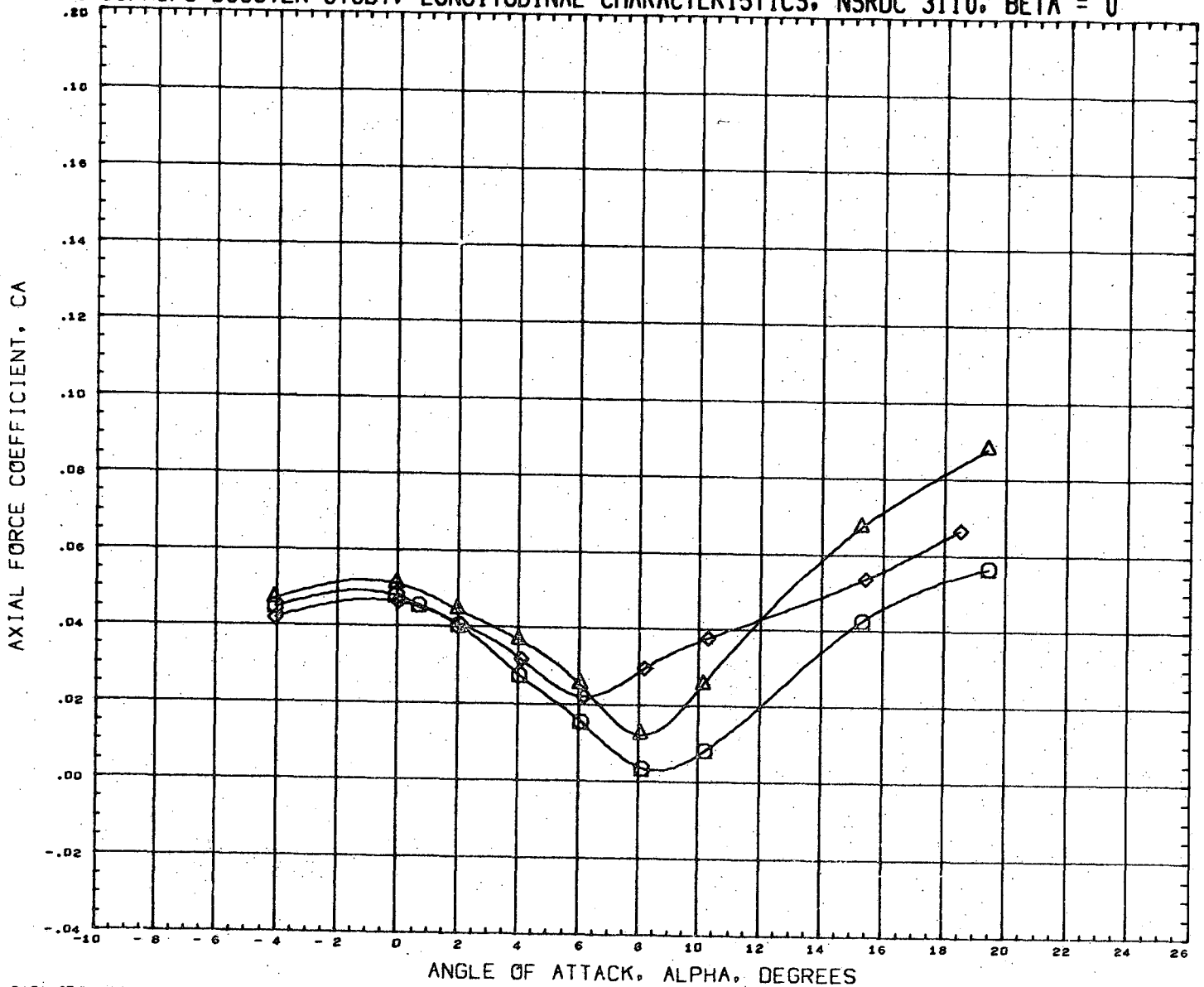
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCLDC	CNDPOS	INCLDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.383

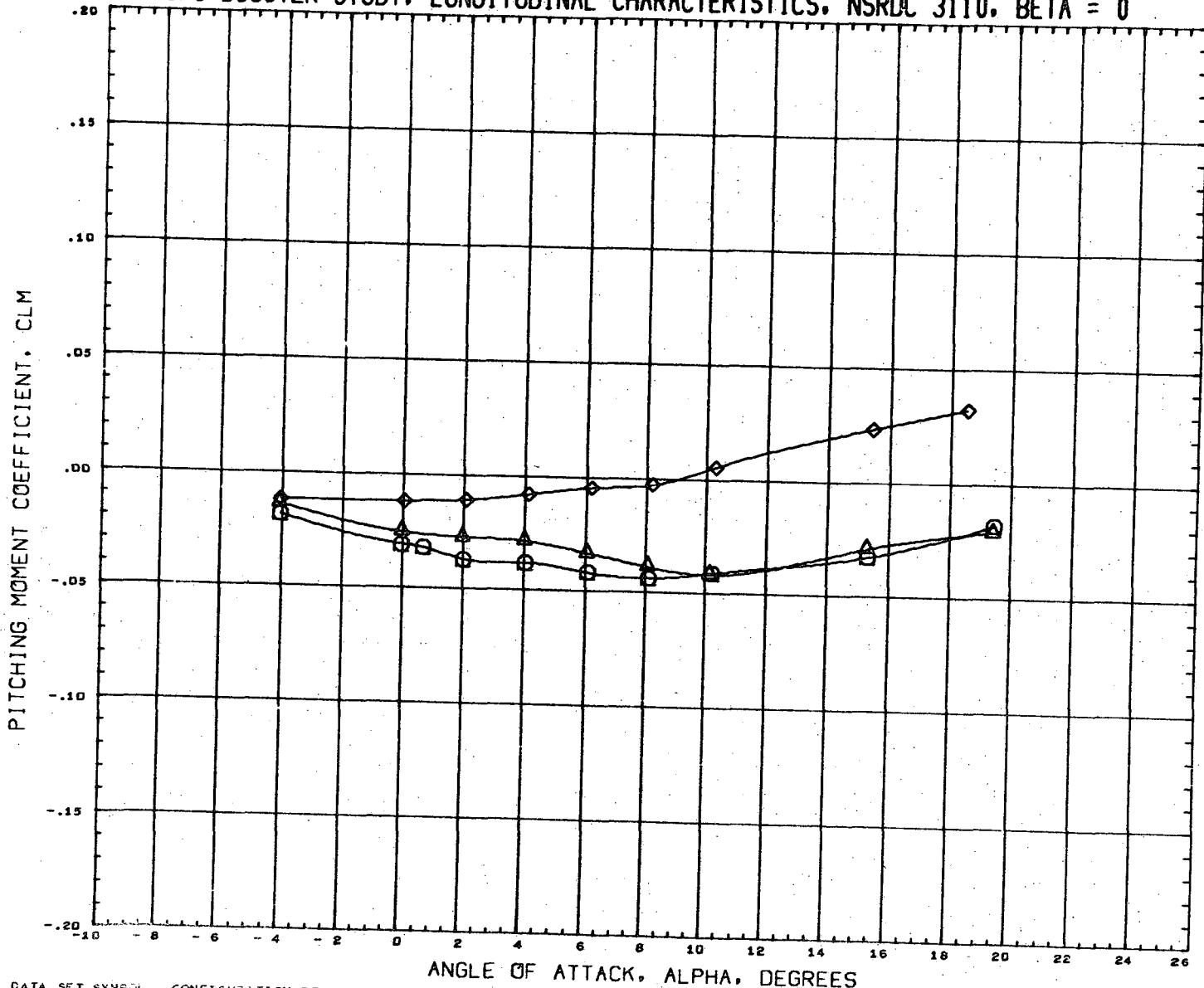
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2033)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2225)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2265)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.383

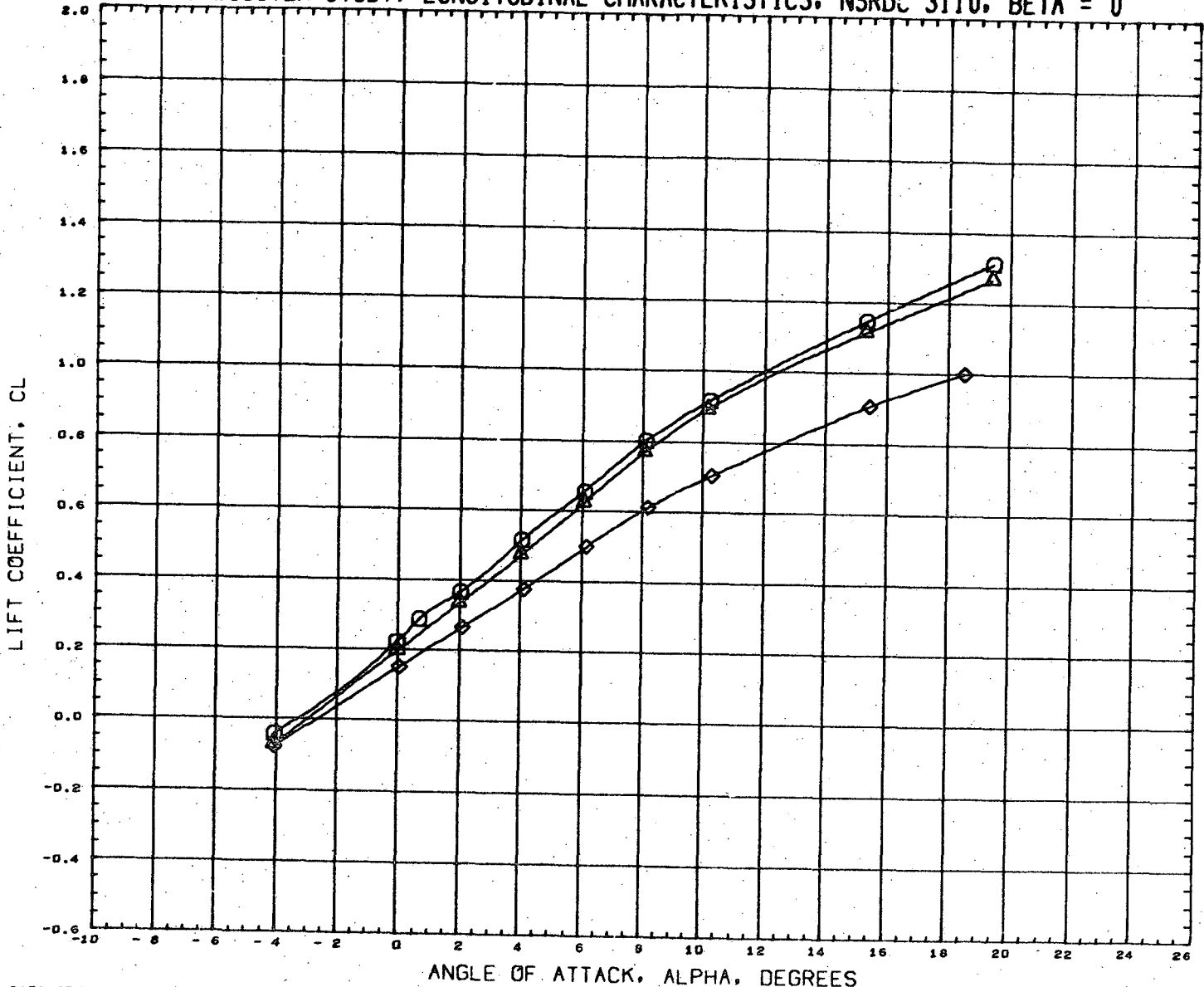
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2033)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2225)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2285)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

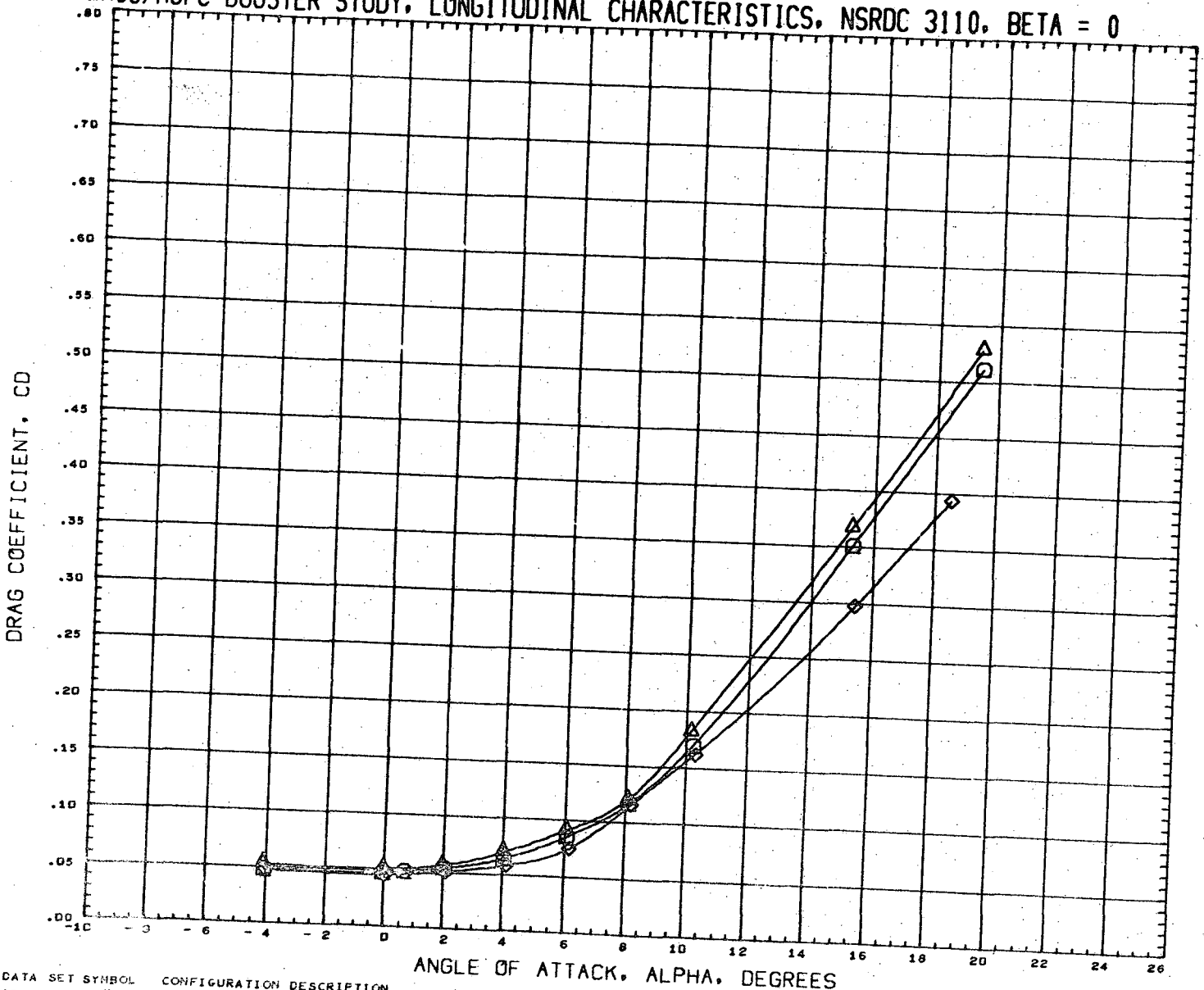
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2033)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	1.000	SREF	1.3550 SQ. FT.
(RN2225)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	LREF	41.4360 INCHES
(RN2205)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2033)
 (RN2225)
 (RN2285)

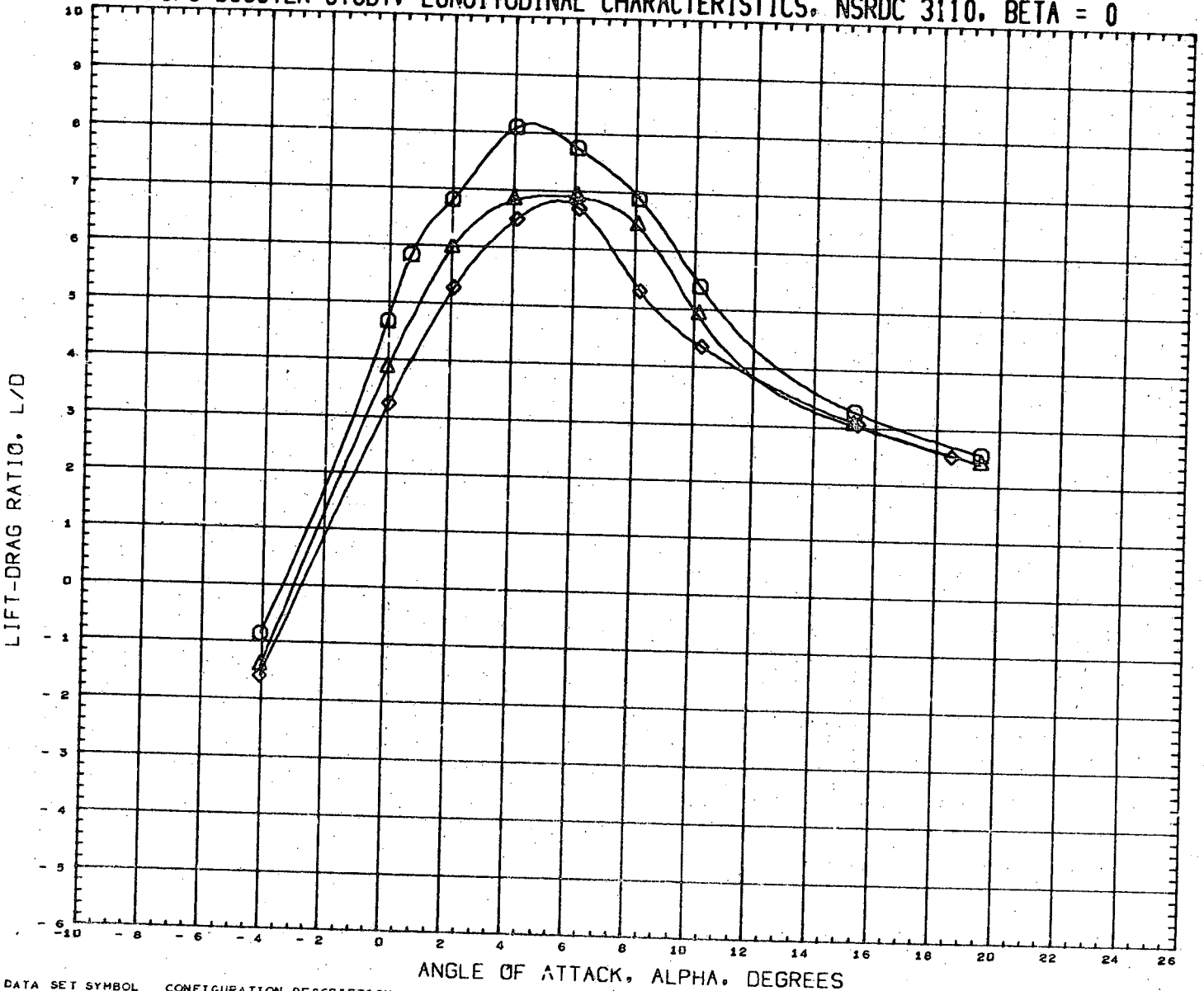
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDFOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.363

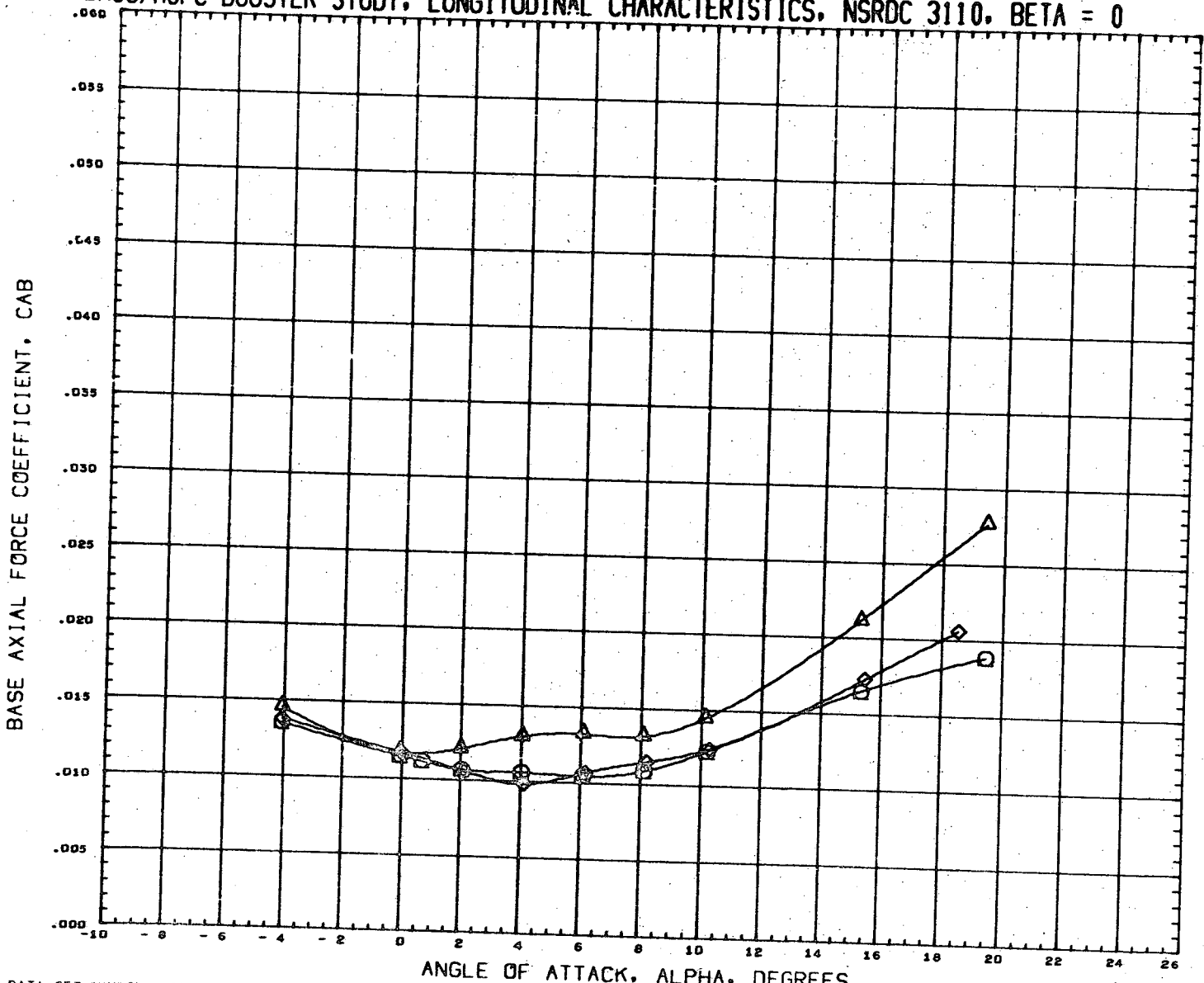
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNCPOS	REFERENCE INFORMATION	
(RN2033)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2225)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	LREF	41.4360 INCHES
(RN2285)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.383

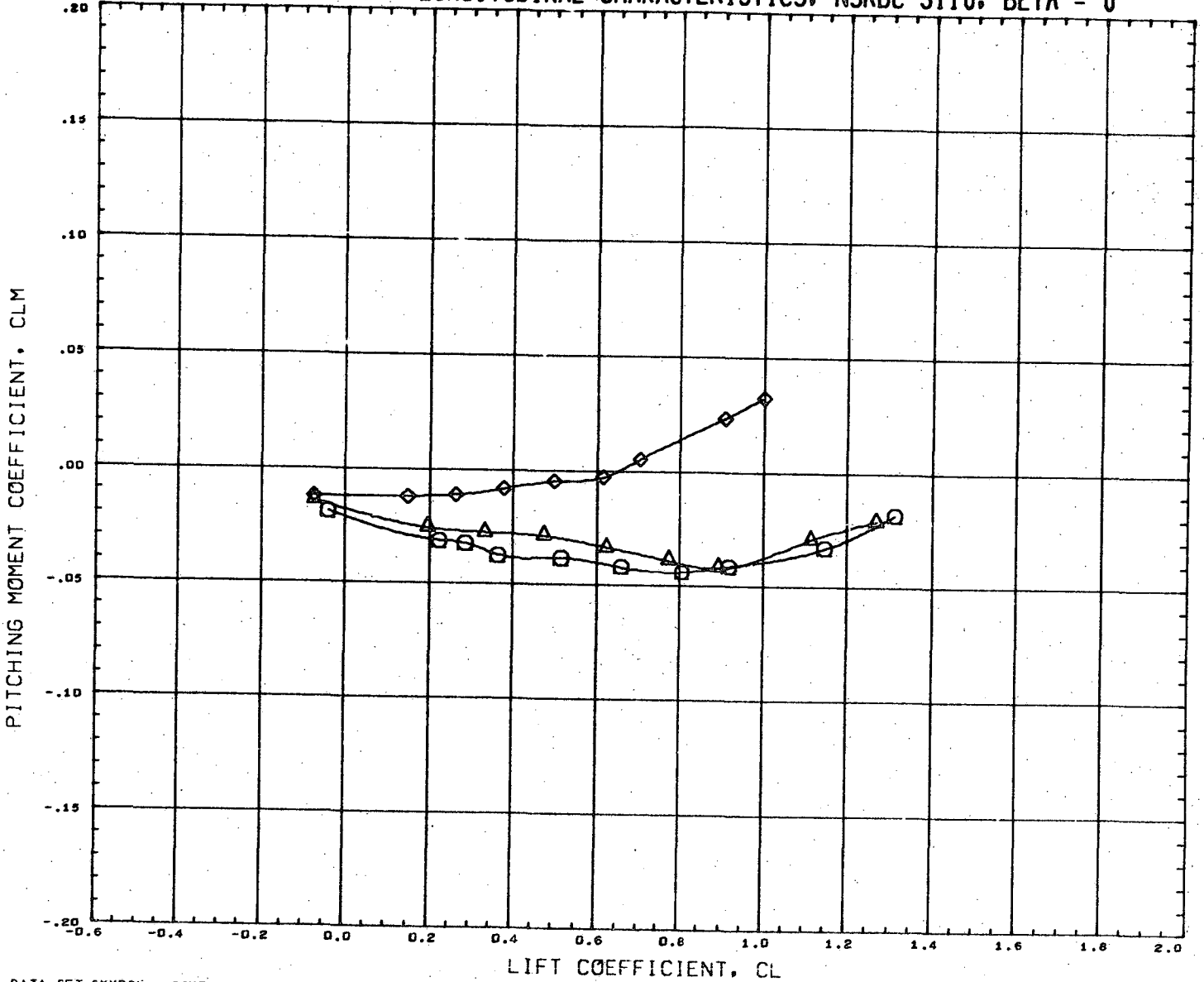
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2D33)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2225)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2285)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

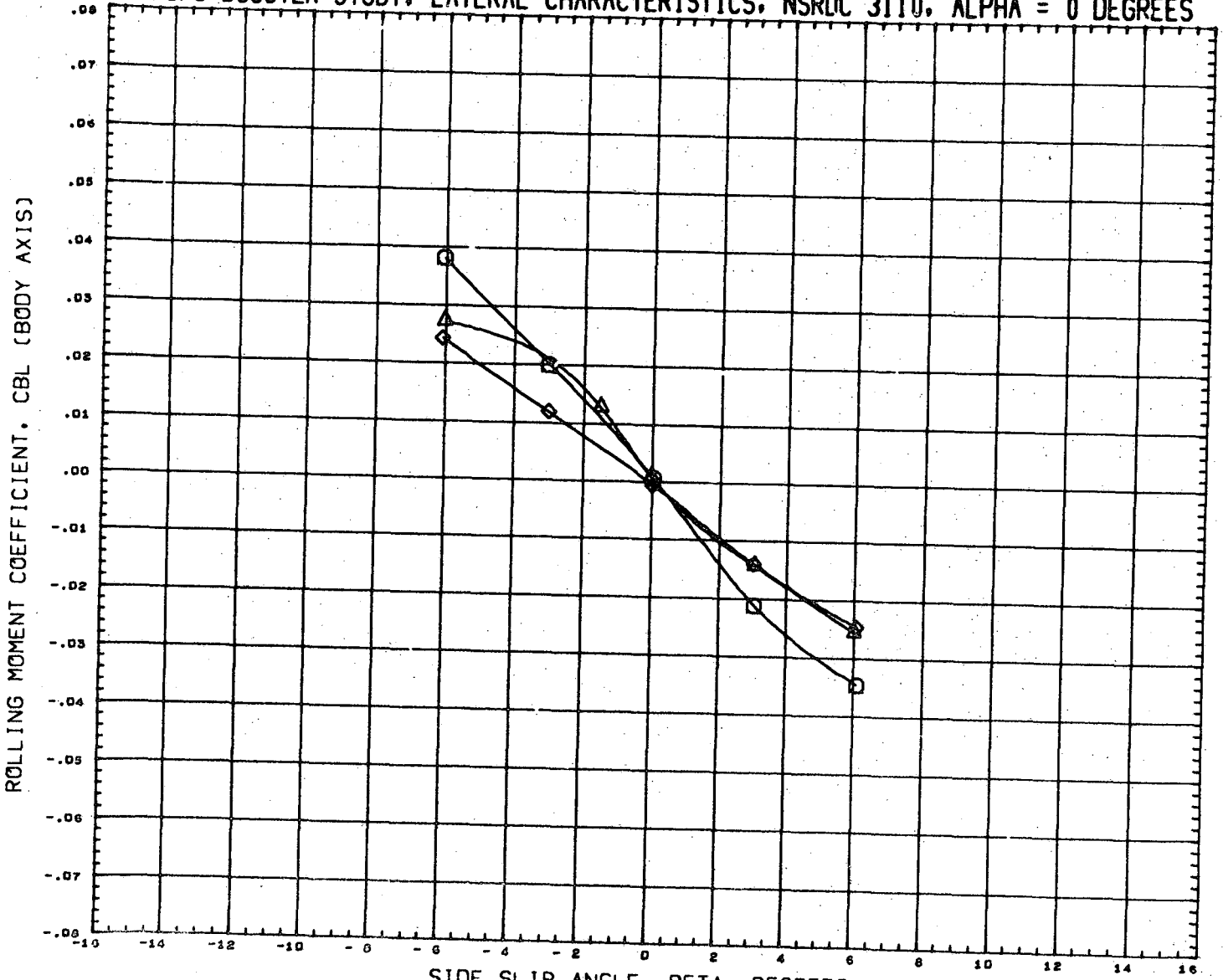
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2033)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2225)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2285)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
 (RN2034) 
 (RN2226) 
 (RN2289) 

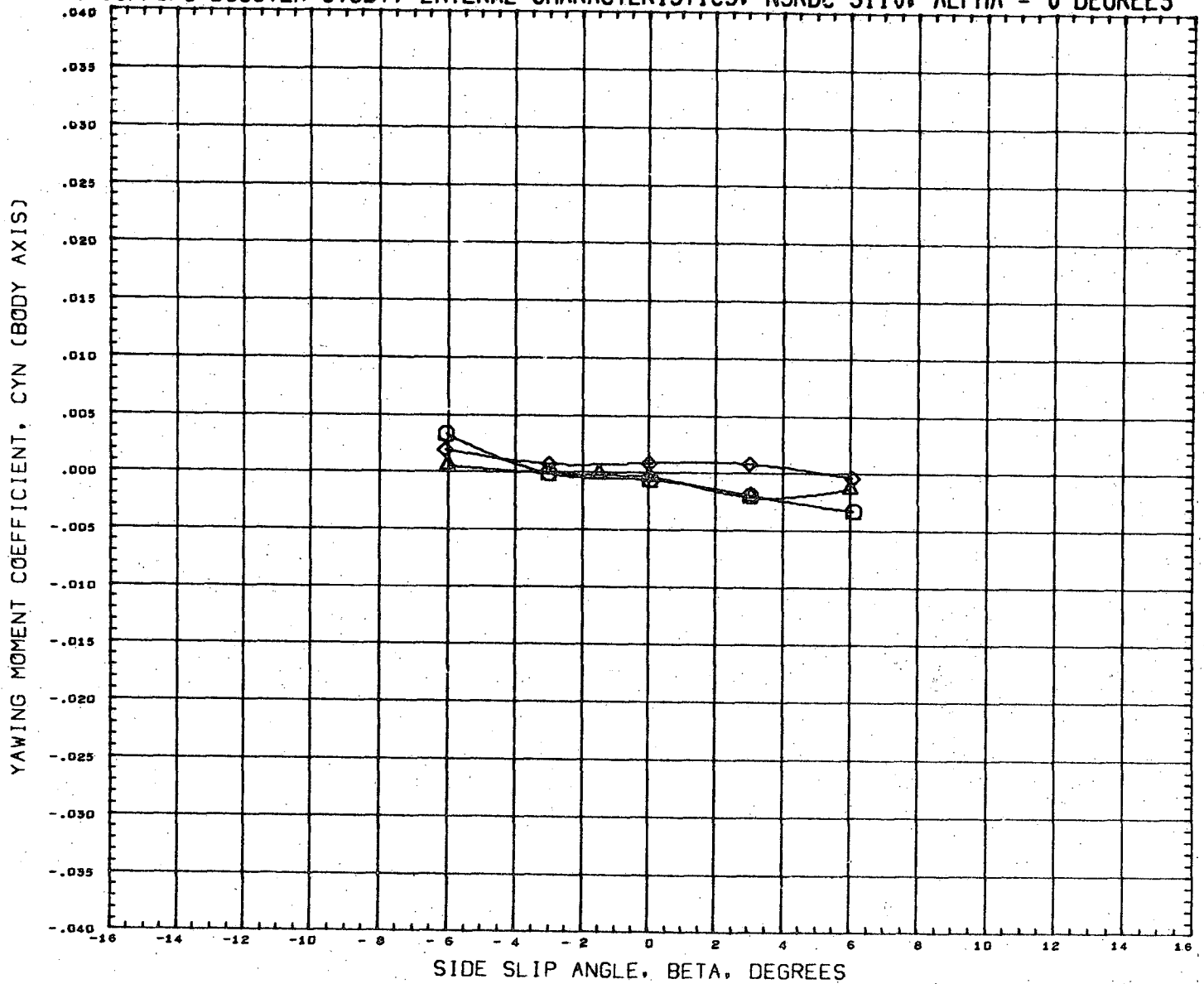
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.381

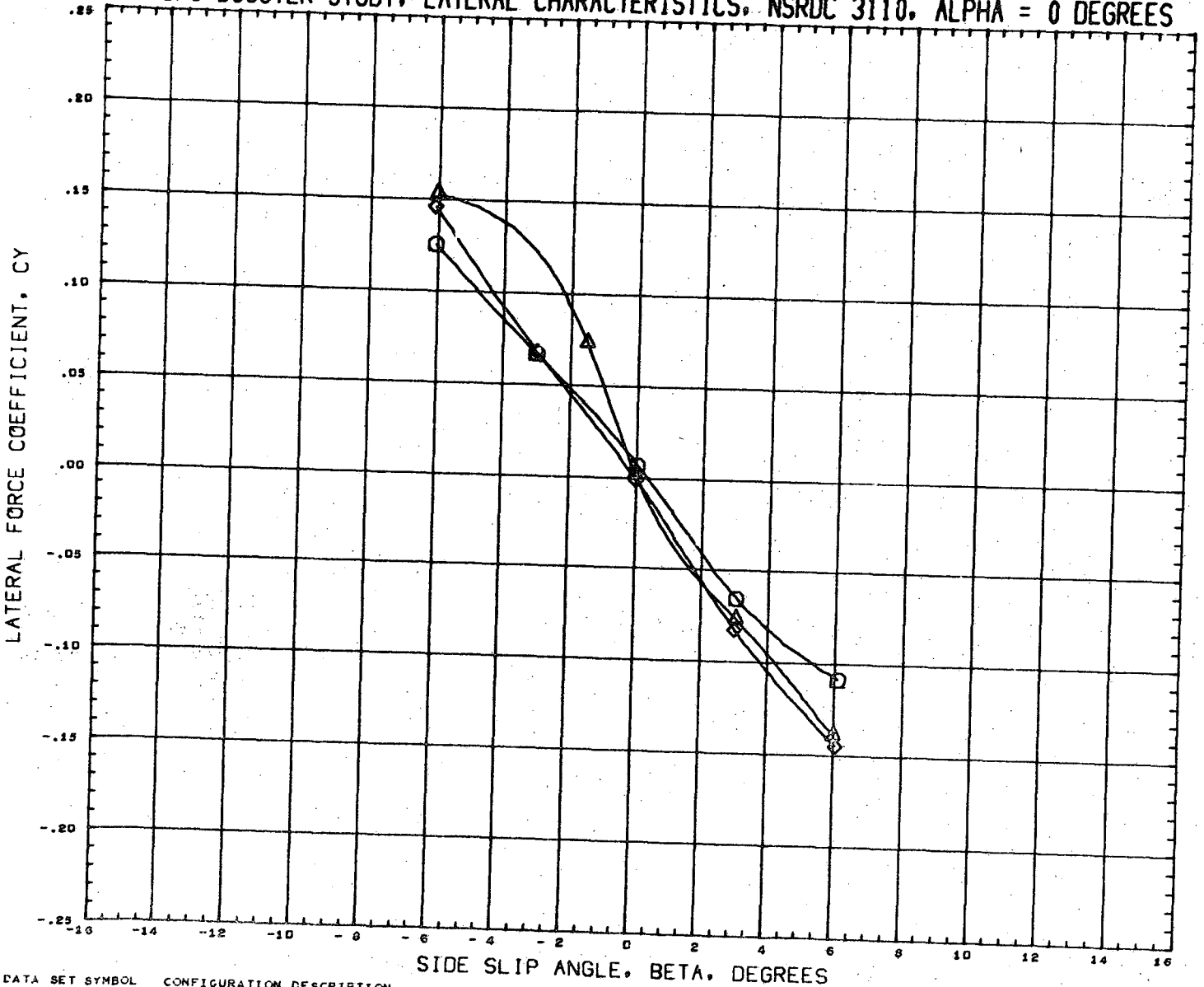
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2034)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2226)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2286)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.361

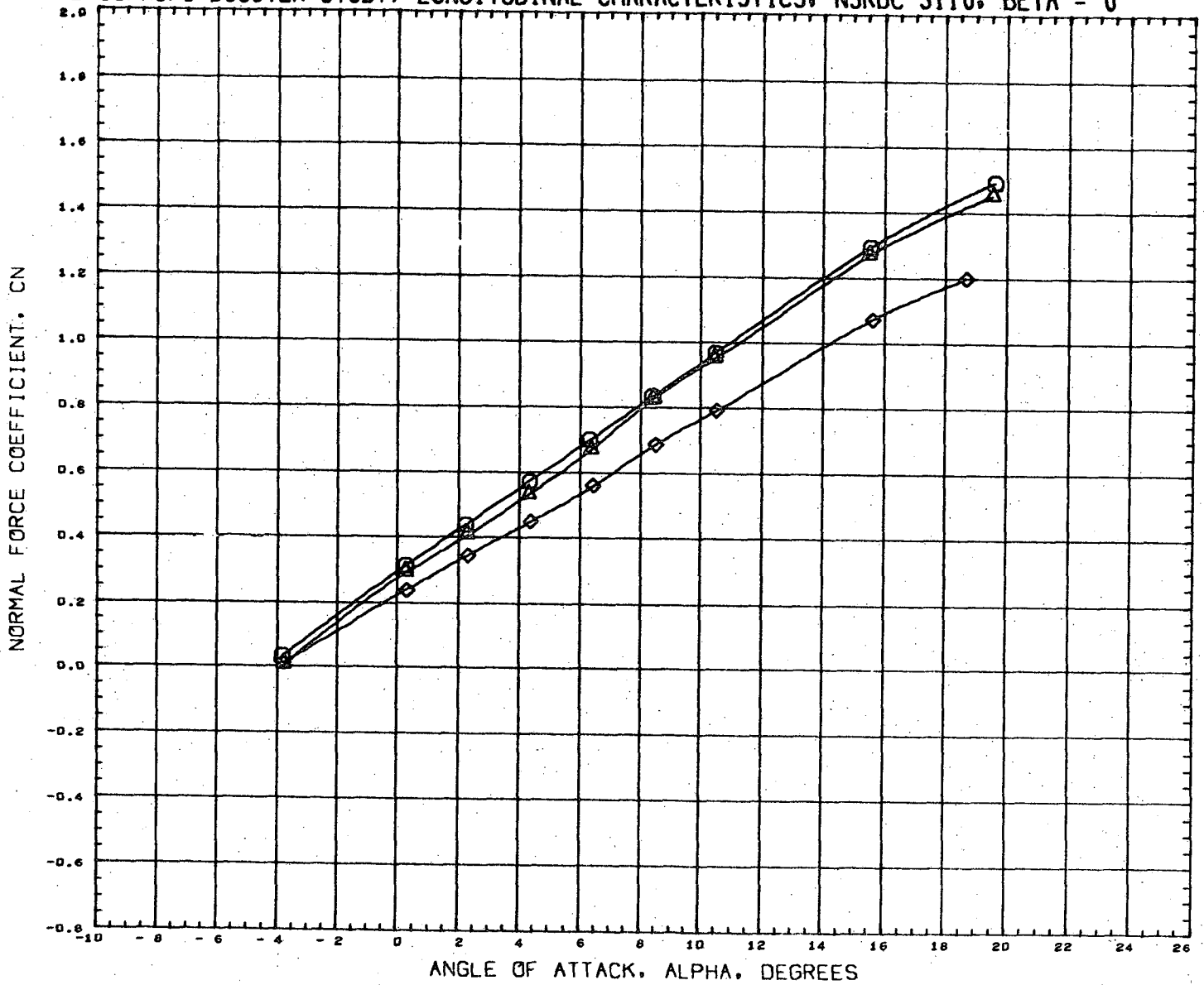
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS	REFERENCE INFORMATION
(RN2034)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2326)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2236)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

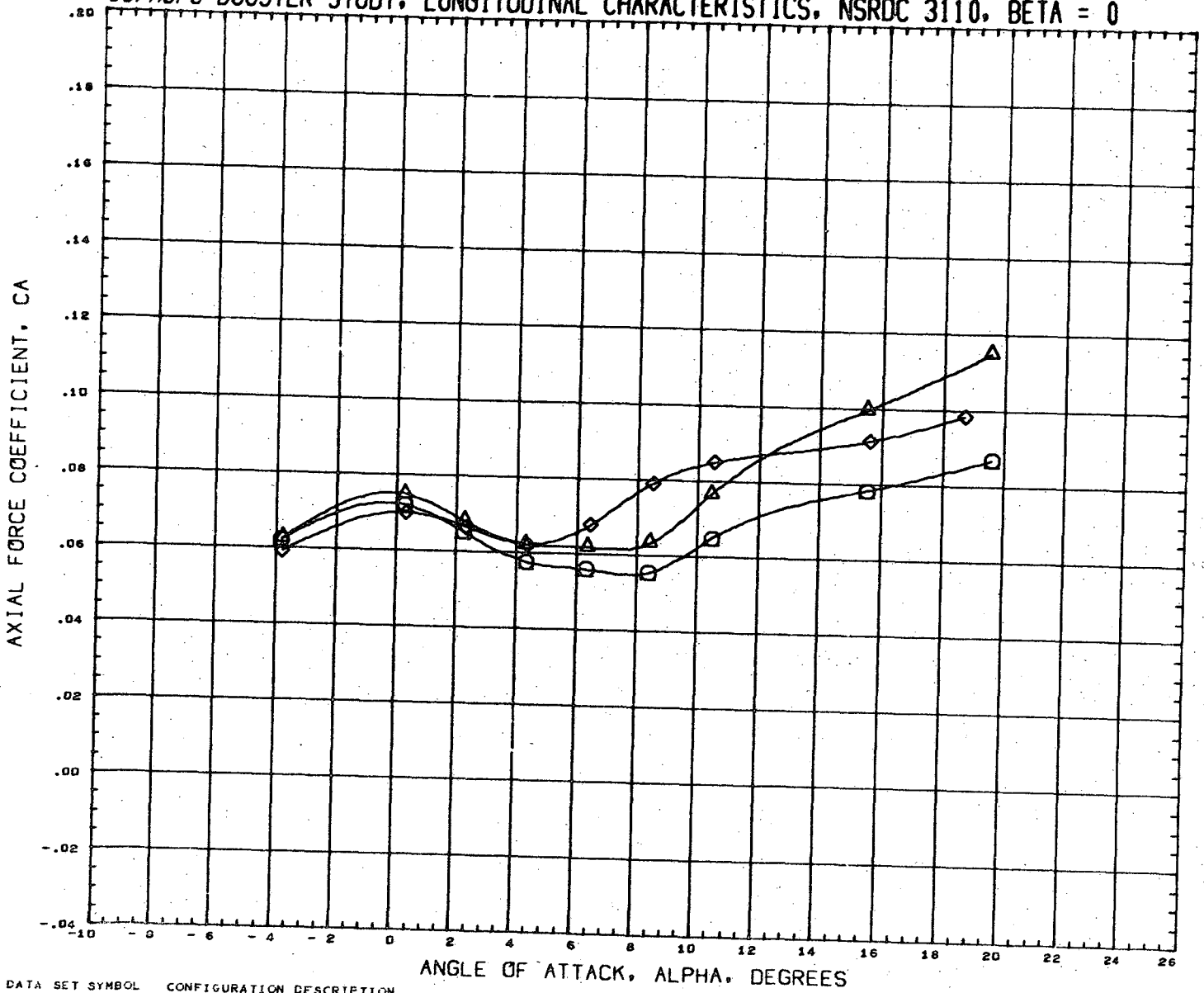


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2037)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2229)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2289)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

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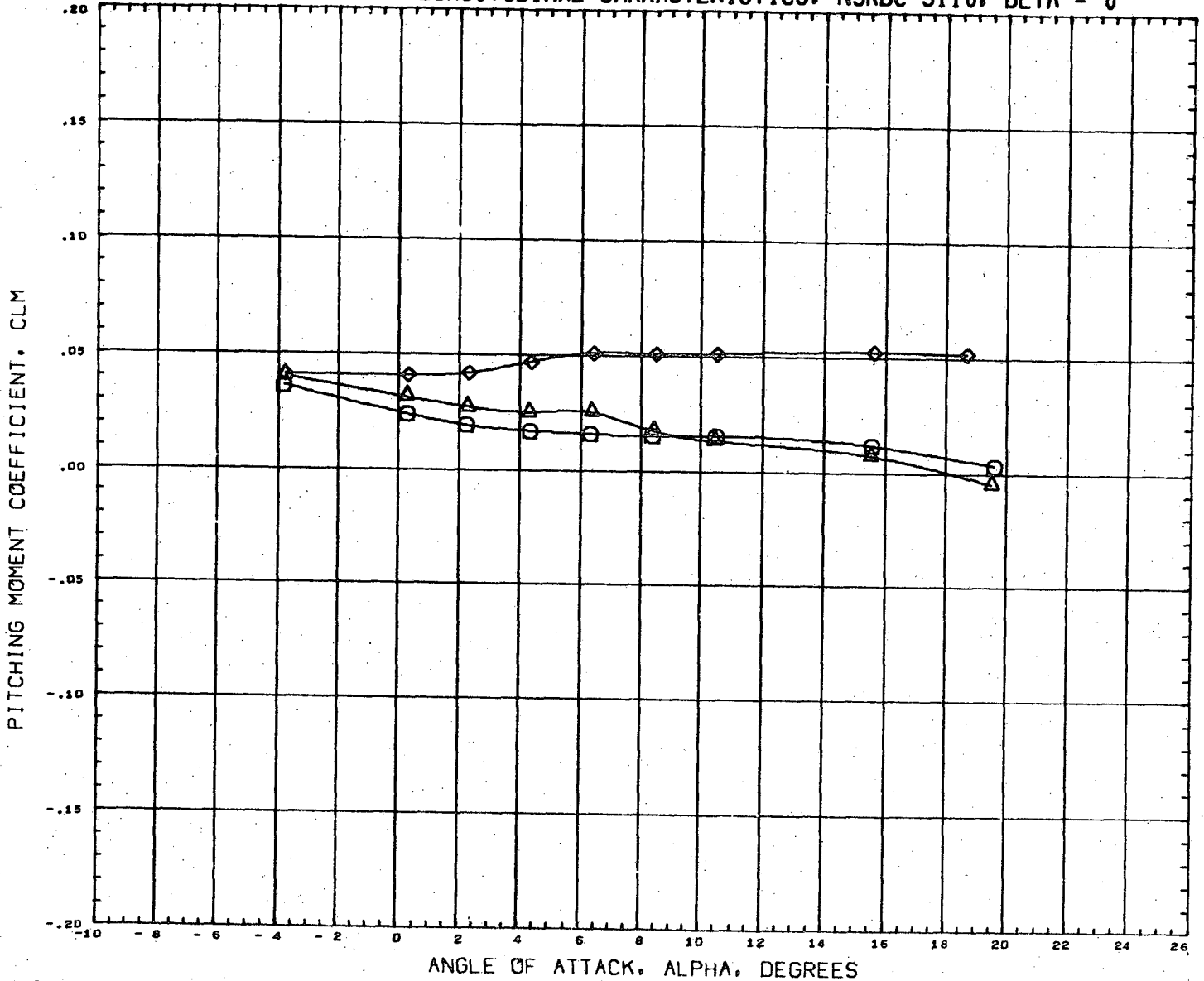
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2237)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2229)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2289)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

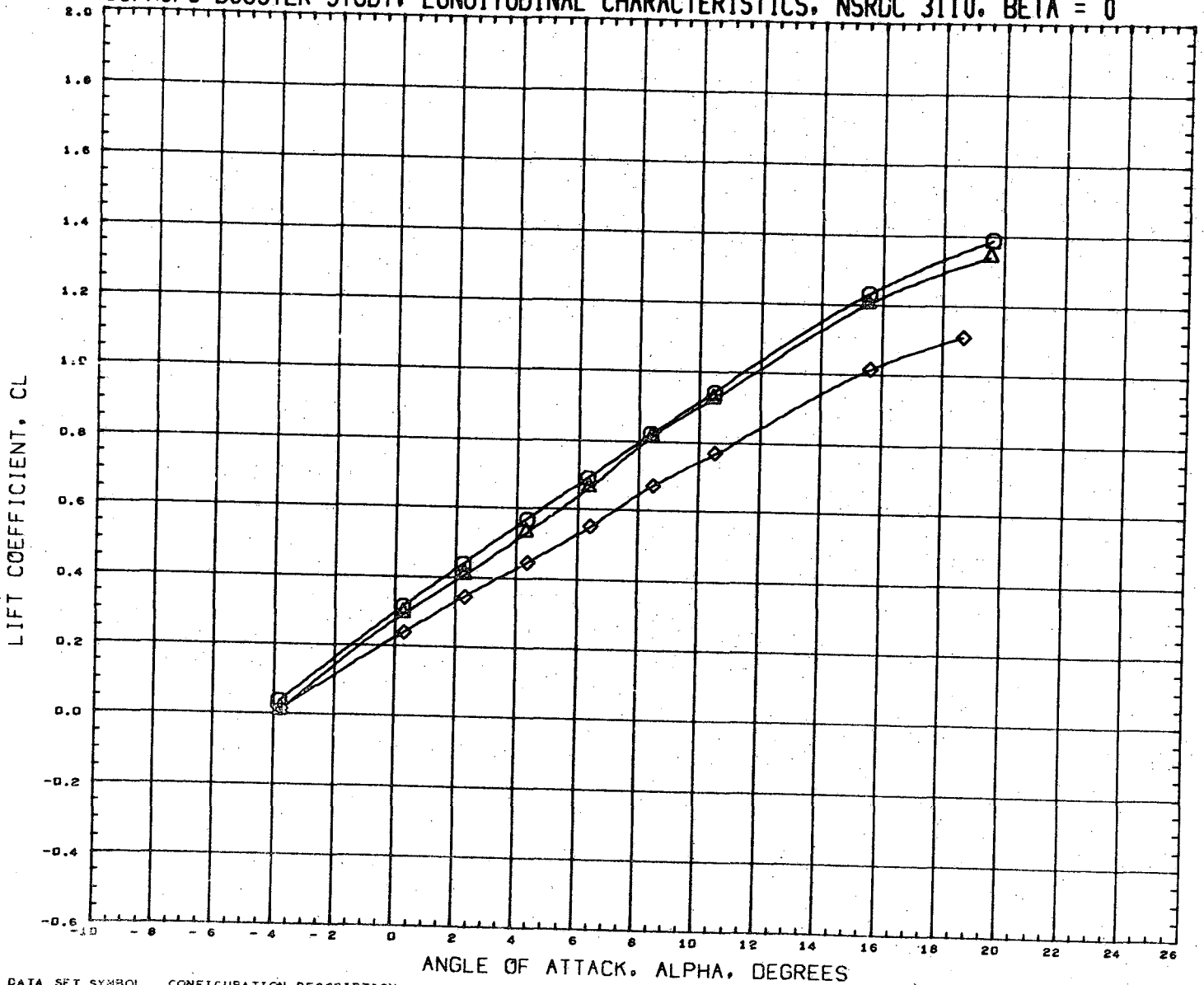
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2037)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2229)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2289)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

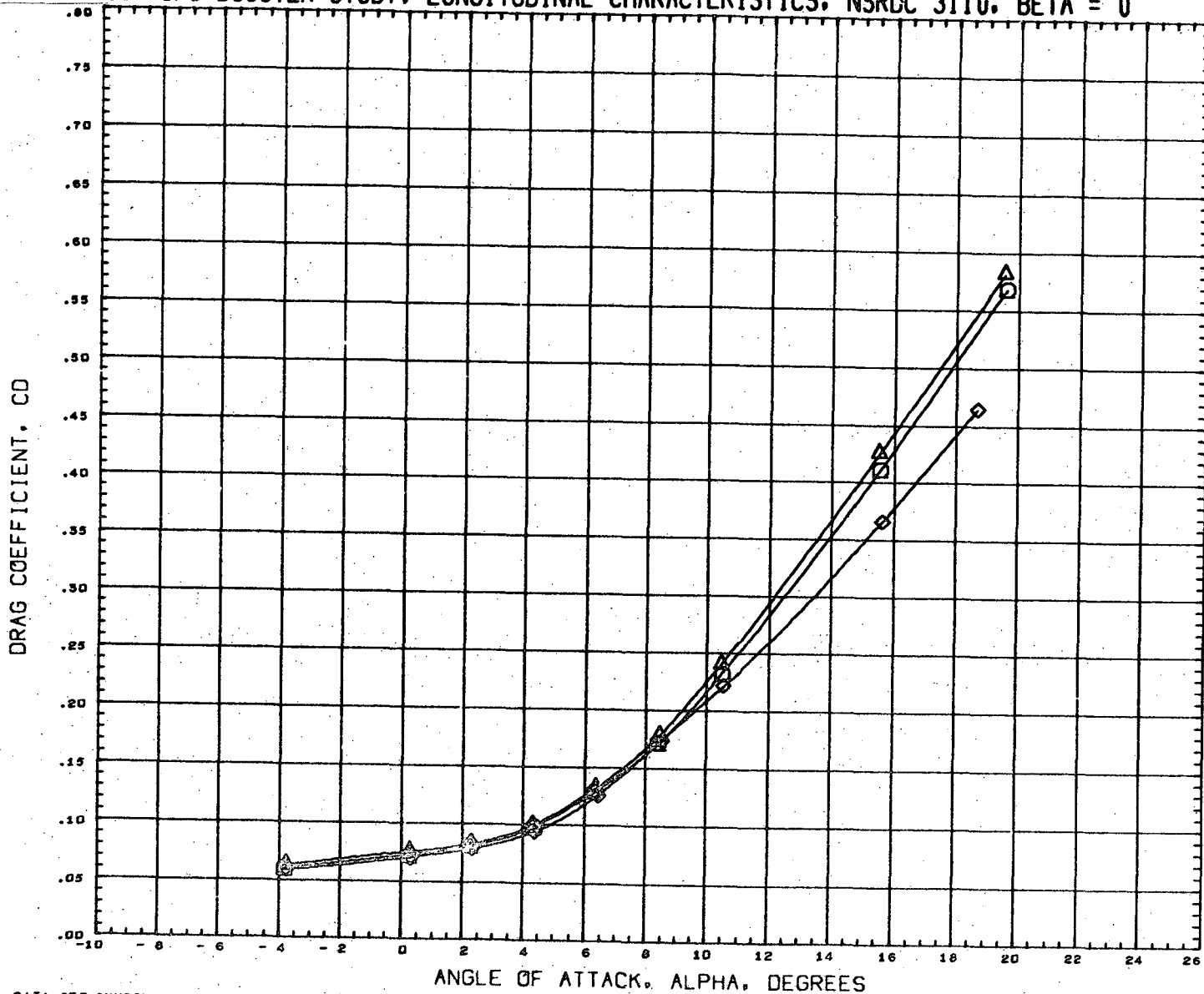
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2037)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2229)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2289)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

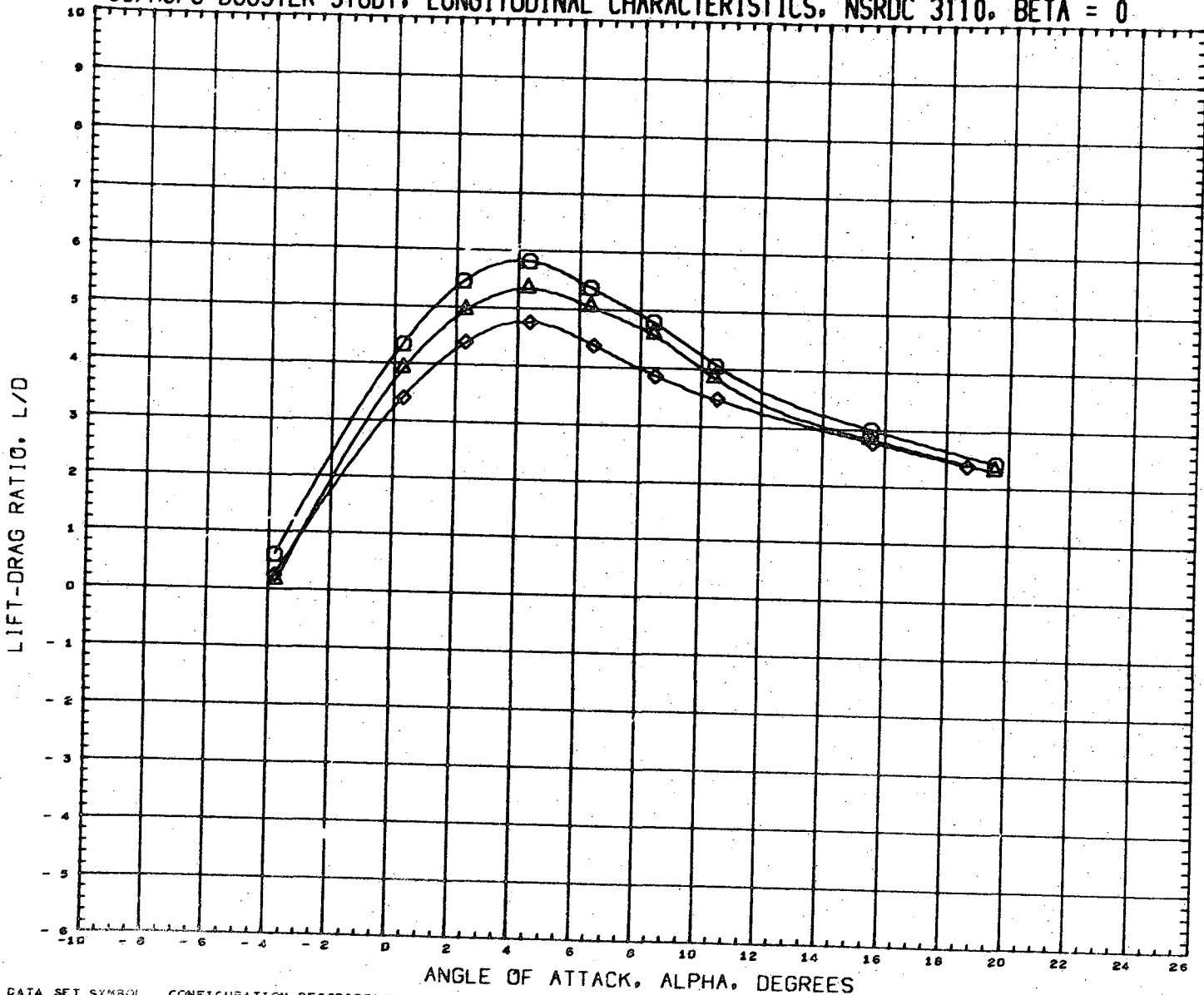
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2037)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2229)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2289)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

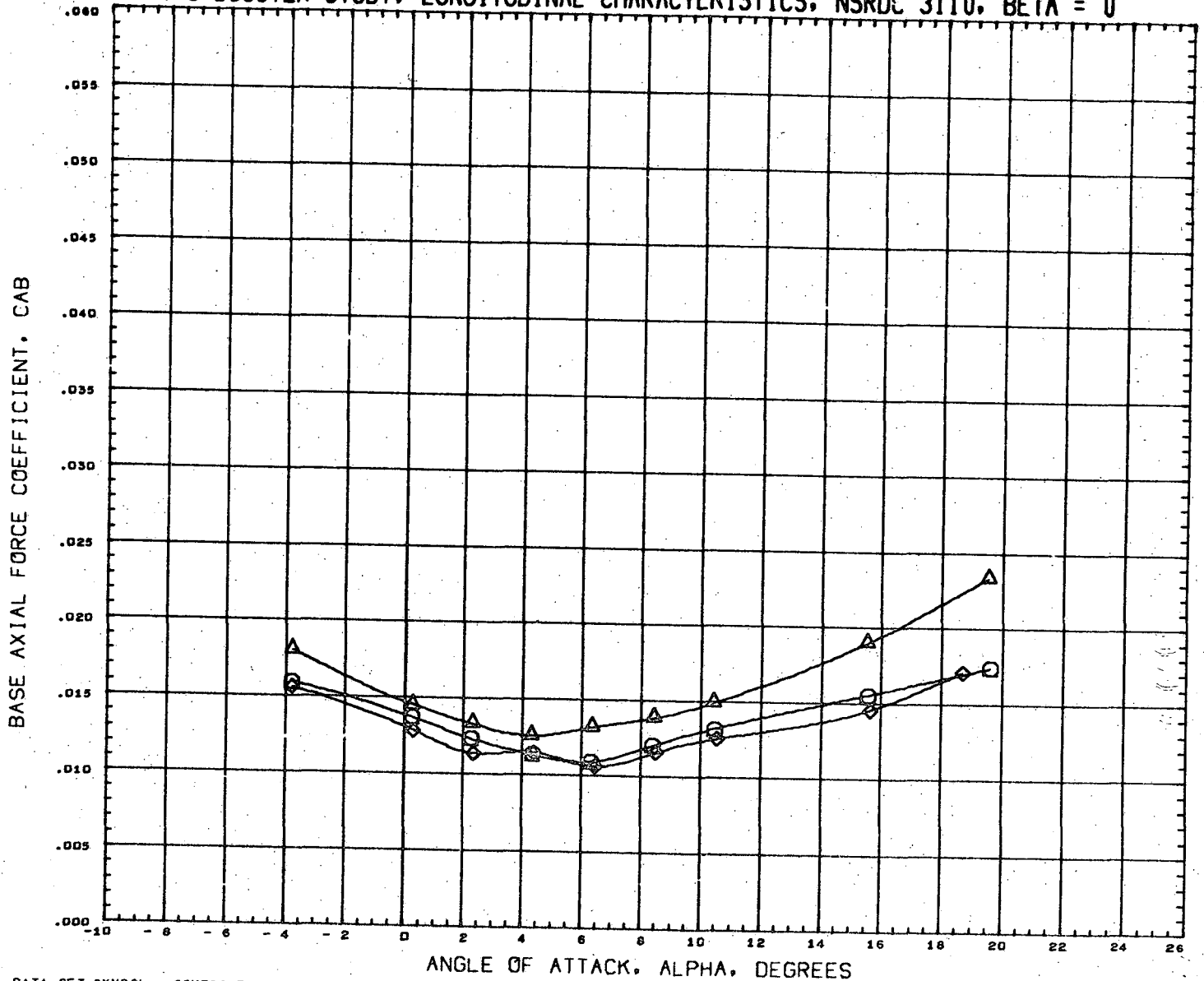
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2037)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2229)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2239)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

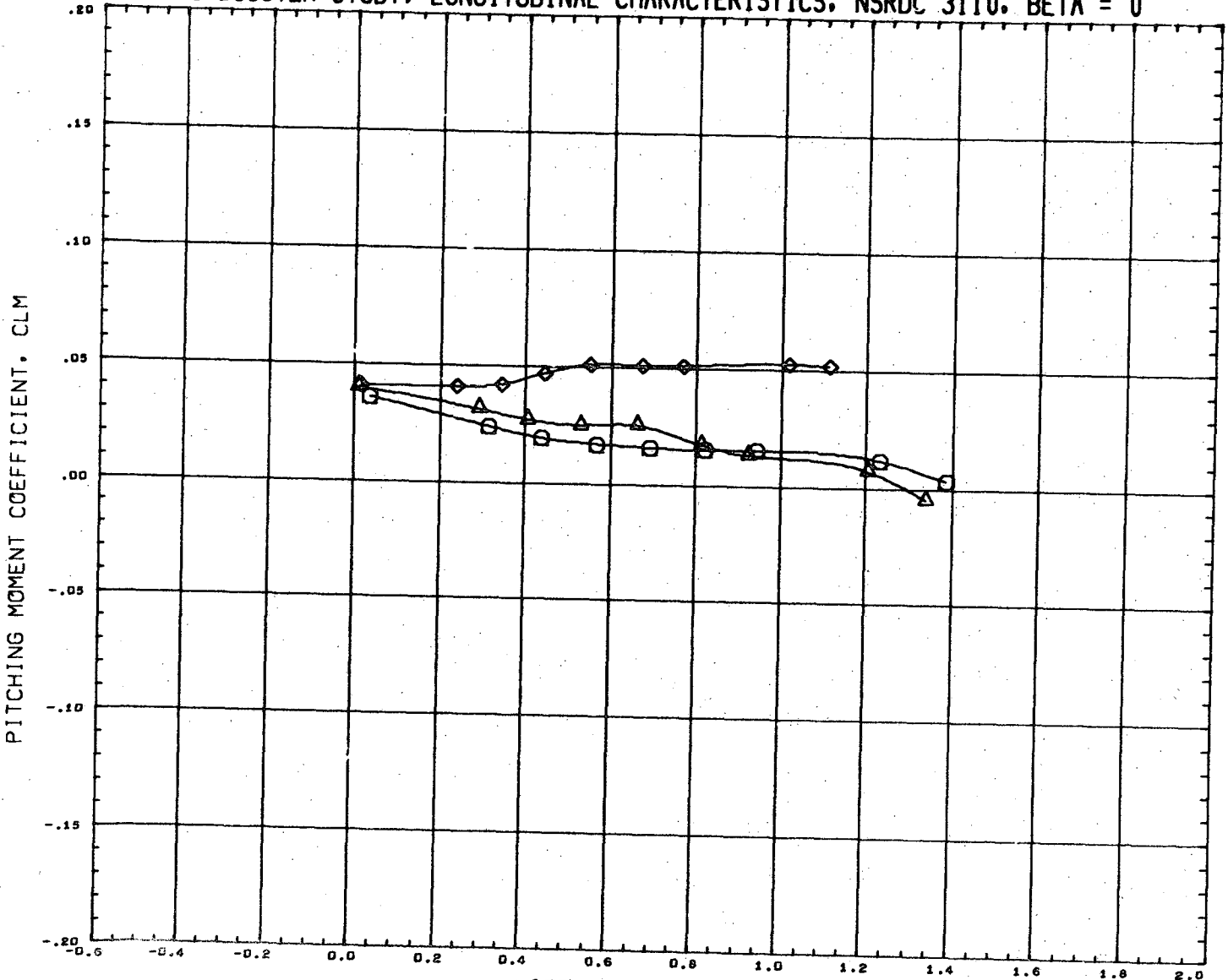
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2037)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2229)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2289)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

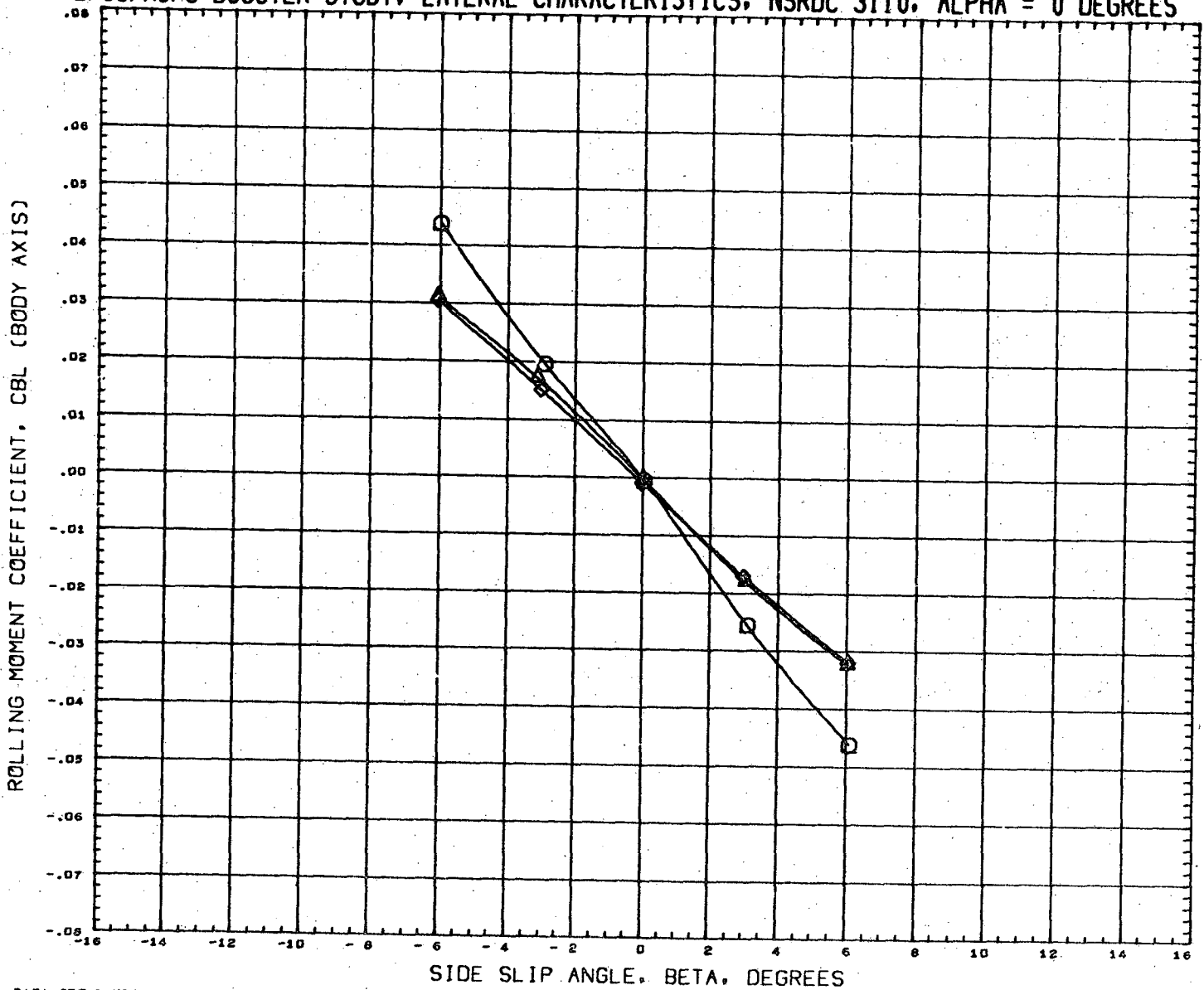
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2037)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2229)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2269)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

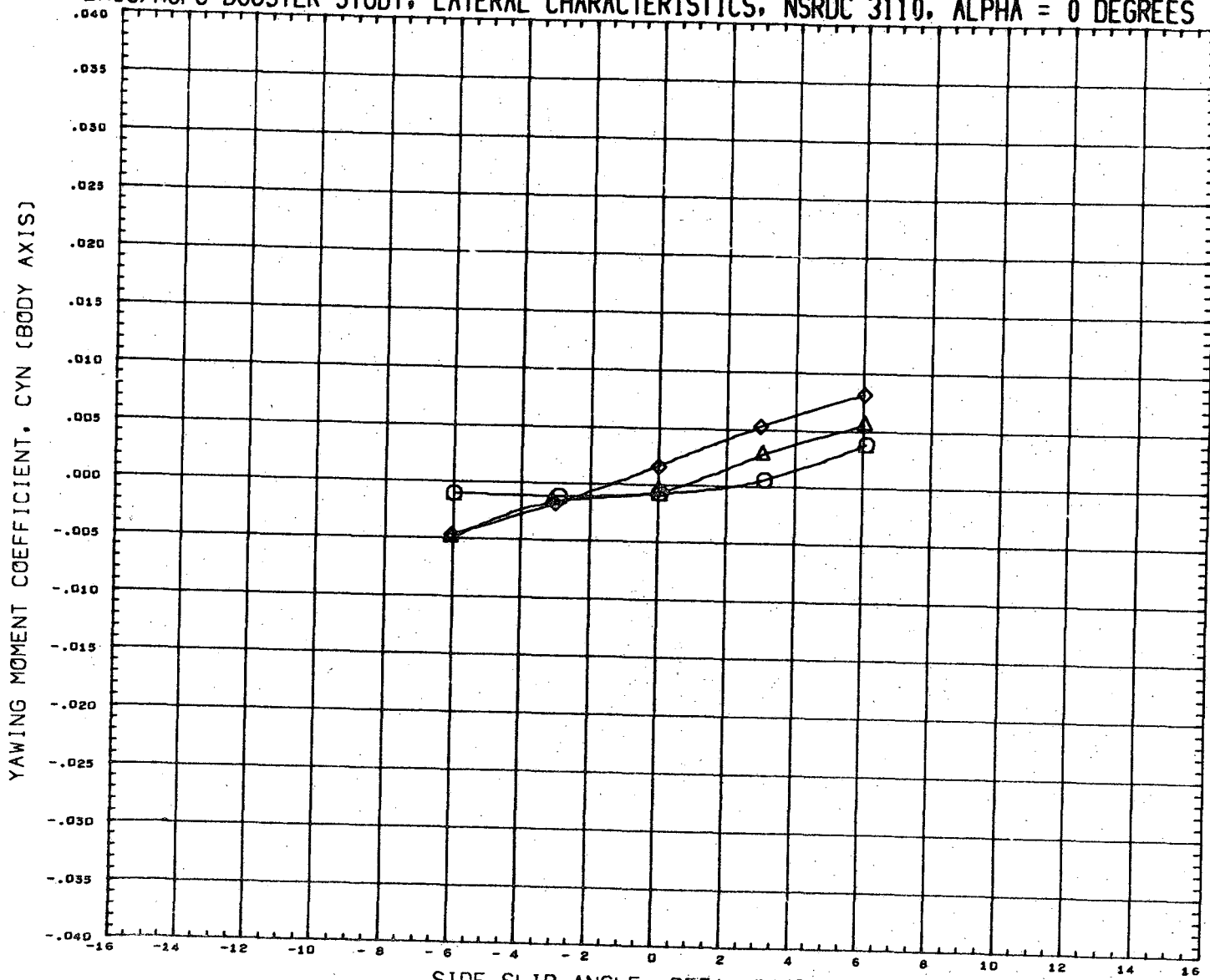
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2038)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2230)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2290)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

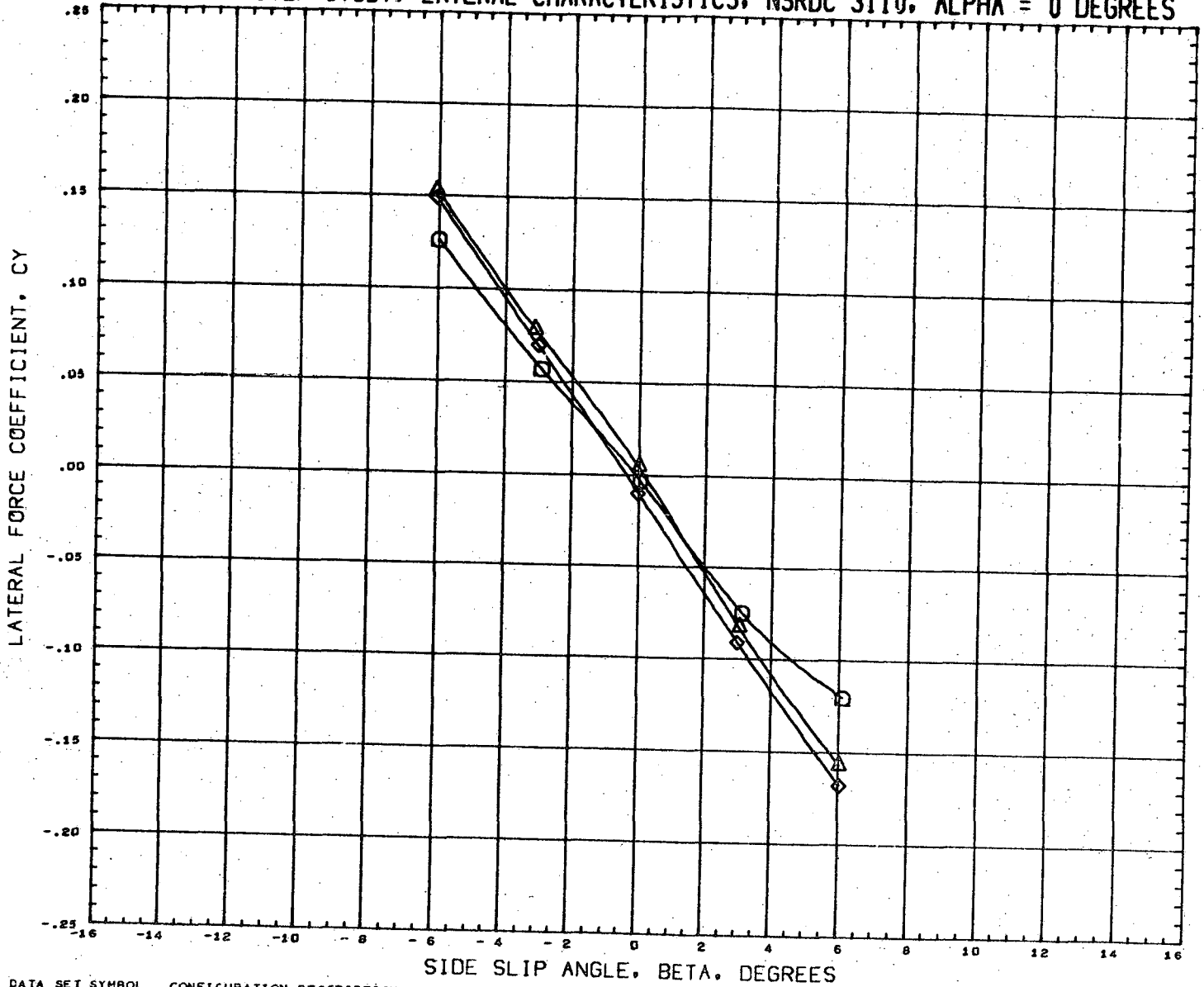
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2038)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN223D)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN229D)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

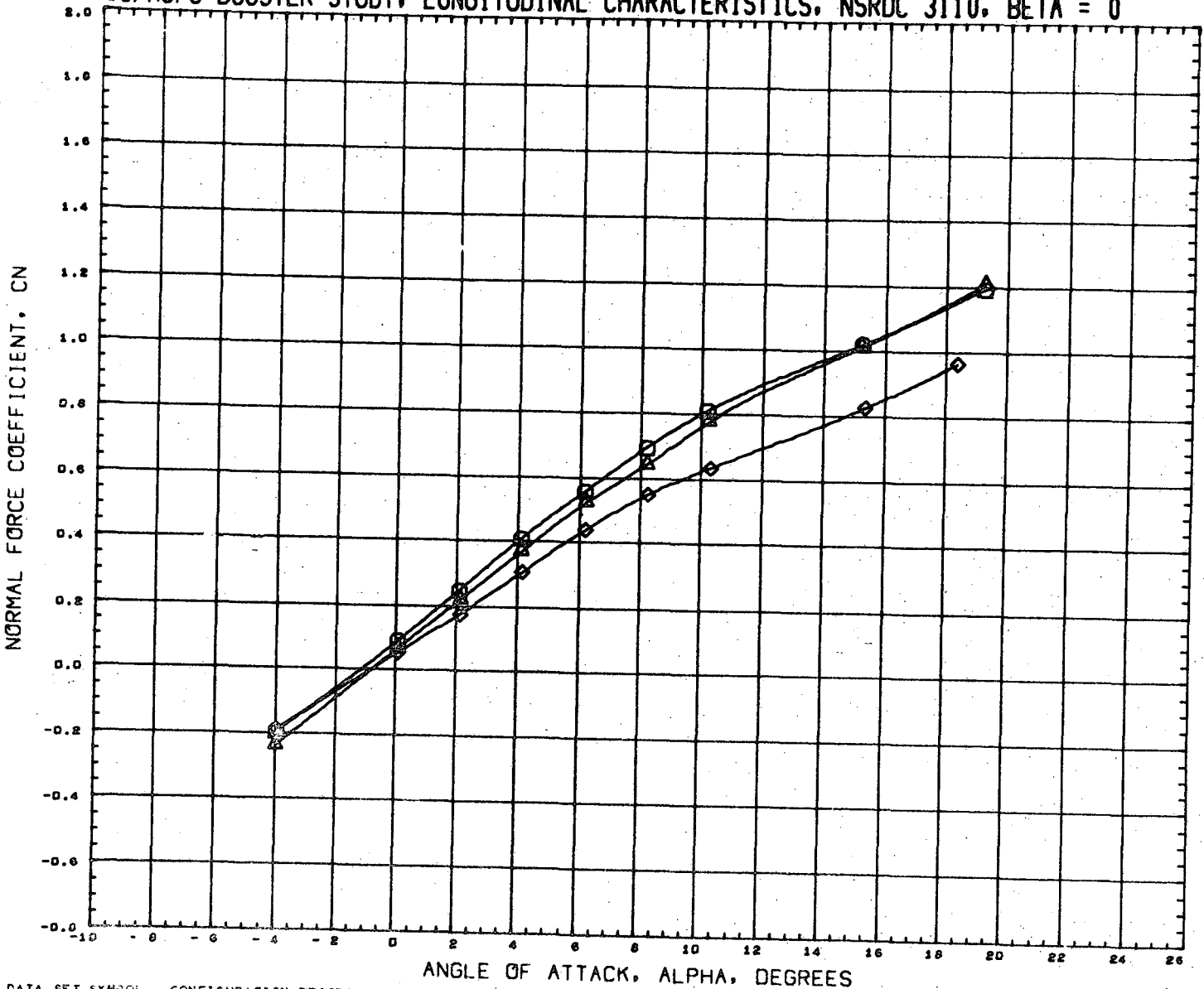
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2038)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2230)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
(RN2290)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

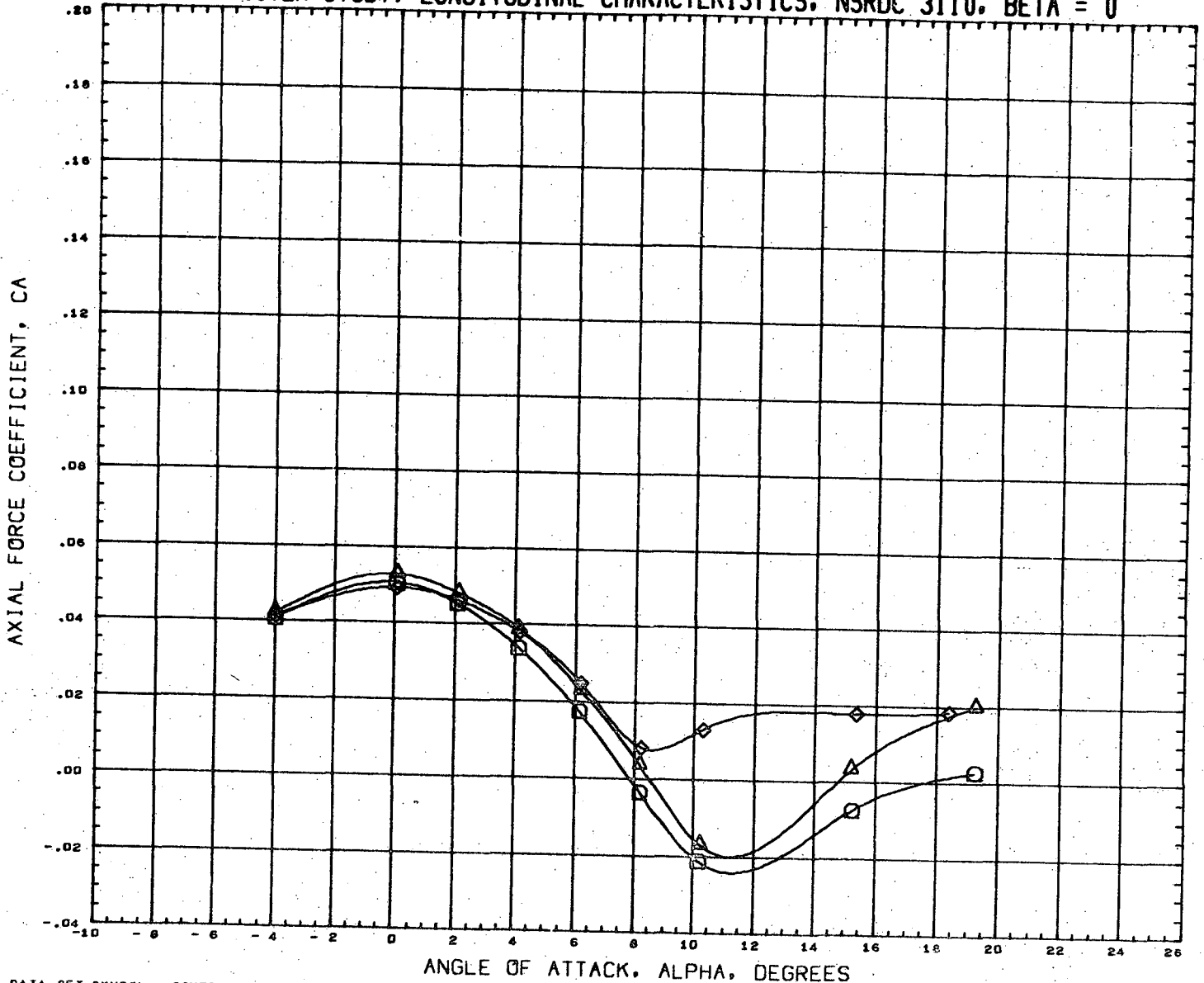
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2009)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2201)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2265)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.591

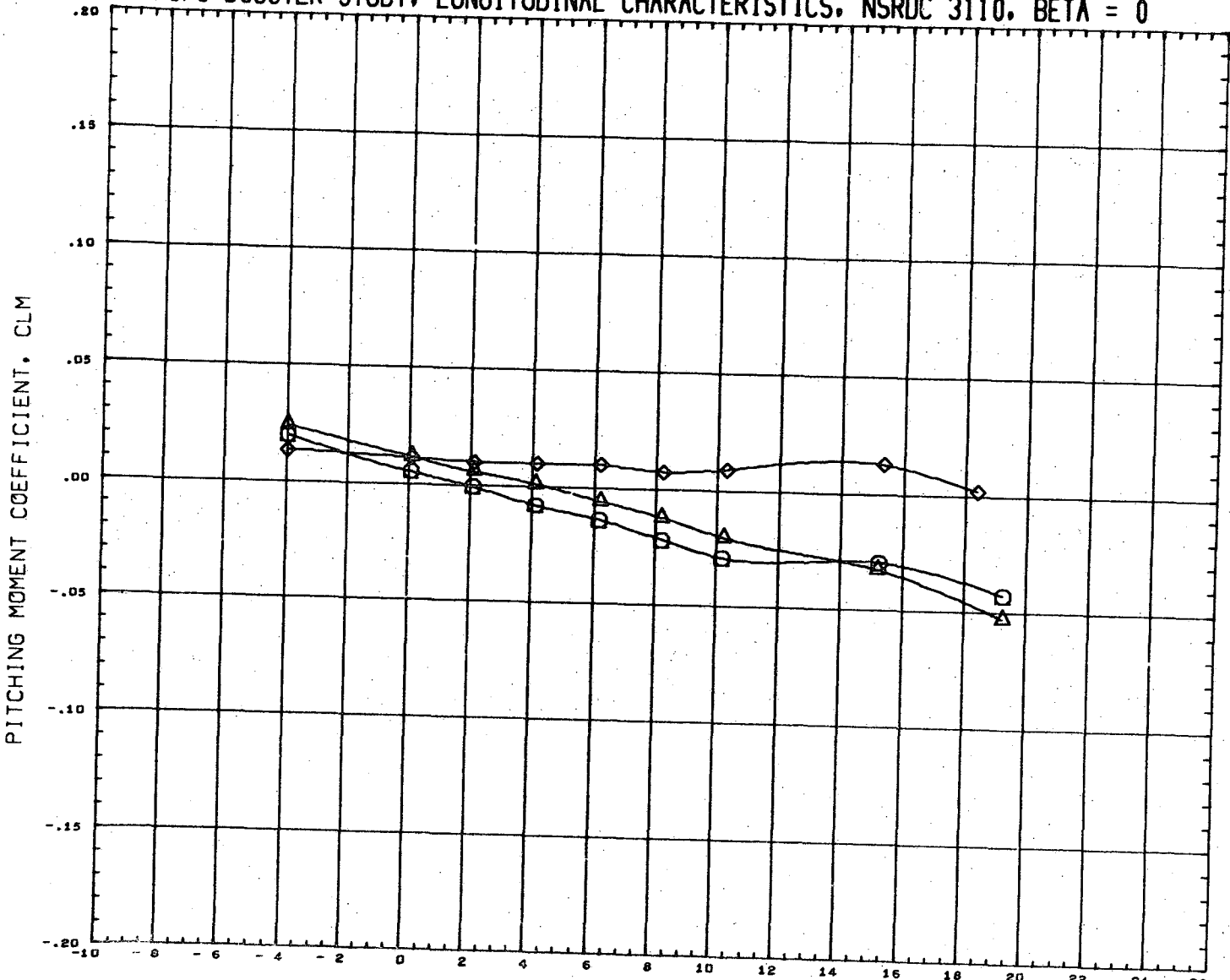
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2009)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2201)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2265)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

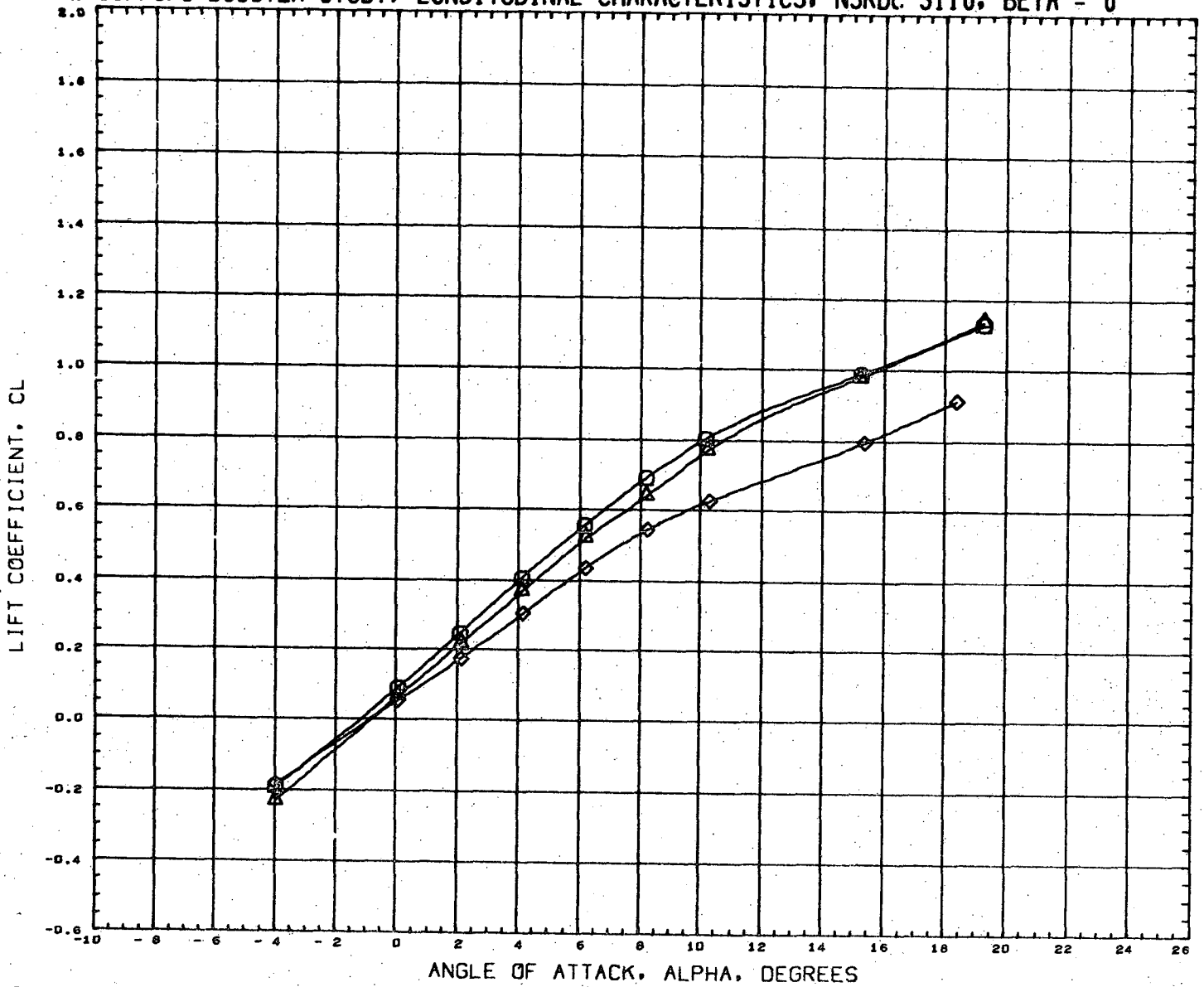
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2009)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2201)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2265)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

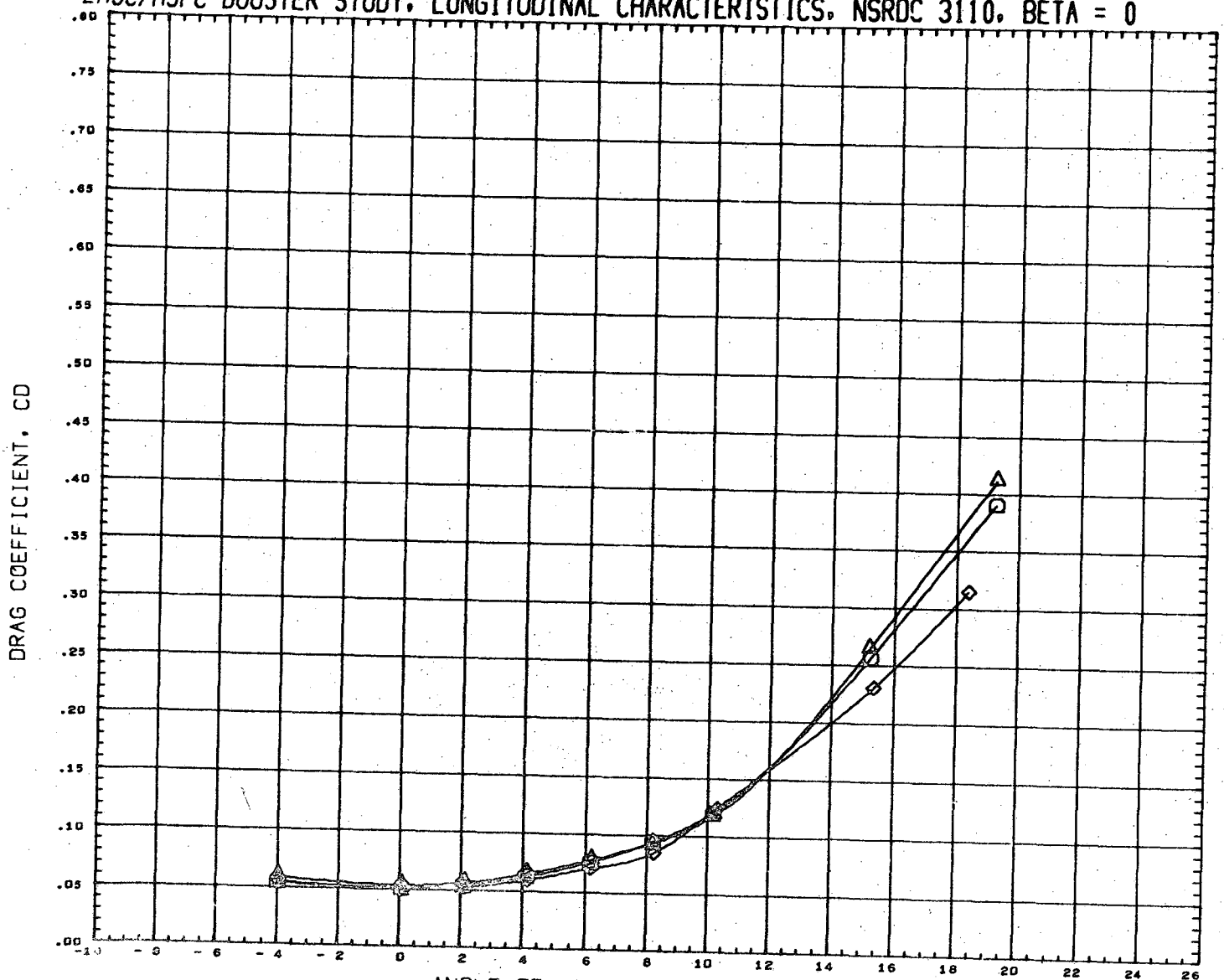
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2009)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2201)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2265)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.381

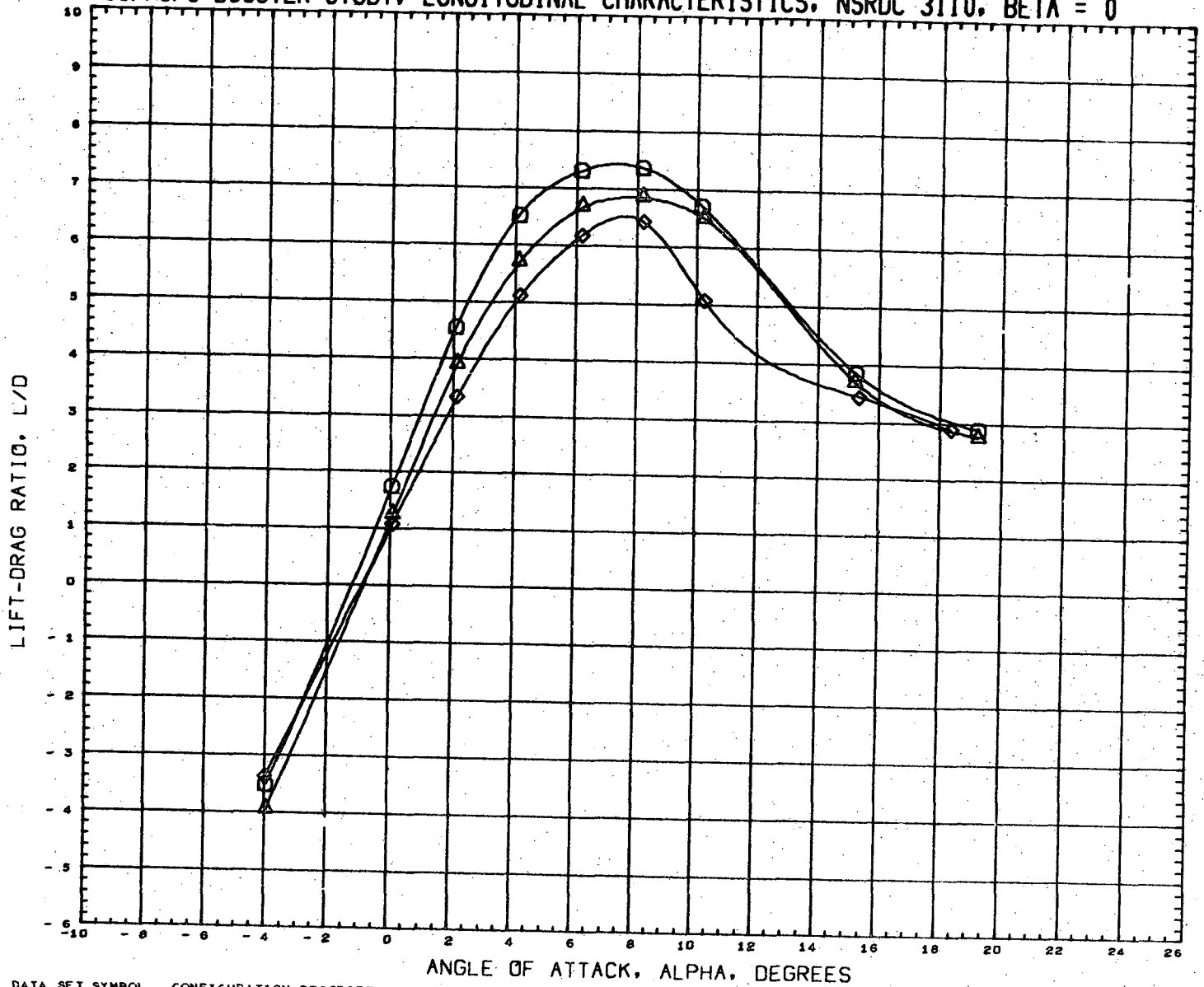
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2009)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2201)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2255)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

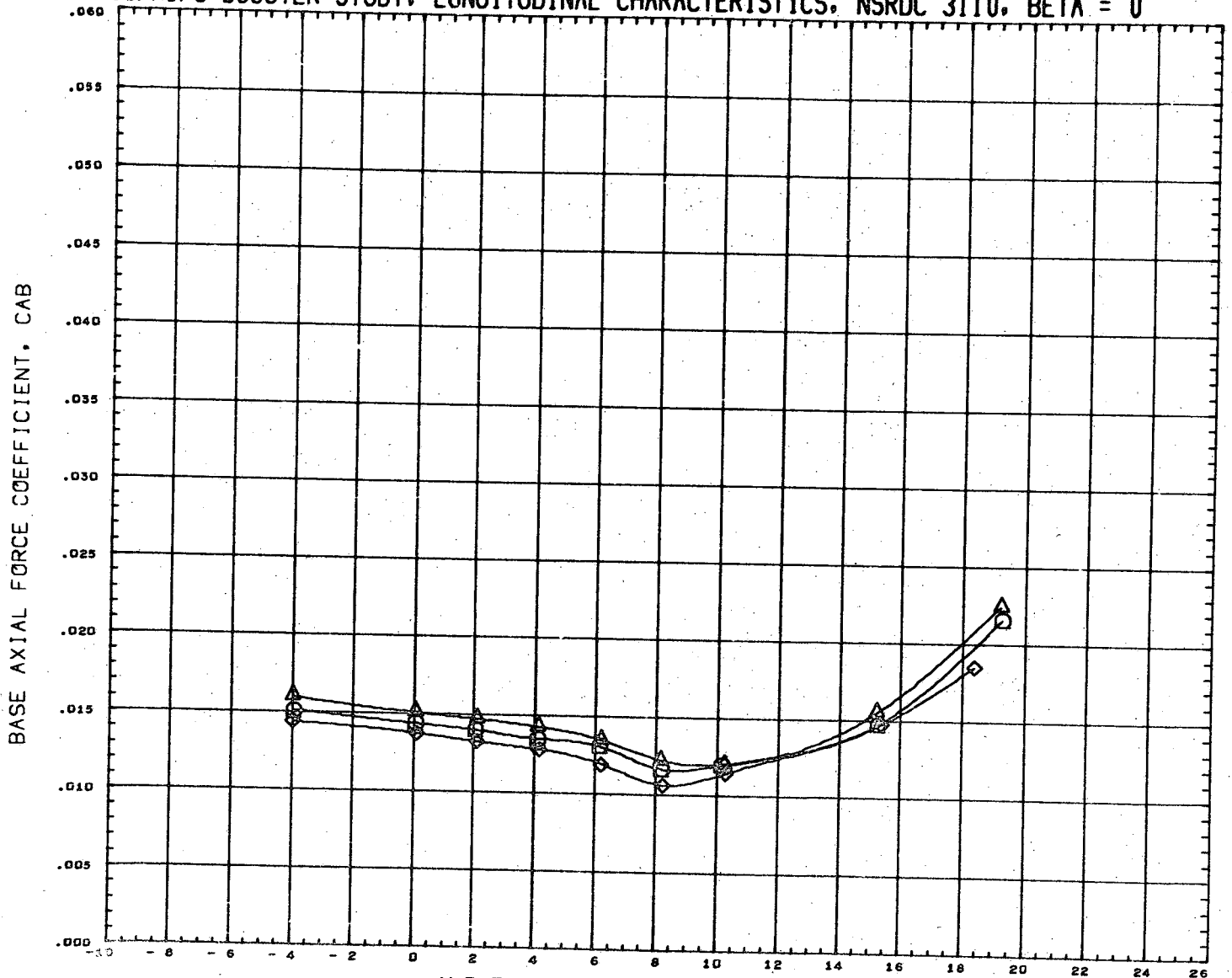
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2009)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2201)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2265)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

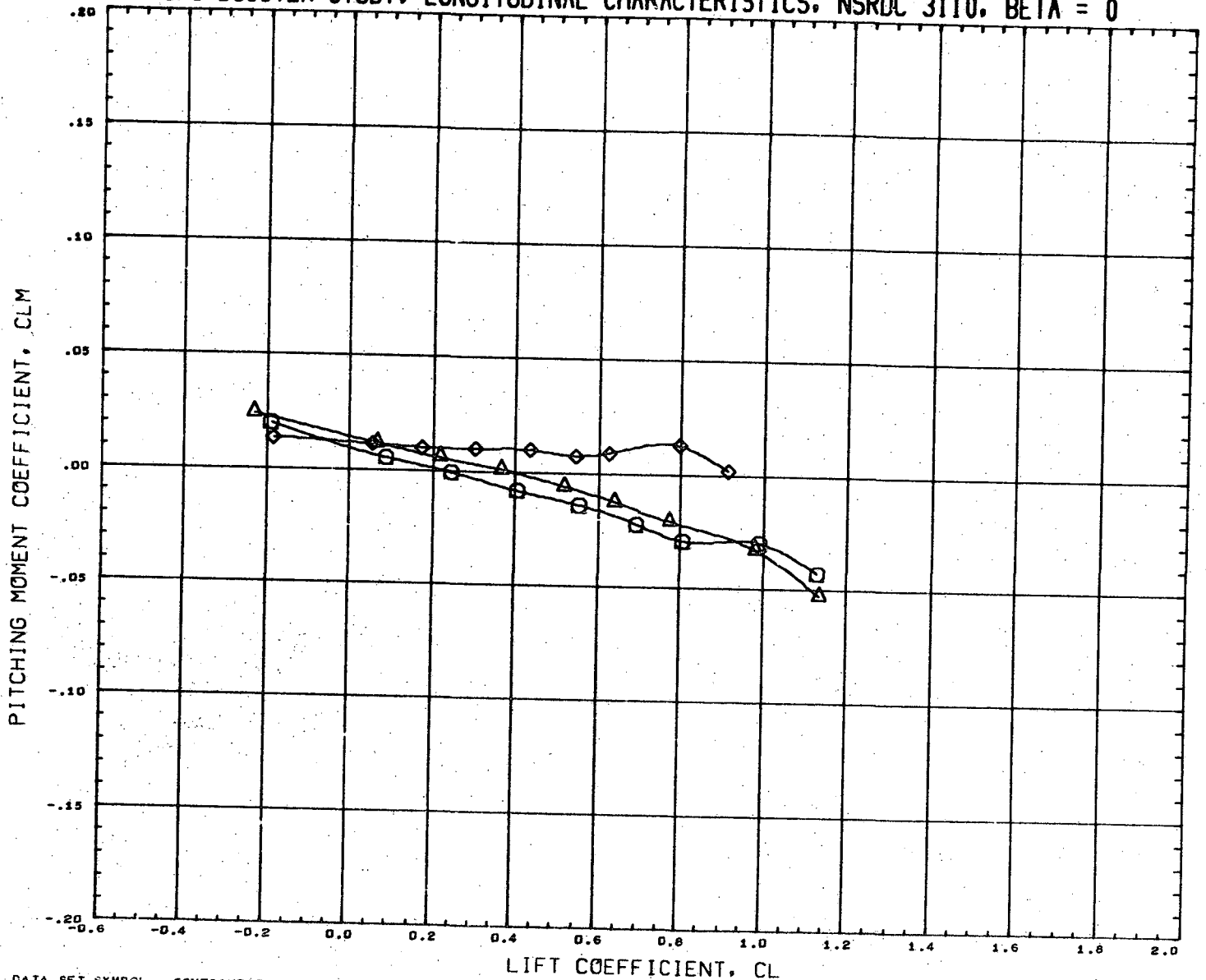
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2009)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2201)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2265)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

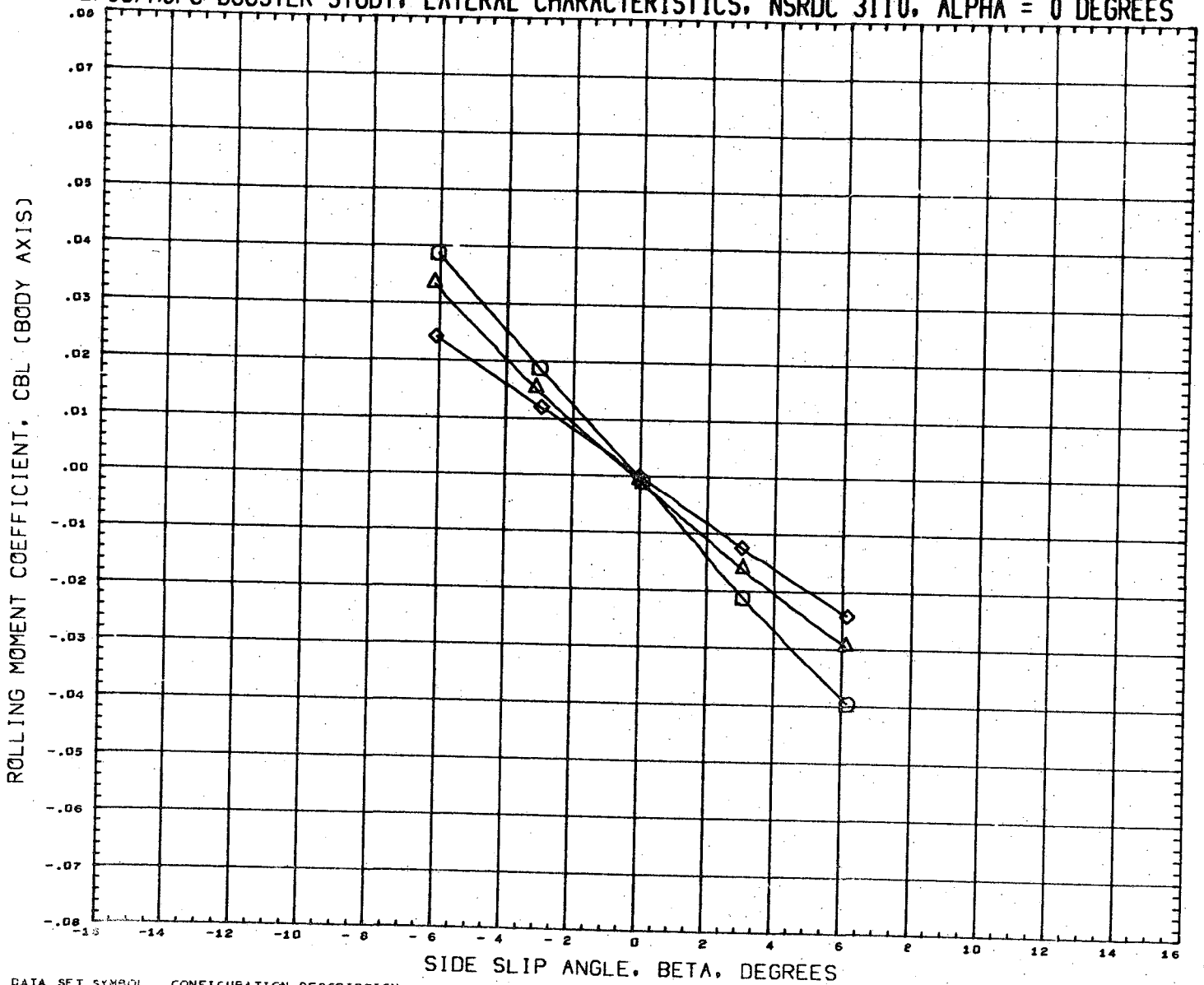
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2009)	○	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2201)	△	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	LREF	41.4360 INCHES
(RN2265)	◇	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	BREF	41.4360 INCHES
							XMRP	31.1400 INCHES
							YMRP	0.0000 INCHES
							ZMRP	0.2250 INCHES
							SCALE	1.5000 PERCENT

MACH 0.381

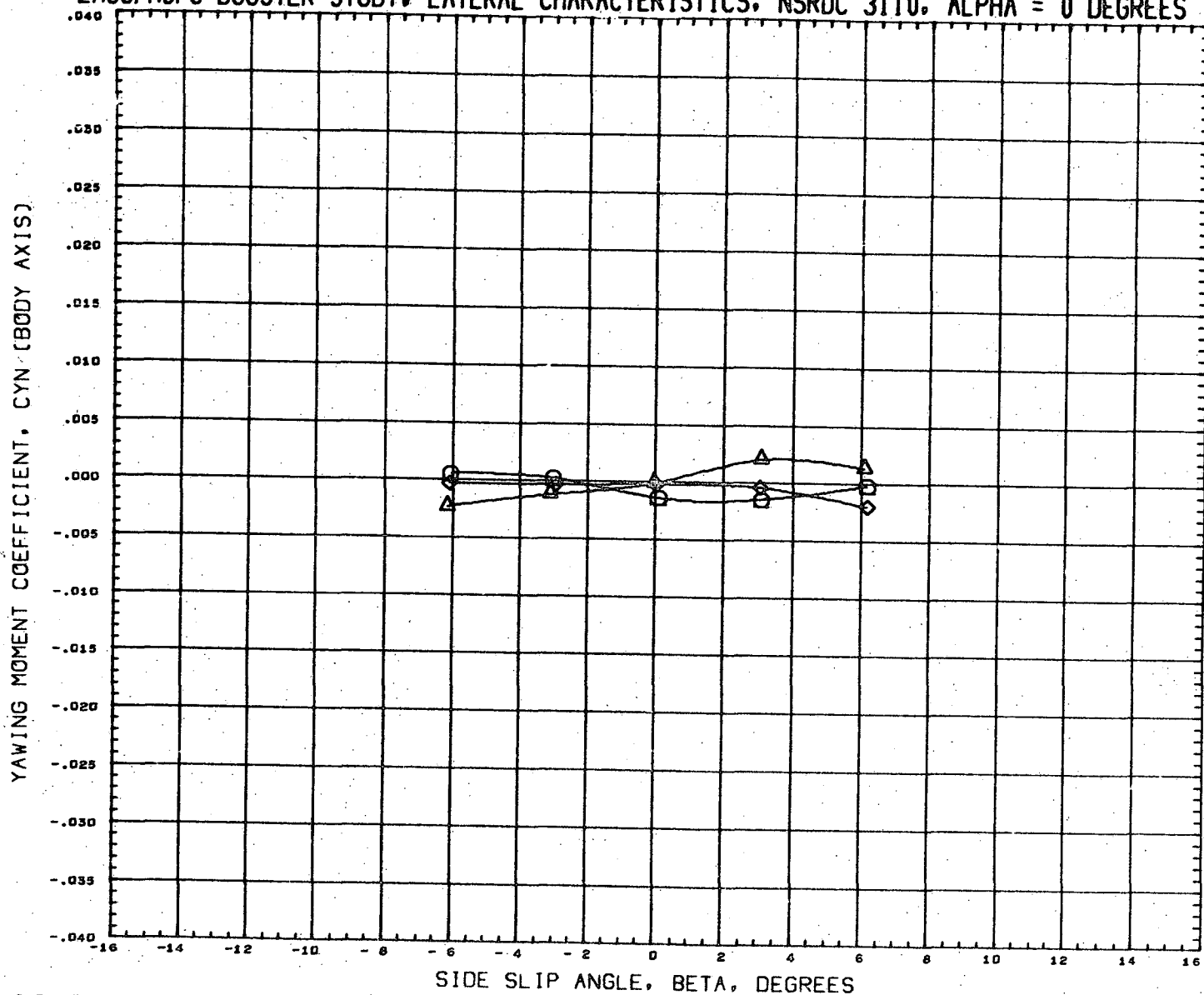
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2D10)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2D05)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2266)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

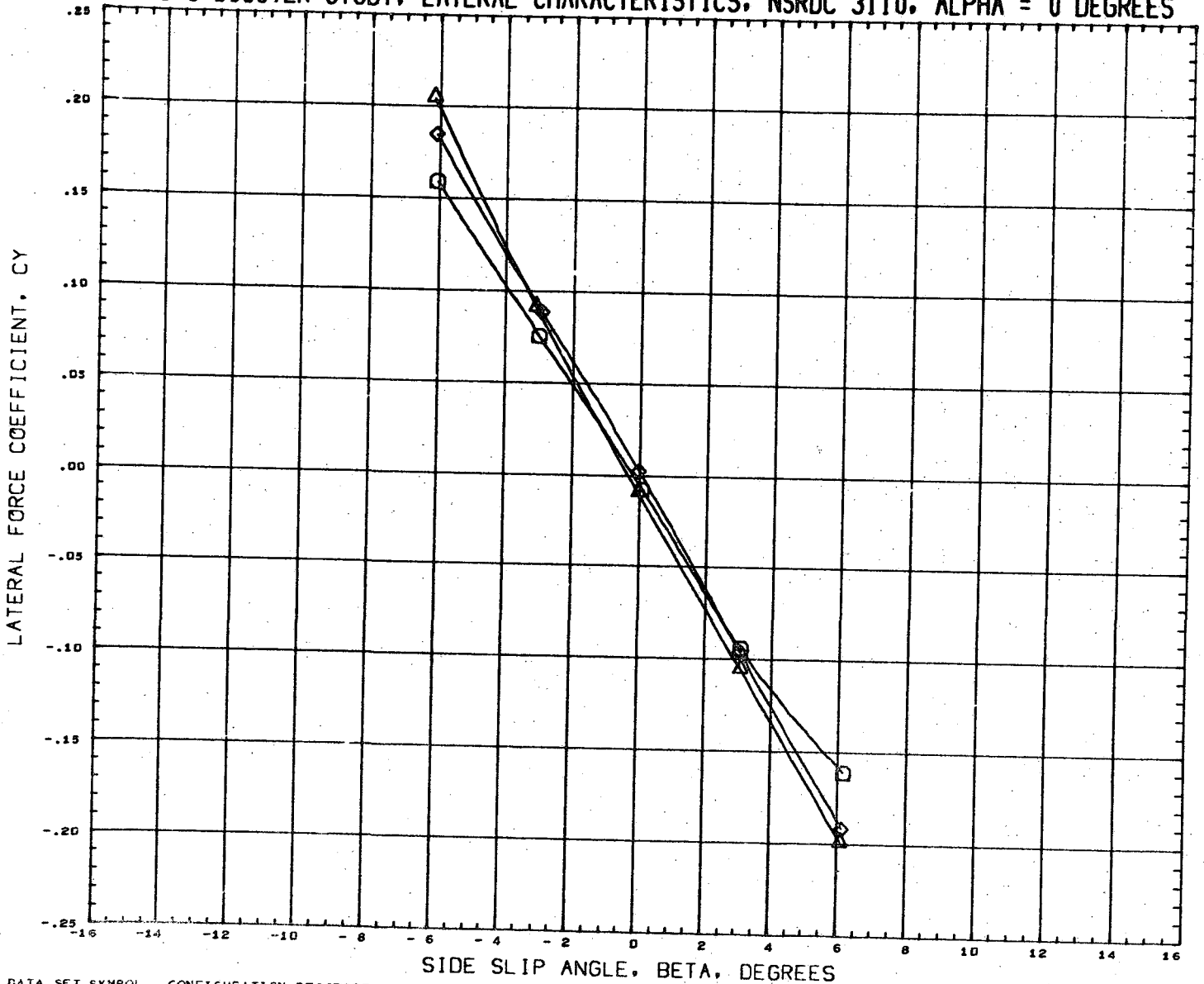
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2010)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2206)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2266)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

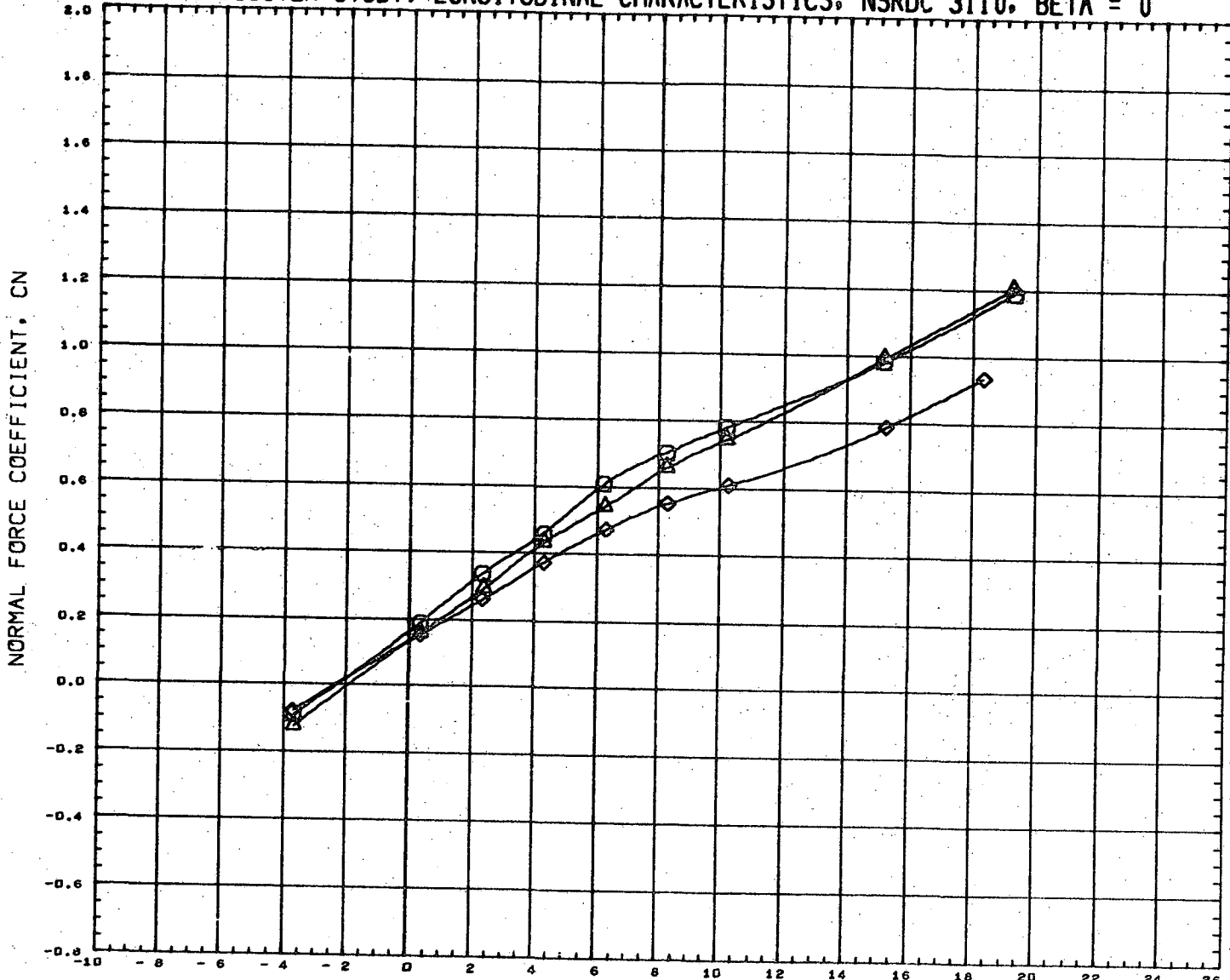
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2010)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2206)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2266)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

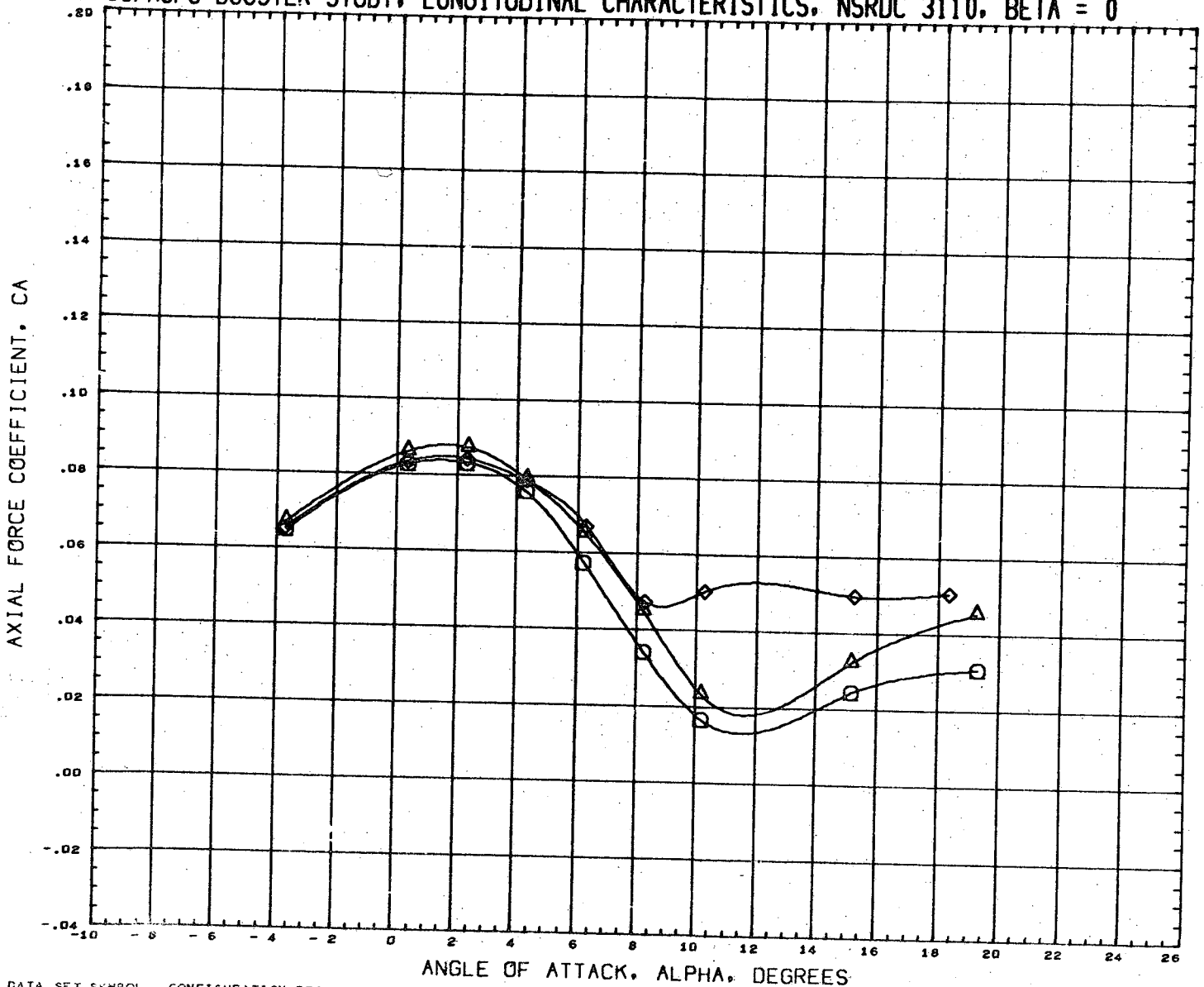
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2205)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2269)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.362

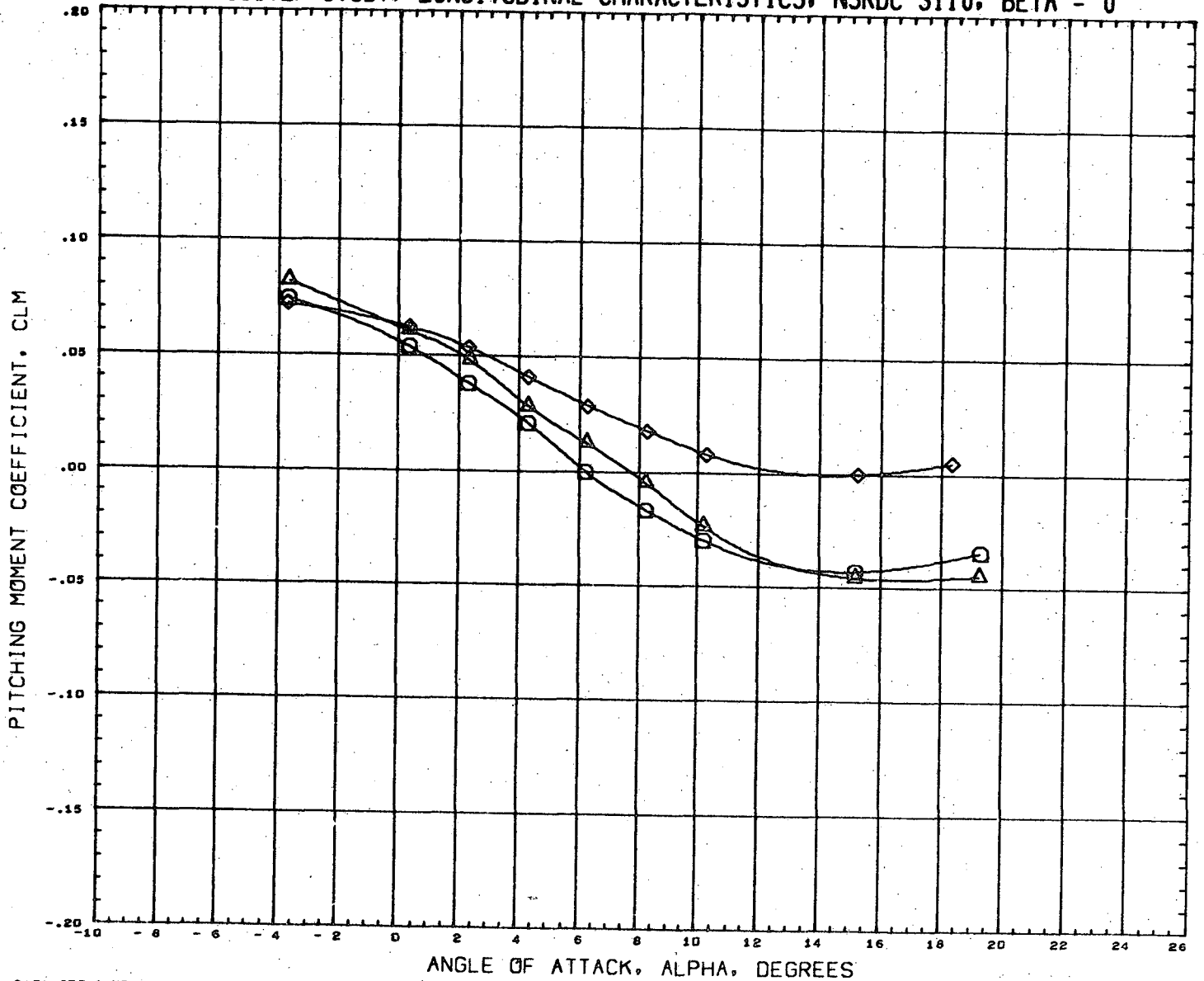
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2015)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2205)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2209)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

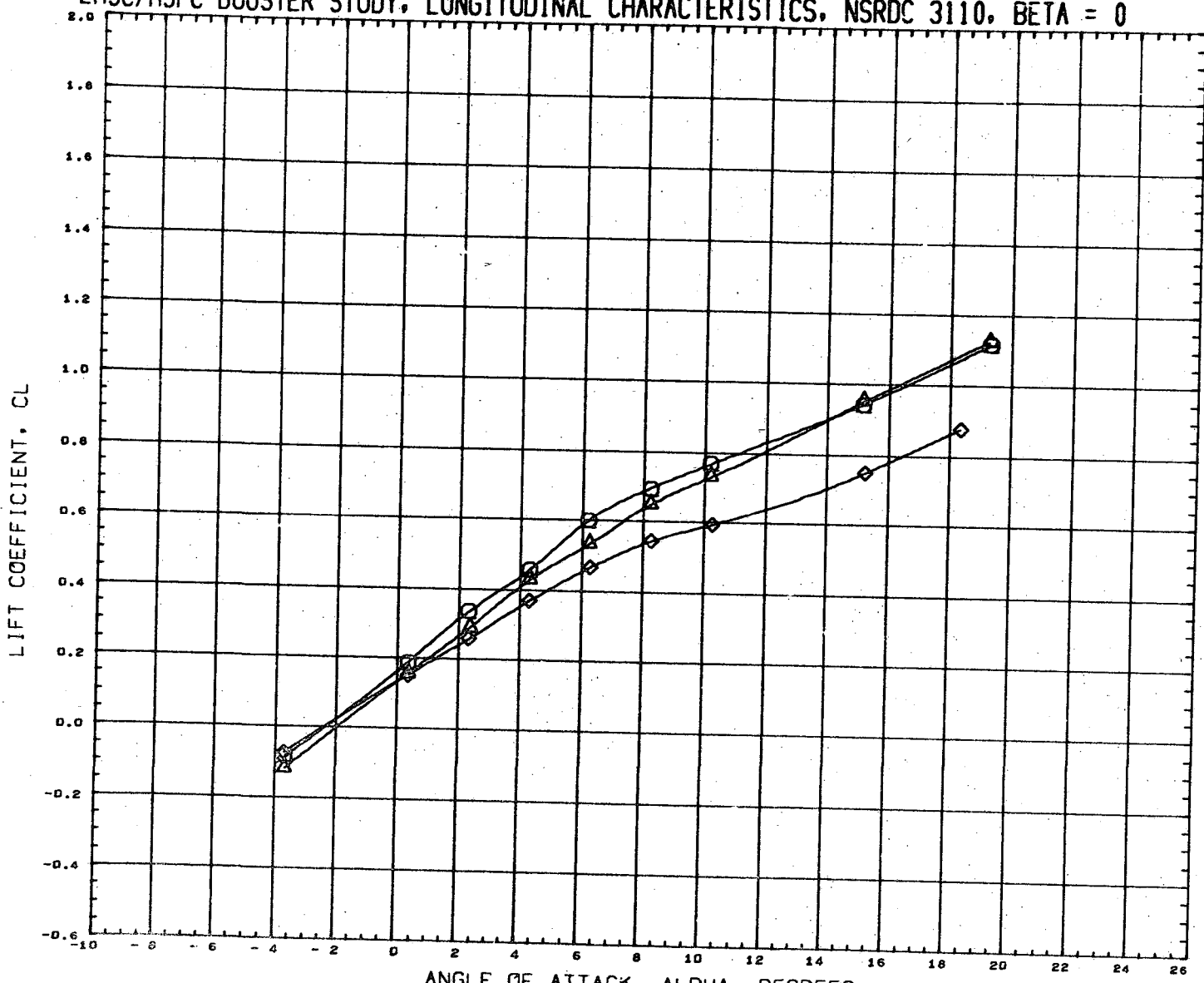
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2205)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2269)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH: D.382

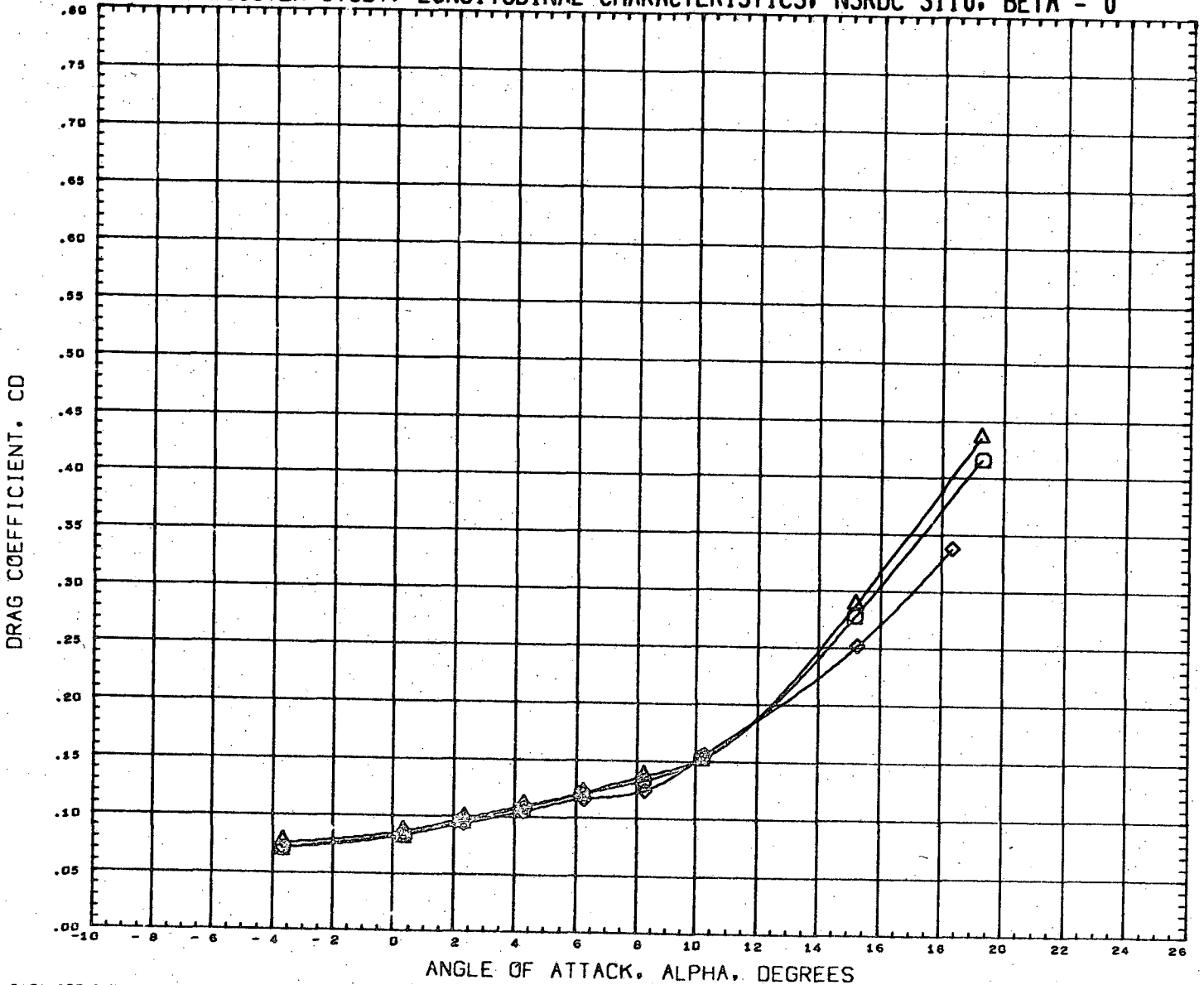
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2205)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2259)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2205)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2269)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.382

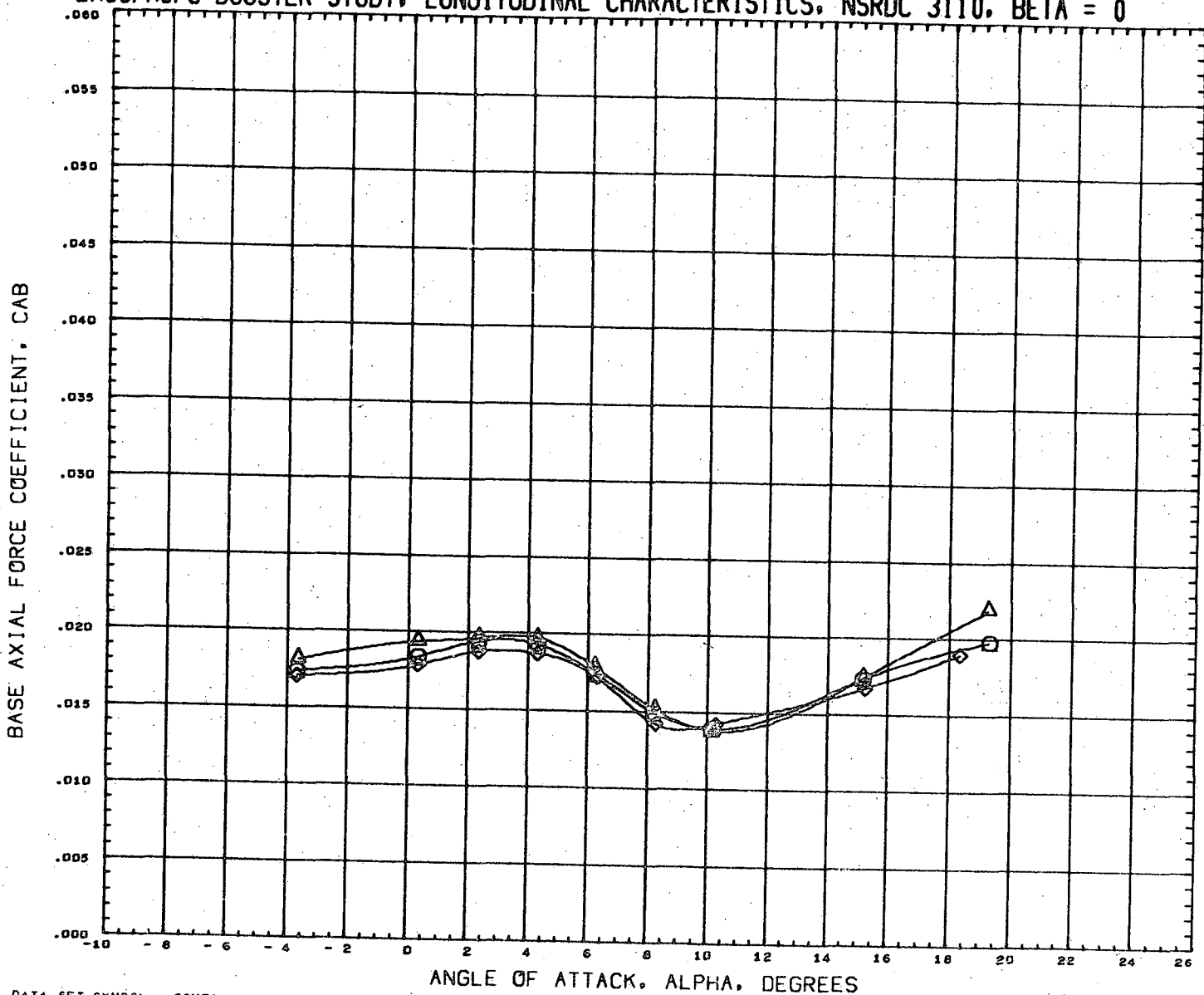
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2205)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2269)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

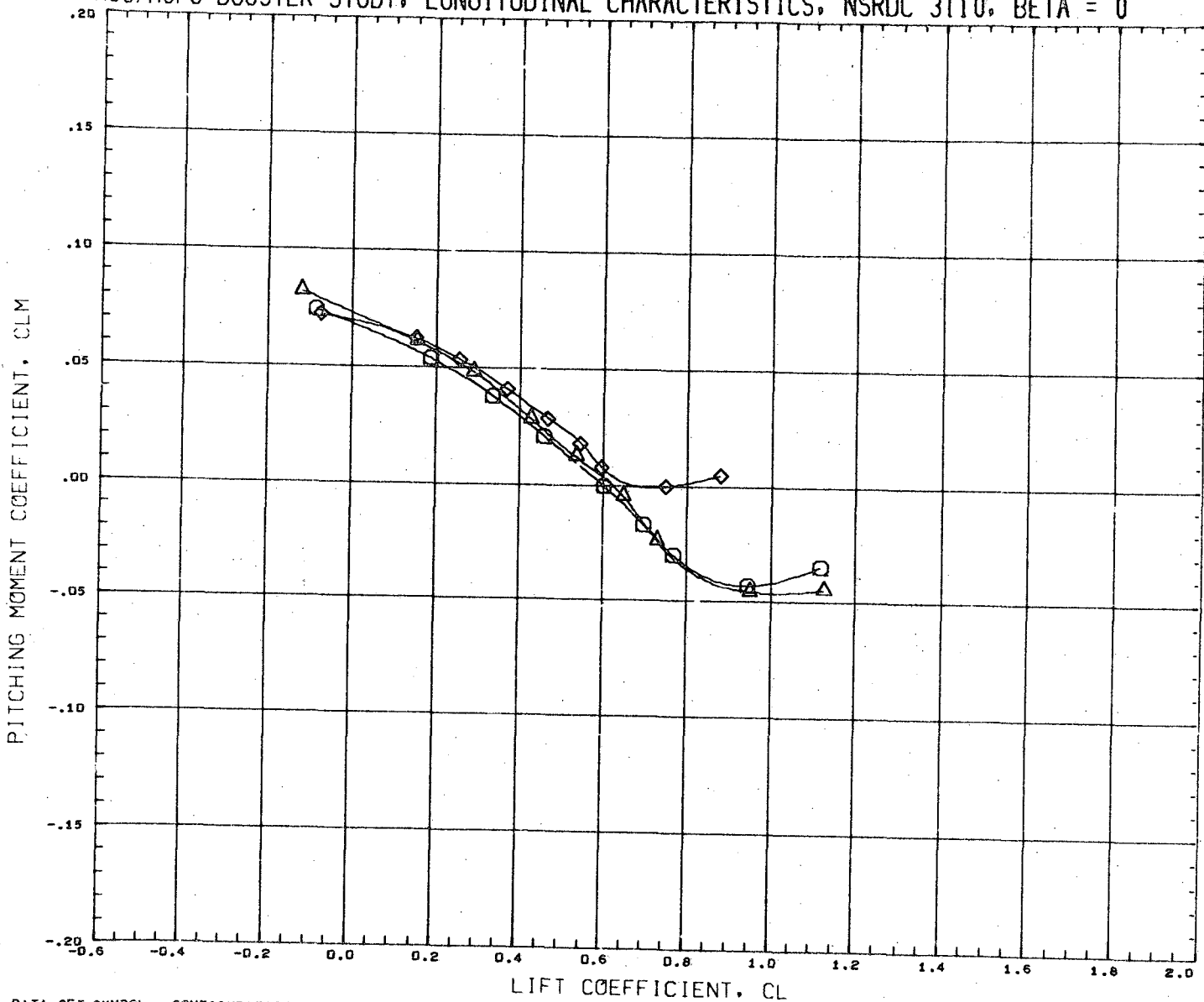
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2205)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2269)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.382

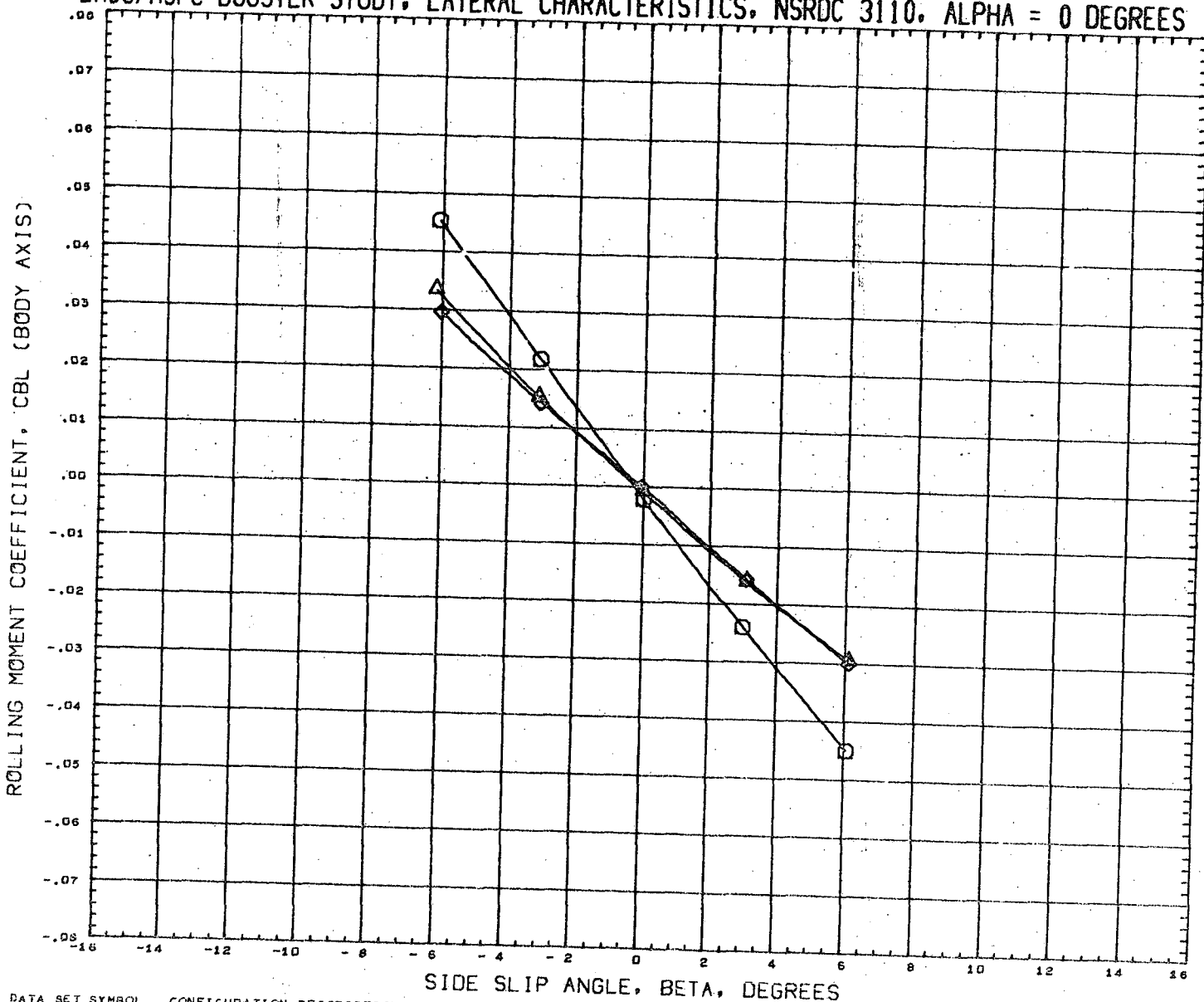
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	REFS 1.3550 SQ.FT.
(RN2205) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	REFL 41.4360 INCHES
(RN2269) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	REFB 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

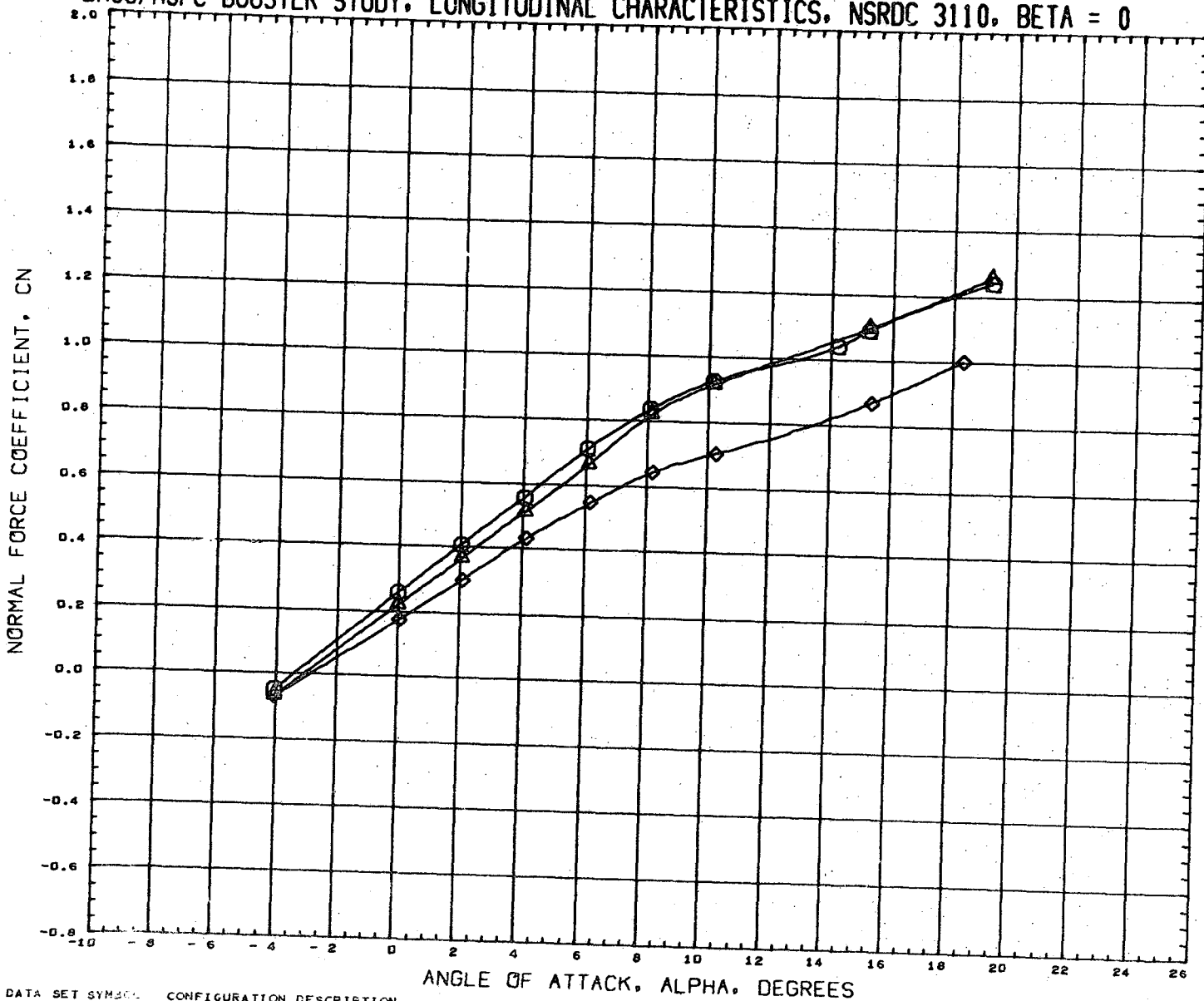


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2014)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2206)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
(RN2270)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

PRECEDING PAGES ██████ NOT FILMED
593, 594 MISSING

LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2041) □
(RN2233) △
(RN2293) ◇

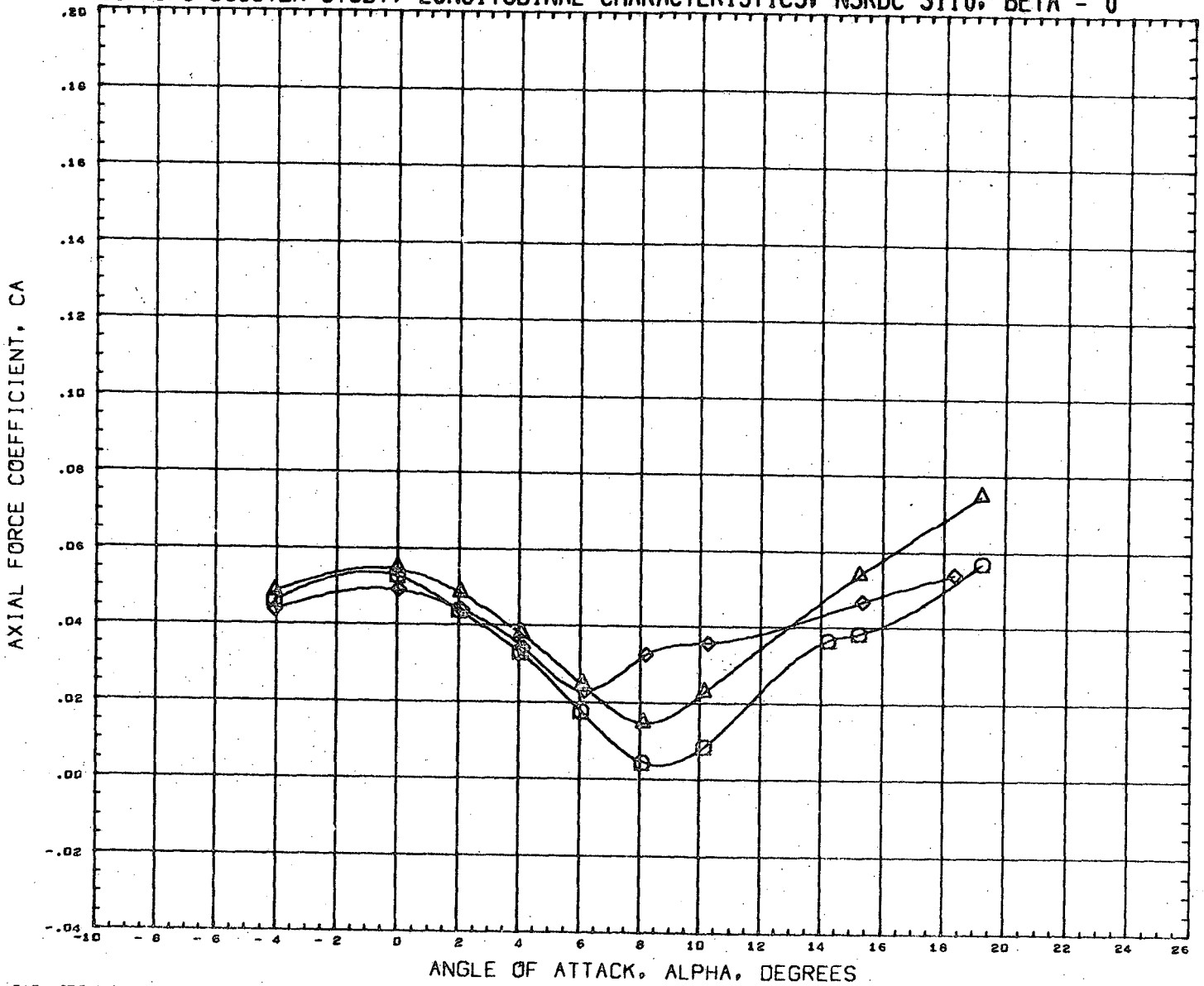
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NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.380

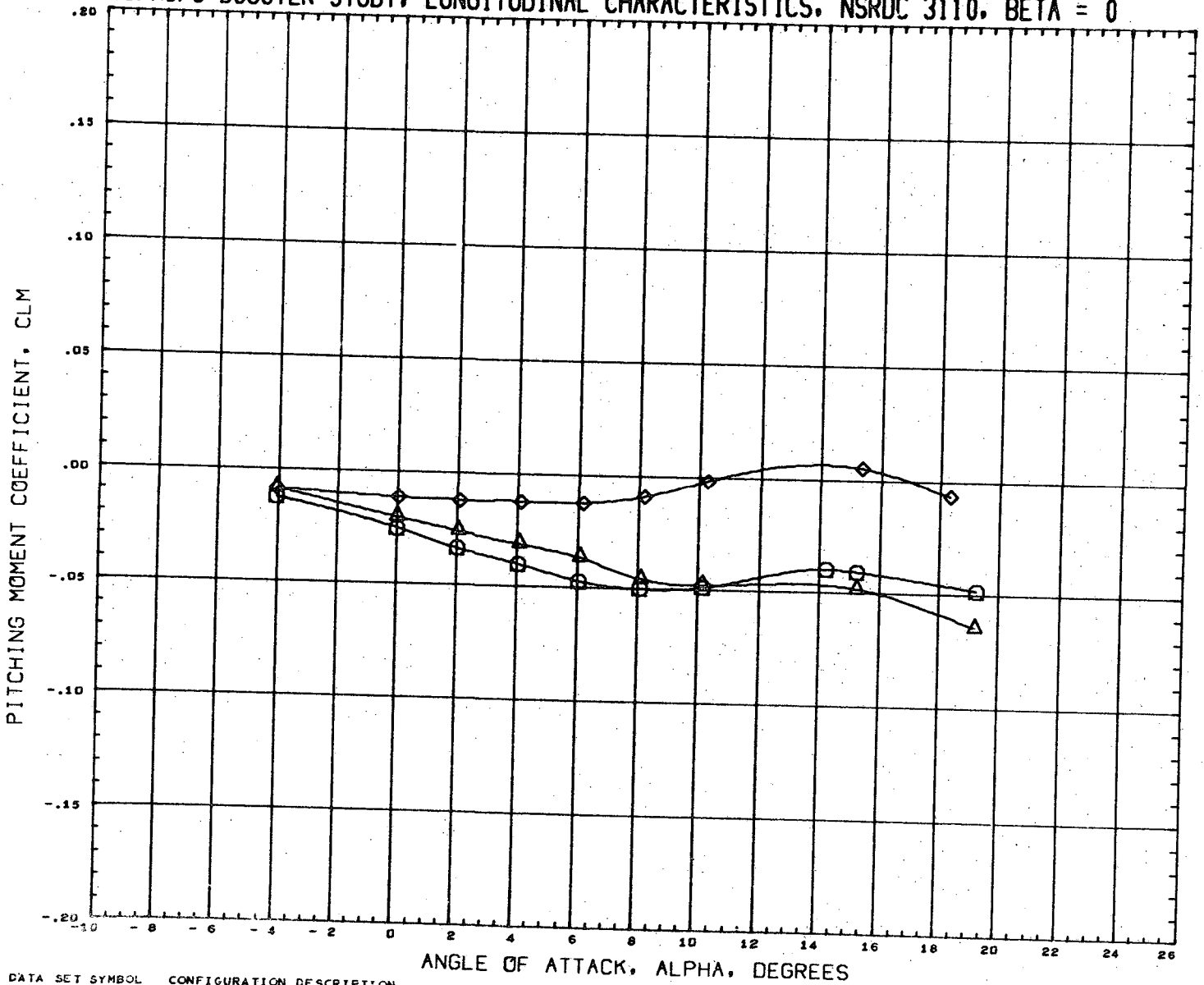
LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2041)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2233)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2293)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.380

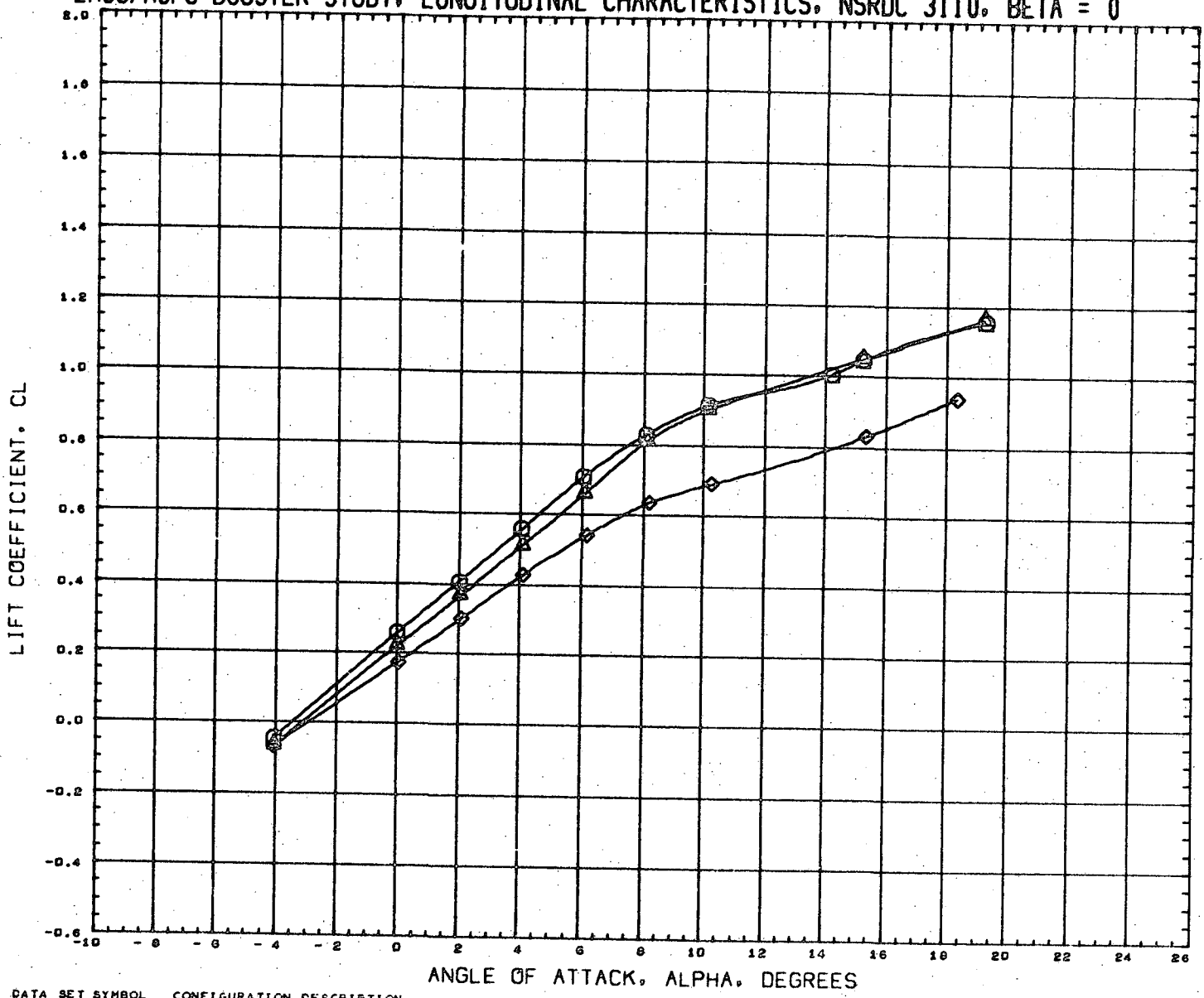
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS	REFERENCE INFORMATION
(RN2041)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2233)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2293)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

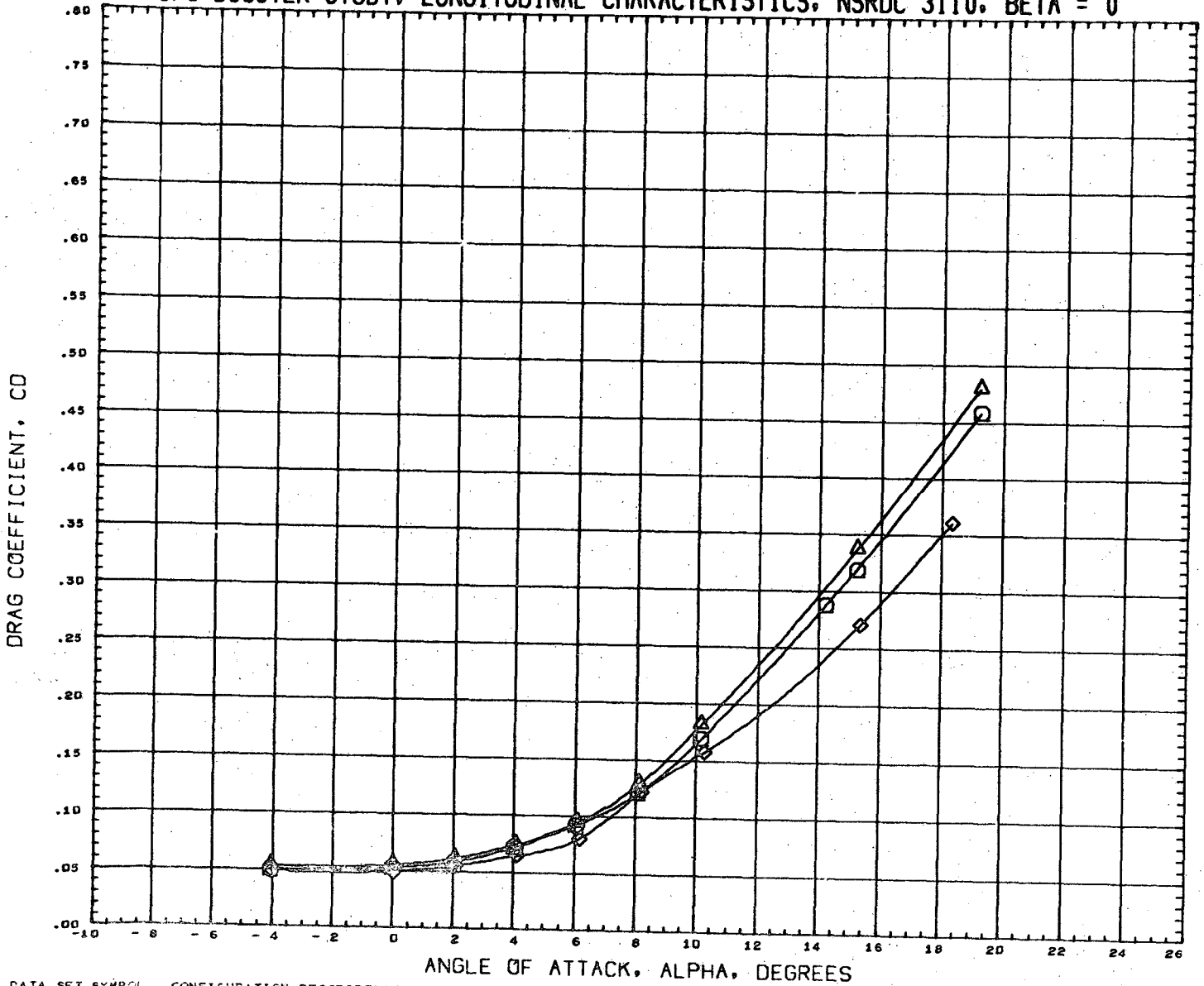
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2041)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2233)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2293)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.390

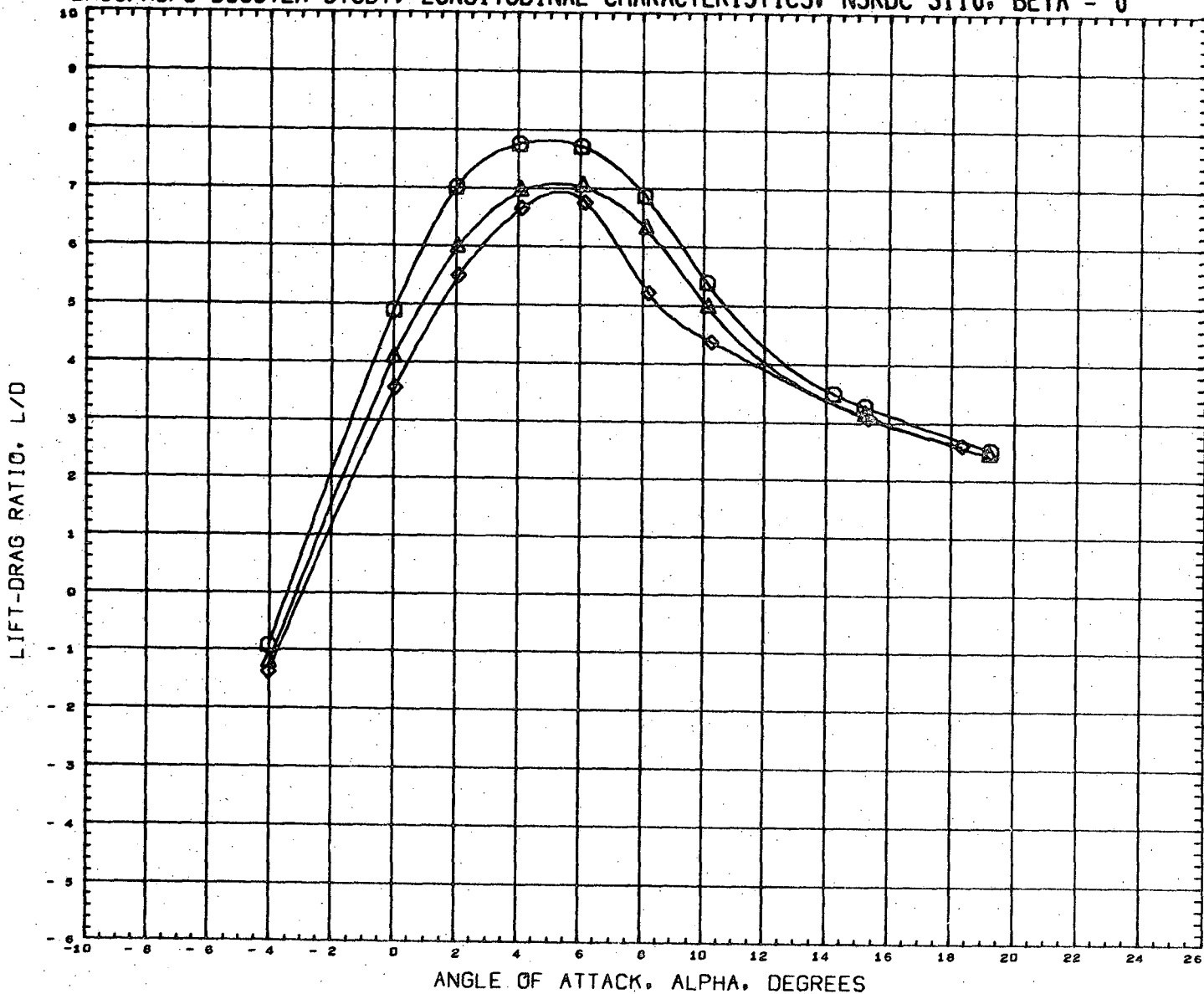
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2041)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2233)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2293)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

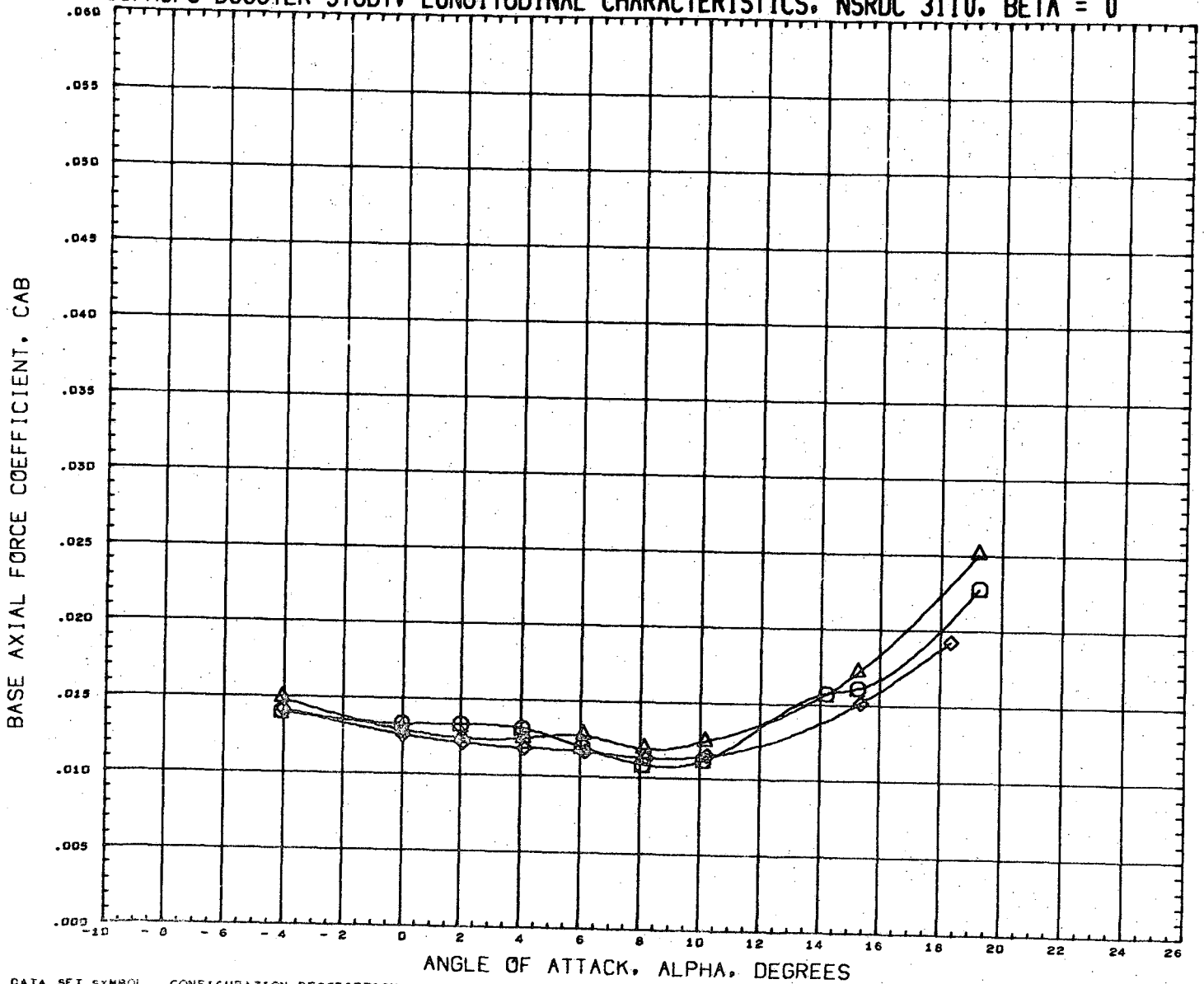
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2041)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2233)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2293)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

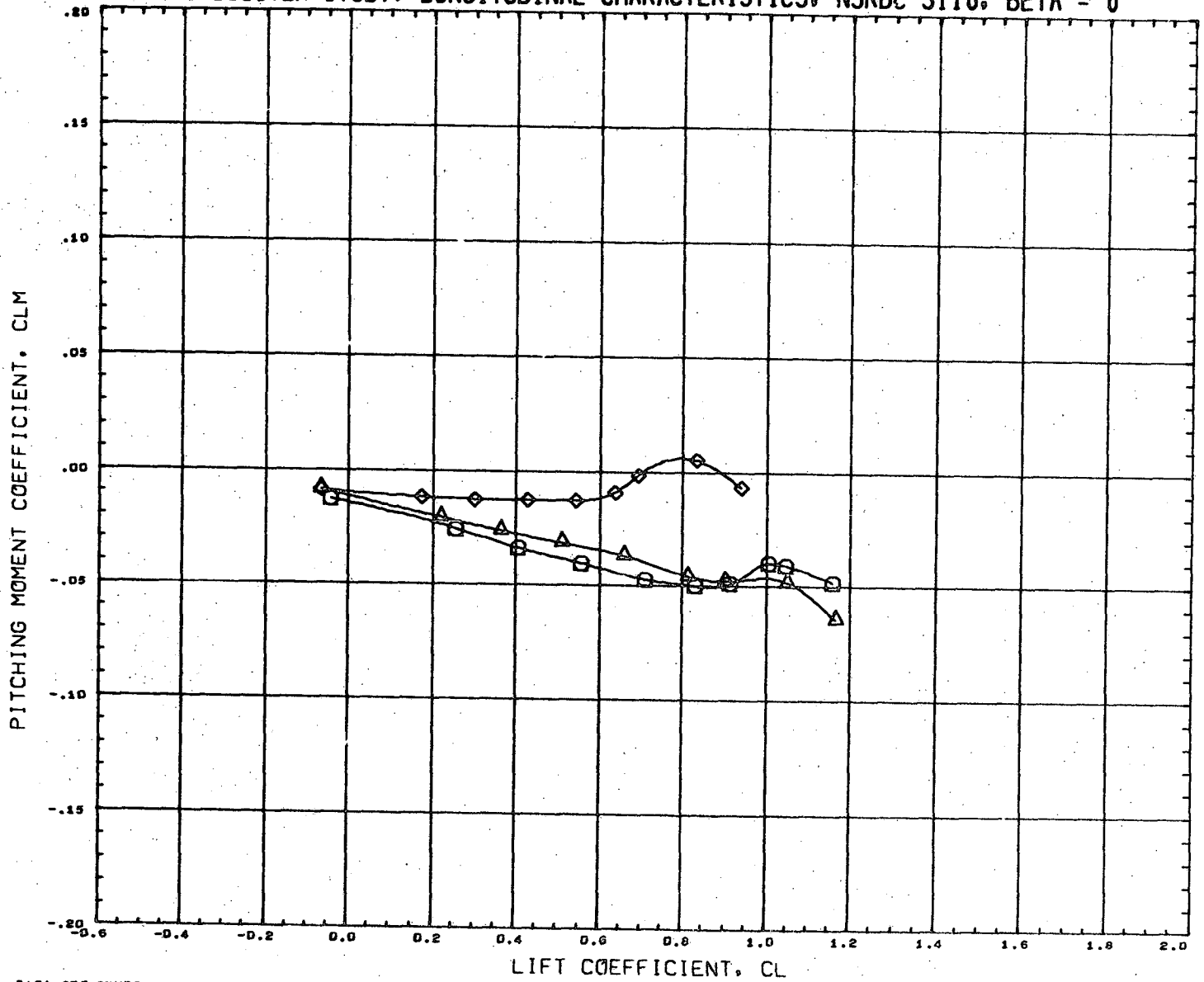
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2041)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2233)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2293)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

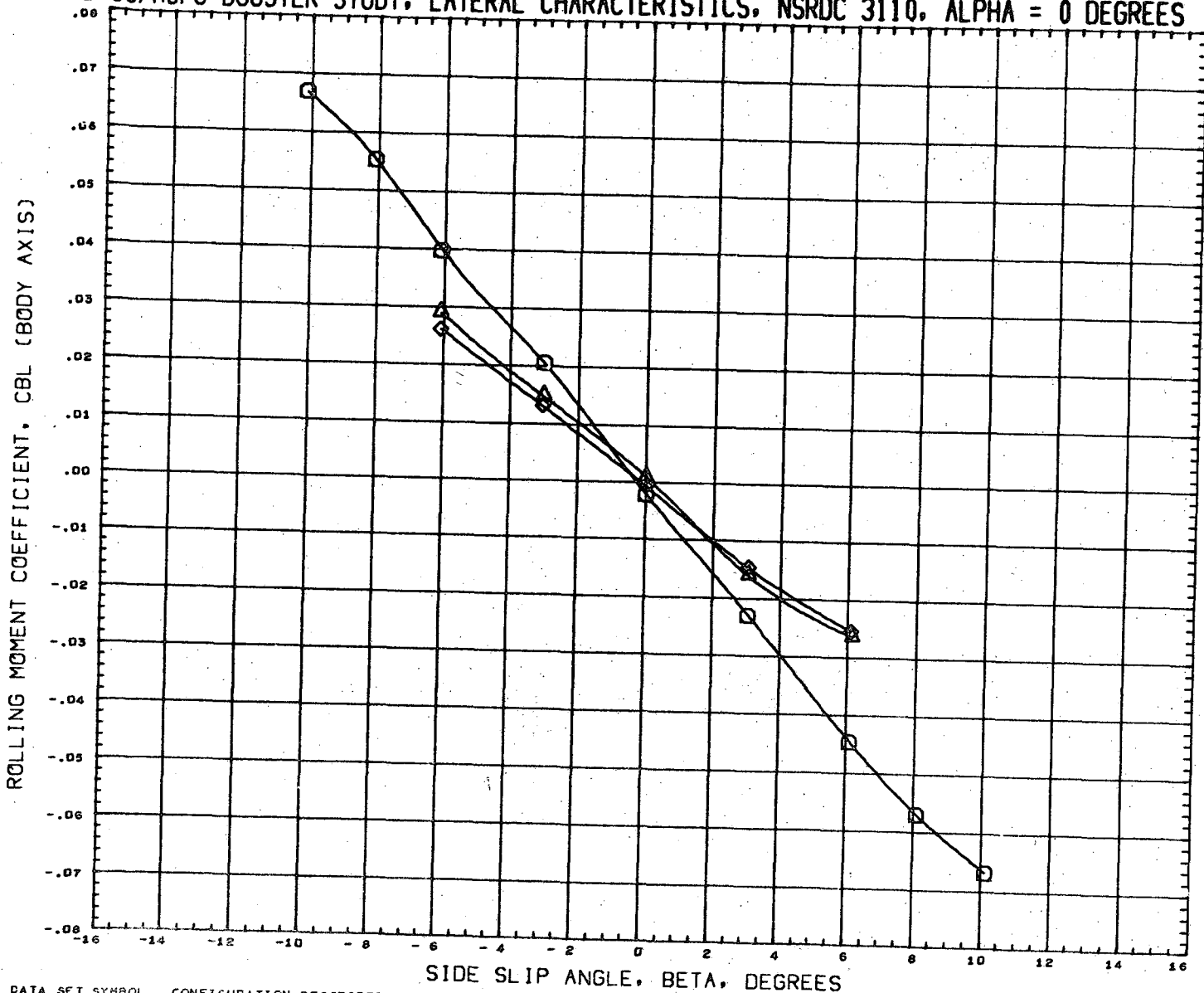
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2041)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2253)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	LREF	41.4360 INCHES
(RN2293)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
 (RN2042) □
 (RN2234) △
 (RN2290) ◇

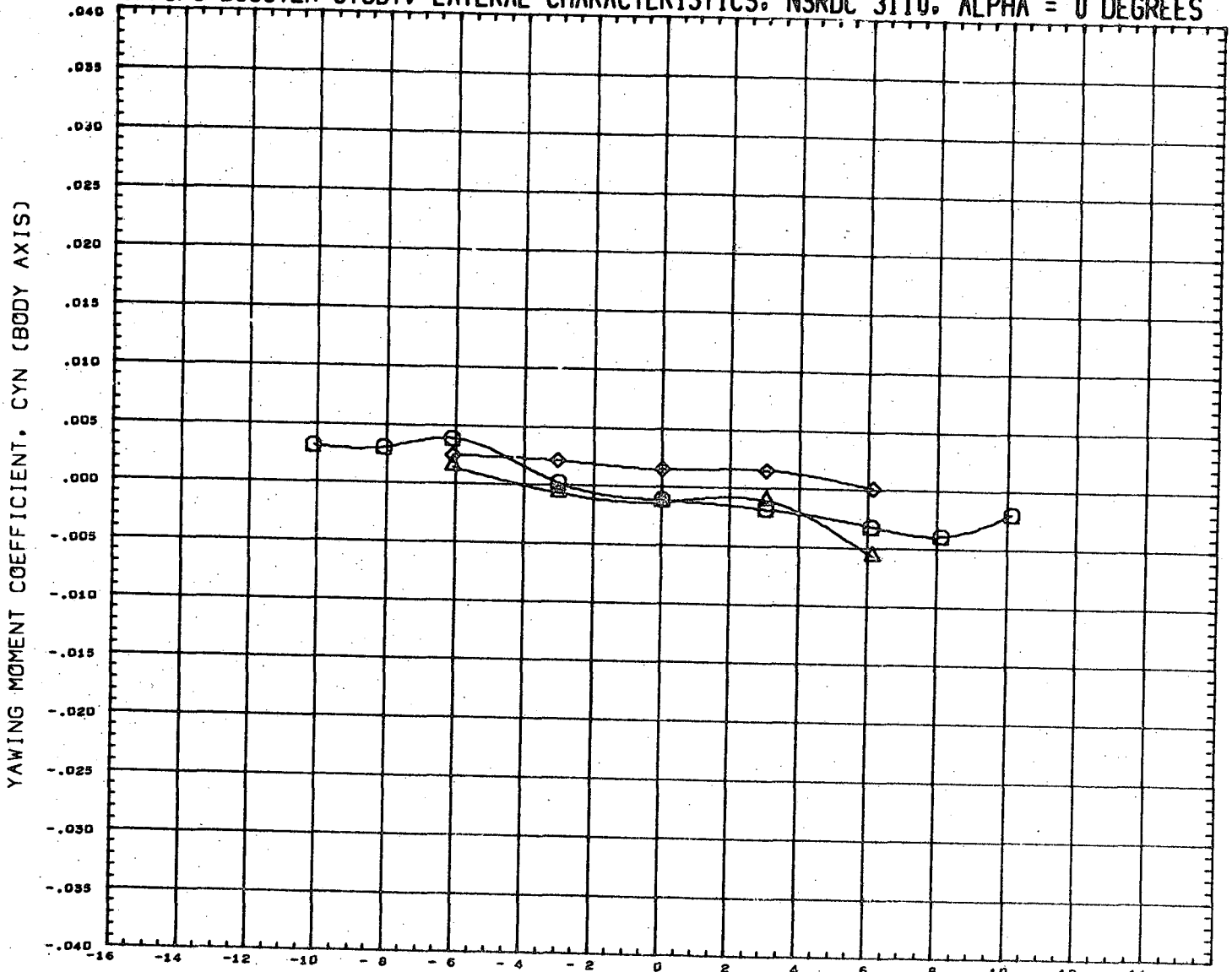
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION
 SREF 1.3550 SQ.FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCNT

MACH 0.379

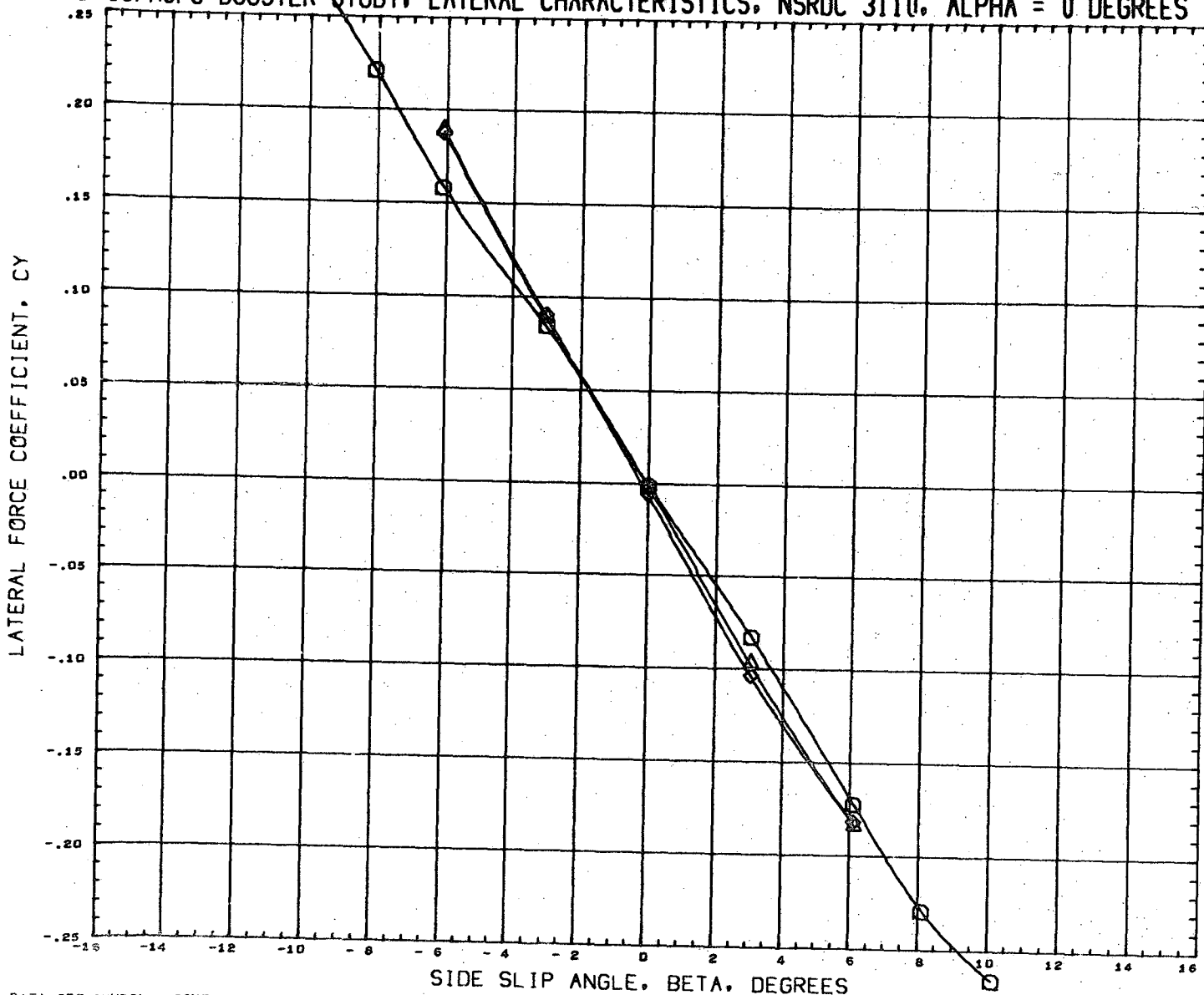
LMSC/MSFC BOOSTER STUDY. LATERAL CHARACTERISTICS. NSRDC 3110. ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2042)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2234)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2294)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.379

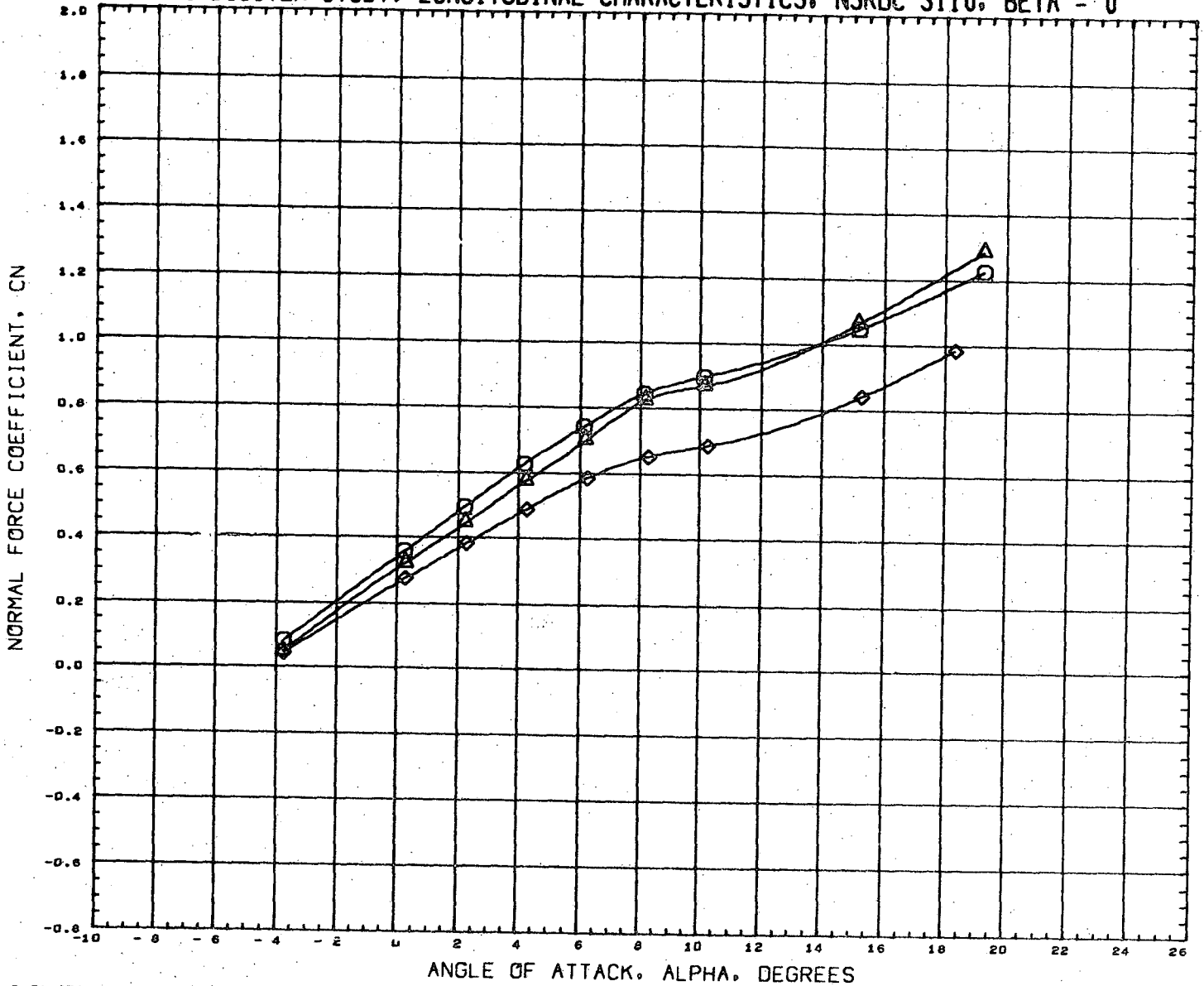
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2042)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2234)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2294)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

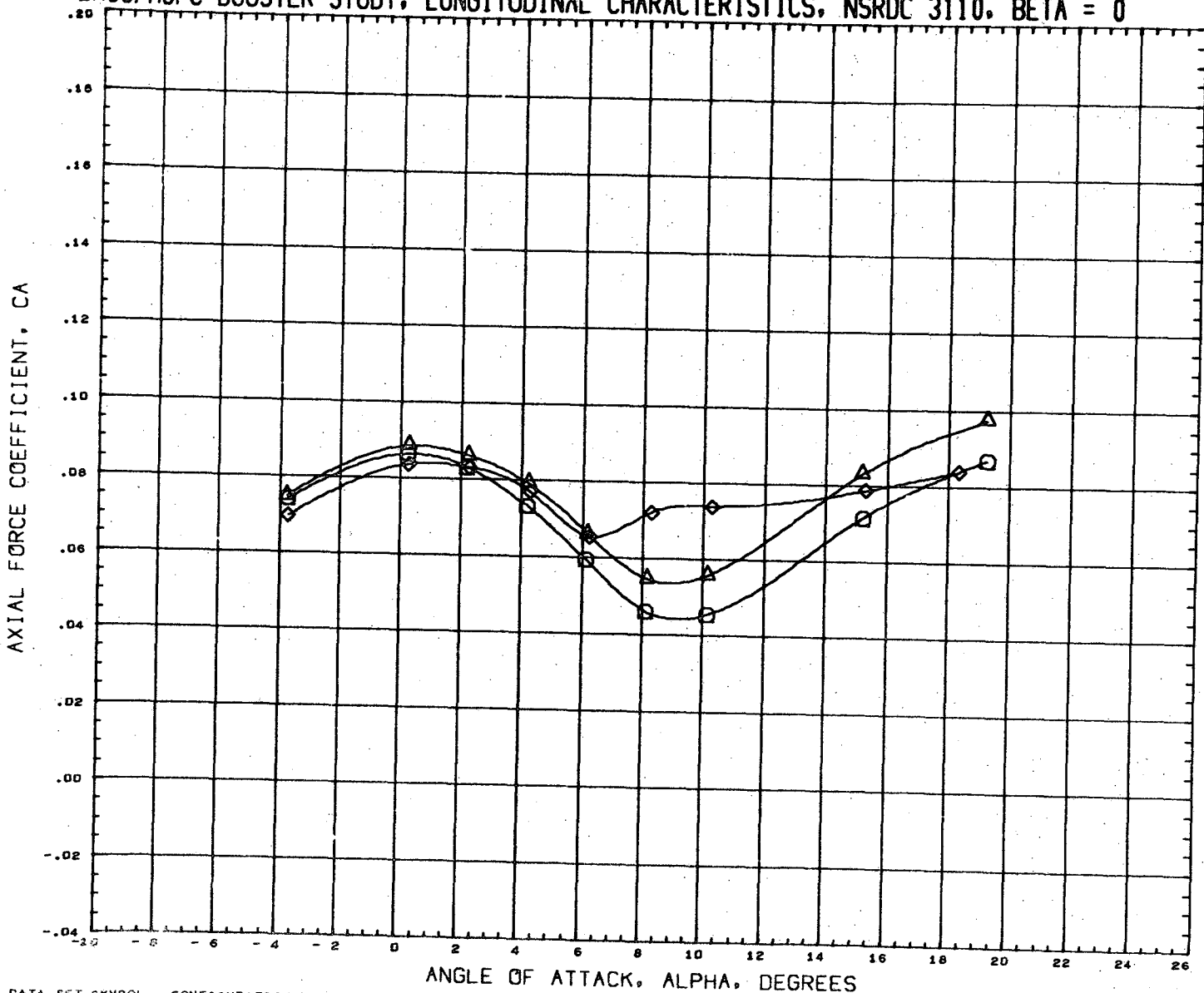
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2045)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2237)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2297)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2045) ○
 (RN2237) △
 (RN2297) ◇

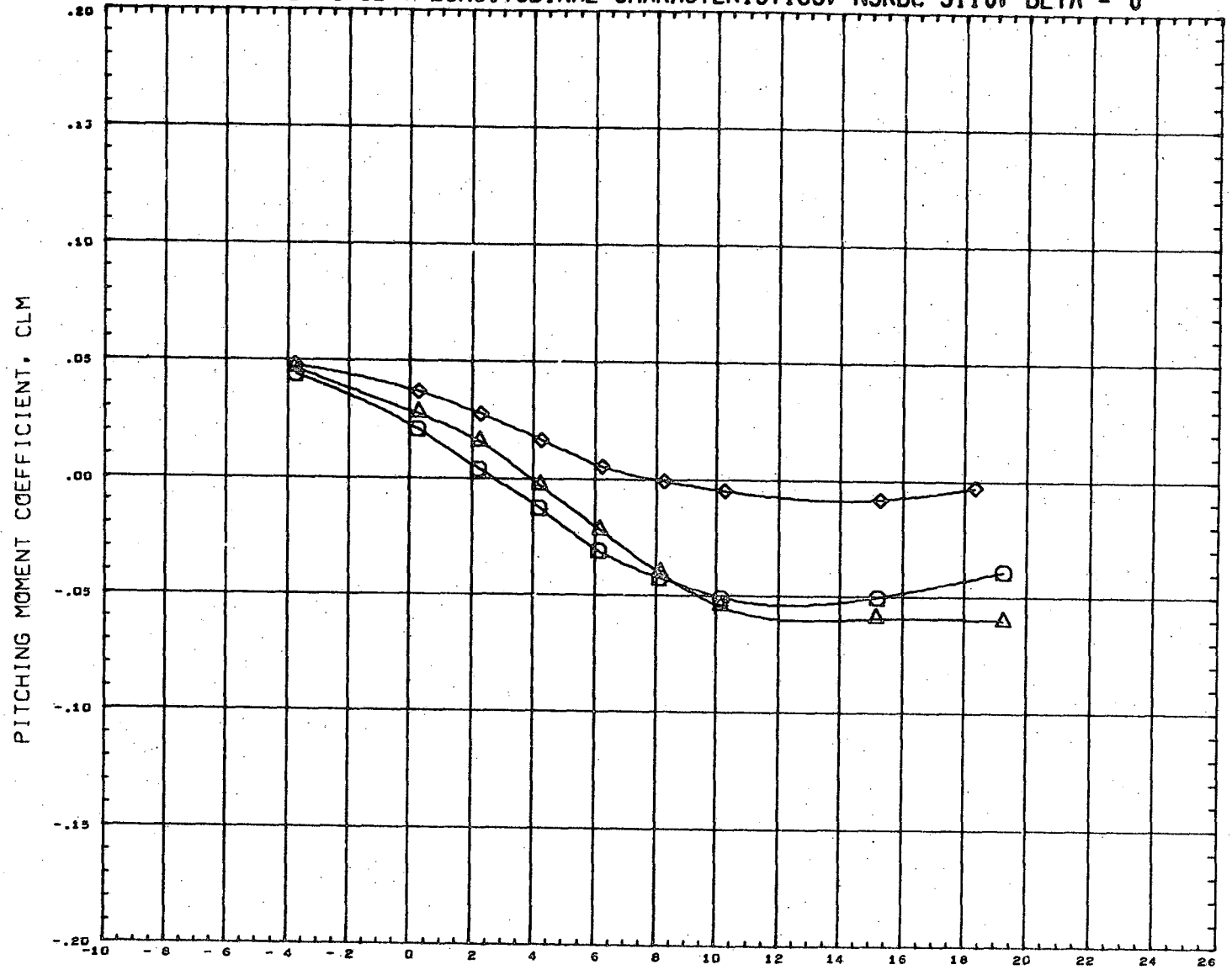
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC CNDPOS INCIDW WNGPOS
 15.000 2.000 3.000 1.000
 15.000 2.000 3.000 1.000
 15.000 2.000 3.000 1.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.382

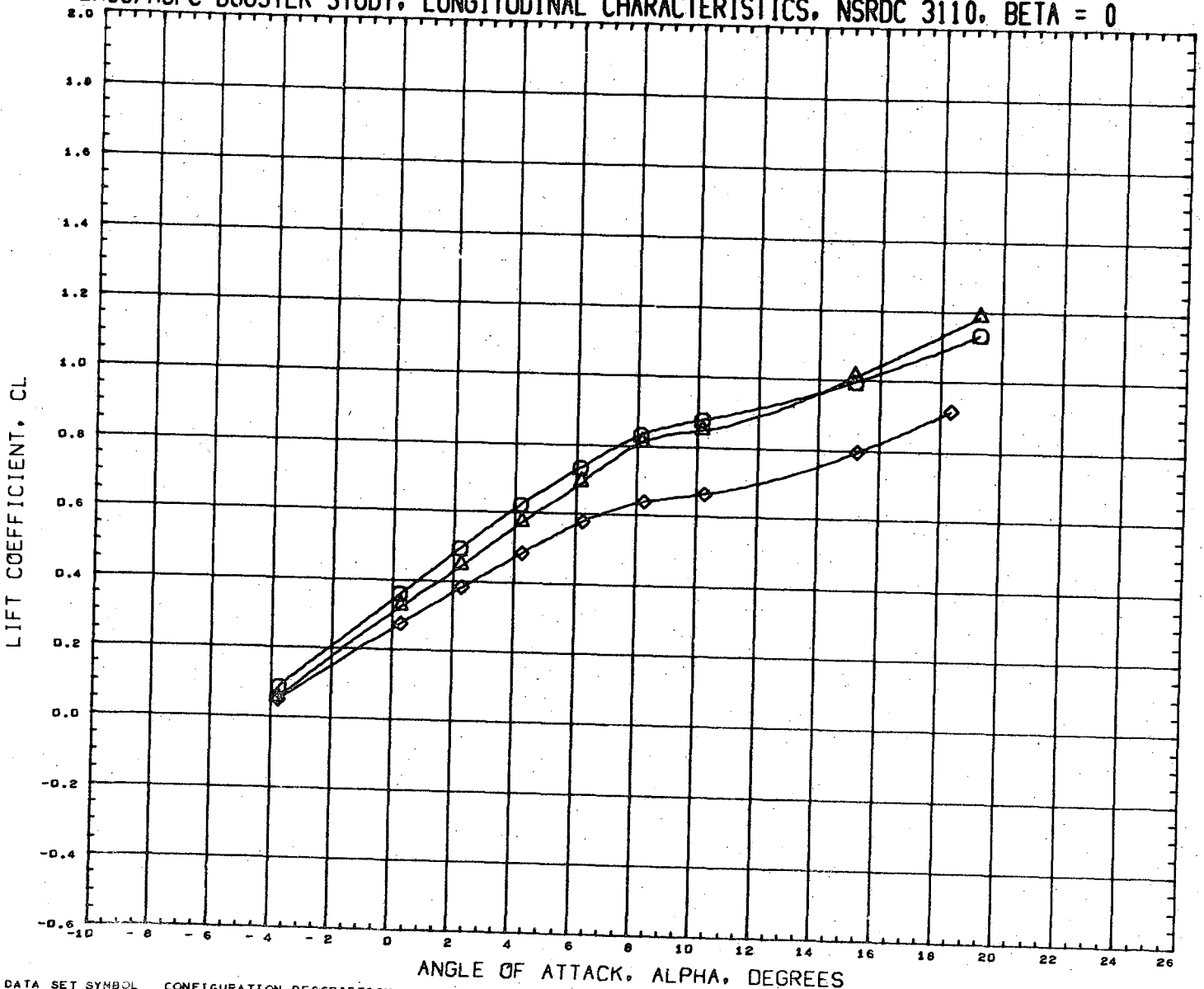
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2045)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2237)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2297)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

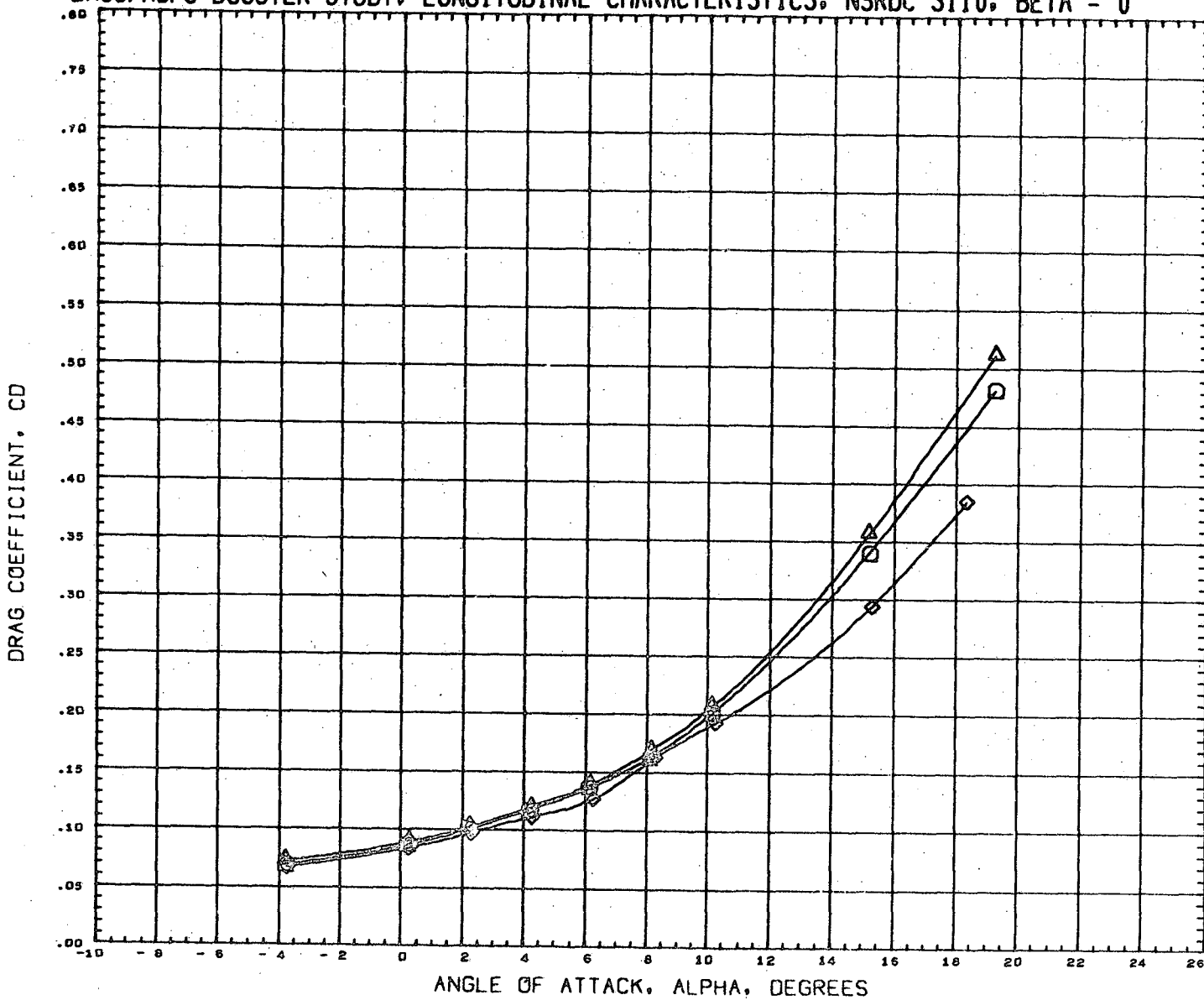
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2045) ○	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2237) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2297) ◇	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

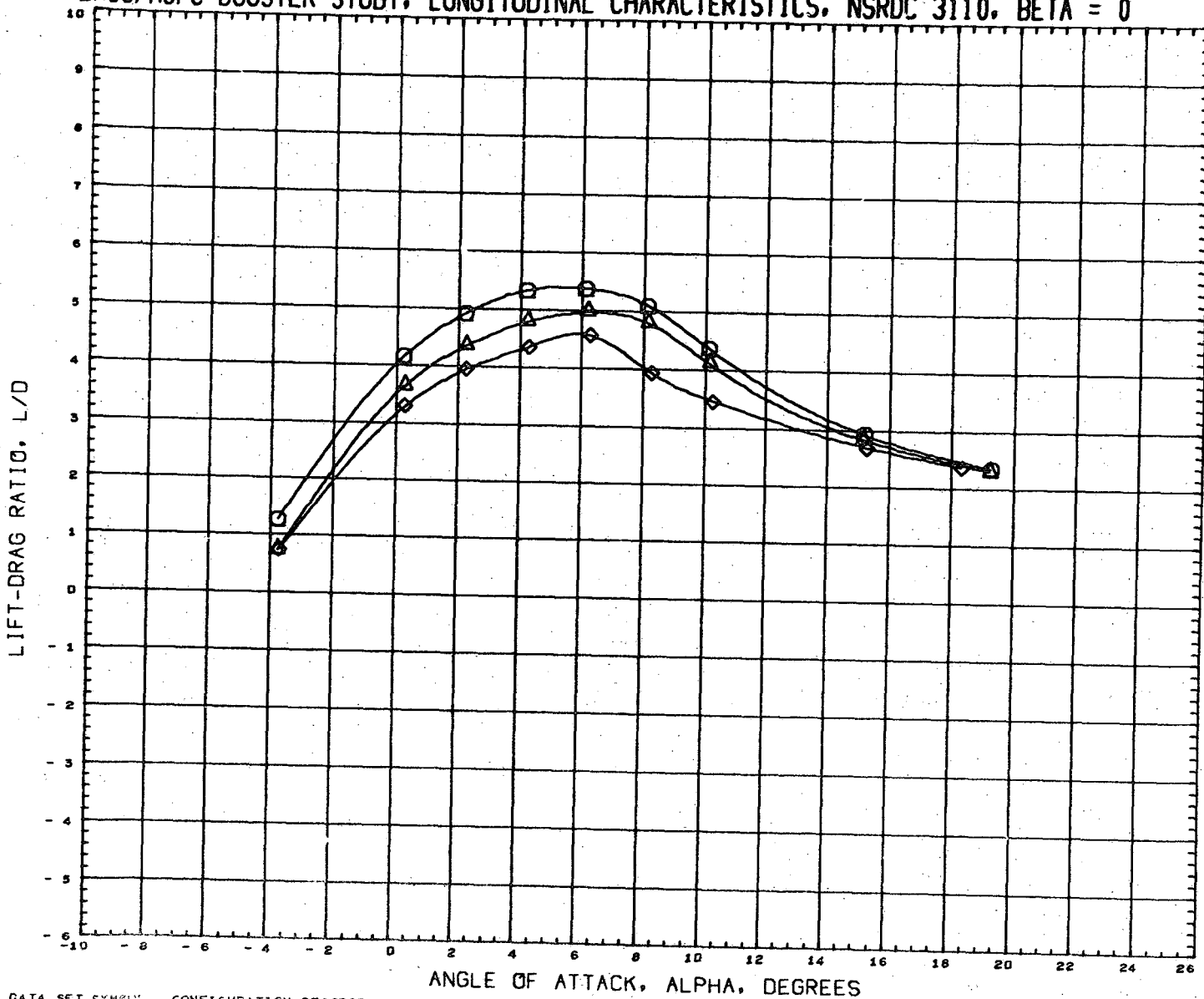
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNCPOS	REFERENCE INFORMATION
(RN2045)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2237)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2297)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

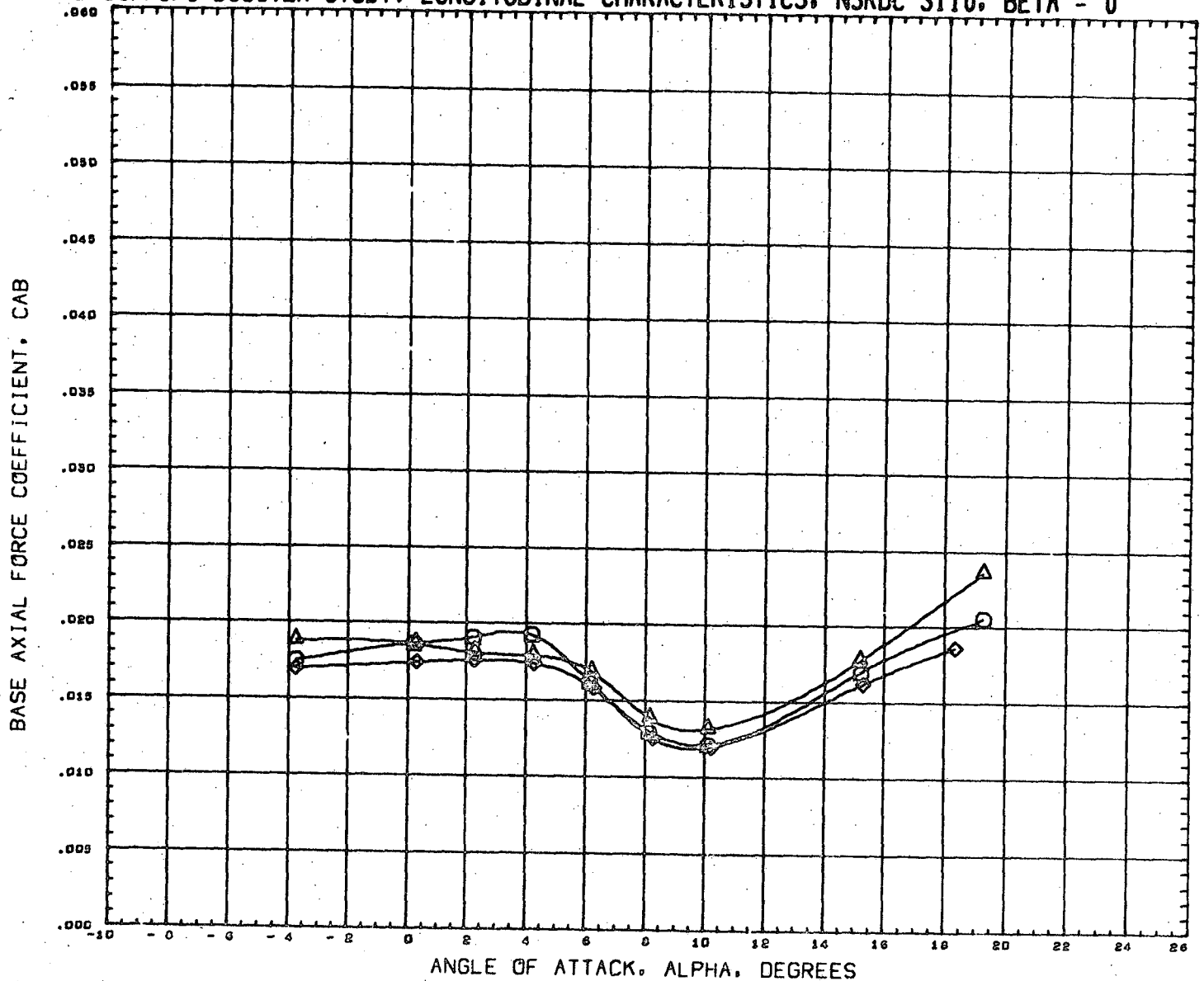
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2045)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2237)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2297)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.302

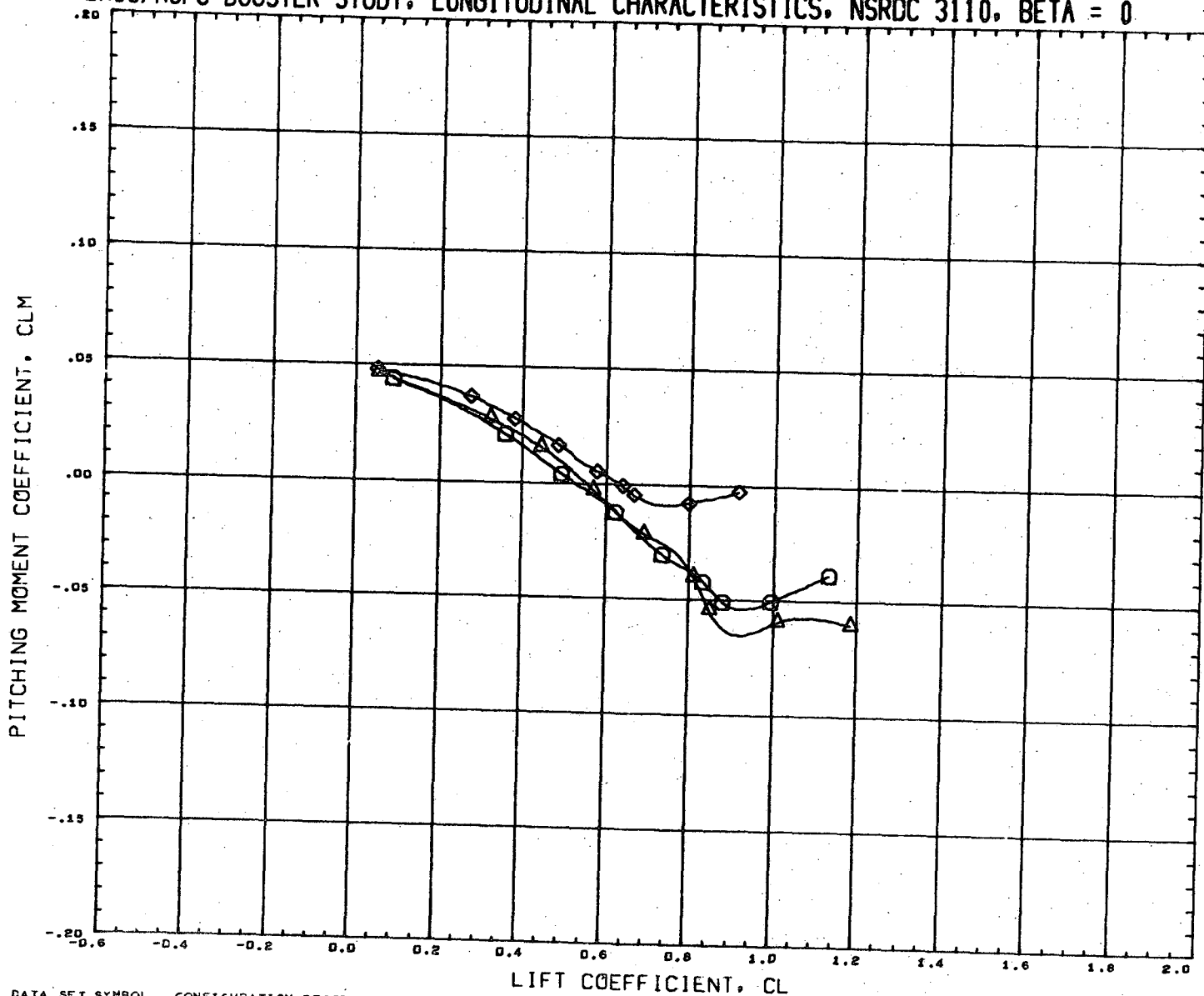
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2045)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2237)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2297)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.362

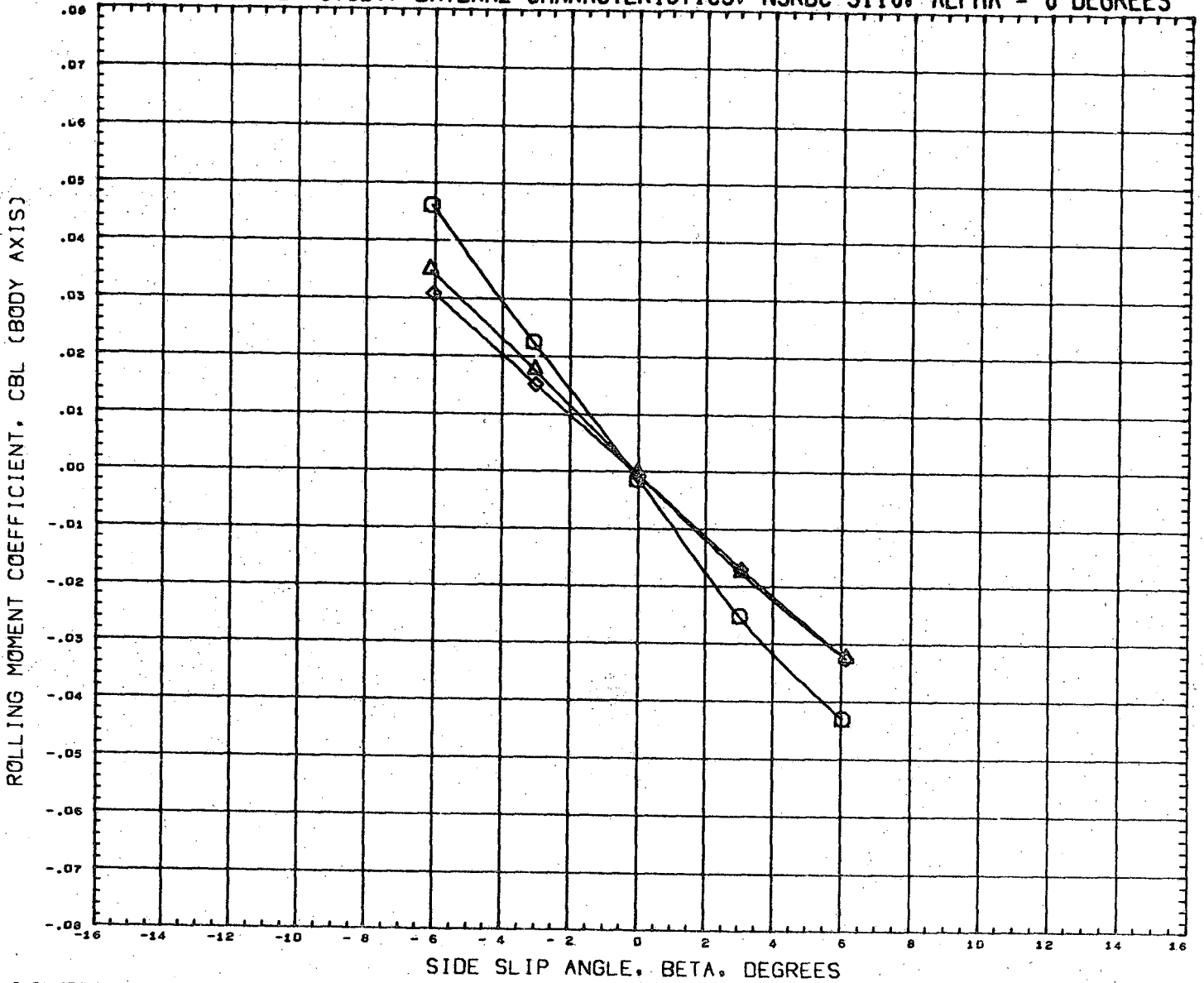
LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2045)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2237)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2297)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YNRP 0.0000 INCHES
						ZNRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

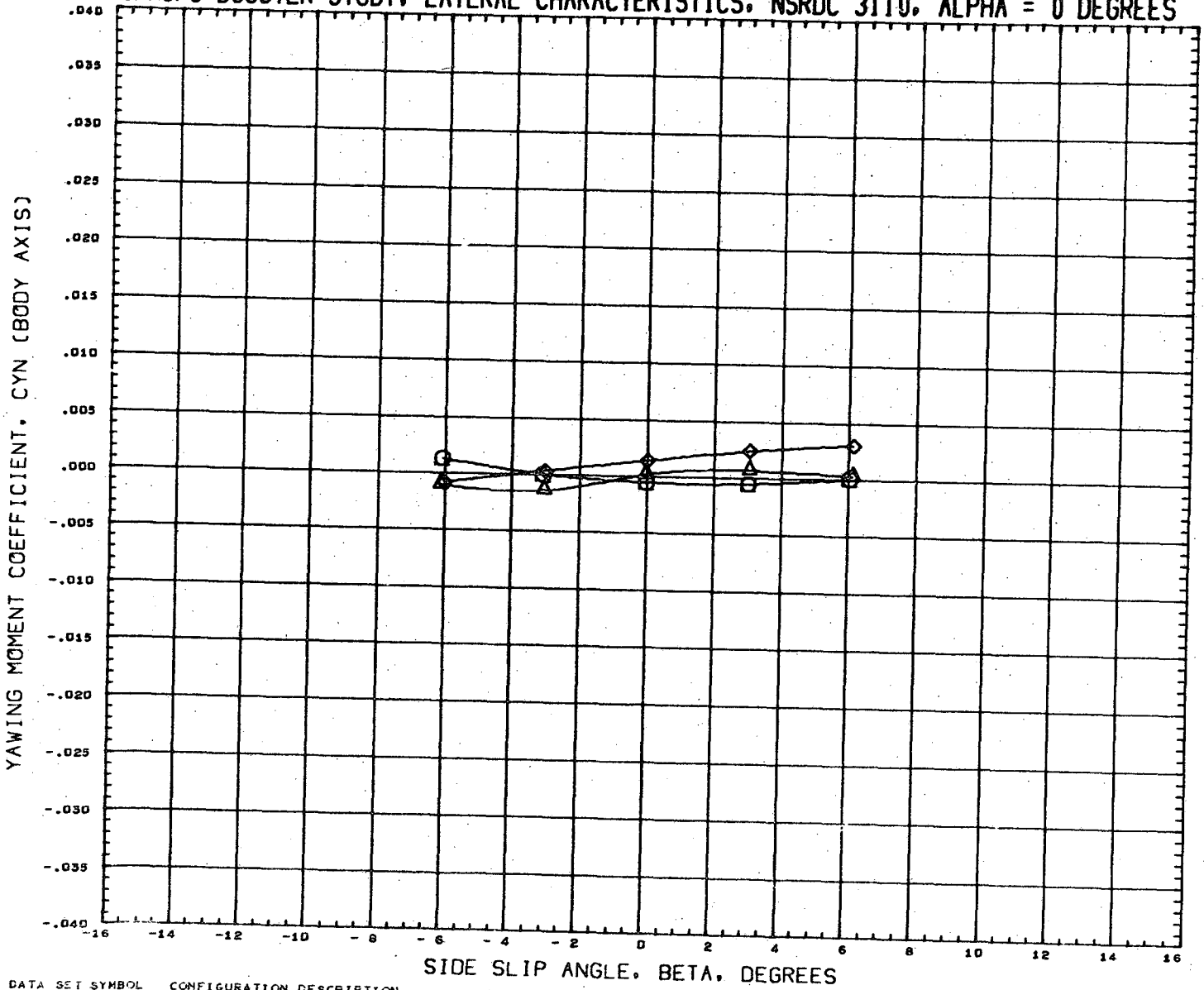
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2046)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2238)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2298)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

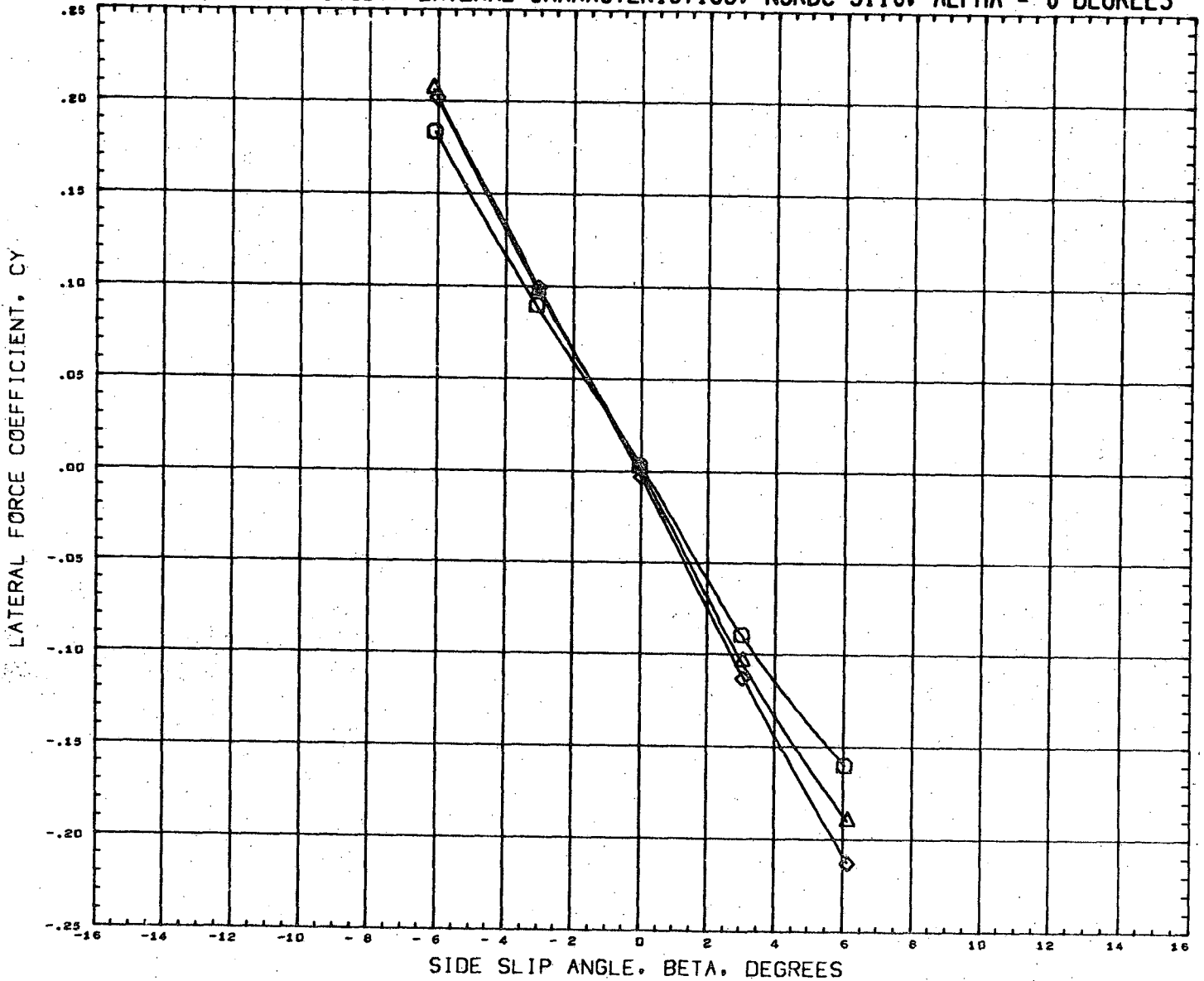
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2046)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2238)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2298)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

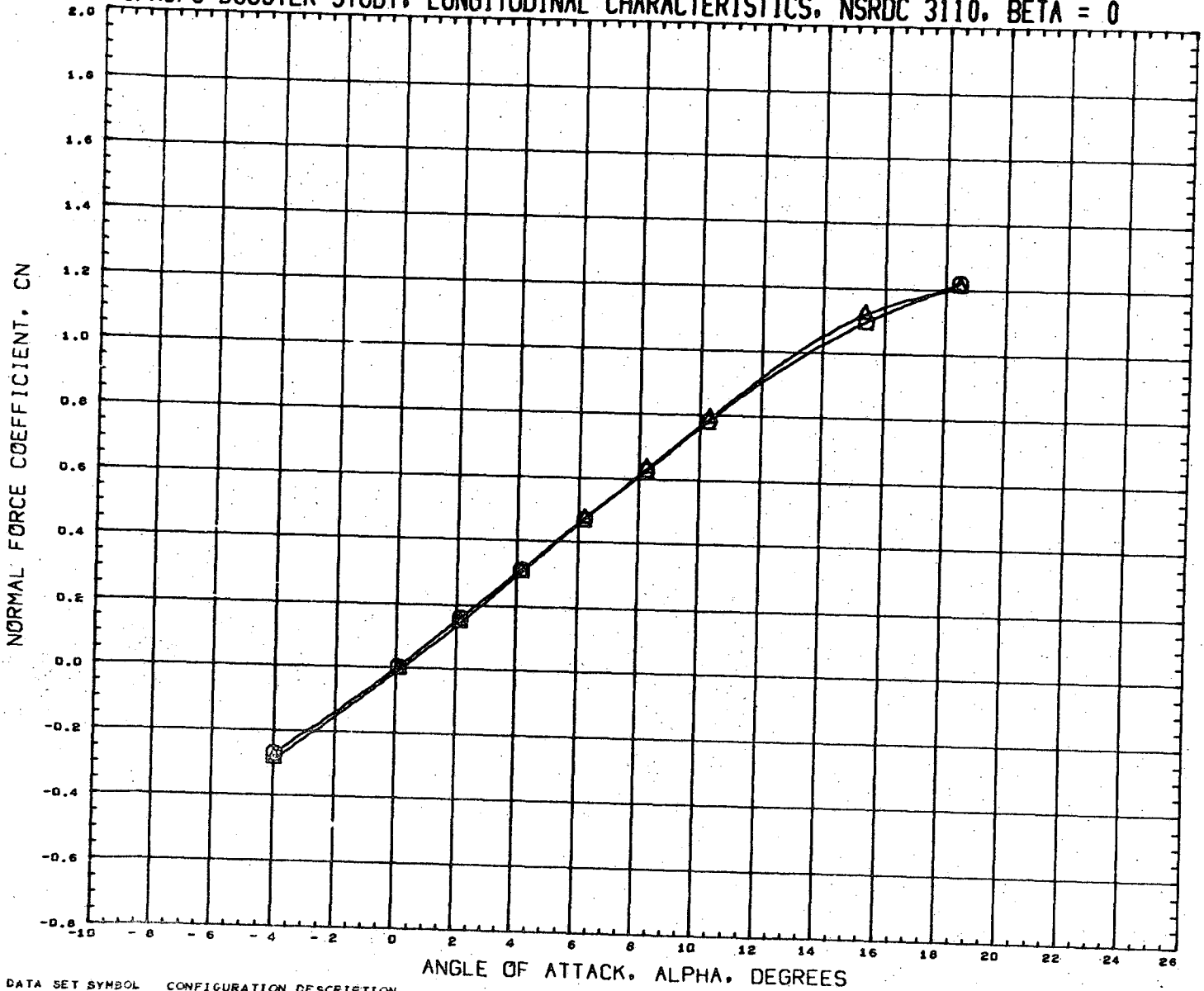
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGFOS	REFERENCE INFORMATION
(RN2046)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2238)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
(RN2298)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.580

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



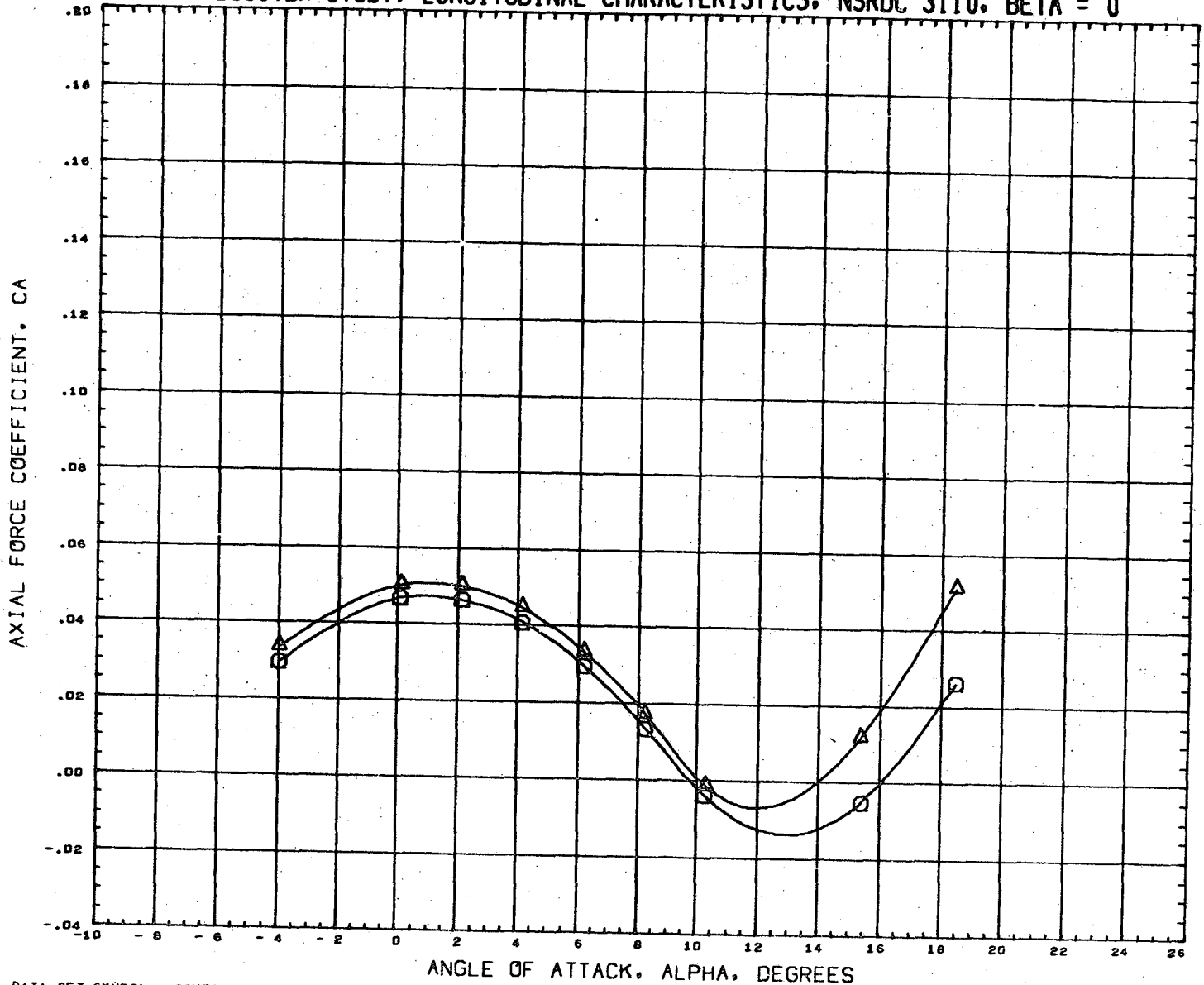
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2017)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2209)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	2.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.382

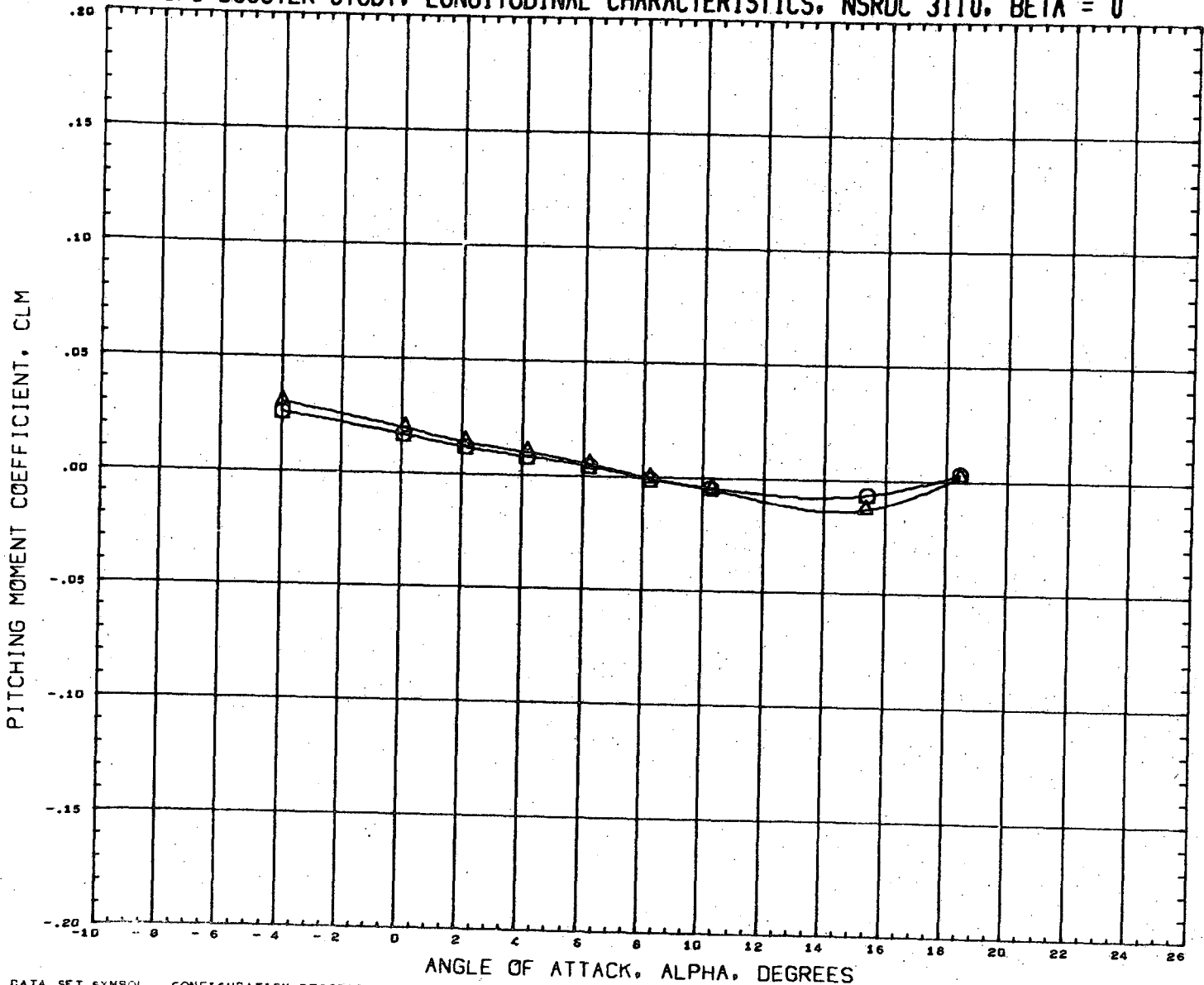
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2017)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2209)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

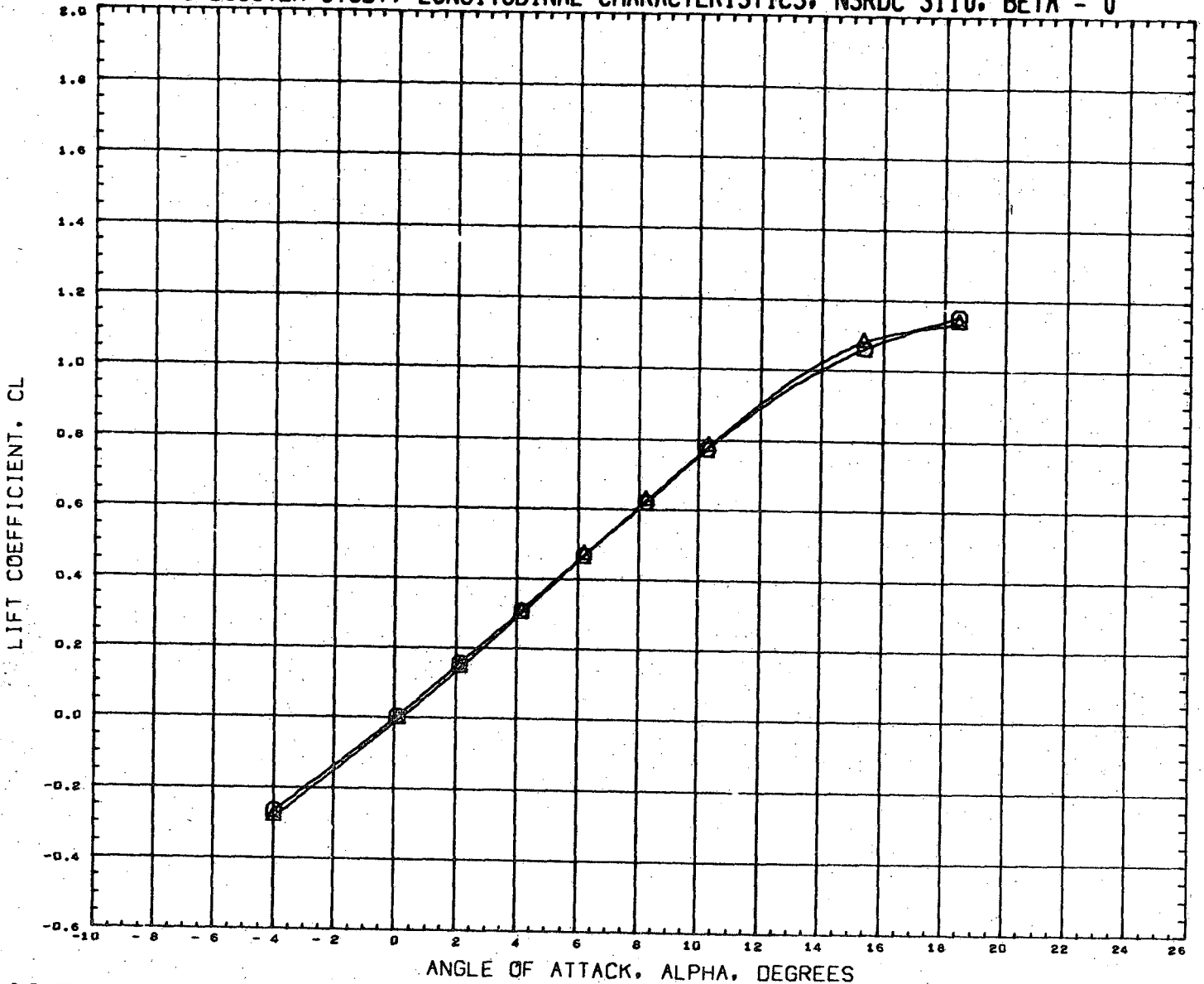
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS	REFERENCE INFORMATION
(RN2017)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2209)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.302

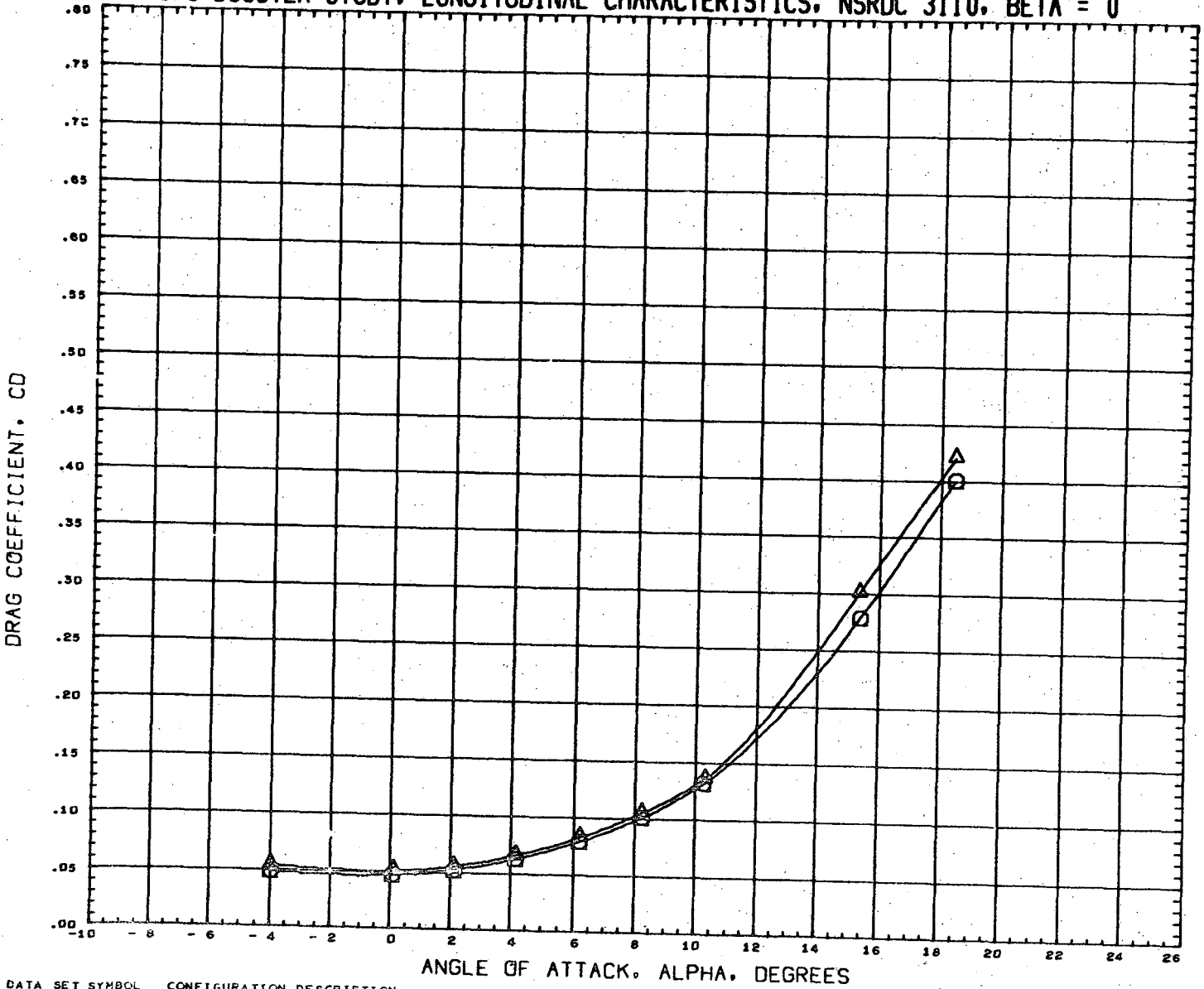
LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2D17)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2D09)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2D17)
(RN2209)



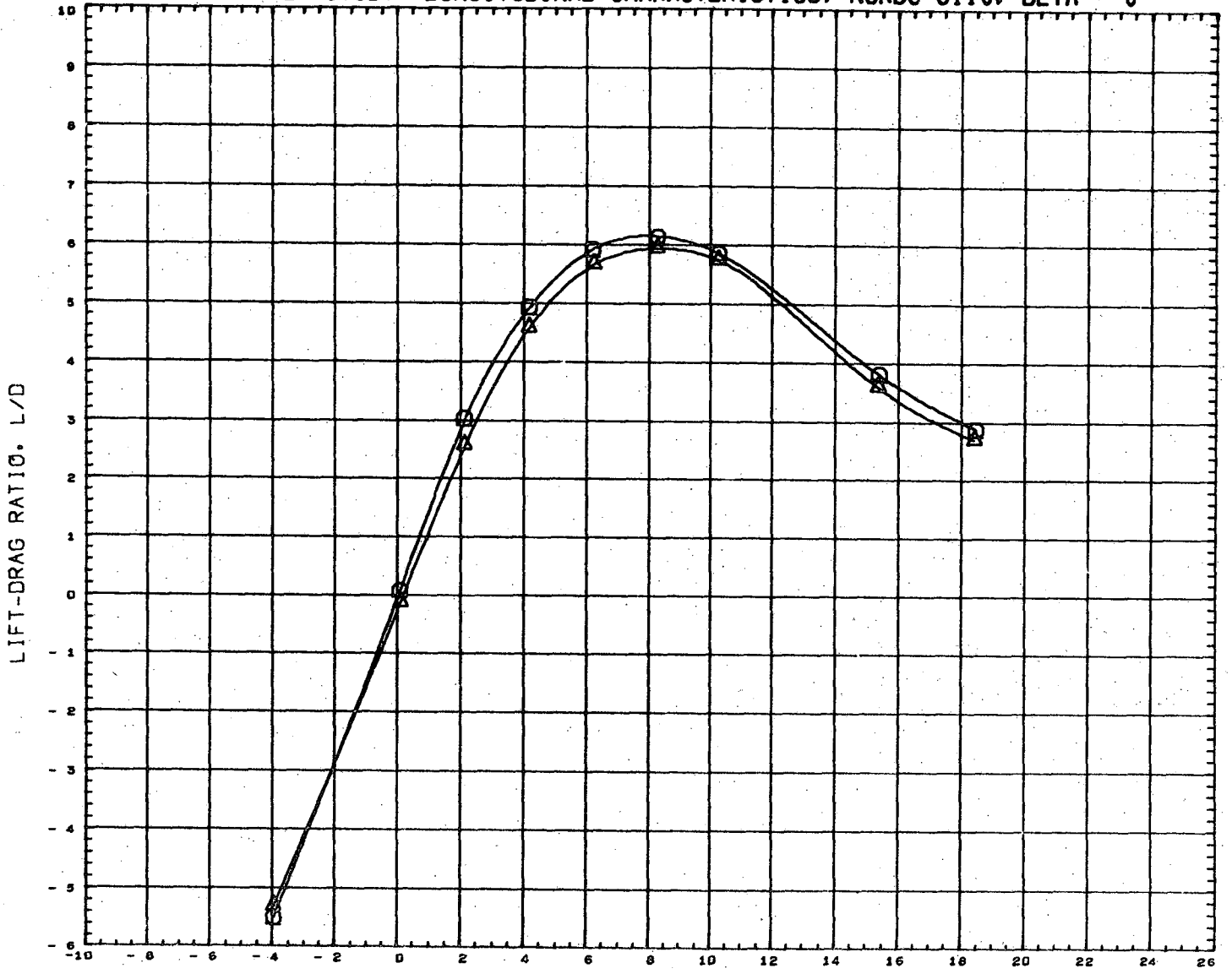
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGFOS
3.000	1.000	0.000	2.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

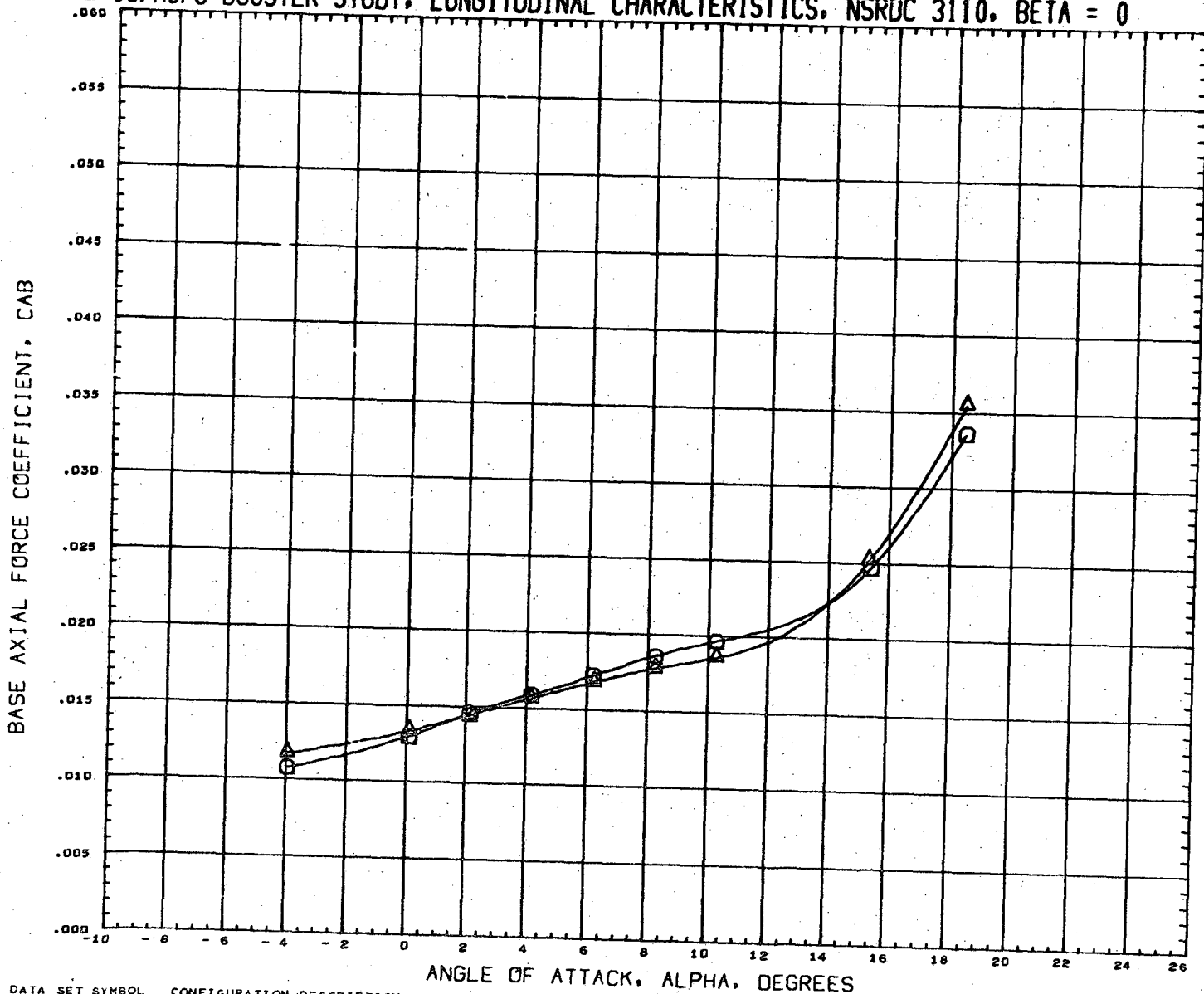


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2017)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	SREF	1.3550 SQ.FT.
(RN2209)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2017)
(RN2209)



CONFIGURATION DESCRIPTION

NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

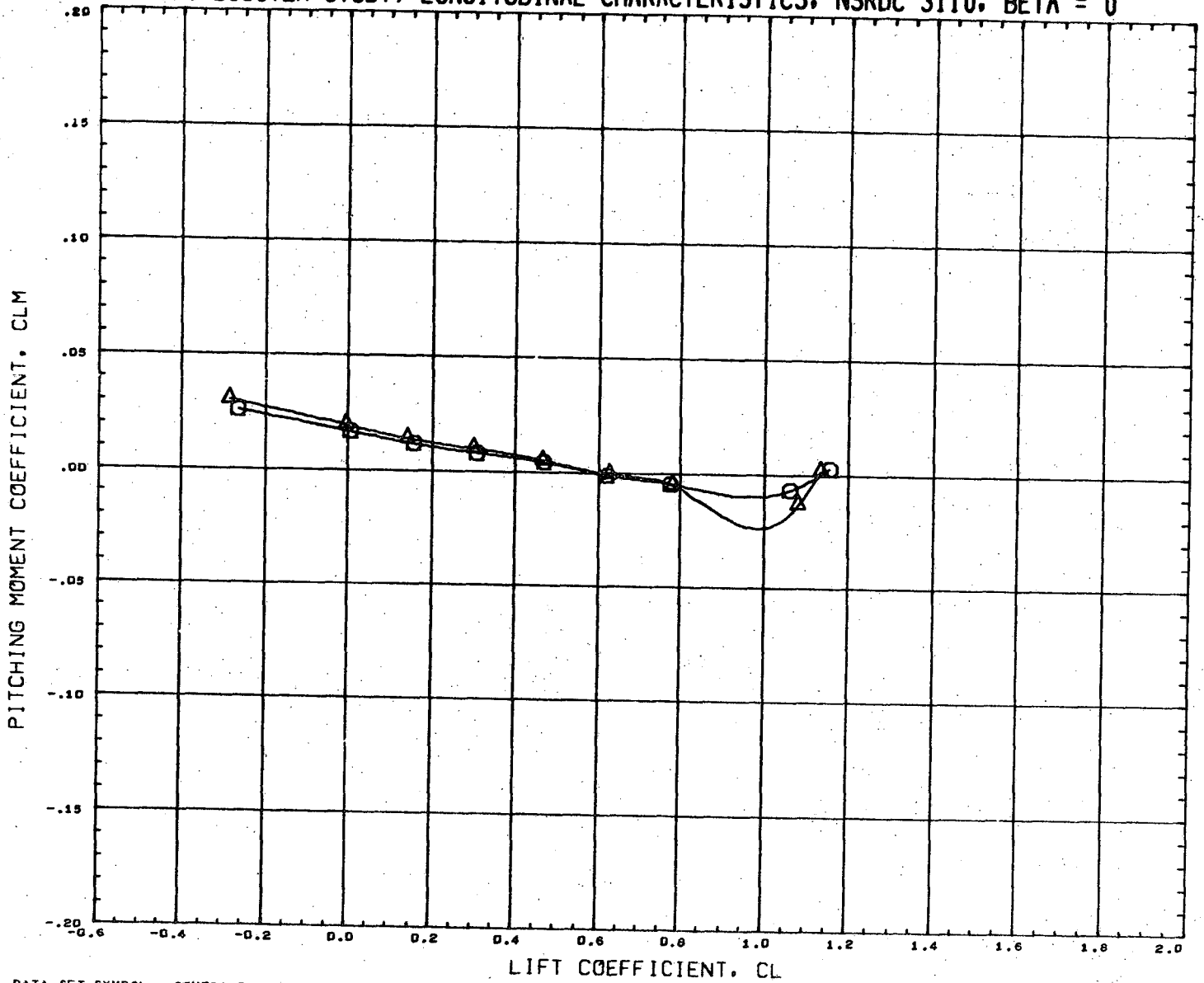
INCIDC	CNDPOS	INCIDW	WNGFOS
3.000	1.000	0.000	2.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2017)
(RN2209)



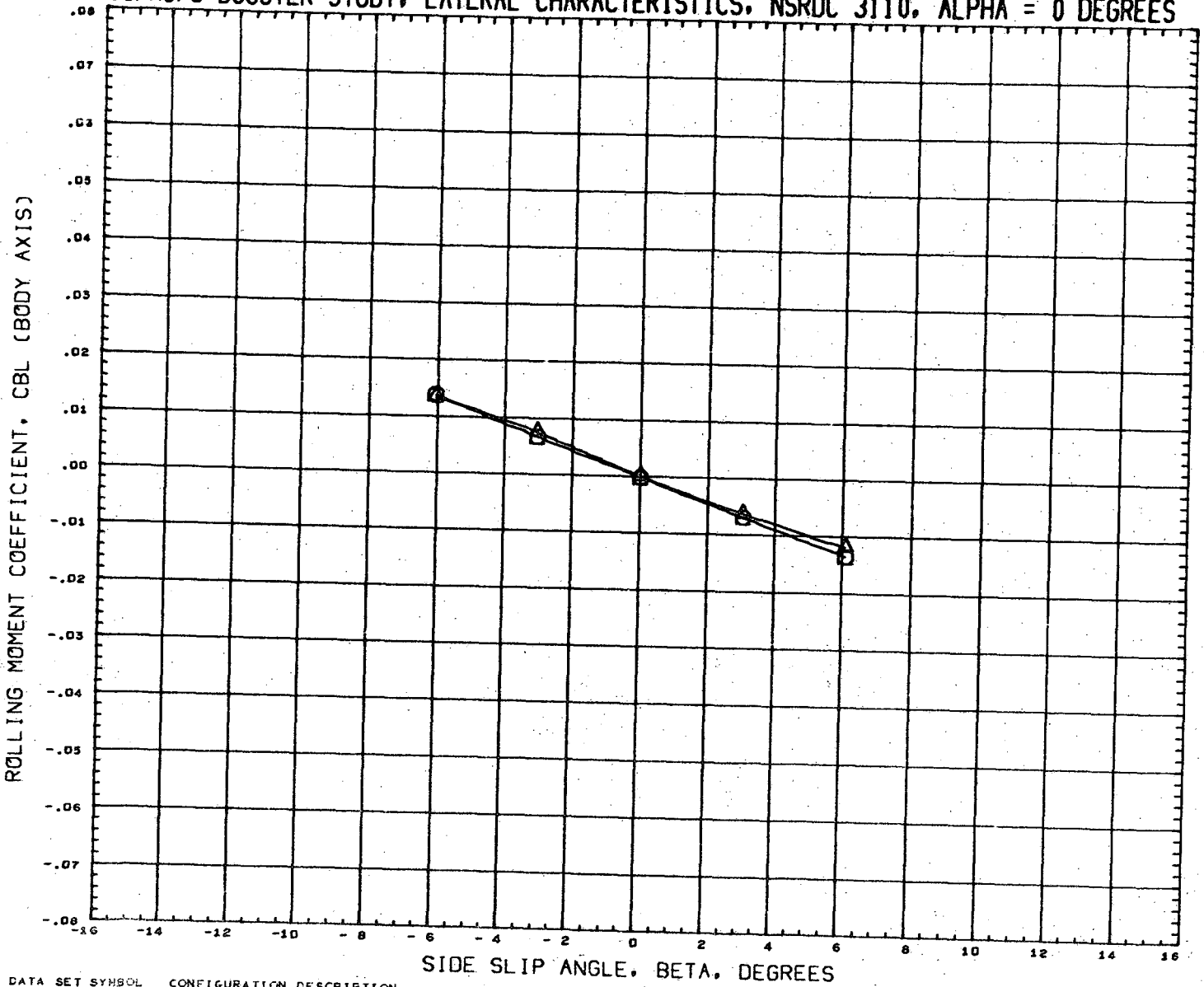
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	2.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.382

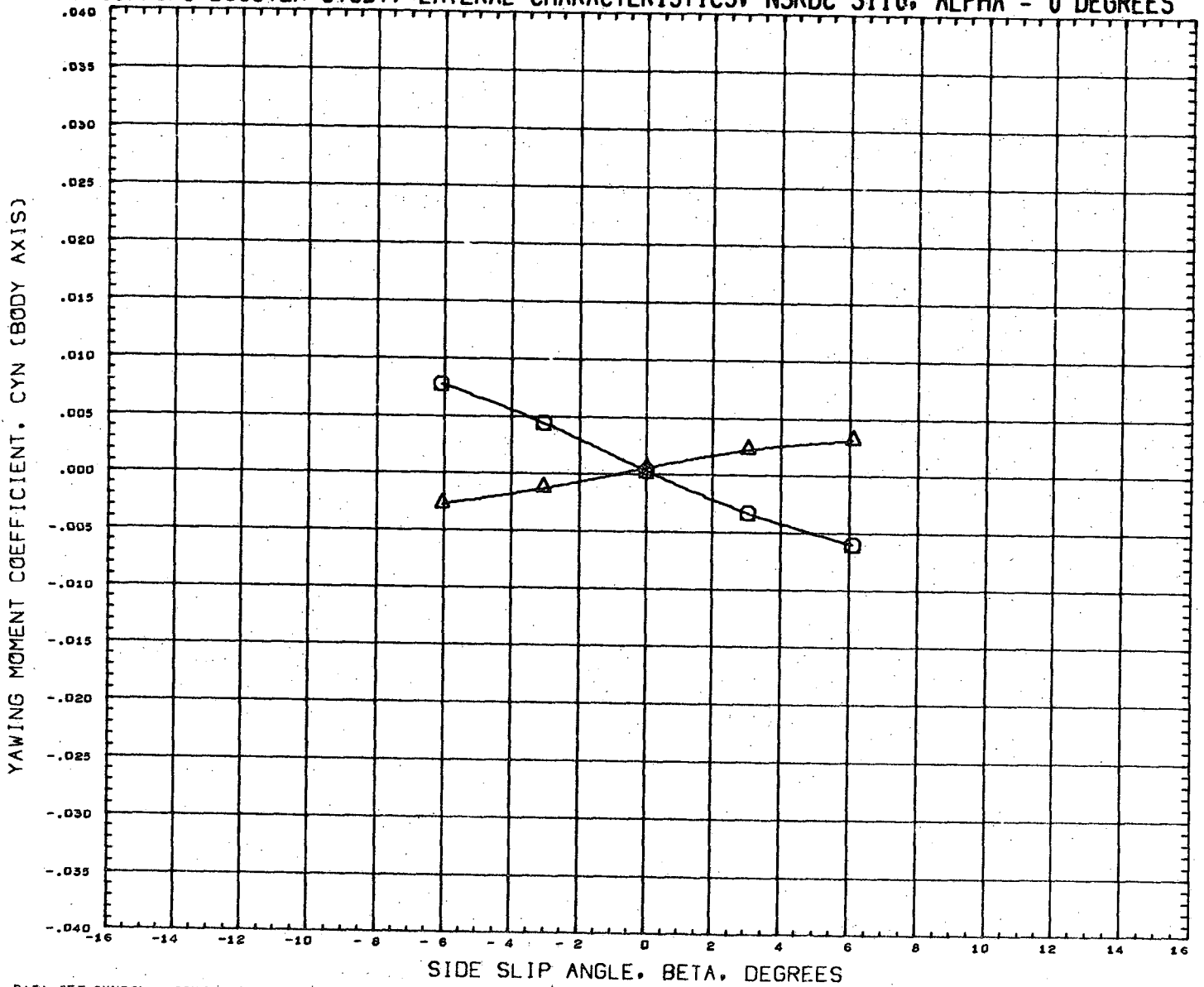
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2018)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2210)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

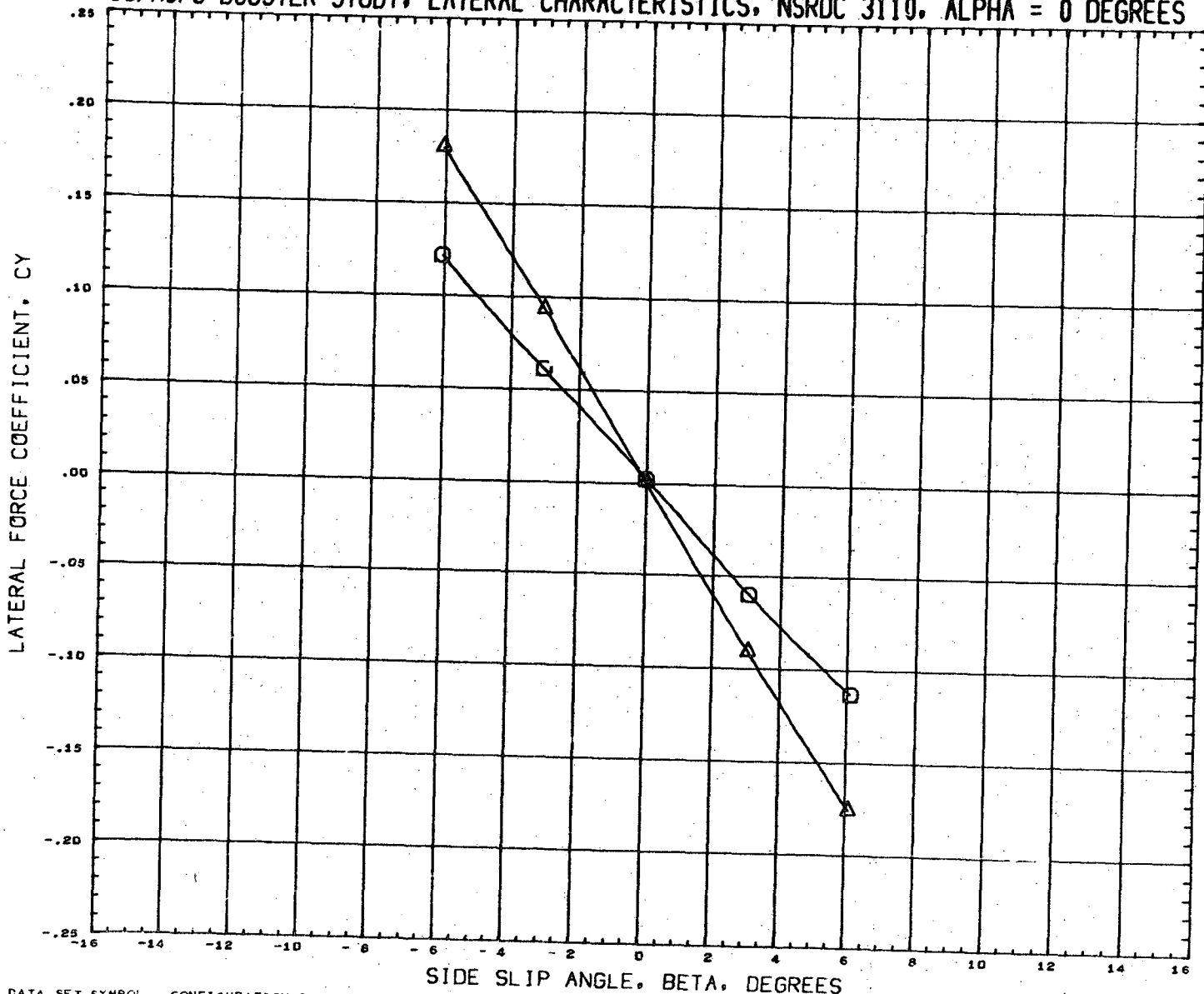
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2018)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2210)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.361

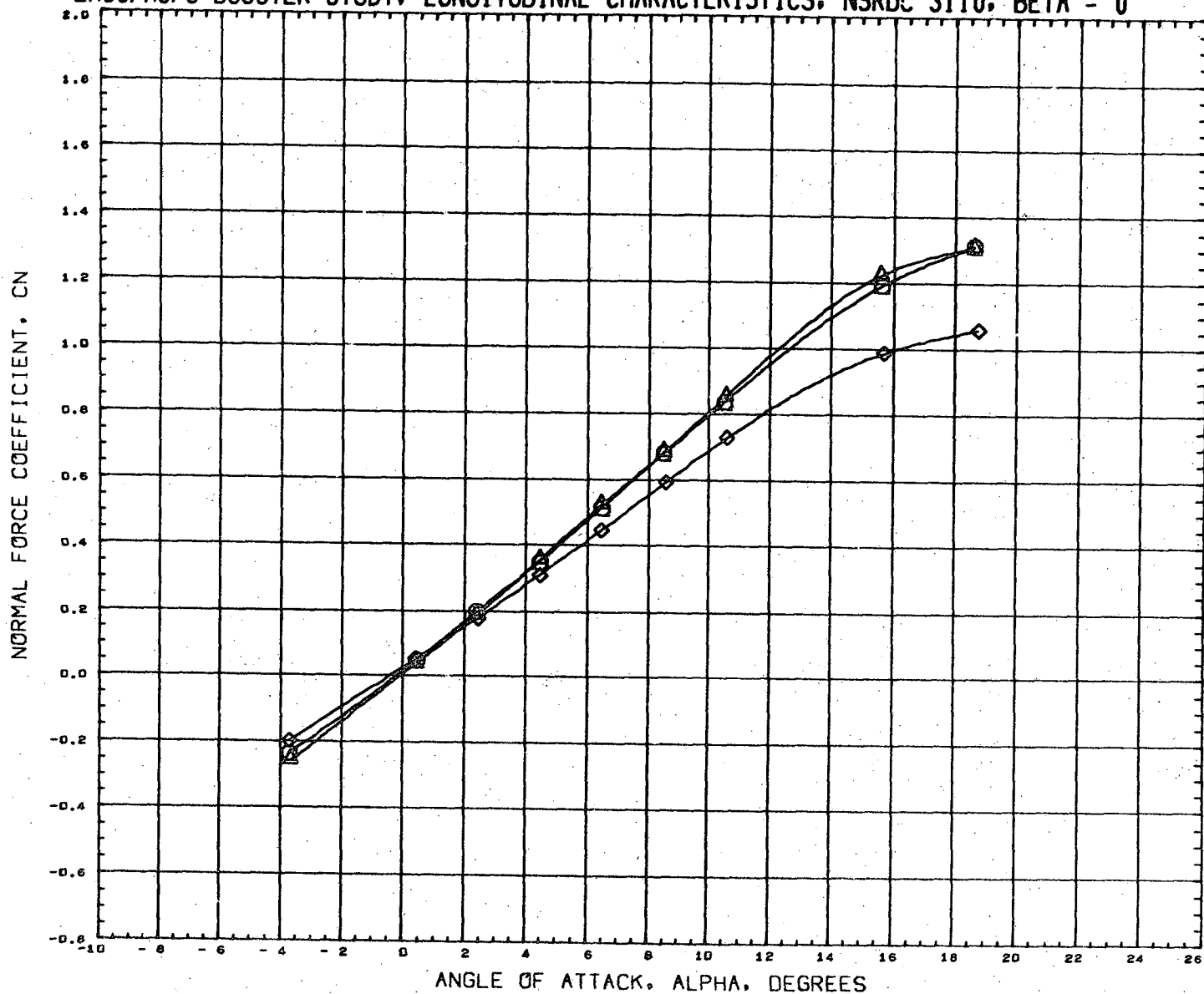
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2018)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2210)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

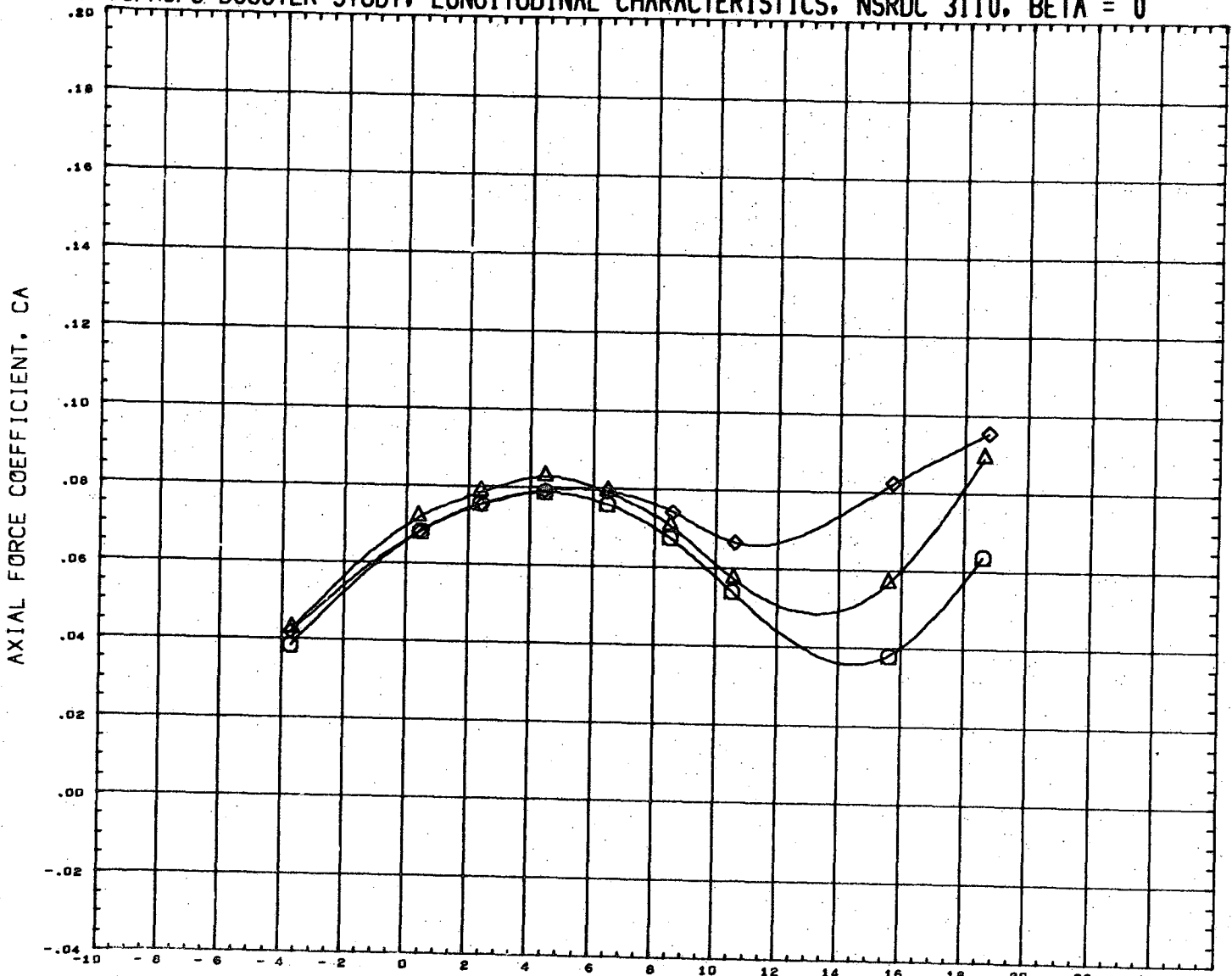
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2021)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	SREF	1.3550 SQ. FT.
(RN2213)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
(RN2273)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.382

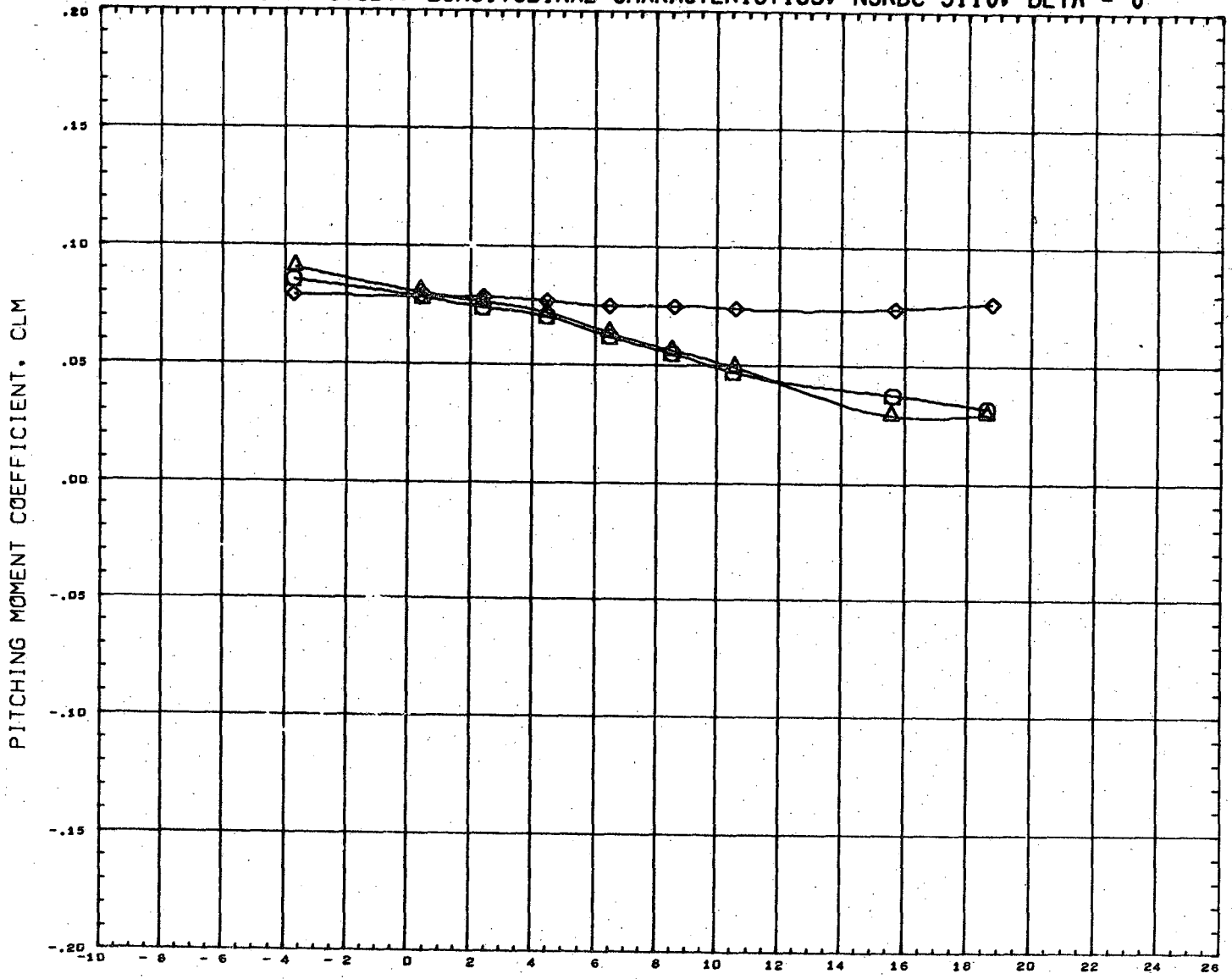
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2021)	NSRDC-311D,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2213)	NSRDC-311D,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
(RN2273)	NSRDC-311D,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

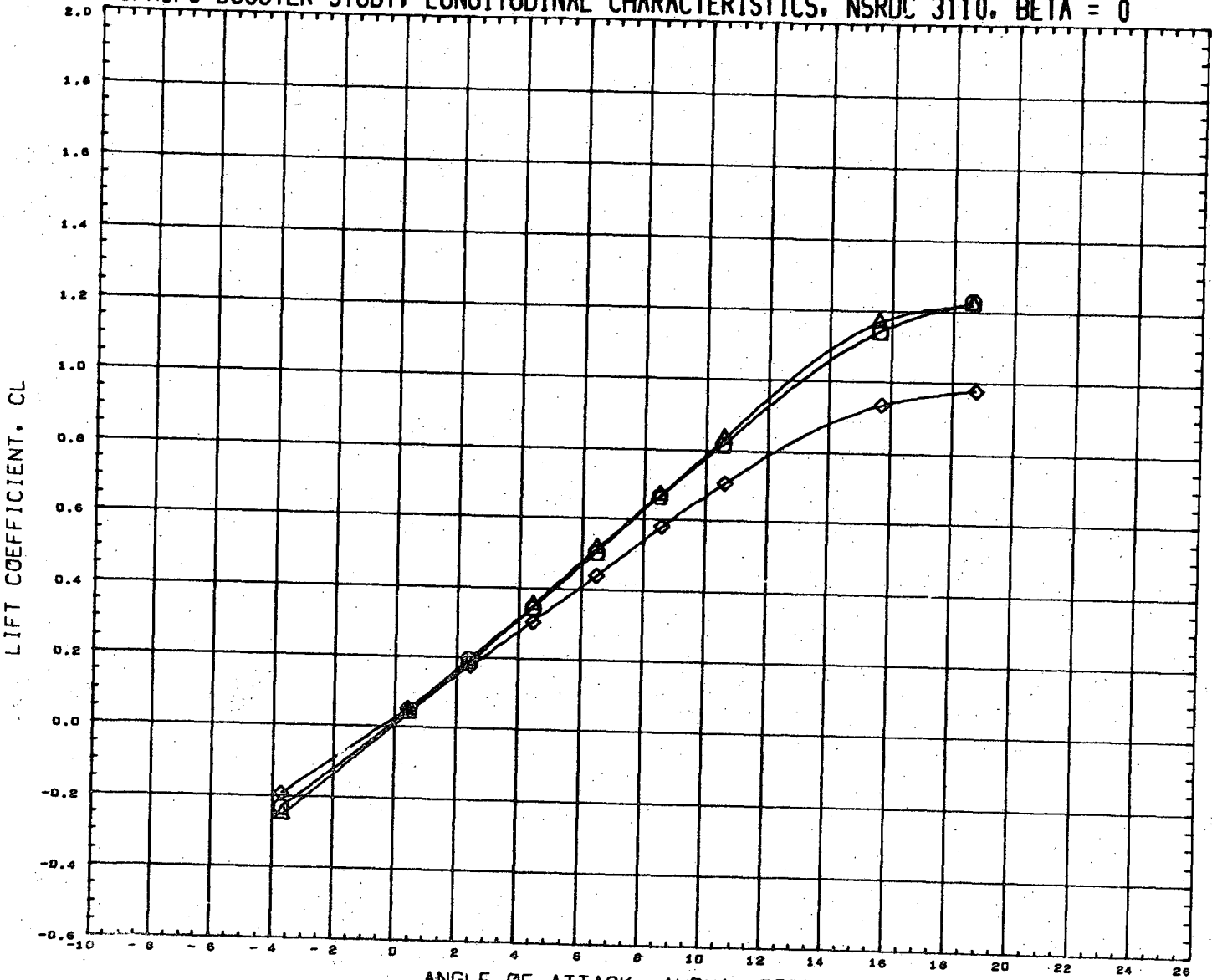
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2021)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2213)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
(RN2273)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

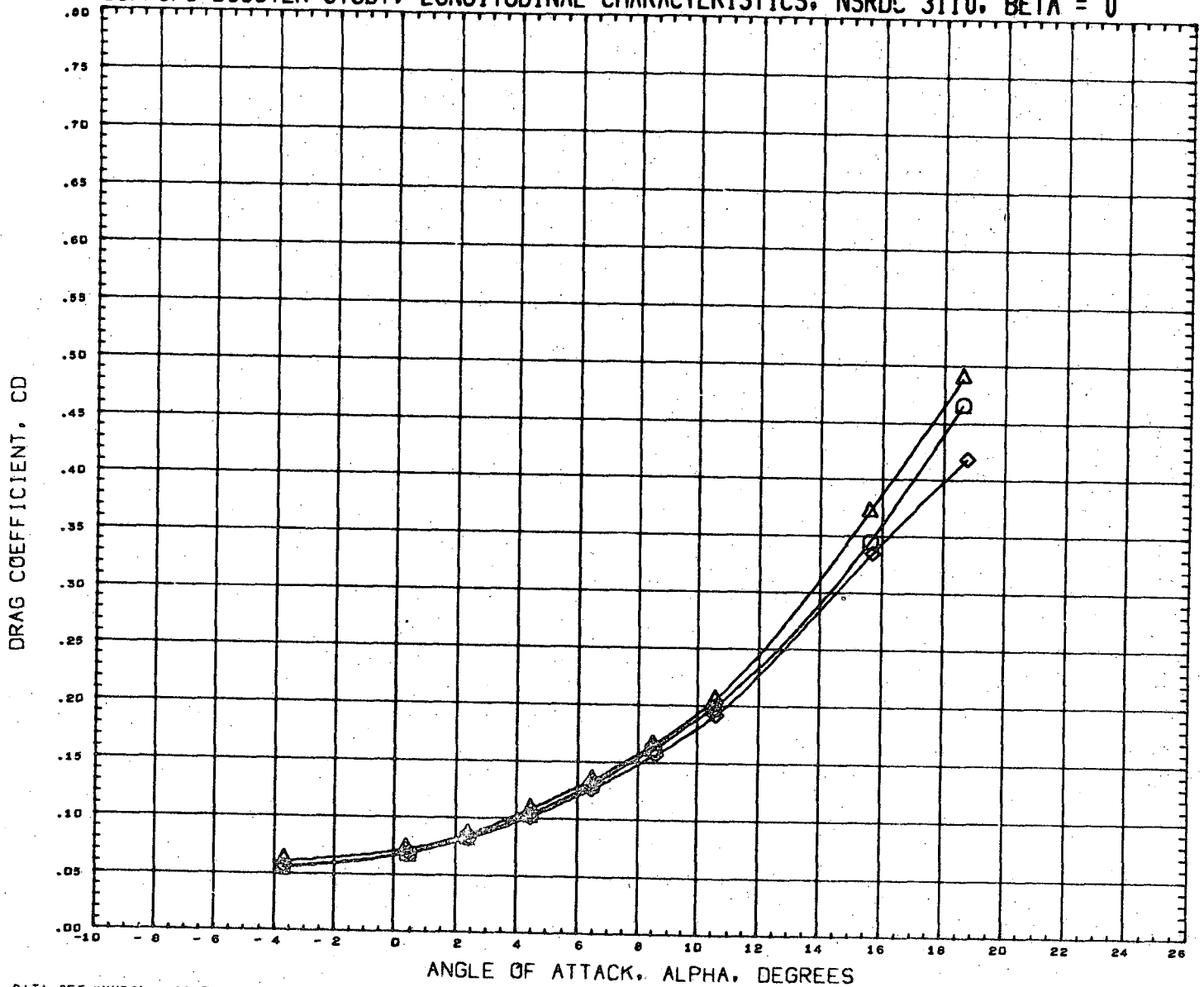
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2021)	□	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2213)	△	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
(RN2273)	◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2021)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2213)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
(RN2273)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

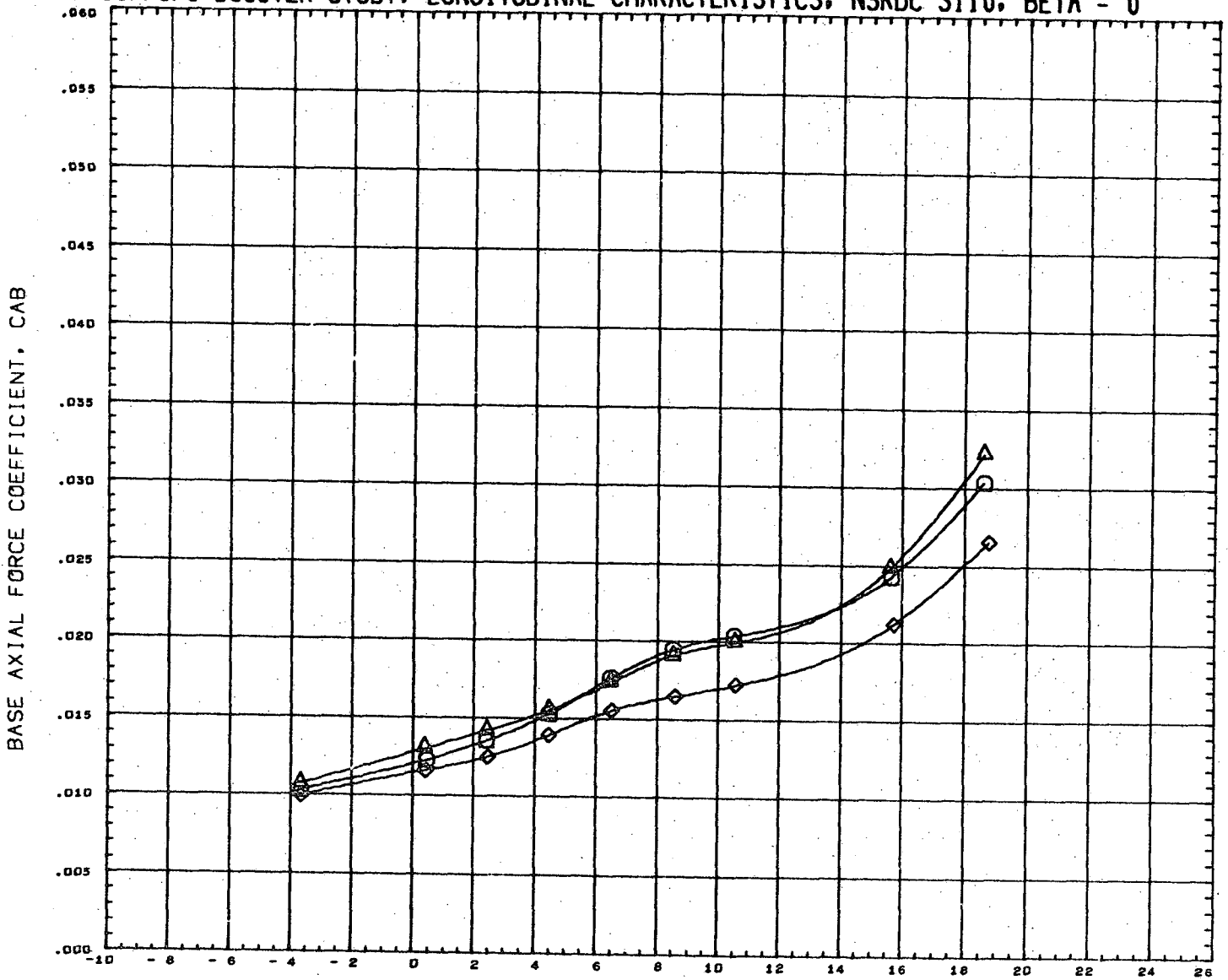
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2021)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2213)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
(RN2273)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

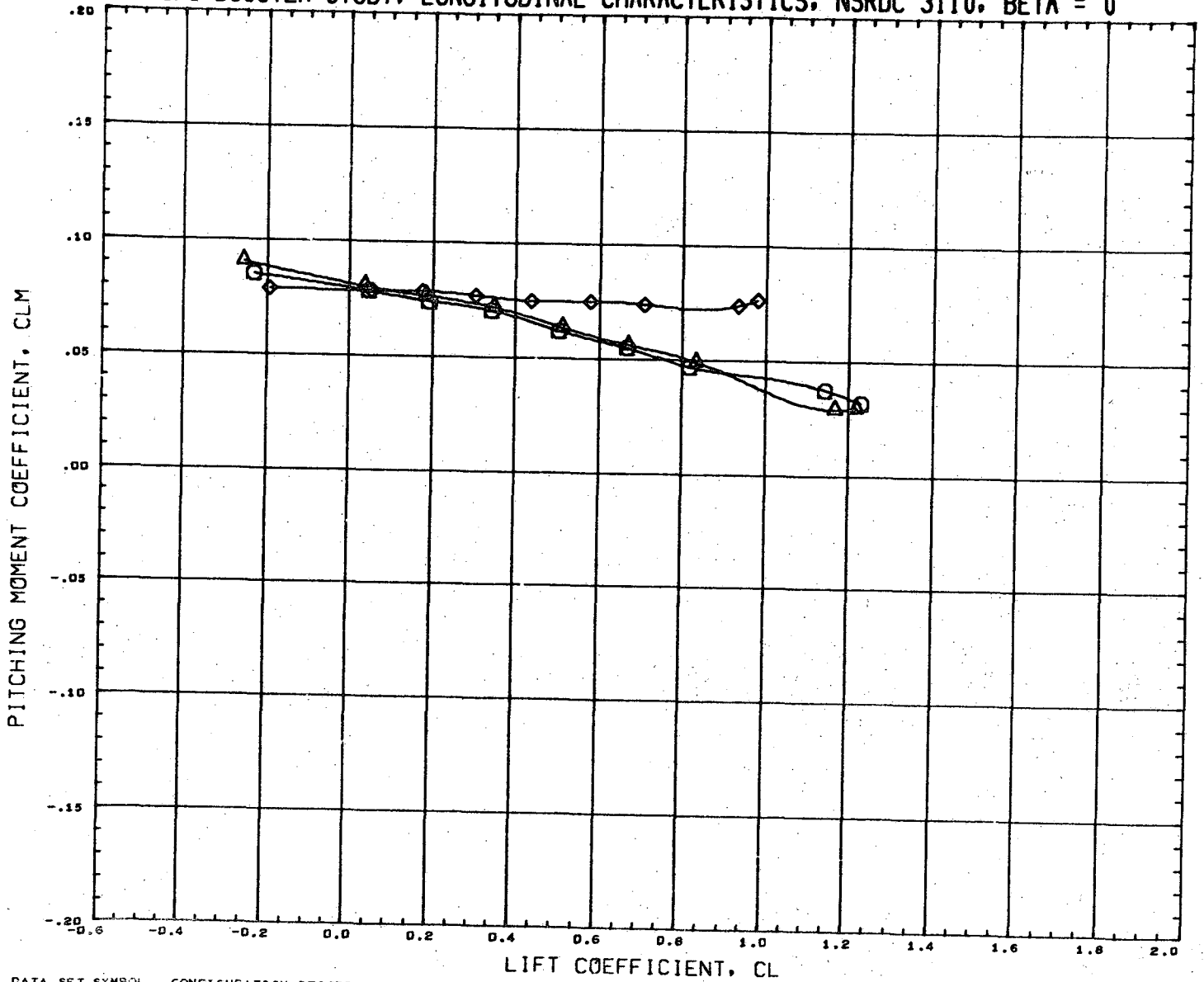


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2021)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2213)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
(RN2273)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.392

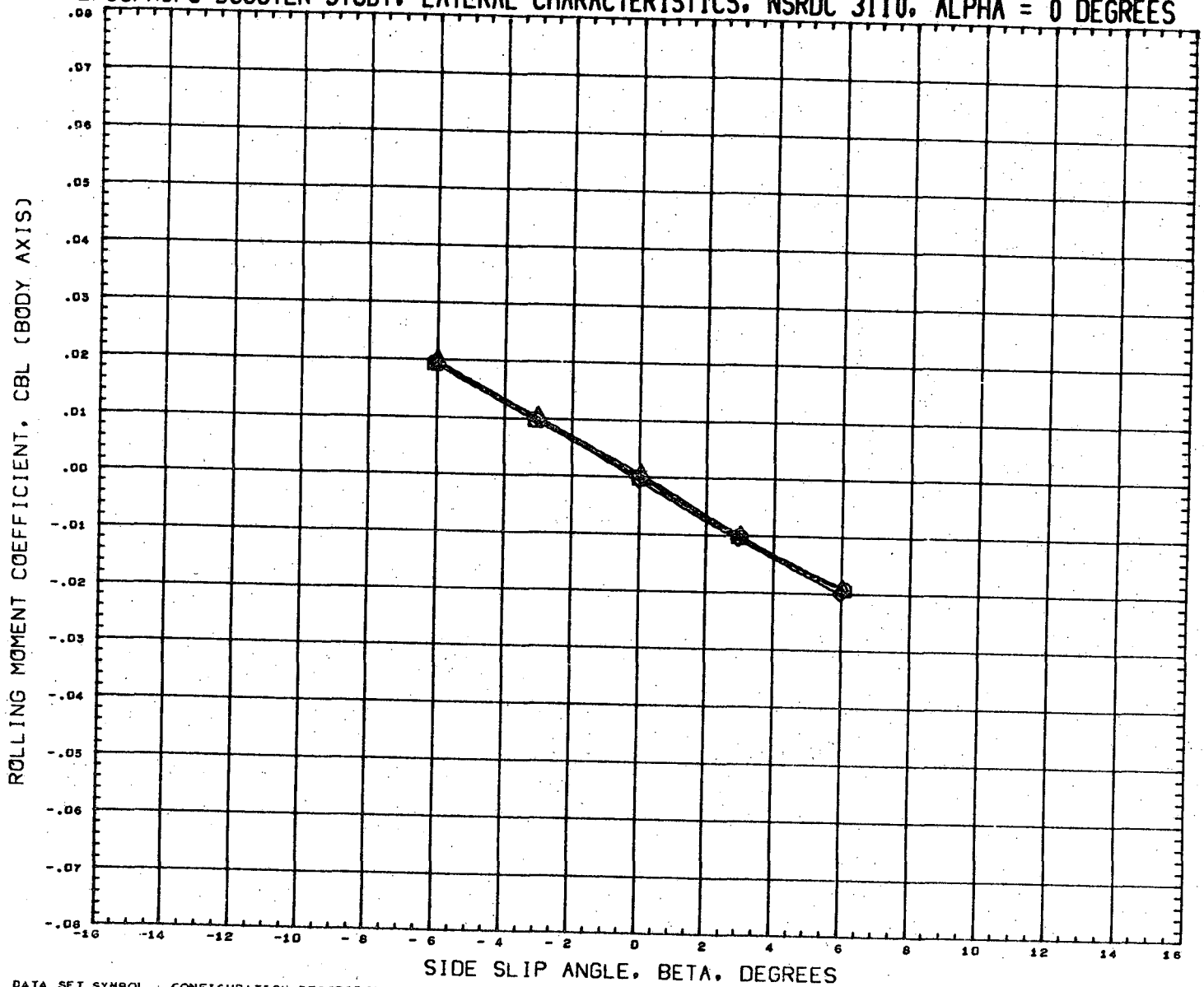
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2021)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2213)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
(RN2273)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.362

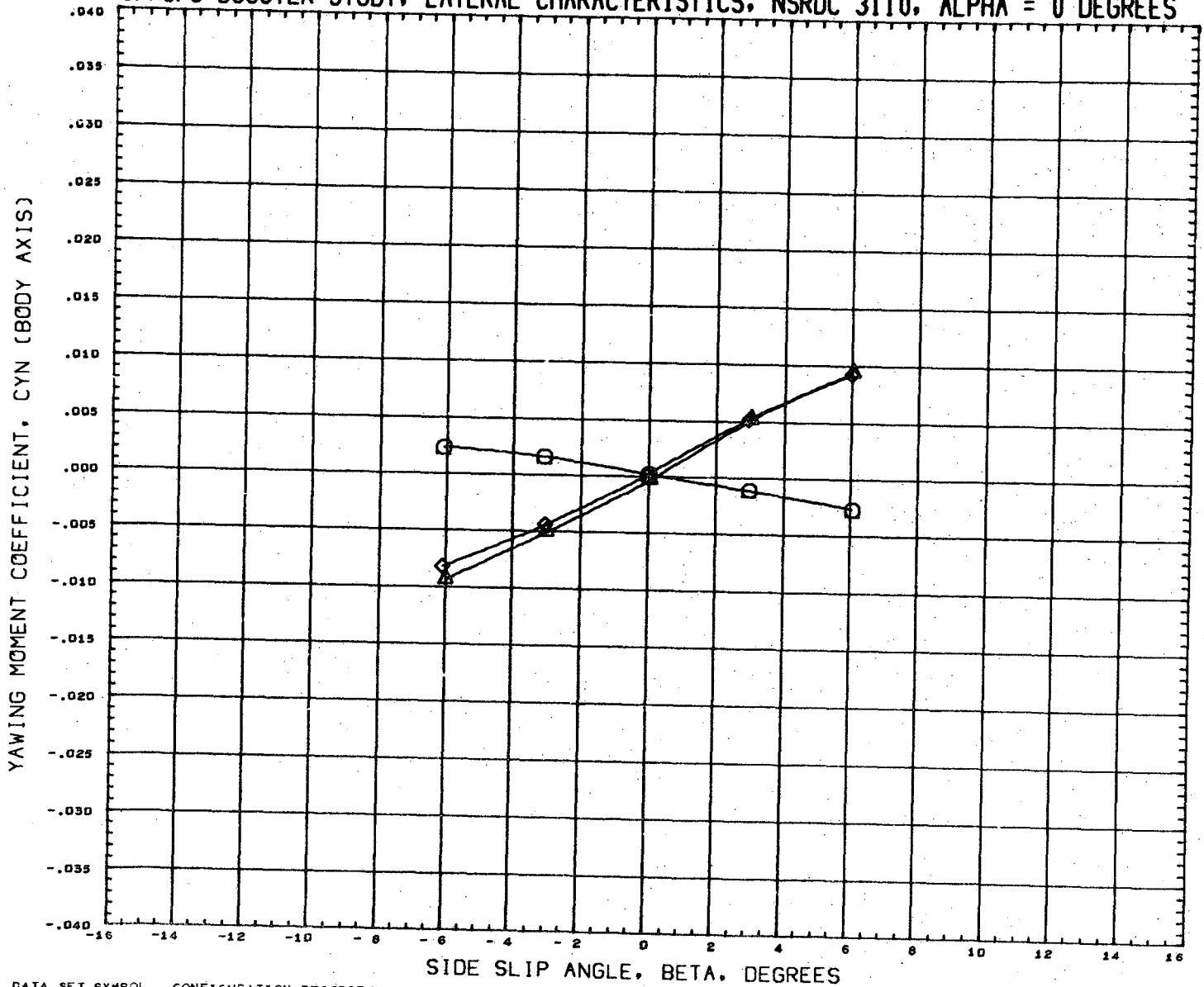
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2022)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2214)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
(RN2274)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

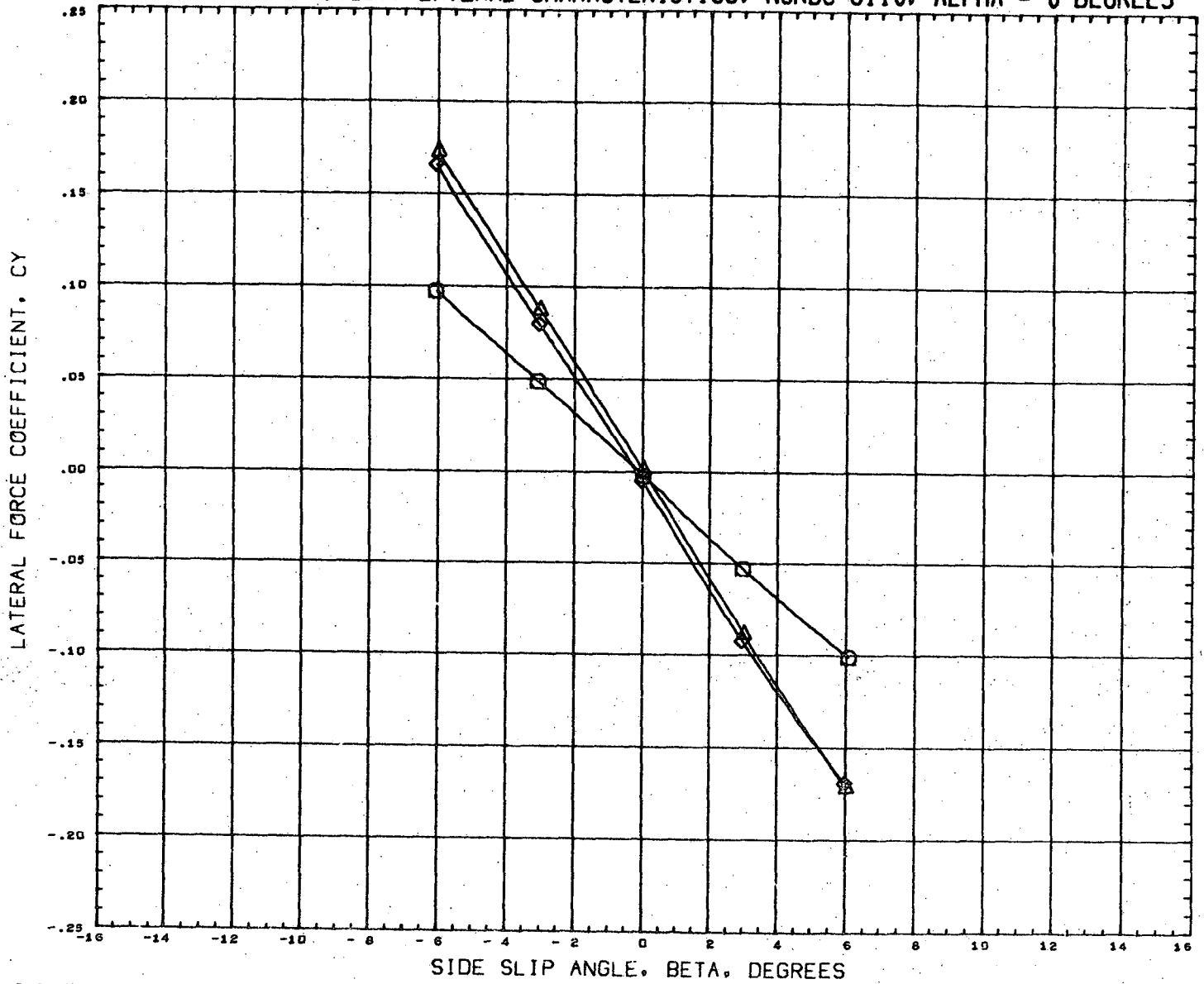
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2022)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2214)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
(RN2274)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

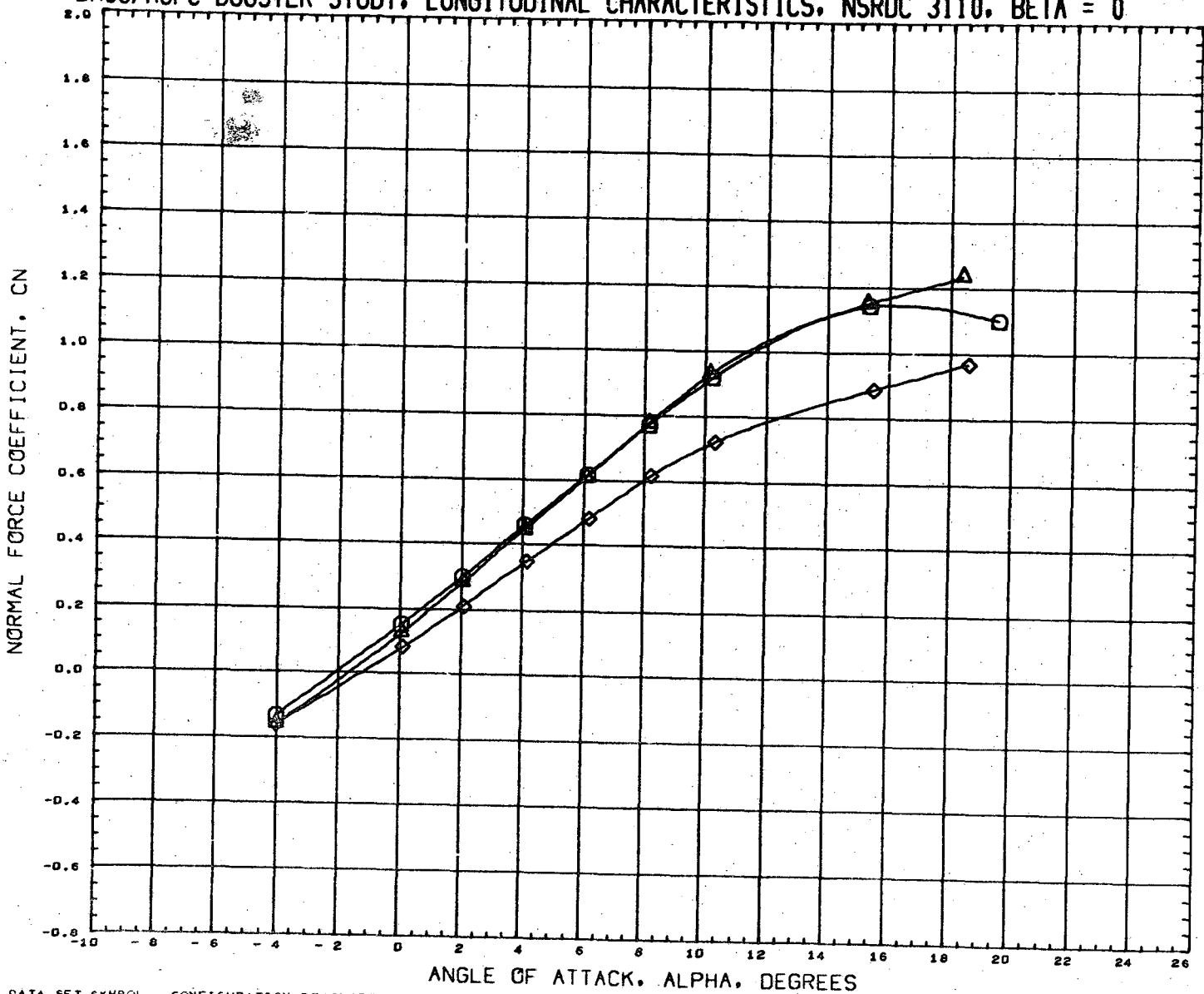
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2022)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2214)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
(RN2274)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

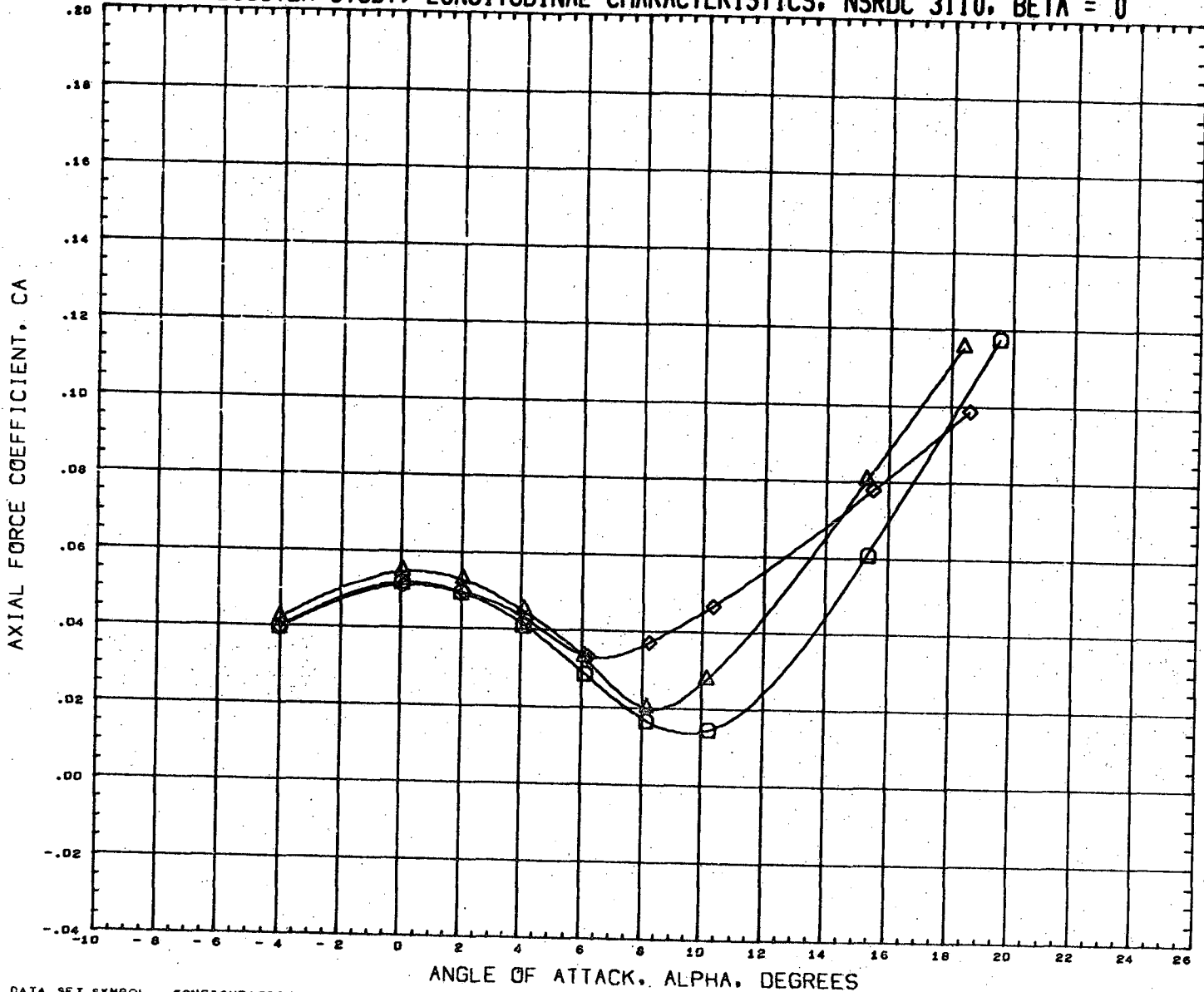
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2049)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2241)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2301)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

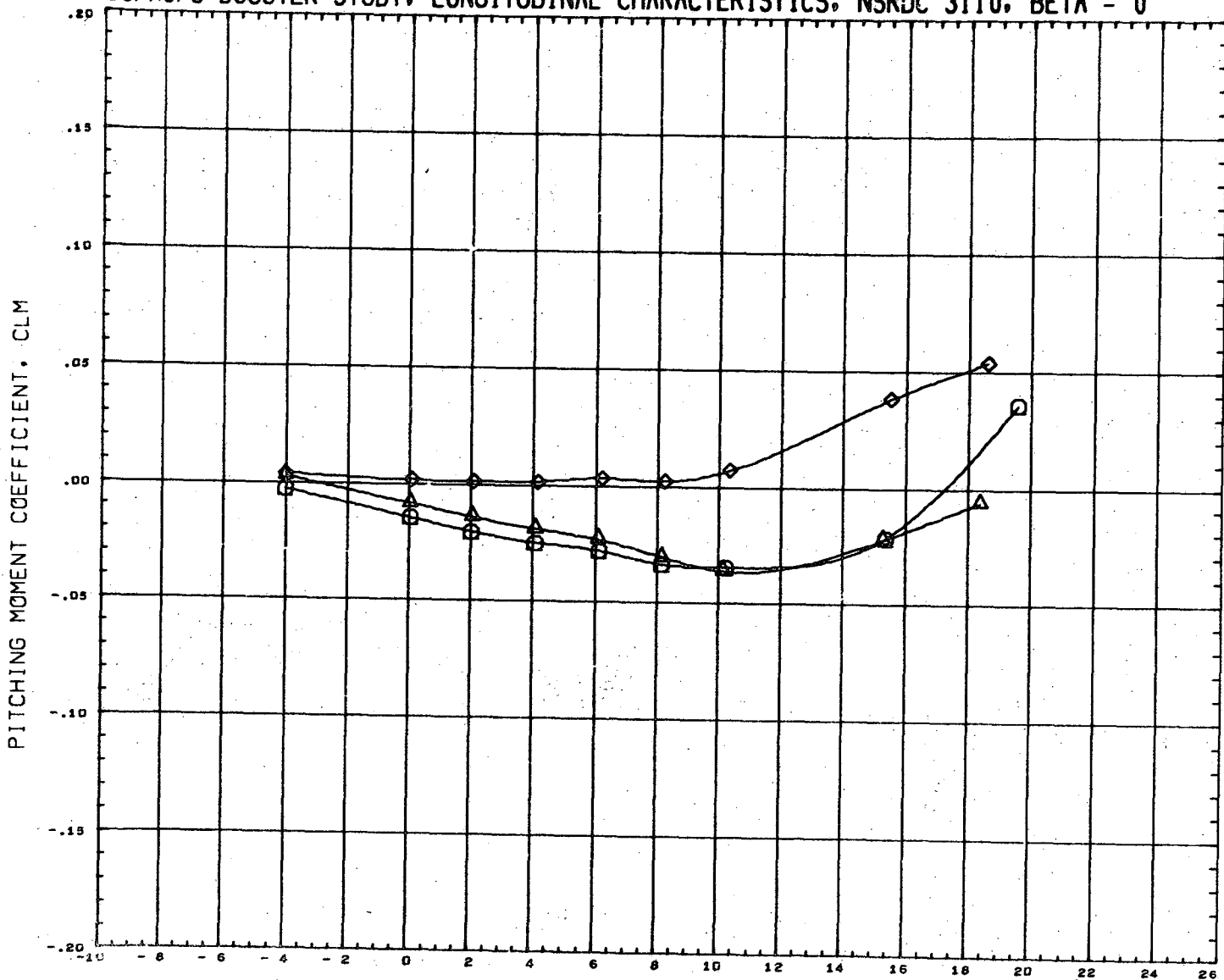
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2049)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2241)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2301)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

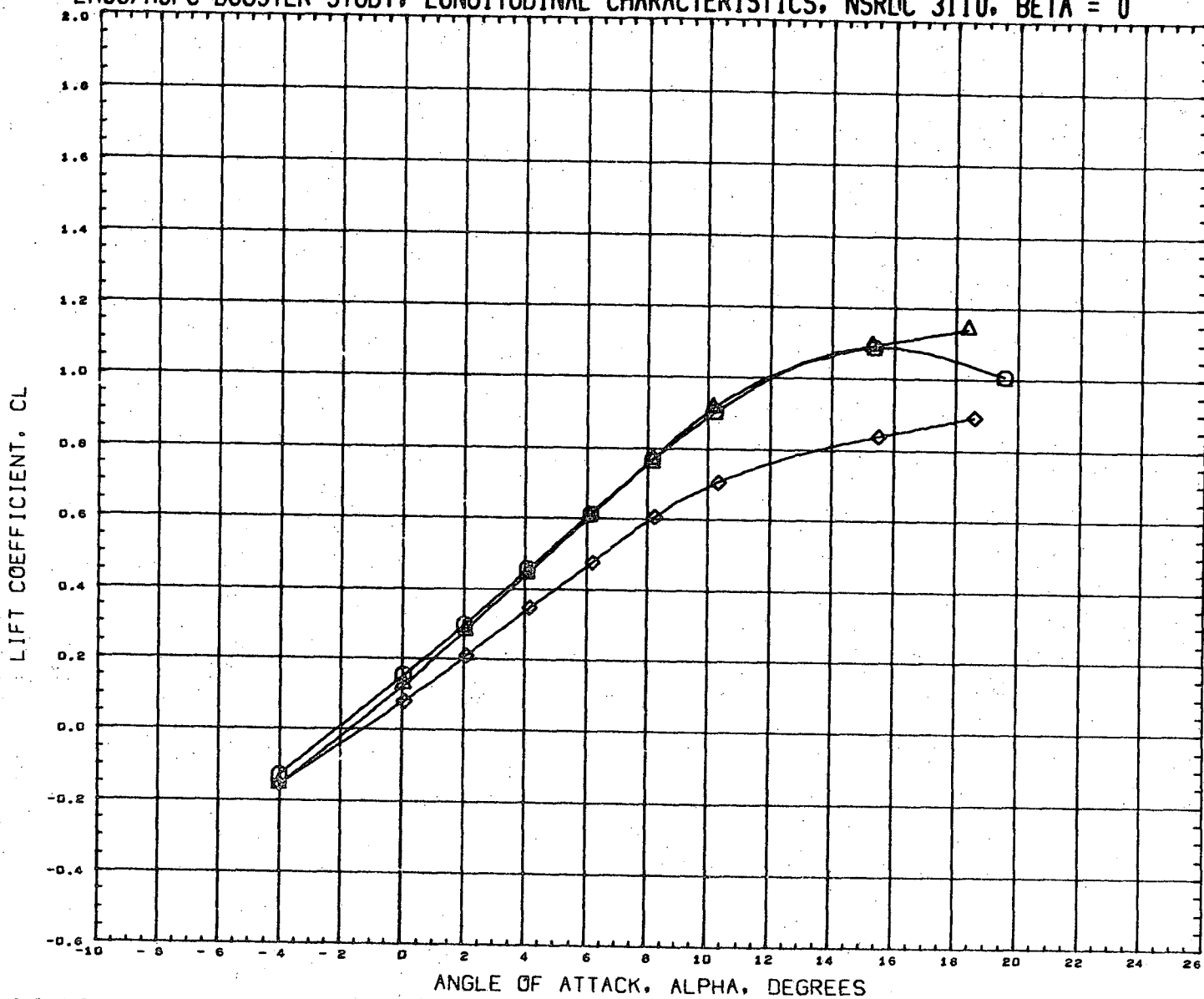
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2049)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2241)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2301)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

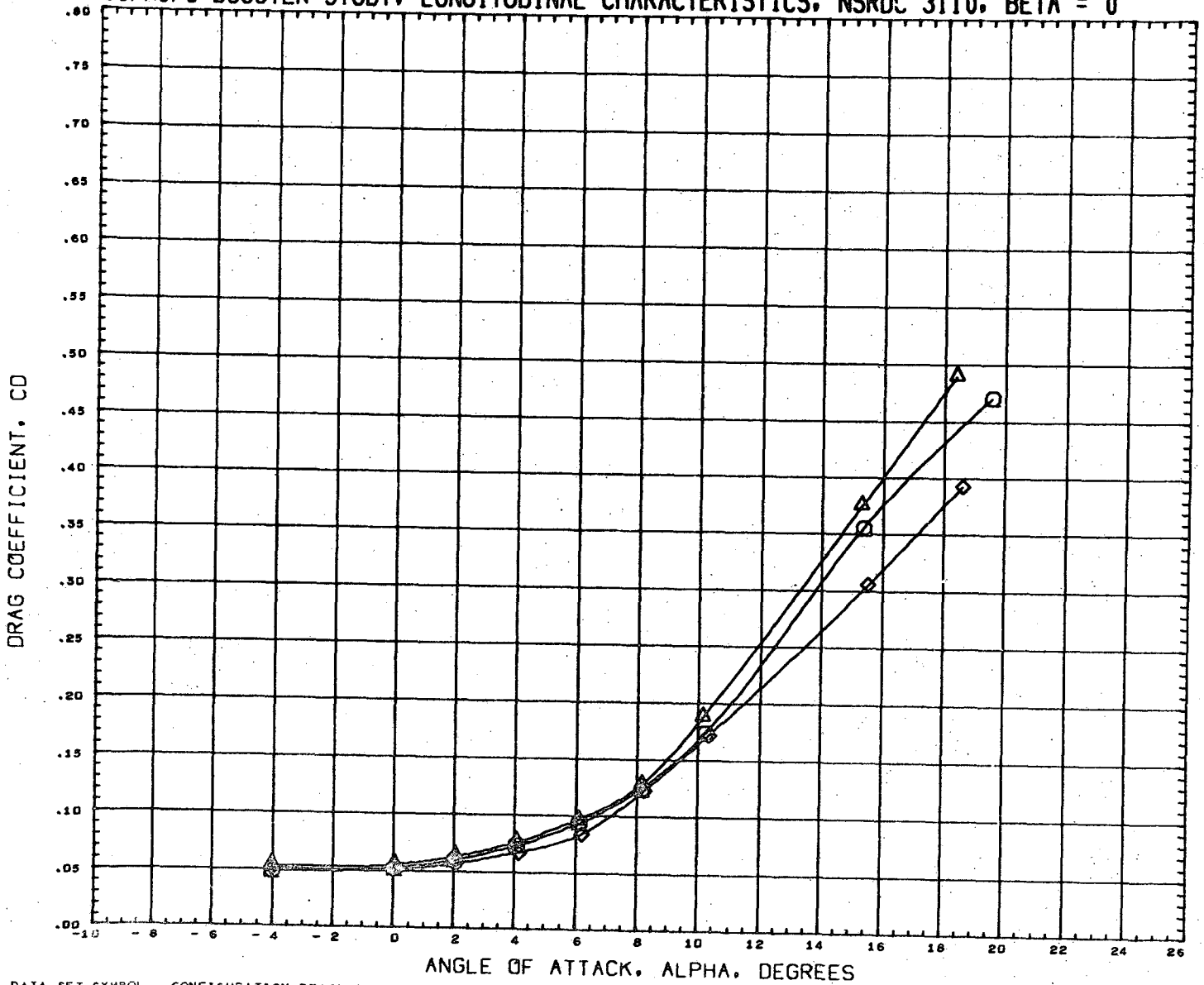
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2049)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2241)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2301)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

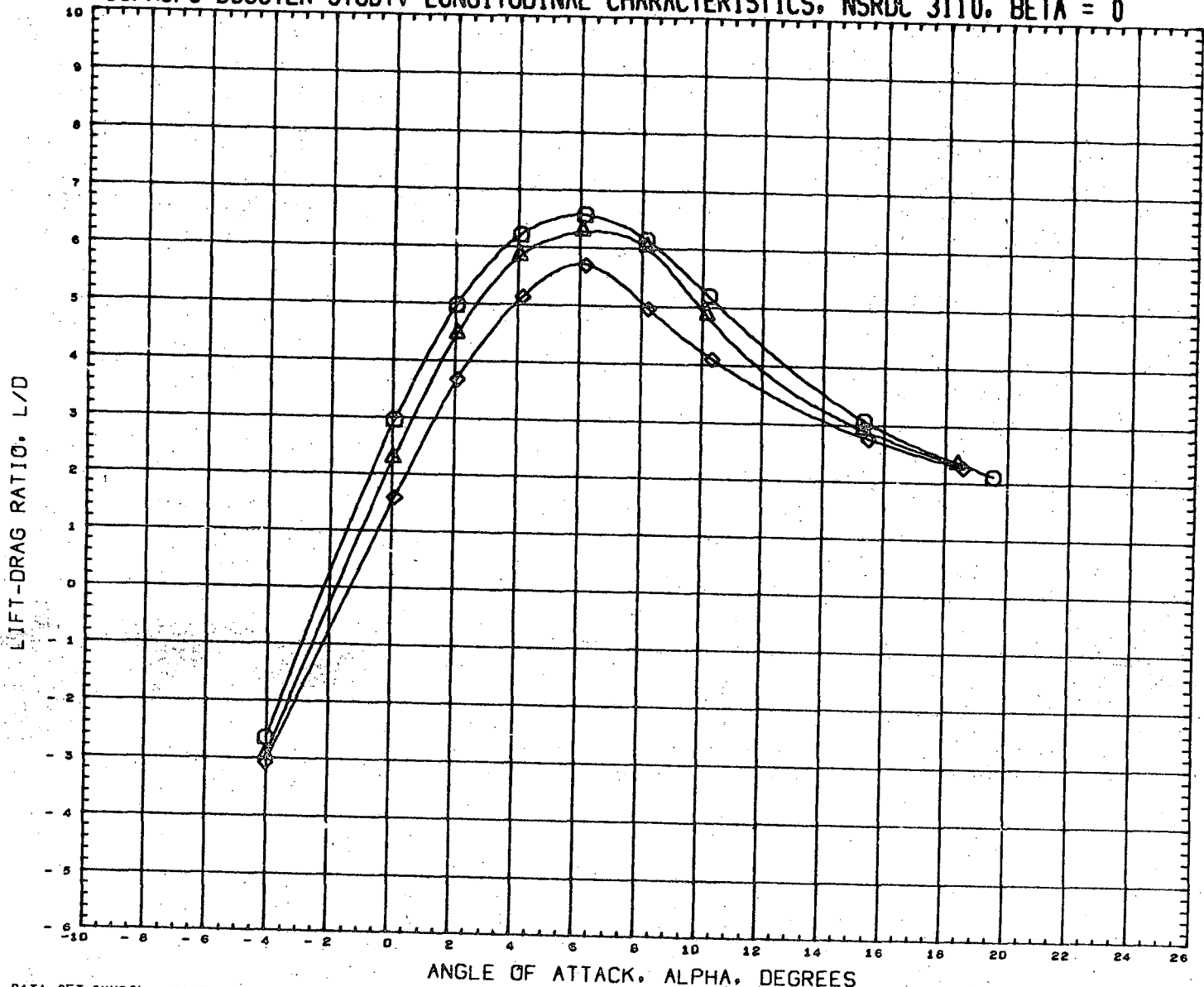
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2049)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2241)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2301)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

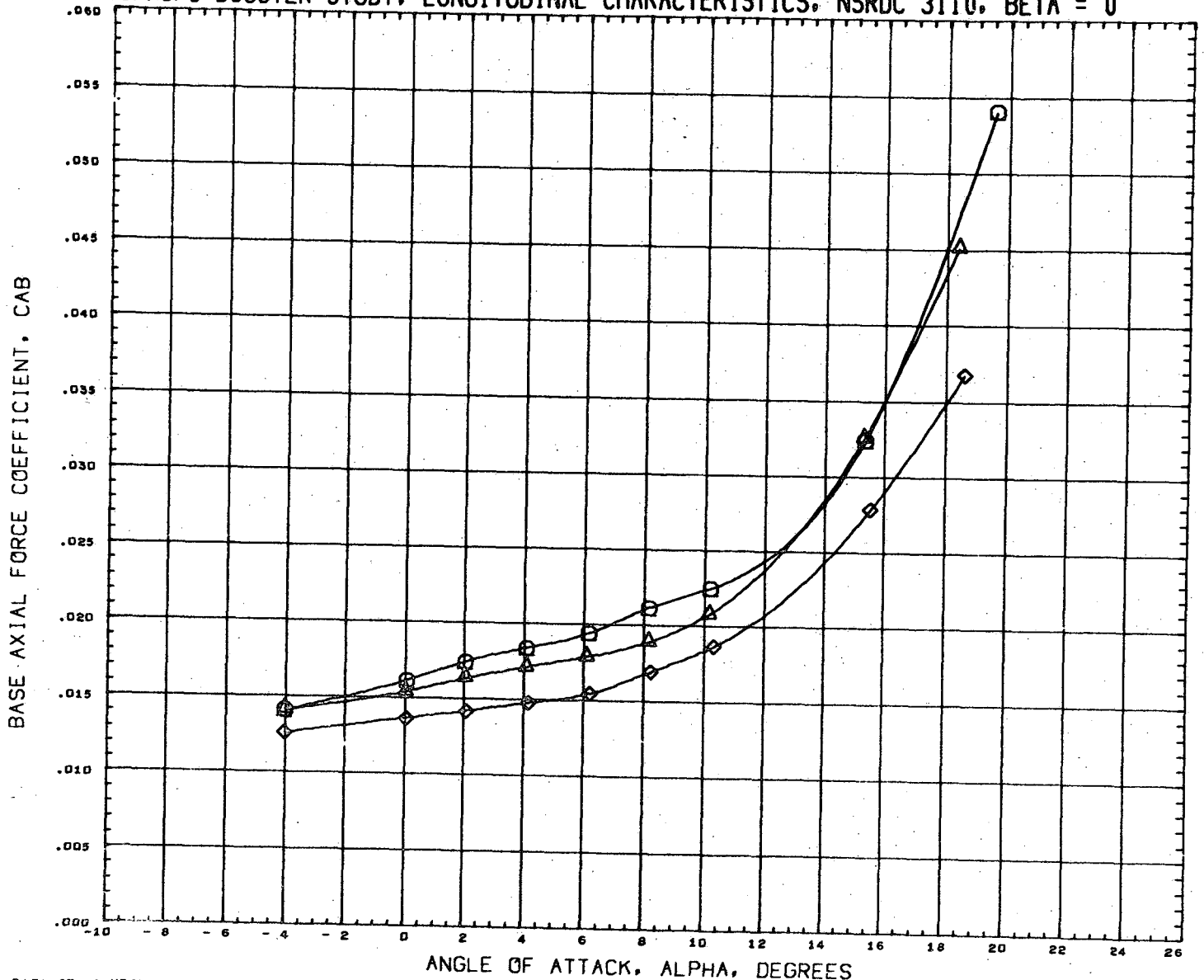
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2049)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2241)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2301)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

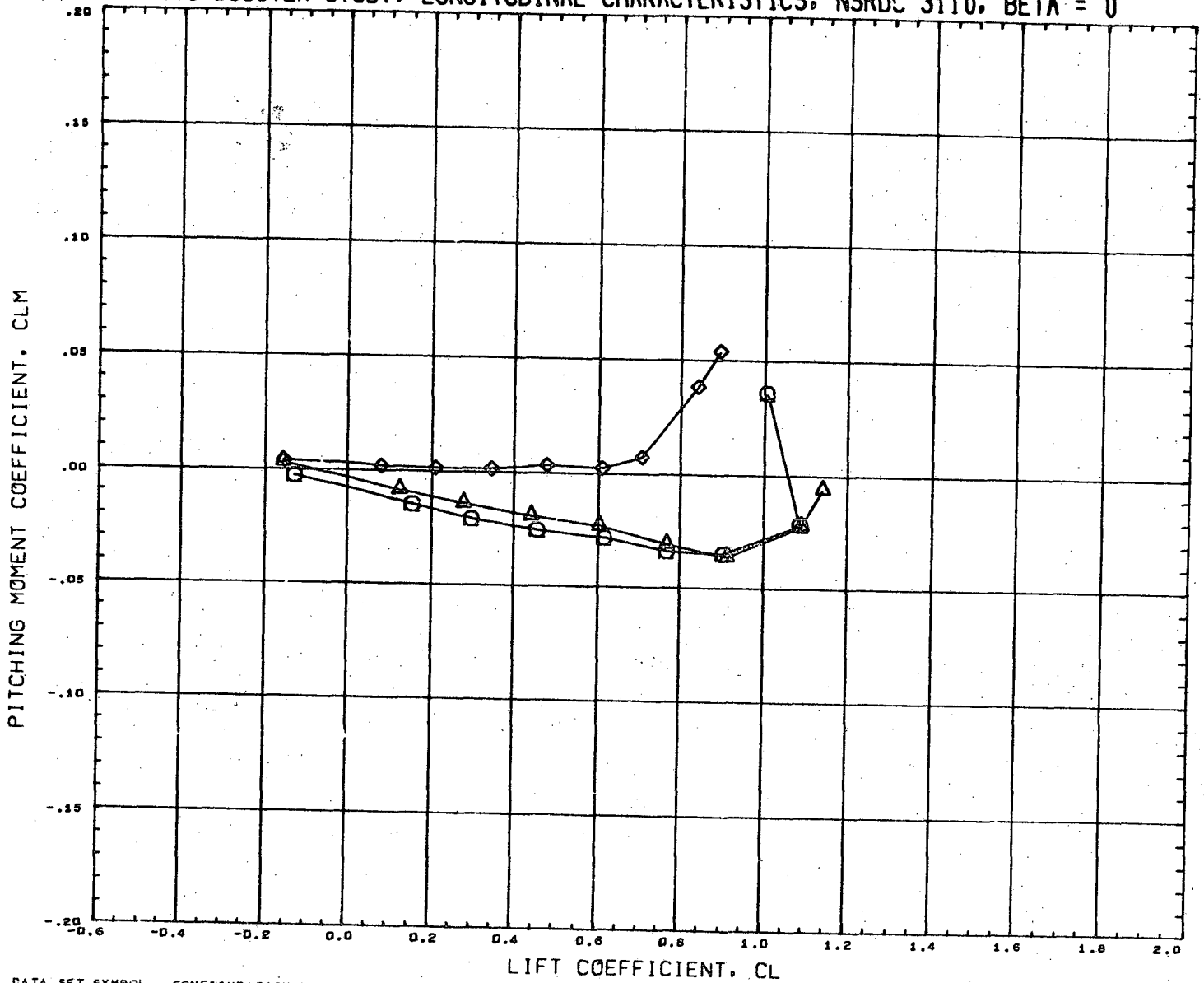
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2049)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2241)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2301)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

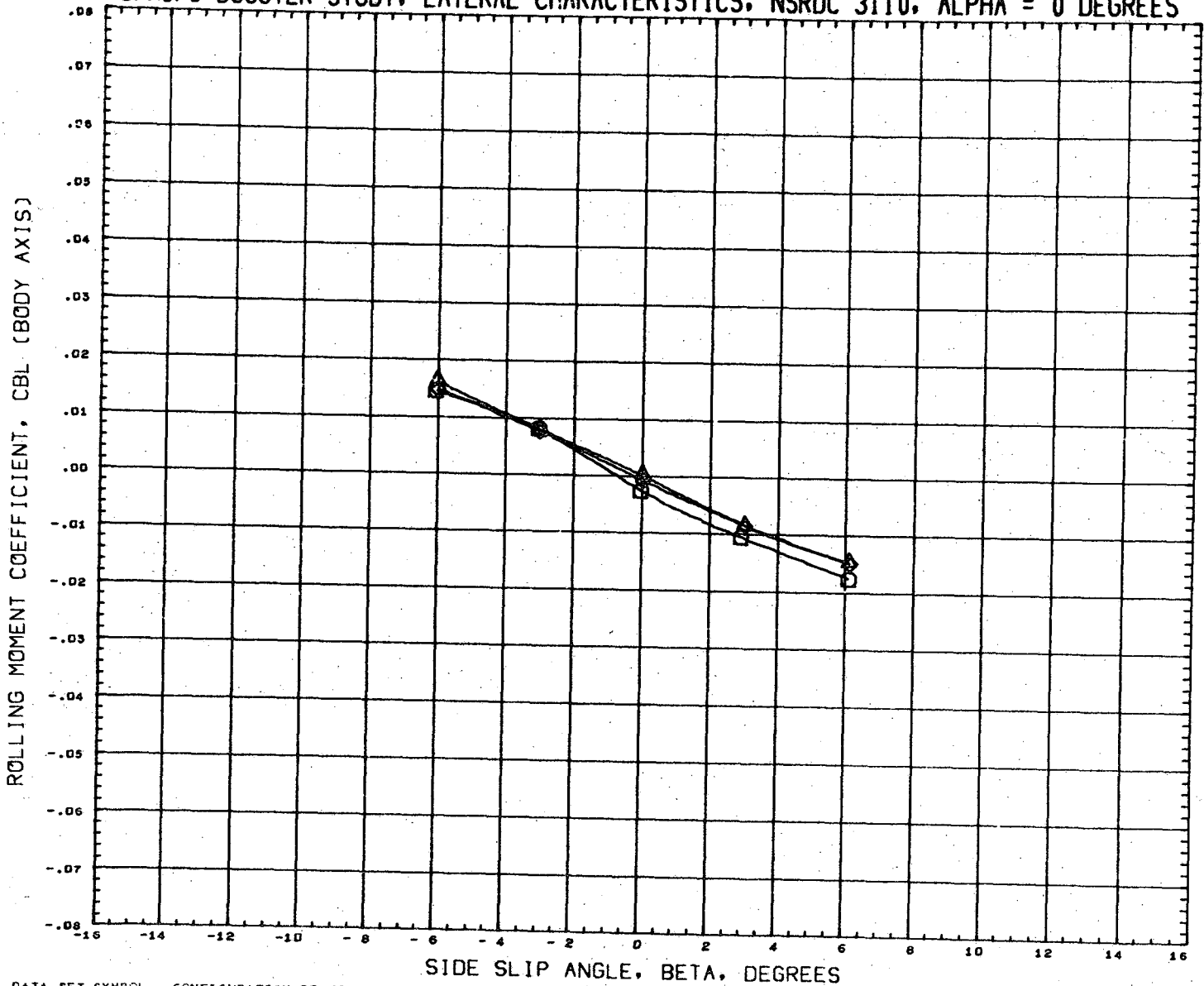
LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS. NSRDC 3110. BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2049)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2241)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2301)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

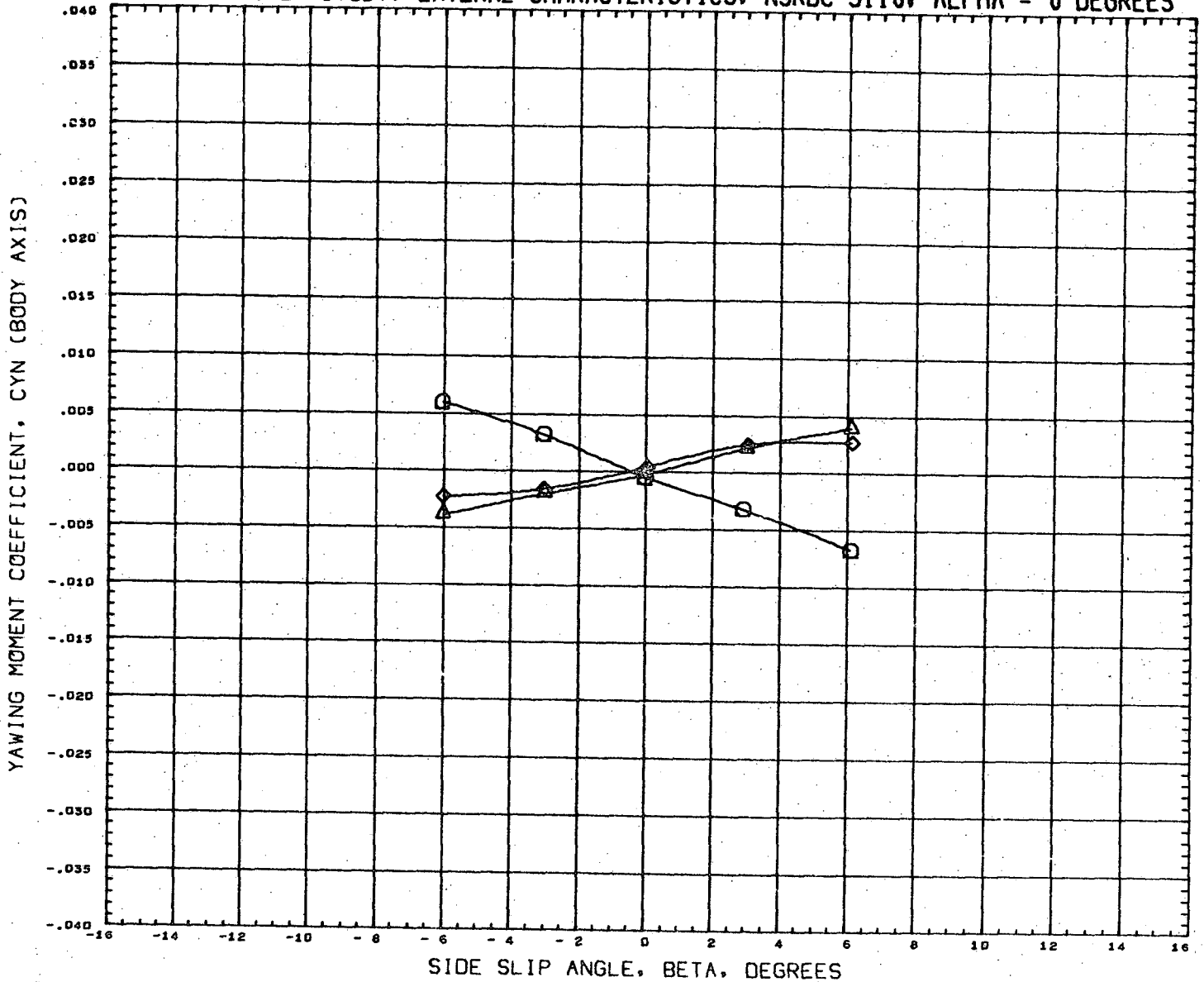
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2050)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2242)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2302)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

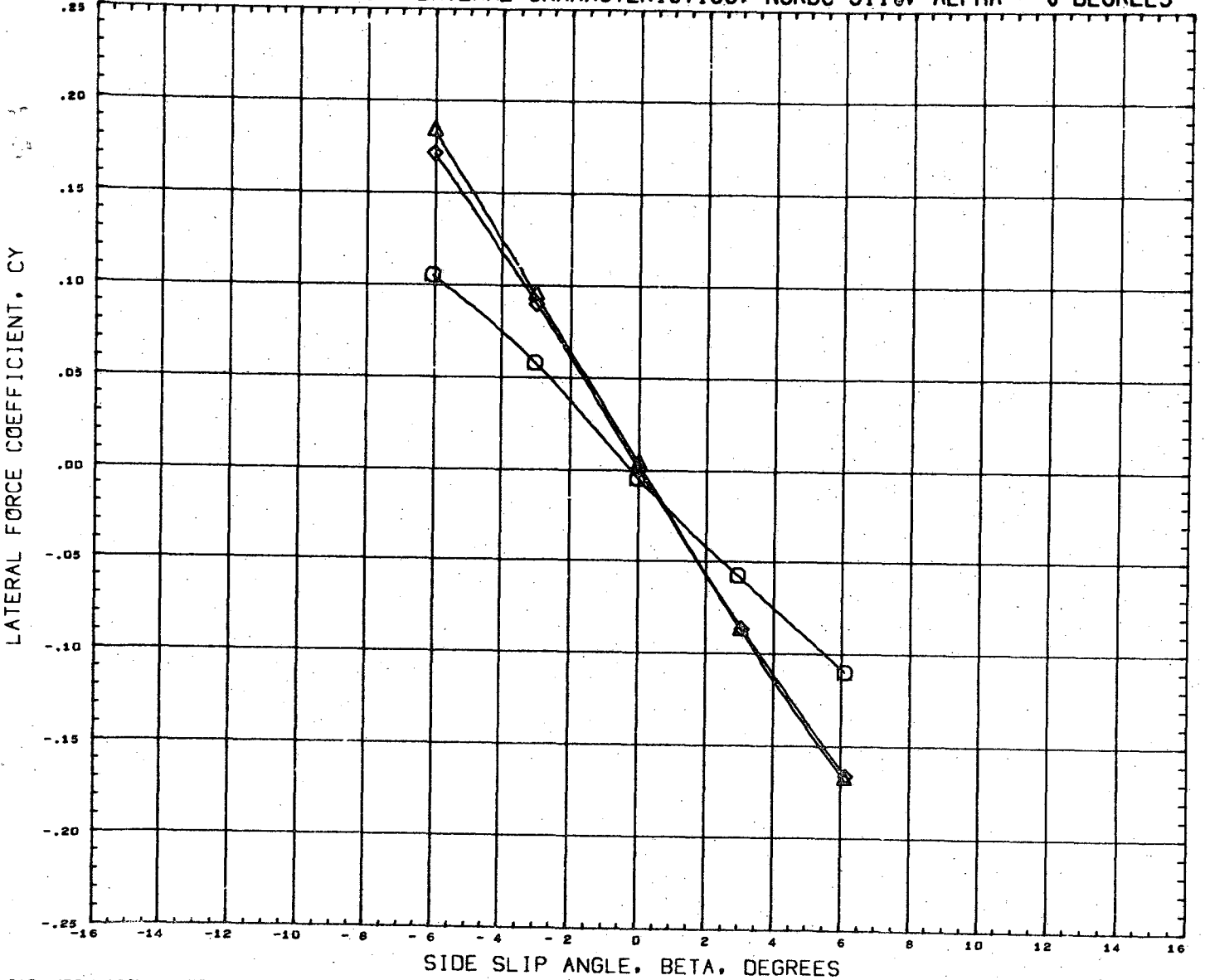
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2050)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2242)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2302)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

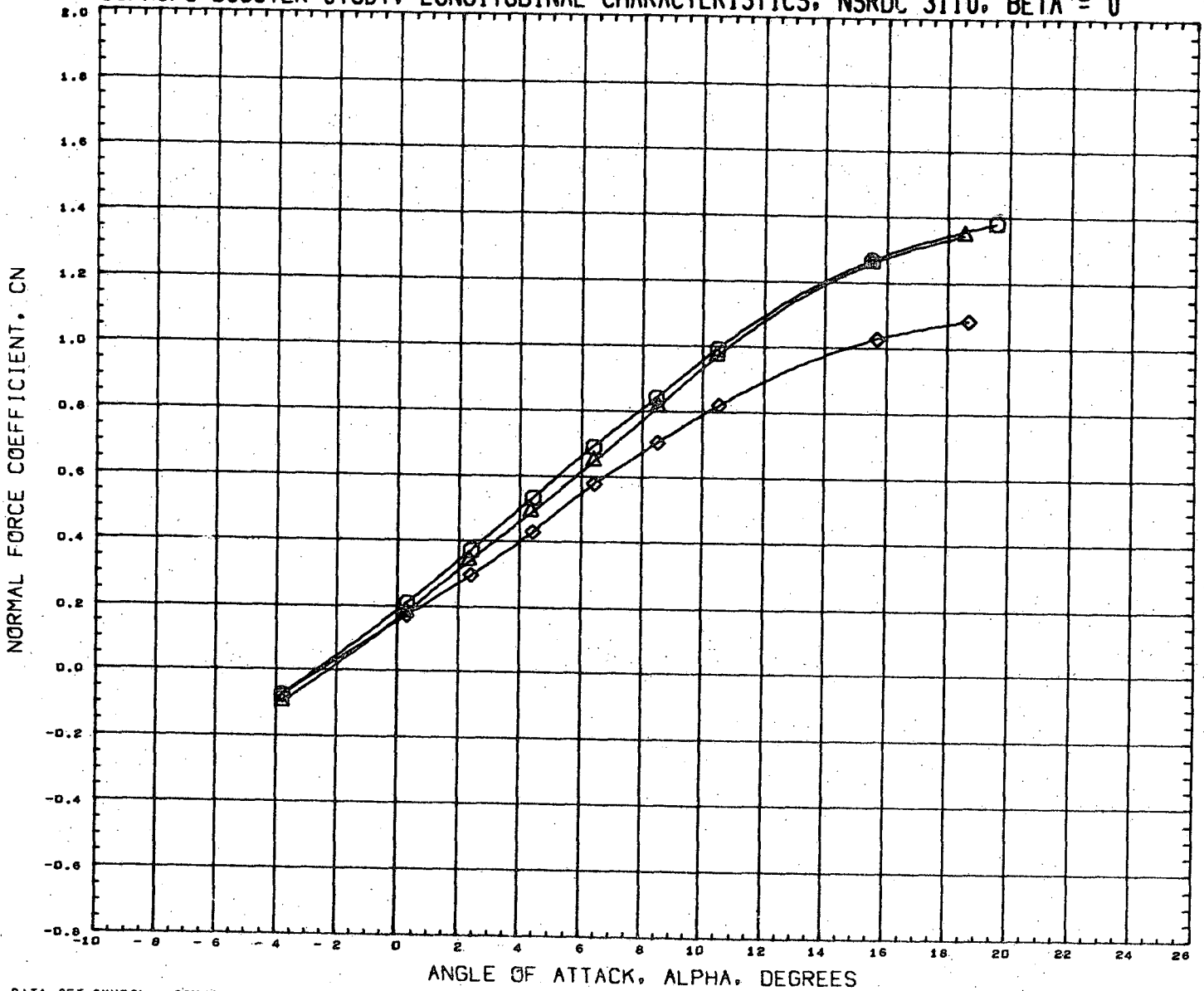
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2050)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	3.000	2.000	SREF	1.3550 SQ.FT.
(RN2242)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF	41.4360 INCHES
(RN2302)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

HACH D.381

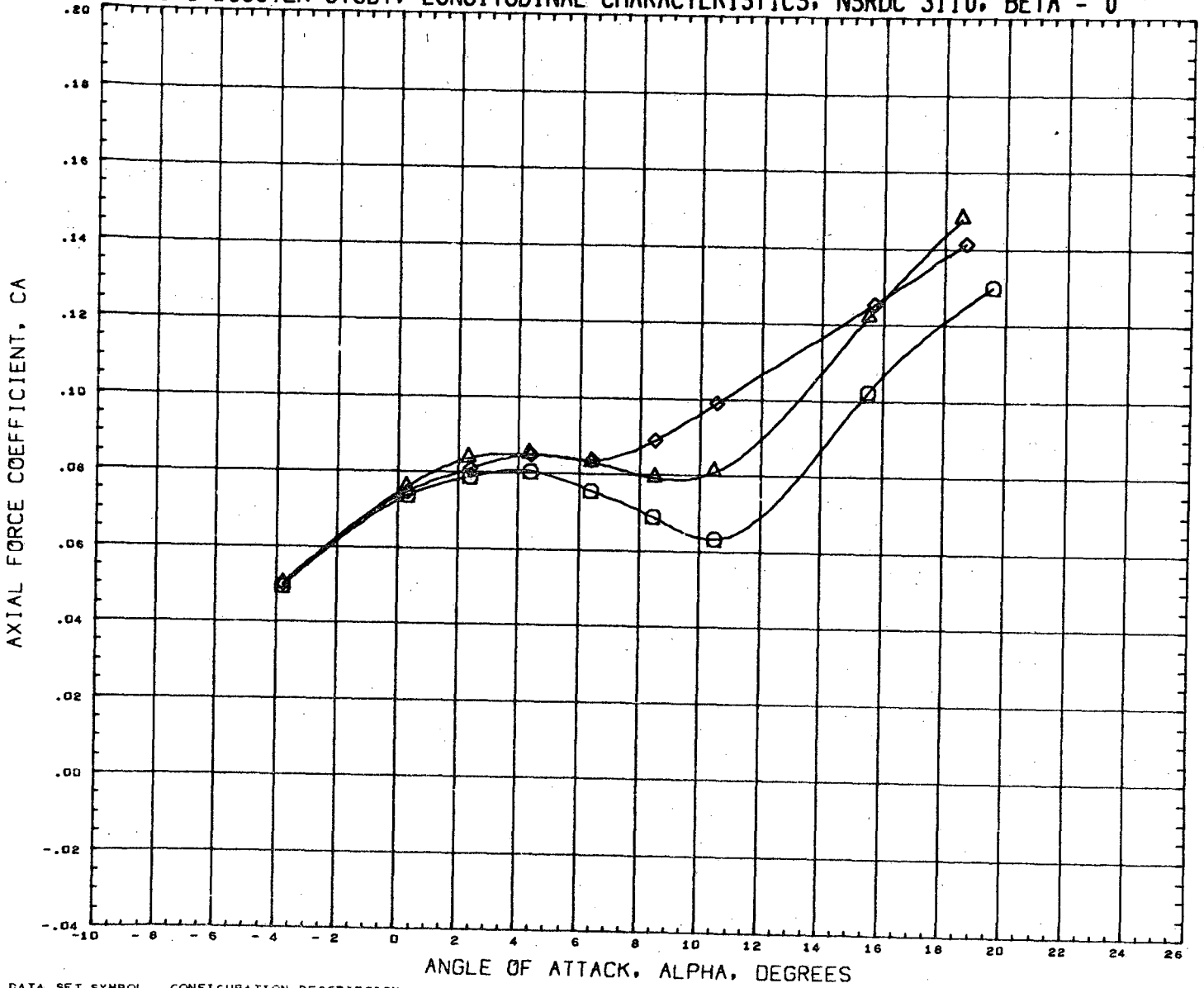
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2053)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2245)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2305)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

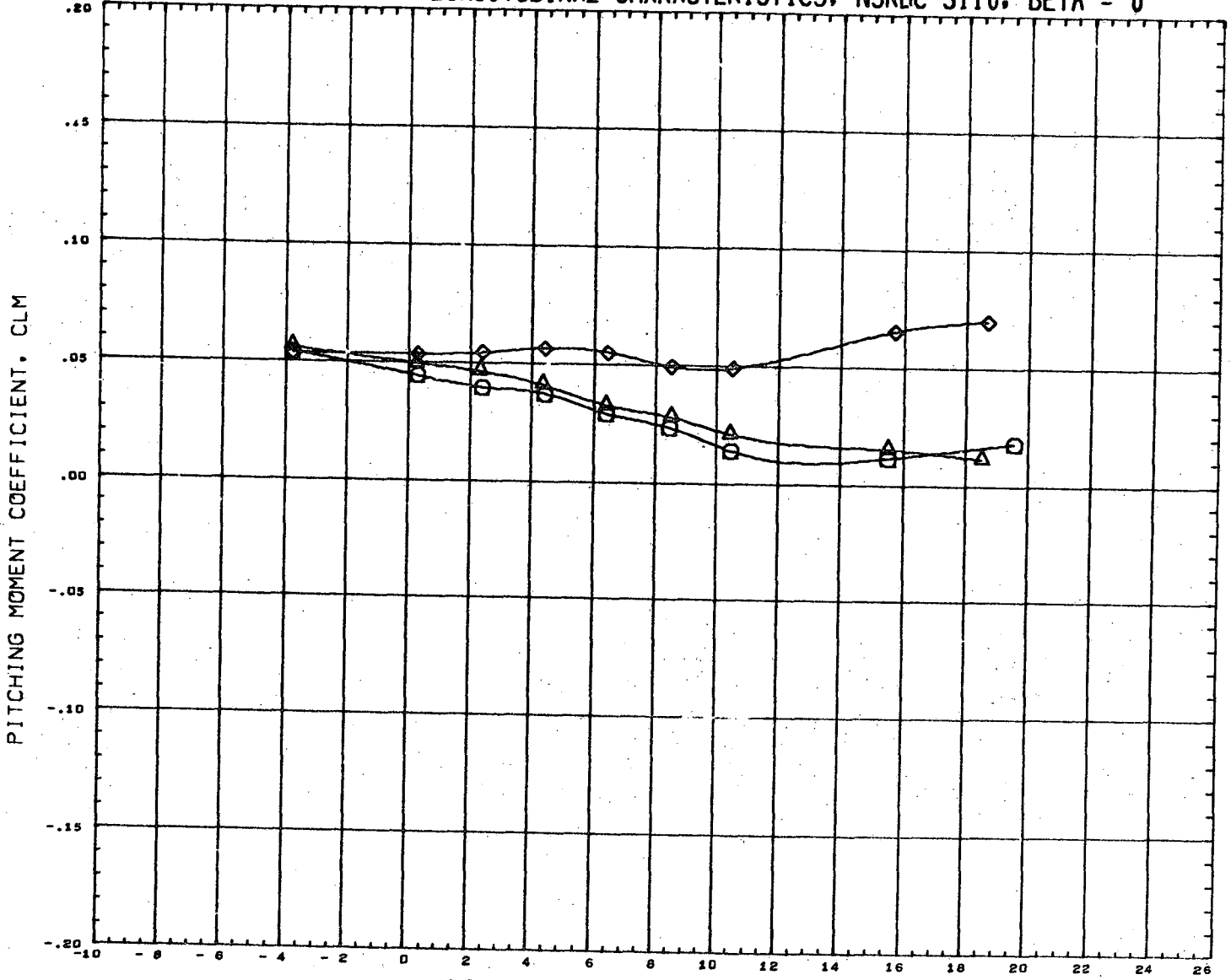
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2053)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2245)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2305)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

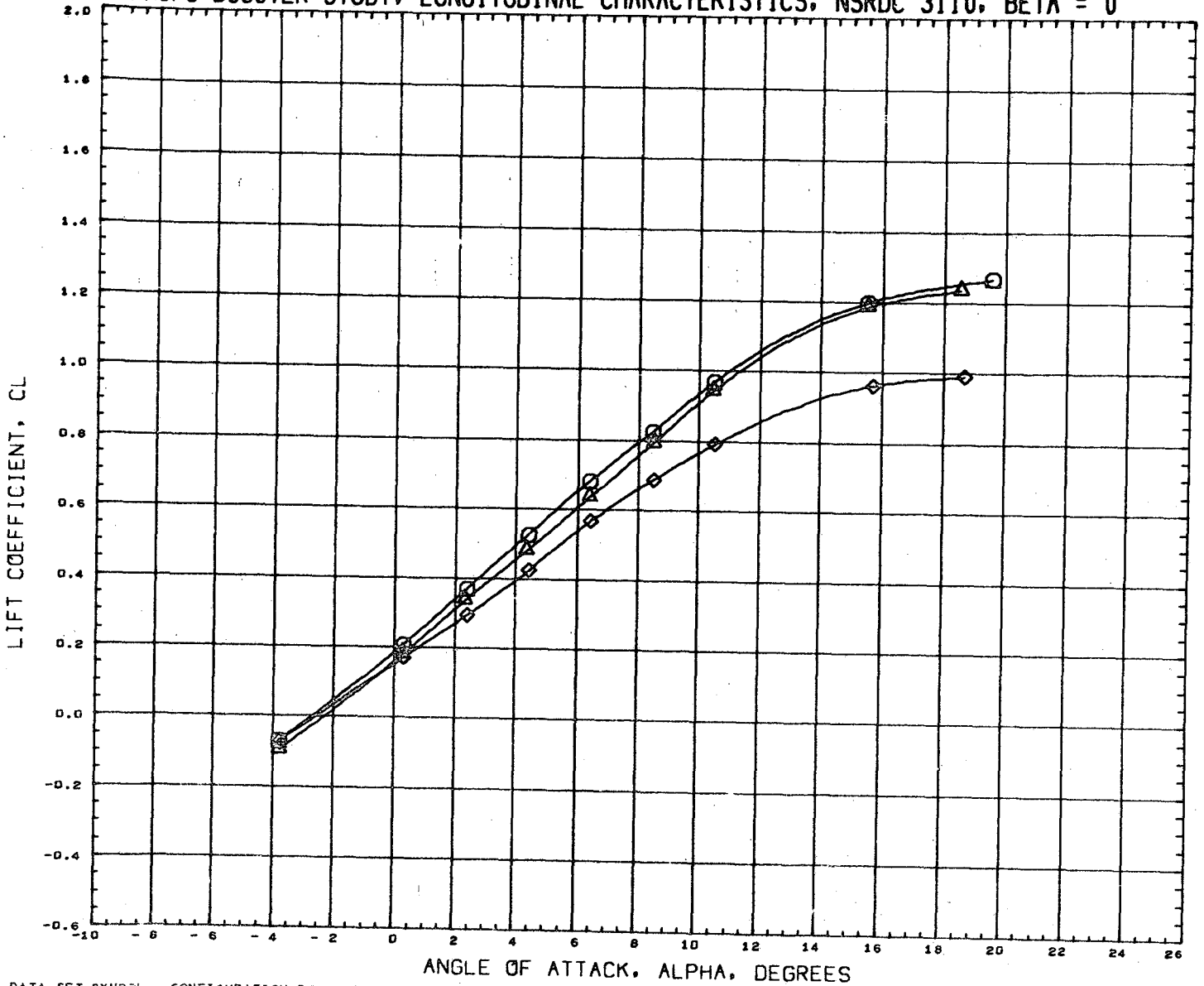
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2053)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2245)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2305)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCNT

MACH 0.381

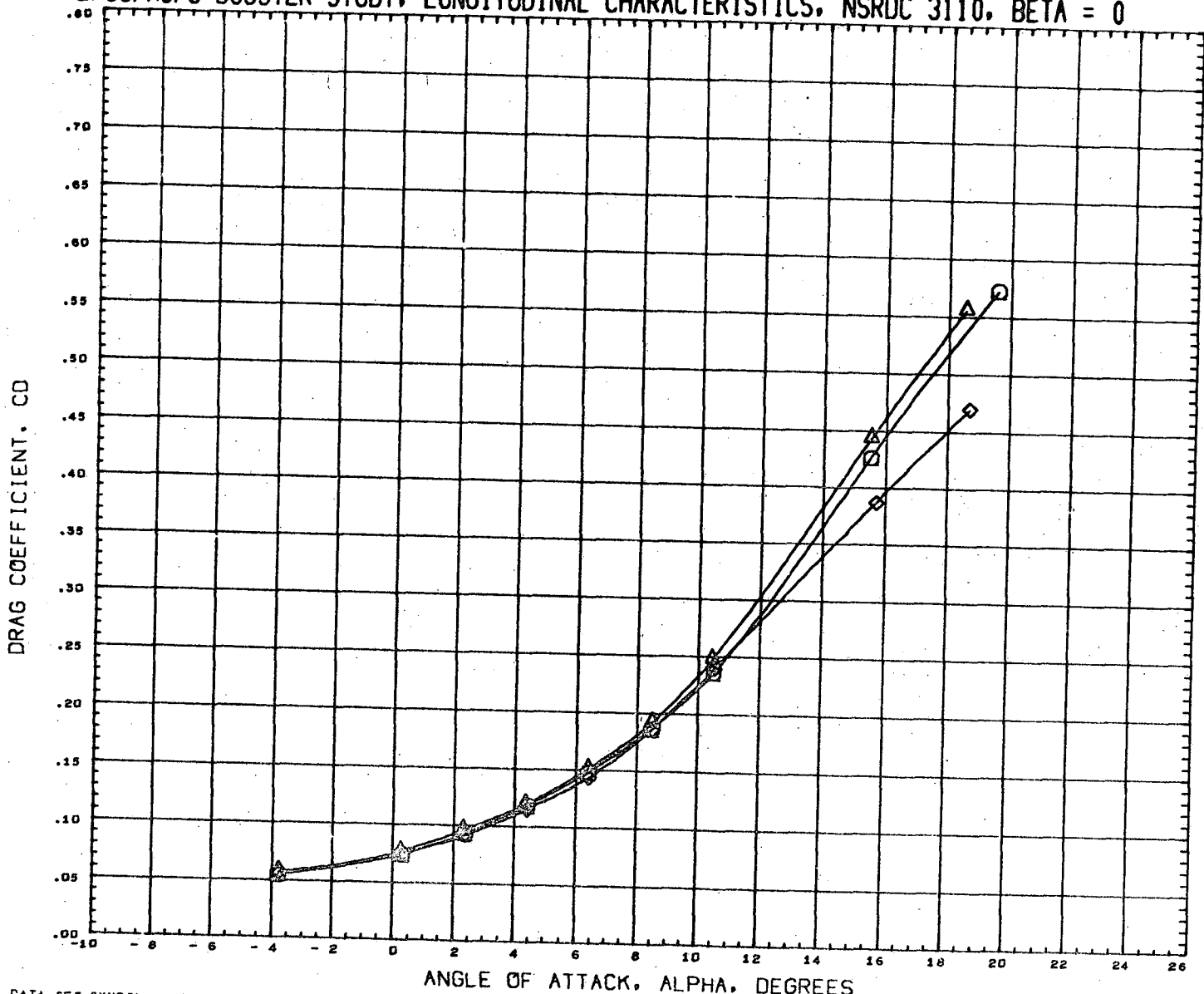
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2053)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2245)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2305)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

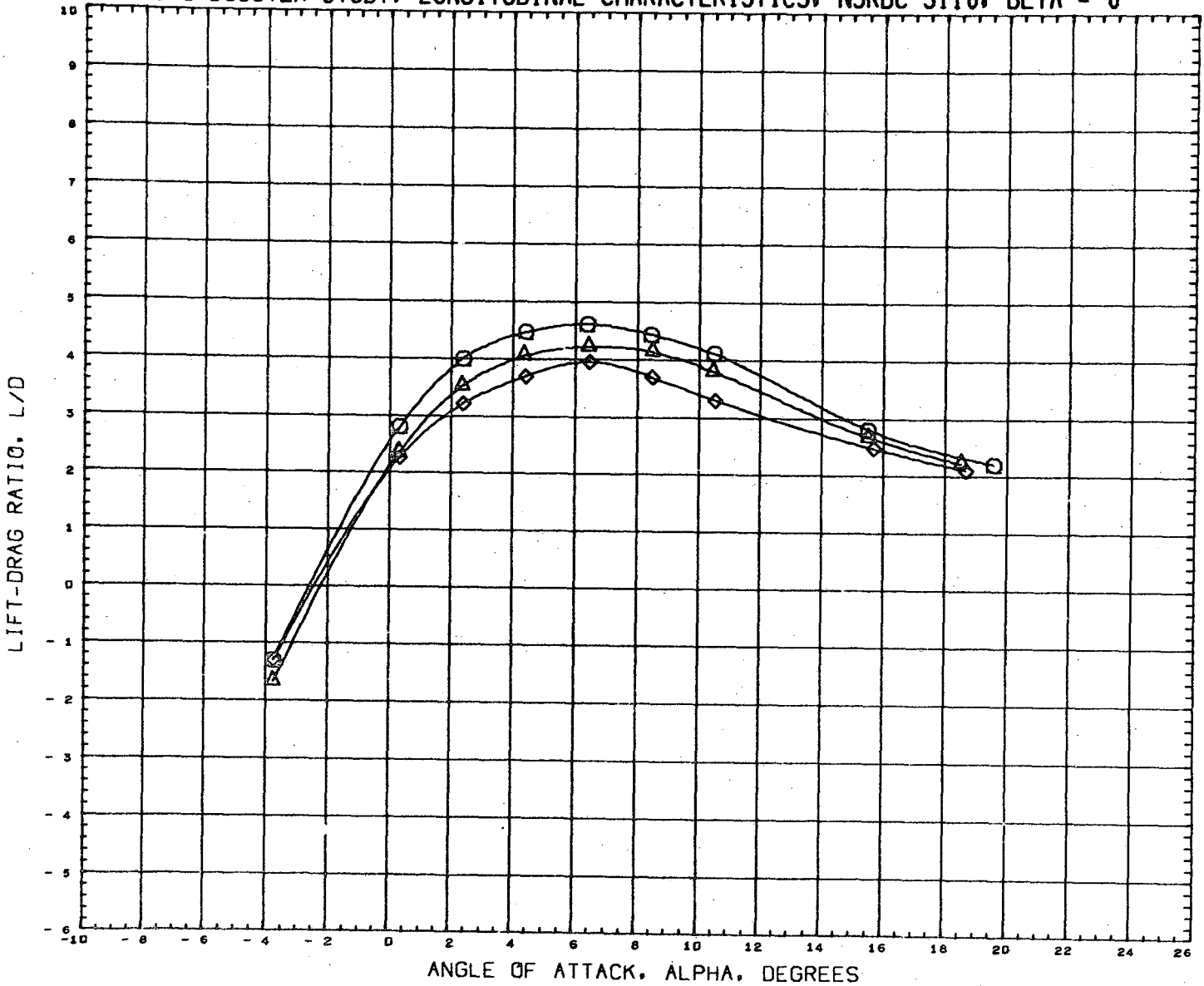


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2053)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000	SREF	1.3550 SQ.FT.
(RN2245)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF	41.4360 INCHES
(RN2305)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

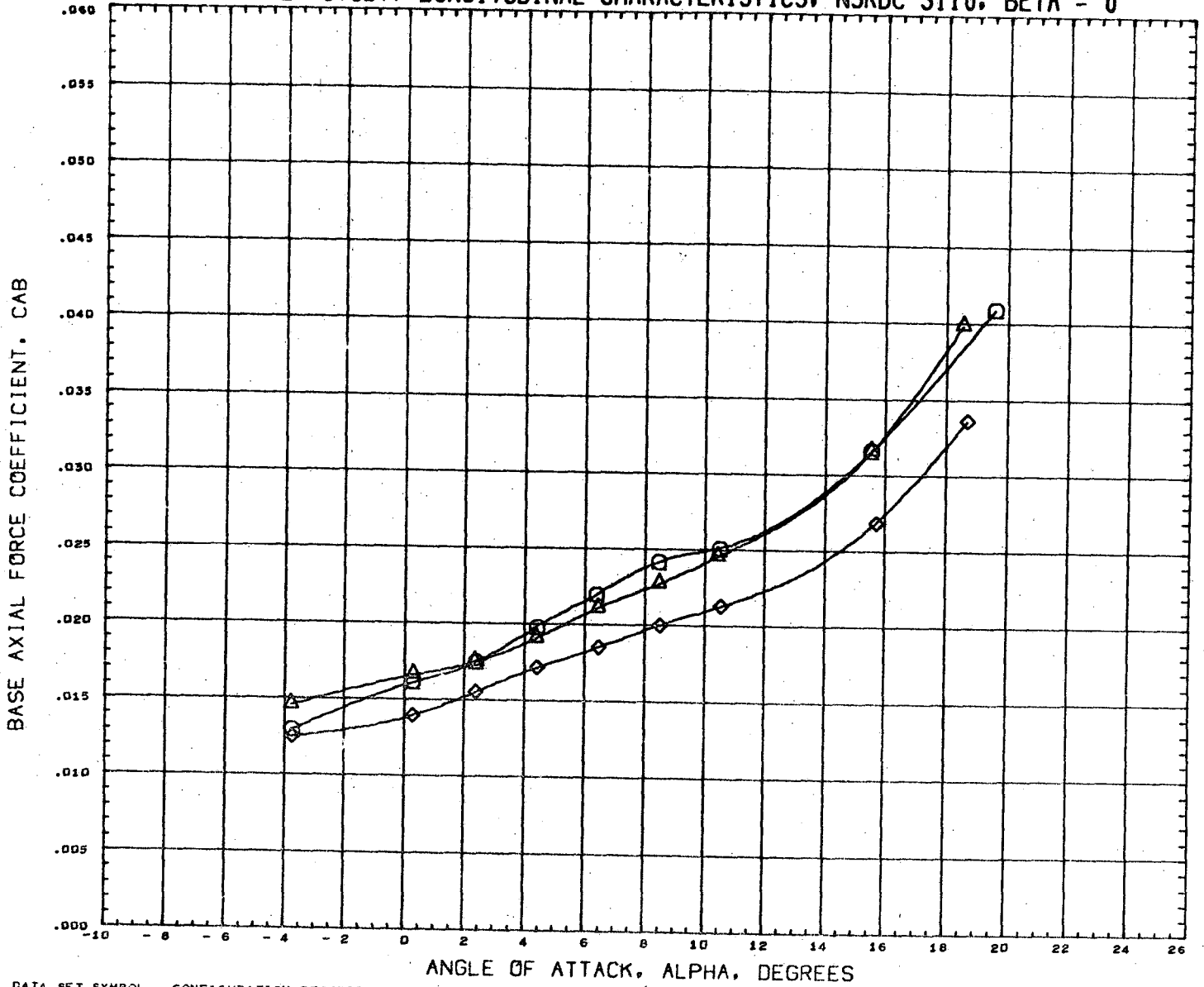
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2053)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2245)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2305)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

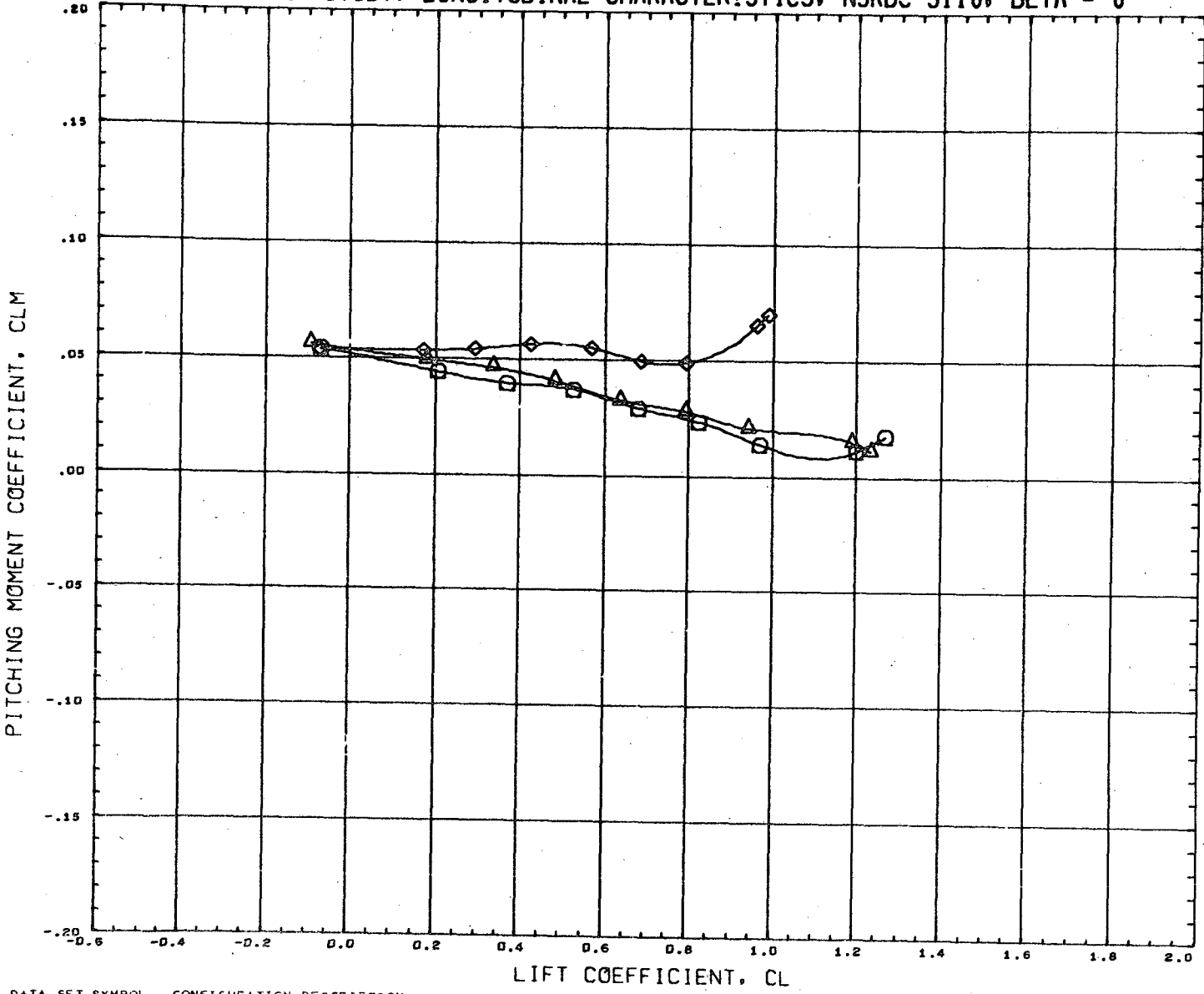
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS	REFERENCE INFORMATION	
(RN2053)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000	SREF	1.3550 SQ.FT.
(RN2245)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF	41.4360 INCHES
(RN2305)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.301

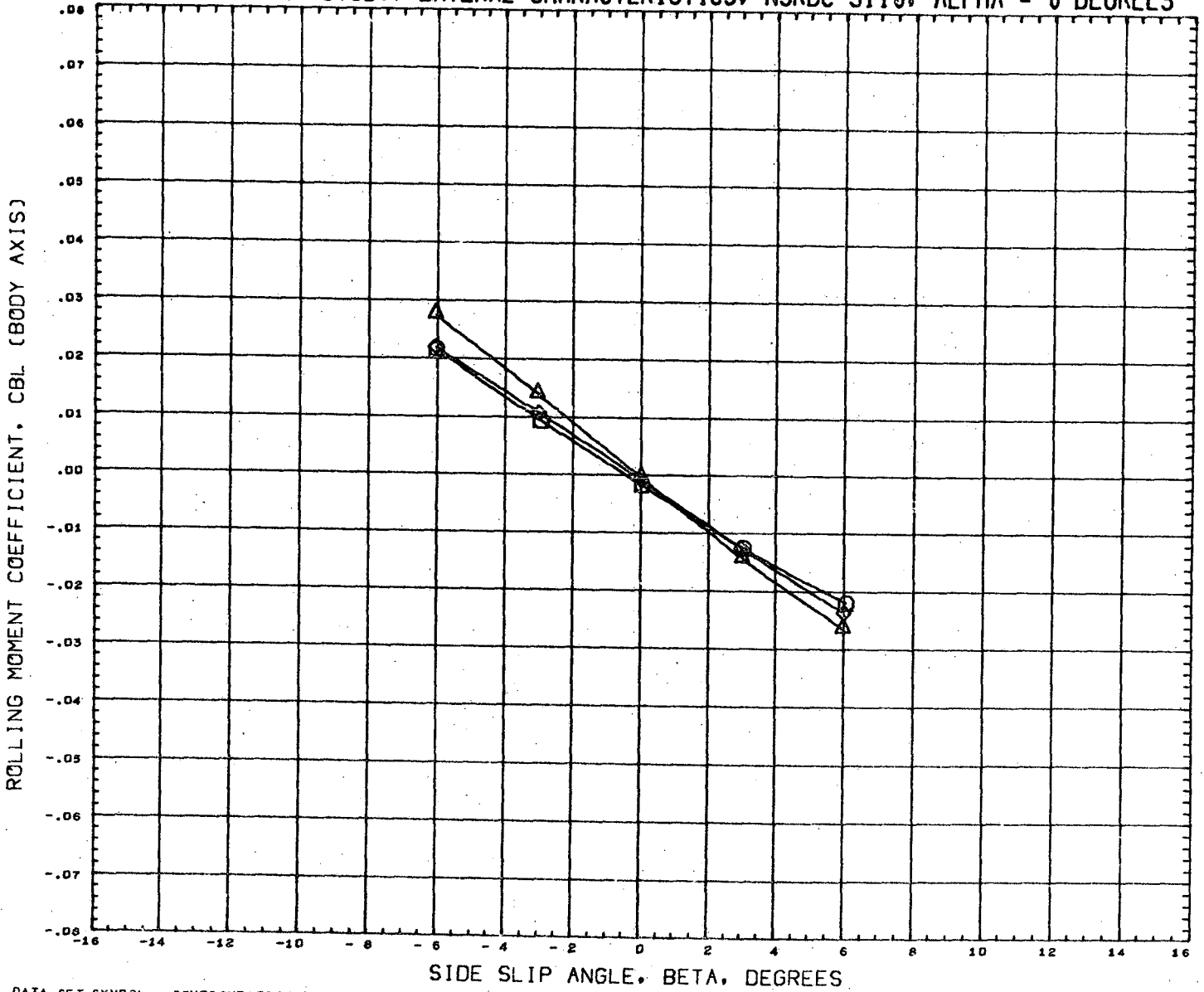
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2053)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2245)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2305)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

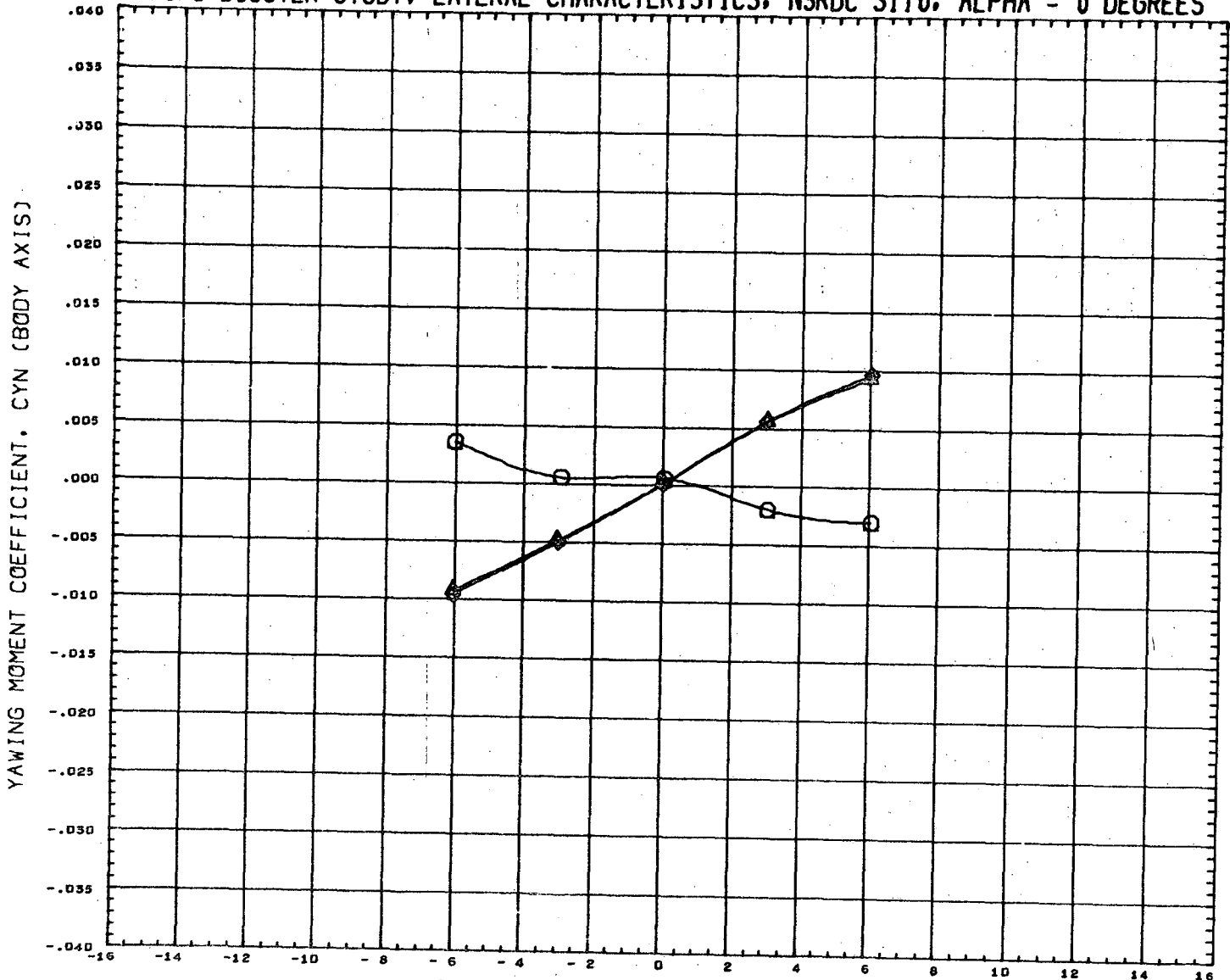
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2054) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2246) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2306) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

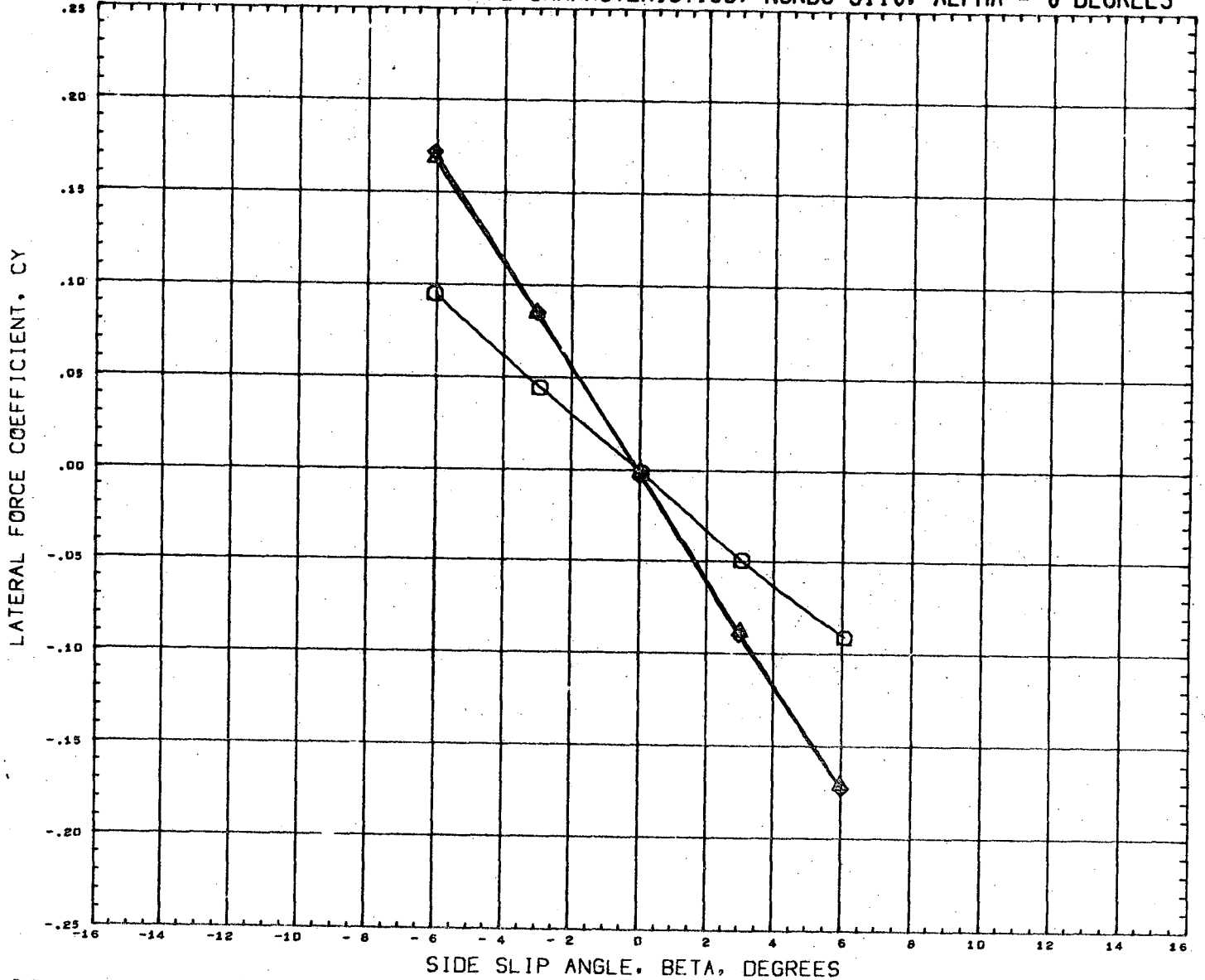
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2054) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2246) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2306) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

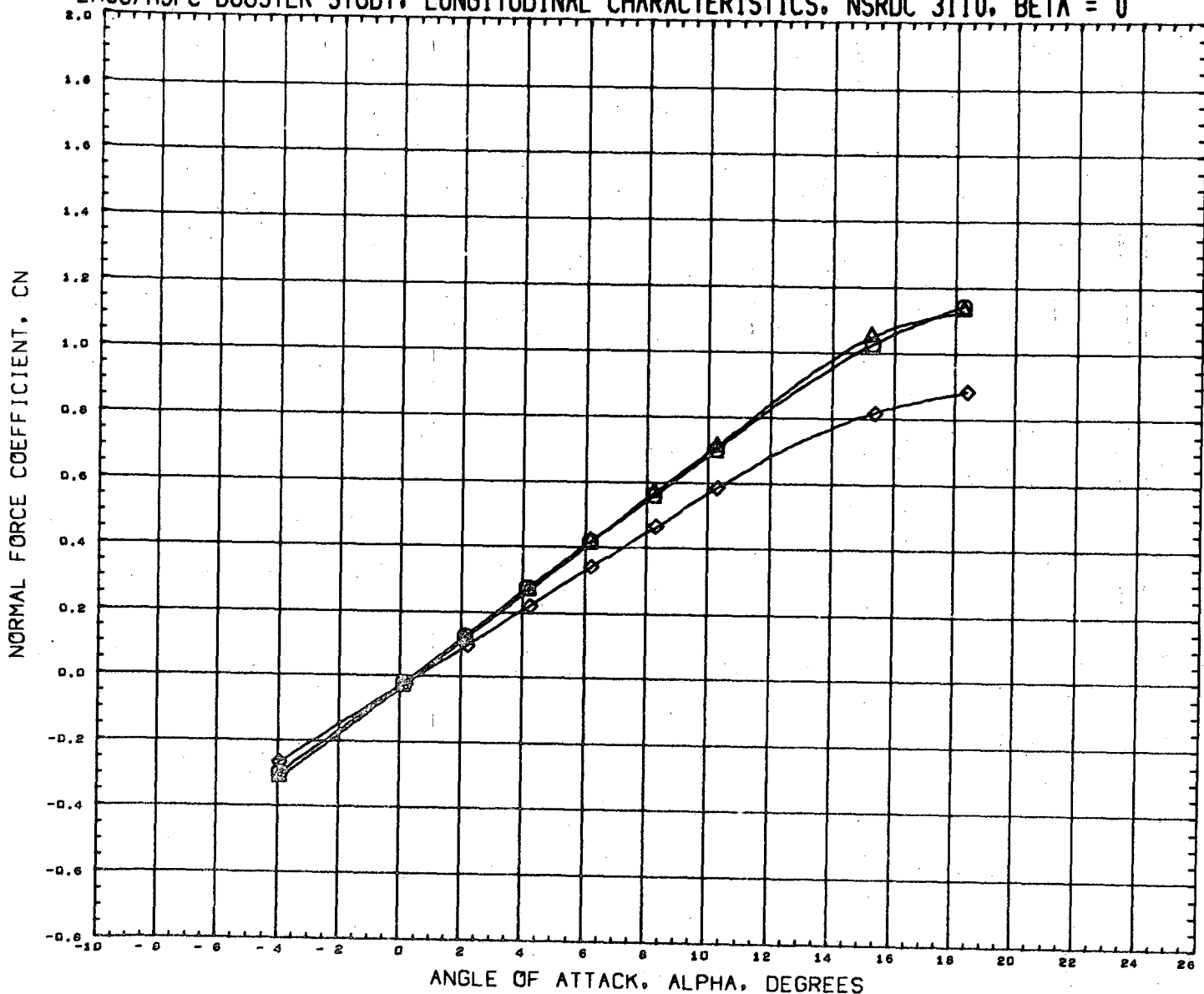
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2054)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2246)	NSRDC-3110,MSFC/LMSC BOOSTER B1C3F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
(RN2306)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

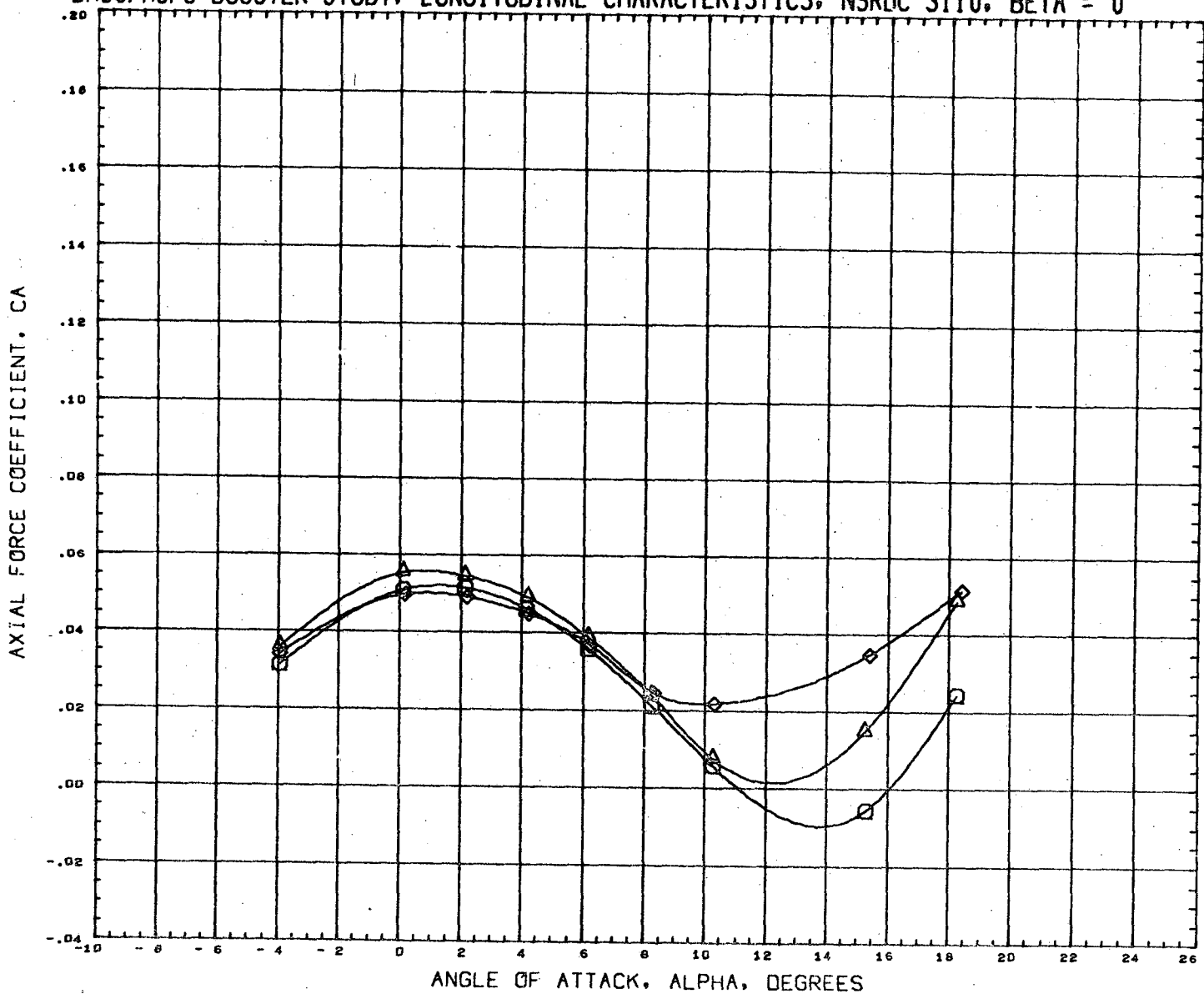
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2025)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2217)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2277)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

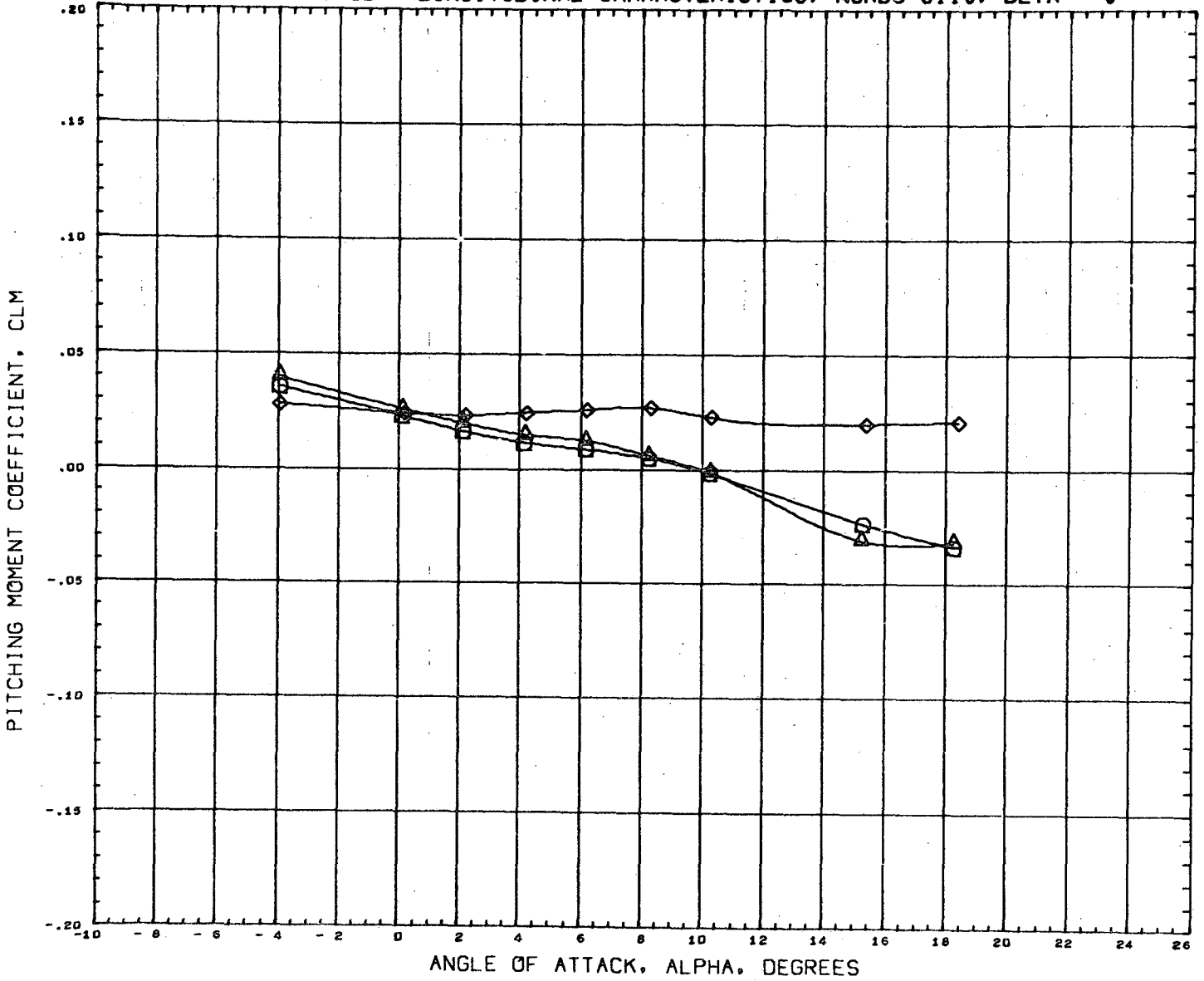
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2025) ○	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2217) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2277) ◇	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.382

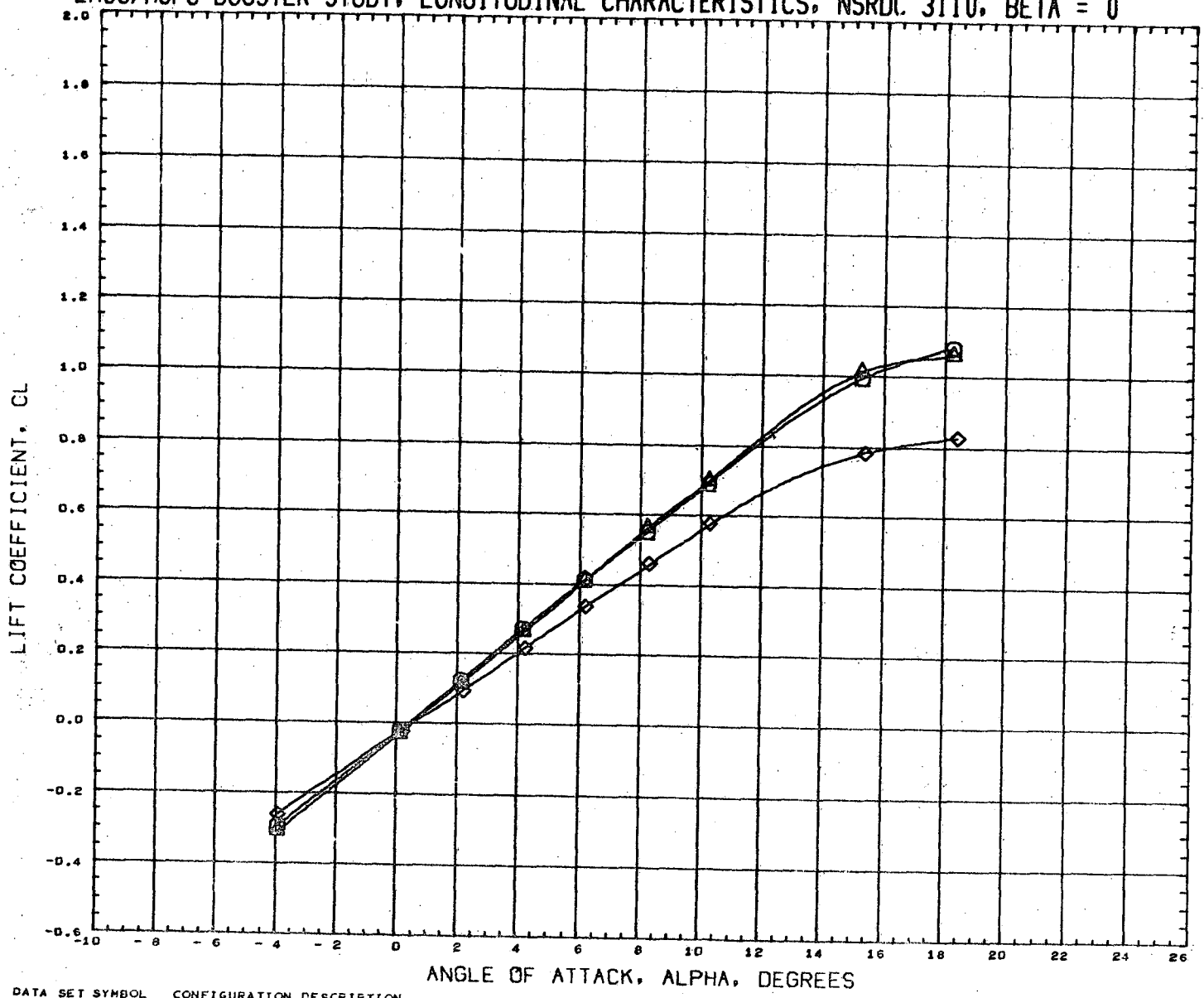
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS	REFERENCE INFORMATION
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2277)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.302

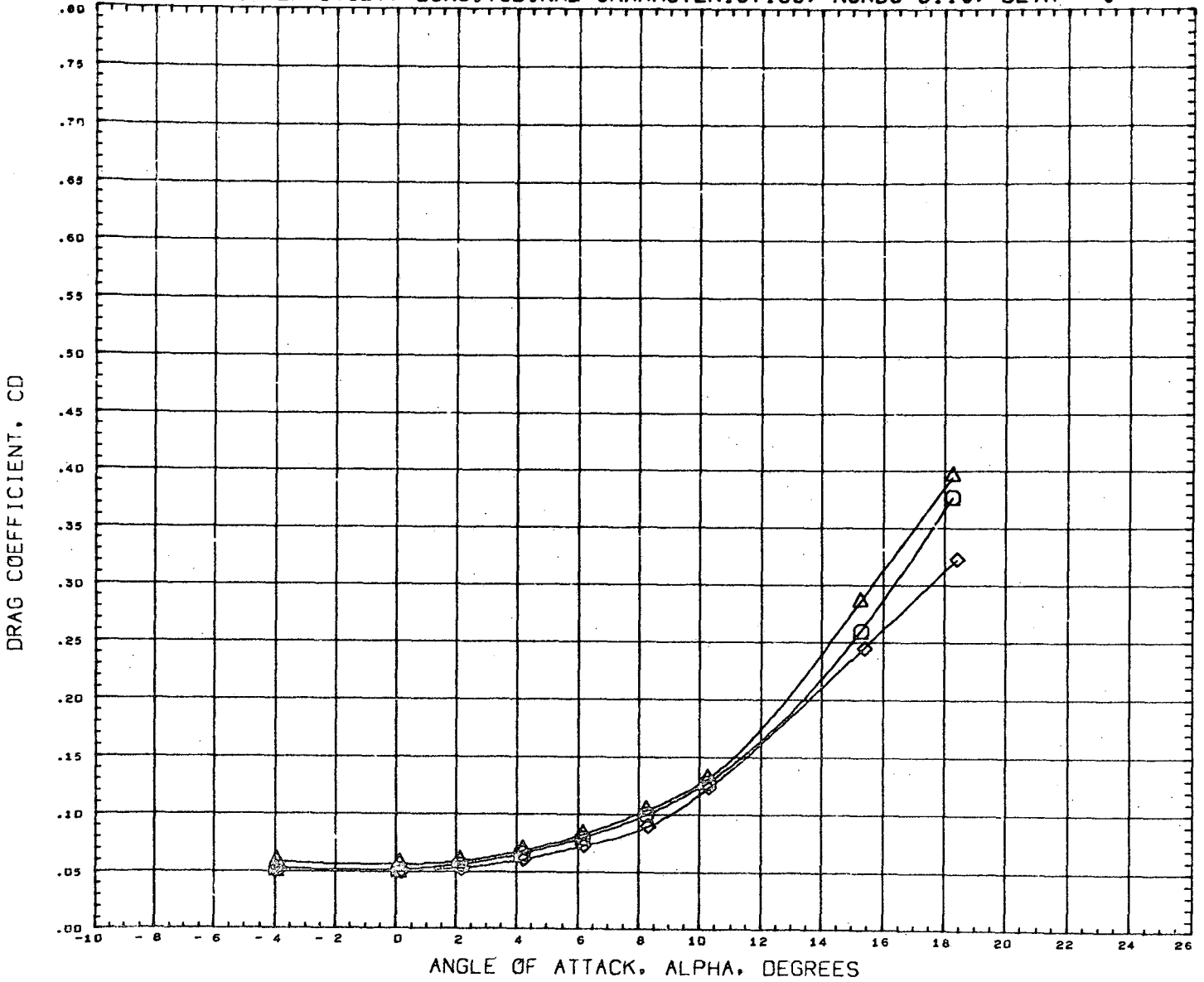
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2025) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2217) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2277) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.382

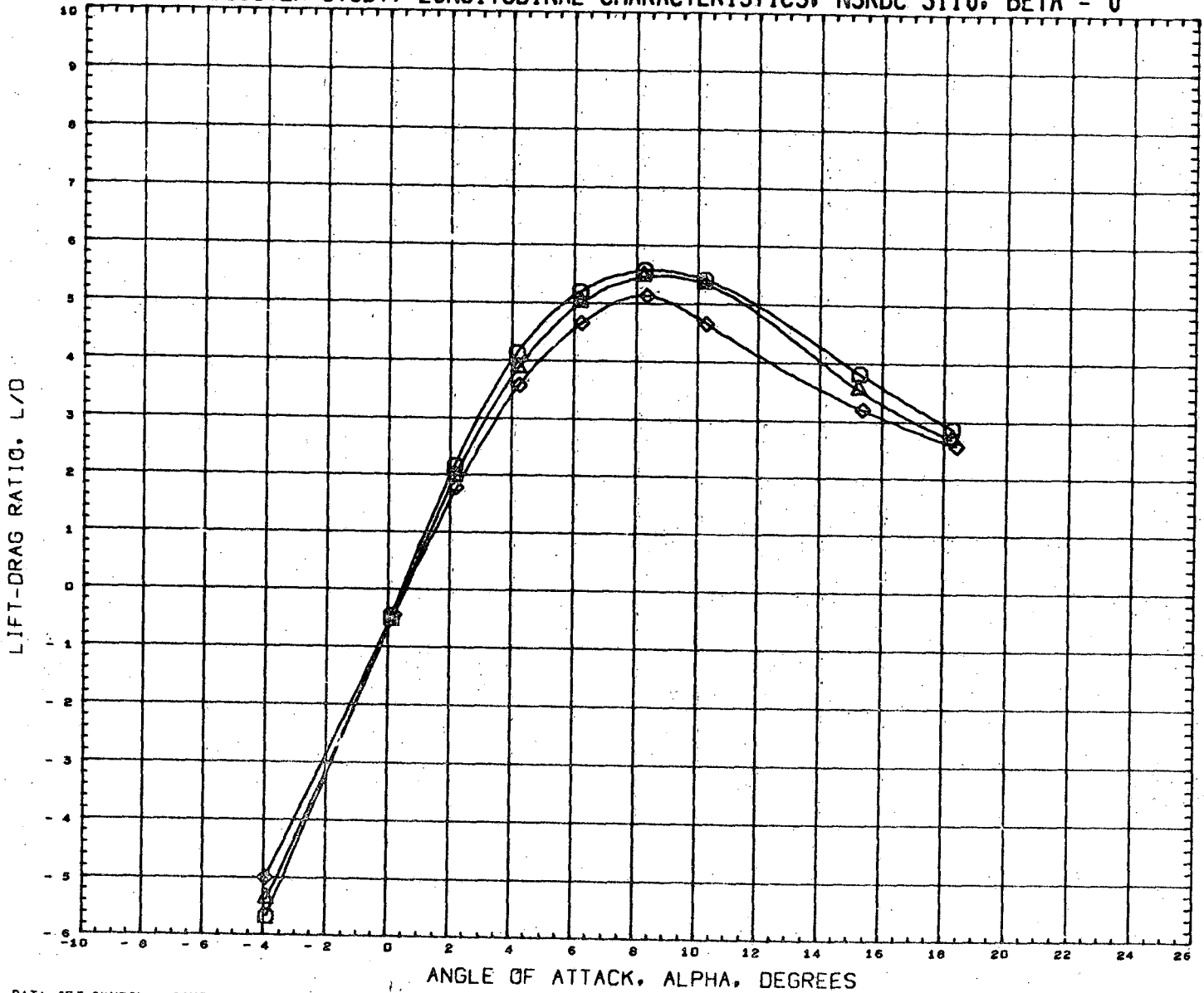
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2277)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

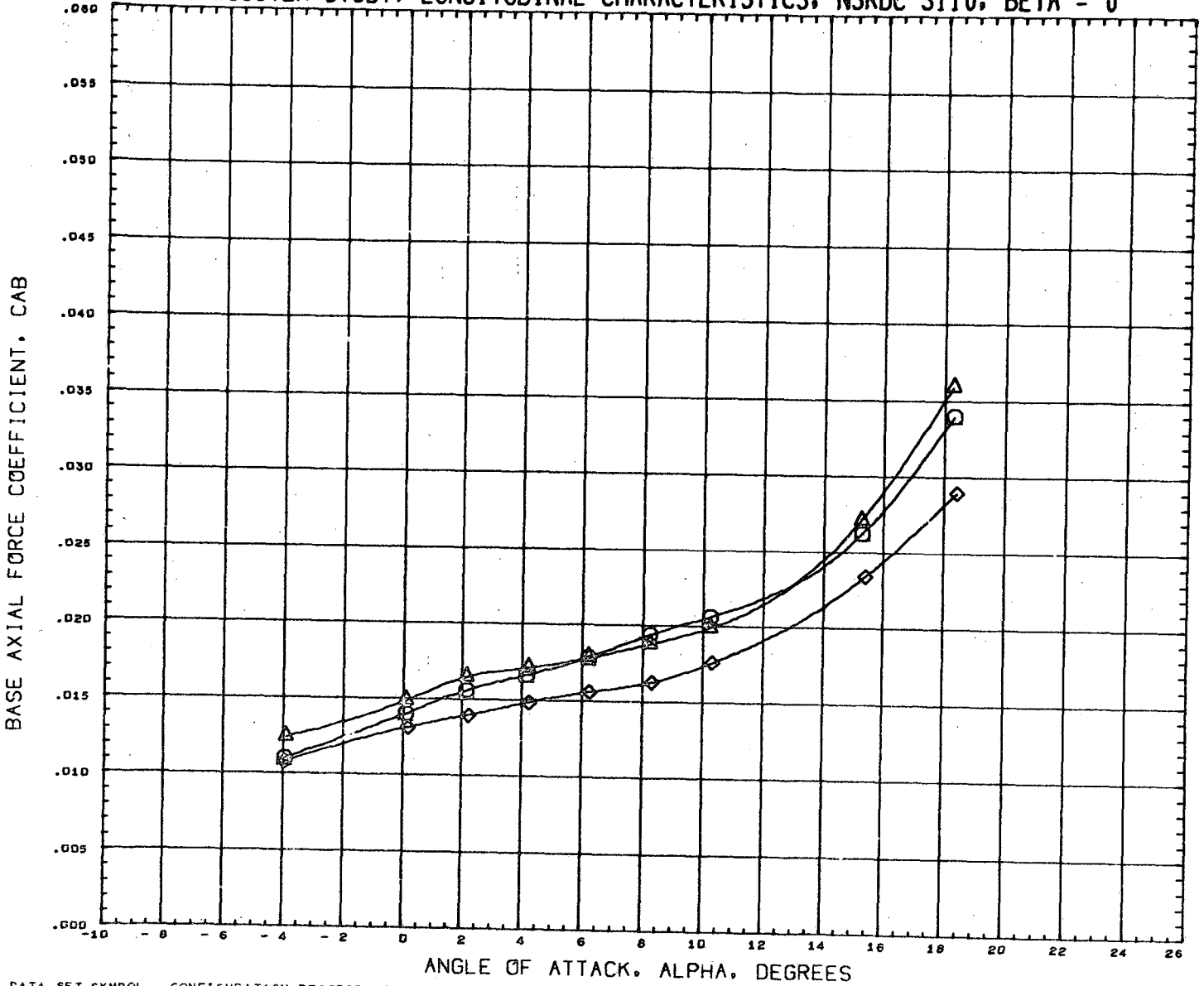
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	SREF	1.3550 SQ.FT.
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF	41.4360 INCHES
(RN2277)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	BREF	41.4360 INCHES
						XNRP	31.1400 INCHES
						YNRP	0.0000 INCHES
						ZNRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.382

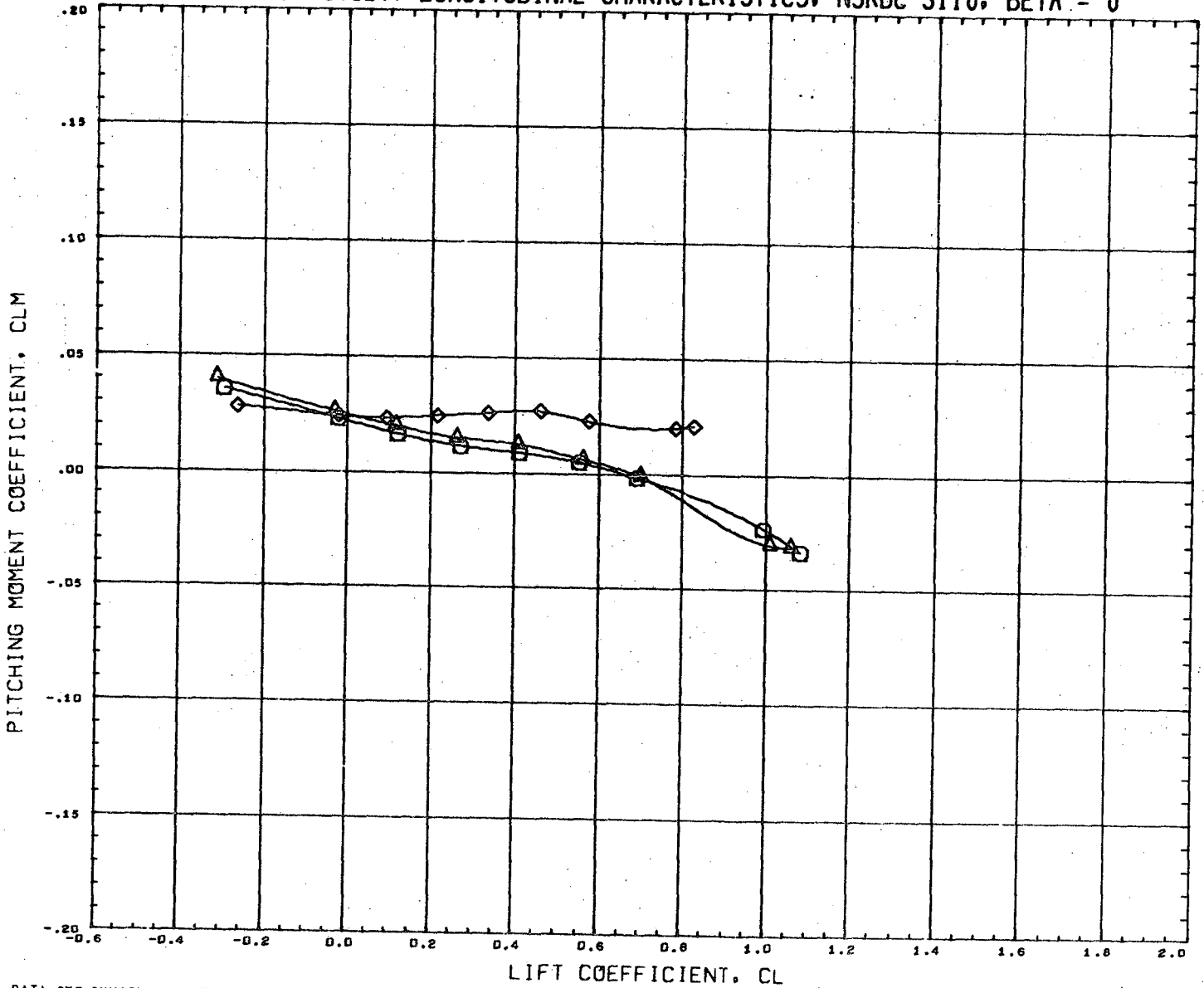
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2225)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2277)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

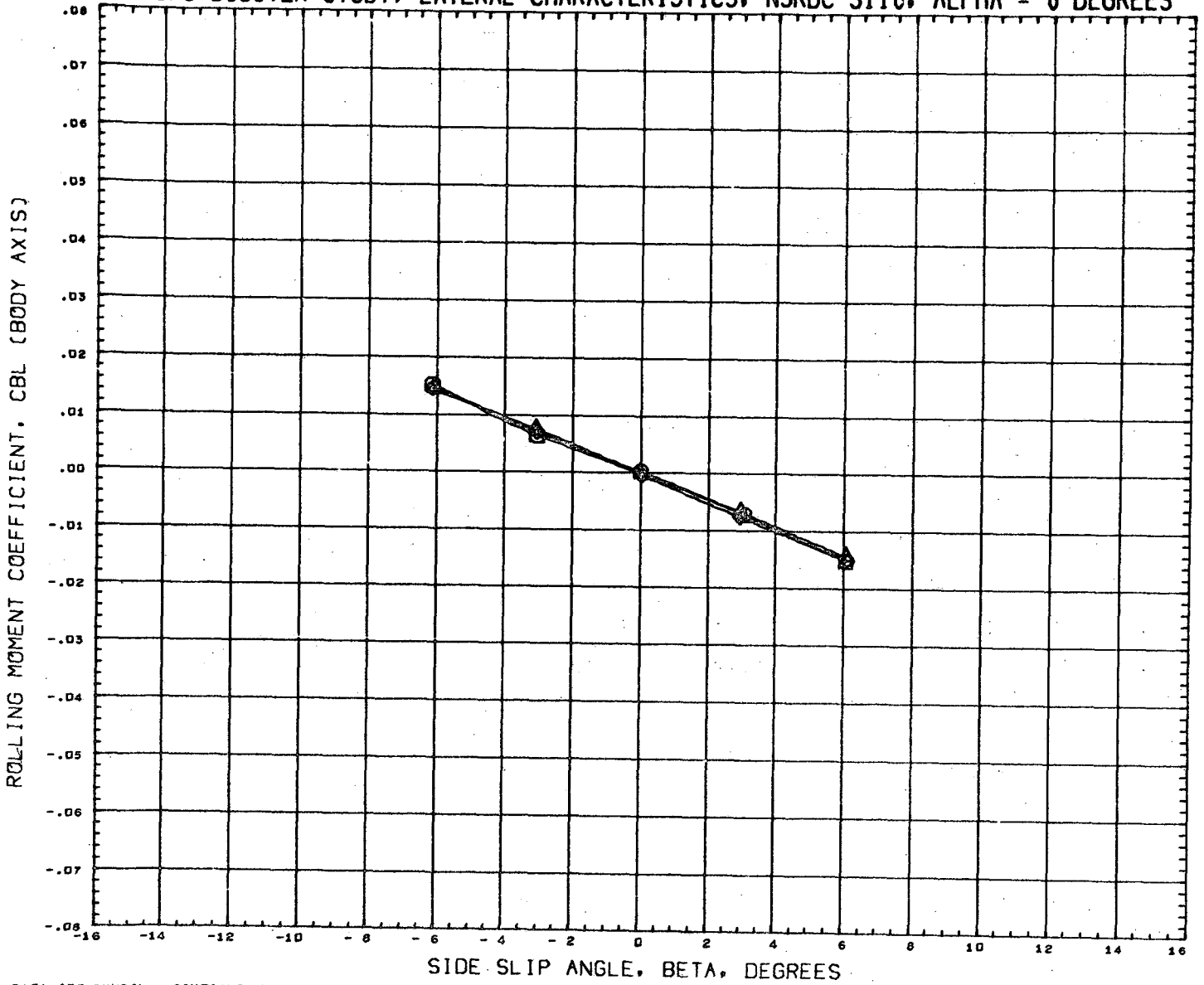
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2025)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	SREF	1.3550 SQ.FT.
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF	41.4360 INCHES
(RN2277)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.382

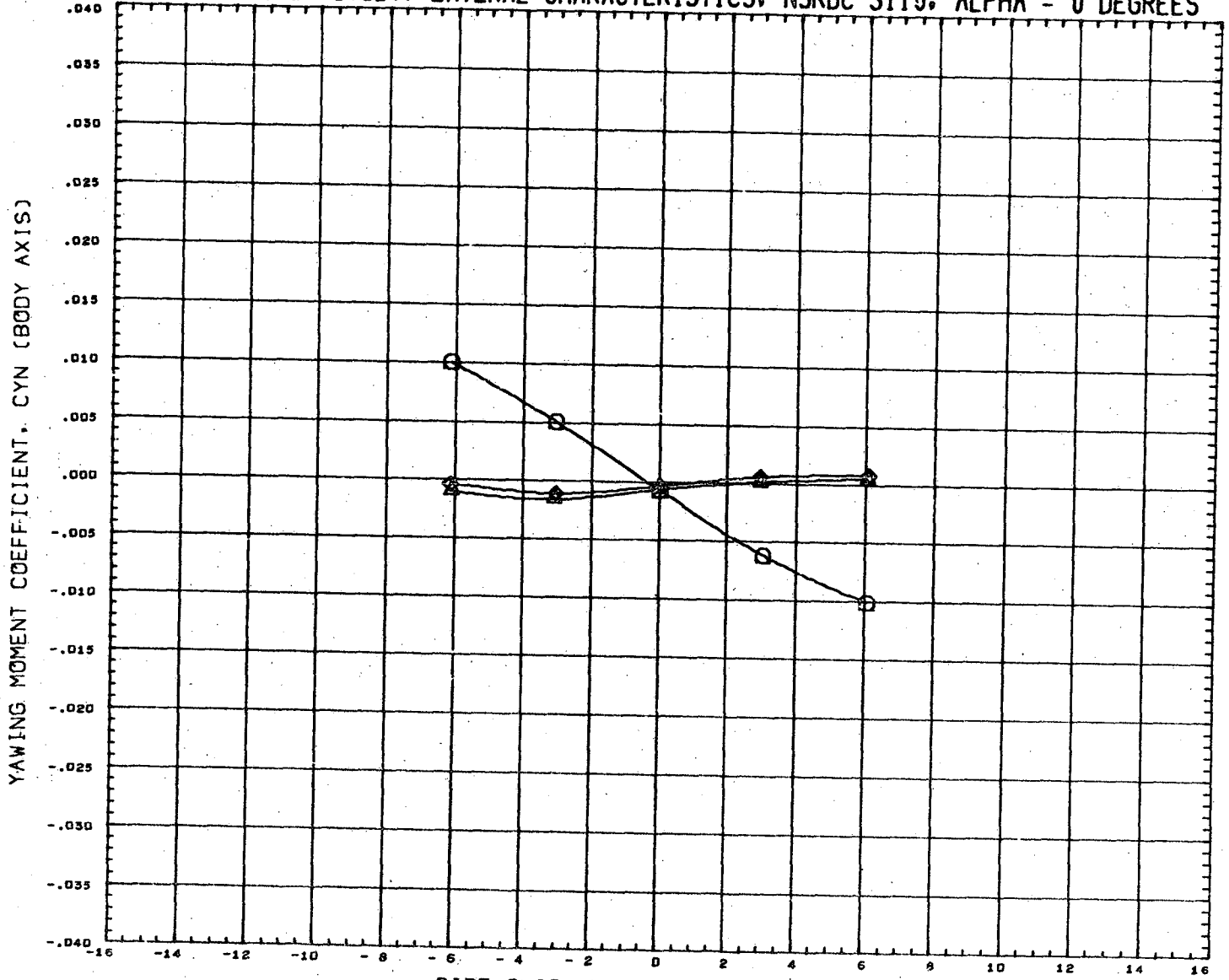
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2026)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2218)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2278)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.361

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

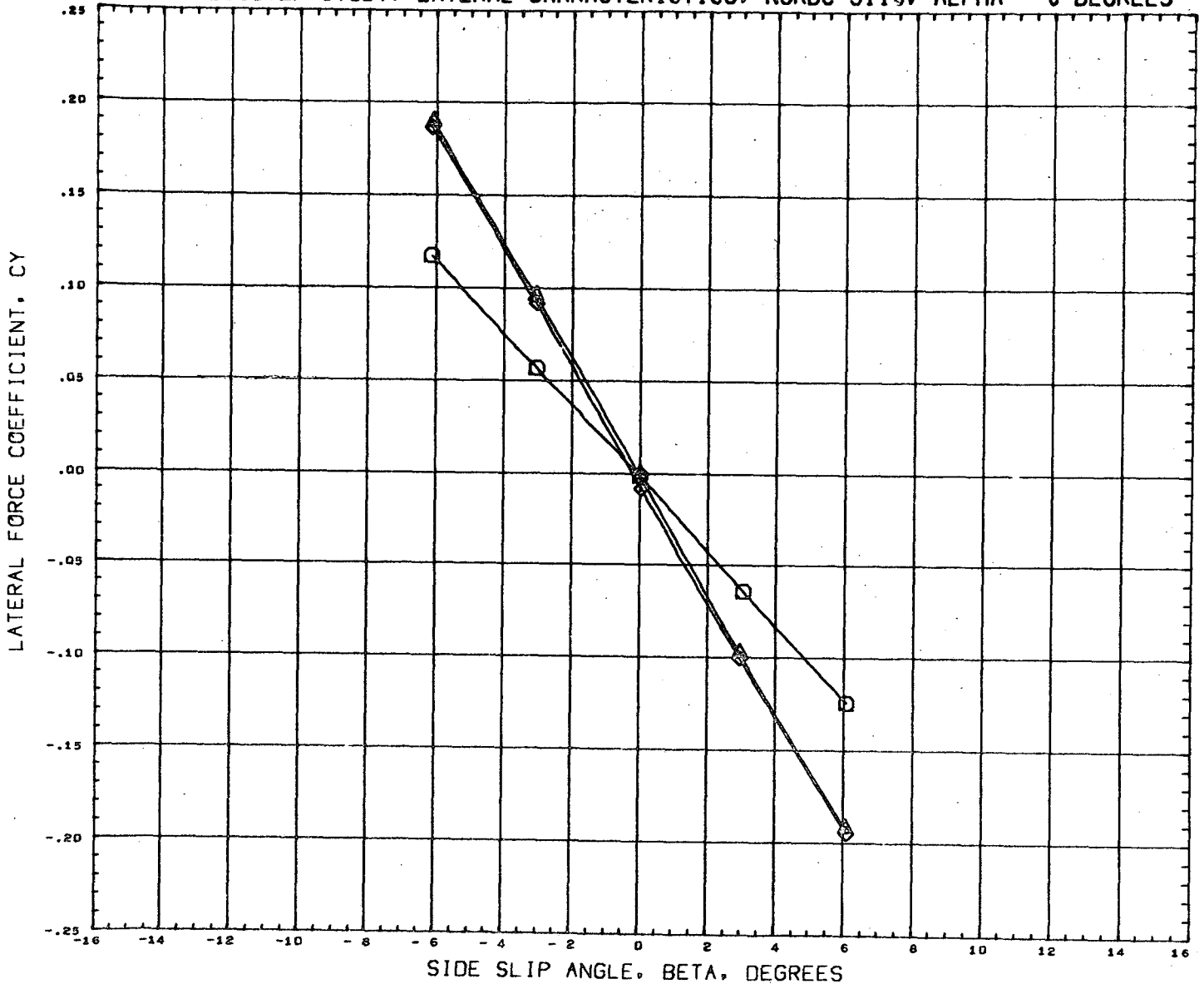


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2026)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2218)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2278)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

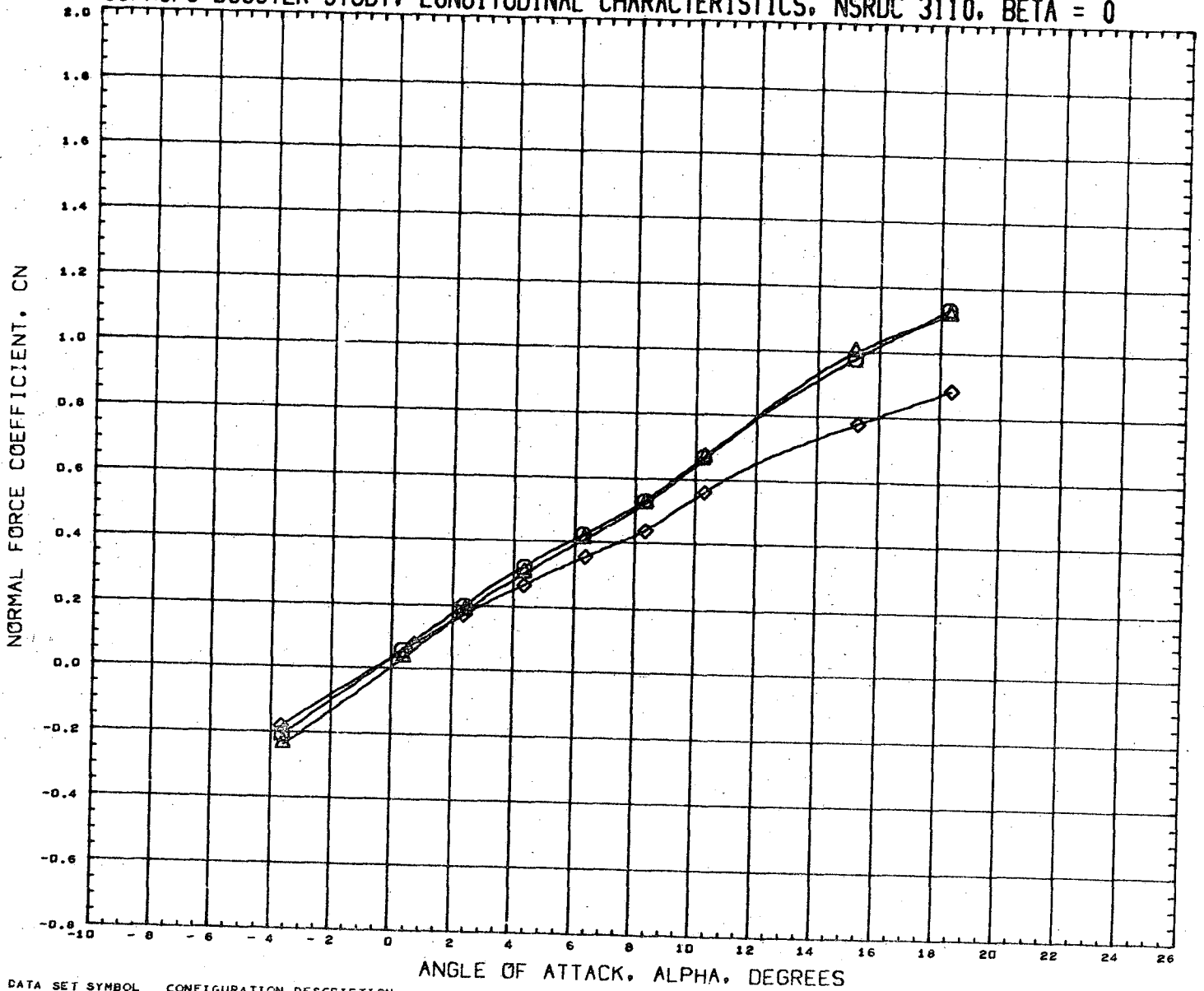
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2026)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2210)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2278)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 71.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

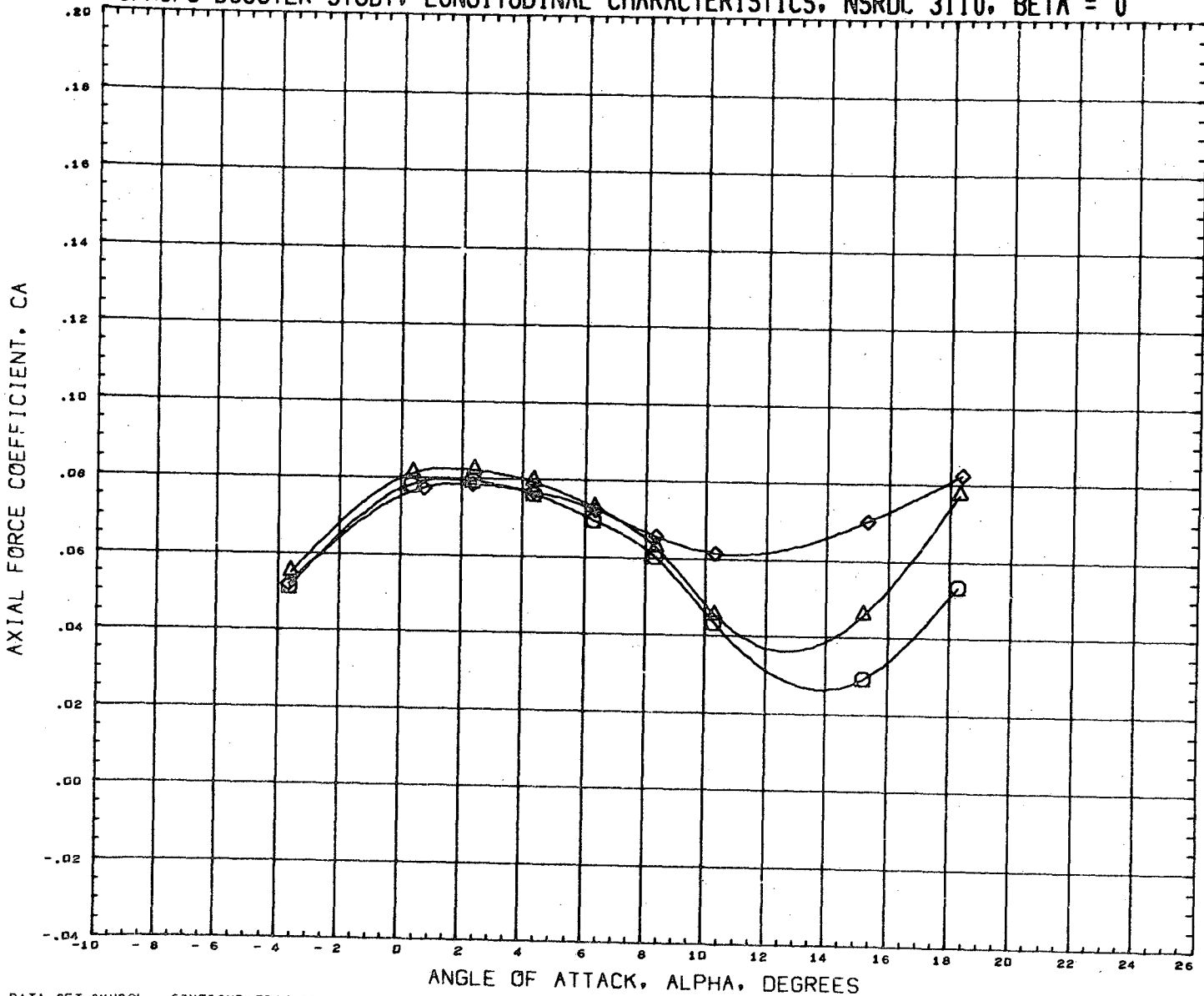
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2029)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2221)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2281)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

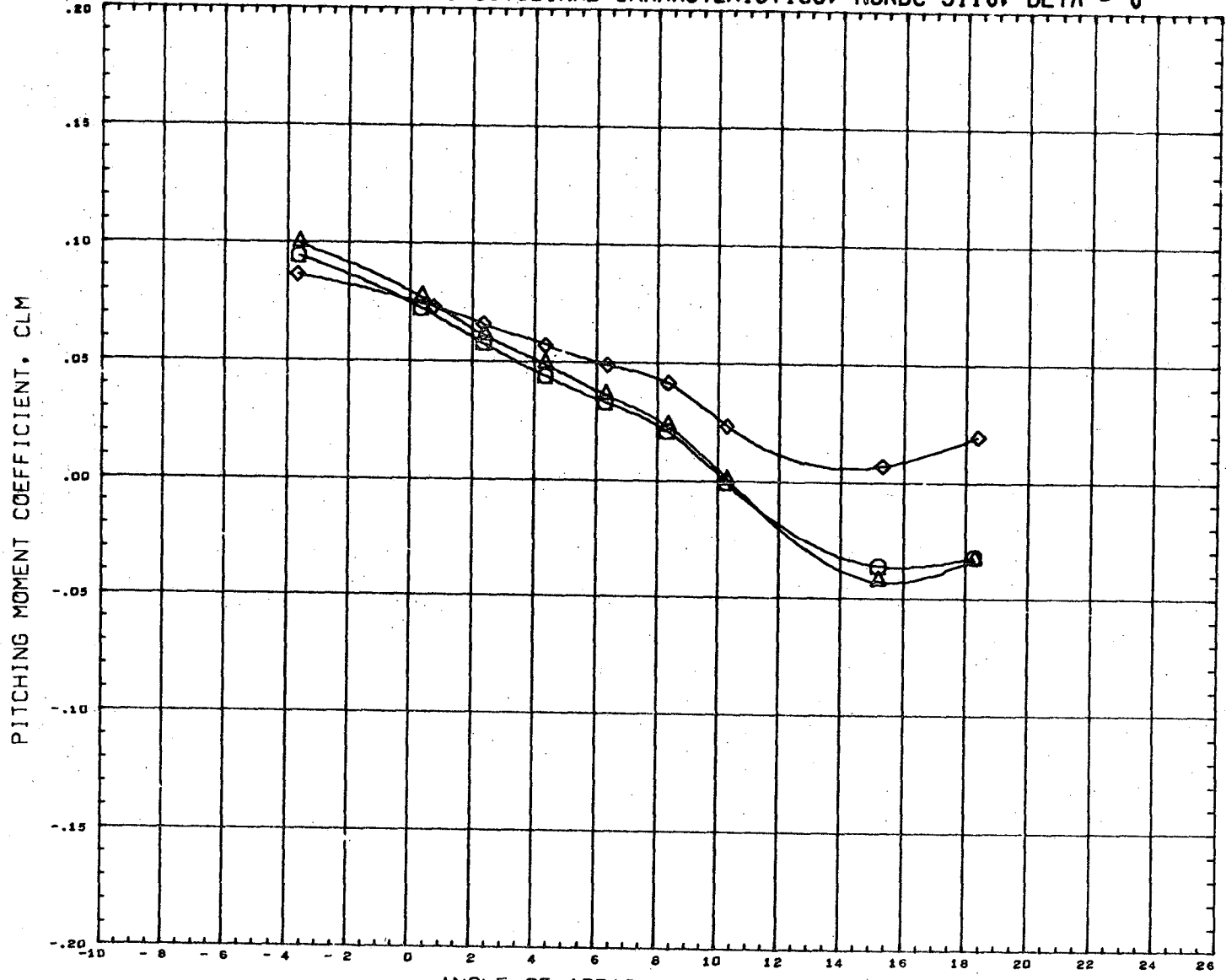
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2029)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2221)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2281)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

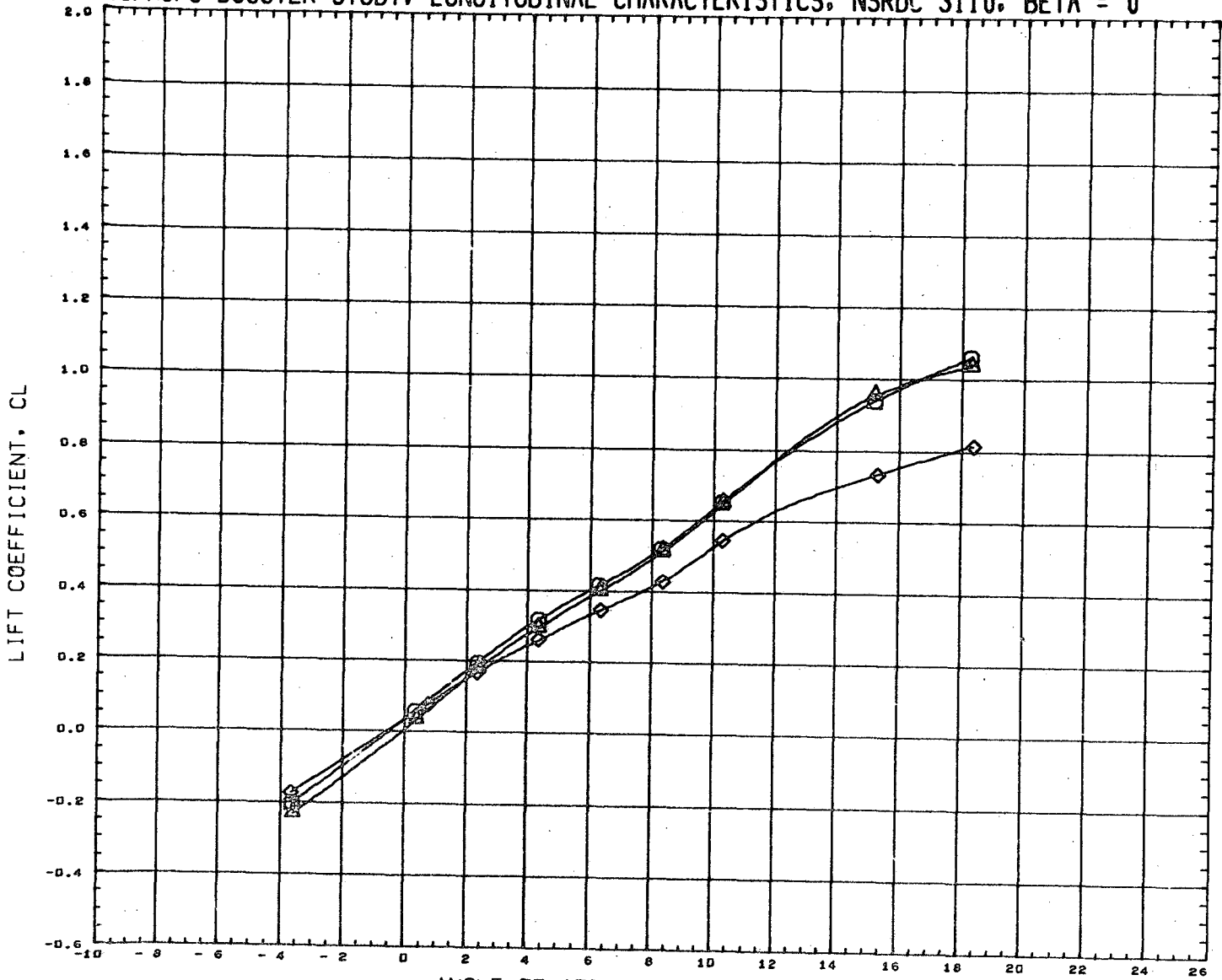


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	SREF	1.3550 SQ.FT.
(RN2221)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
(RN2281)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.361

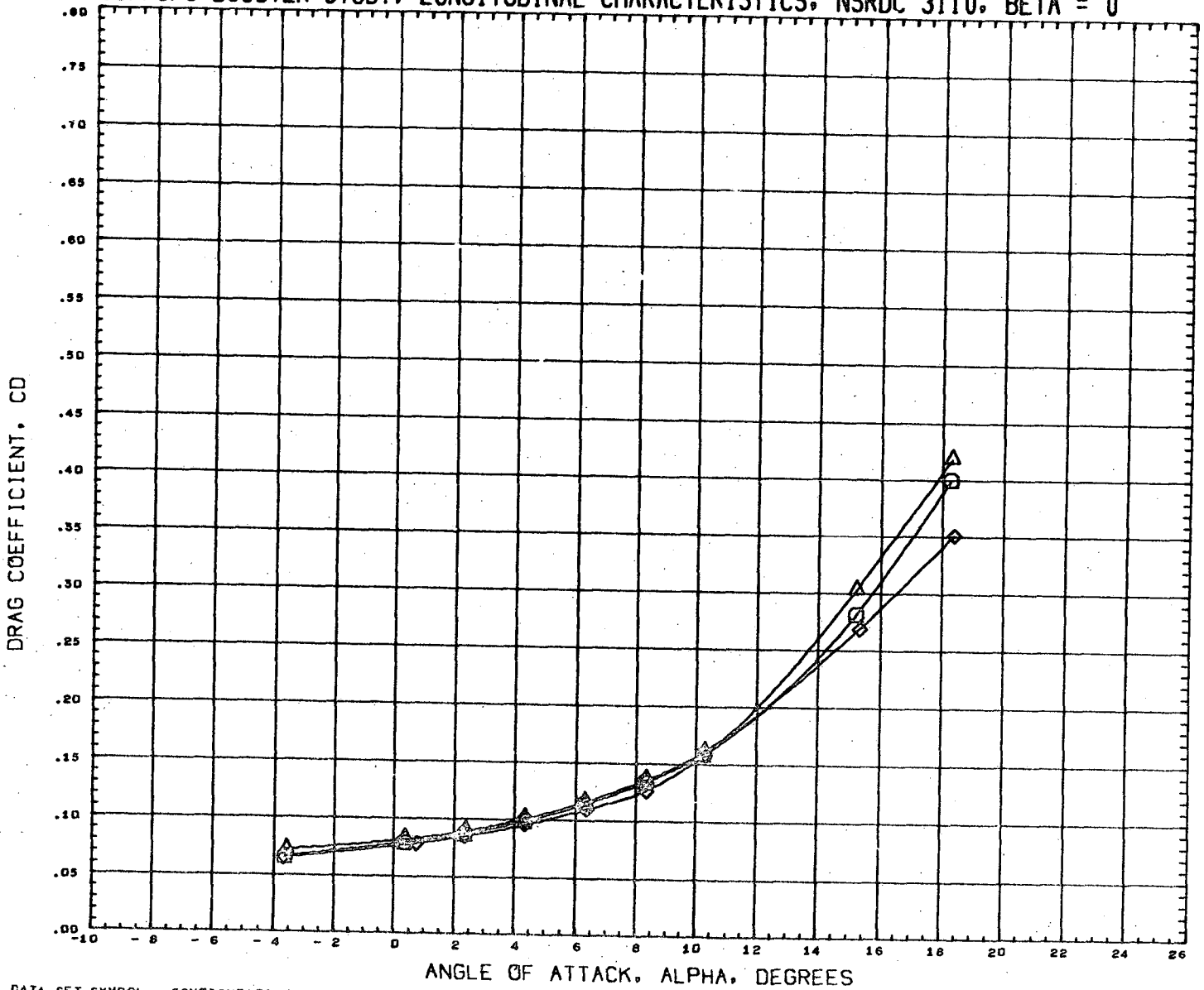
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	SREF	1.3550 SQ.FT.
(RN2221)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
(RN2281)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

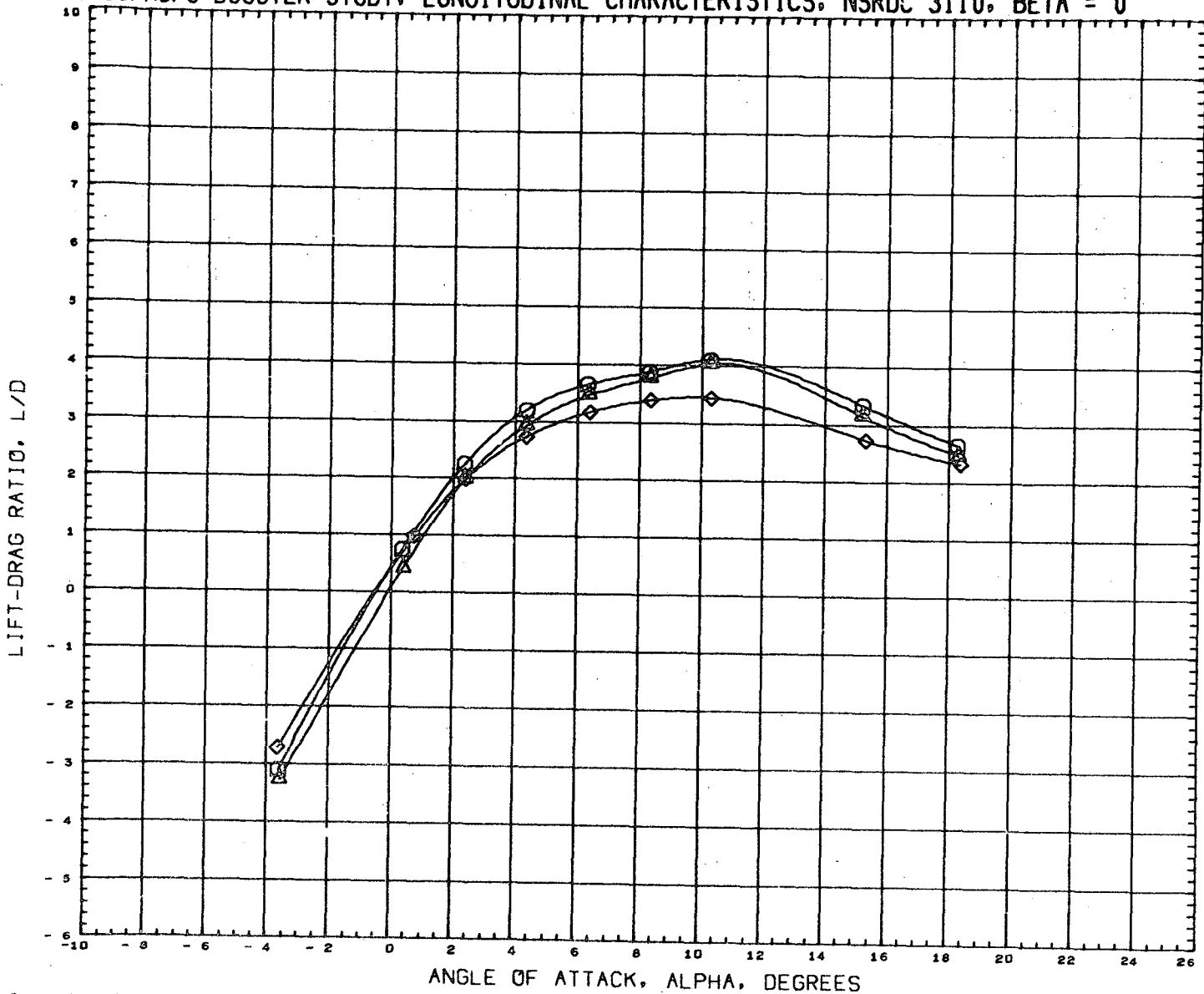
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2221)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2281)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

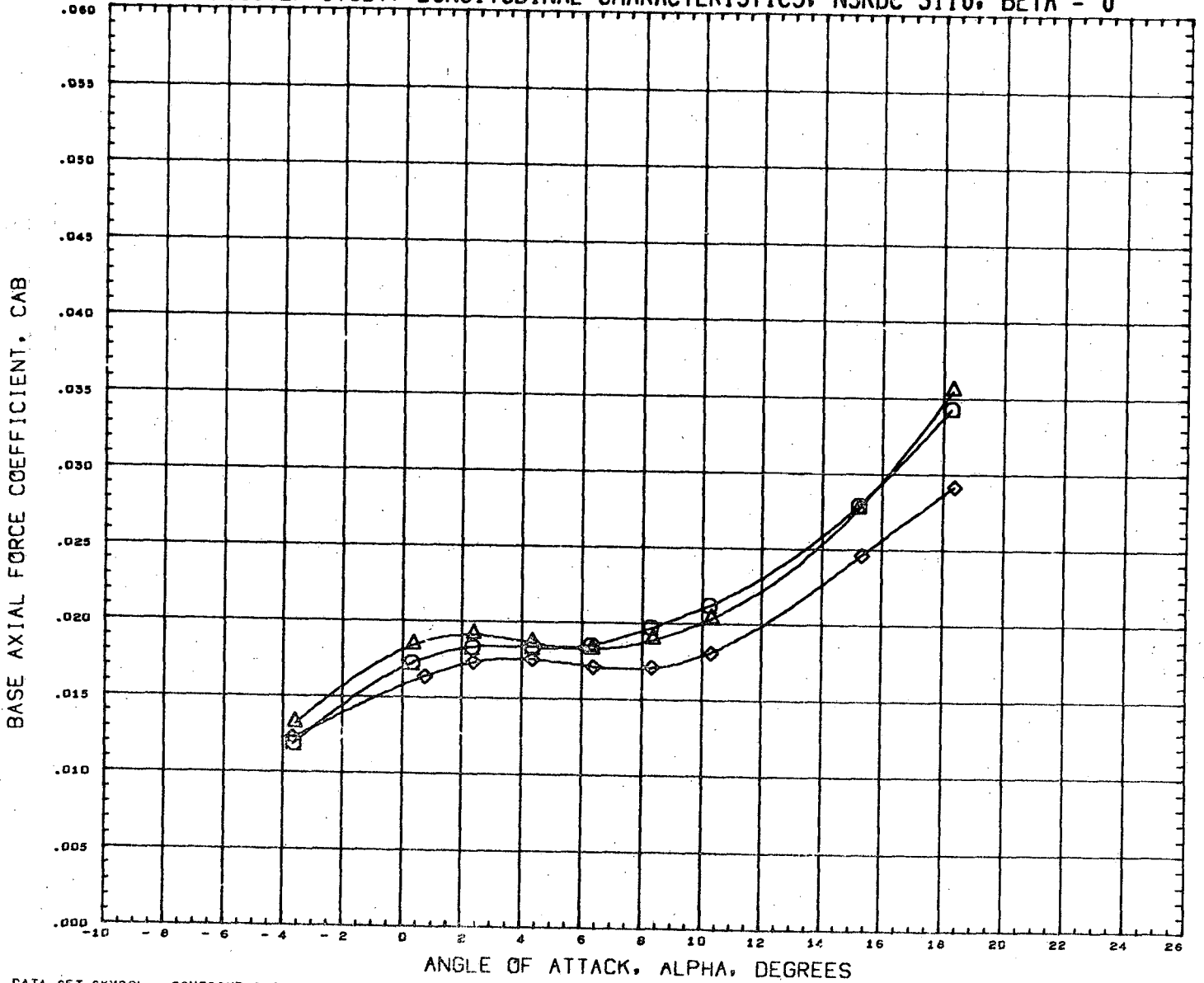
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2221)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2281)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

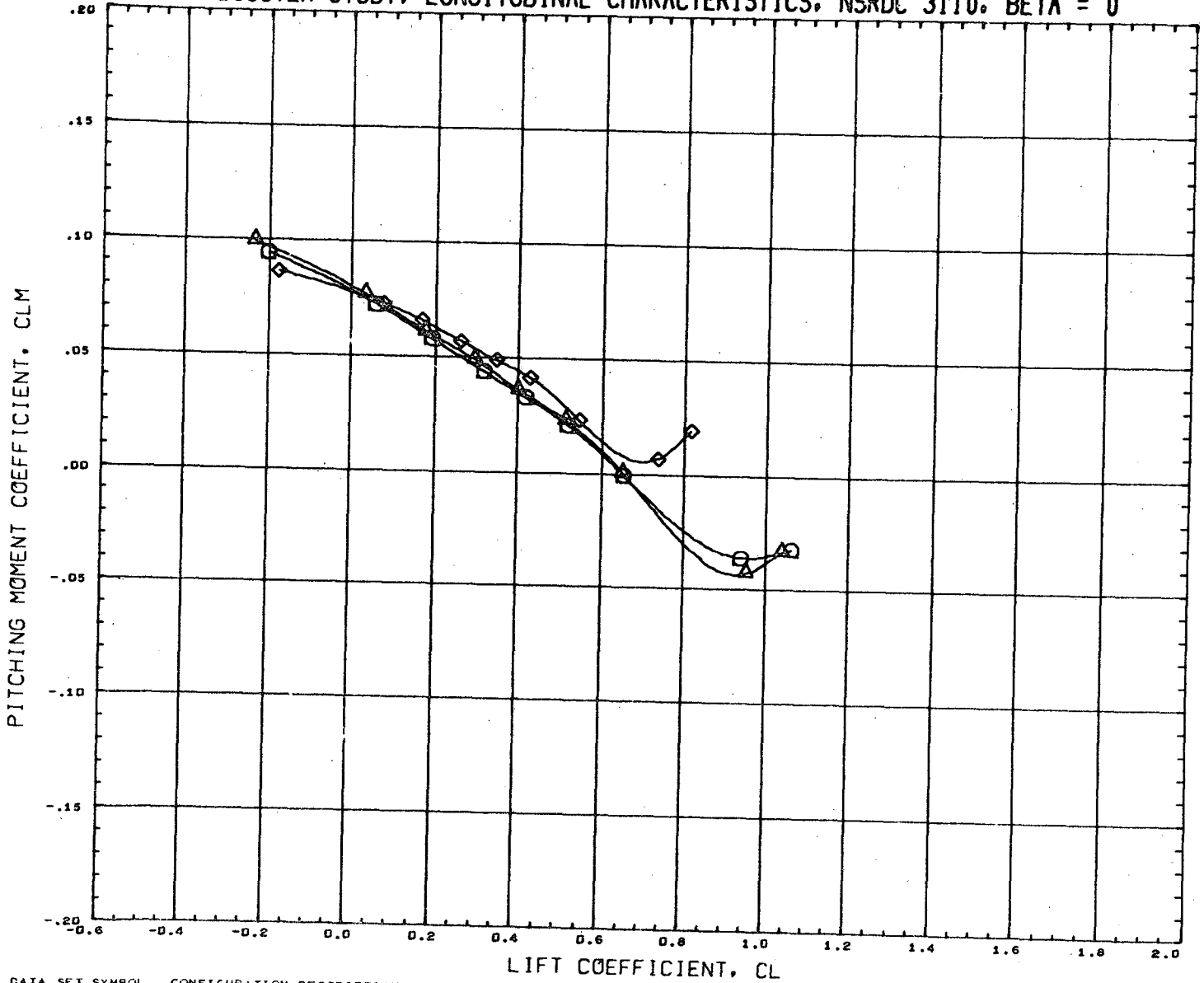
LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	SREF	1.3550 SQ.FT.
(RN2221)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
(RN2281)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.381

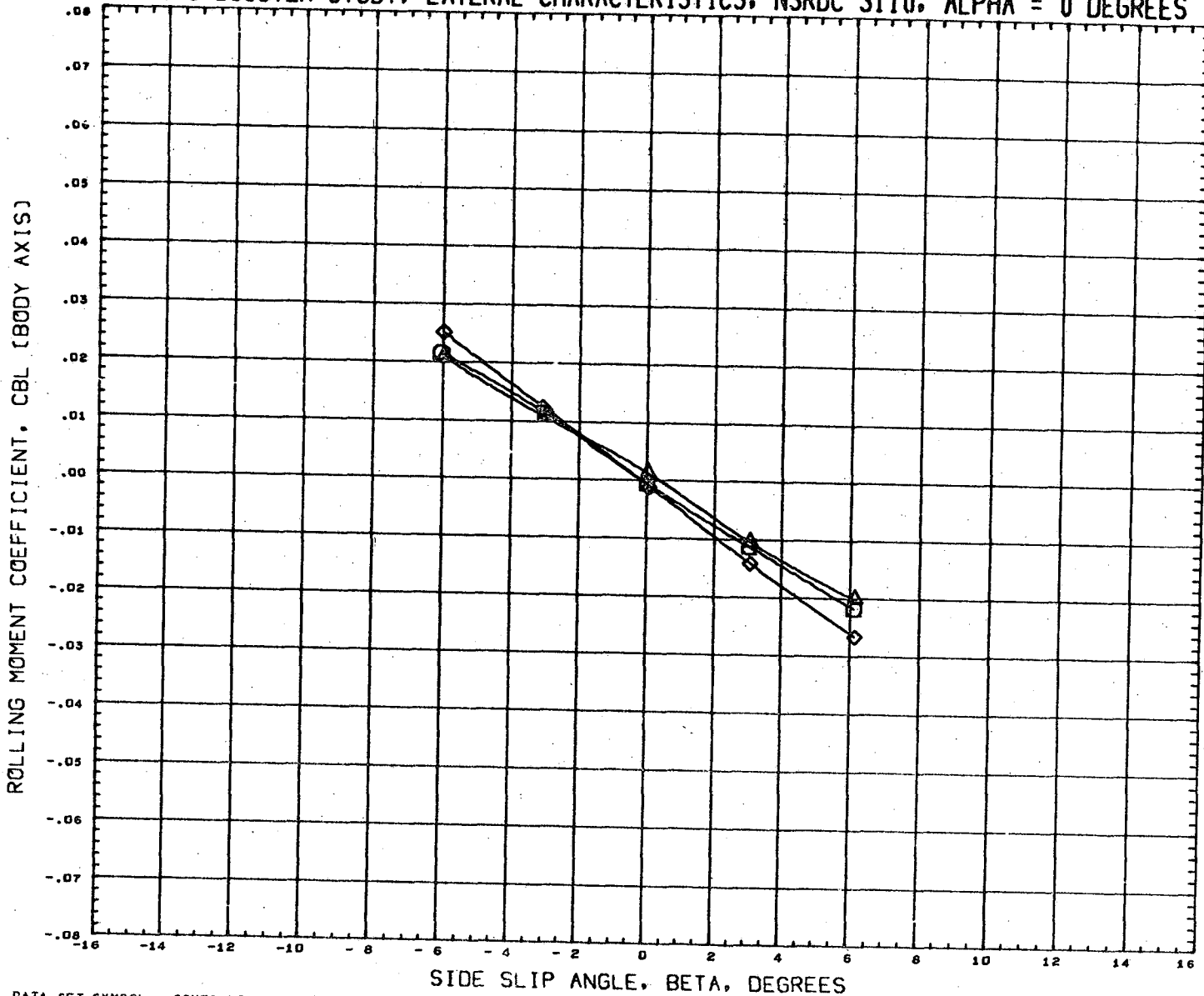
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2221)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2281)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

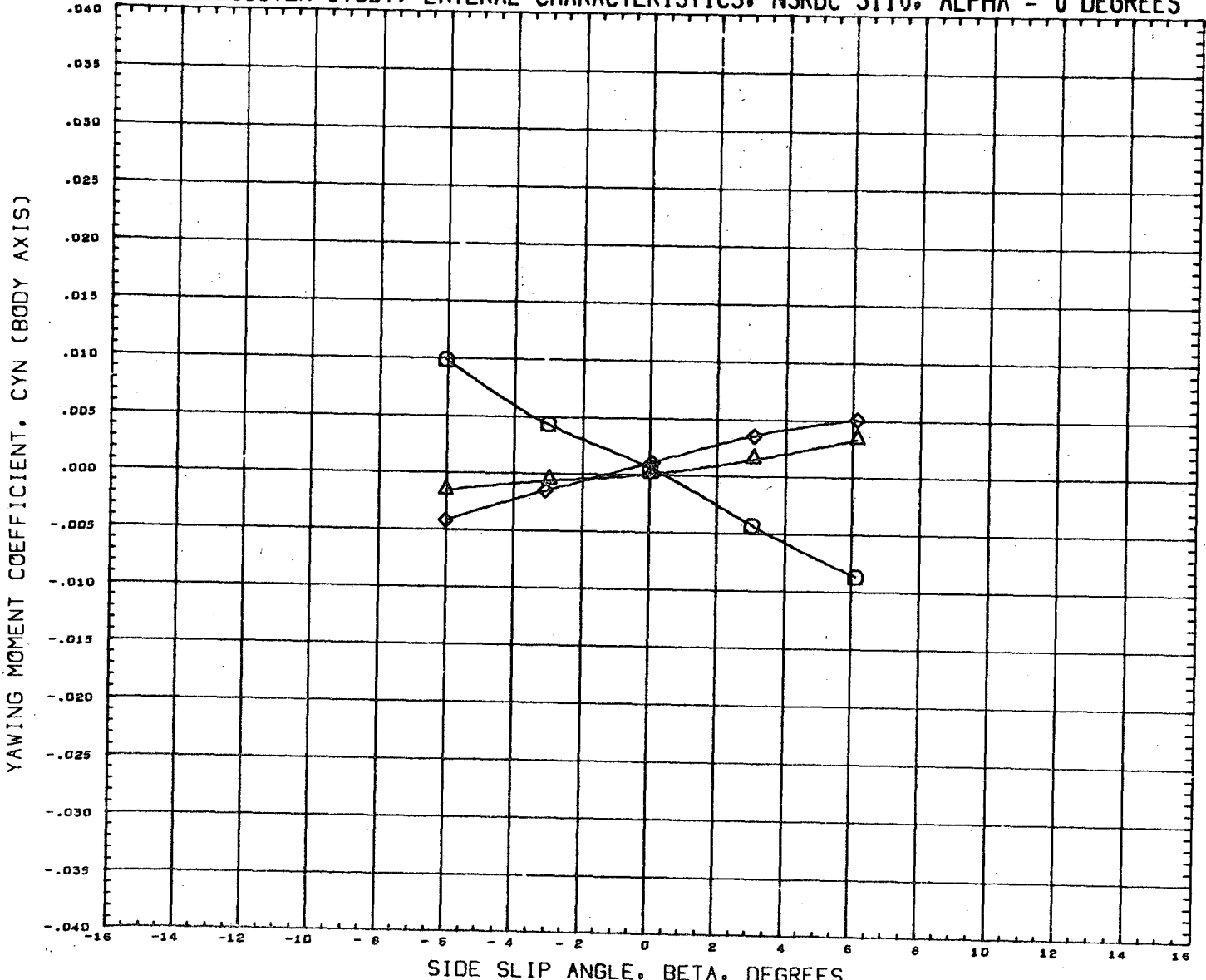
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2030) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2222) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2262) ◇	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.361

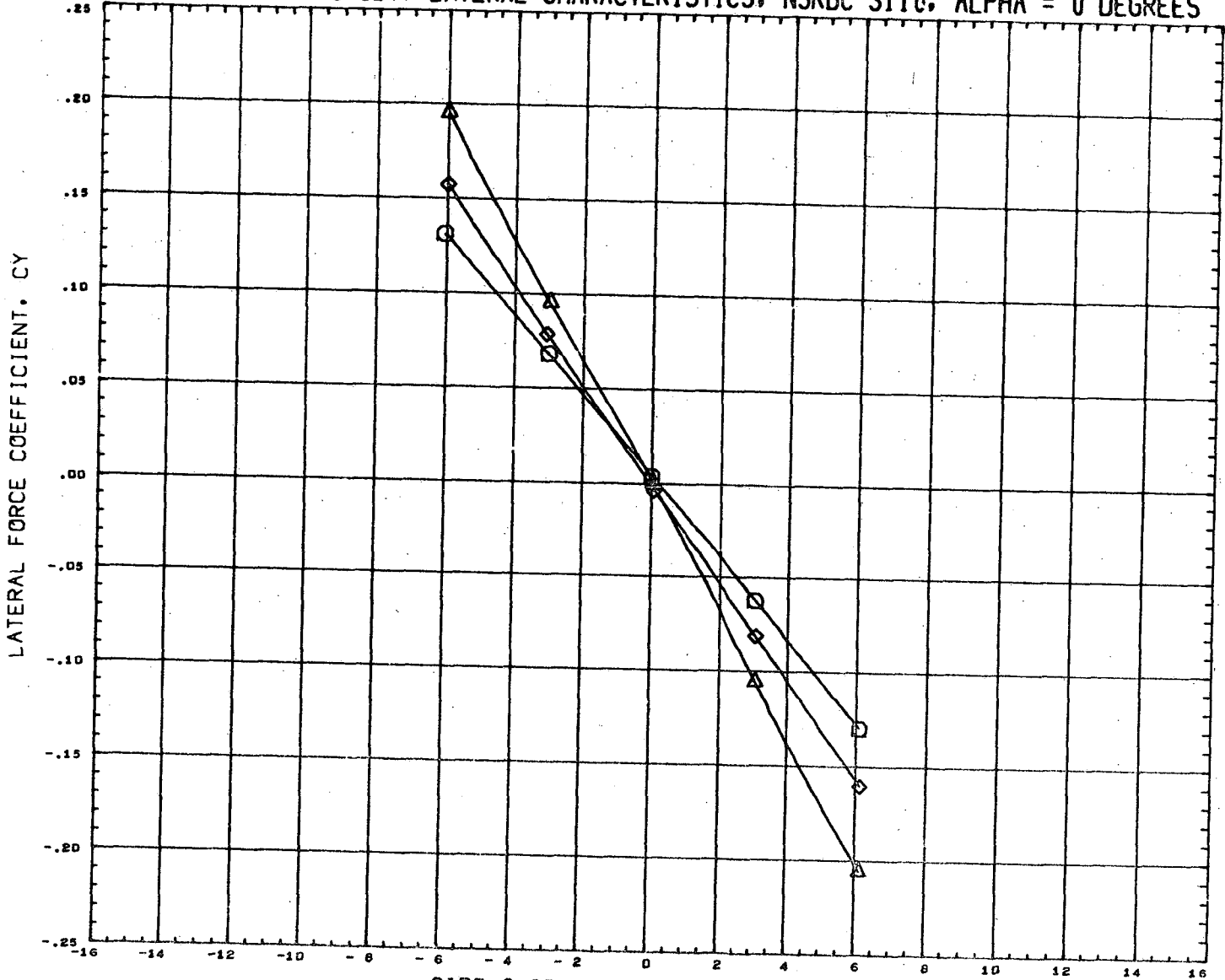
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES






DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2030)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2222)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2222)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



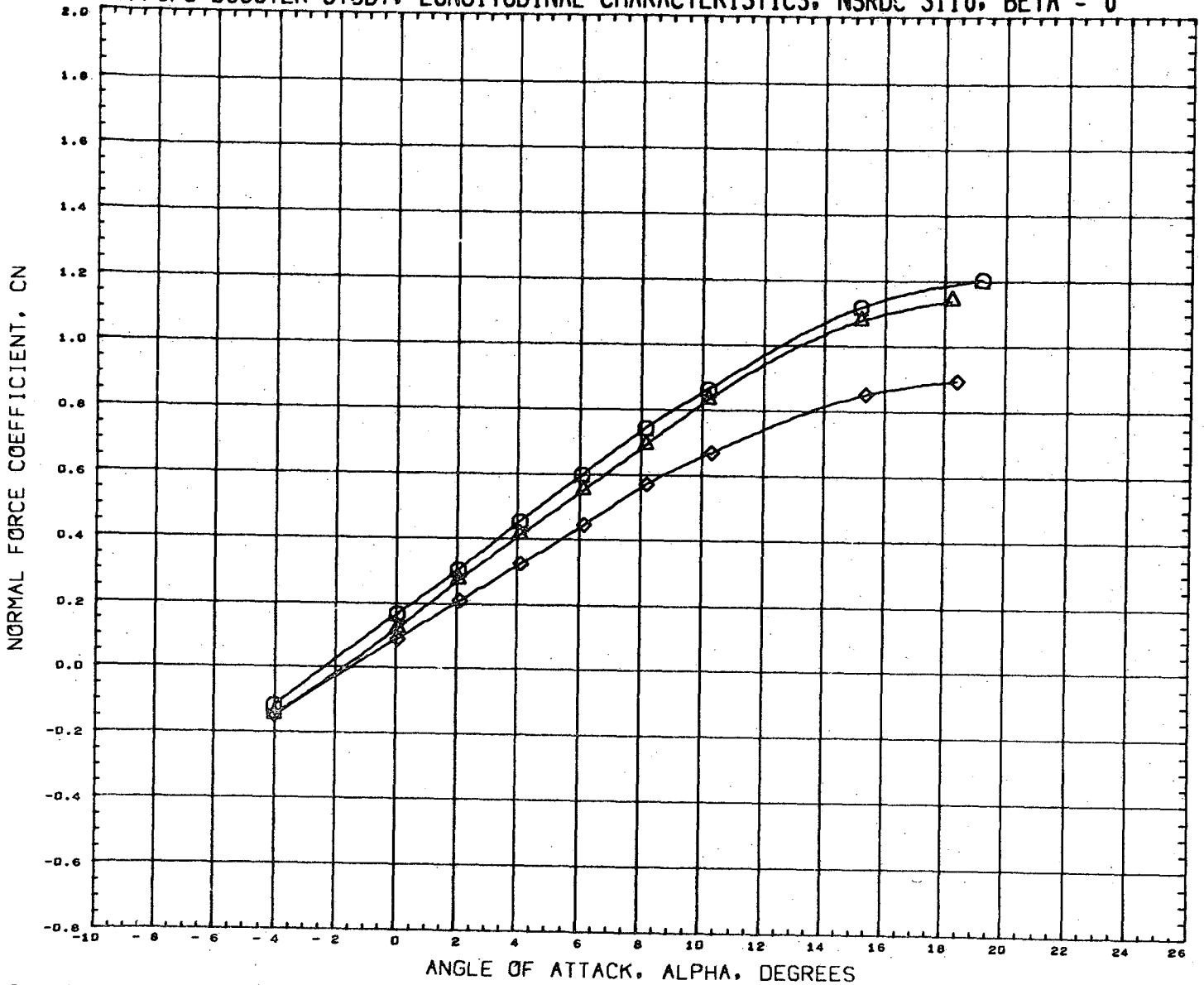
SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2030) 	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2222) 	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
(RN2222) 	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.361

50

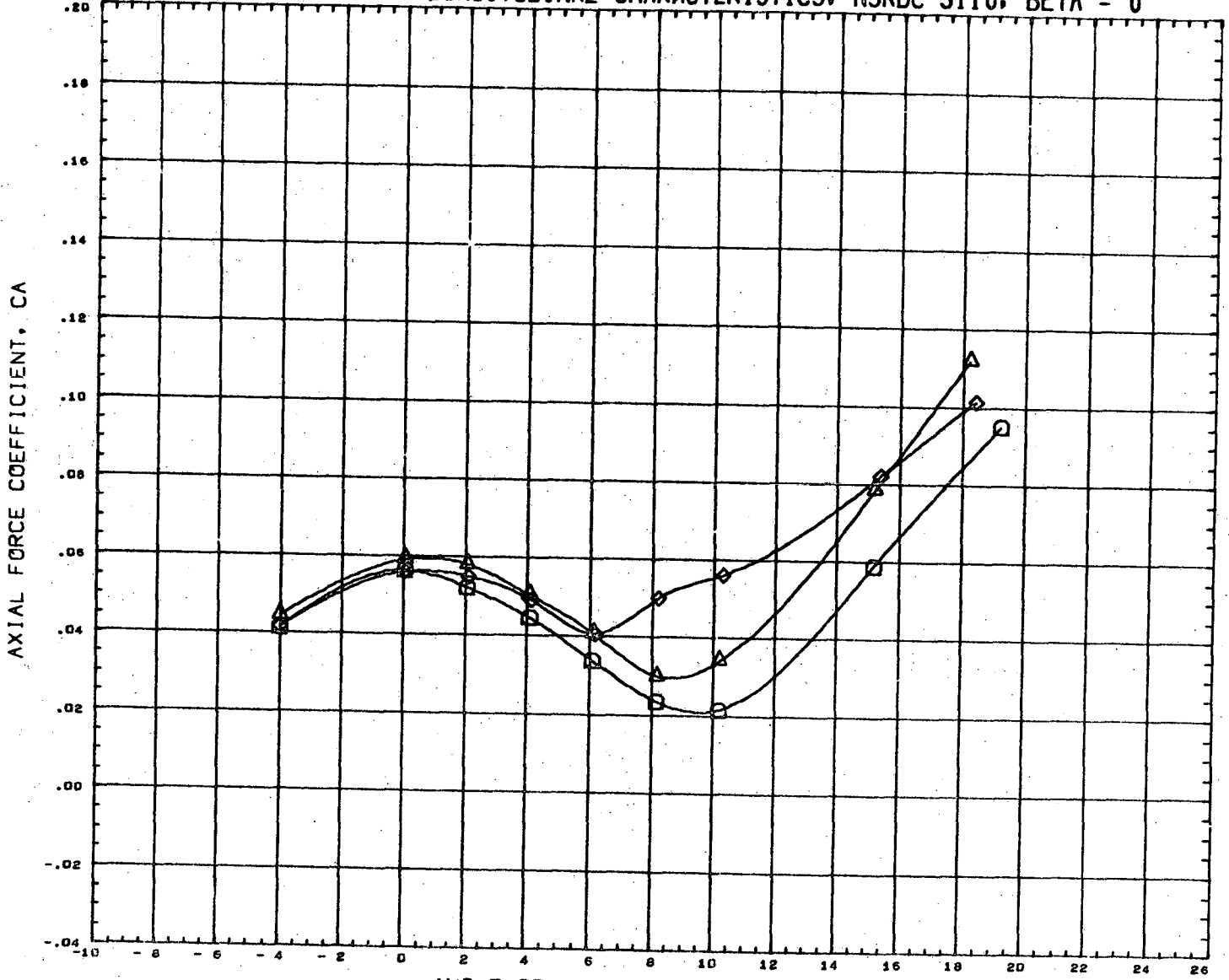
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2057)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000	SREF	1.3550 SQ.FT.
(RN2249)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF	41.4360 INCHES
(RN2309)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.500	3.000	2.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

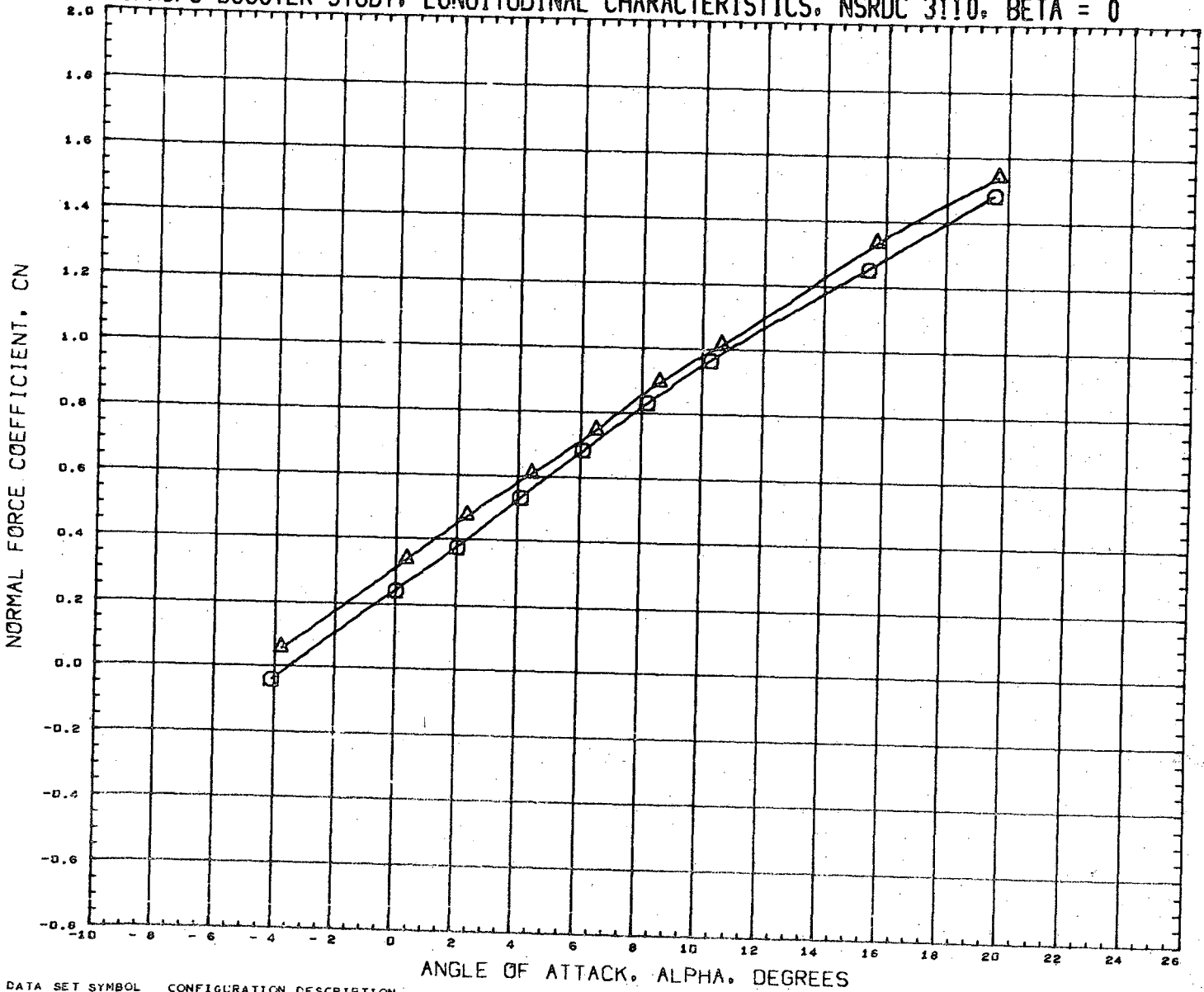
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2057)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2249)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2309)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.360

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



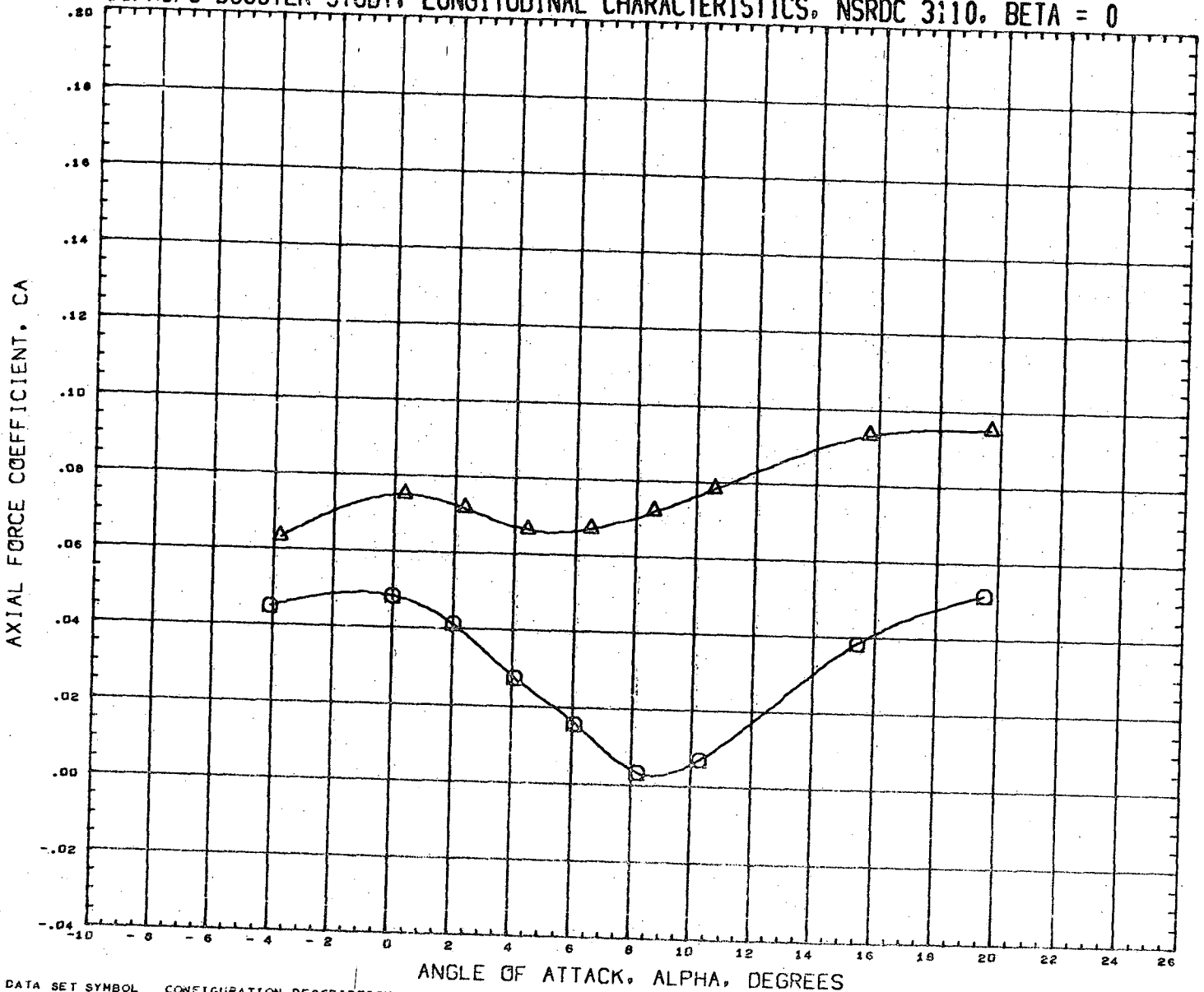
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2097) ○ NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
 (RN2101) △ NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC CNDFOS INCIDW WNGPOS
 3.000 1.000 3.000 1.000
 15.000 1.000 3.000 1.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL
(R2097)
(R2101)

CONFIGURATION DESCRIPTION

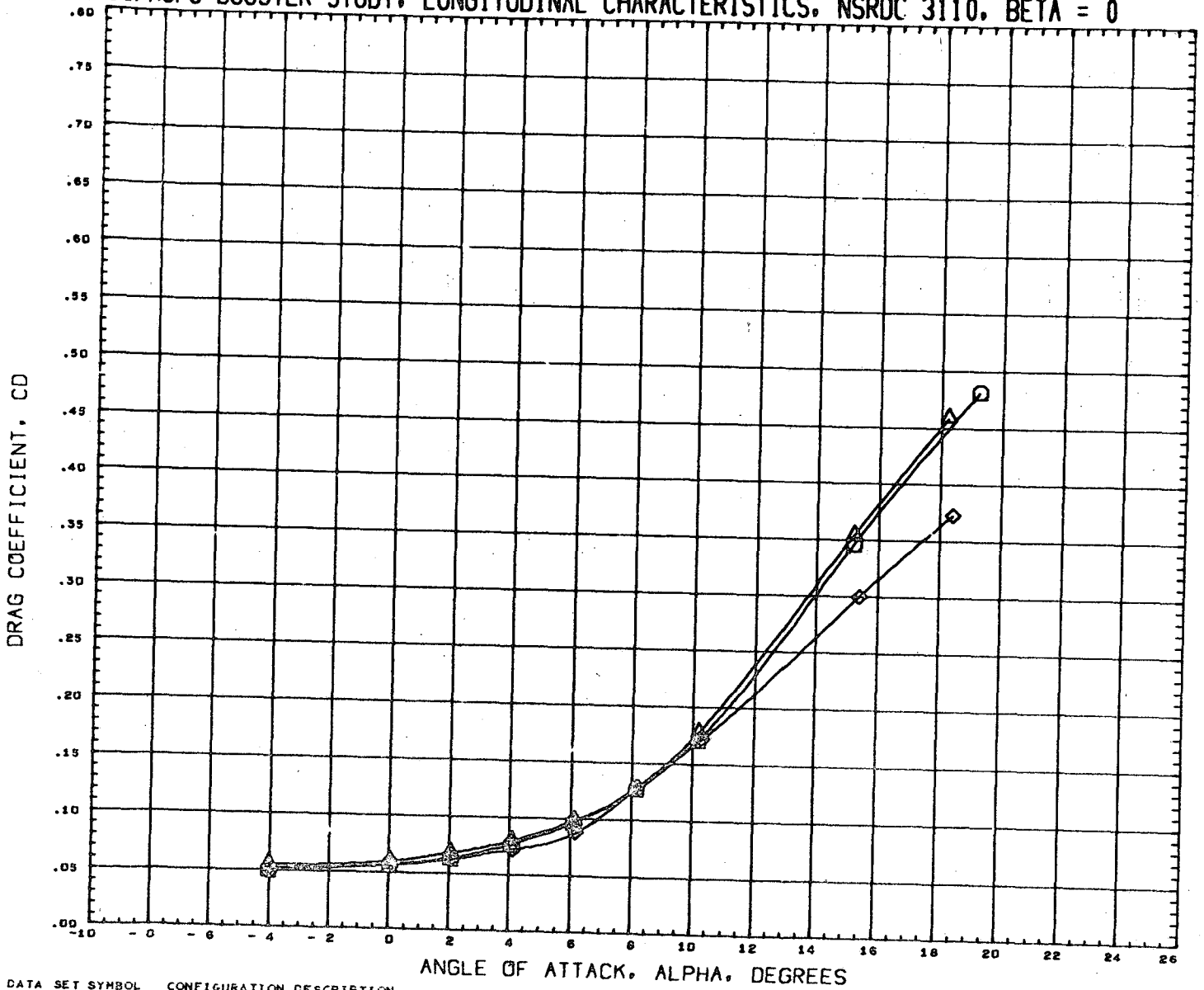
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.363

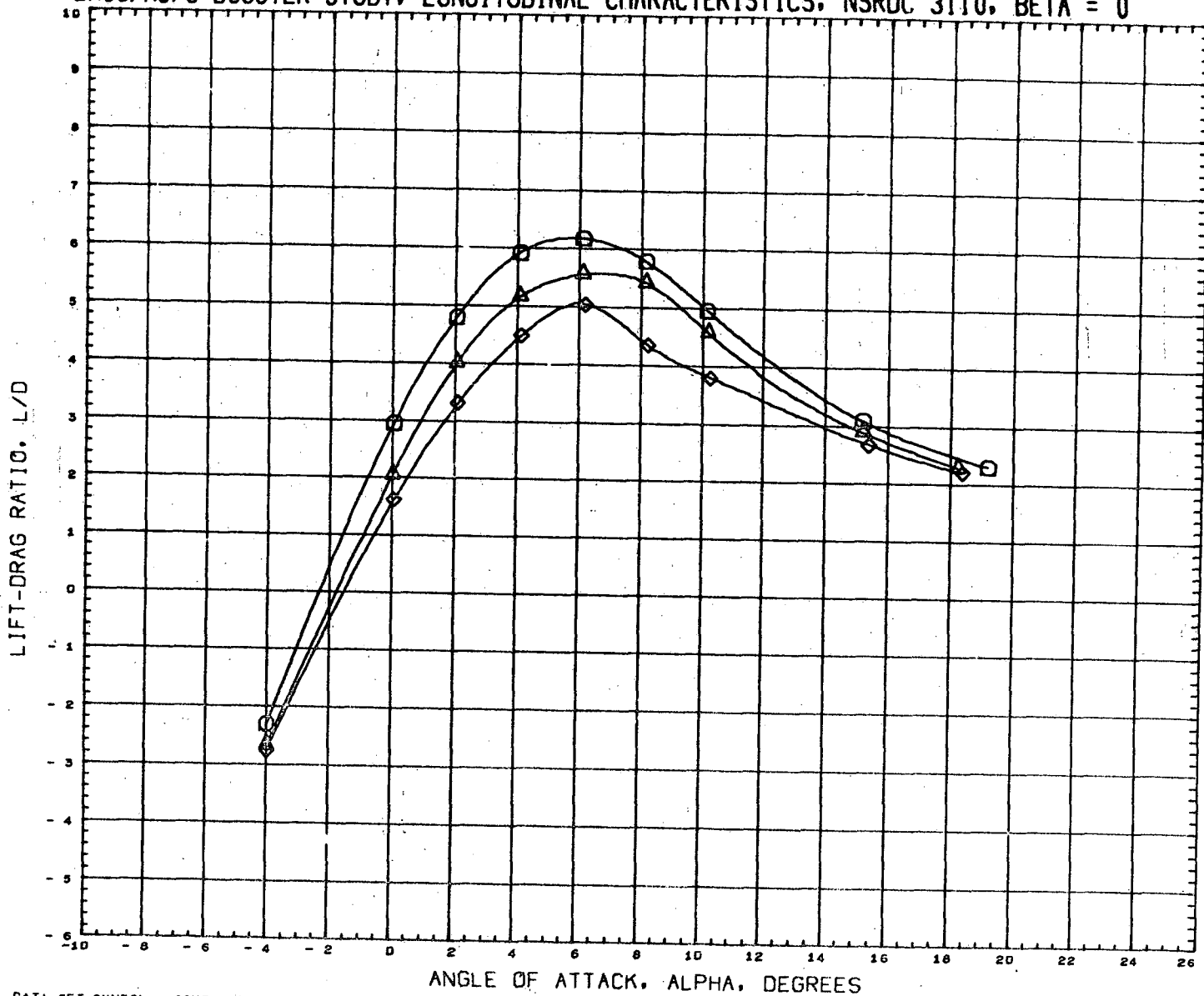
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2057)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2249)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2309)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

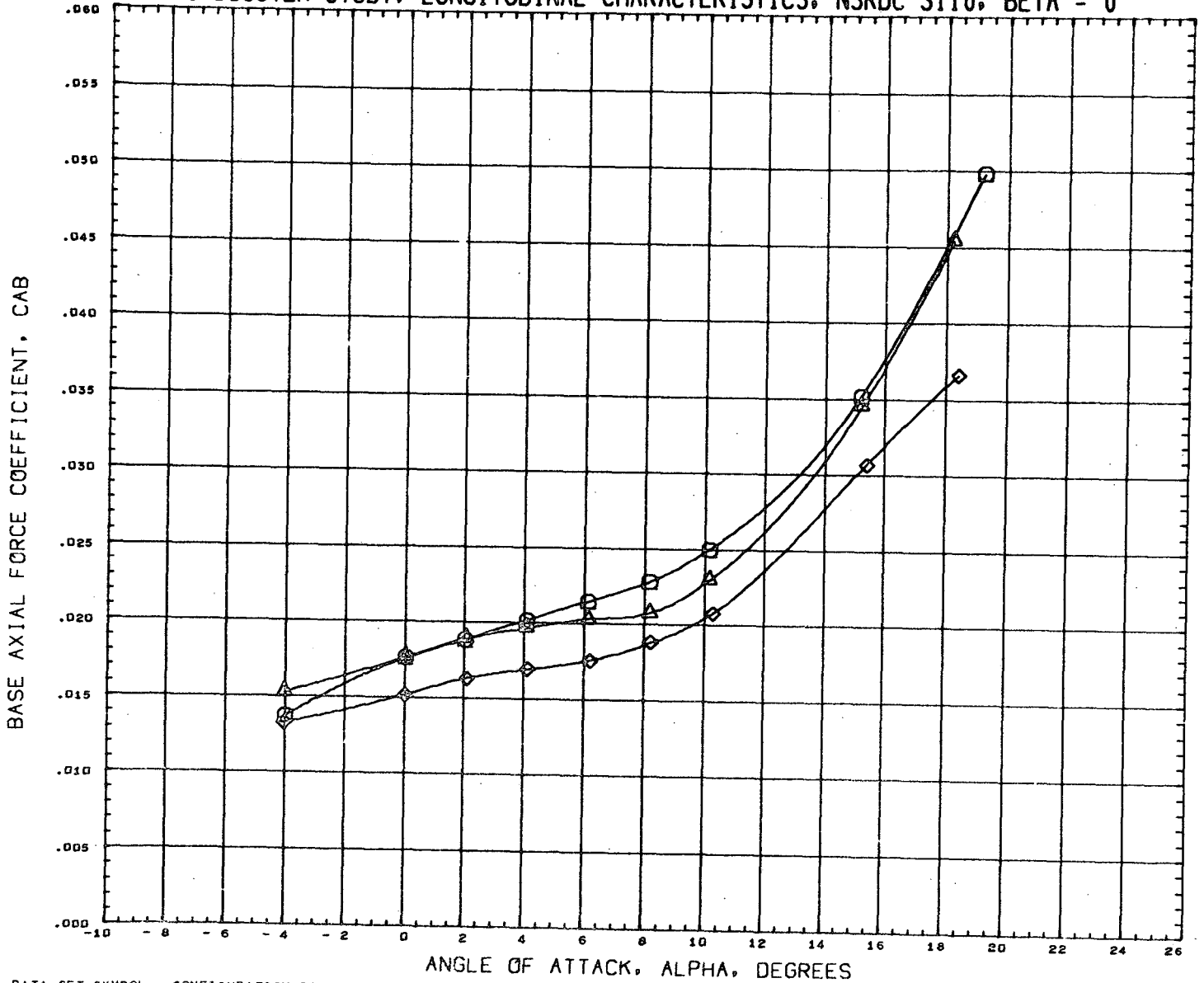
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2057)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000	SREF	1.3550 SQ.FT.
(RN2249)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF	41.4360 INCHES
(RN2309)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

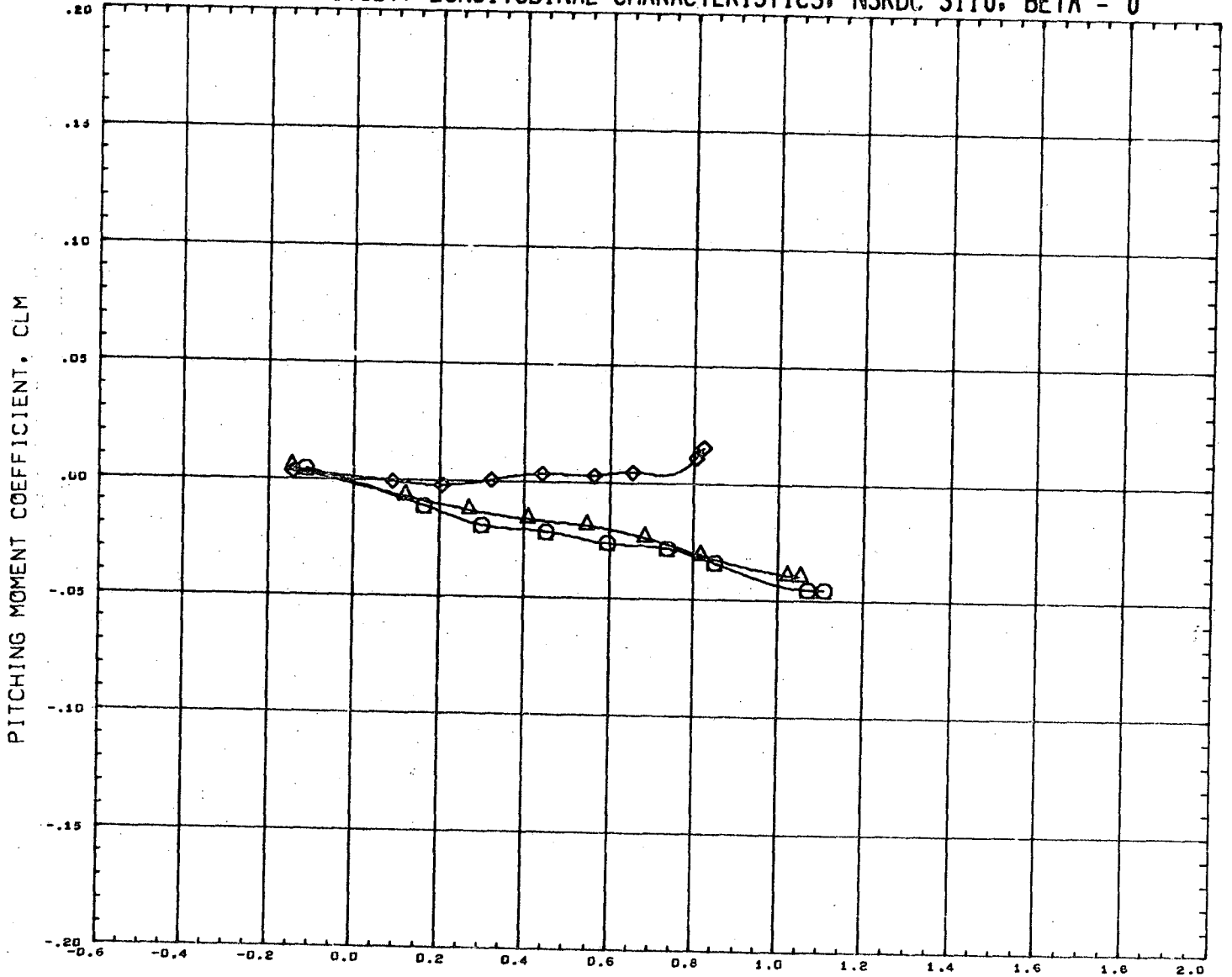
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2057)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2249)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2309)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

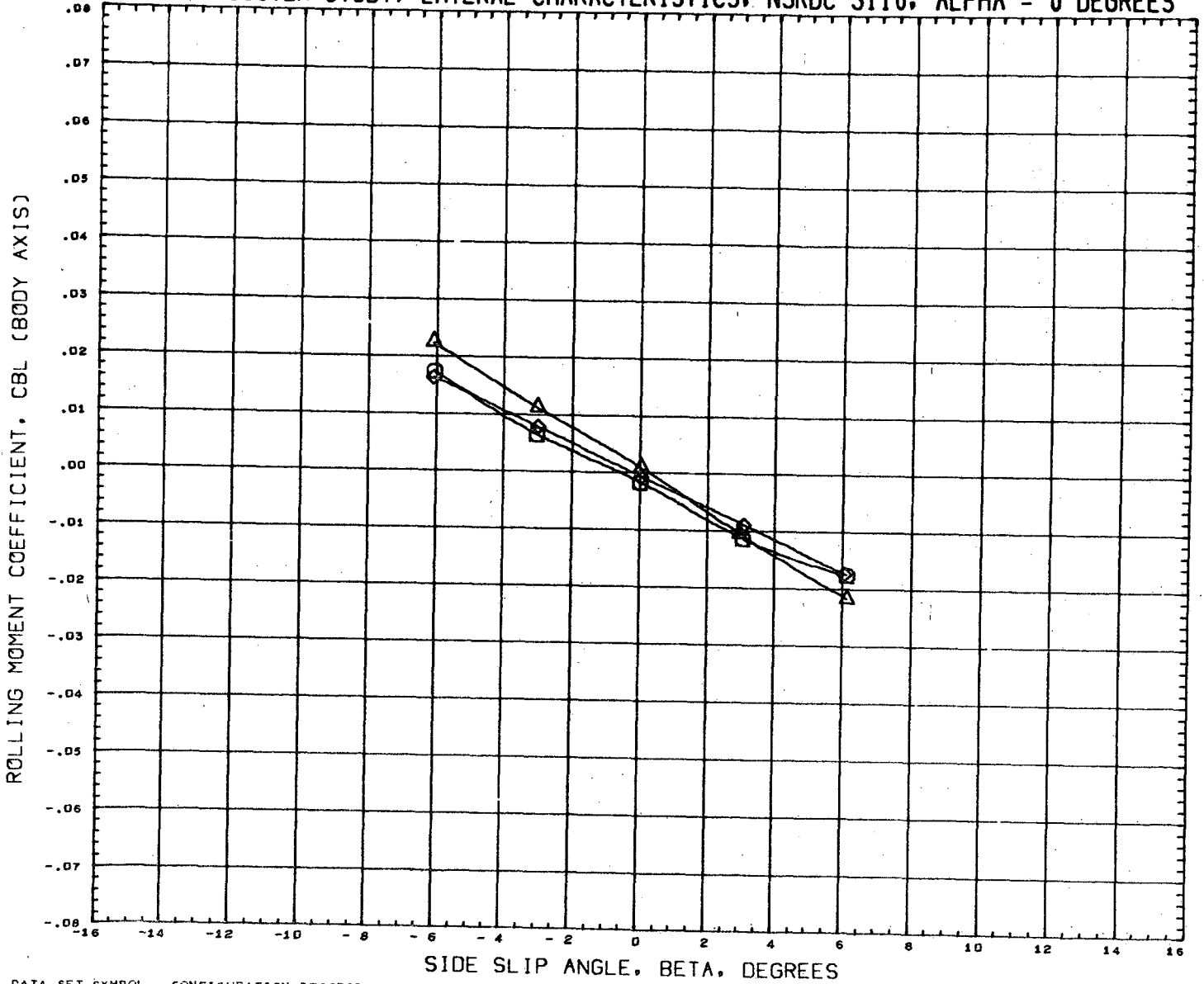
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2057)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2249)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2309)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

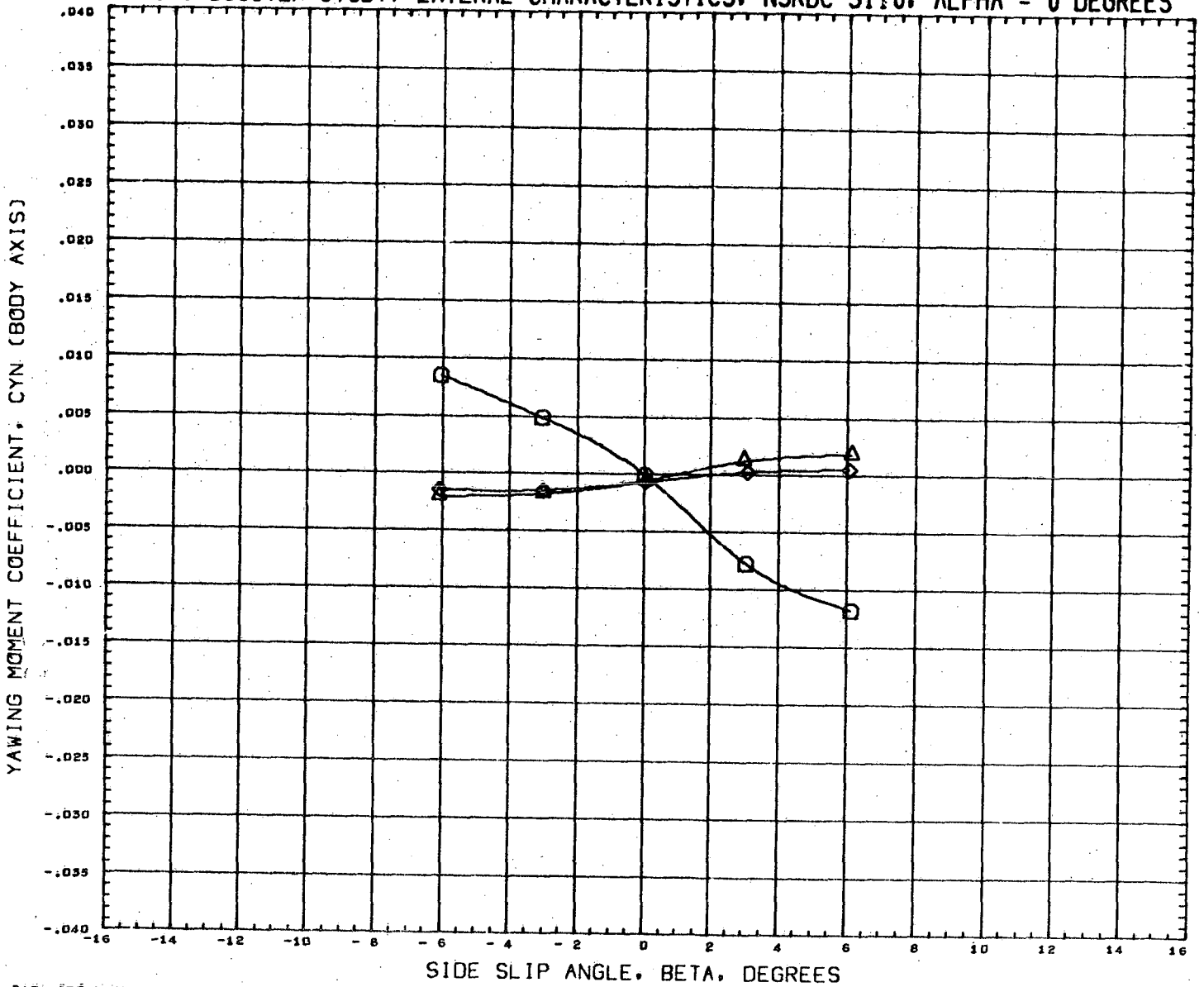
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2058)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000	SREF	1.3550 SQ.FT.
(RN2250)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF	41.4360 INCHES
(RN2310)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.379

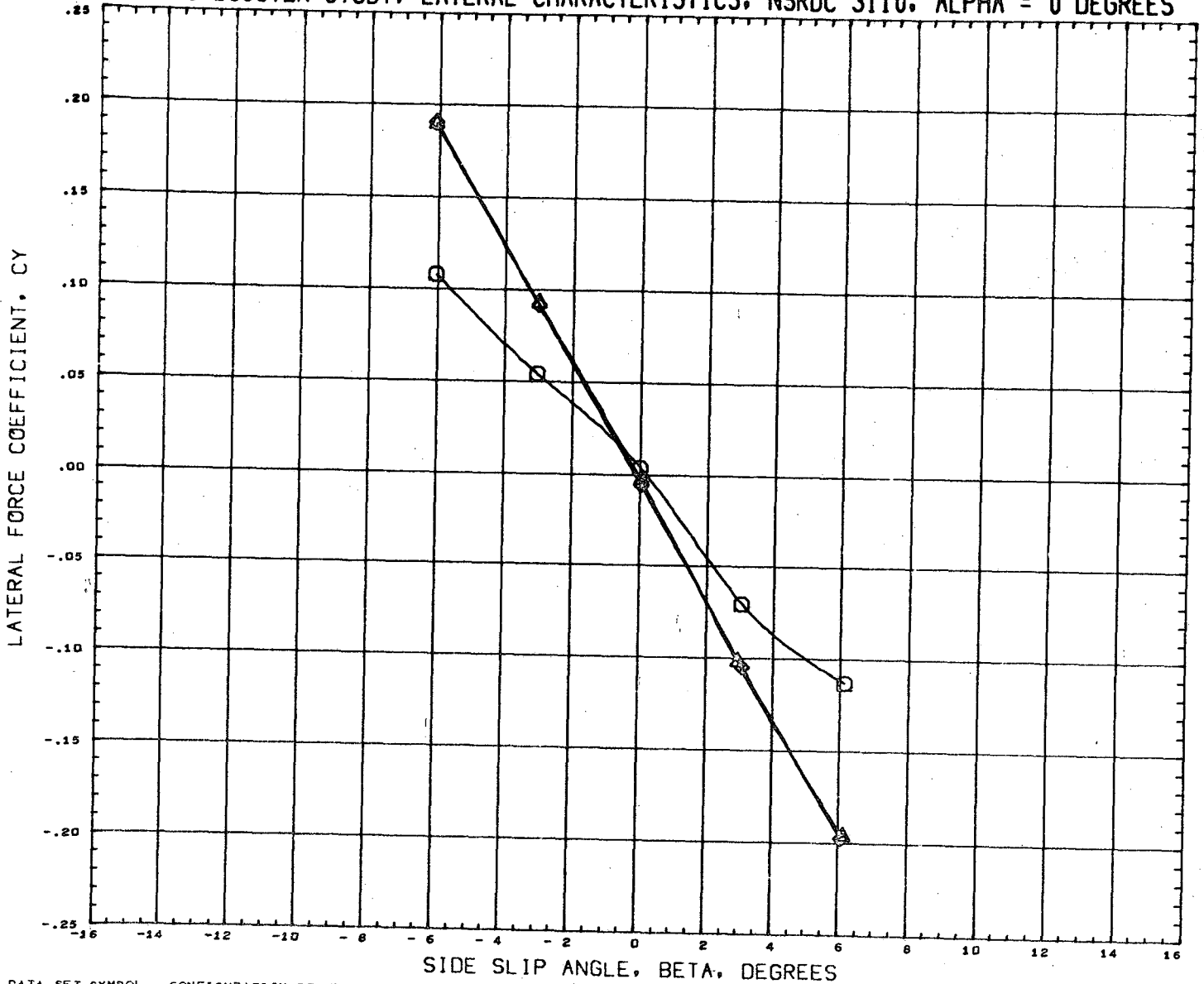
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS	REFERENCE INFORMATION
(RN2058)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2250)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2310)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

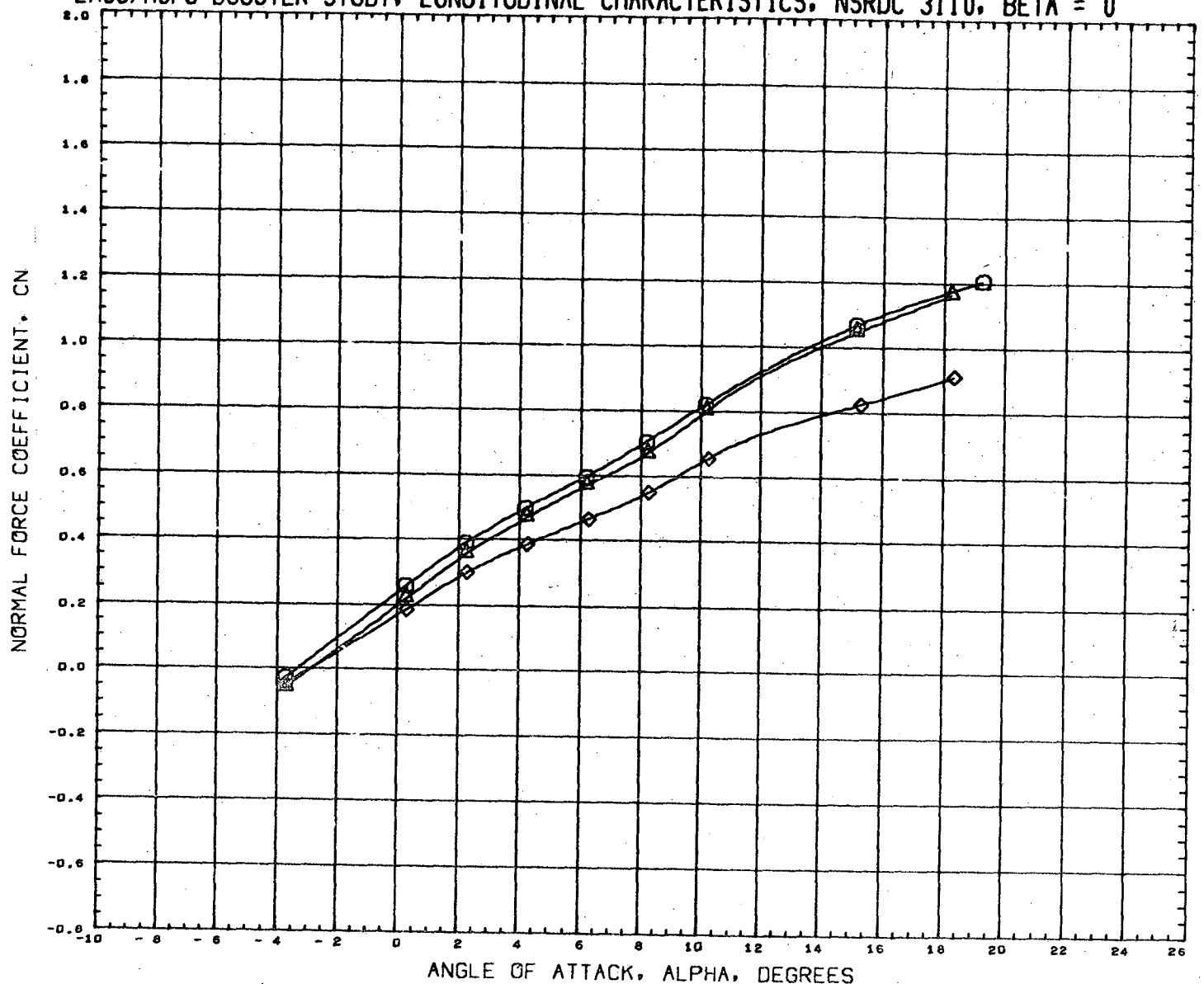
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2058)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2250)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2310)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0600 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.379

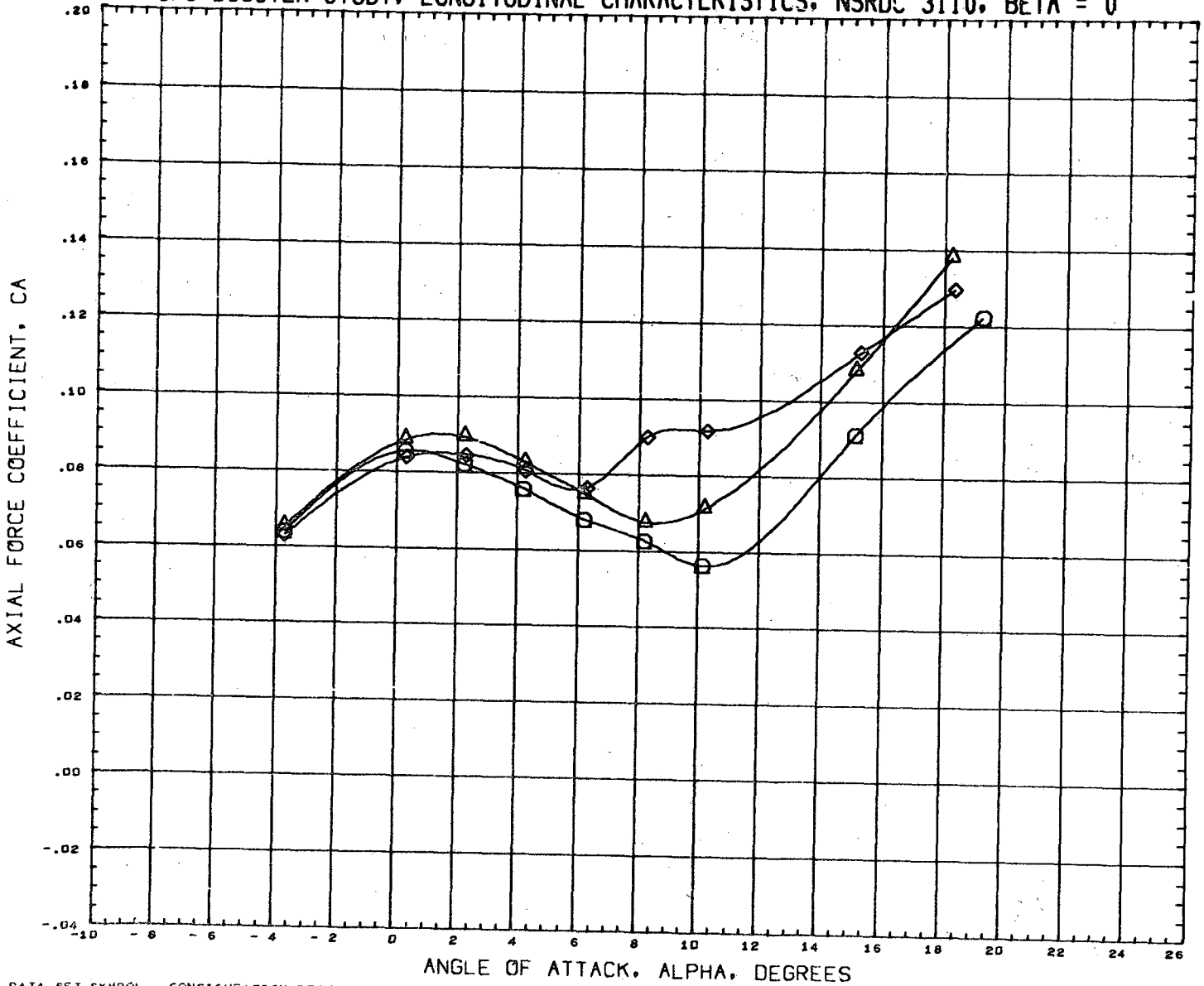
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2061)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2253)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2313)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.385

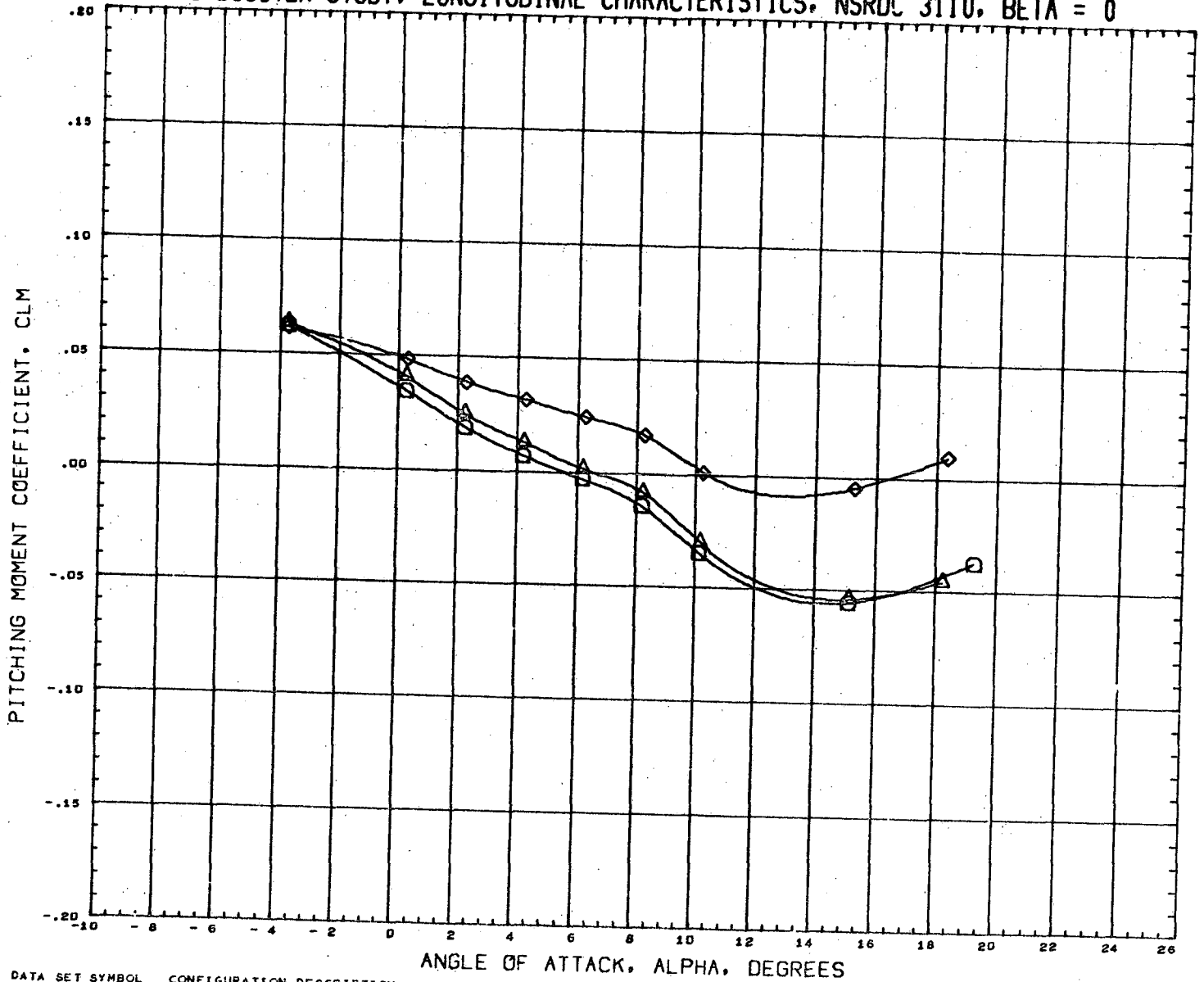
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2061)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2253)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2313)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.385

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2061) □
 (RN2253) △
 (RN2313) ◇

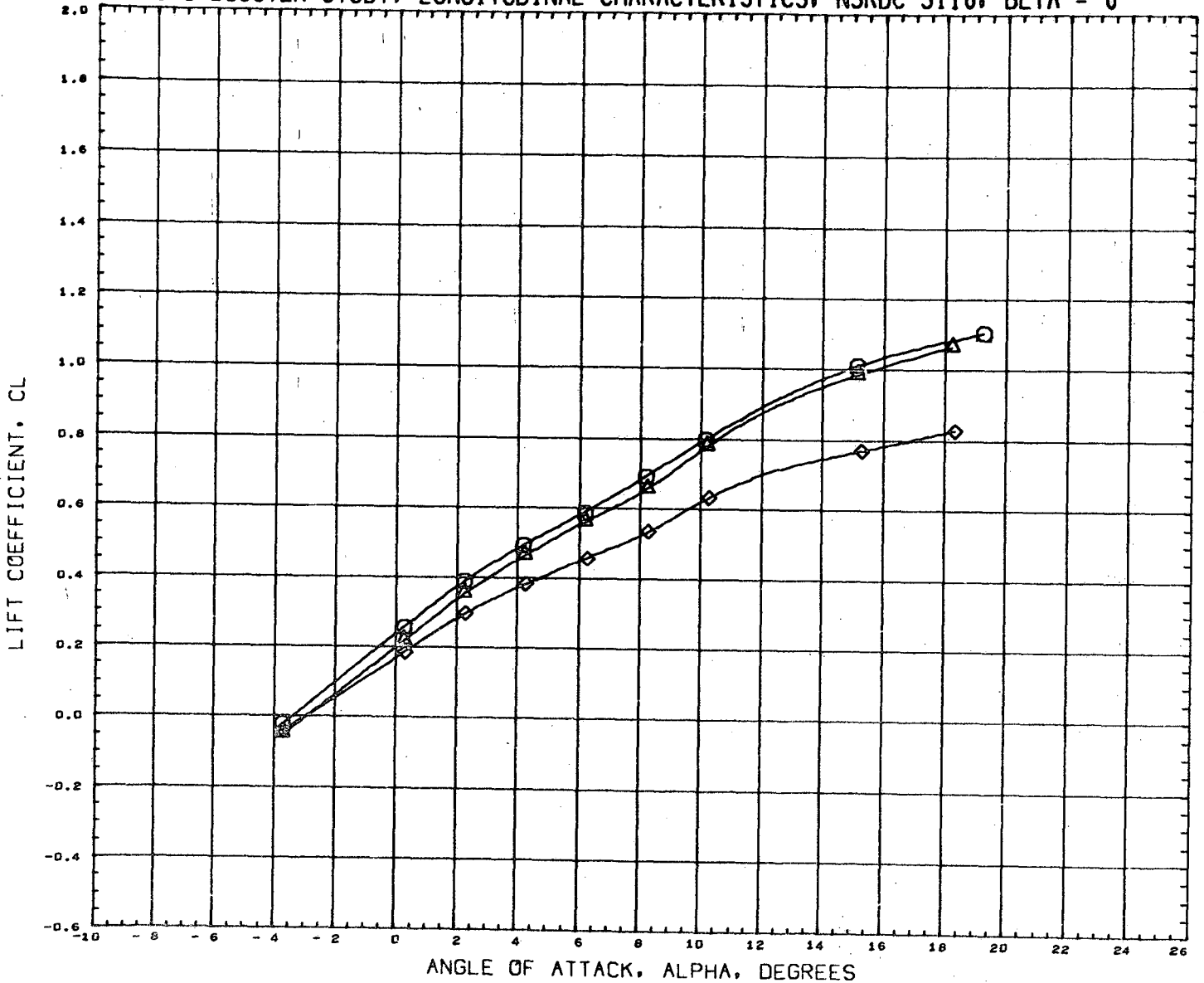
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	2.000
15.000	2.000	3.000	2.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ.FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.385

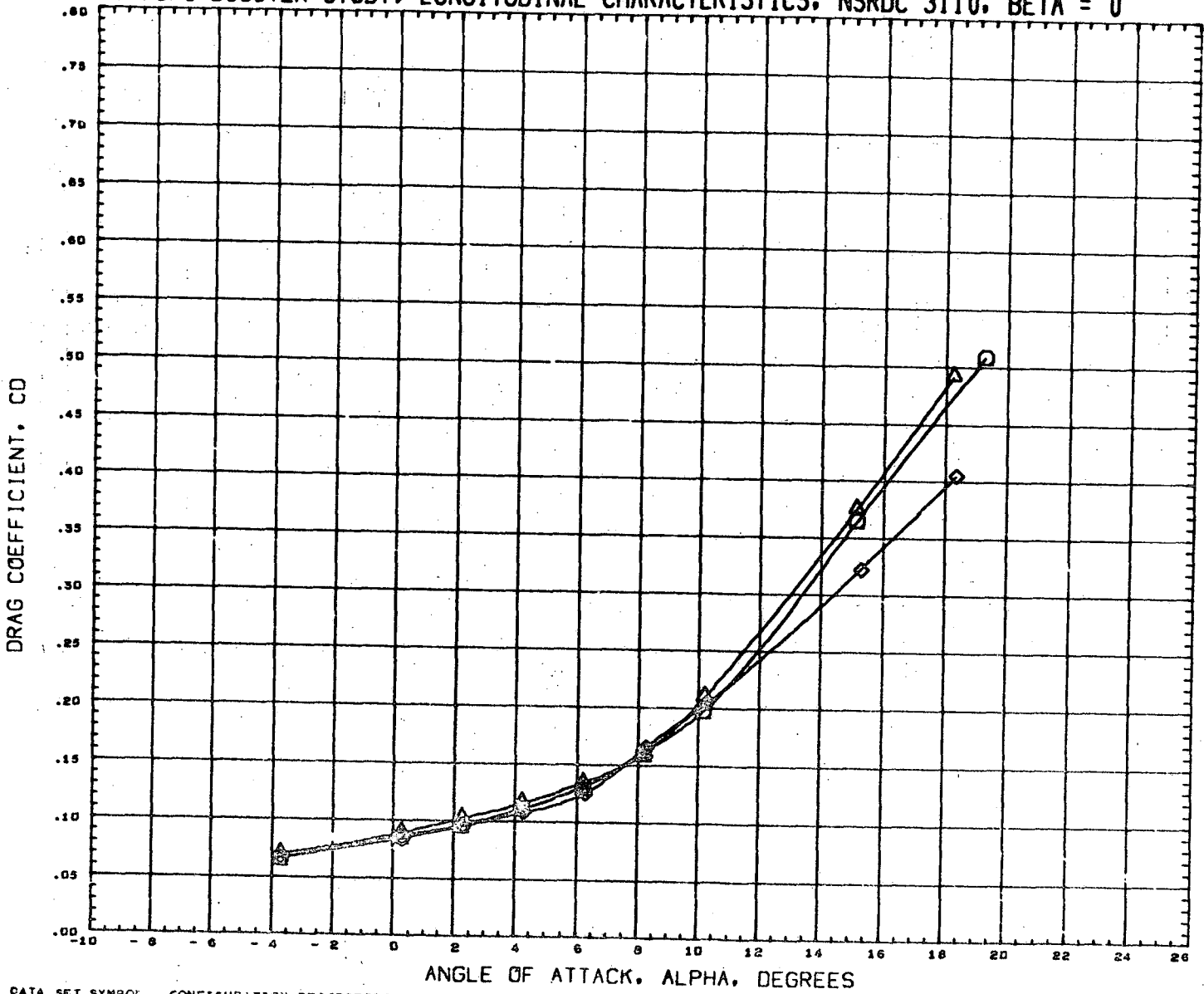
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2061)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2253)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2313)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	BREF 41.4360 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCENT

MACH 0.385

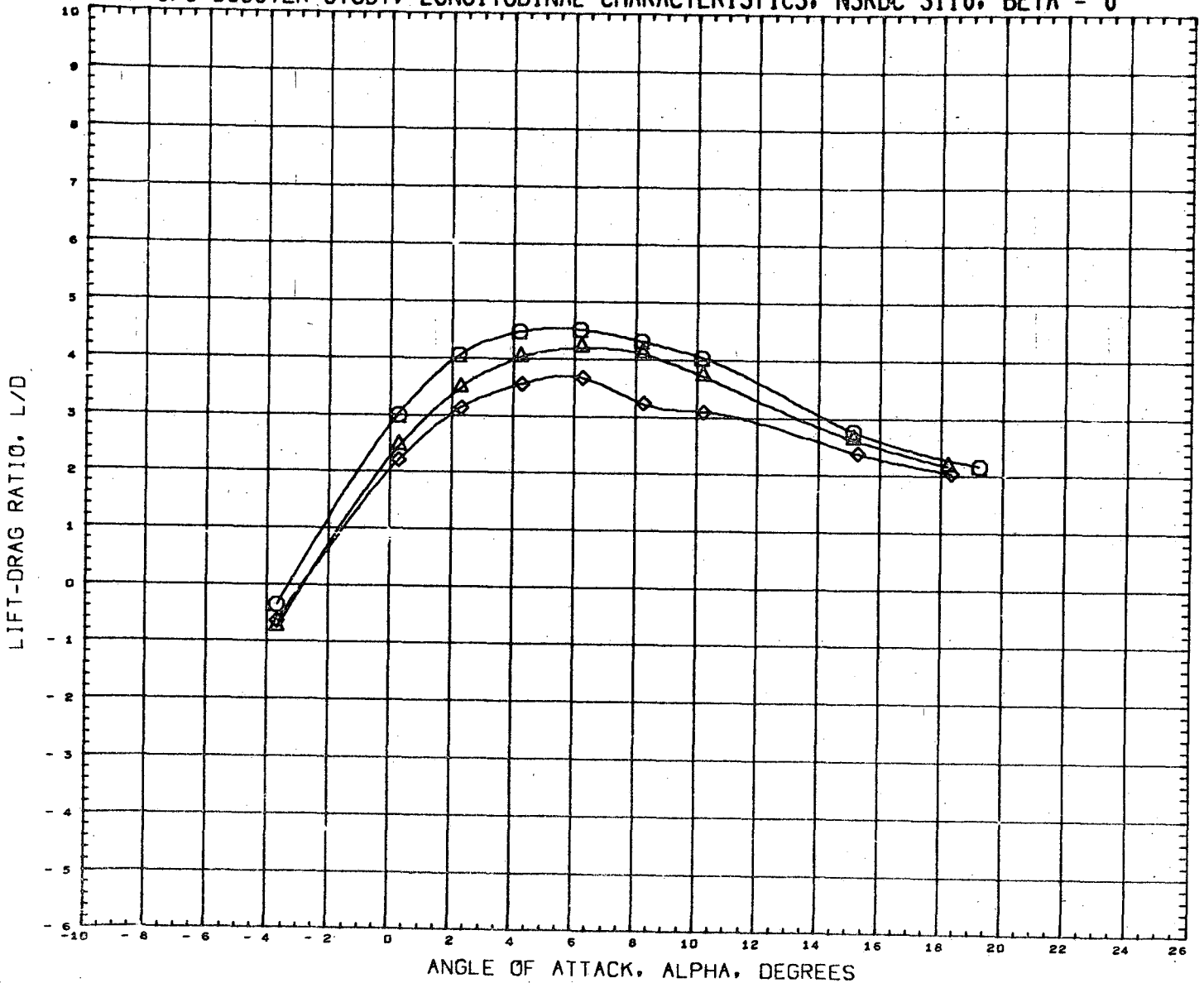
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2061)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2253)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2313)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XHRF 31.1400 INCHES
						YHRF 0.0000 INCHES
						ZHRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.385

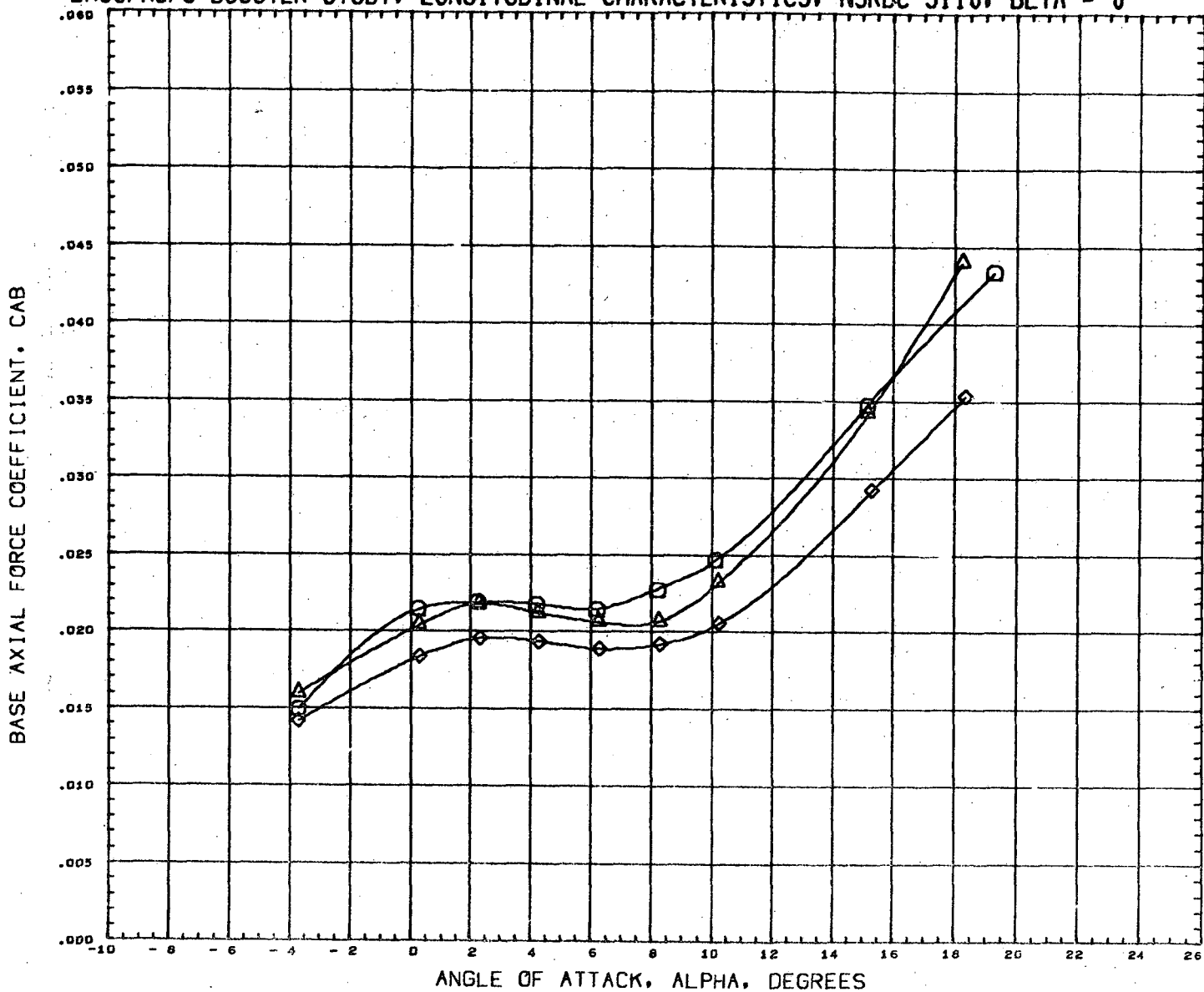
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2061)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2253)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2313)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.385

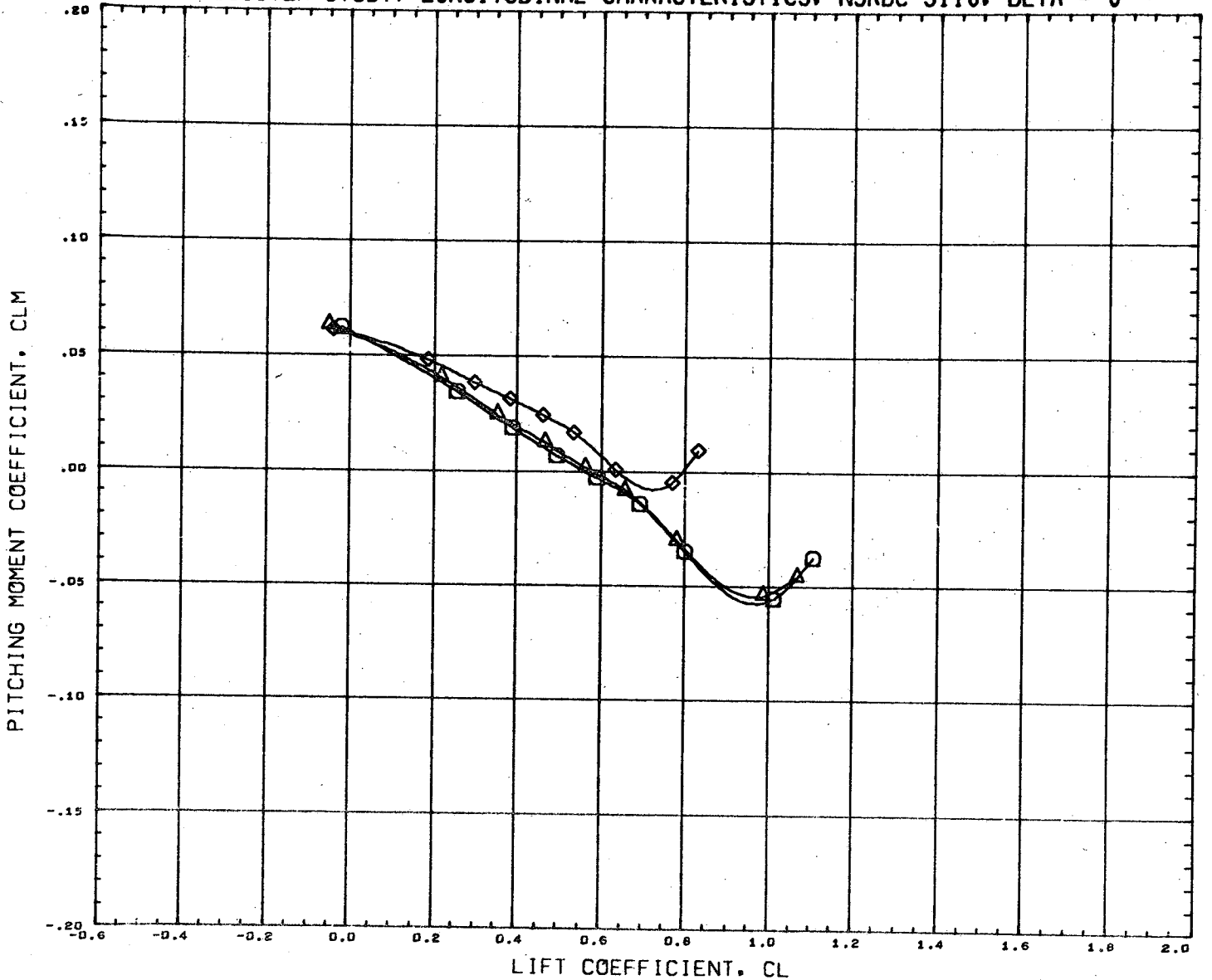
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2061)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2253)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2313)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.385

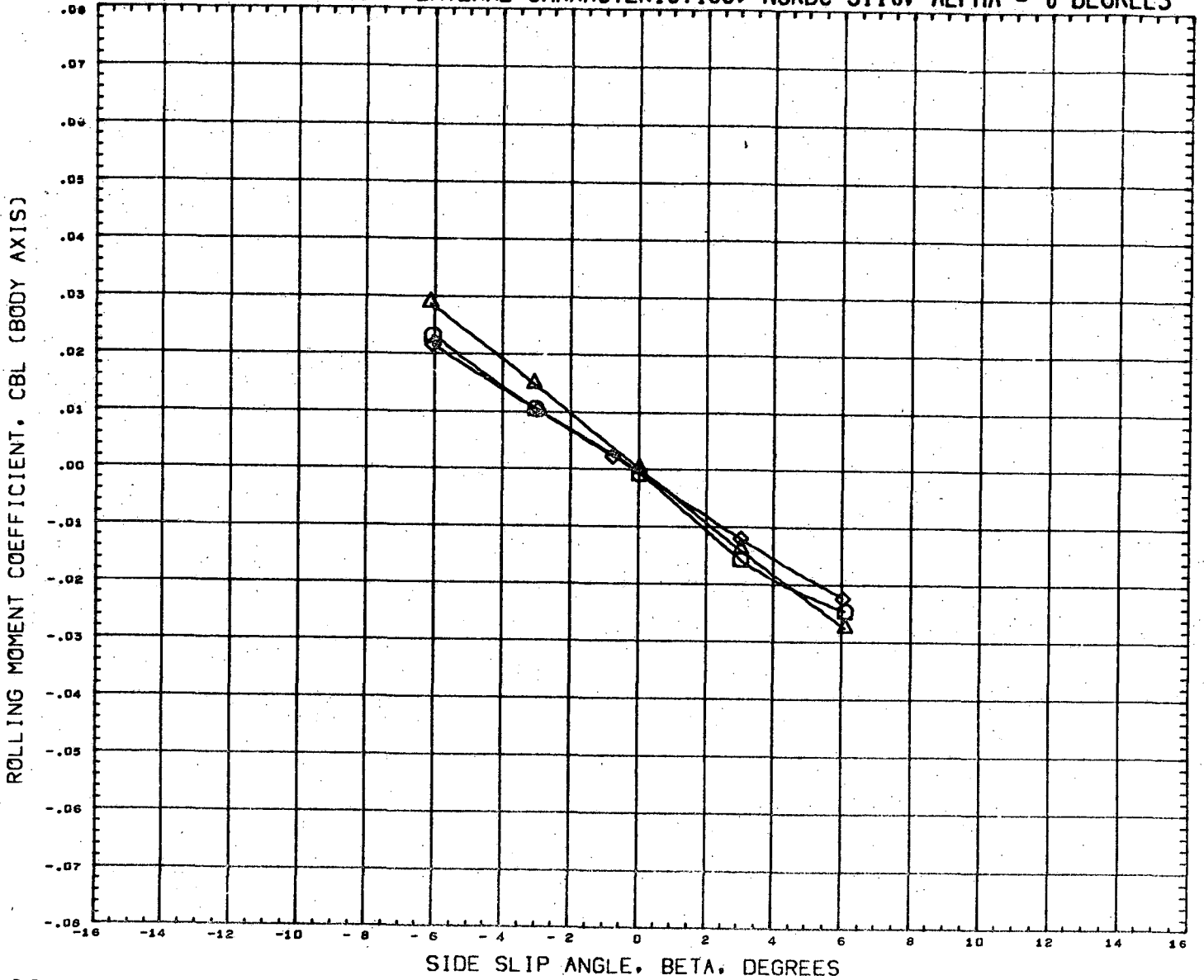
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2061)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2253)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2313)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.385

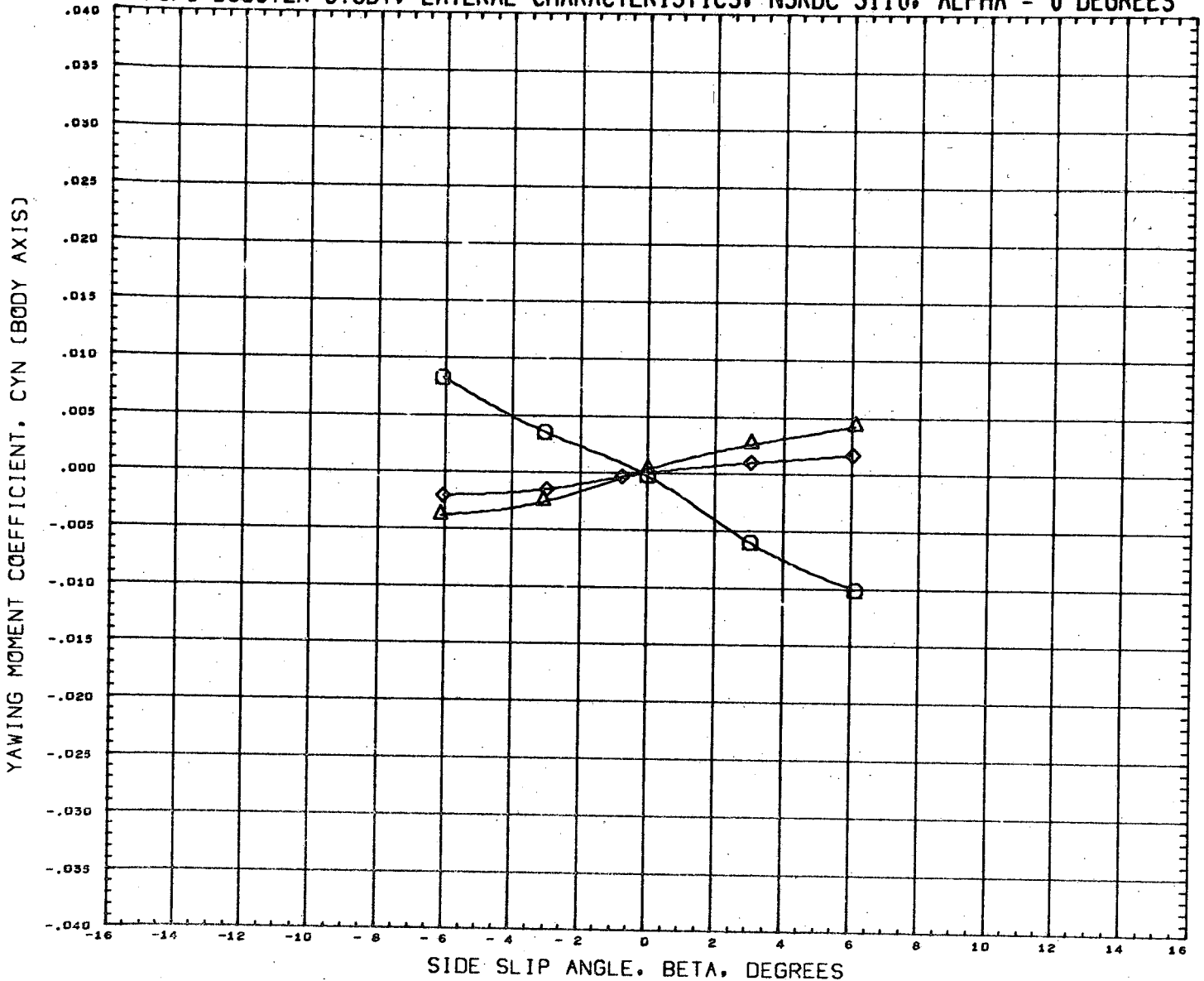
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2062)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2254)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2314)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

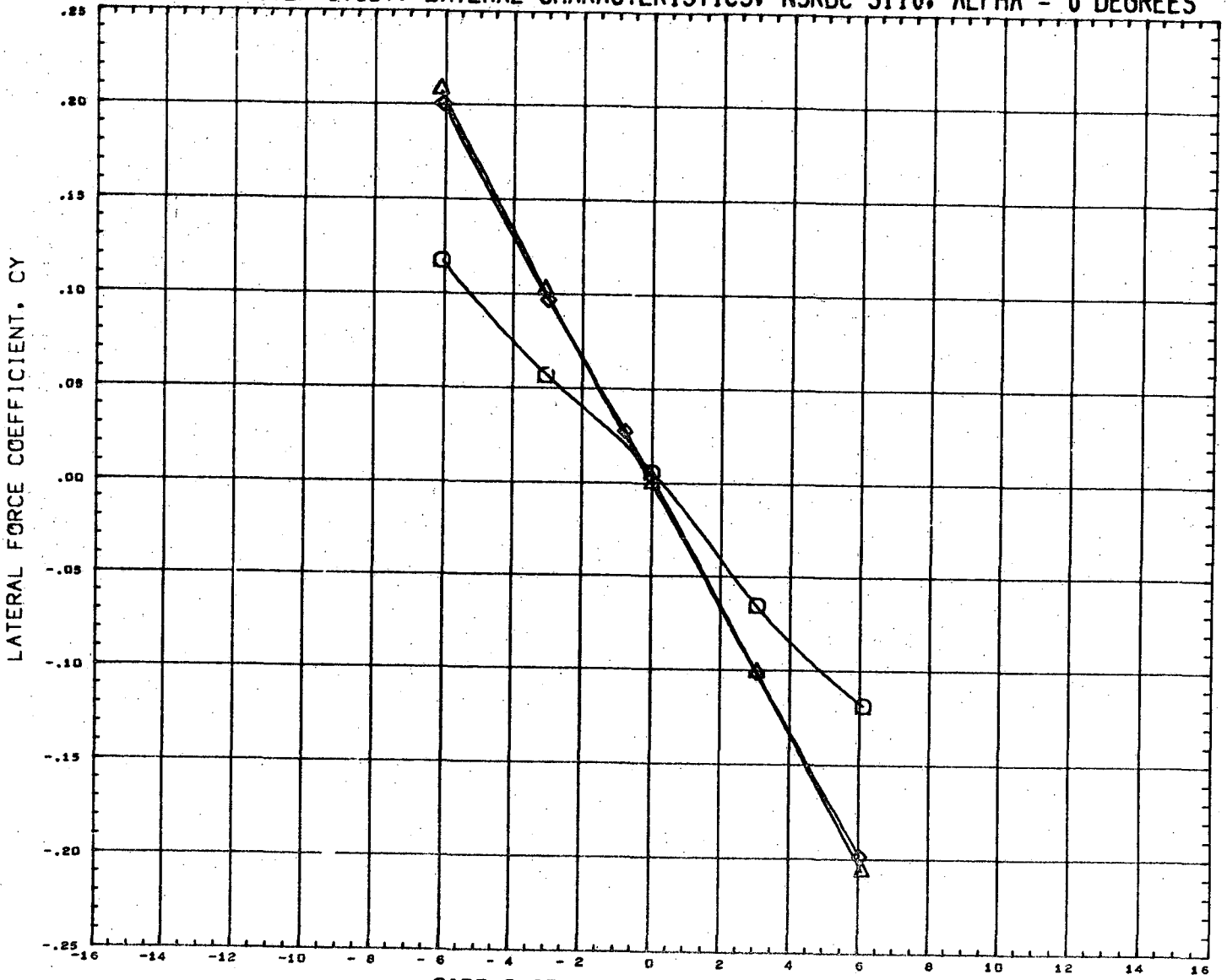
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2062)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2254)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2314)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

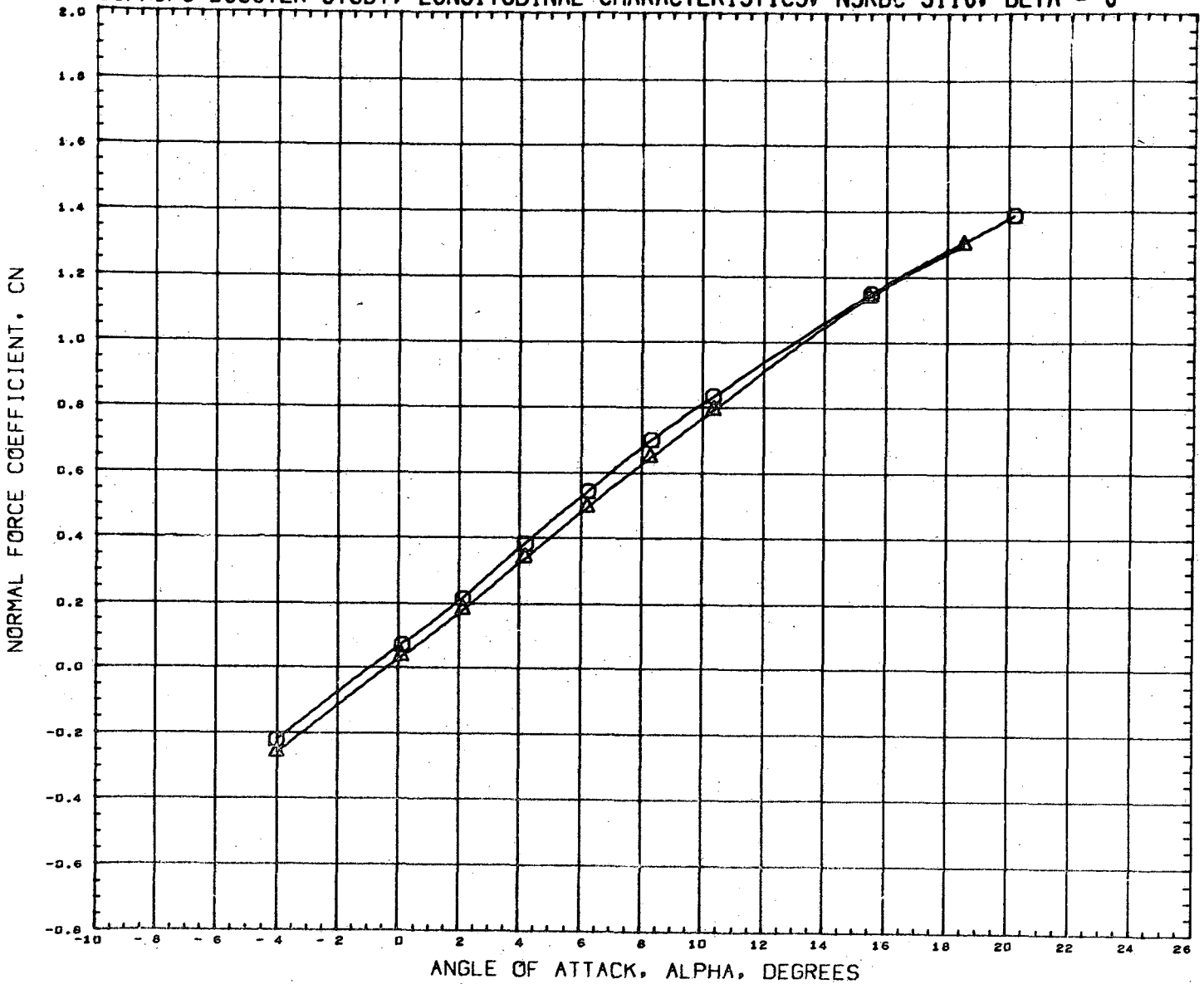
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2062)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2254)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
(RN2314)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

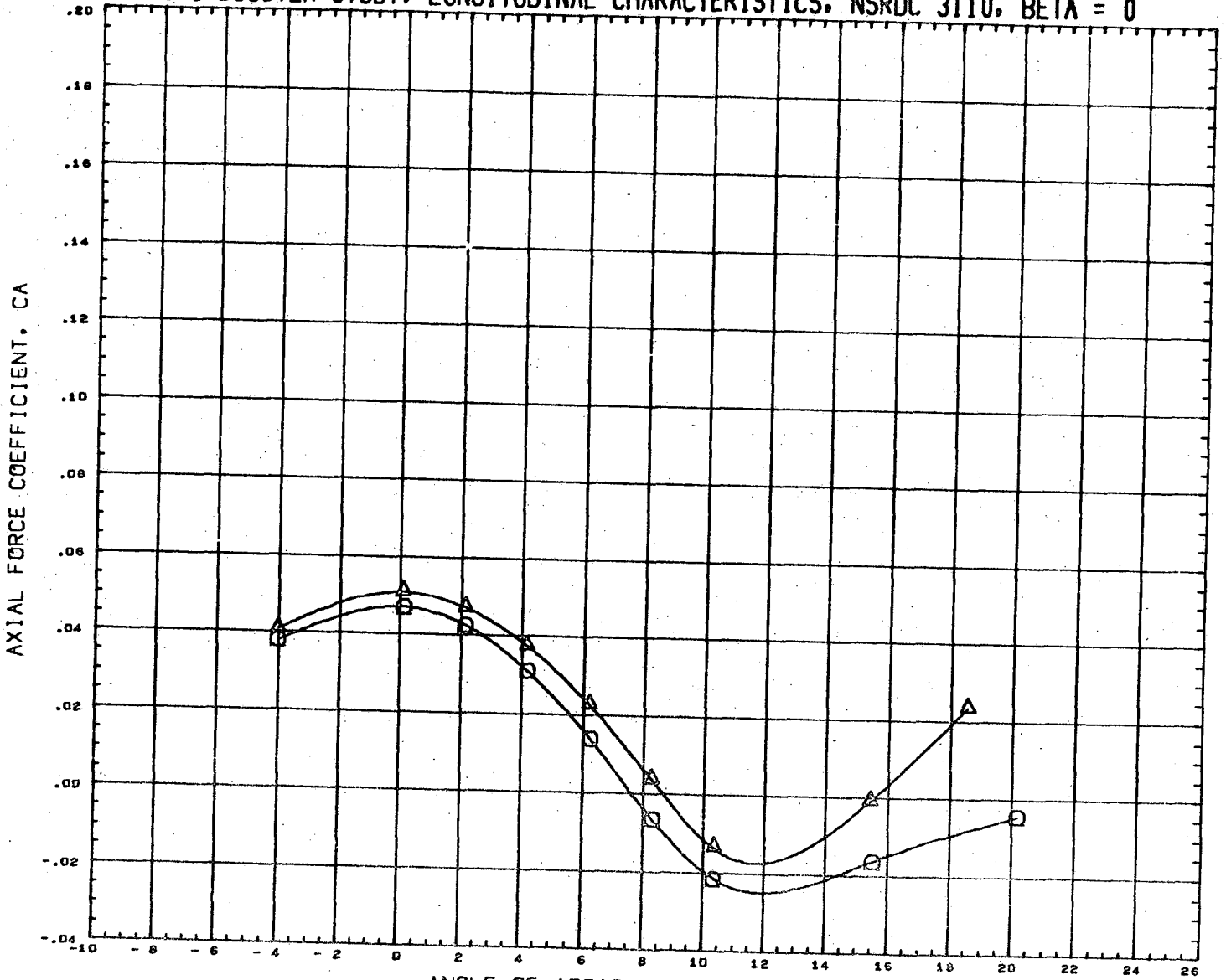
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS	REFERENCE INFORMATION
(RN2065)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2129)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

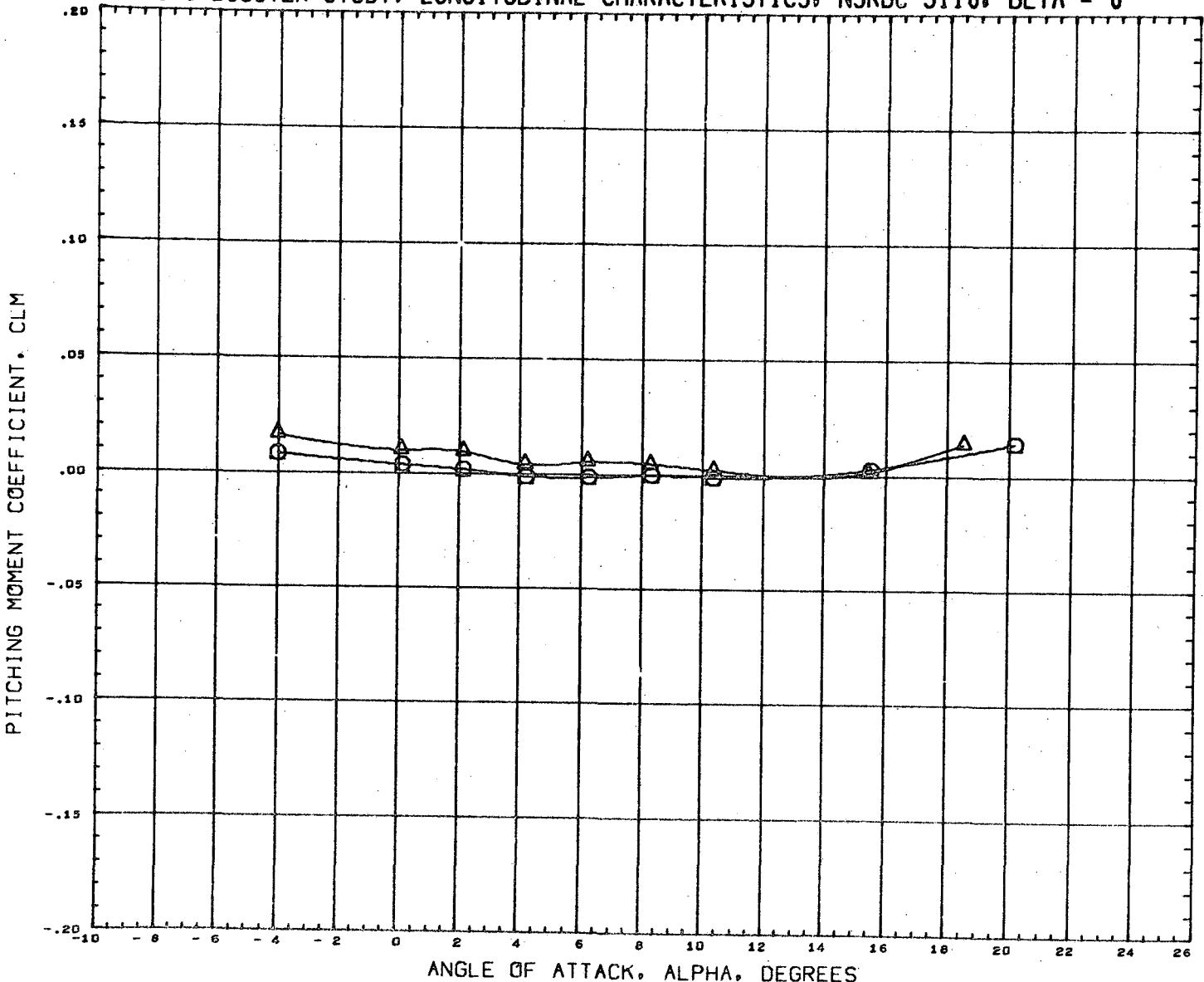


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2065)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2129)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

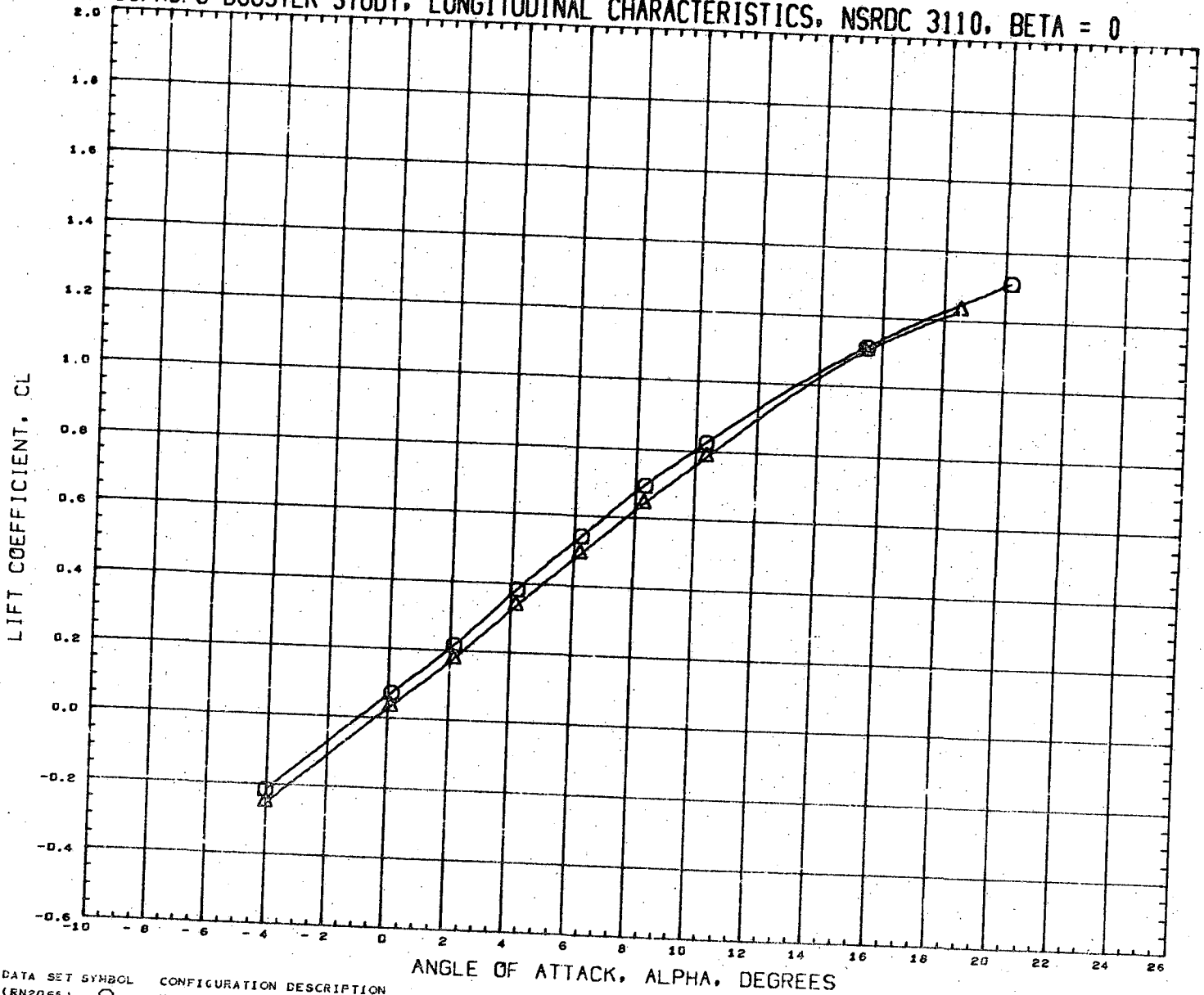
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2065)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2129)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						MRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2065)
(RN2129)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

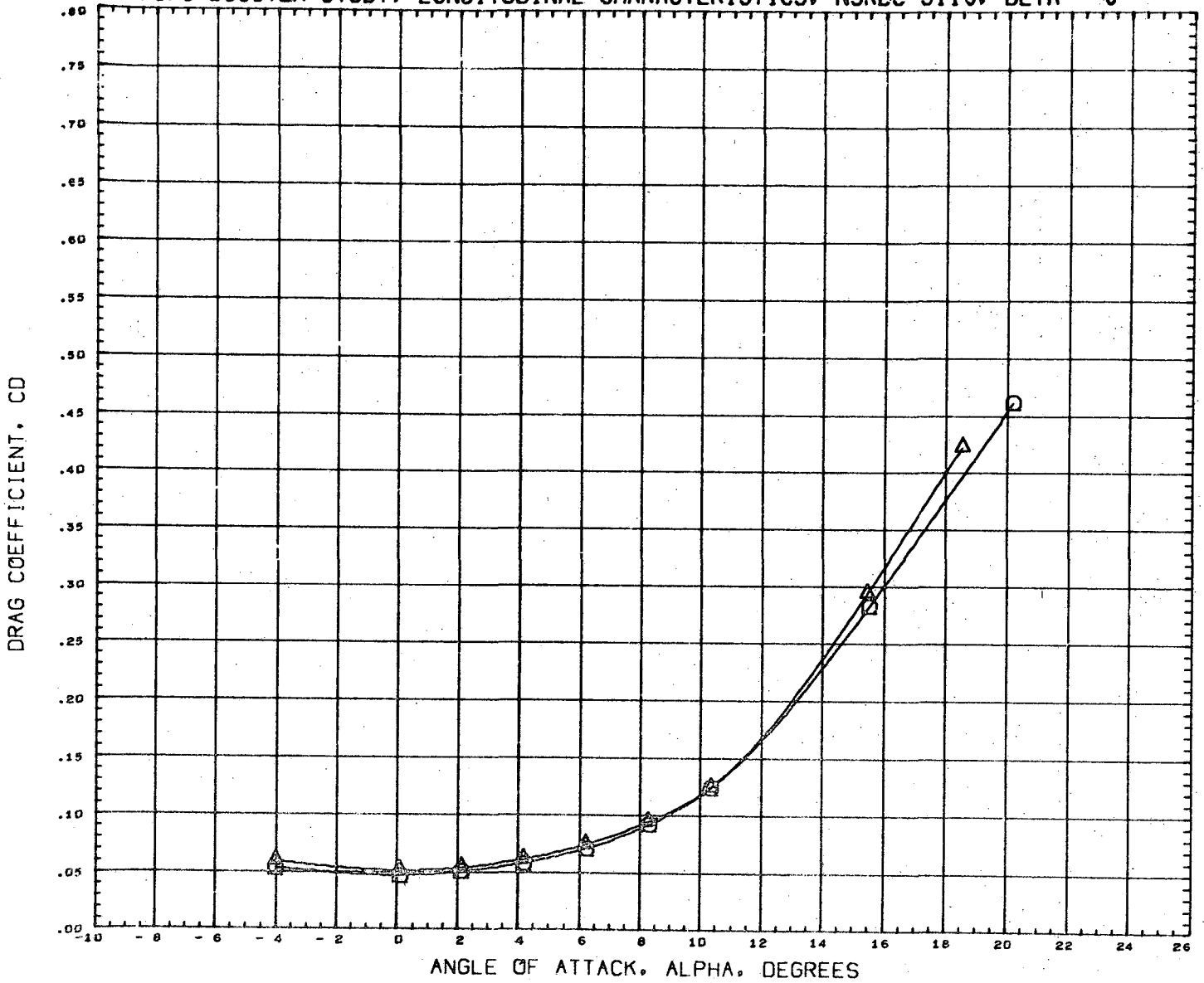
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

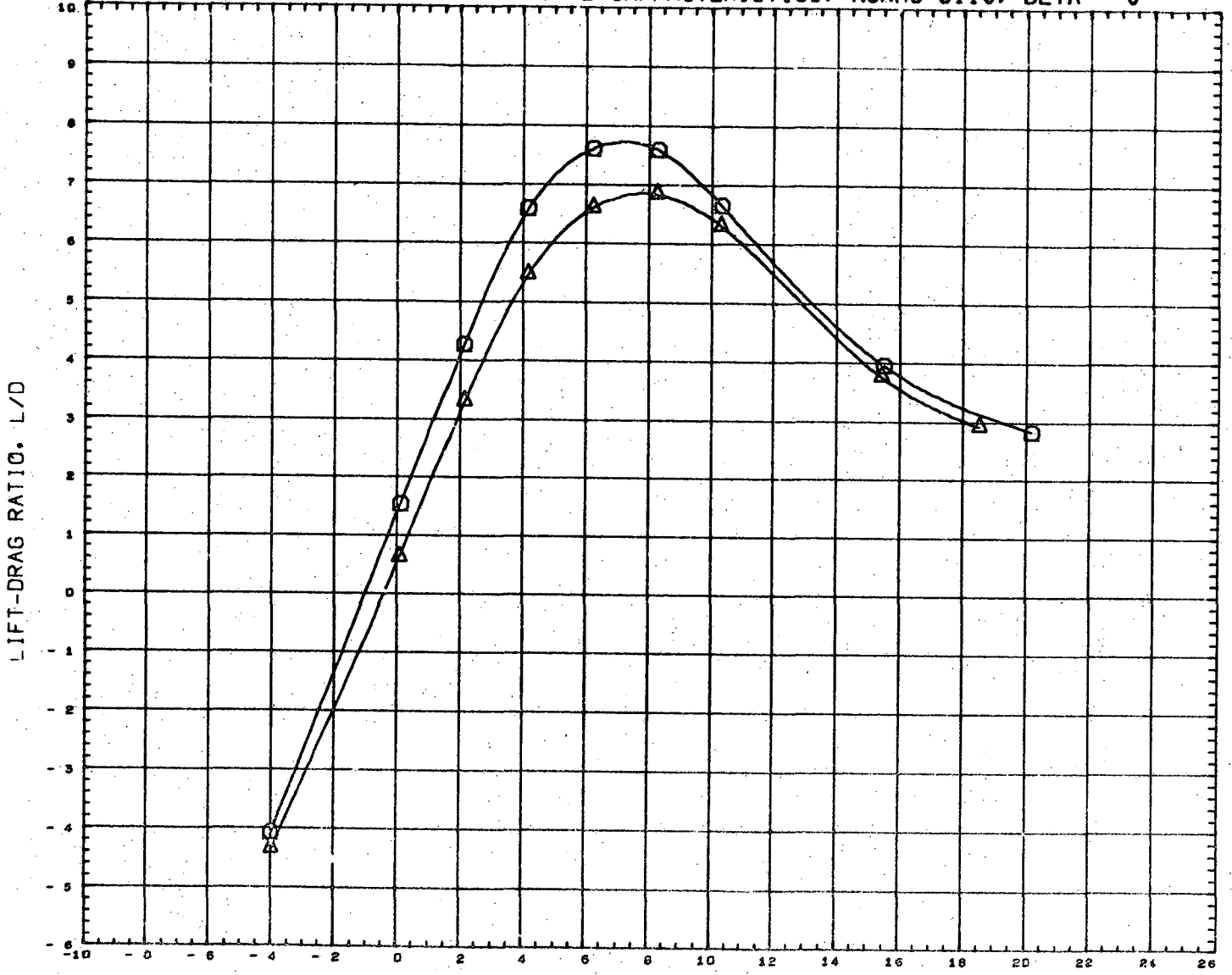
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2065)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2129)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.381

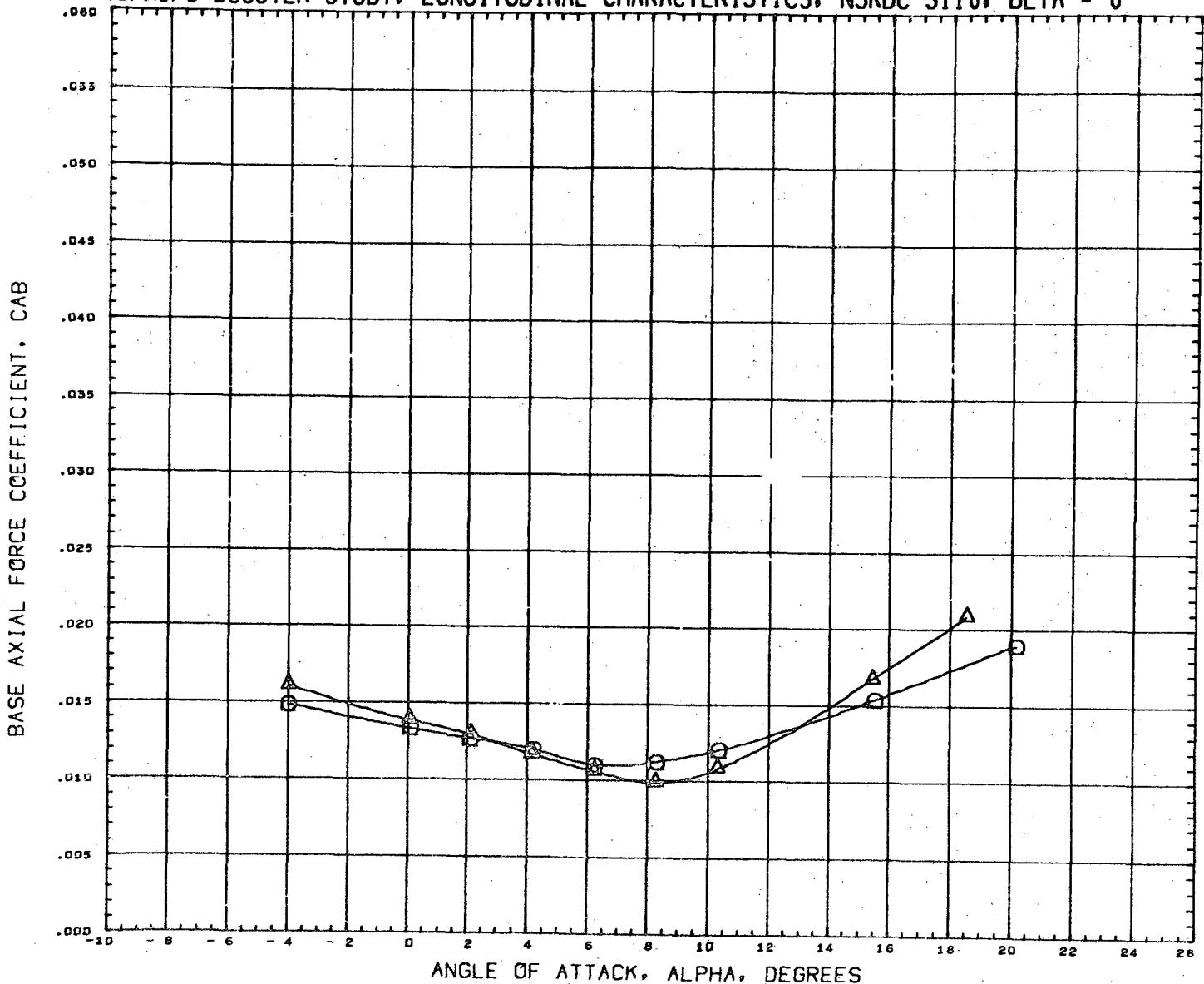
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2065) \circ	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2129) Δ	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XHRP 31.1400 INCHES
						YHRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

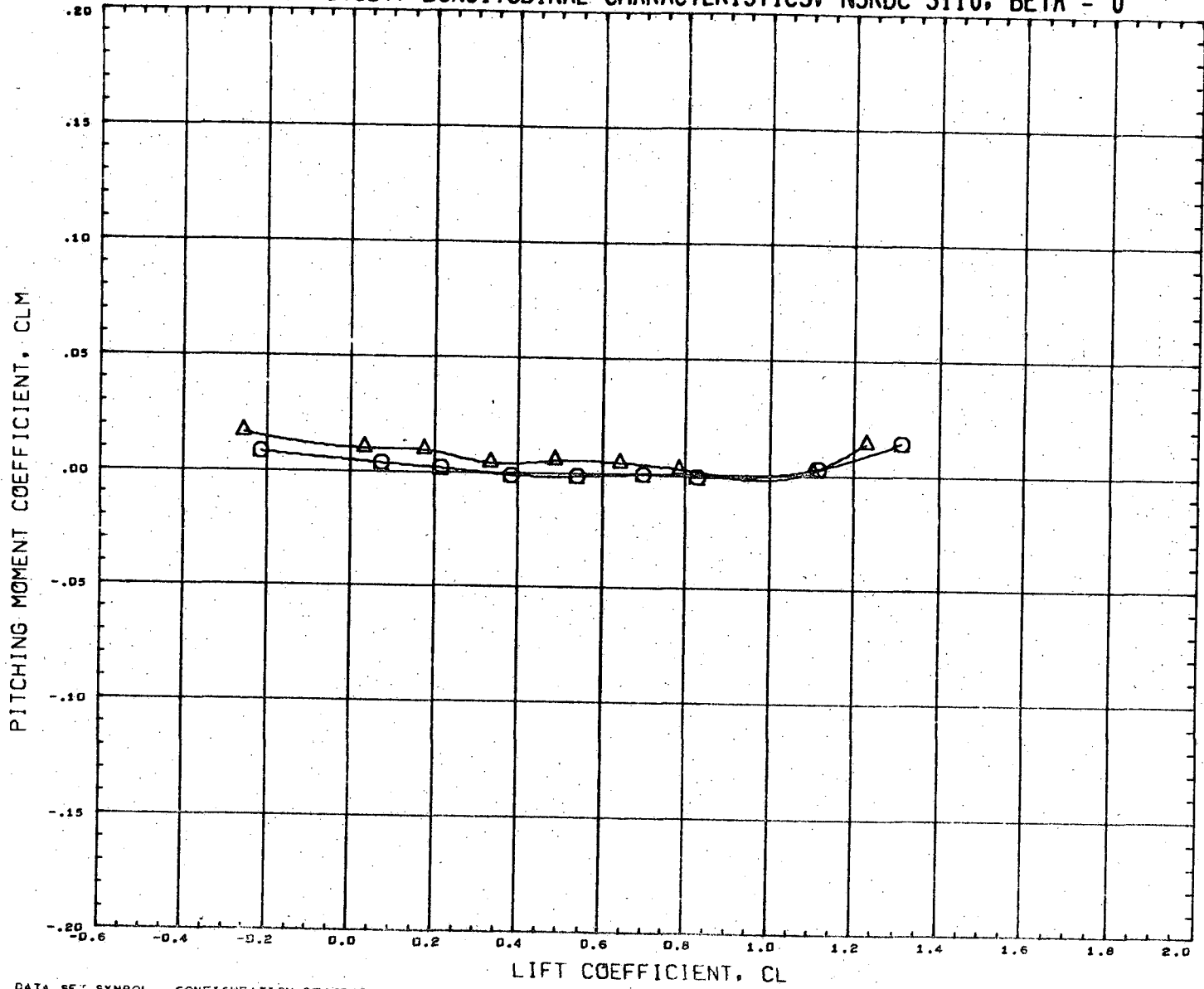
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2065)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2129)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

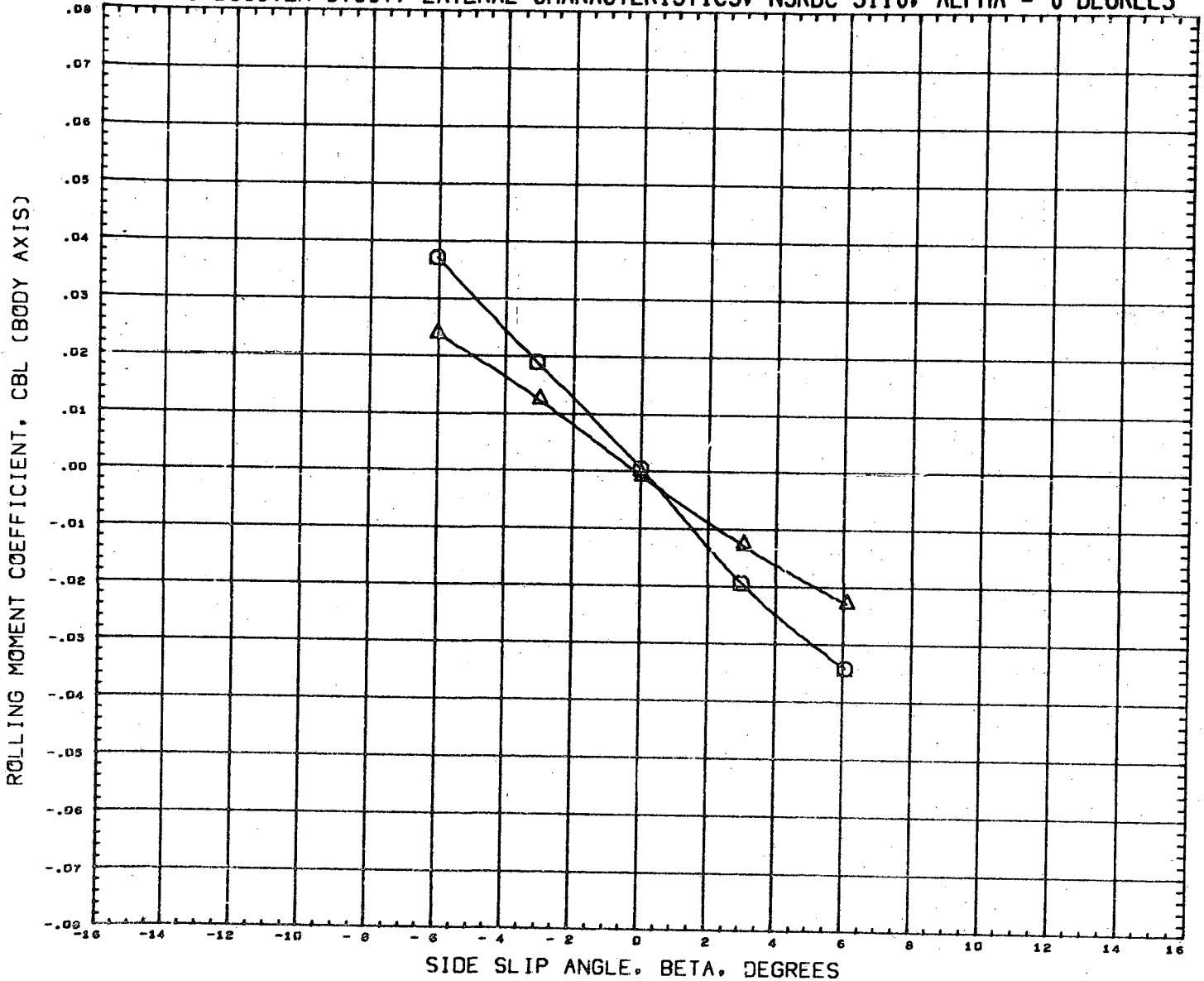
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2065)	○	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2129)	△	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	LREF	41.4360 INCHES
							BREF	41.4360 INCHES
							XMRP	31.1400 INCHES
							YMRP	0.0000 INCHES
							ZMRP	0.2250 INCHES
							SCALE	1.5000 PERCENT

MACH 0.381

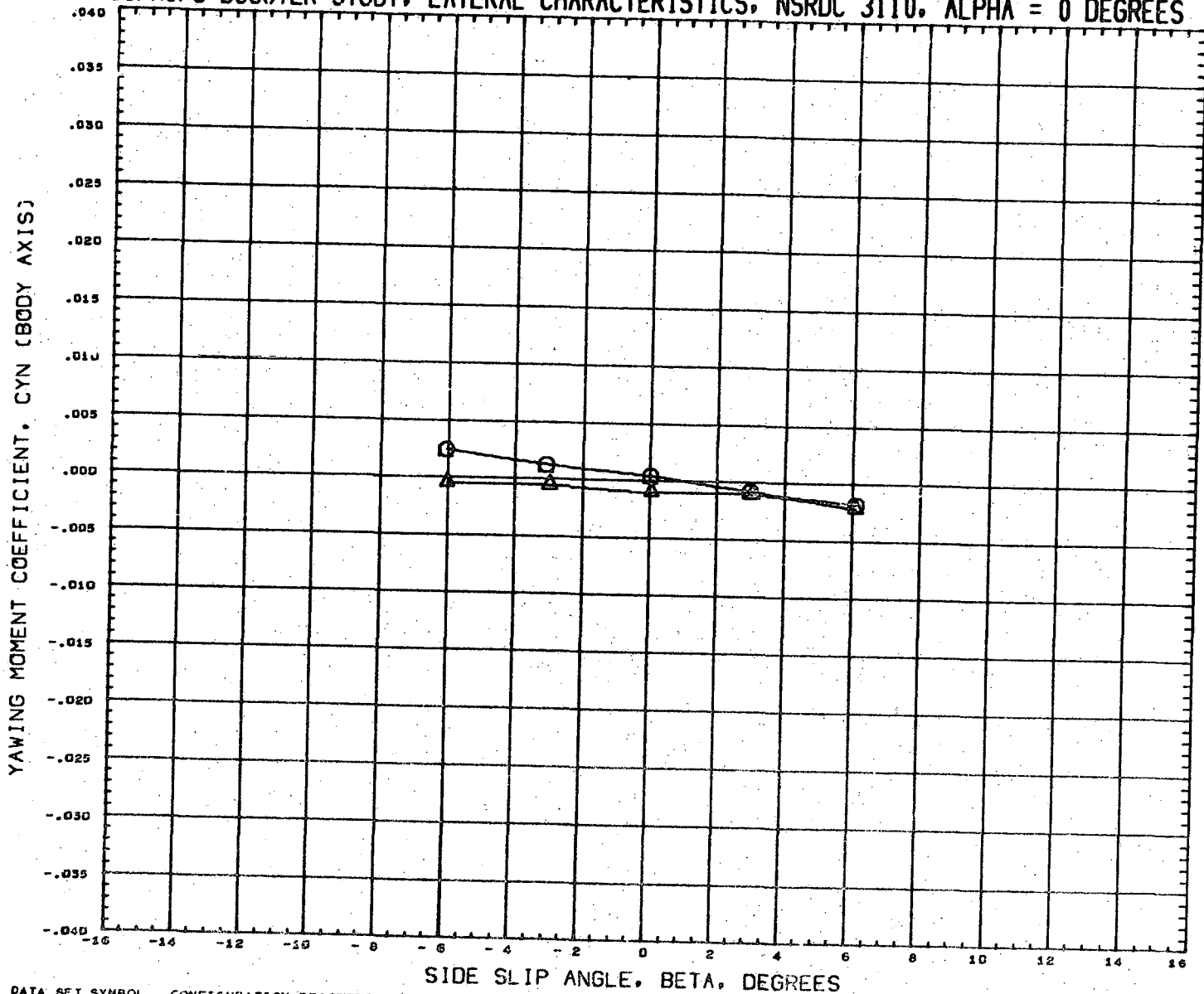
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2066)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2130)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2066)
(RN2130)



CONFIGURATION DESCRIPTION

NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	1.000

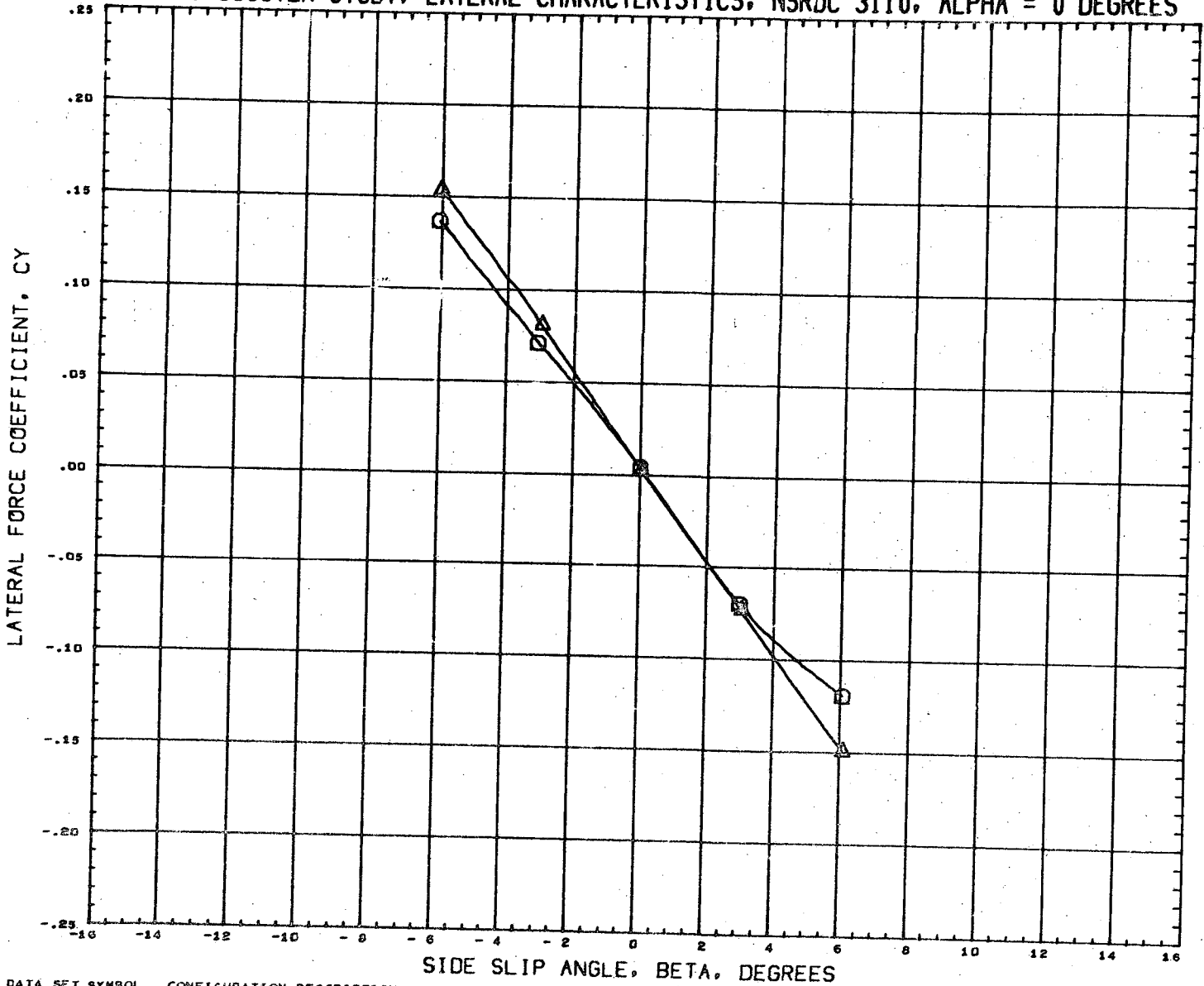
REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH

0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
 (RH2066) □
 (RH2130) △

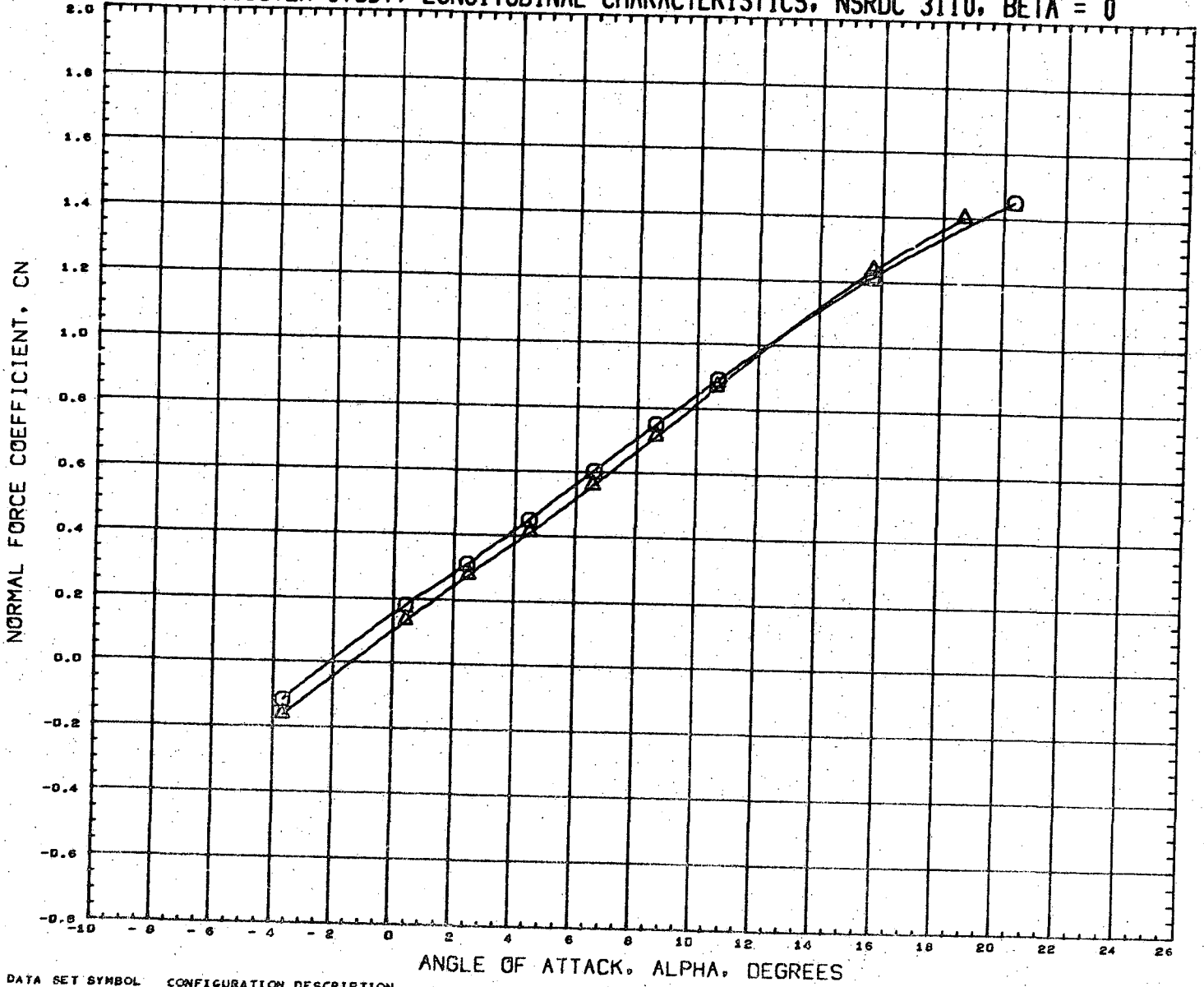
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1
 NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1

INCIDC CNDPOS INCIDW WNGPOS
 3.000 1.000 0.000 1.000
 3.000 1.000 0.000 1.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRF 31.1400 INCHES
 YMRF 0.0000 INCHES
 ZMRF 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.361

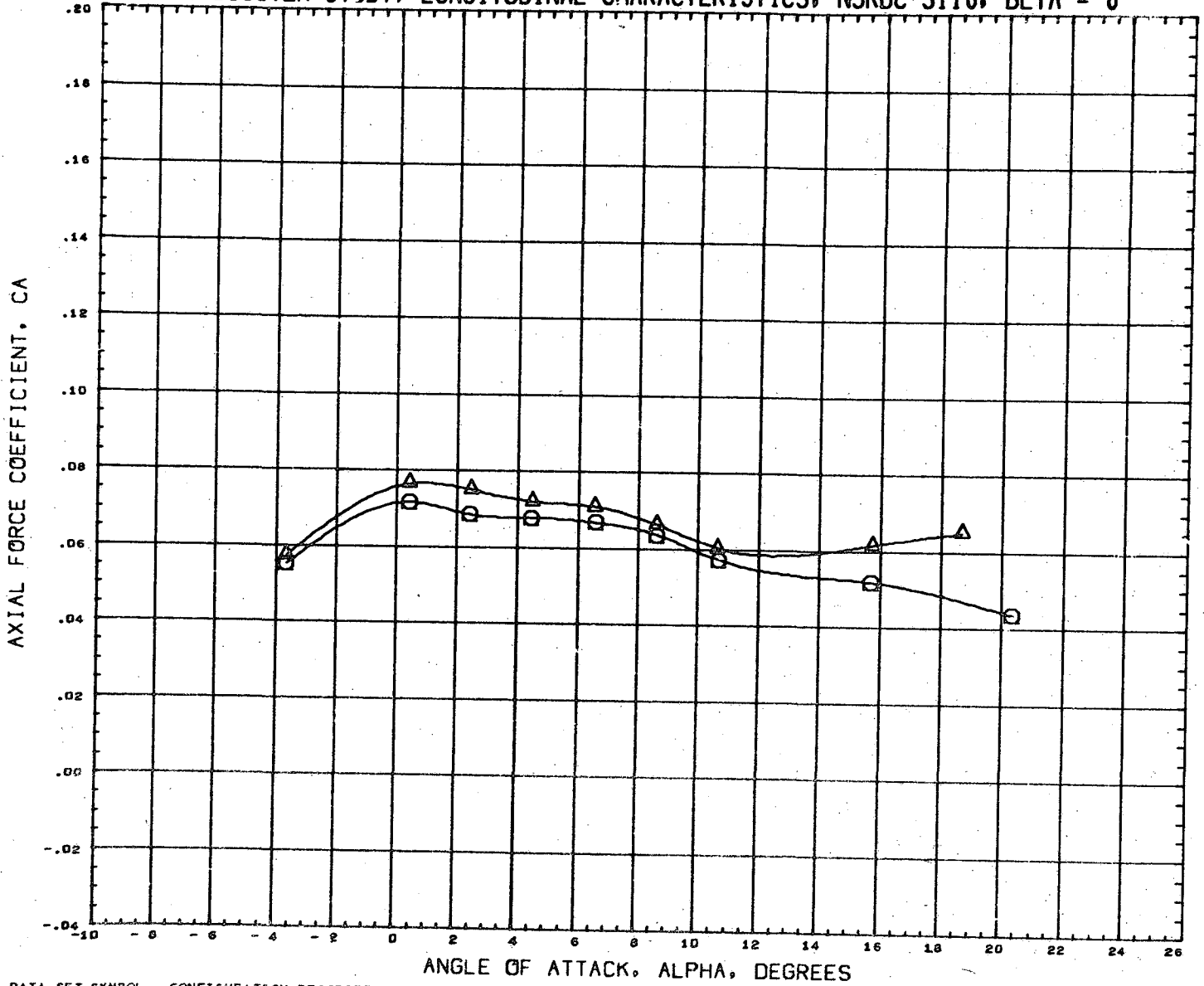
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2069)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2135)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.050	1.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

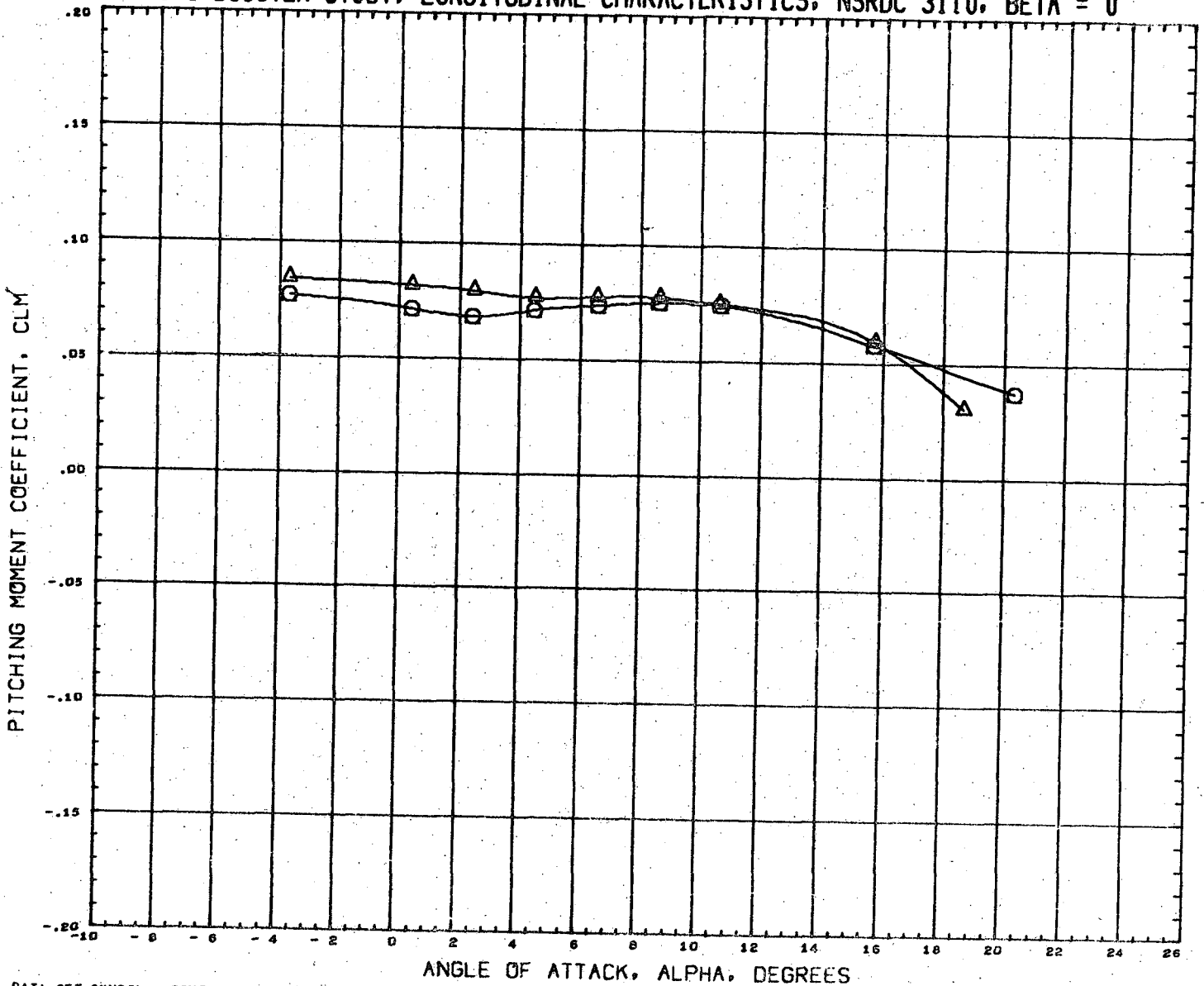
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2069)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2133)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

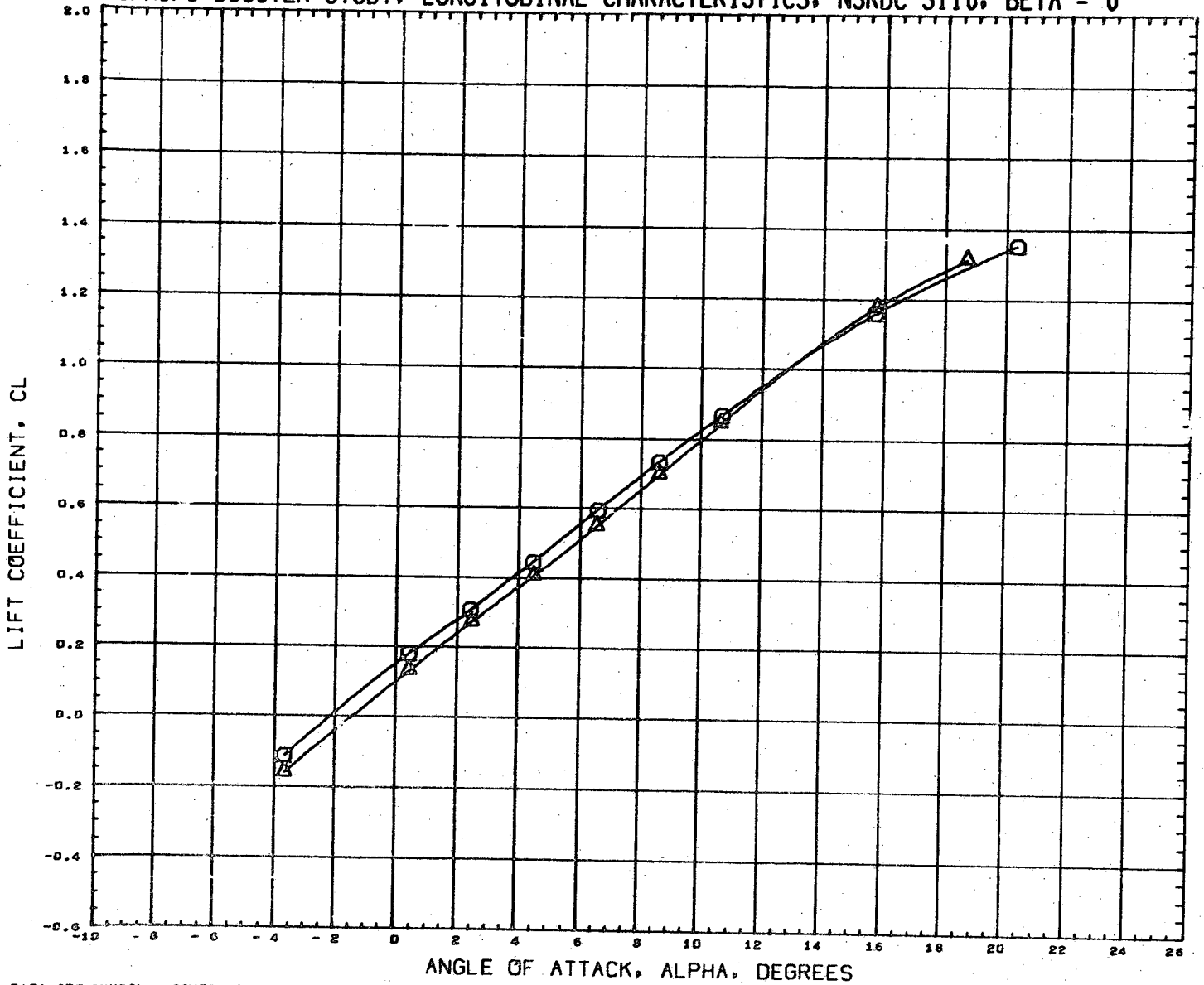
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPCS	REFERENCE INFORMATION
(RN2069)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2133)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.361

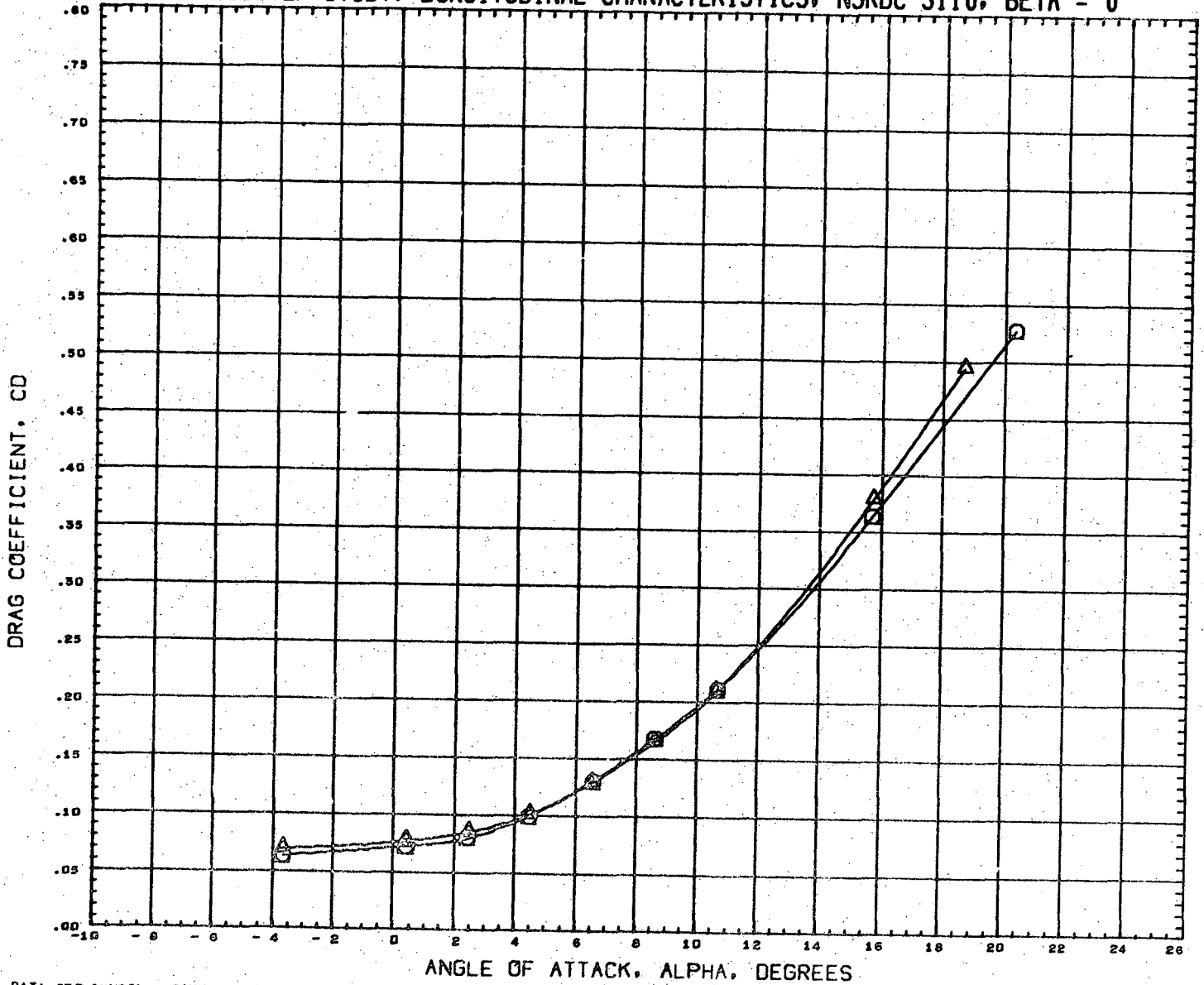
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2069)	NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2133)	NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2069) 
(RN2133) 

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

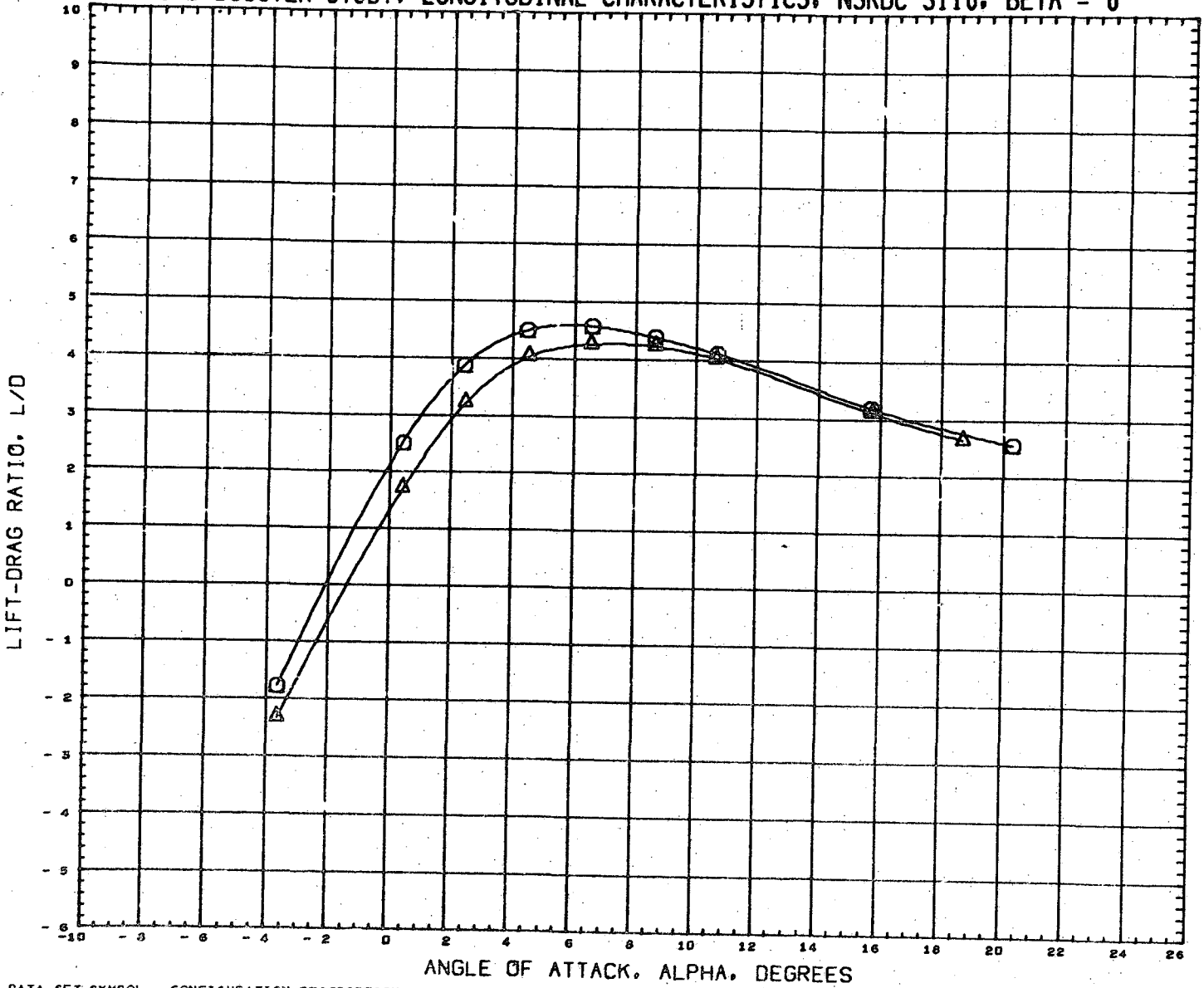
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2069) Q
(RN2133) A

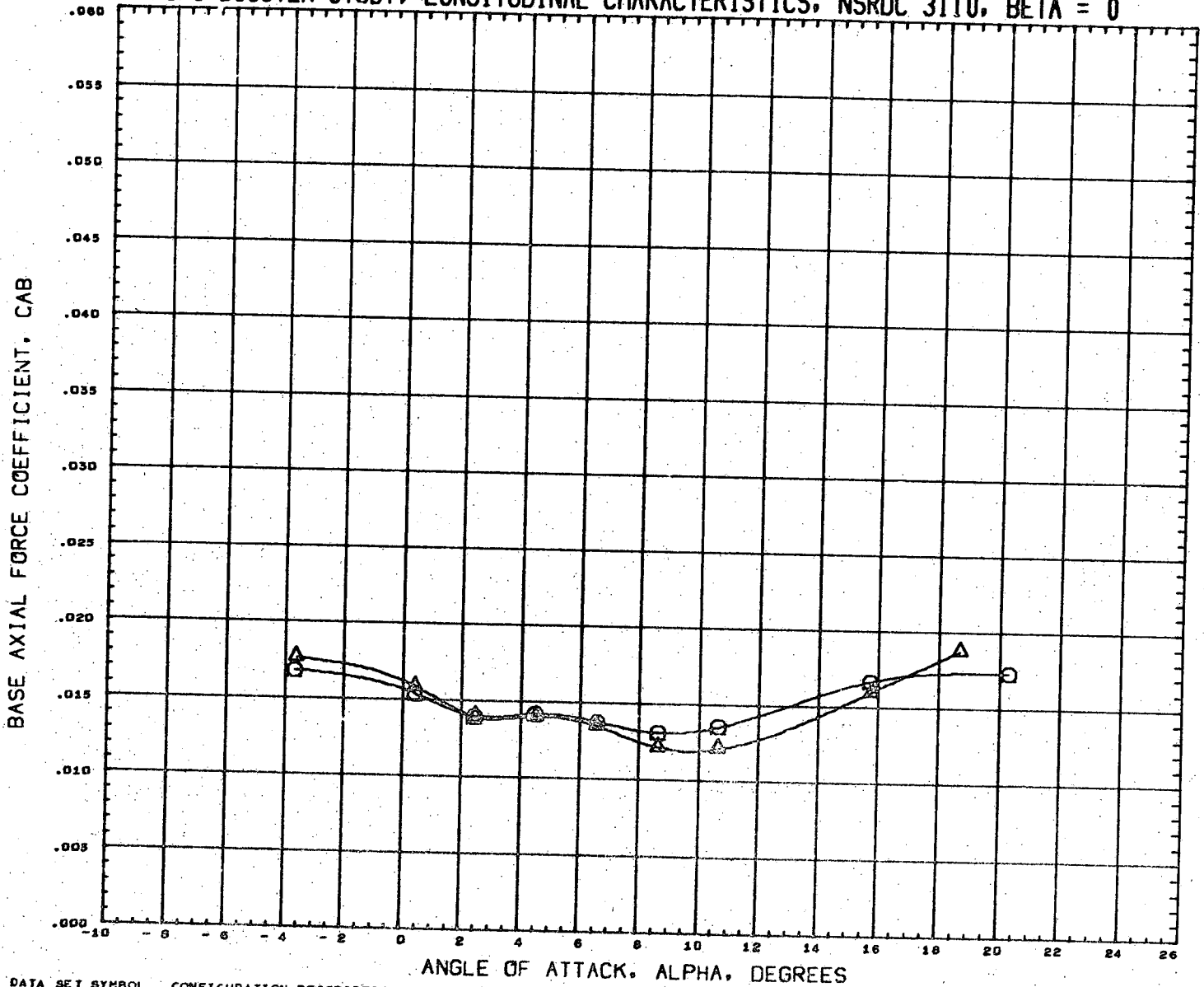
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNSPOS
15.000	1.000	0.900	1.000
15.000	1.000	0.800	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2069)
(RN2133)



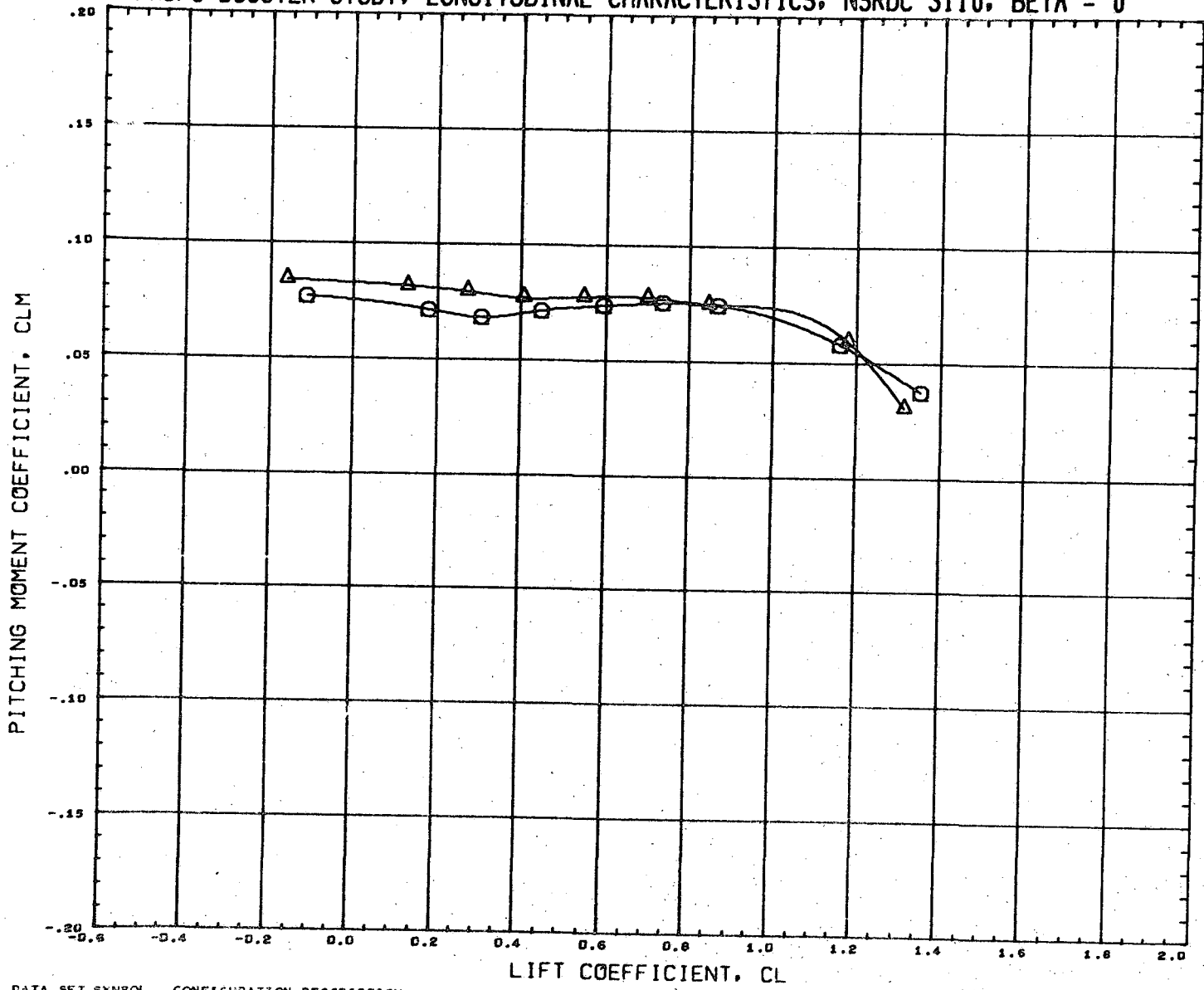
CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	-1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

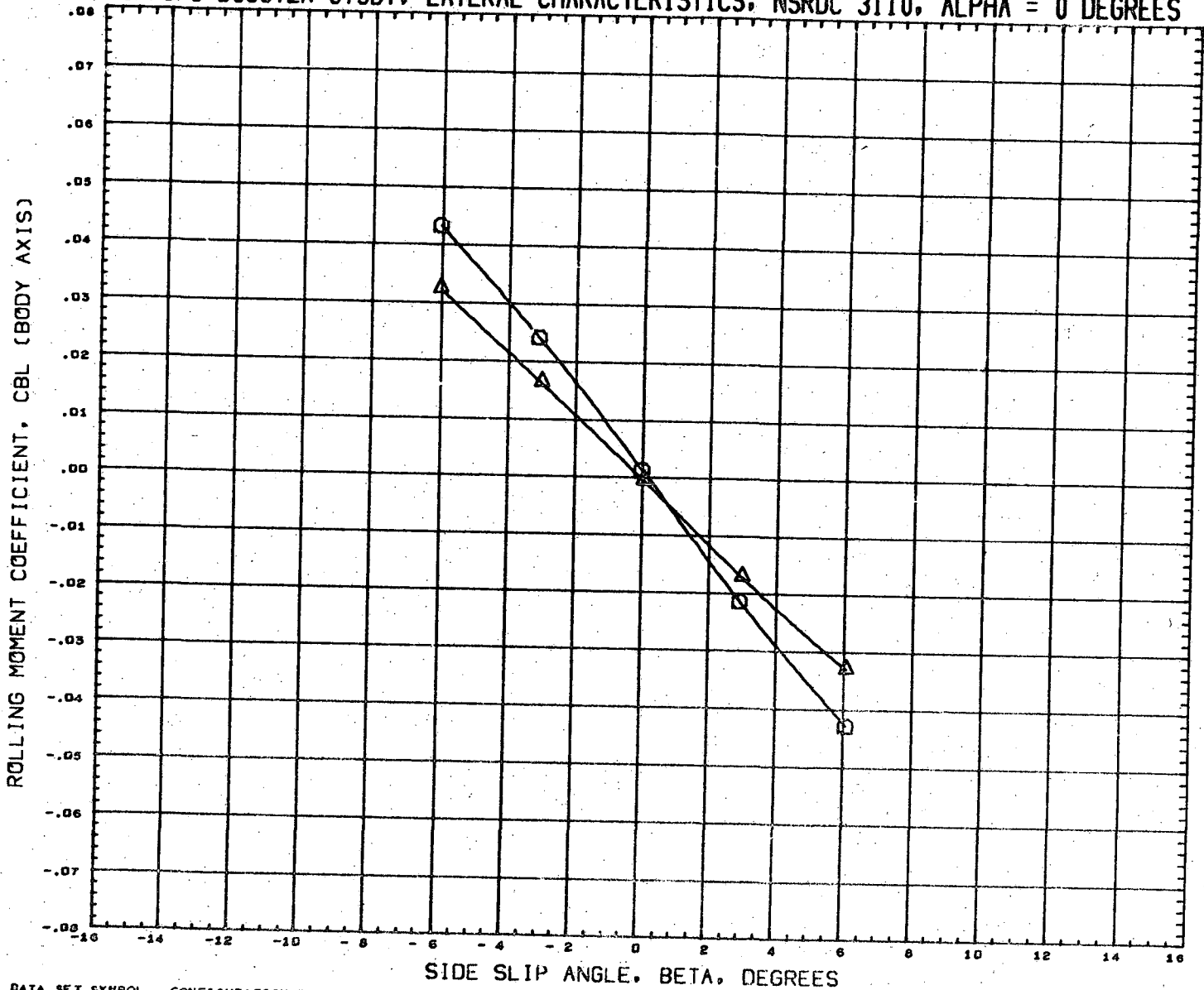
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2069)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2133)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



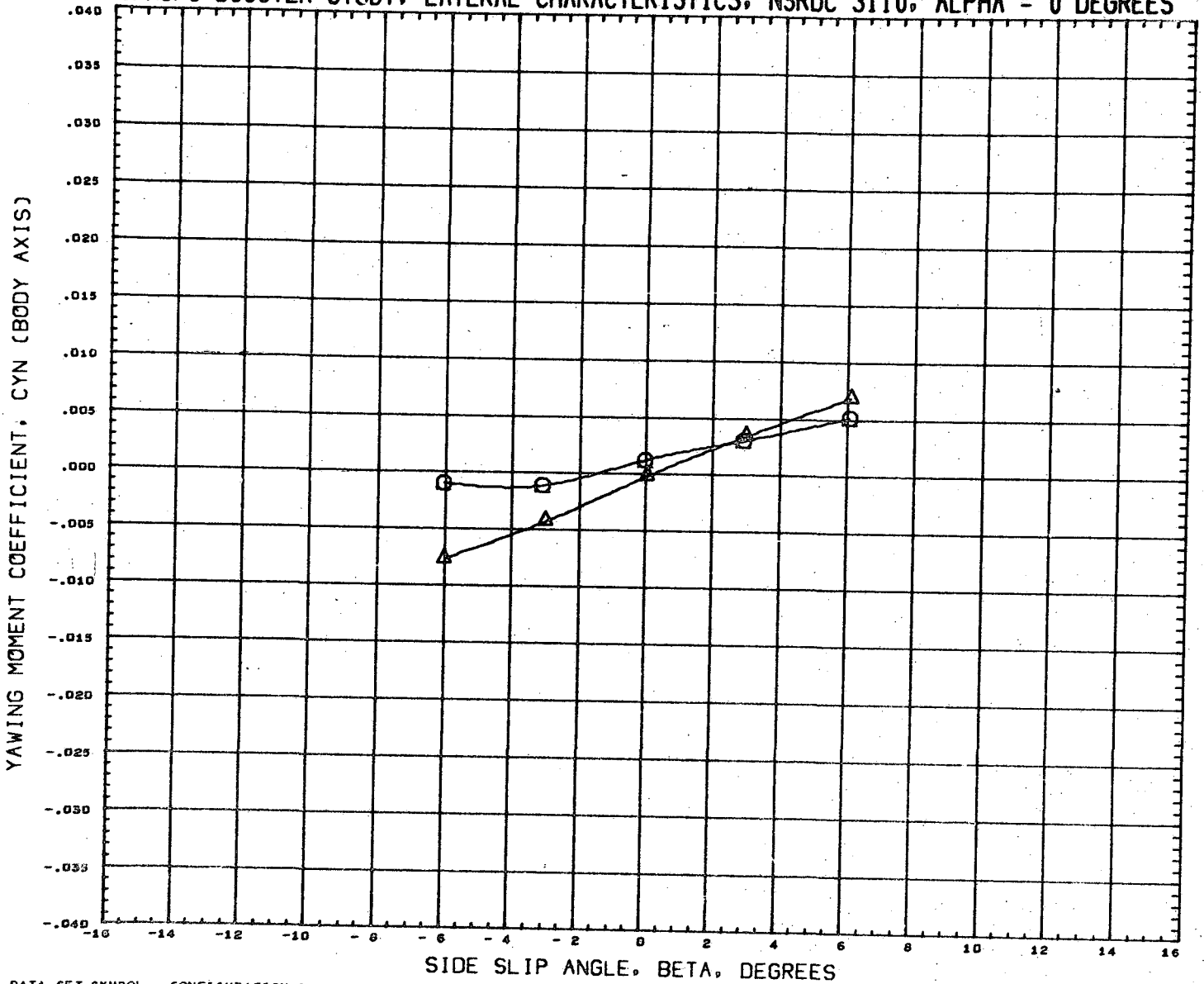
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2070)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2134)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.379

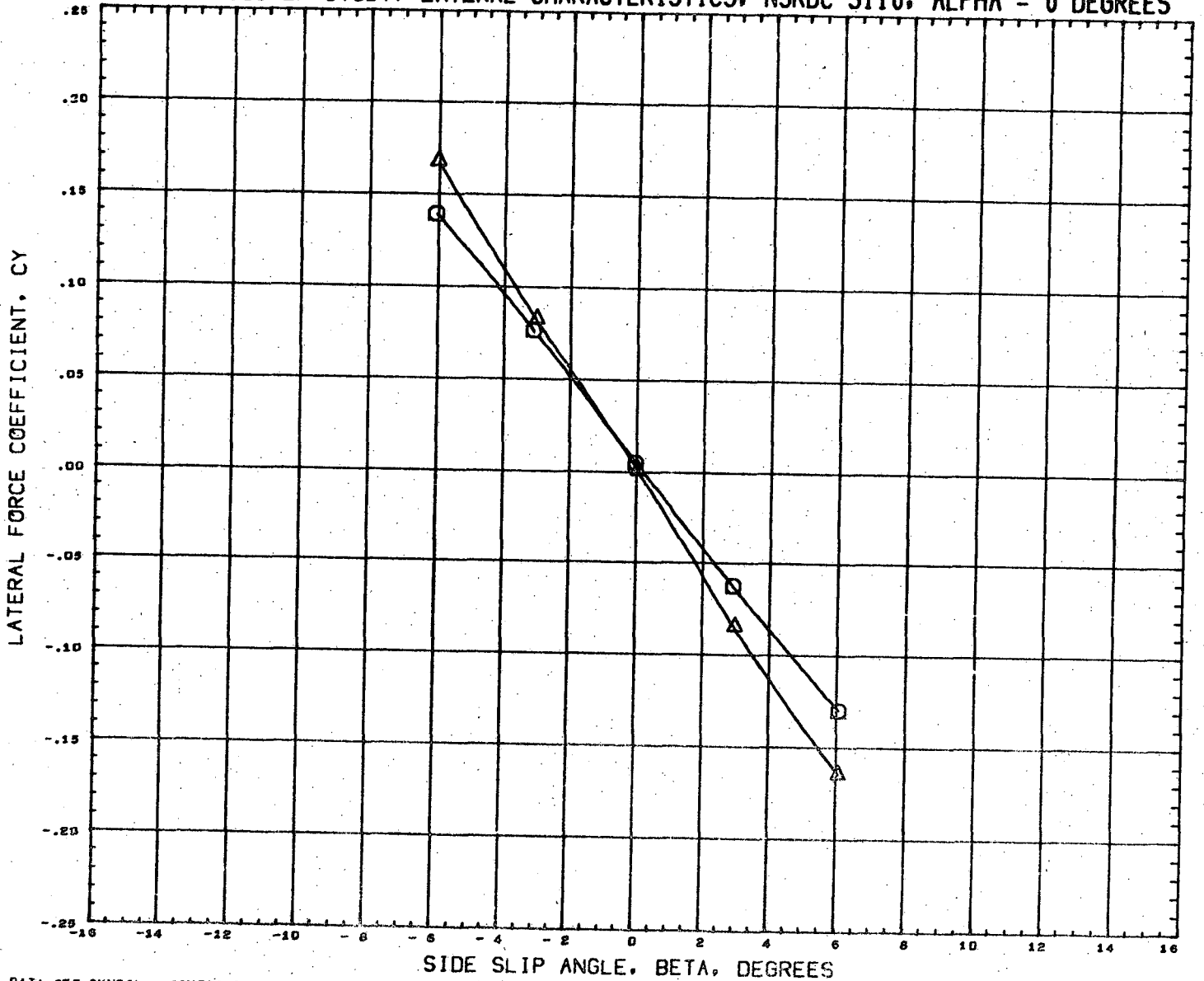
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2070)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2134)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.379

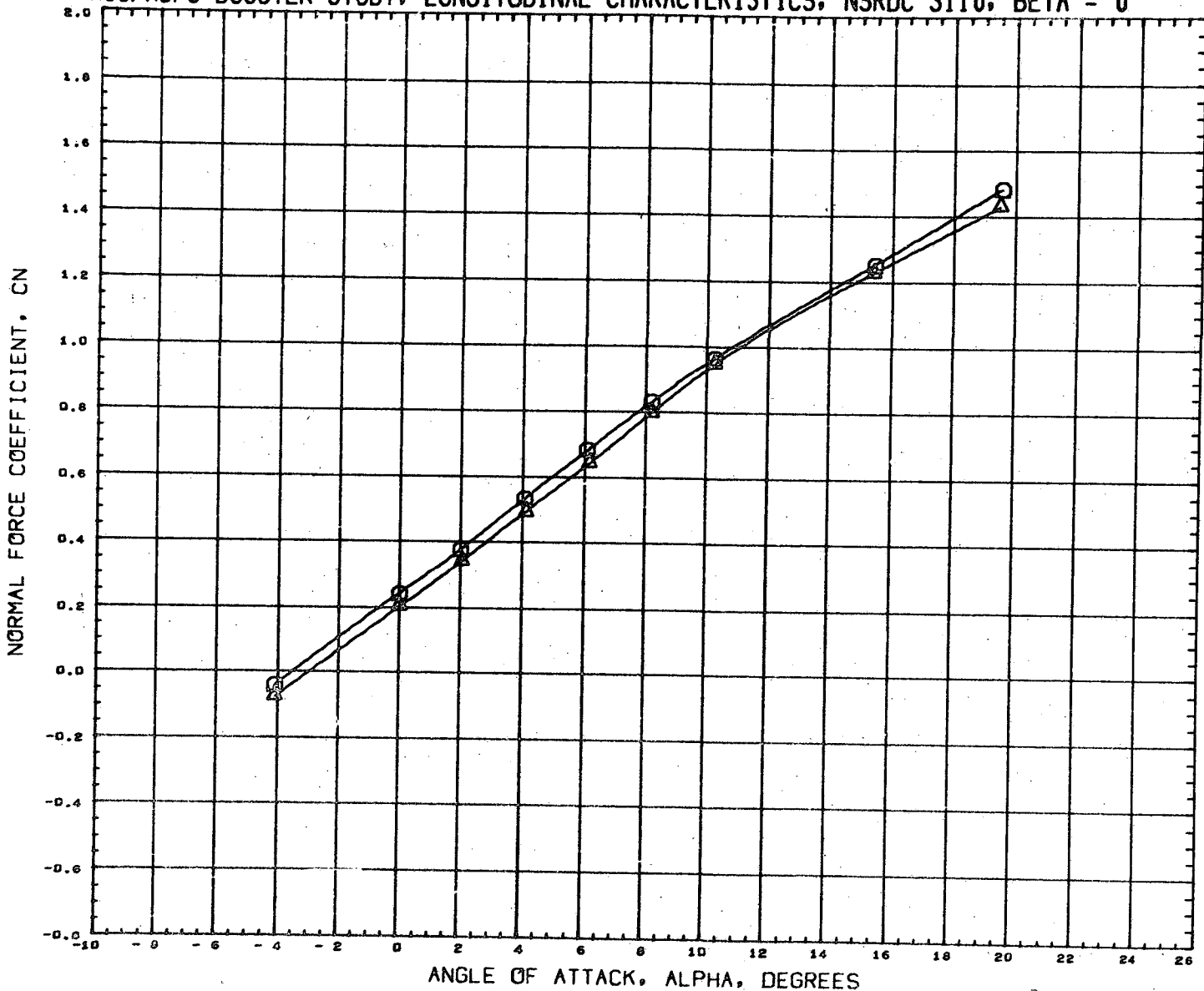
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2070)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2134)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

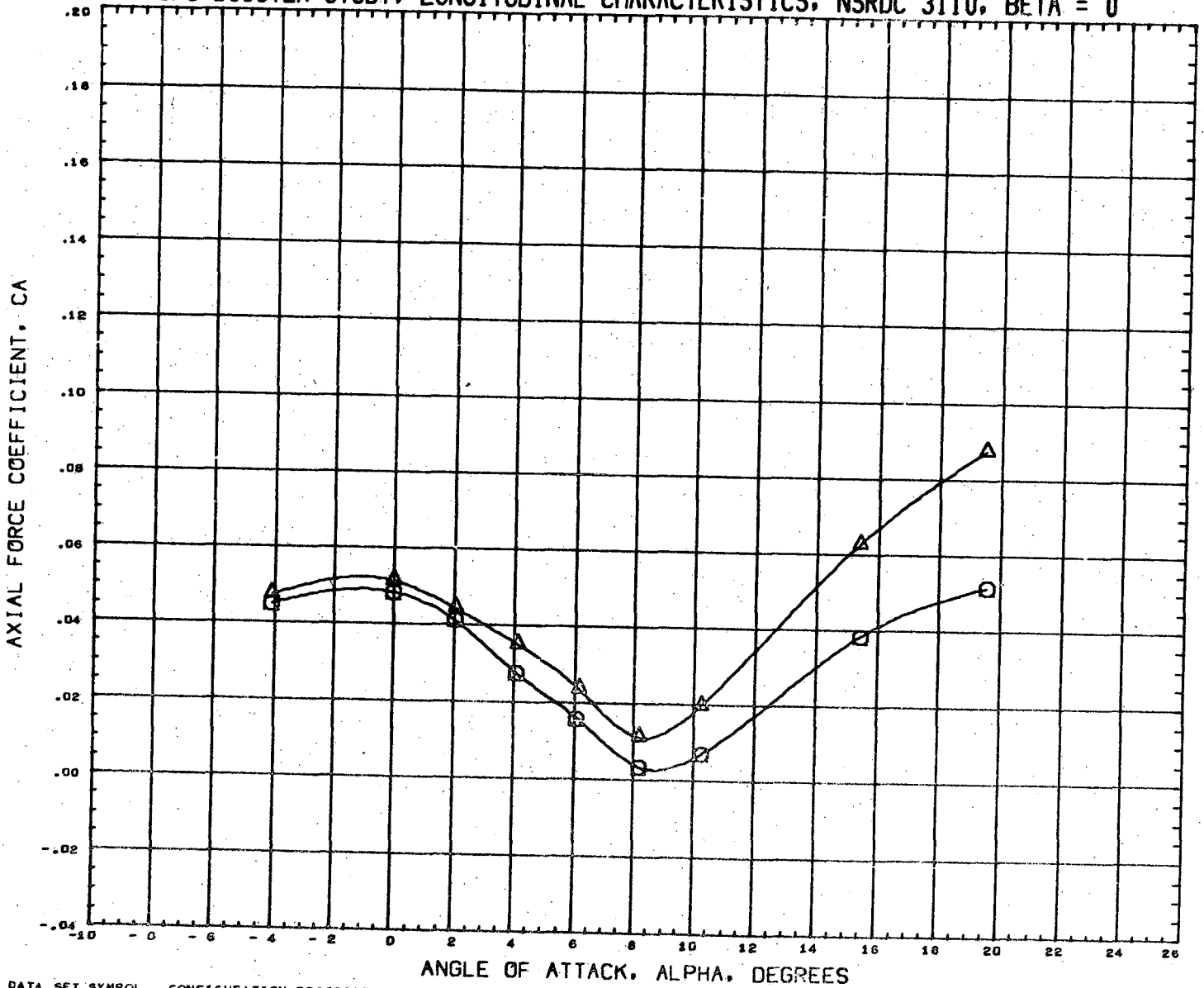
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RM2097)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RM2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2097)
(RN2161)

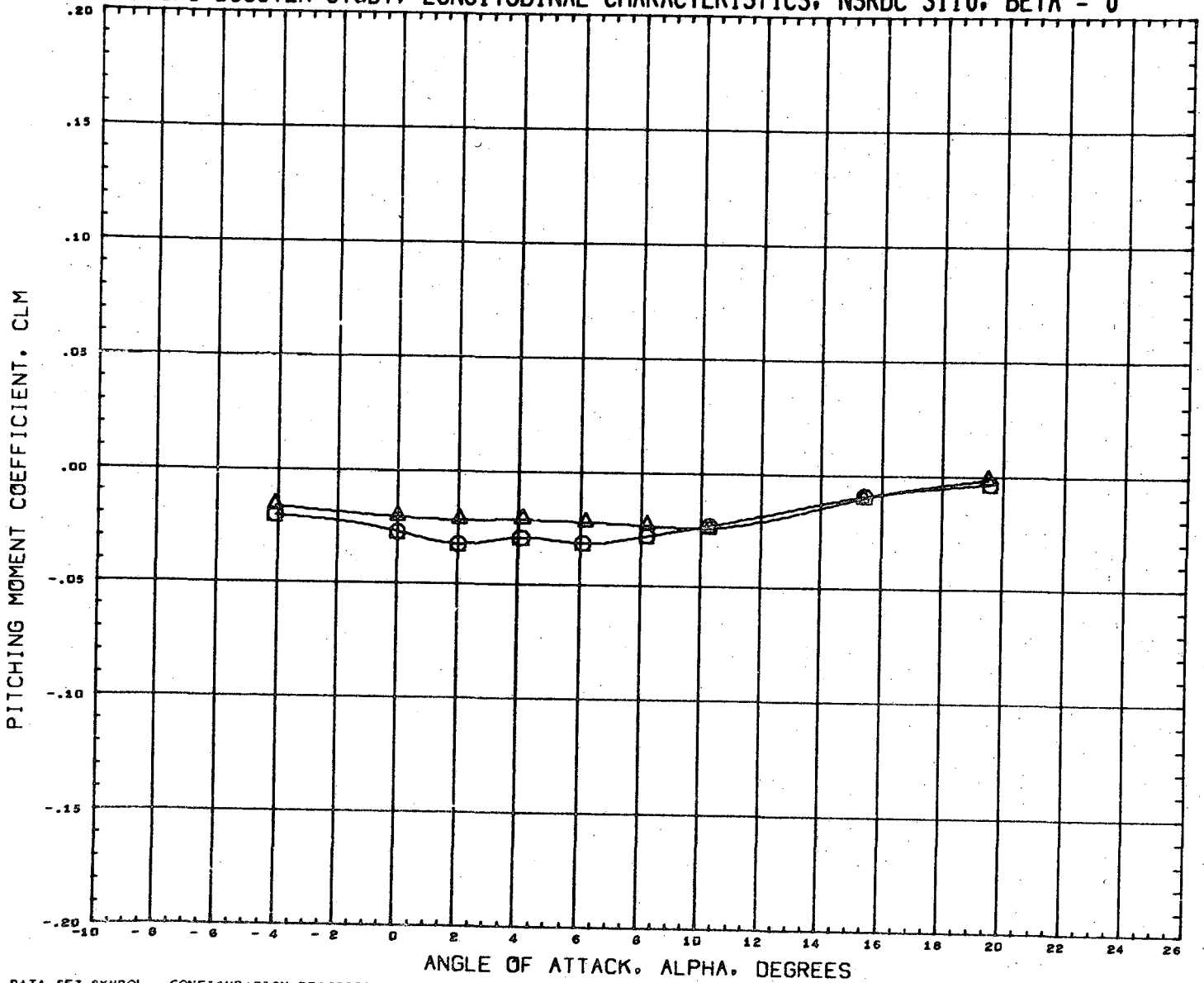
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2097) Q
(RN2161) A

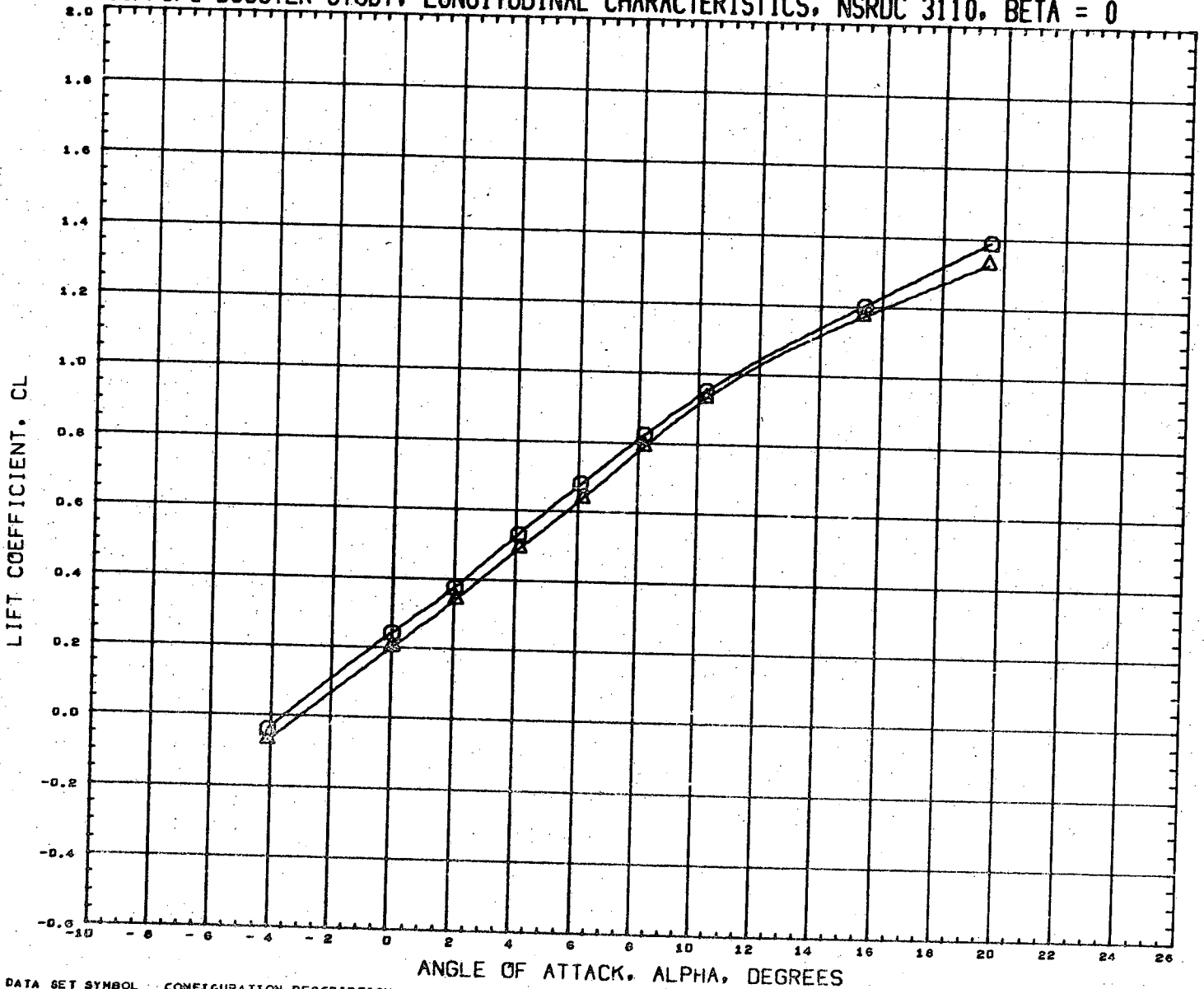
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



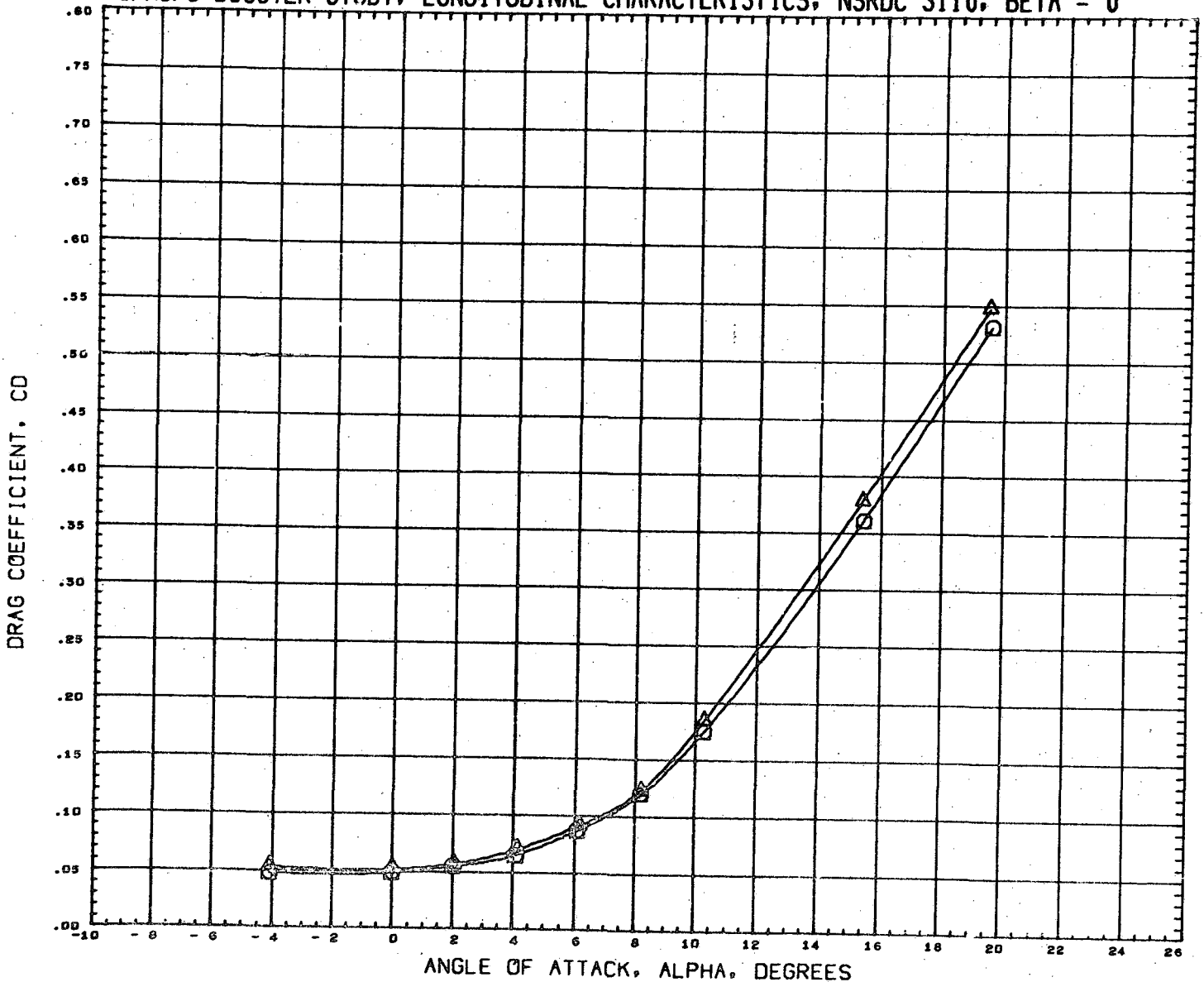
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2097)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2161)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.393

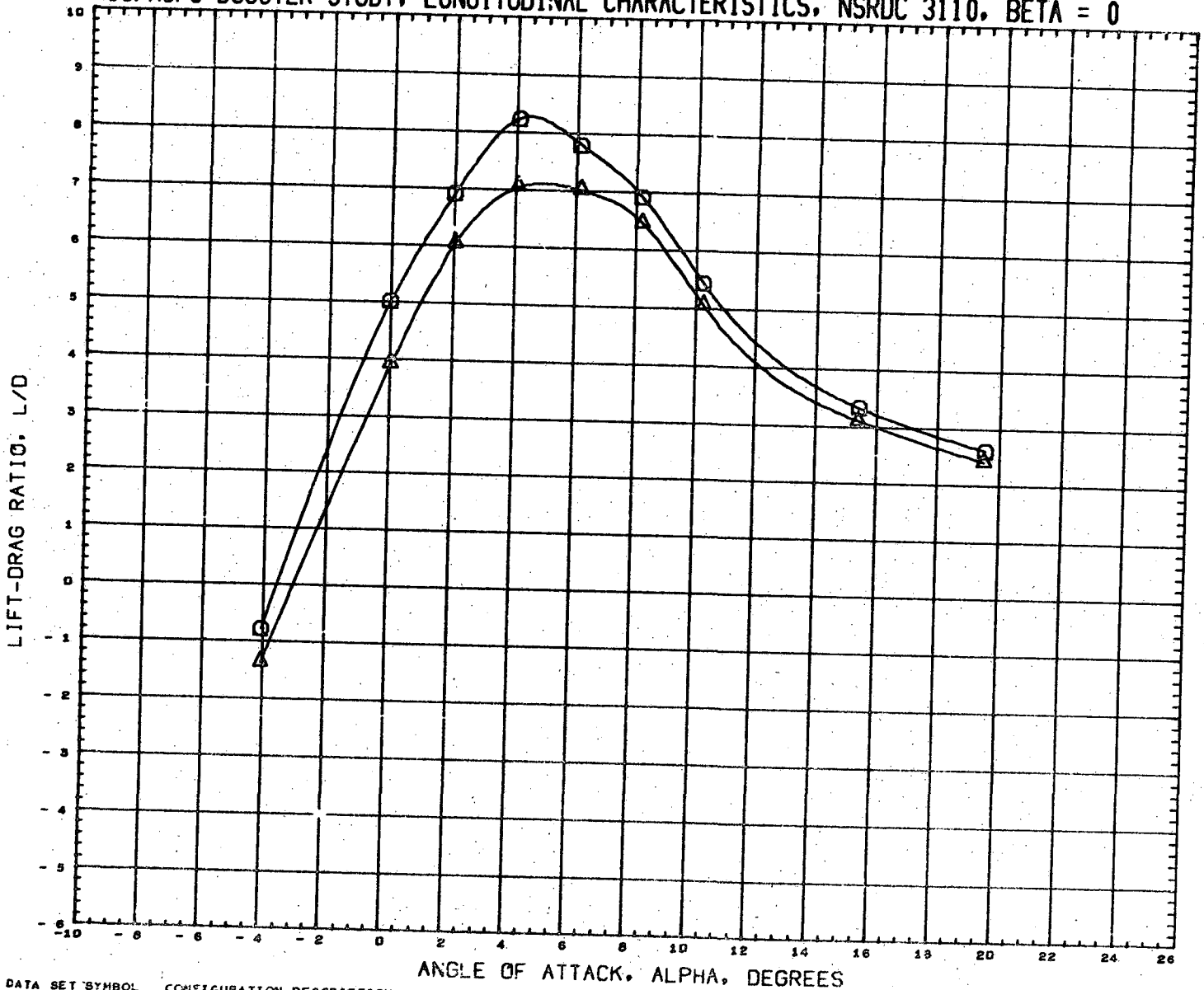
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2097)	NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2161)	NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XHRP	31.1400 INCHES
						YHRP	0.0000 INCHES
						ZHRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.363

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2097)
(RN2161)



CONFIGURATION DESCRIPTION

NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

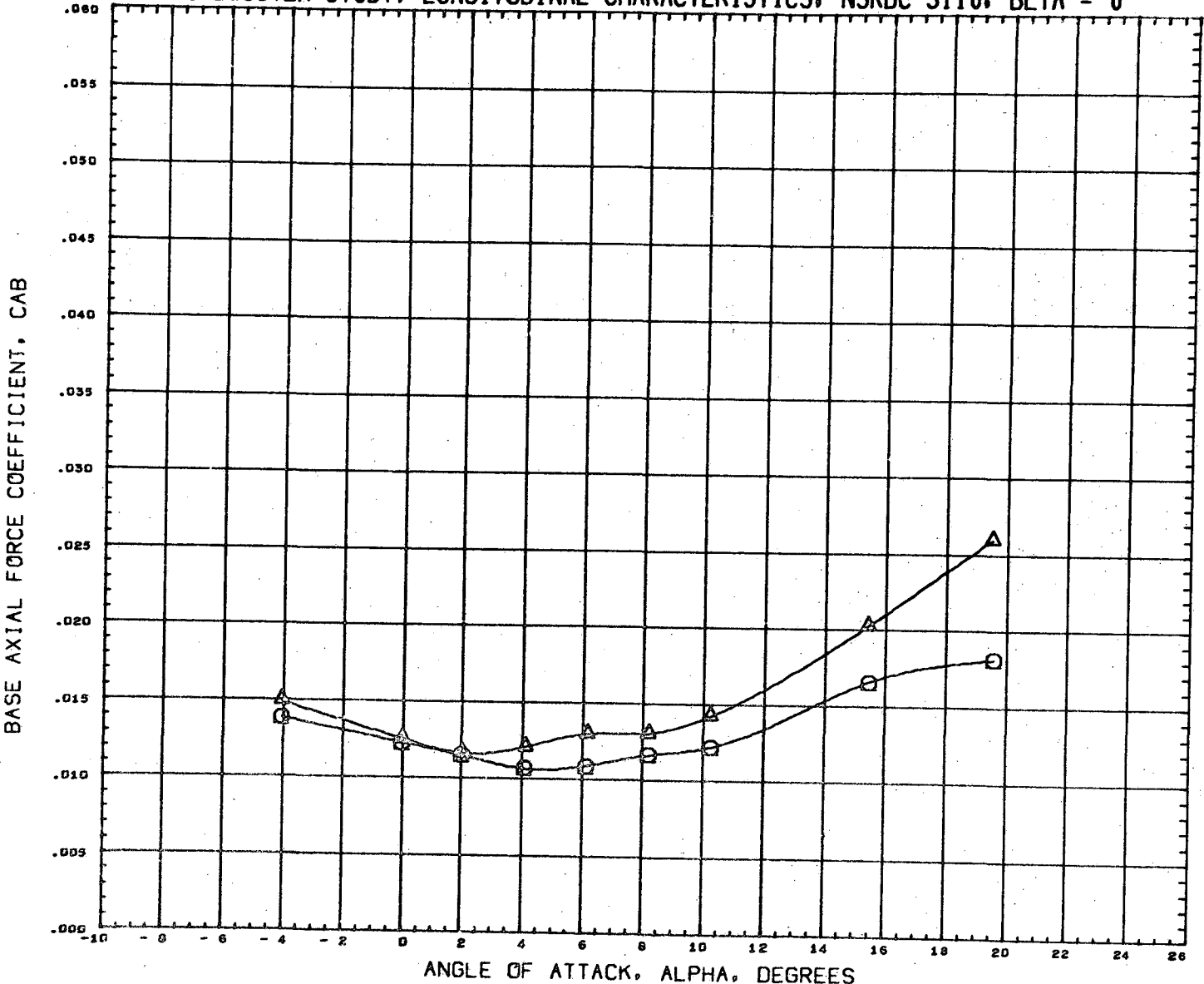
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.383

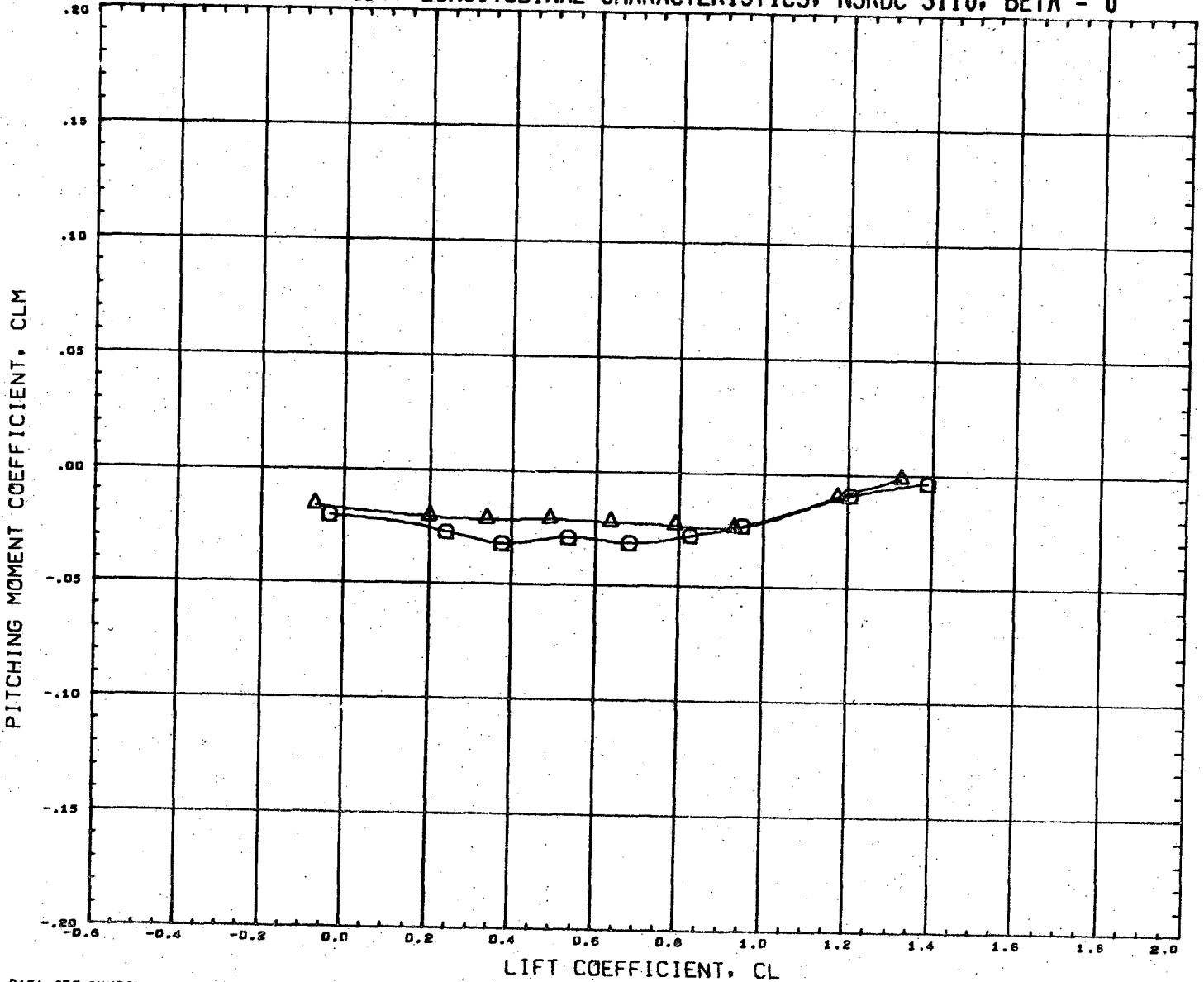
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2097)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2161)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.363

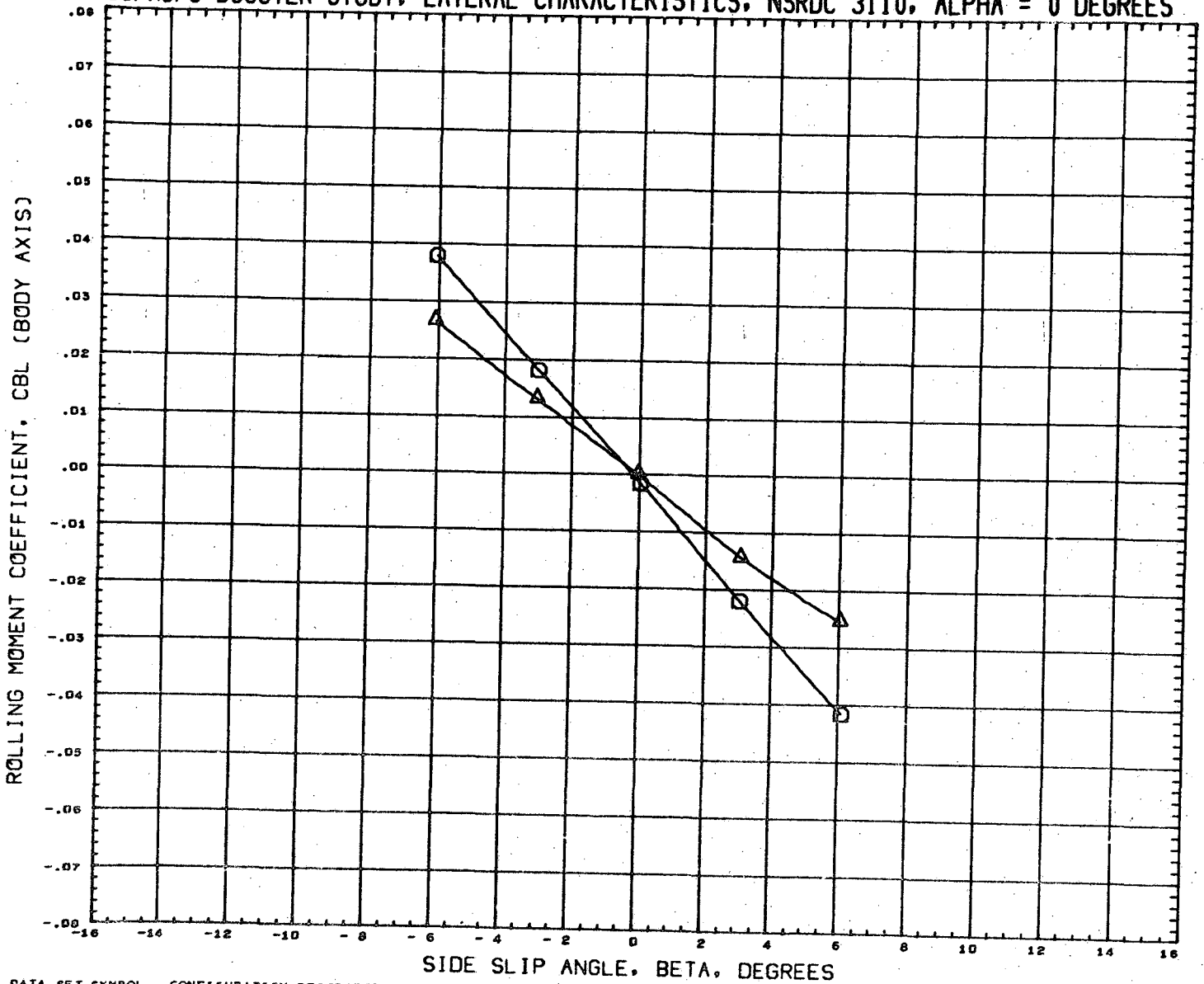
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2097)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

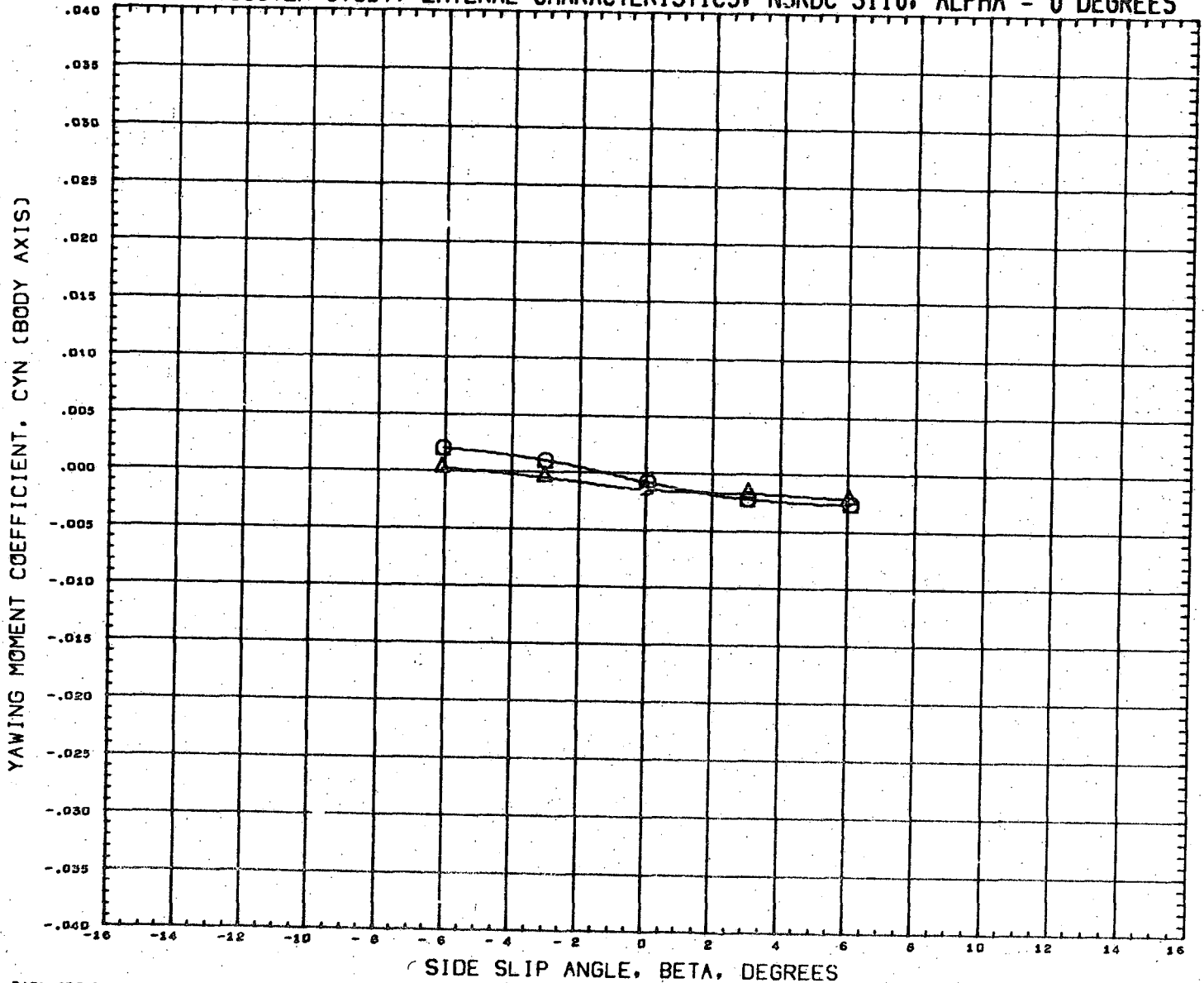
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2098)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2162)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

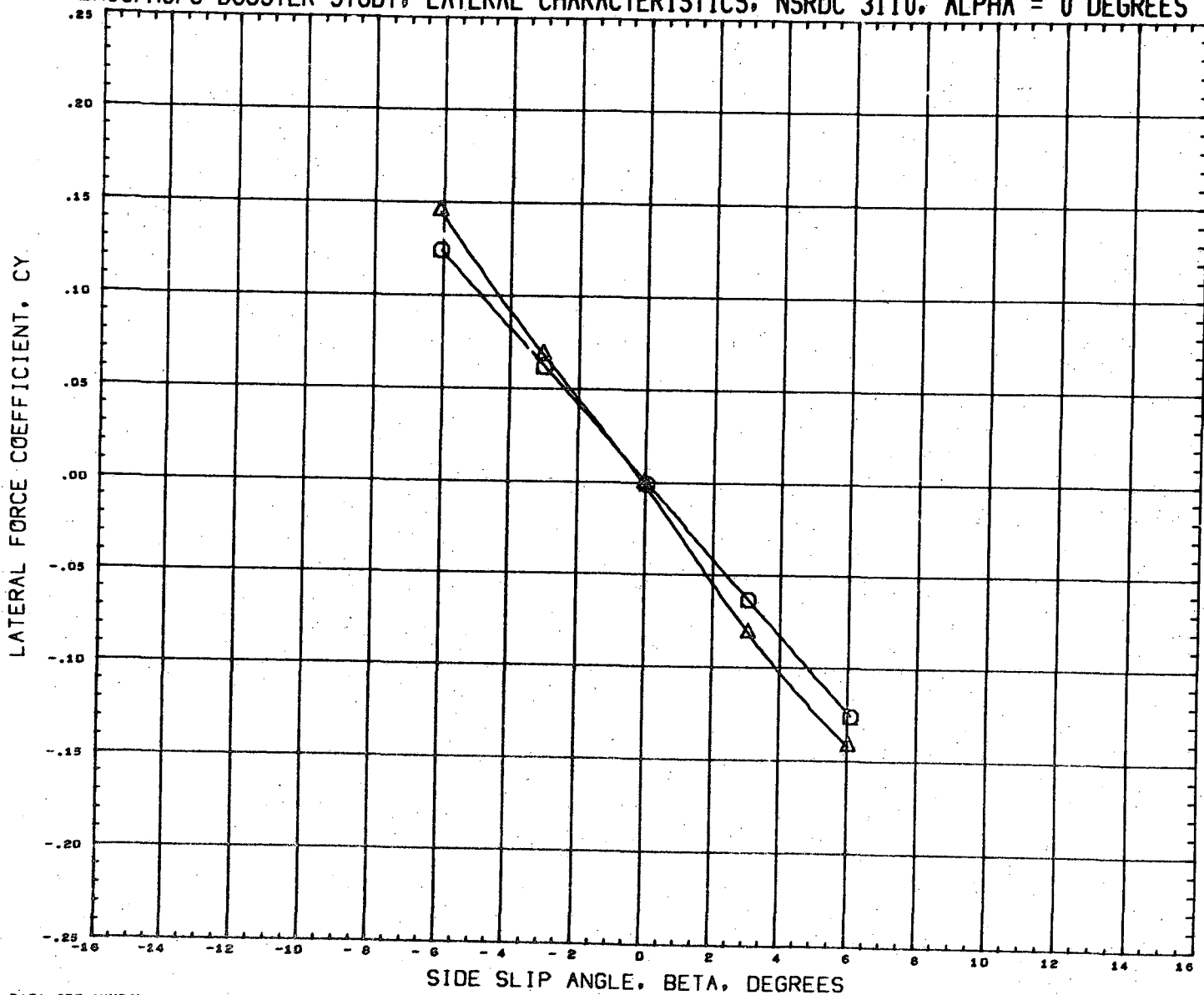
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2099)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2162)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	5.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

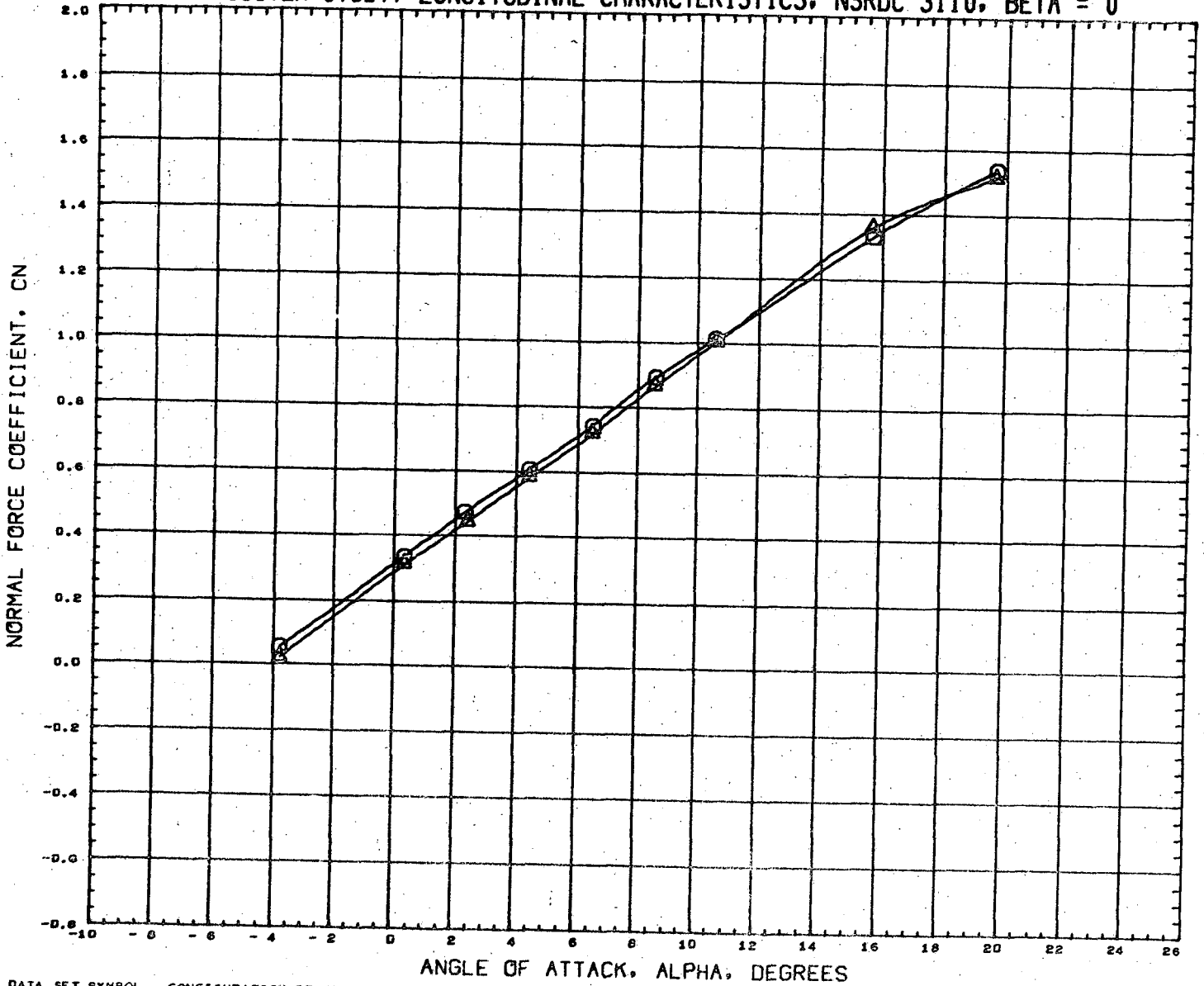
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2D98)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2182)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

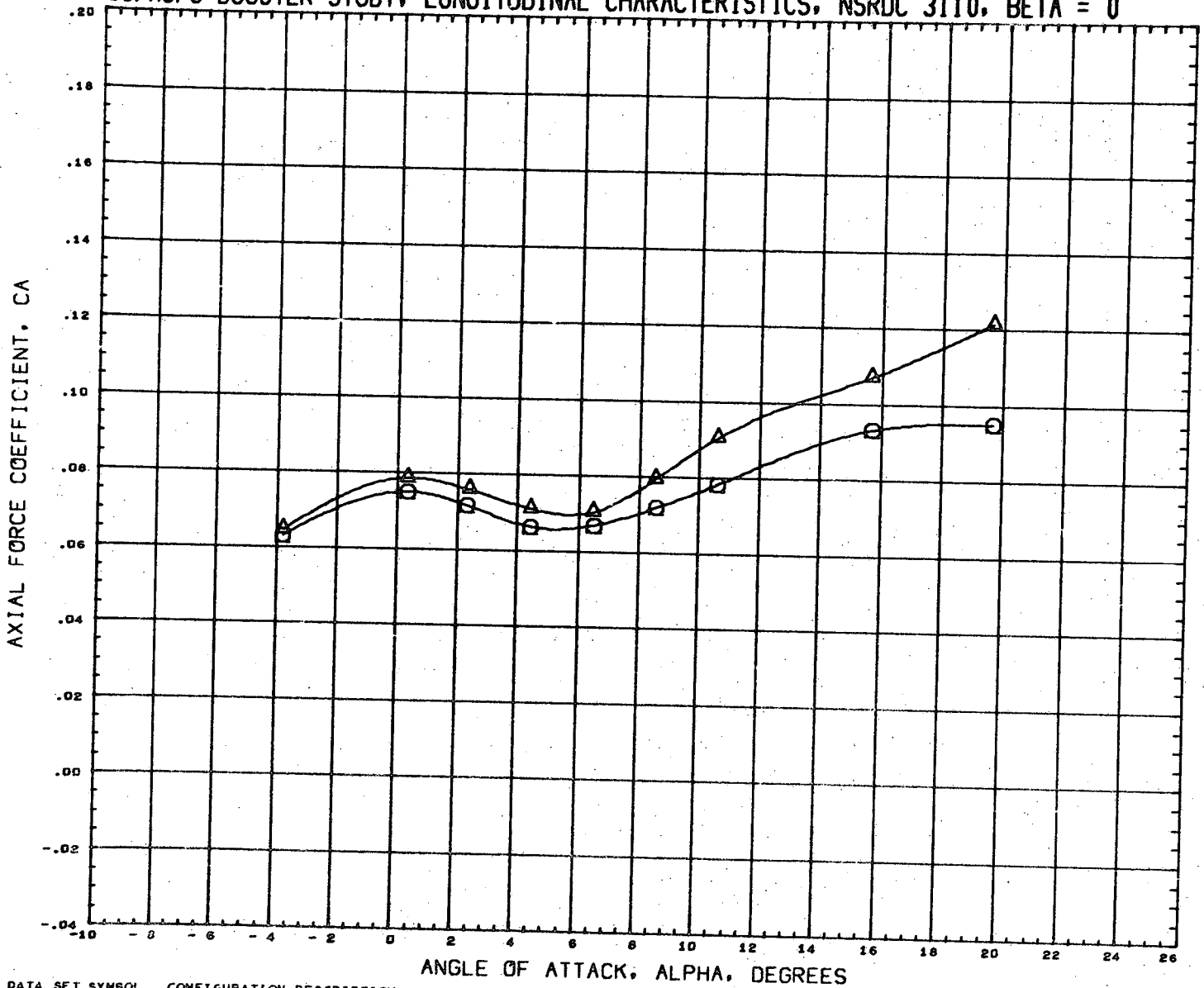
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2101)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2105)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.301

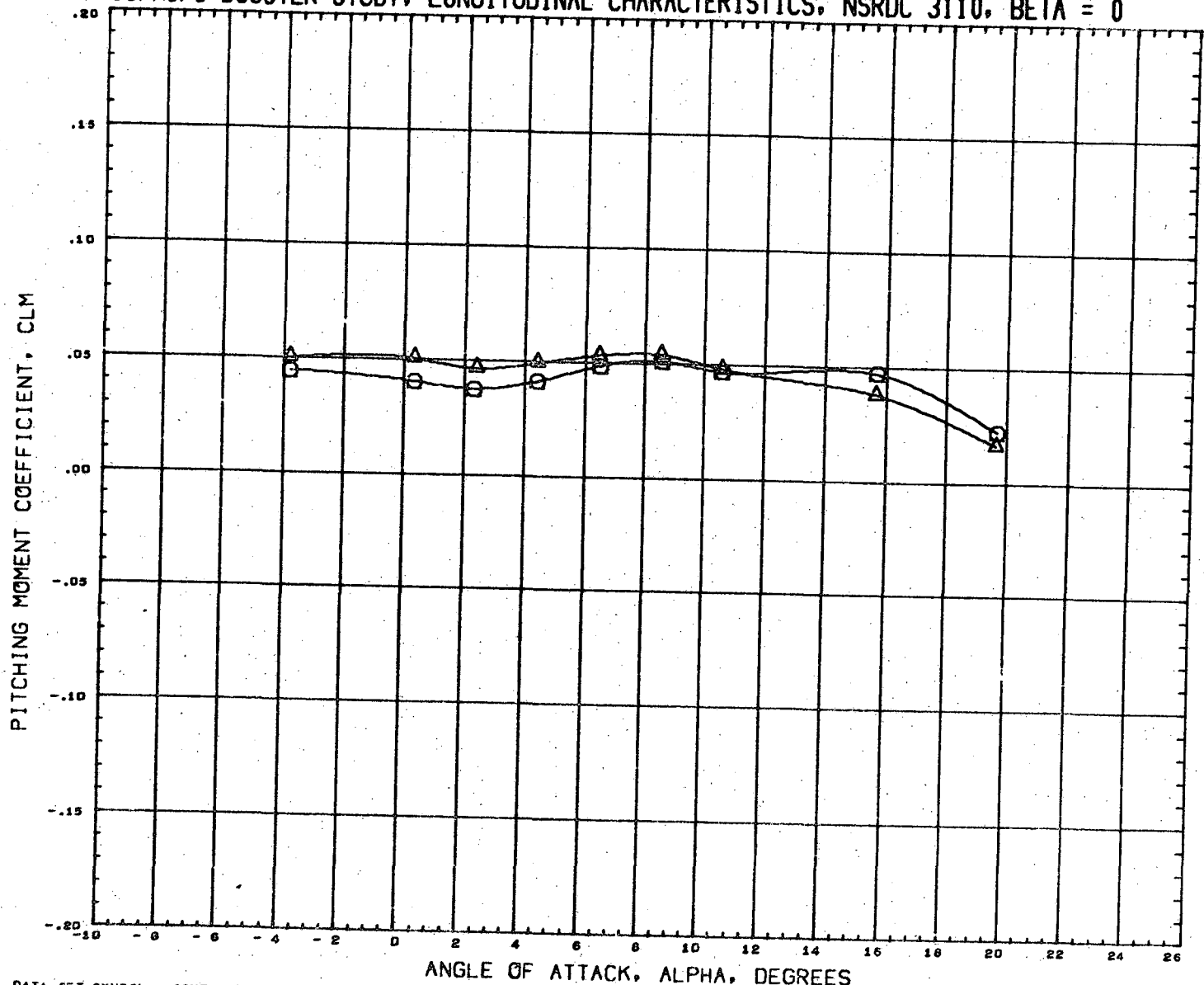
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2101)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2165)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

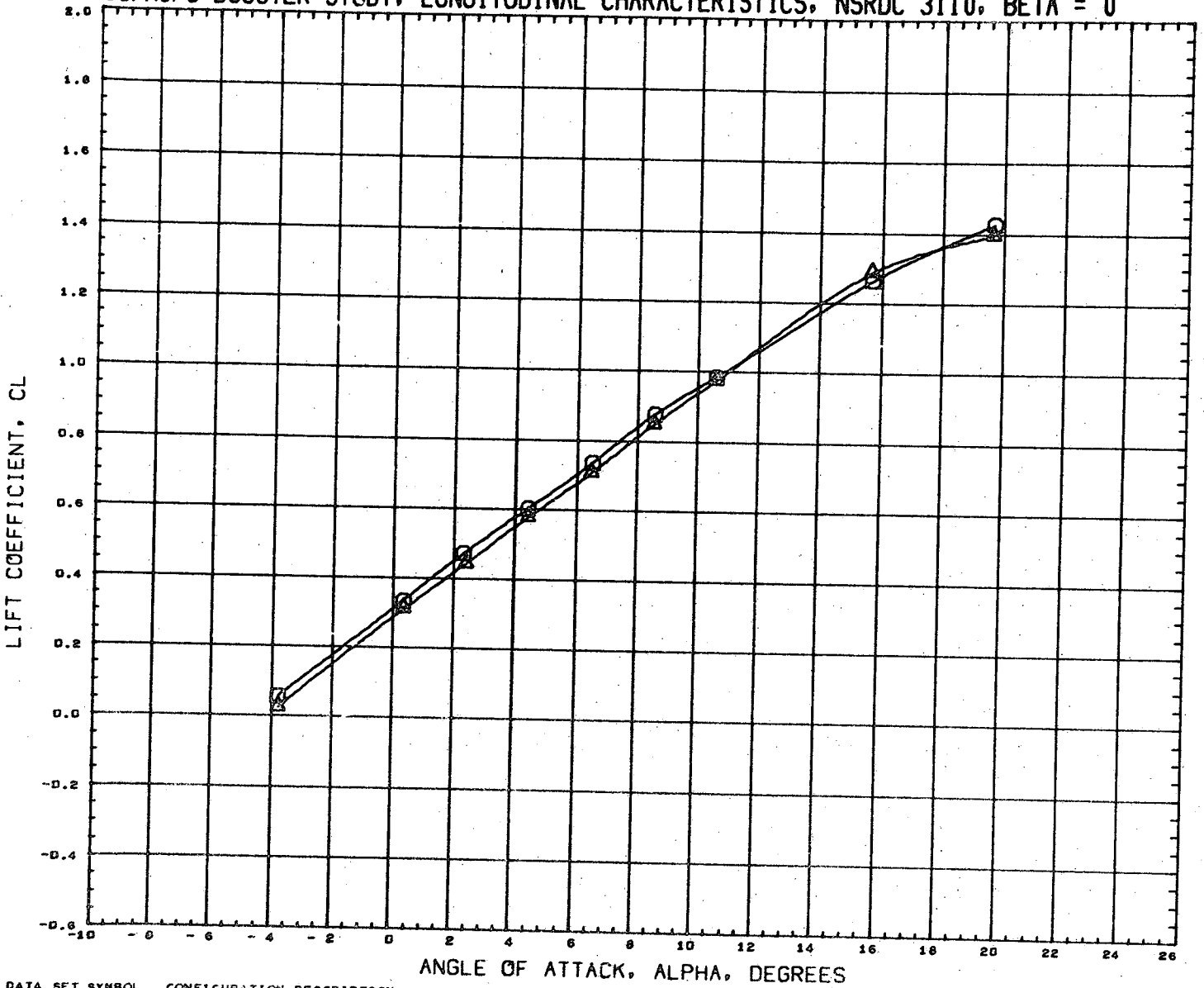
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN21D1)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN21G5)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.361

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2101) 
 (RN2165) 

CONFIGURATION DESCRIPTION
 NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
 NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

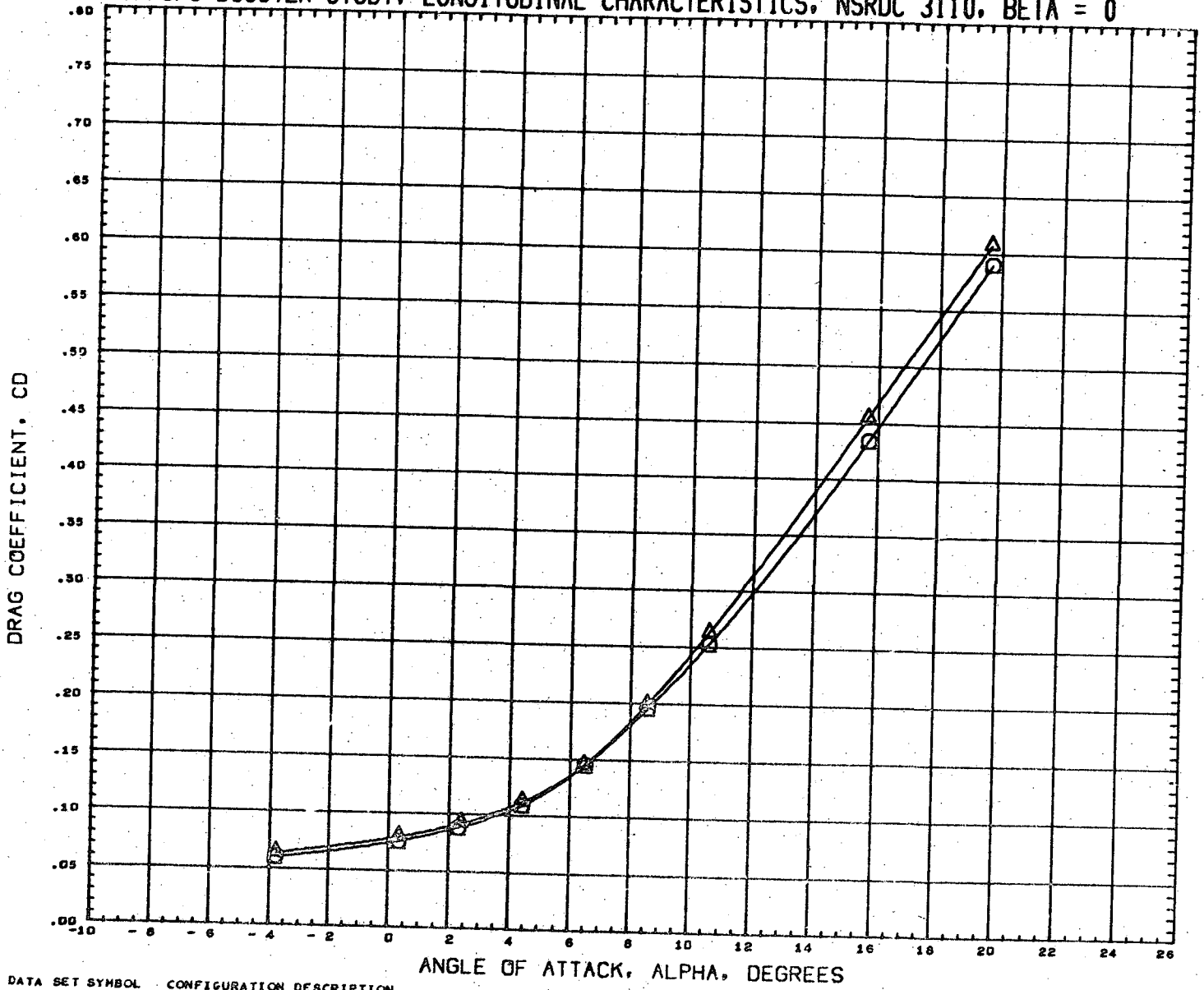
REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

6A

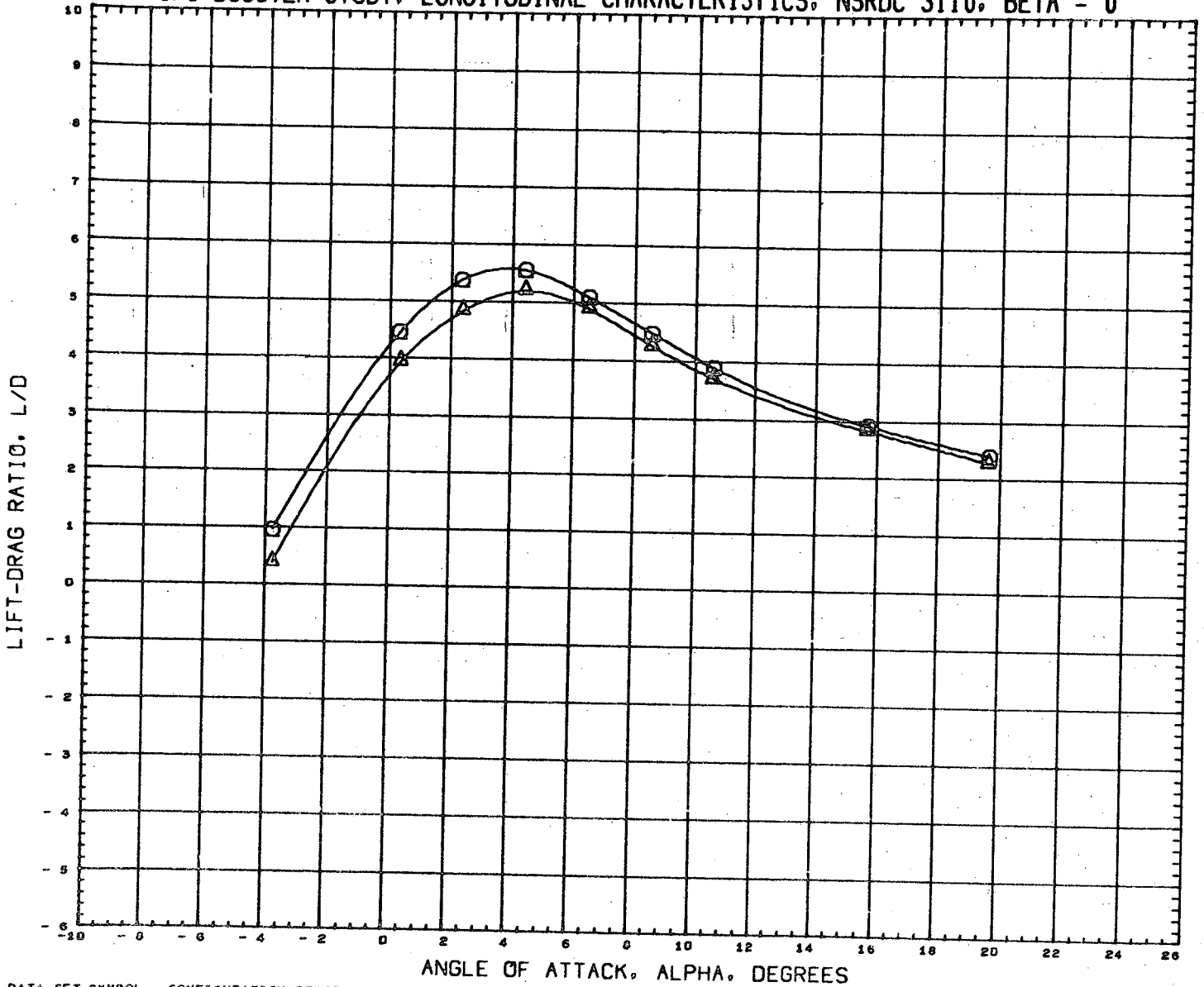
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2101)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2165)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.361

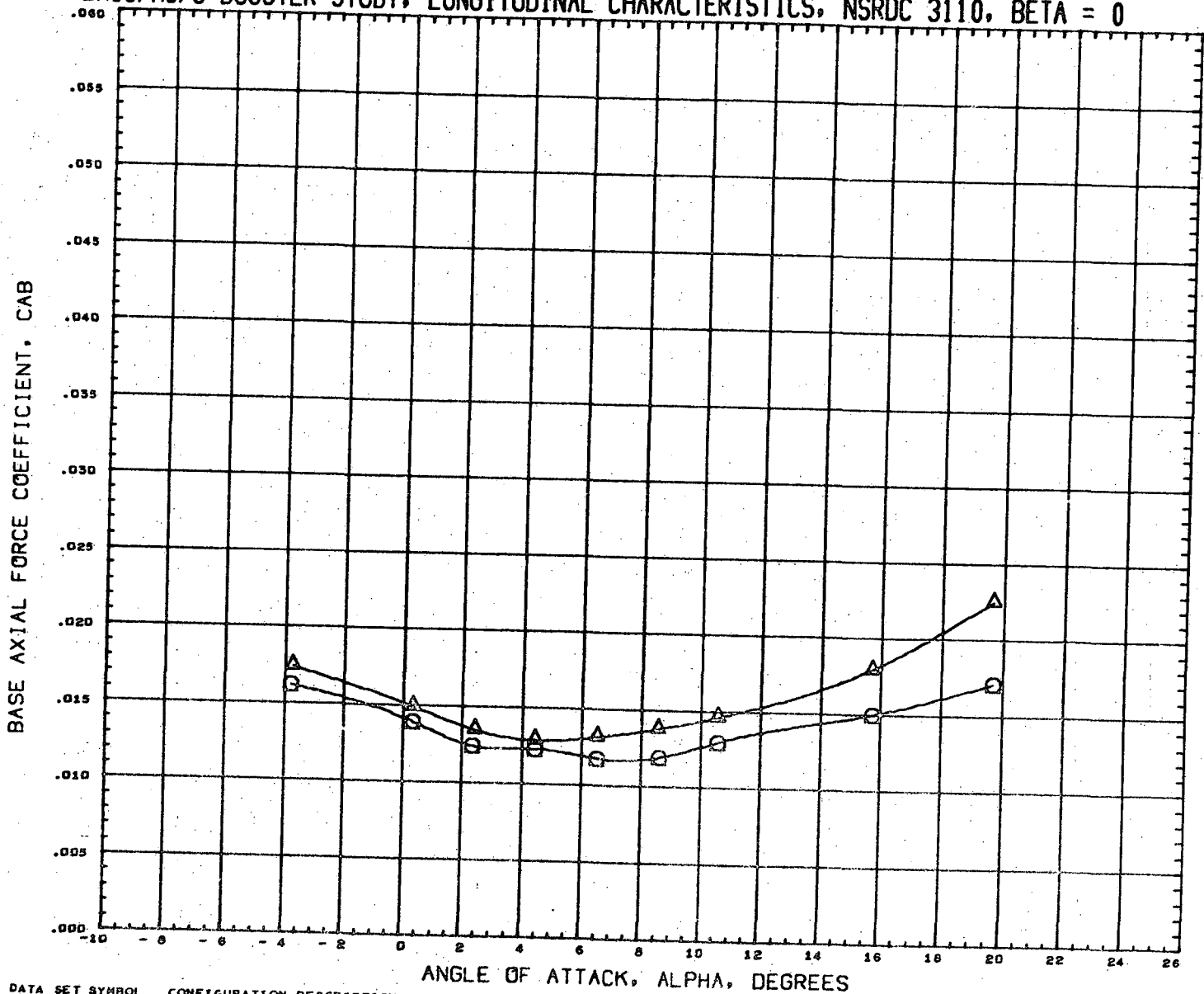
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2101)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2165)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XM RP 31.1400 INCHES
						YM RP 0.0000 INCHES
						ZM RP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2101)
(RN2165)

Q
A

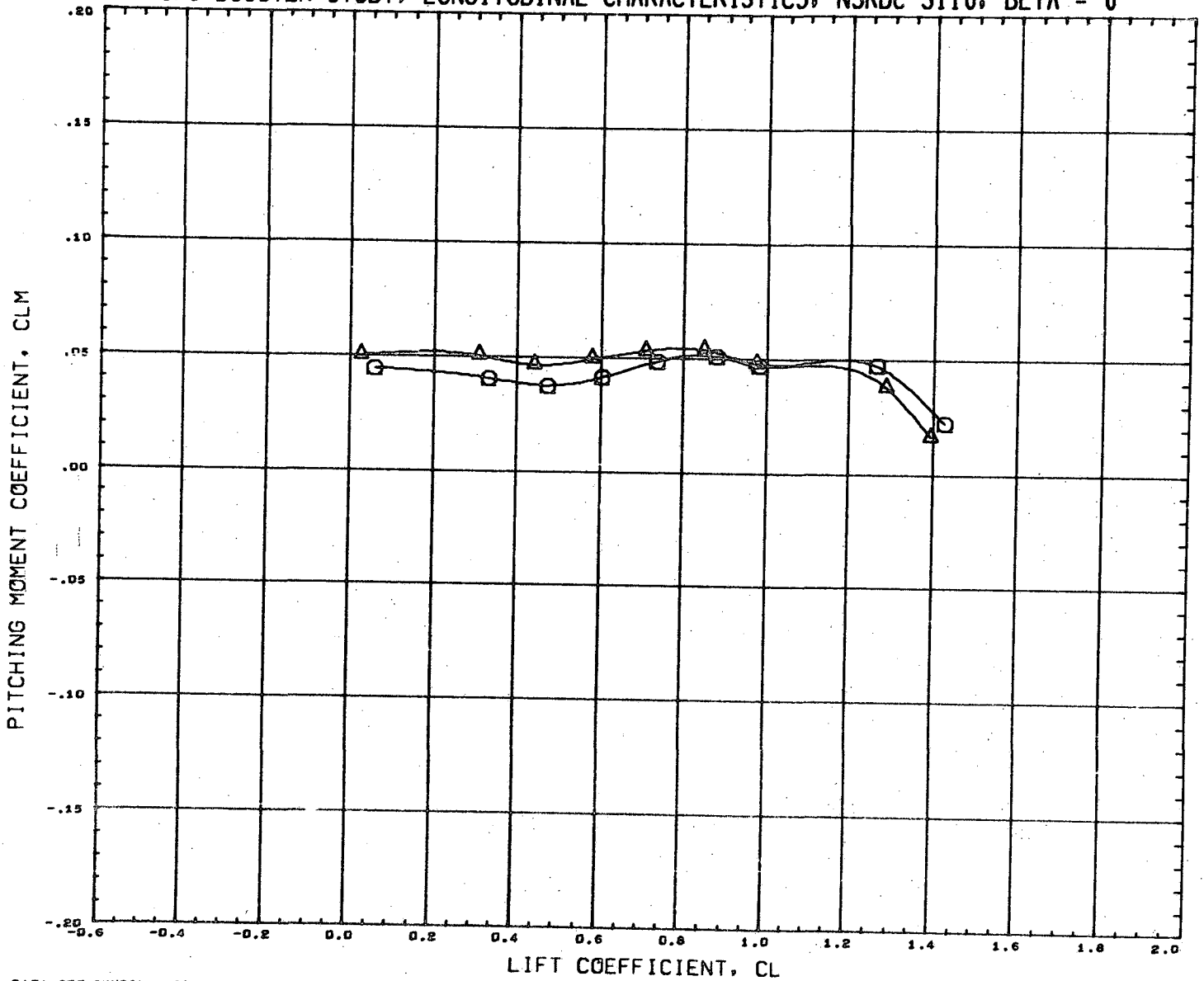
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XHRP	31.1400 INCHES
YHRP	0.0000 INCHES
ZHRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.301

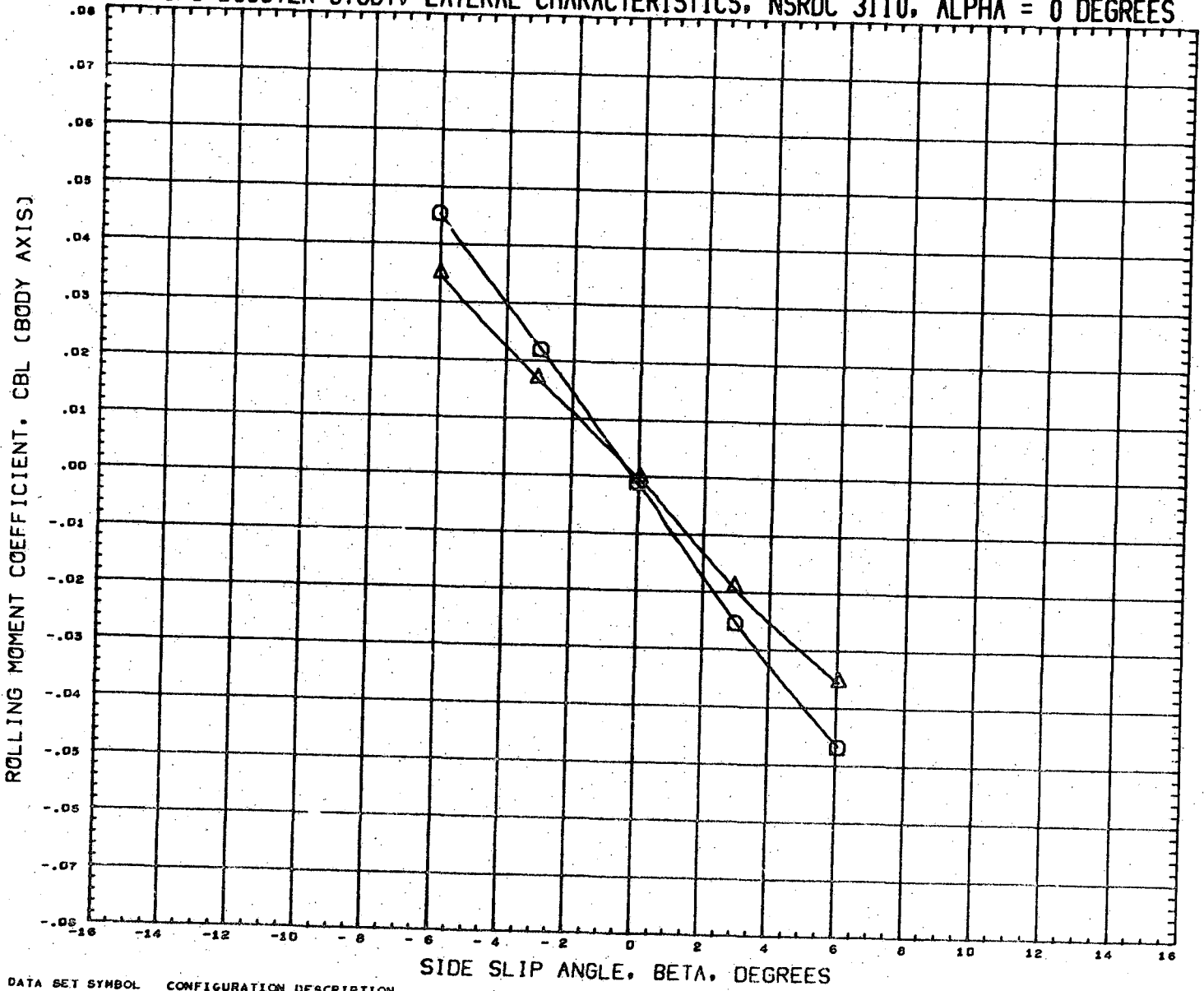
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2101)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2165)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

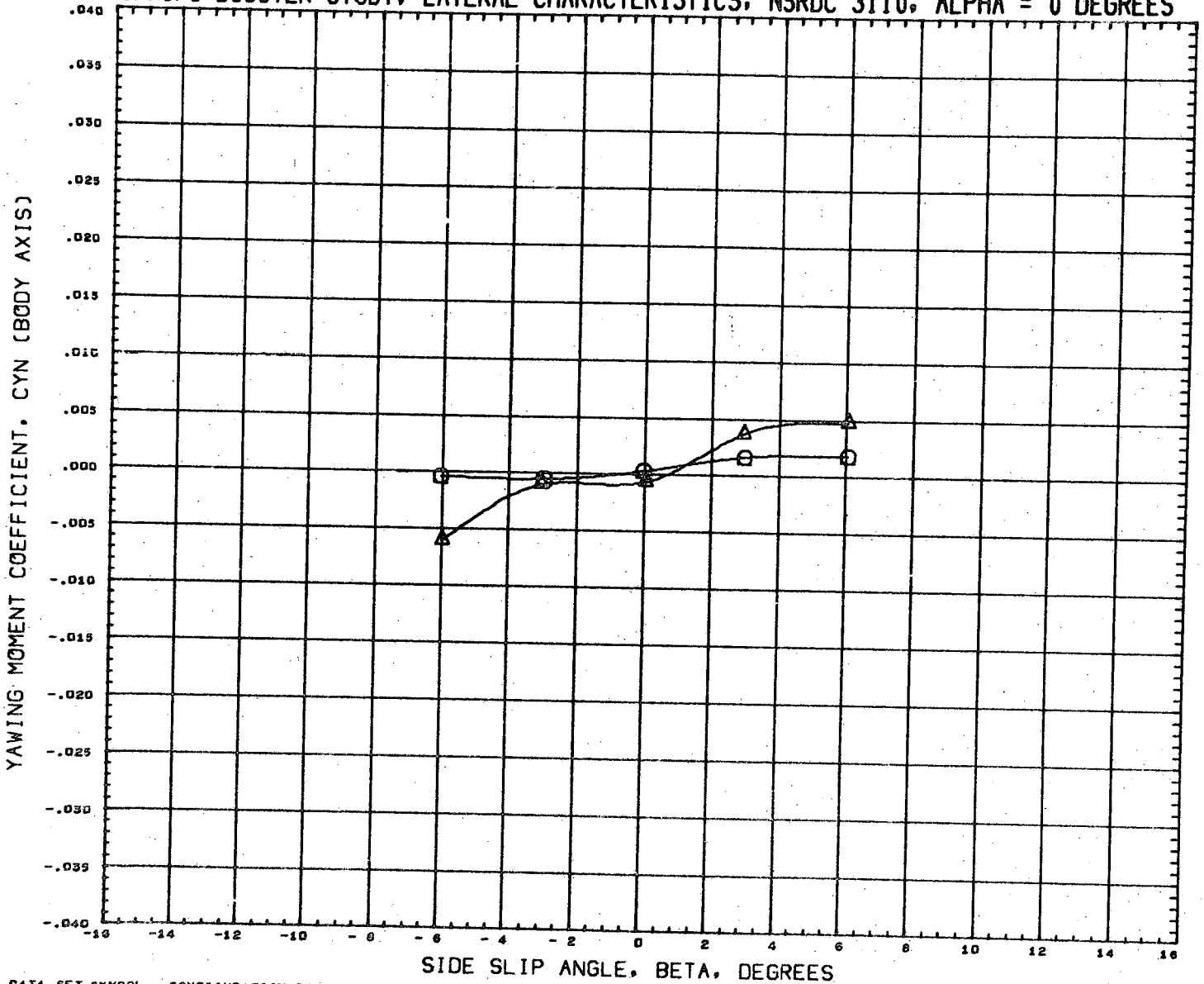
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2102)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2166)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

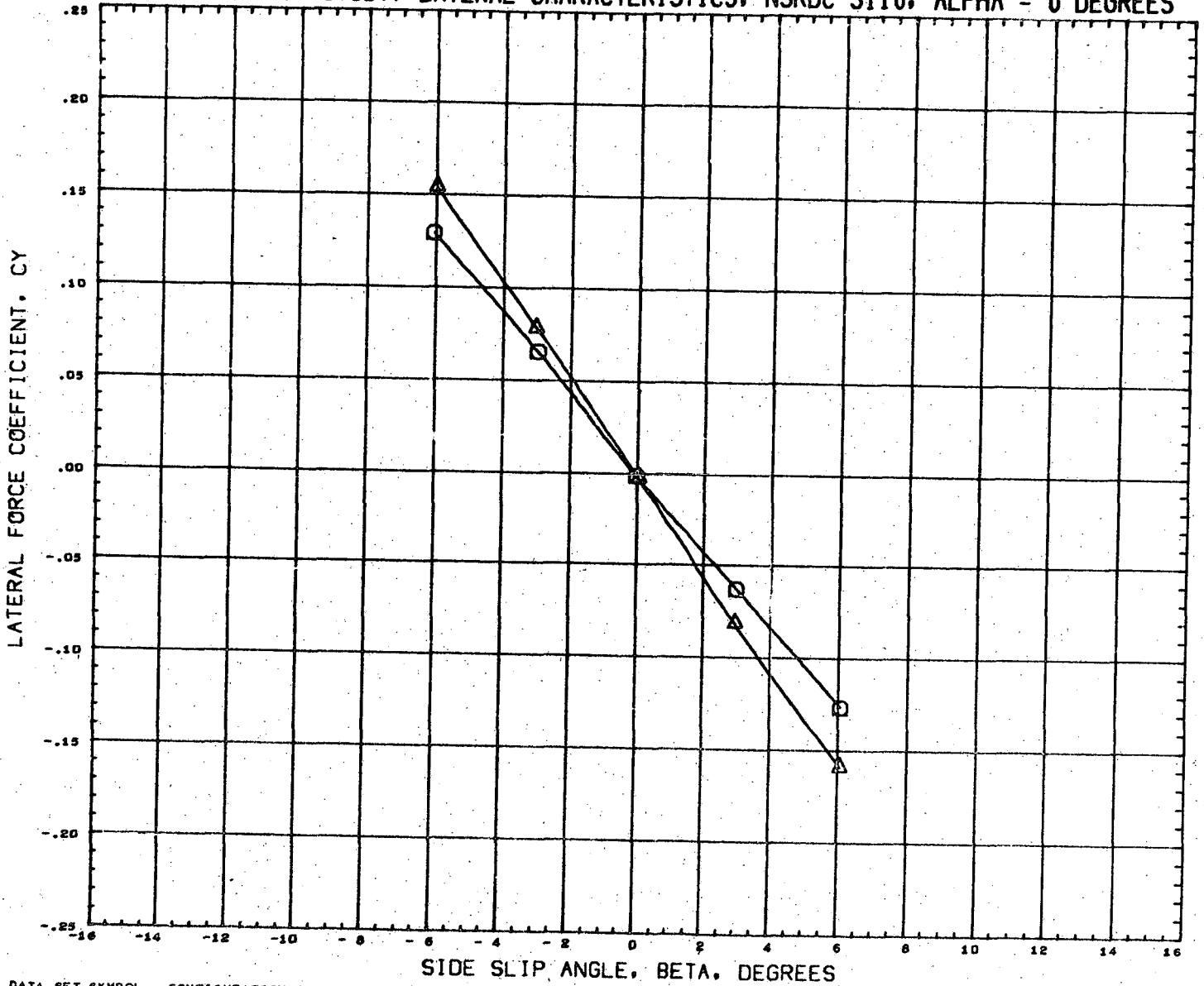
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2102)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2166)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2102) \square
(RN2166) \triangle

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

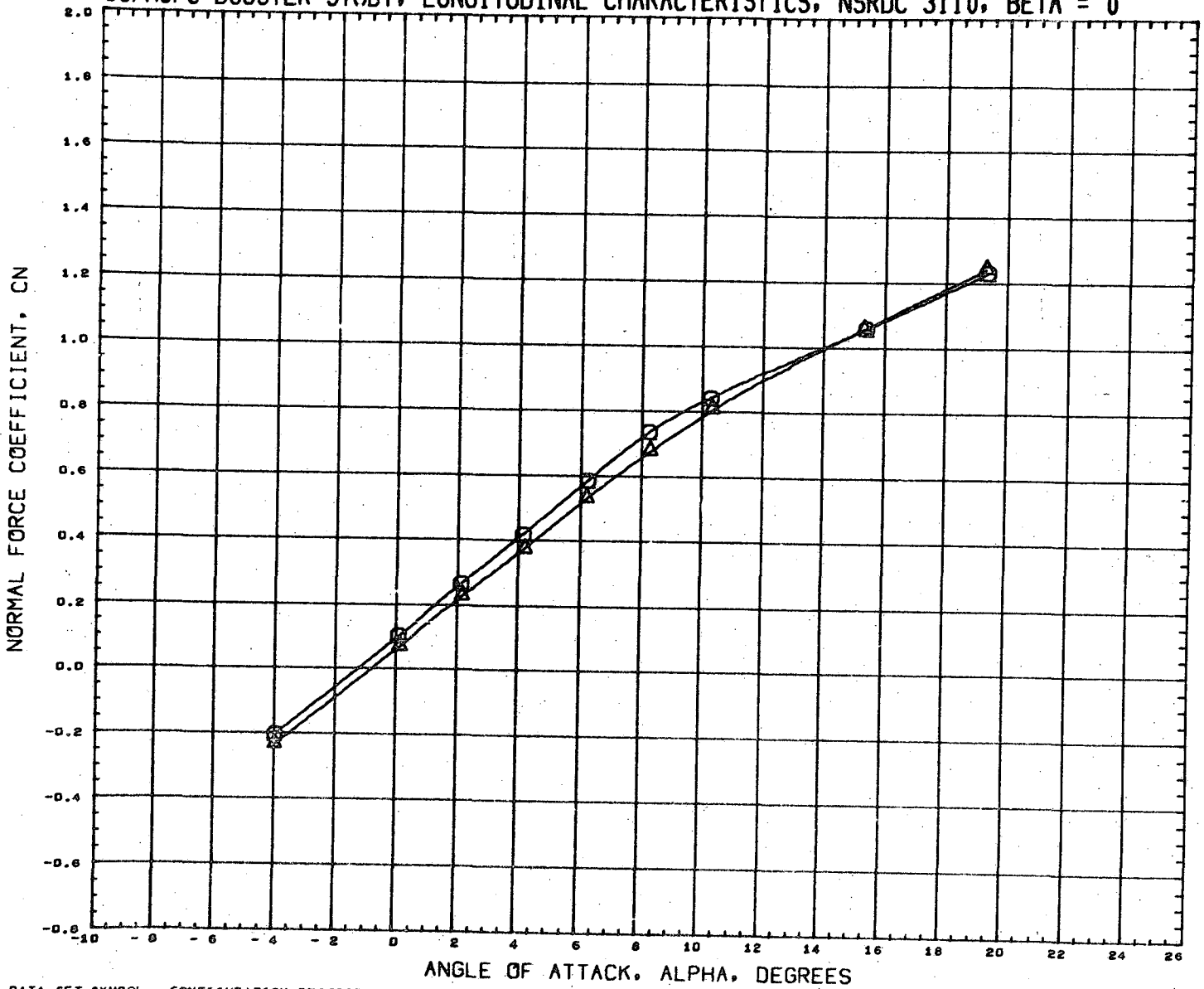
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

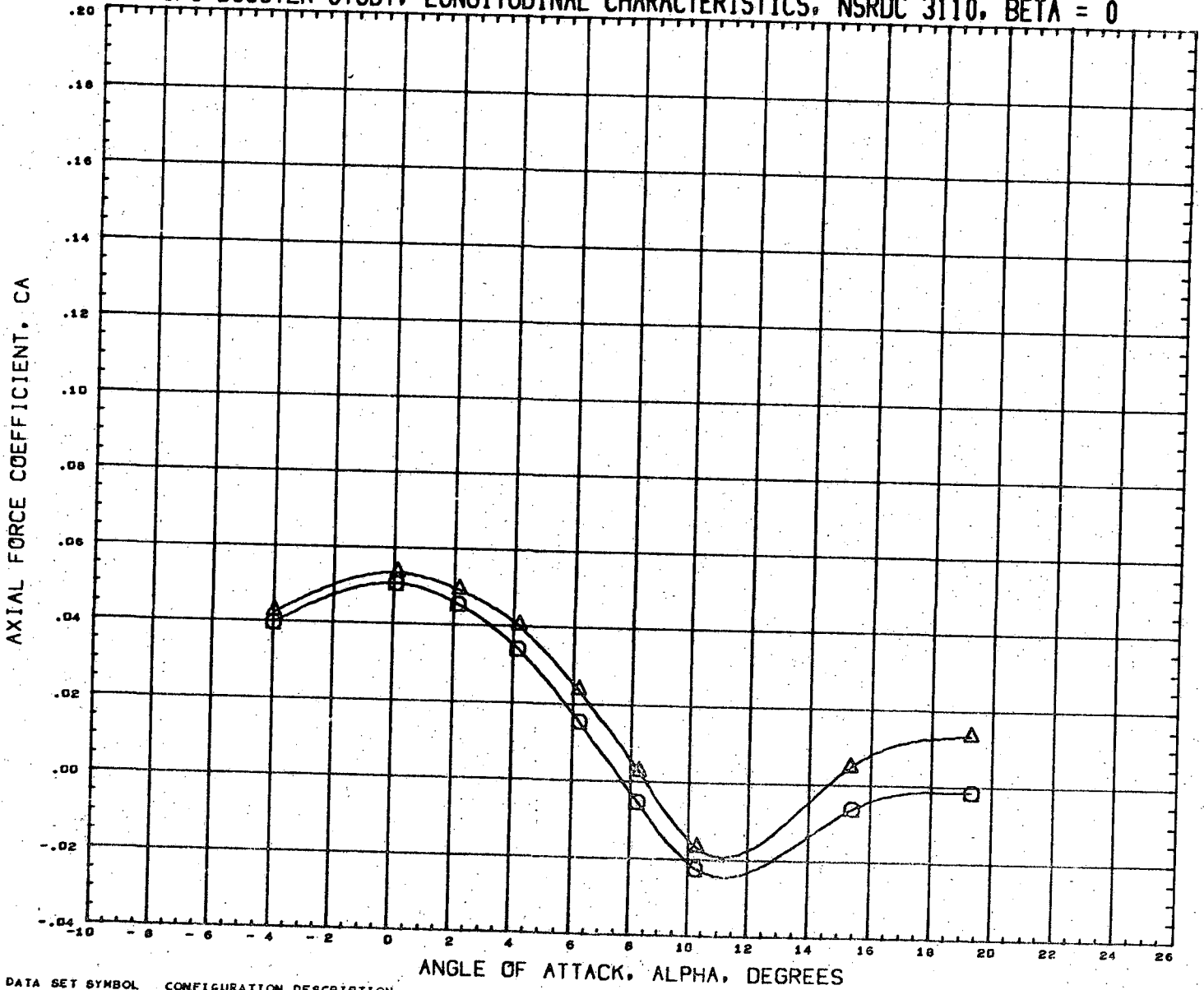
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2073)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3553 SQ.FT.
(RN2157)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2073)
(RN2137)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

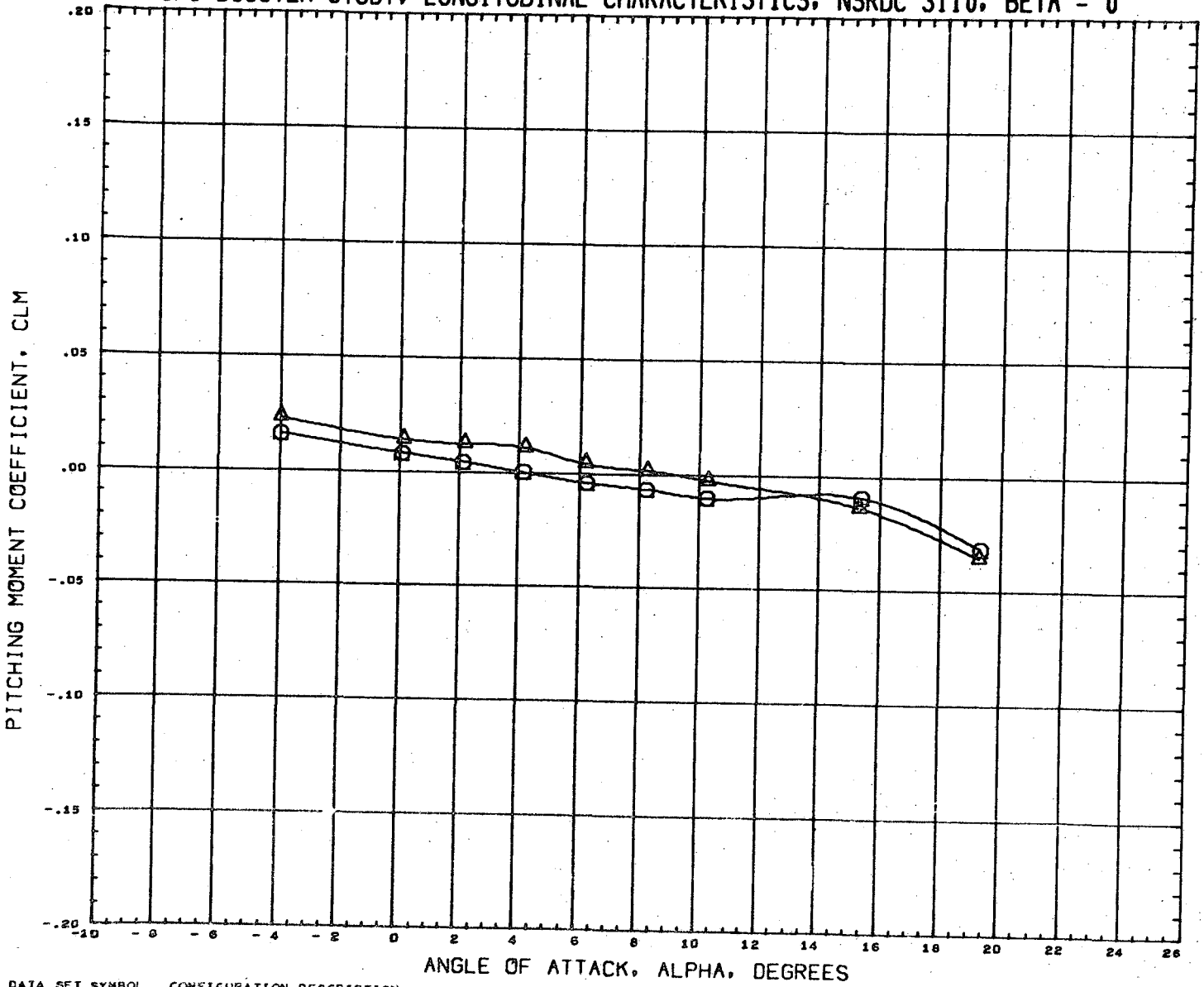
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.301

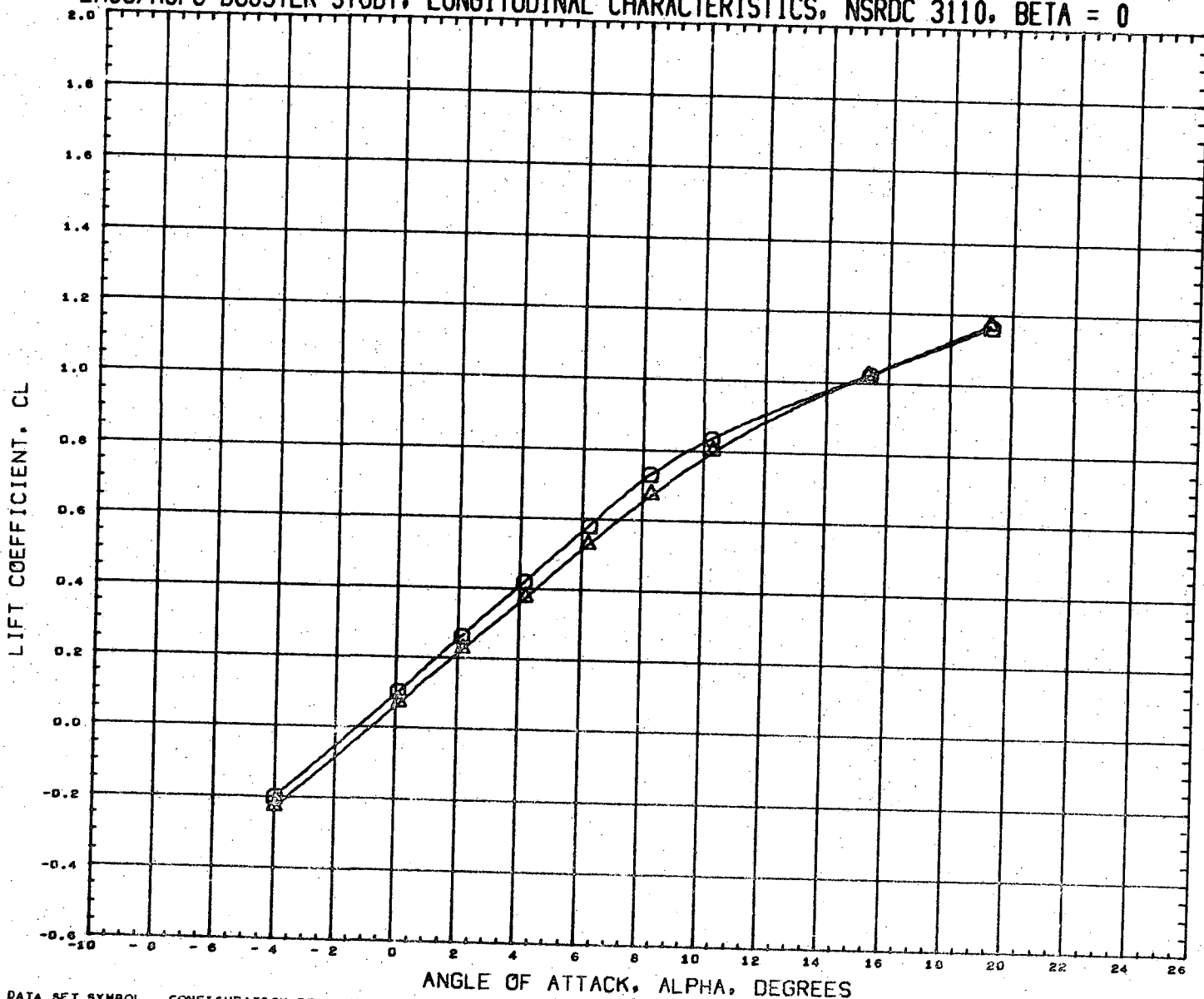
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2073)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2137)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						YMRP 31.1400 INCHES
						ZMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2073) □
(RN2137) △

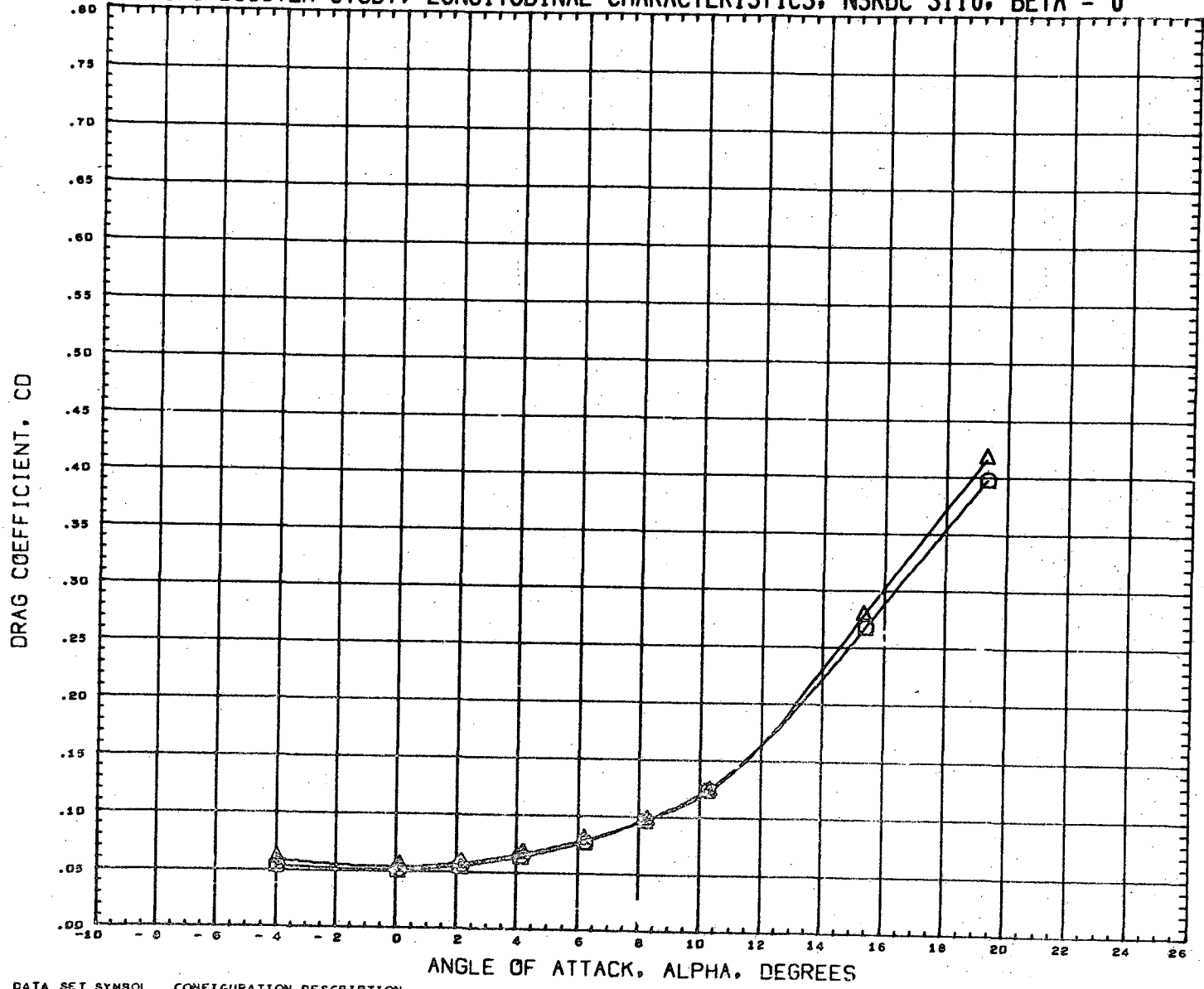
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WINGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMNP	31.1400 INCHES
YMNP	0.0000 INCHES
ZMNP	0.2250 INCHES
SCALE	1.5000 PERCENT

HACH 0.581

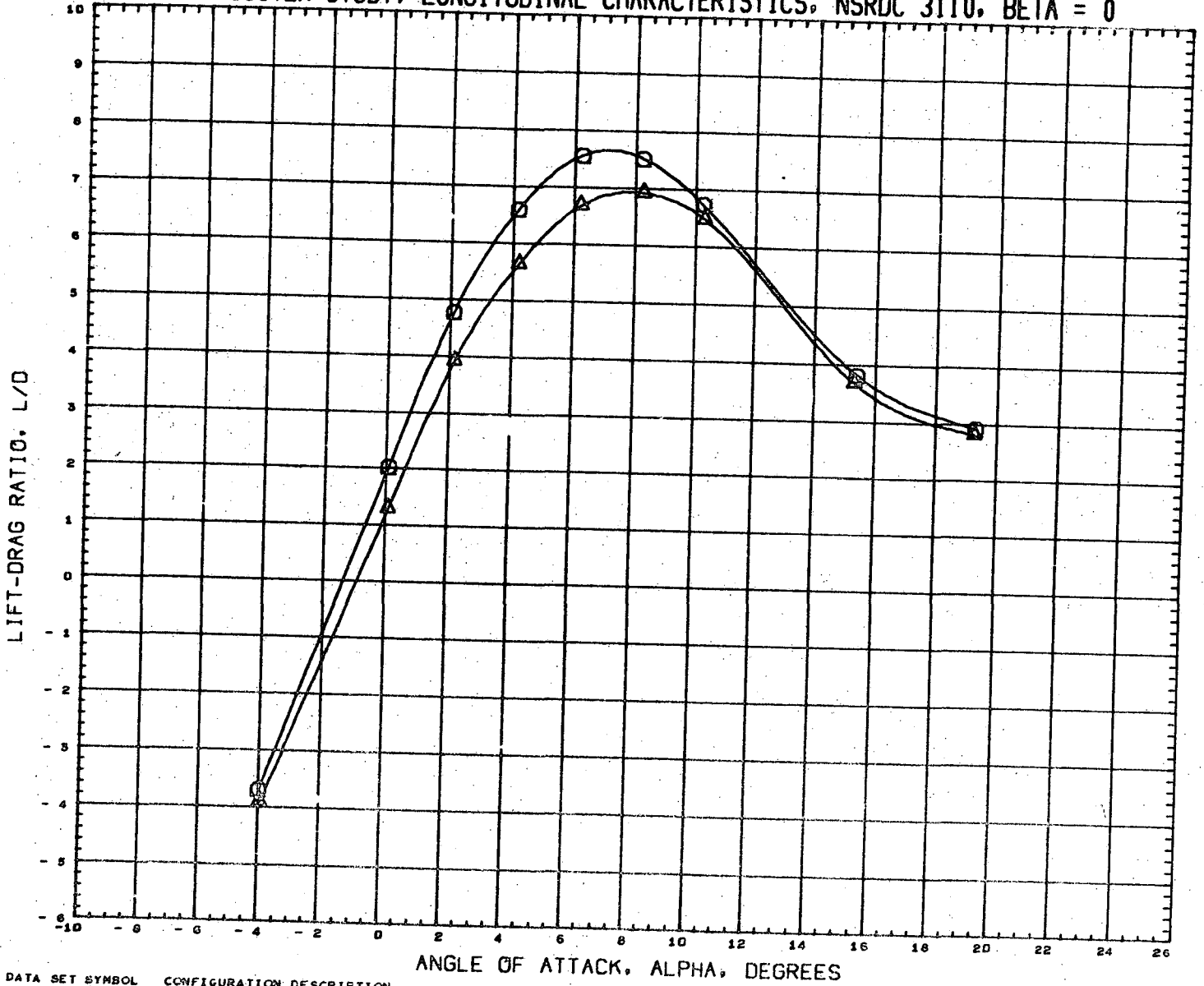
LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2073)	NSRDC-3110, MSFC/LMSC BOOSTER 81C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2137)	NSRDC-3110, MSFC/LMSC BOOSTER 31C1F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.361

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



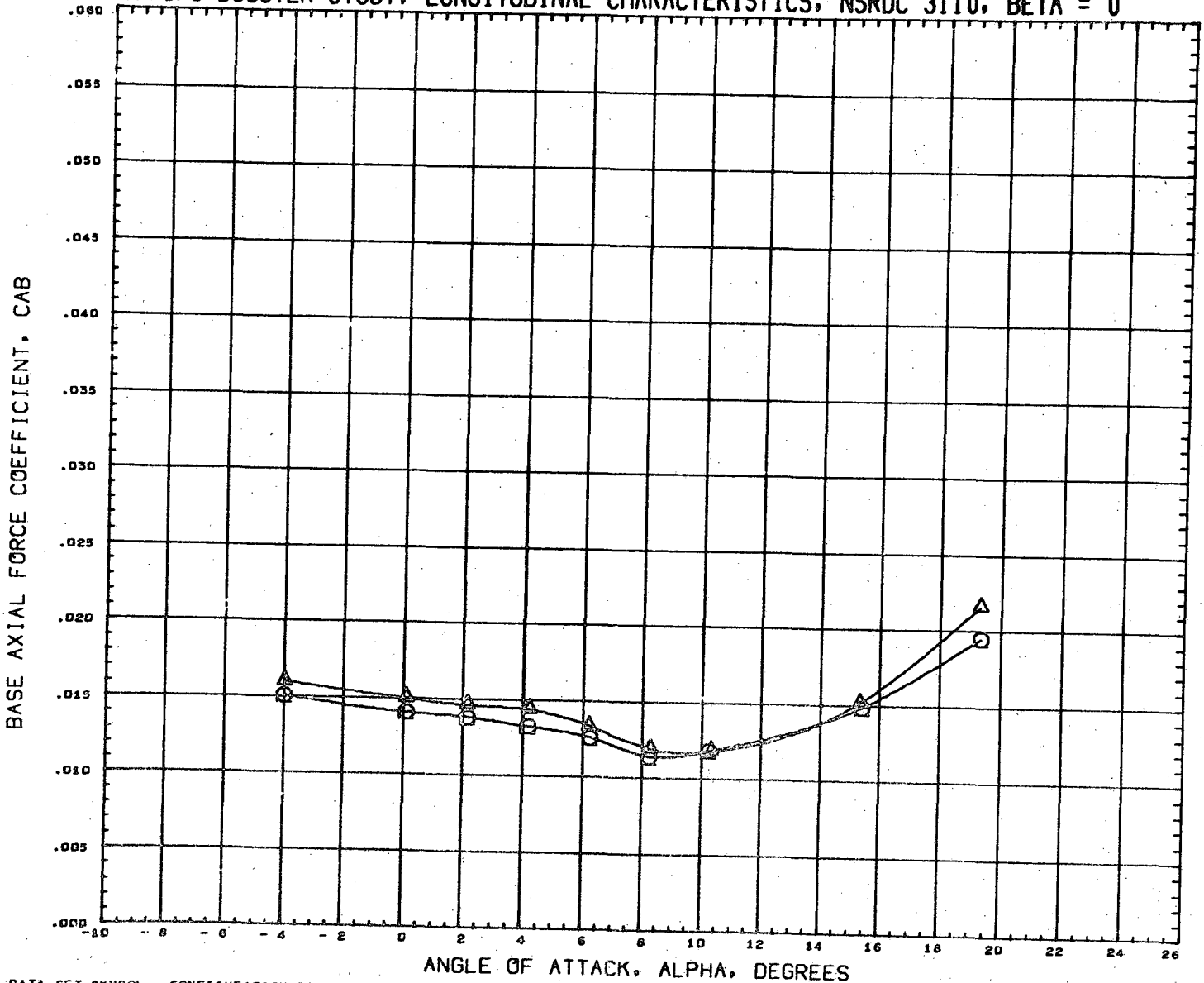
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2073)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2137)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V201

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

NACH 0.381

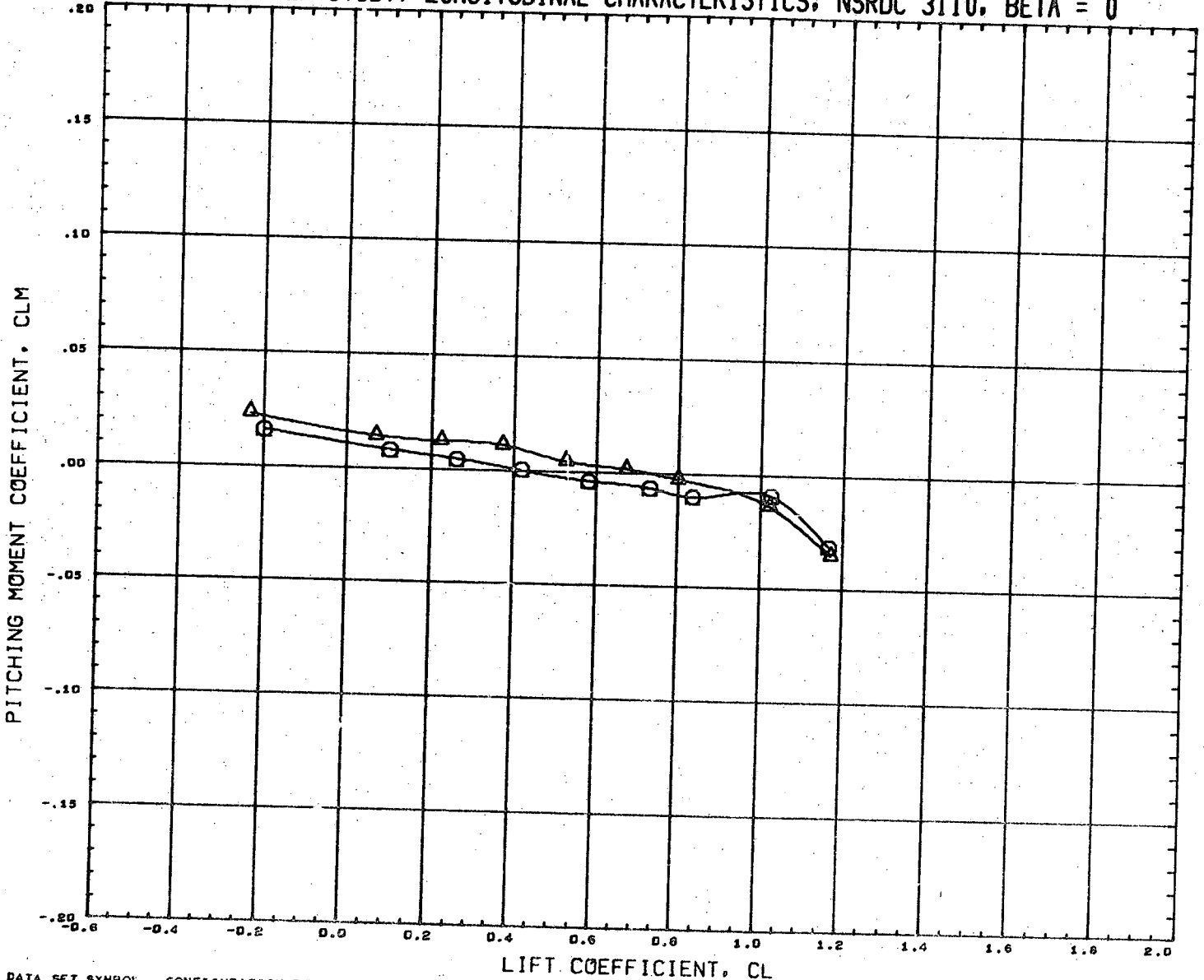
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2073)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2137)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

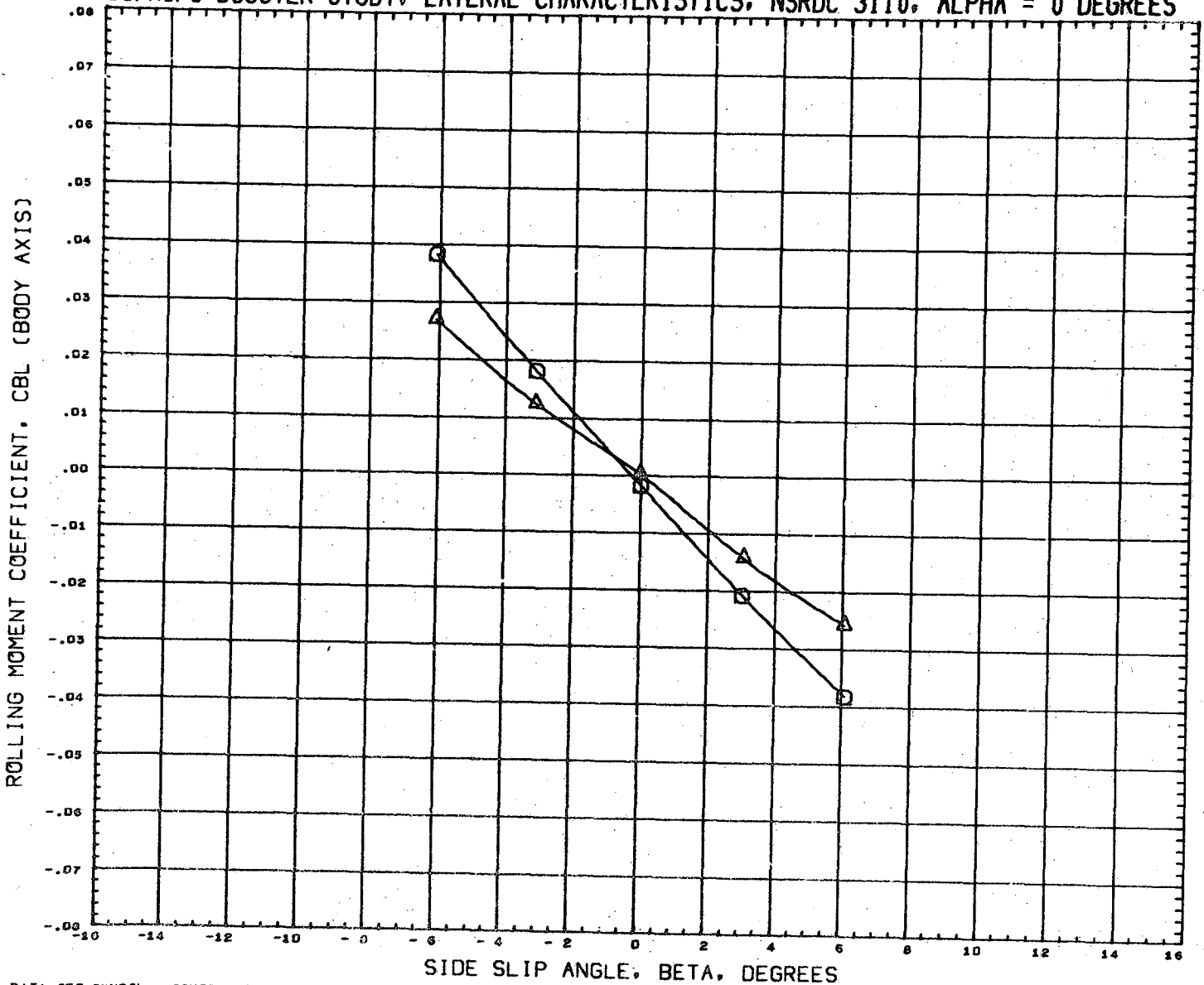
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2073)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2137)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

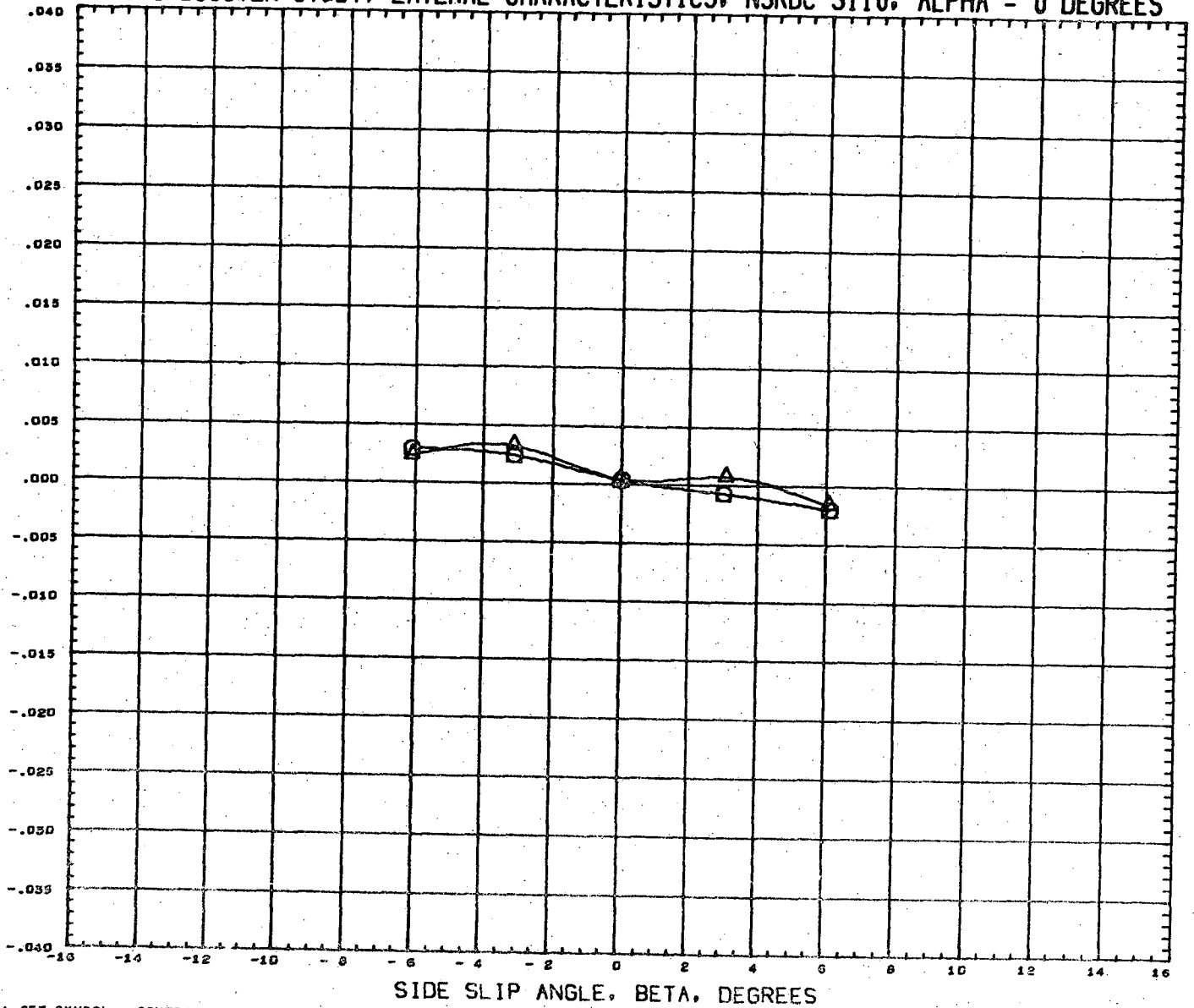


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2074)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2138)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

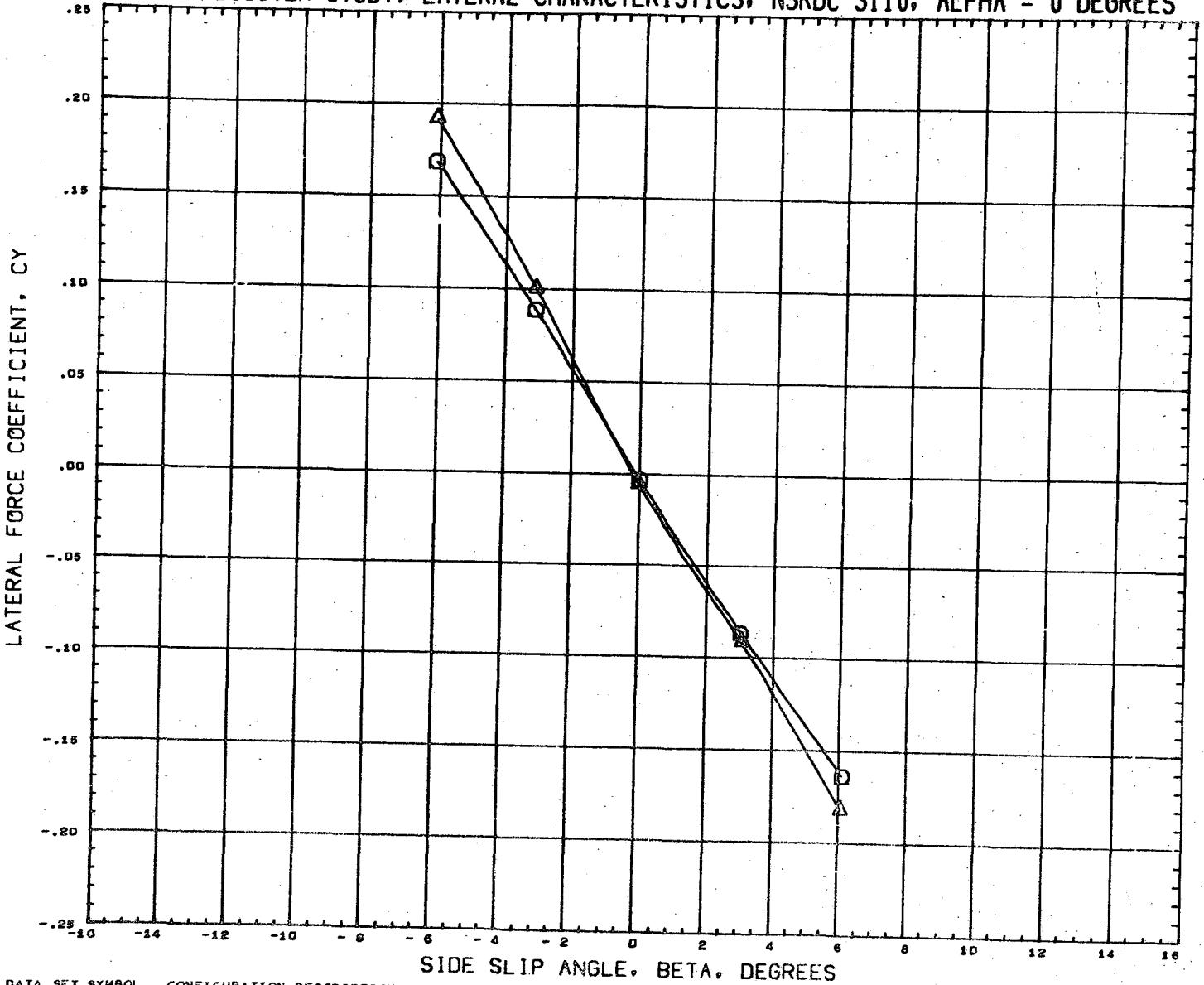


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2074)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2139)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XHRP 31.1400 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

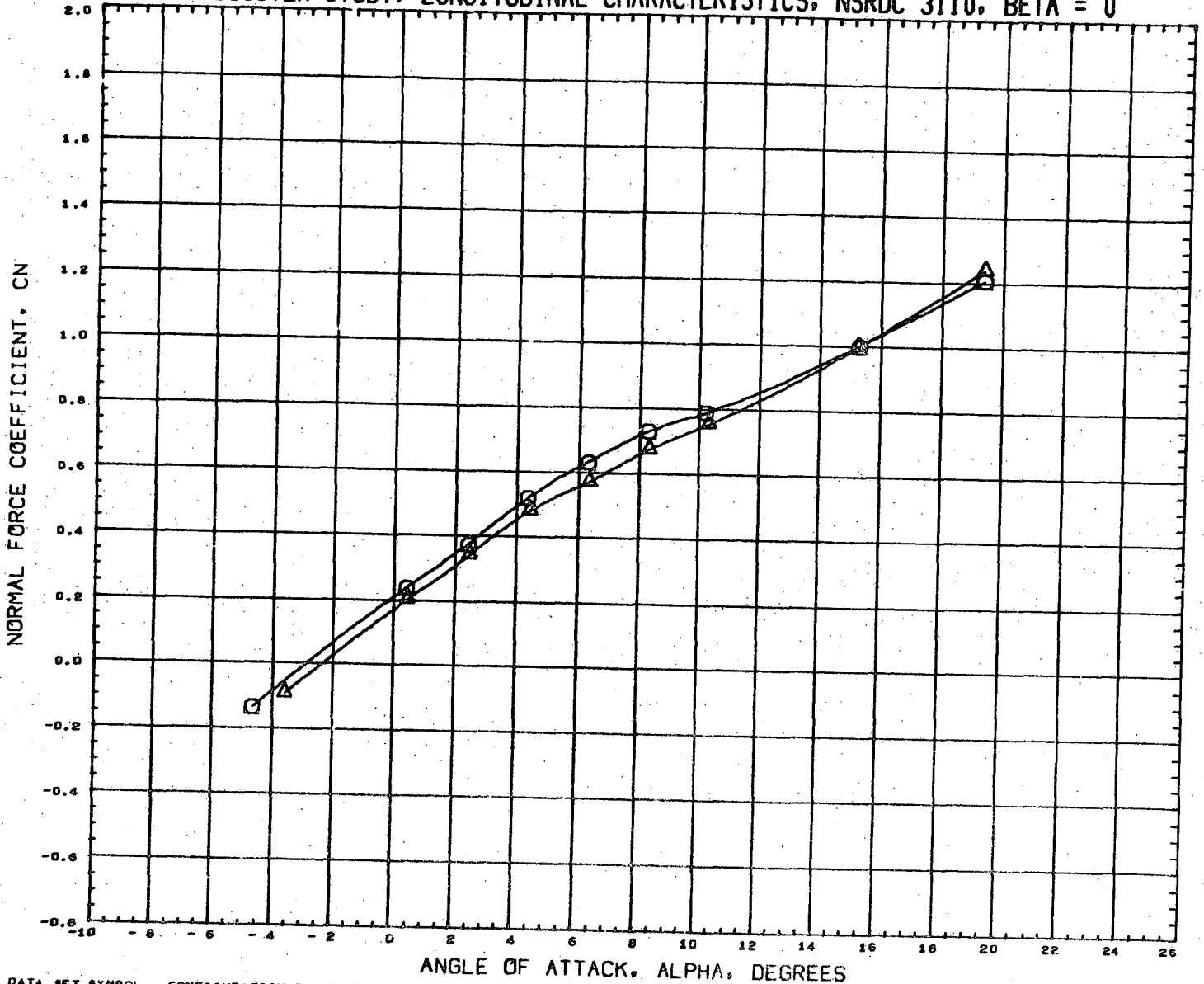
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2074)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2138)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2077) \circ
(RN2141) \triangle

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

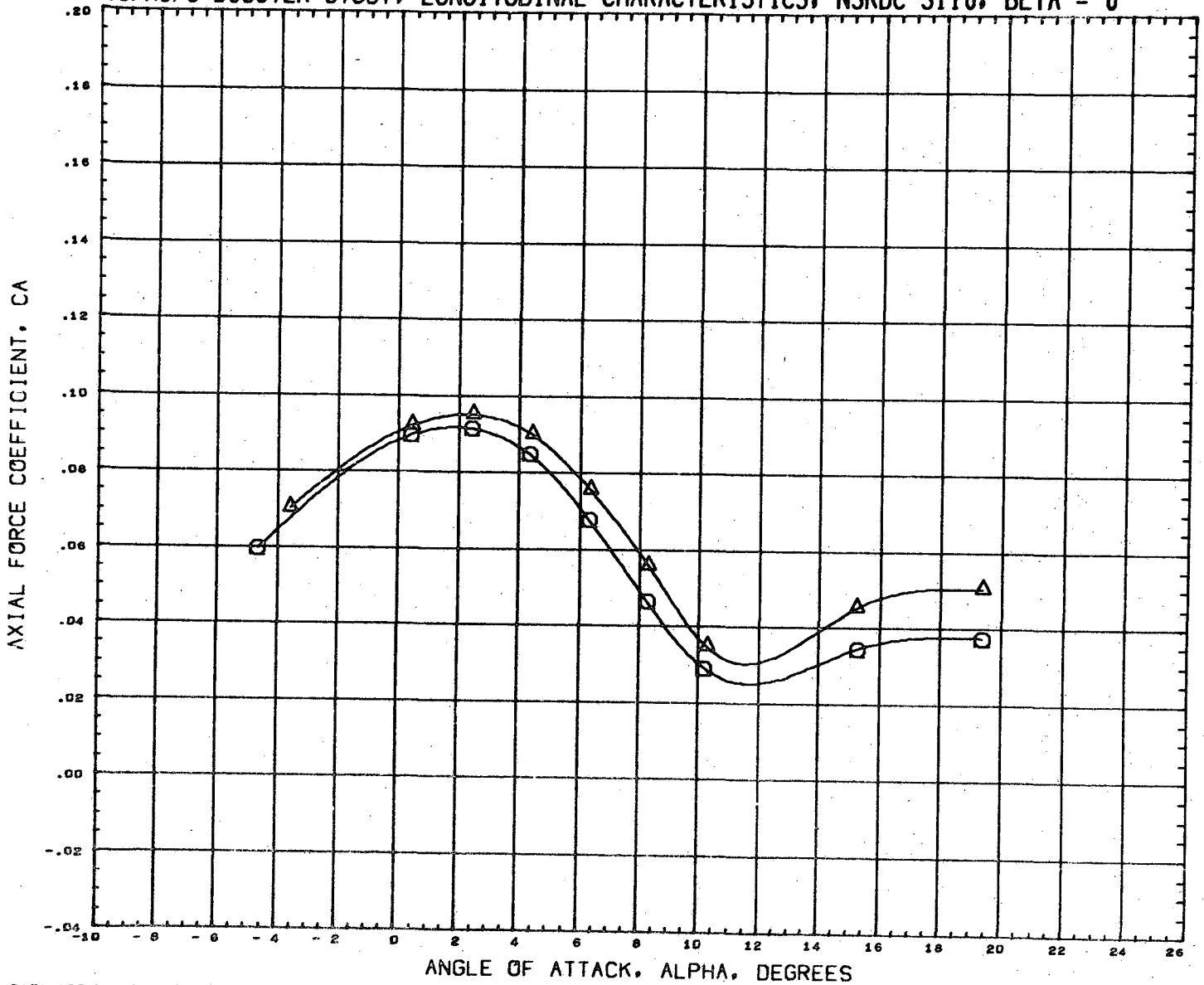
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4350	INCHES
BREF	41.4350	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

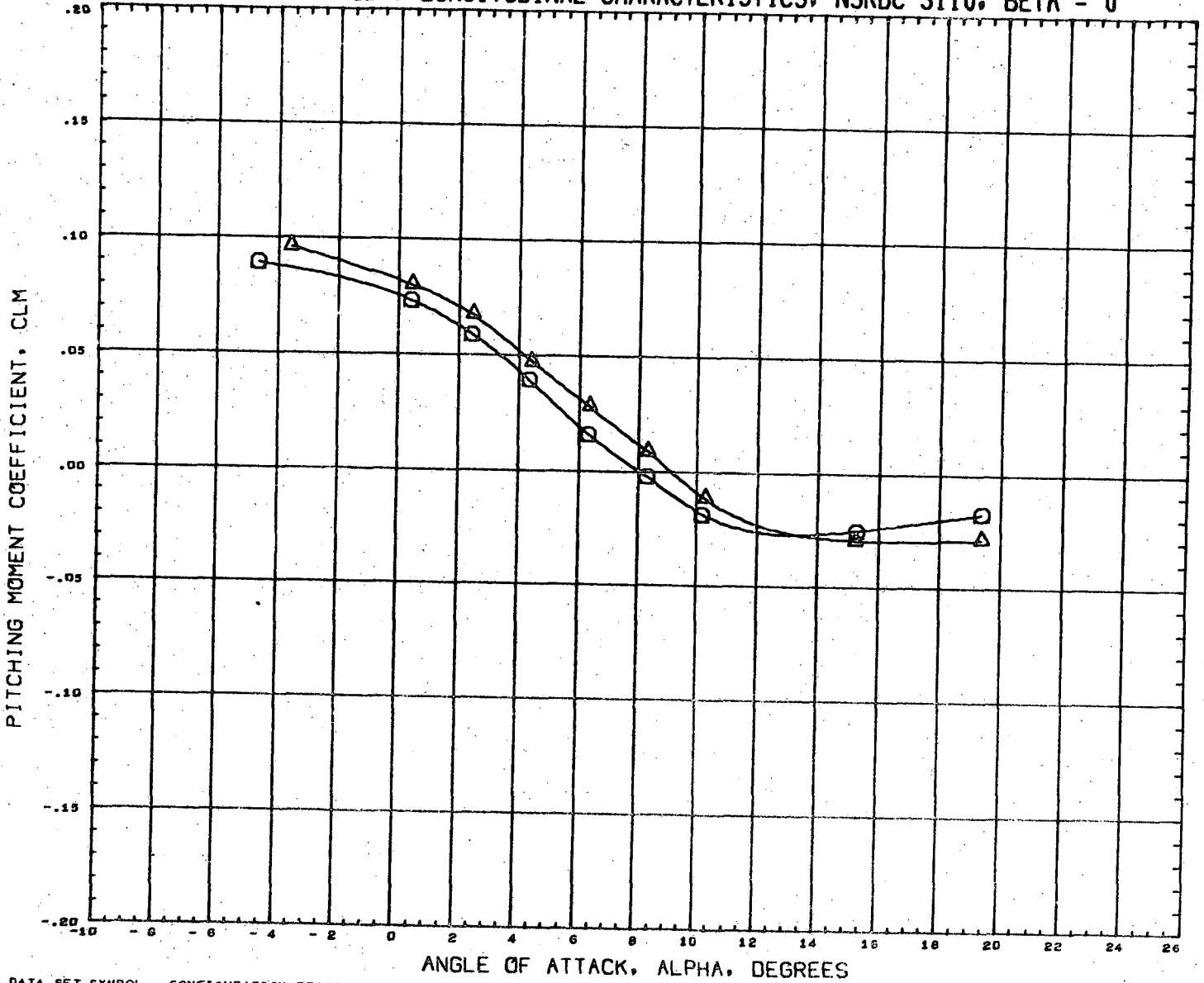
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2077)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2141)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

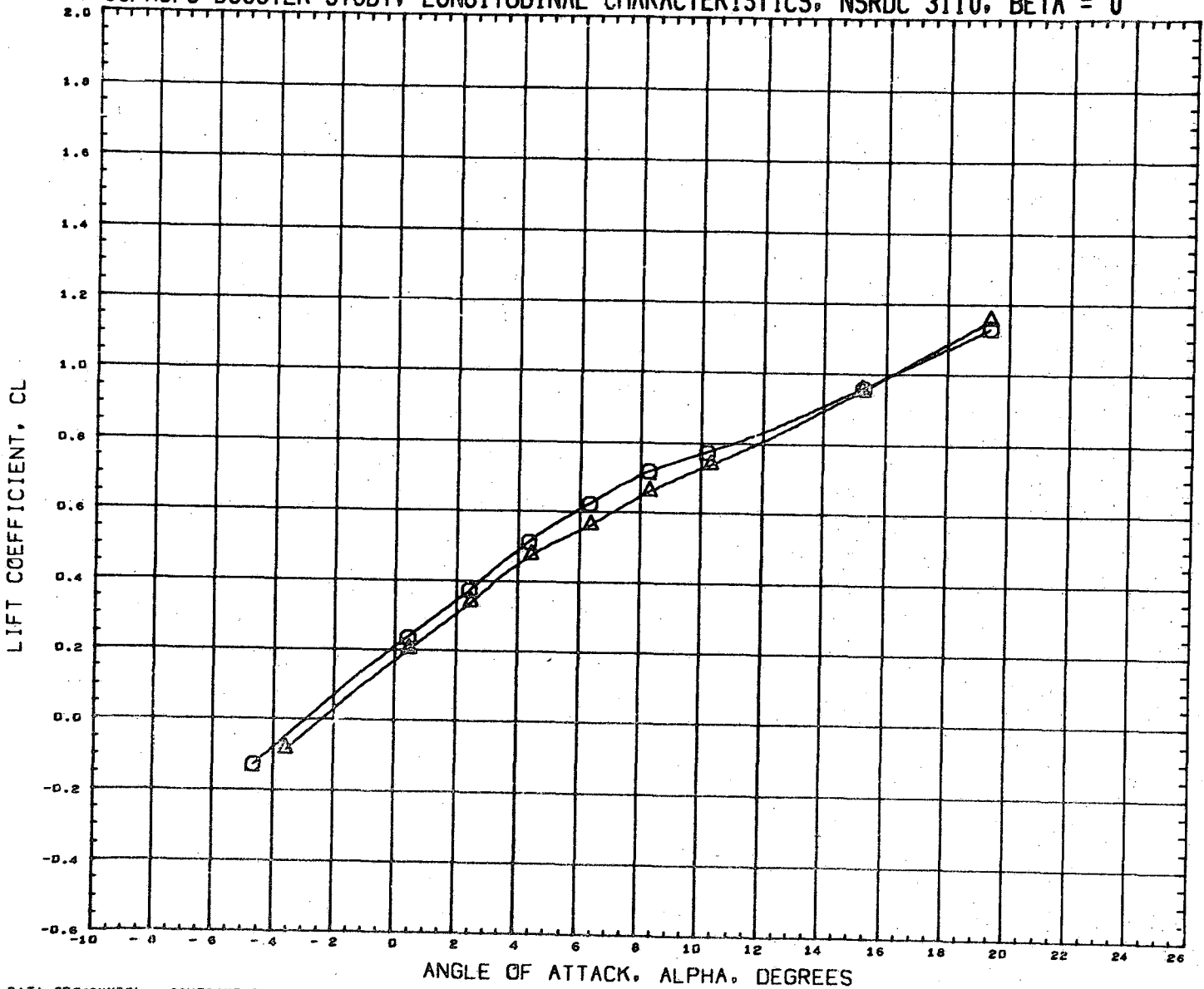
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2077)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF 1.1550 SQ.FT.
(RN2141)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

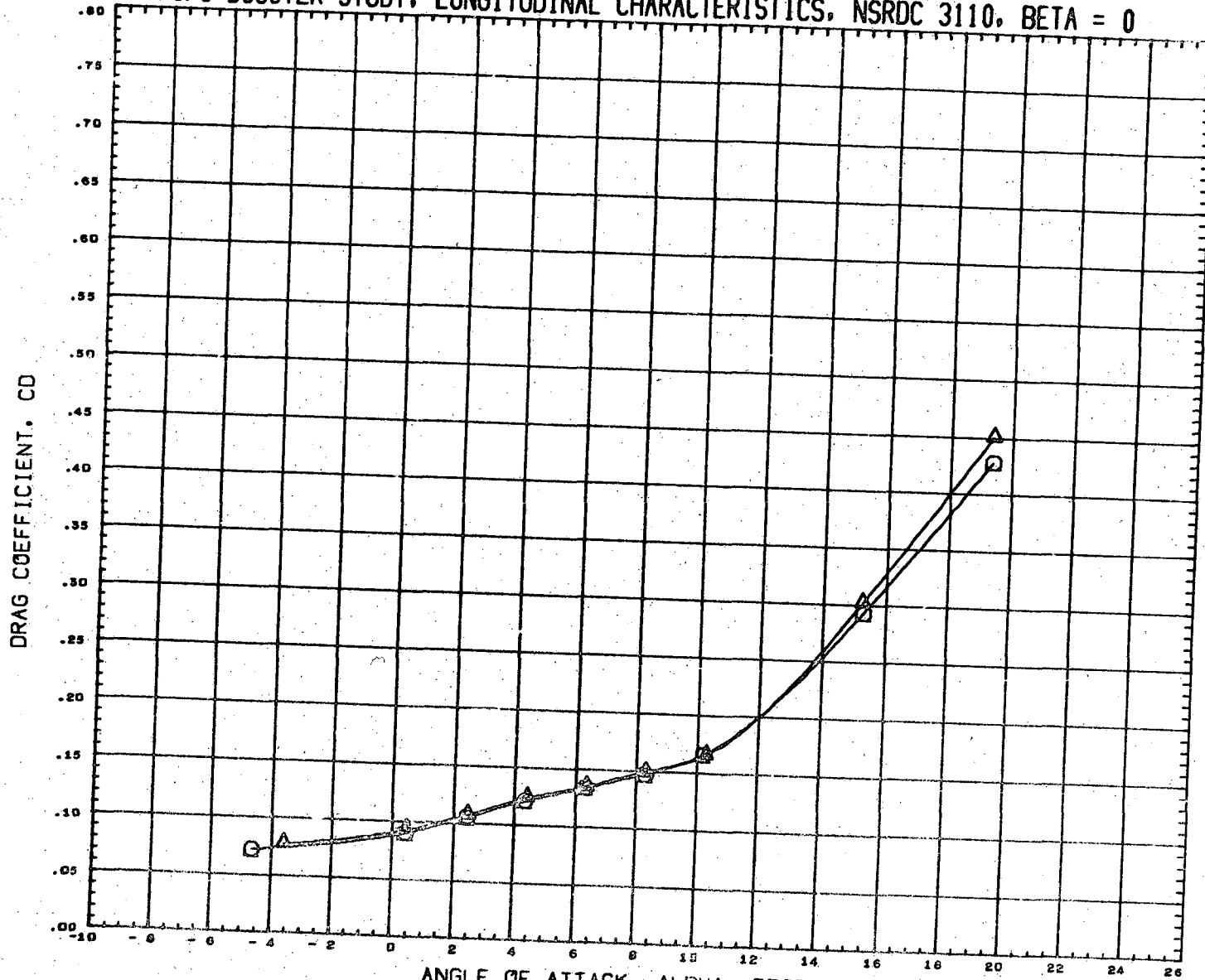
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2077)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2141)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2077)
(RN2141)



CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SG.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

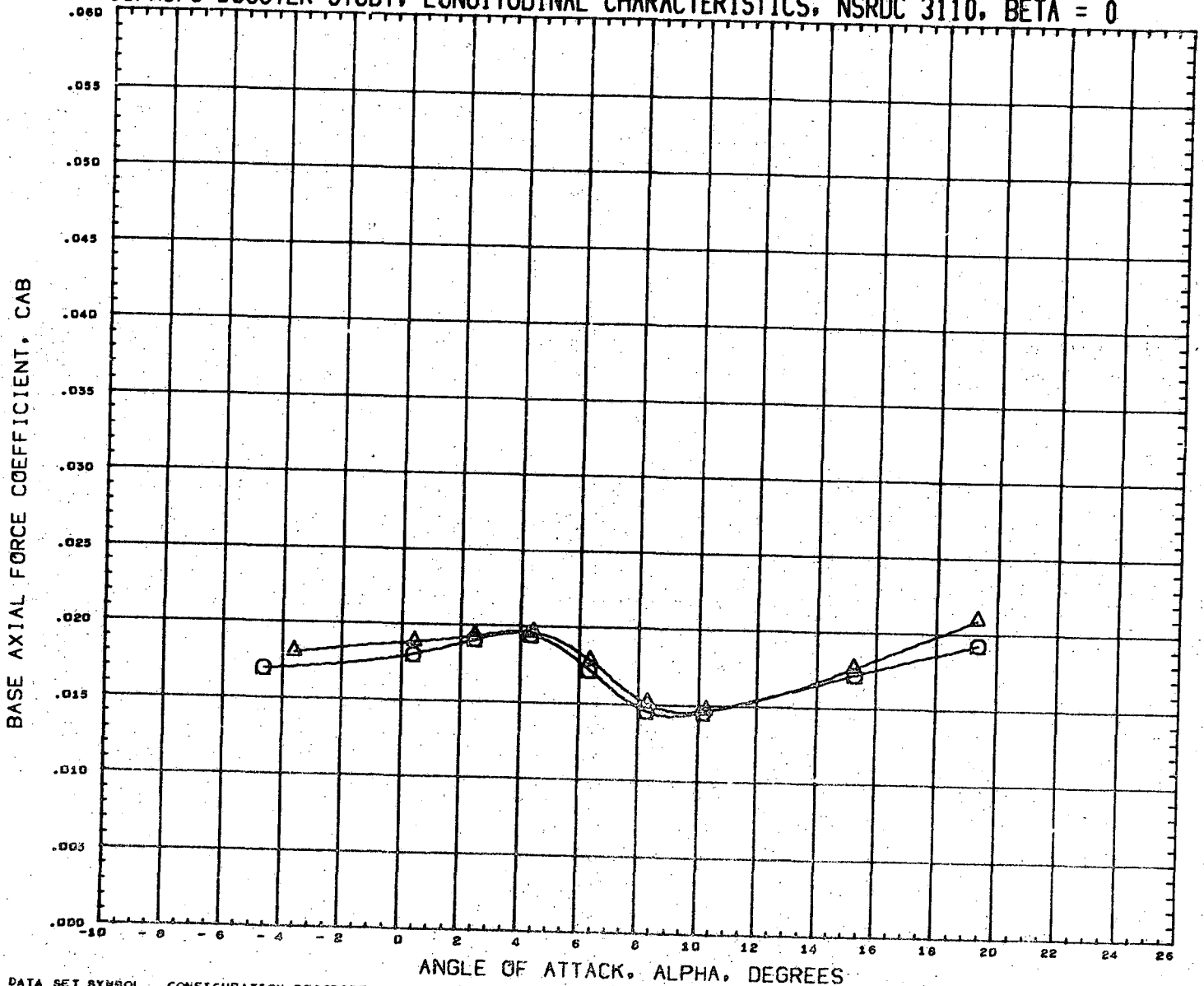
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2077)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2141)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2077)
(RN2141)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

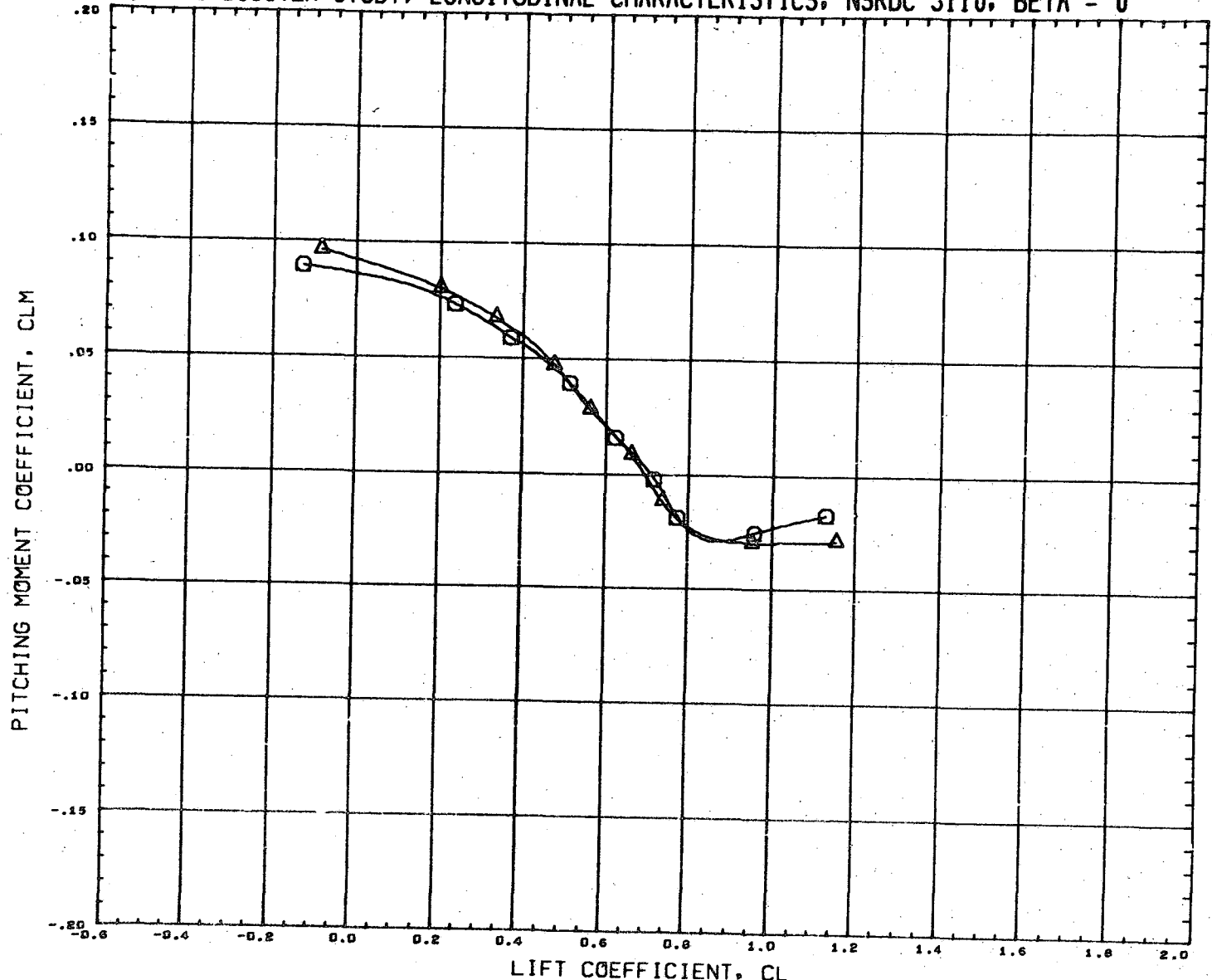
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

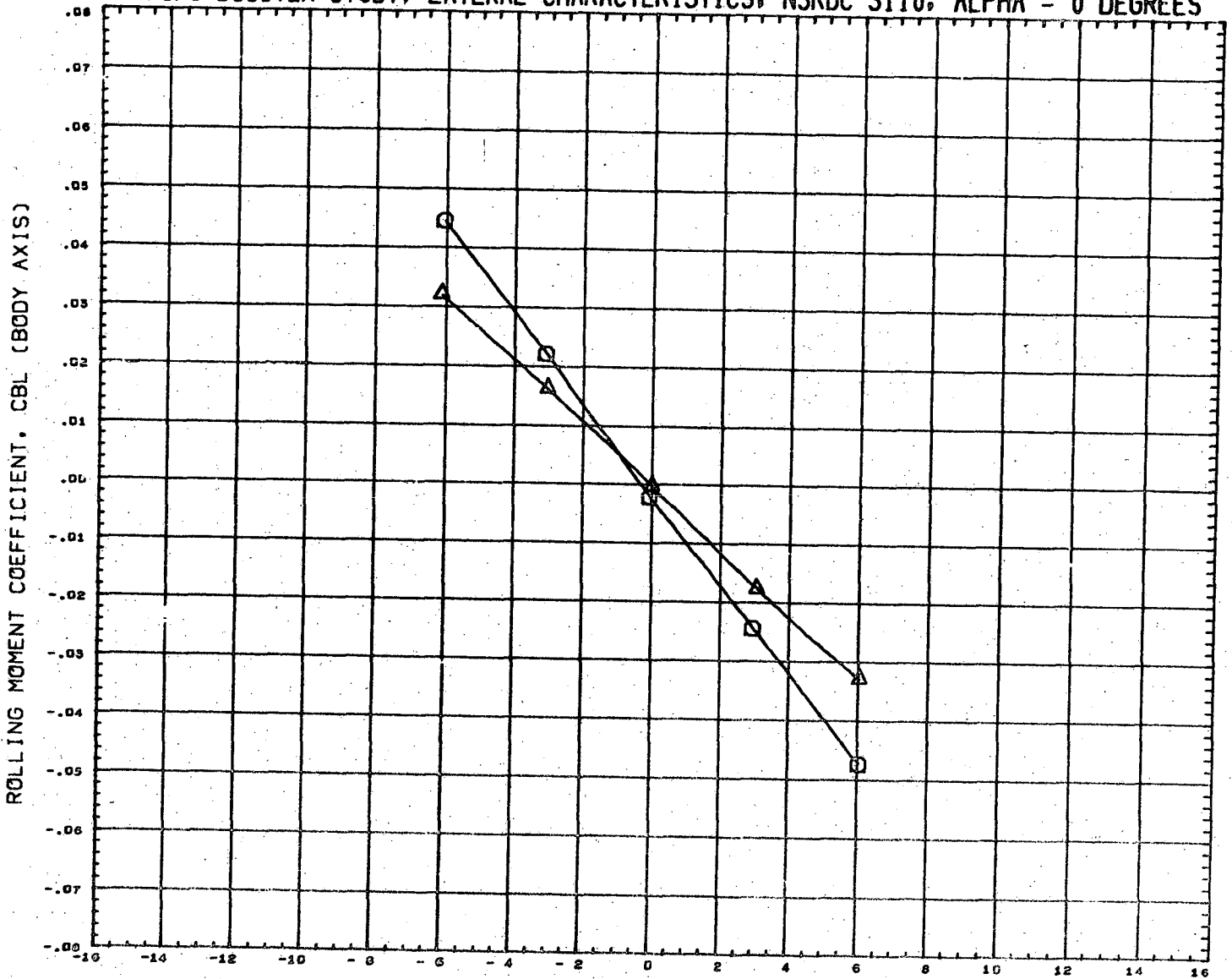
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2077)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2141)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2078)
(RN2142)



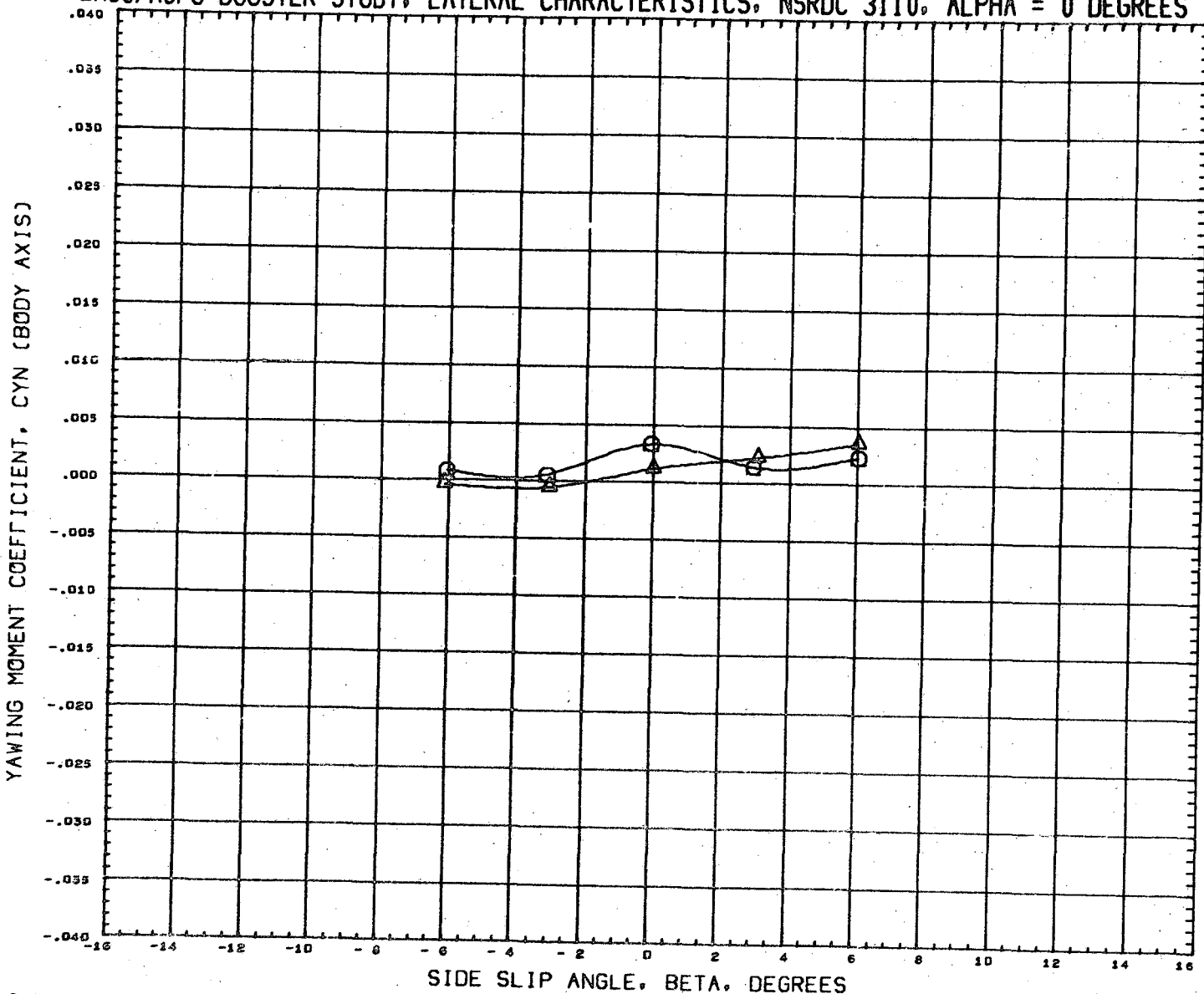
CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION
SREF 1.3950 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.380

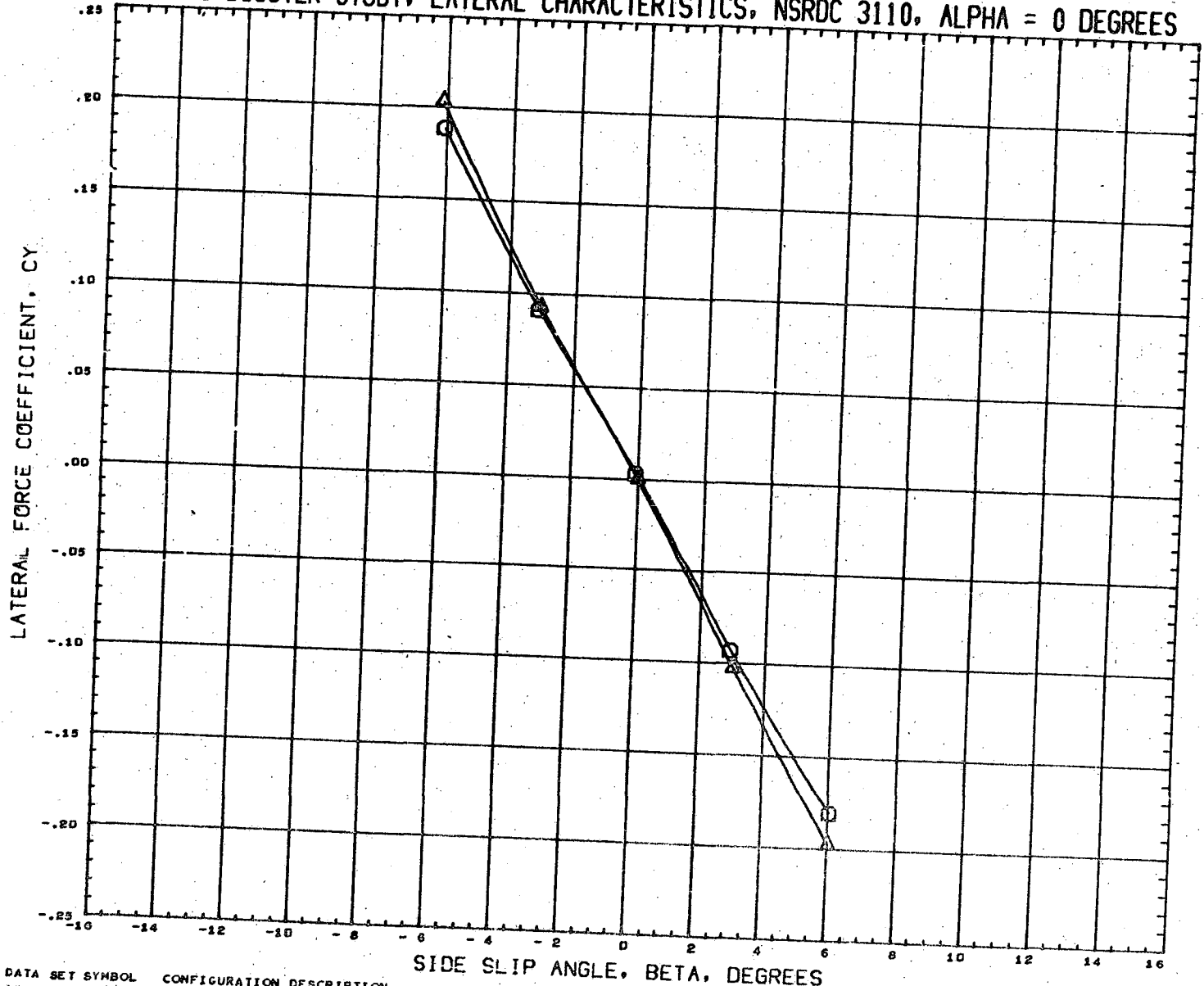
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2078)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2142)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2078)
(RN2142)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

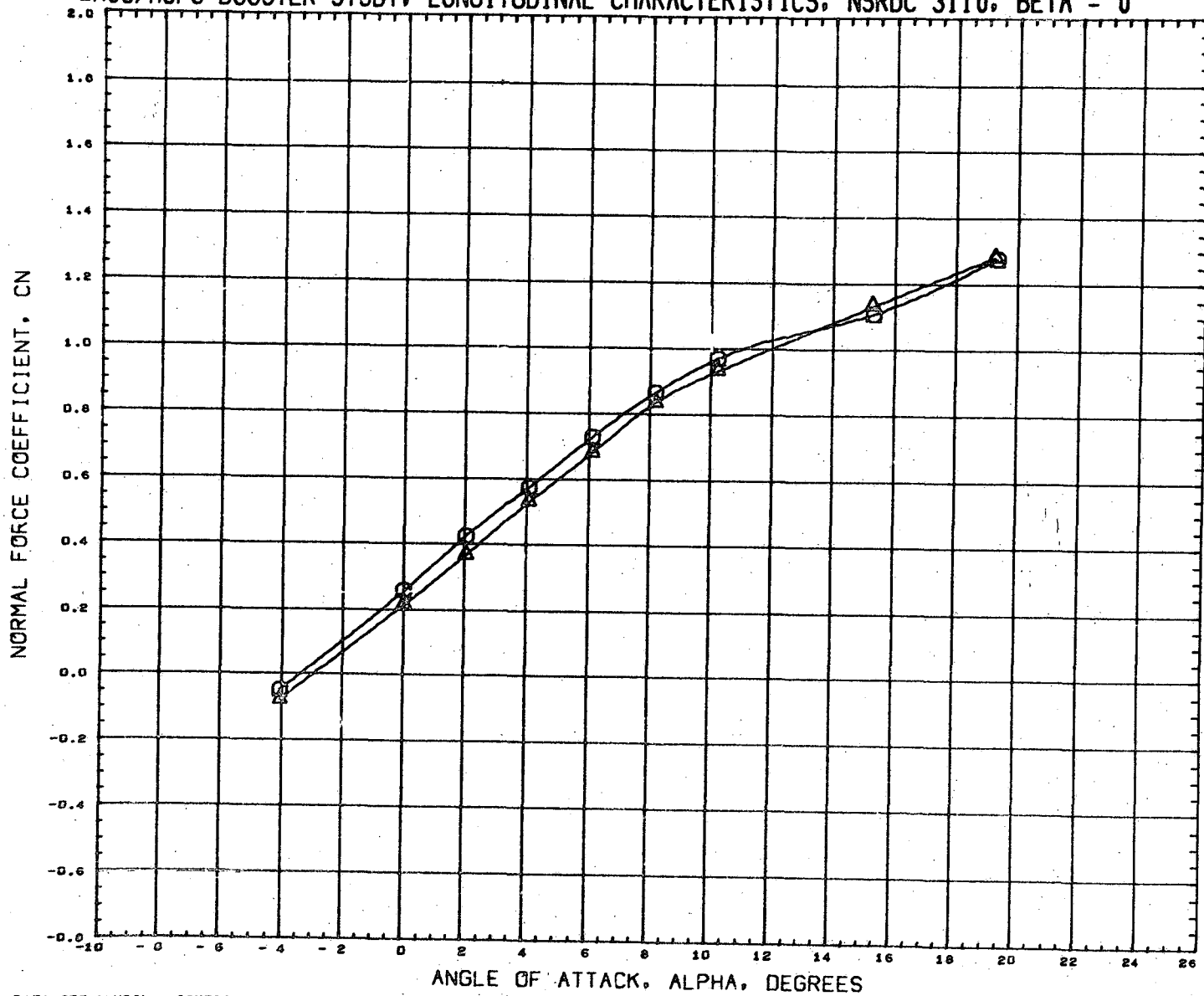
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

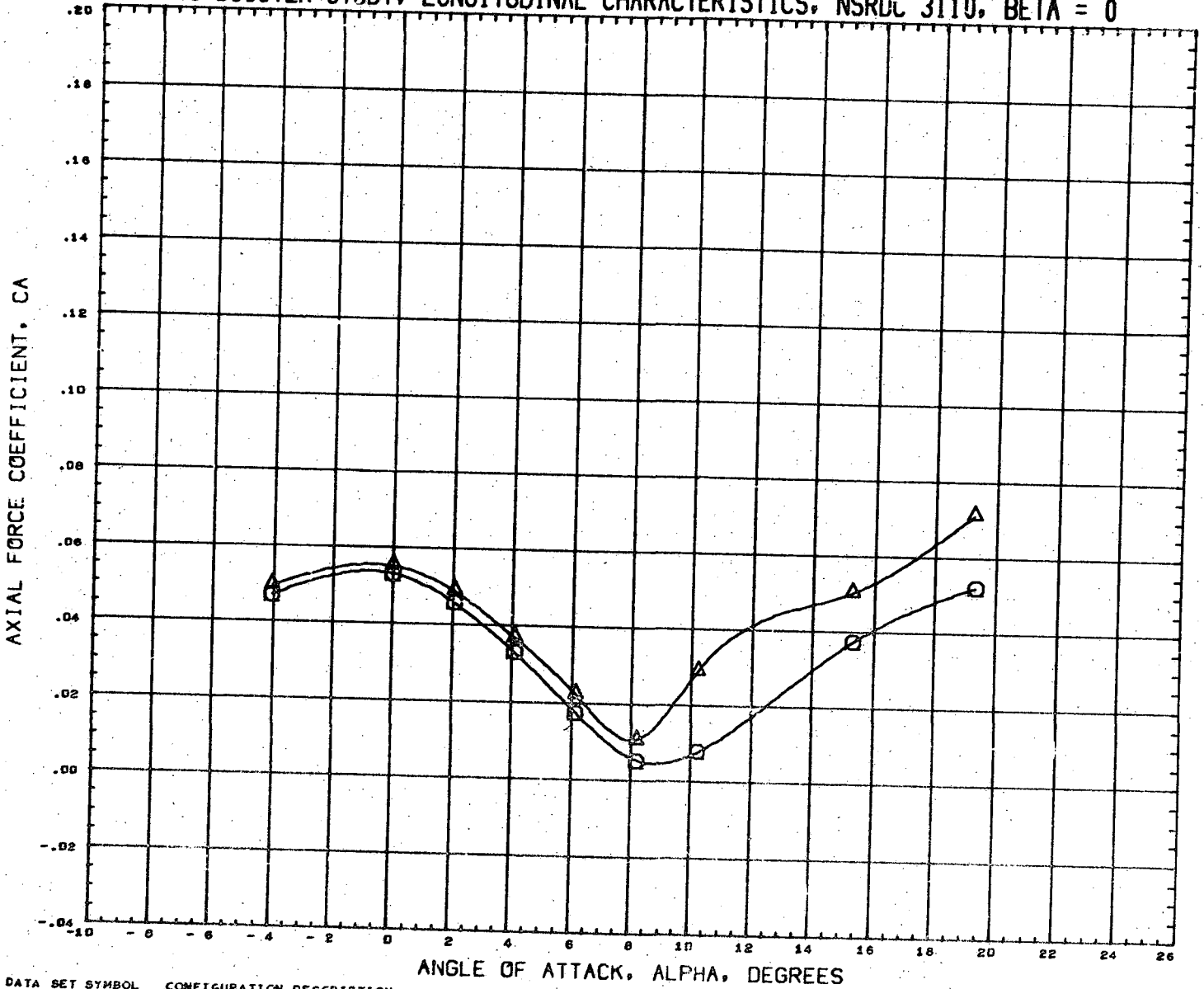
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2105)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2169)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.301

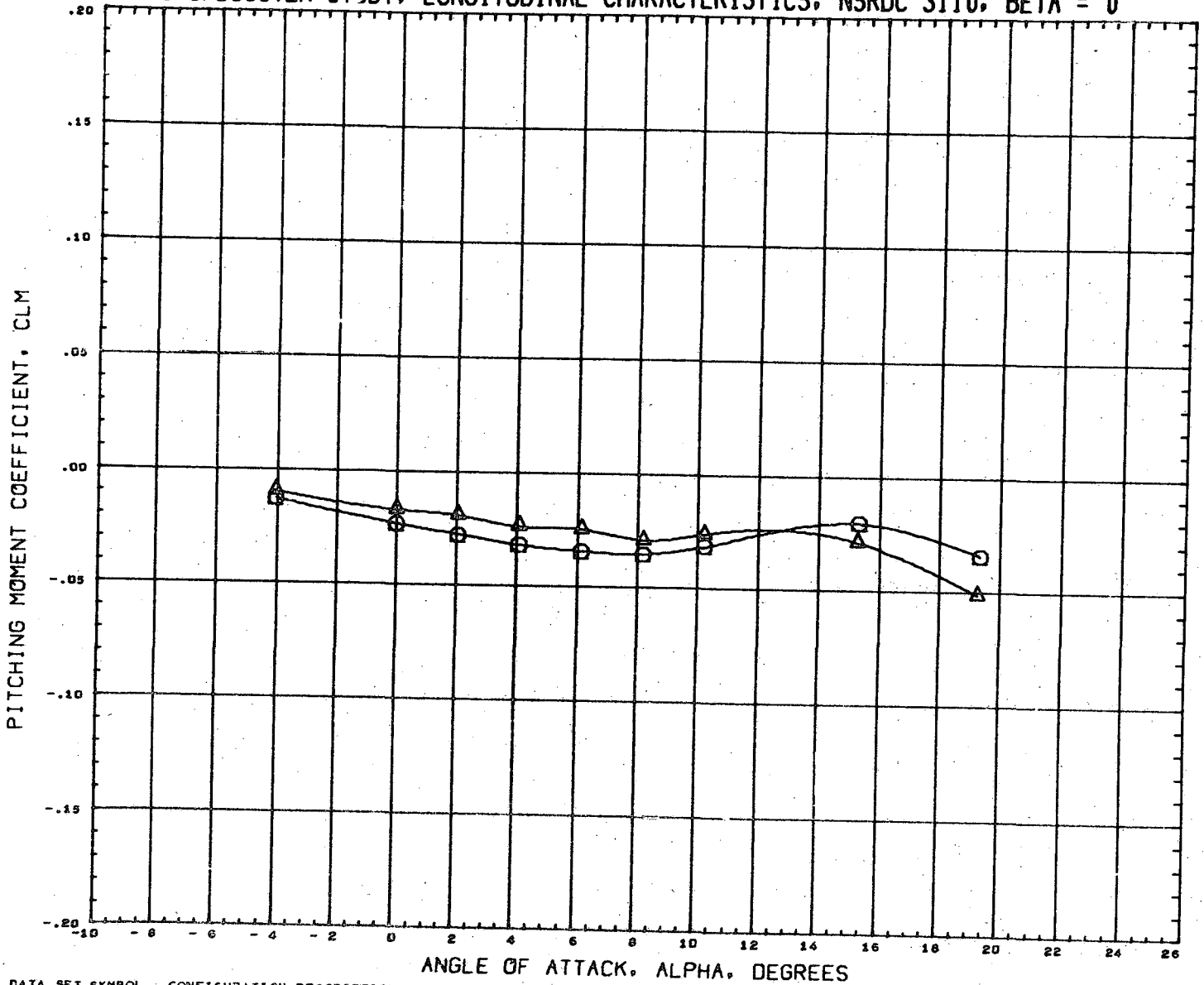
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2105)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2169)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

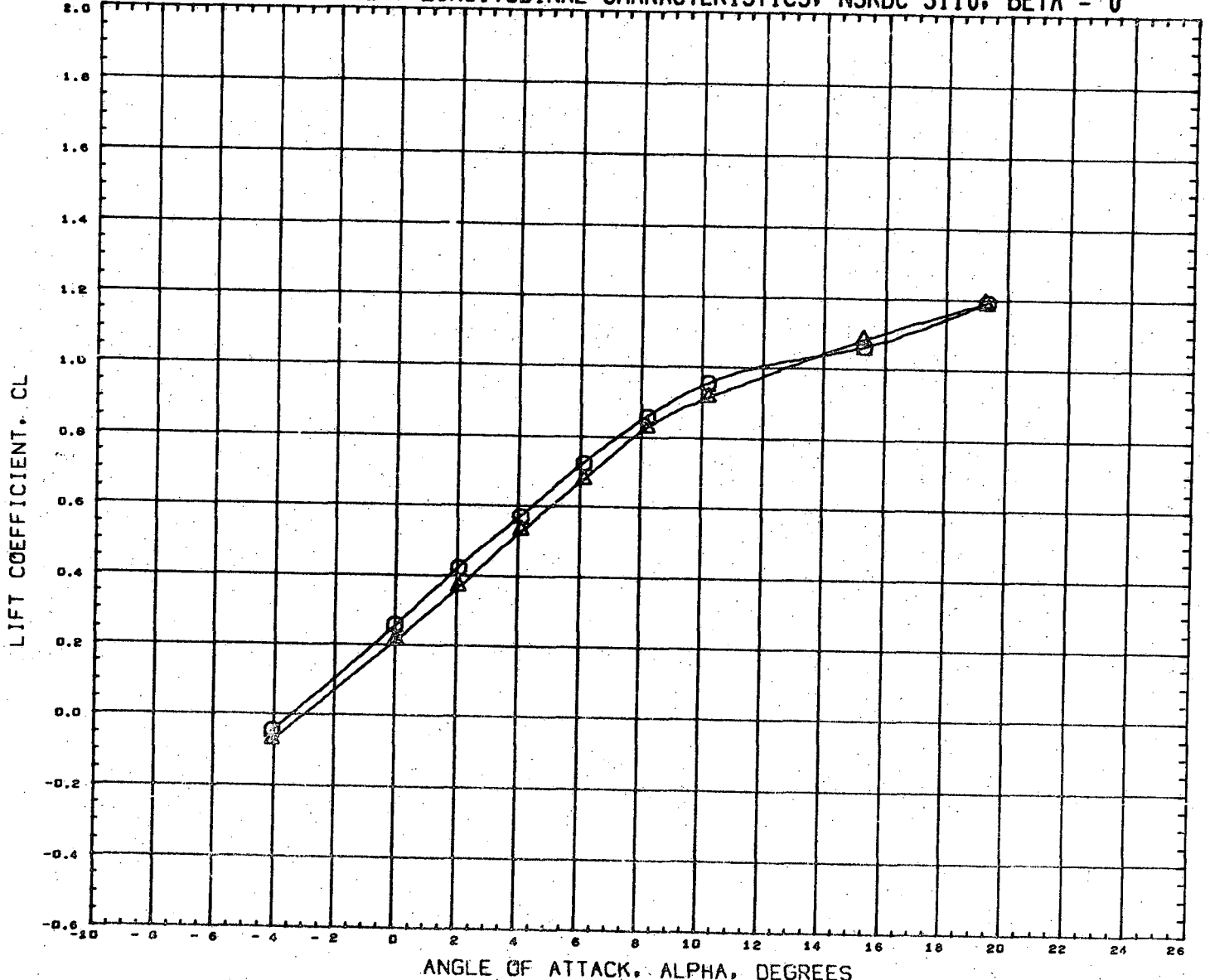
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2105)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2169)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RM2105)
(RM2169)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

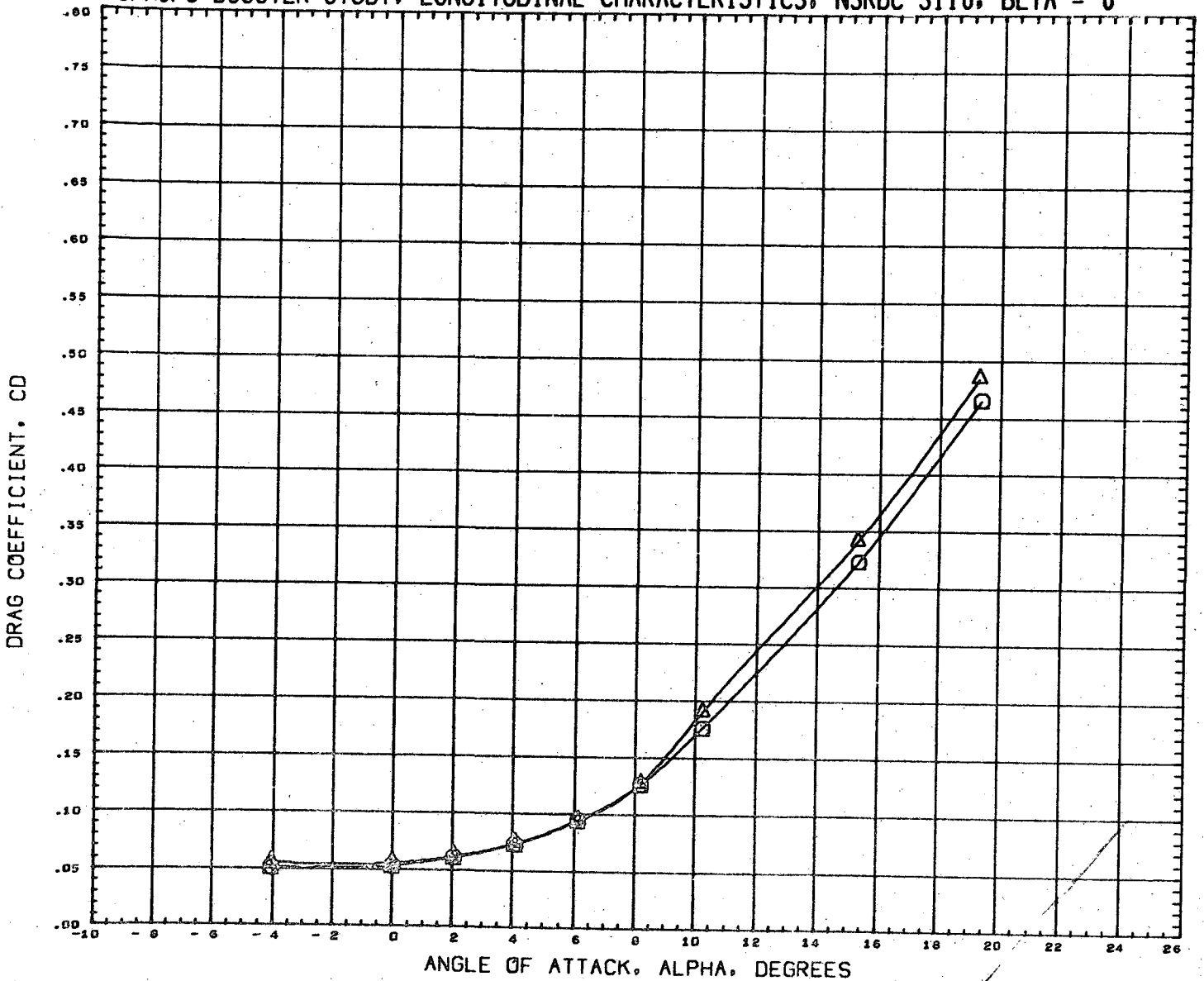
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



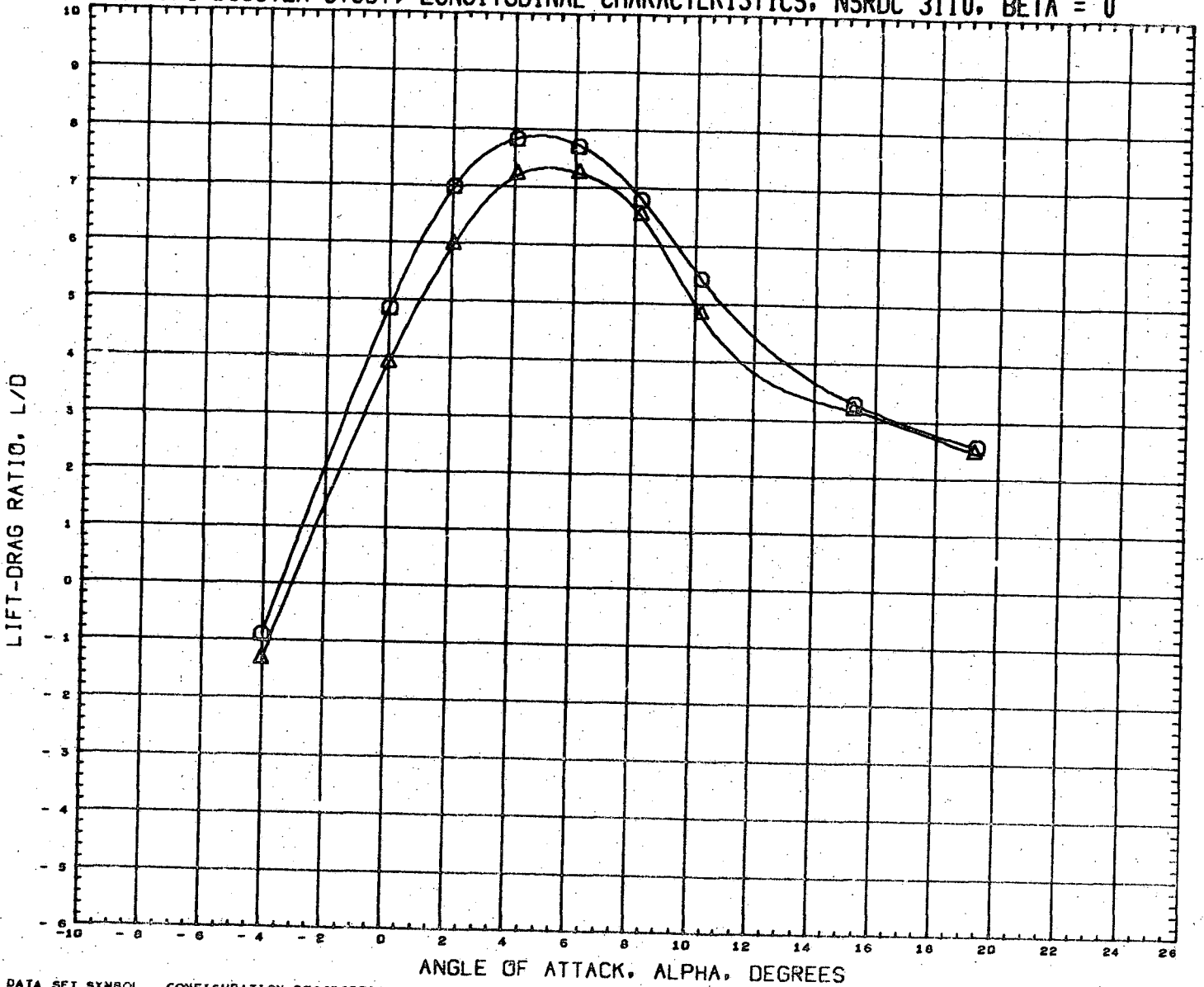
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2105)	NSRDC-311C, MSFC/LMSC BOOSTER 81C1F1W1V1
(RN2169)	NSRDC-311D, MSFC/LMSC BOOSTER 81C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.381

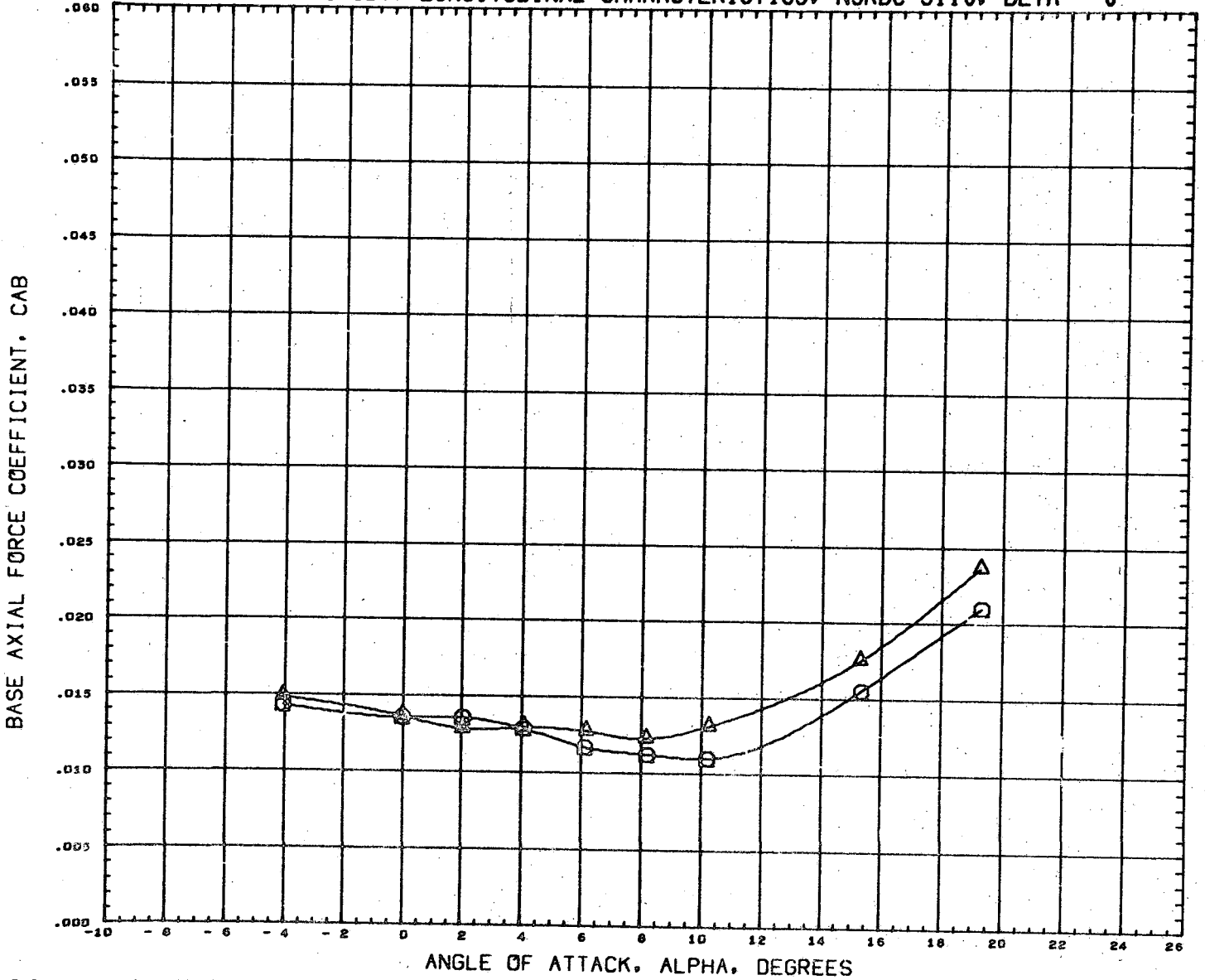
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2105)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2169)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

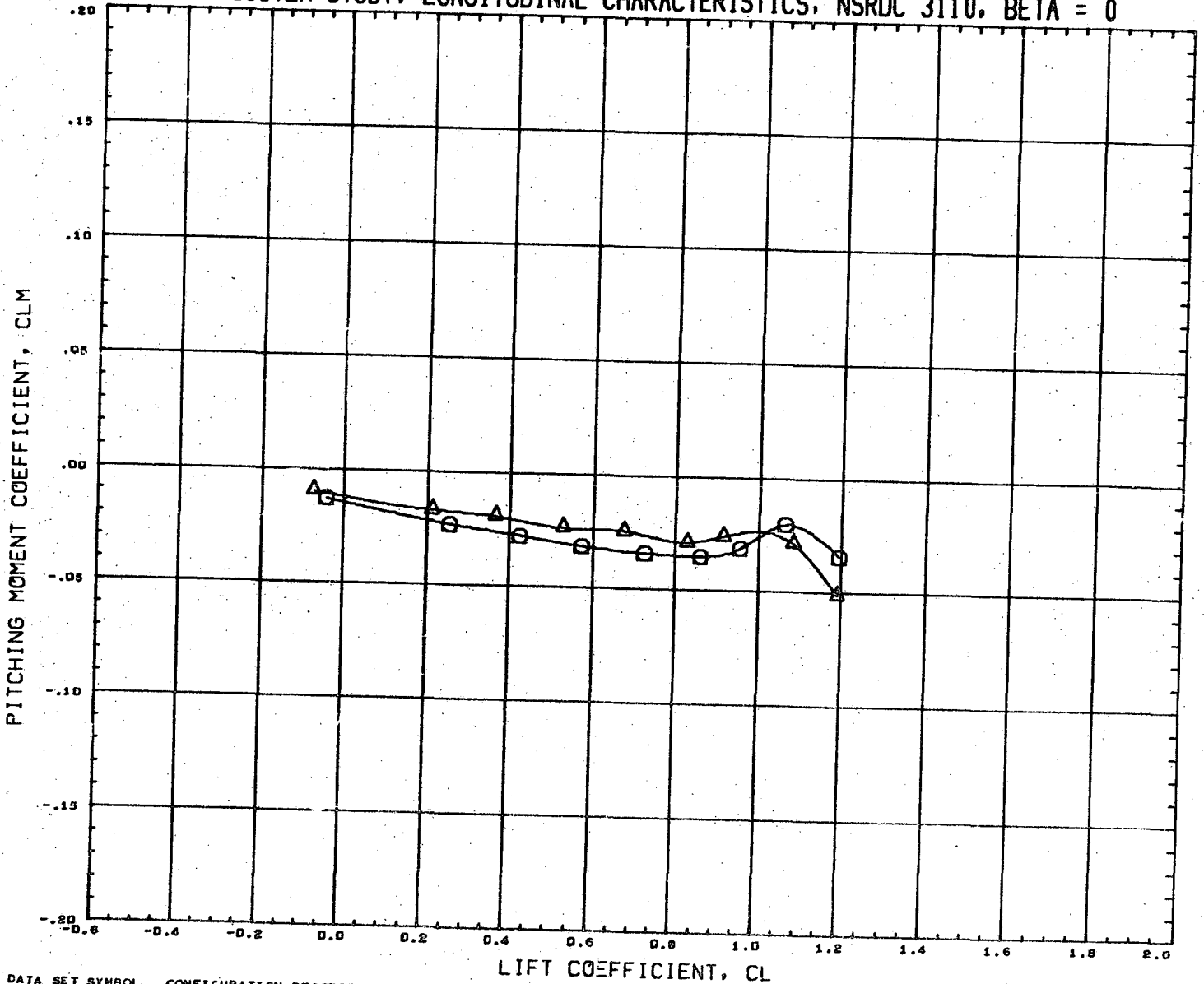
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2105)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2169)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMNP 31.1400 INCHES
						YMNP 0.0000 INCHES
						ZMNP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

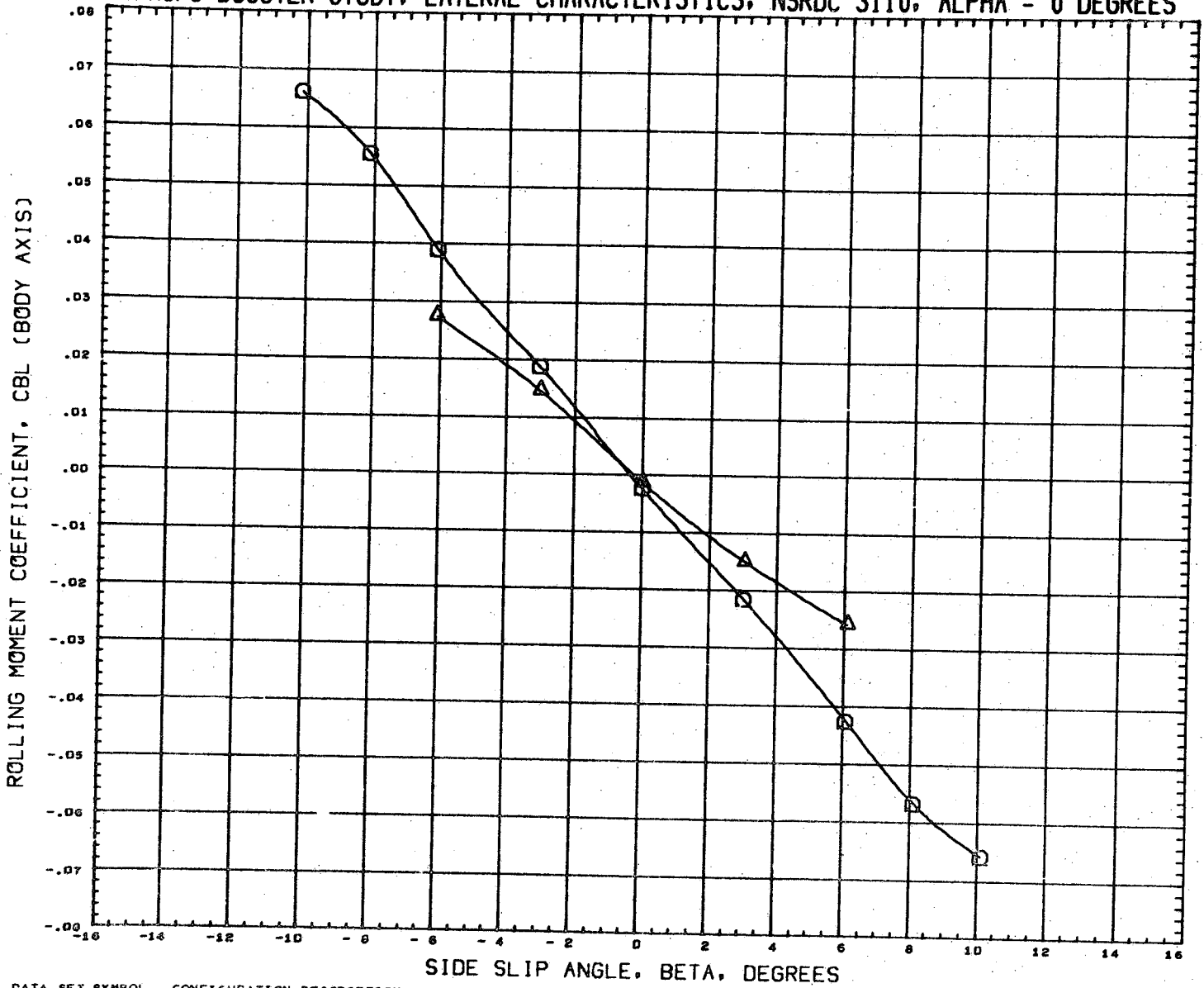
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2105)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2169)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YHRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.301

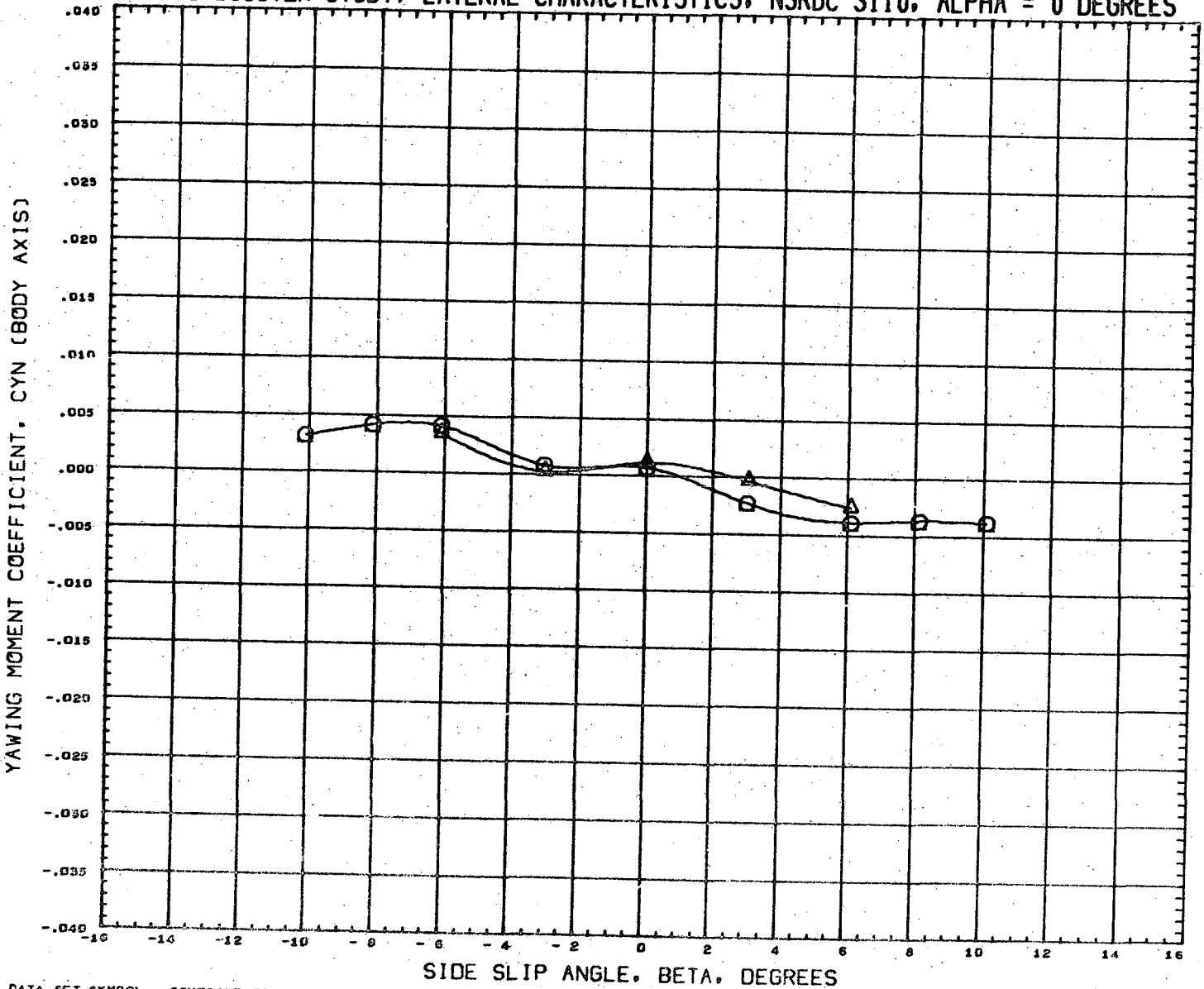
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2106)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2170)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.370

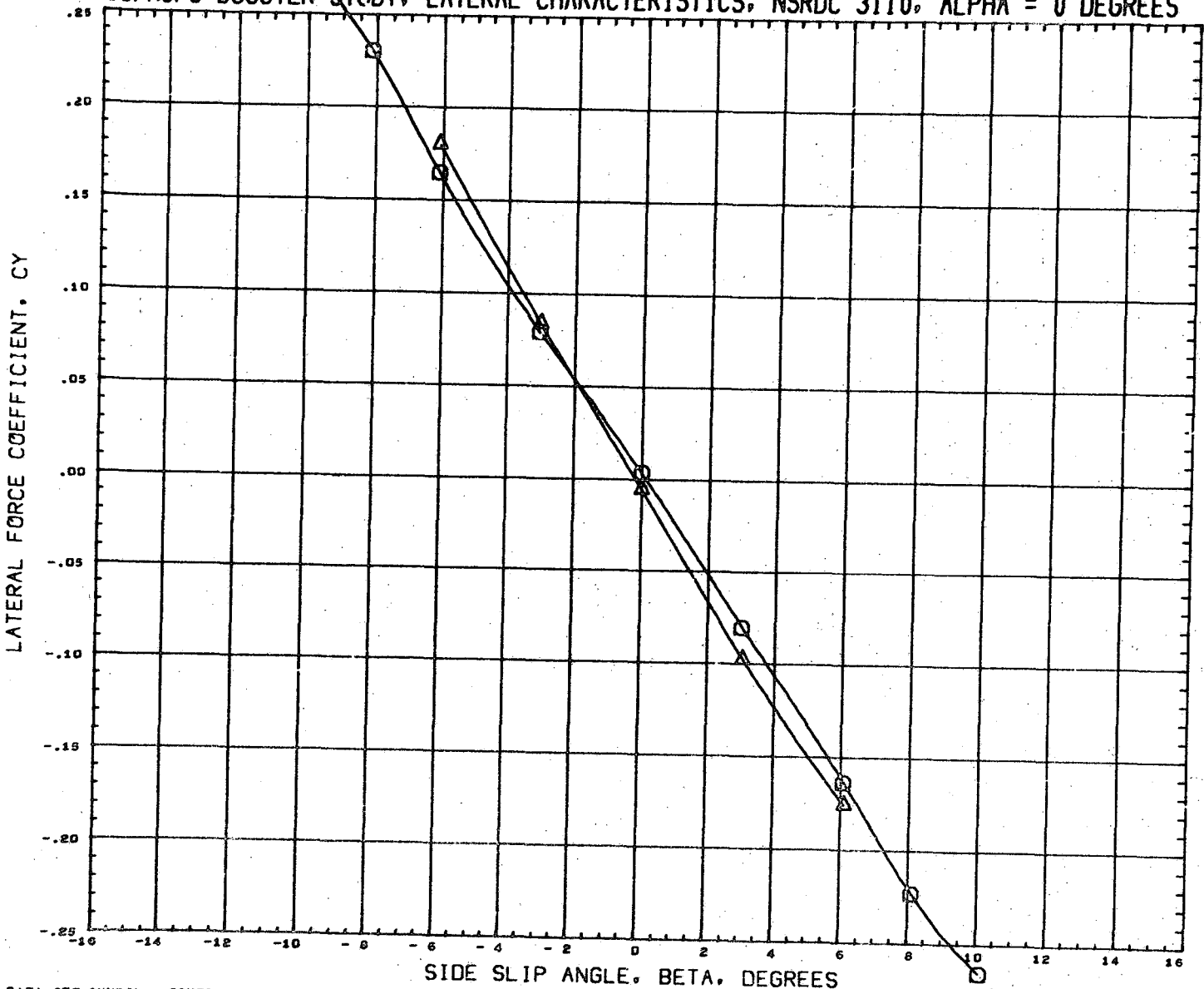
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WMGPOS	REFERENCE INFORMATION
(RN2106)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2170)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.378

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



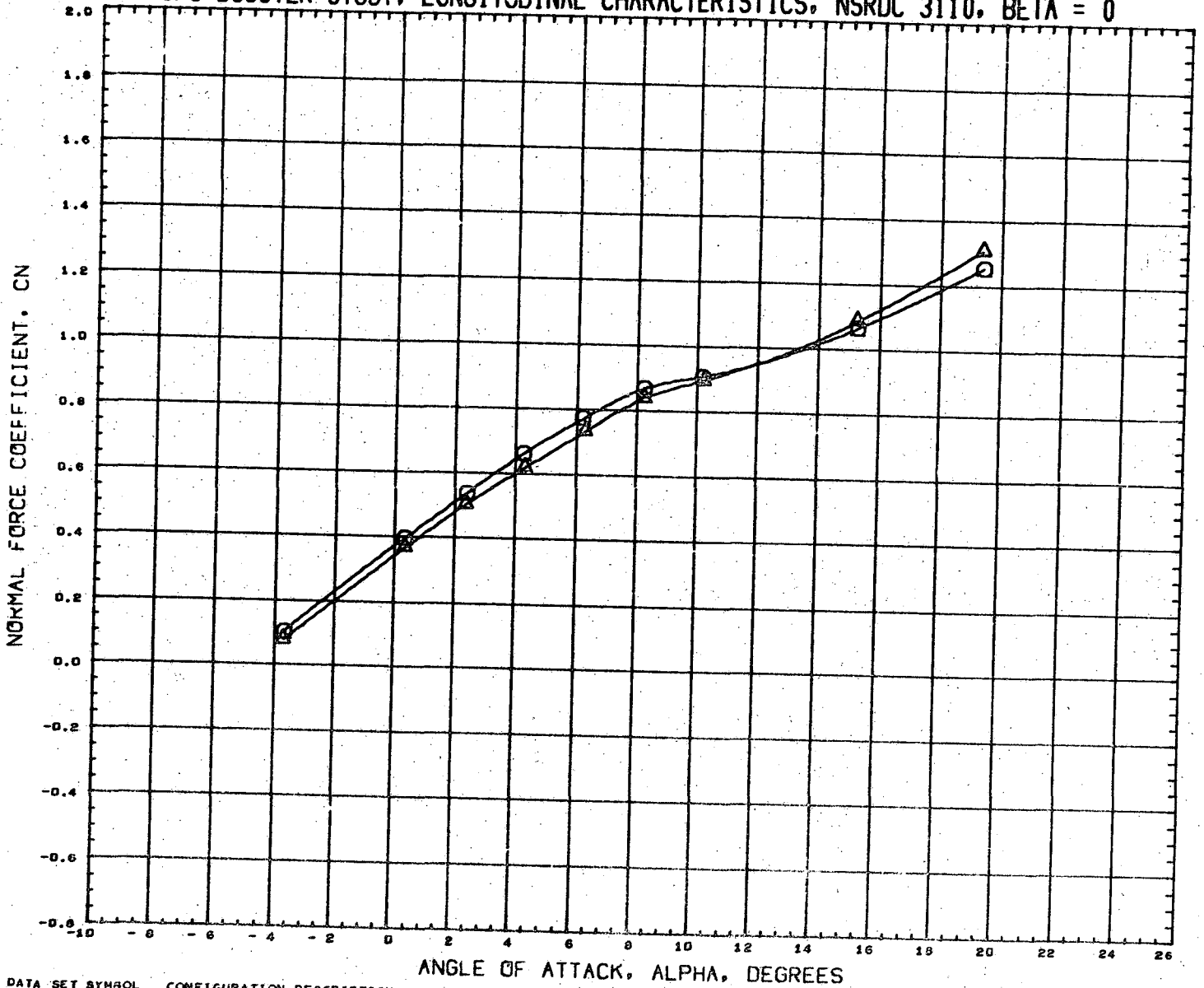
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2106)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2170)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.378

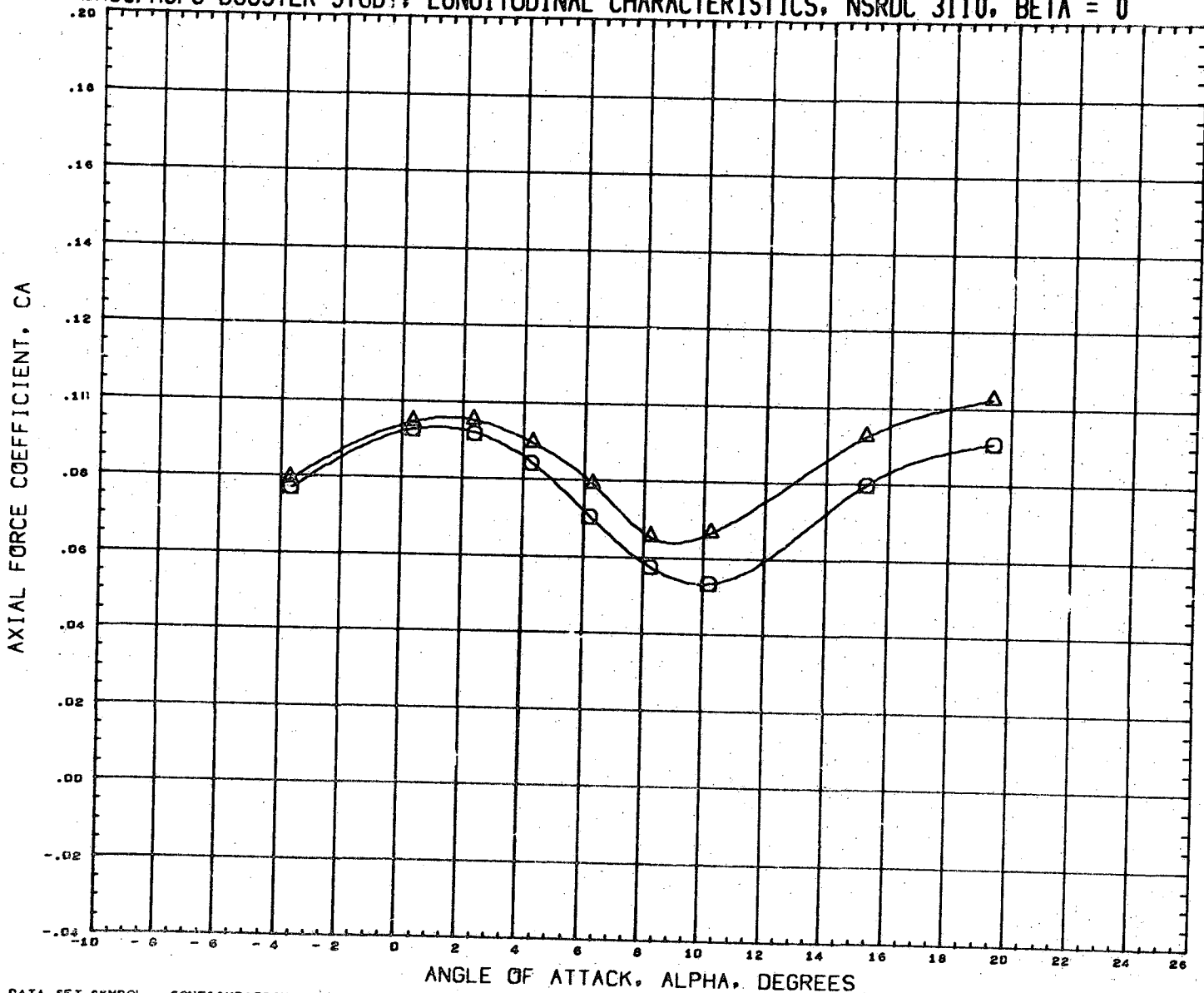
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2109)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF	1.3550 SQ. FT.
(RN2173)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	51.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.381

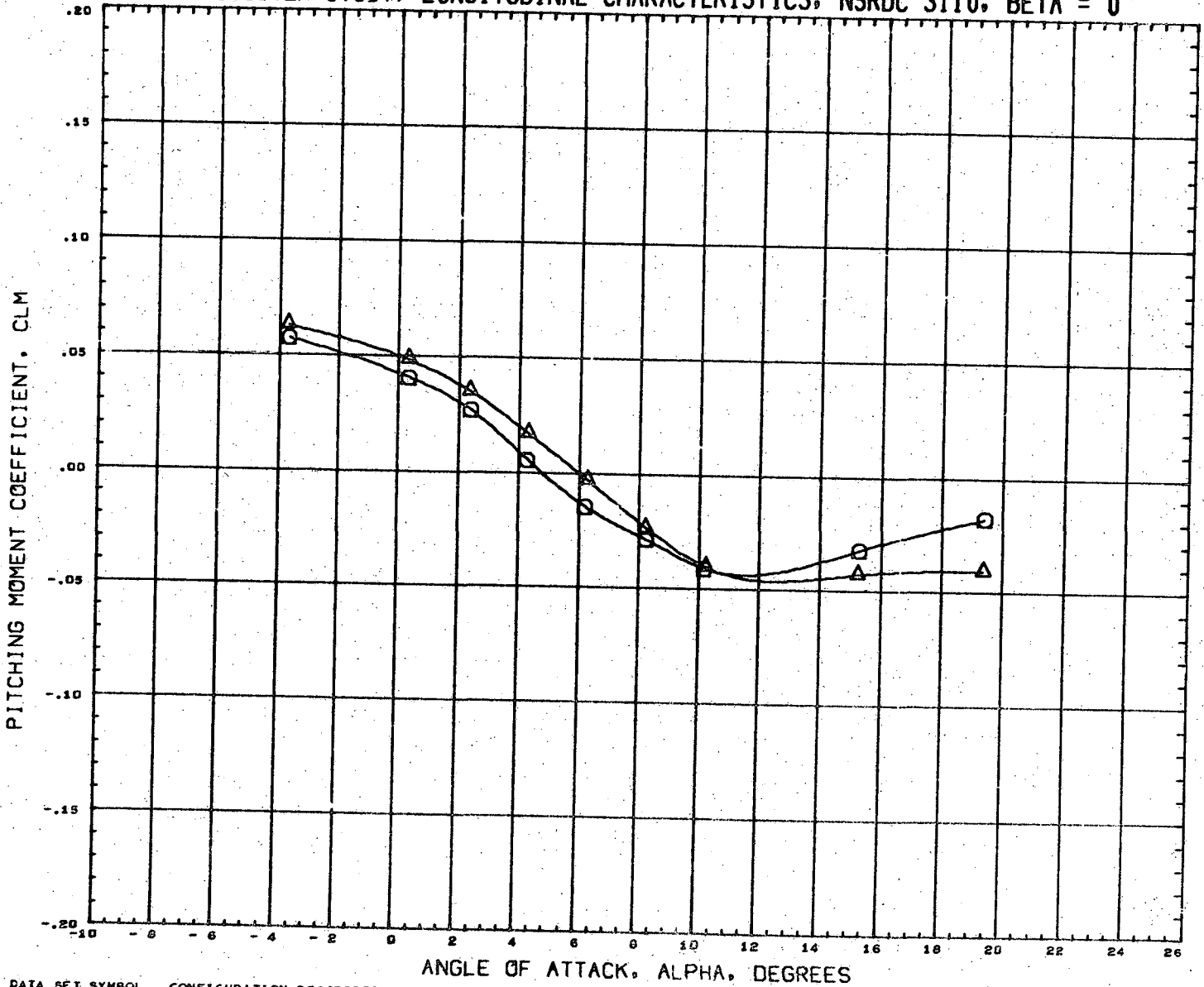
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2109)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2173)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.581

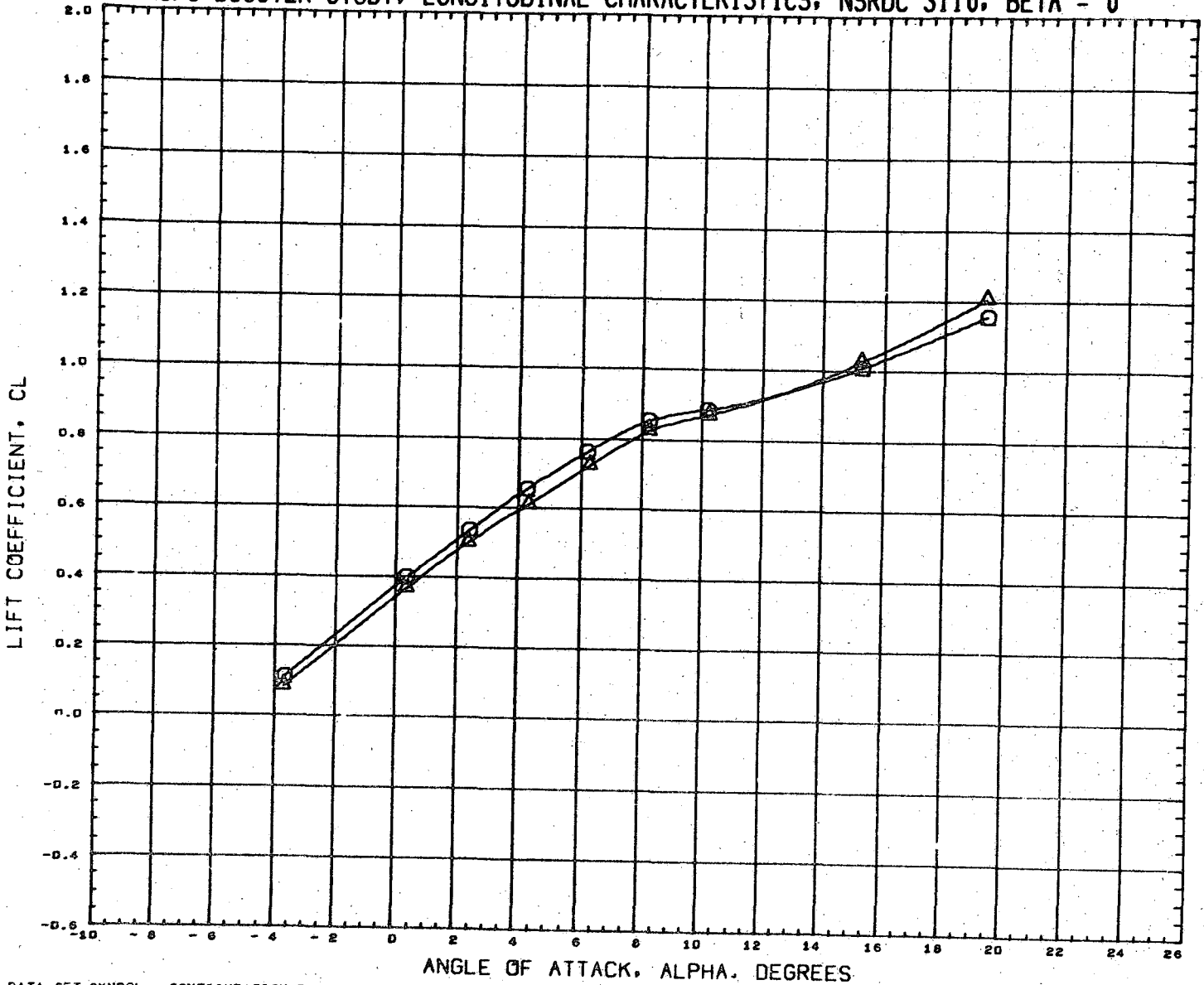
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2109)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2173)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.361

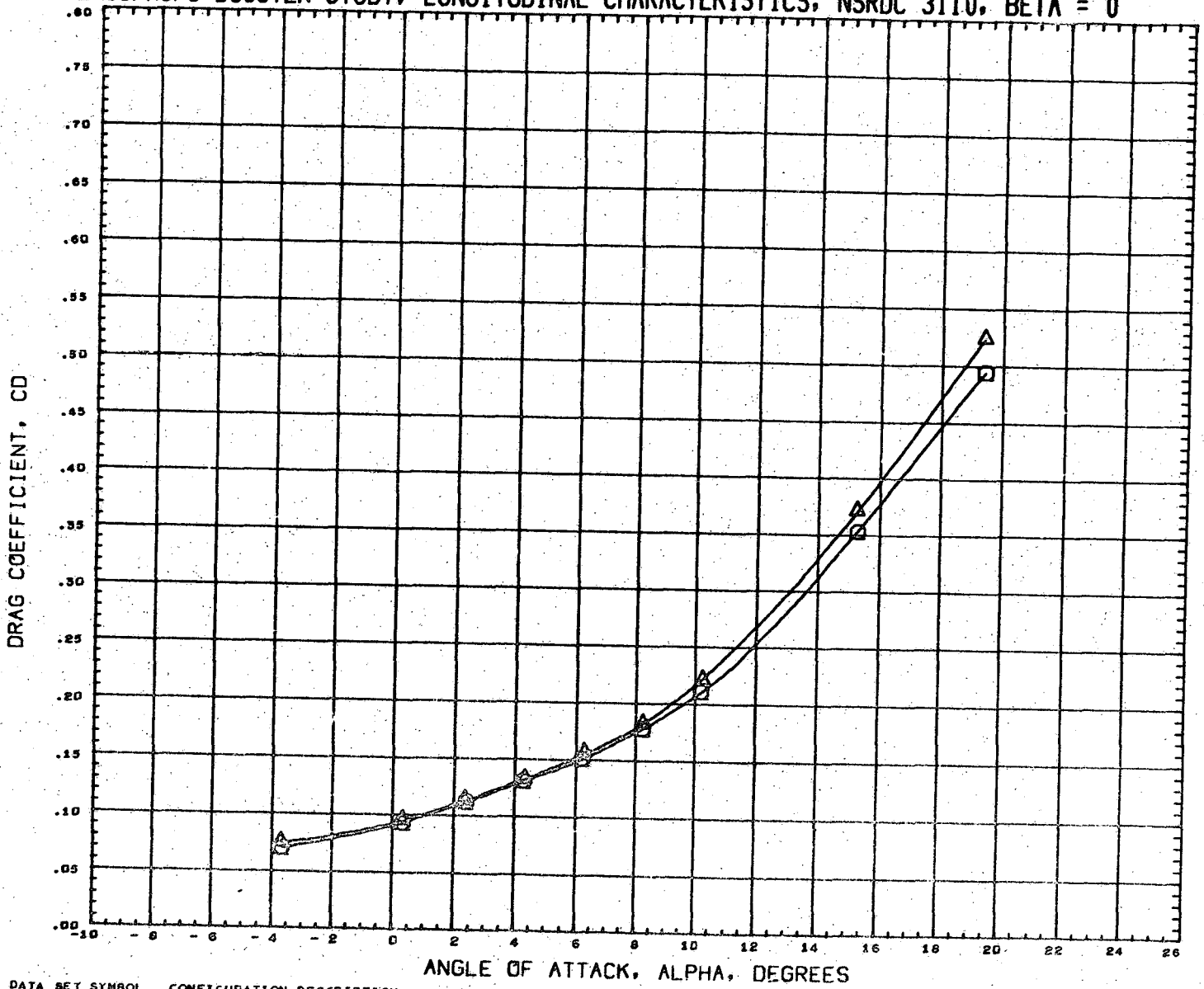
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2109)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2173)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.581

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2109) □
(RN2173) △

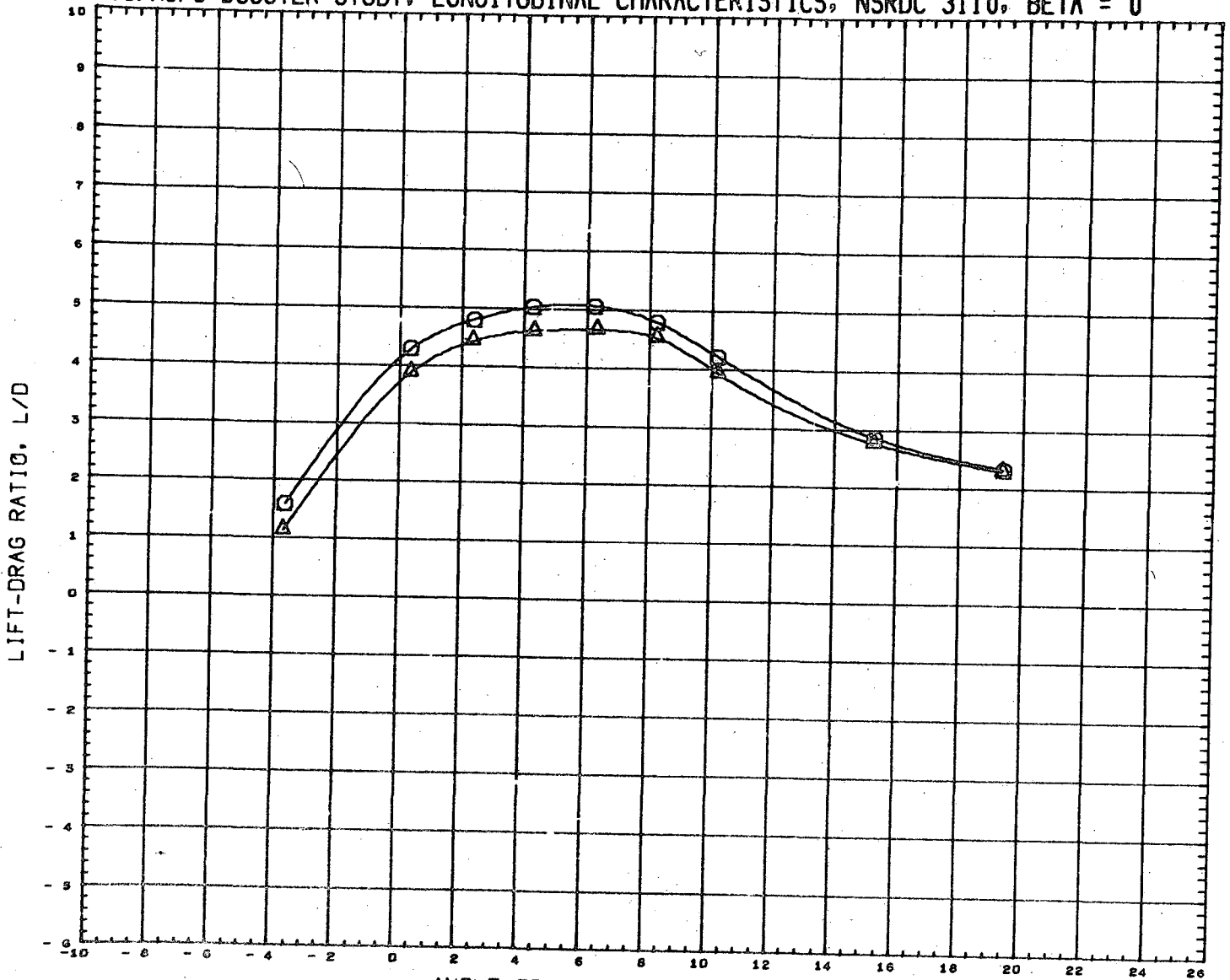
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL
(RN2109)
(RN2173)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

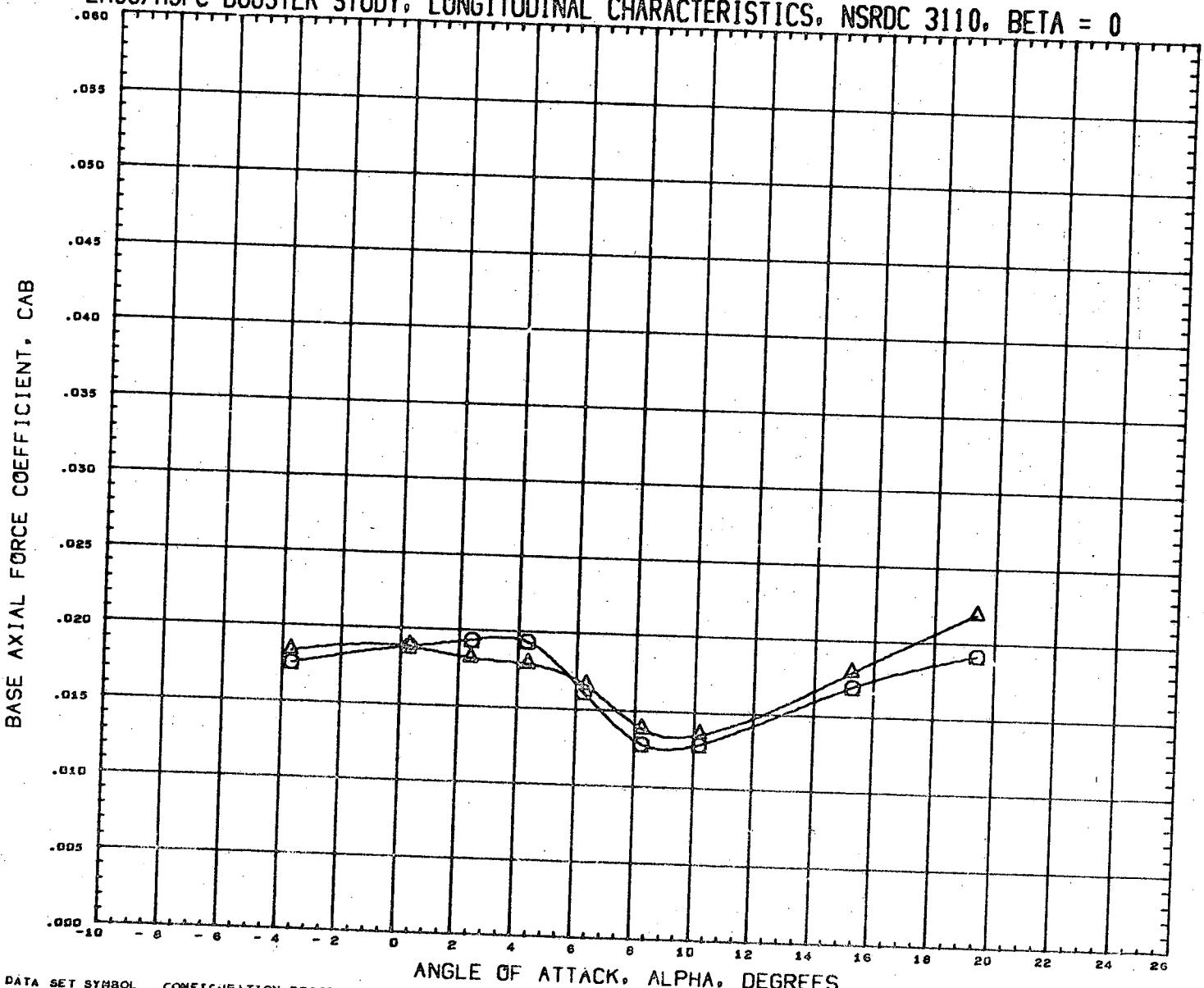
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS. NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2109)
(RN2173)

CONFIGURATION DESCRIPTION
NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V2D1

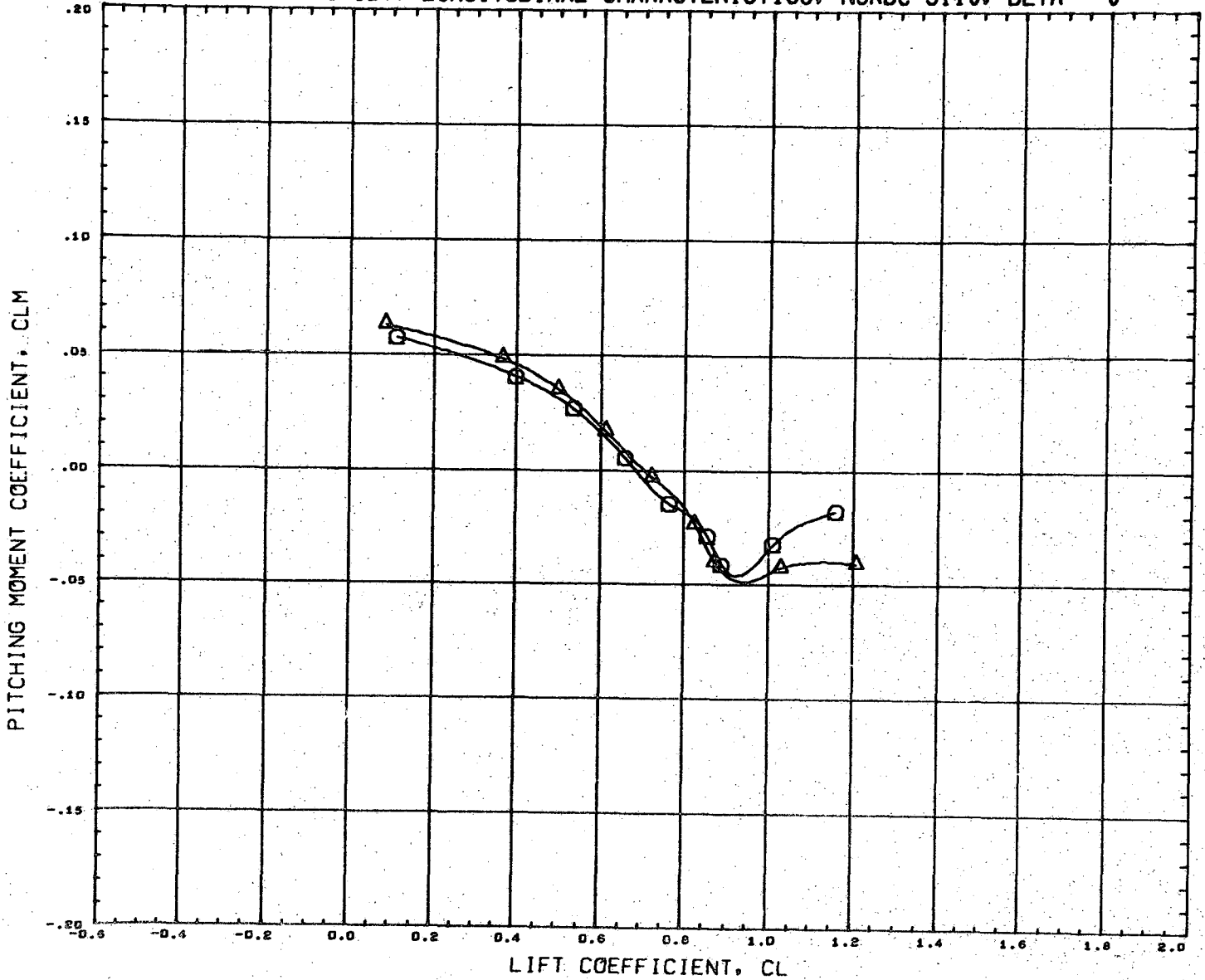
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

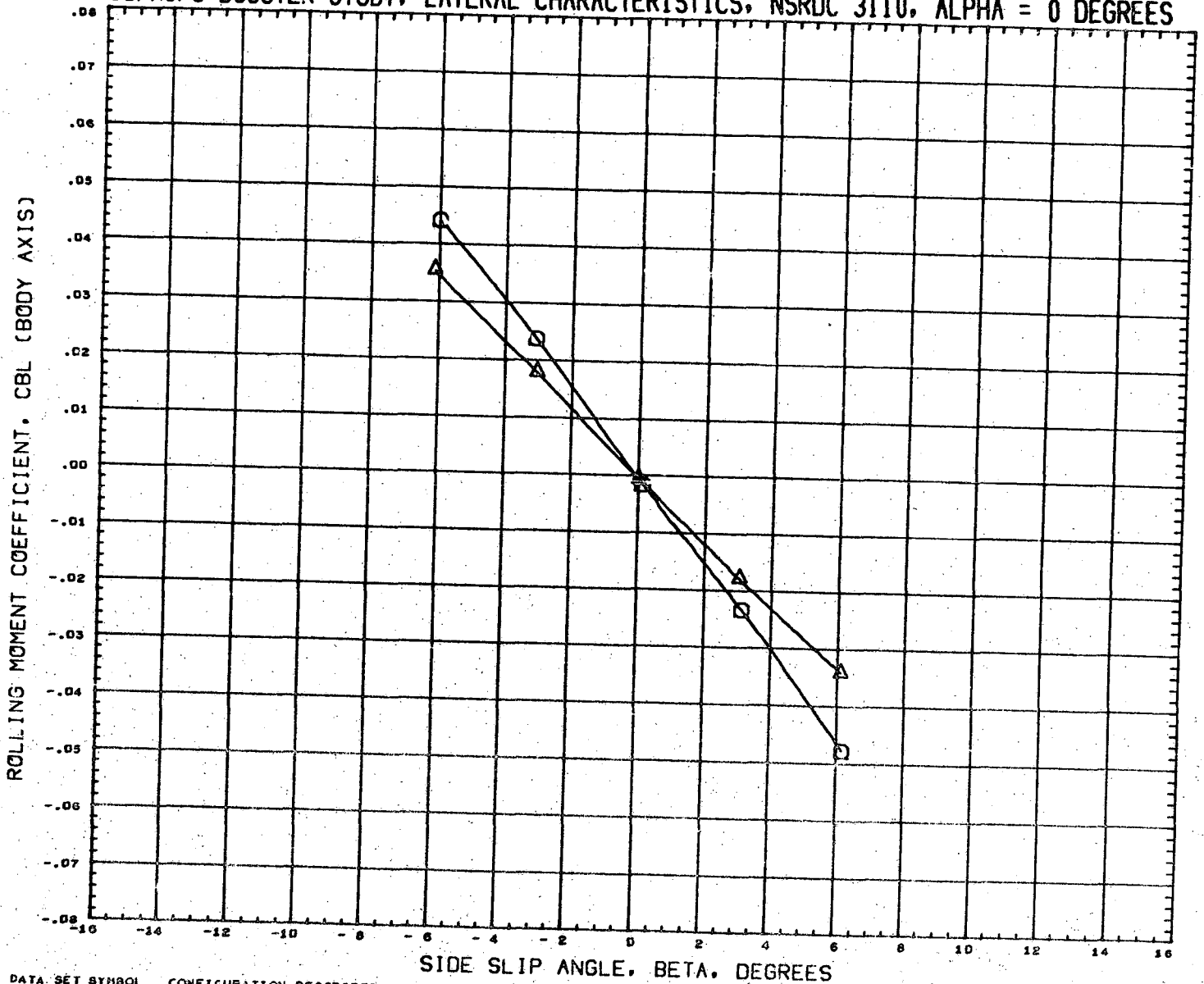
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2109)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2173)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2110)
(RN2174)



CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

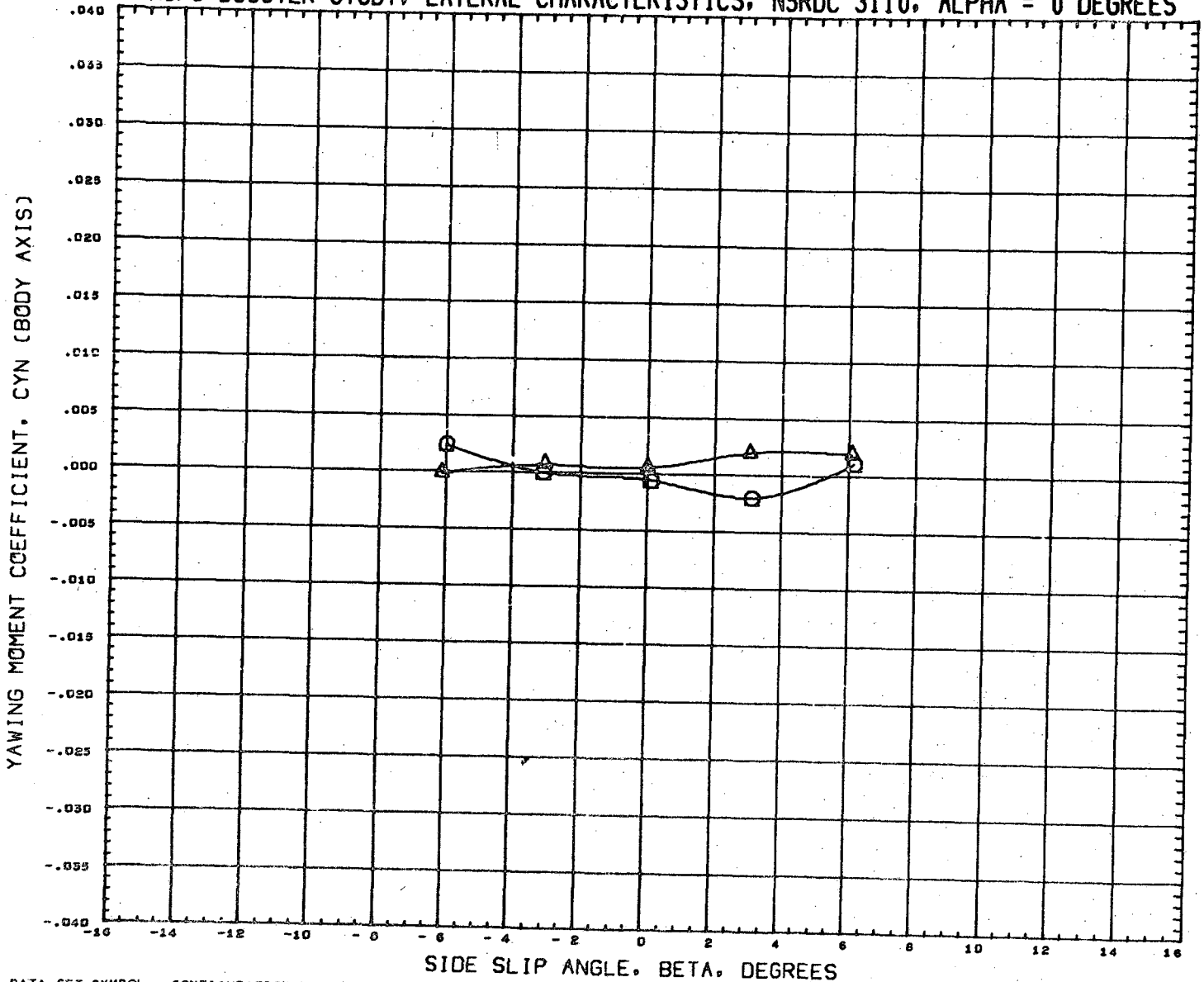
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	1.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH D.380

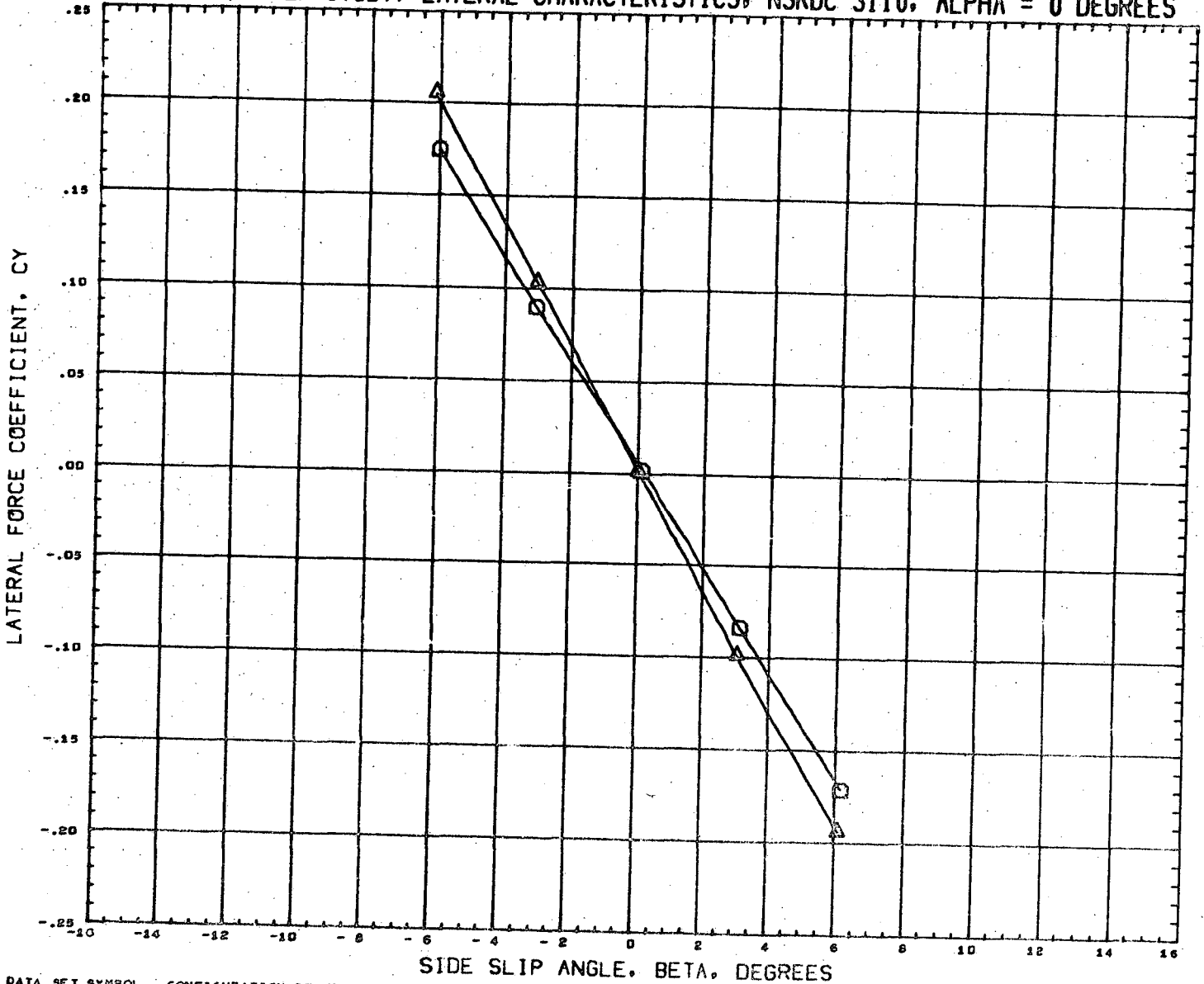
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2110)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2174)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

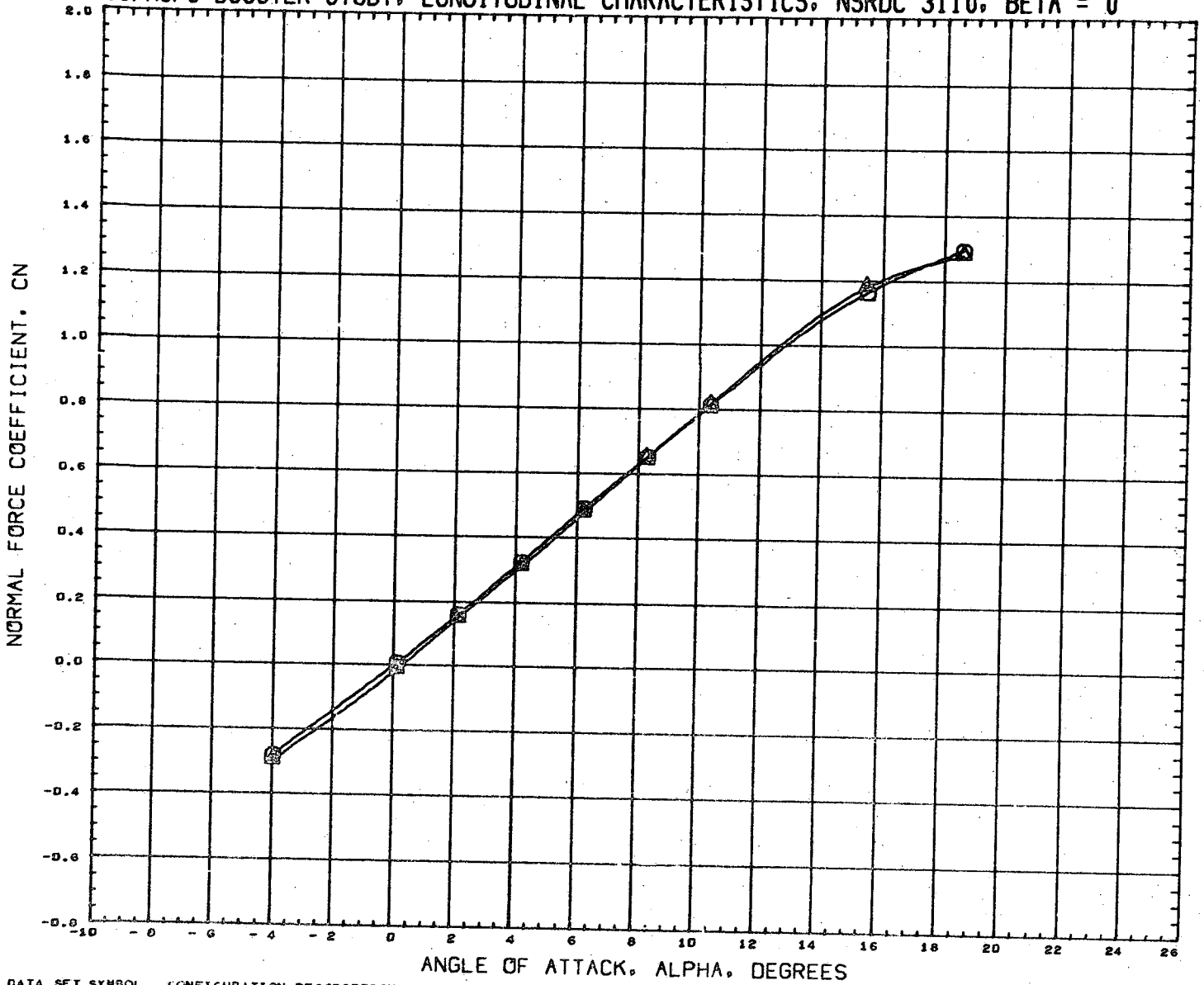
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2110)	NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2174)	NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

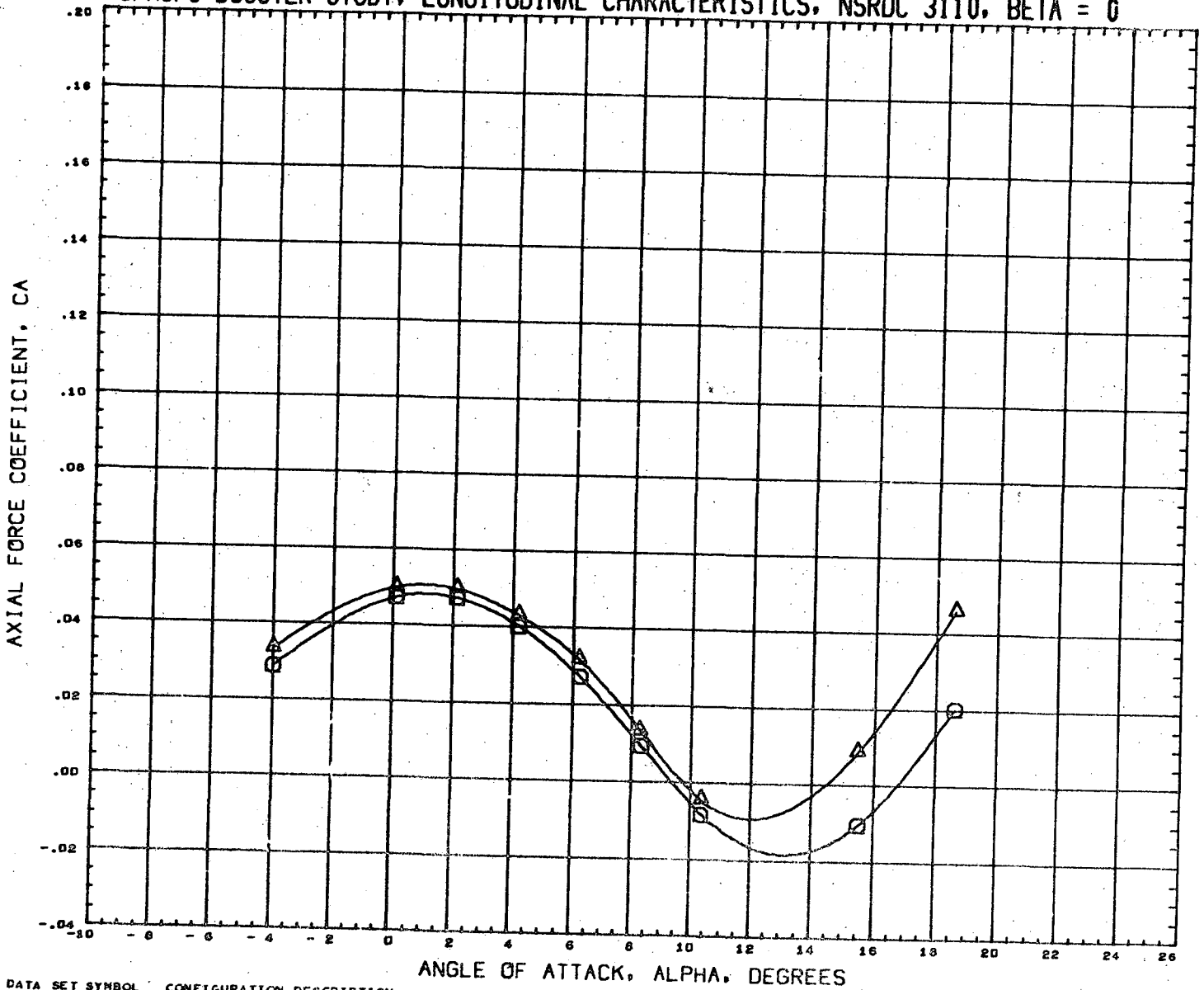
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS	REFERENCE INFORMATION
(RN2081)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2145)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

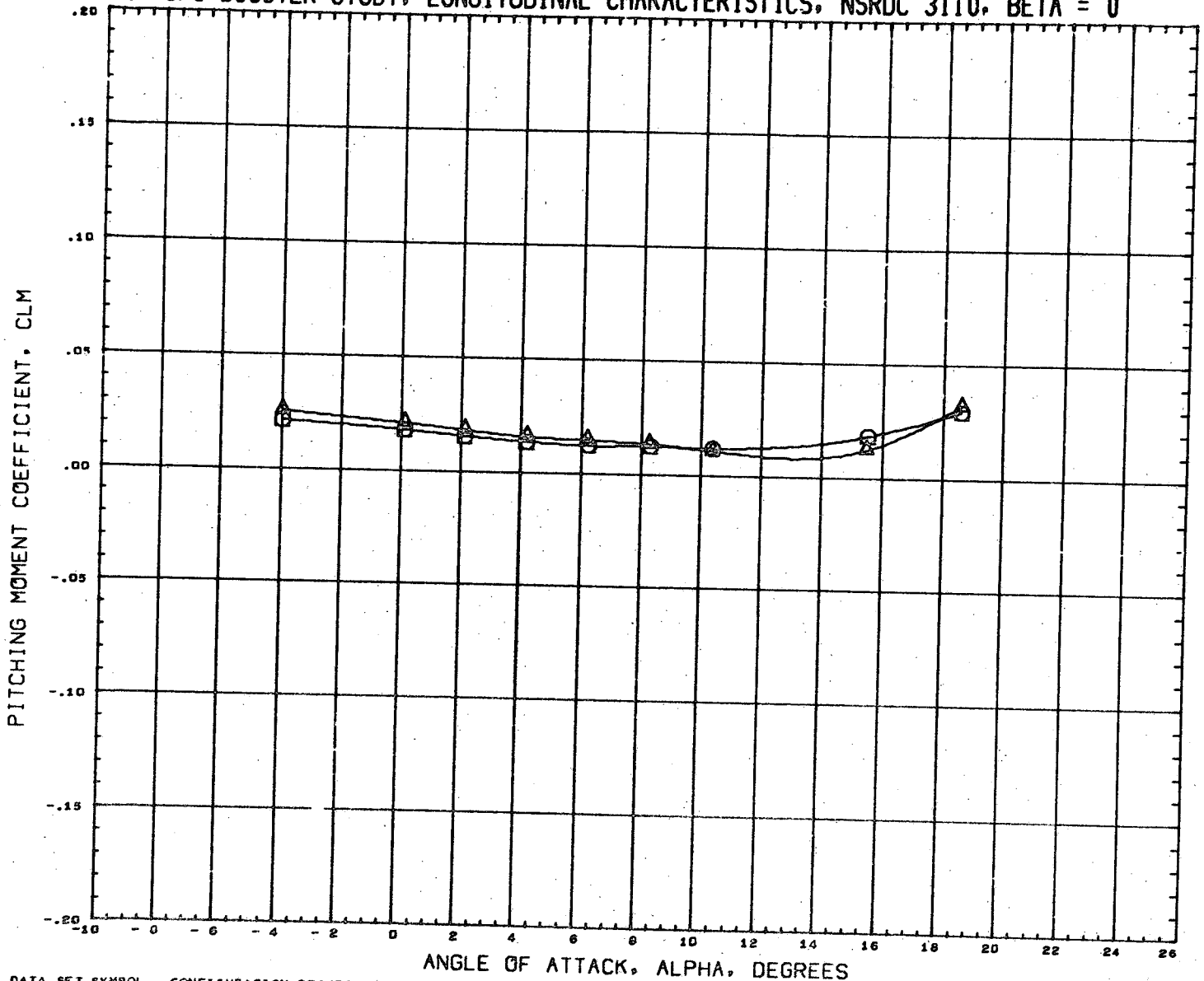
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2081)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	SREF	1.3550 SQ.FT.
(RN2145)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

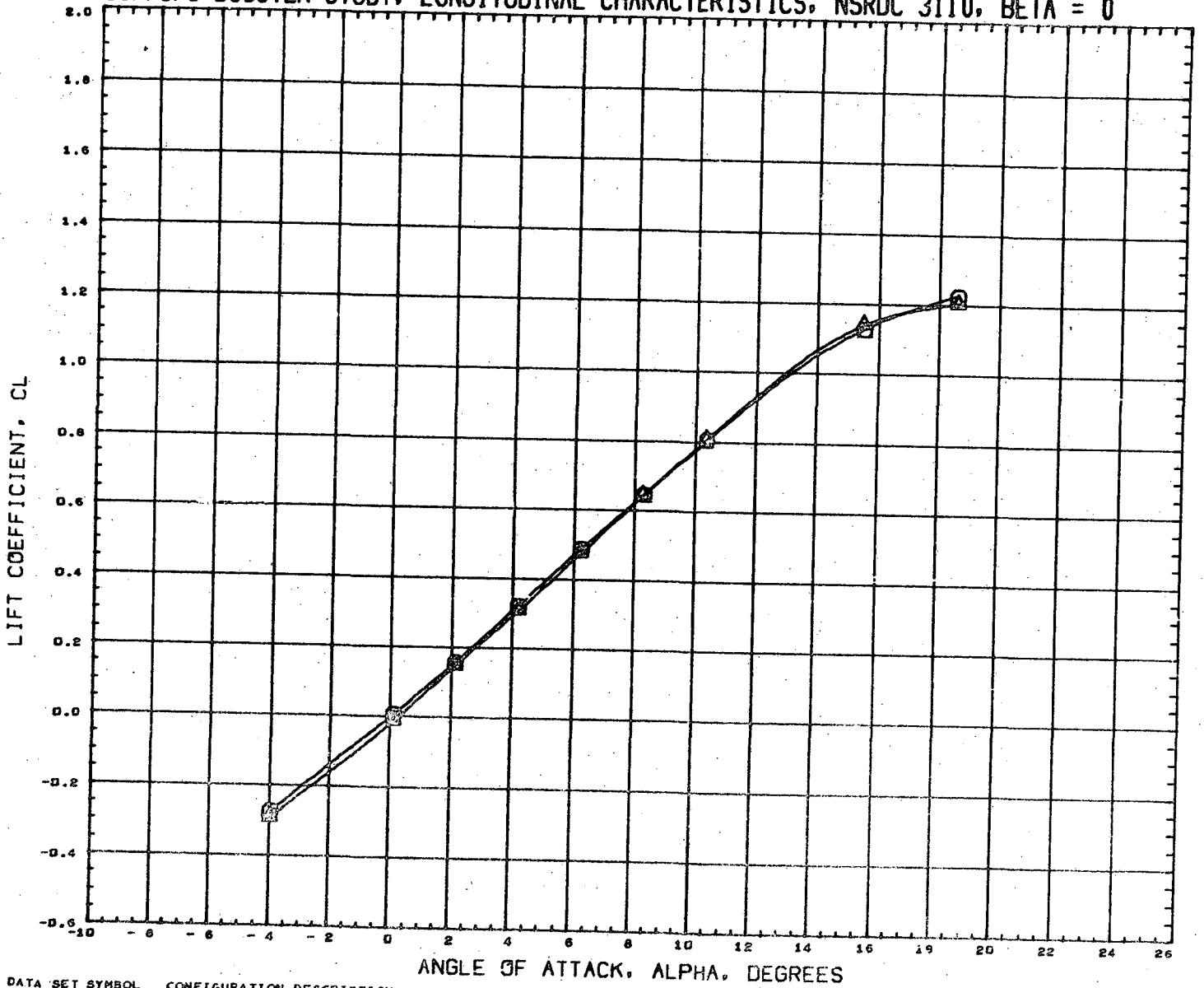
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2081)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2145)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.300

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2081)
(RN2145)



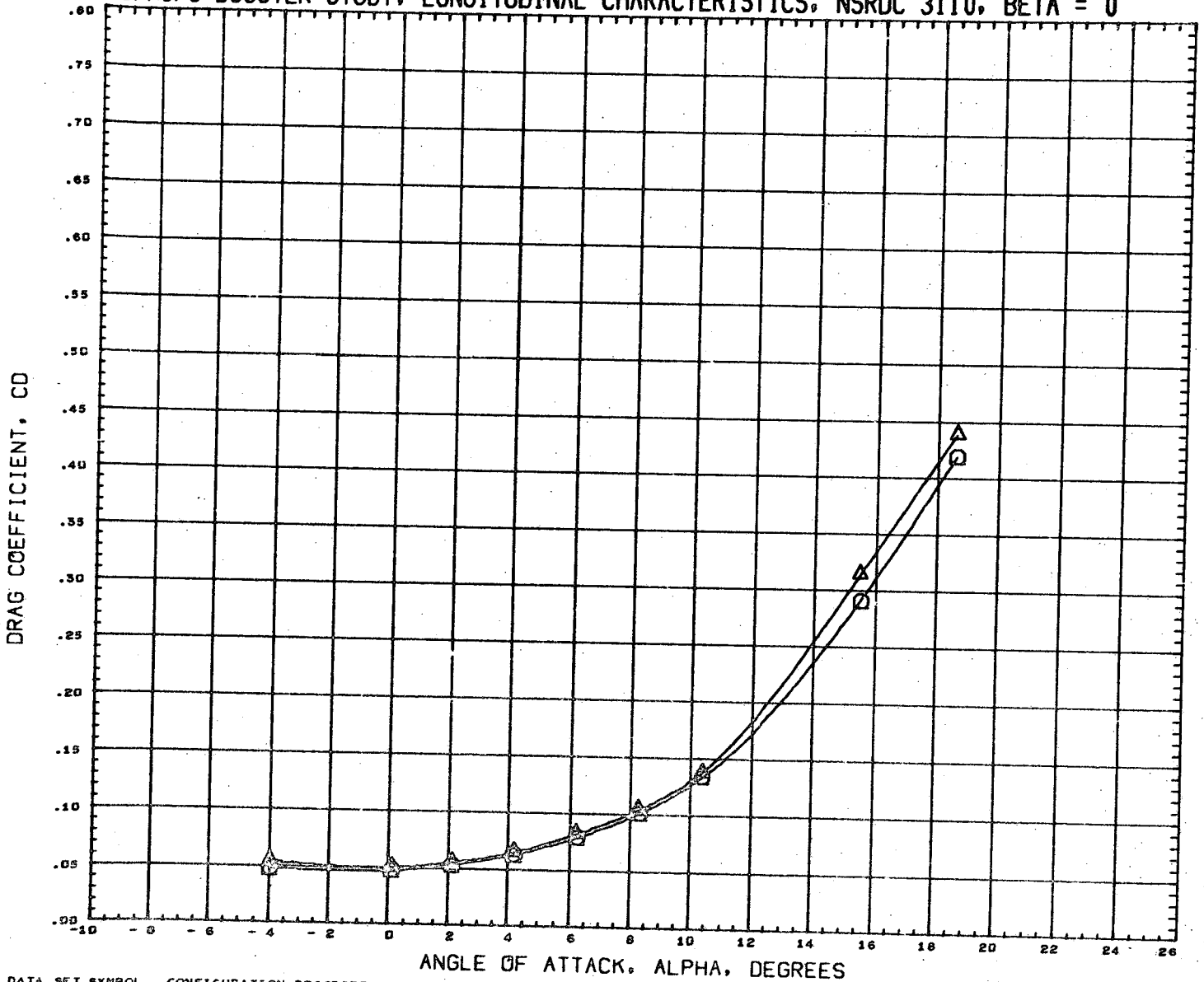
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC 3.000
CNDPOS 1.000
INCIDW 0.000
WNGPOS 2.000

REFERENCE INFORMATION
SREF 1.3550 SQ.FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XHRP 31.1400 INCHES
YHRP 0.0000 INCHES
ZHRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.380

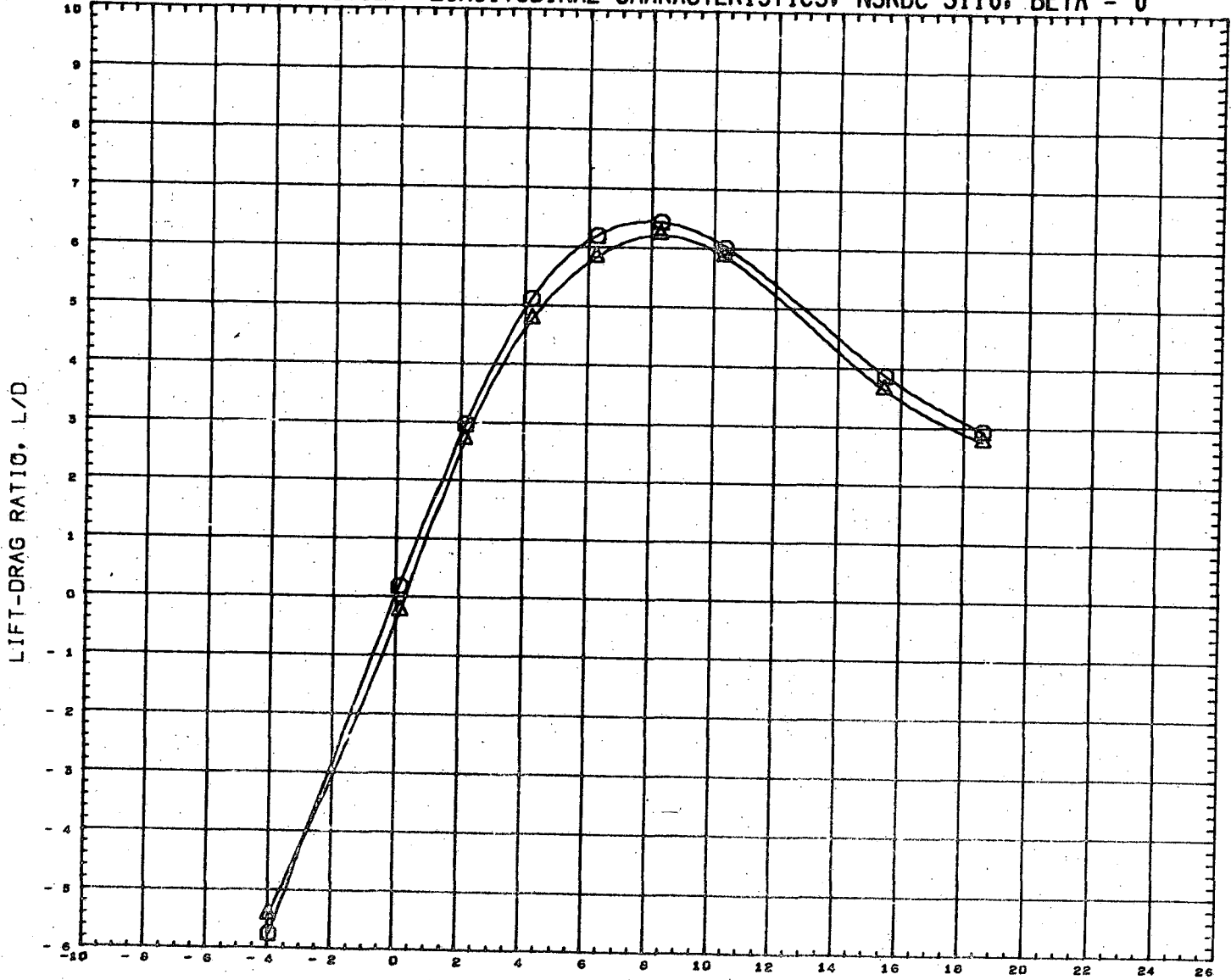
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2081)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2145)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

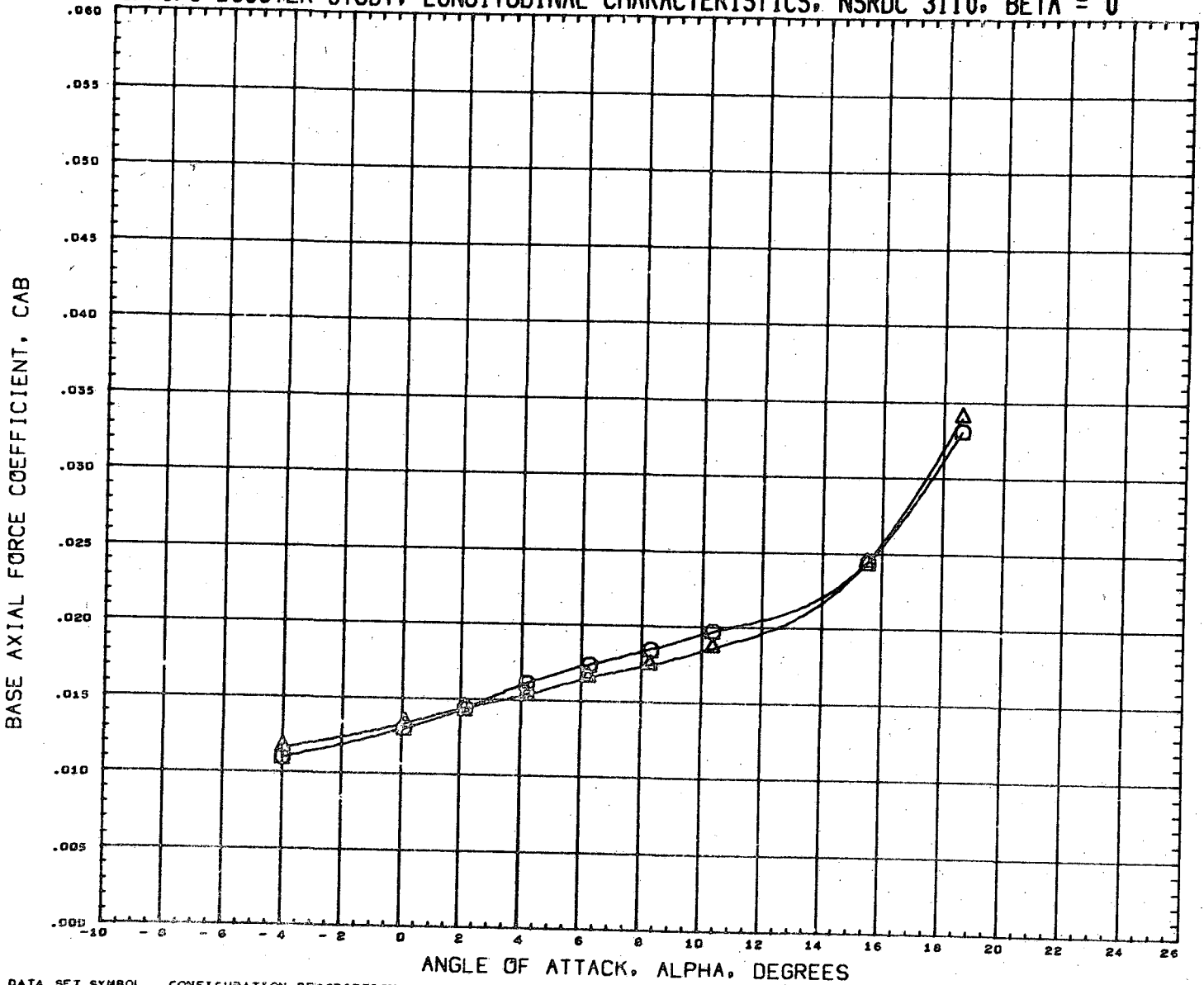
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCICW	WNGPOS	REFERENCE INFORMATION
(RN2081)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2145)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2081)
(RN2145)



CONFIGURATION DESCRIPTION
NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V1

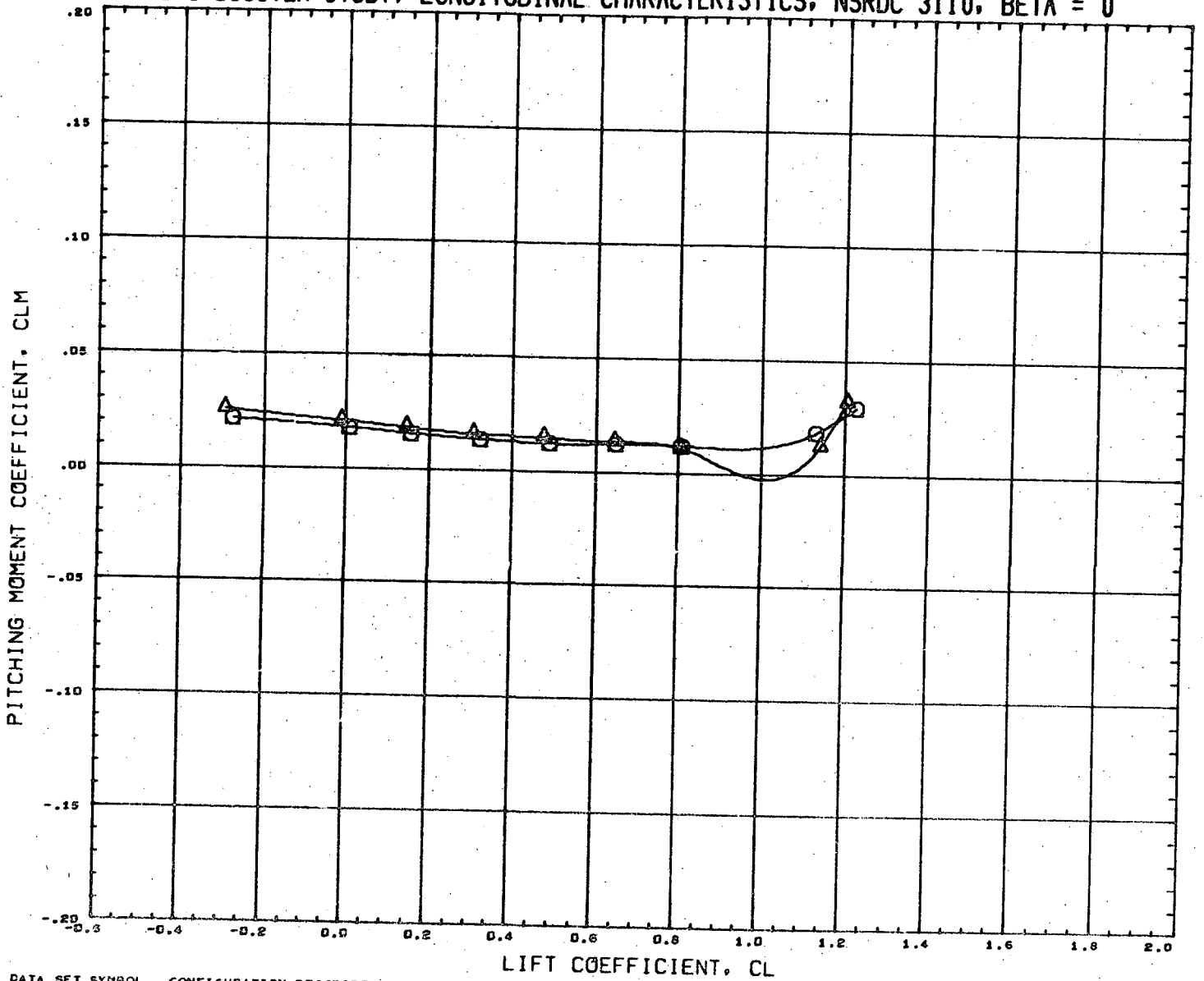
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	2.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

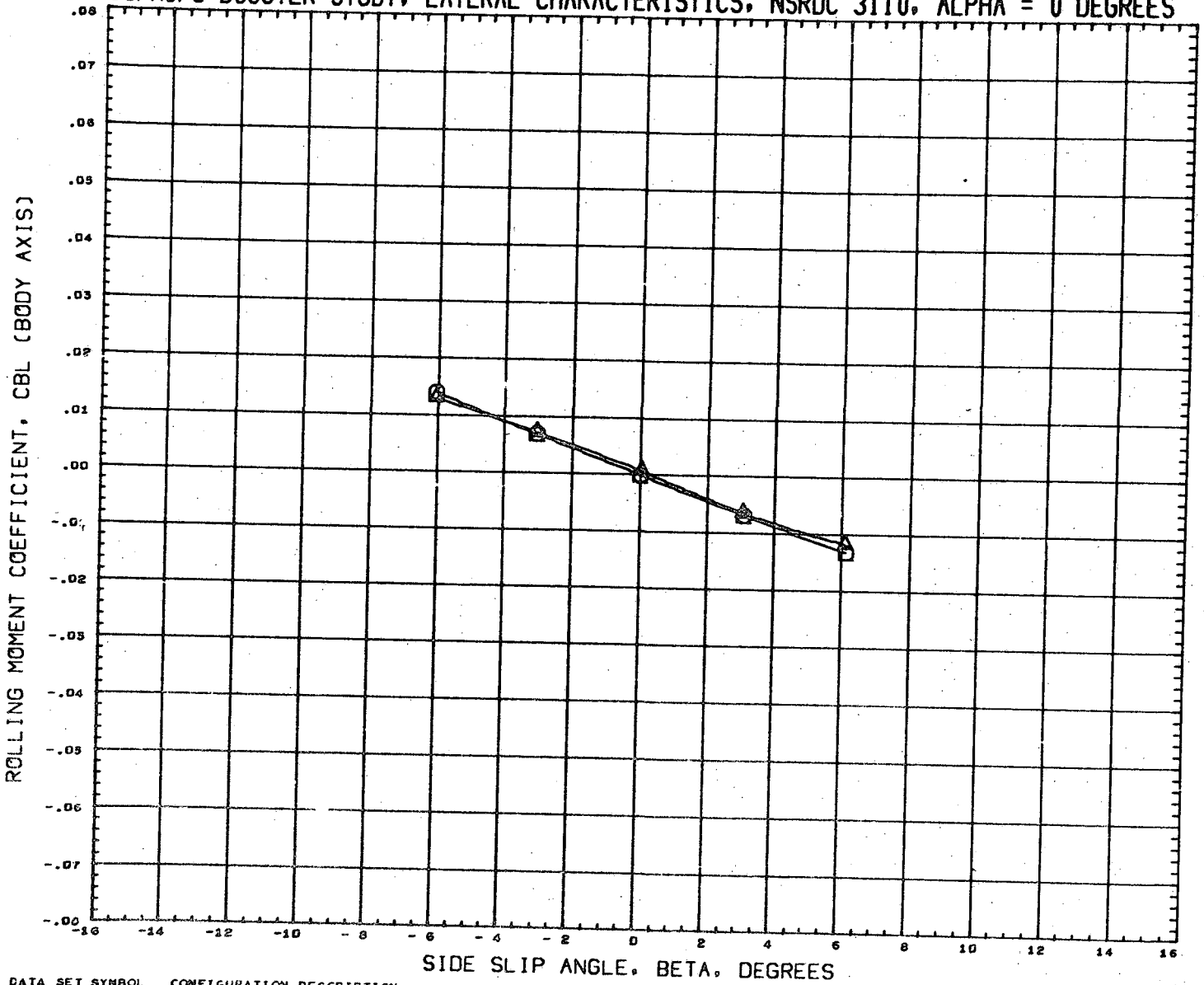


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2001)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2145)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

70

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2002)
(RN2146)



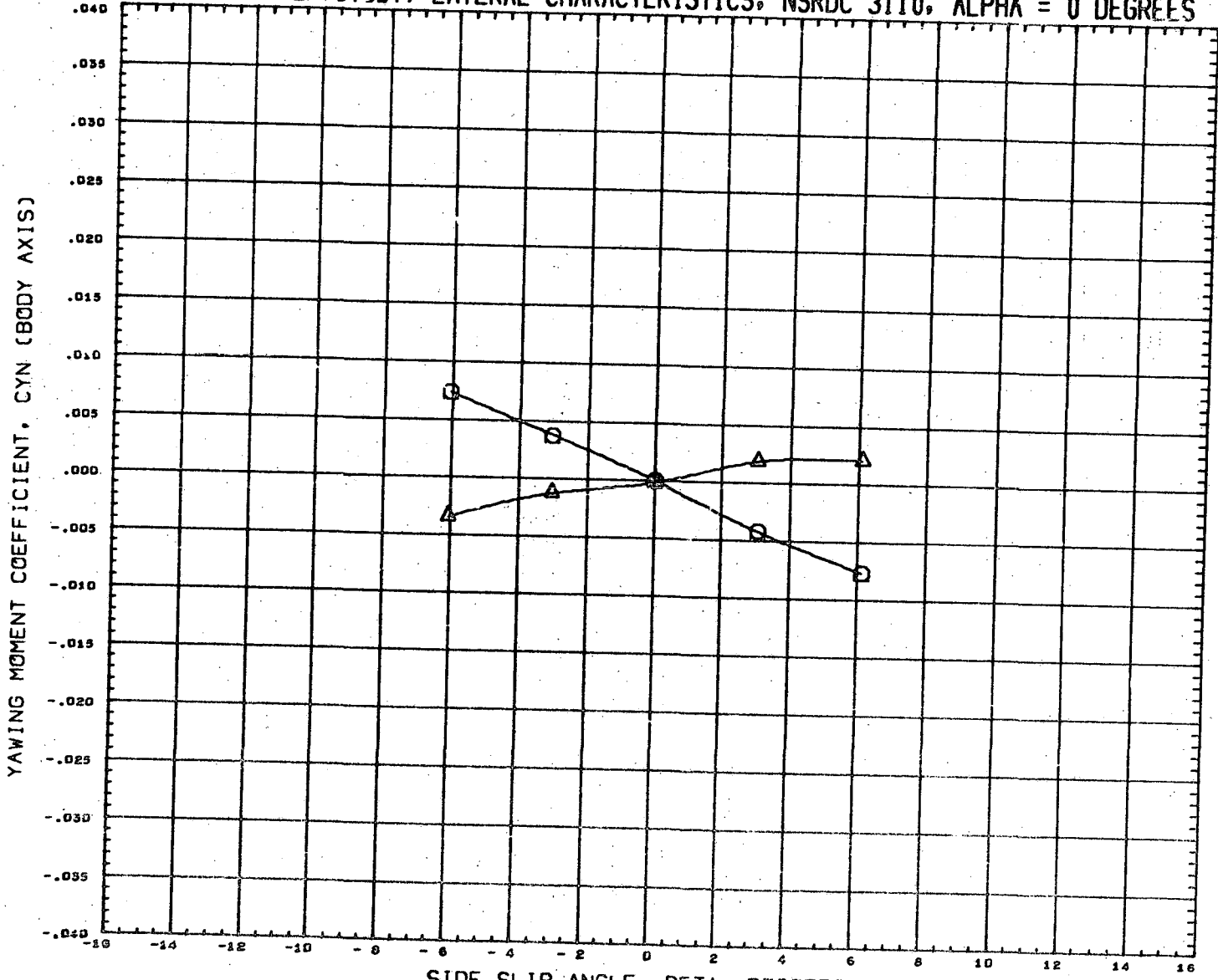
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	2.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION
SREF 1.3550 SQ.FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCNT

MACH 0.380

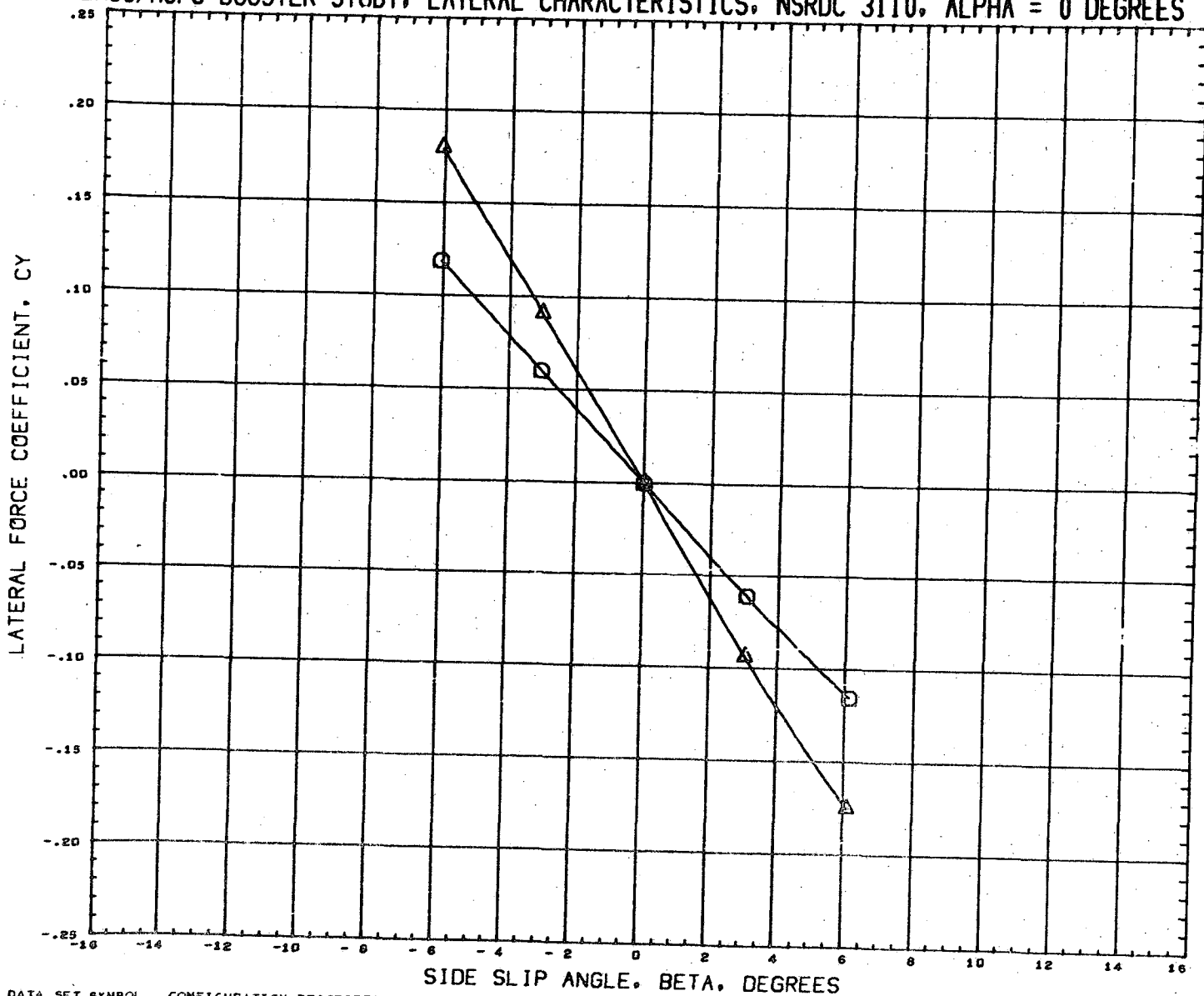
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2082)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2146)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	2.000	LKEF 41.4360 INCHES
						BREF 41.4360 INCHES
						XHRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

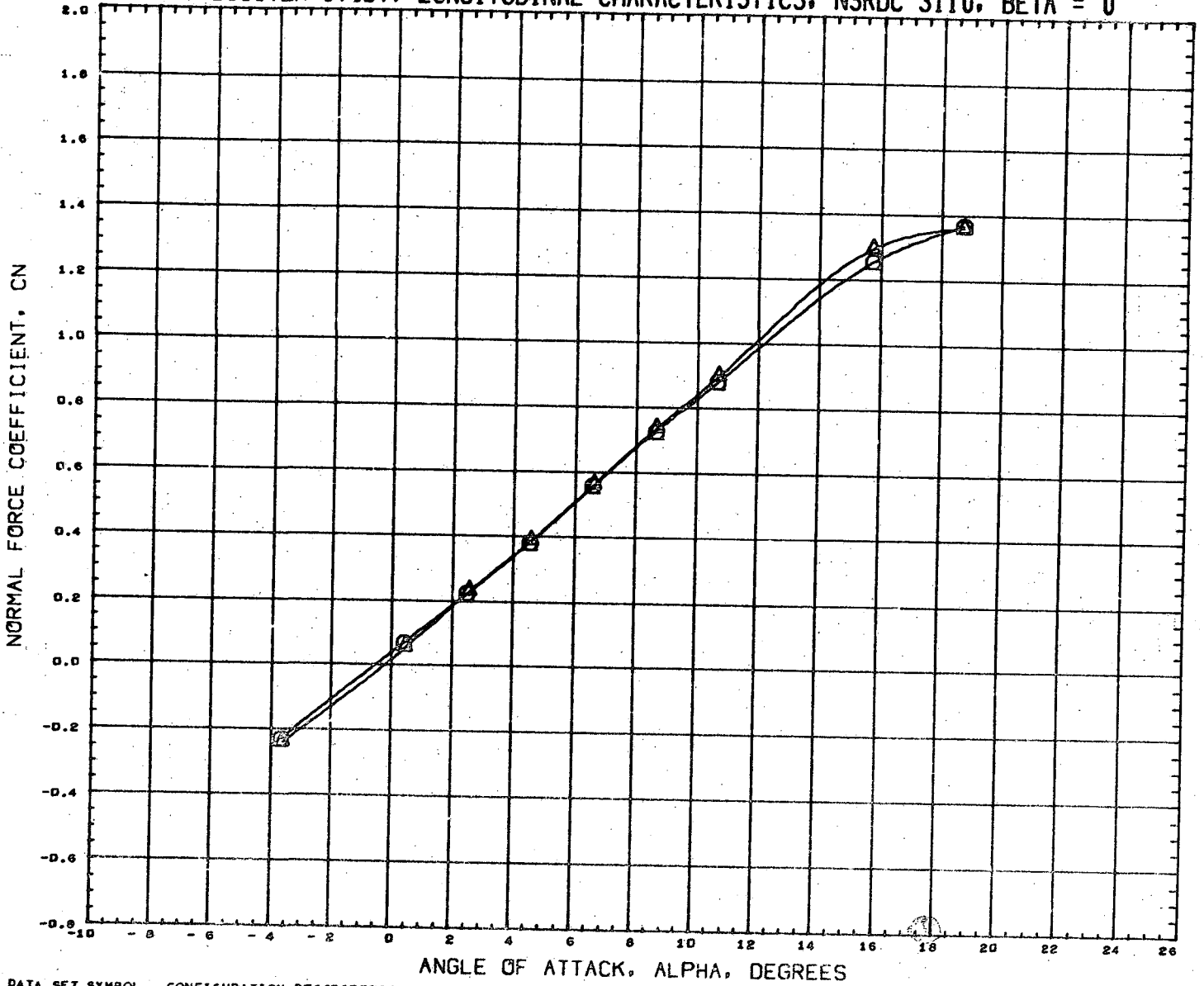
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2082)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2146)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2085)
(RN2149)

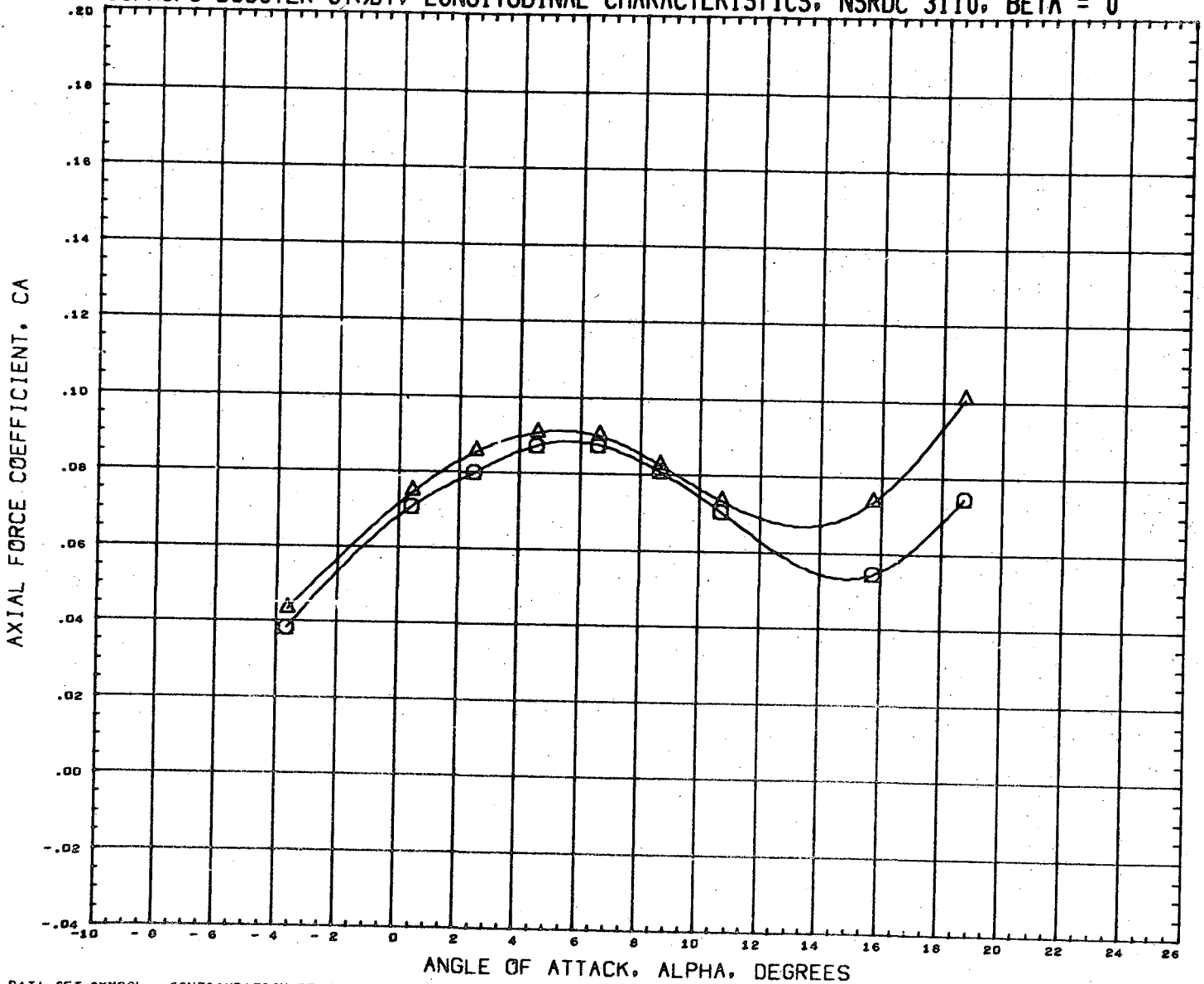
CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SR.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

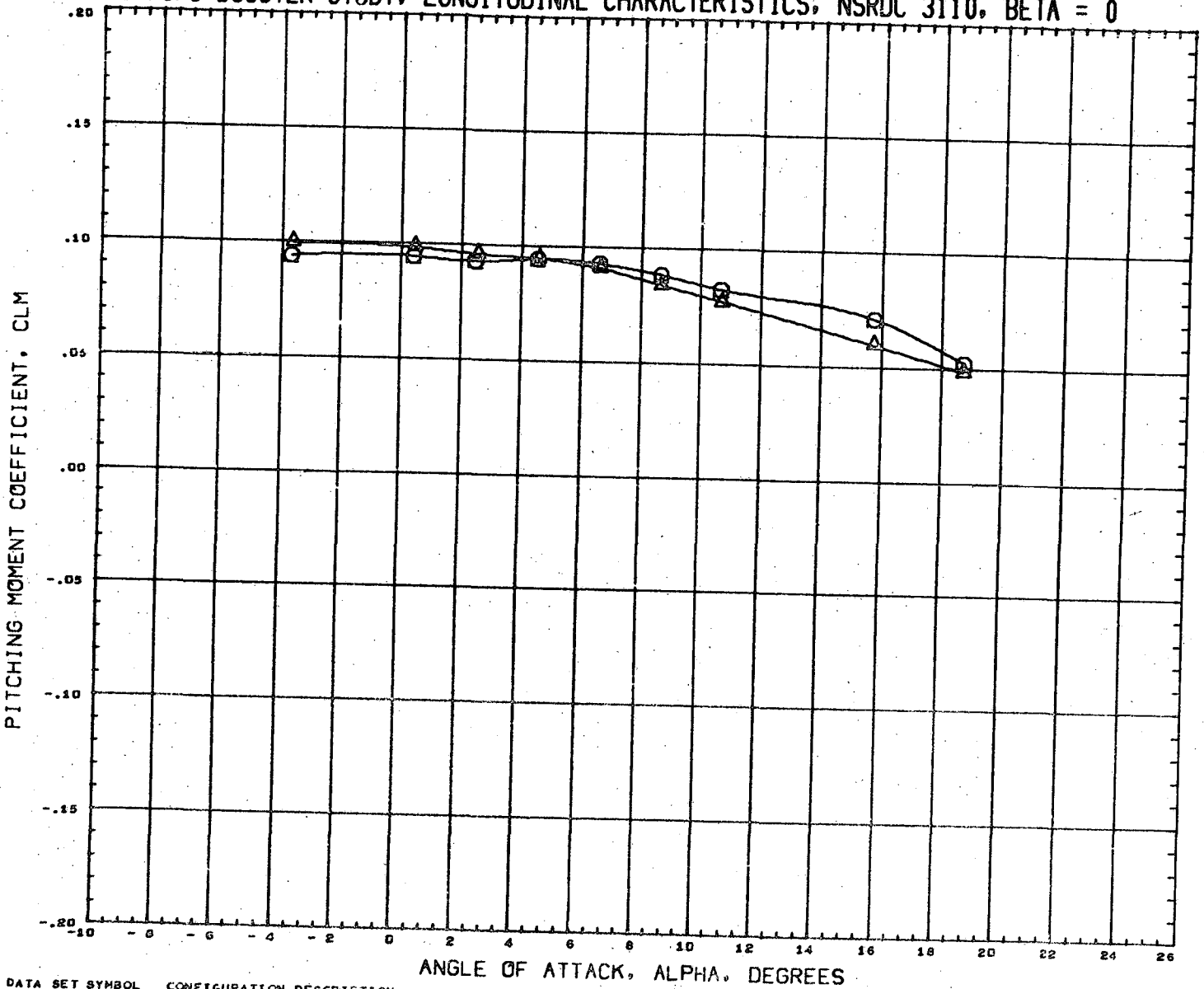
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2085)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2149)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.361

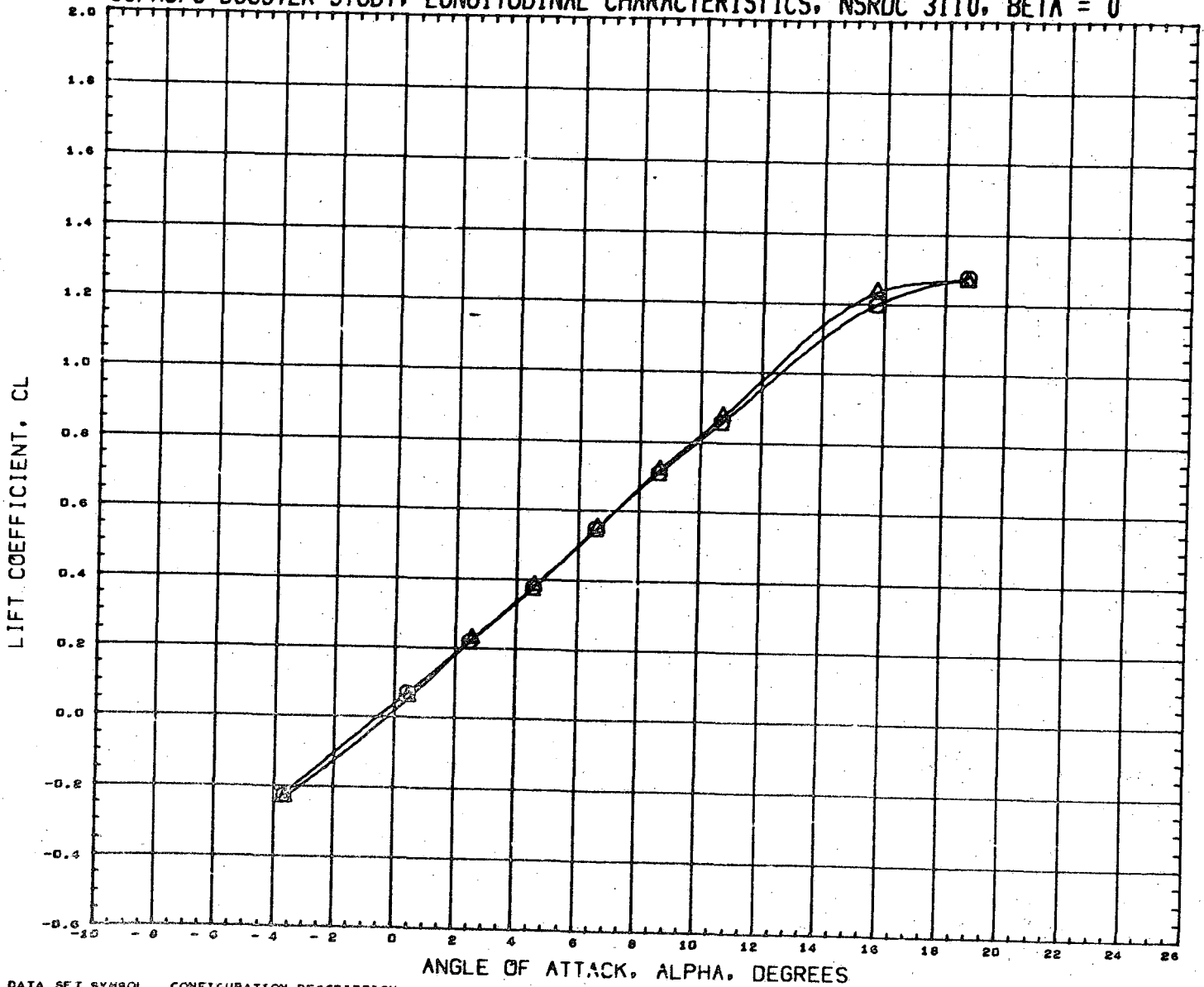
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2085)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 90.FT.
(RN2149)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2085) \square
 (RN2149) \triangle

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1
 NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1

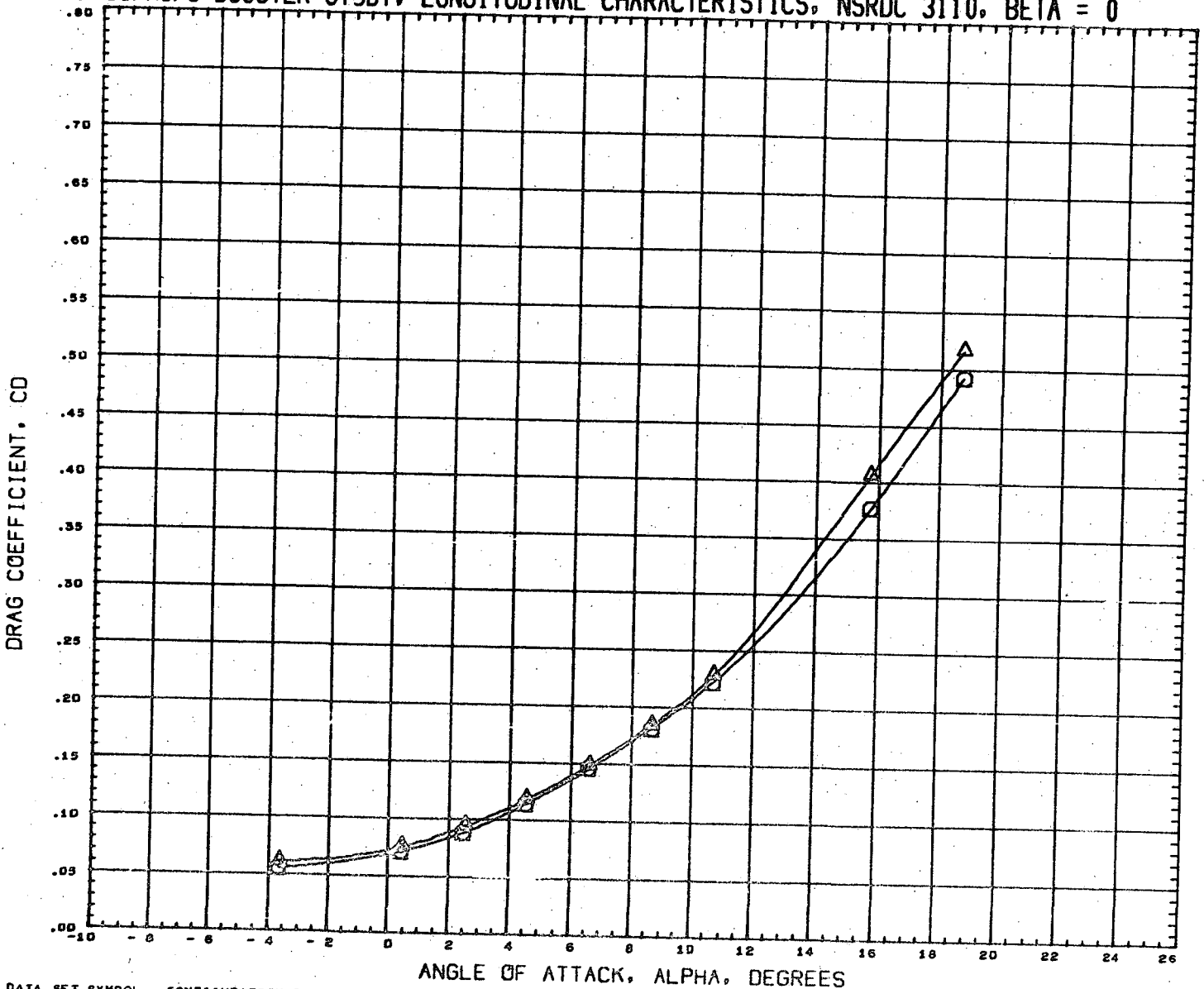
INCIDC	CNCPOS	INCIDW	WNGPOS
15.000	1.000	0.000	2.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.361

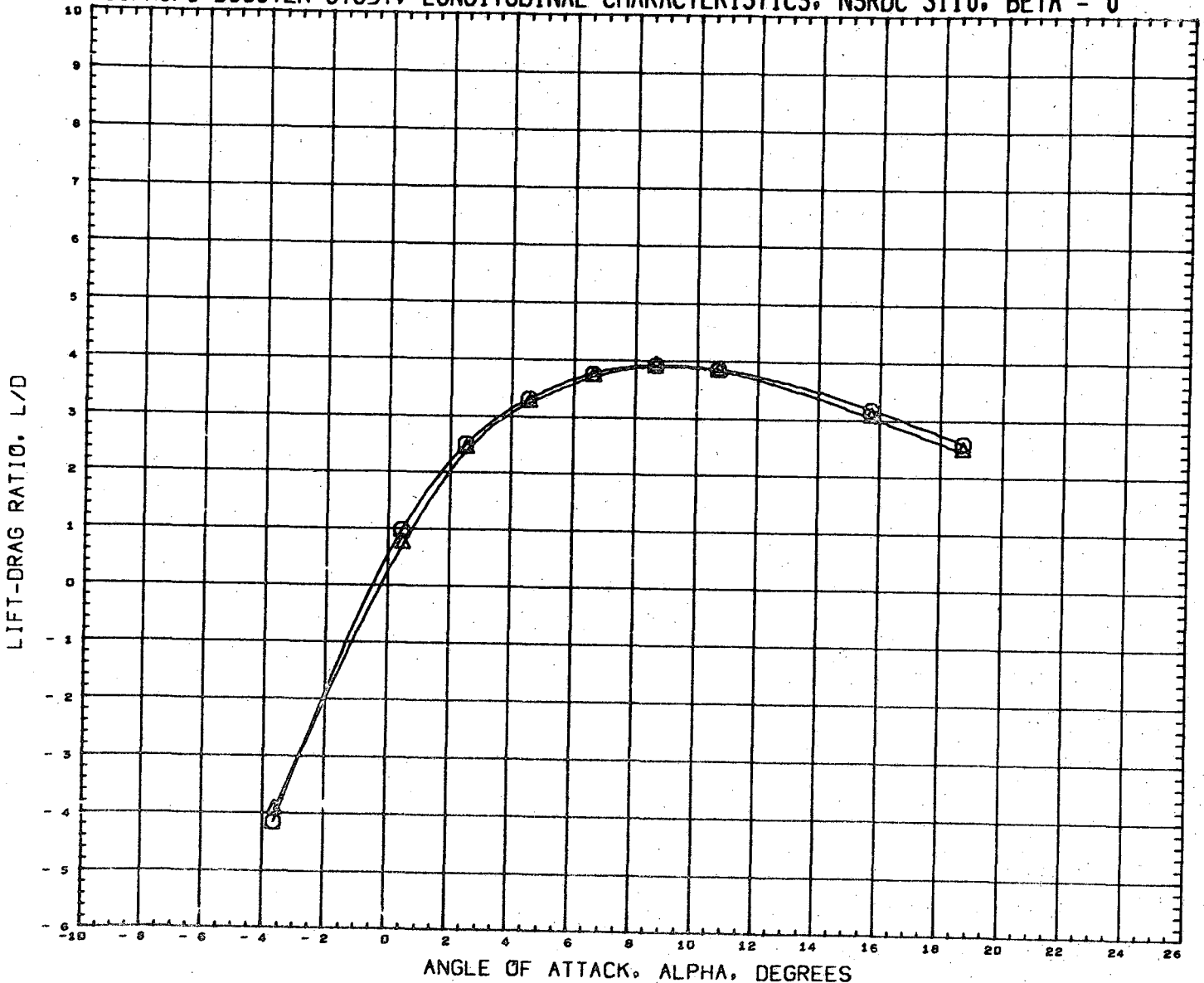
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2085)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2149)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

HACH 0.361

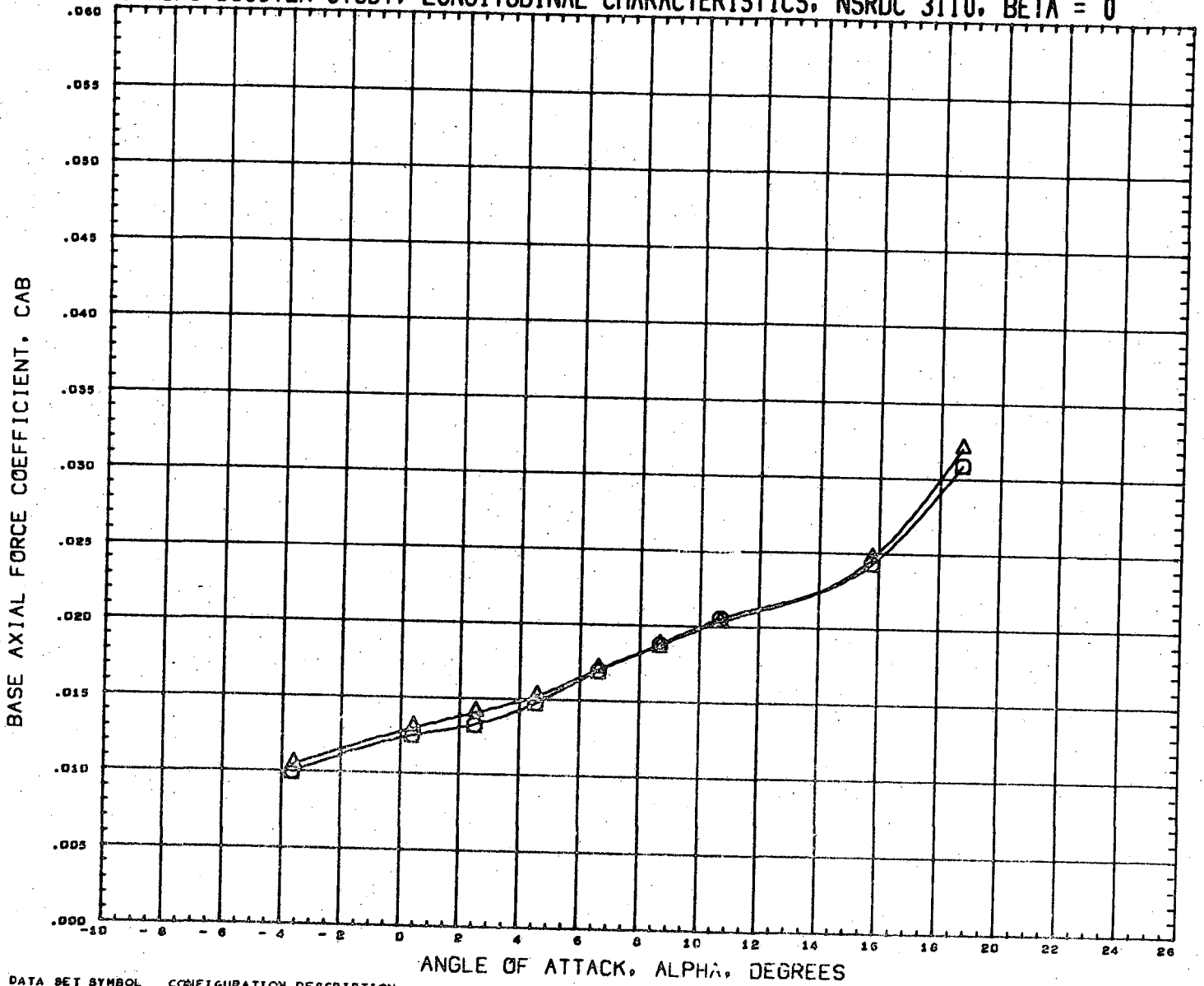
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2085)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2149)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.361

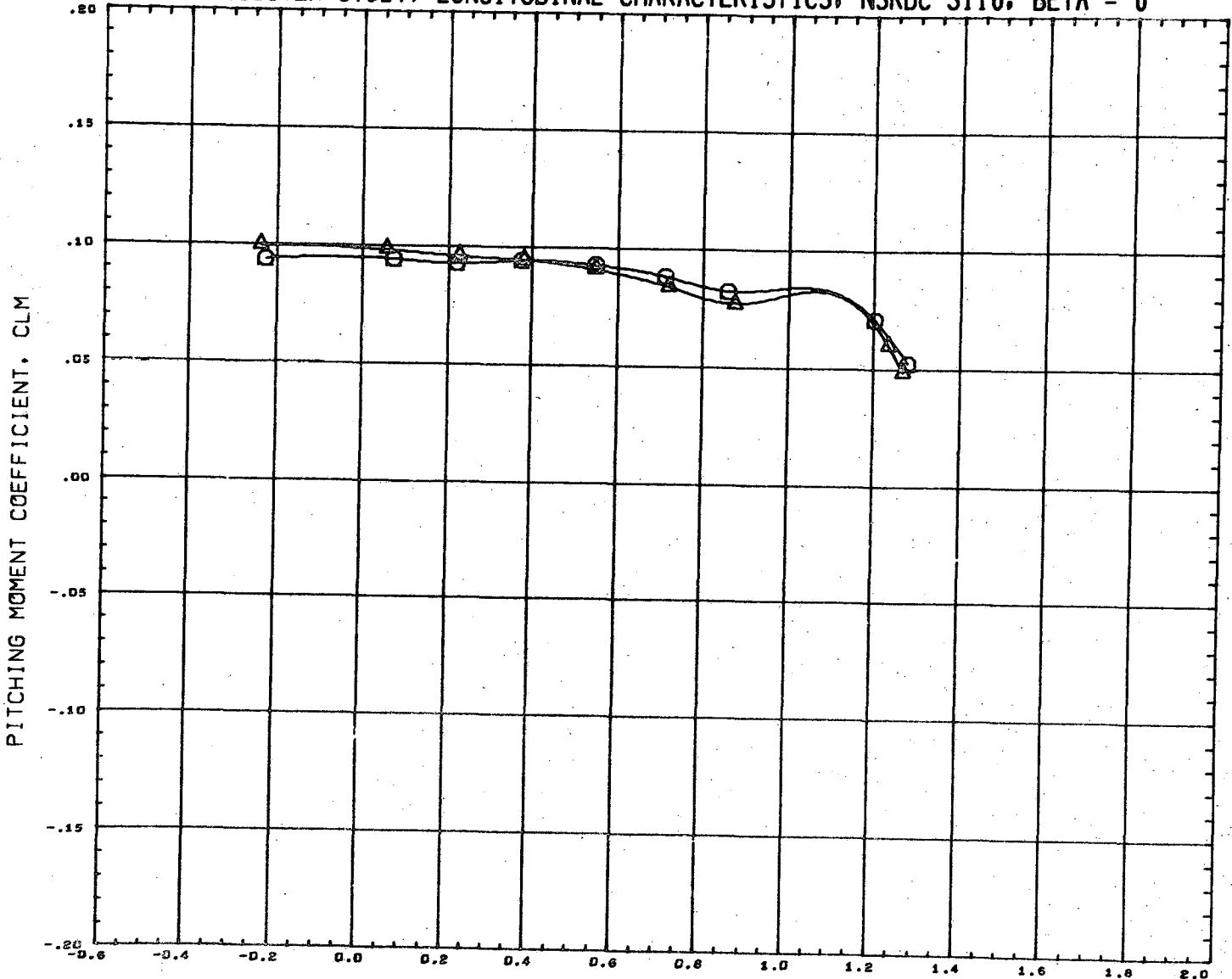
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2085)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2149)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.581

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

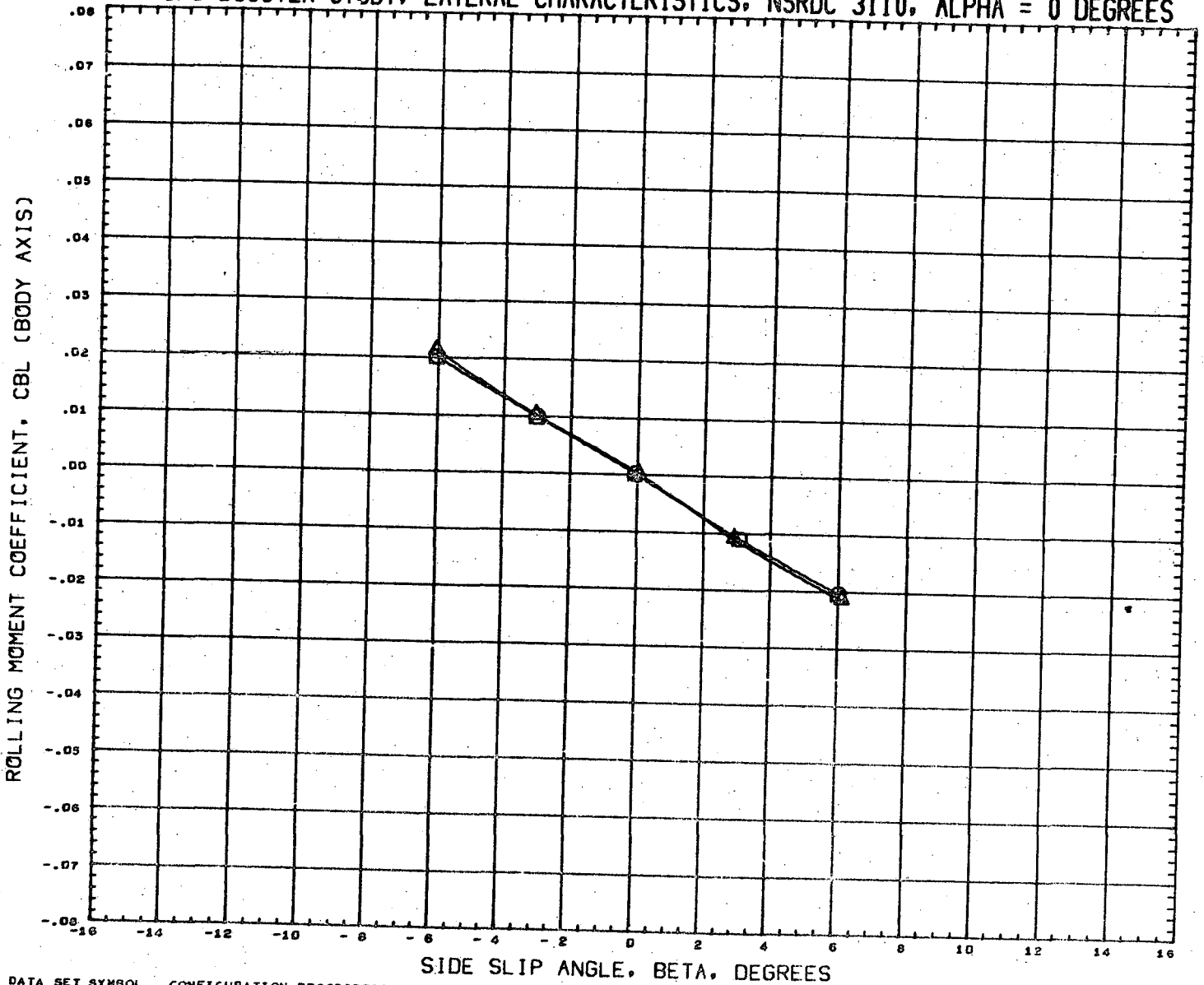


LIFT COEFFICIENT, CL

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2085)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2149)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

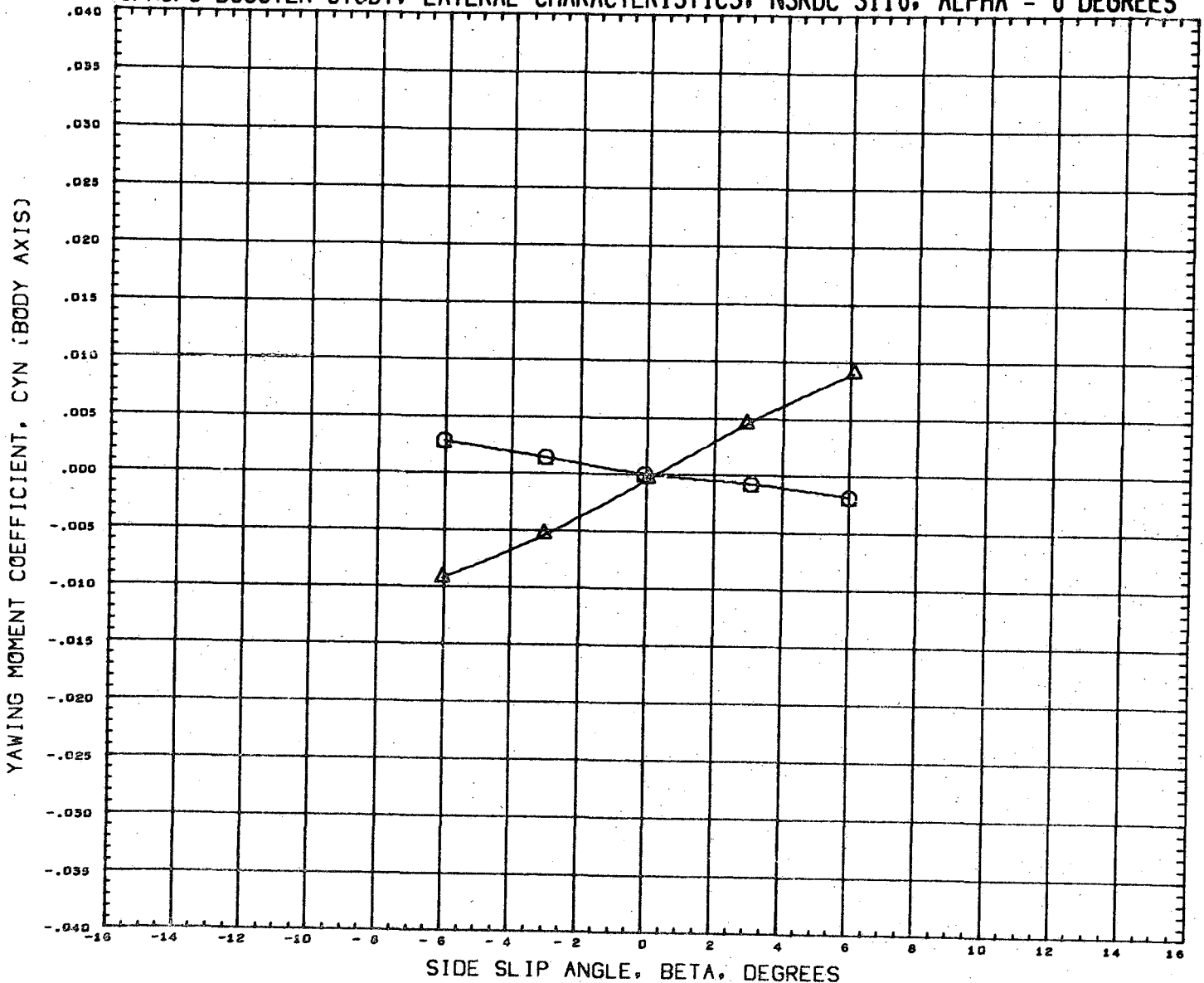
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2086)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2150)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4380 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

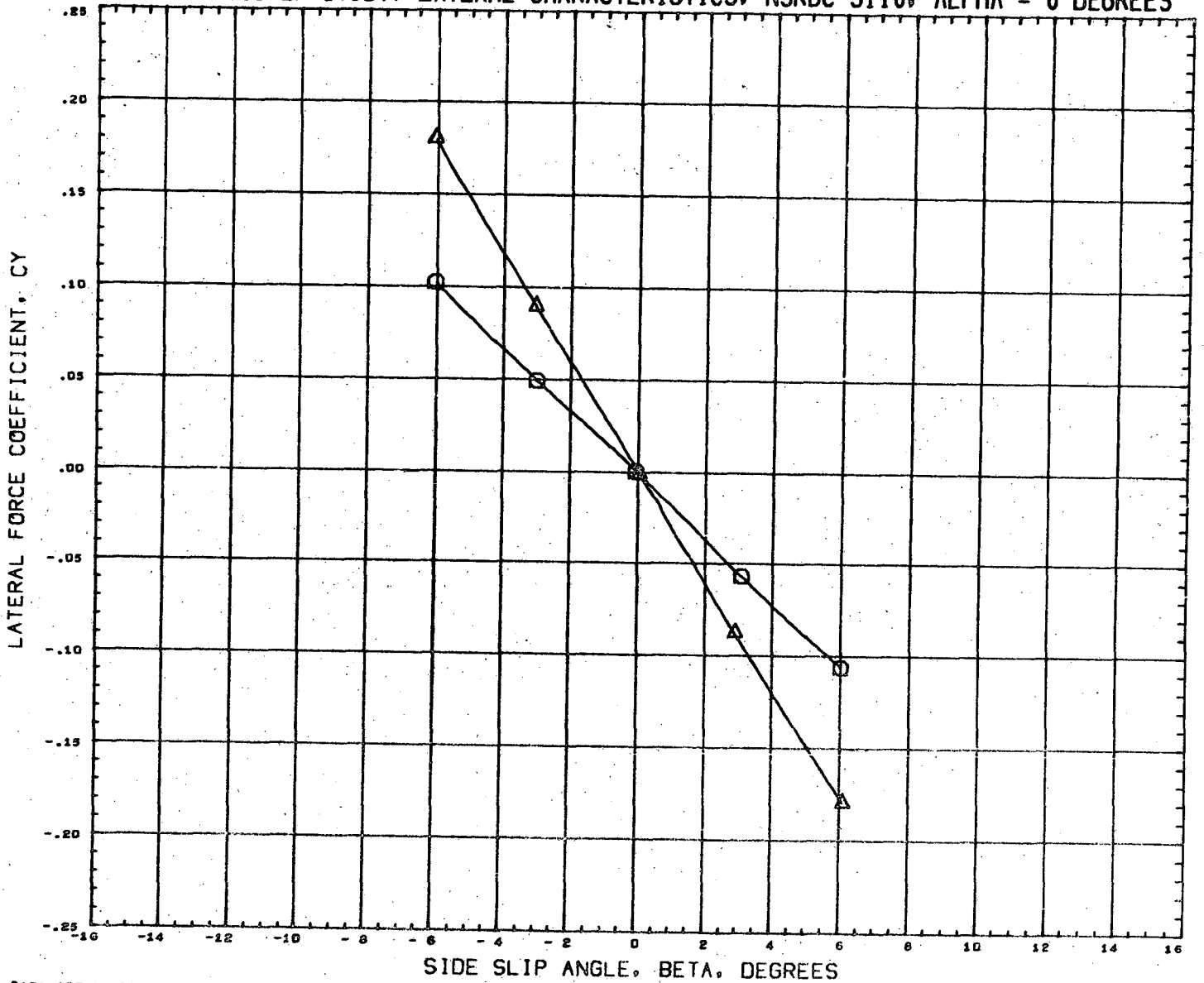
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2085)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2150)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

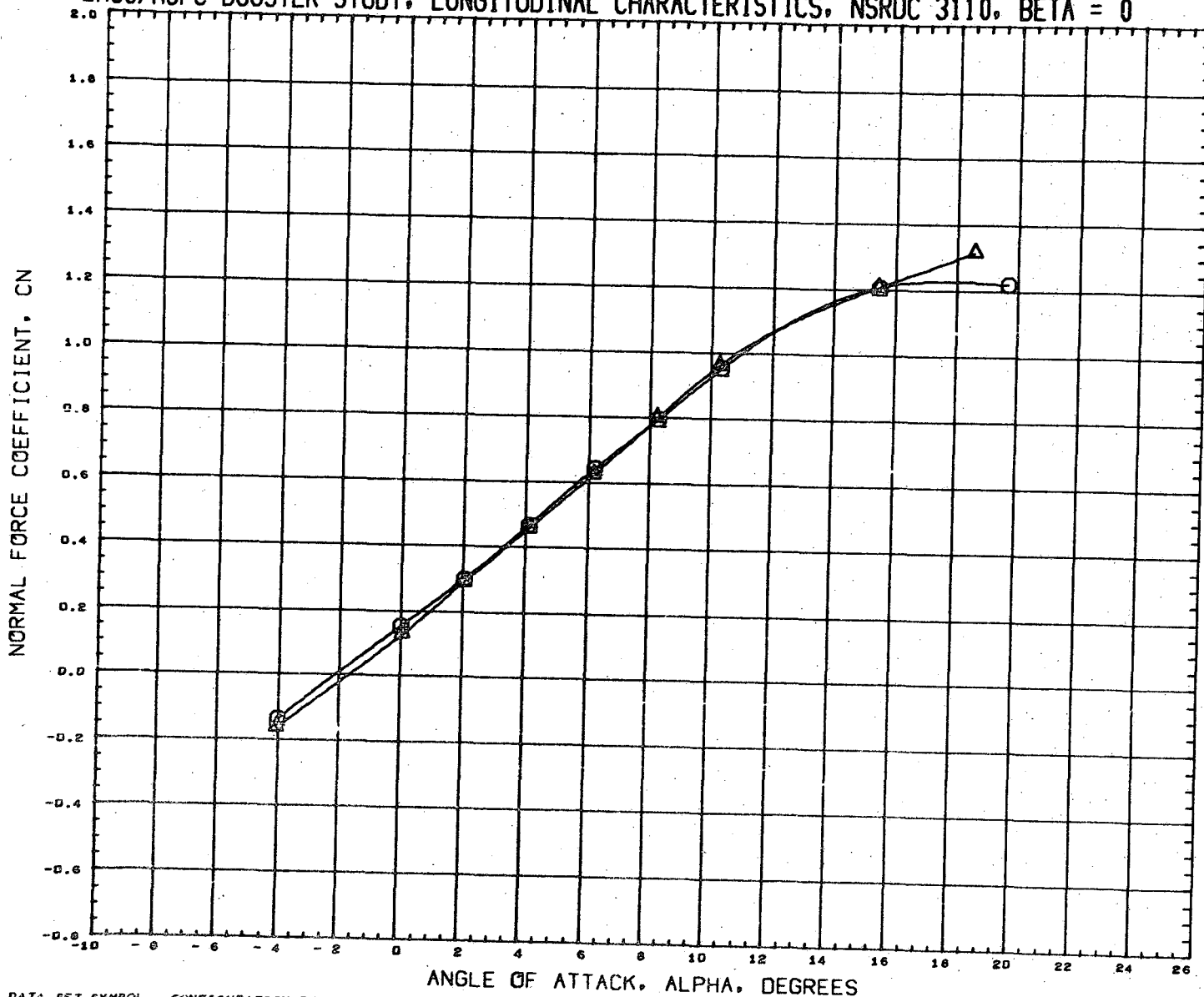
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2086)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2150)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

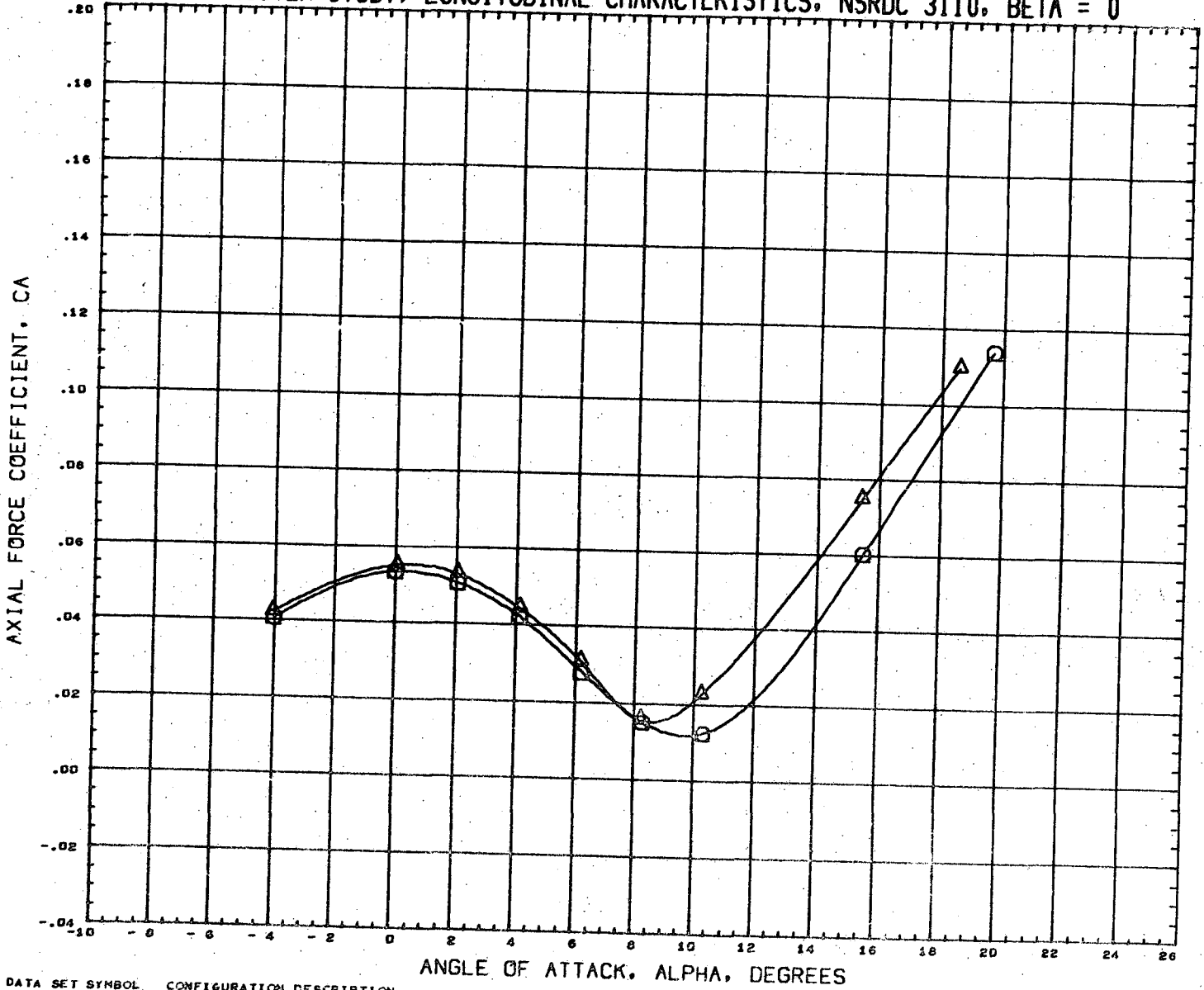


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2113)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2177)	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
3.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
				BREF 41.4360 INCHES
				XMRP 31.1400 INCHES
				YMRP 0.0000 INCHES
				ZMRP 0.2250 INCHES
				SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



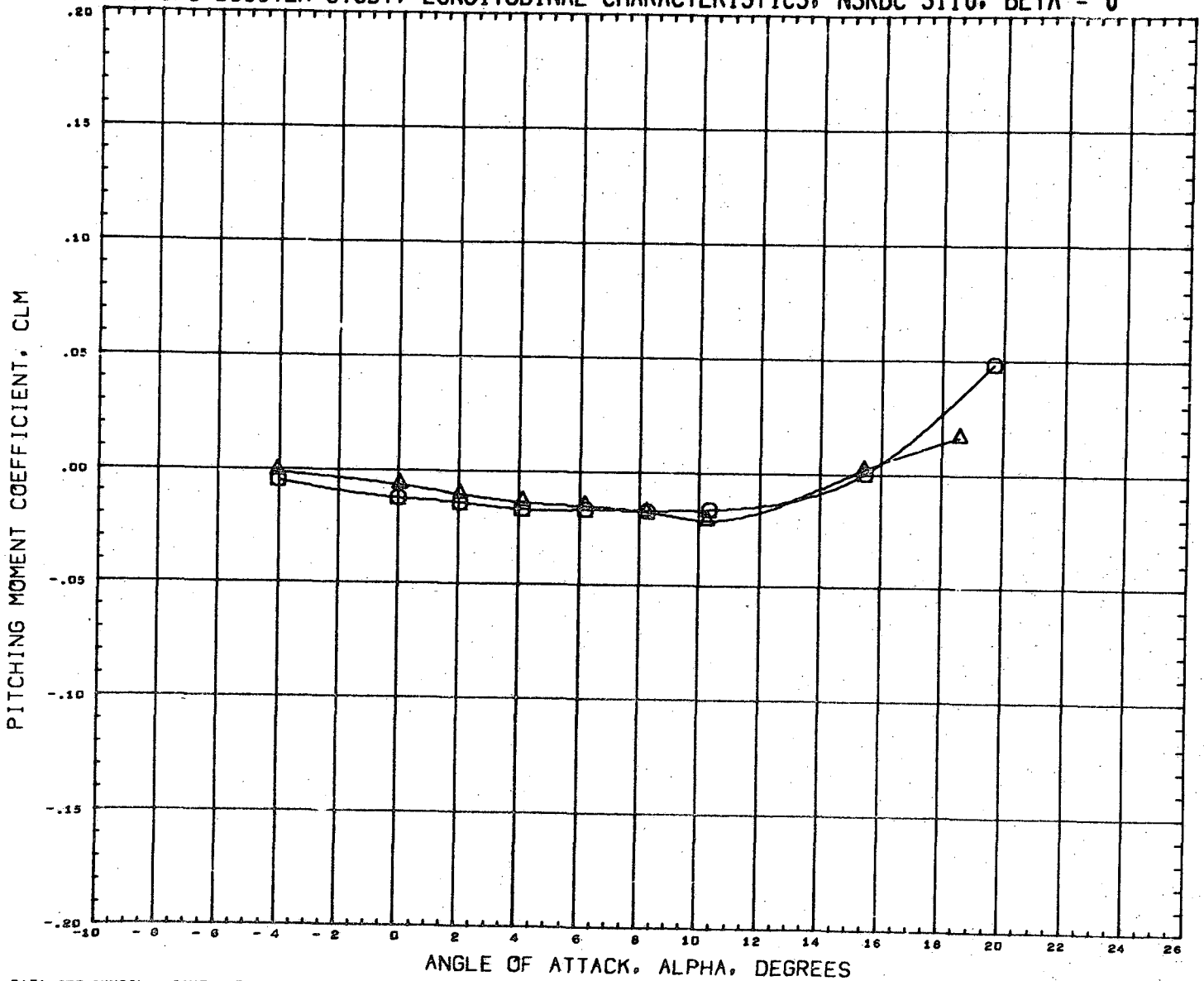
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2113) NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
 (RN2177) NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XNRP	31.1400	INCHES
YNRP	0.0000	INCHES
ZNRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.300

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



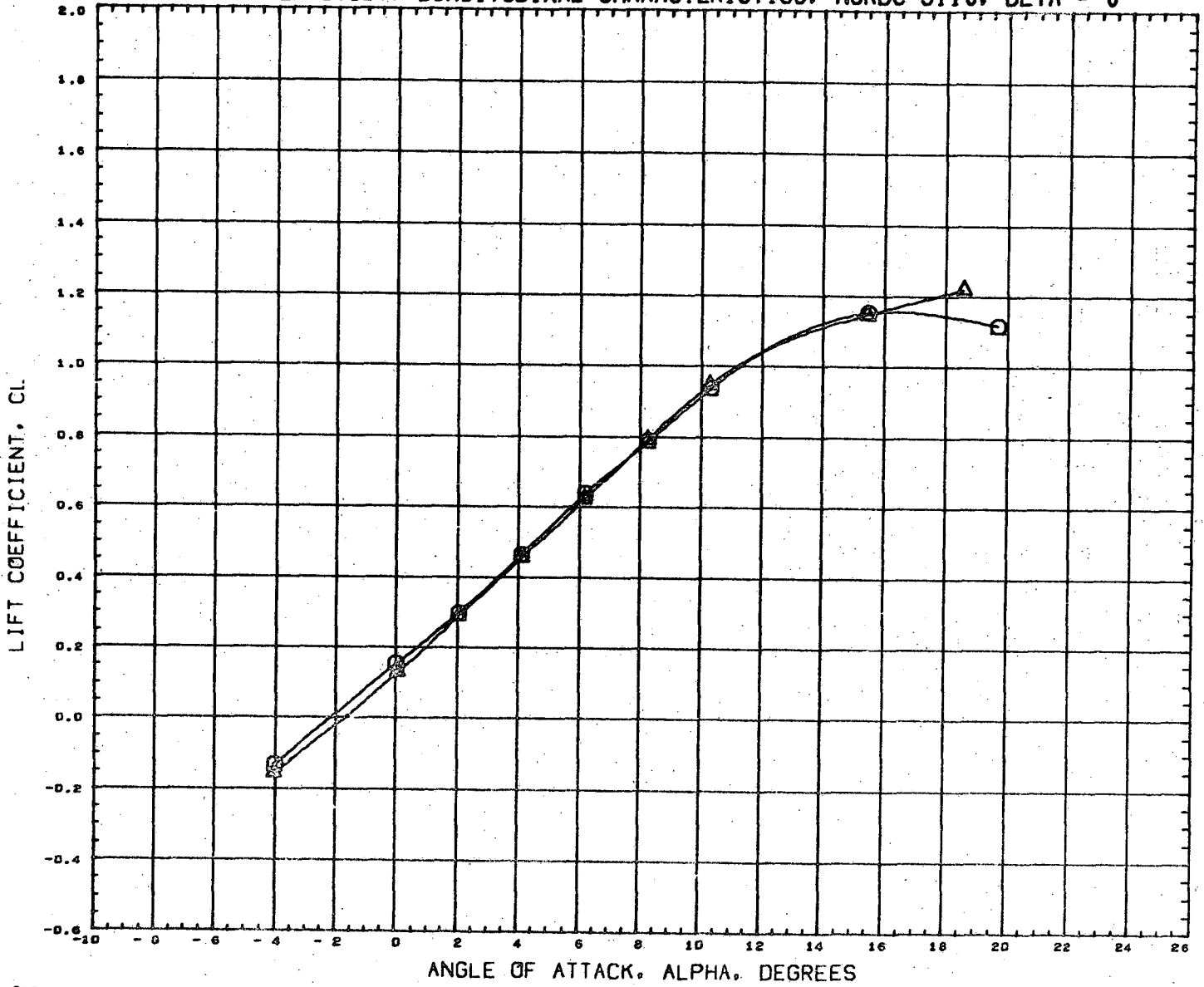
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2113) ○ NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
 (RN2177) △ NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC CNDPOS INCIDW WNGPOS
 3.000 1.000 3.000 2.000
 3.000 1.000 3.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ.FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XNRP 31.1400 INCHES
 YNRP 0.0000 INCHES
 ZNRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



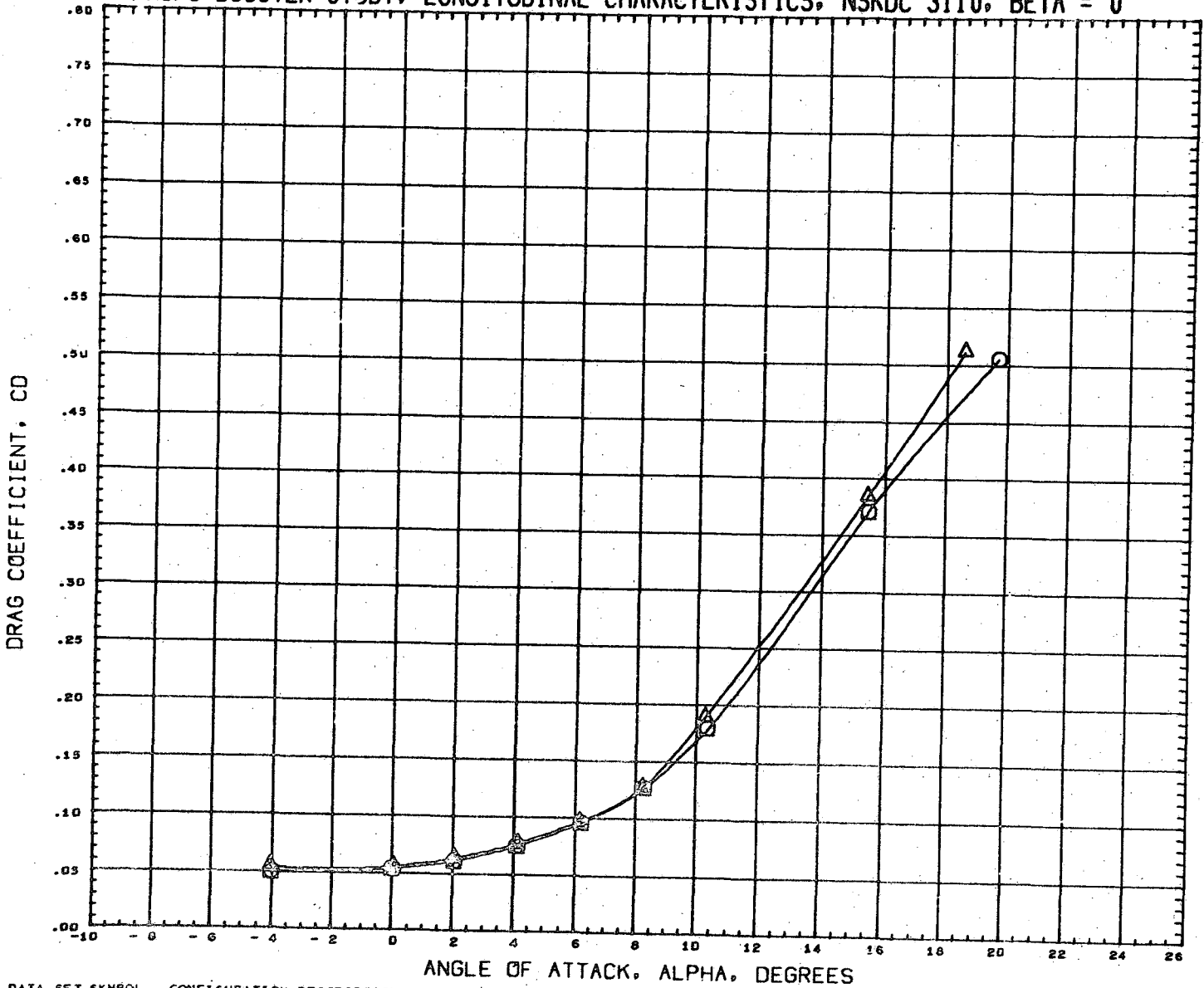
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2113)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1
(RN2177)	NSRDC 3110 MSFC/LHSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



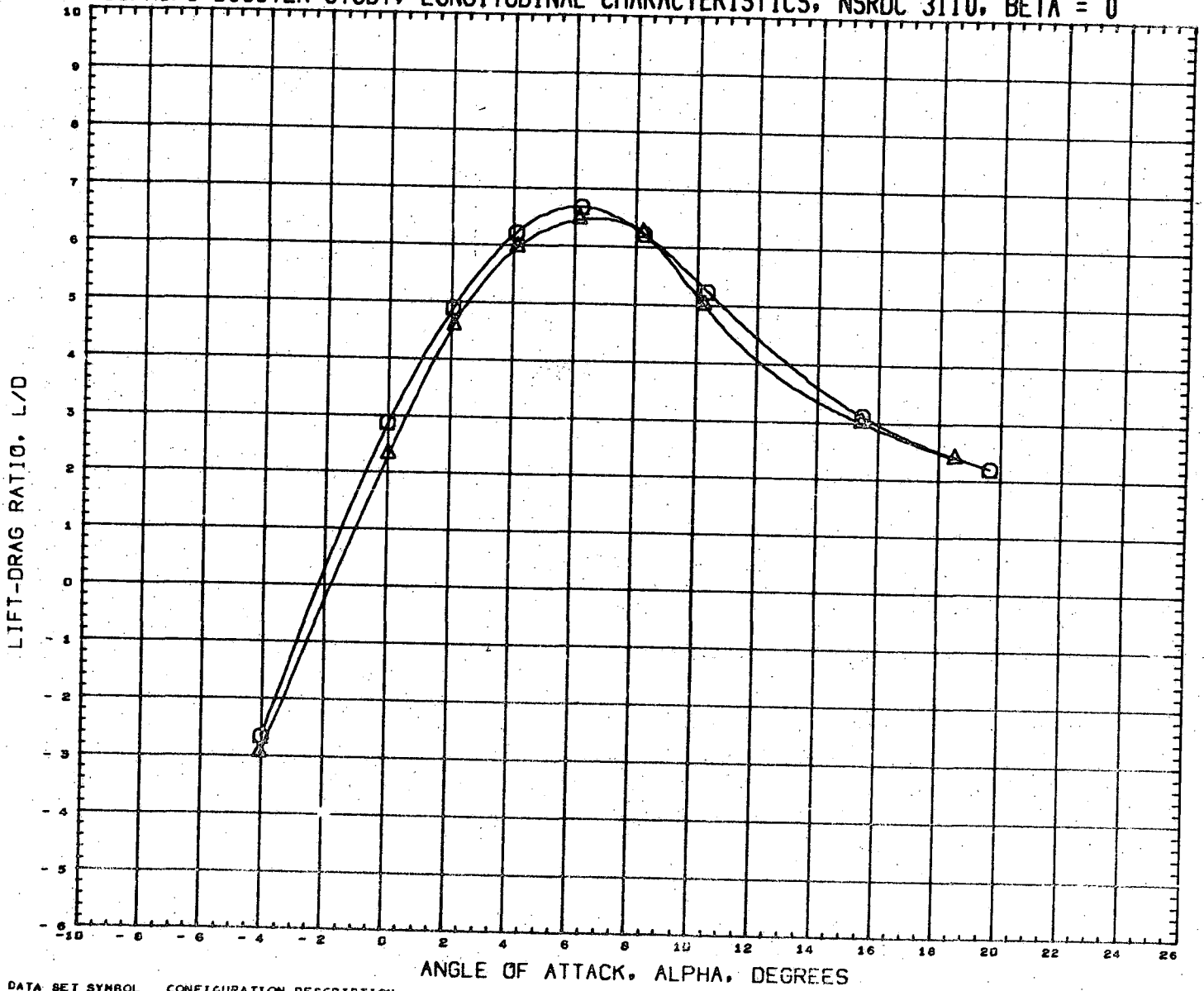
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2113) ○	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2177) △	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

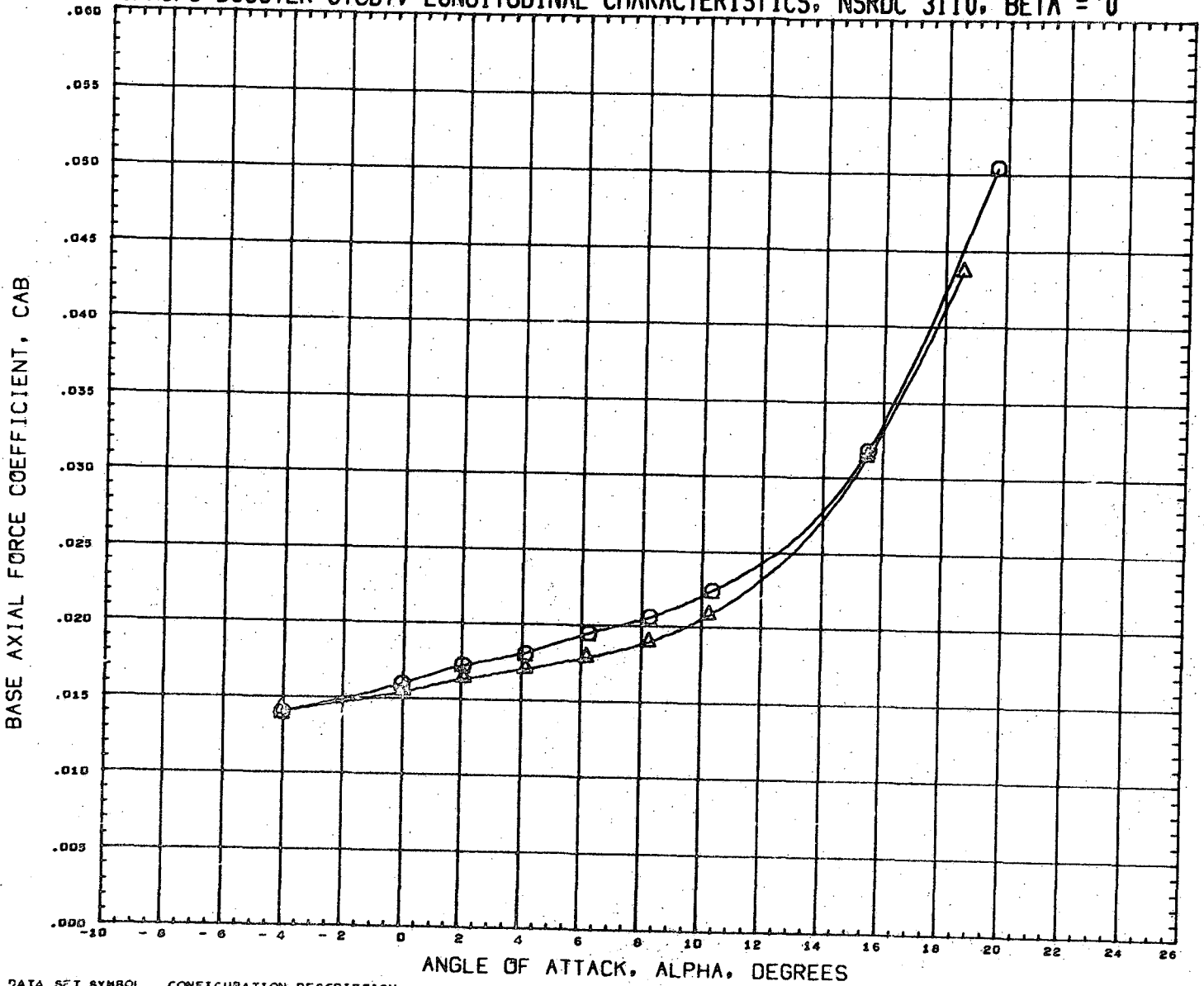
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2113)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000	SREF	1.3550 SQ.FT.
(RN2177)	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



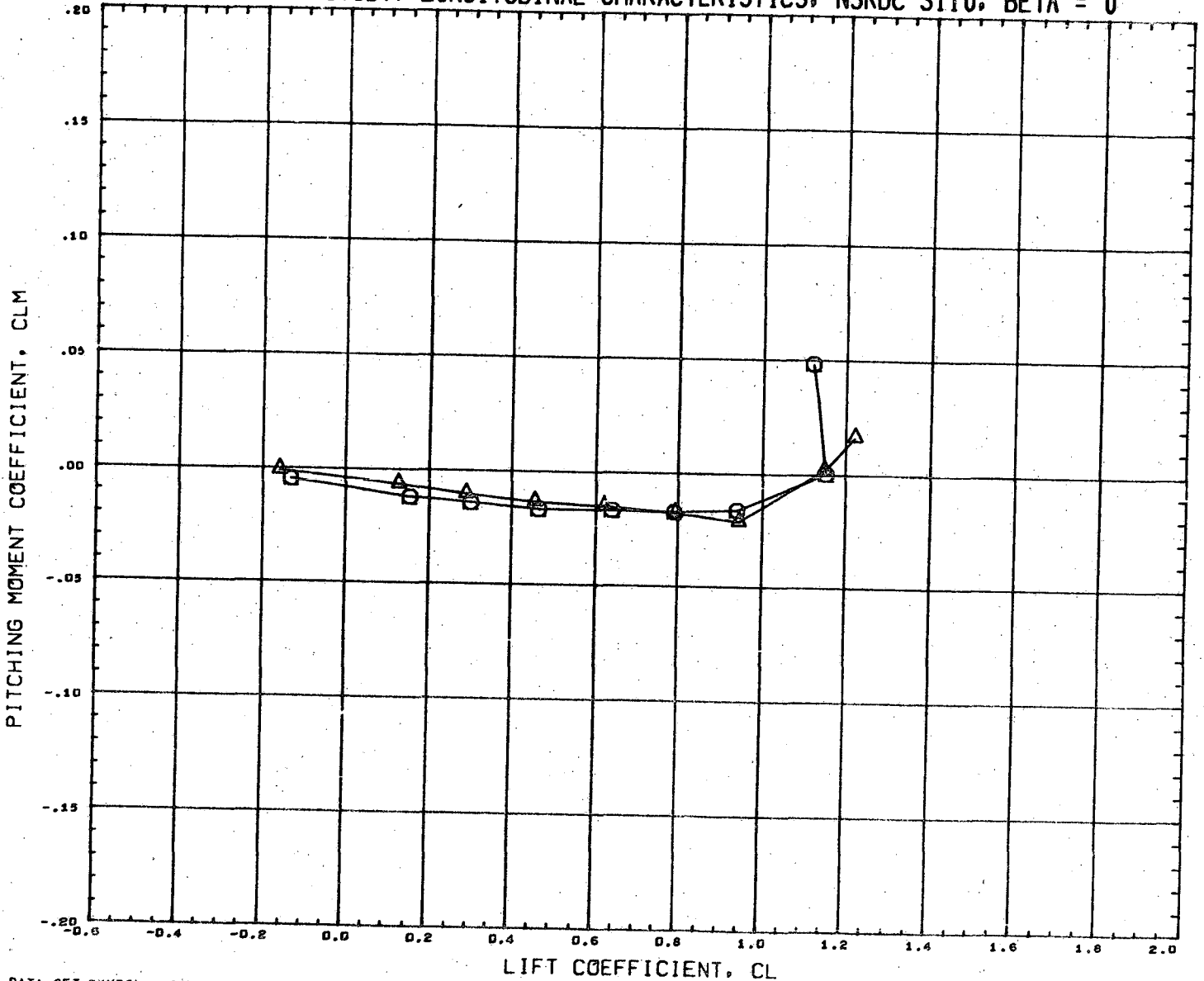
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2113)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2177)	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2230 INCHES
SCALE	1.5000 PERCENT

MACH 0.380

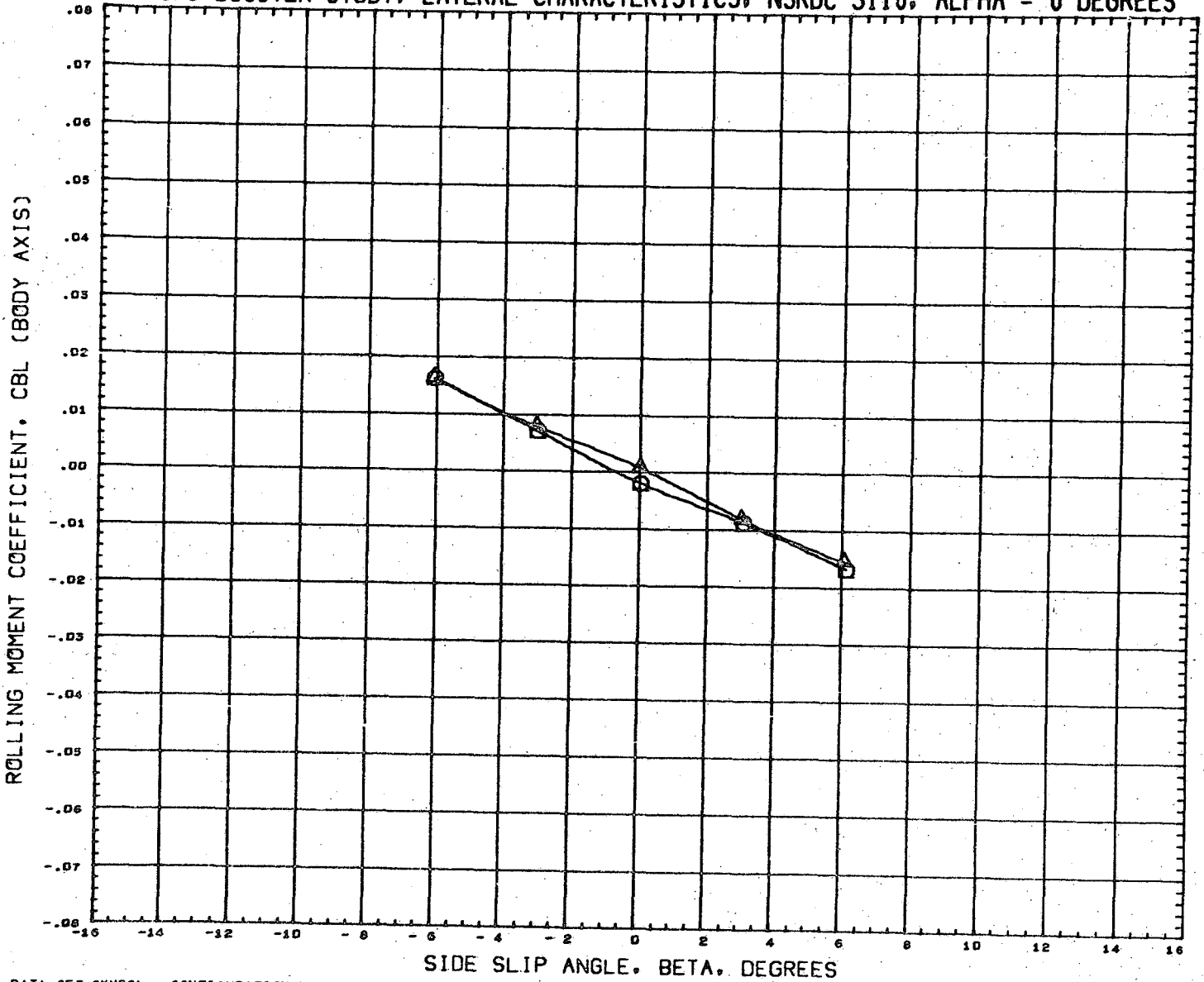
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2113)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2177)	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMNP 31.1400 INCHES
						YMNP 0.0000 INCHES
						ZMNP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.500

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
 (RN2114) □
 (RN2178) △

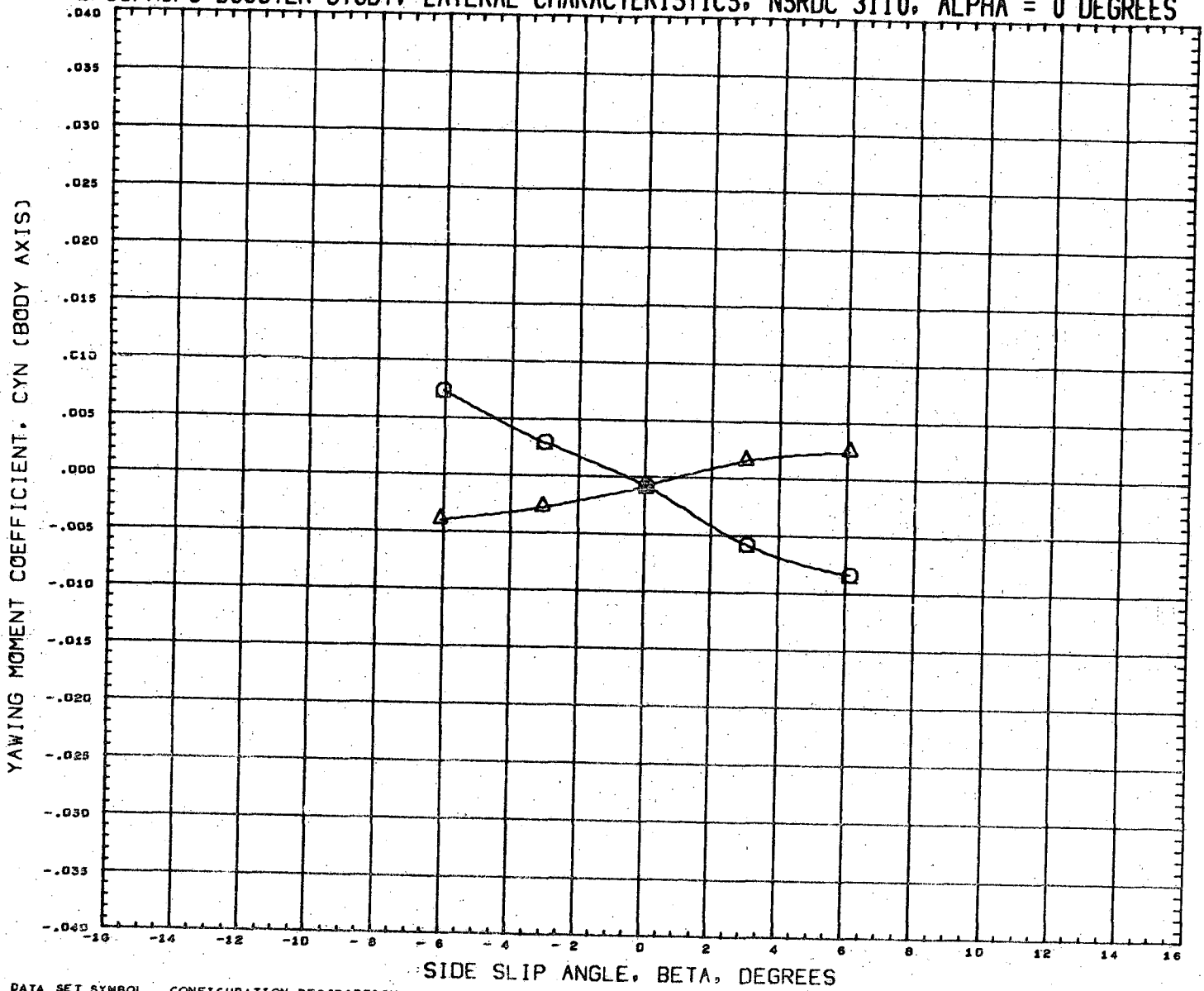
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1
 NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1

INCIDC CNDPOS INCIDW WNGPOS
 3.000 1.000 3.000 2.000
 3.000 1.000 3.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



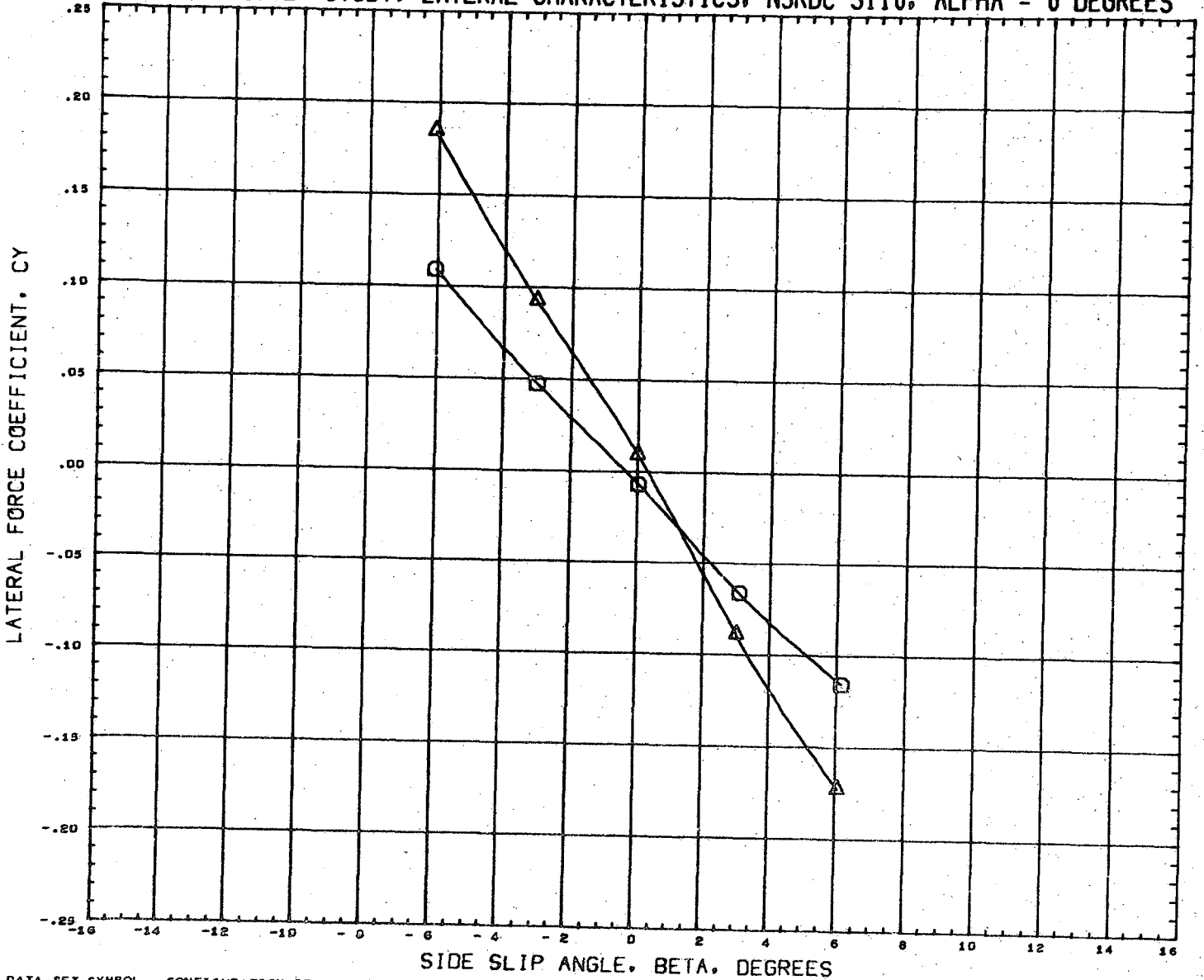
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2114)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2178)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



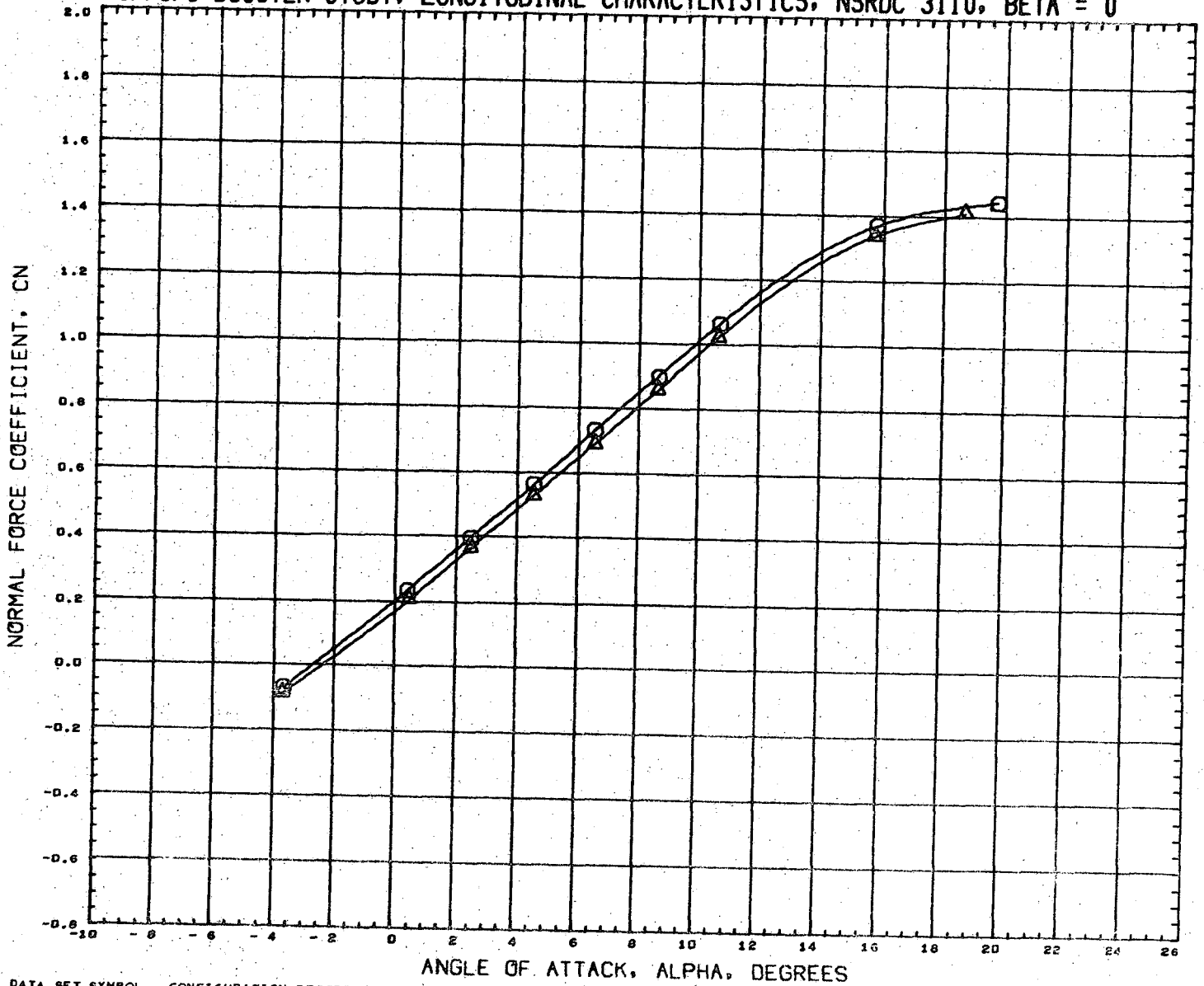
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2114)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2170)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	2.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 50. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.391

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNCPOS	REFERENCE INFORMATION
(RN2117)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SG.FT.
(RN2101)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

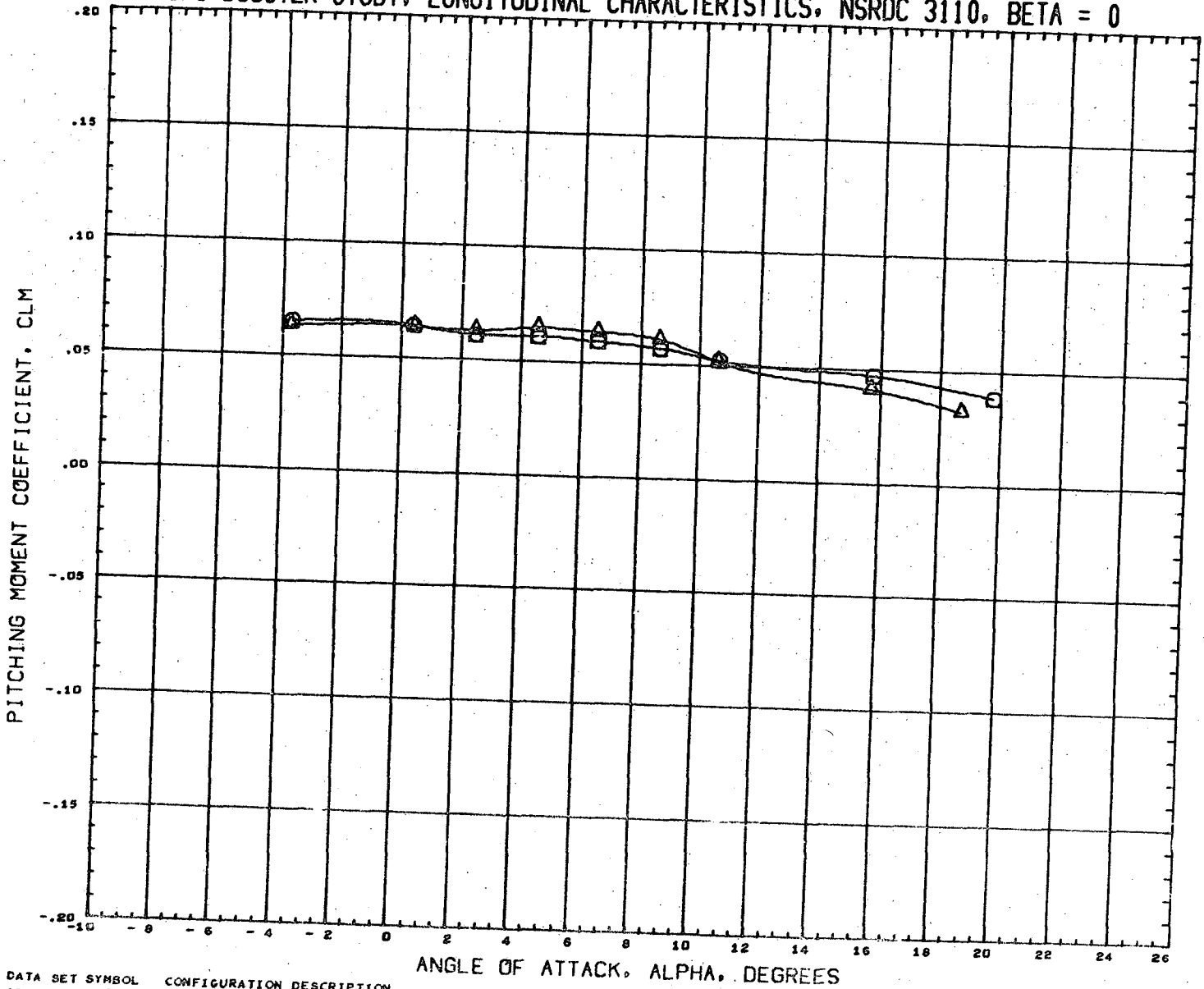
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2117)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2101)	NSRDC-3110, MSFC/LMSC BOOSTER D1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

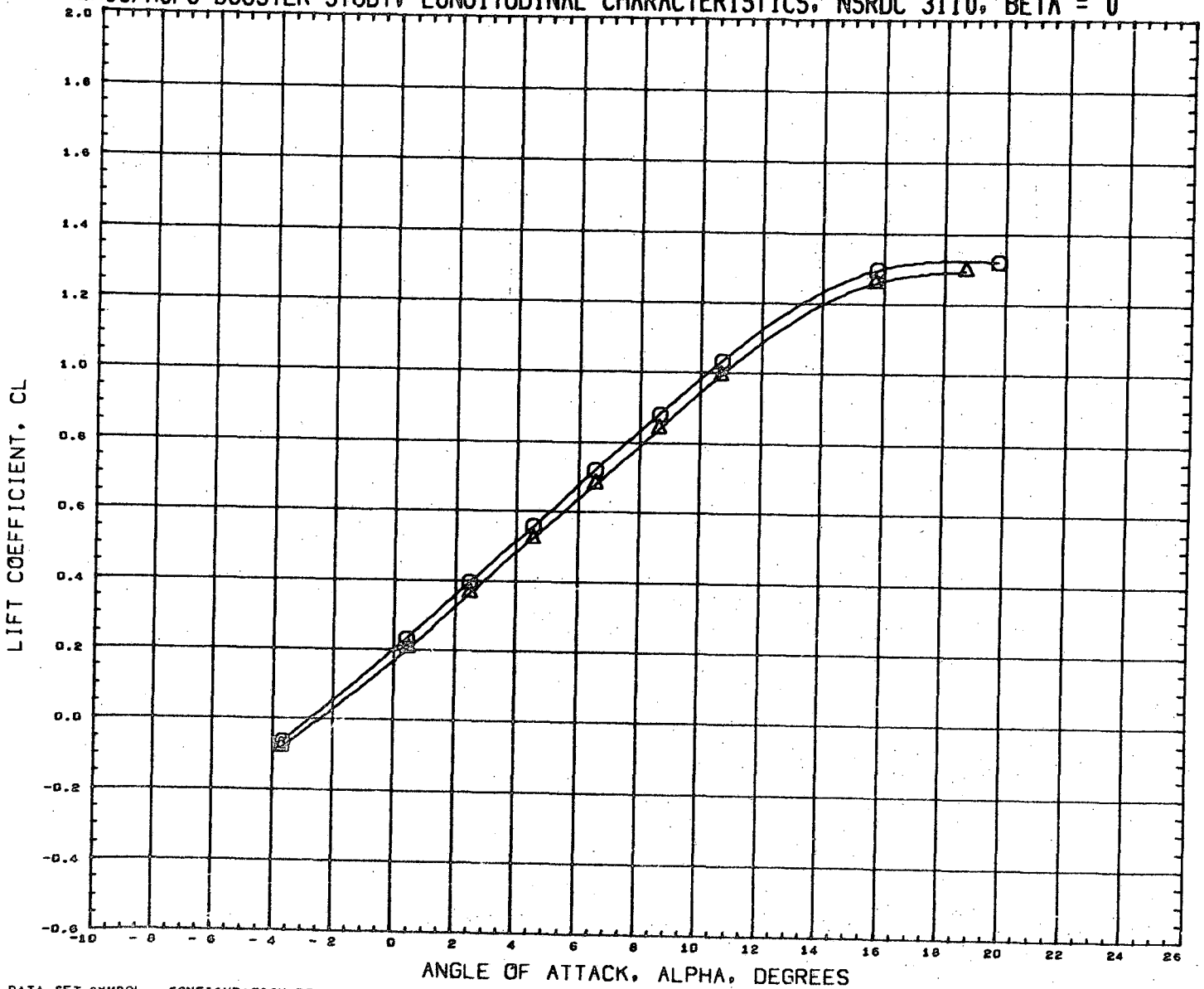
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2117) \odot	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2181) \triangle	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

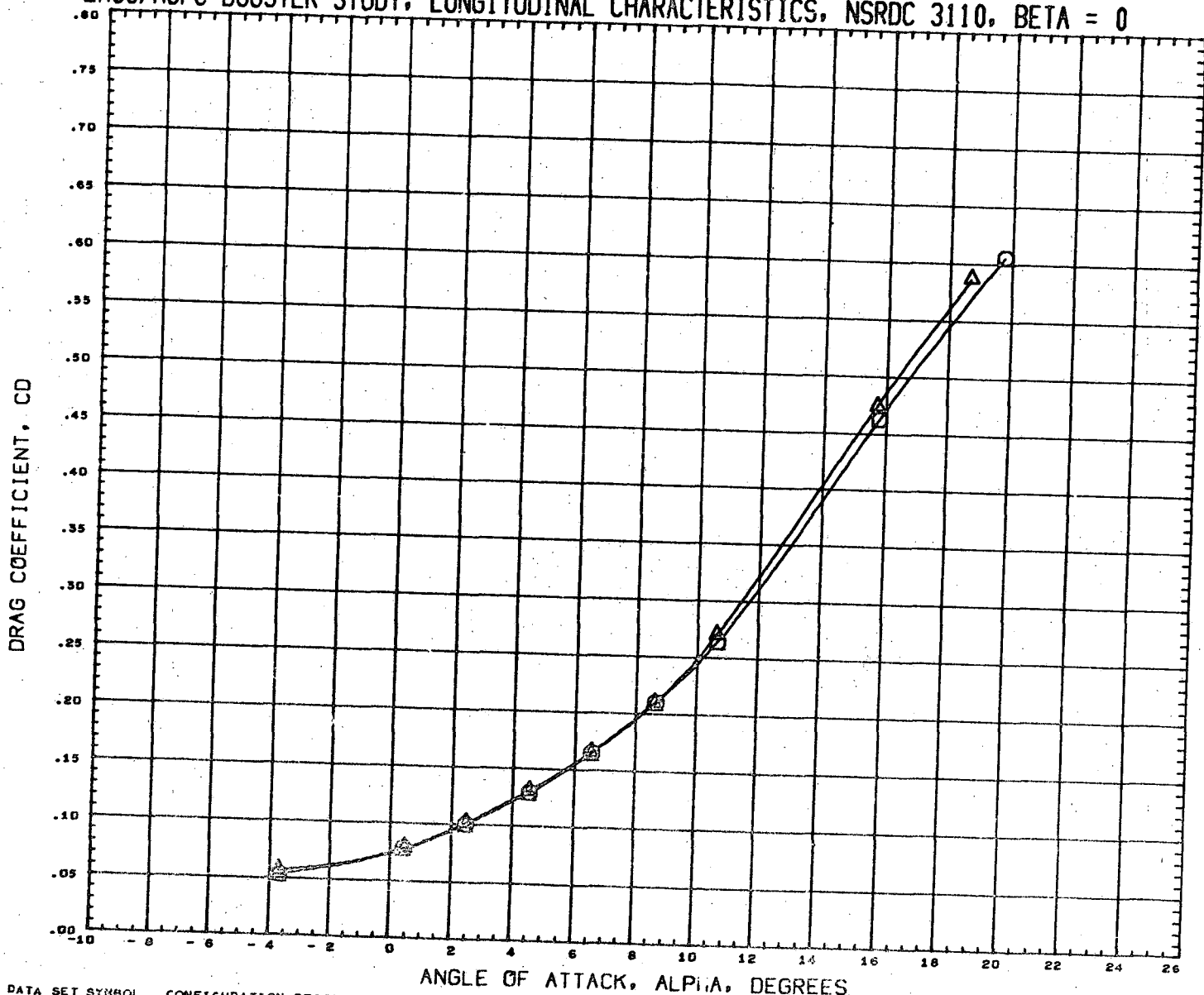
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2117)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2181)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2117)
 (RN2181)



CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

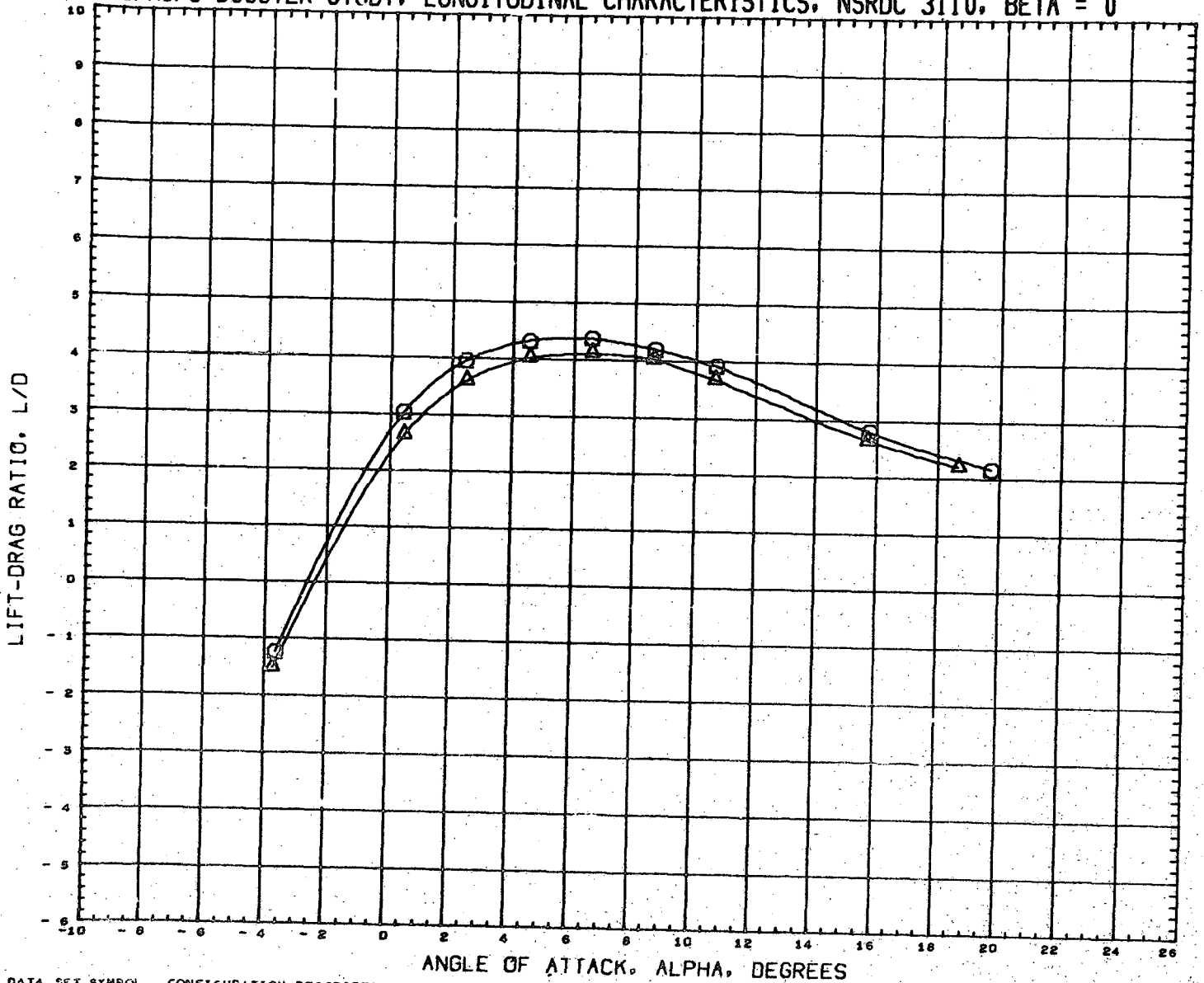
INCIDC	CNDPOS	INCIDW	WNCPOS
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

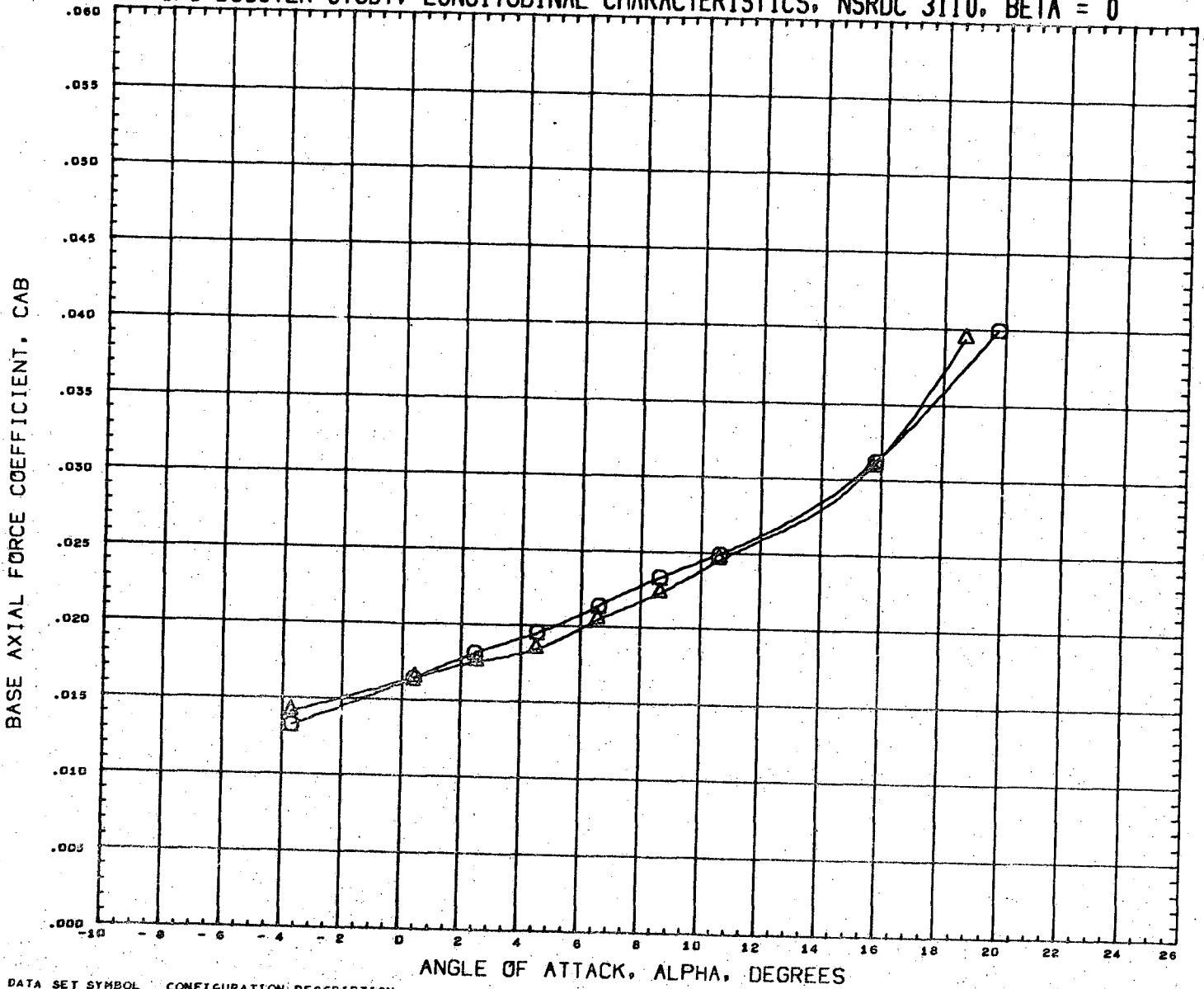
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2117)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2101)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2117)
(RN2181)



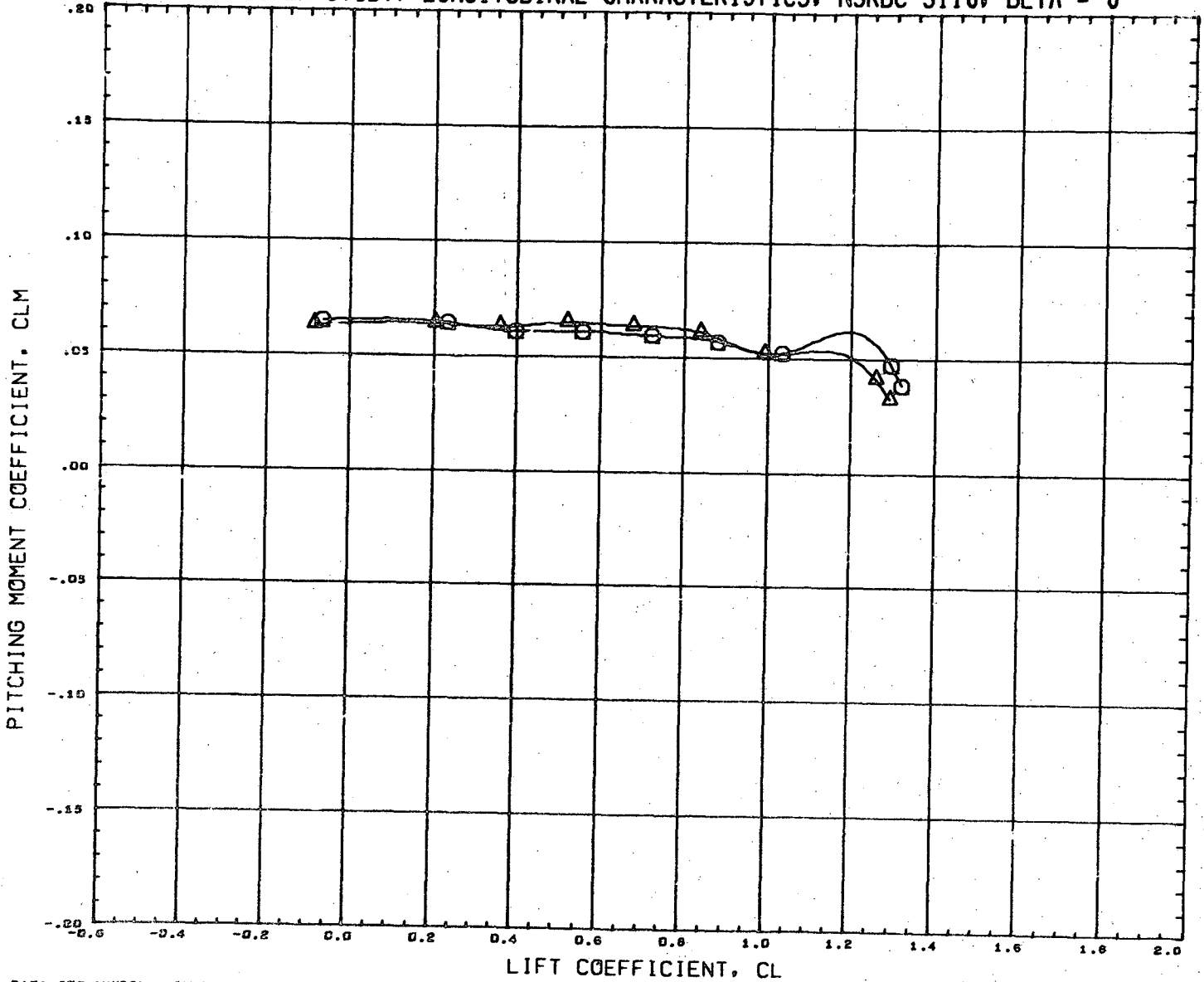
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNCPOS
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMNP	31.1400	INCHES
YNRP	0.0000	INCHES
ZHRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

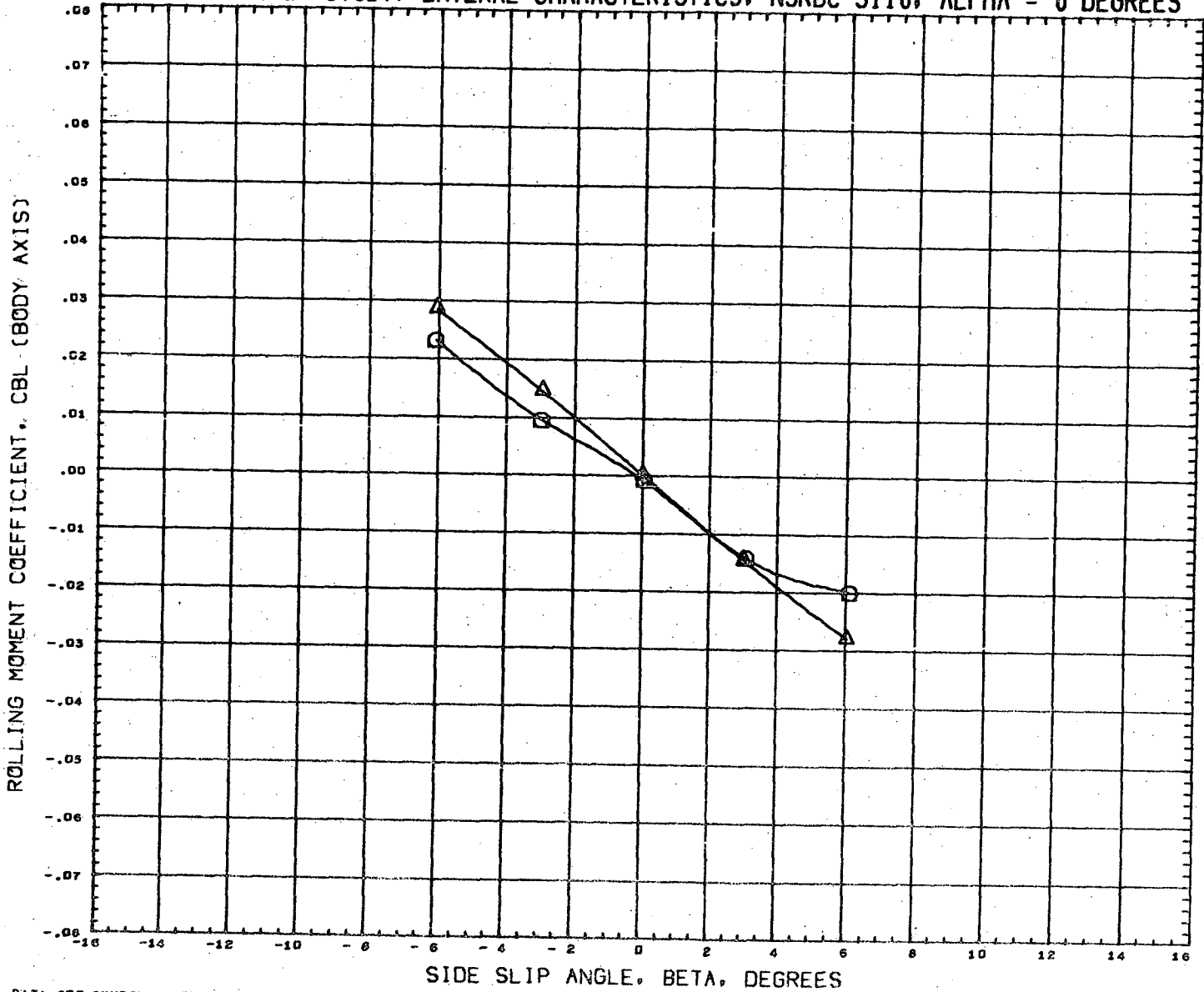
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2117)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2101)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

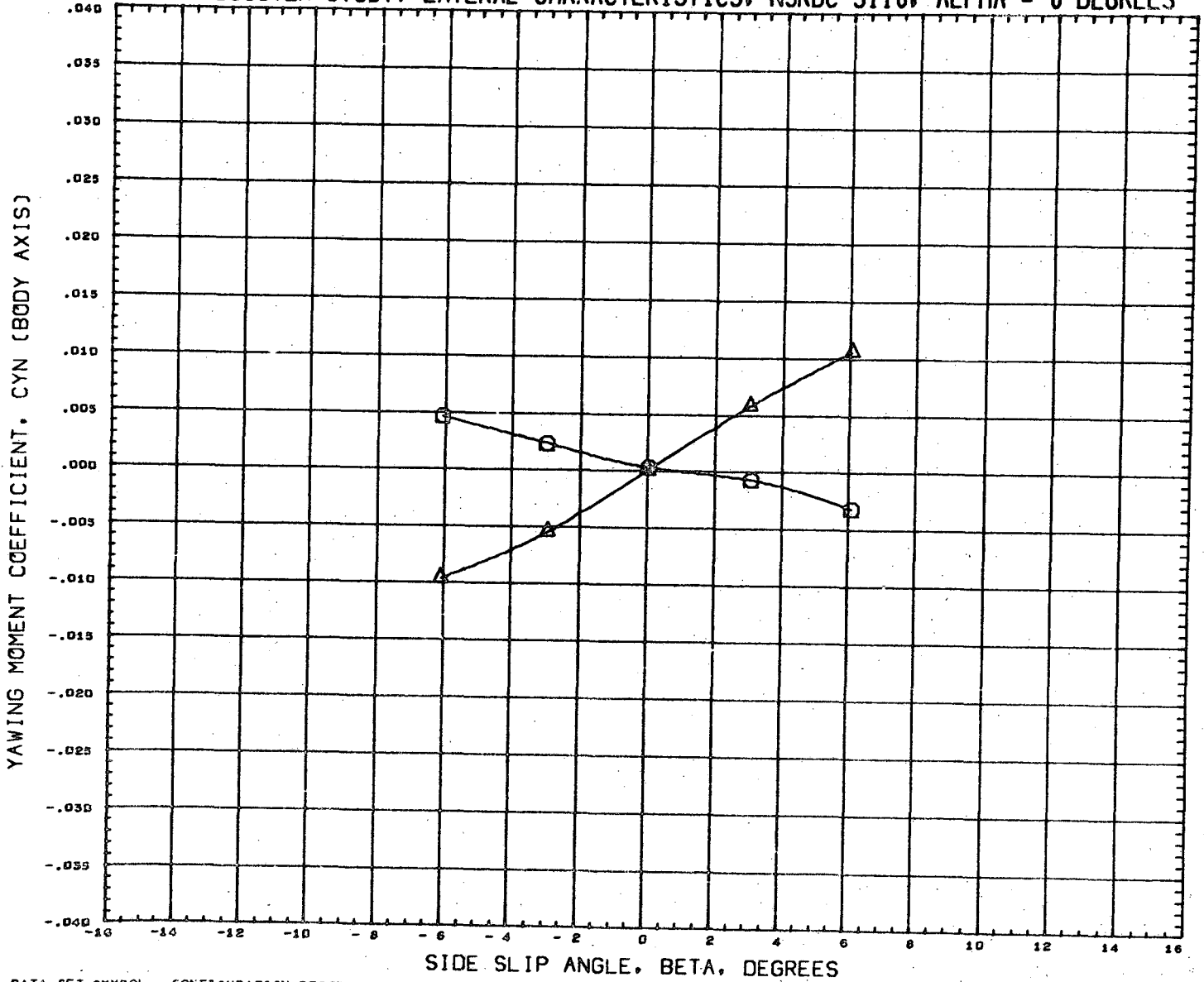
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2118)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2182)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						YMRP 31.1400 INCHES
						ZMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.390

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2118) □
(RN2182) △

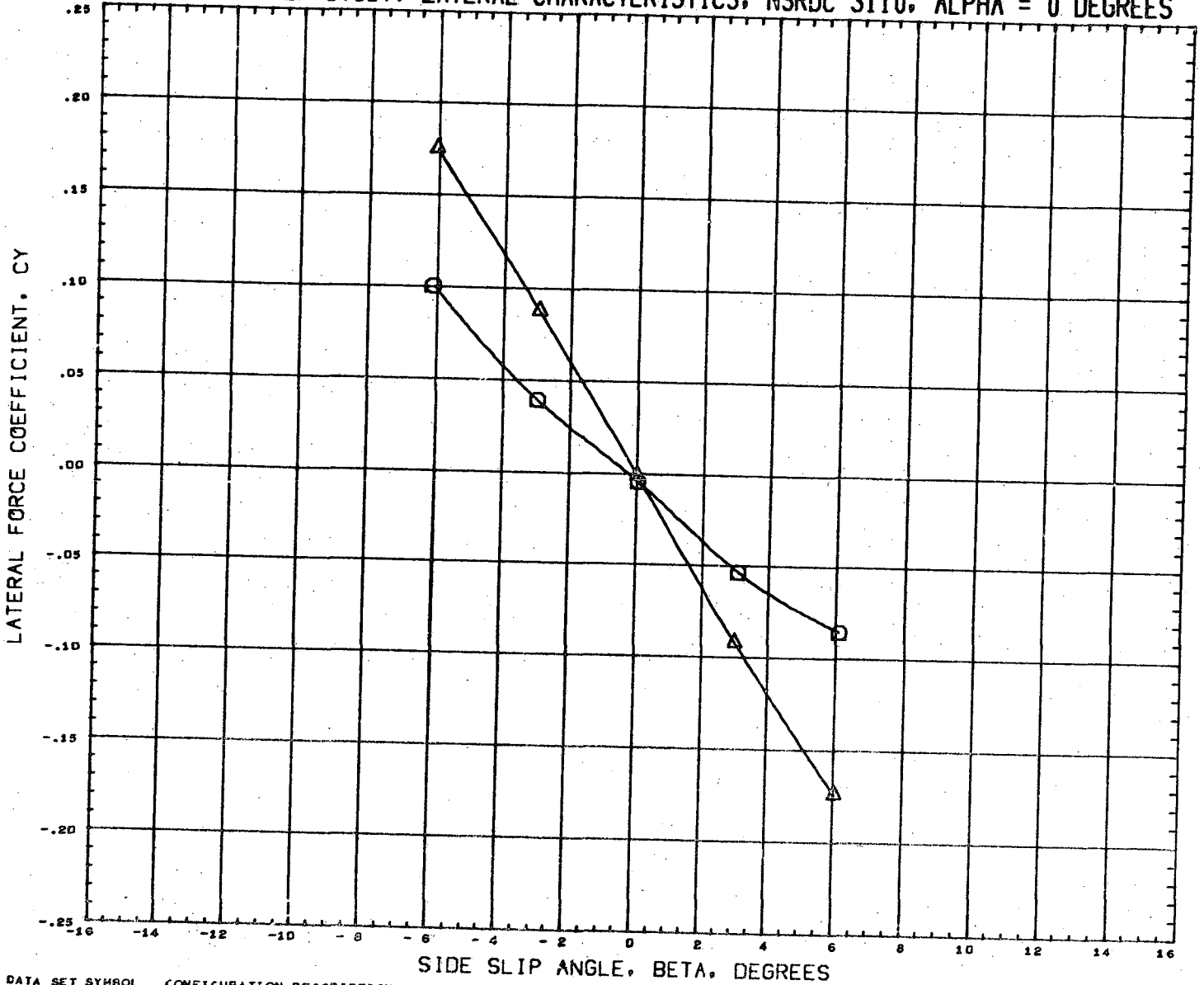
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2110) □	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2102) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

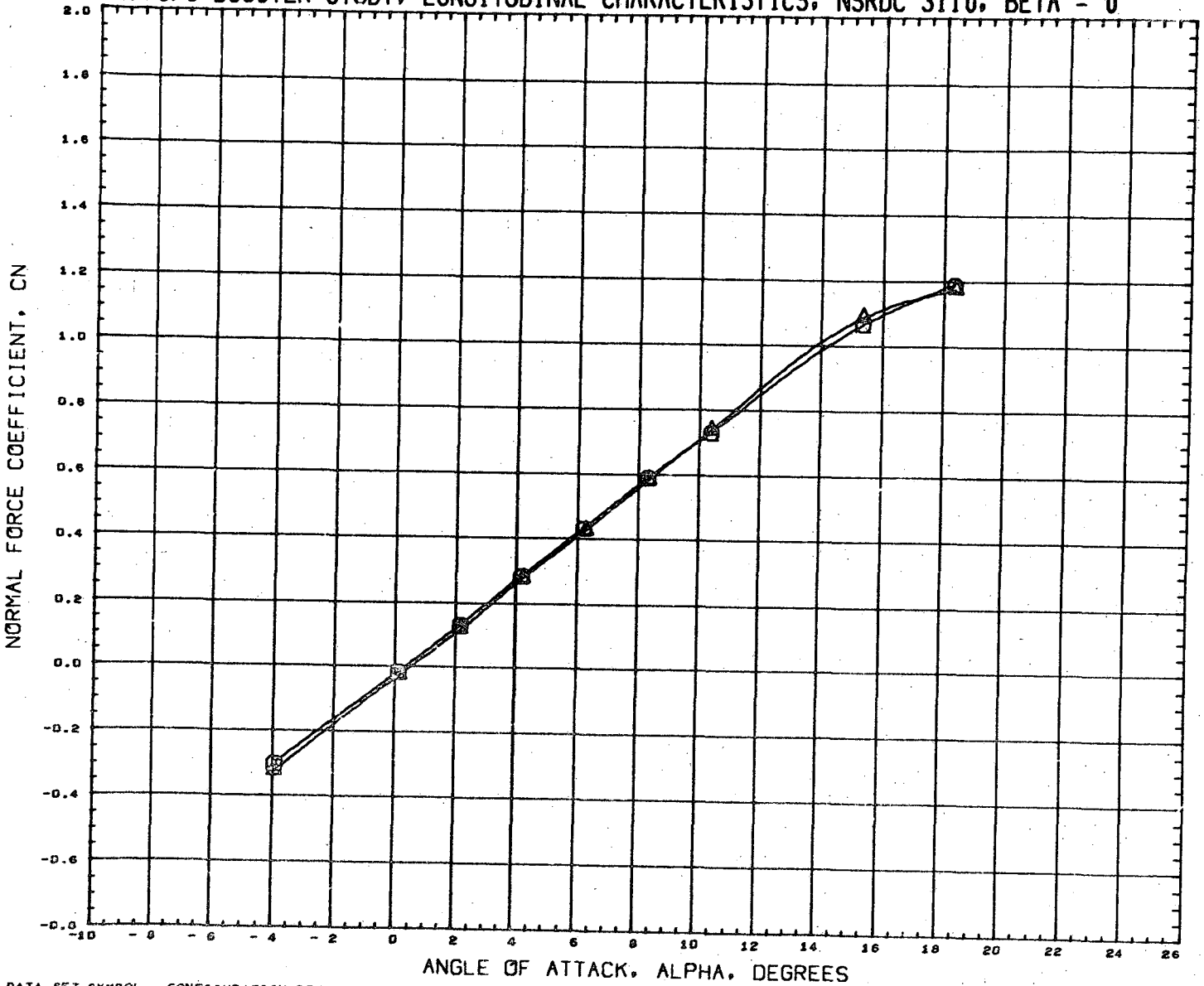
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	2.000
15.000	1.000	3.000	2.000



REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2089) 
 (RN2153) 

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1
 NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1

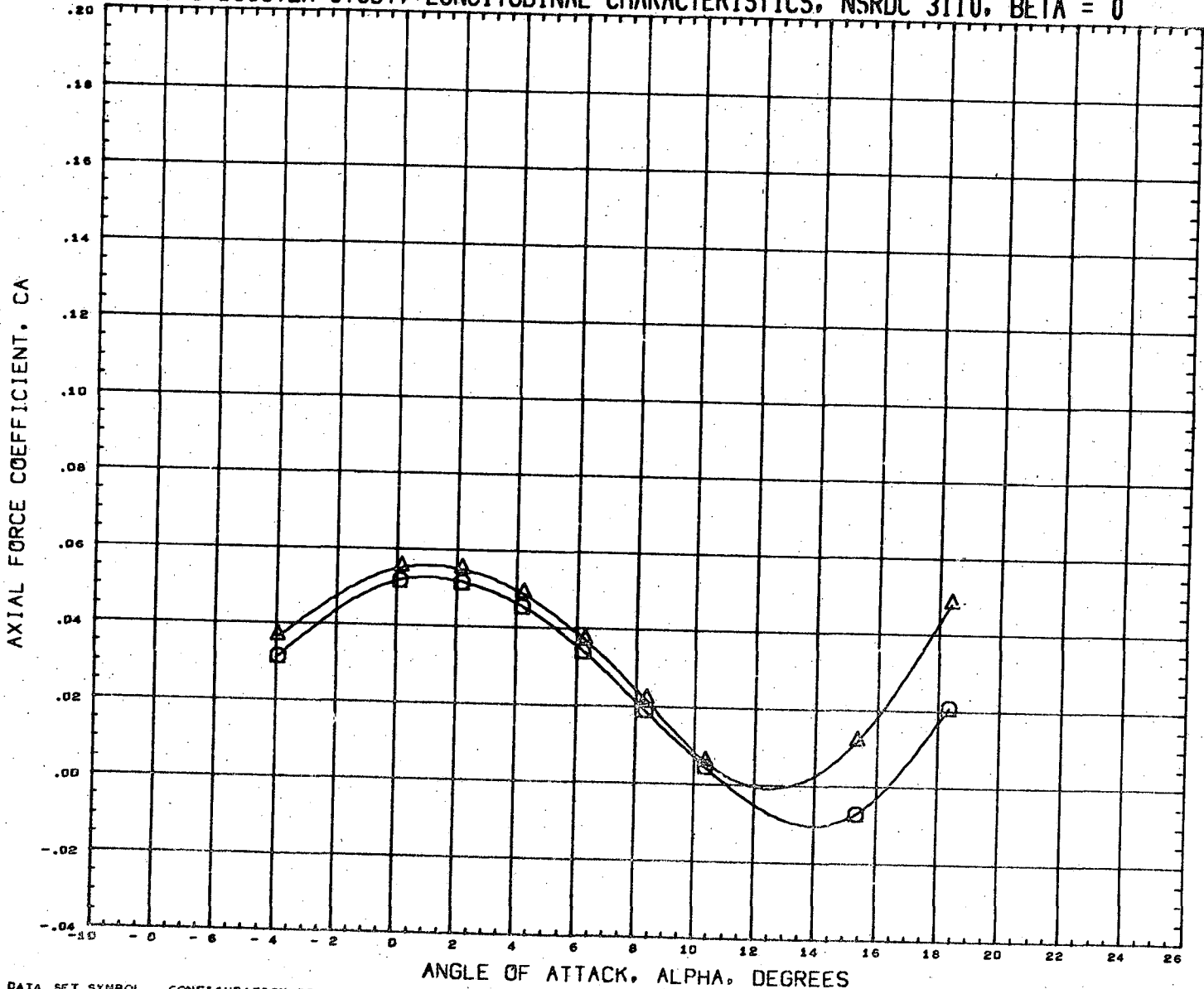
INCIDC	CNDFOS	INCIDW	WNGFOS
3.000	2.000	0.000	2.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRF	31.1400	INCHES
YMRF	0.0000	INCHES
ZMRF	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

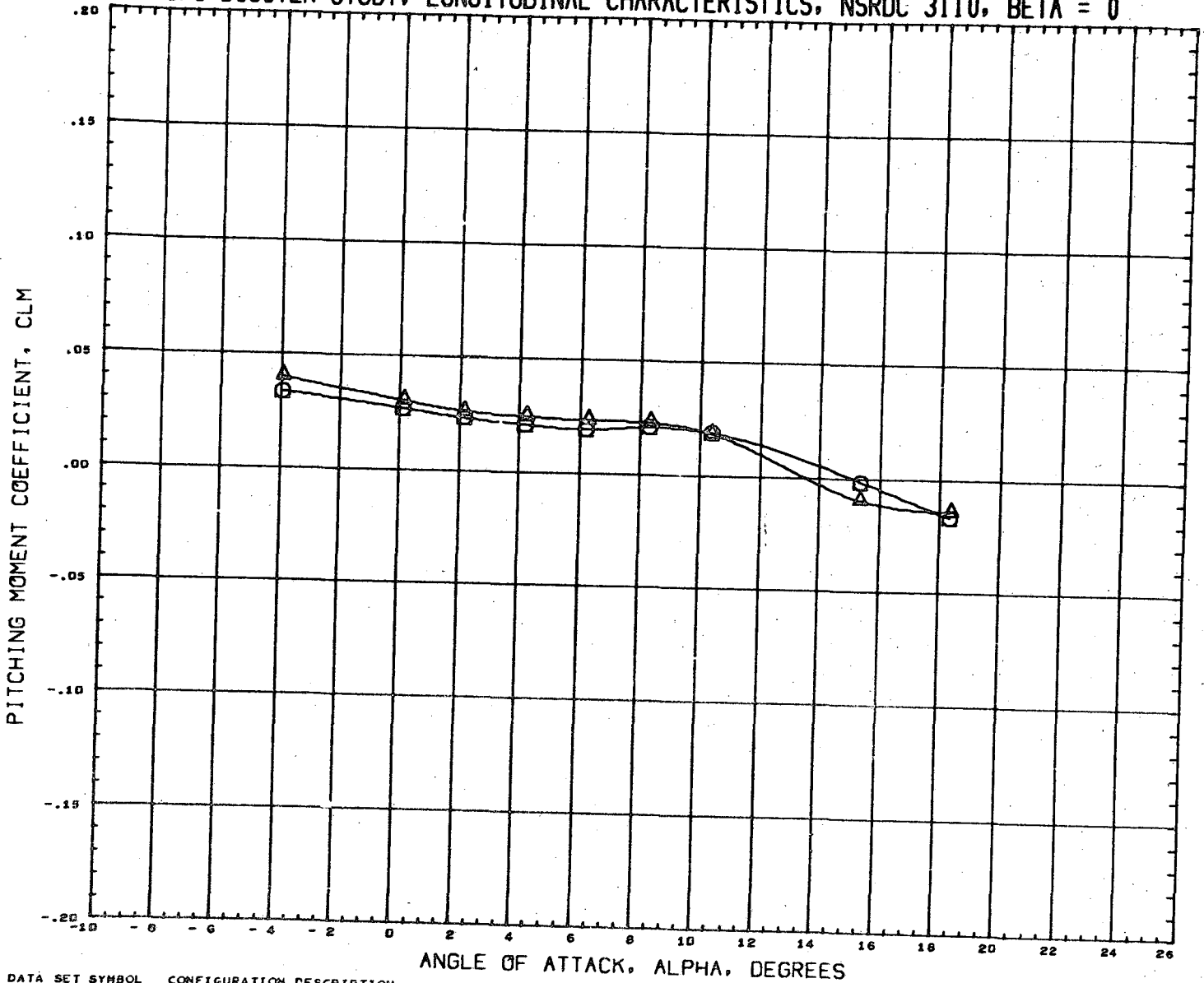
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2089)	NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2153)	NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

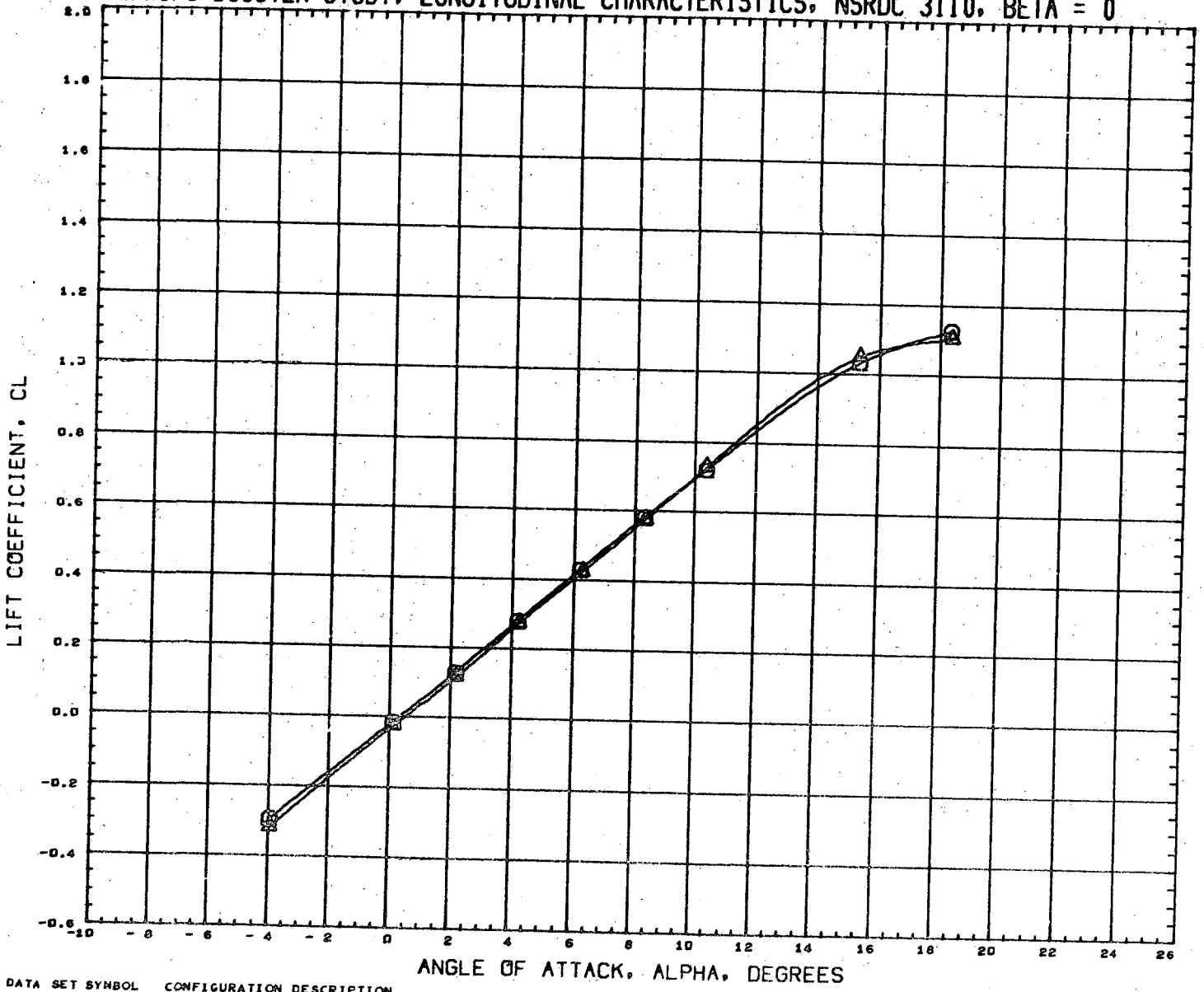
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RM2089)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RM2153)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

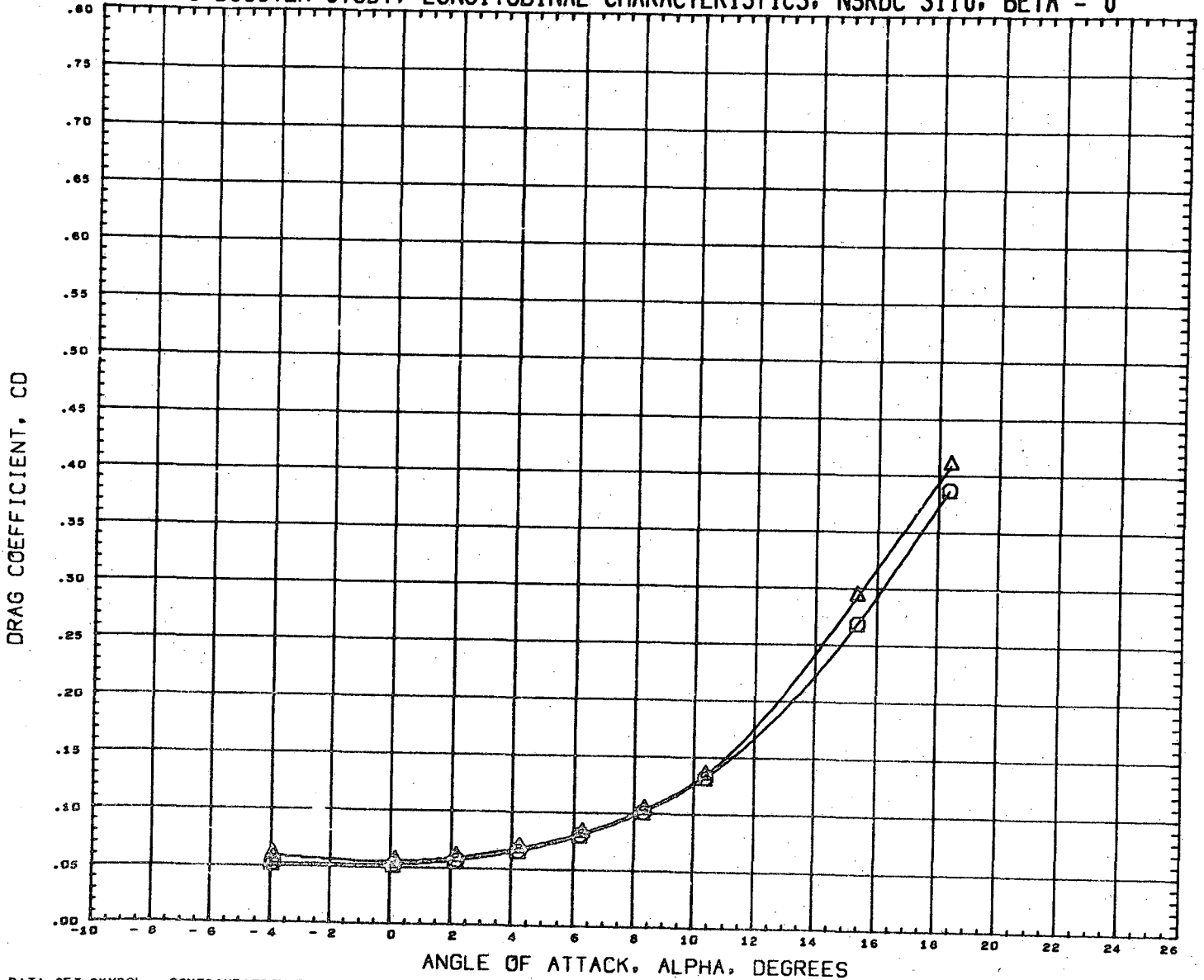
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2089)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2153)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

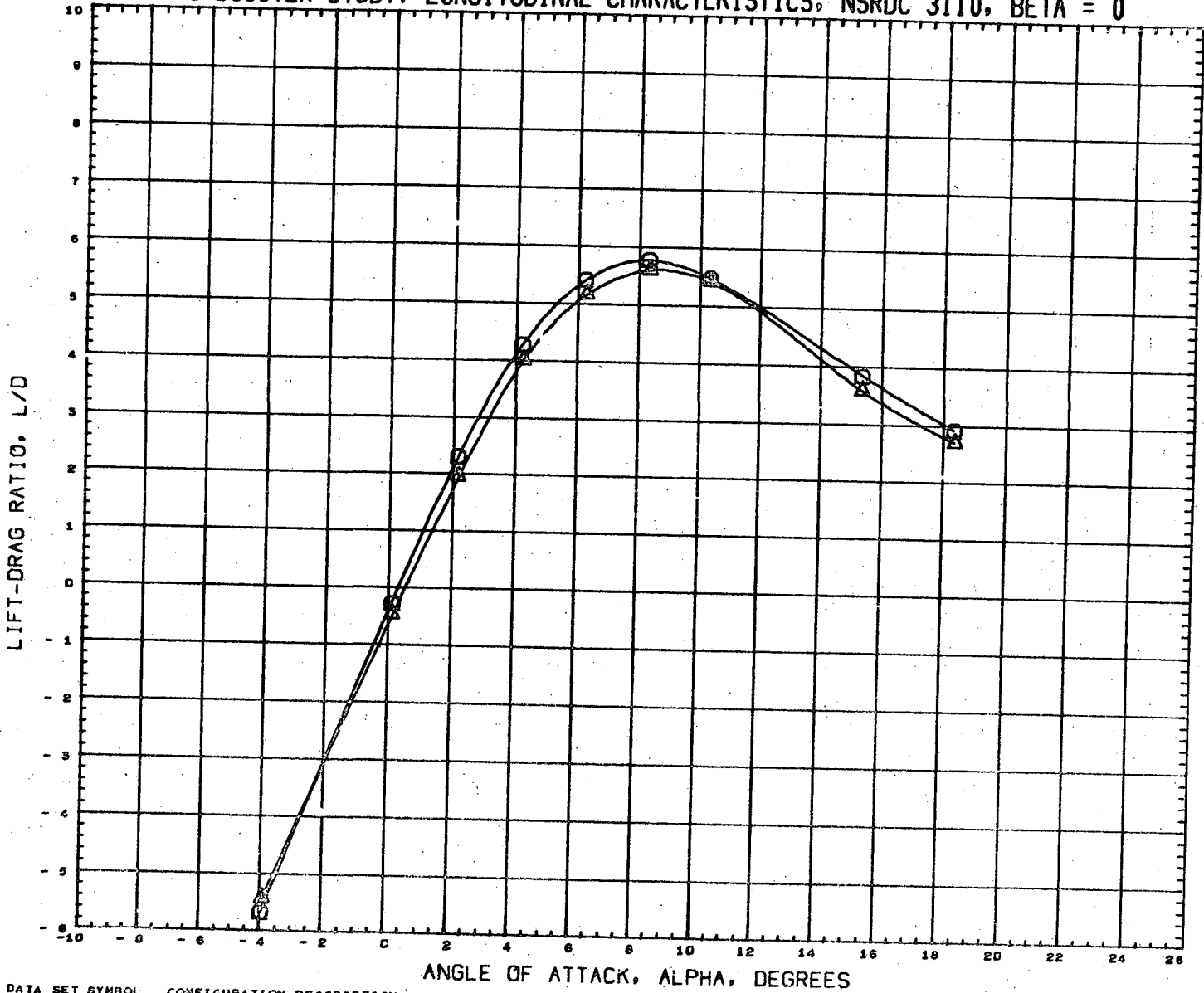
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2089)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ. FT.
(RN2153)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.360

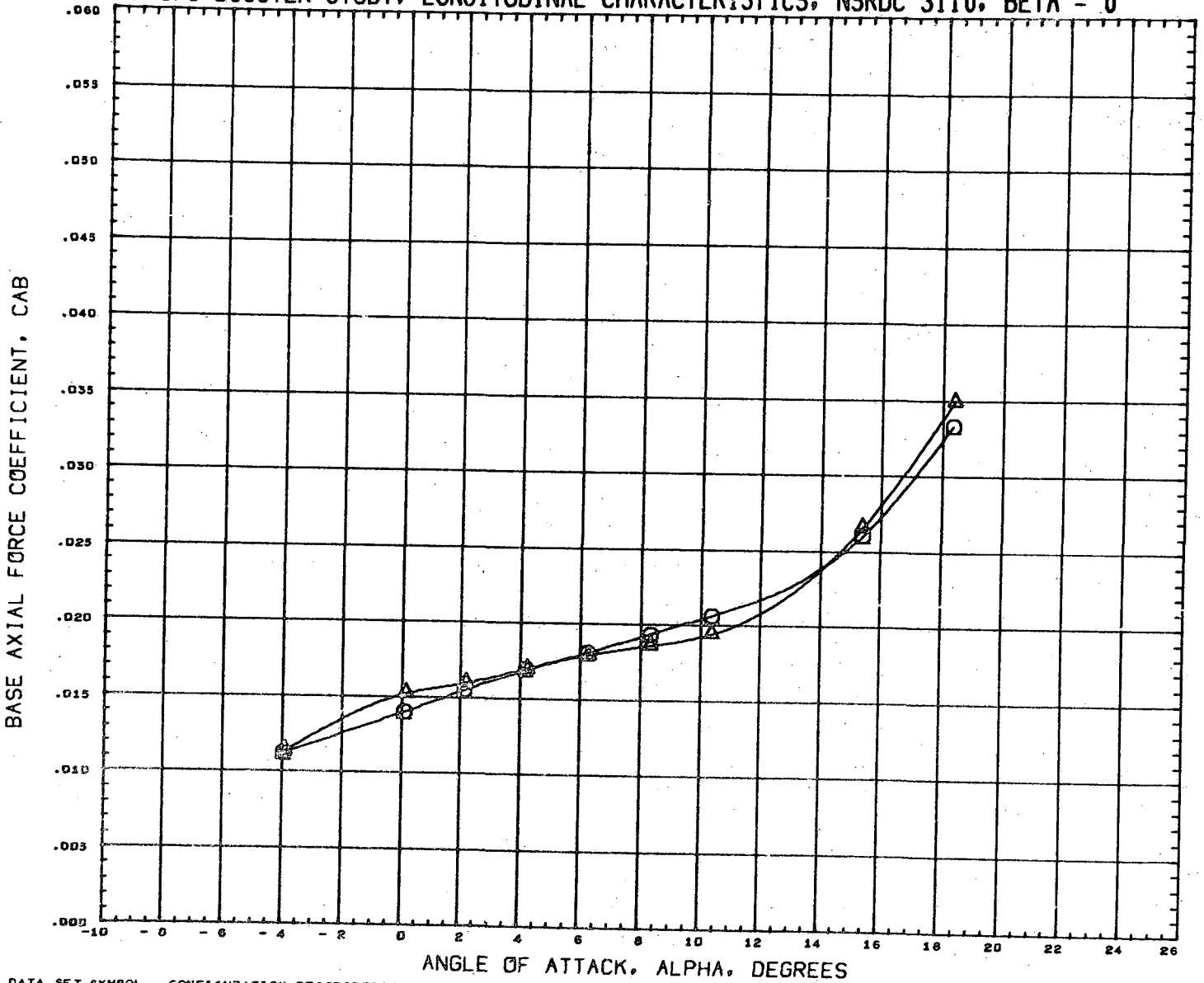
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2089)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2153)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.360

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2089) □
(RN2155) △

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

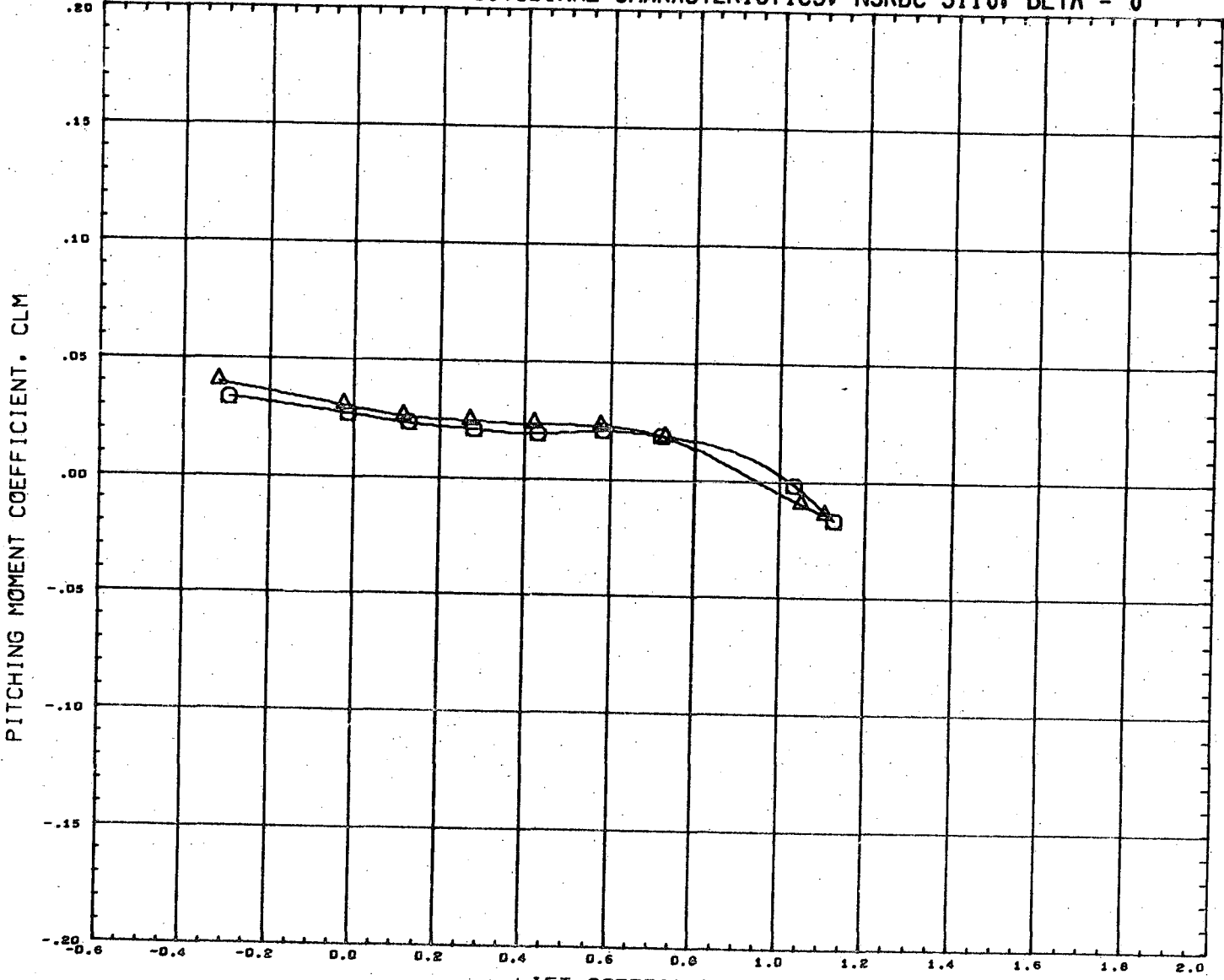
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	2.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.300

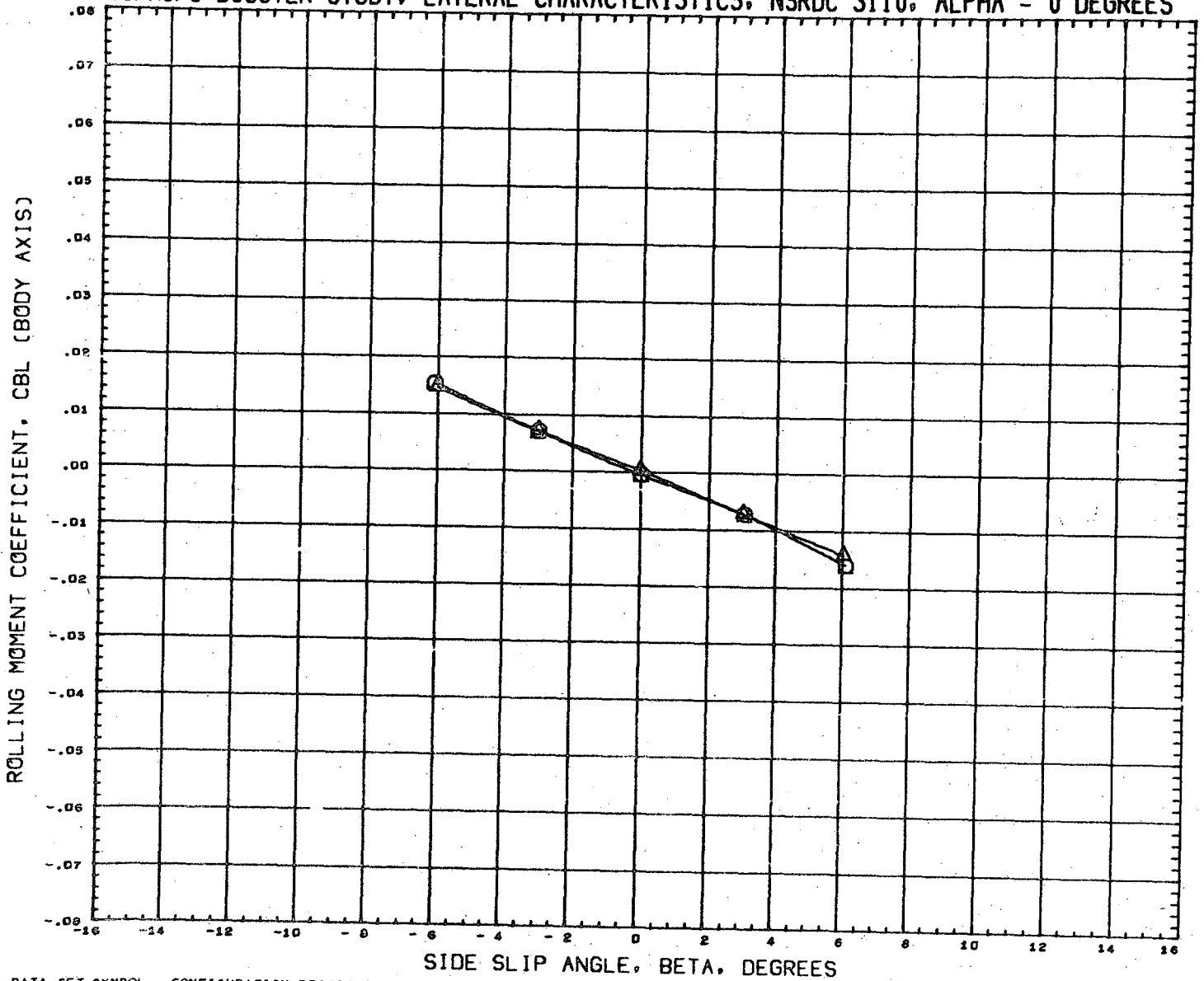
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2089)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2153)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2090) 
(RN2154) 

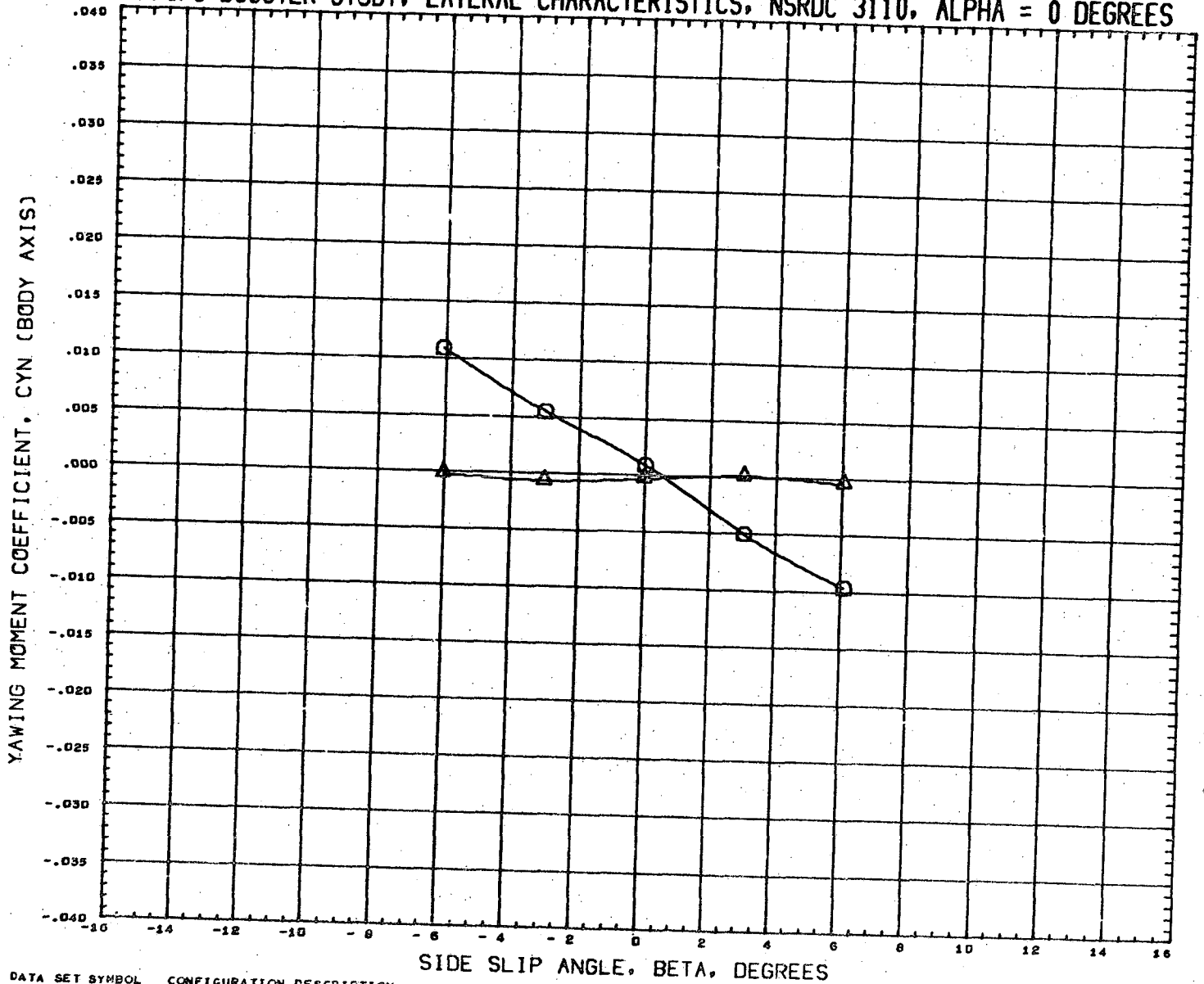
CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	2.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN209D)
(RN2154)



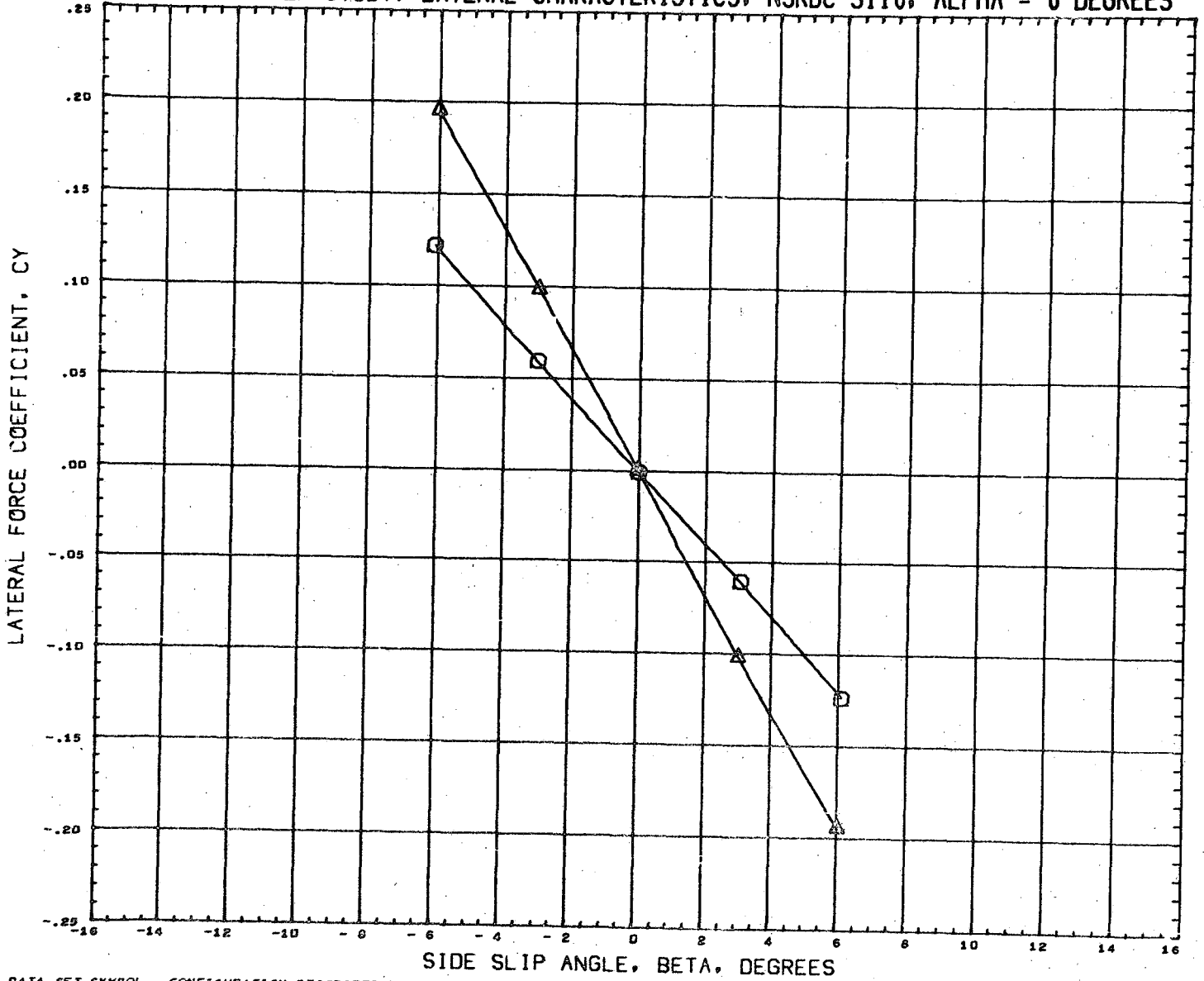
CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC 3.000
CNDPOS 2.000
INCIDW 0.000
WNGFOS 2.000

REFERENCE INFORMATION
SREF 1.3550 SQ.FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



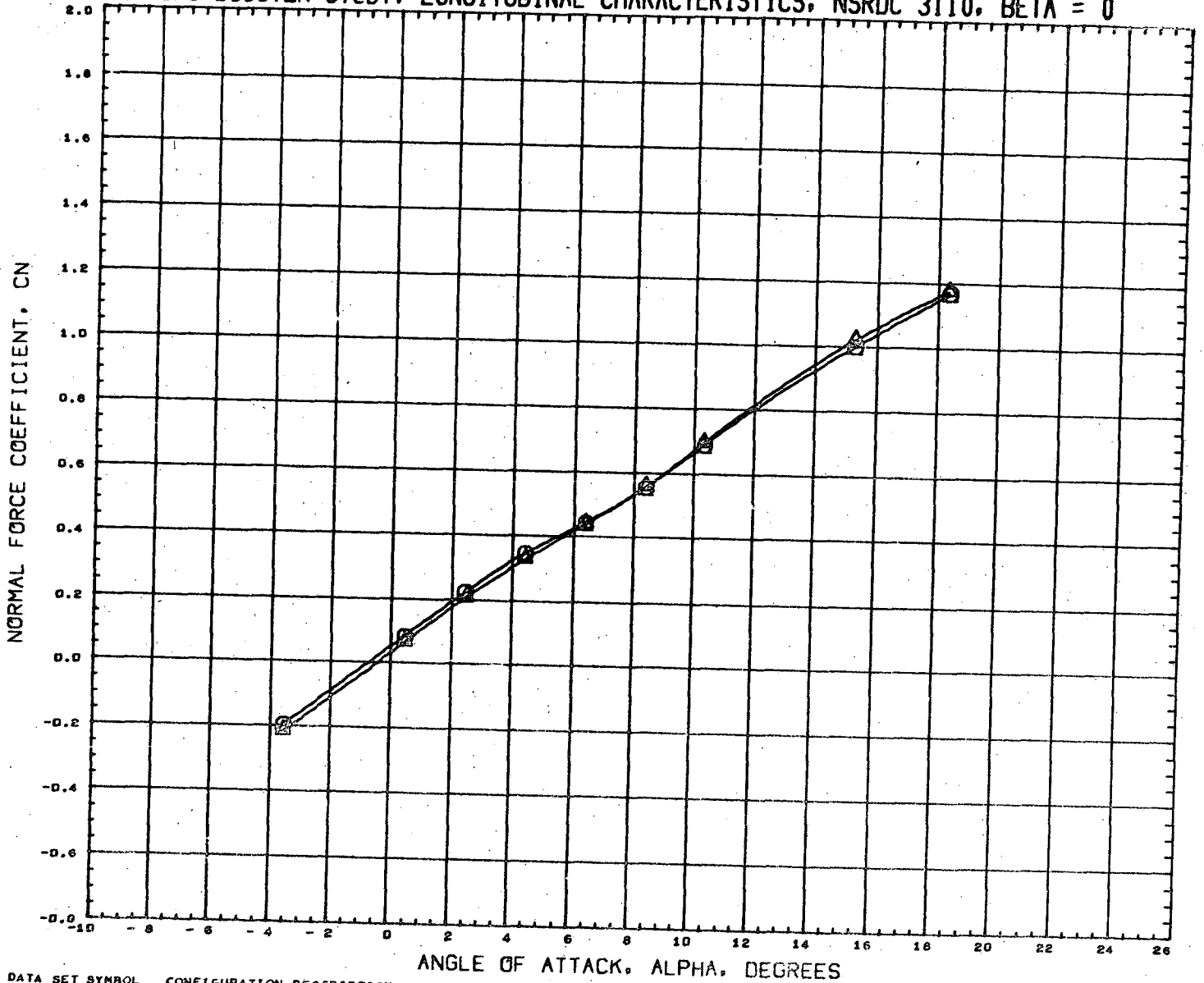
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2090) \square	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2154) \triangle	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	2.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2290 INCHES
SCALE	1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2095)
(RN2157)



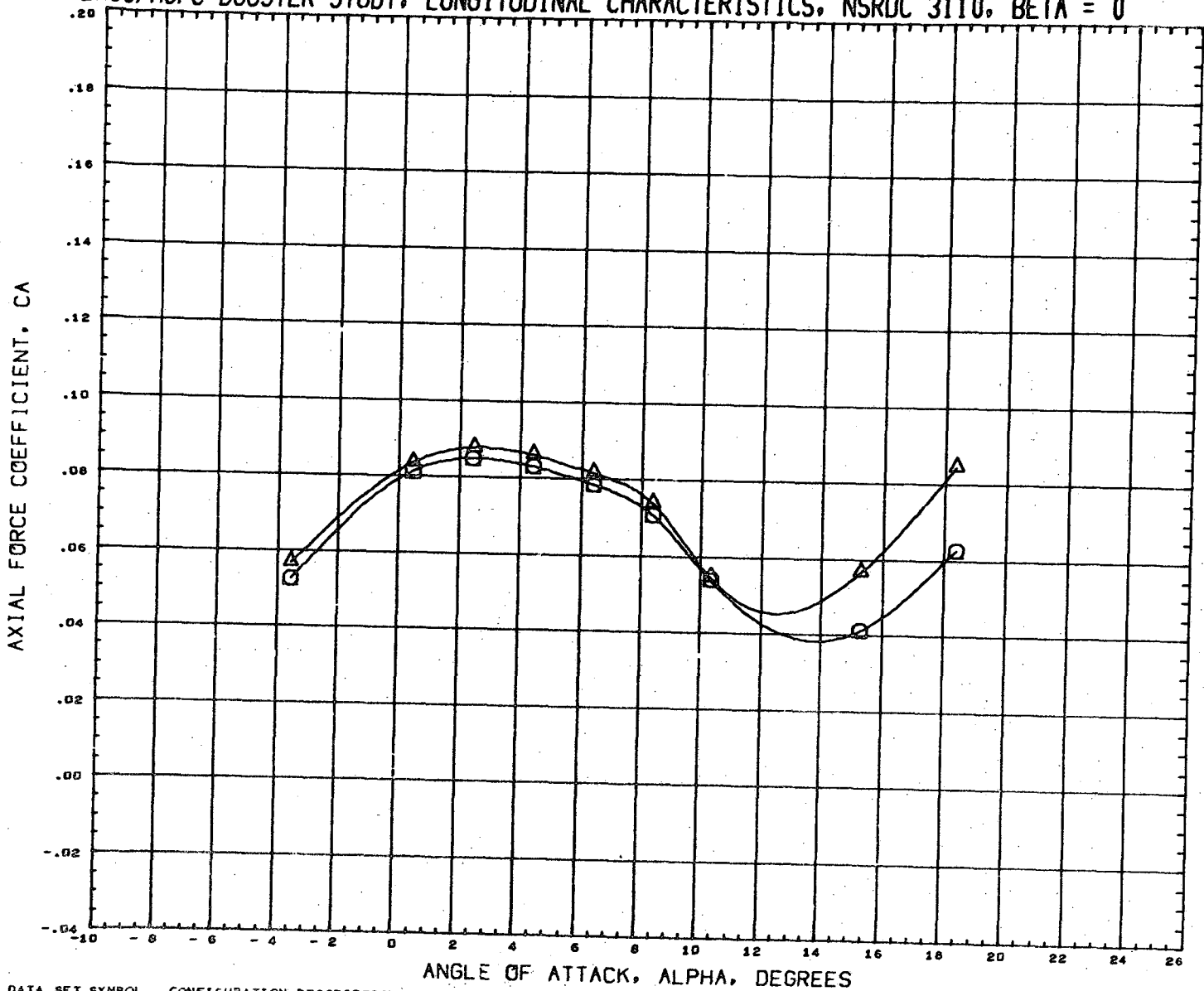
CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	2.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	sq. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

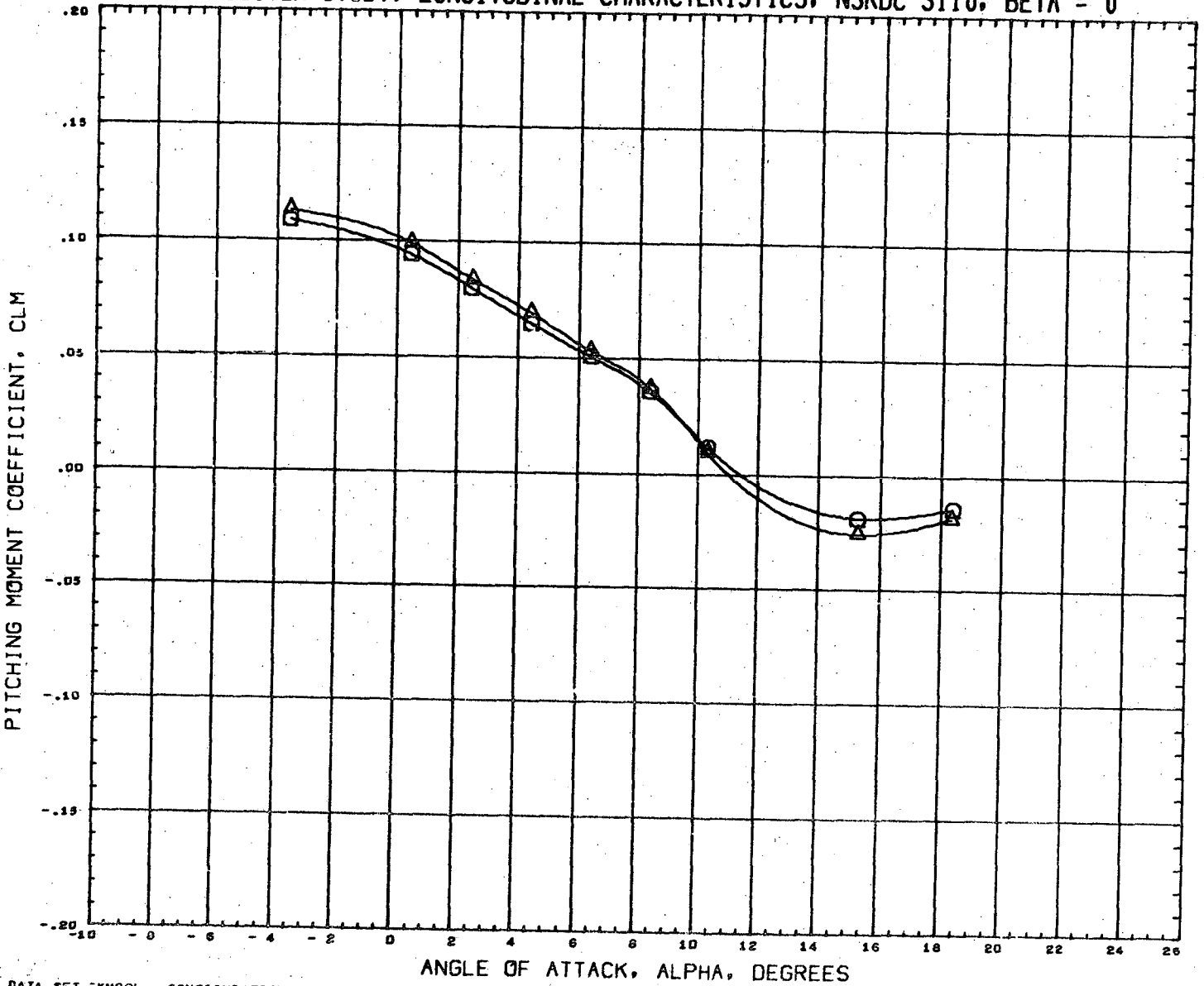
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS	REFERENCE INFORMATION
(RN2093)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2157)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

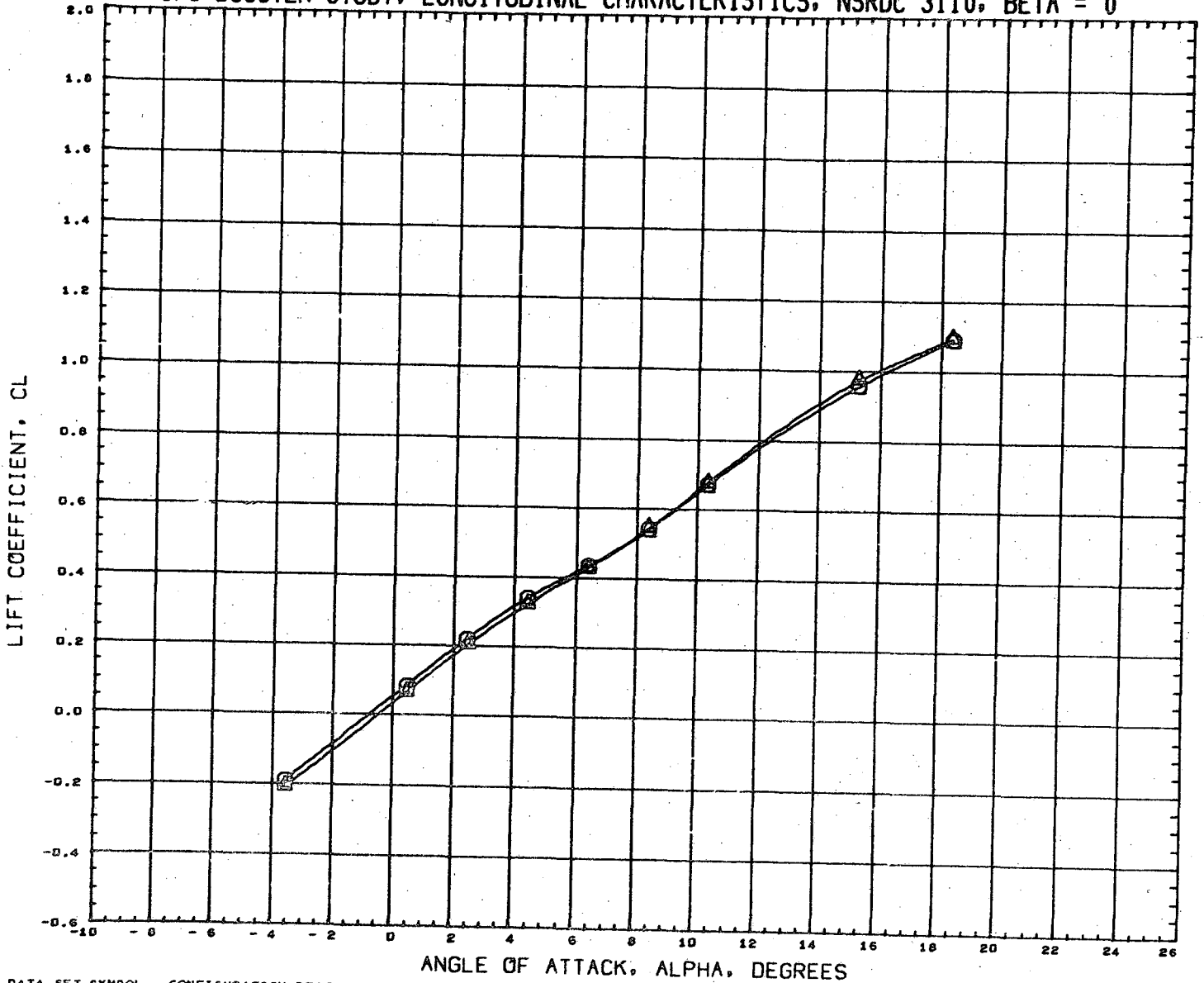
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2093)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 99. FT.
(RN2157)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

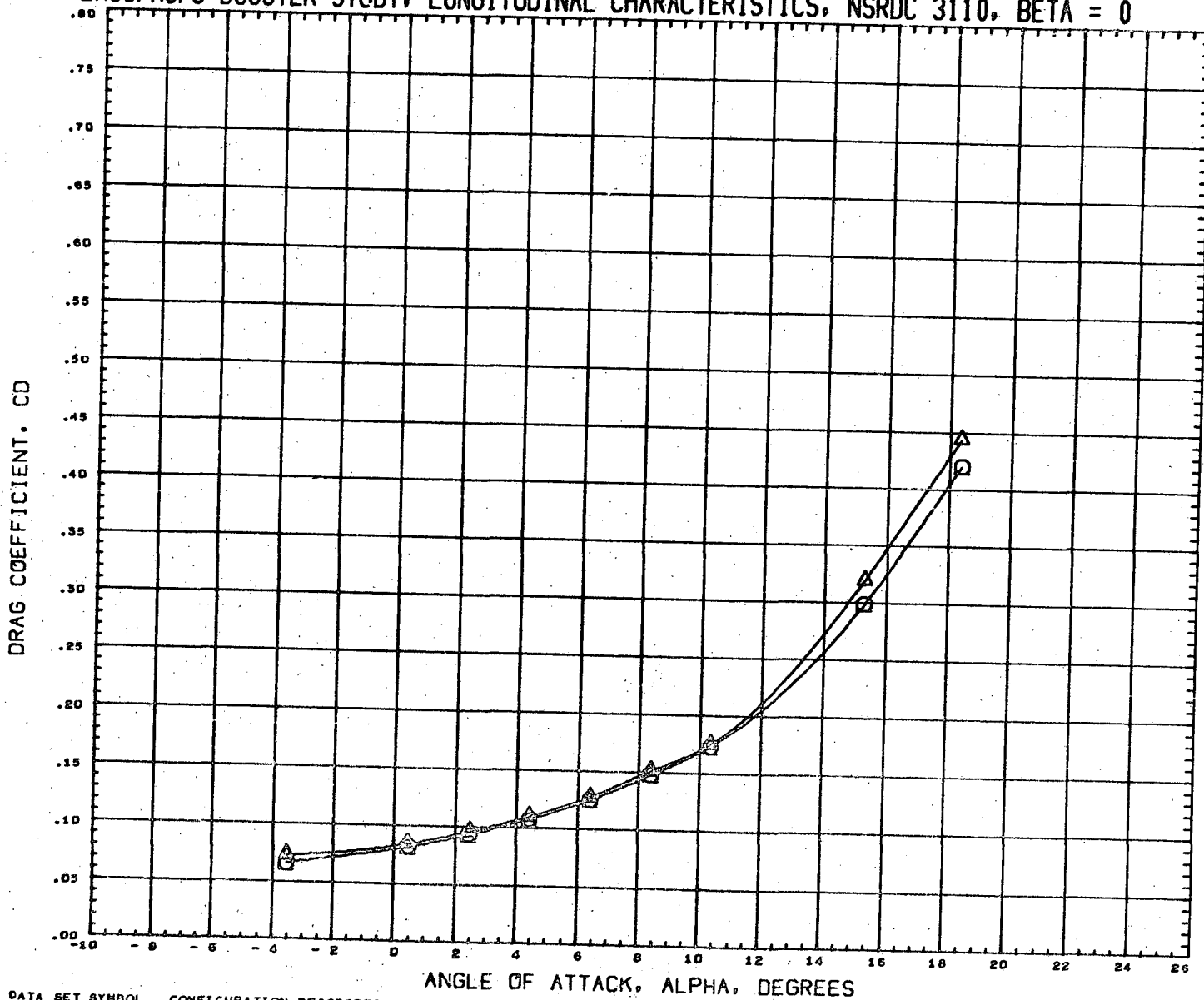
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2093)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2157)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2093) □
(RN2157) △

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

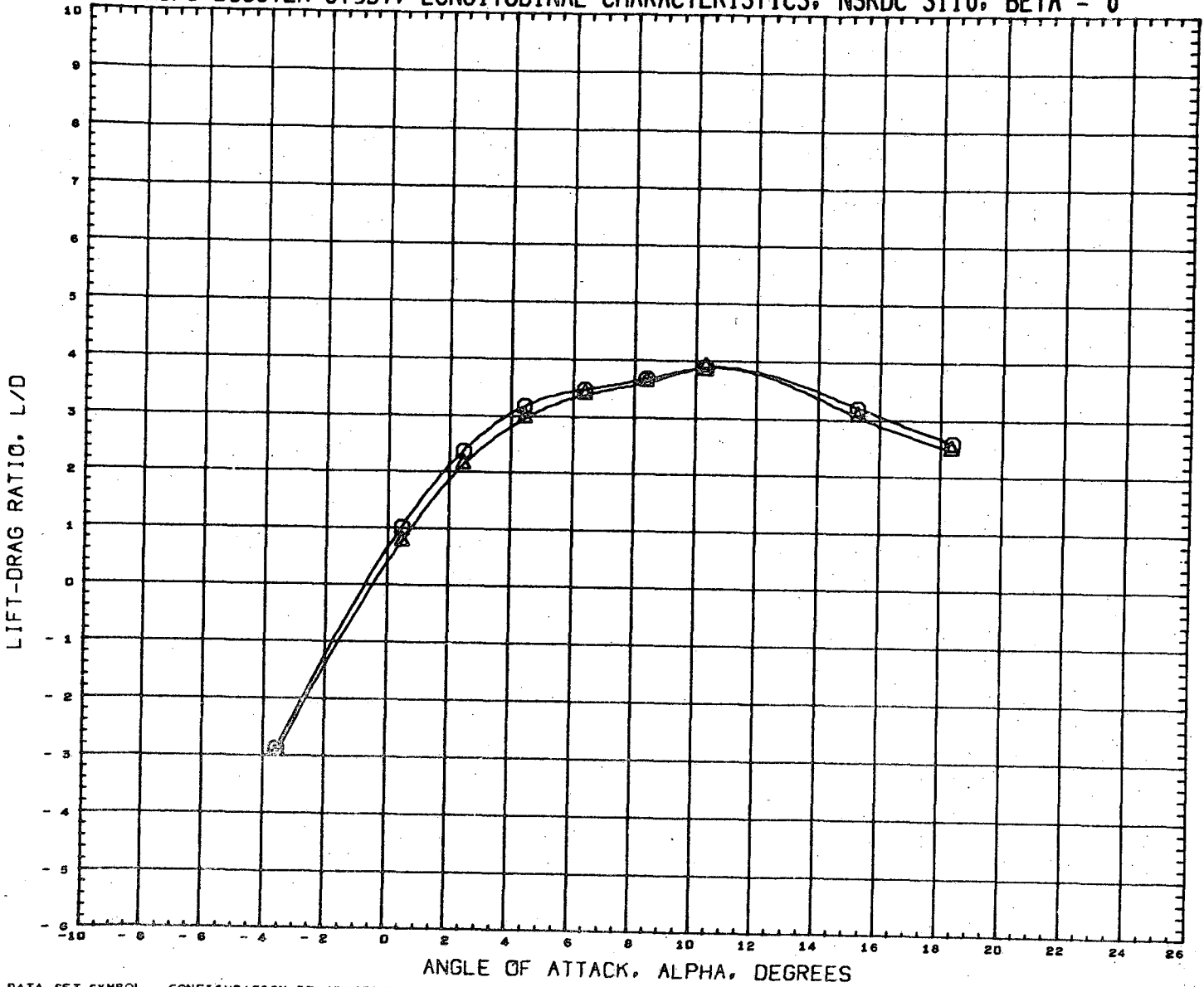
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	2.000
15.000	2.000	0.000	2.000



REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2093) 
(RN2157) 

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

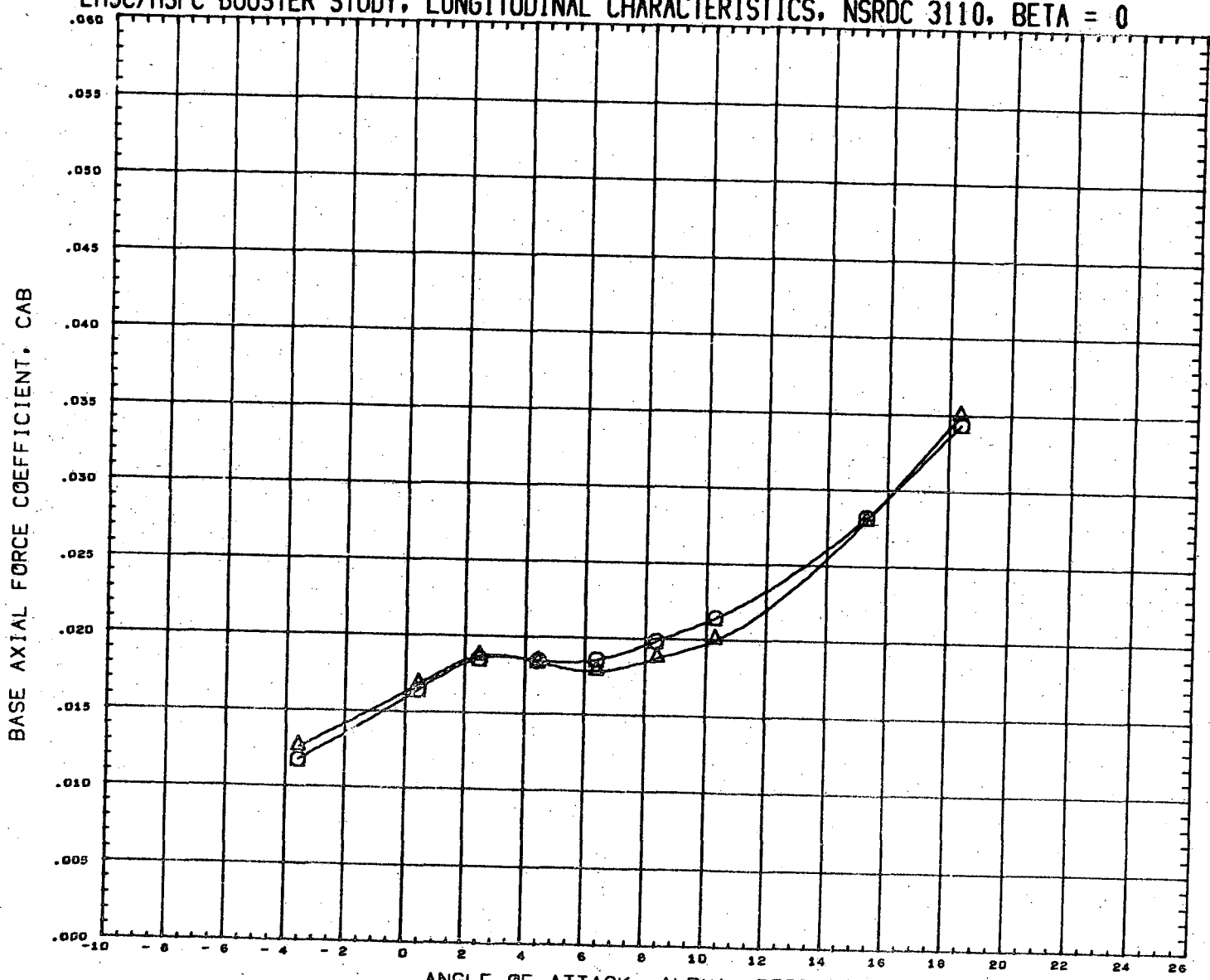
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	2.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

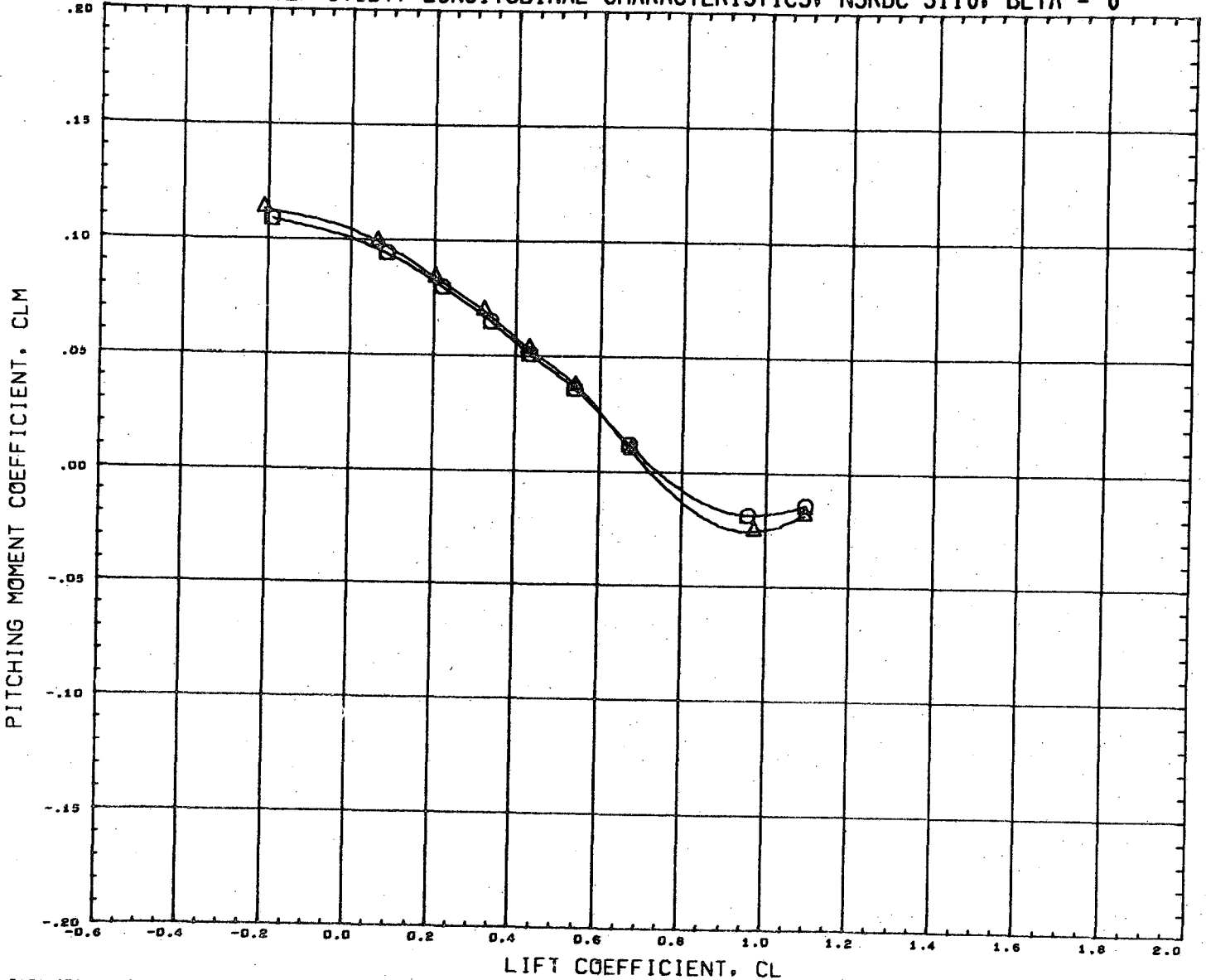
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RM2093)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	SREF	1.3550 SQ. FT.
(RM2157)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

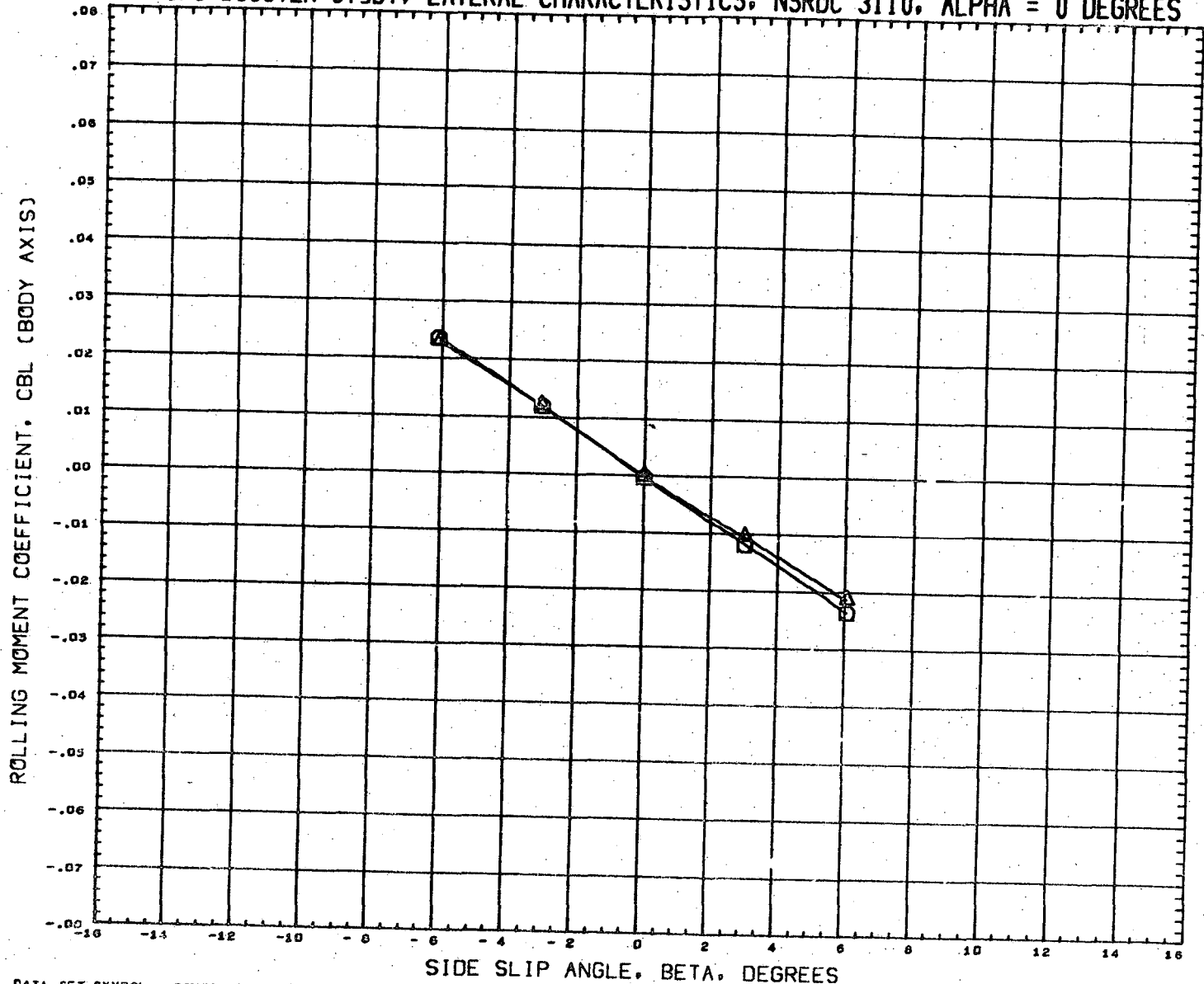
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2093)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	SREF	1.3550 SQ.FT.
(RN2157)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

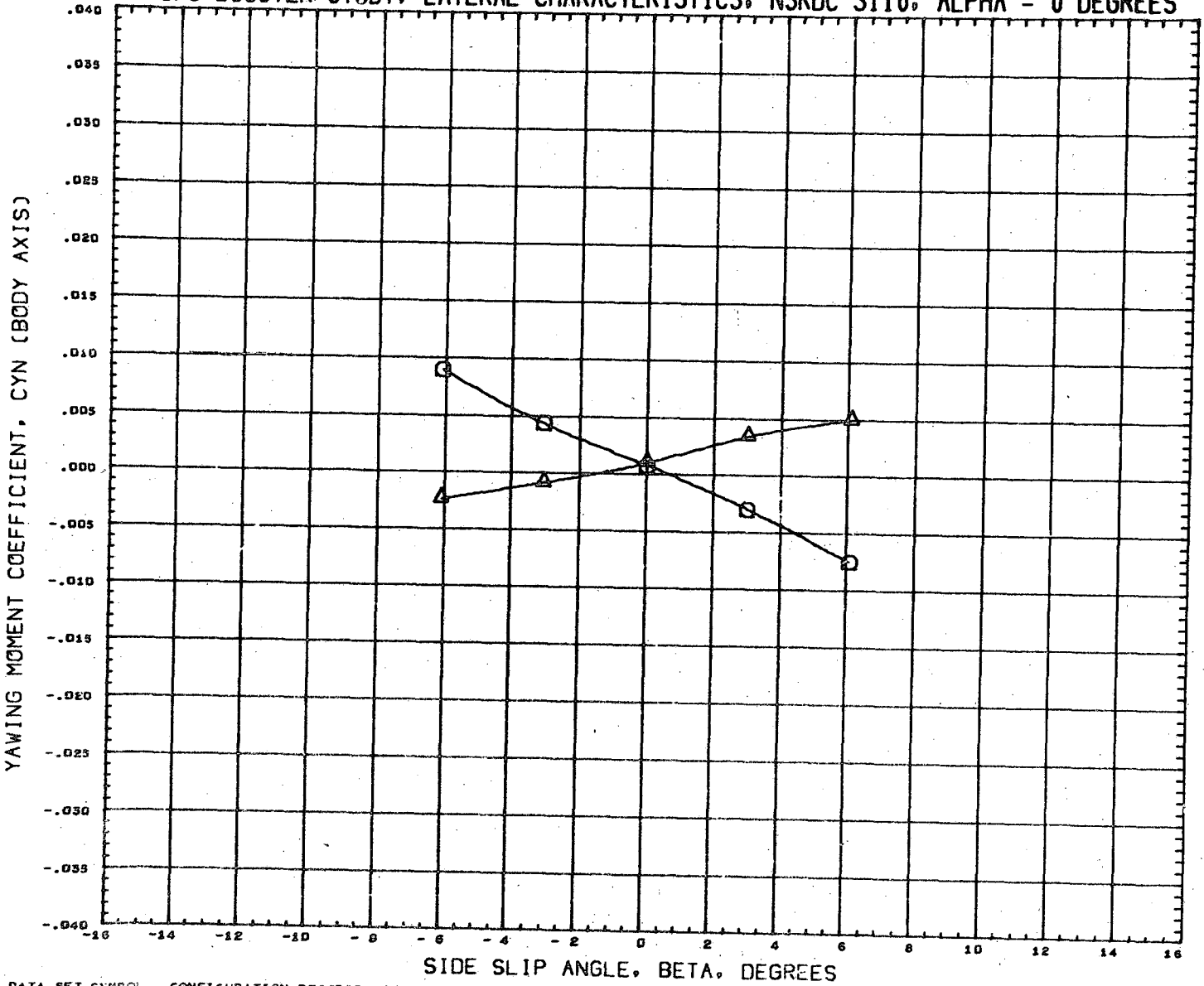
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2094)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2158)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

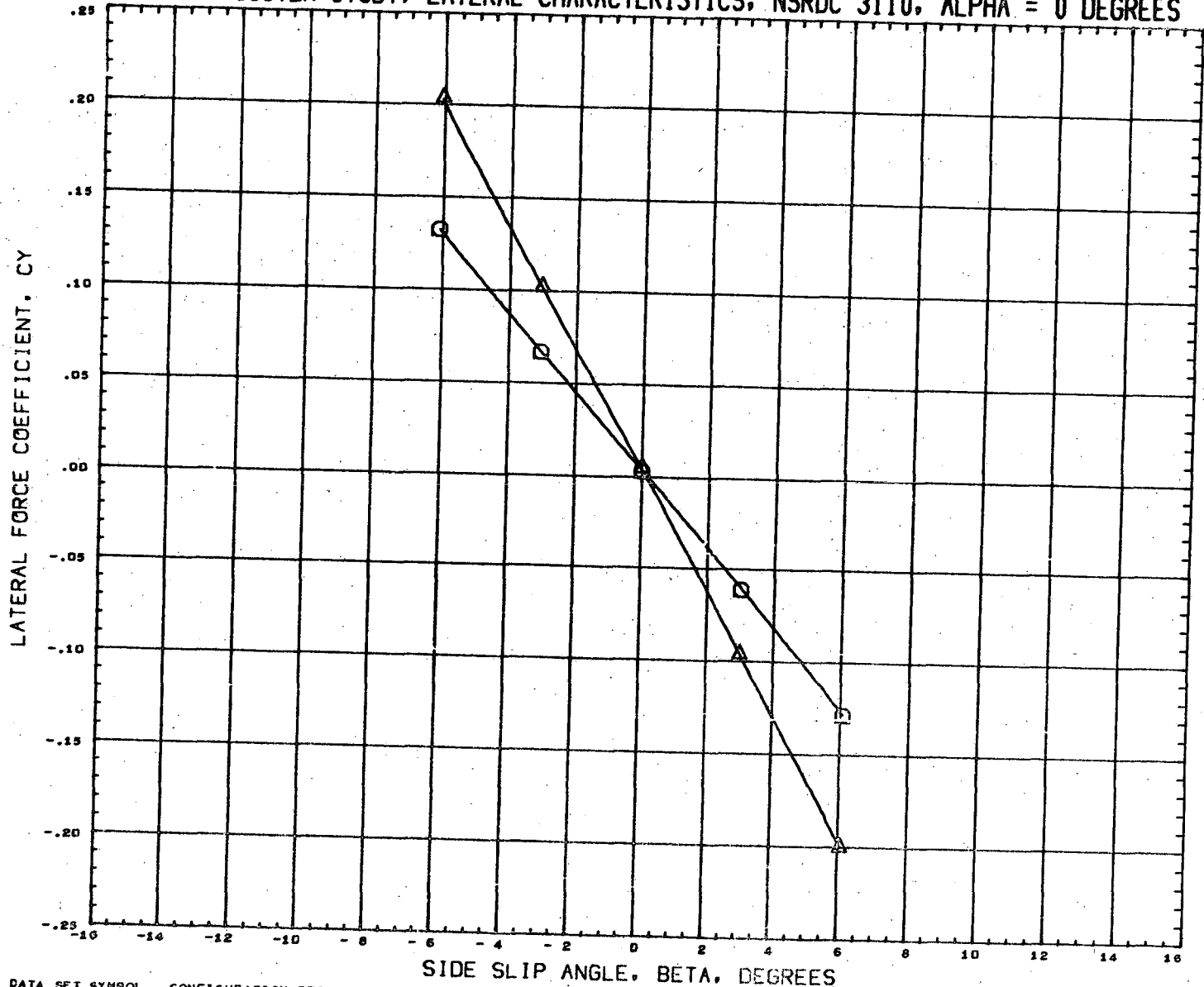


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2094)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2158)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

HACH 0.381

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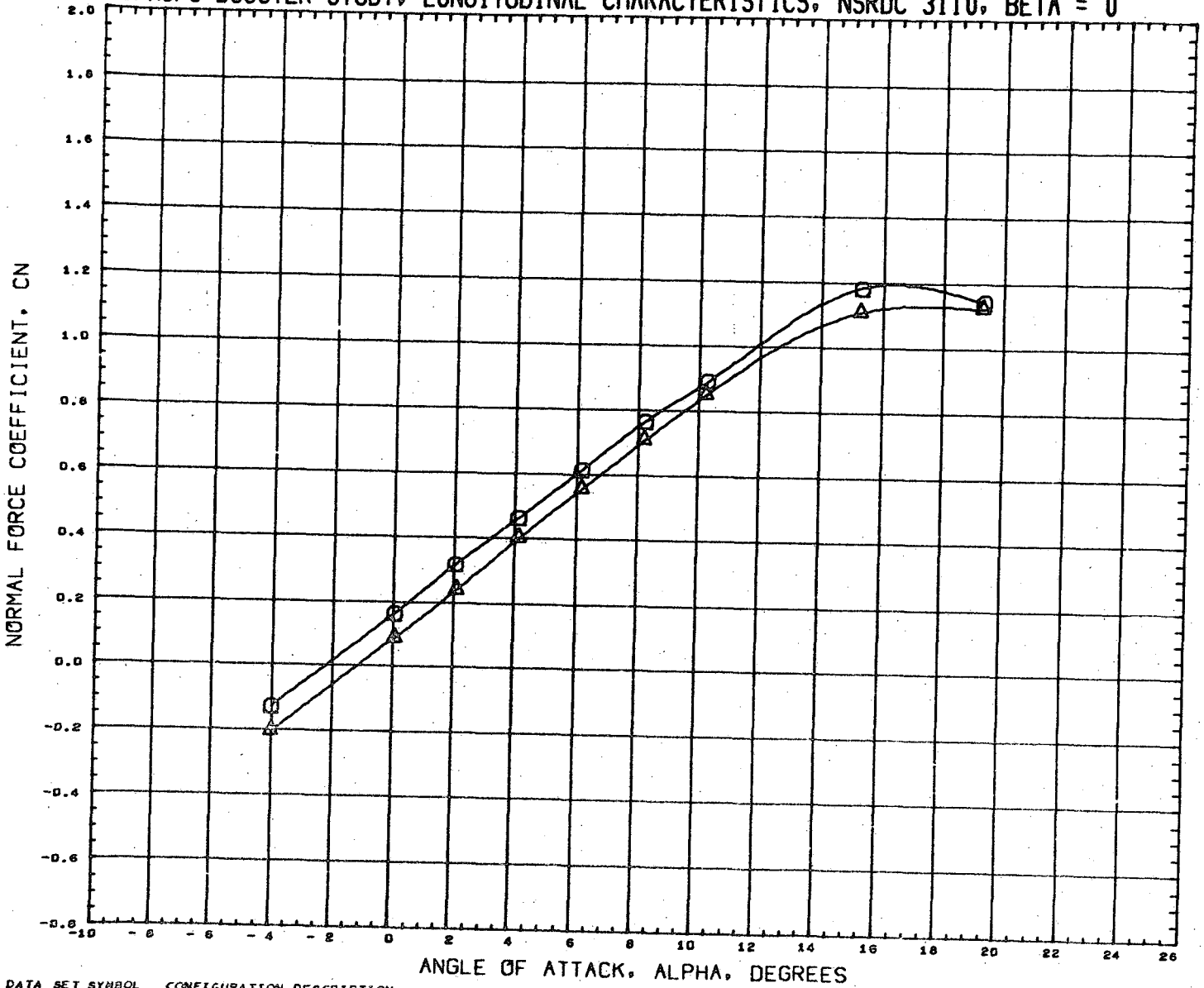
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2094)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	SREF 1.3550 SQ.FT.
(RN2158)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V201	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

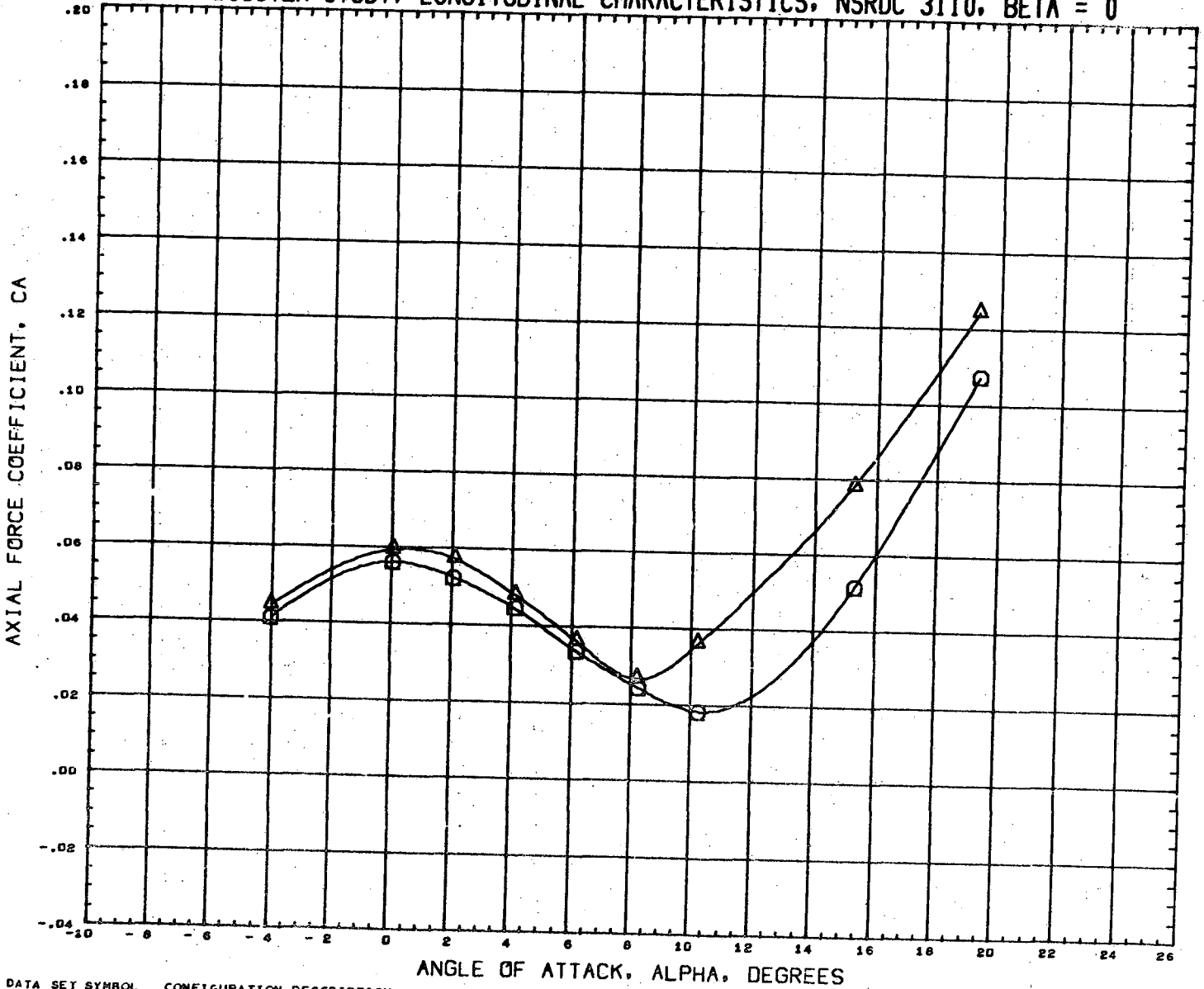


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RM2121)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RM2165)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

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LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



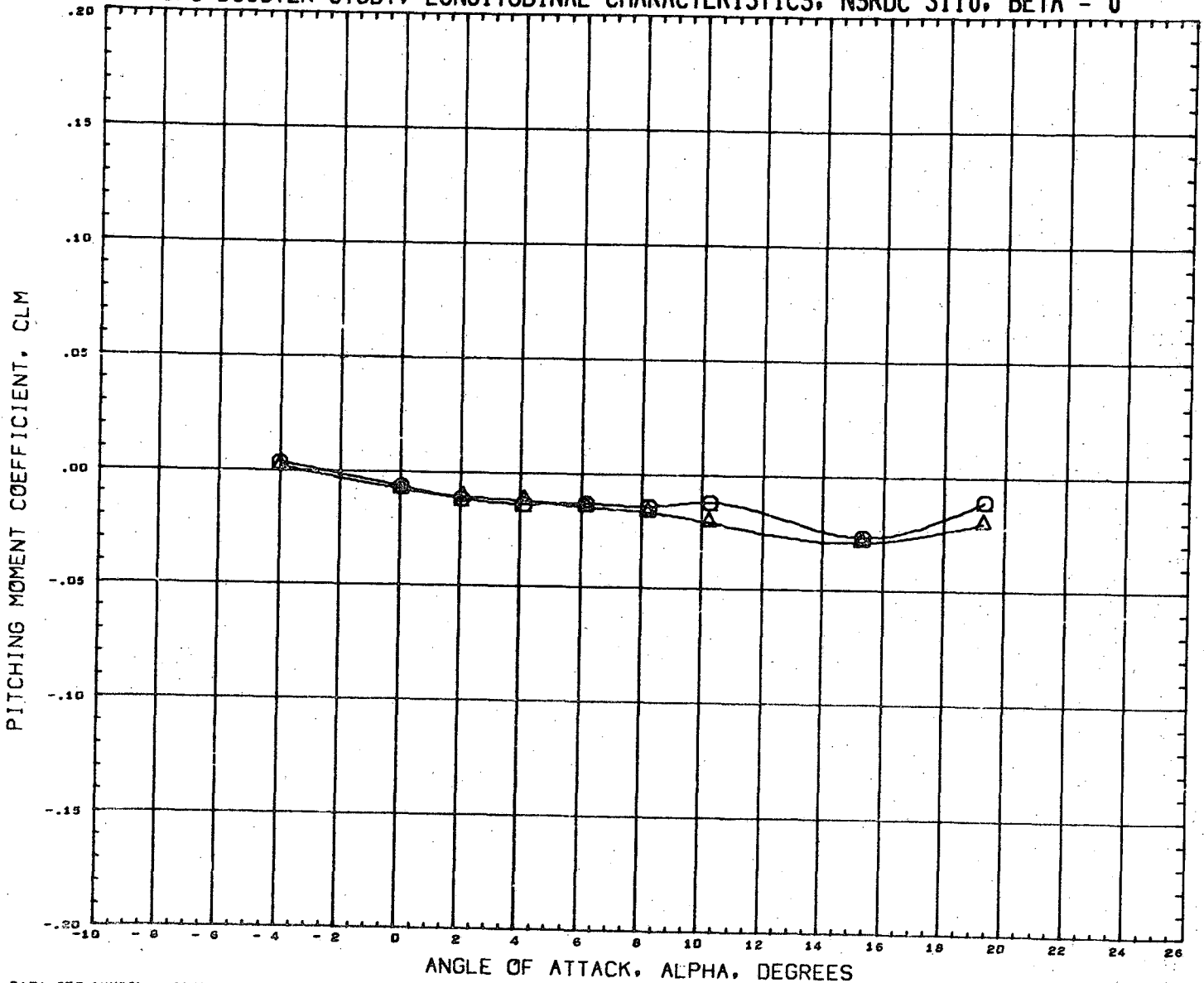
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2121)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2185)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.302

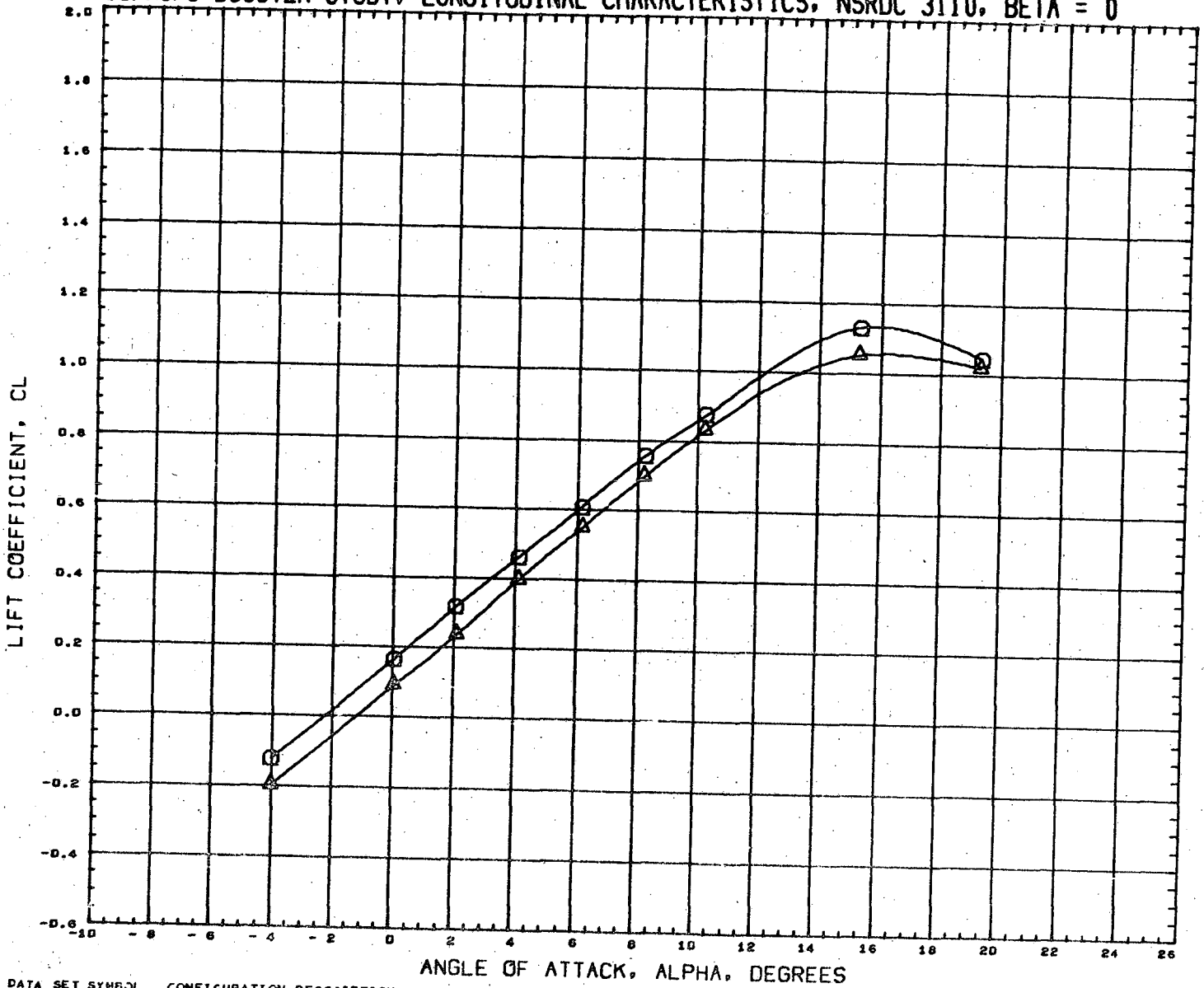
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2121)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2105)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

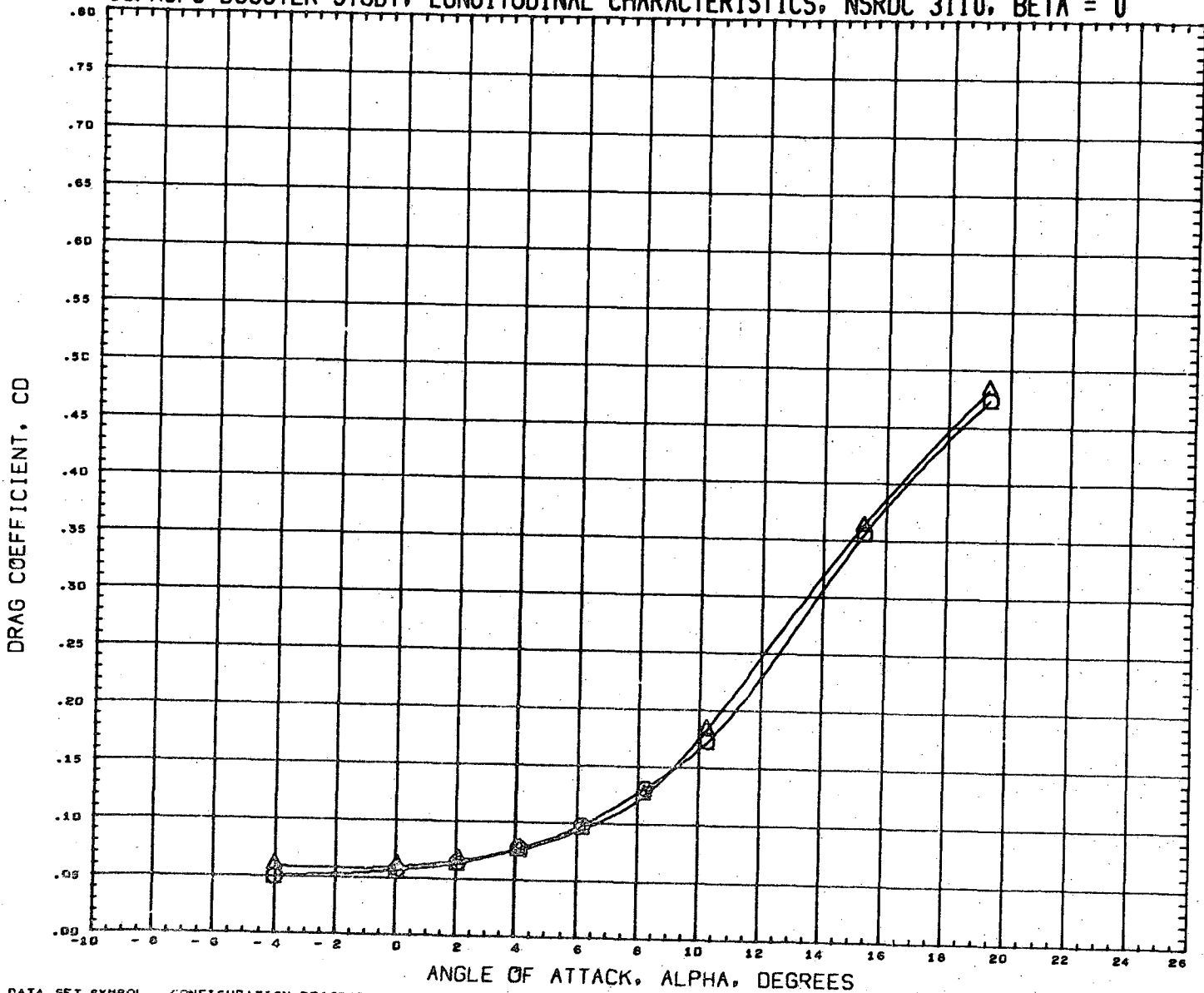
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2121)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2185)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

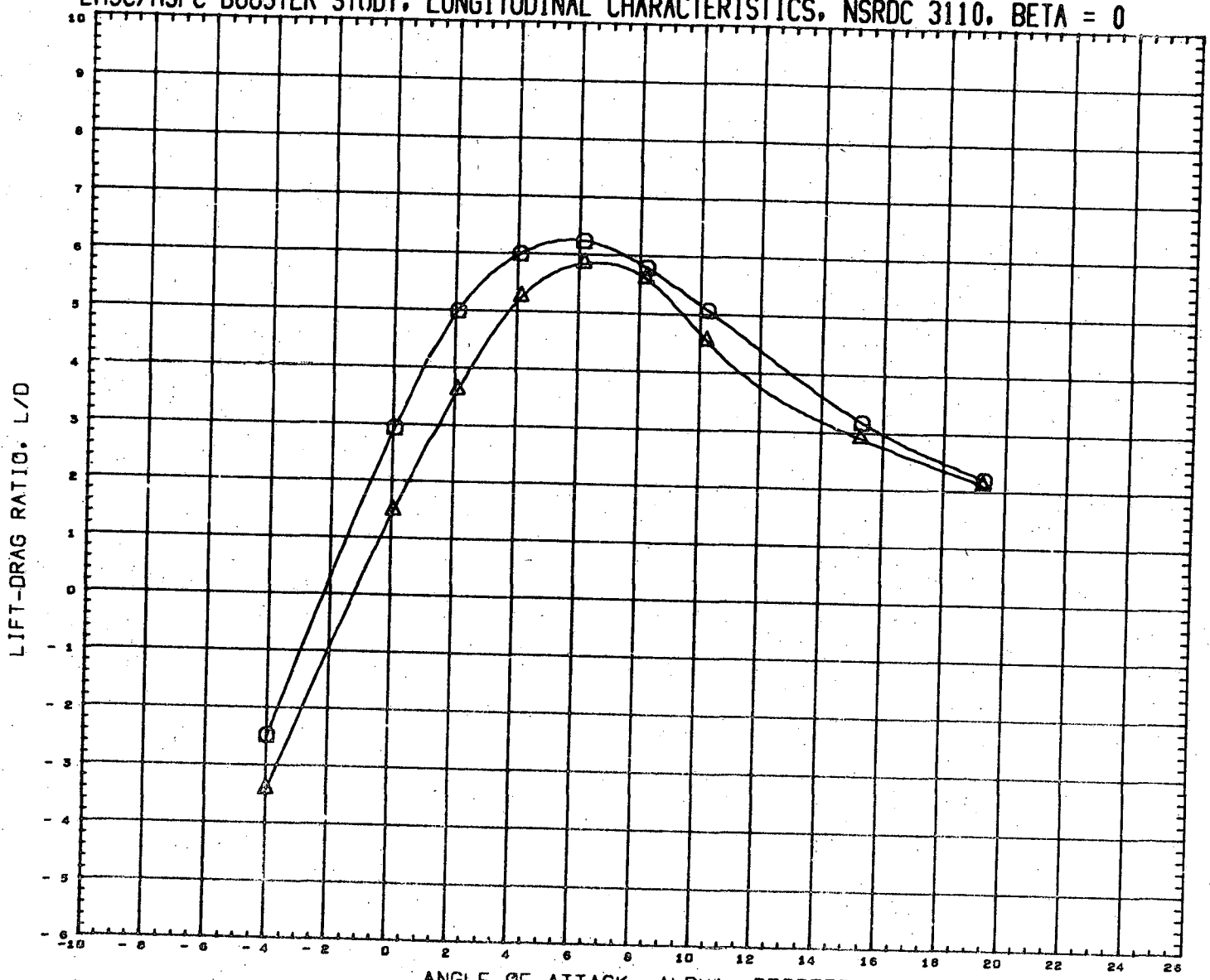
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2121)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2185)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

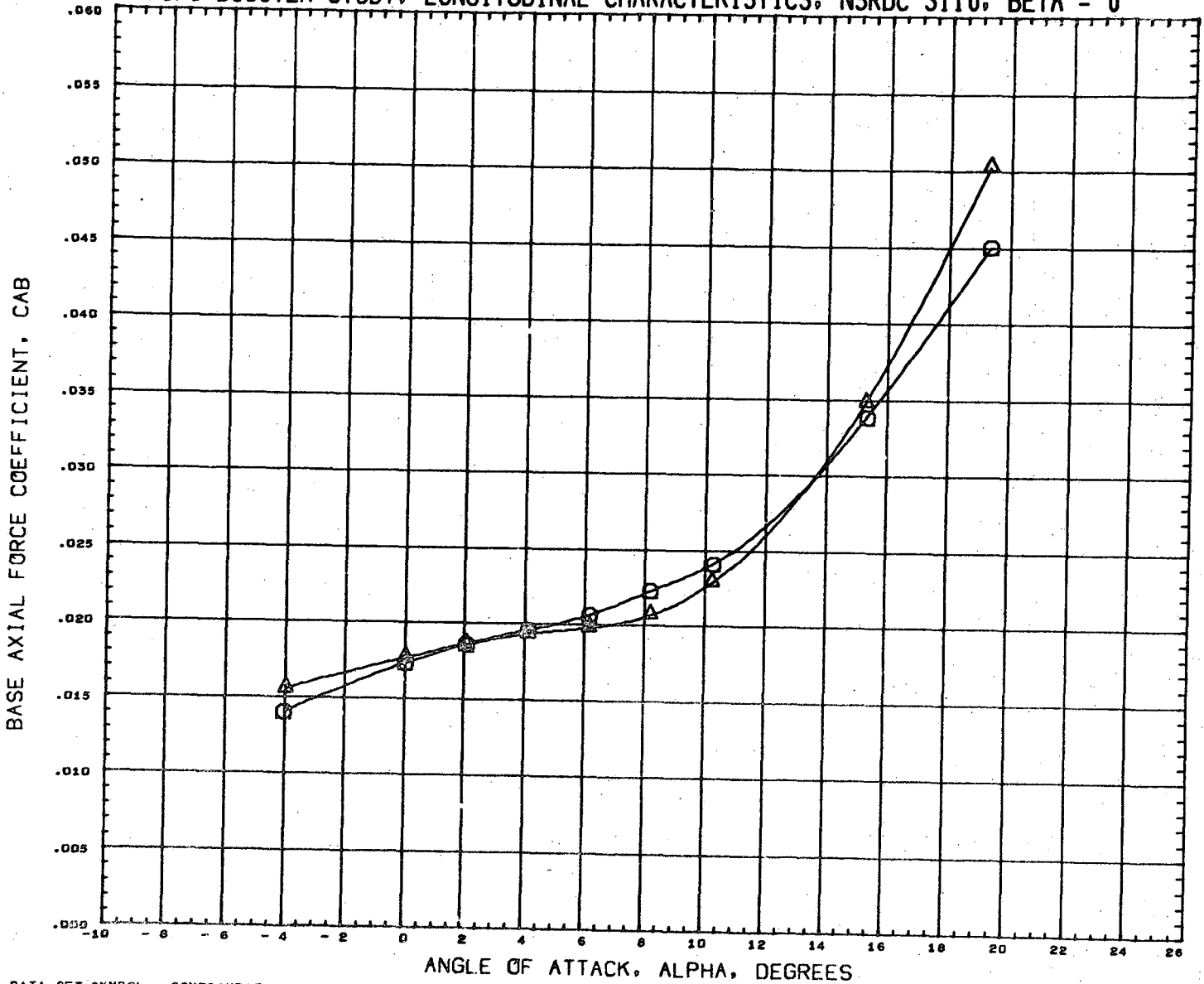
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2121)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	SREF	1.3550 SQ.FT.
(RN2185)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.392

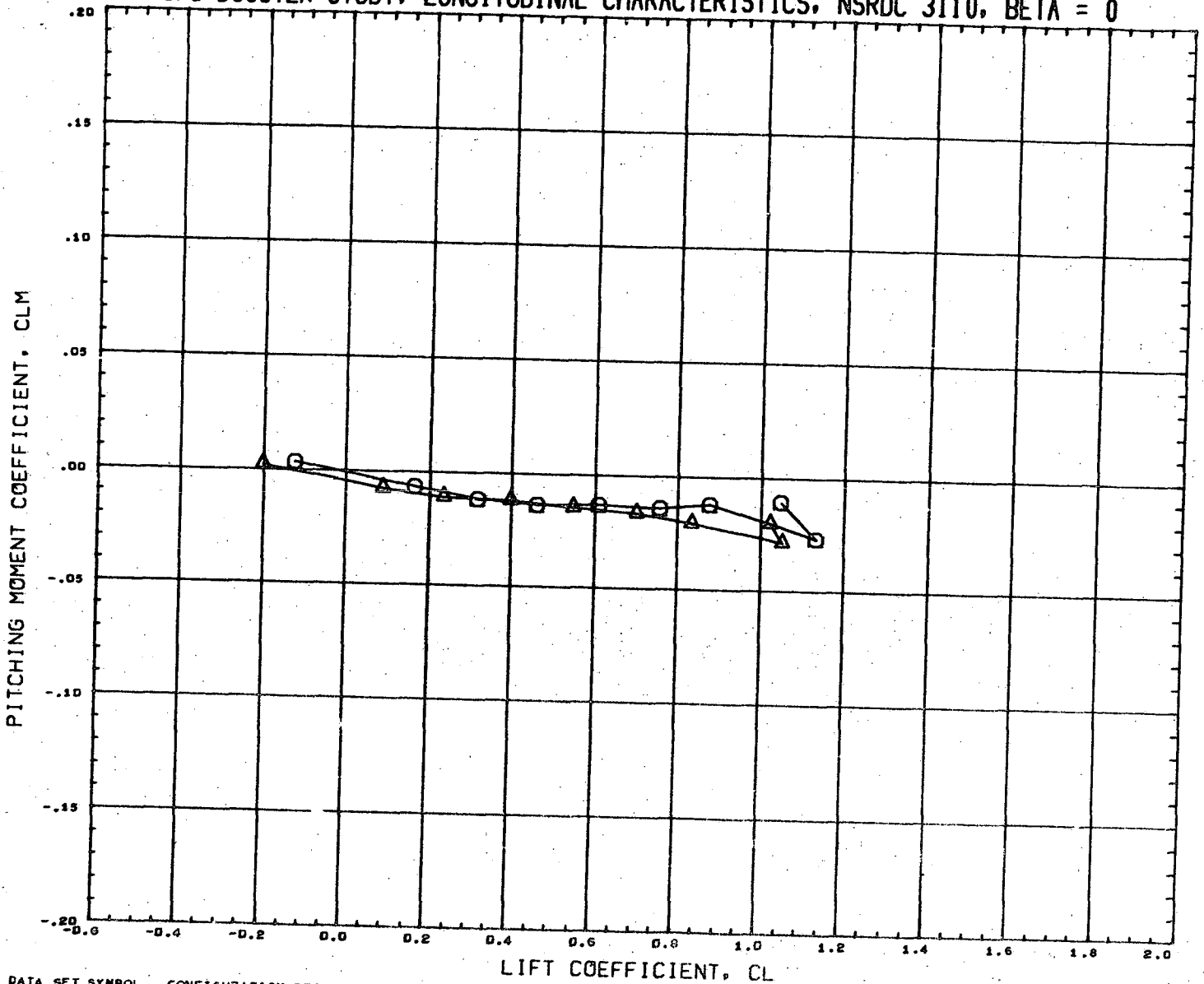
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2121) ○	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	SREF	1.3550 SQ. FT.
(RN2185) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.302

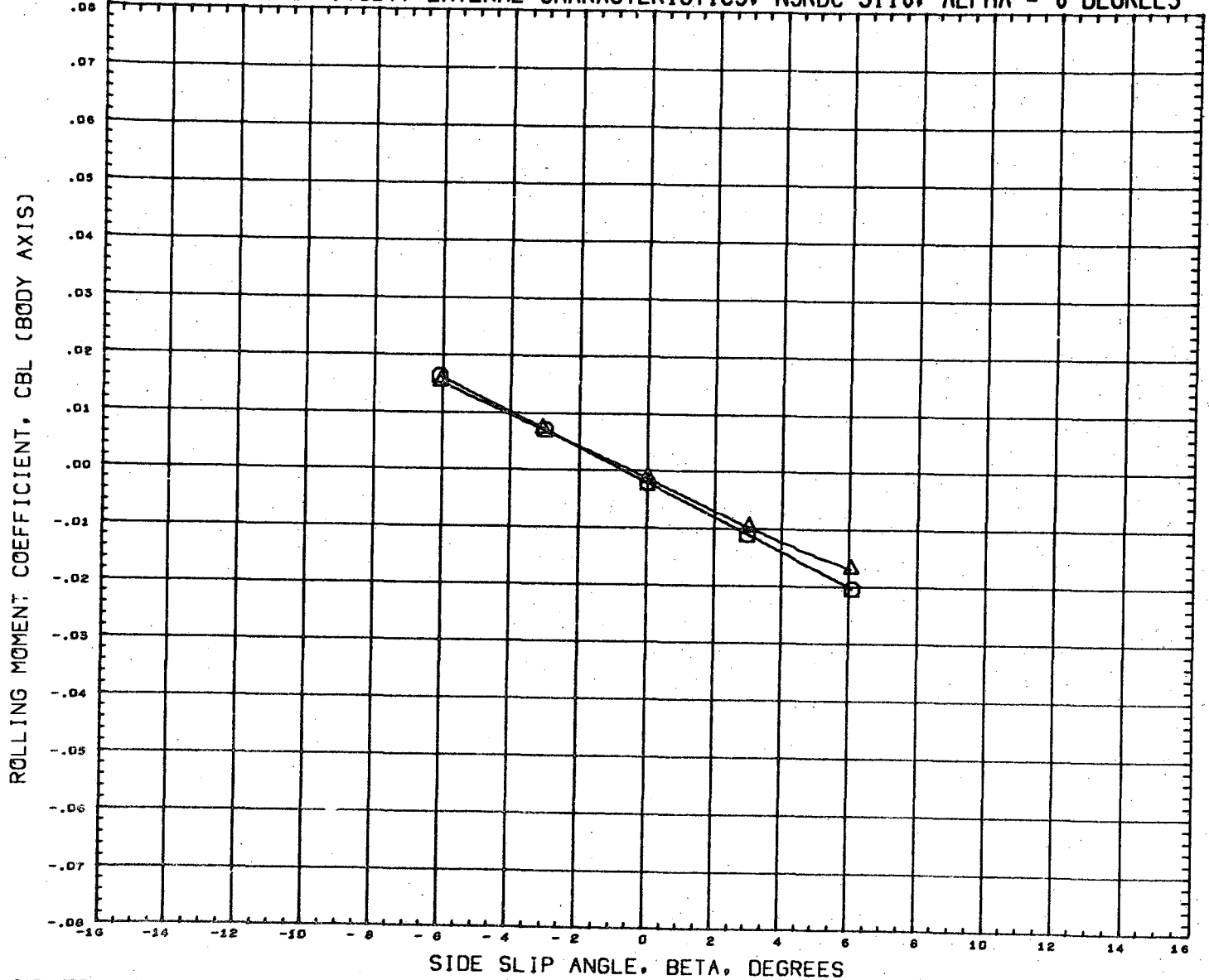
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2121)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2185)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

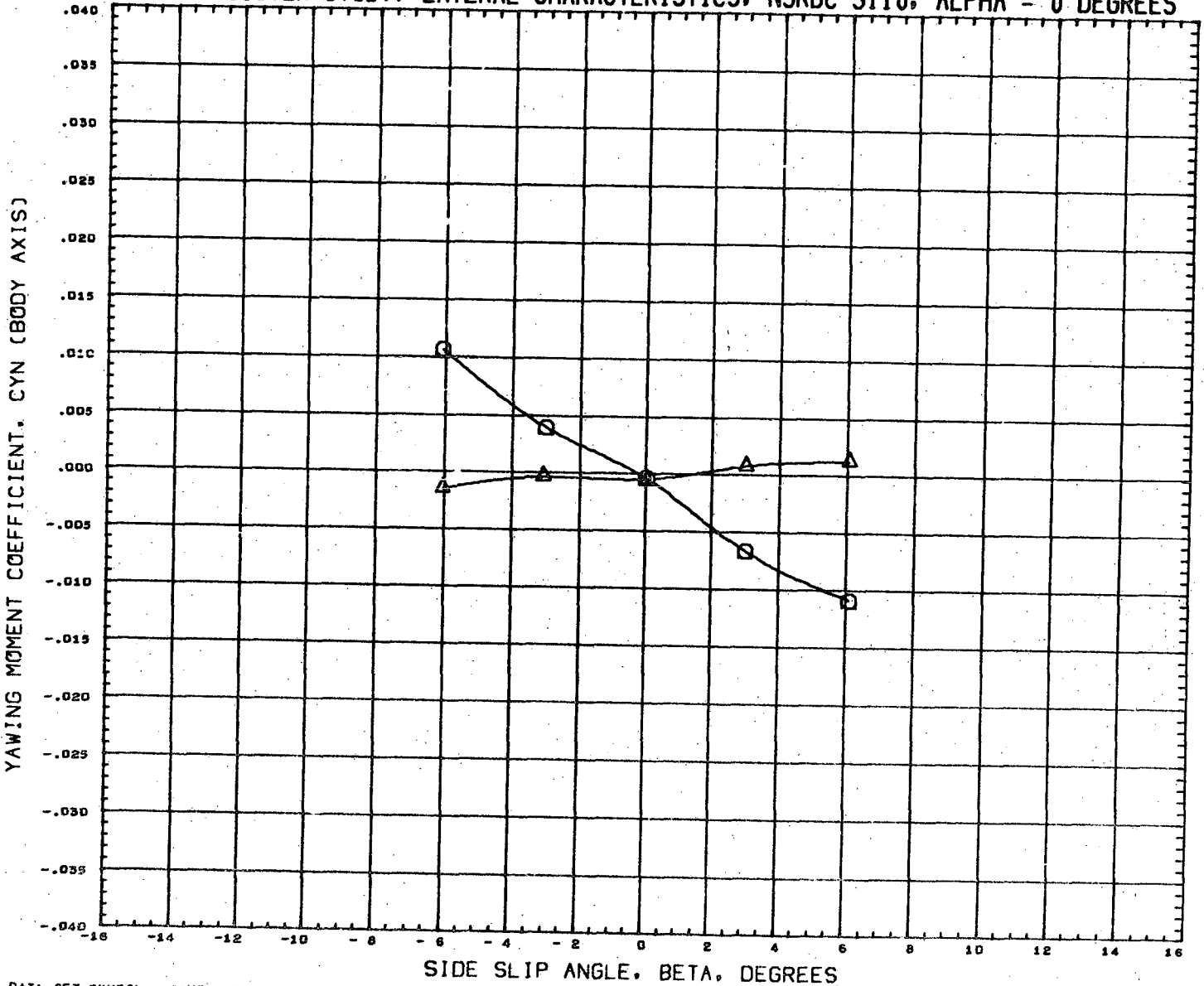
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2122)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2106)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

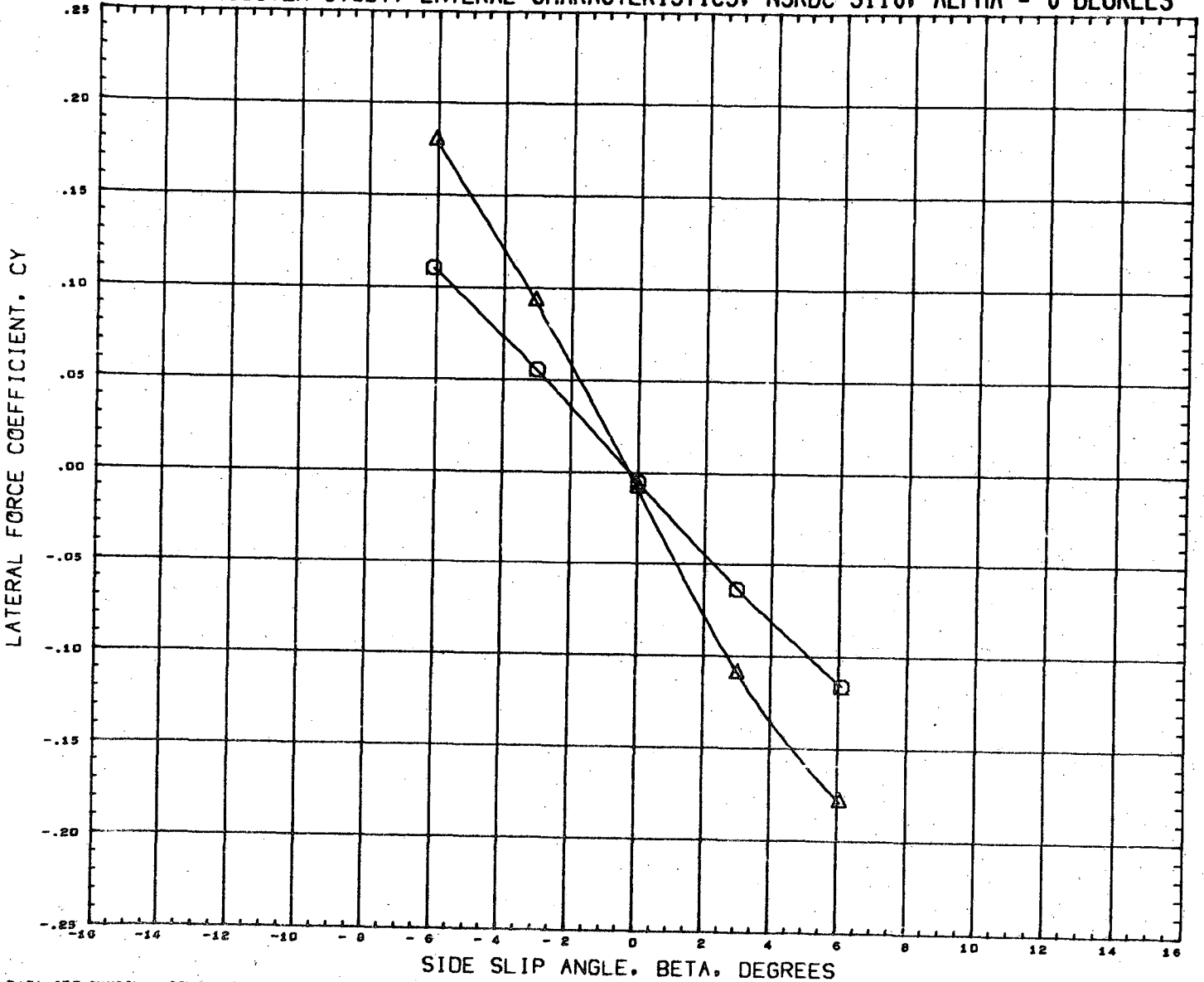
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2122)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2166)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
 (RN2122) 
 (RN2186) 

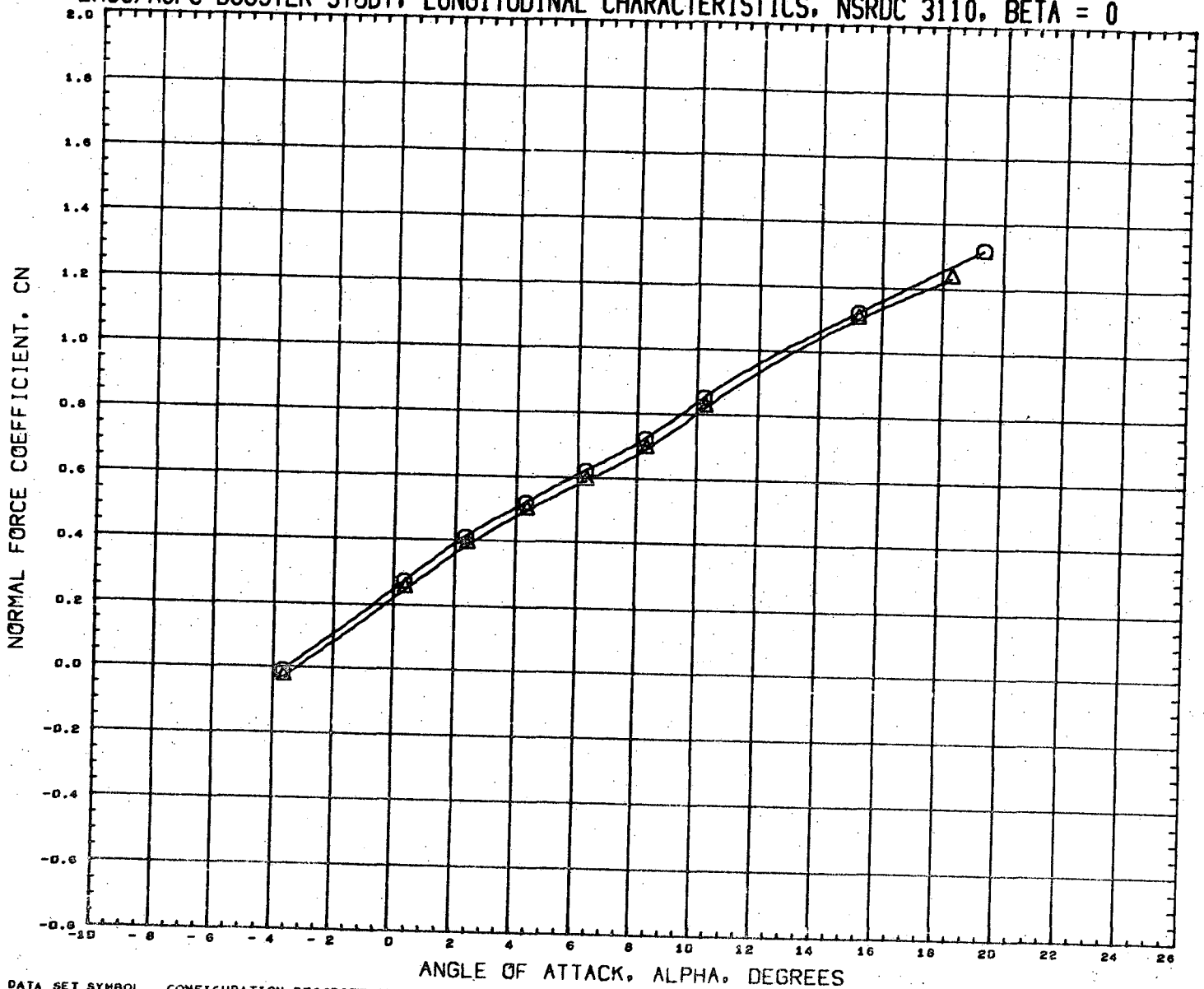
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.582

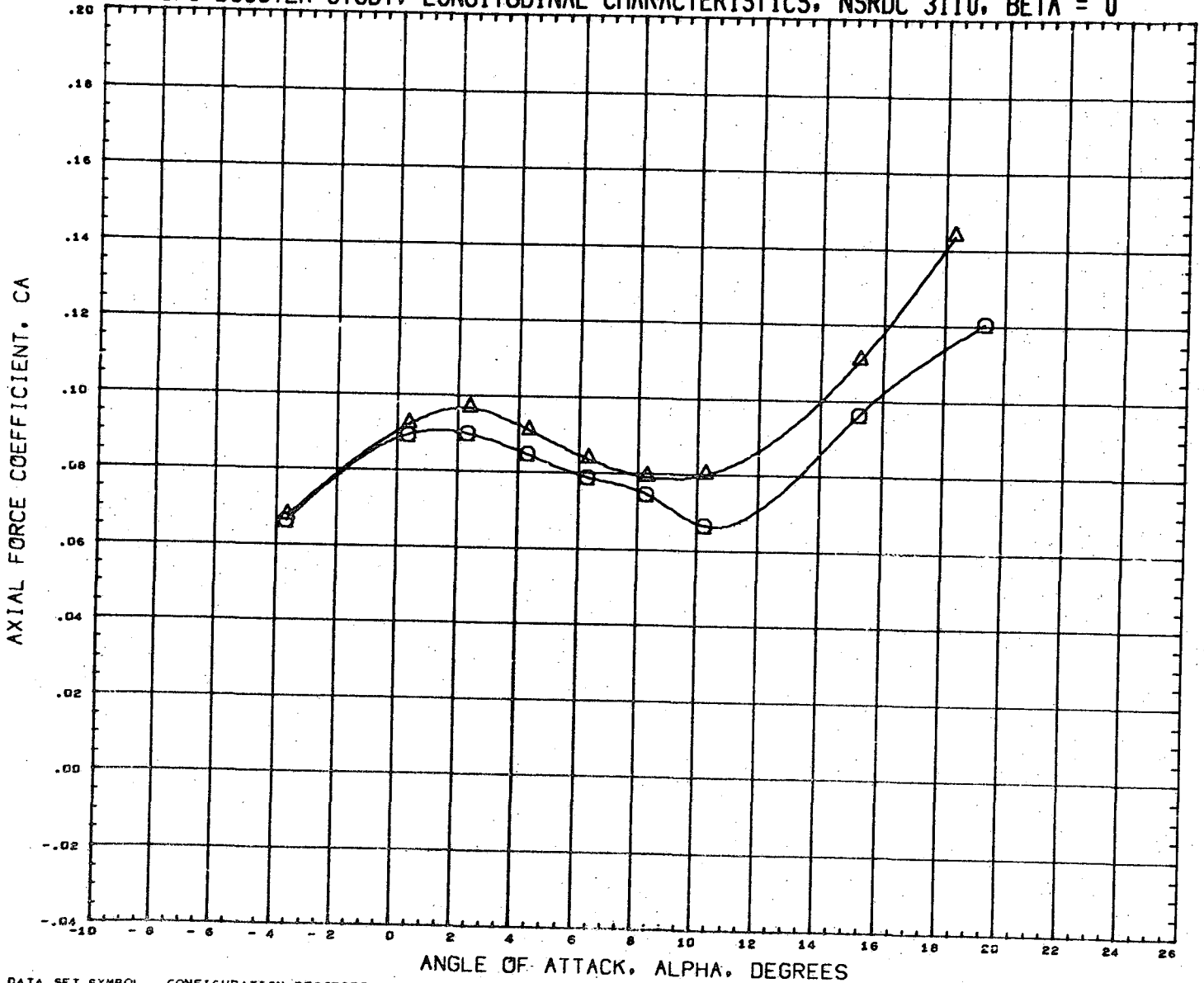
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2125)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2189)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2257 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

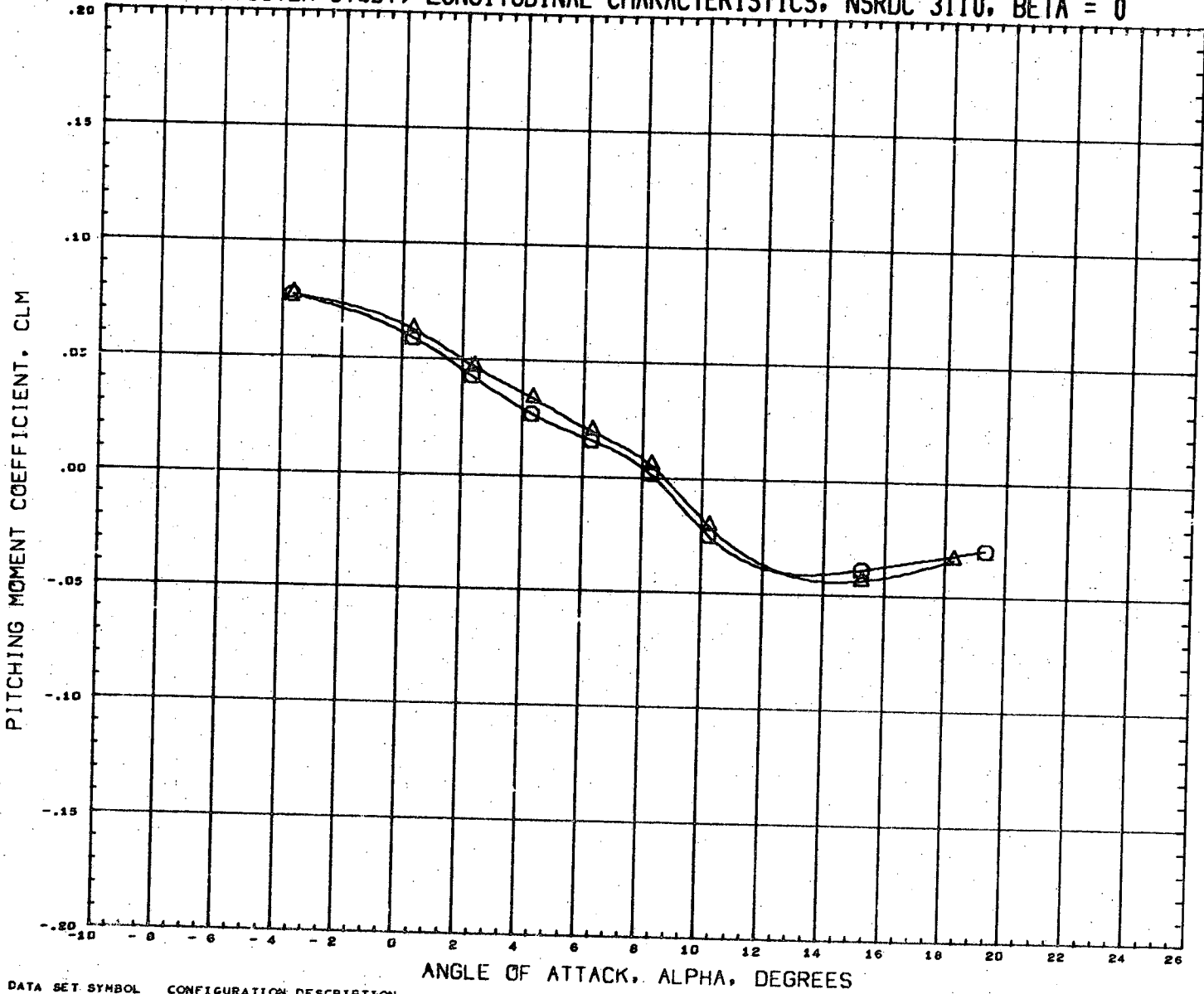
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2125)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	SREF	1.3550 SQ.FT.
(RN2189)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.382

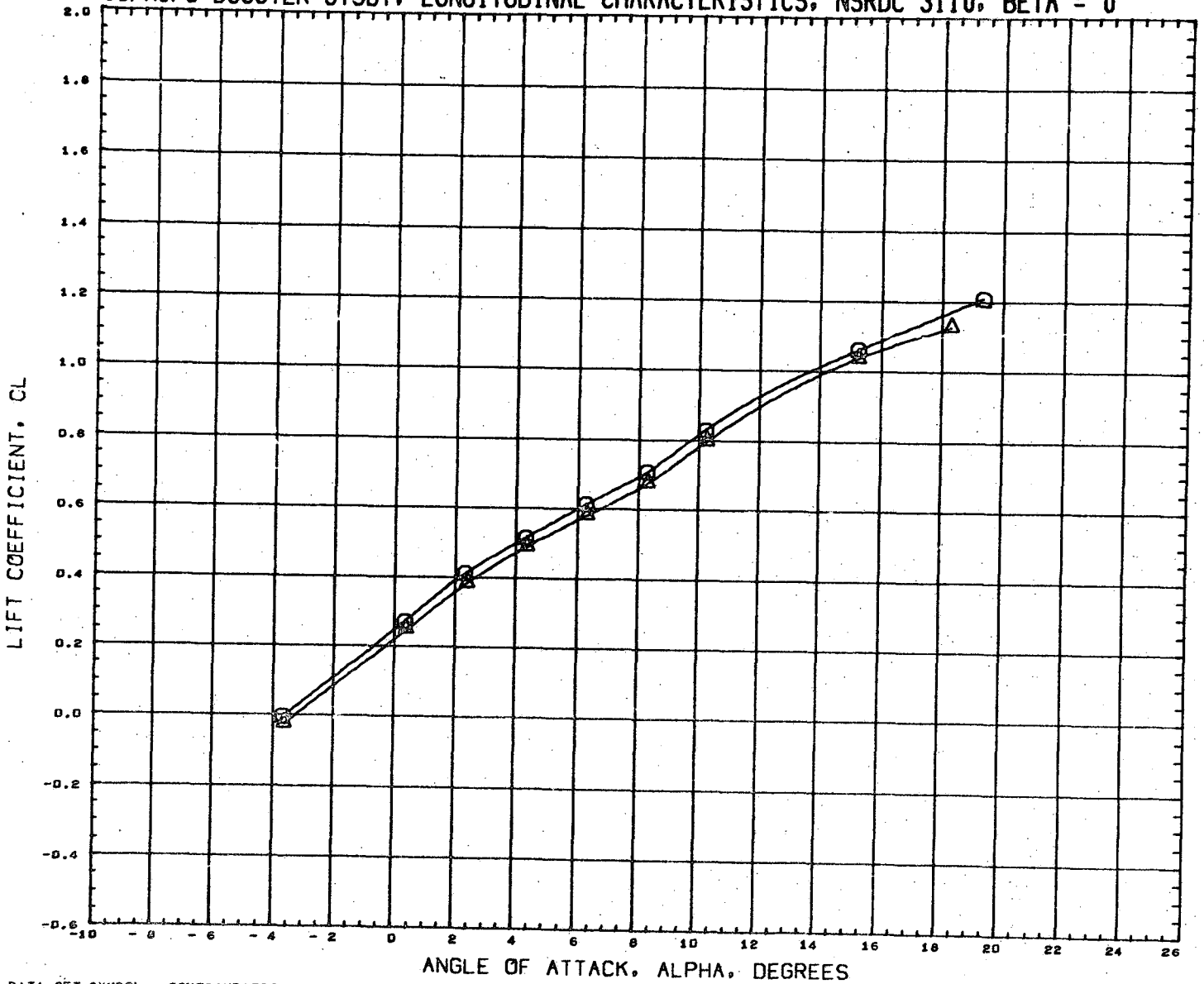
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2125)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2189)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

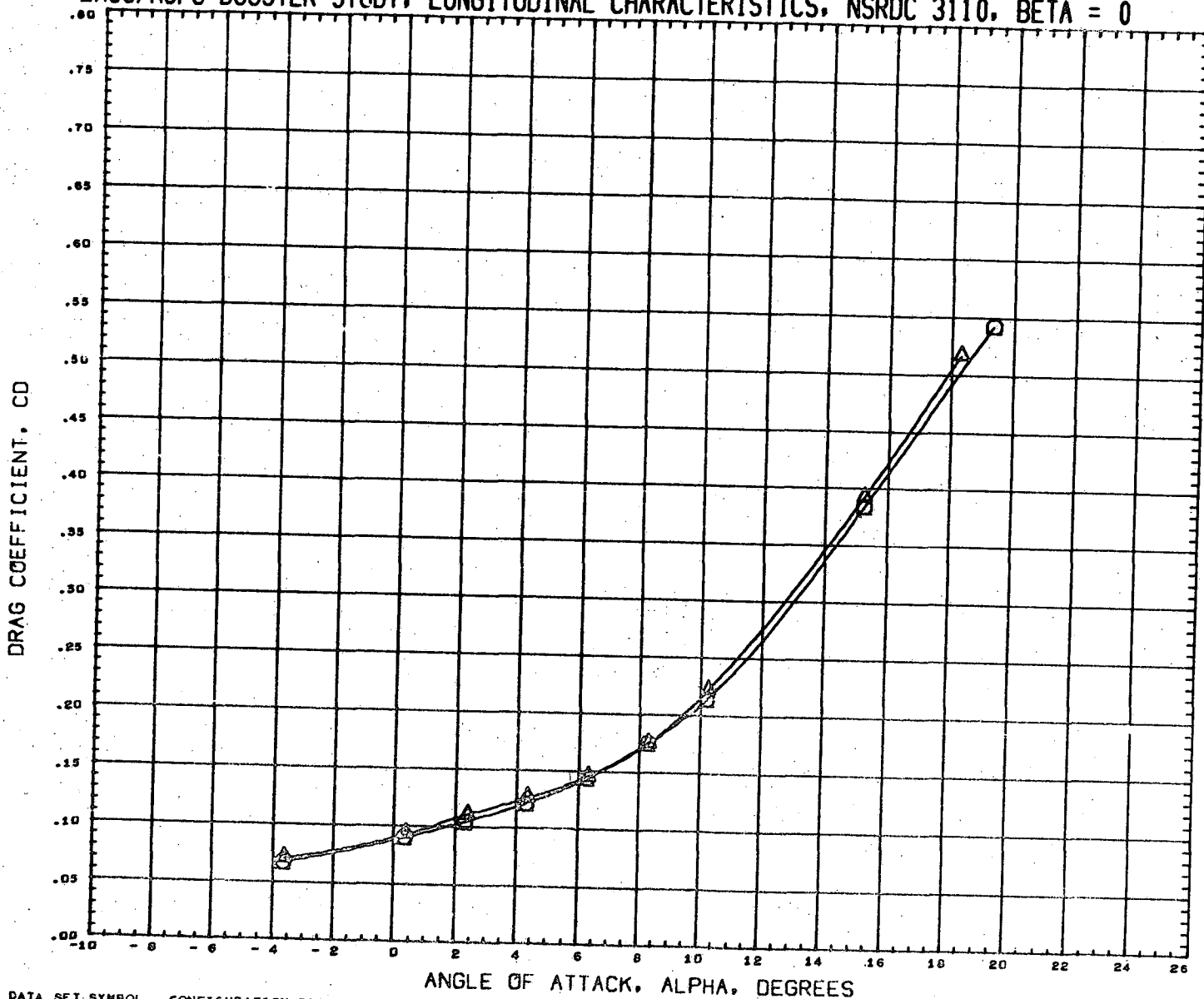
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2125)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2189)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



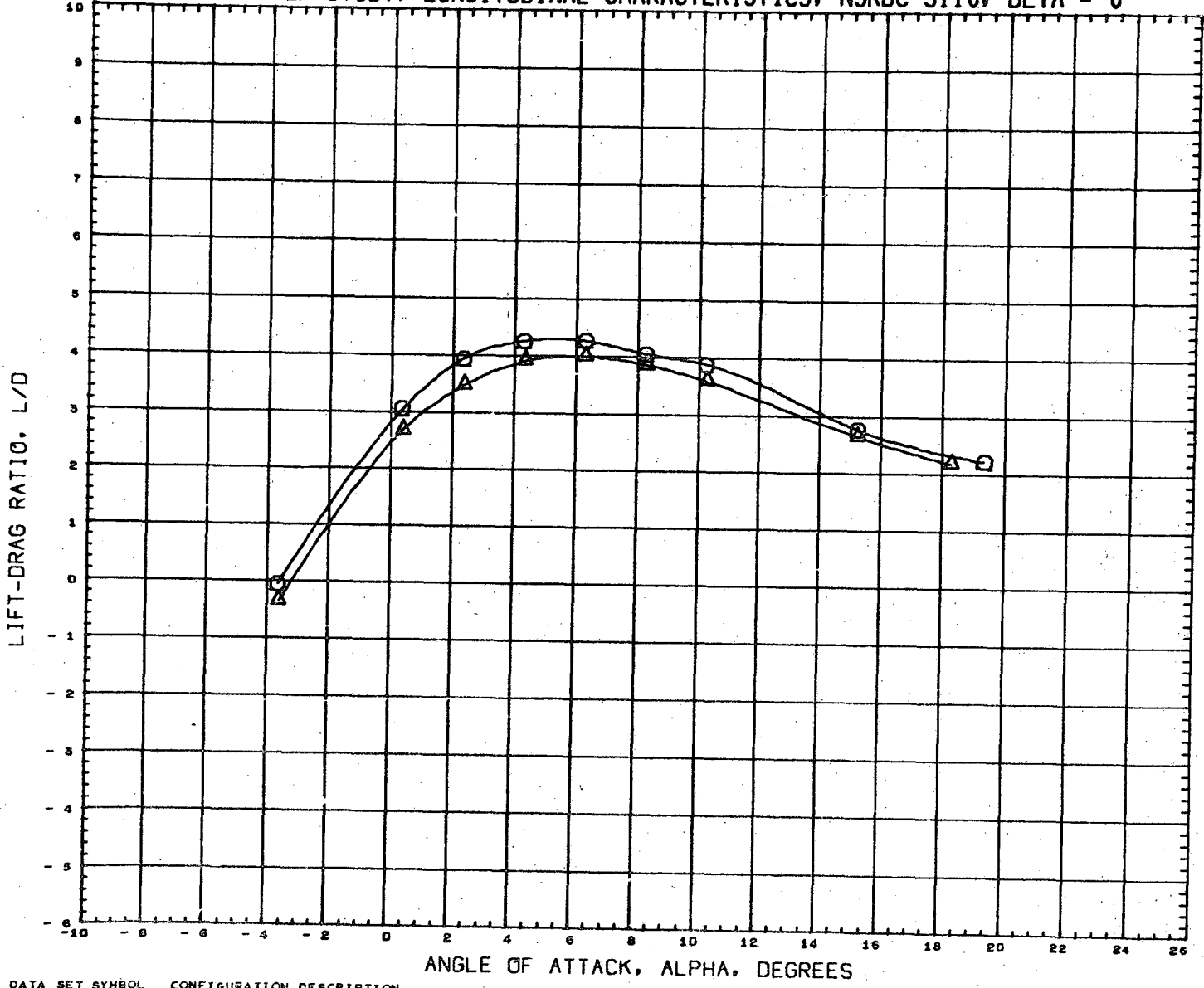
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2125)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2189)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	2.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XHRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.382

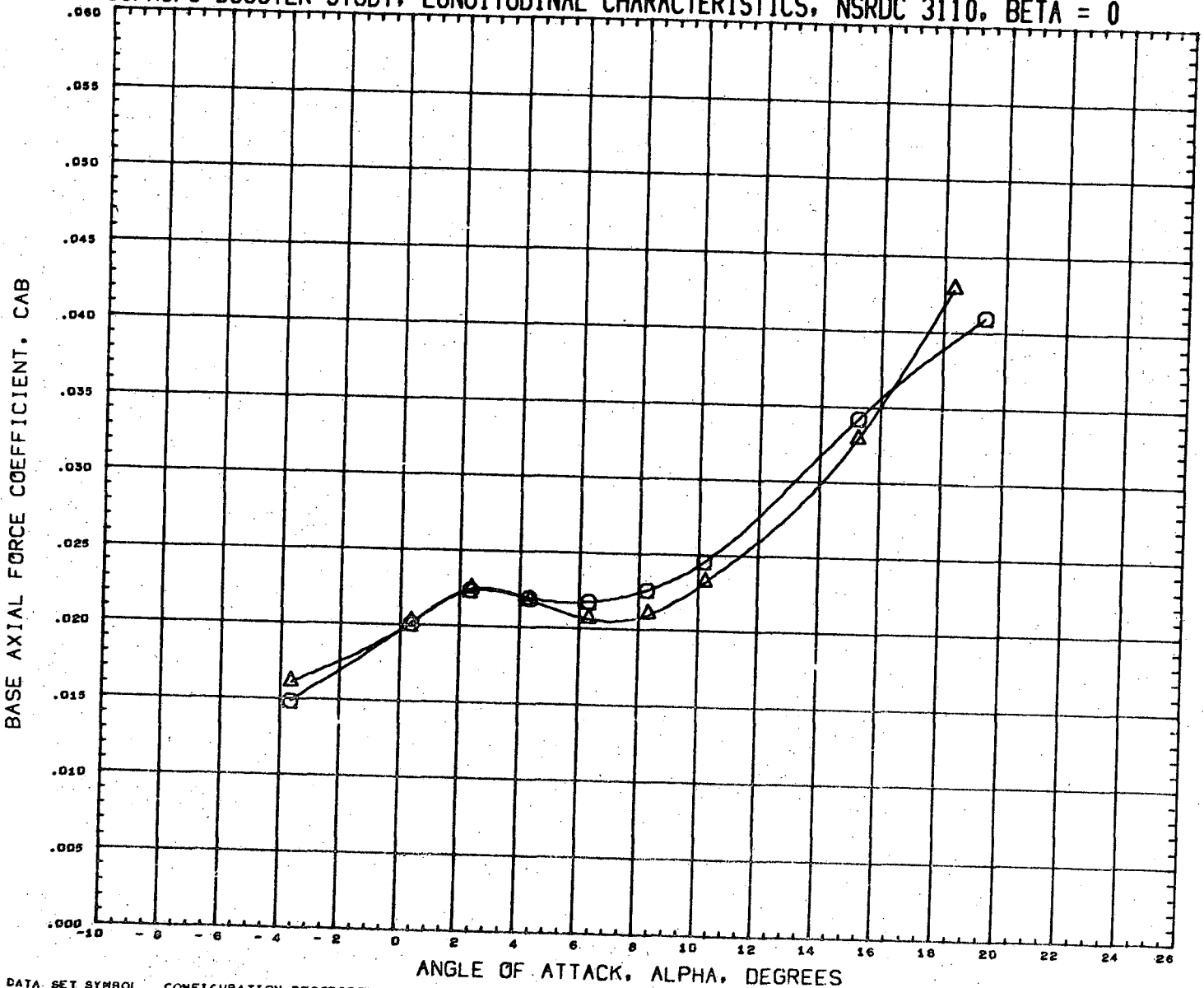
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2125)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2109)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.302

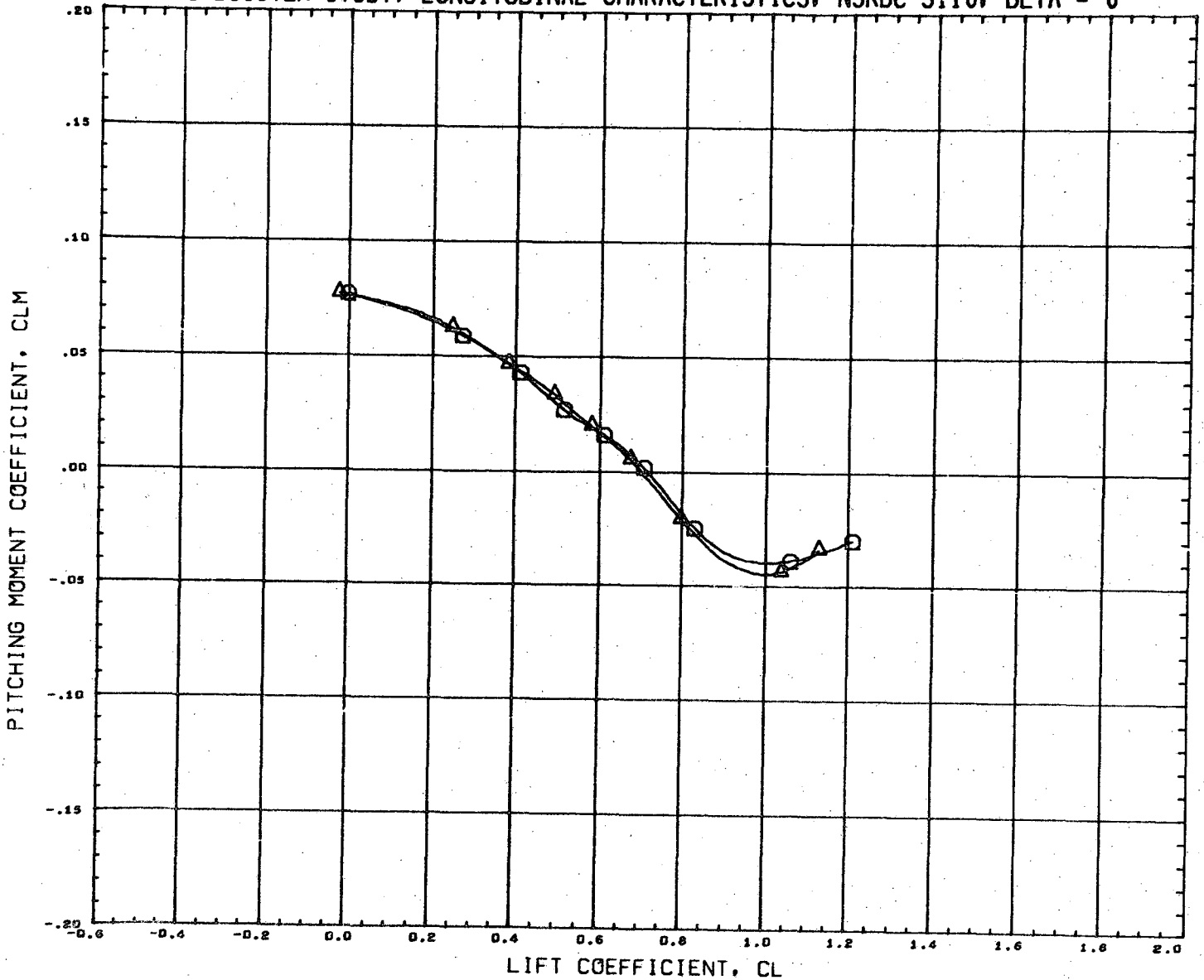
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2125)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2189)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

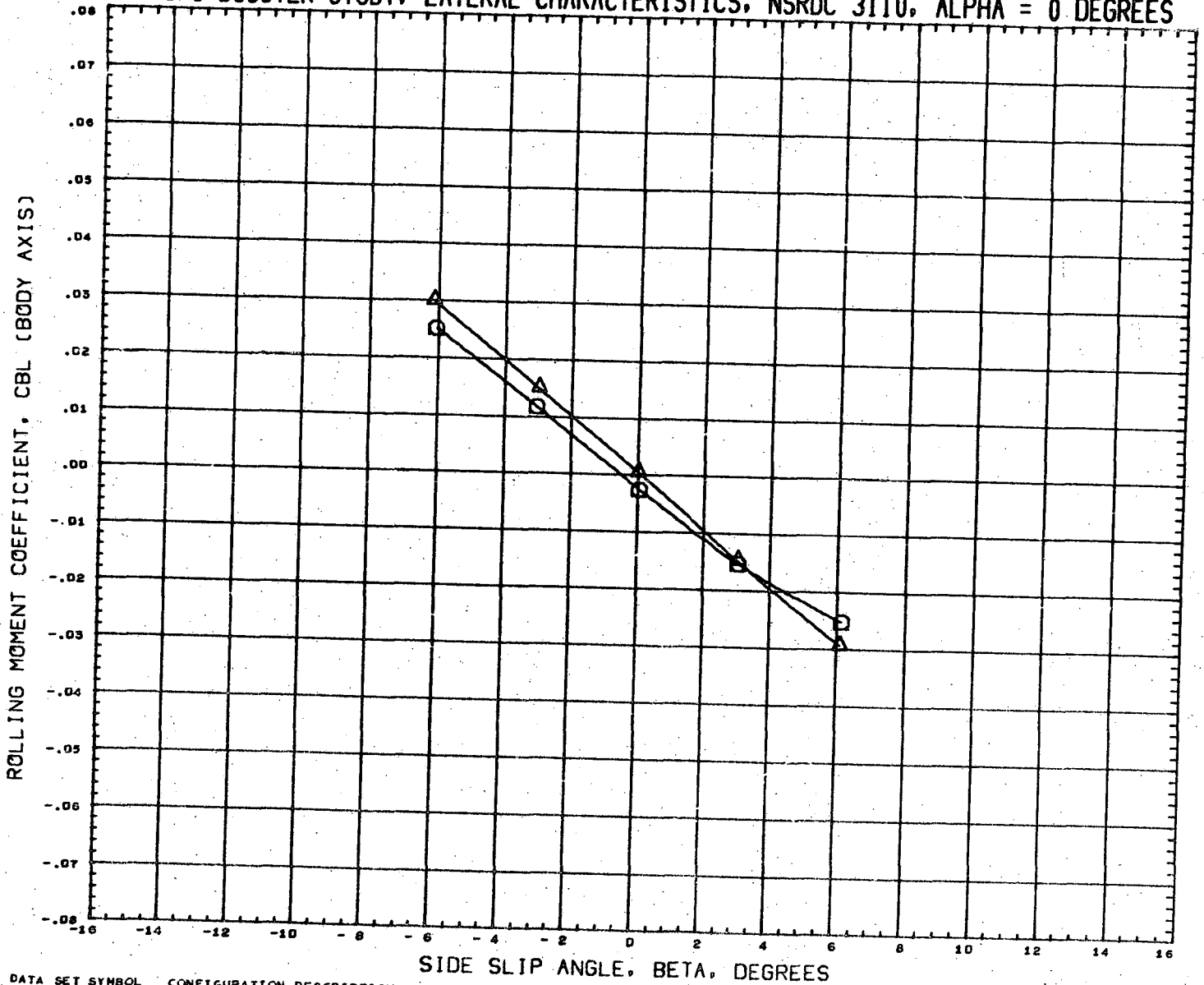
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2125)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	SREF	1.3550 SQ.FT.
(RN2189)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.382

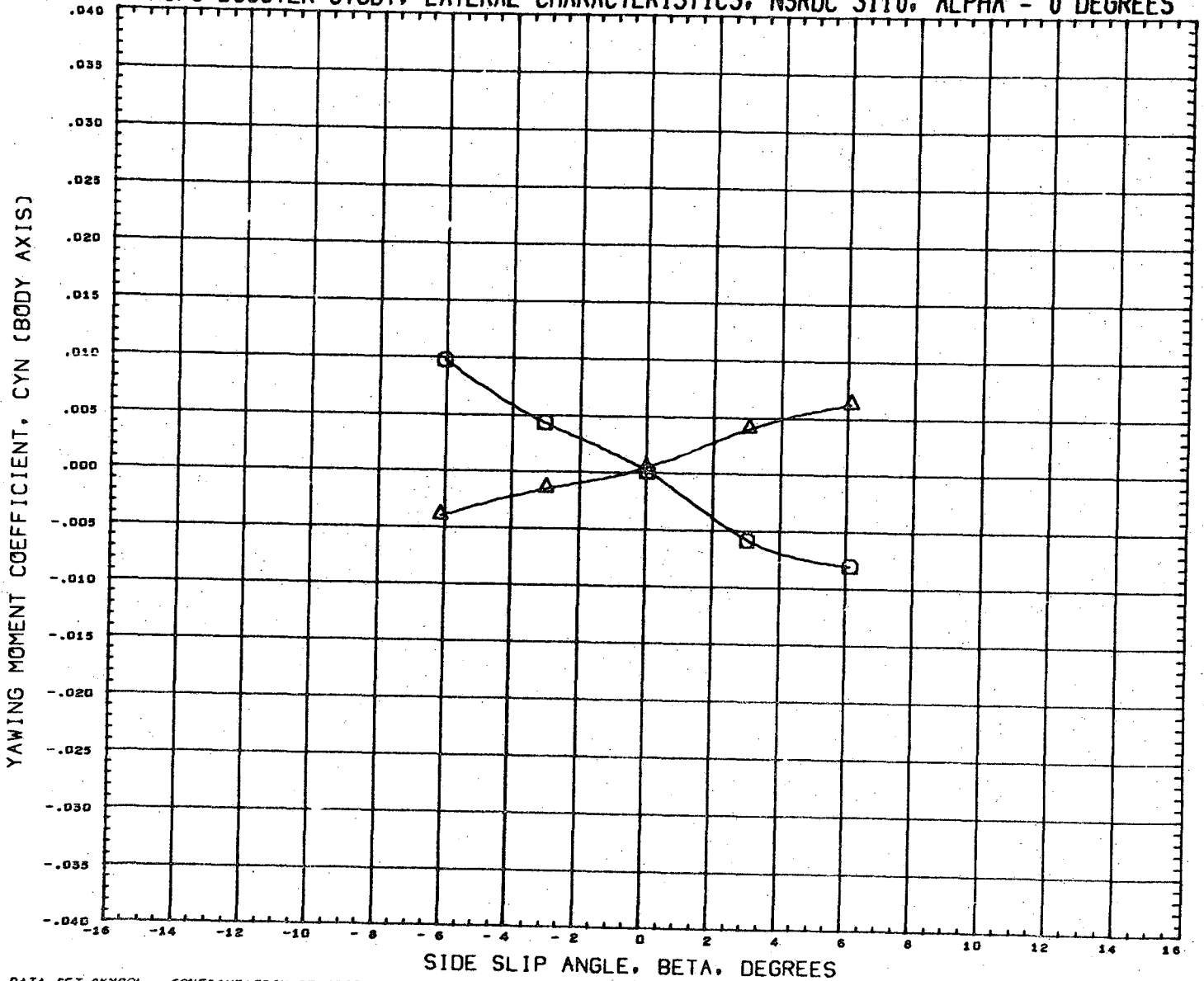
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2126)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ.FT.
(RN2190)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

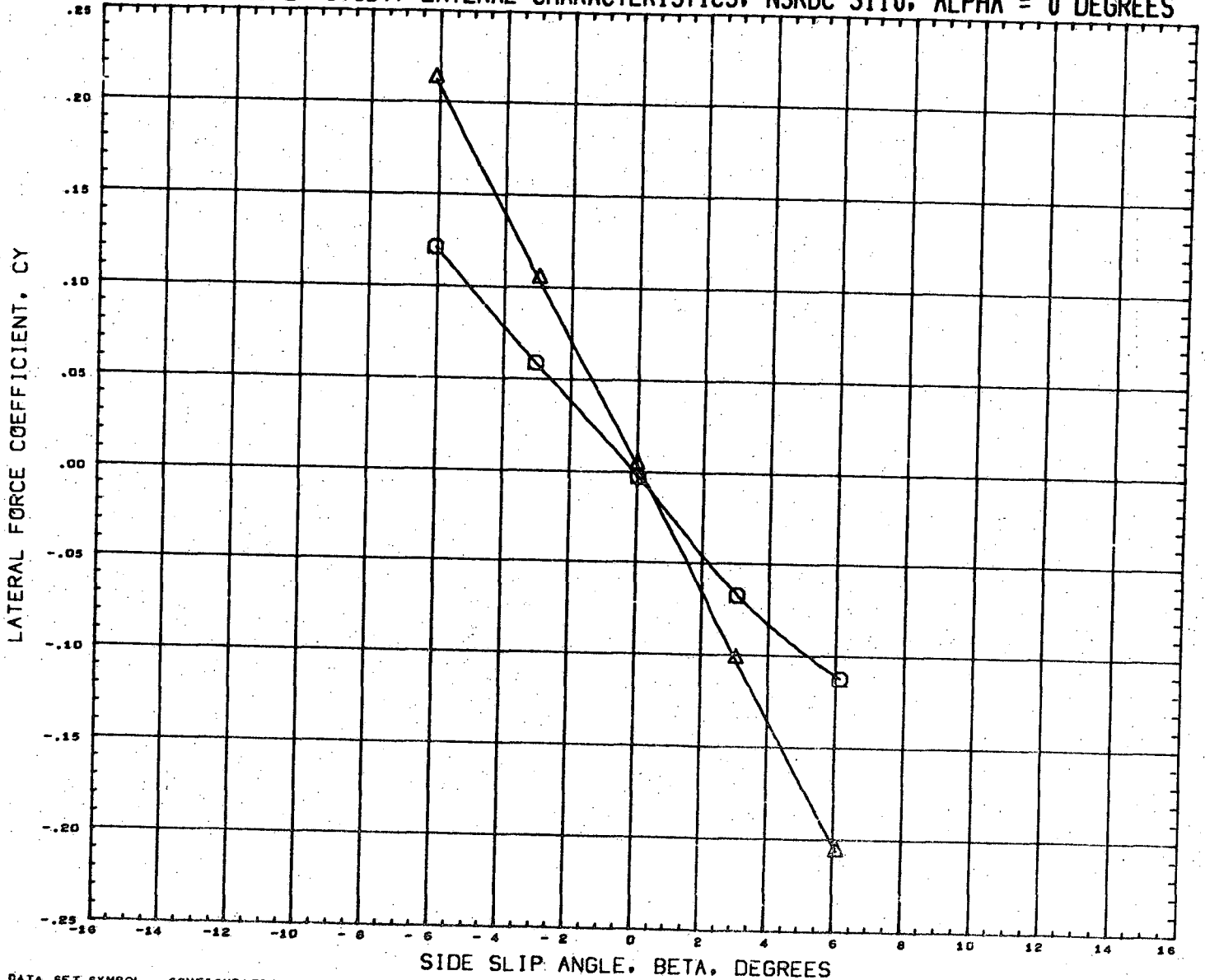
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNRPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2126) □	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	SREF 1.3550 SQ. FT.
(RN2190) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 6.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2126)
(RN2190)



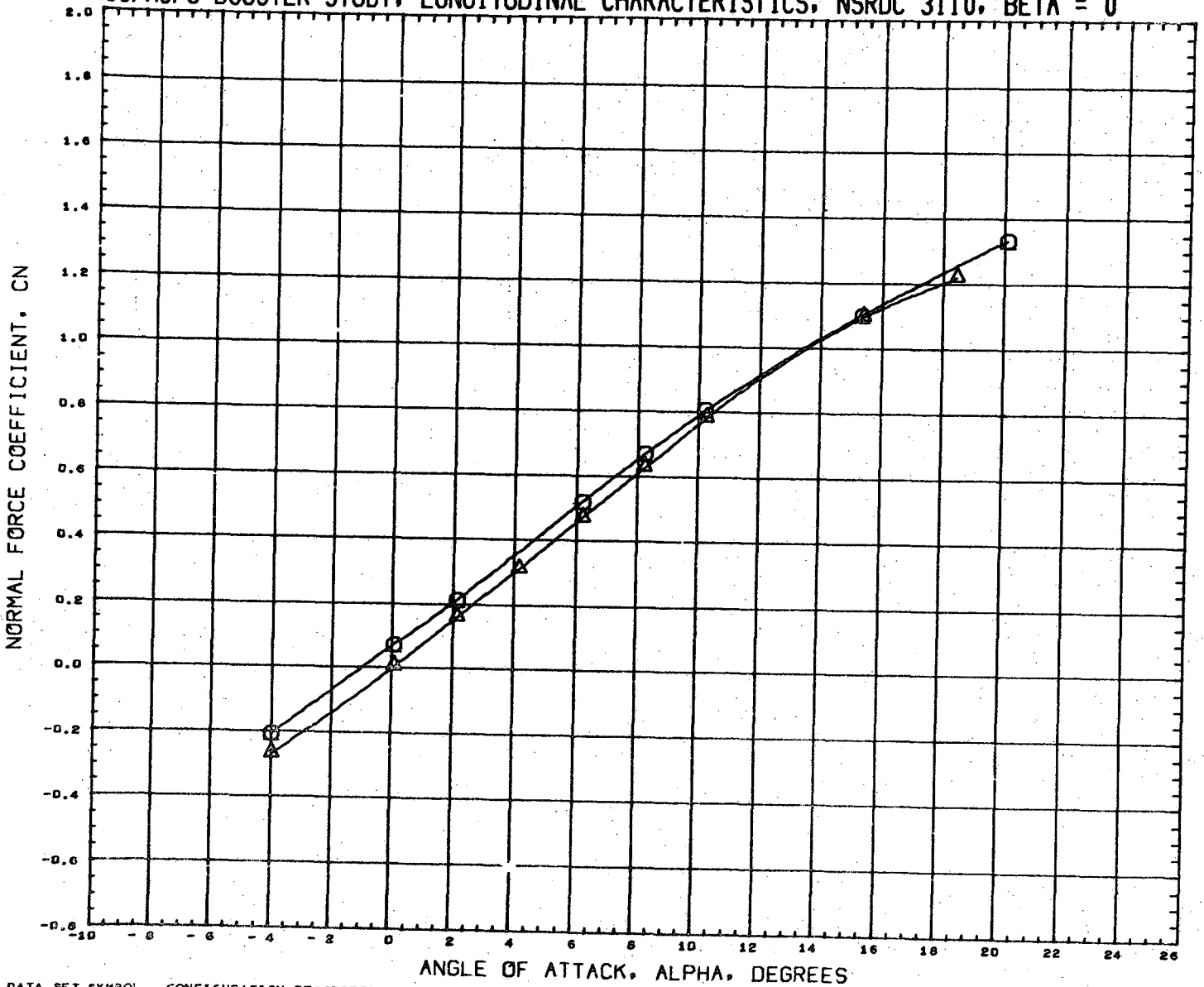
CONFIGURATION DESCRIPTION
NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	2.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.361

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



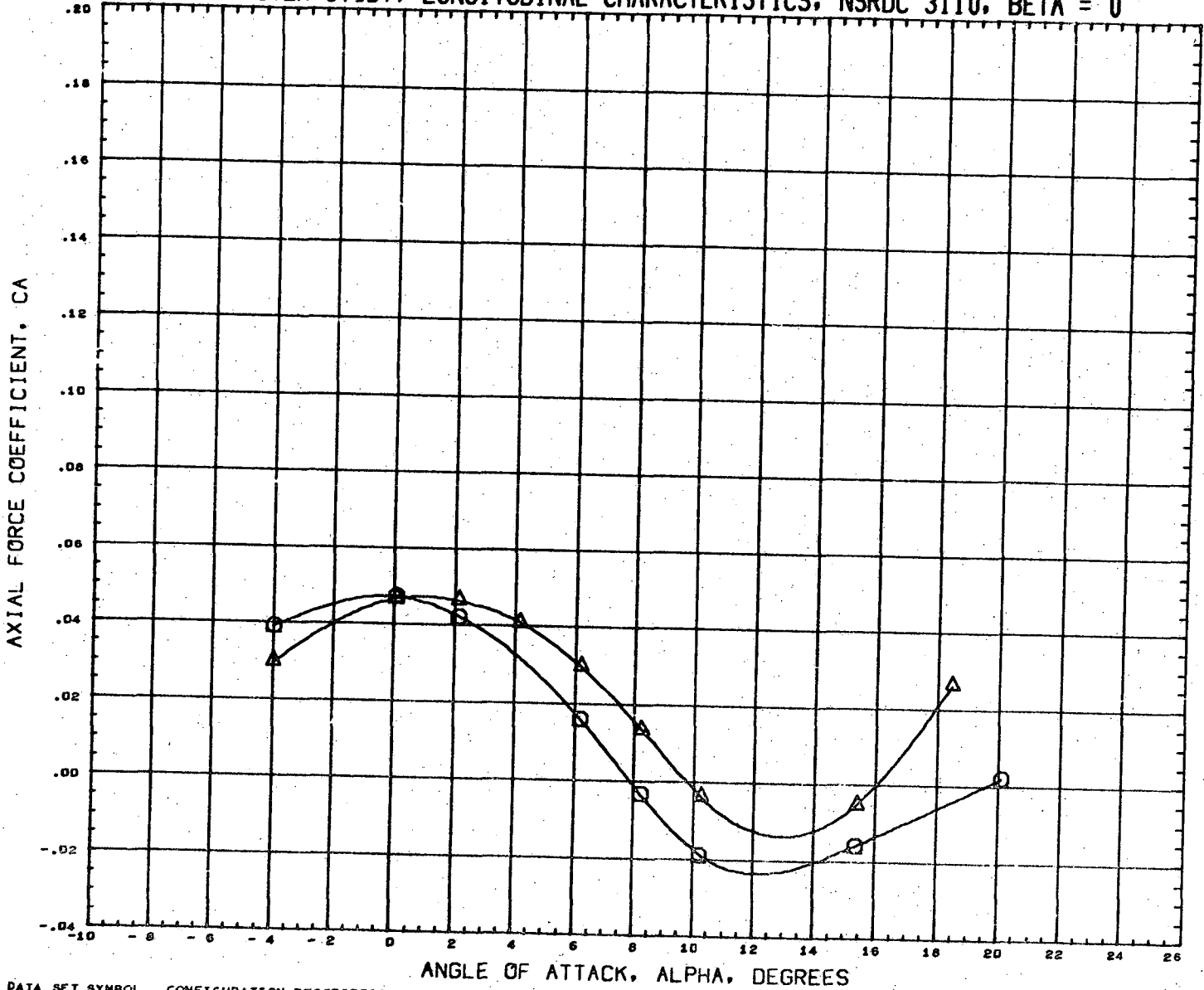
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2001)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2017)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.381

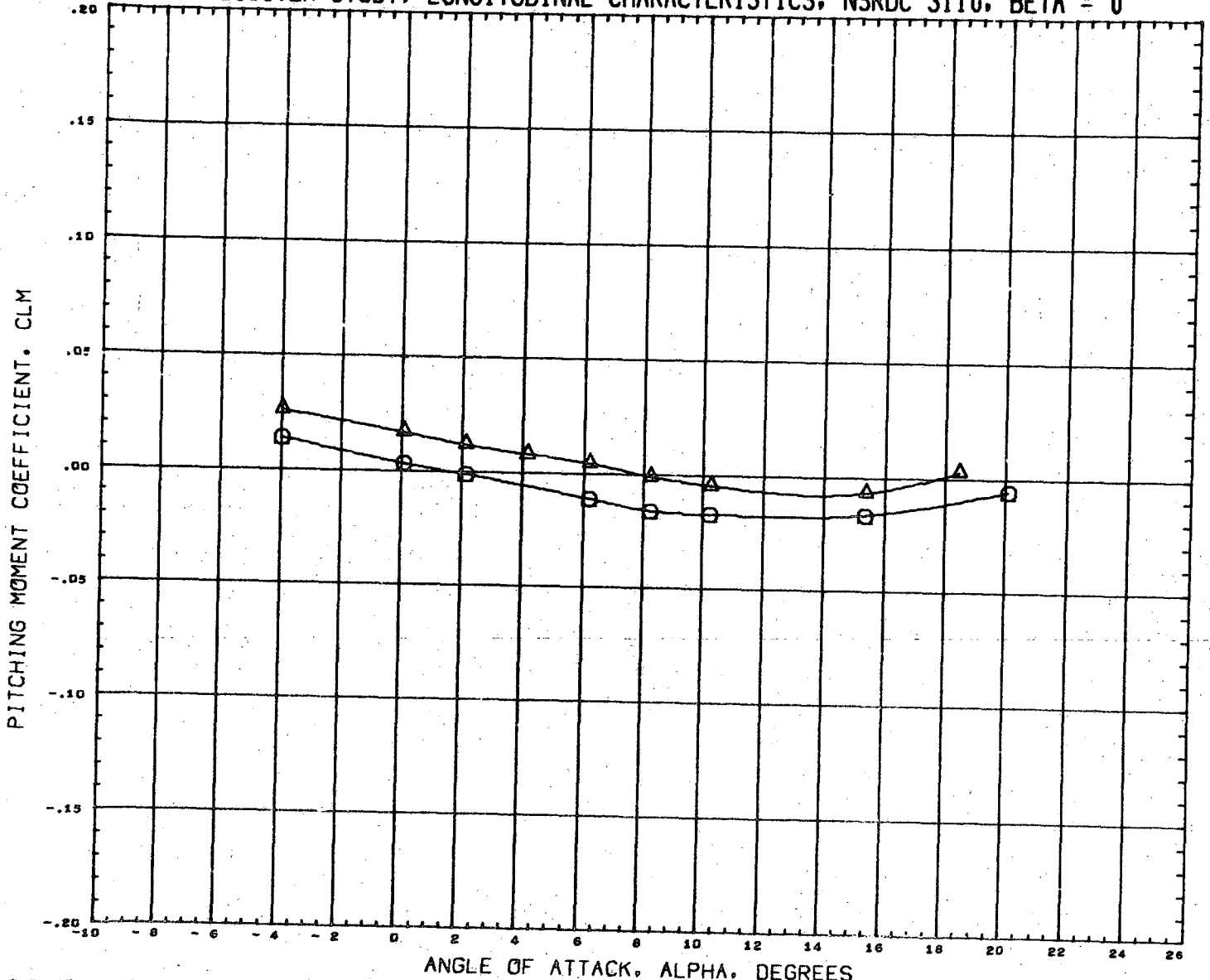
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2001)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2017)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF 41.0300 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

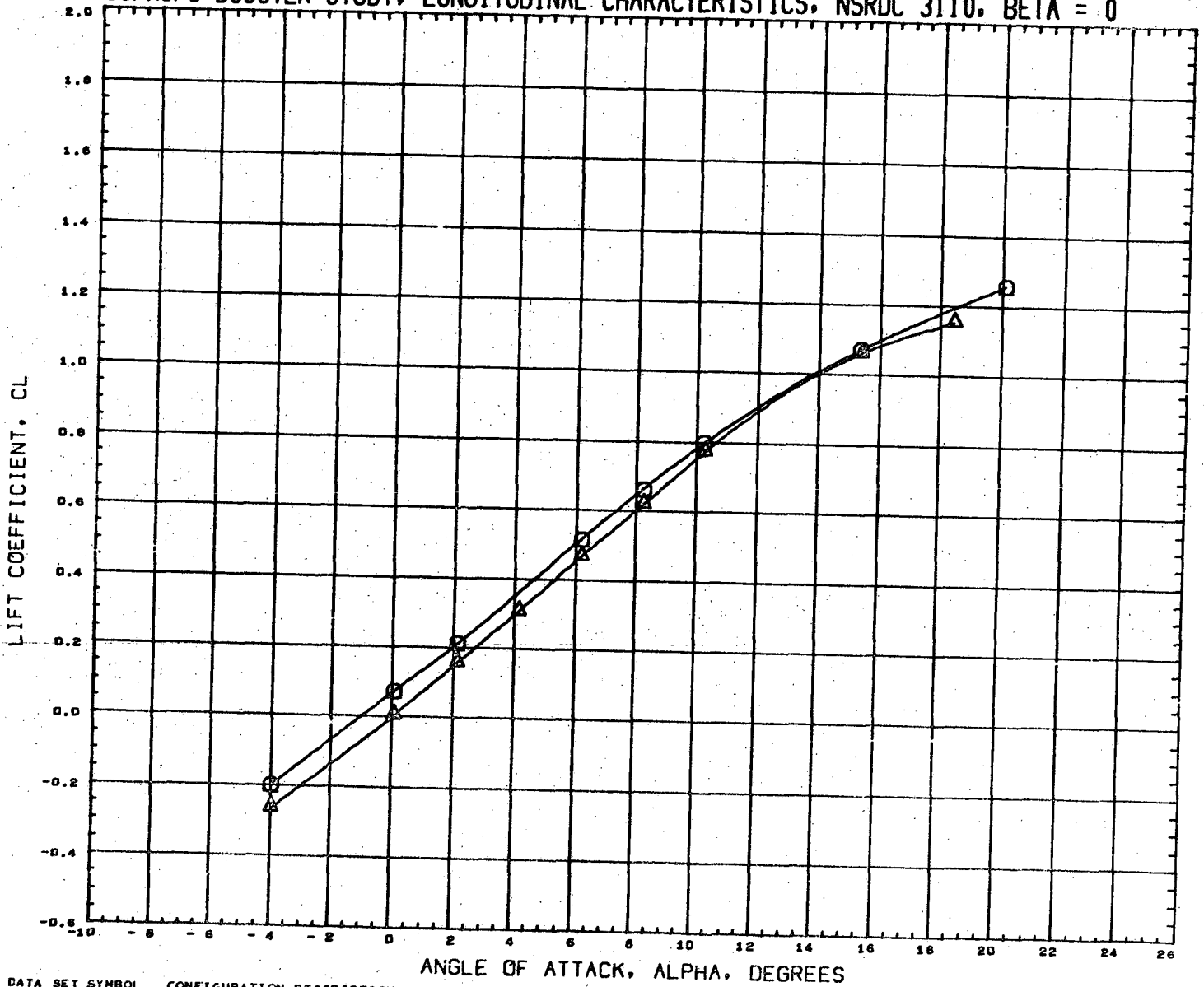
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2001)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2017)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

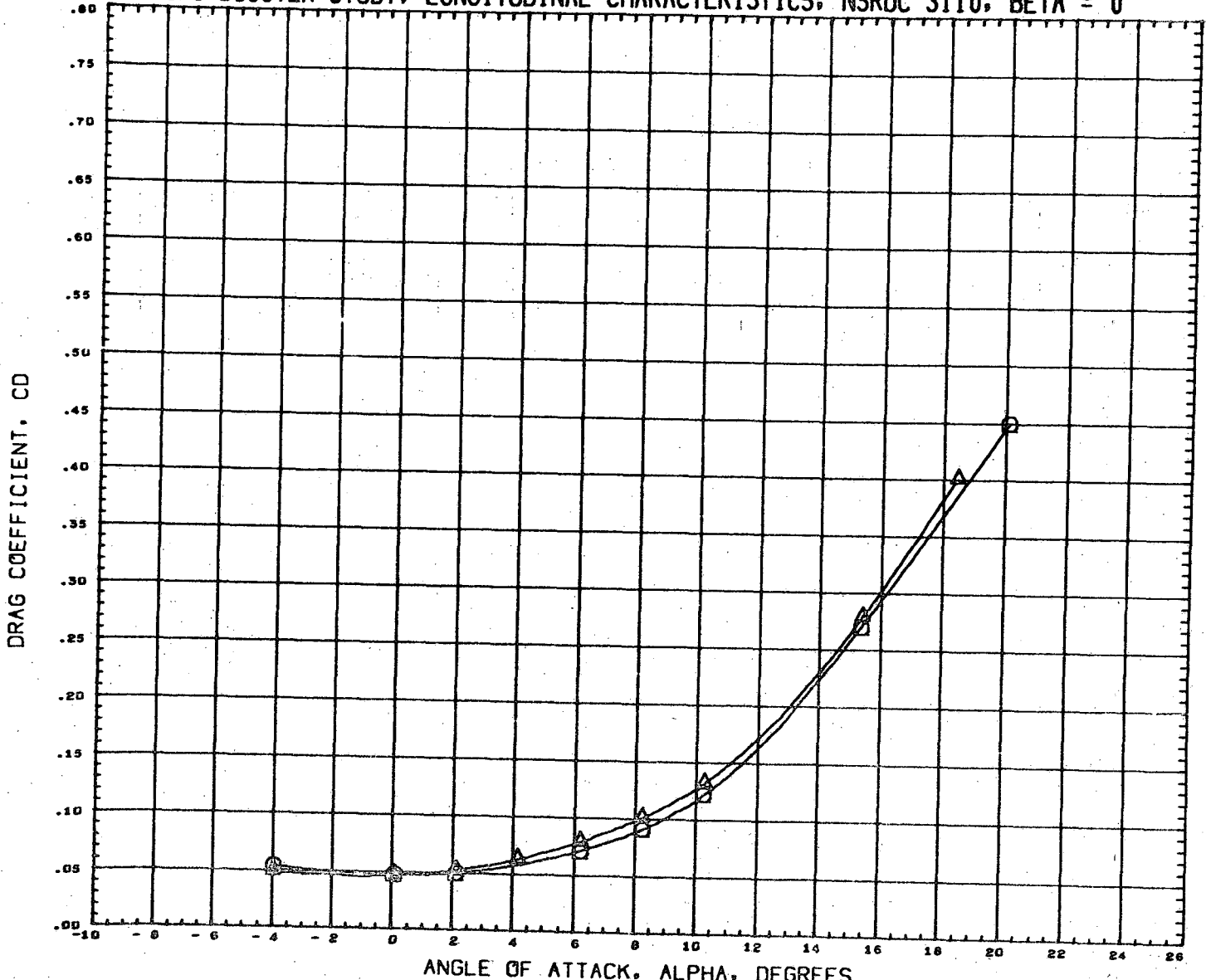
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2001)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2017)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.391

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



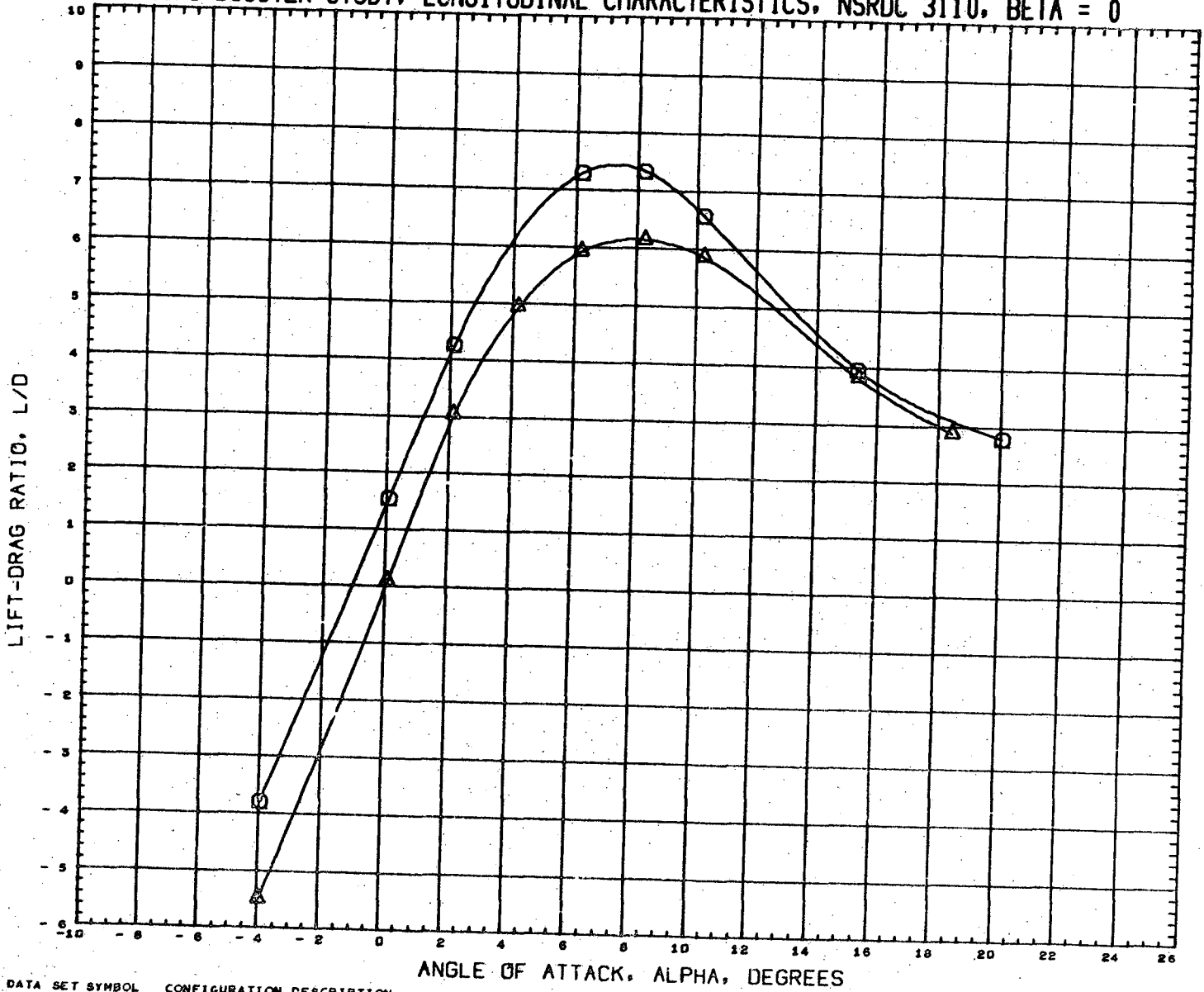
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2001) Q NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
 (RN2017) Q NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

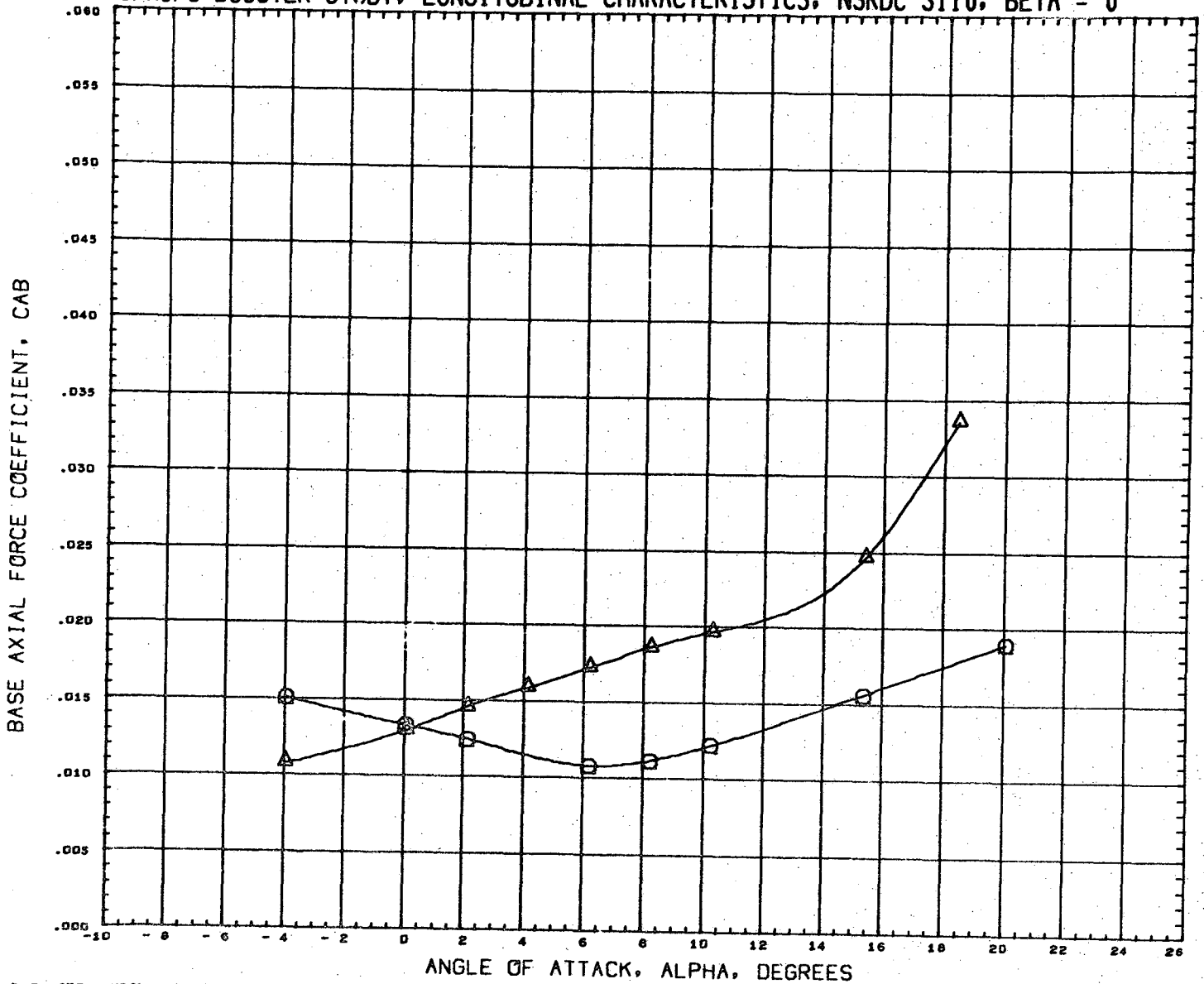
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2001)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2017)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2001) ○
(RN2017) △

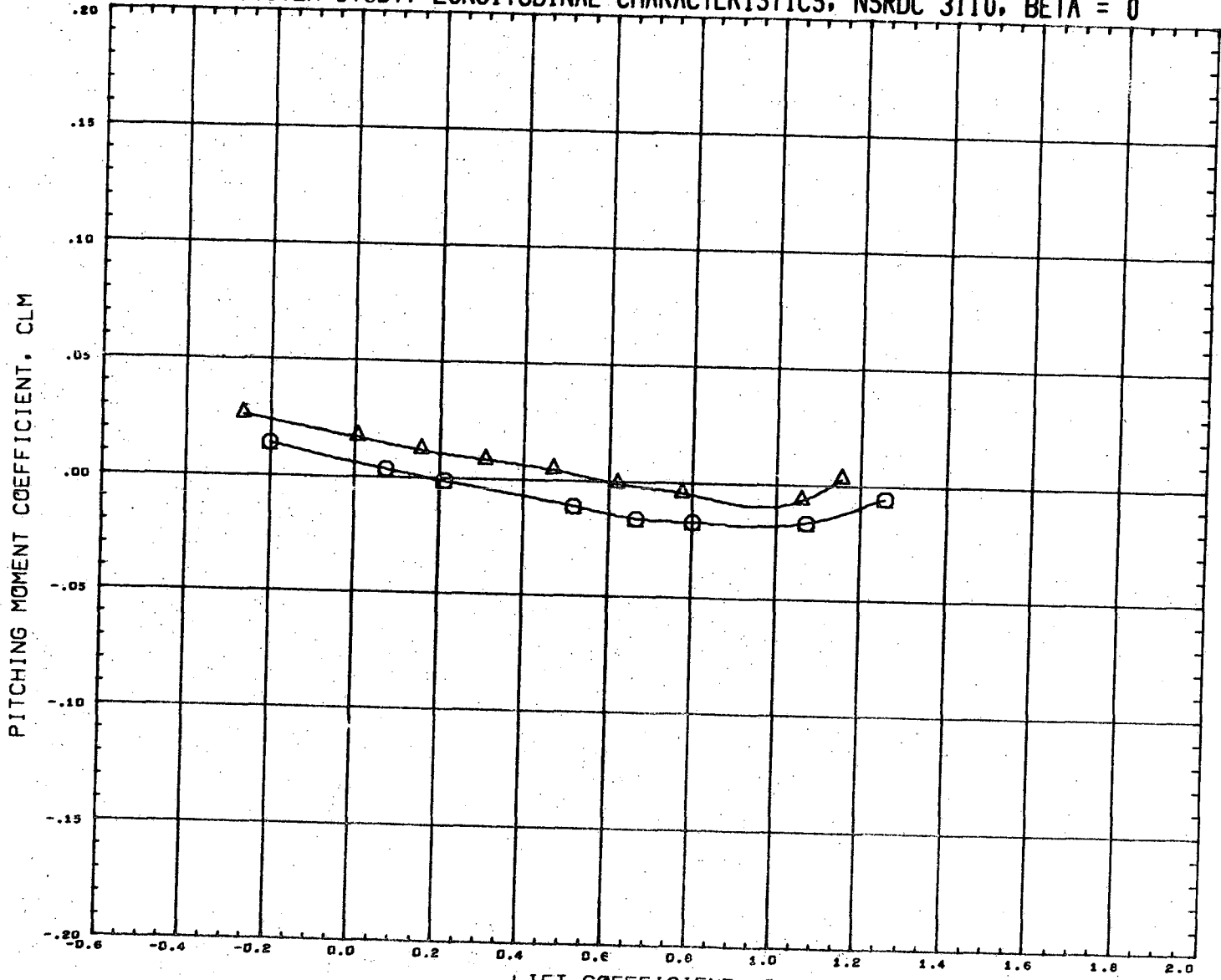
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

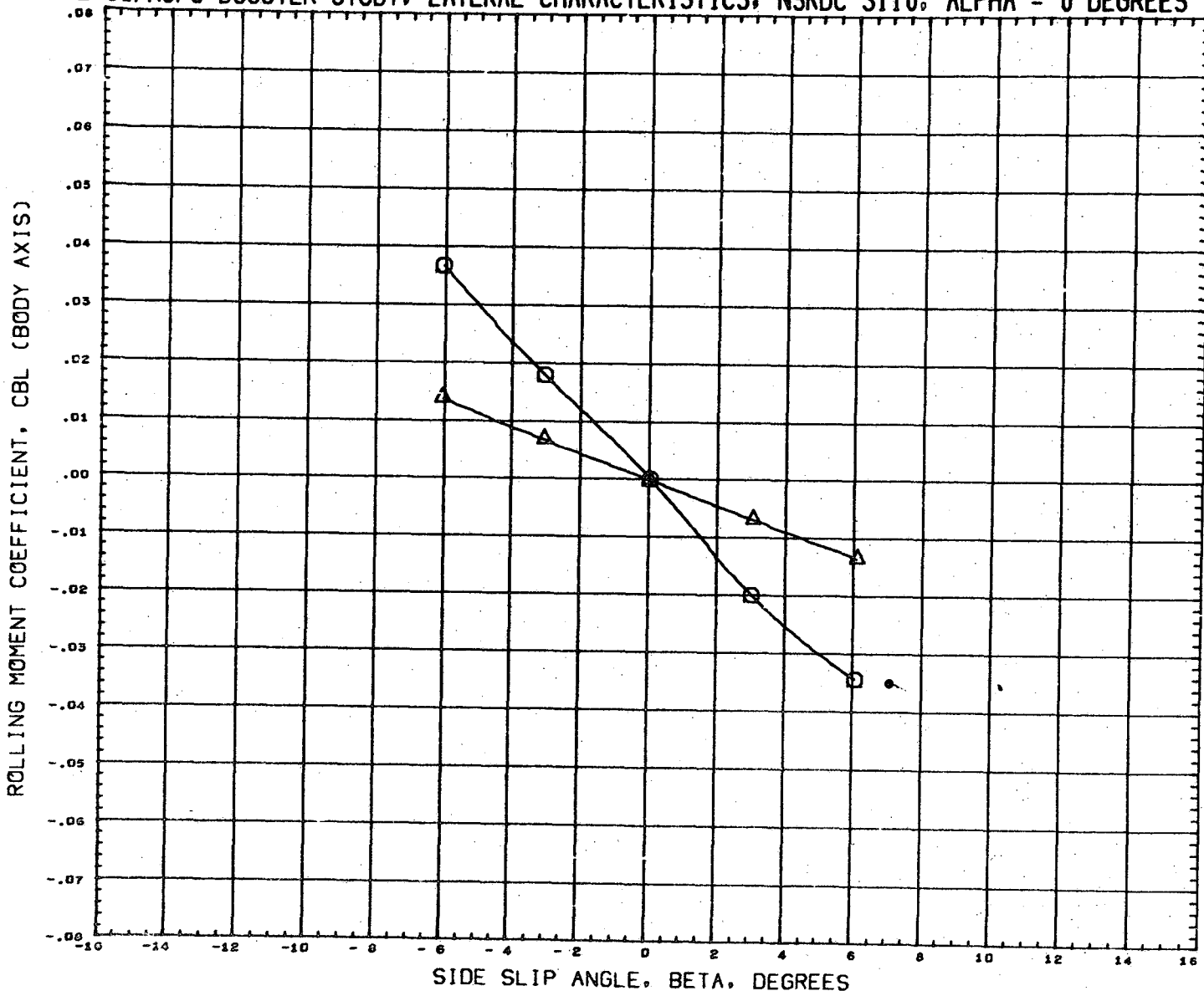
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2001)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2017)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

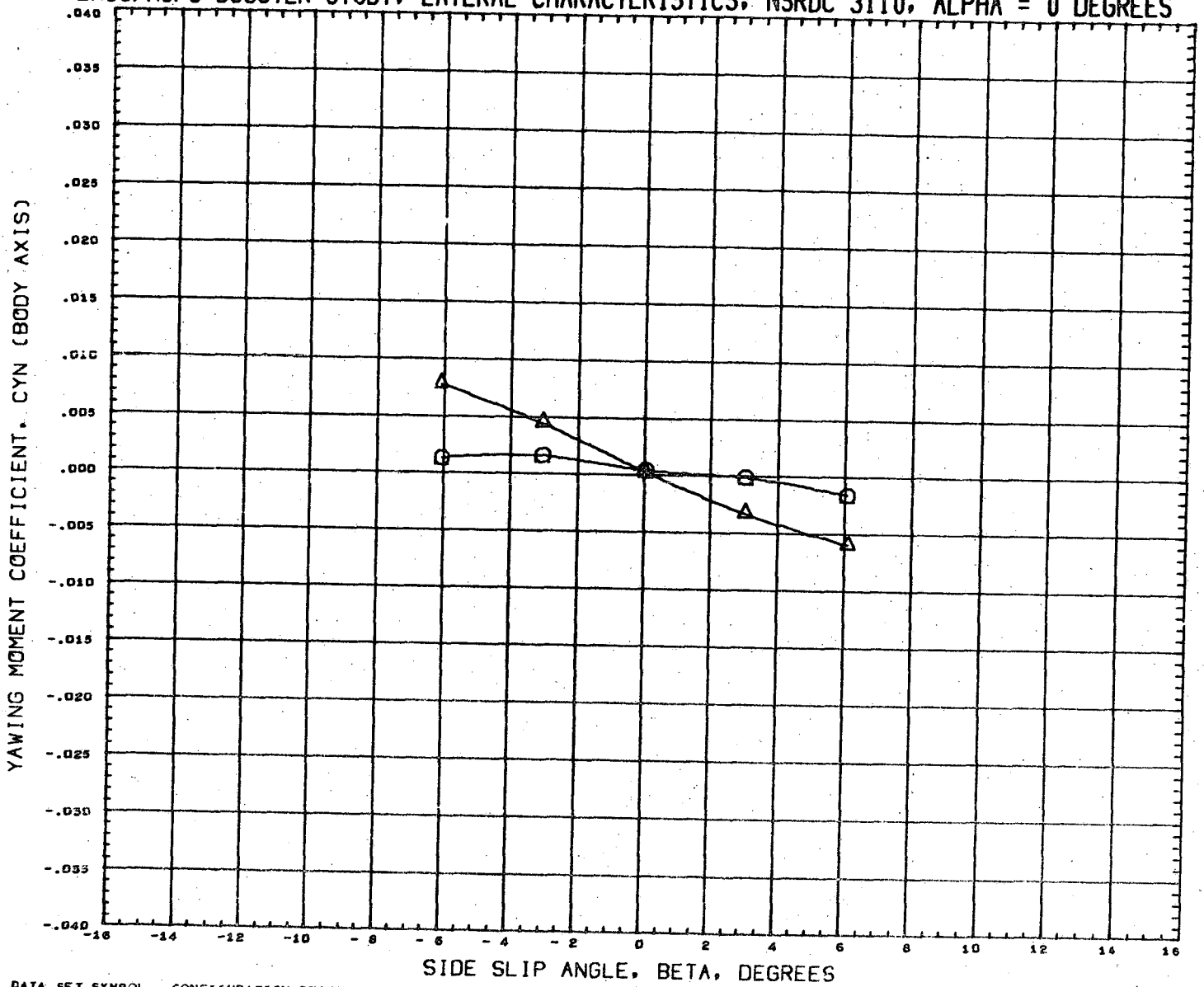
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2002)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2018)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.381

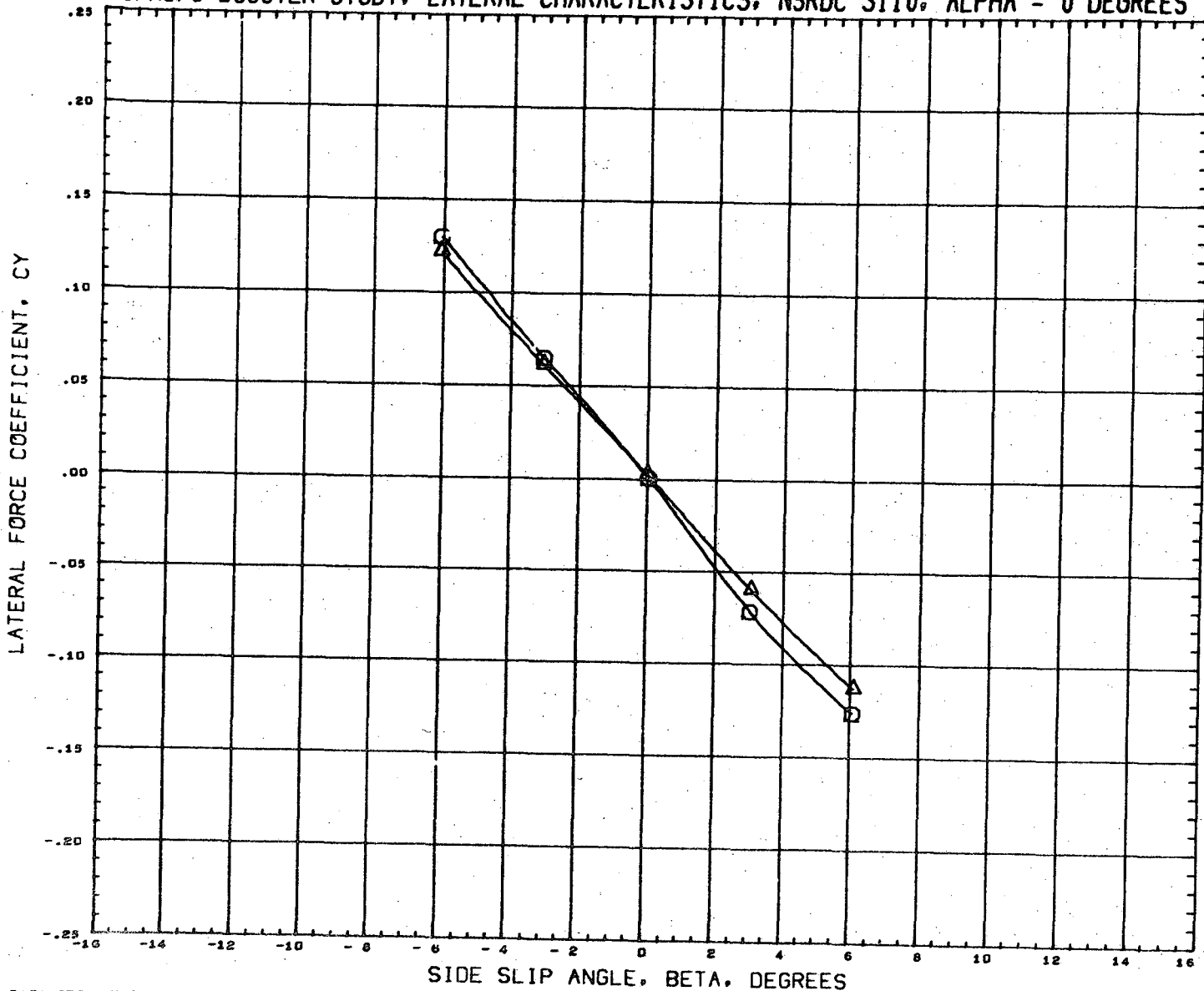
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2002)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2018)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4380 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

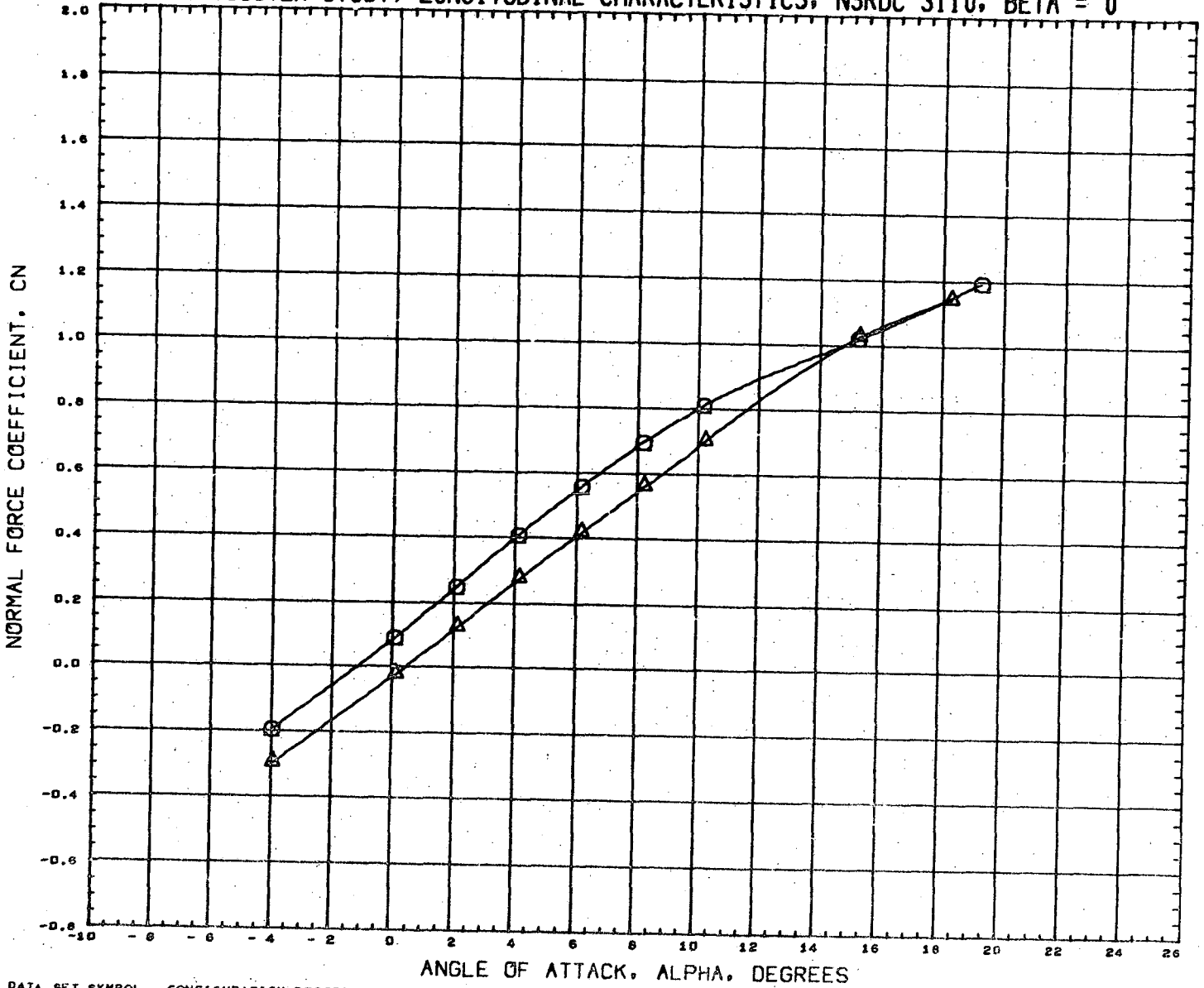
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2002)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2016)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2009)
(RN2025)



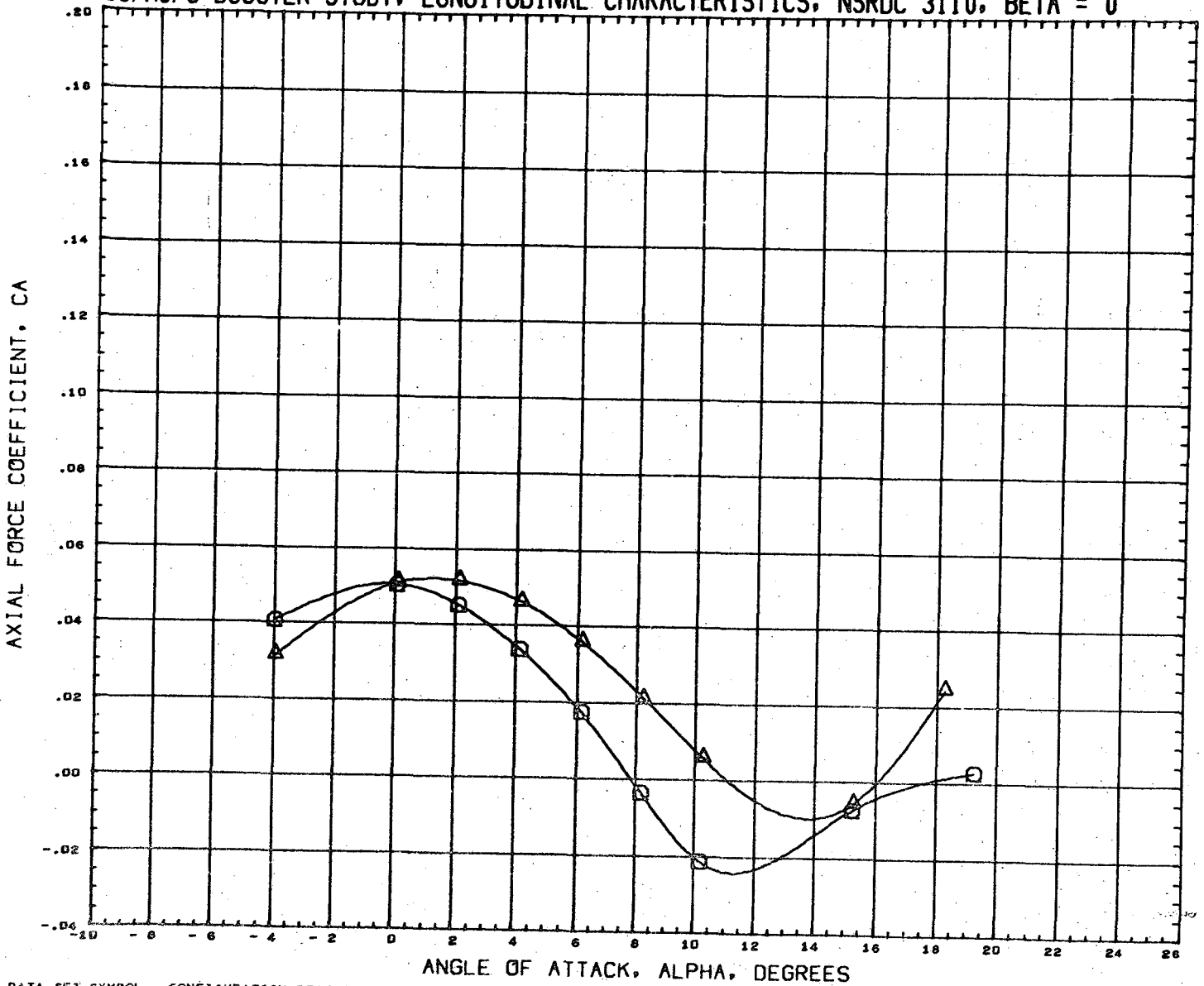
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V1

INCIDC	CNSPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2009) Q
(RN2025) A

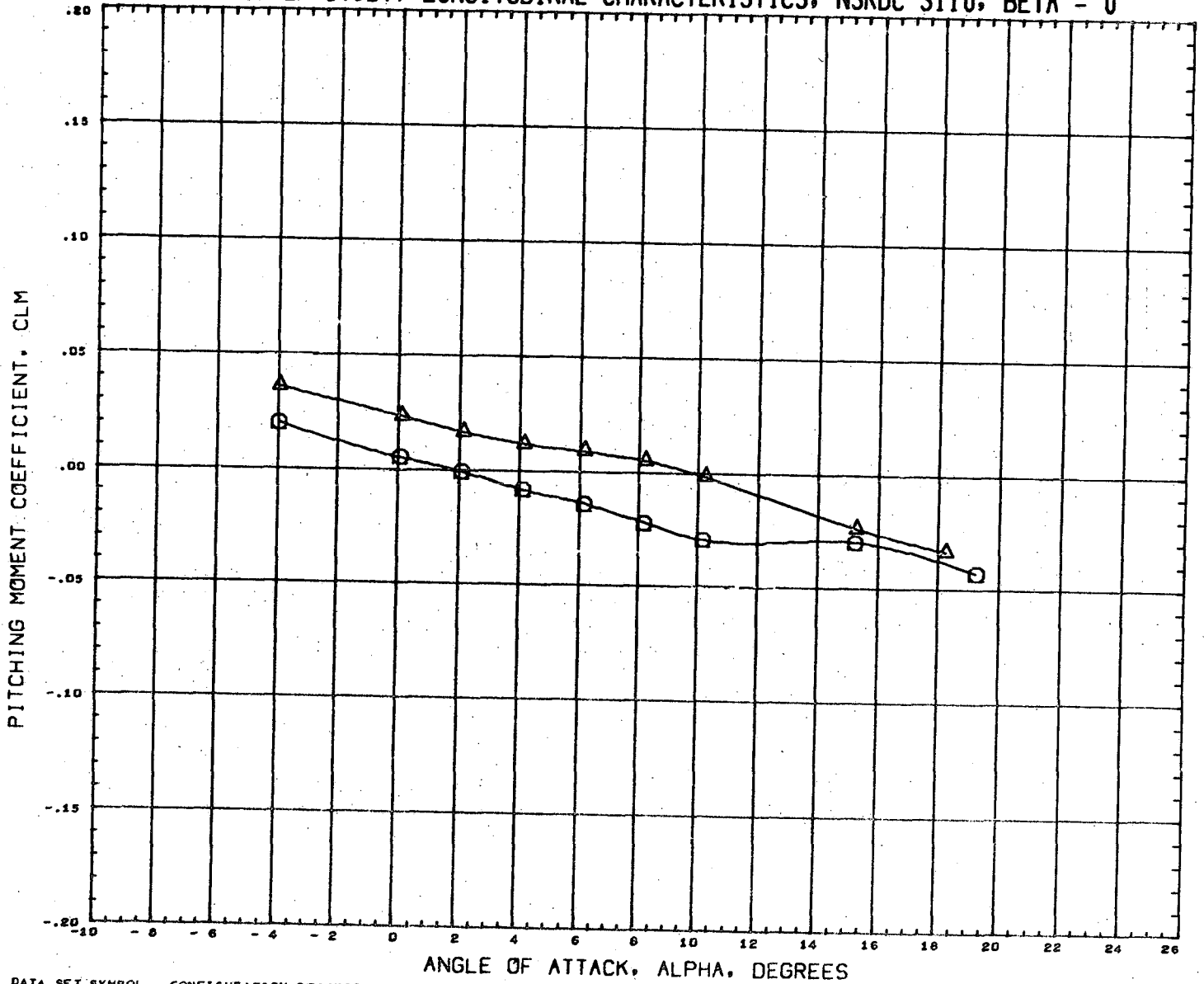
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC 3.000
CNDPOS 2.000
INCIDW 0.000
WNGPOS 1.000
2.000

REFERENCE INFORMATION
SREF 1.3550 SQ.FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.581

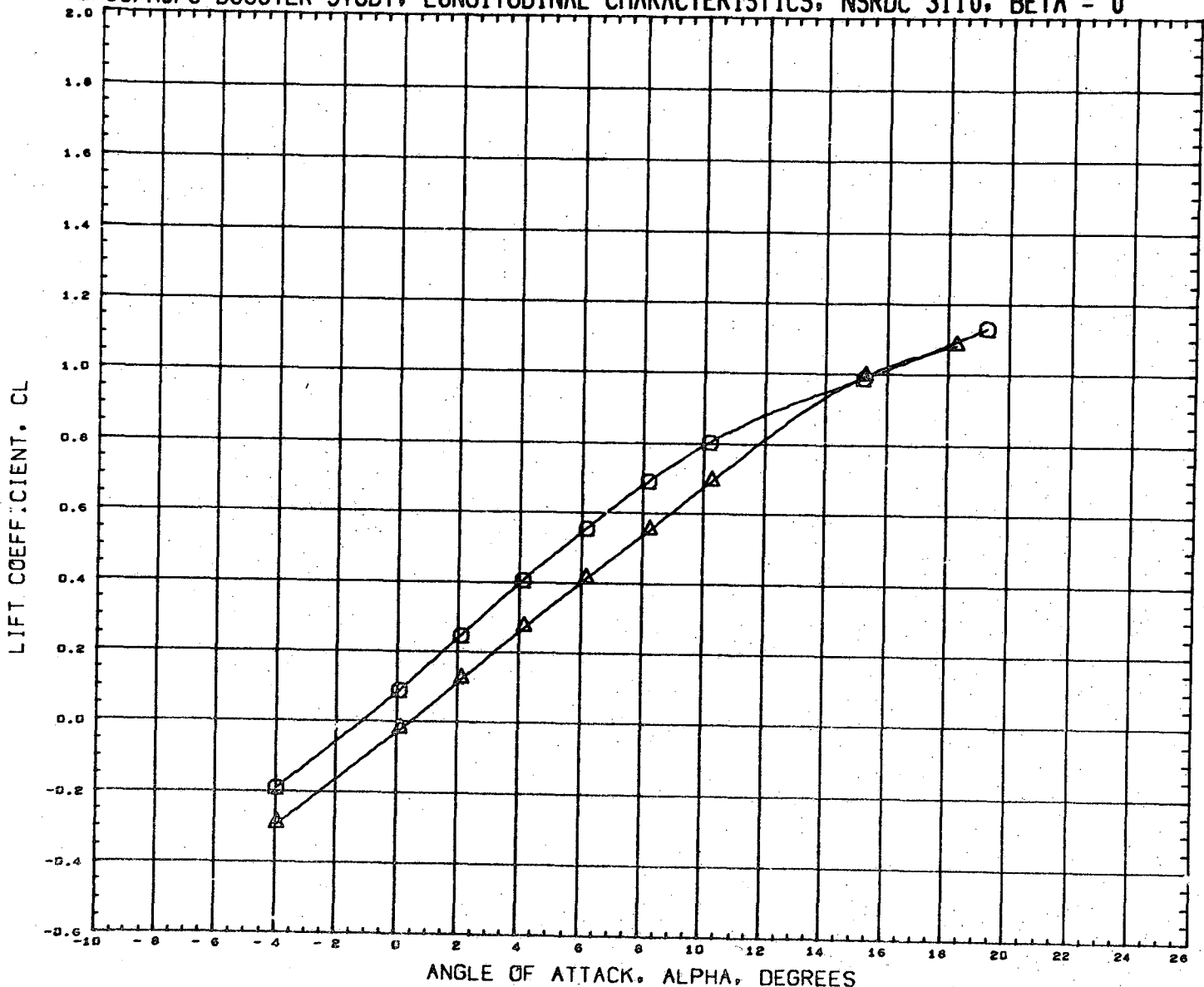
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2009)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2025)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

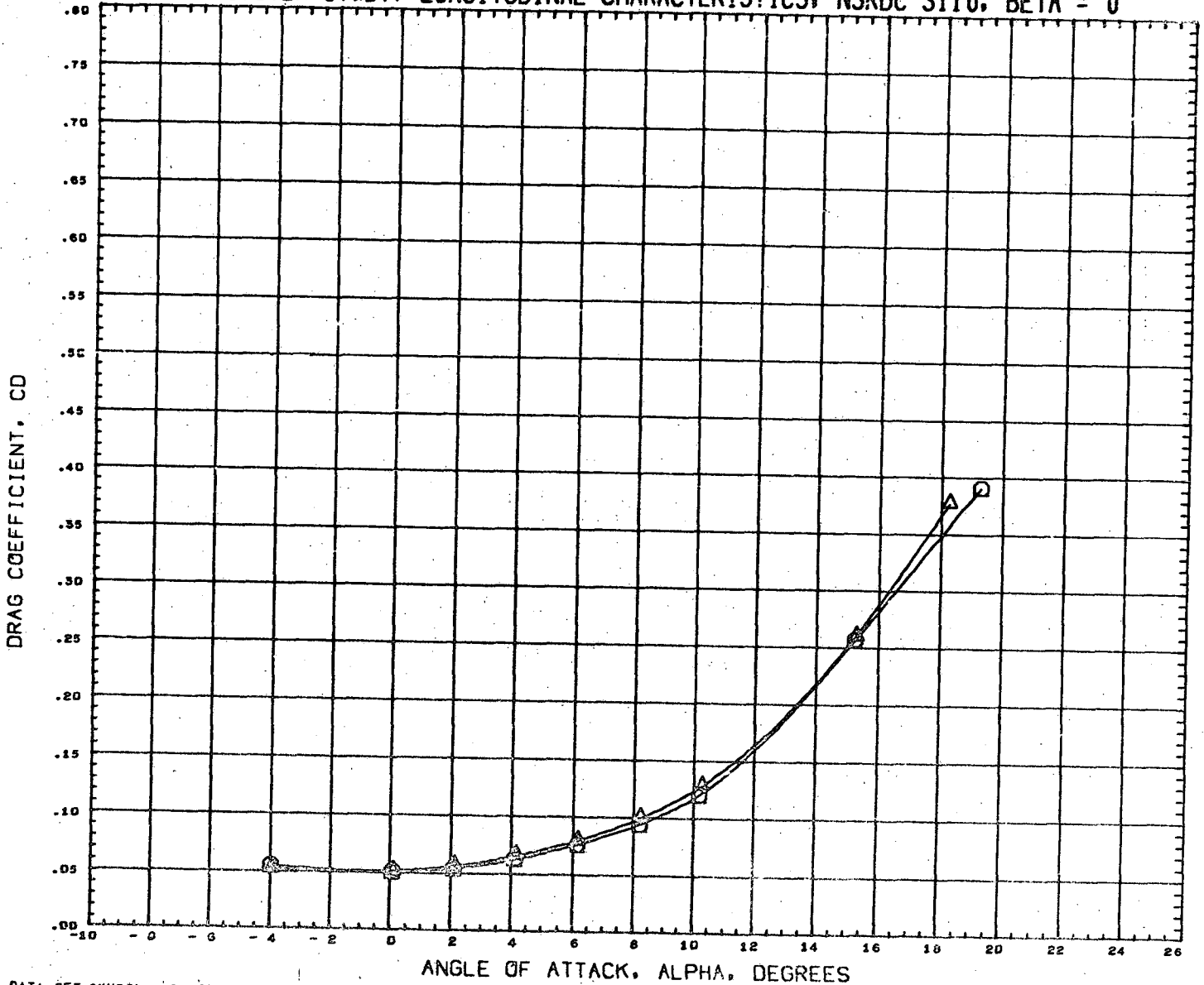
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2009)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2025)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

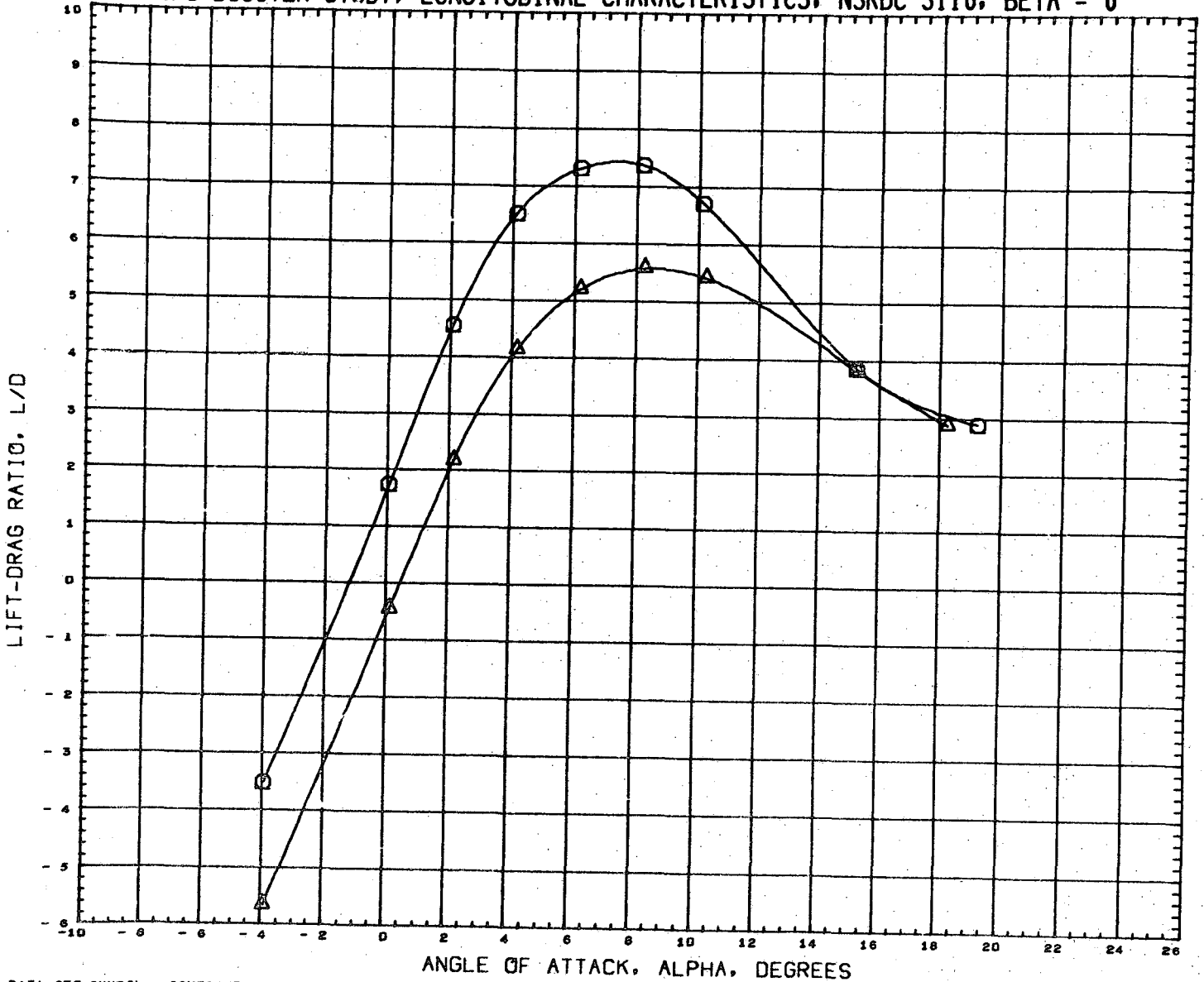
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN20D9)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN20Z5)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2230 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

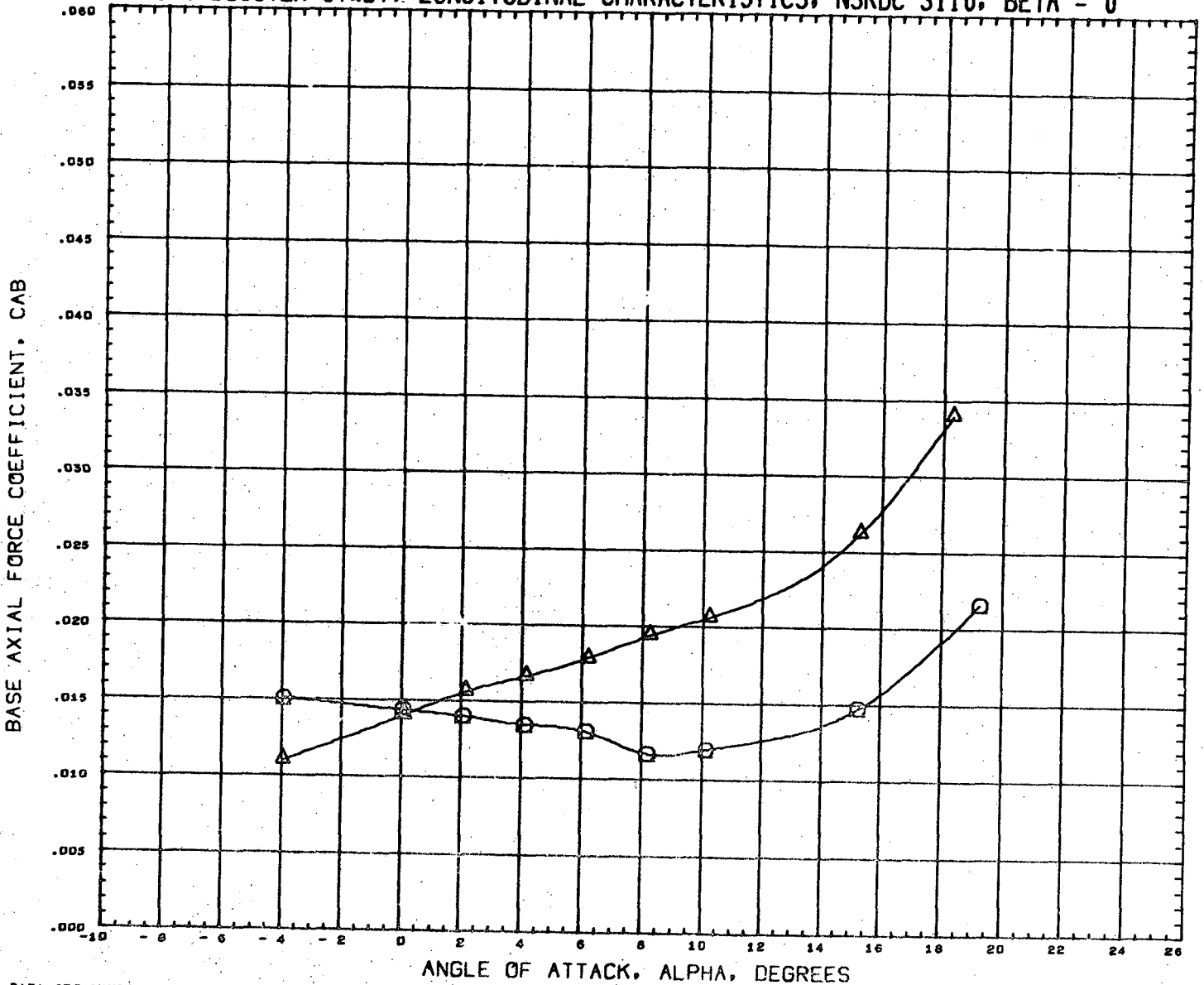
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2009)	NSRDC-3110,MSFC/LHSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2025)	NSRDC-3110,MSFC/LHSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

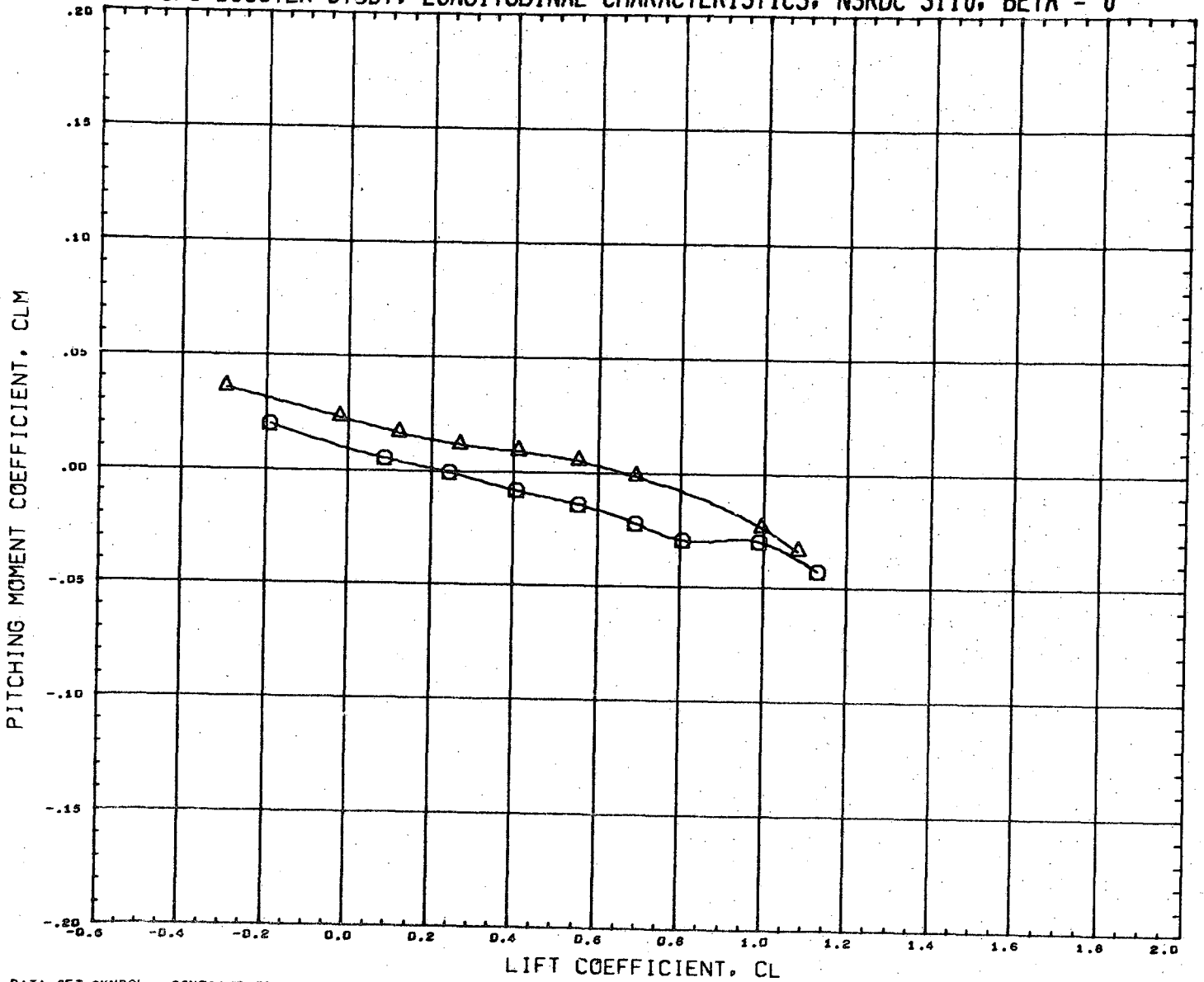
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2009)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2025)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2009) 
(RN2025) 

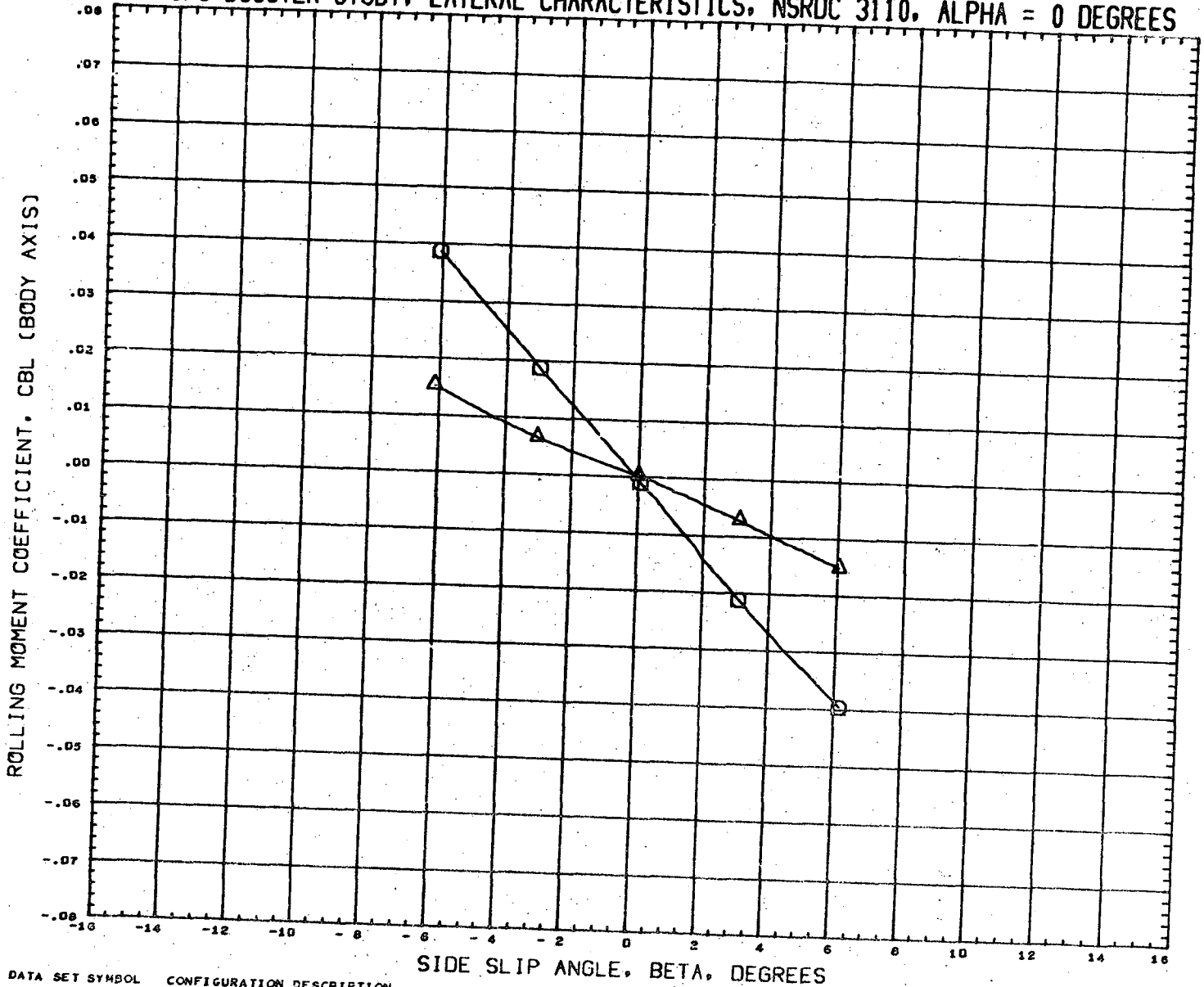
CONFIGURATION DESCRIPTION
NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.361

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2010)
(RN2026)



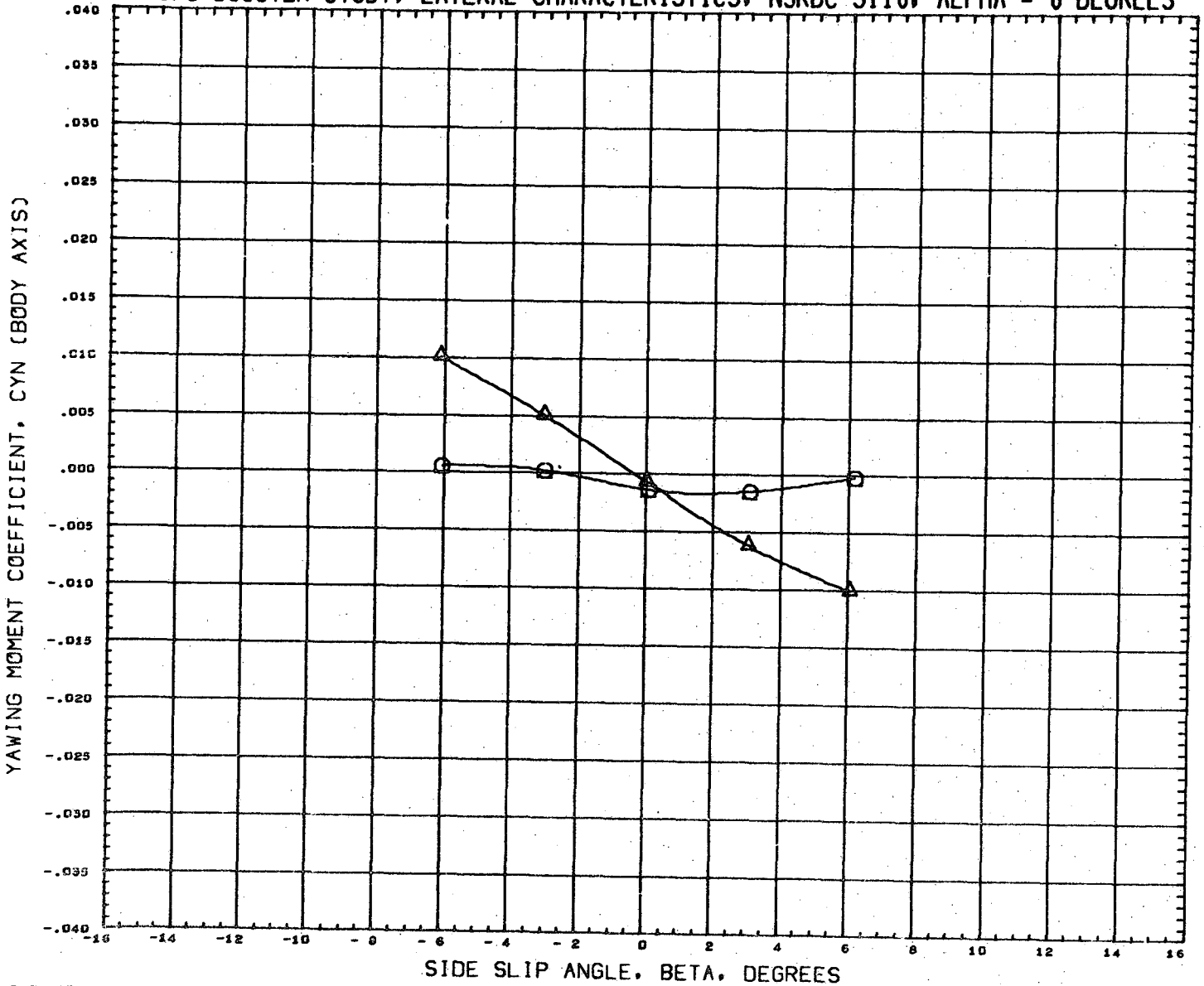
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.382

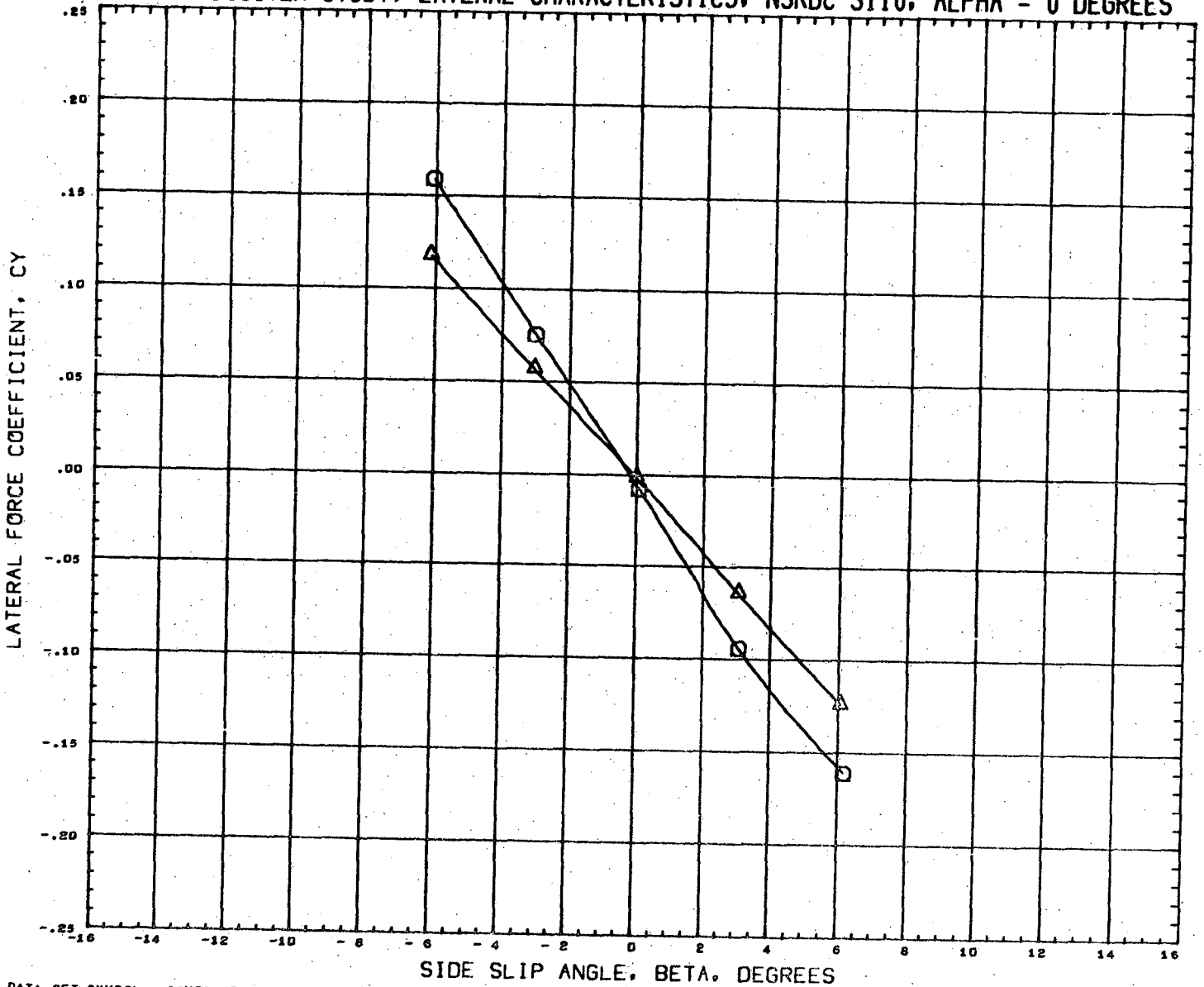
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2010)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2026)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.302

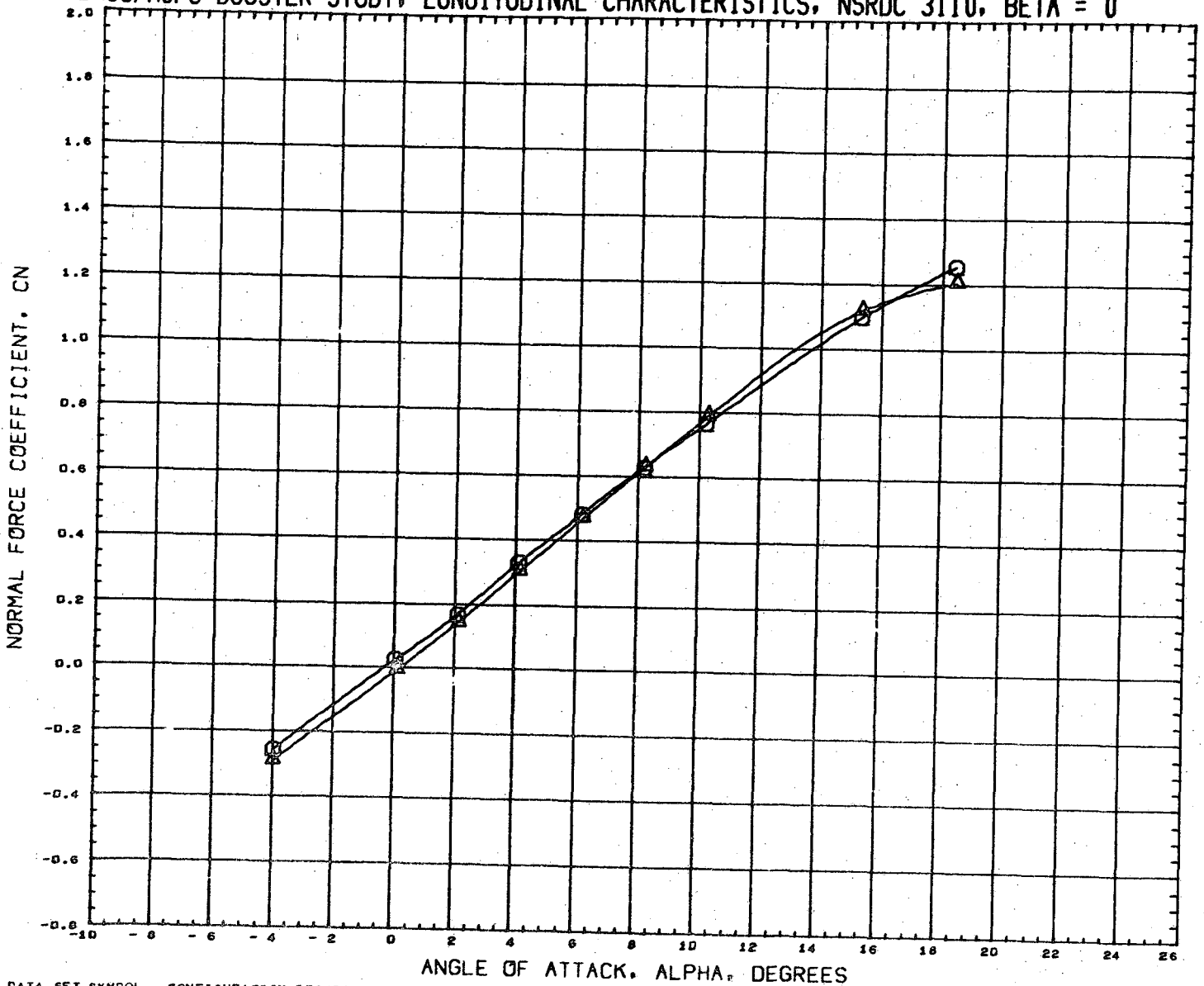
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2010)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2026)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

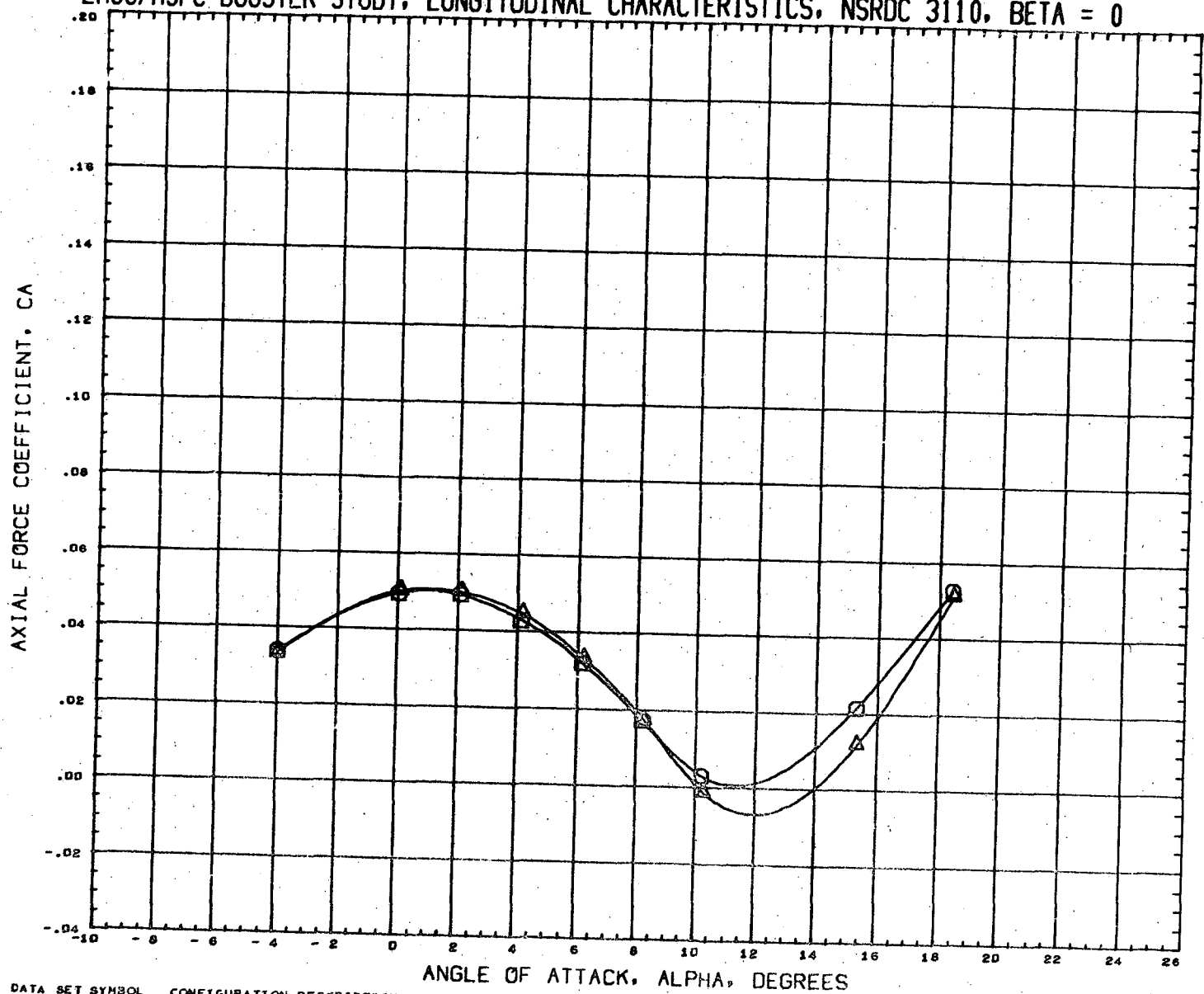
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2193)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2209)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

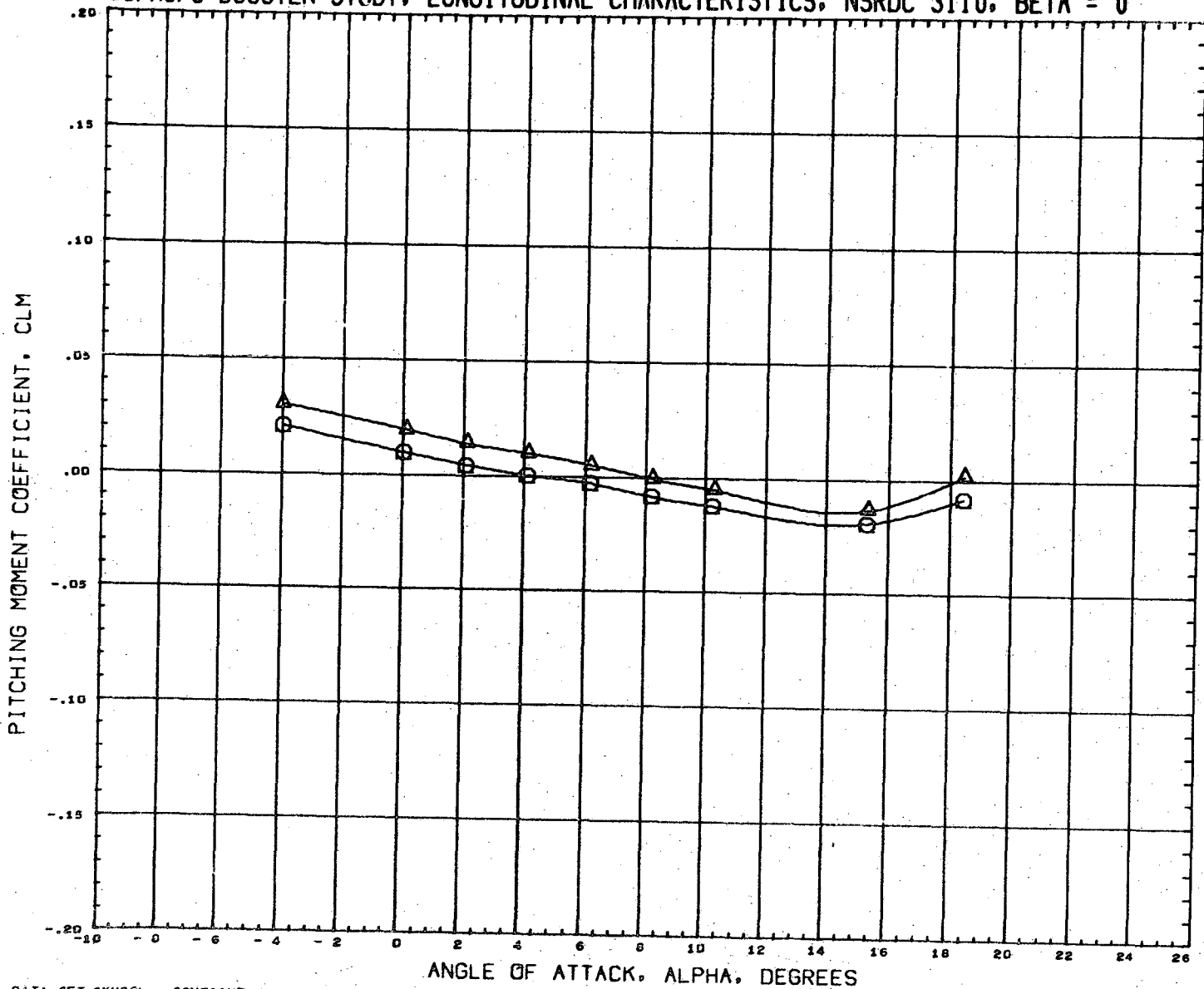
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2193)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2209)	NSRDC-3110, HSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2193) Δ
 (RN2209) \circ

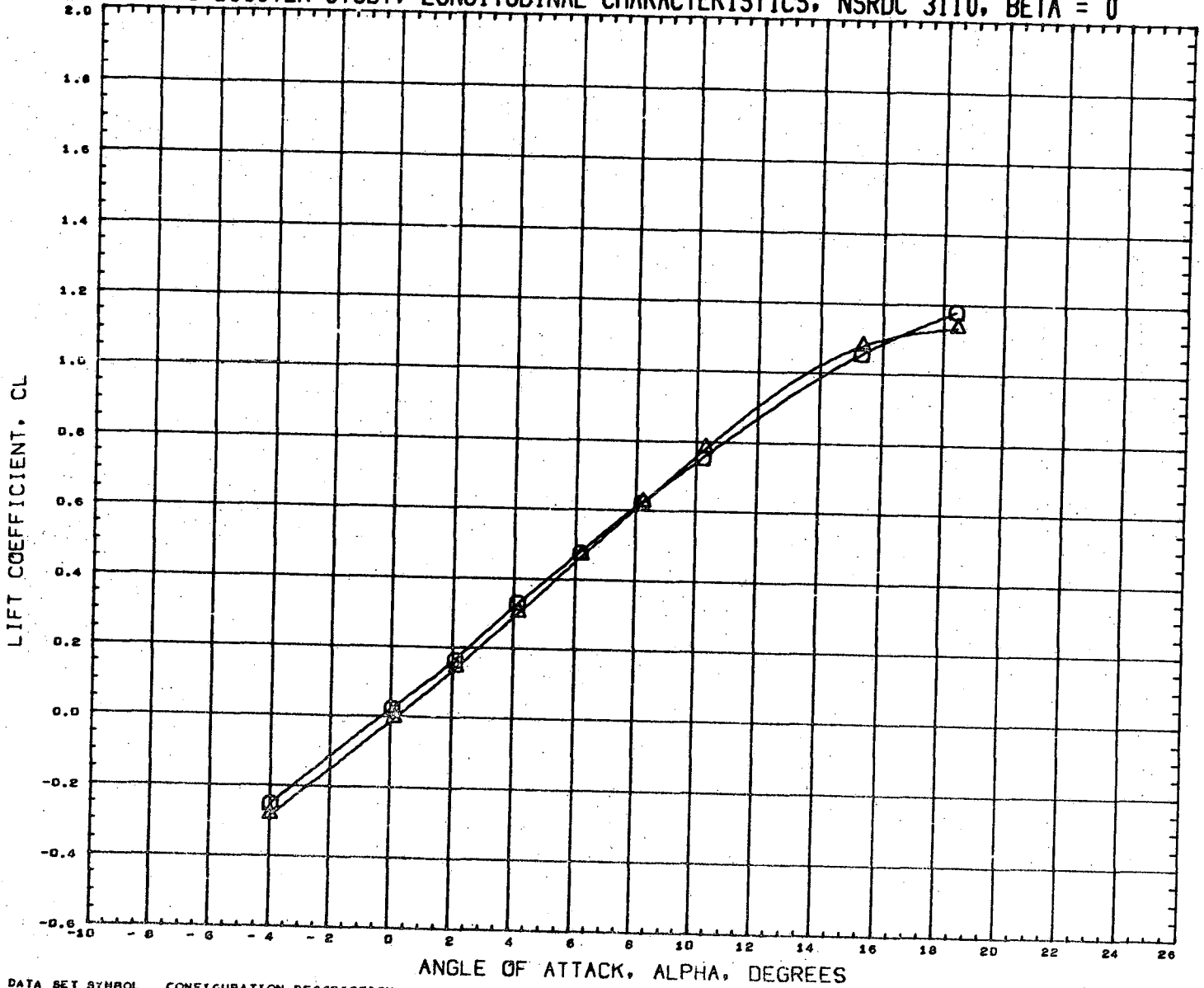
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC 3.000
 CNDPOS 1.000
 INCIDW 0.000
 WNGPOS 1.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.360

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2193)
(RN2209)

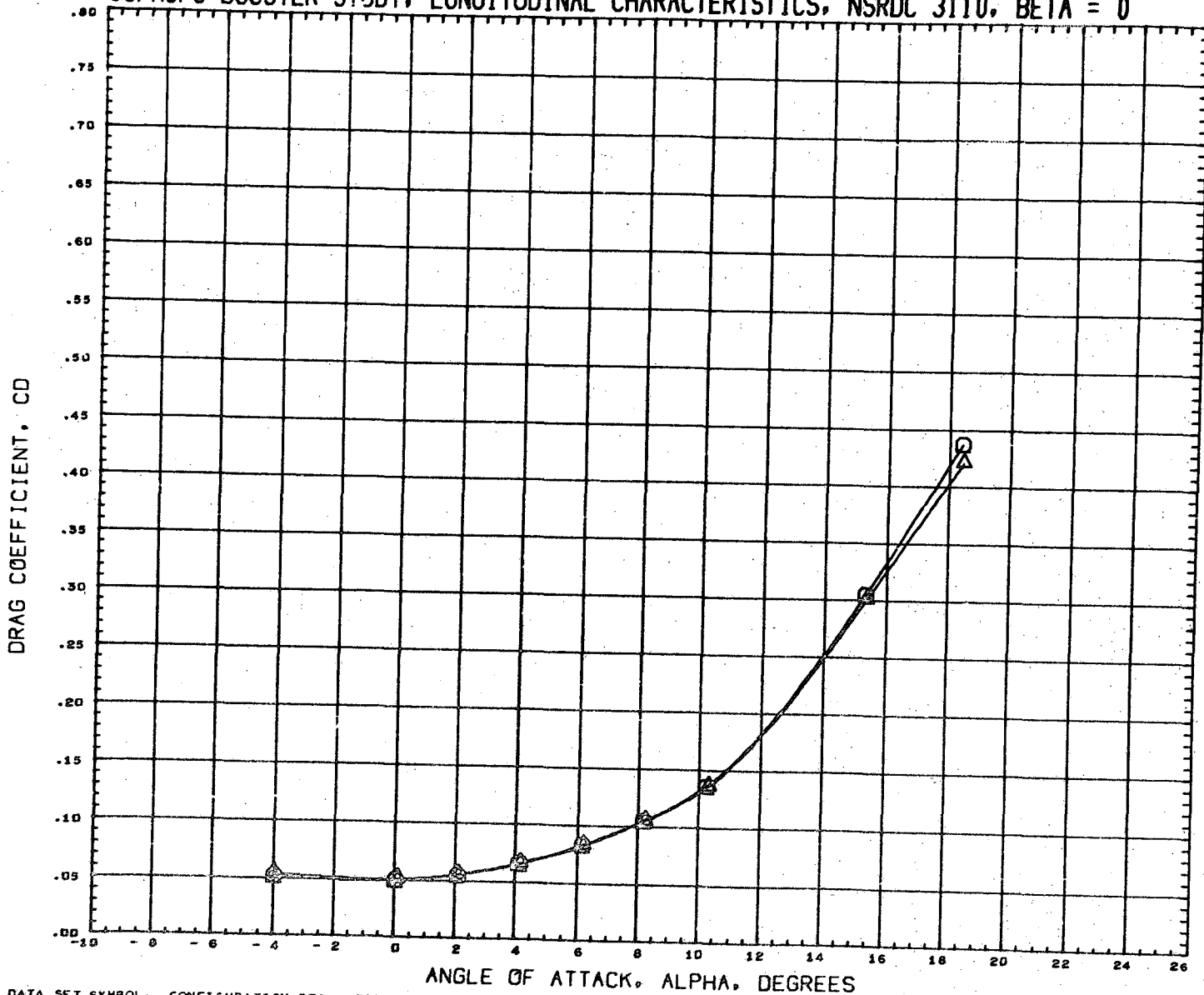
CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION
SREF 1.3550 SQ.FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2195) Q
(RN2209) Δ

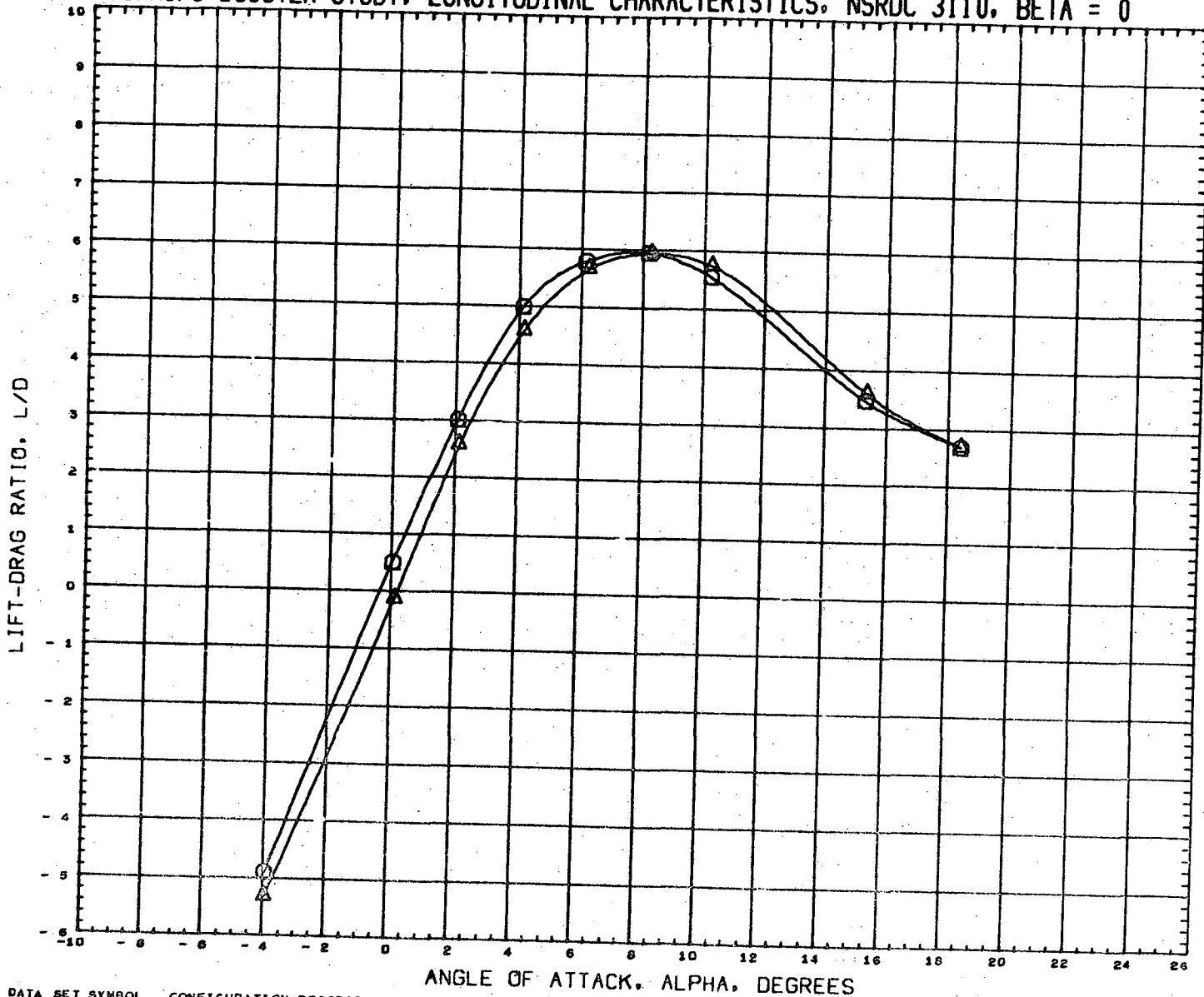
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMSP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

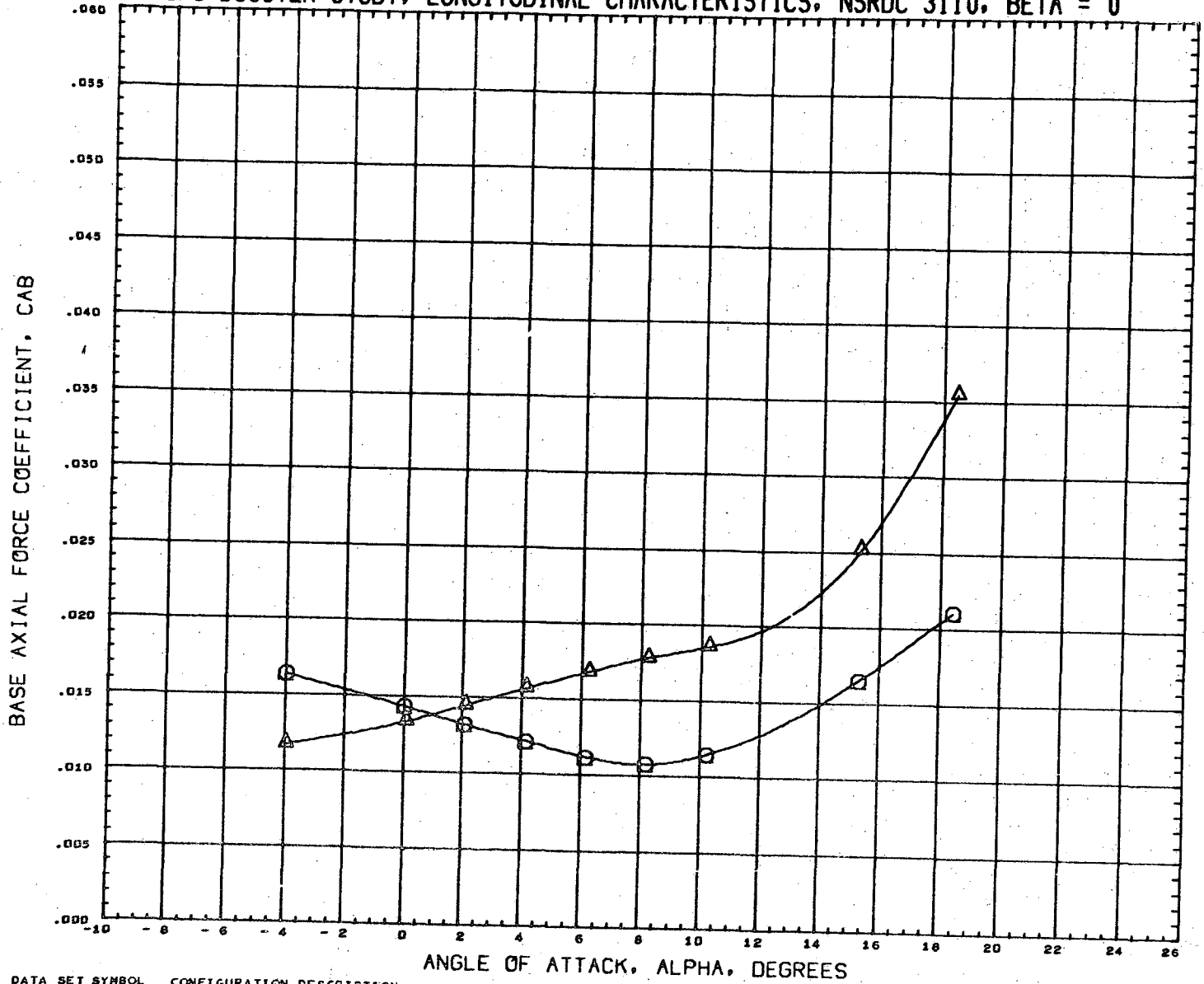
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2193)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2209)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

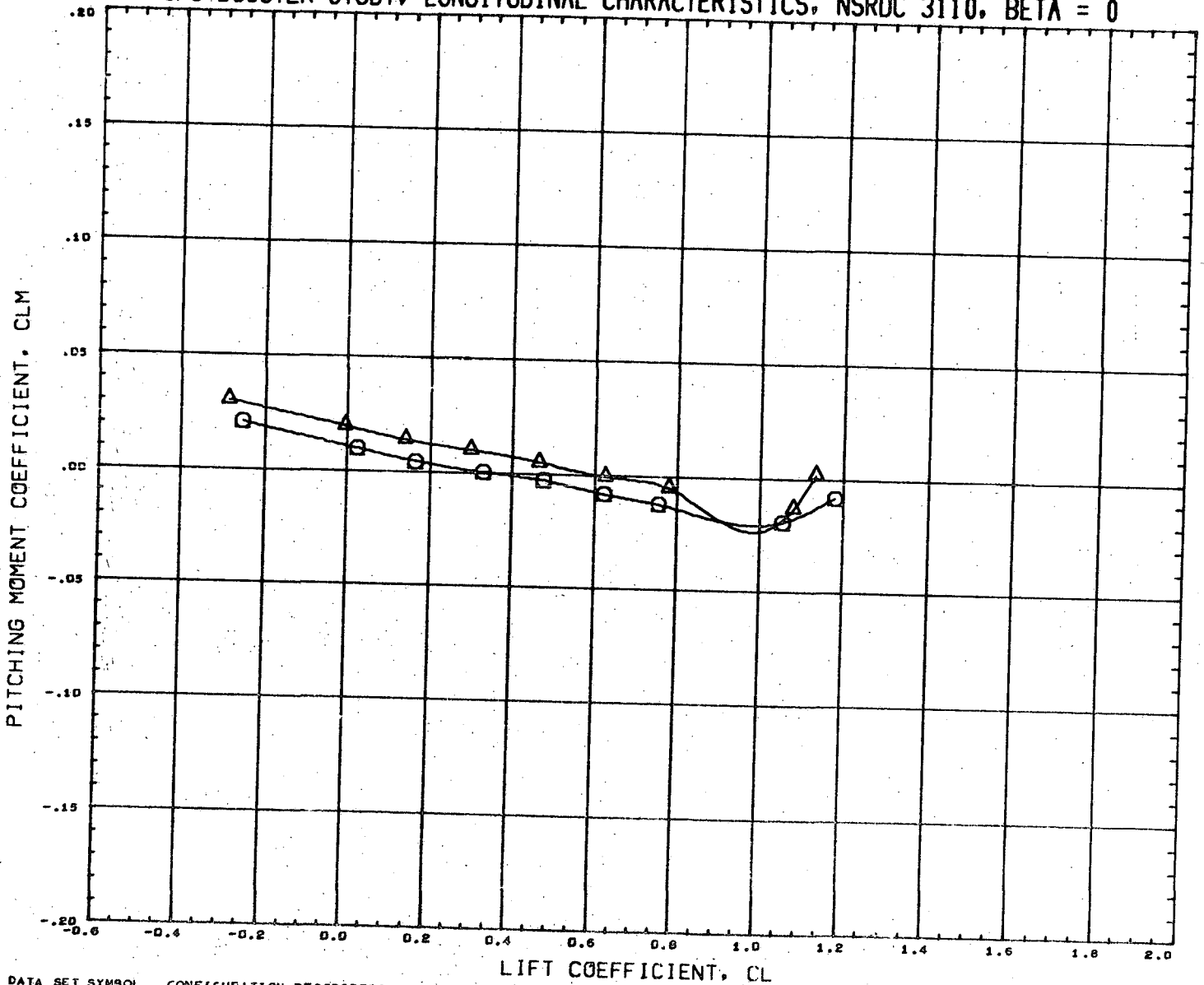
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2193) □	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2209) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

HACH D.380

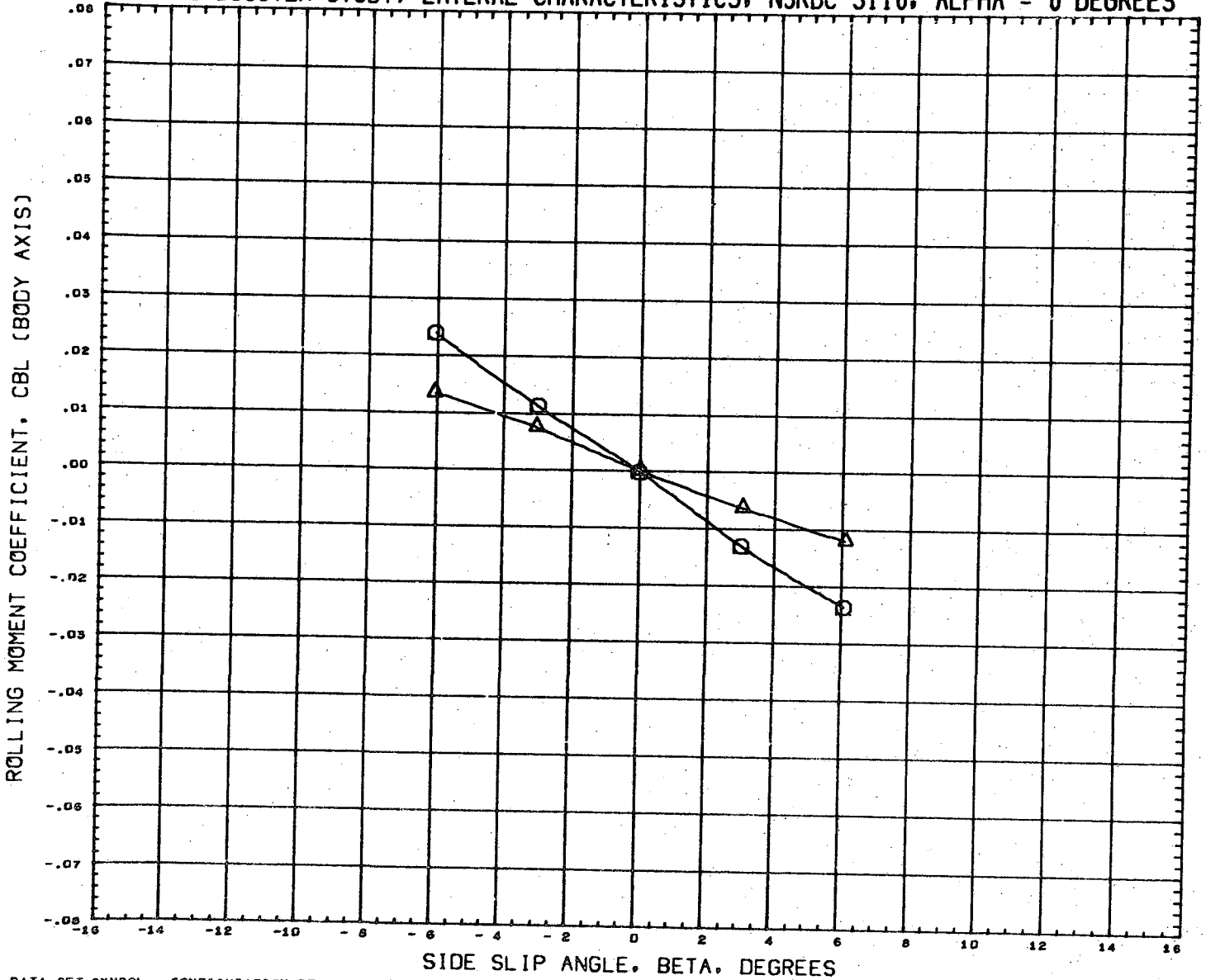
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2193)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2209)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RM2194)
(RM2210)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

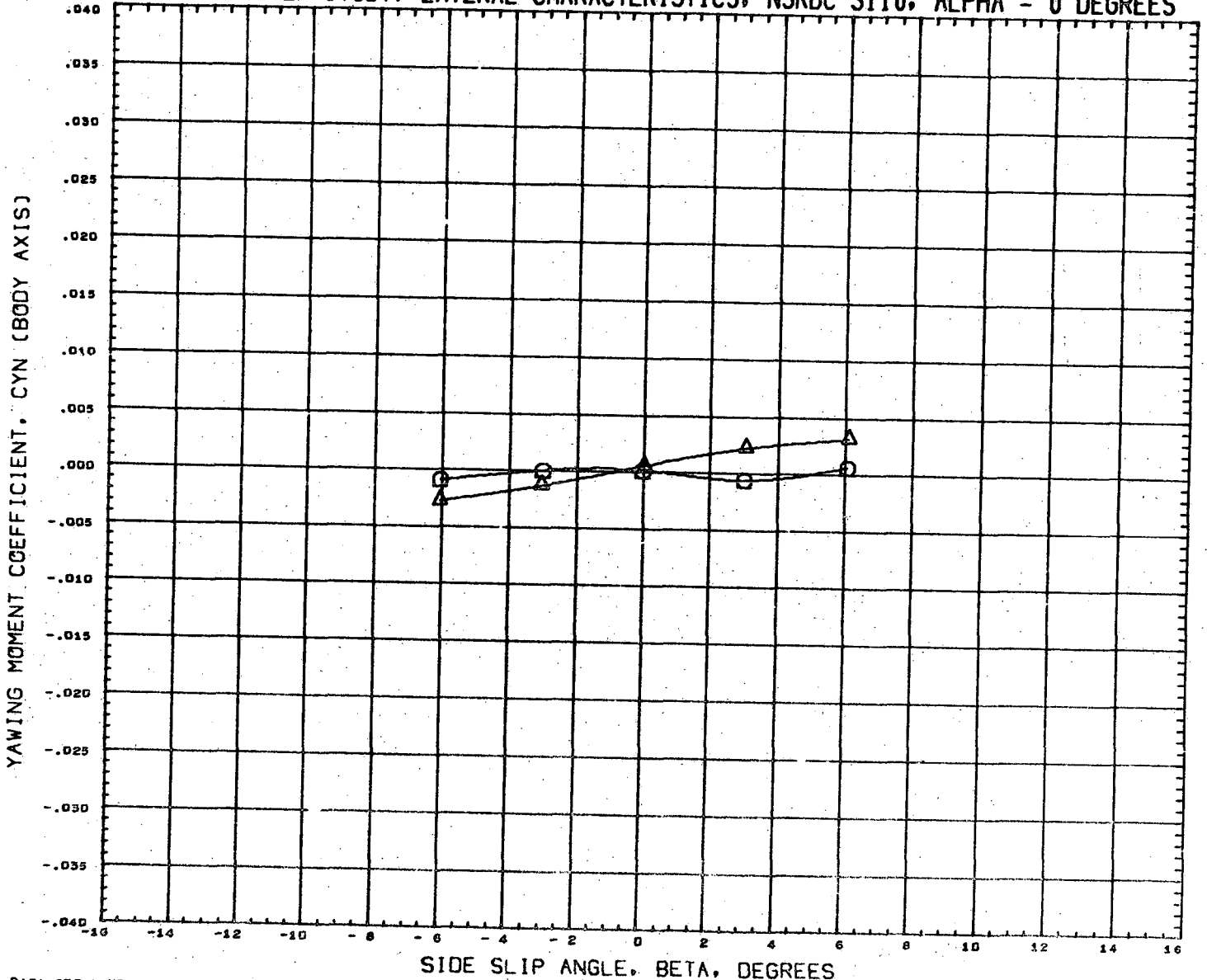
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.377

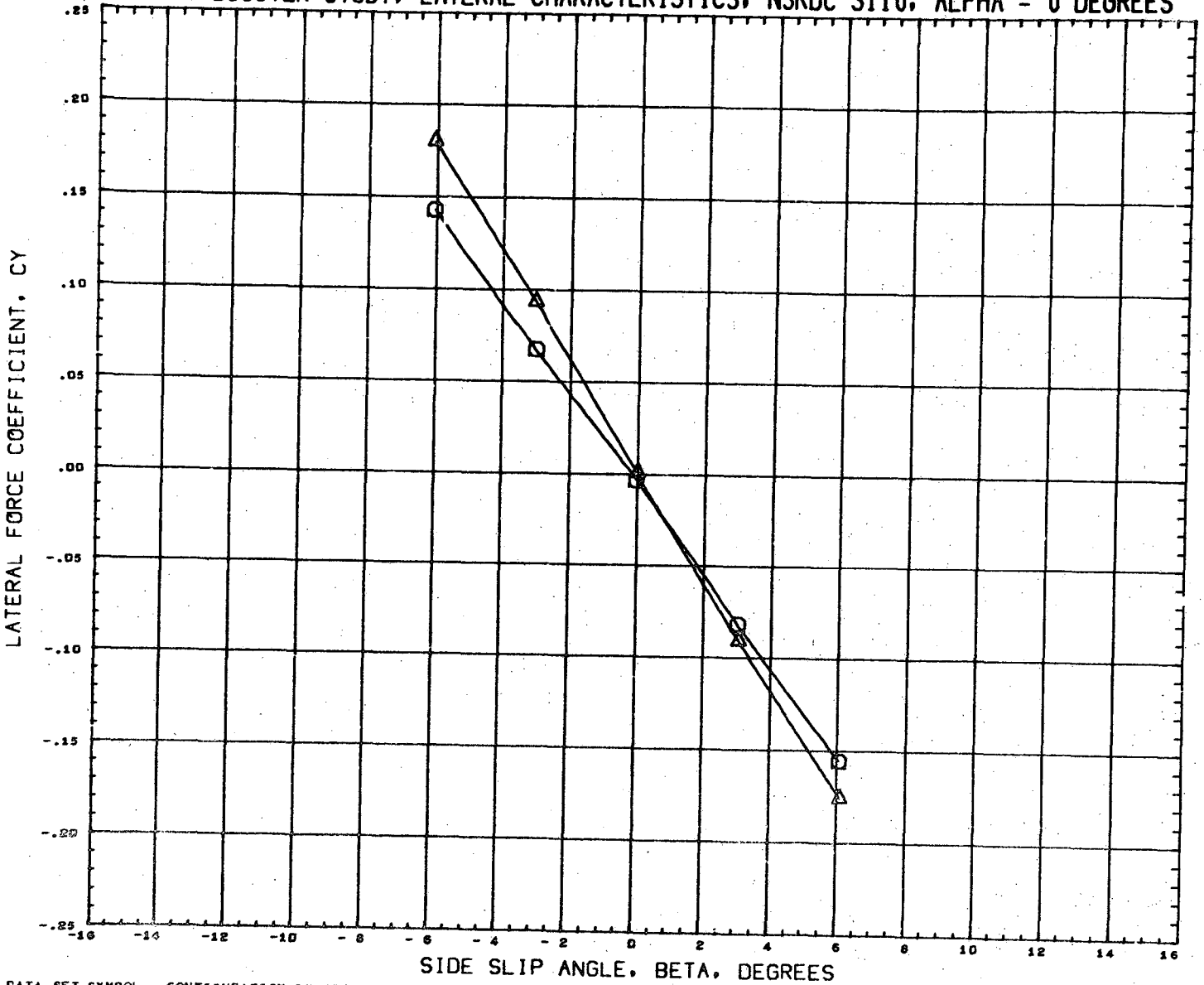
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2194)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2210)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.377

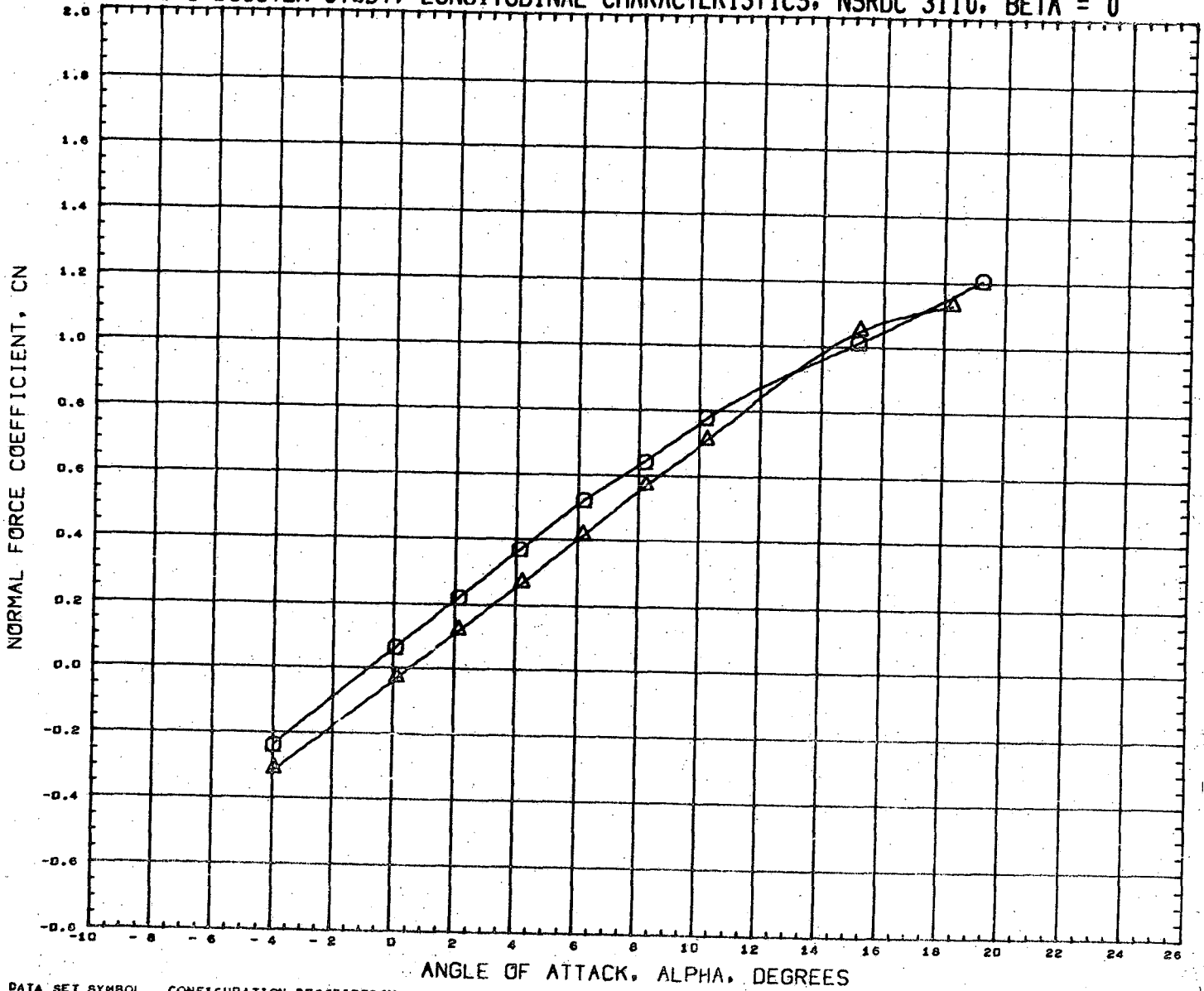
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2194)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2210)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.577

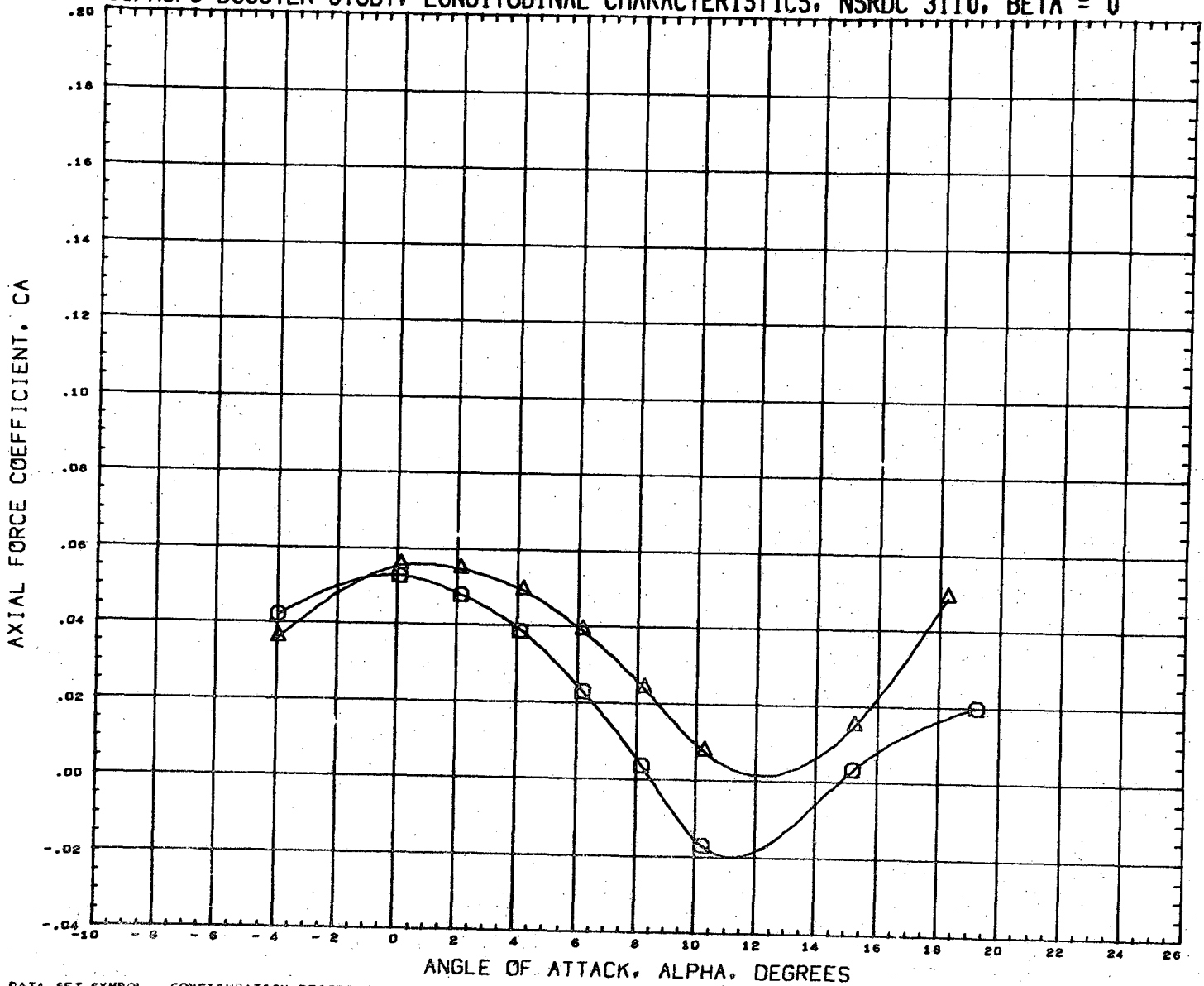
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2201)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						YMRP 31.1400 INCHES
						ZMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.301

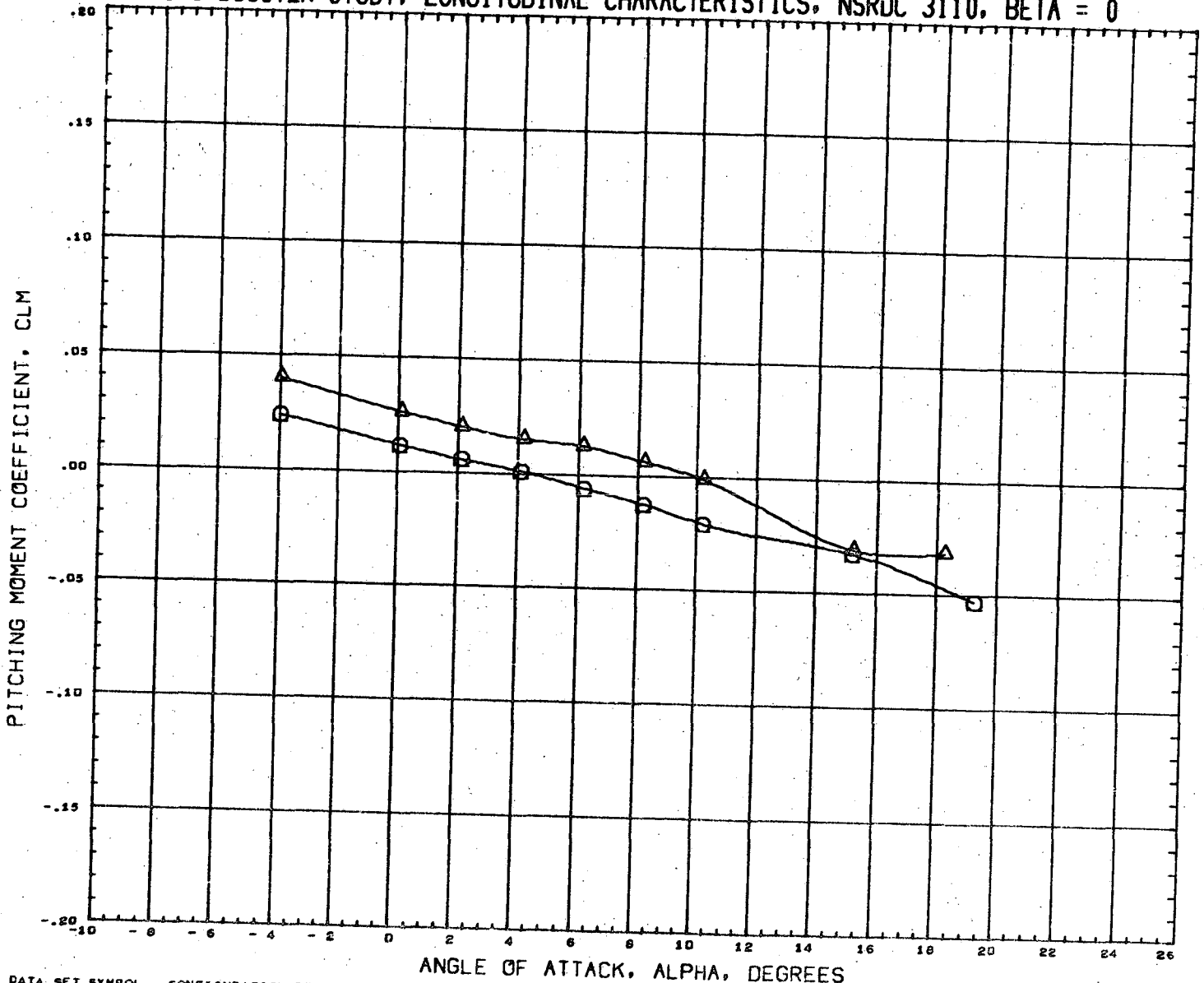
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2201)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2217)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2201)
(RN2217)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

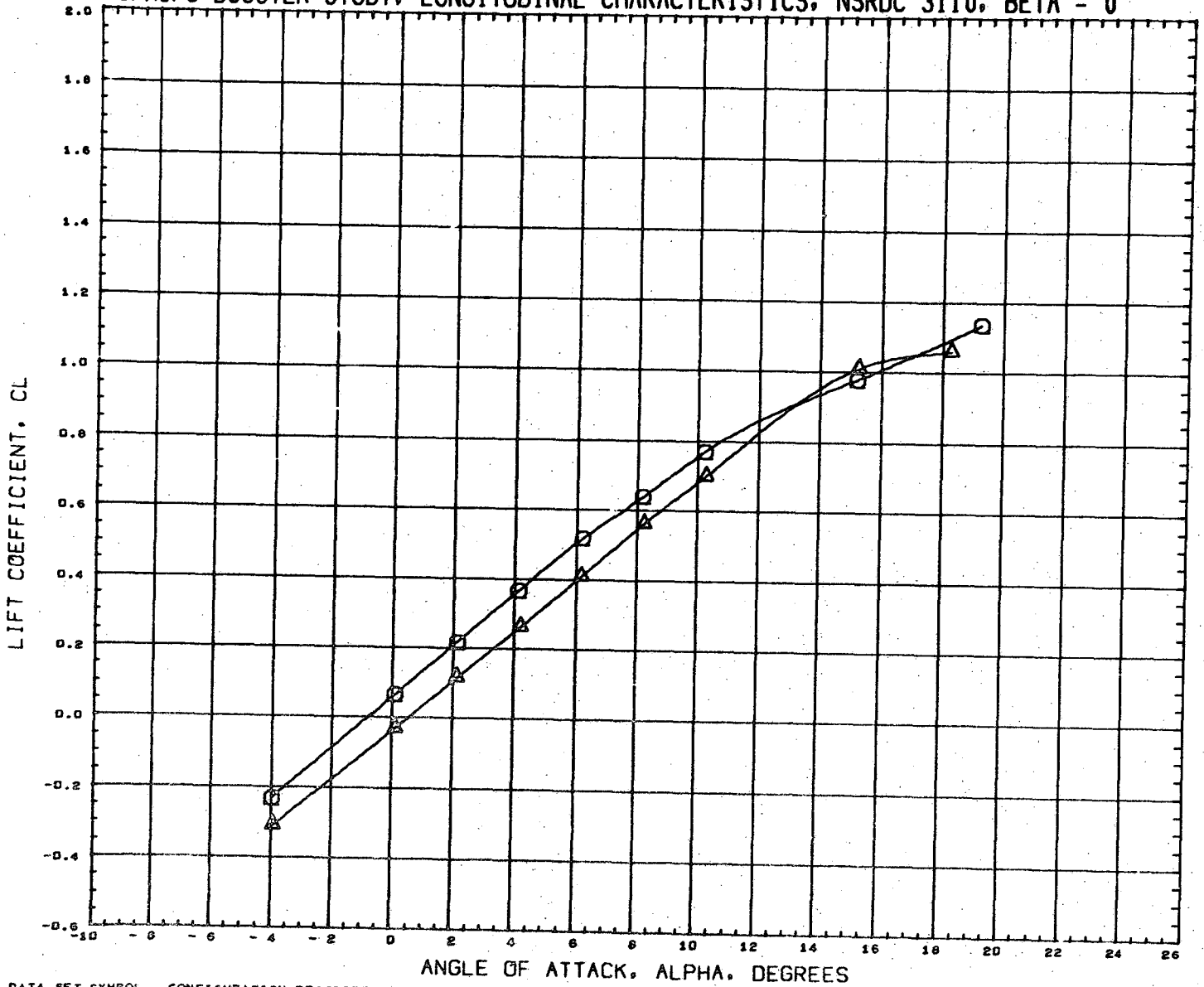
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

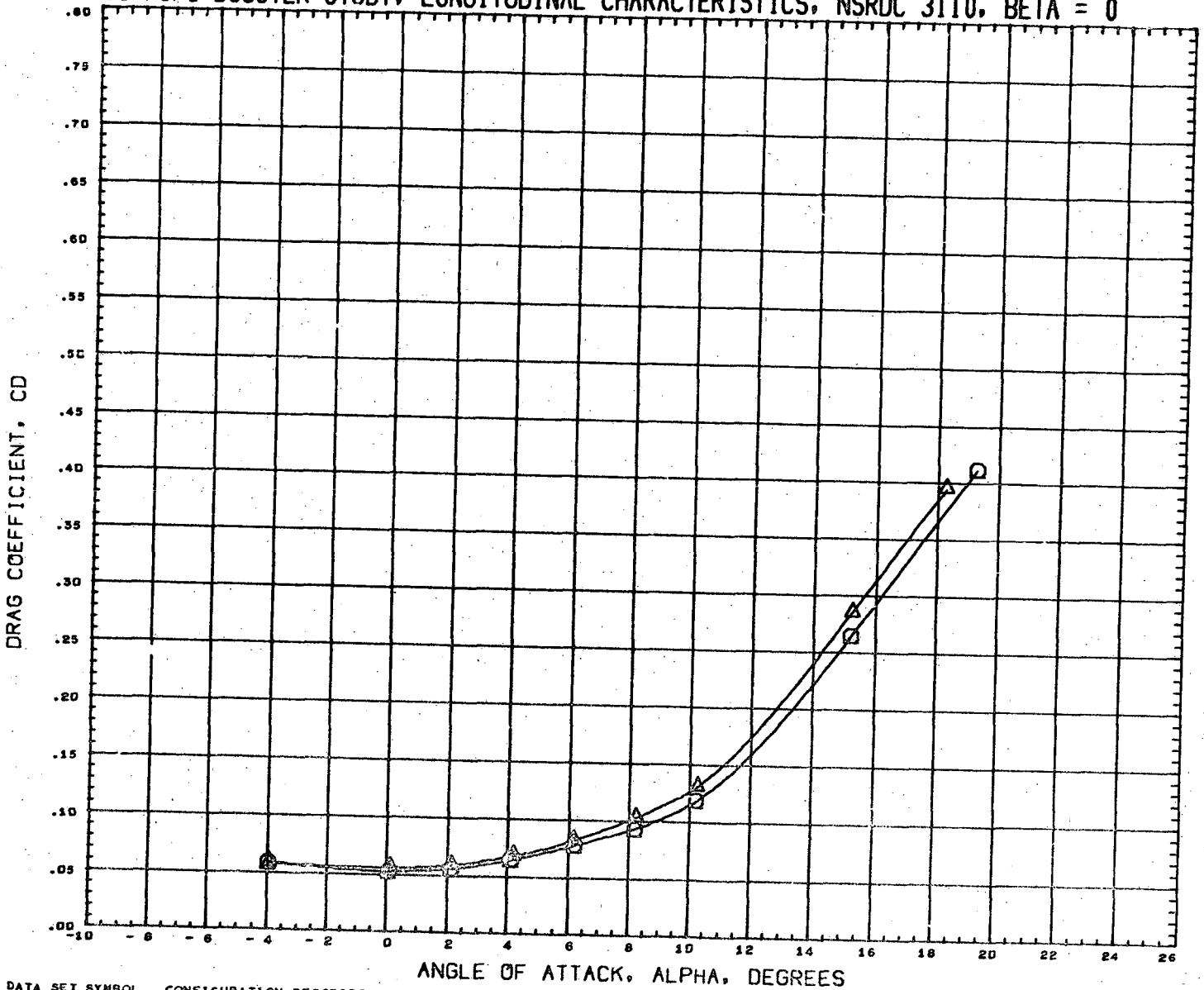
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2201)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2217)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

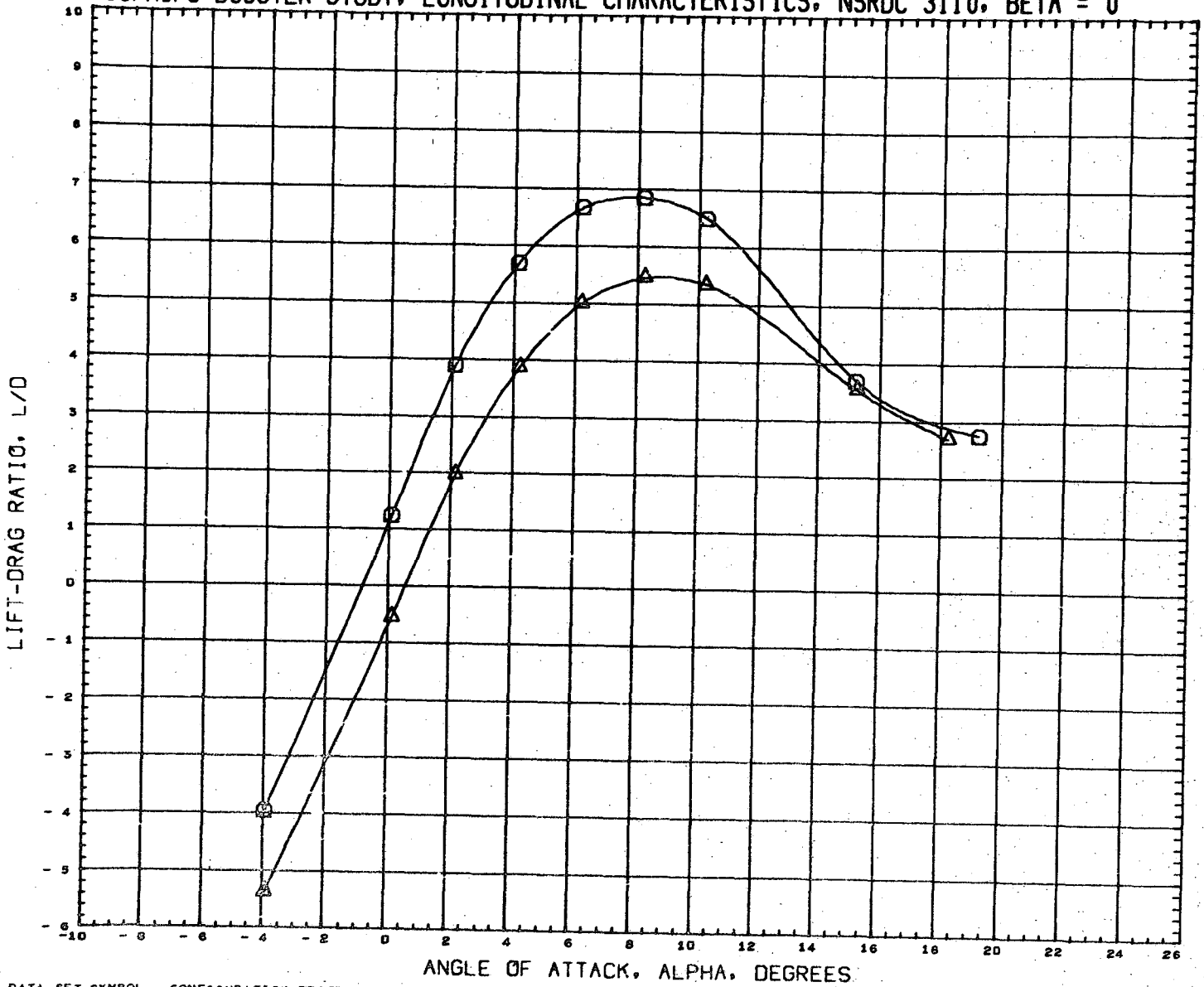


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2201)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2217)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

9A

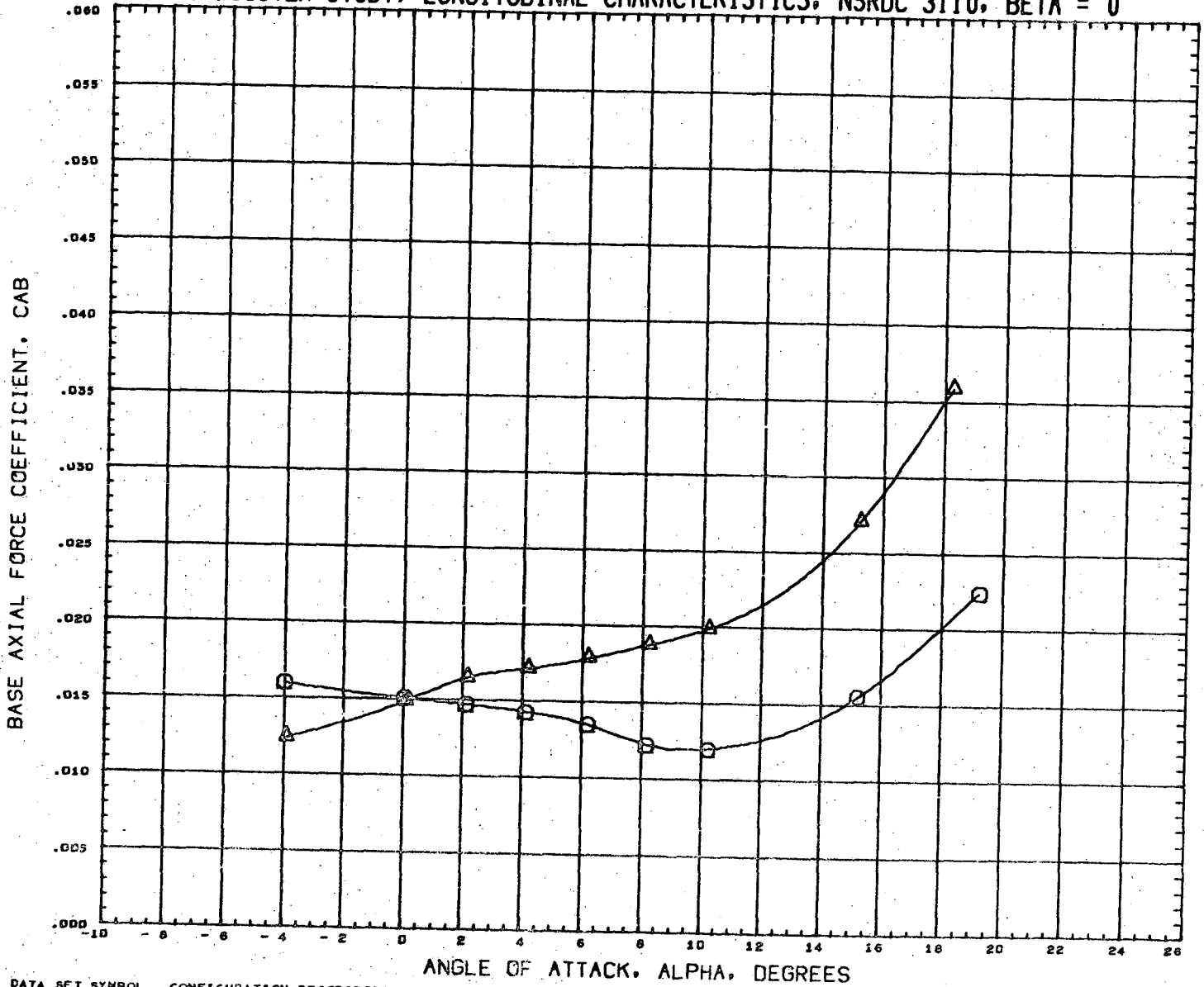
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2201)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2217)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2201) ○
 (RN2217) △

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

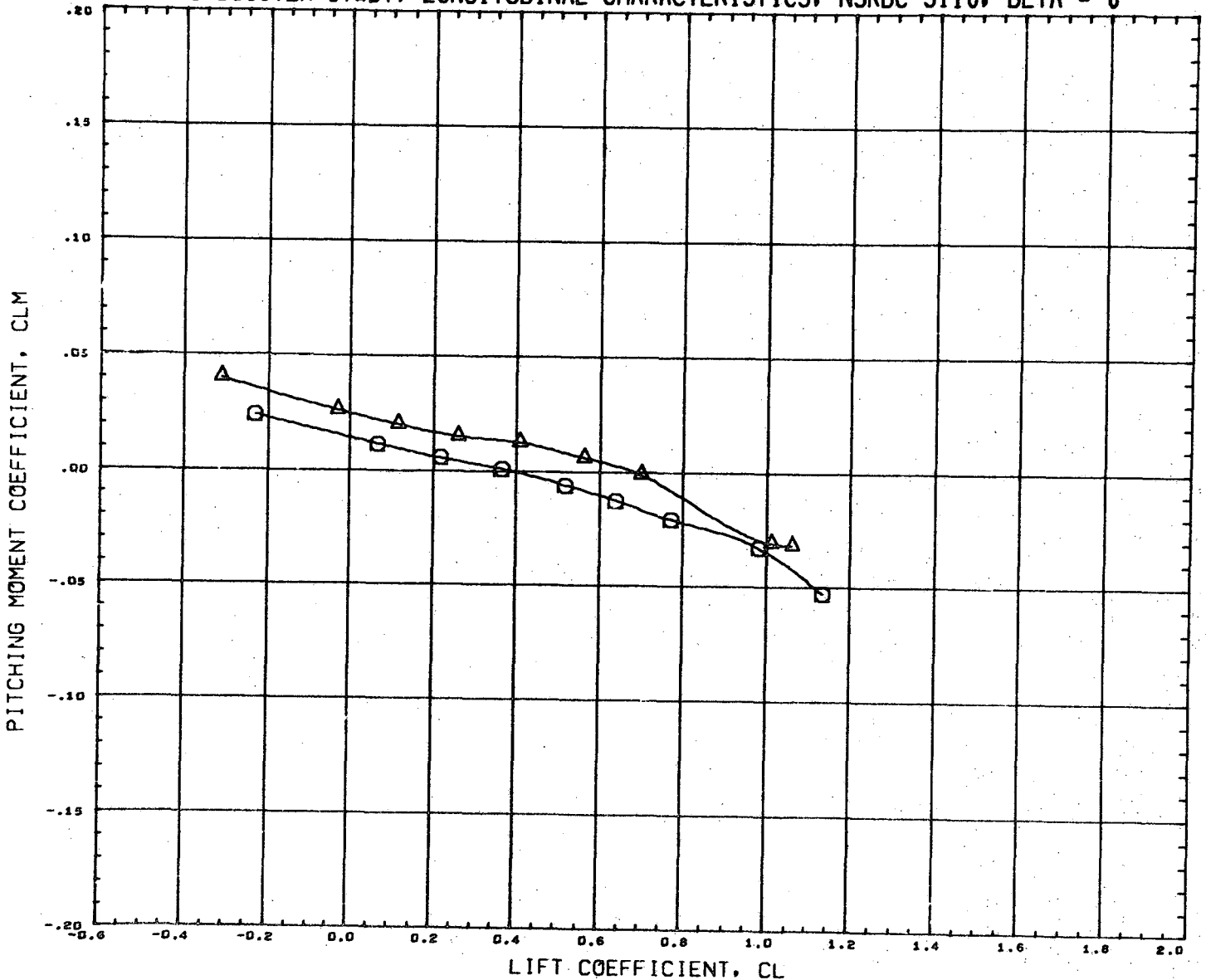
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

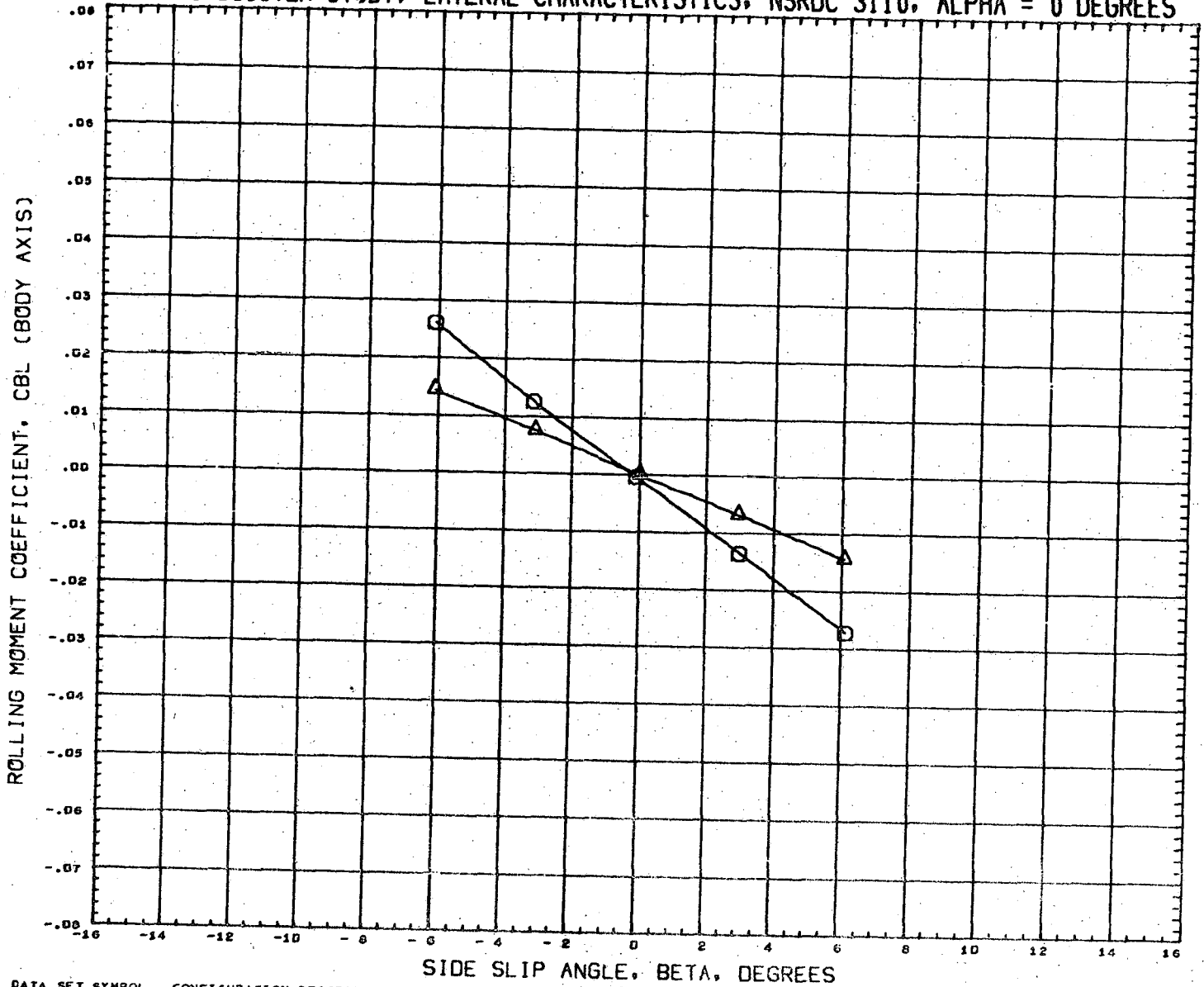
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2201)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2217)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2F1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2202) 
(RN2218) 

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

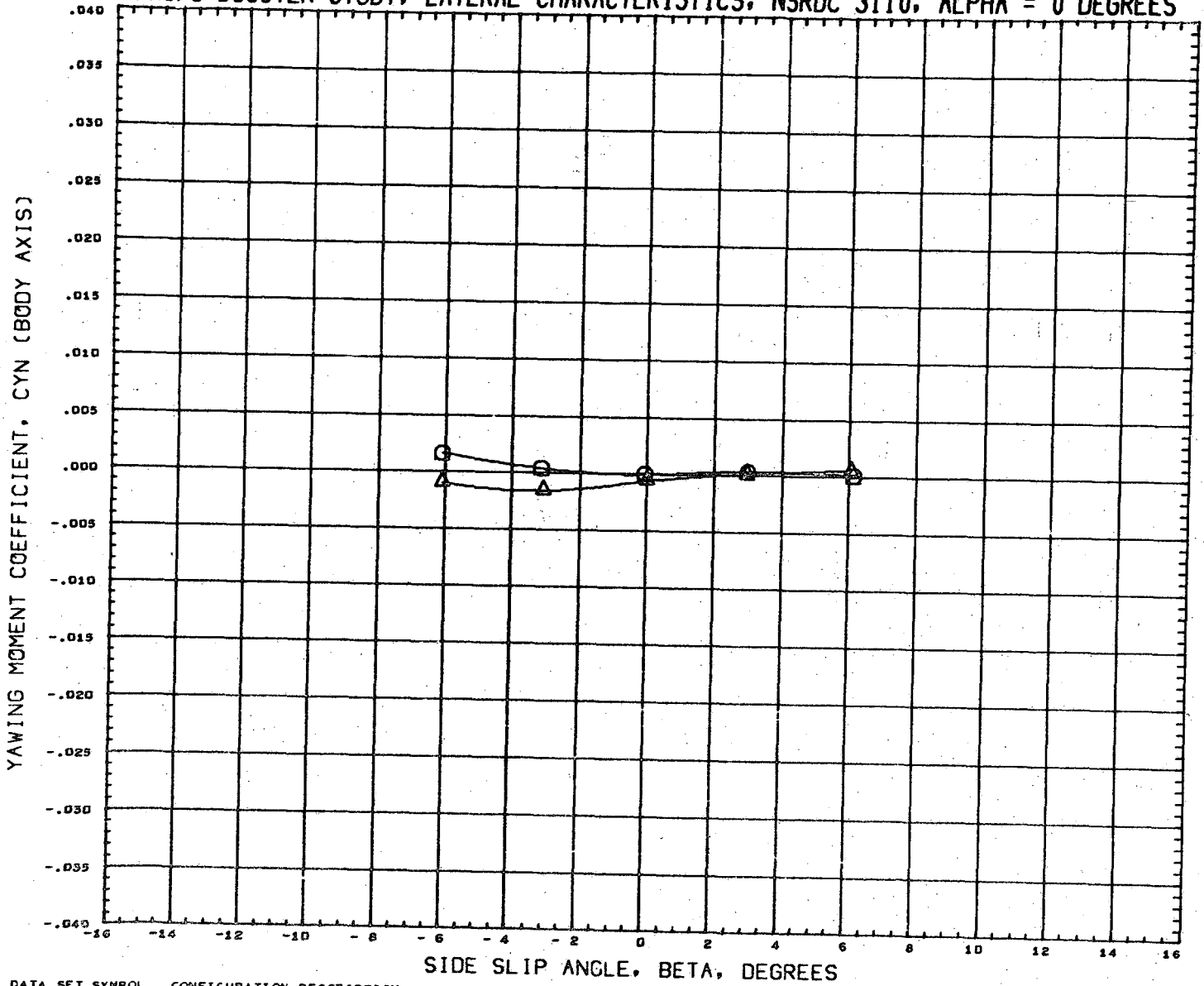
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SR.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.301

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2202) \circ
(RN2218) \triangle

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

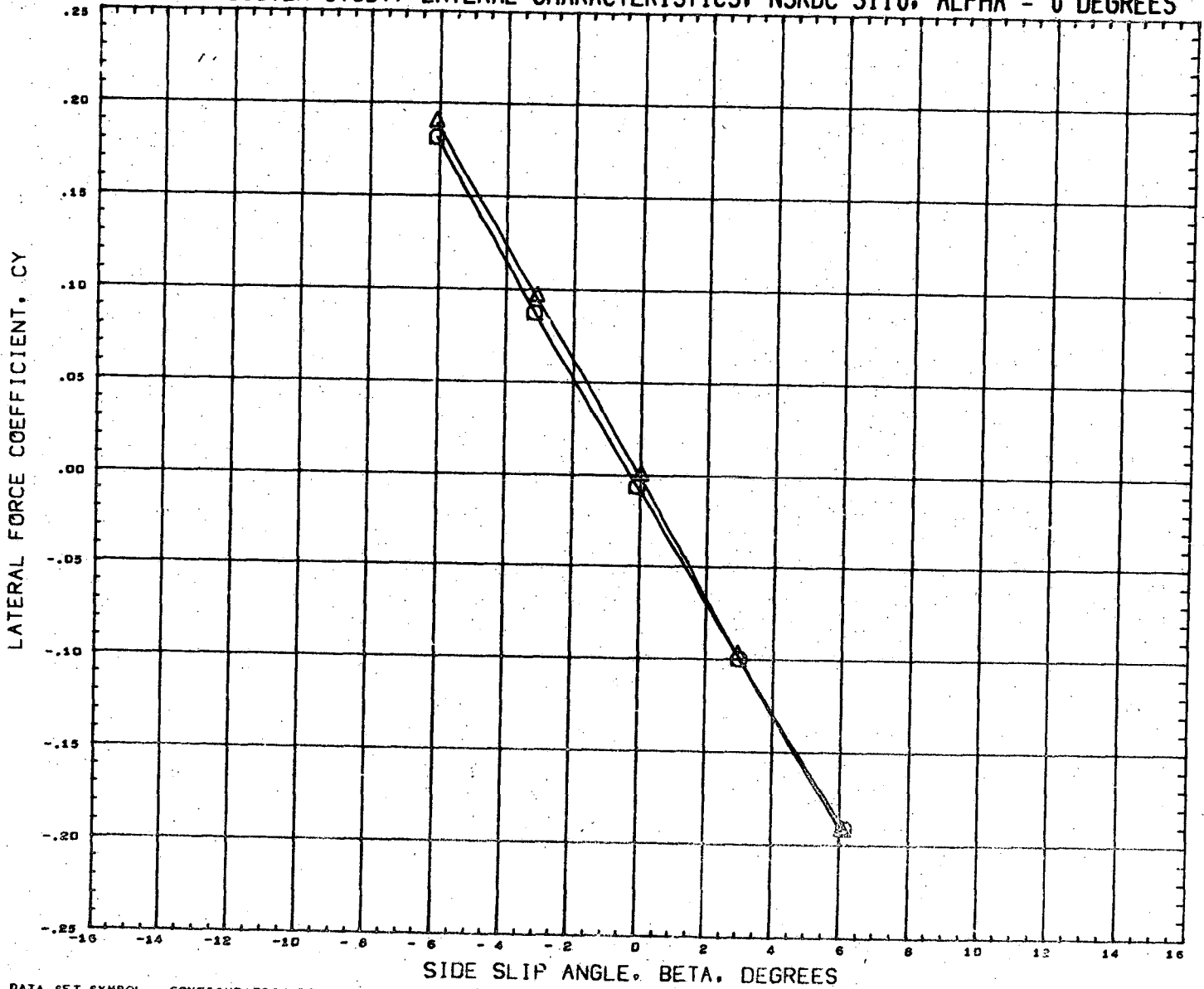
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000



REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.981

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2202) 
(RN2210) 

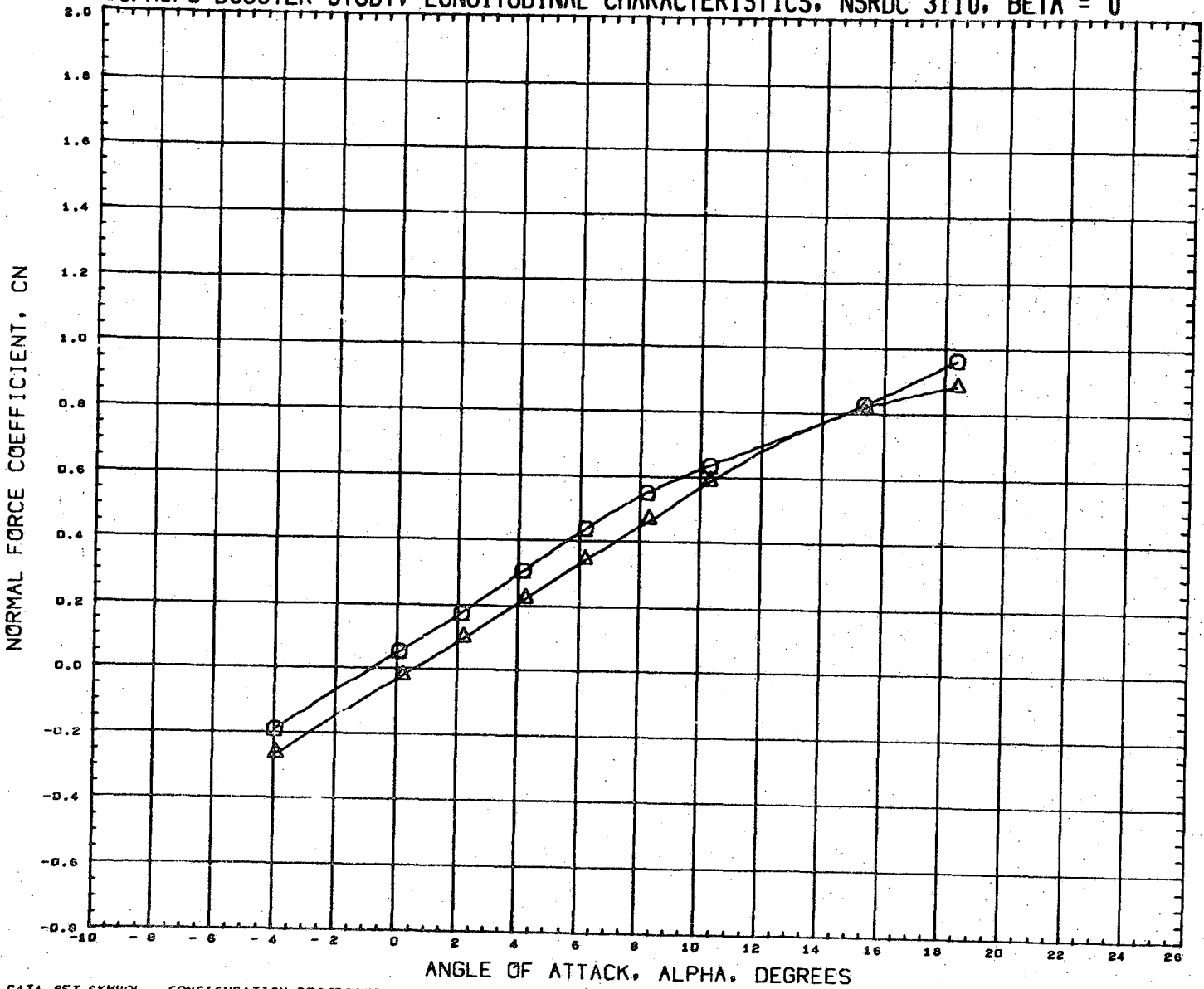
CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

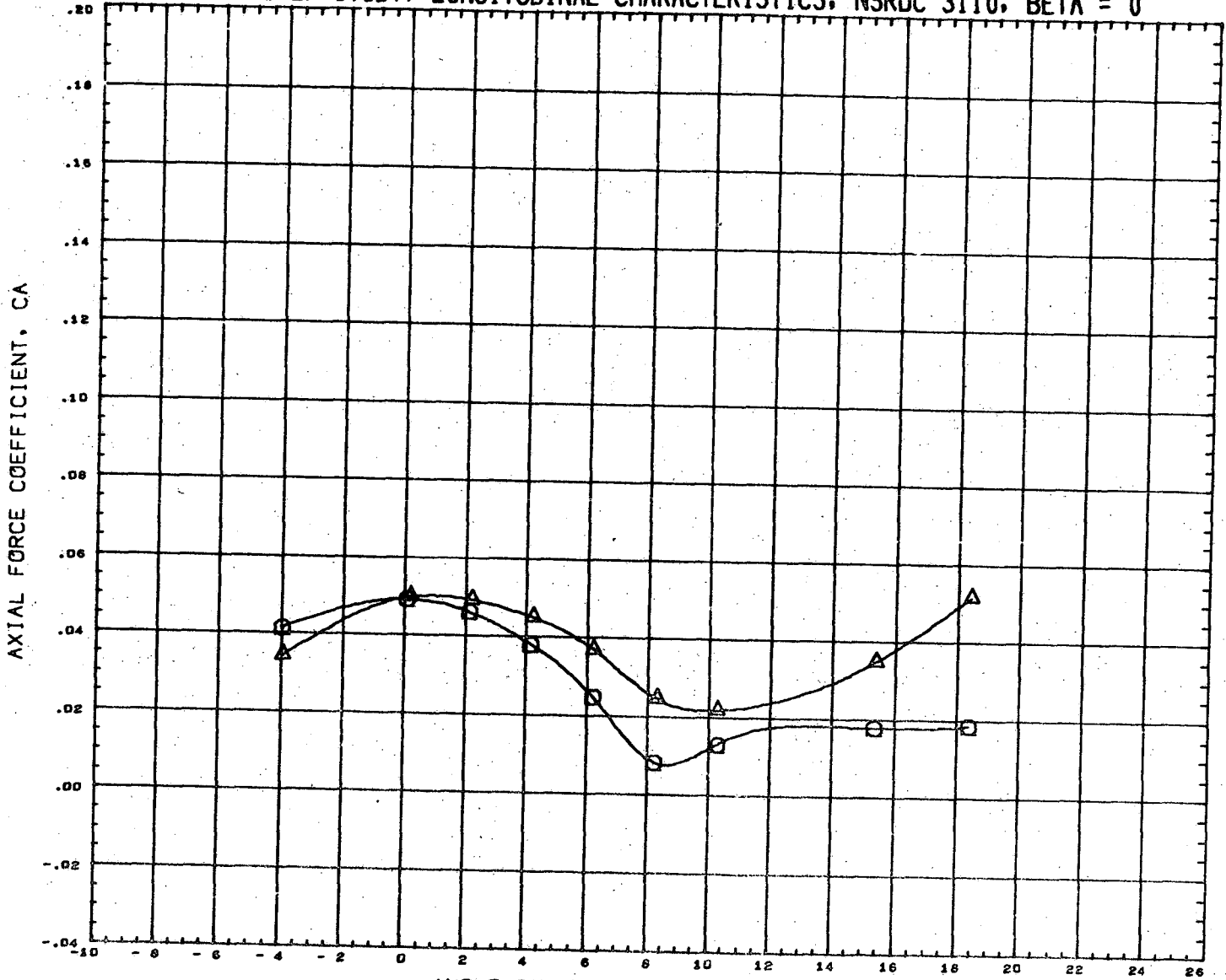
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2265)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2277)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

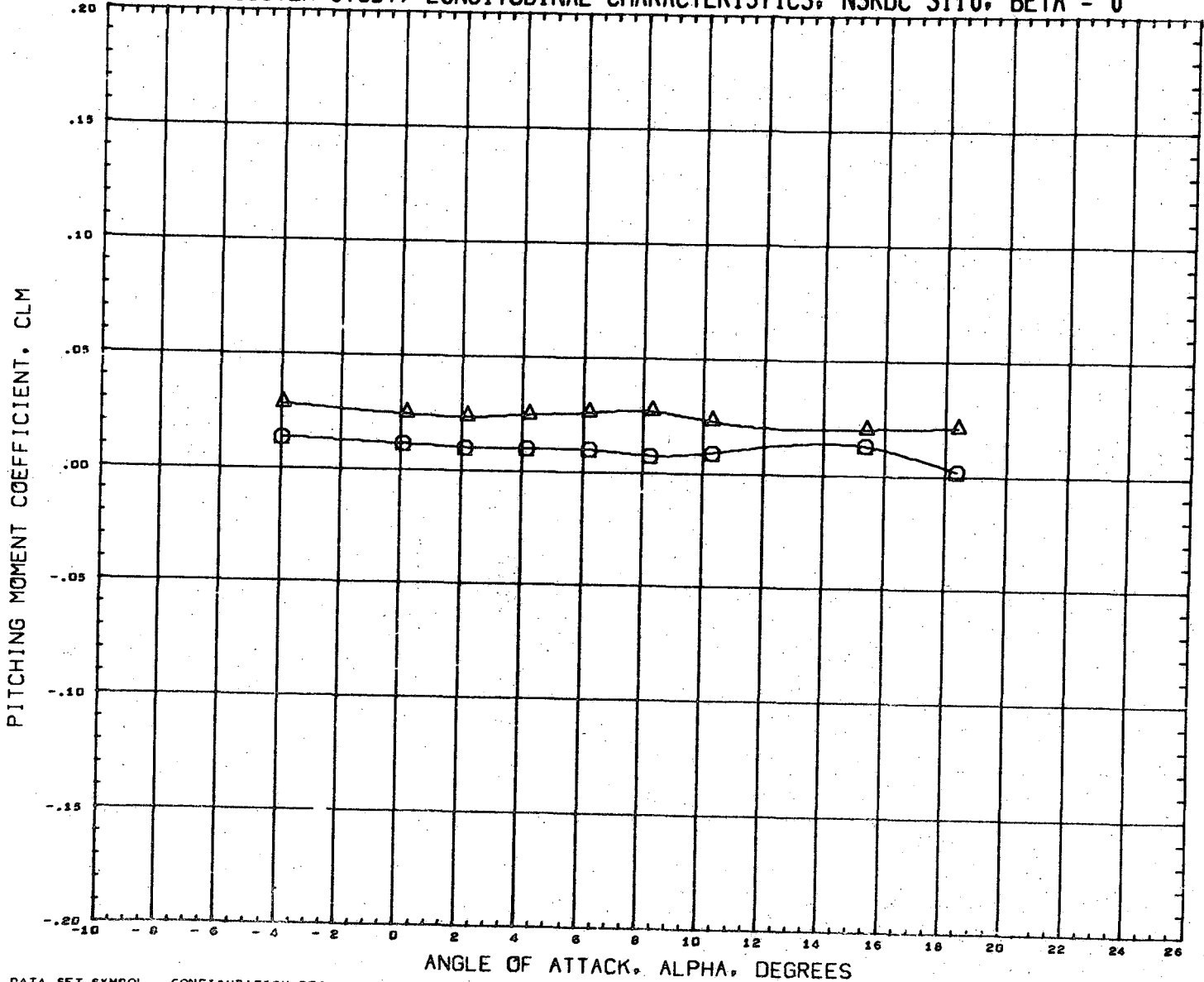
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2265)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2277)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2265)
(RN2277)

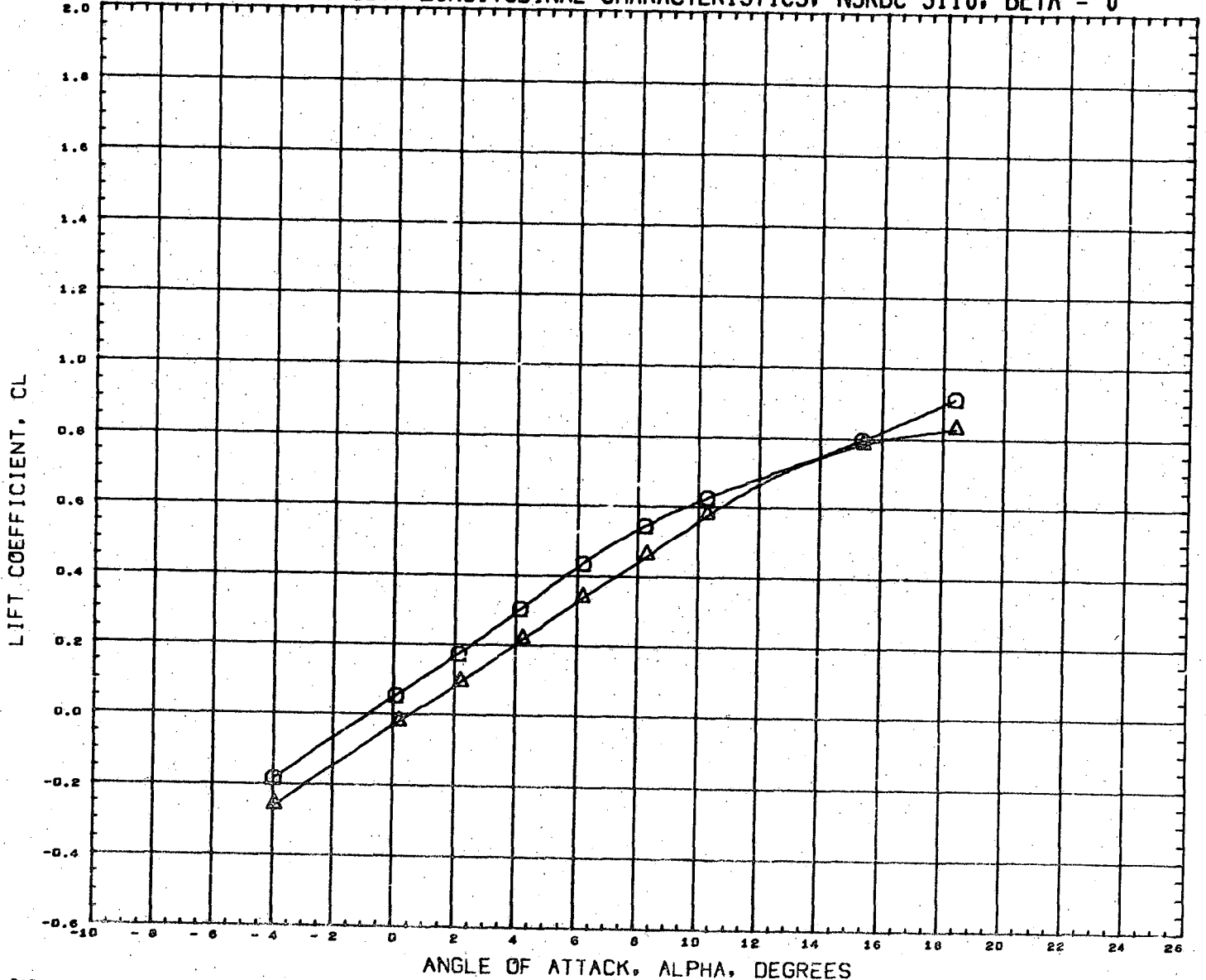
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC 3.000
CNDPOS 2.000
INCIDW 0.000
WNGPOS 1.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.381

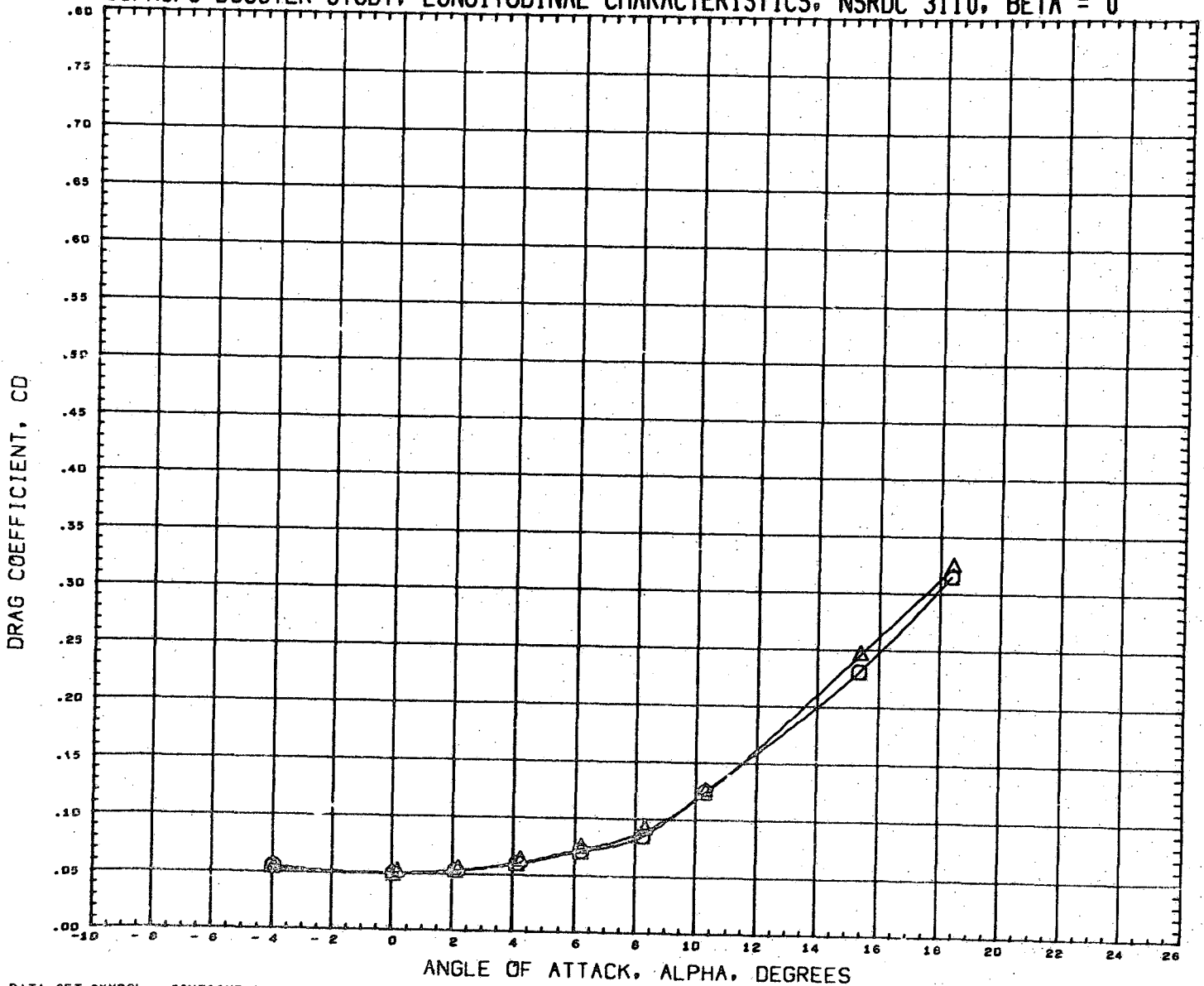
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNSPOS	REFERENCE INFORMATION
(RN2265)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2277)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2265) 
(RN2277) 

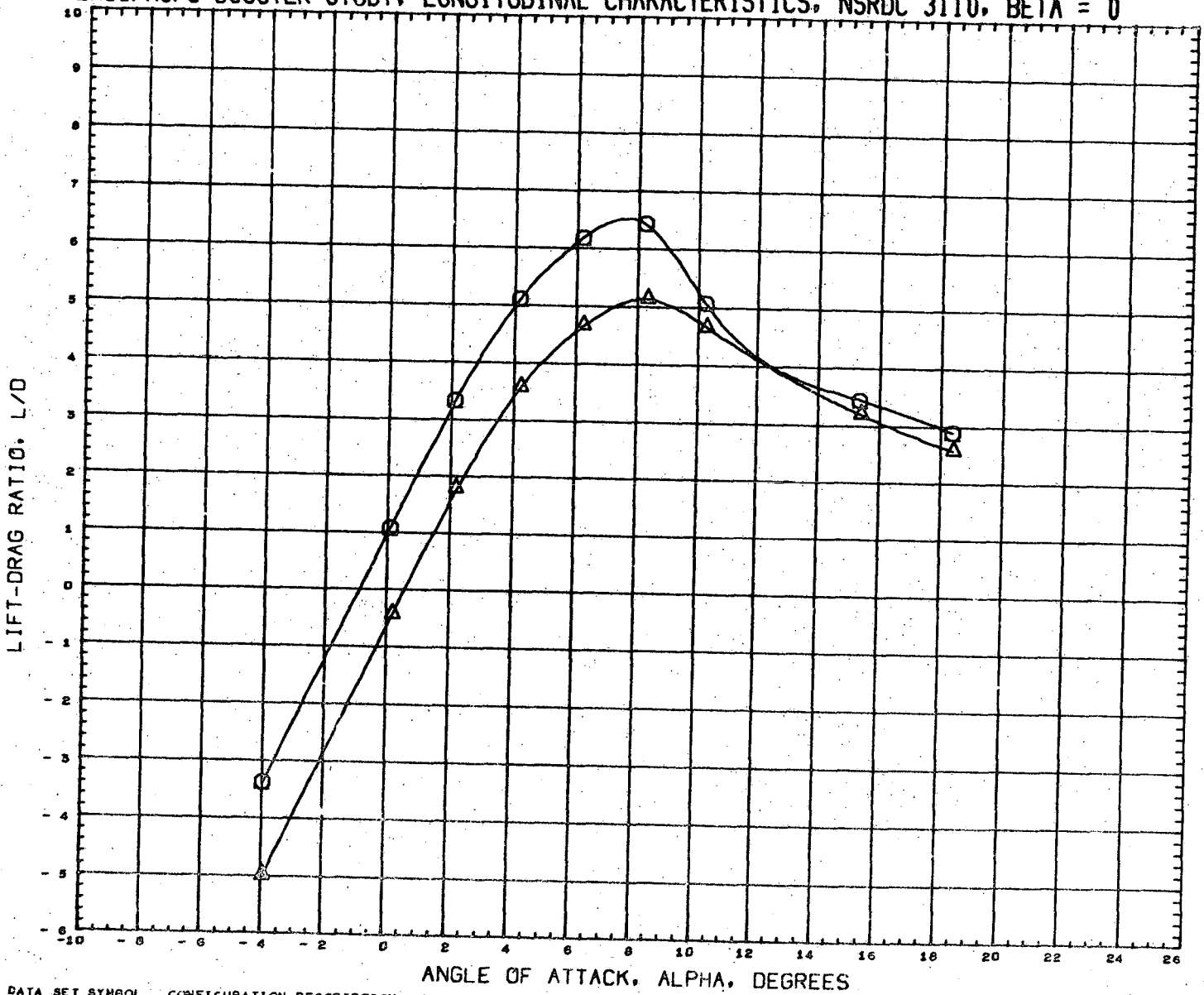
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.301

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2265)
 (RN2277)

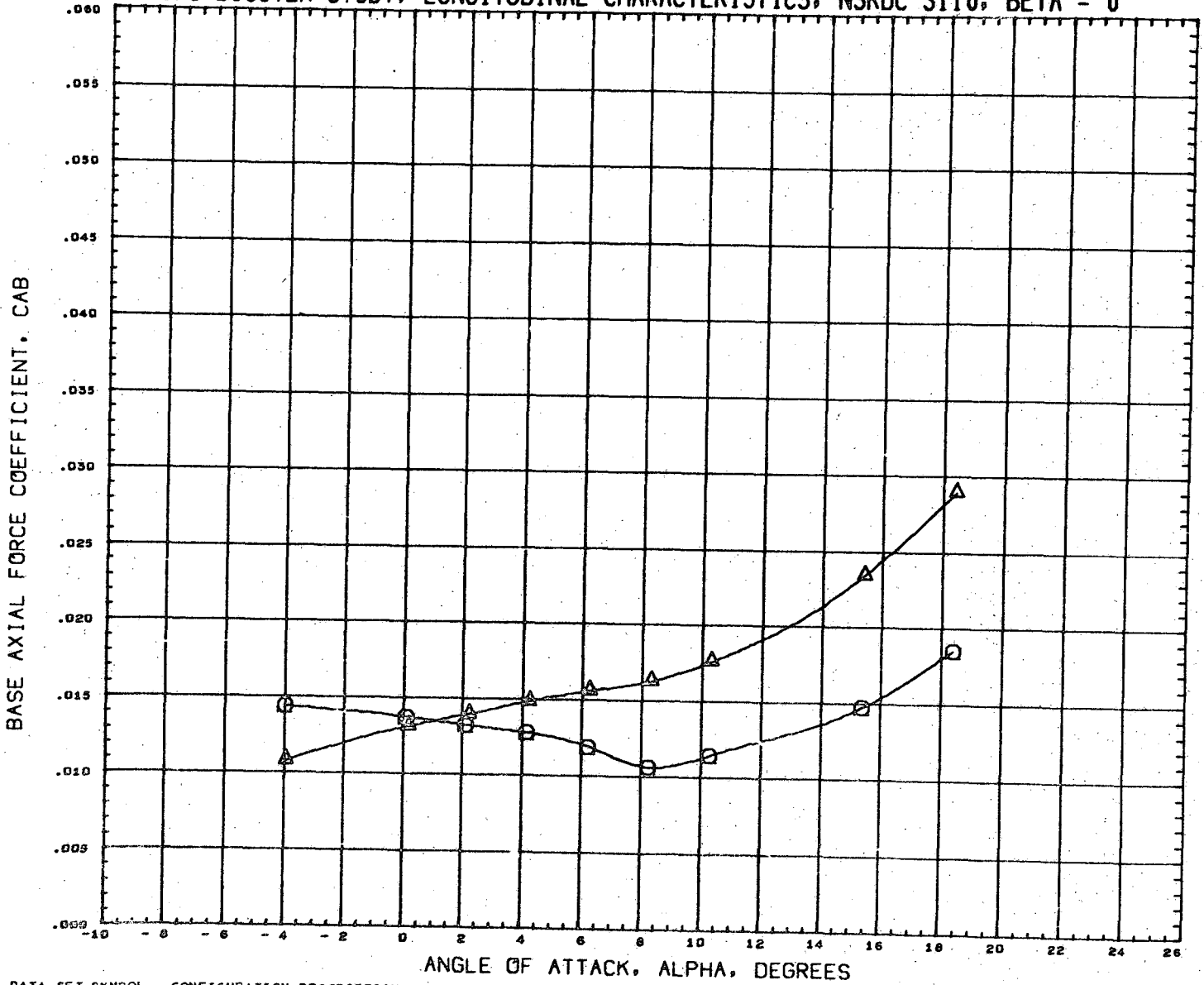
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
 NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W2D1



INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.501

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2265) 
(RN2277) 

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

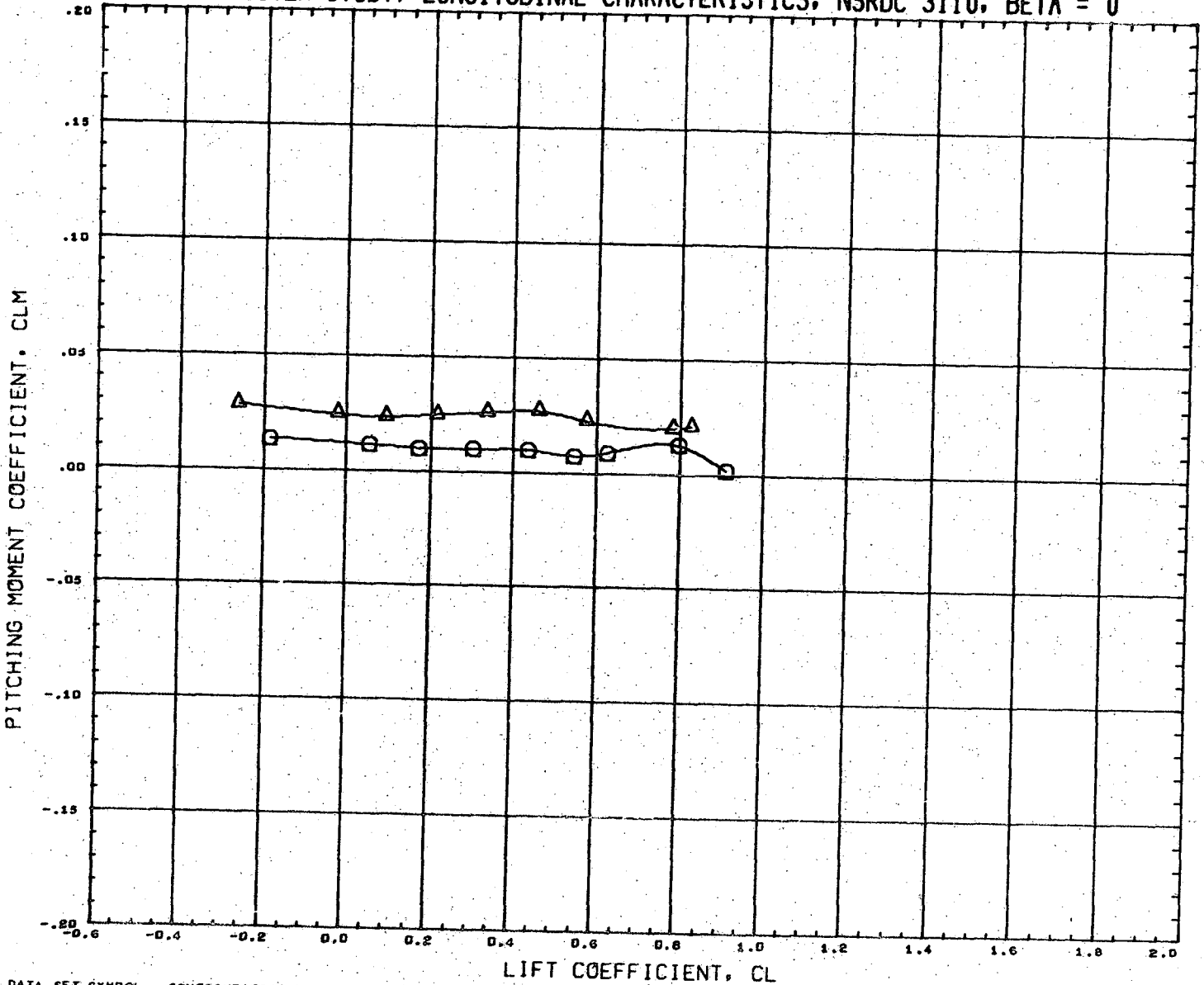
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2265) \square
(RN2277) \triangle

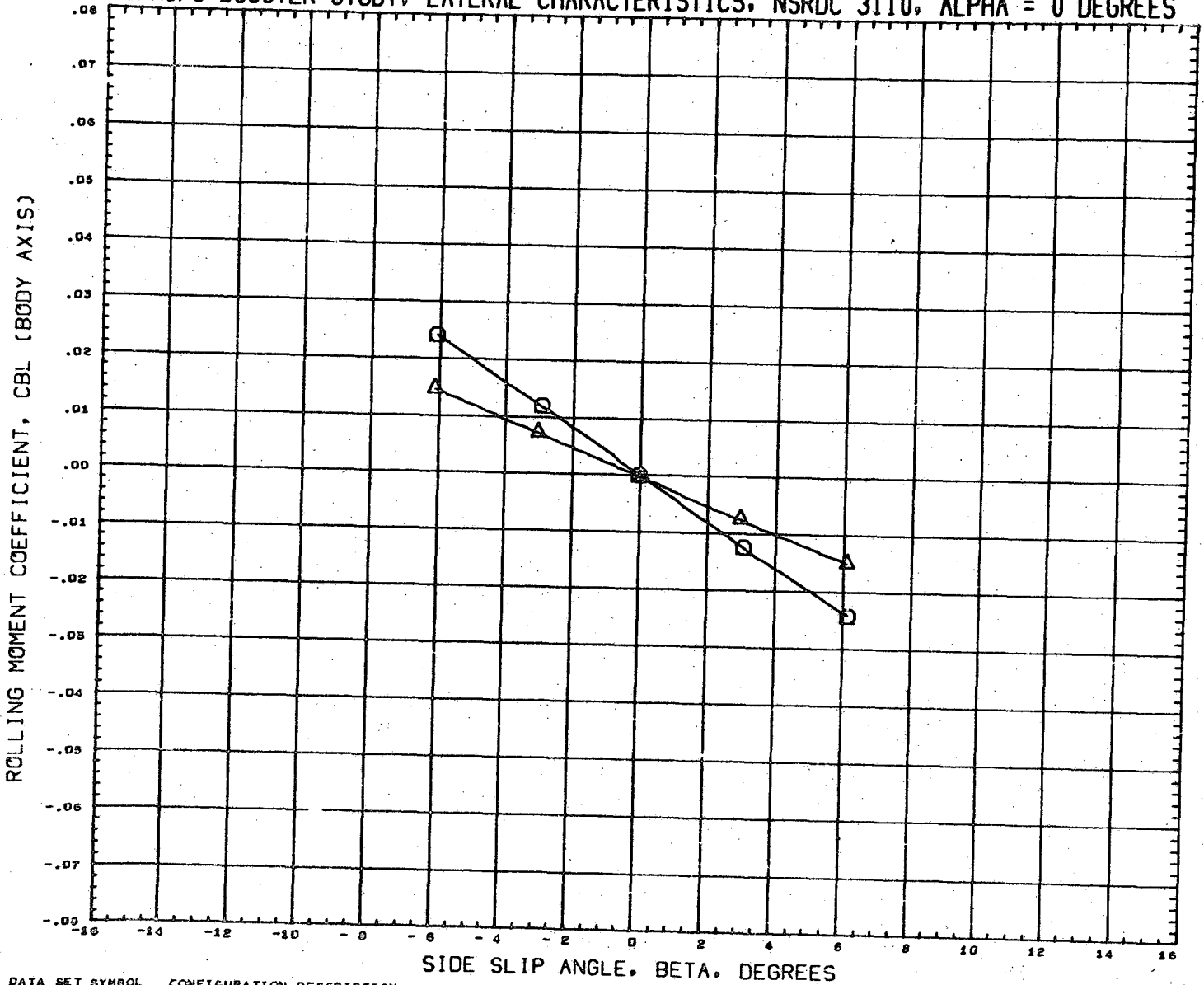
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC 3.000
CNDPOS 2.000
INCIDW 0.000
WNGPOS 1.000

REFERENCE INFORMATION
SREF 1.3550 SQ.FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



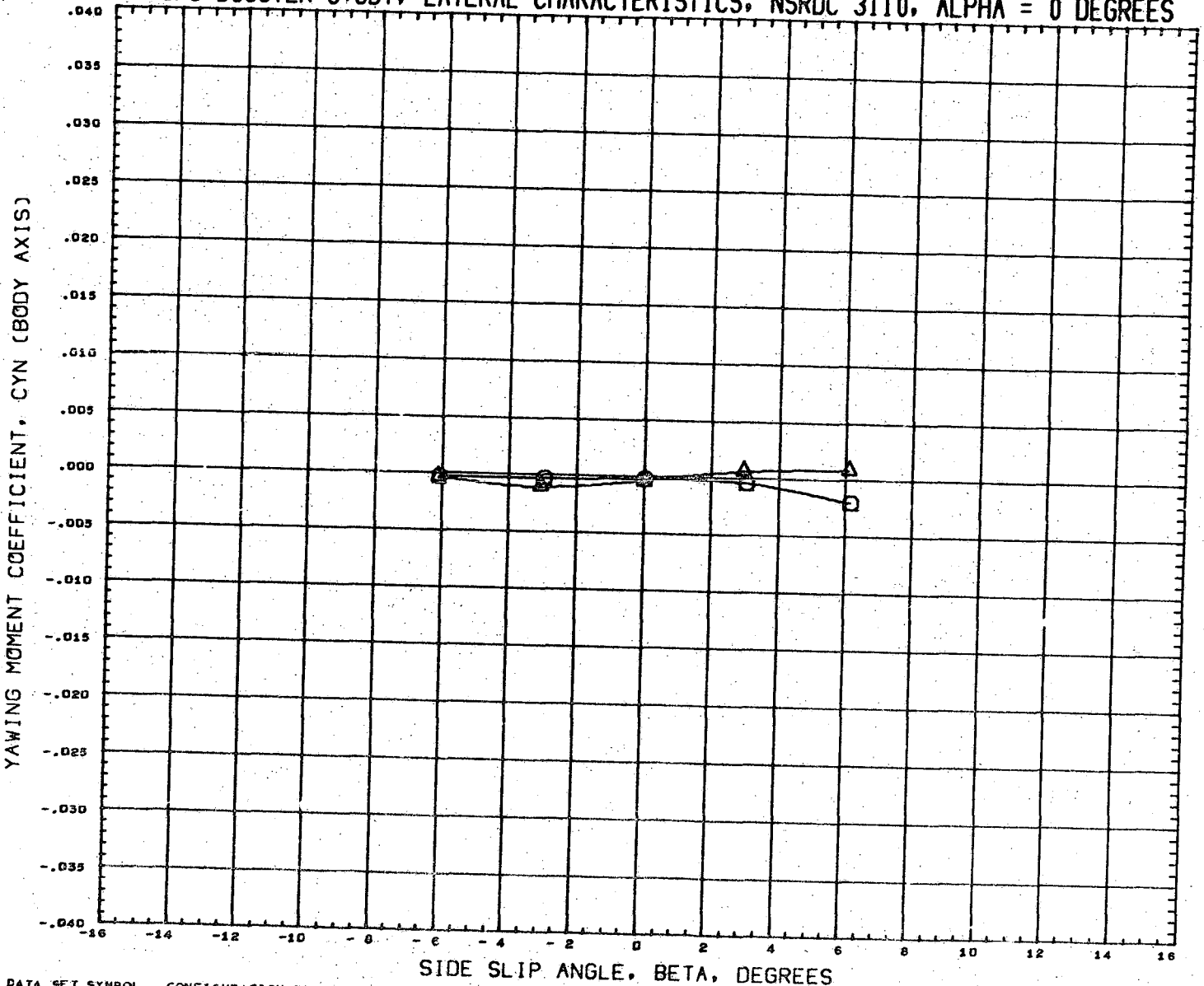
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2266)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2279)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1



INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.581

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2266) 
(RN2270) 

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

SIDE SLIP ANGLE, BETA, DEGREES

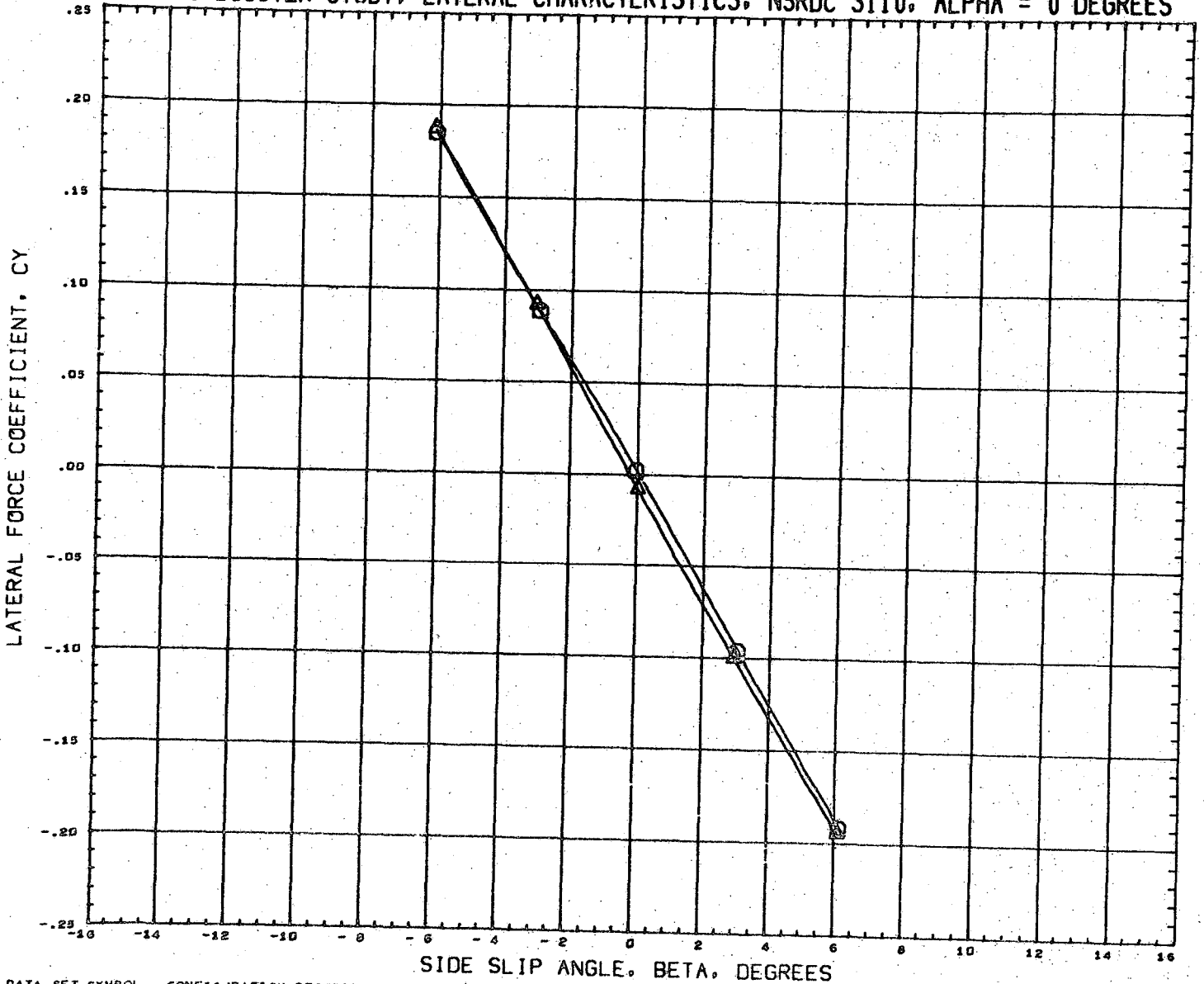
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



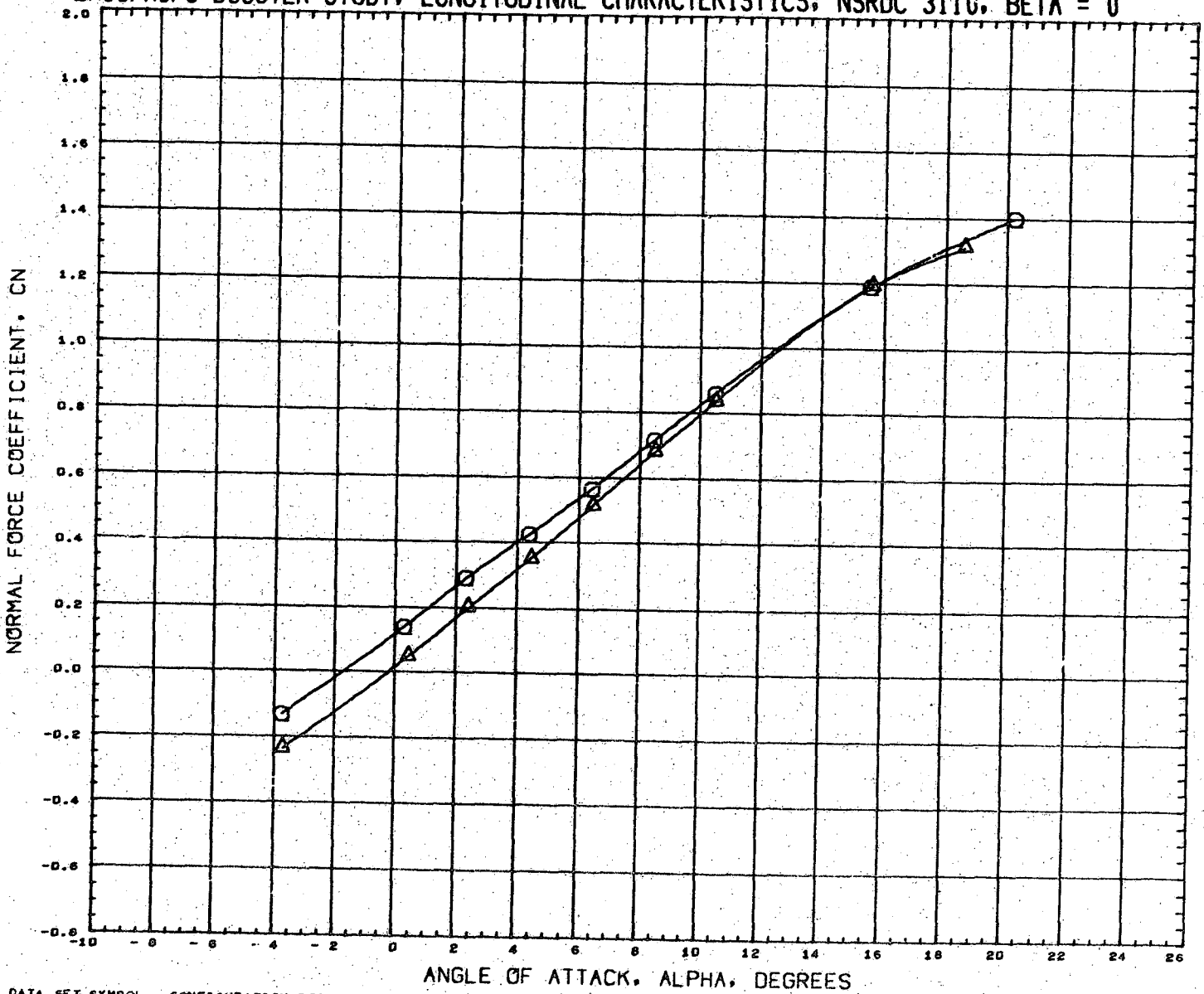
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2266) NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
 (RN2278) NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC 3.000
 CNDPOS 2.000
 INCIDW 0.000
 WNGPOS 1.000
 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

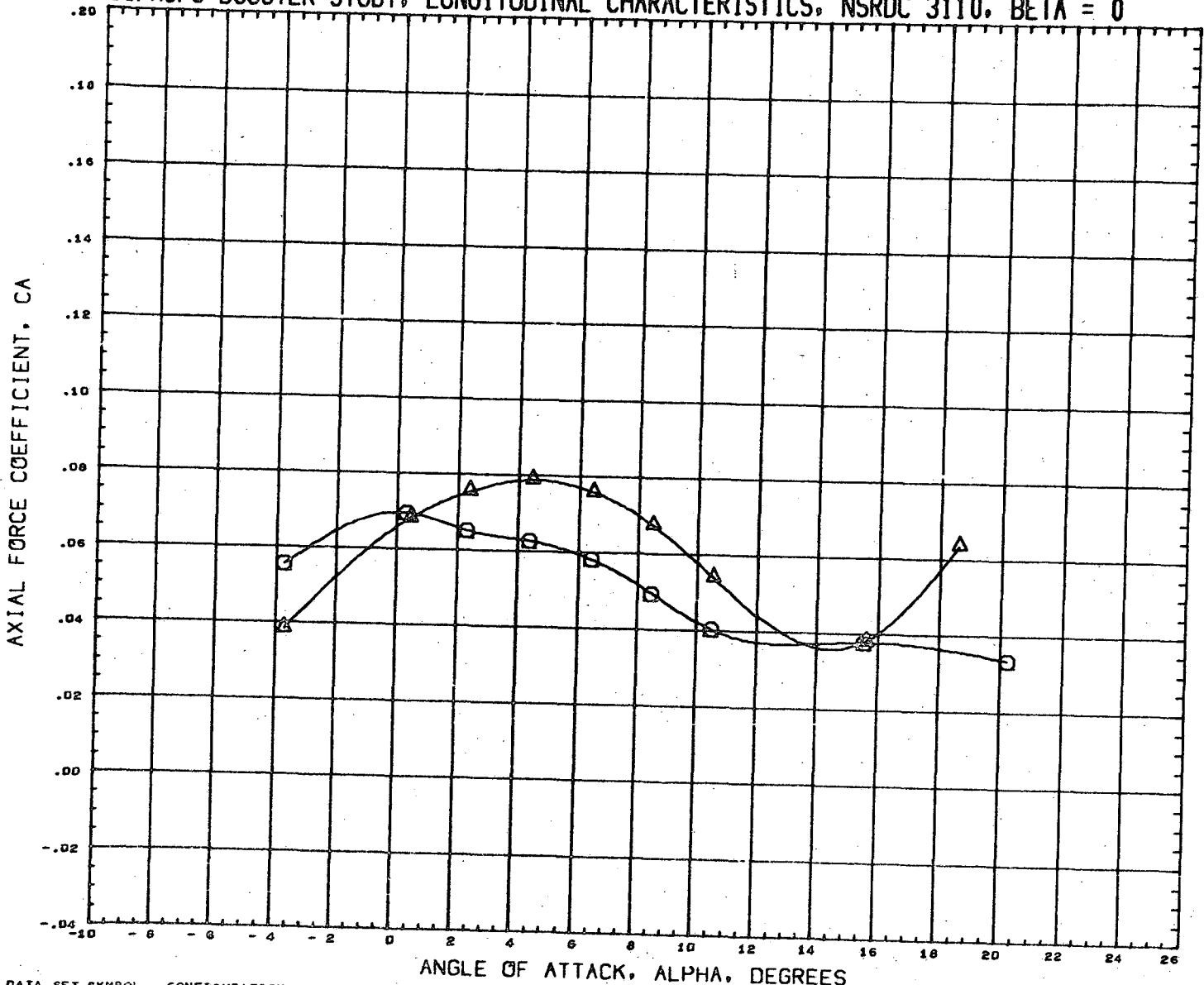


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2021)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
				BREF 41.4360 INCHES
				XMRP 31.1400 INCHES
				YMRP 0.0000 INCHES
				ZMRP 0.2250 INCHES
				SCALE 1.5000 PERCENT

MACH 0.379

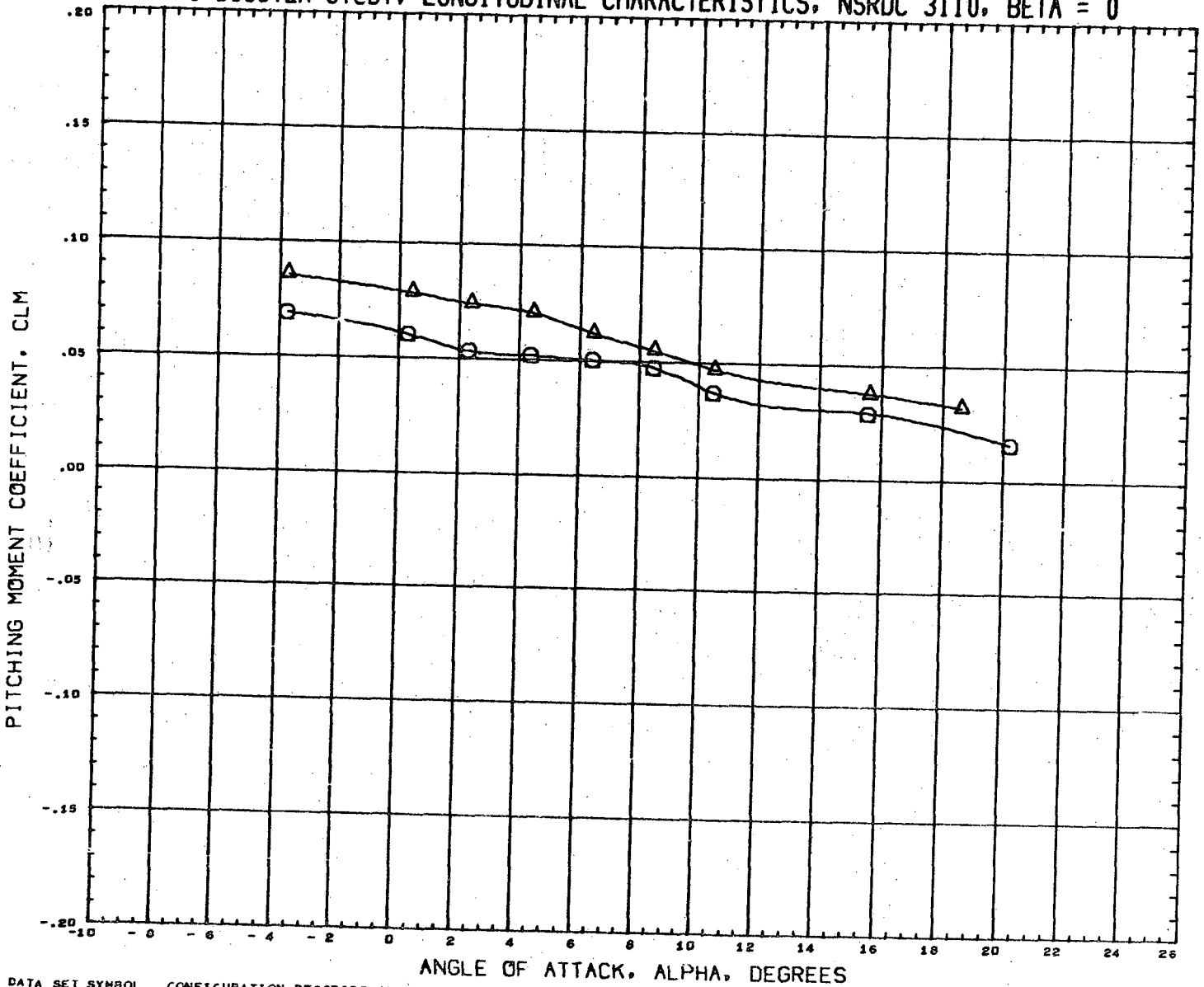
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2UD5)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2G21)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.279

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2005) 
(RN2021) 

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

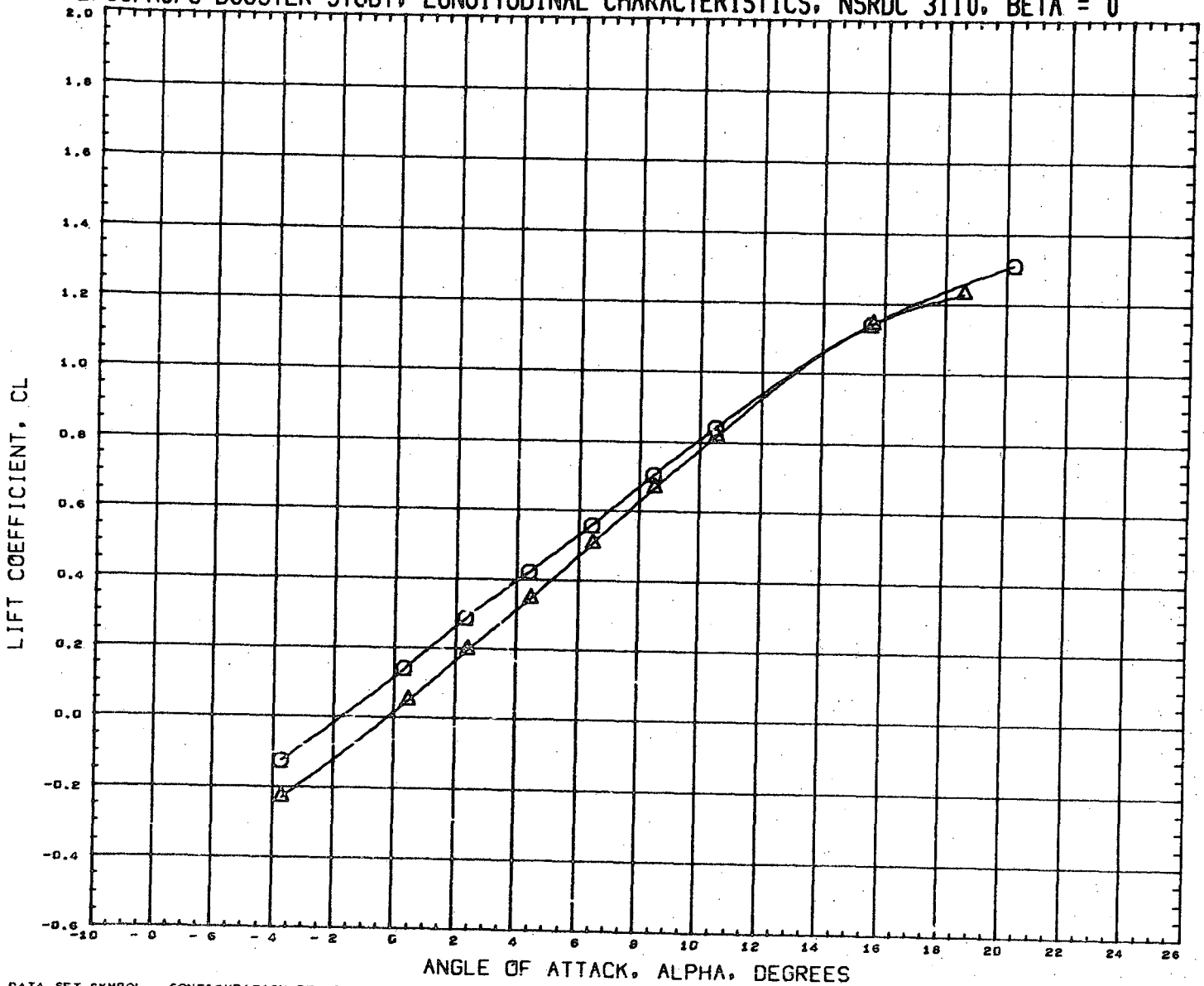
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH : 0.379

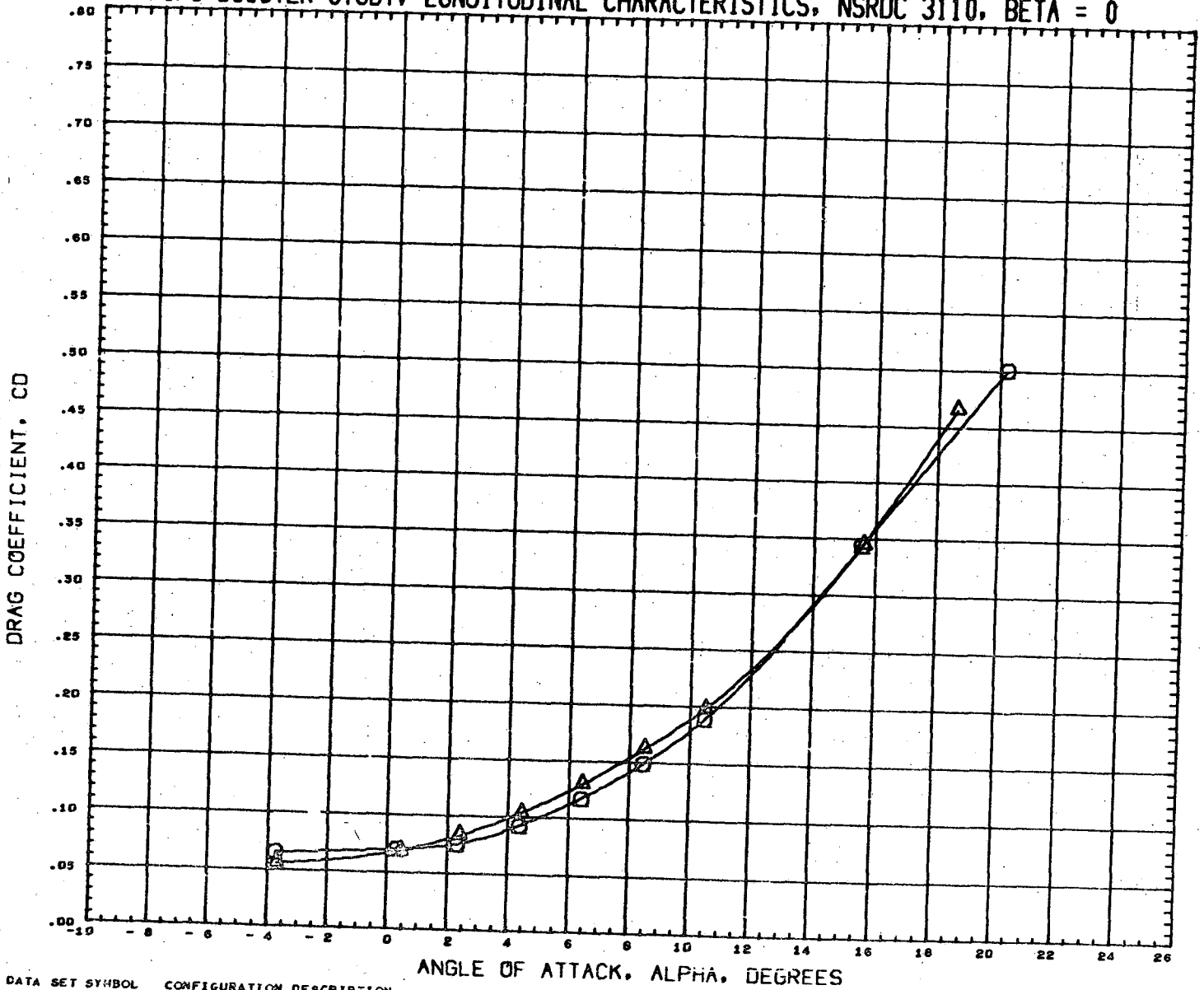
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2005)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2021)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2005)
(RN2021)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XNRP	31.1400 INCHES
YNRP	0.0000 INCHES
ZNRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.379

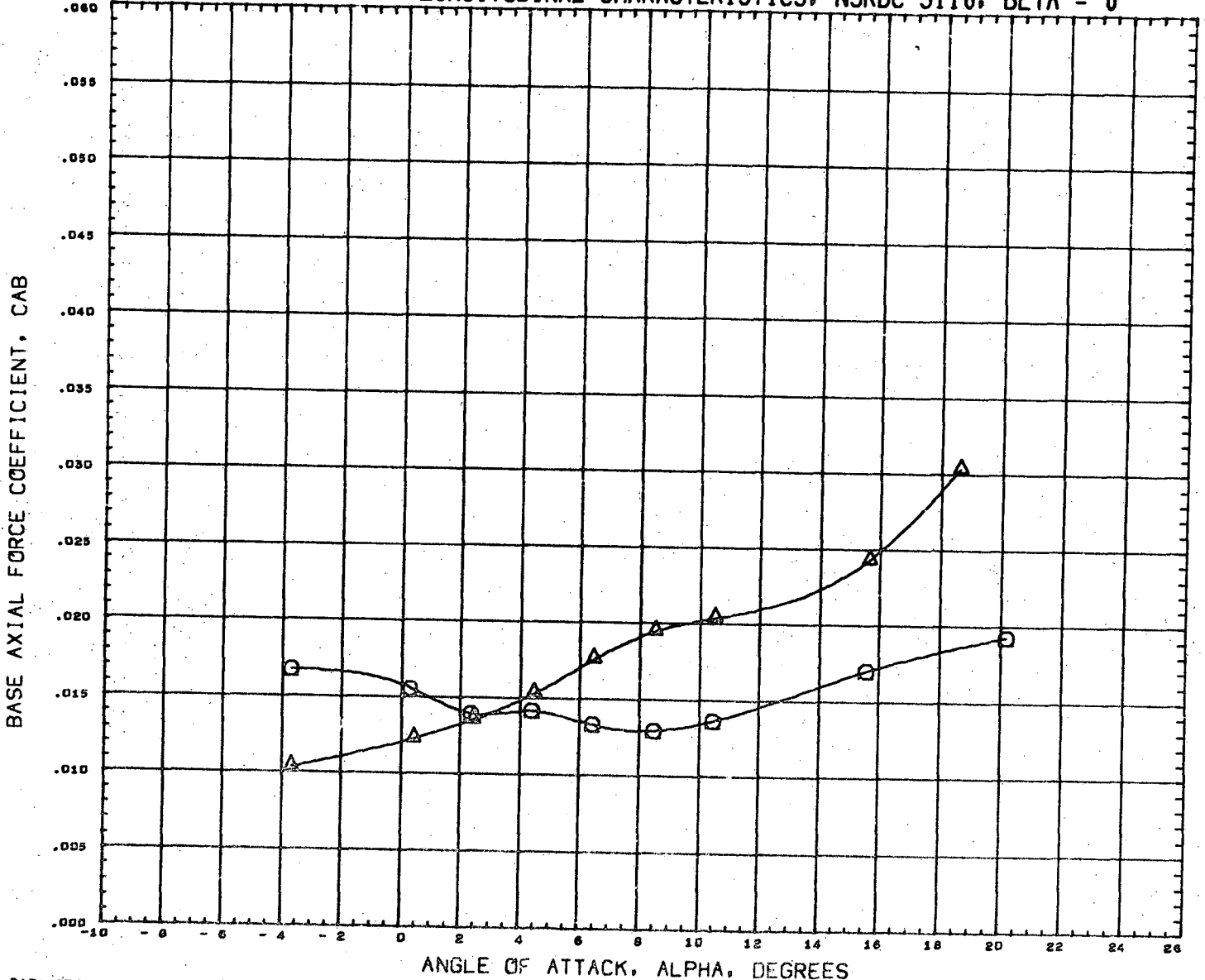
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2005)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2021)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

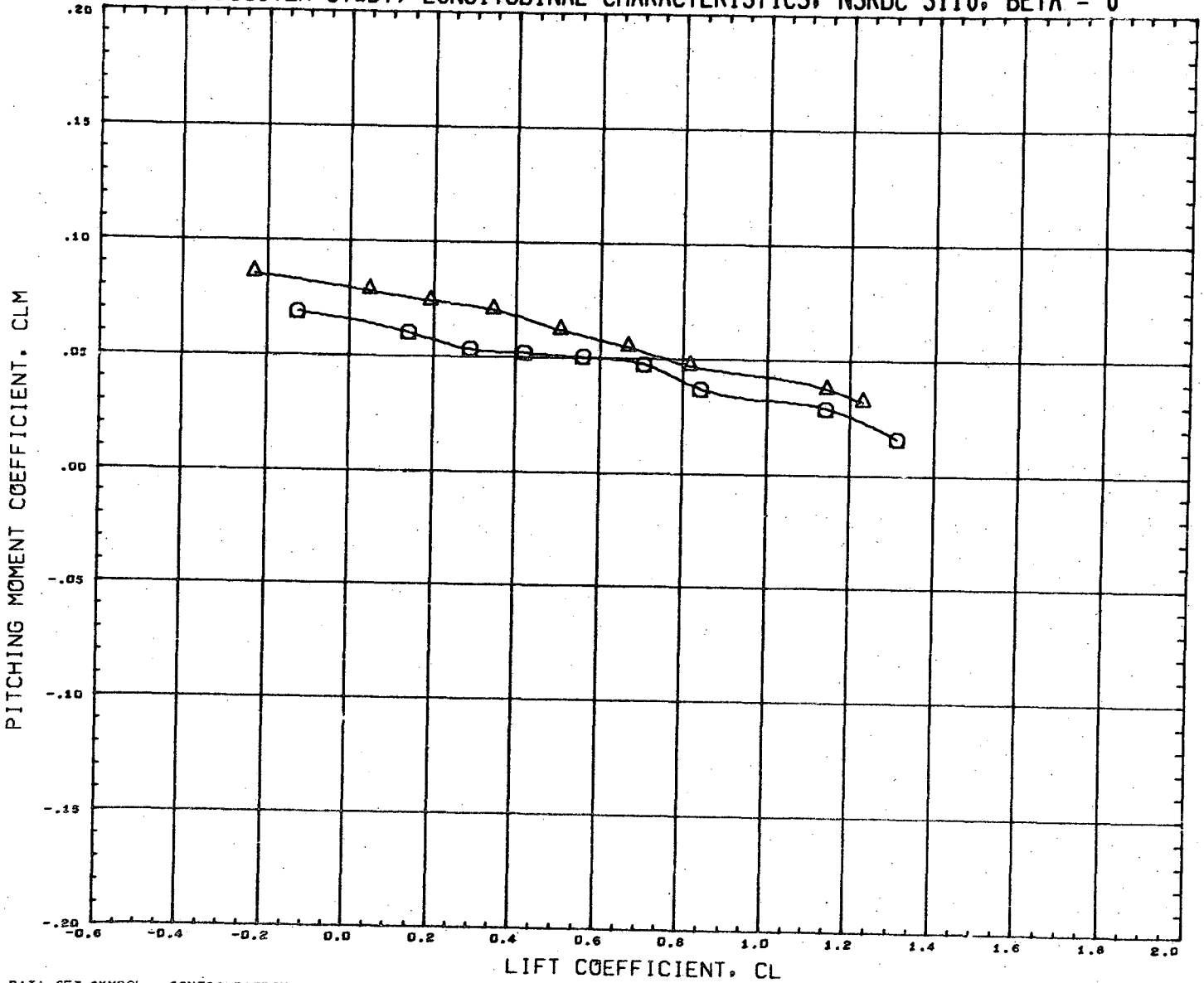
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2021)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

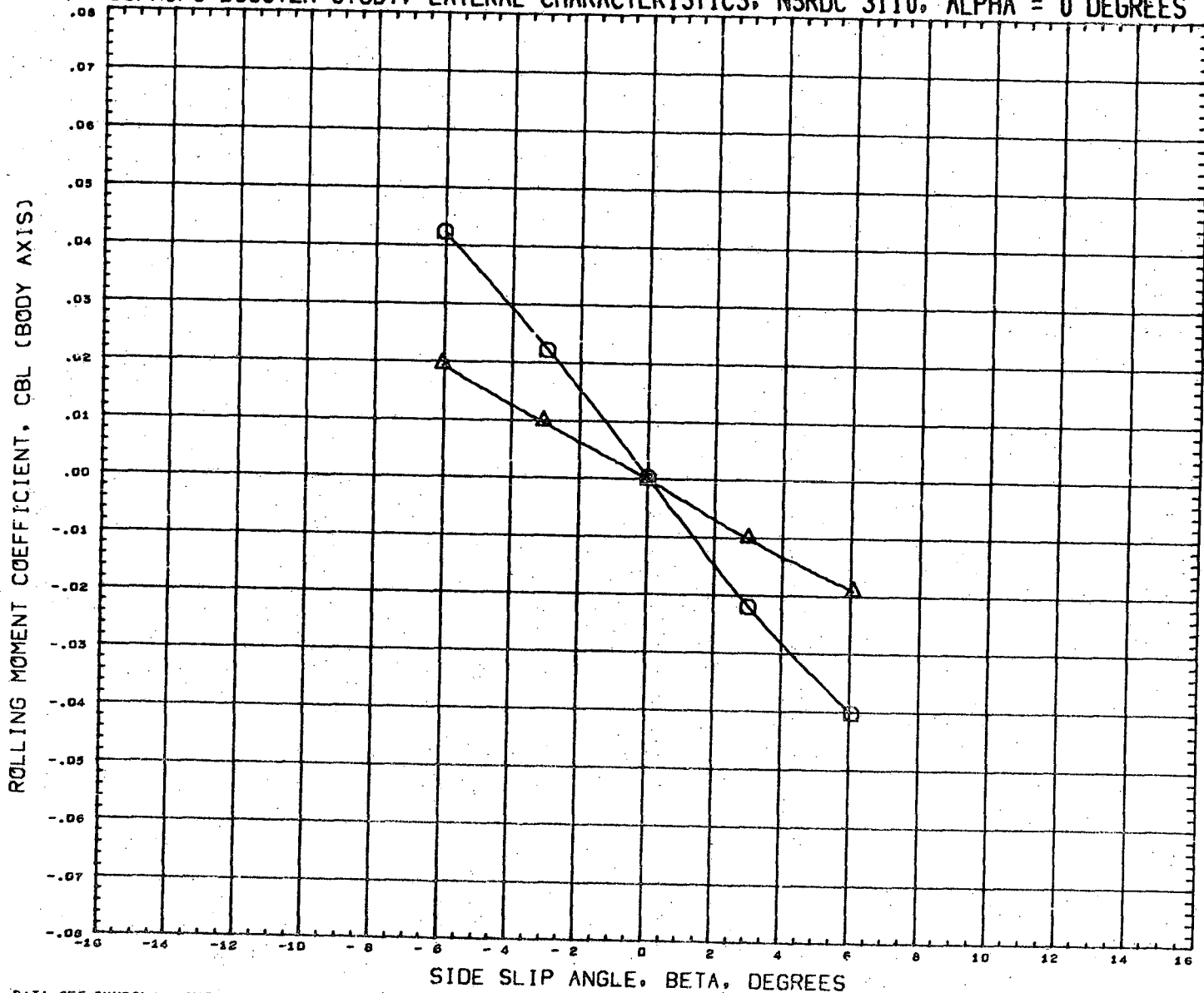
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2021)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.379

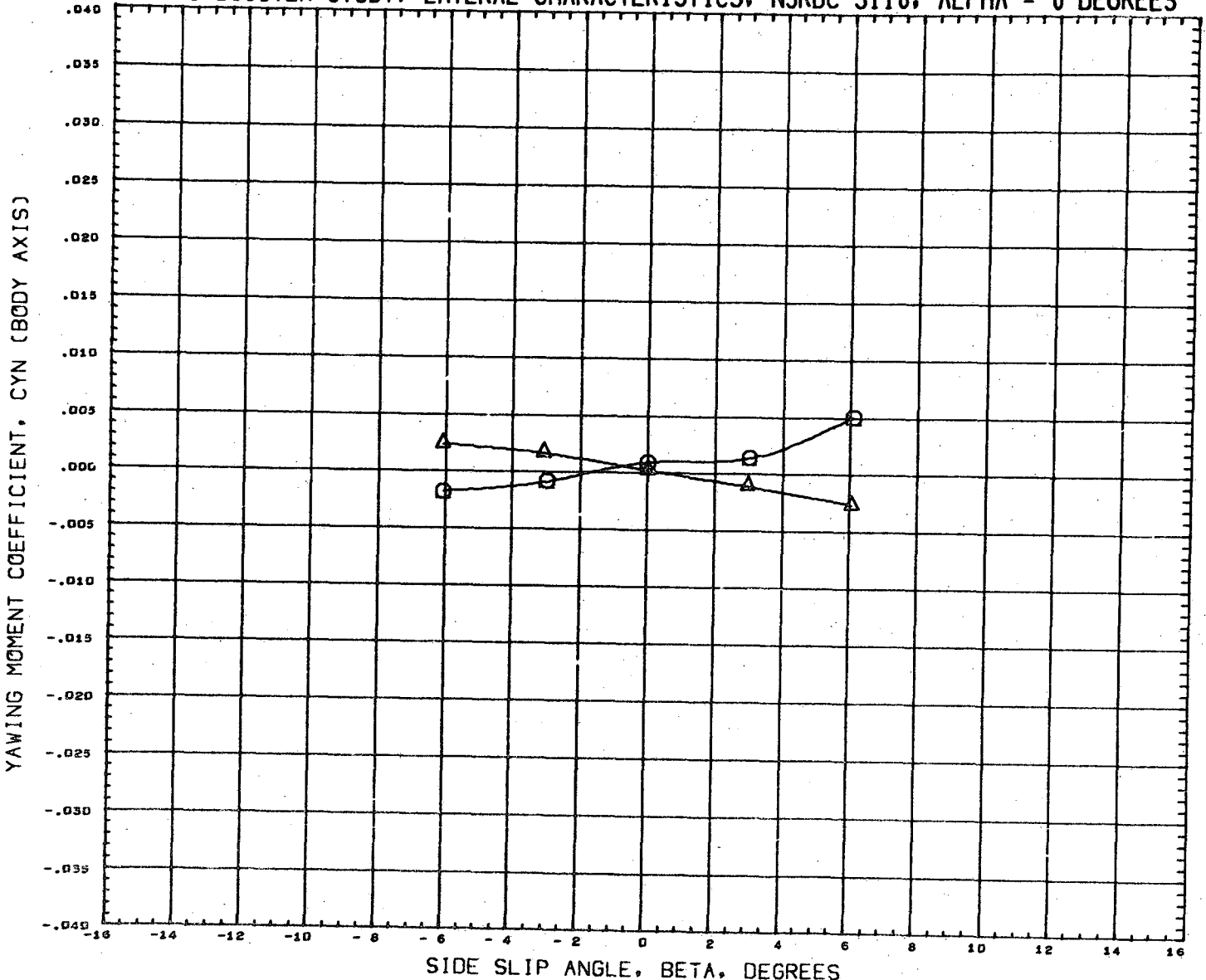
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2006)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2022)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

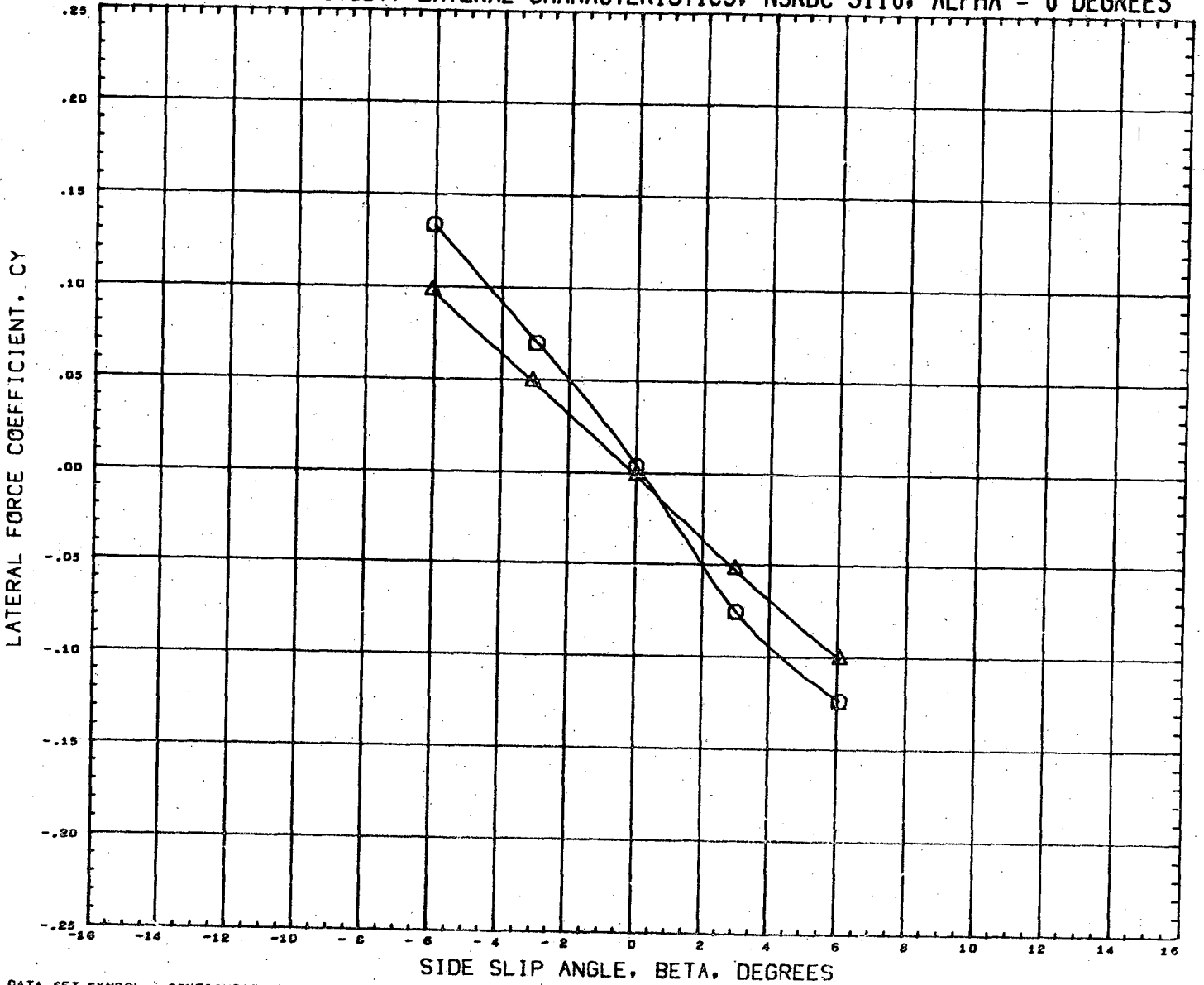
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2006)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2022)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2006) Q
(RN2022) A

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

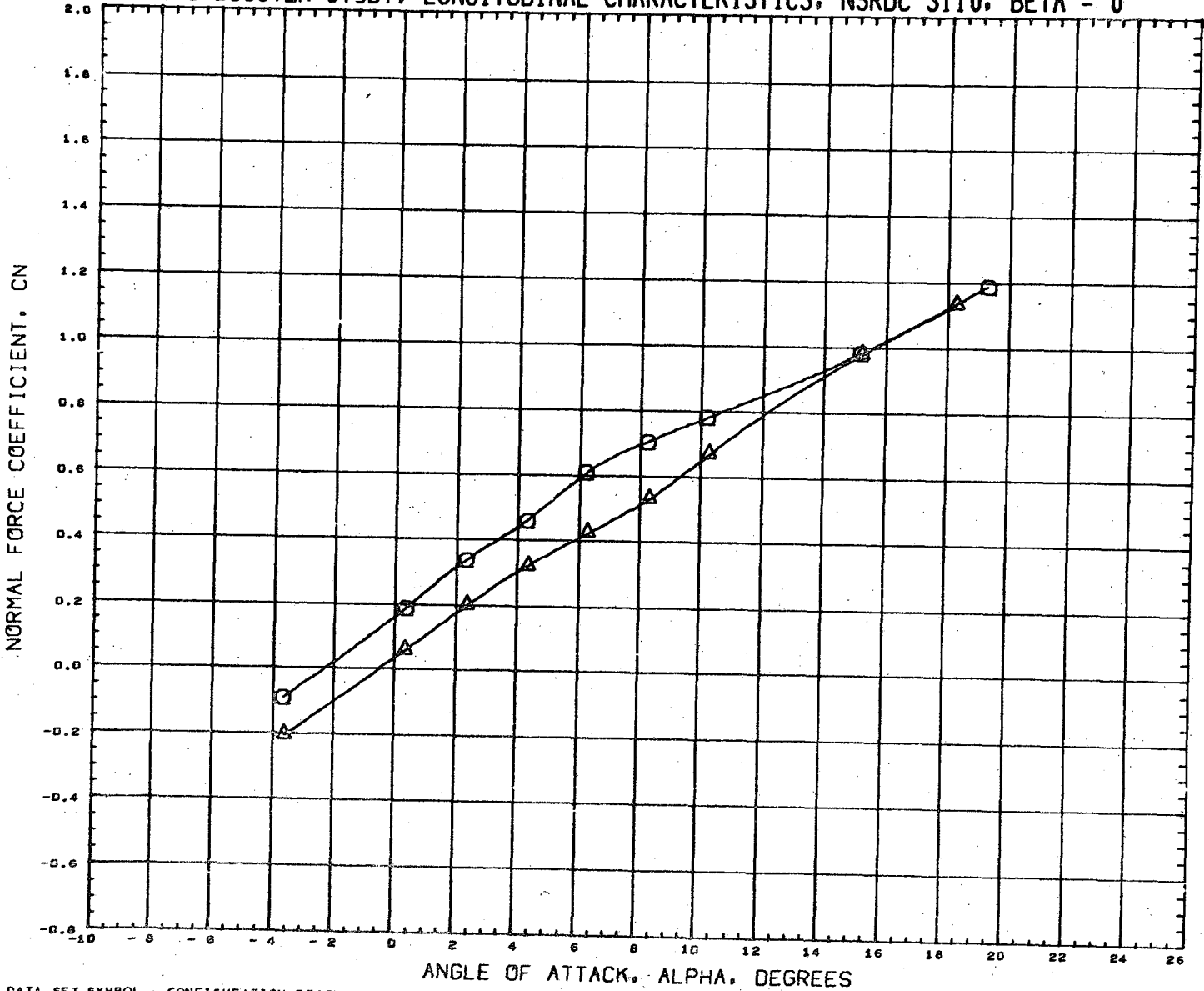
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

HACH 0.380

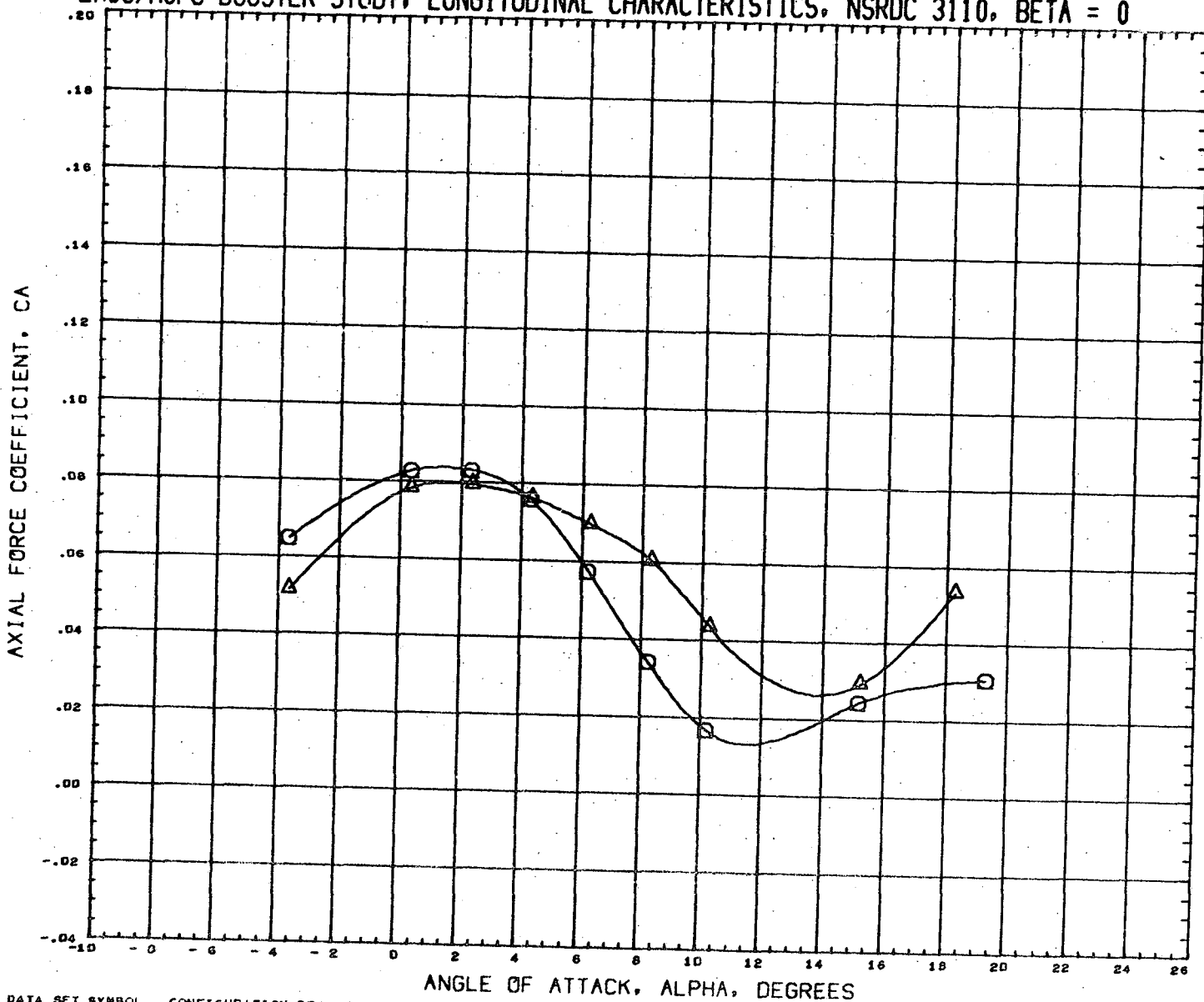
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2013) \circ
(RN2029) \triangle

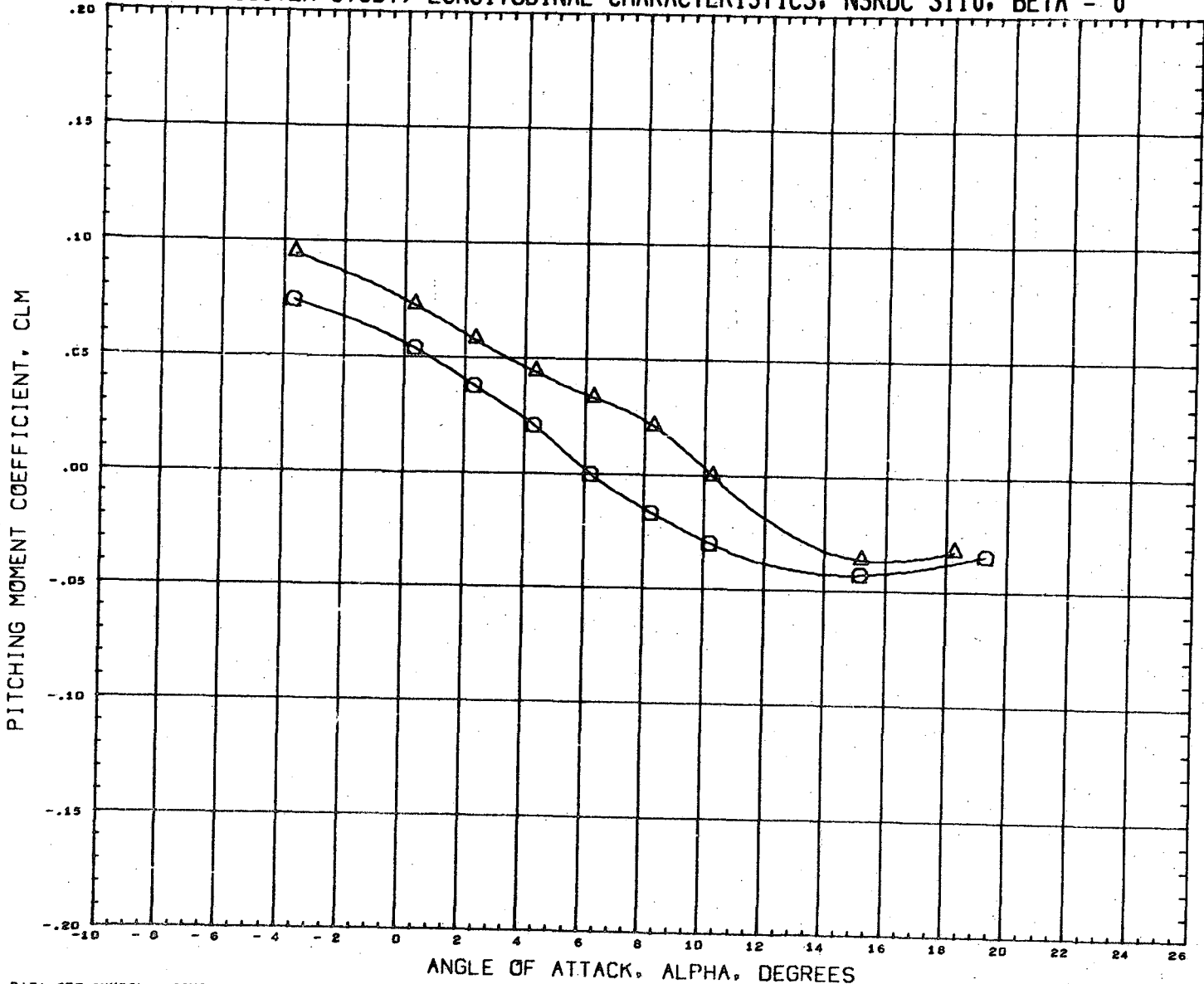
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGFOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.382

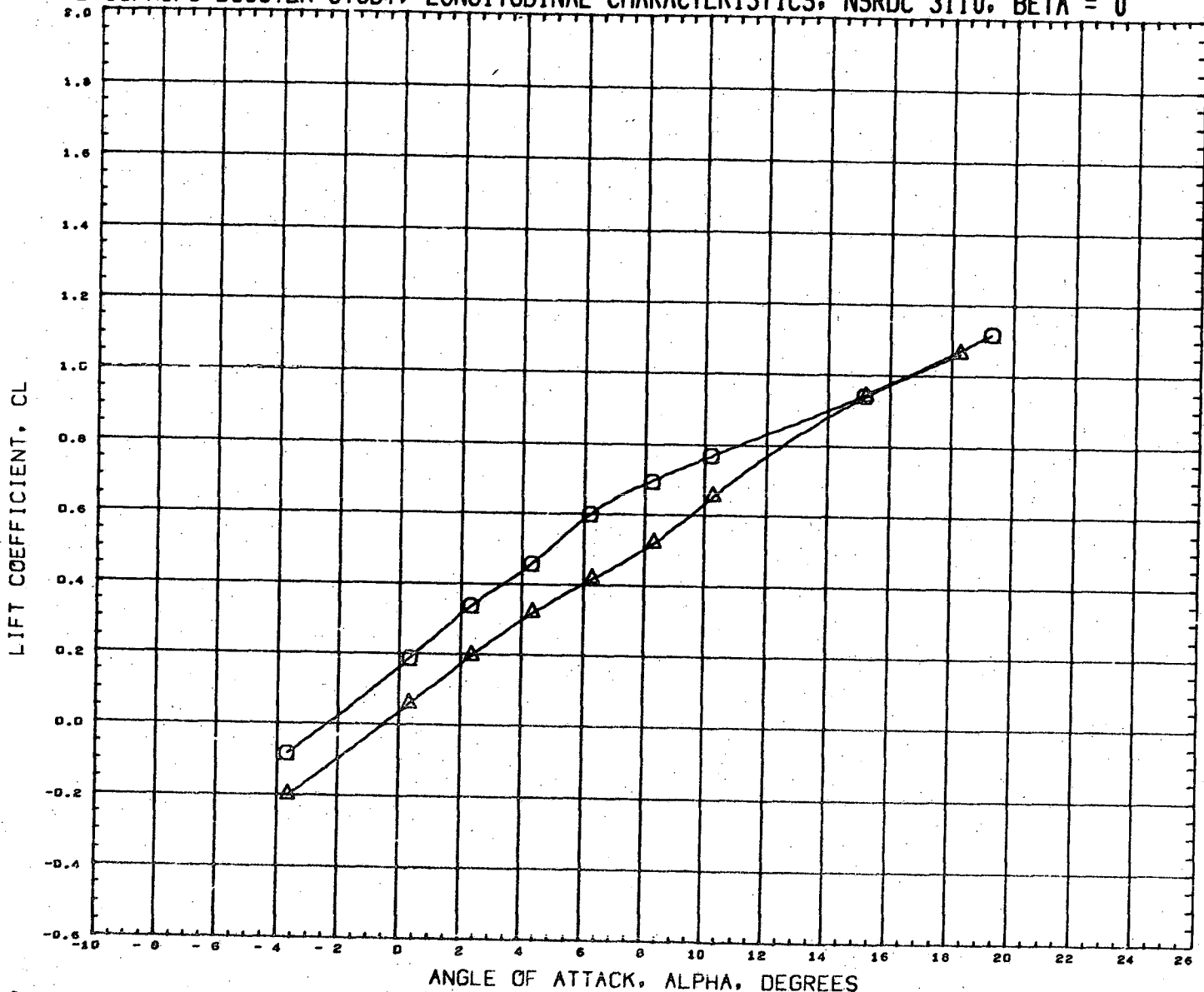
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.382

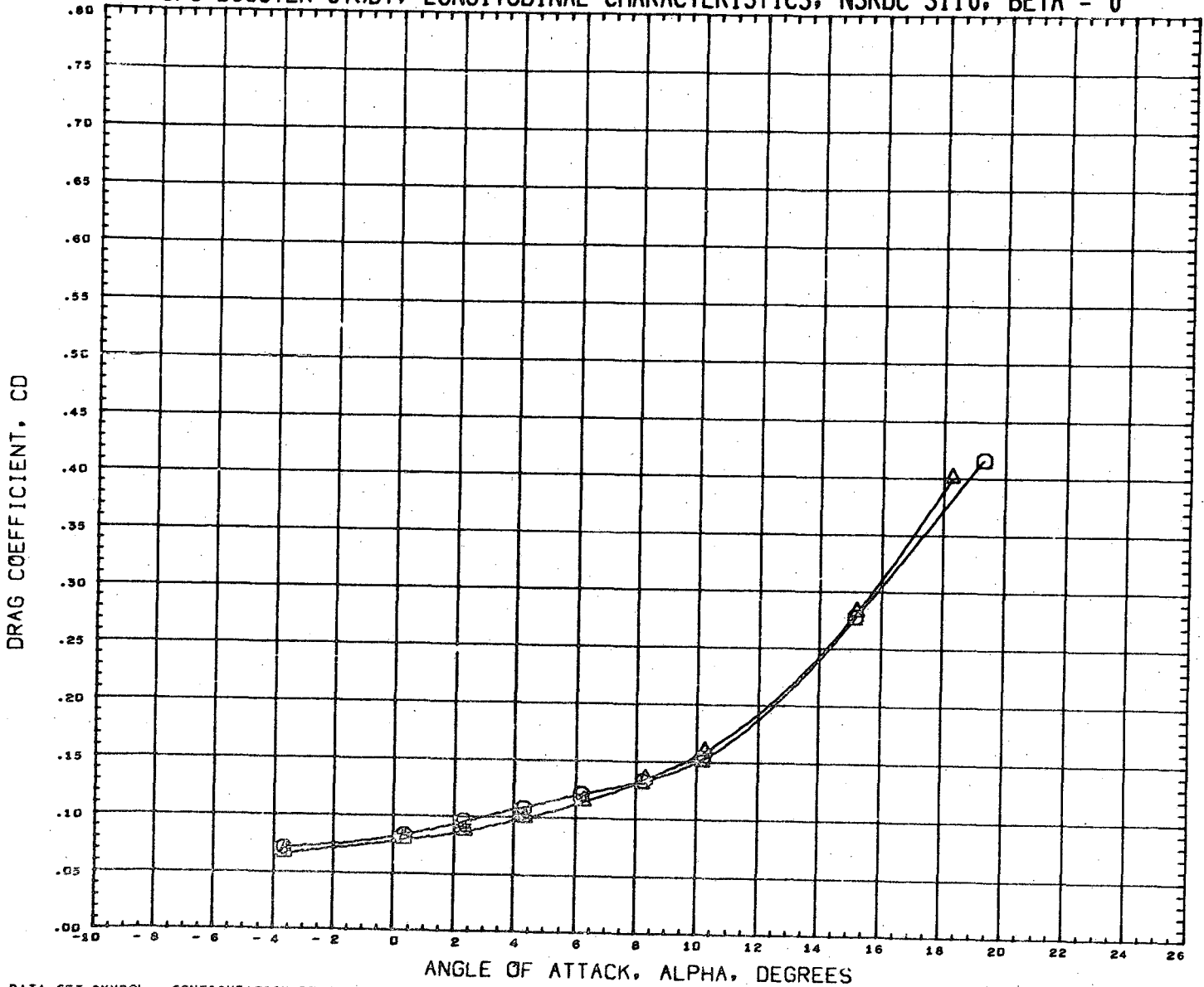
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.302

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2013) □
(RN2029) △

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

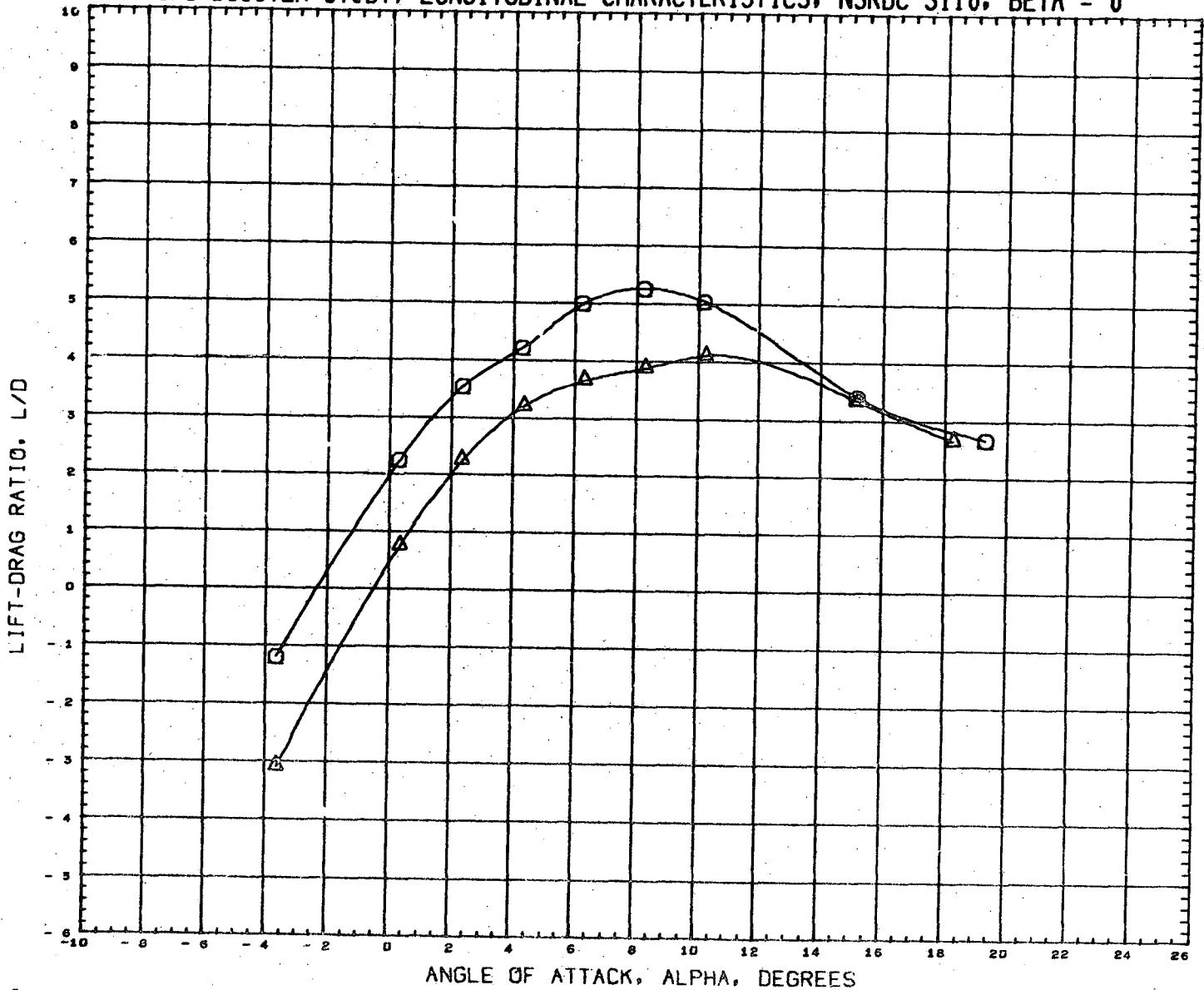
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.582

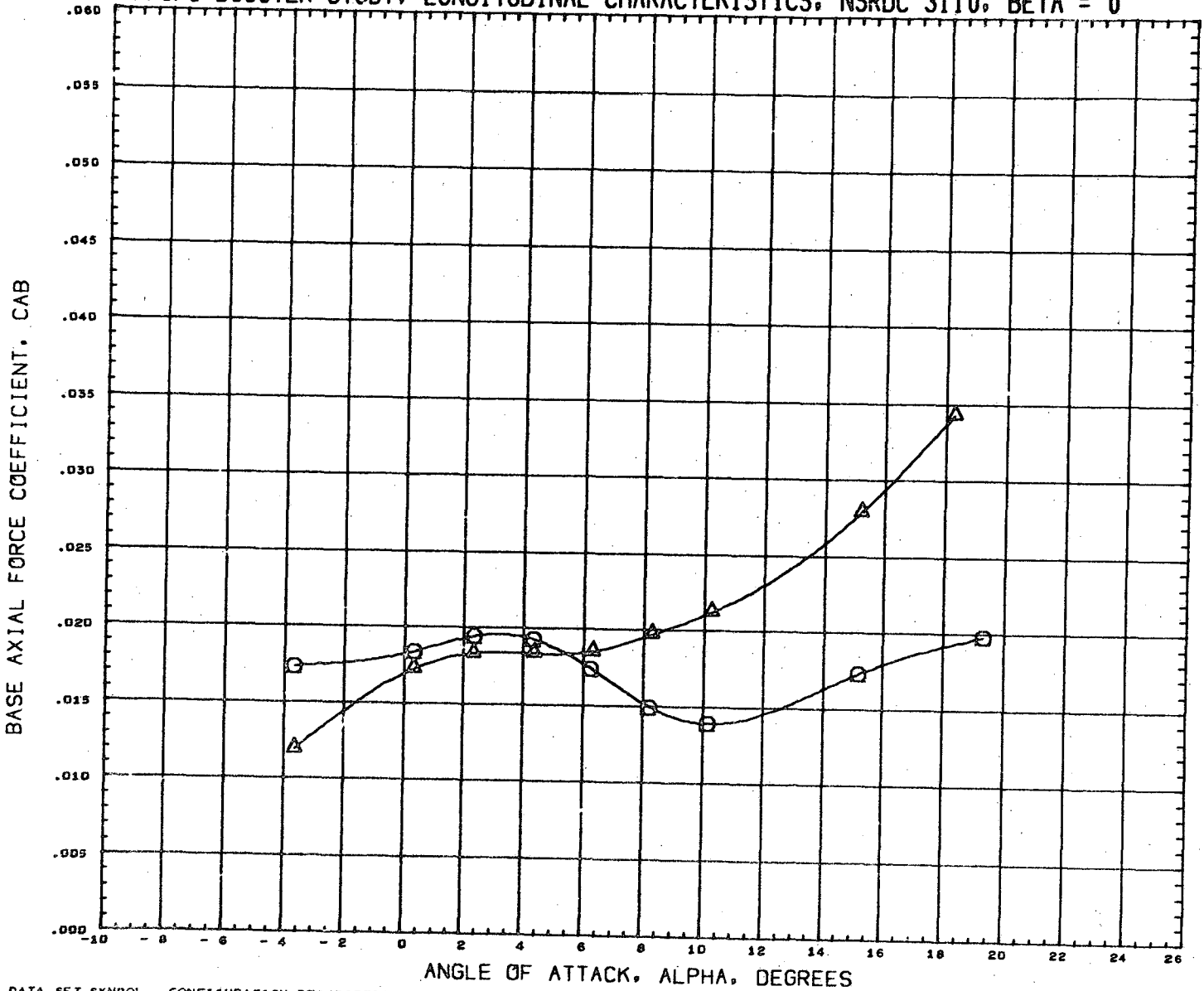
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

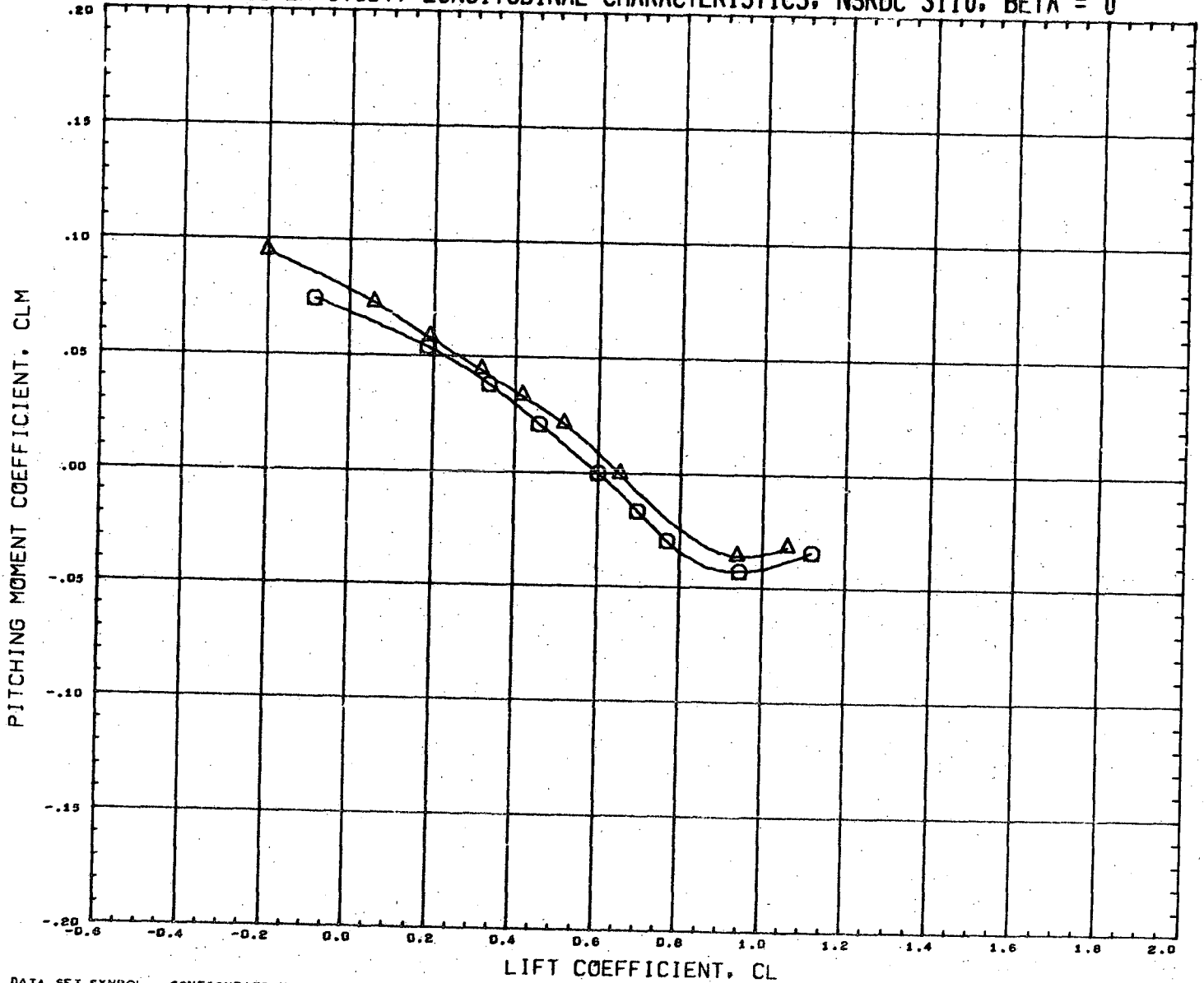
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2029)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.392

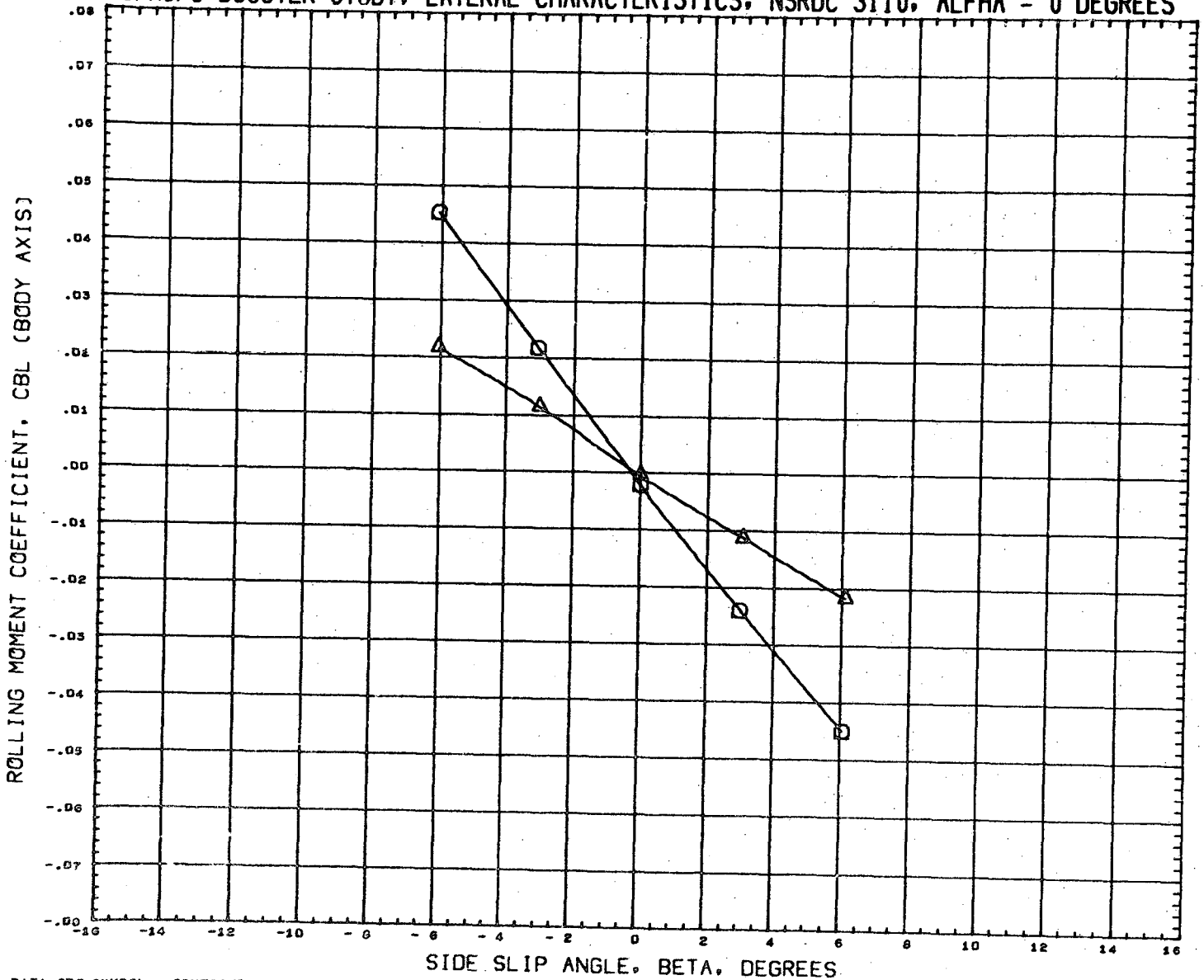
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2029)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.302

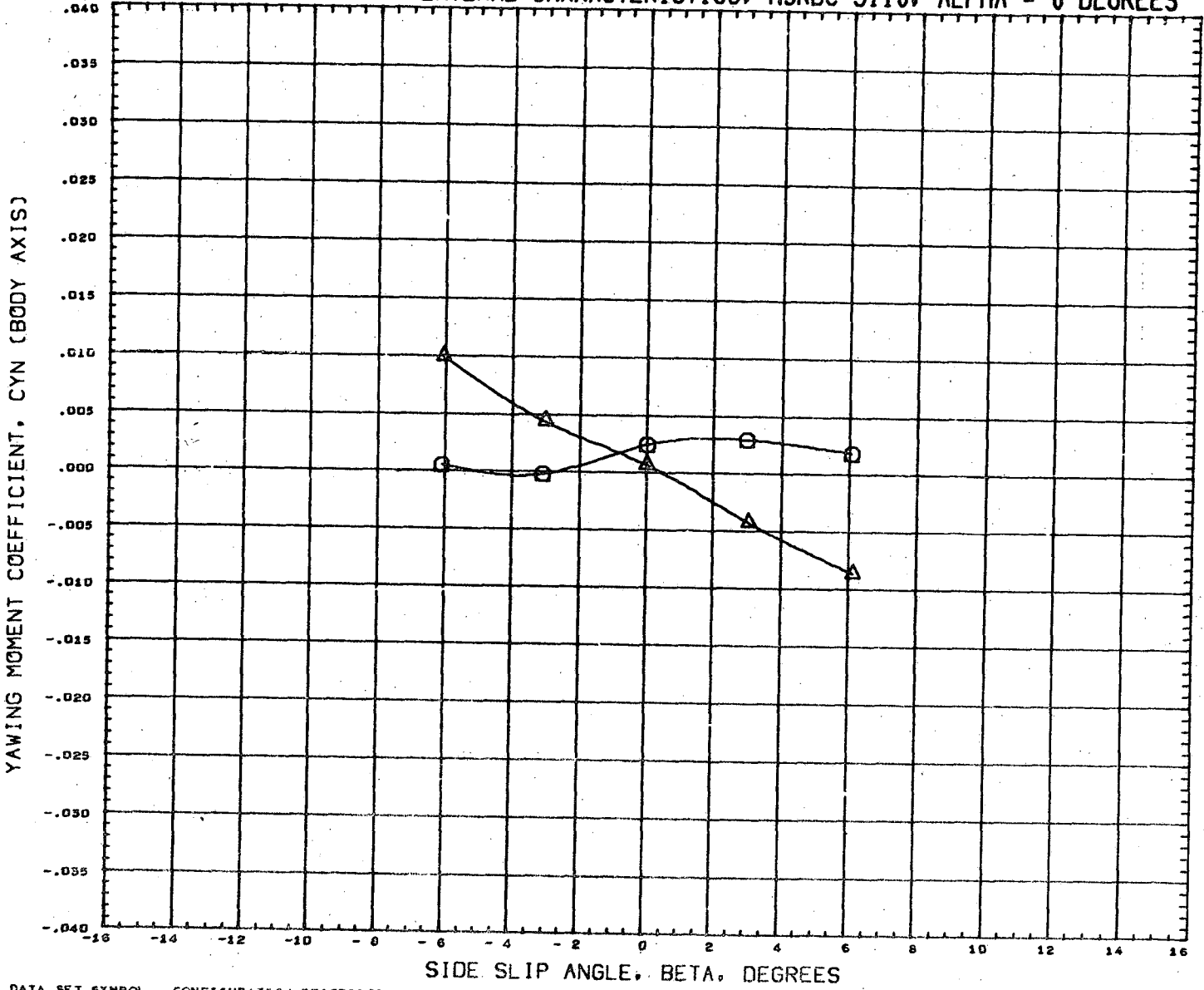
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2014)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2030)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.301

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2014) 
(RN2030) 

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

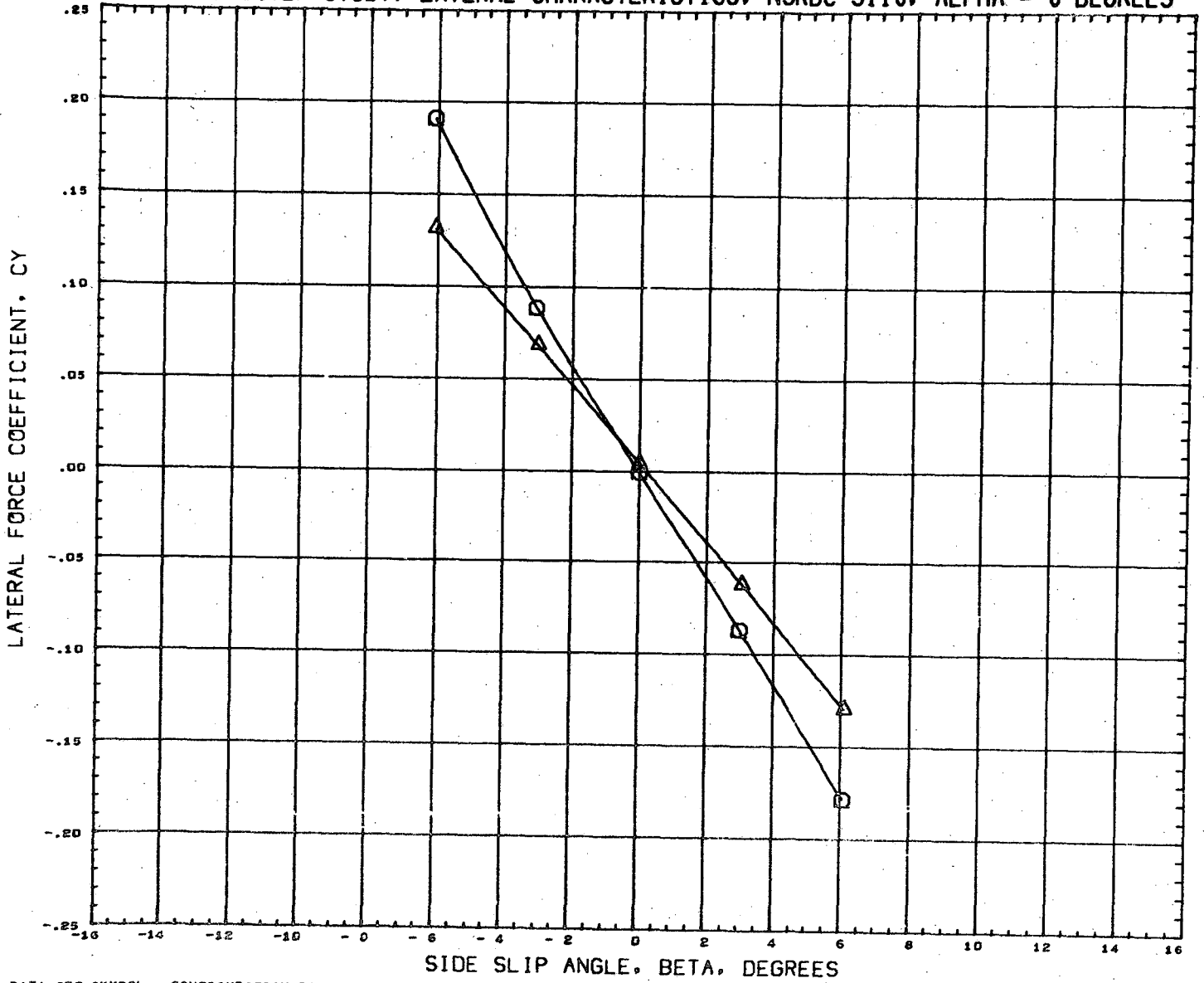
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000



REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2014) 
(RN2030) 

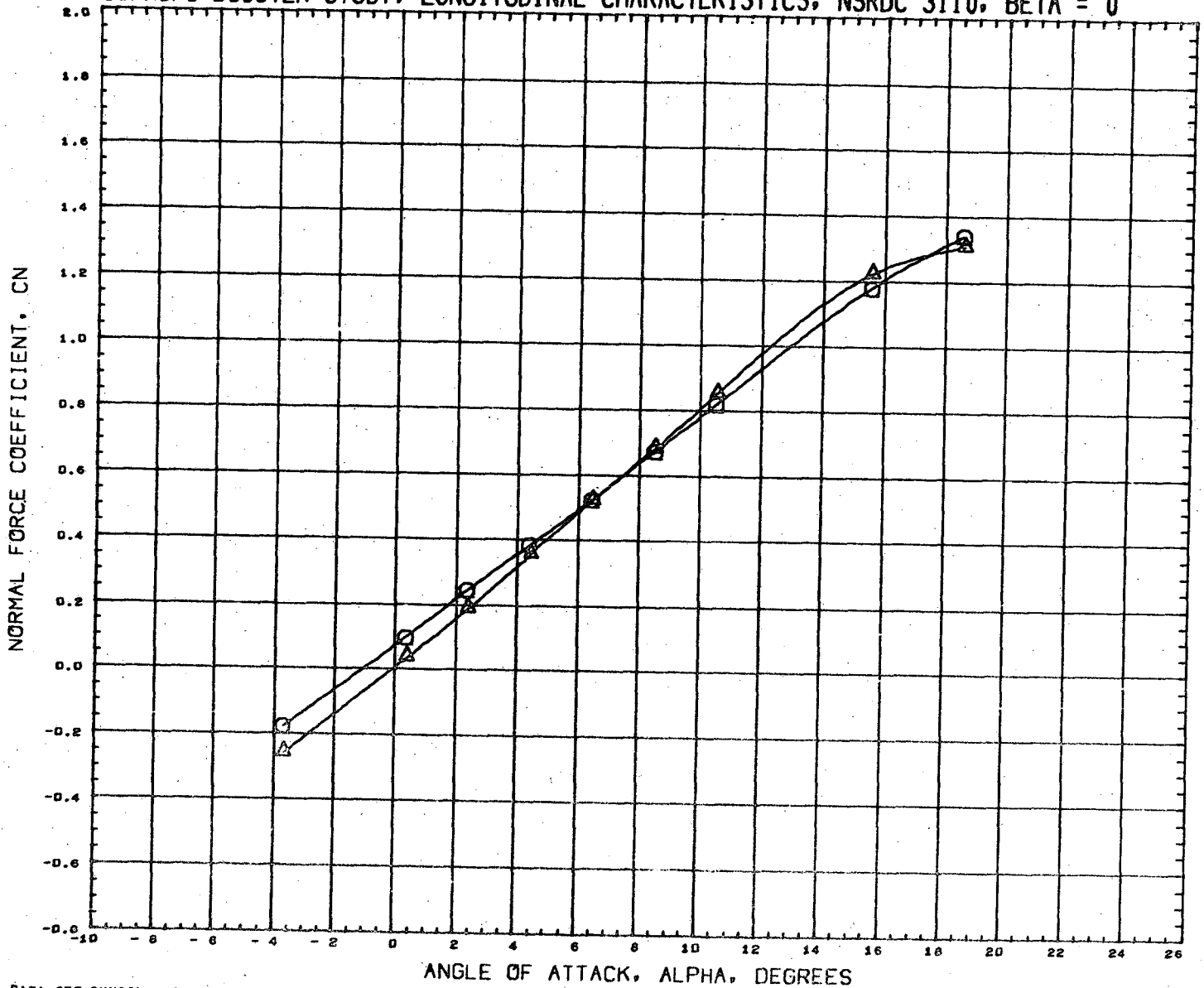
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

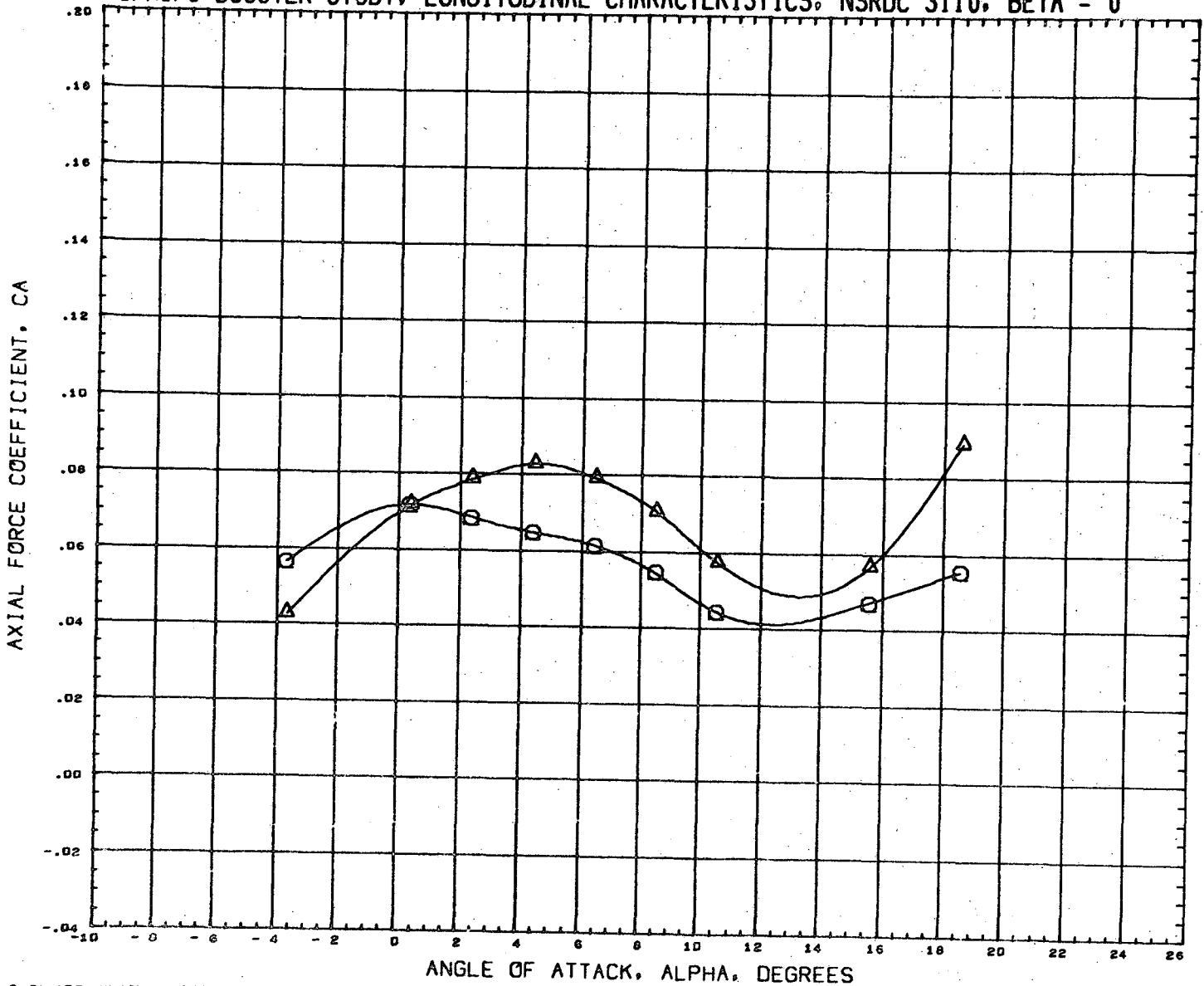
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2197)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2213)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.301

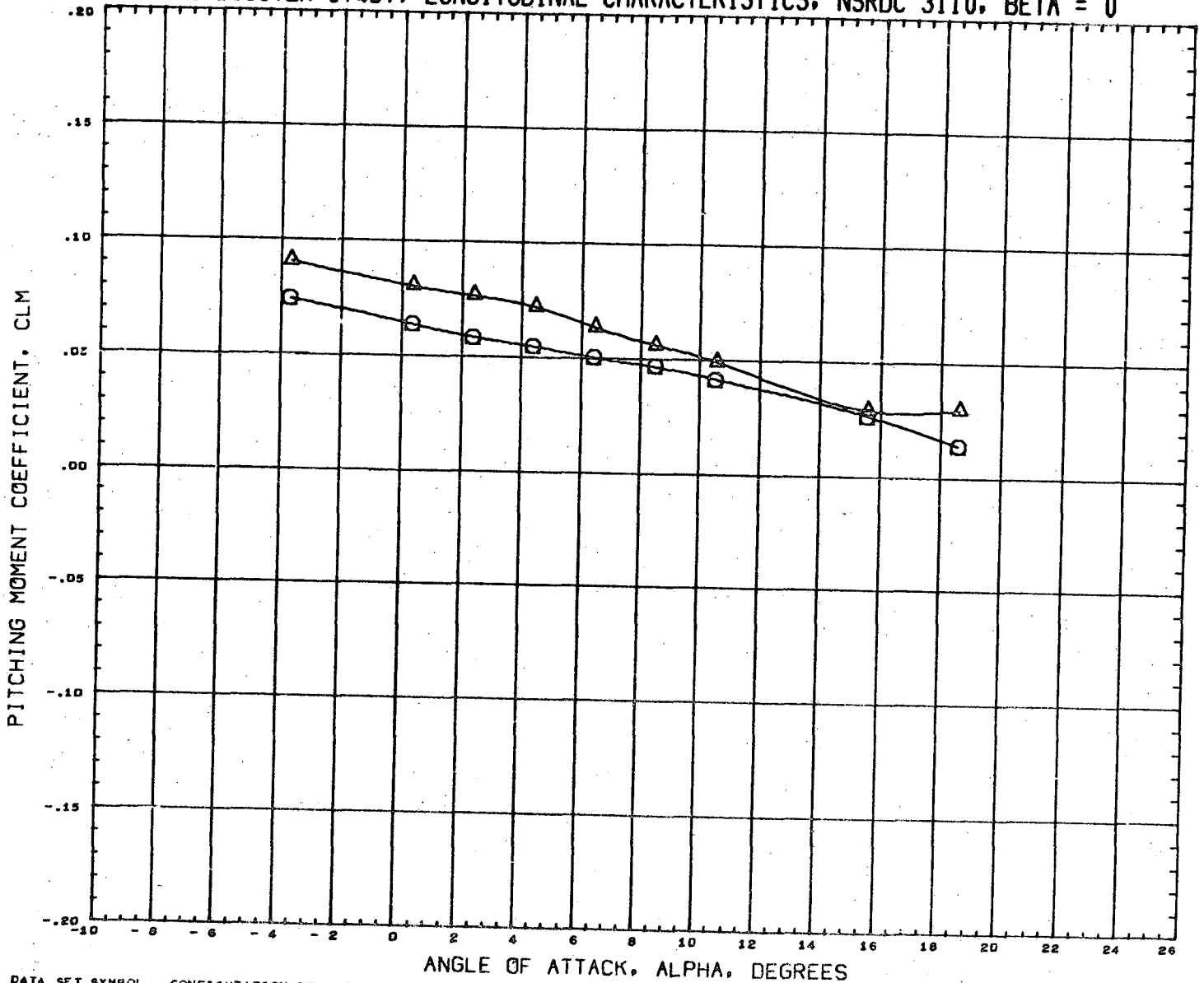
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION:	
(RN2197)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2213)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH D.381

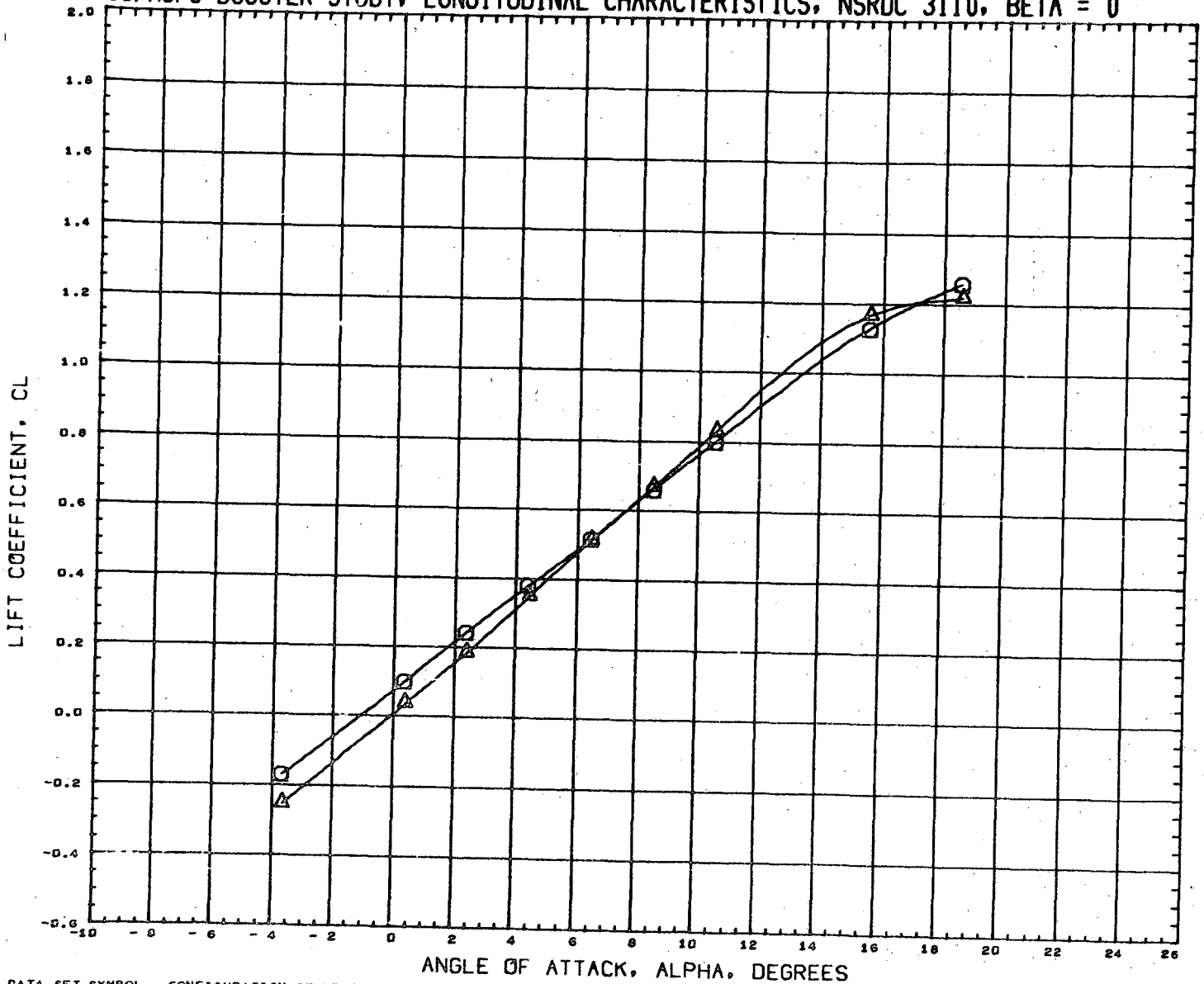
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2197)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2213)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XNRP 31.1400 INCHES
						YNRP 0.0000 INCHES
						ZNRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2197) □
 (RN2219) △

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

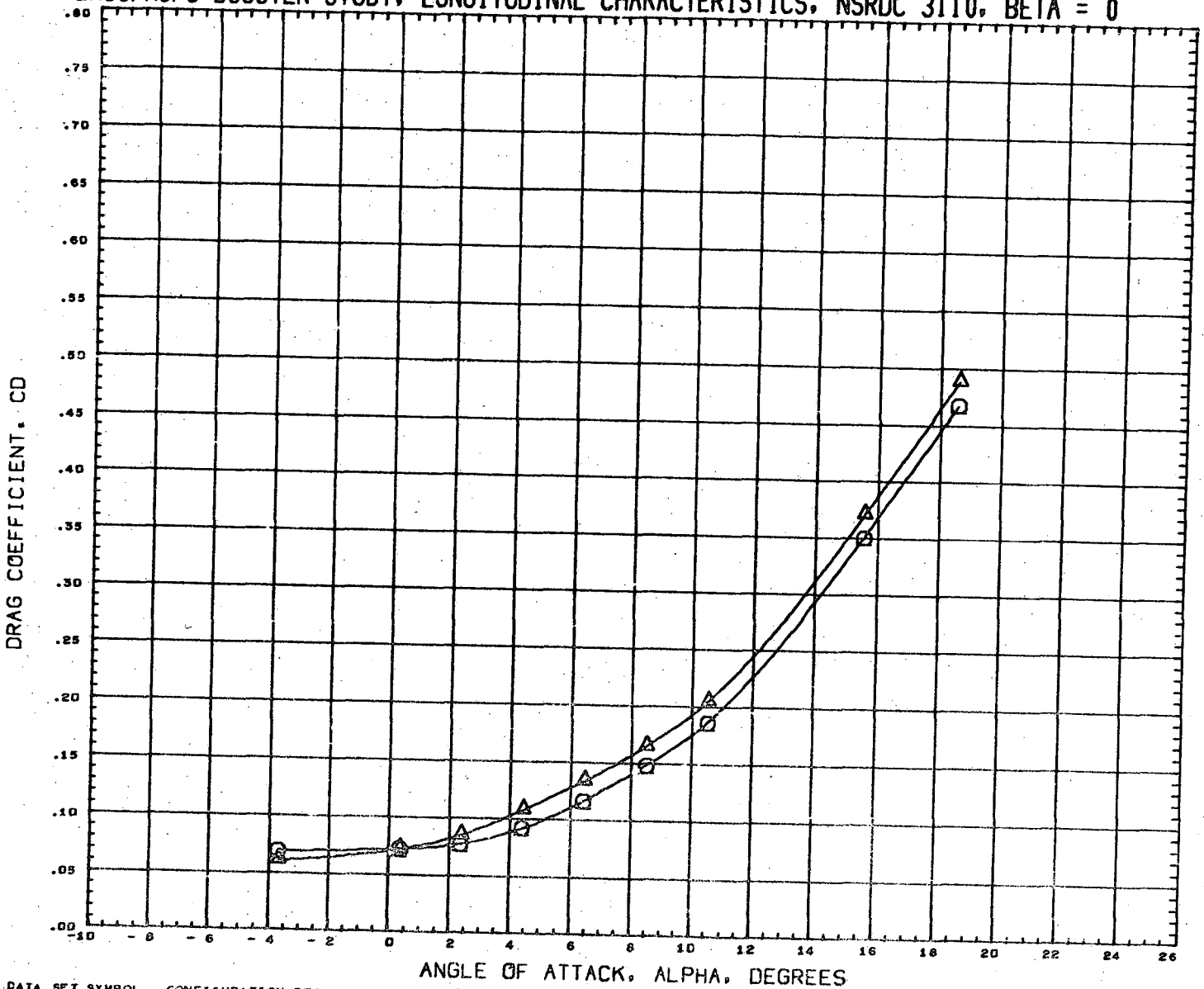
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SG. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2197)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2215)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



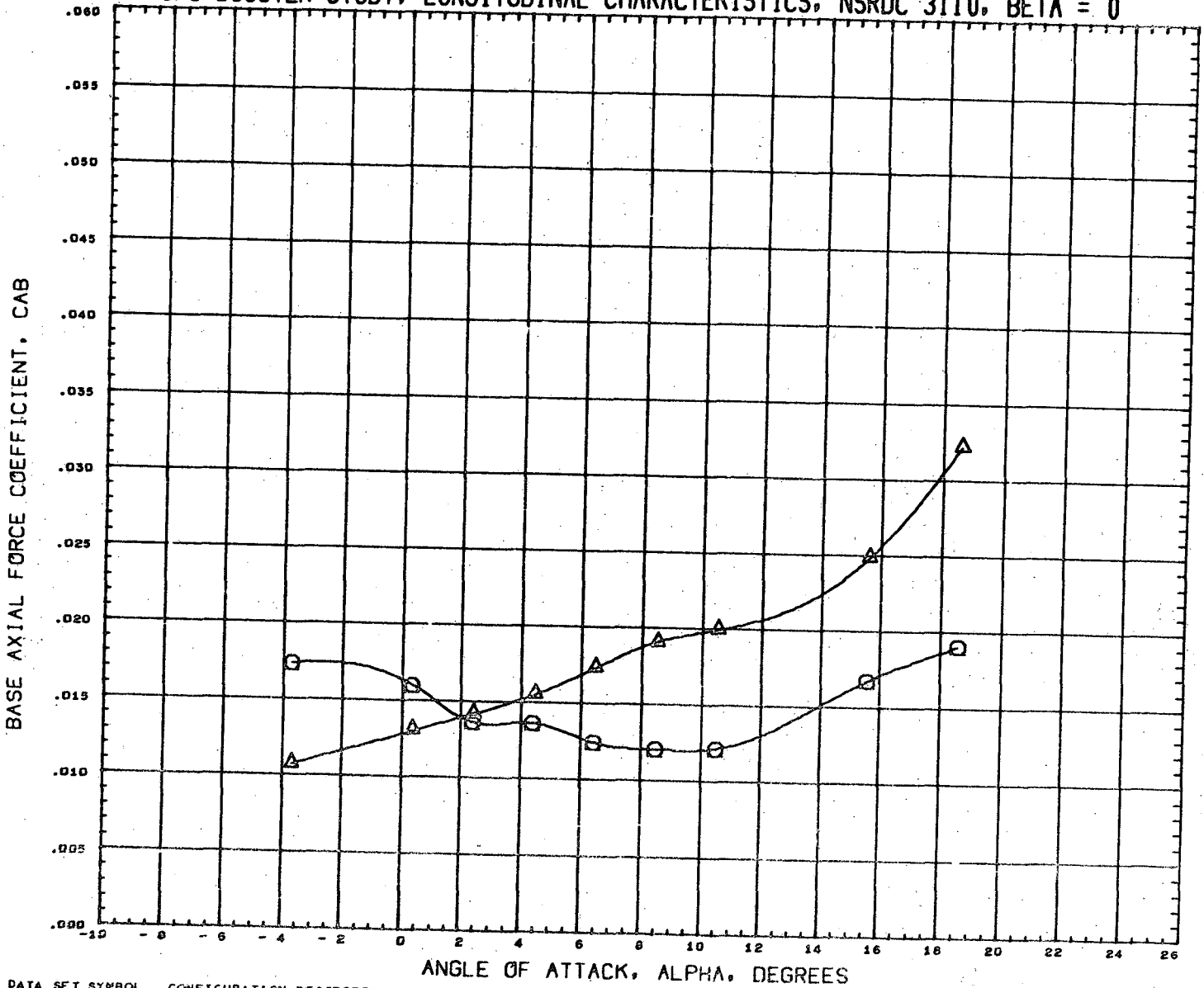
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2197)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2213)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.381

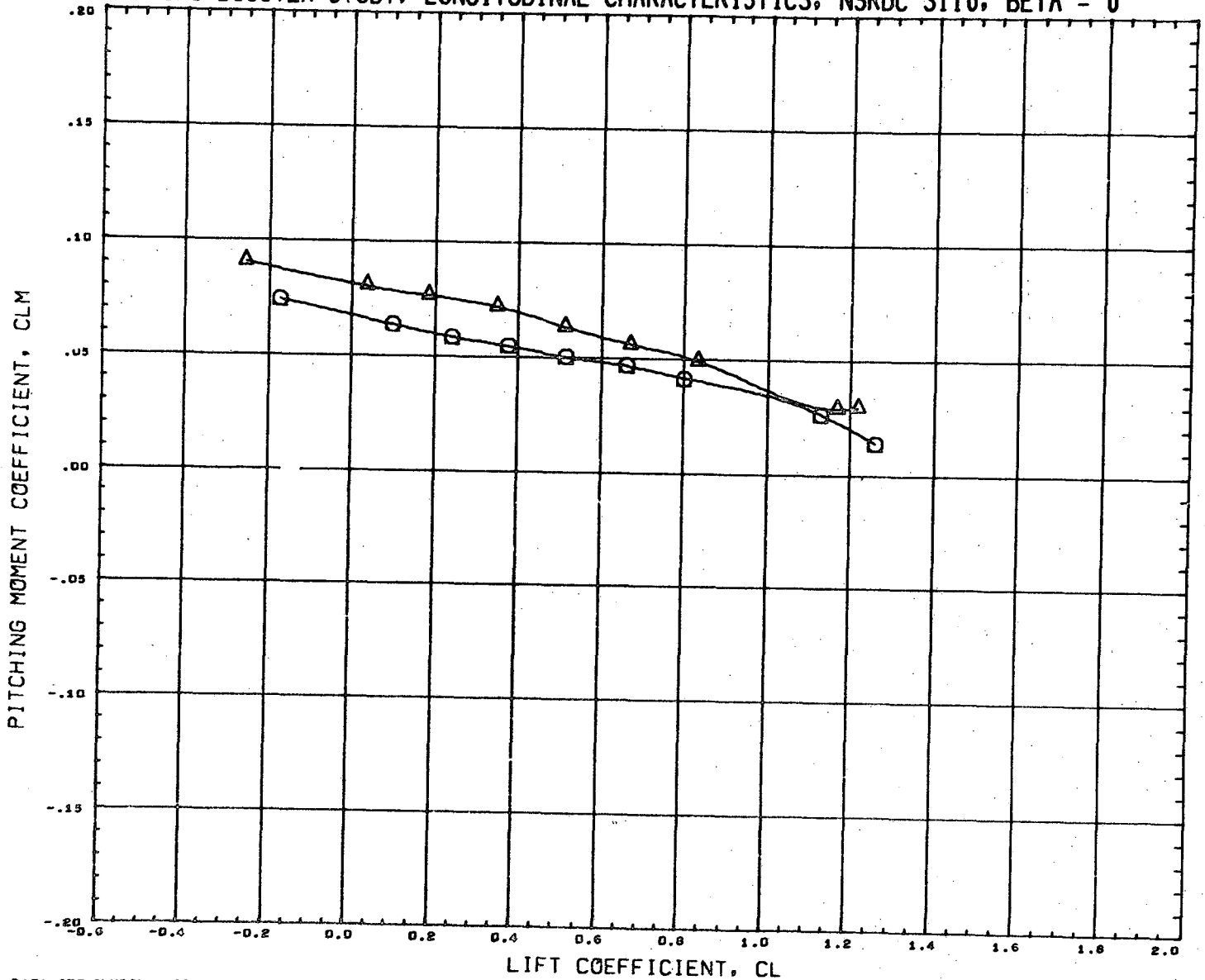
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2197)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2213)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2850 INCHES
						SCALE 1.5000 PERCENT

MACH 0.301

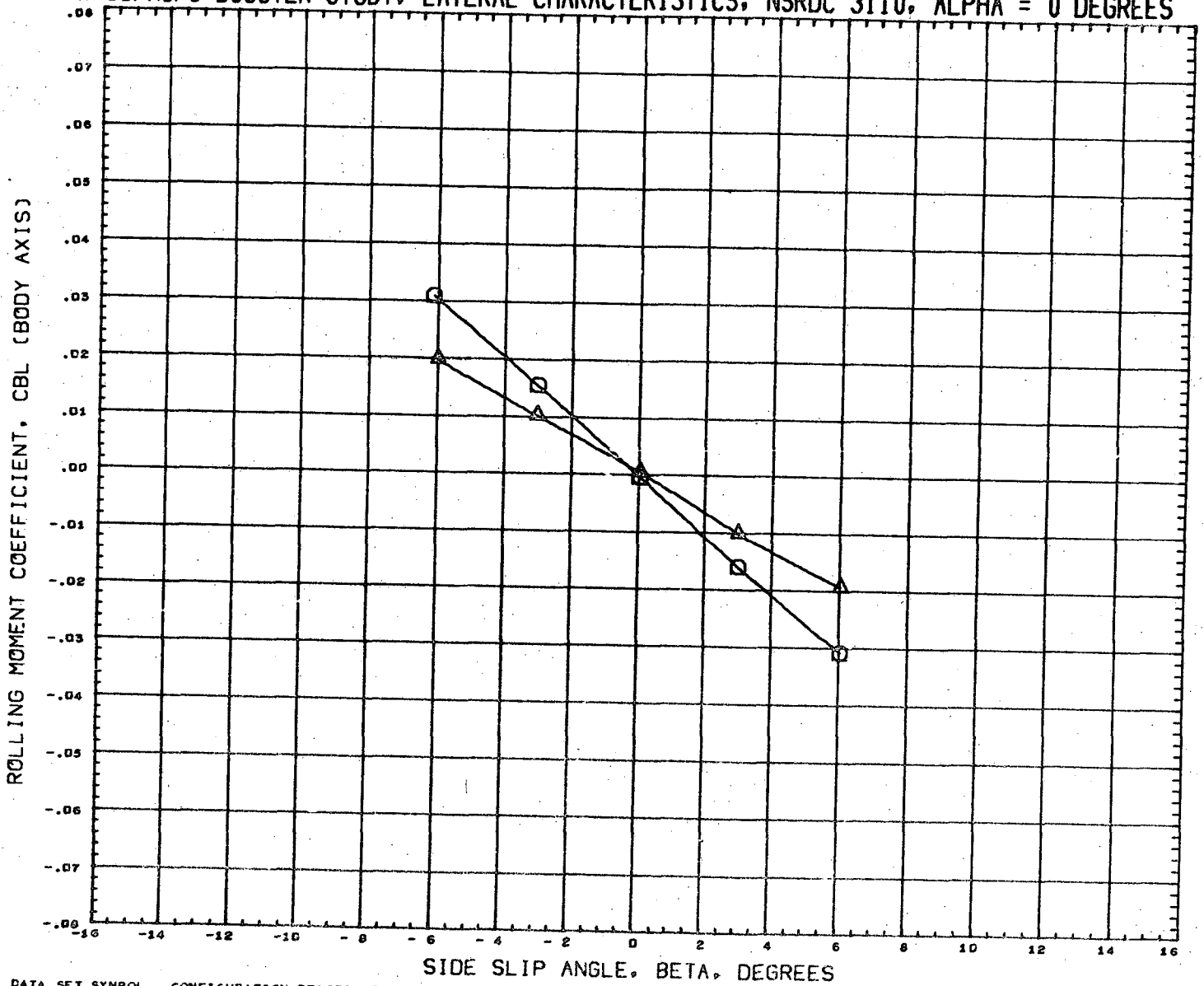
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2197)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2213)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

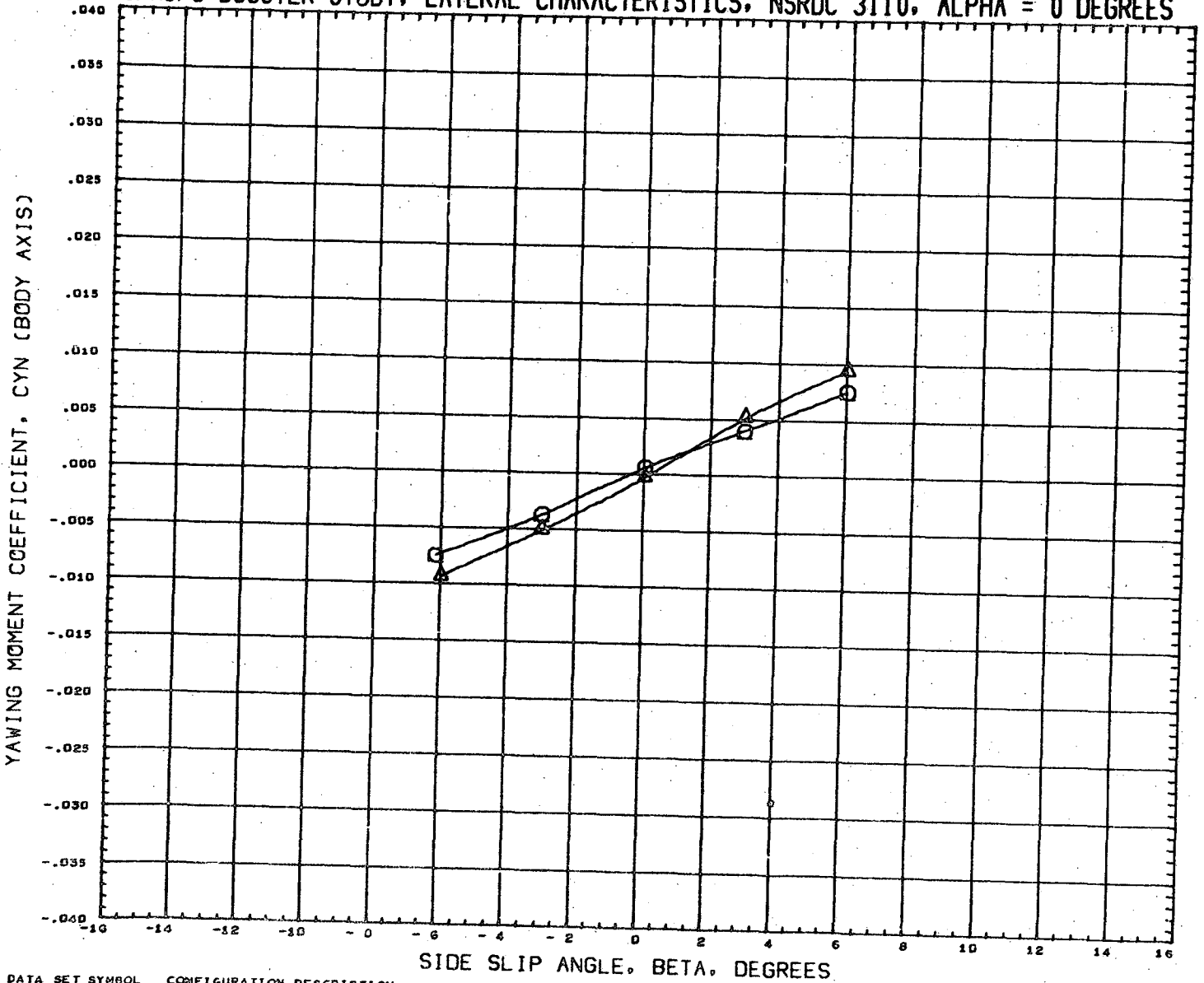
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2198)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2214)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

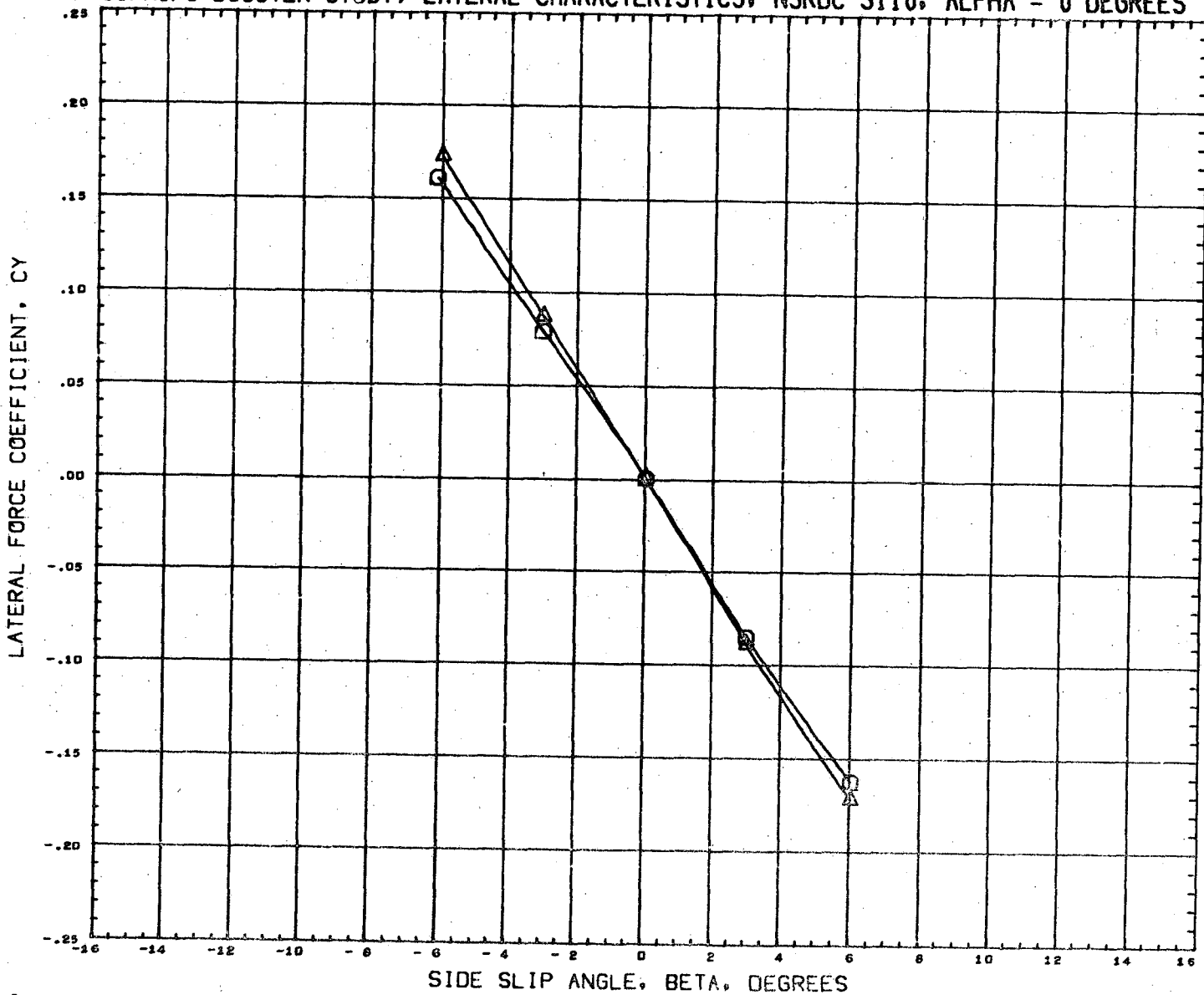
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2198)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2214)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

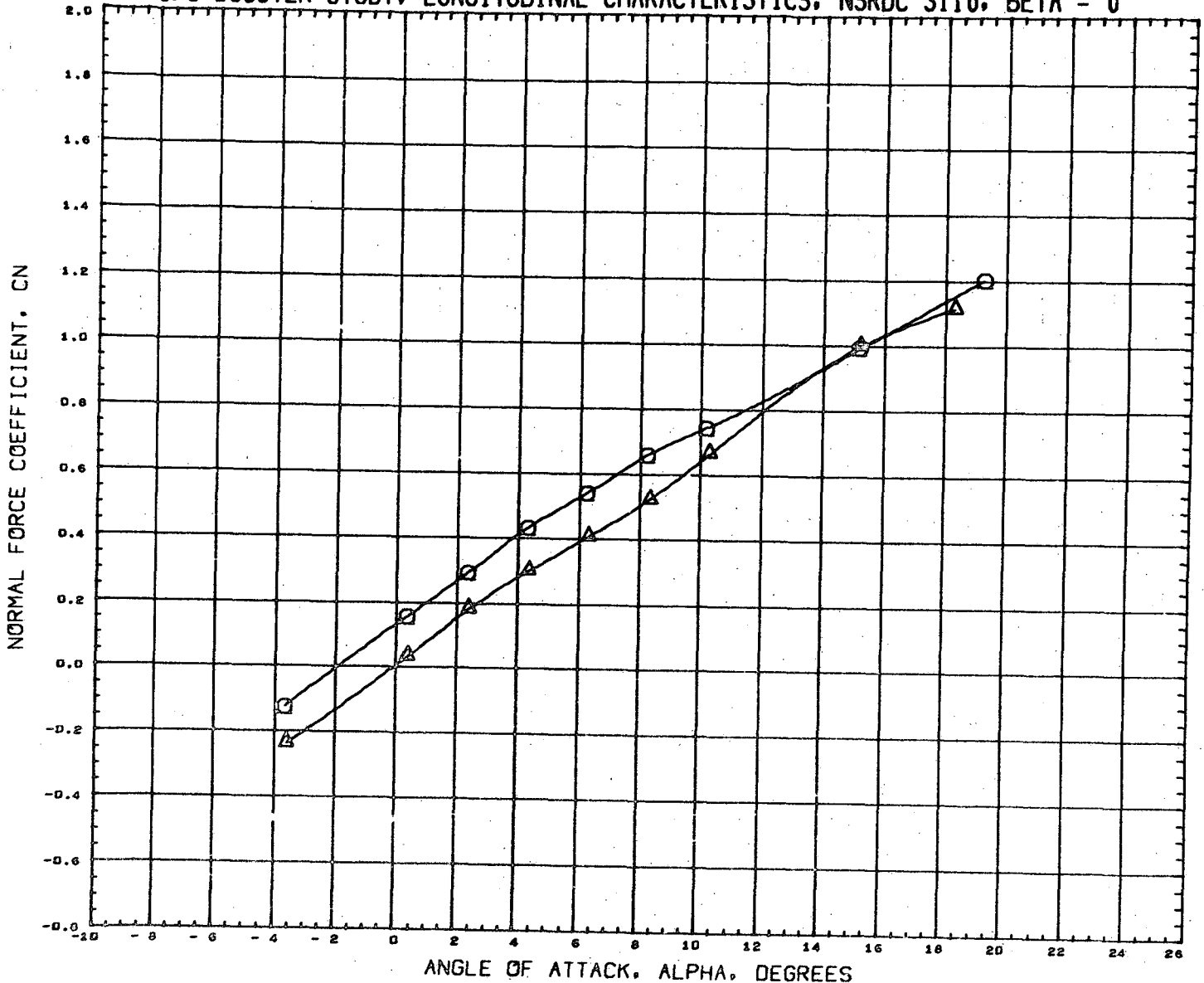
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2198)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2214)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.382

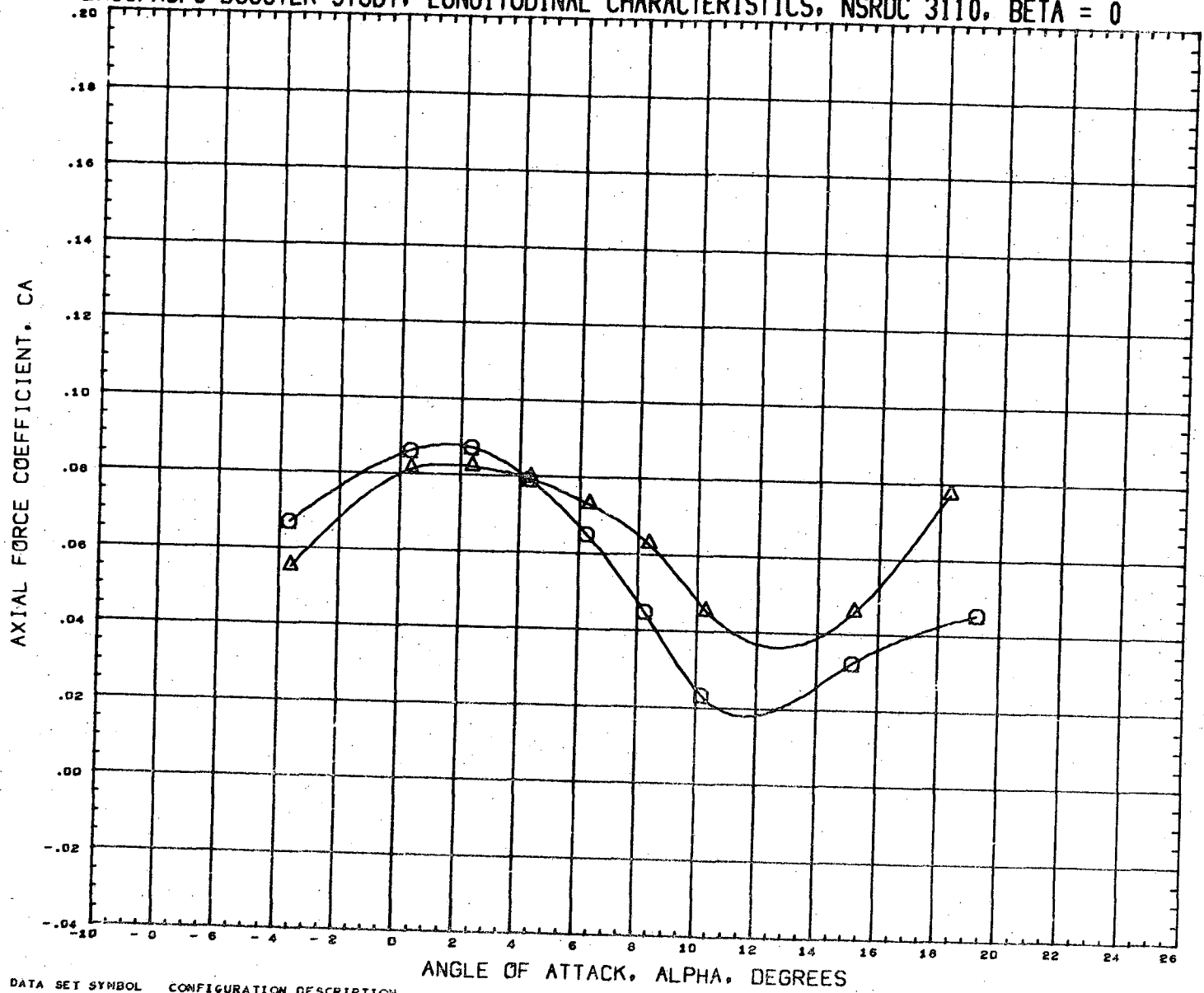
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2205)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2221)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.381

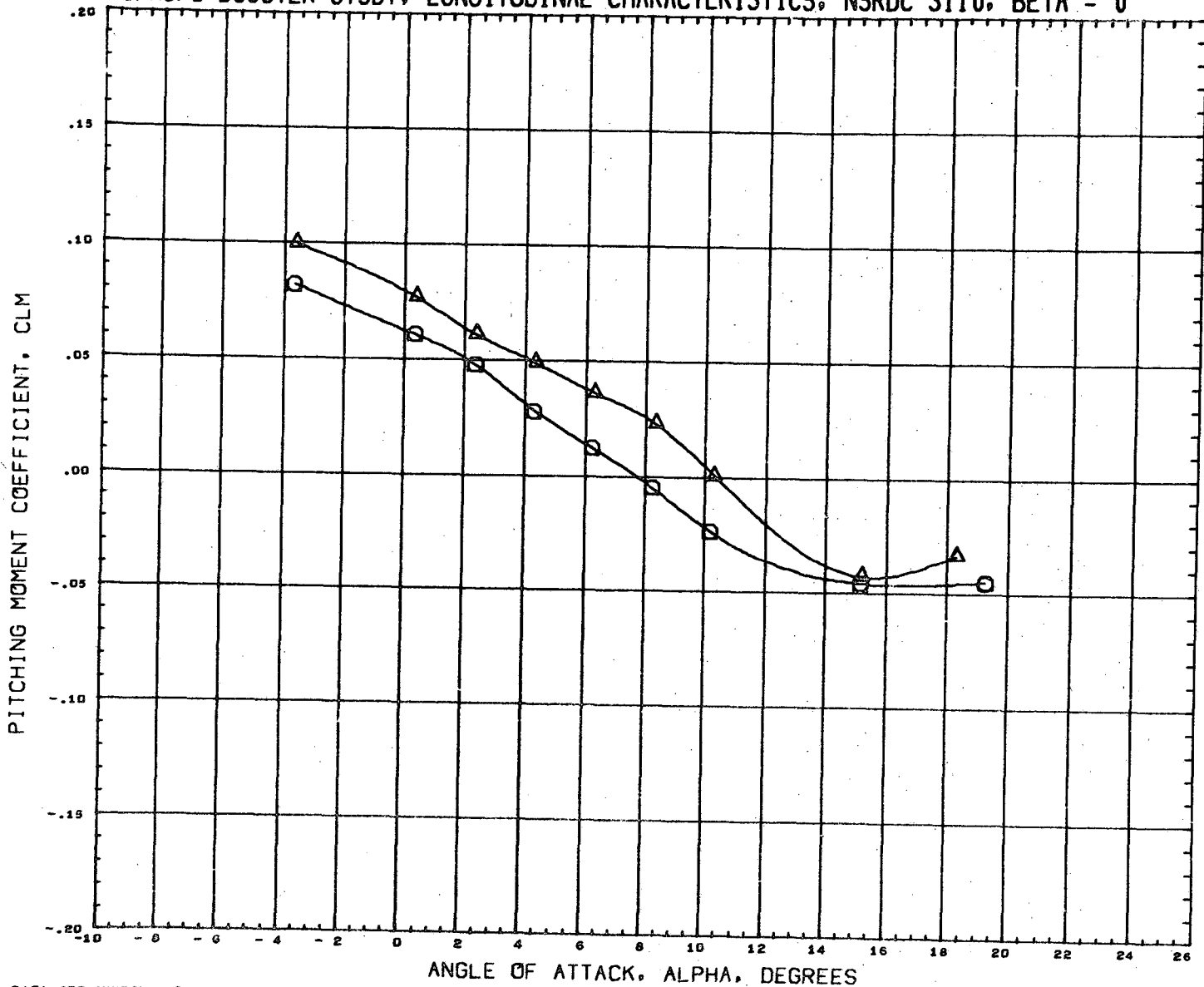
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RH2205)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2221)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

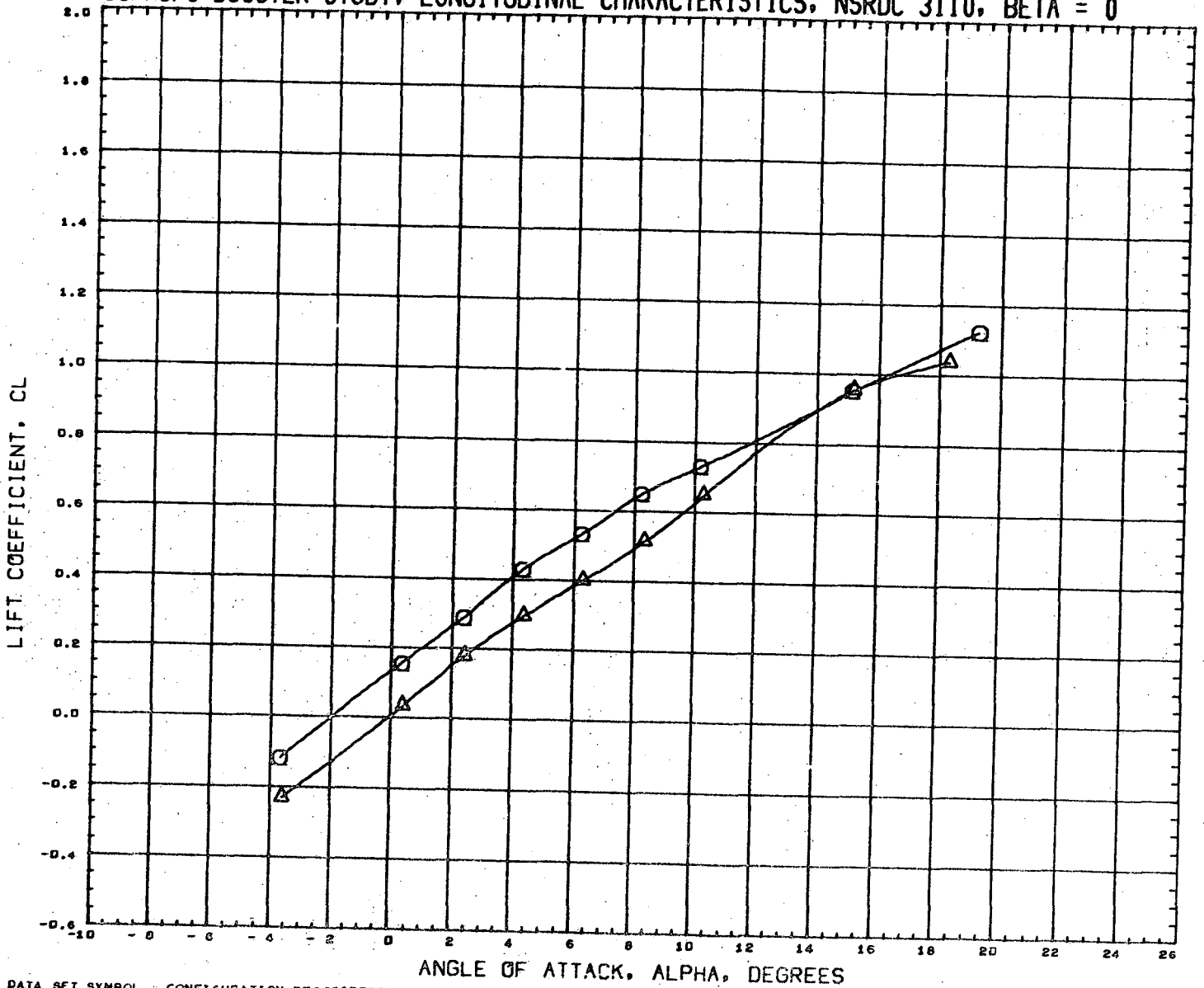
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2205)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2221)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.381

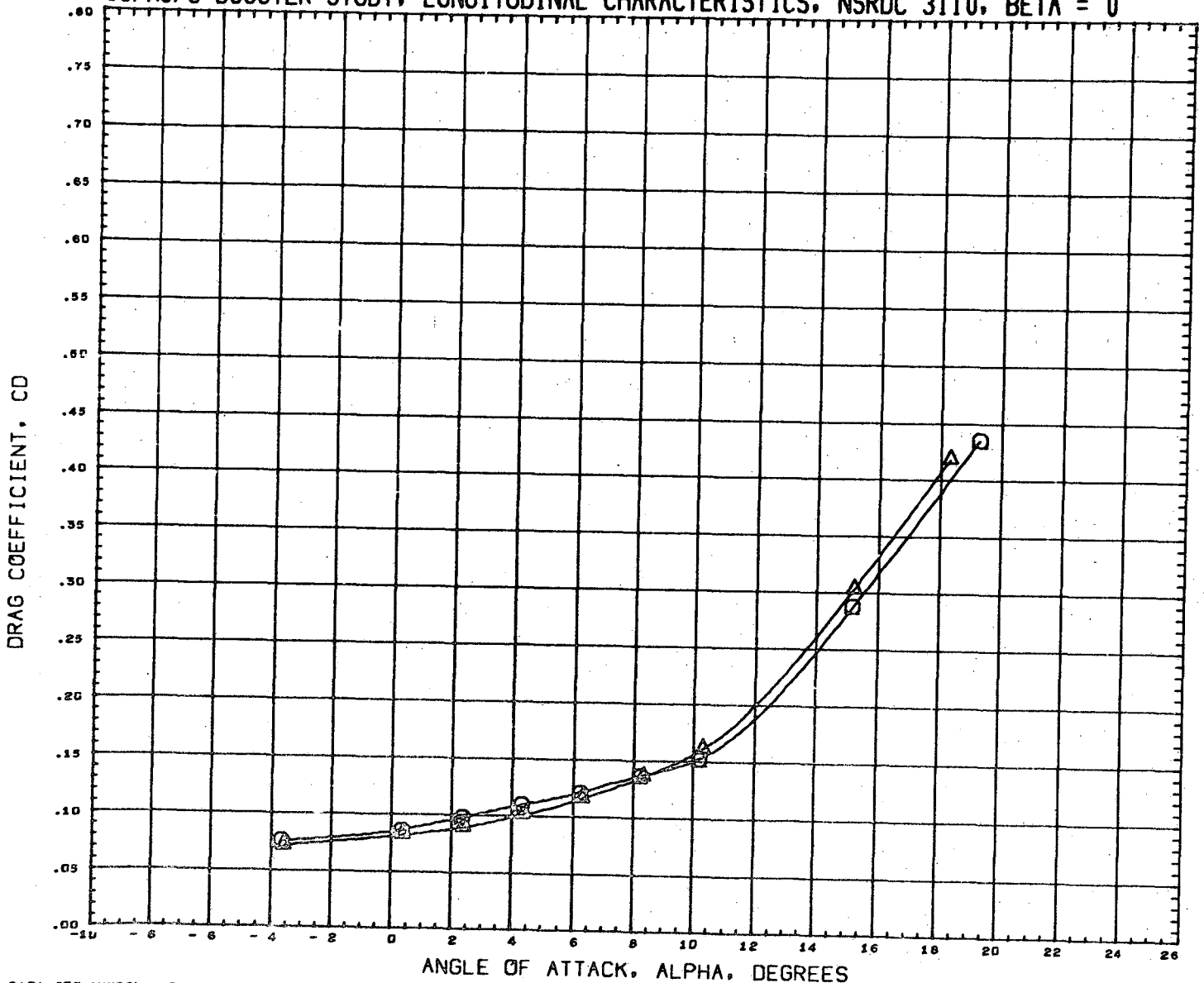
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2205)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2221)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

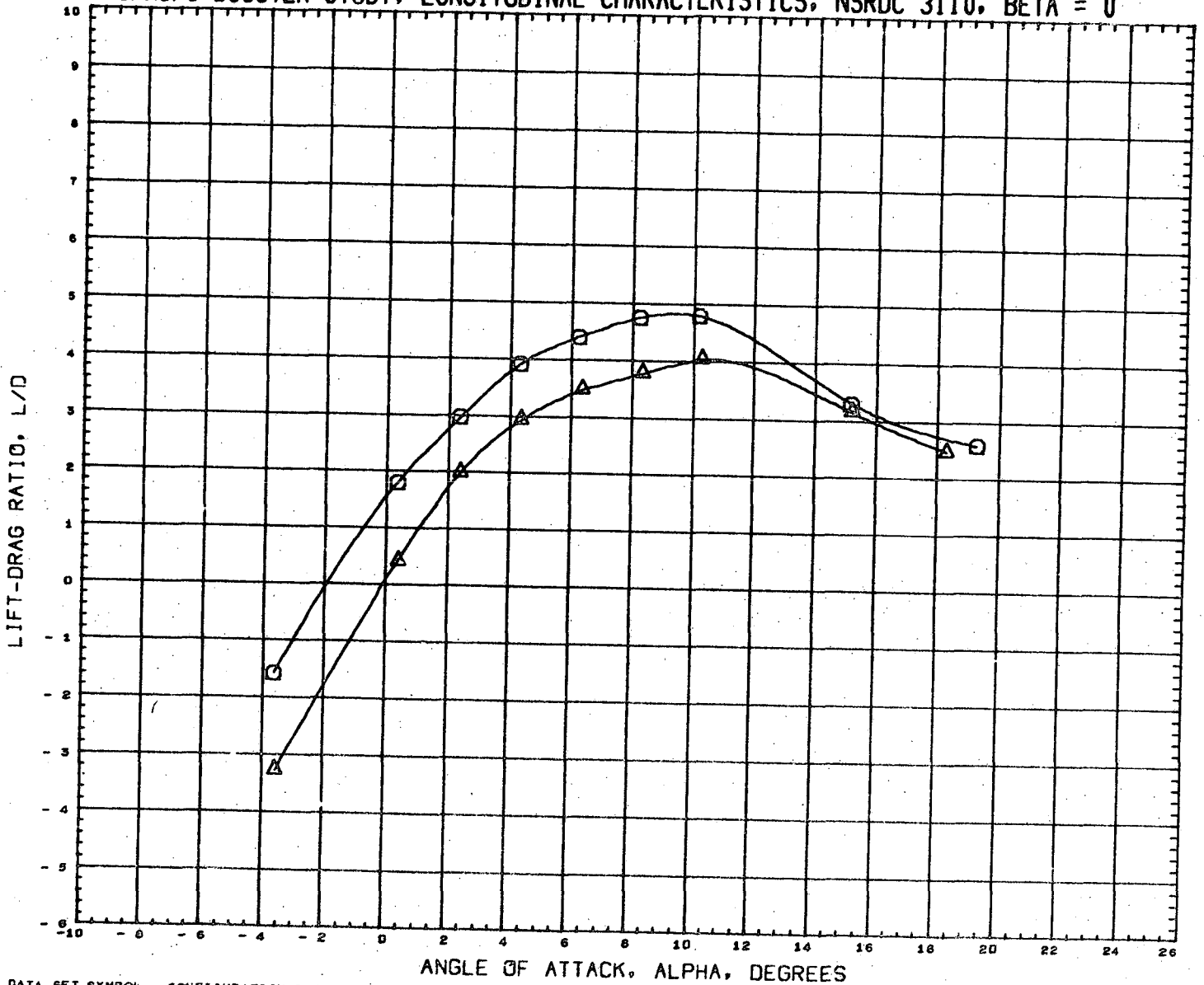
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2205)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2221)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN22D5) \square
 (RN2221) \triangle

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

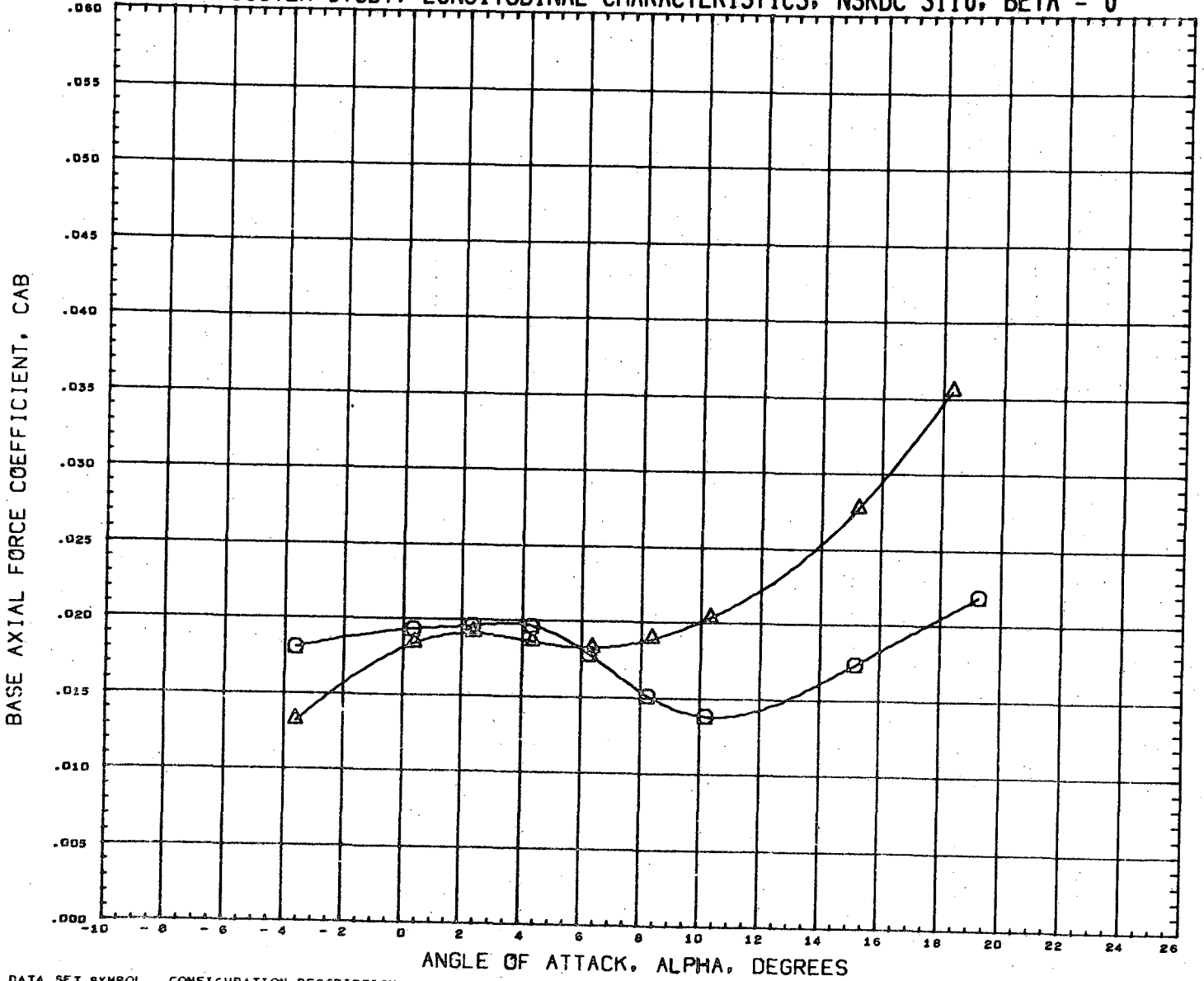
INCIDC	CNDFOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2205) \circ
 (RN2221) \triangle

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

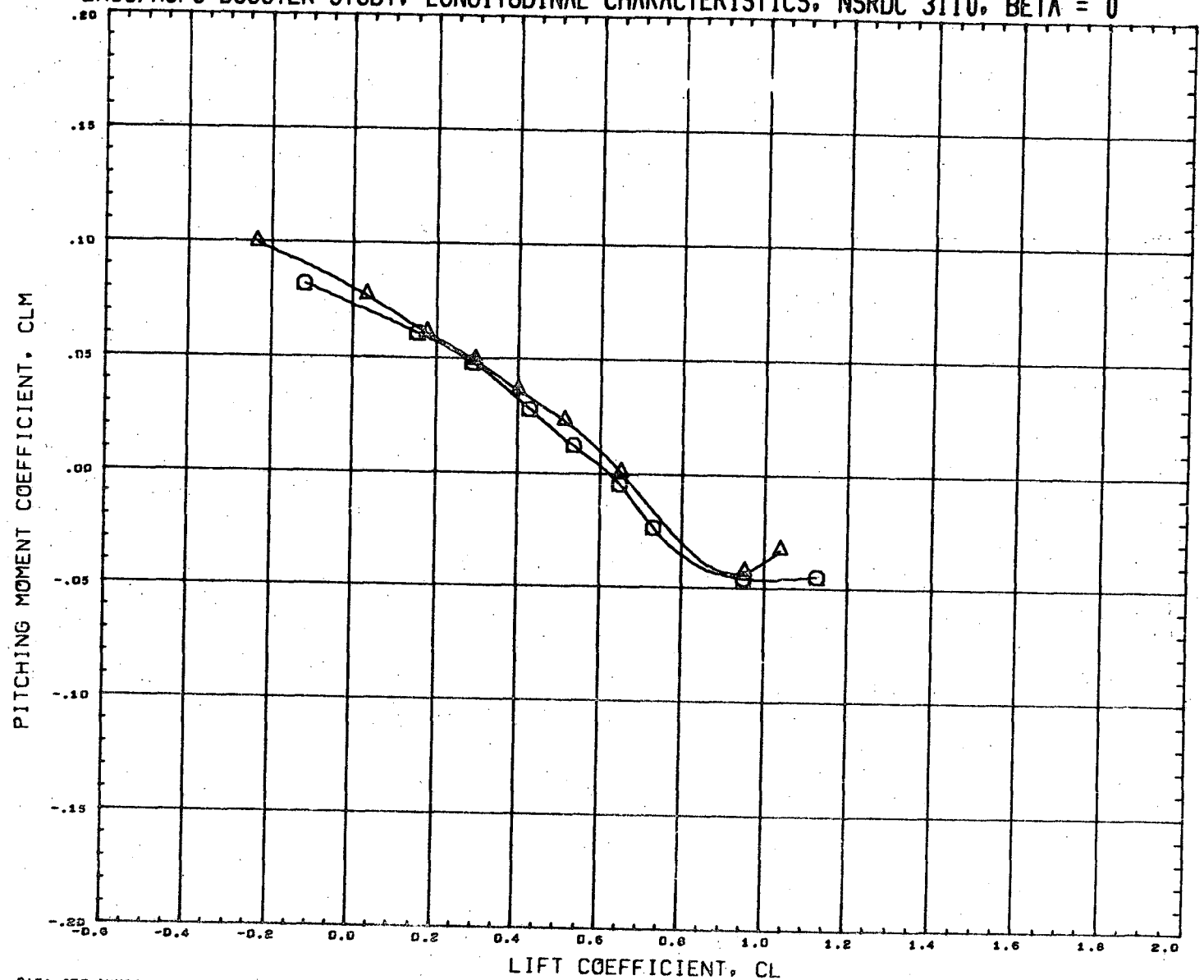
REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH

D.381

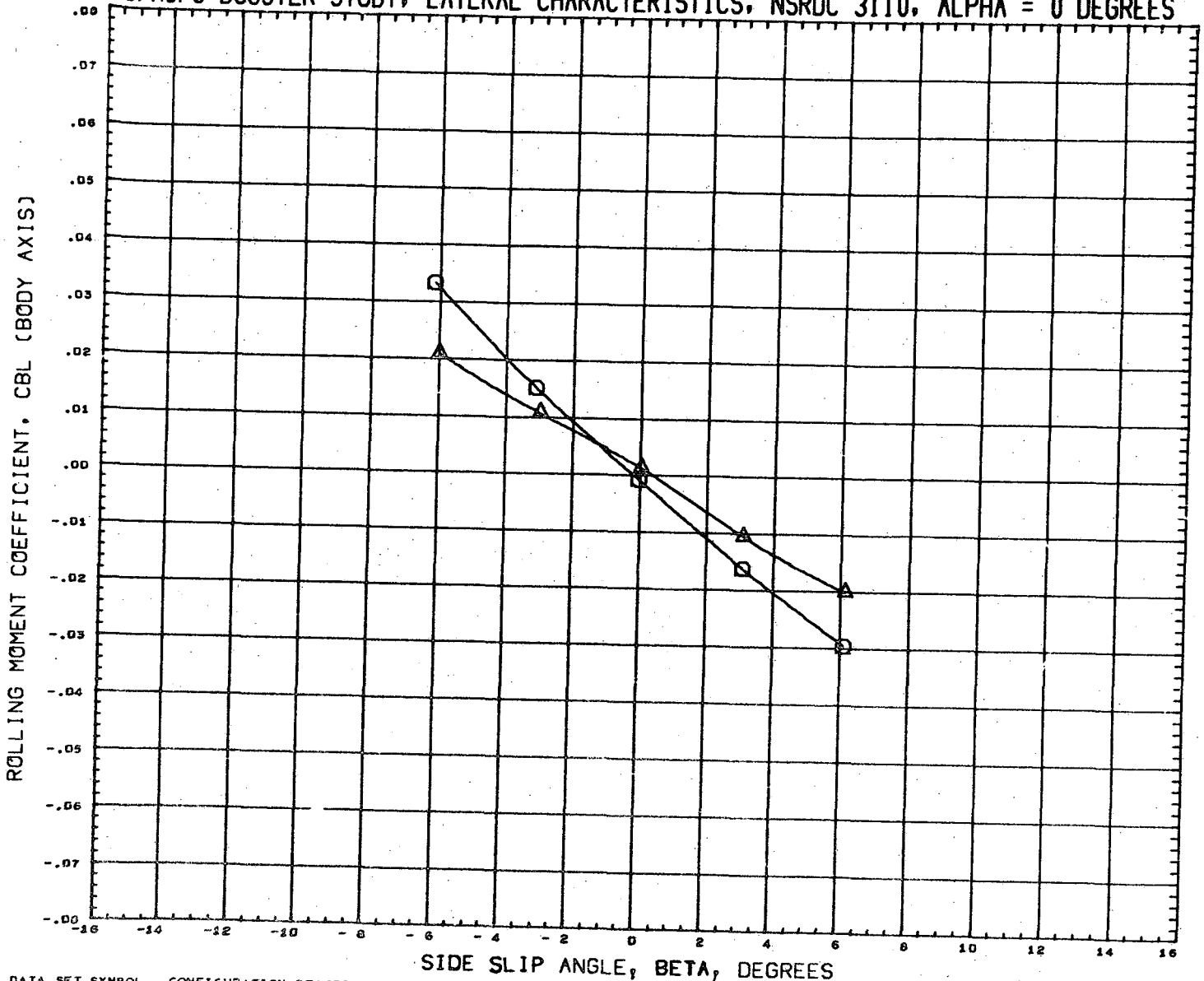
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2205)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2221)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

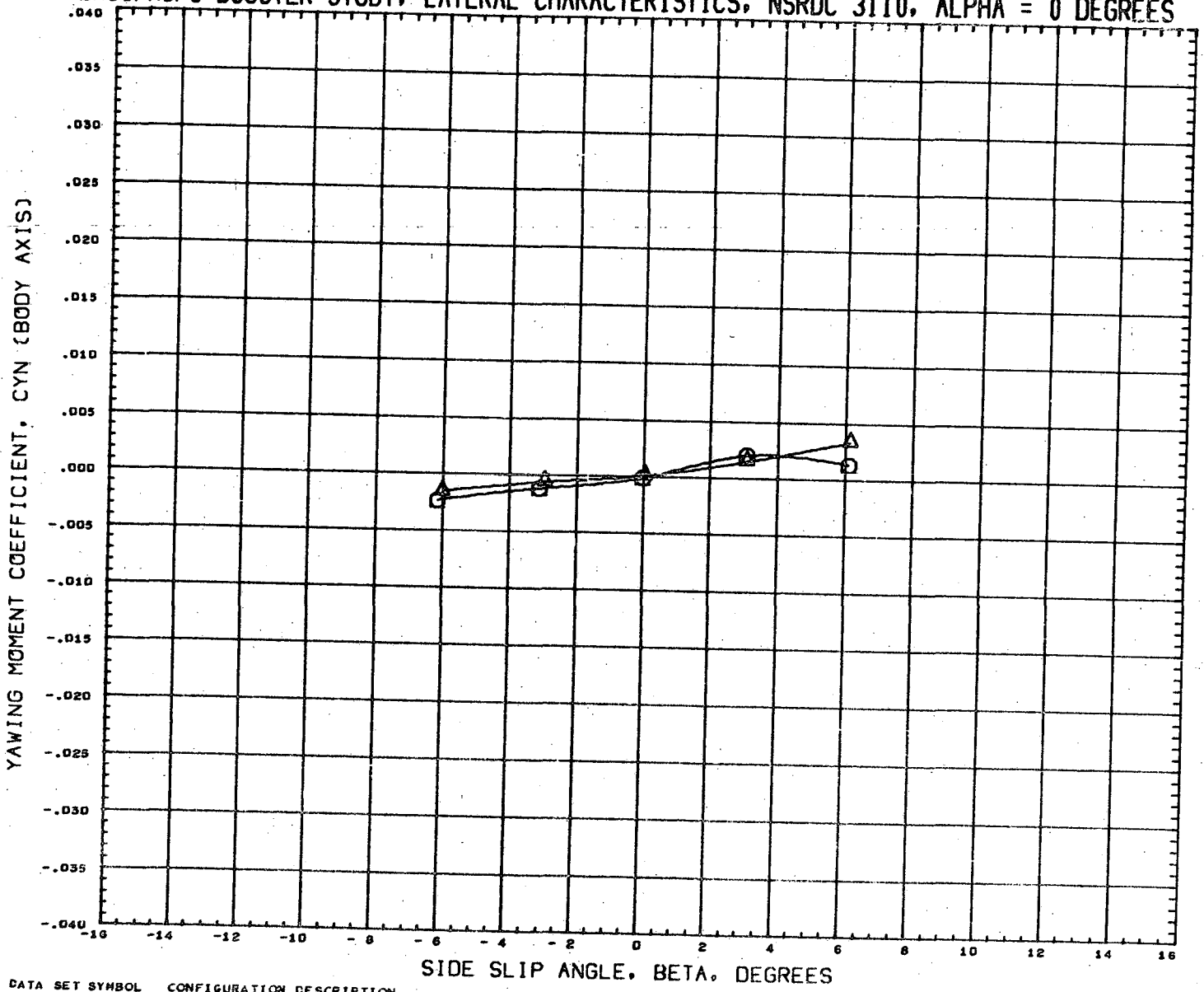


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2206)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2222)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XWRF 31.1400 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

10 ⊕

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2206)
(RN2222) **R**

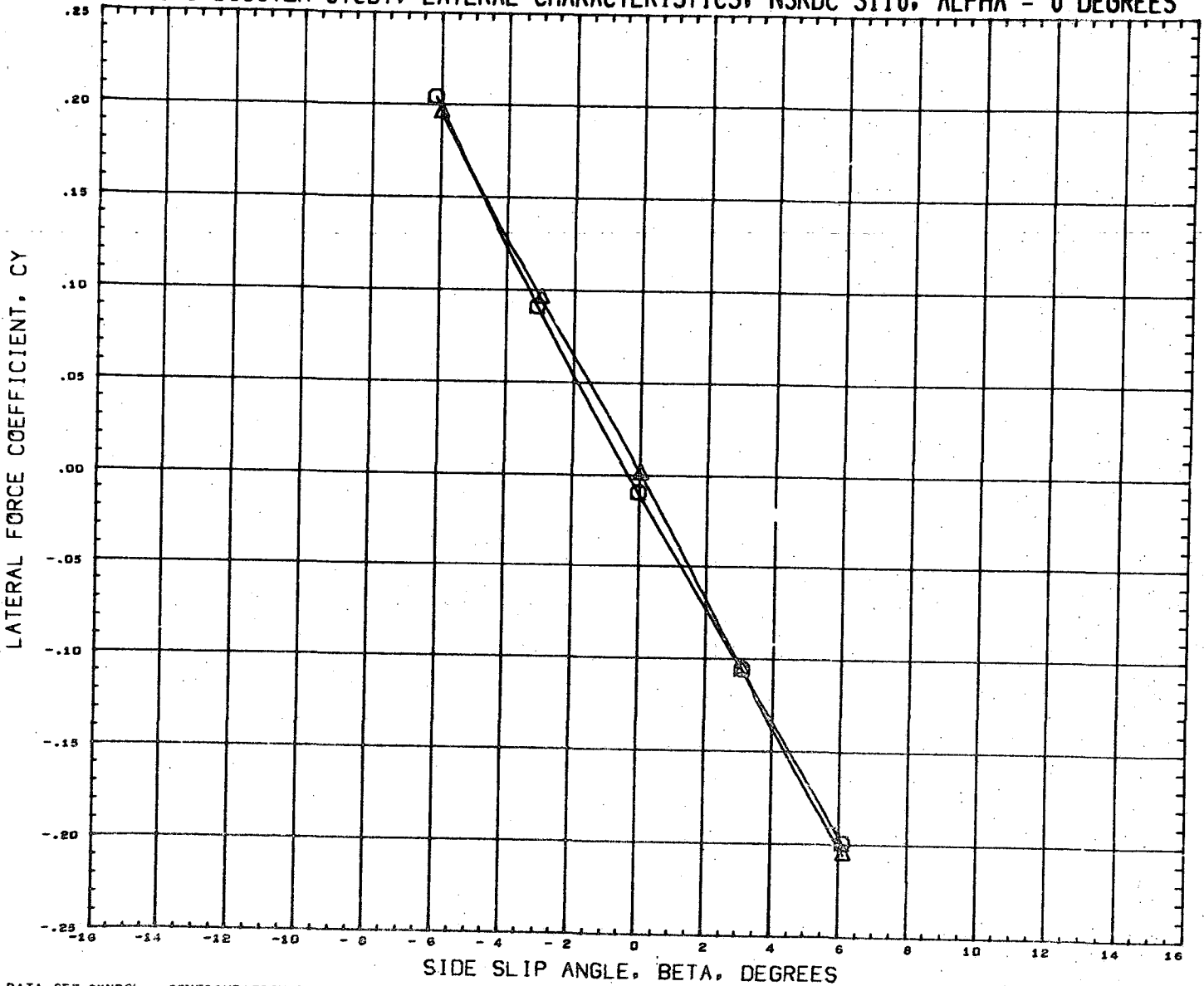
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1


INCIDC CNDPOS INCIDW WNGPOS
15.000 2.000 0.000 1.000
15.000 2.000 0.000 2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.302

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2206) 
(RN2222)

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

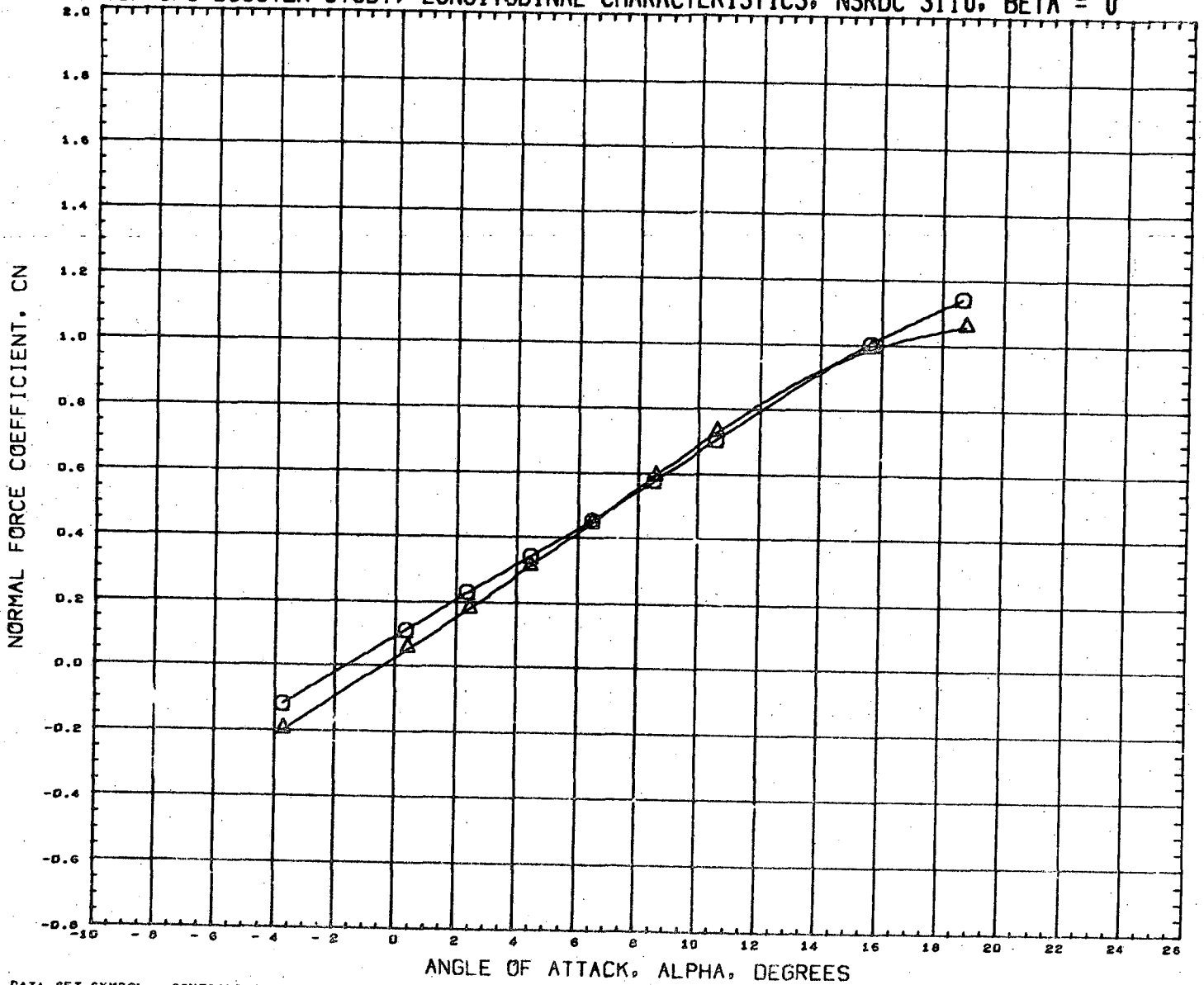
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.382

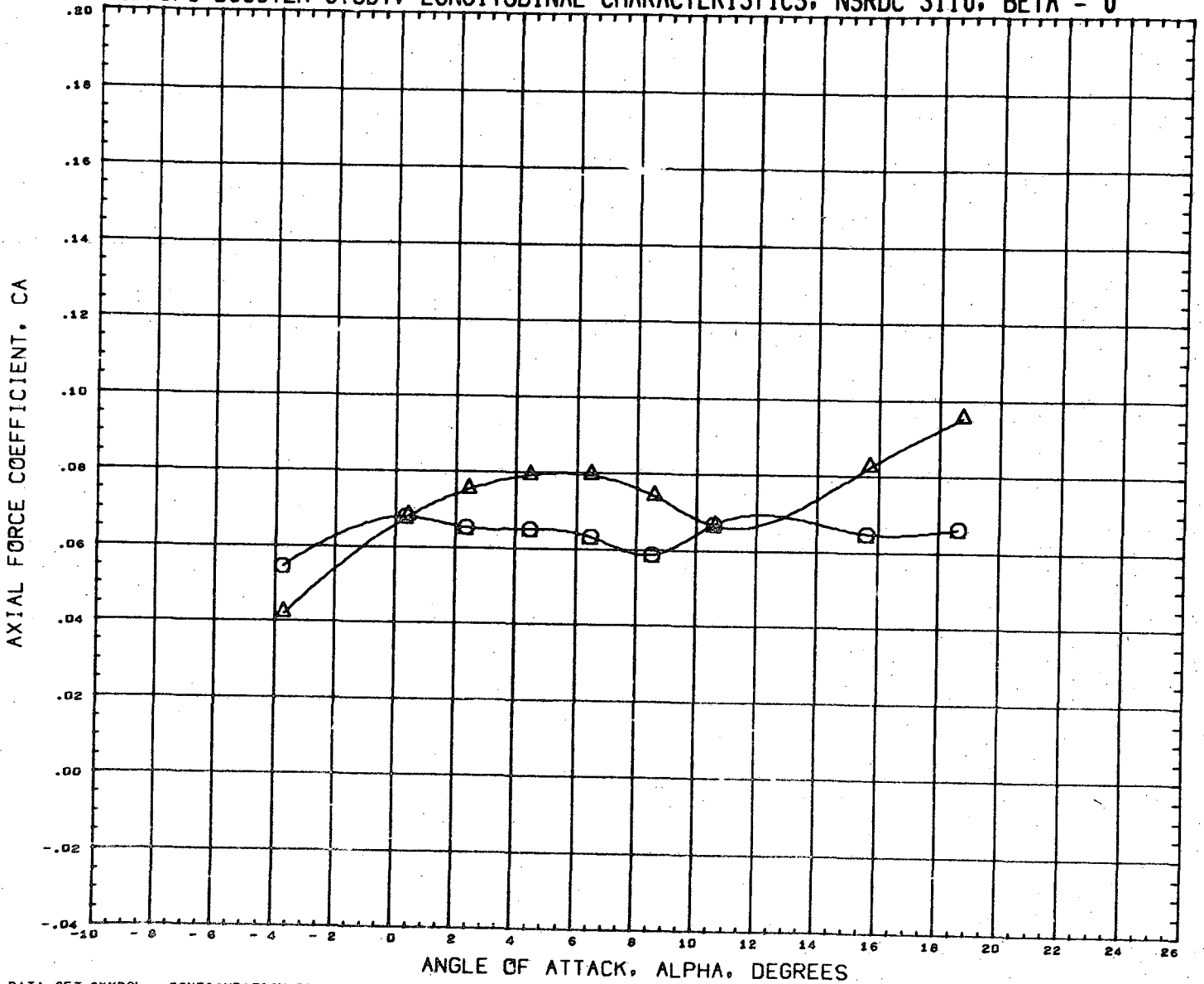
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RM2261)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RM2273)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

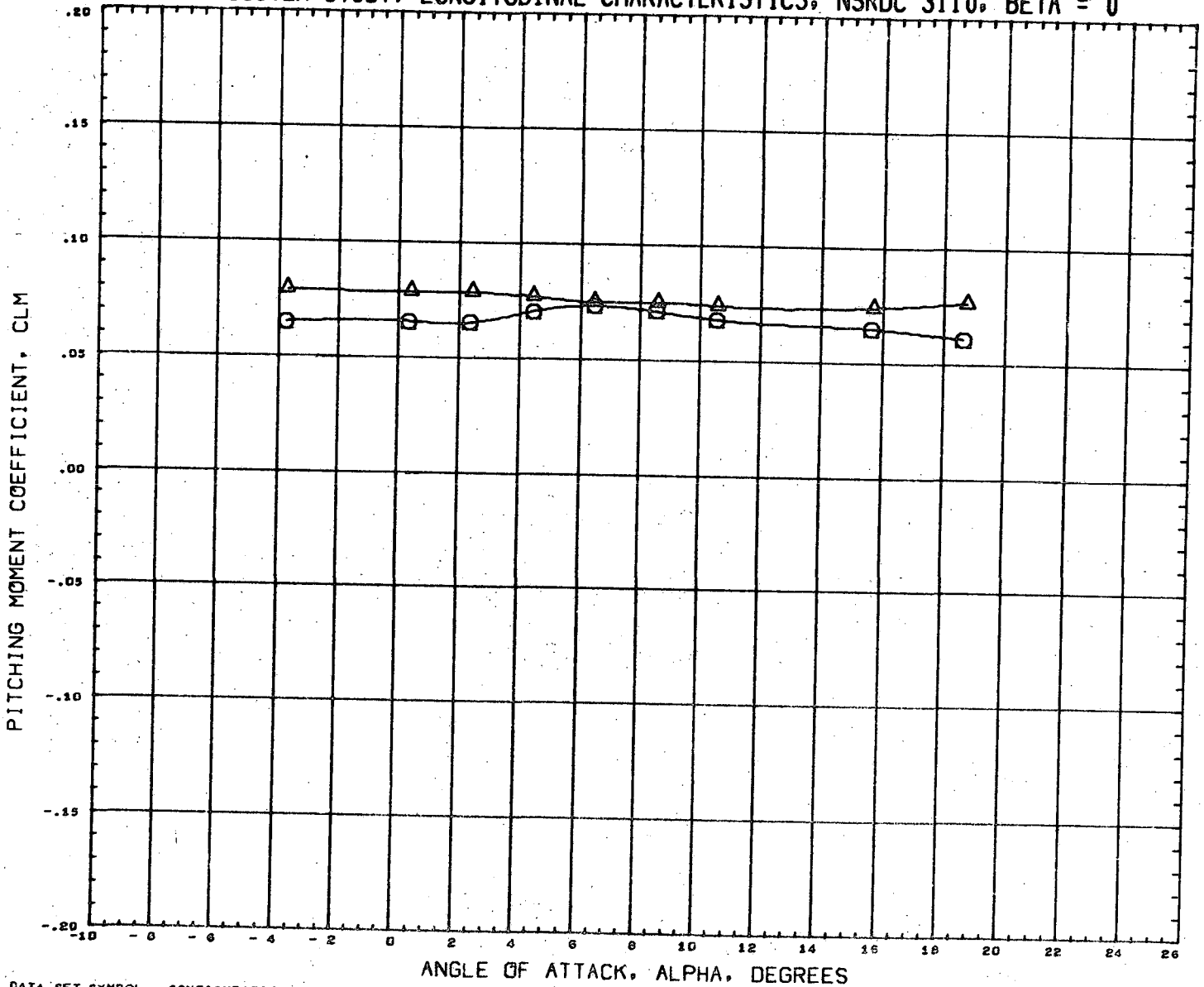
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2261)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2273)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2261) \square
 (RN2273) \triangle

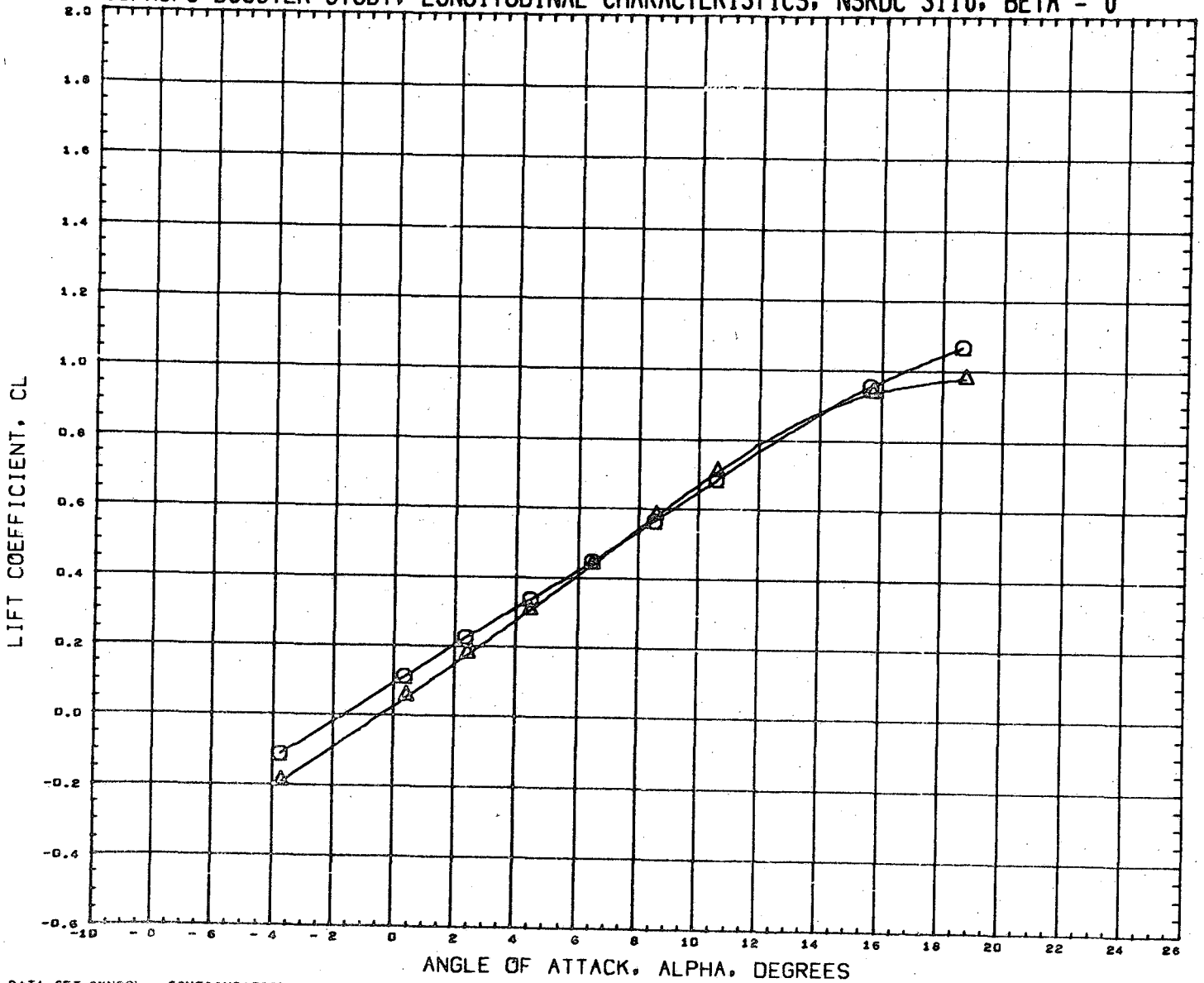
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC 15.000
 CNDPOS 1.000
 INCIDW 0.000
 WNGPOS 1.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.381

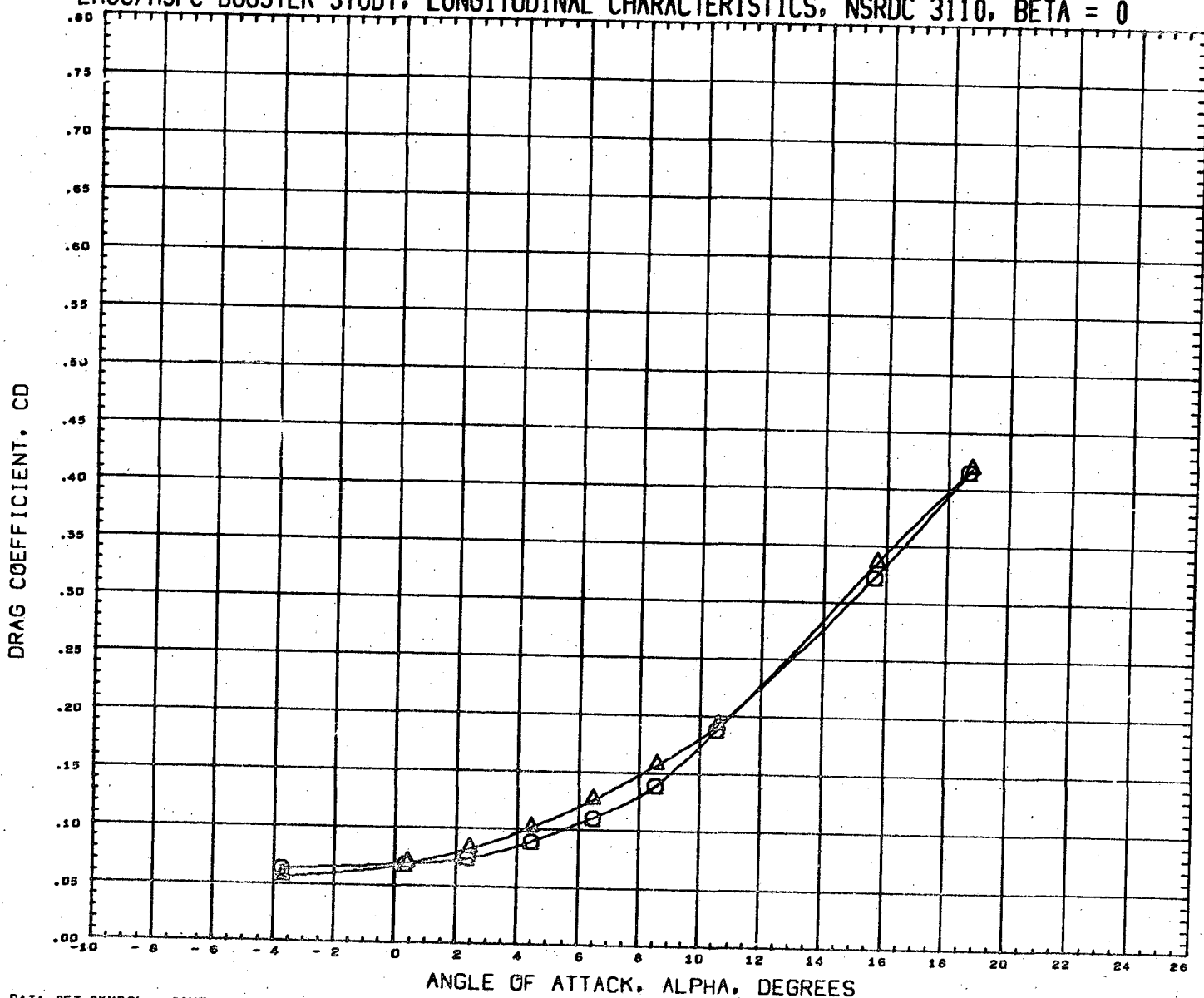
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2261)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2273)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.581

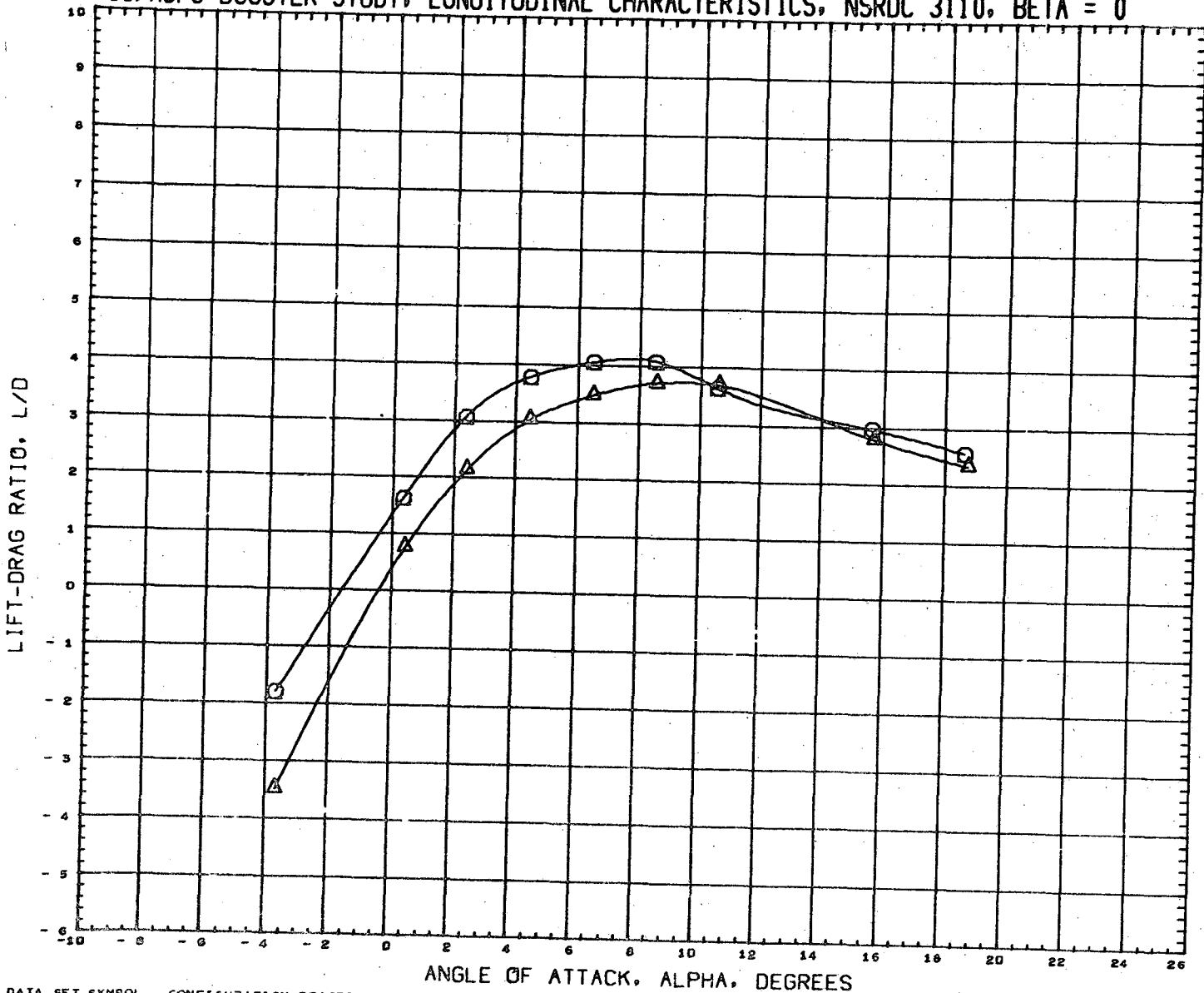
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2261)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2273)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.581

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



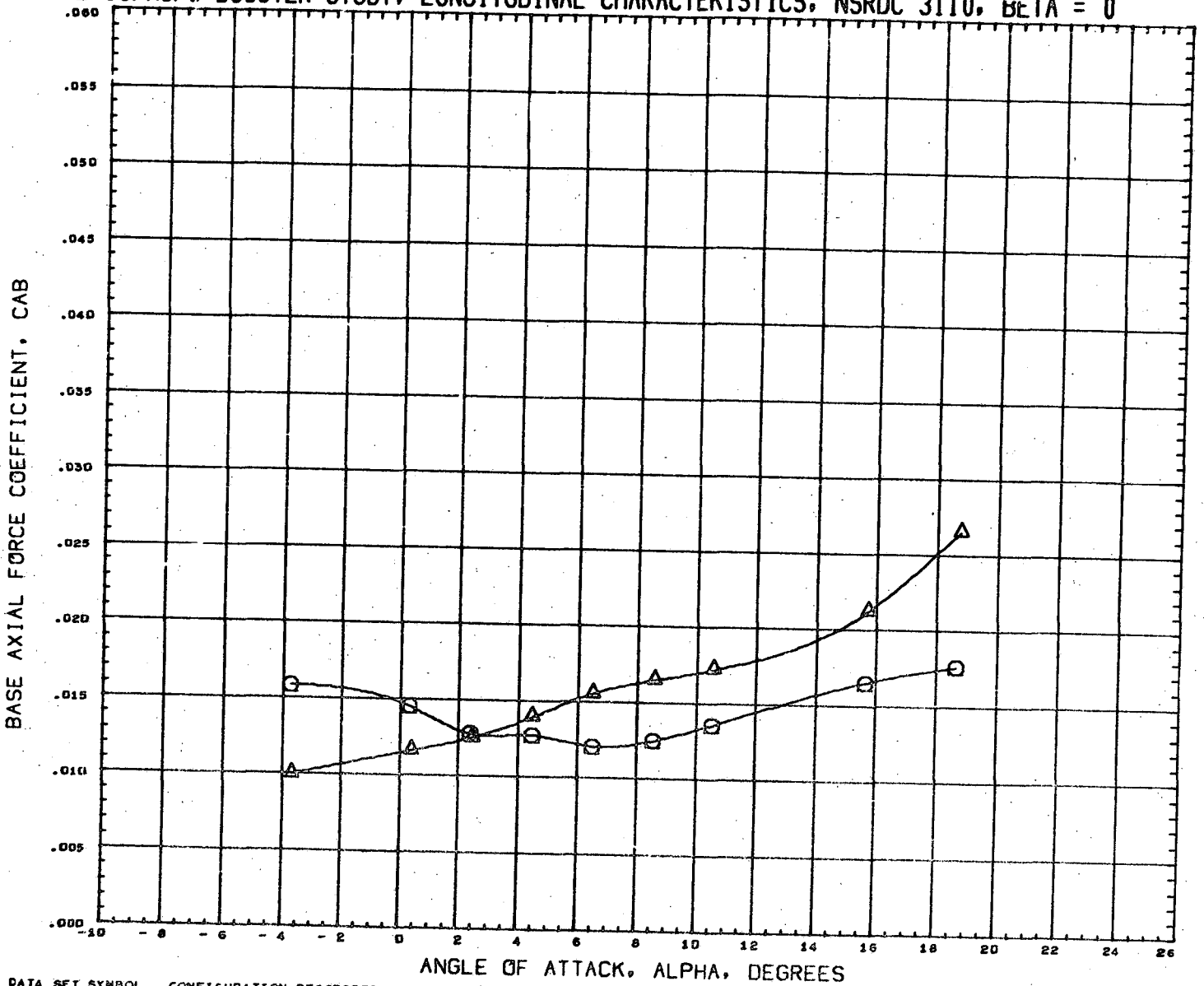
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2261) ○	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2273) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

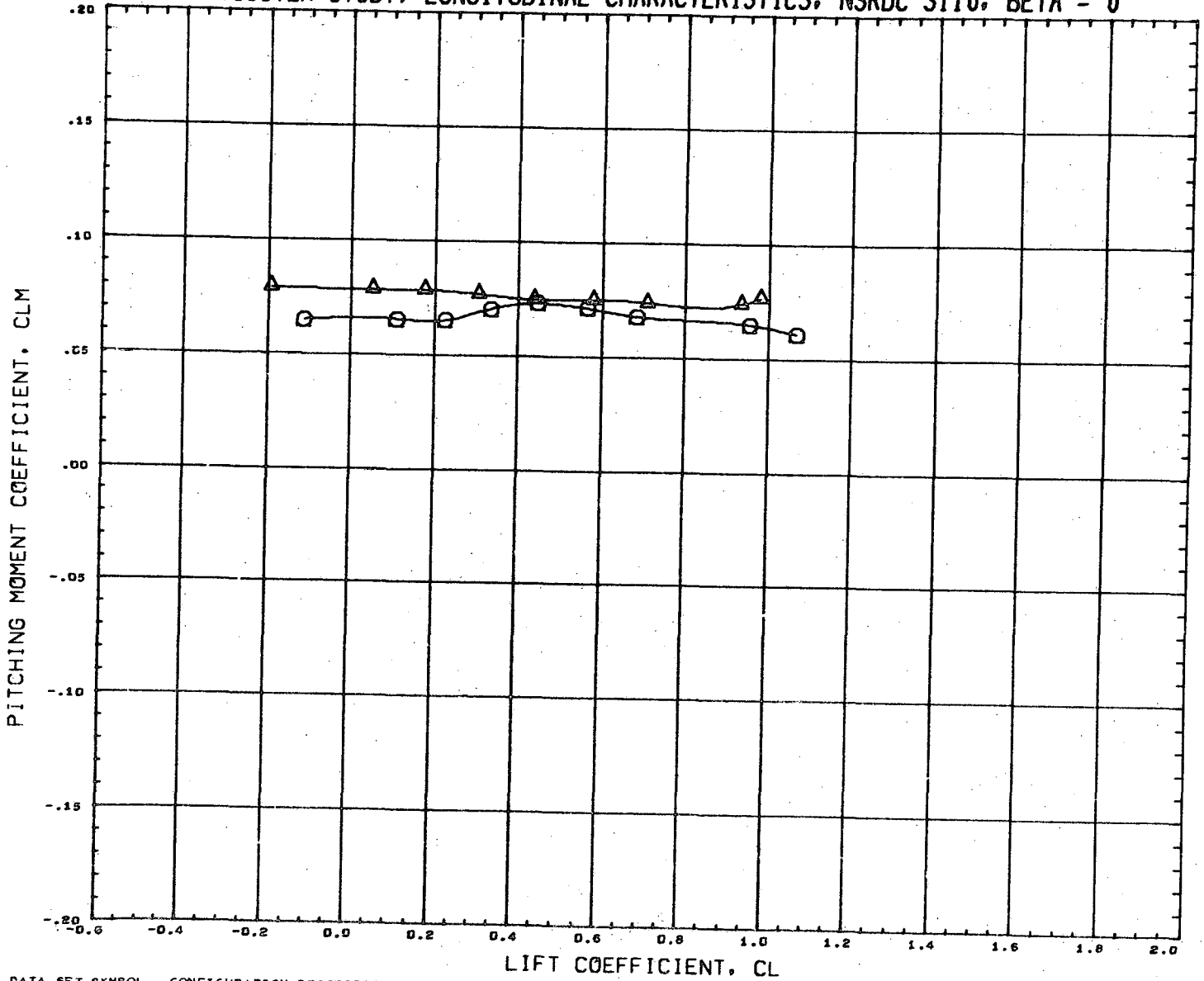
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2261)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2273)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.381

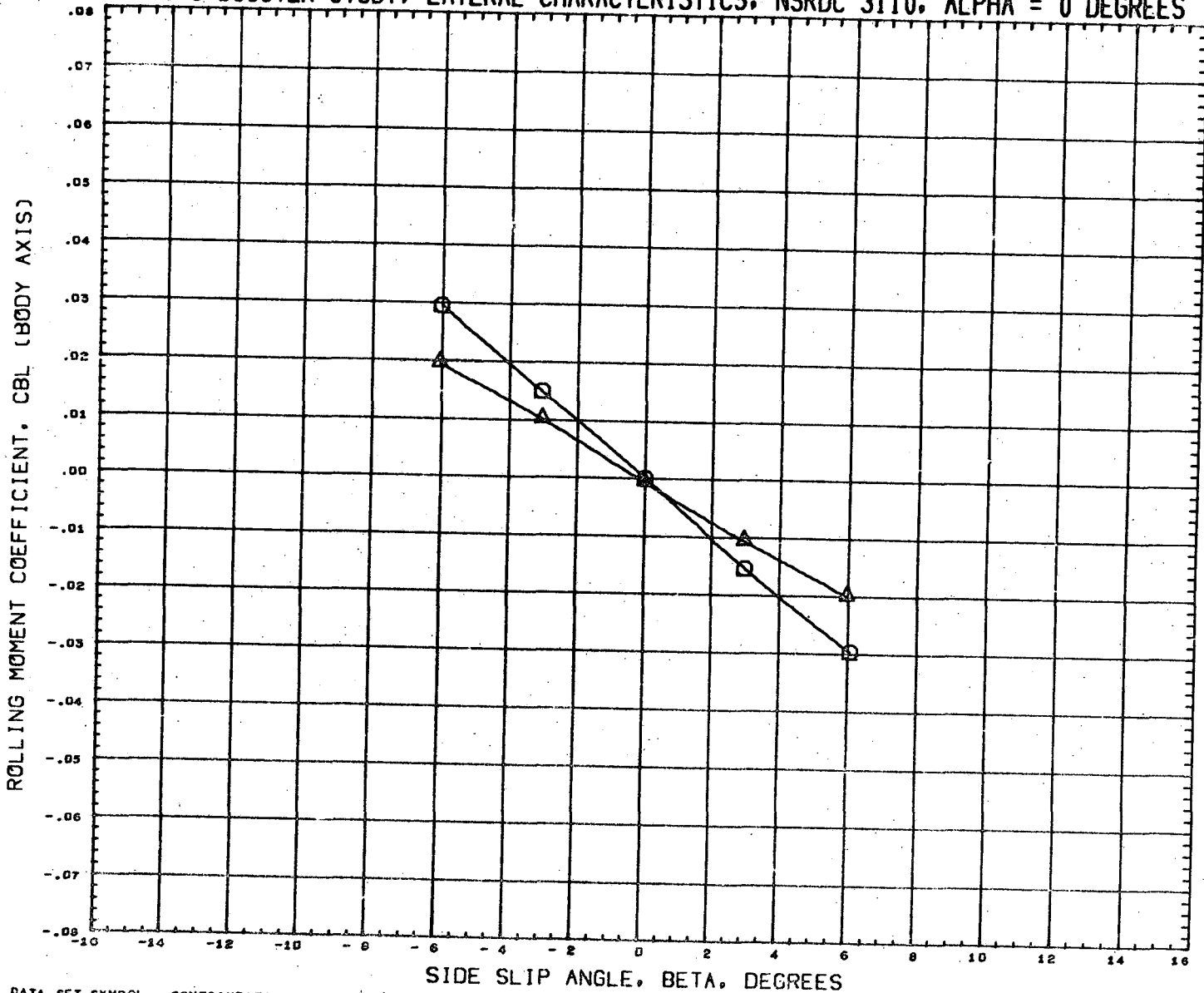
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2261)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2273)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



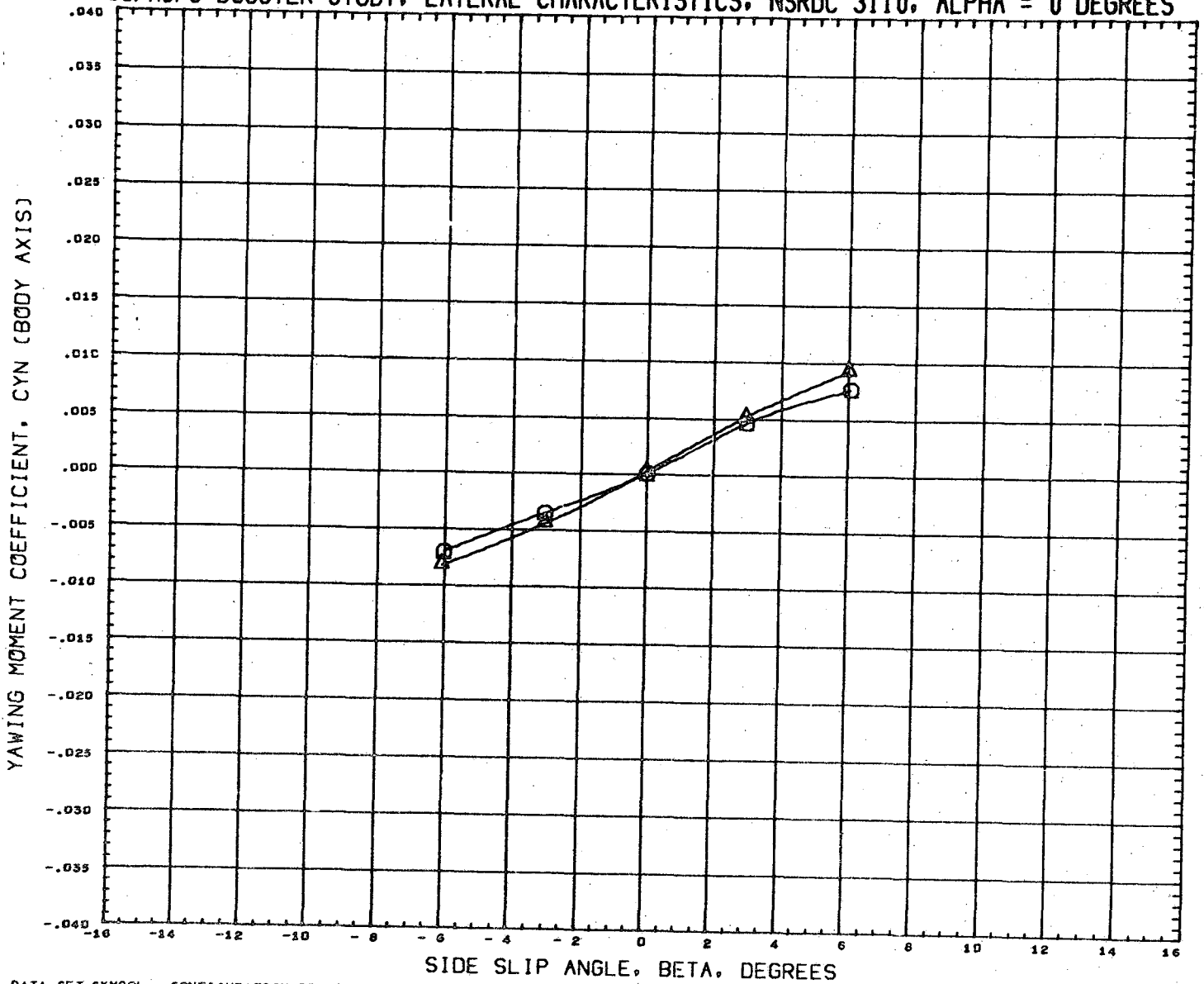
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2262)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2274)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

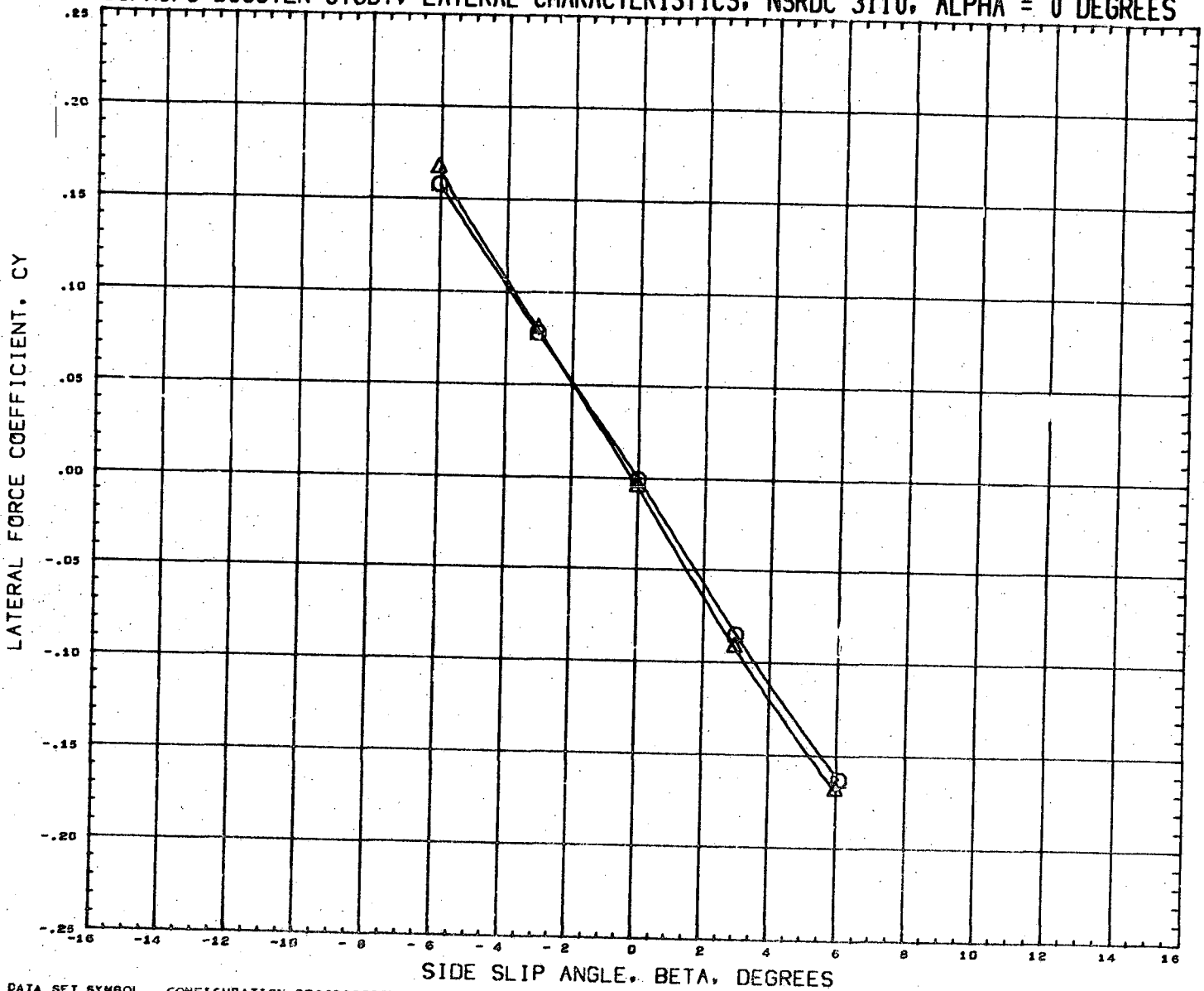
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2262)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	1.000	SREF 1.3550 98.FT.
(RN2274)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.301

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2262)
(RN2274)



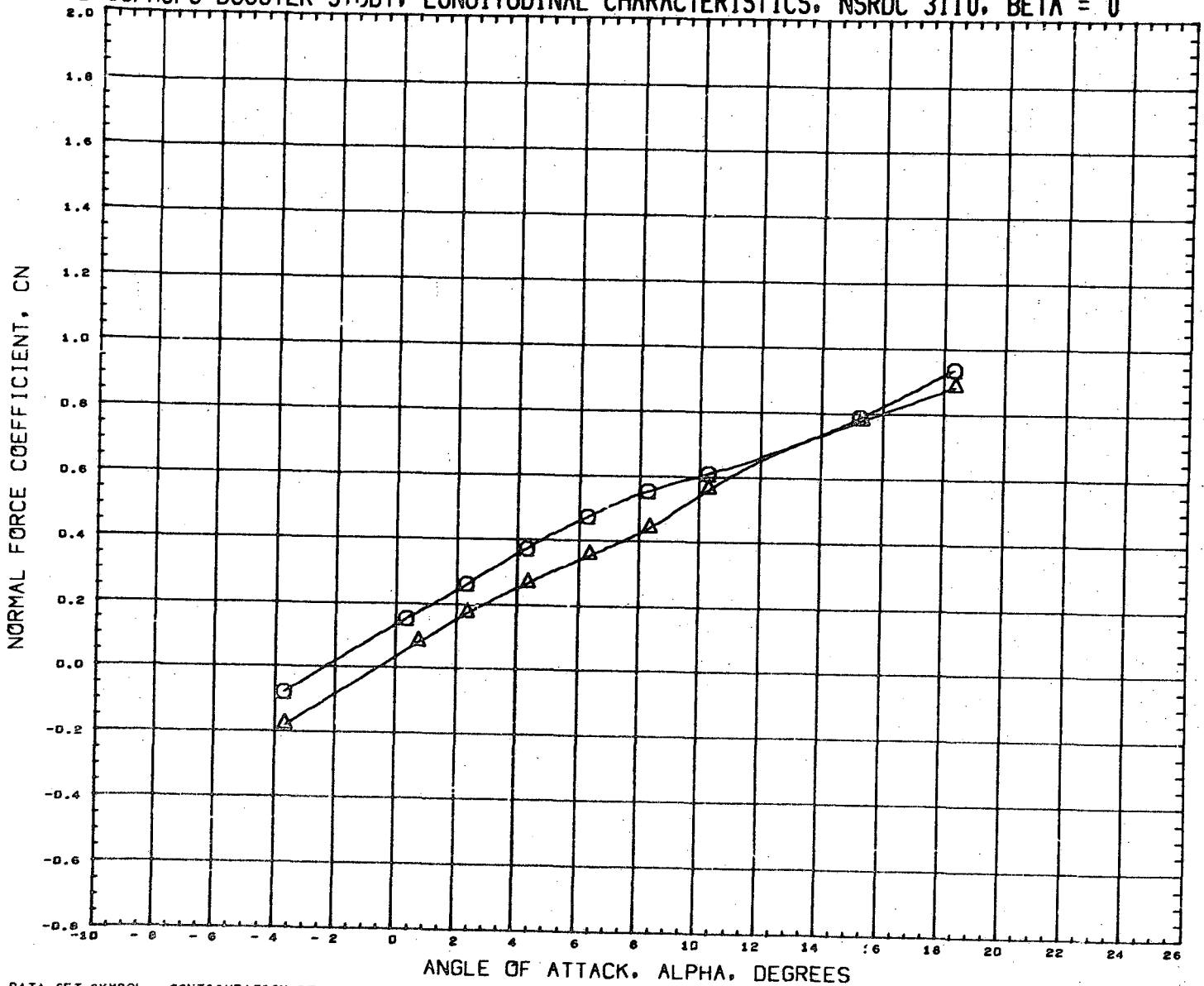
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.581

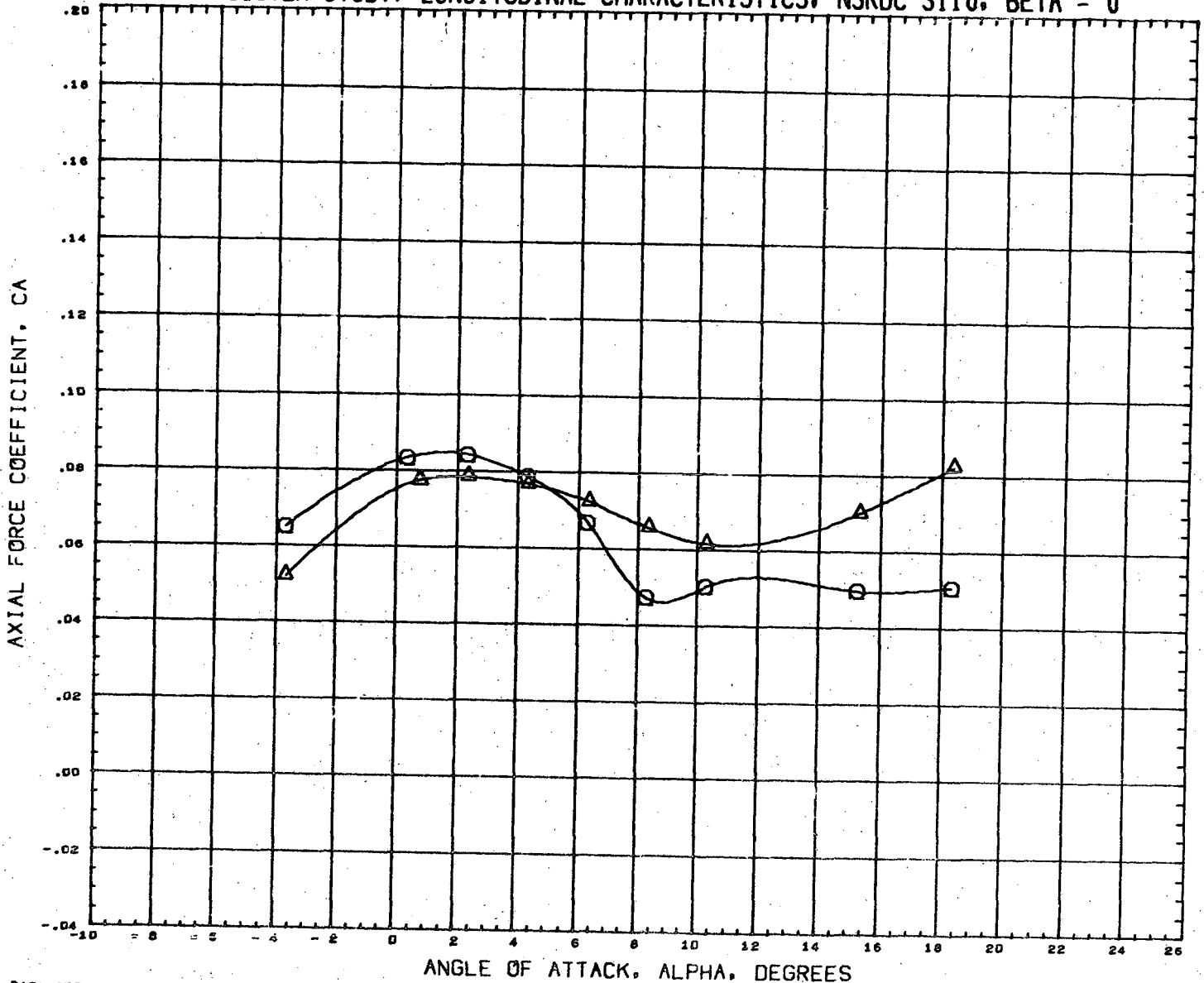
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2269)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2281)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.379

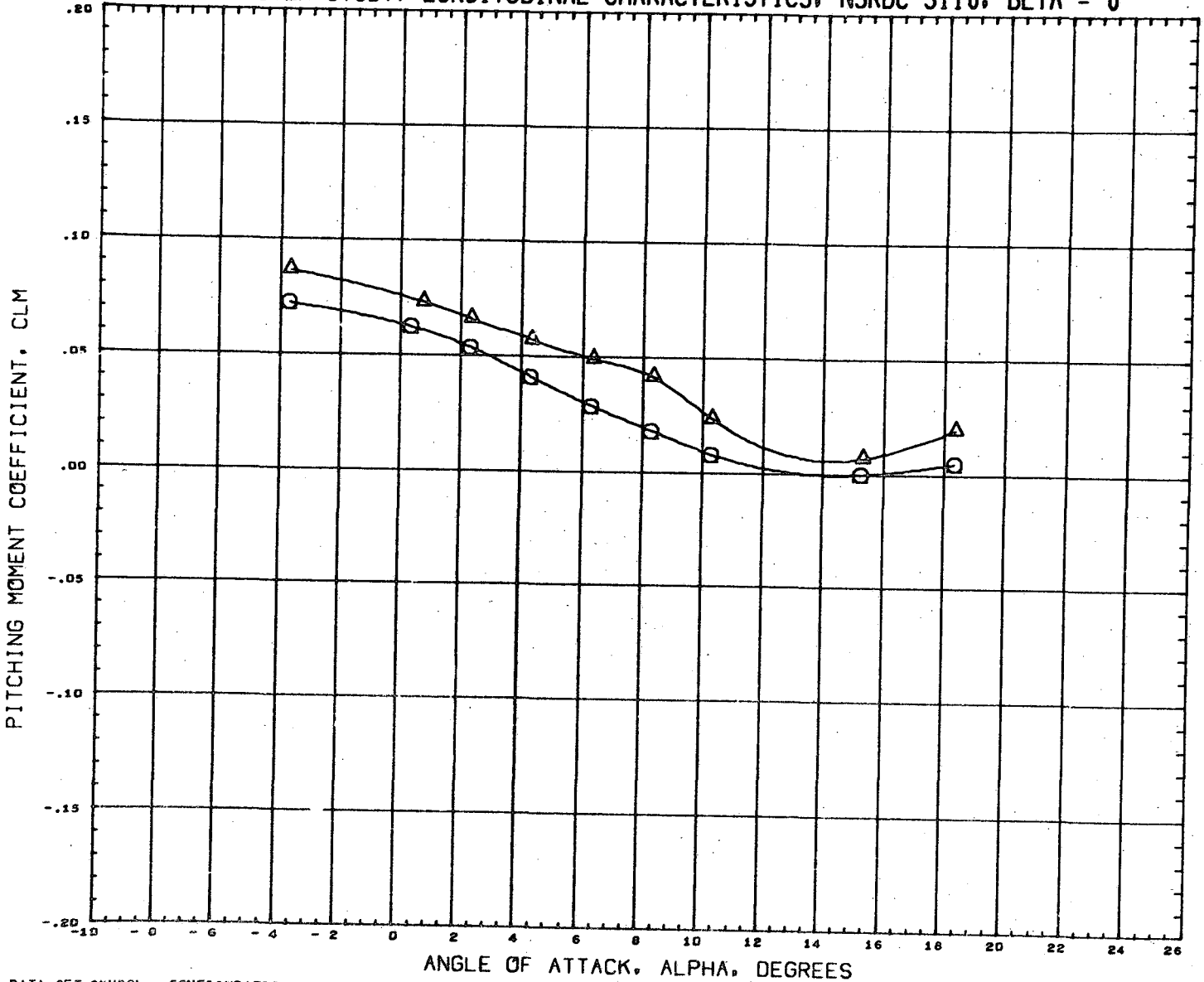
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2269)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2281)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

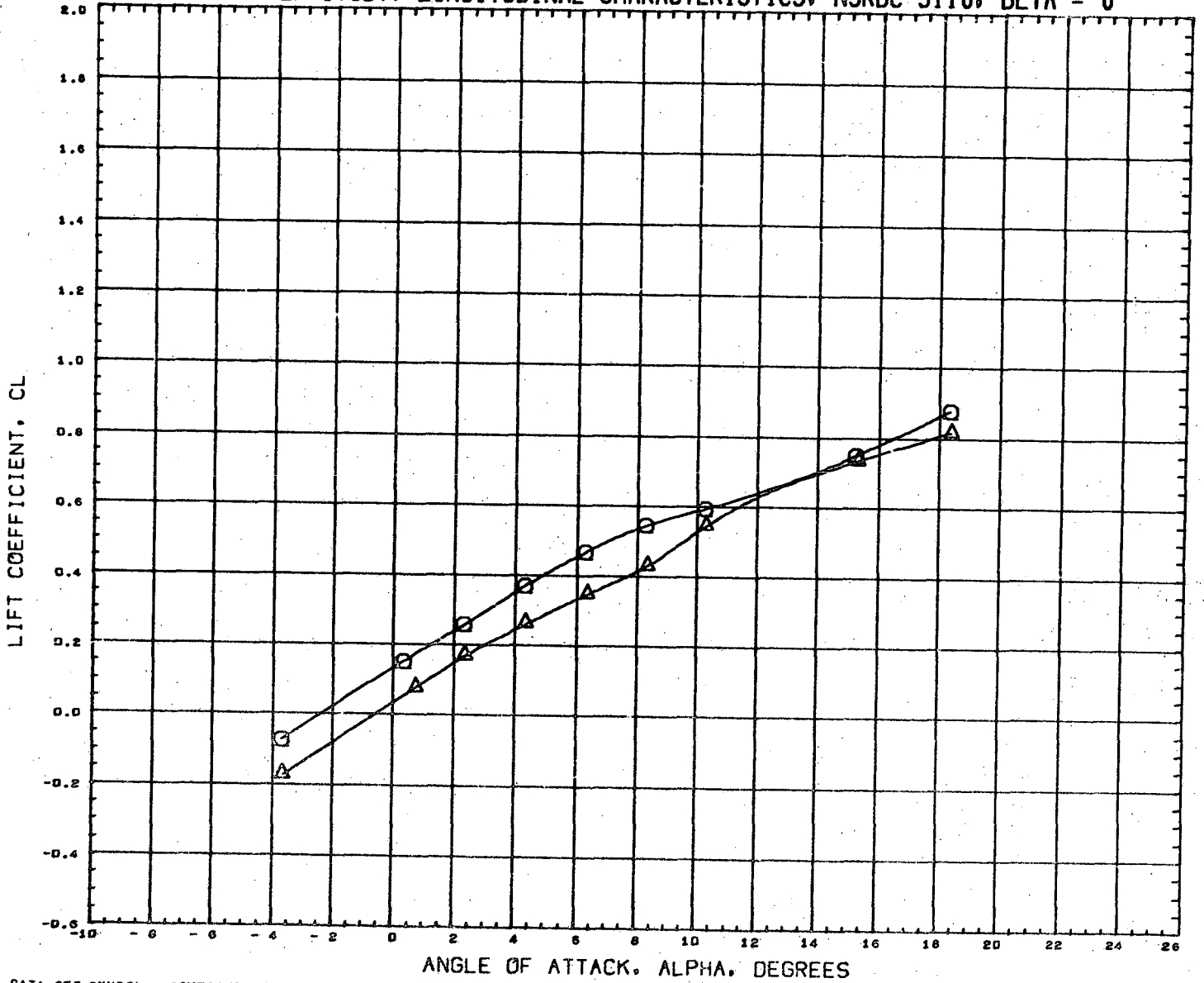
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2269)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2261)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.379

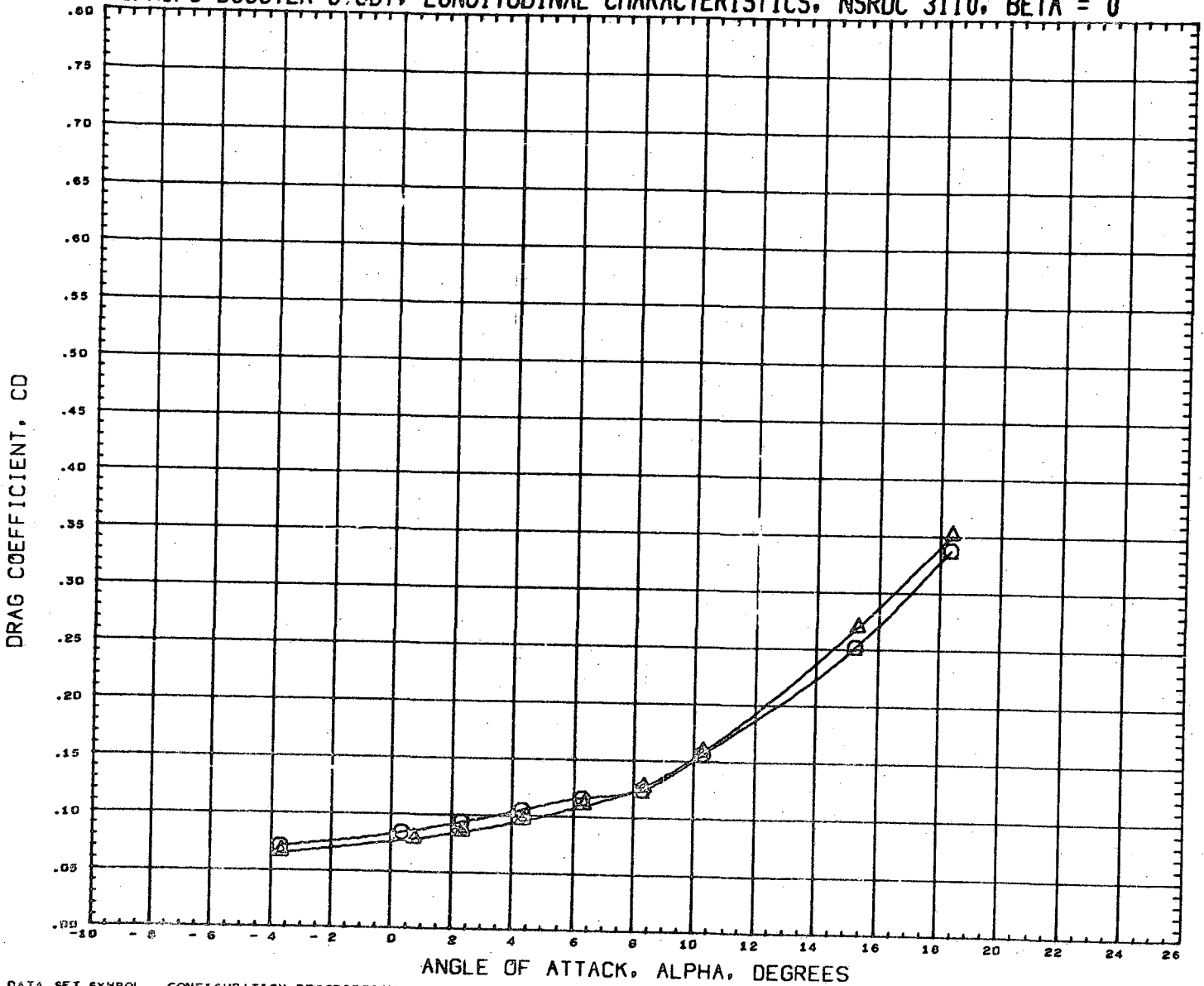
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2269) ○	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2281) △	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2269)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2261)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.379

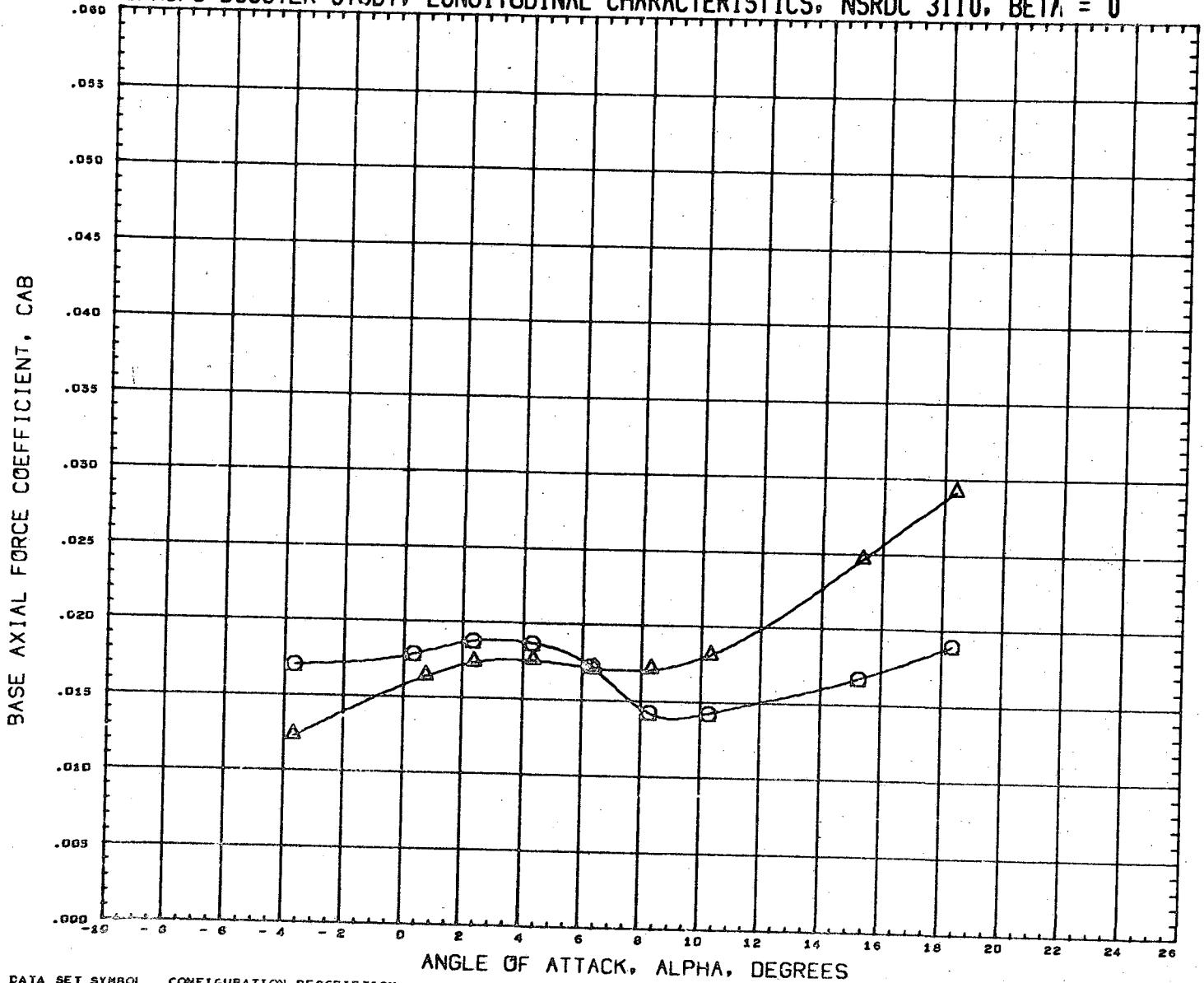
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2269)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2281)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2269) ○
 (RN2281) △

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

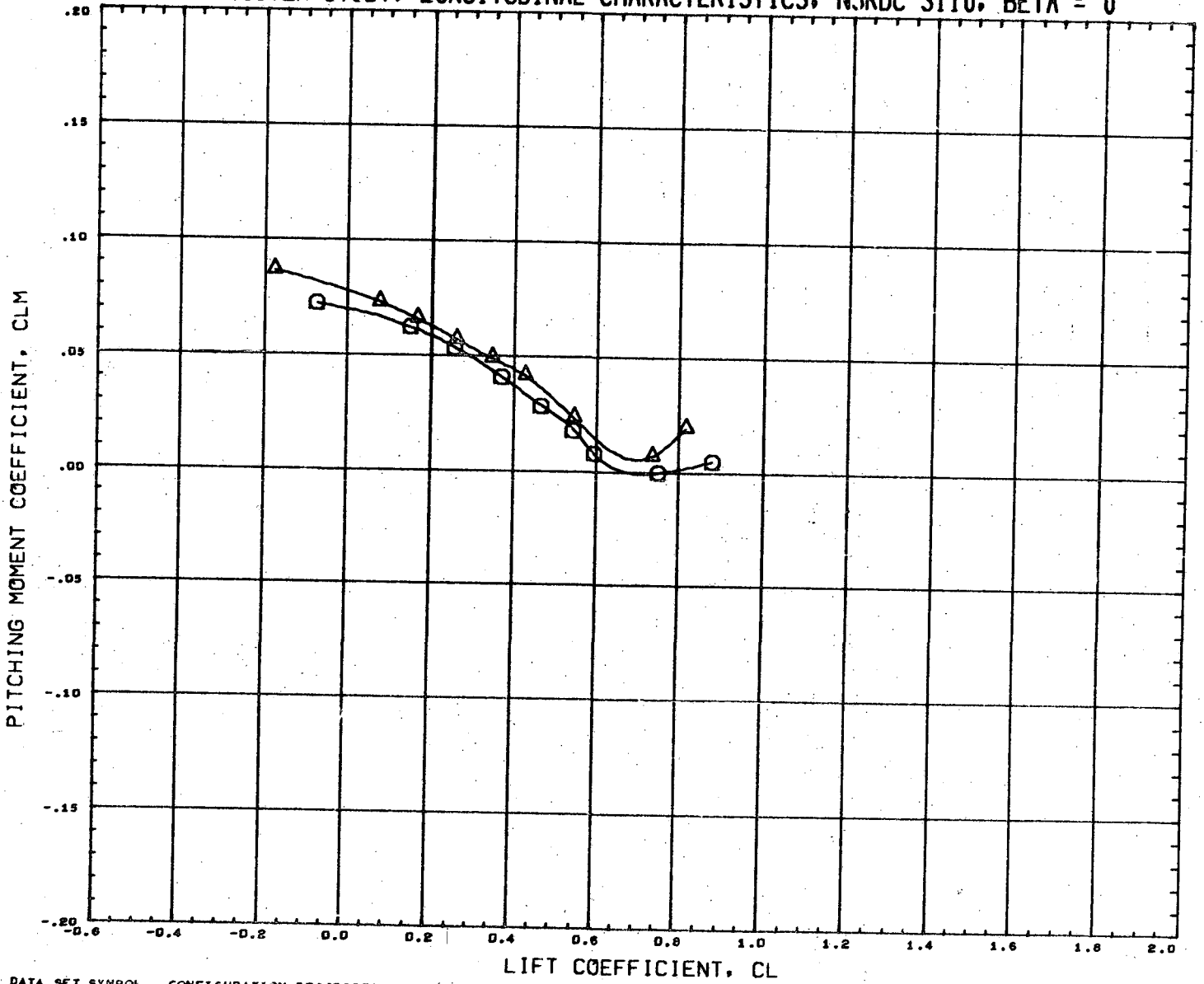
INCIDC	CNGPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	J.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.379

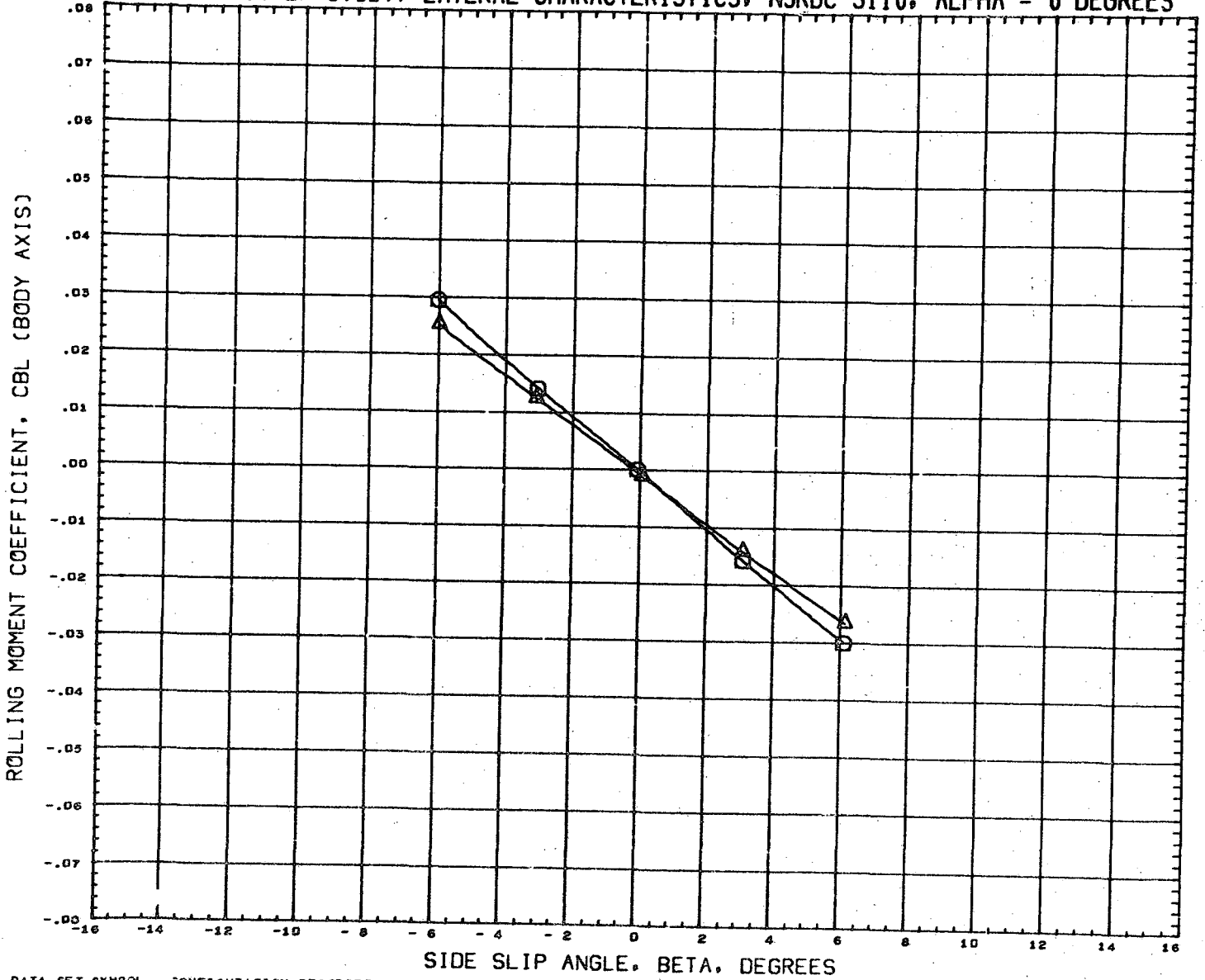
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2269)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2261)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.579

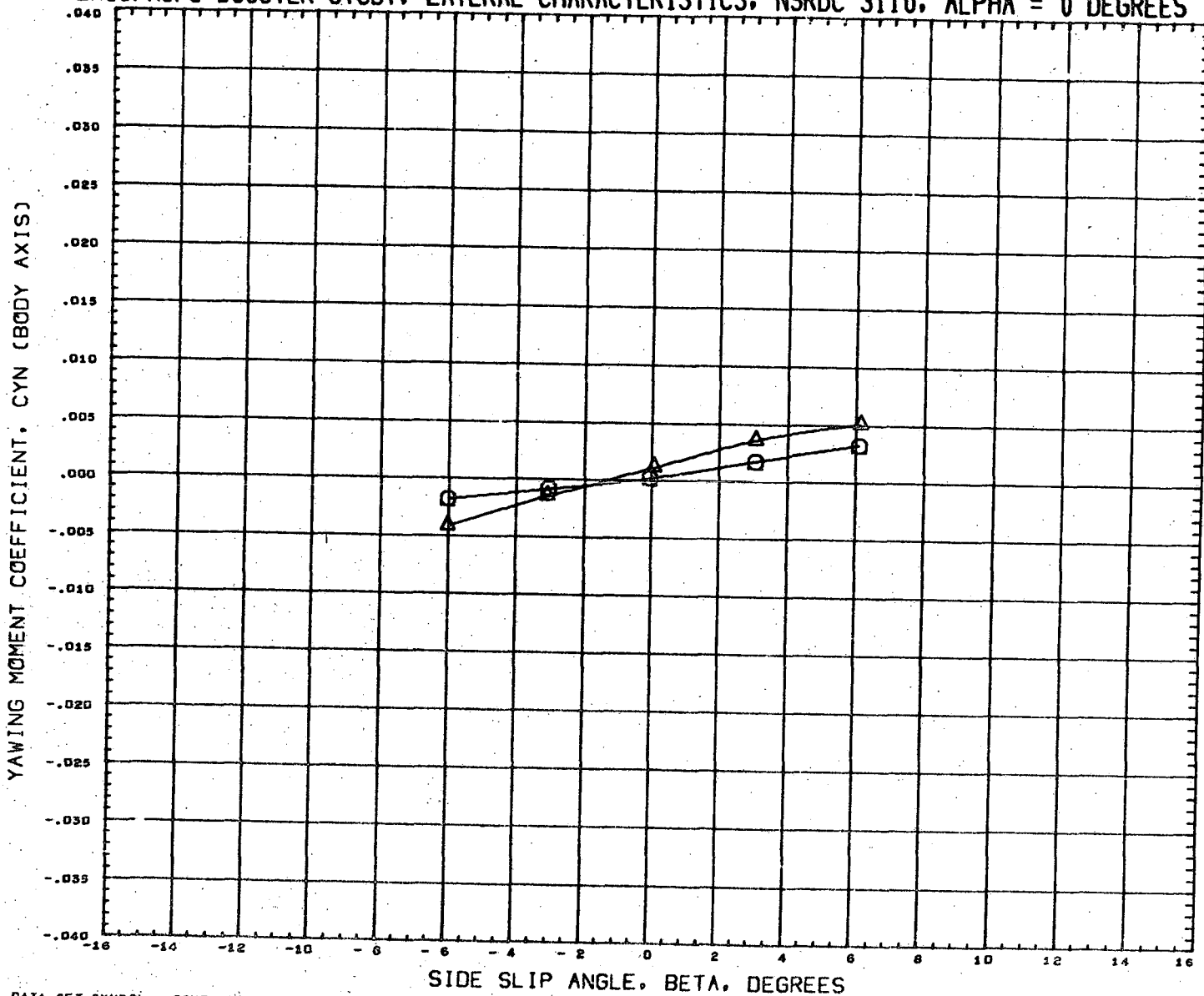
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN227D) □	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN228Z) △	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY. LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2270) \square
(RN2282) \triangle

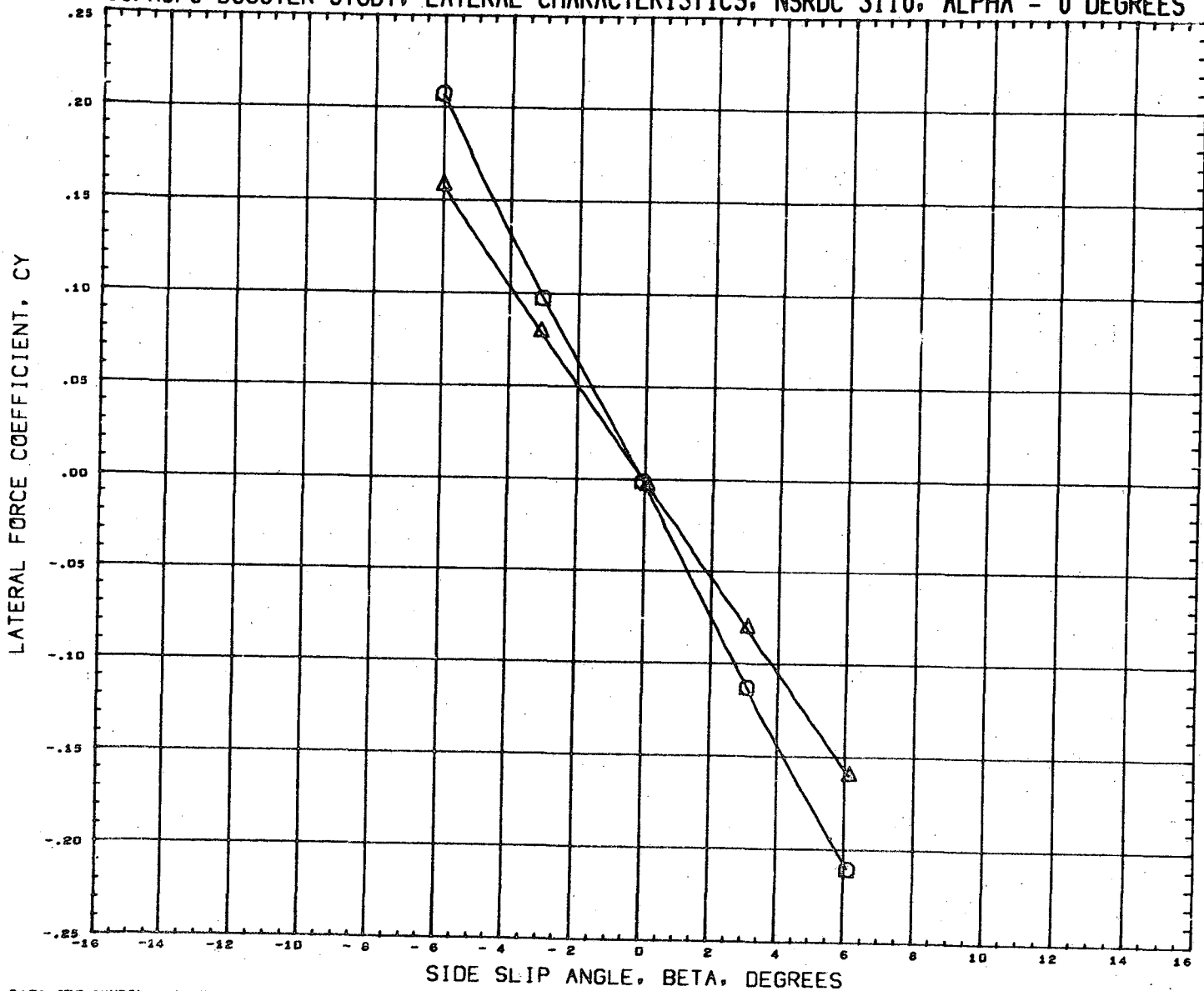
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XM RP	31.1400 INCHES
YM RP	0.0000 INCHES
ZN RP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



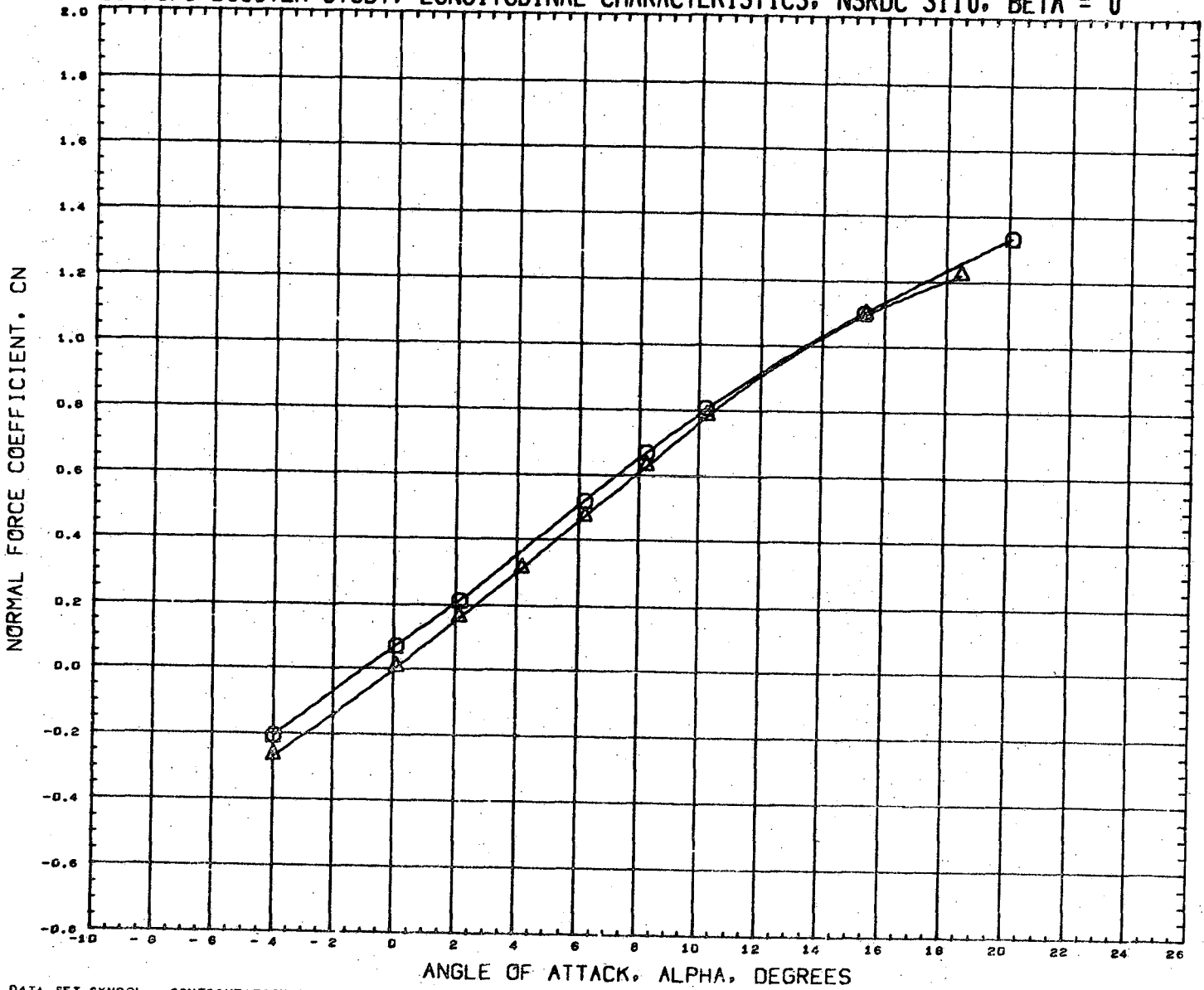
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2270)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2282)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XHRP	31.1400 INCHES
YHRP	0.0000 INCHES
ZHRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.379

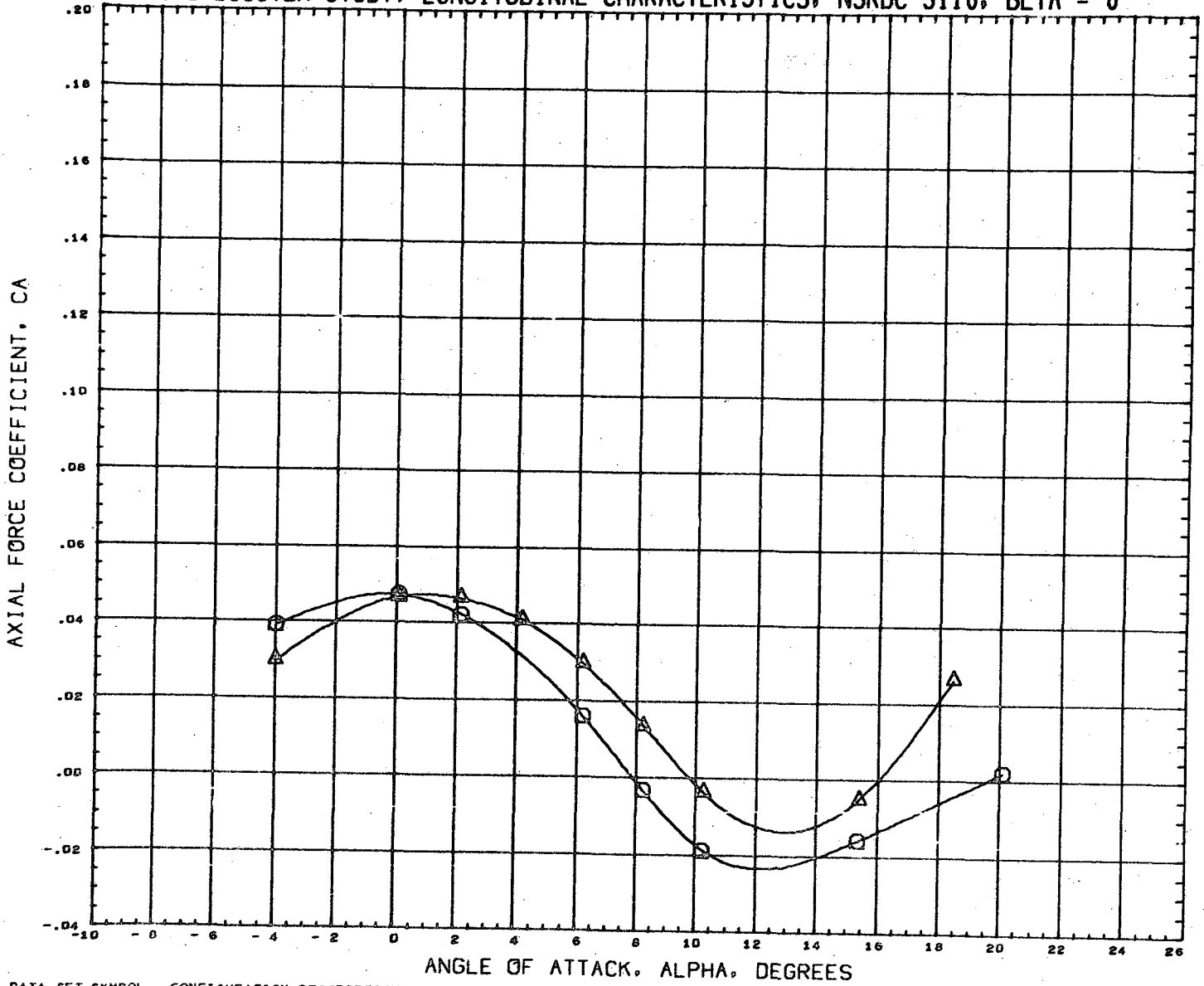
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2001)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2017)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2001)
(RN2017)



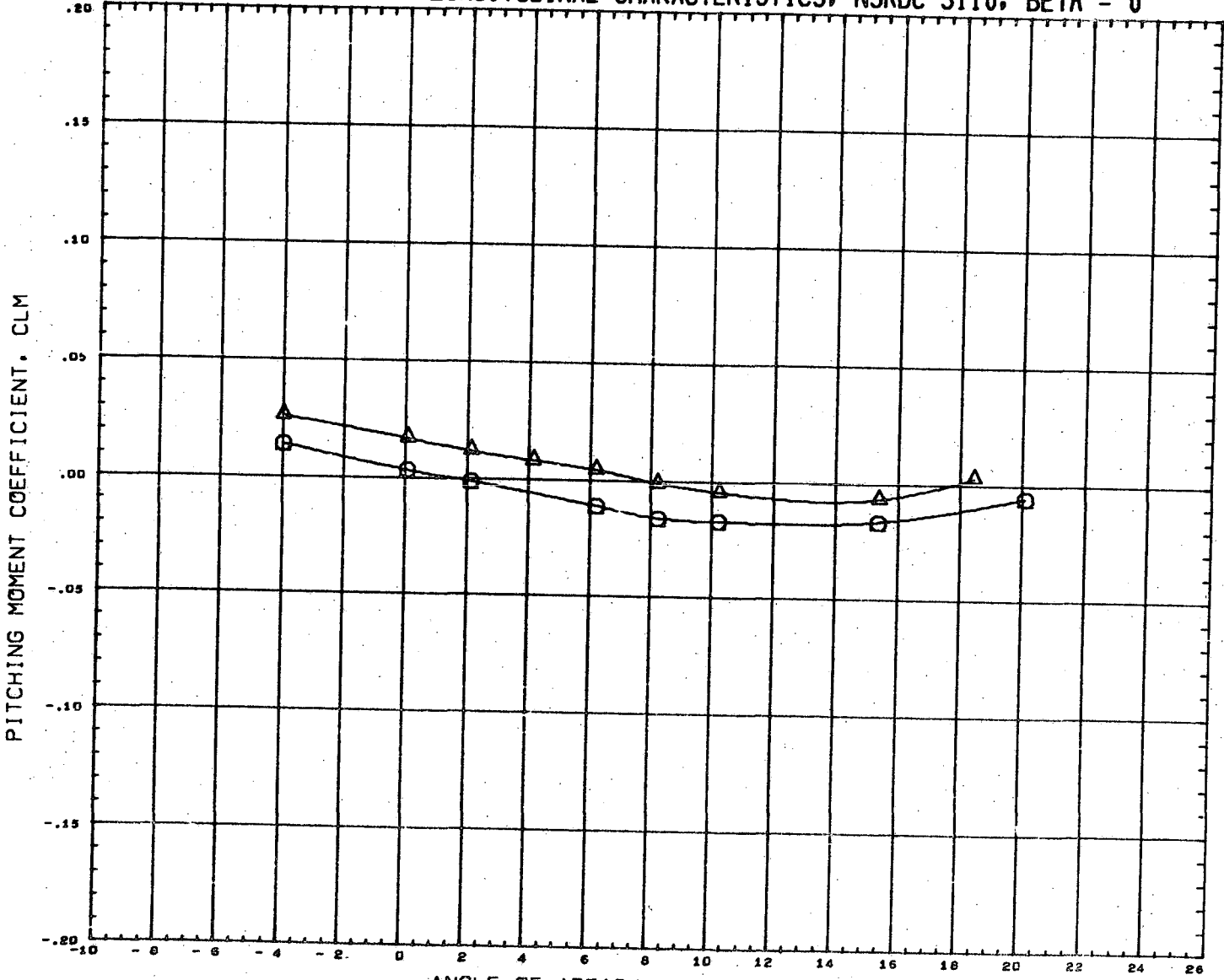
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC 3.000
CNDPOS 1.000
INCIDW 0.000
WNGPOS 1.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.381

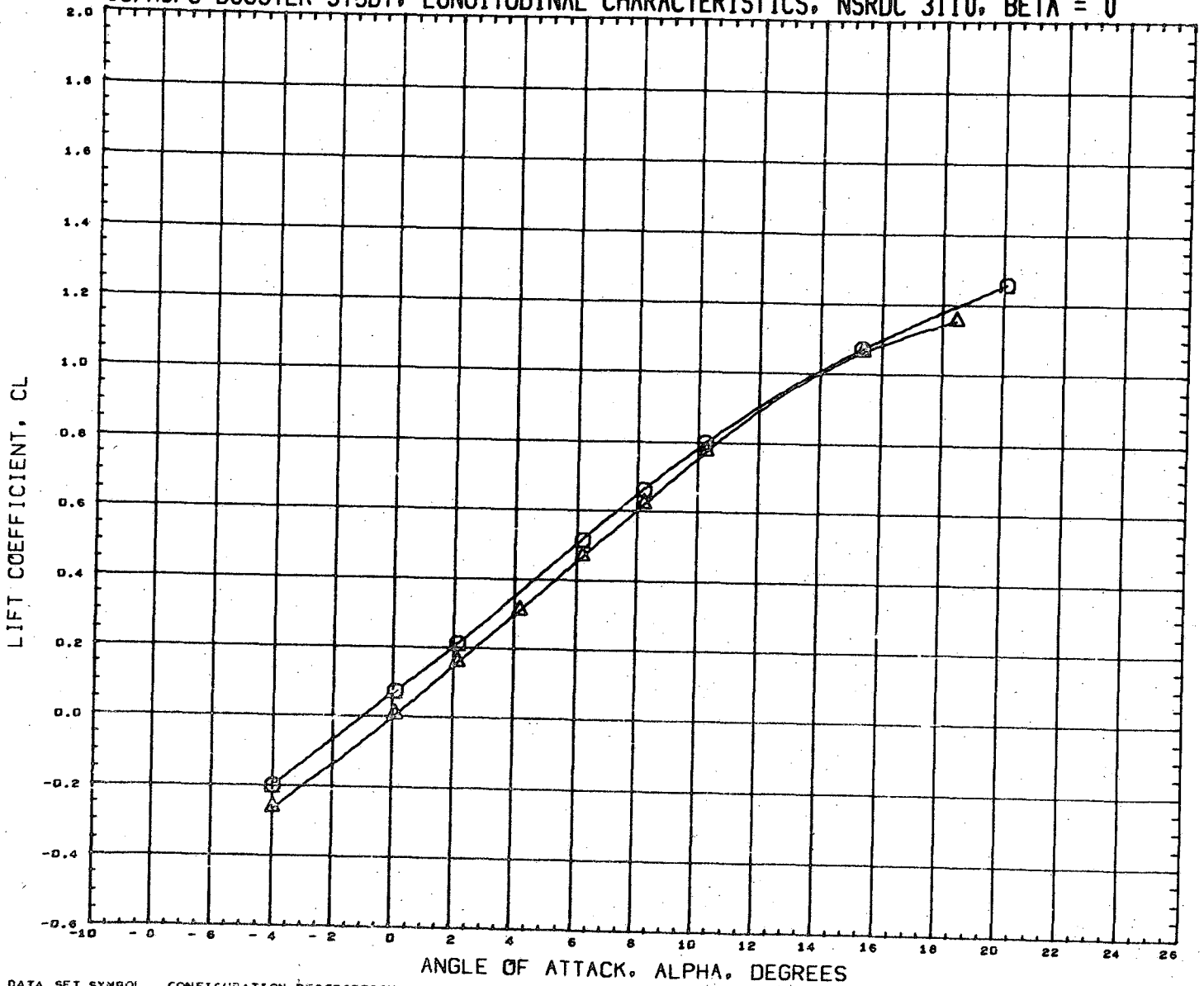
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNSPOS	REFERENCE INFORMATION
(RN2001)	NSRDC-3110,MSFC/LHSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2017)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2001) \circ
(RN2017) \triangle

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

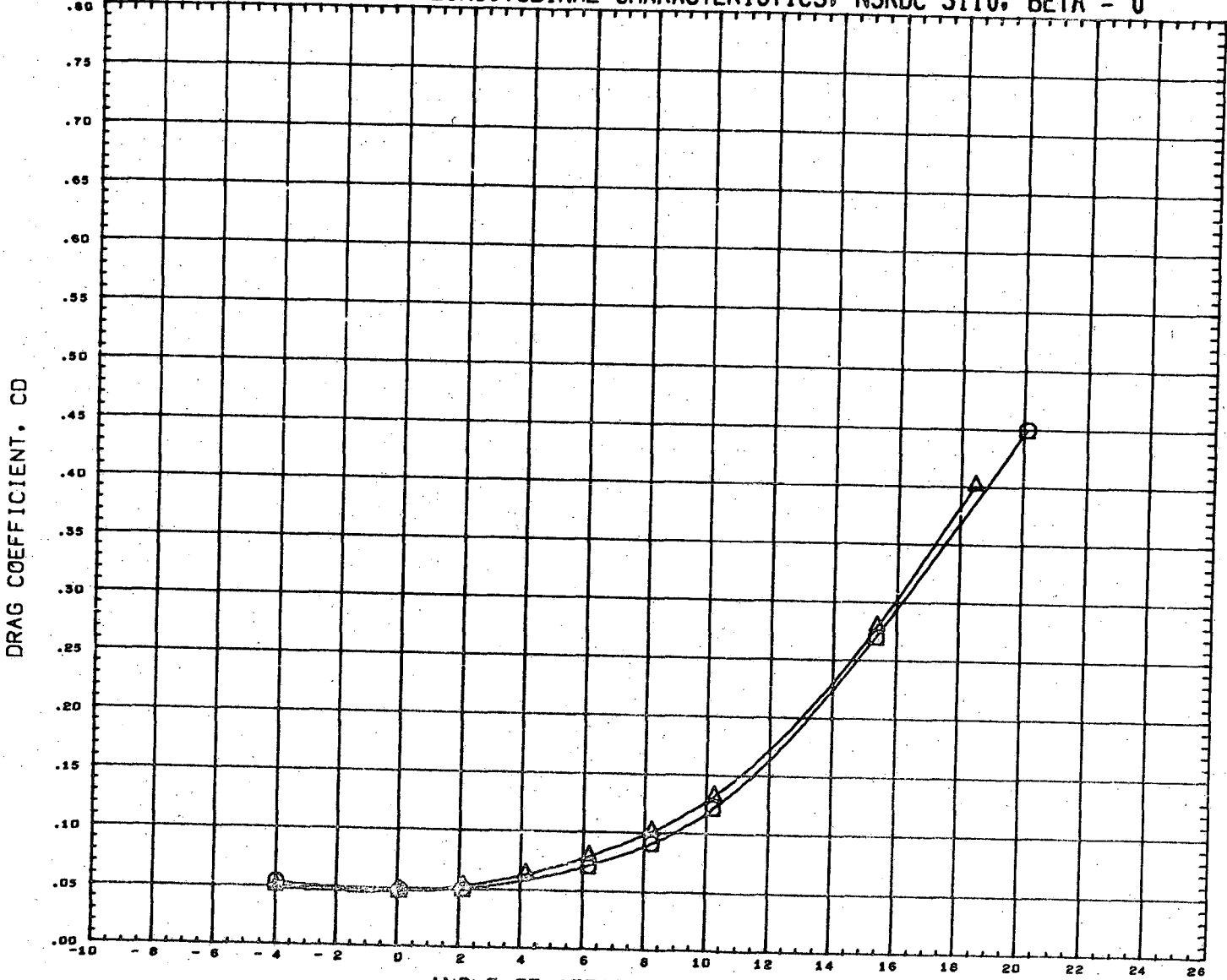
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

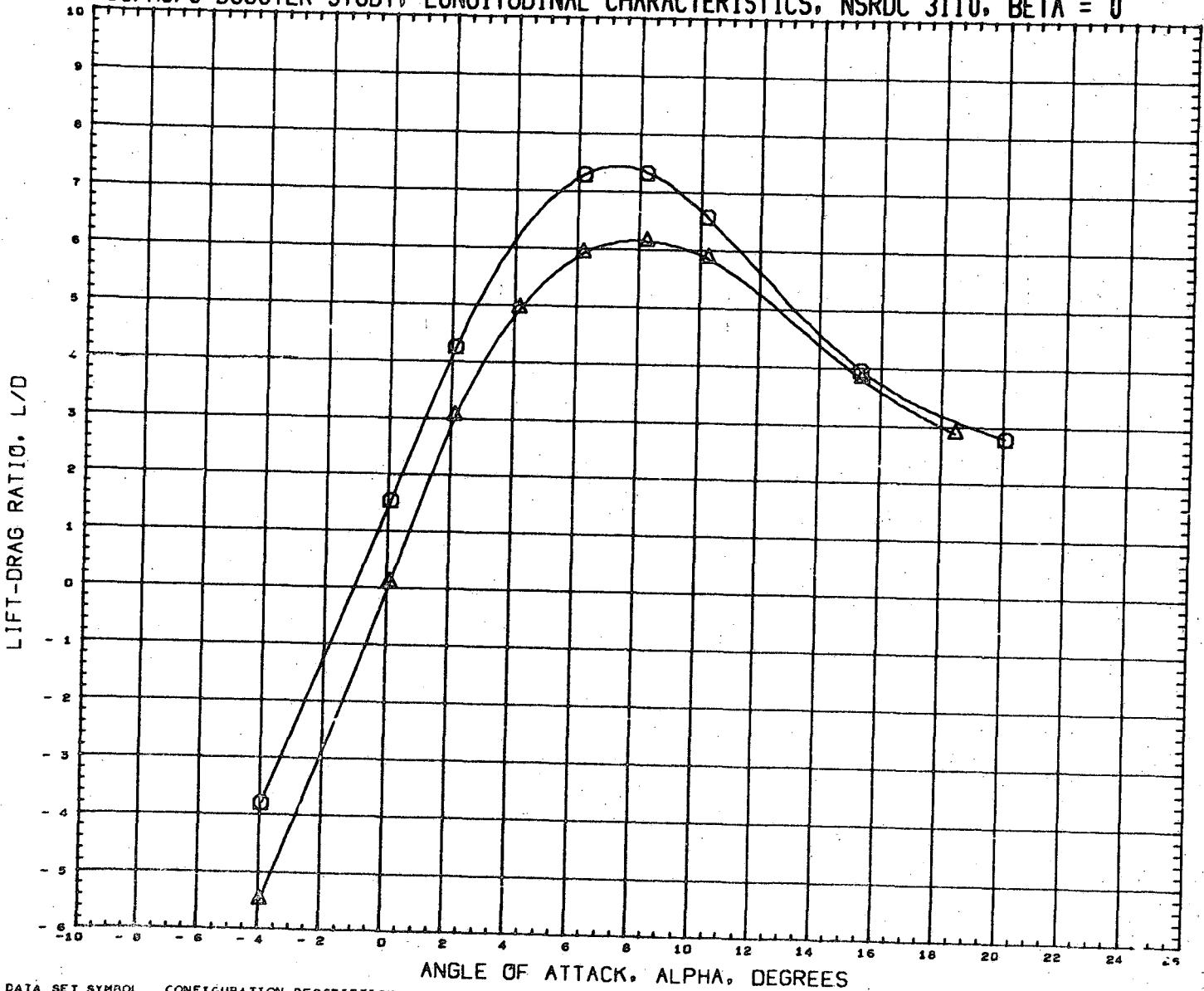


DATA SET SYMBOL (RN2001) (RN2017) CONFIGURATION DESCRIPTION NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1 NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
3.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
3.000	1.000	0.000	2.000	LREF	41.4360 INCHES
				BREF	41.4360 INCHES
				XMRP	31.1400 INCHES
				YMRP	0.0000 INCHES
				ZMRP	0.2250 INCHES
				SCALE	1.5000 PERCENT

MACH 0.381

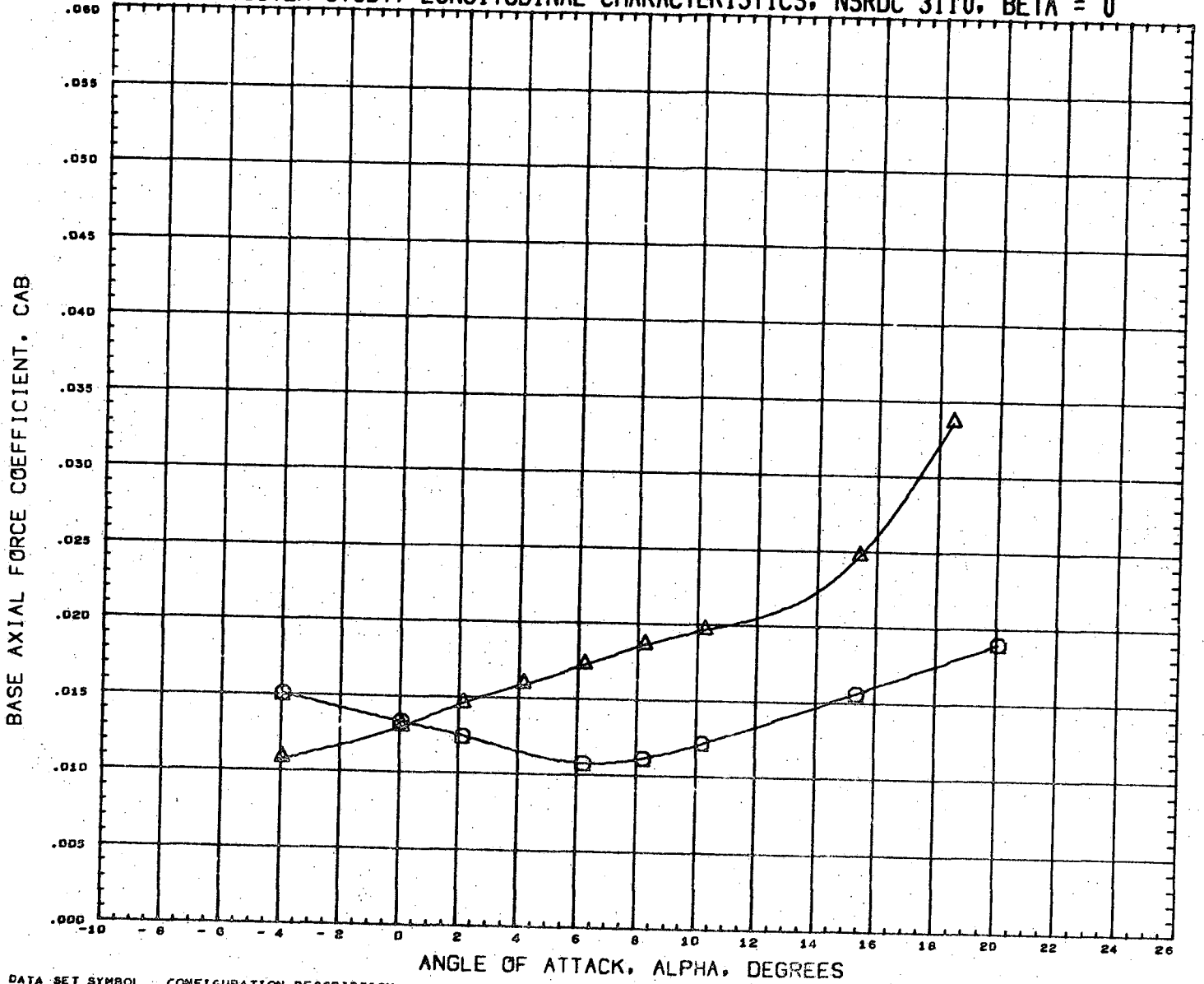
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2001)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2017)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



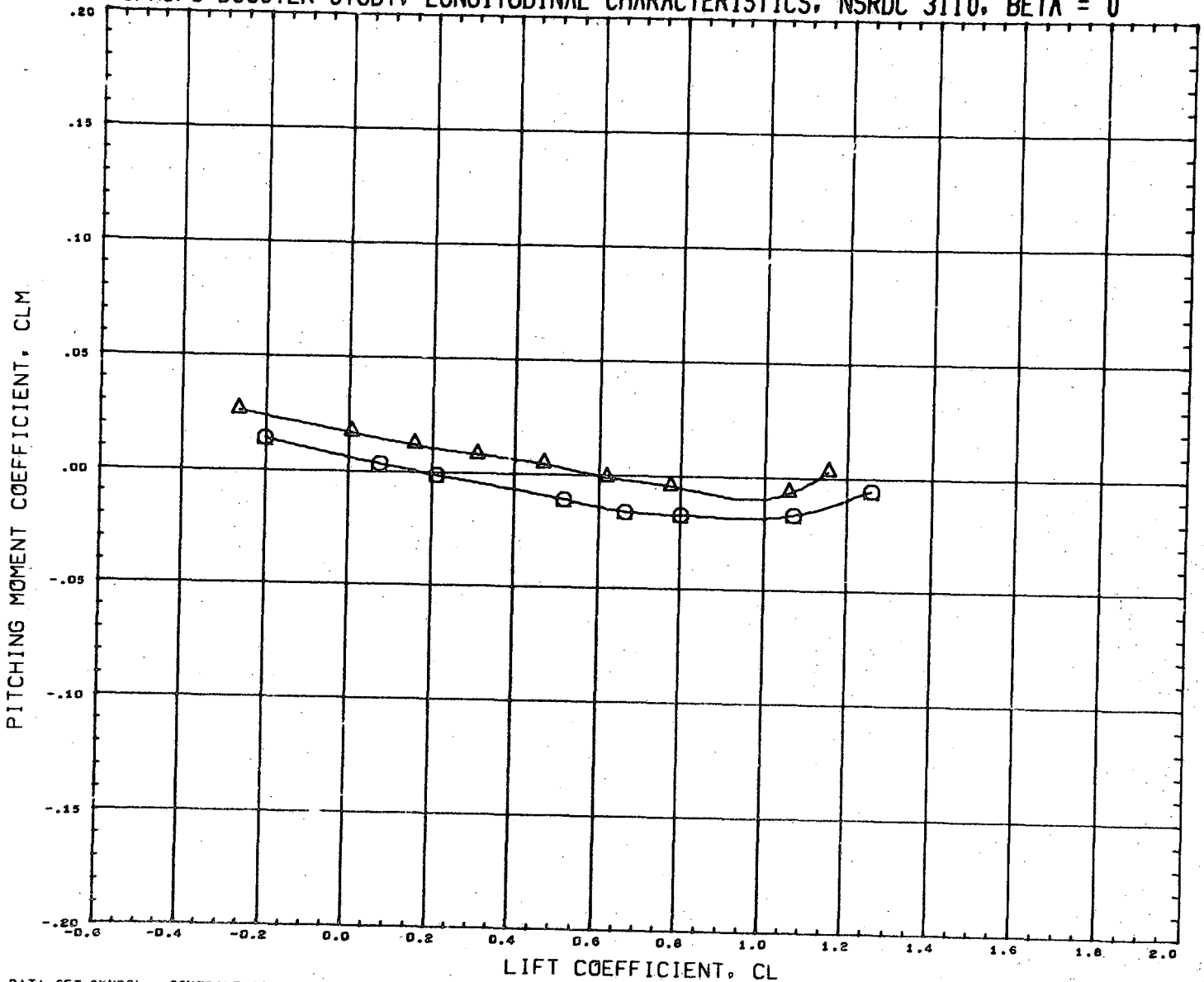
DATA SET SYMBOL : CONFIGURATION DESCRIPTION
 (RN2001) \square NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
 (RN2017) \triangle NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC CNDPOS INCIDW WNGPOS
 3.000 1.000 0.000 1.000
 3.000 1.000 0.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.381

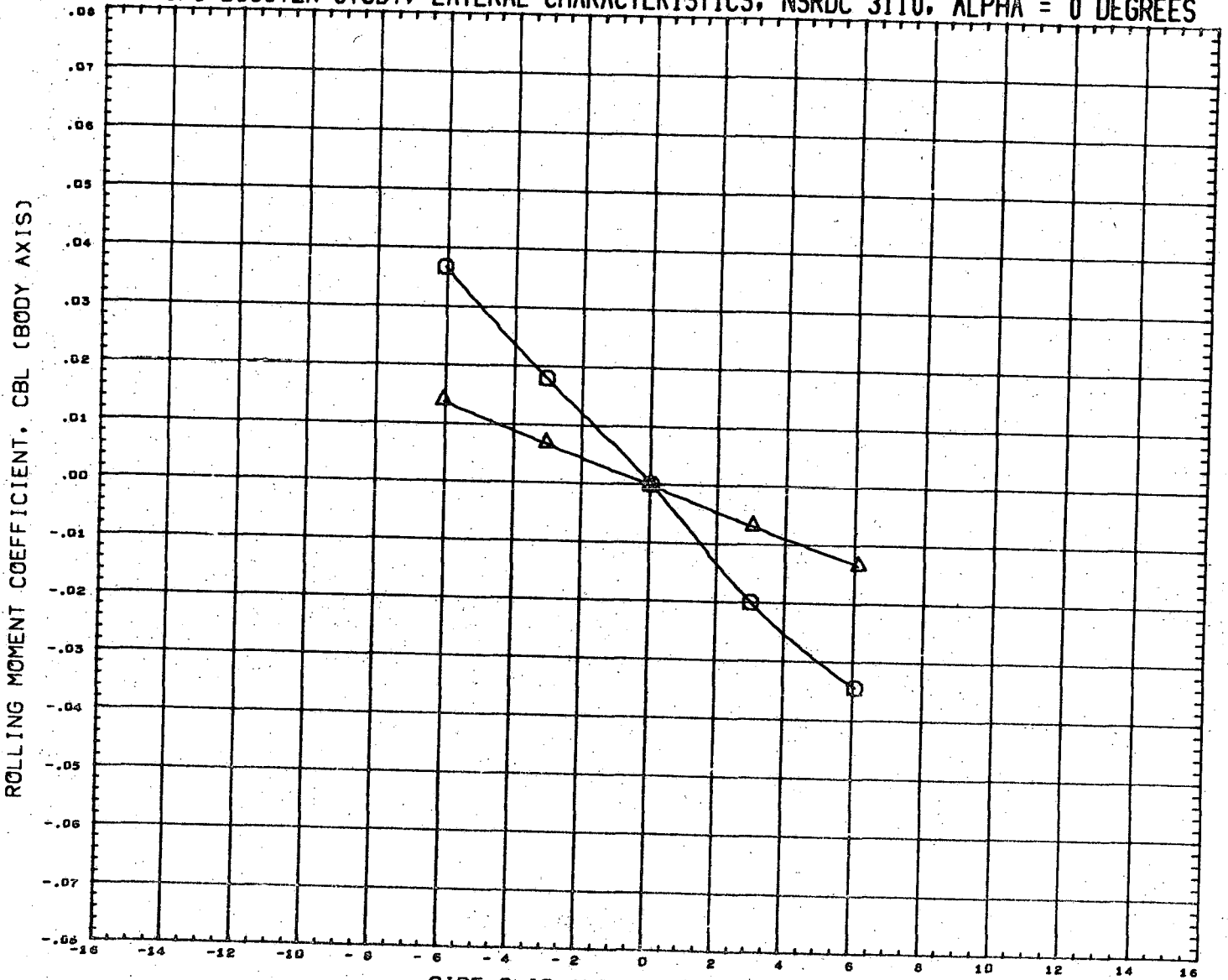
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2001)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2017)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2002) Q
(RN2010) A

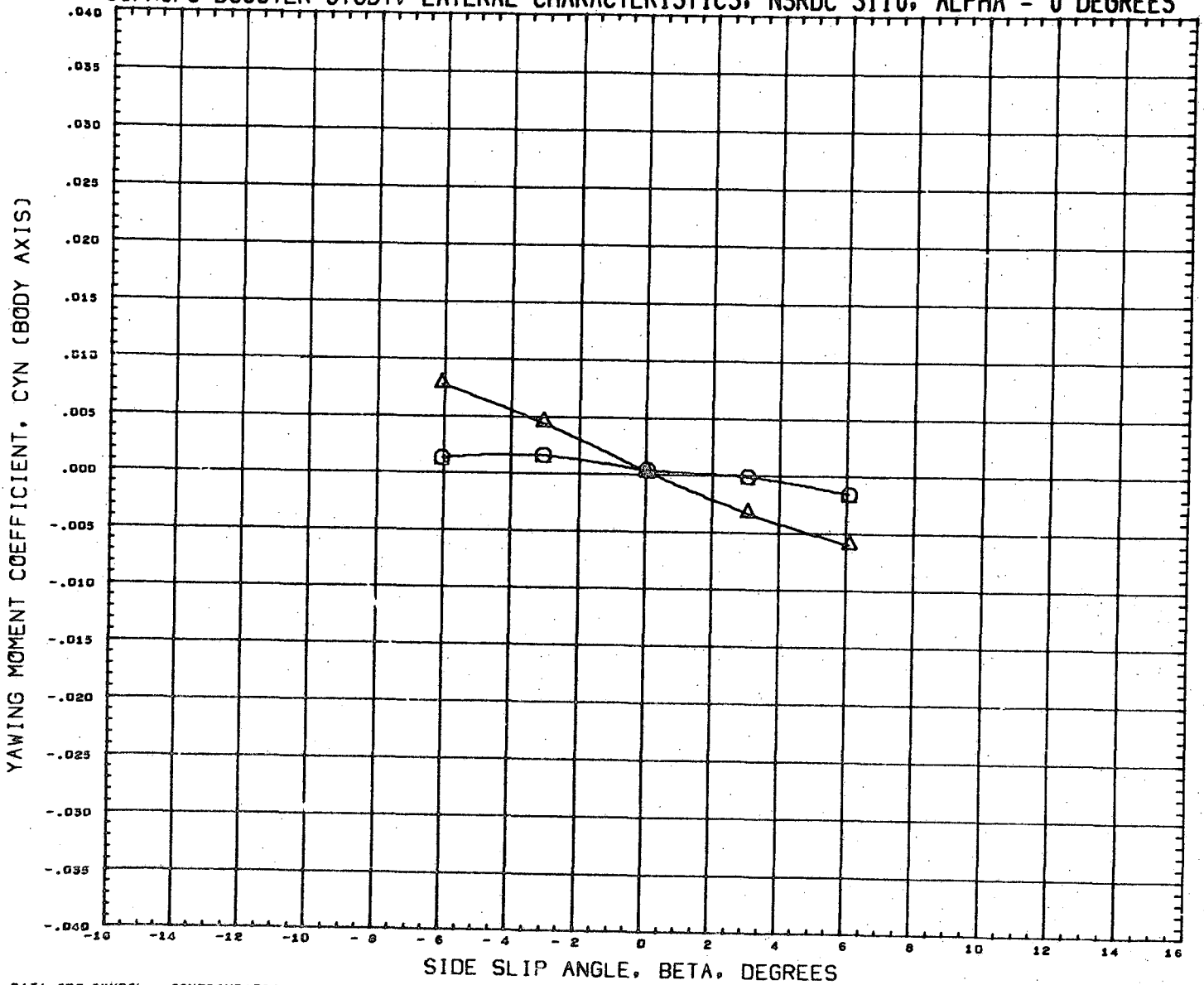
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC 3.000
CNDPOS 1.000
INCIDW 0.000
WNGPOS 1.000
2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.381

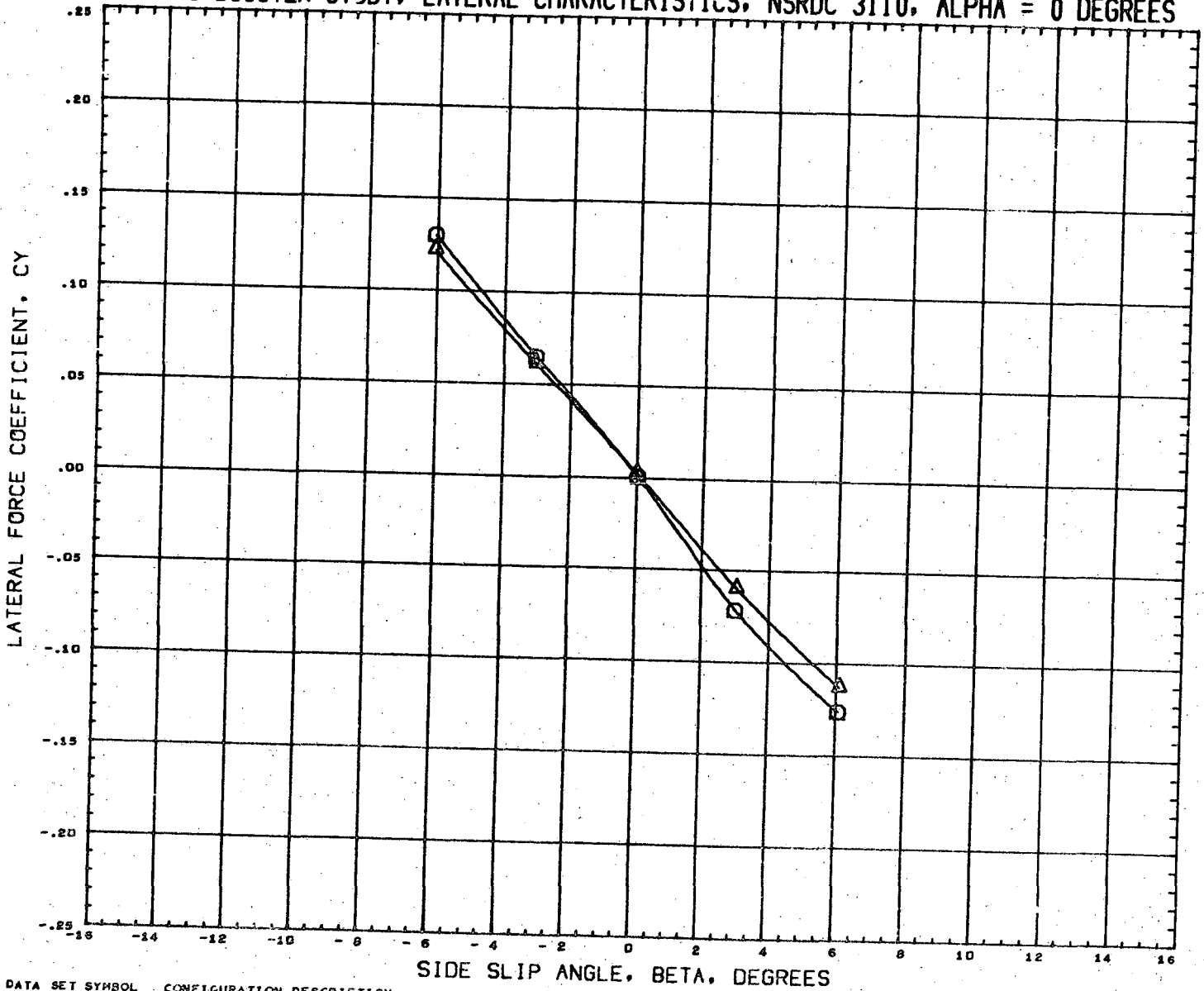
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2002)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2018)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
 (RN2002) 
 (RN2018) 

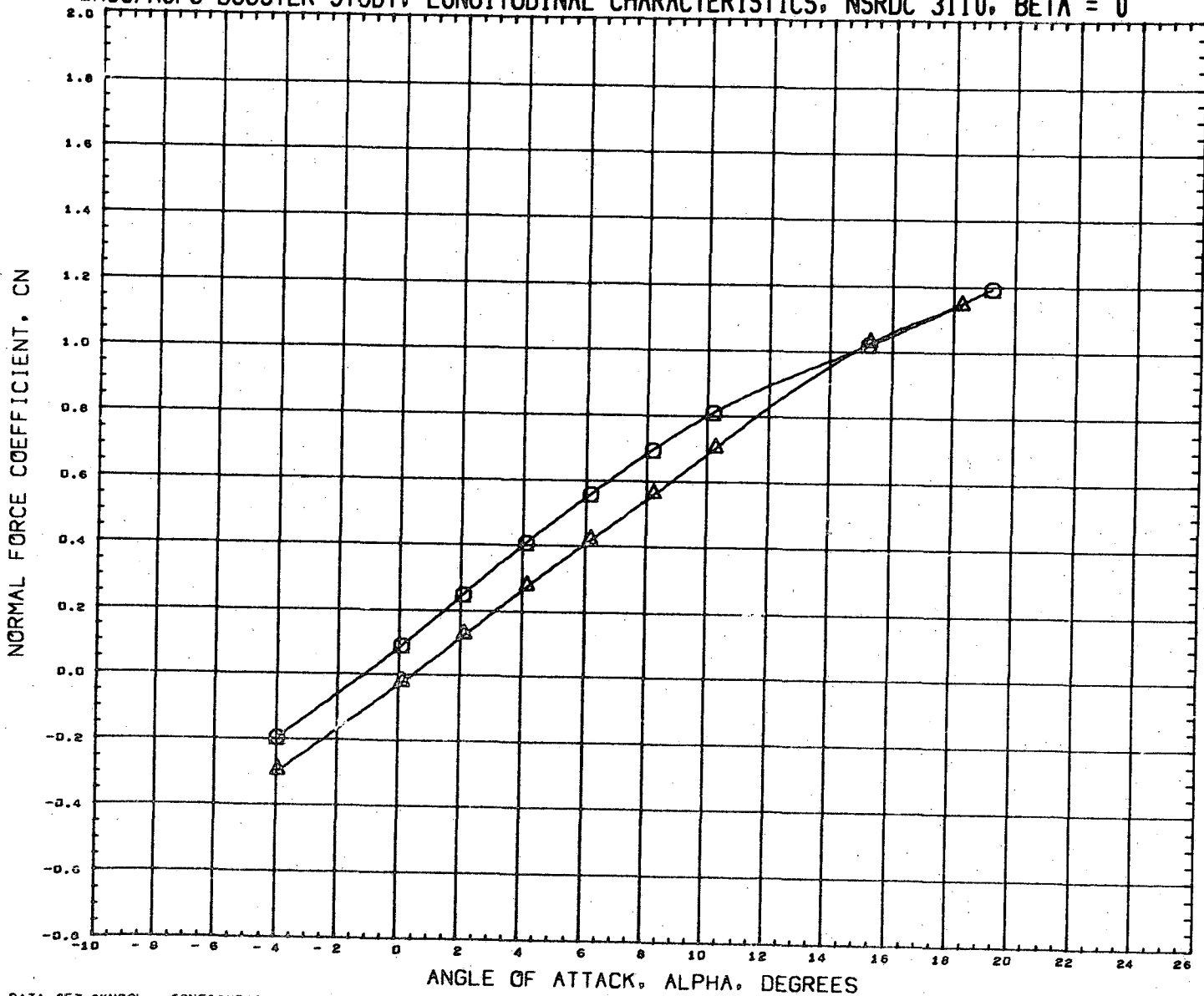
CONFIGURATION DESCRIPTION
 NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
 NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC CNDPOS INCIDW WNGPOS
 3.000 1.000 0.000 1.000
 3.000 1.000 0.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ.FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRF 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2009) □
(RN2025) △

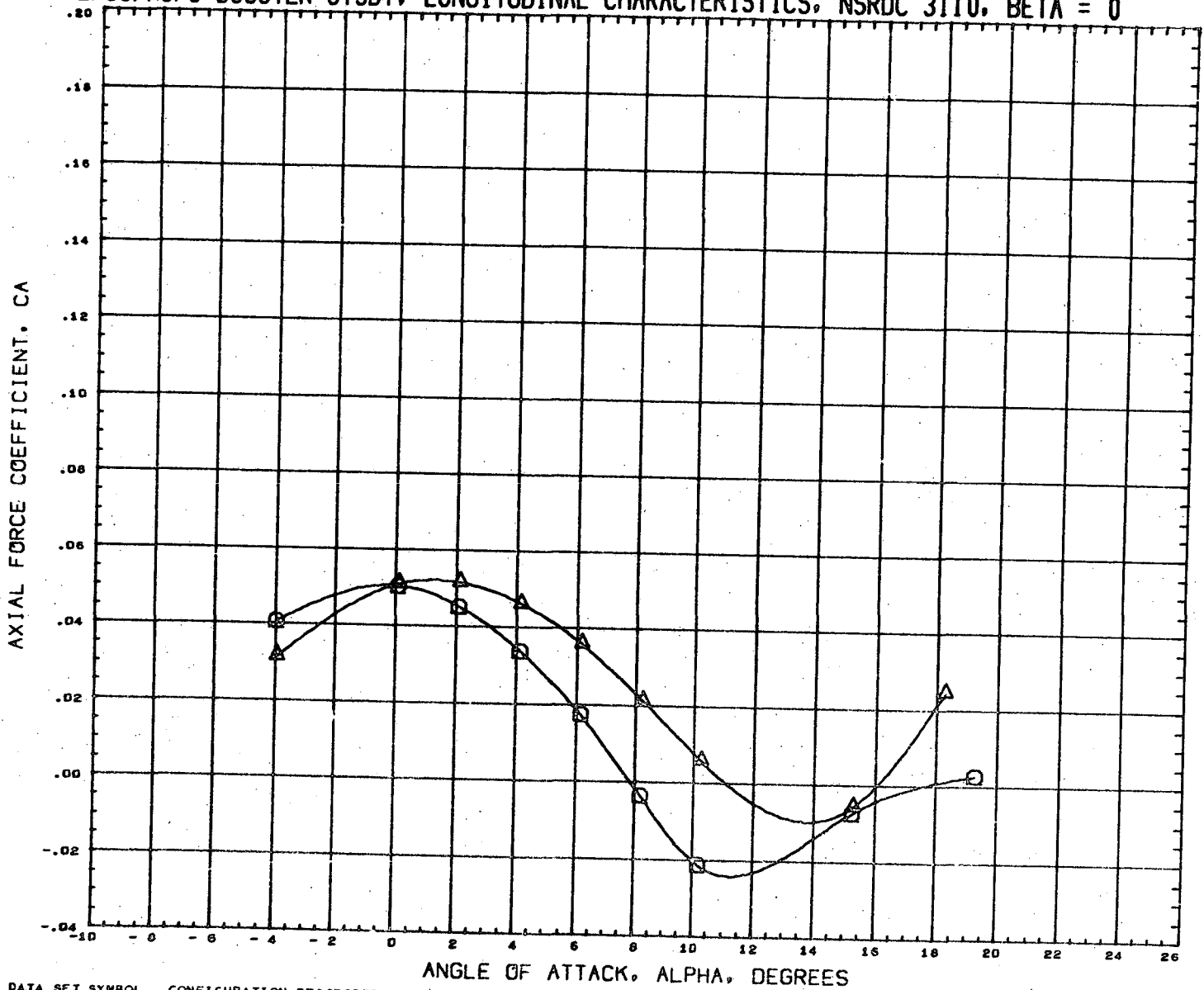
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2009) \circ
 (RN2025) \triangle

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

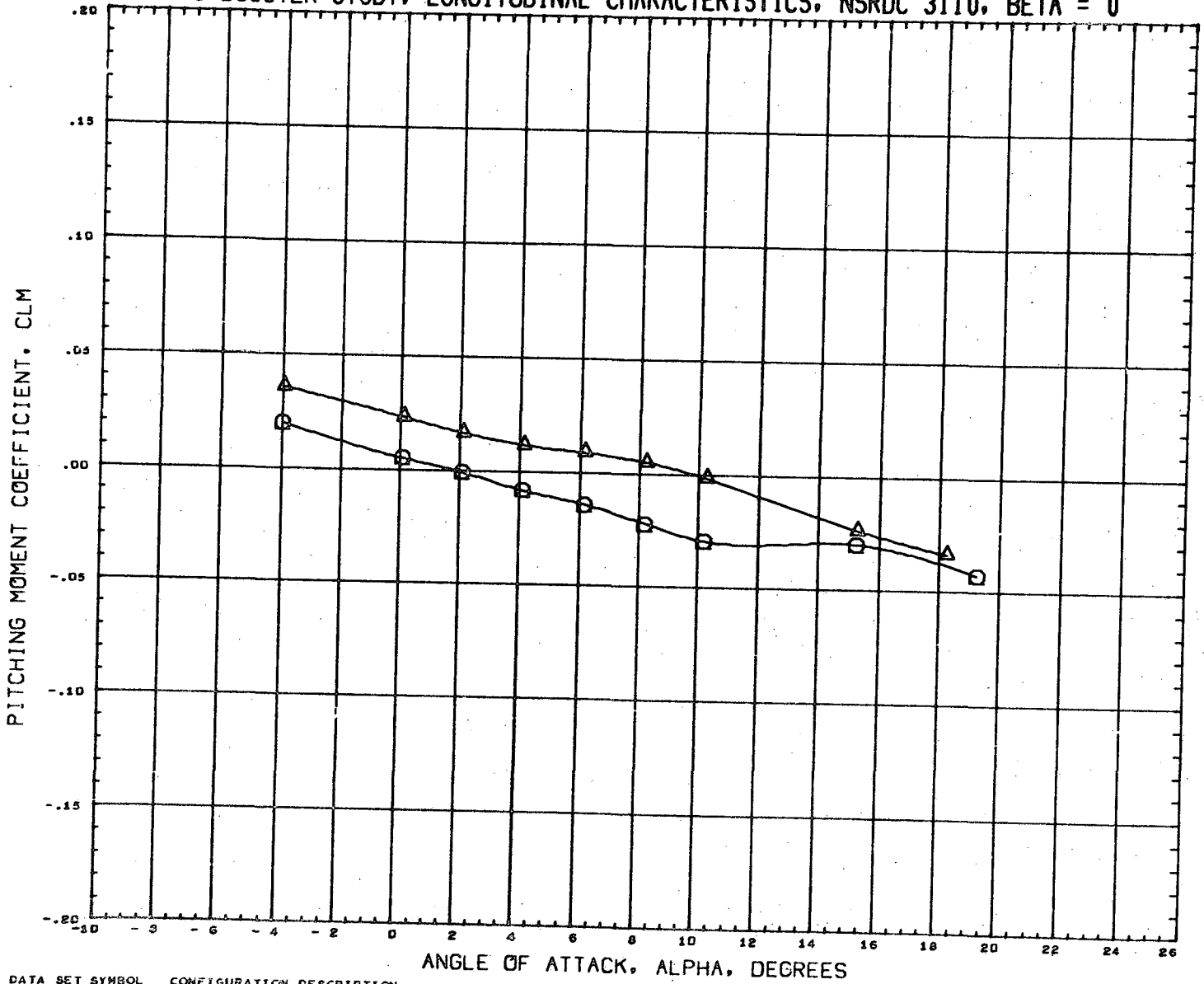
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000



REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRF	0.0000	INCHES
ZMRF	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2009) 
 (RN2025) 

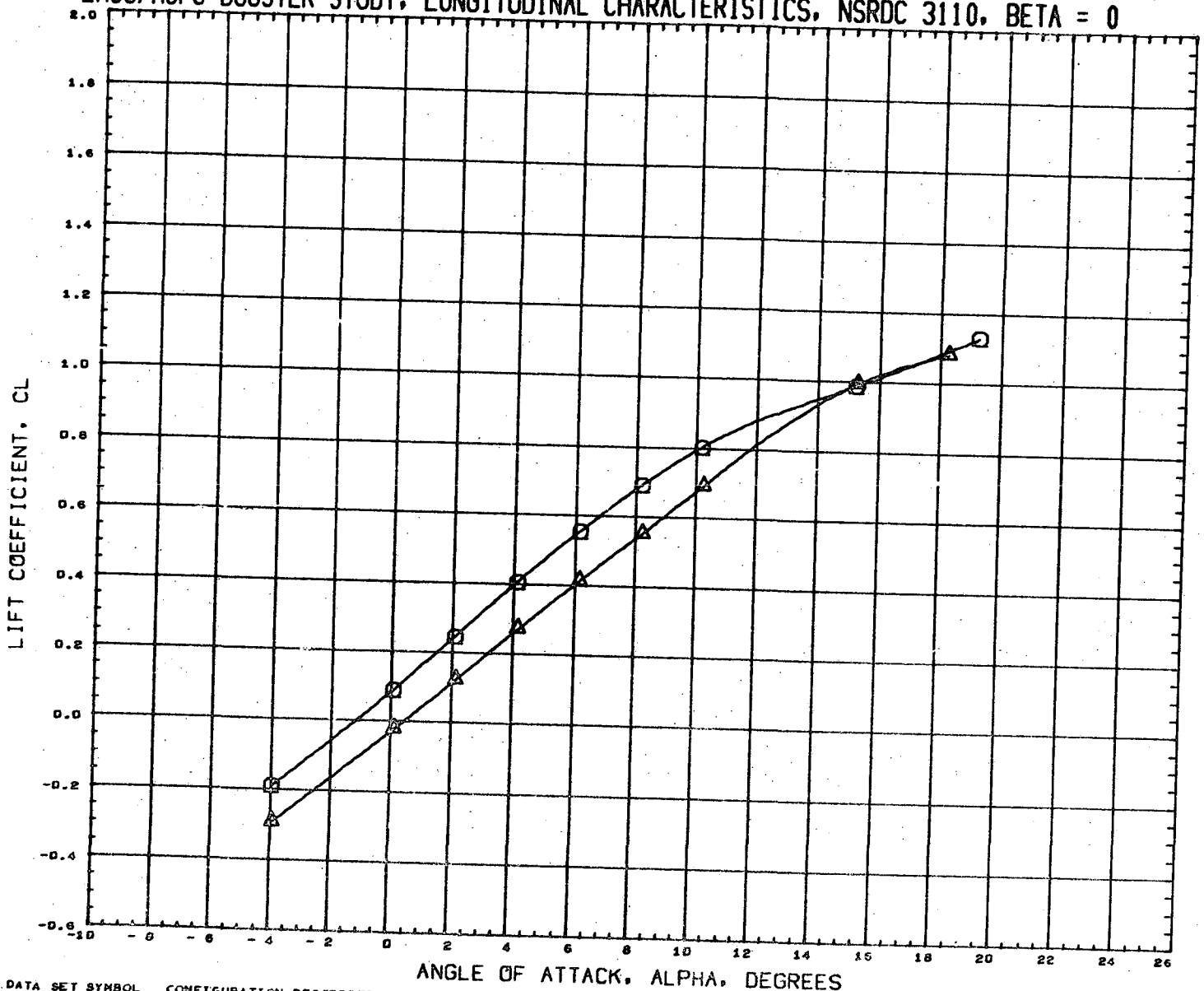
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC CNDPOS INCIDW WNGPOS
 3.000 2.000 0.000 1.000
 3.000 2.000 0.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.301

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2009)
(RN2025)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

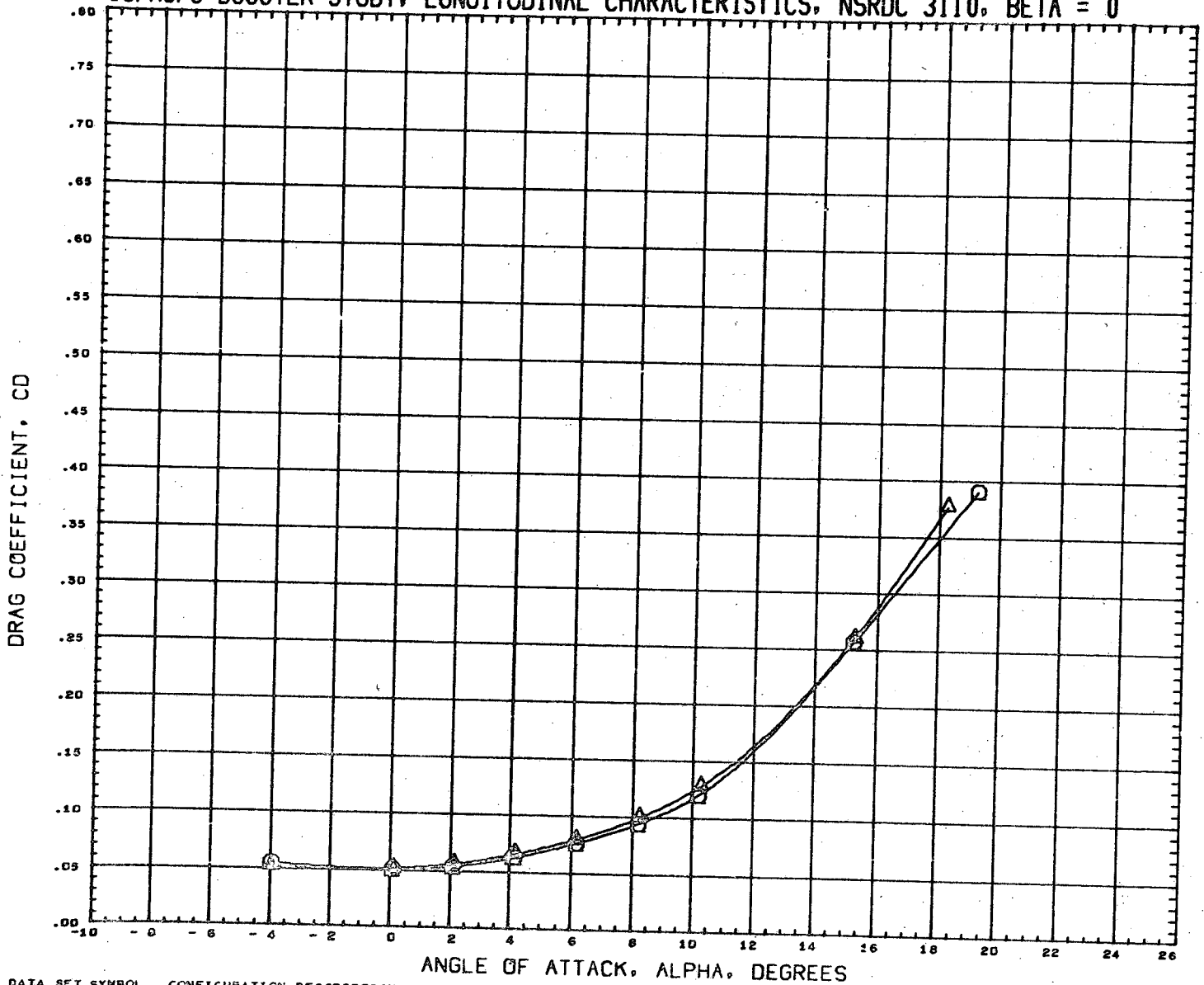
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2009) Q
(RN2025) A

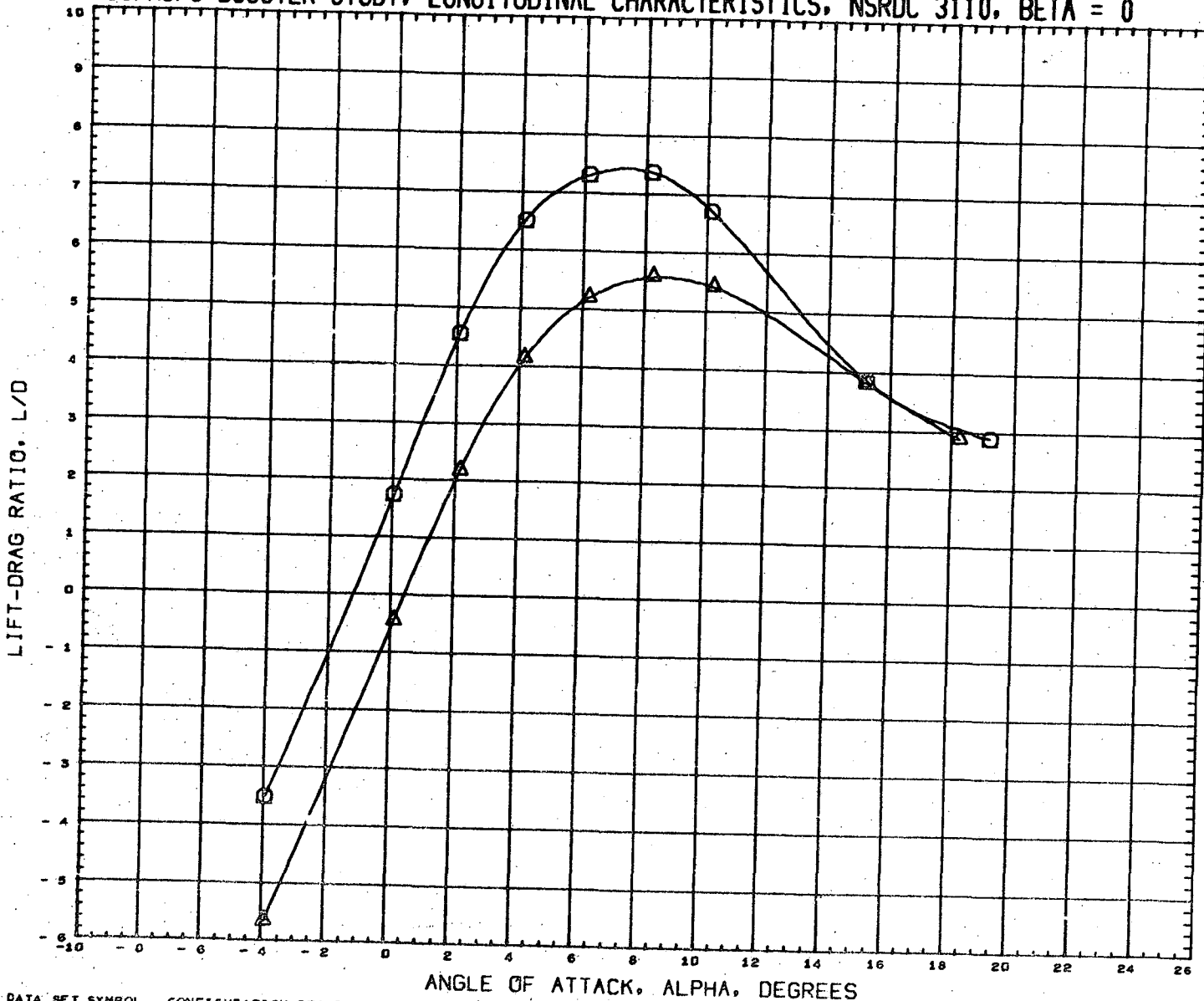
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

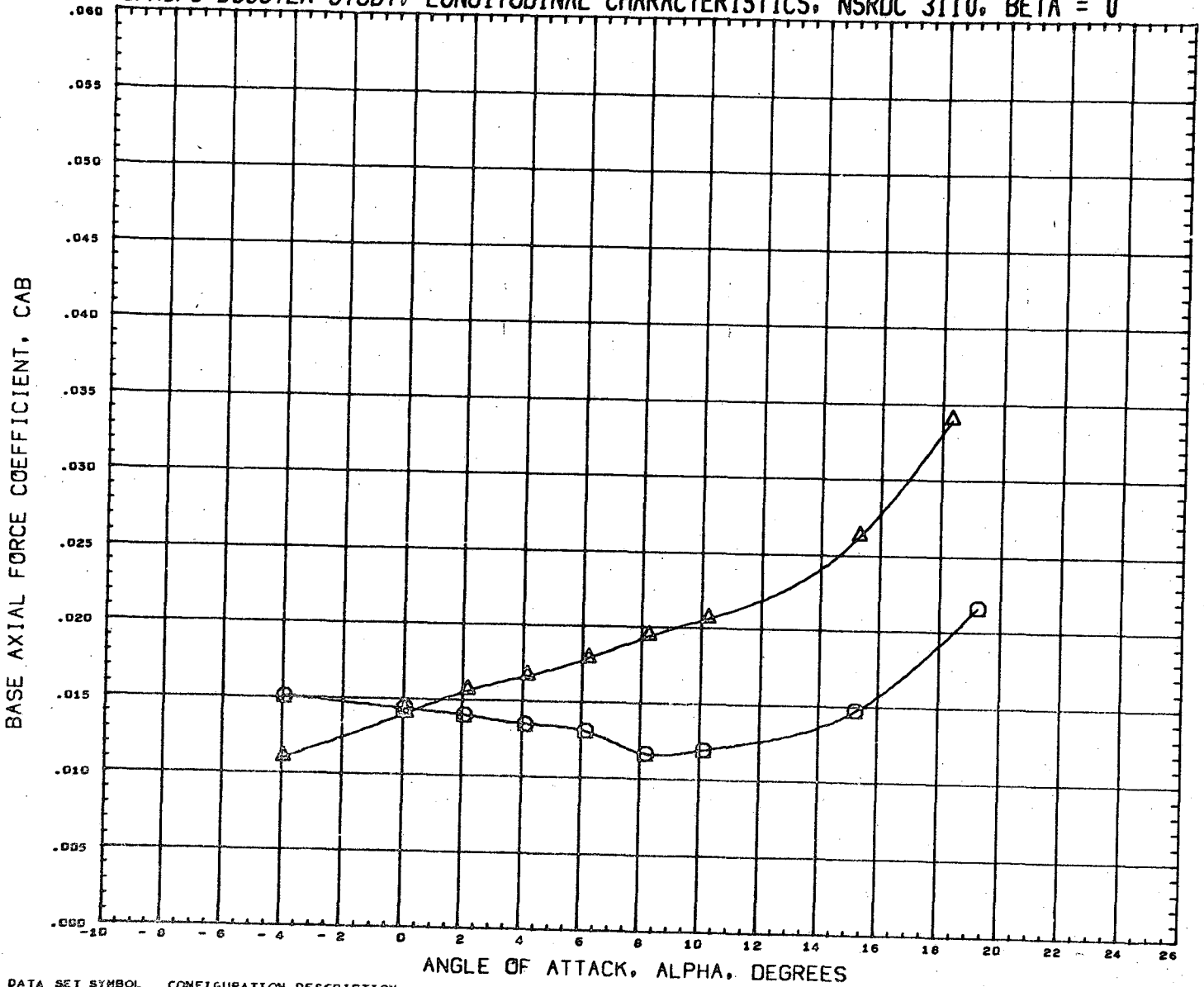


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2009)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2025)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
				BREF 41.4360 INCHES
				XMRF 31.1400 INCHES
				YMRF 0.0000 INCHES
				ZMRF 0.2250 INCHES
				SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



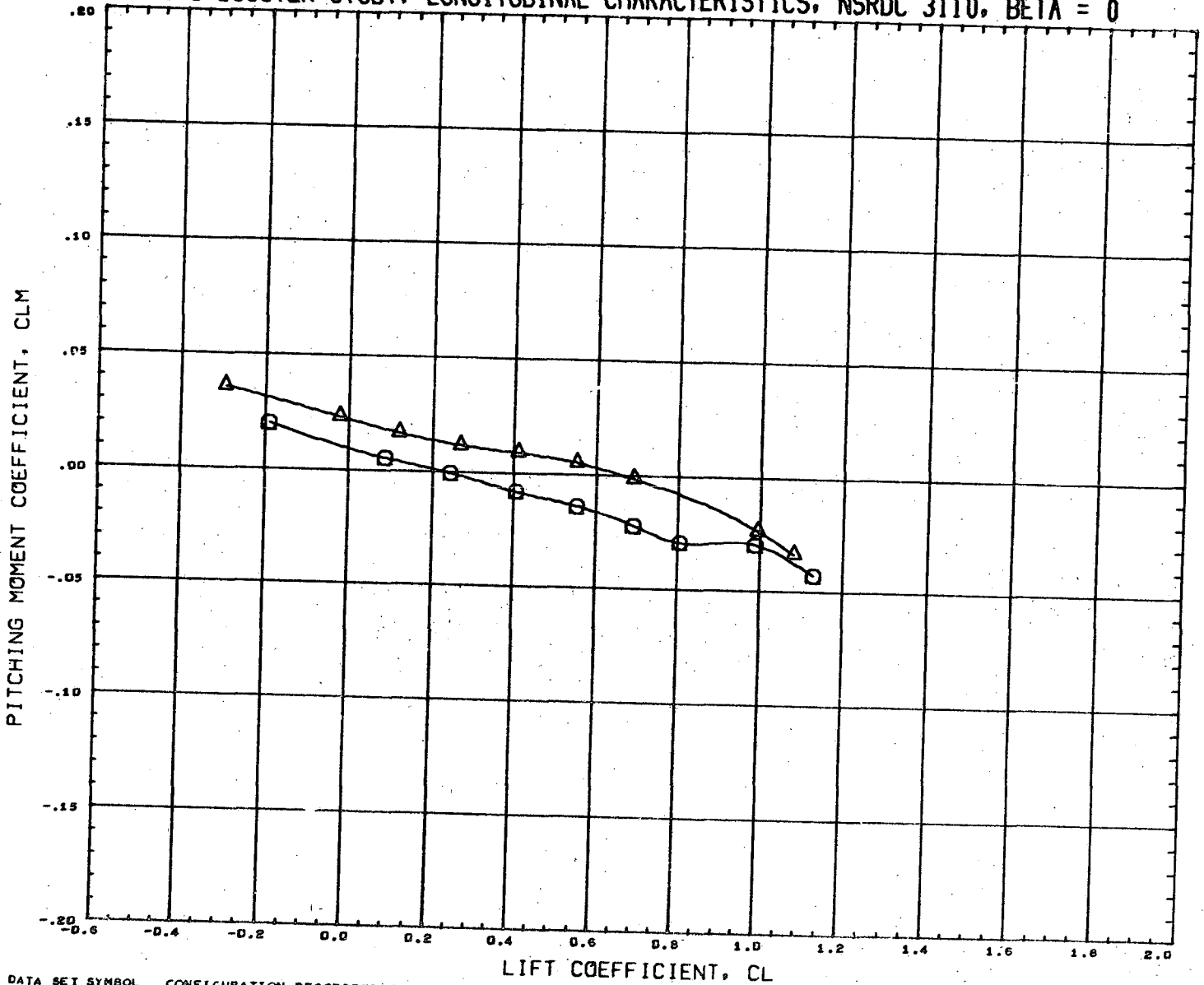
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2009)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2025)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1


INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

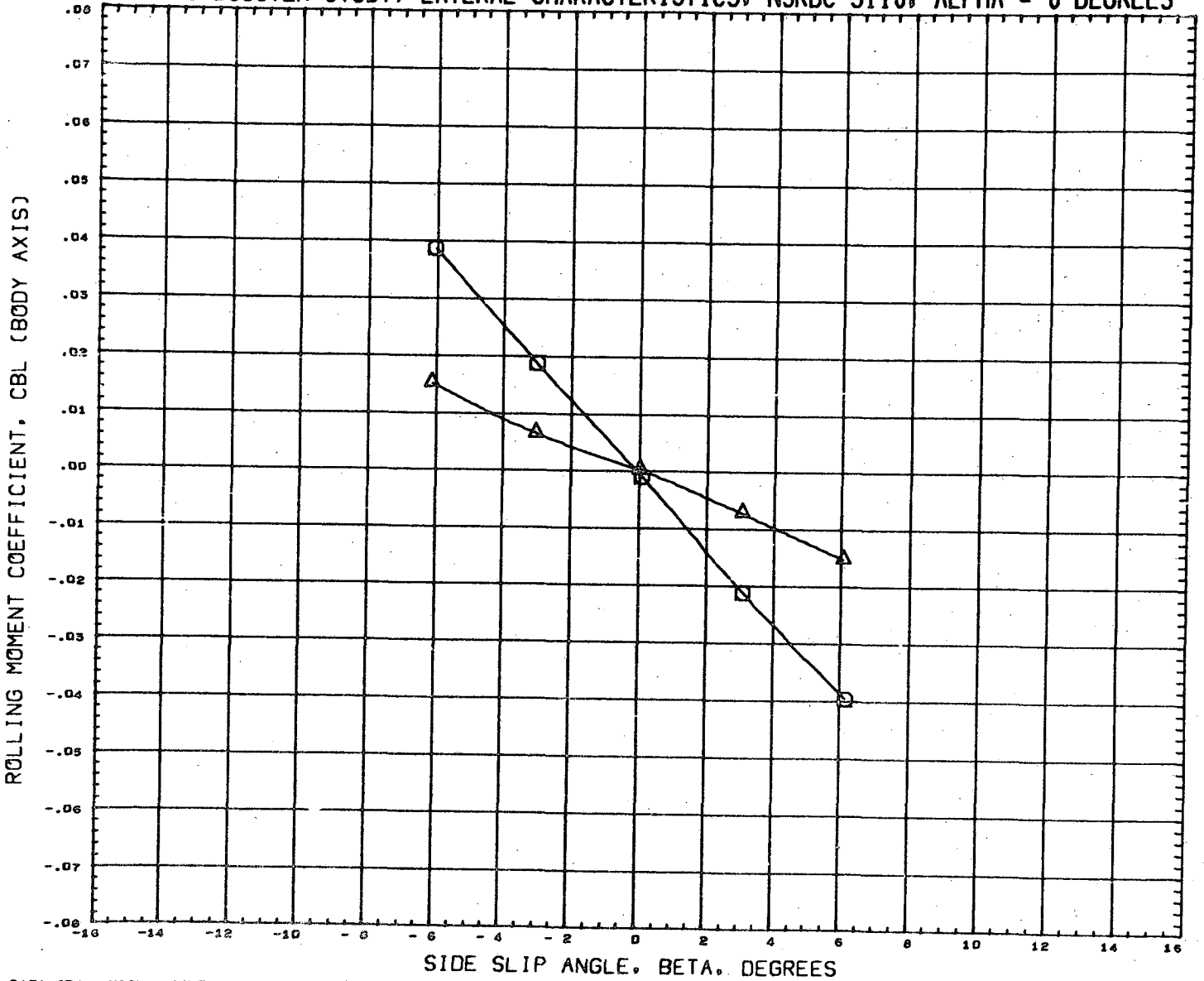


DATA SET SYMBOL (RM2009) (RM2025)  CONFIGURATION DESCRIPTION NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1 NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
				BREF 41.4360 INCHES
				XMRP 31.1400 INCHES
				YMRP 0.0000 INCHES
				ZMRP 0.2250 INCHES
				SCALE 1.5000 PERCENT

MACH 0.361

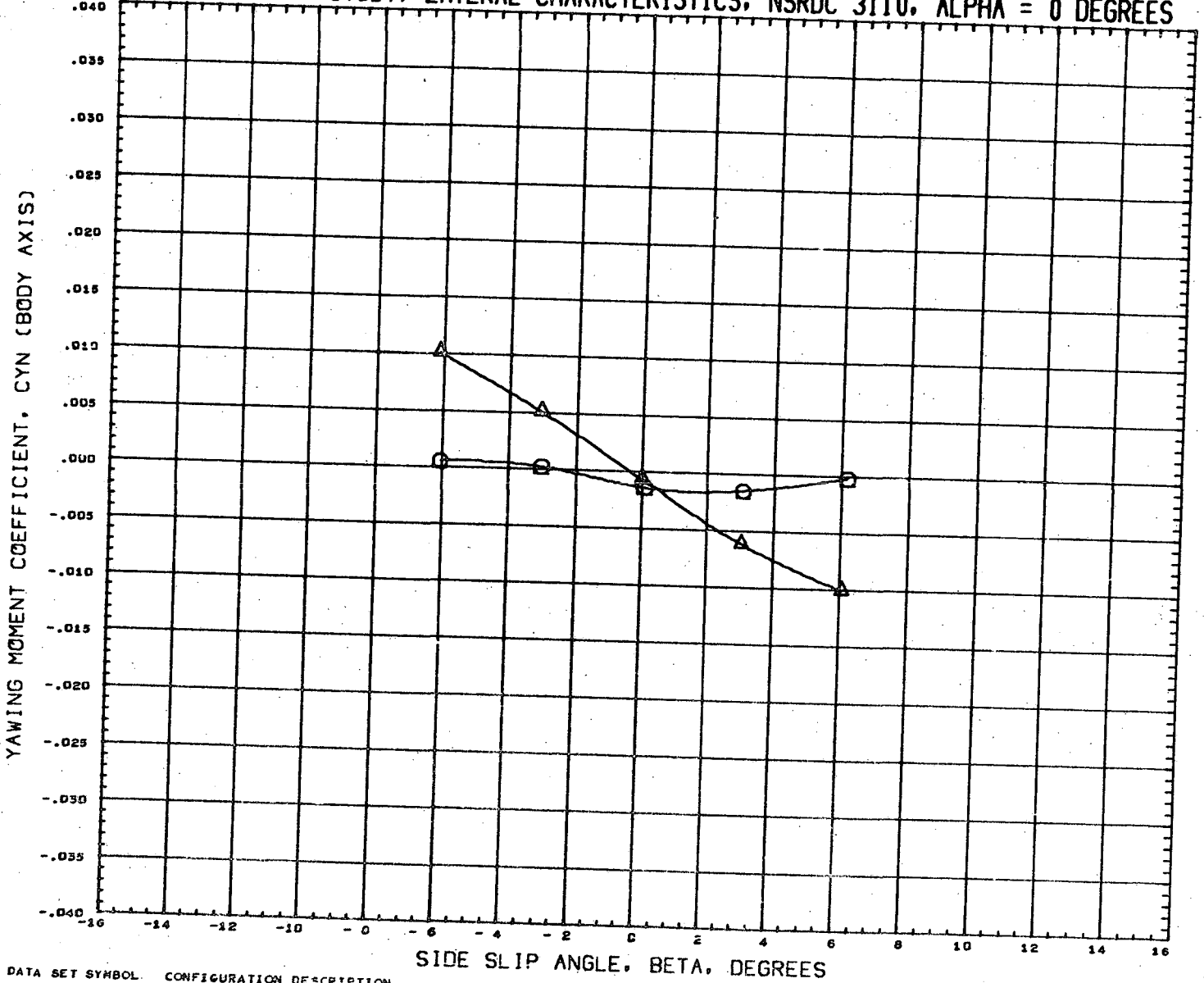
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2010) □	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2026) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.392

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



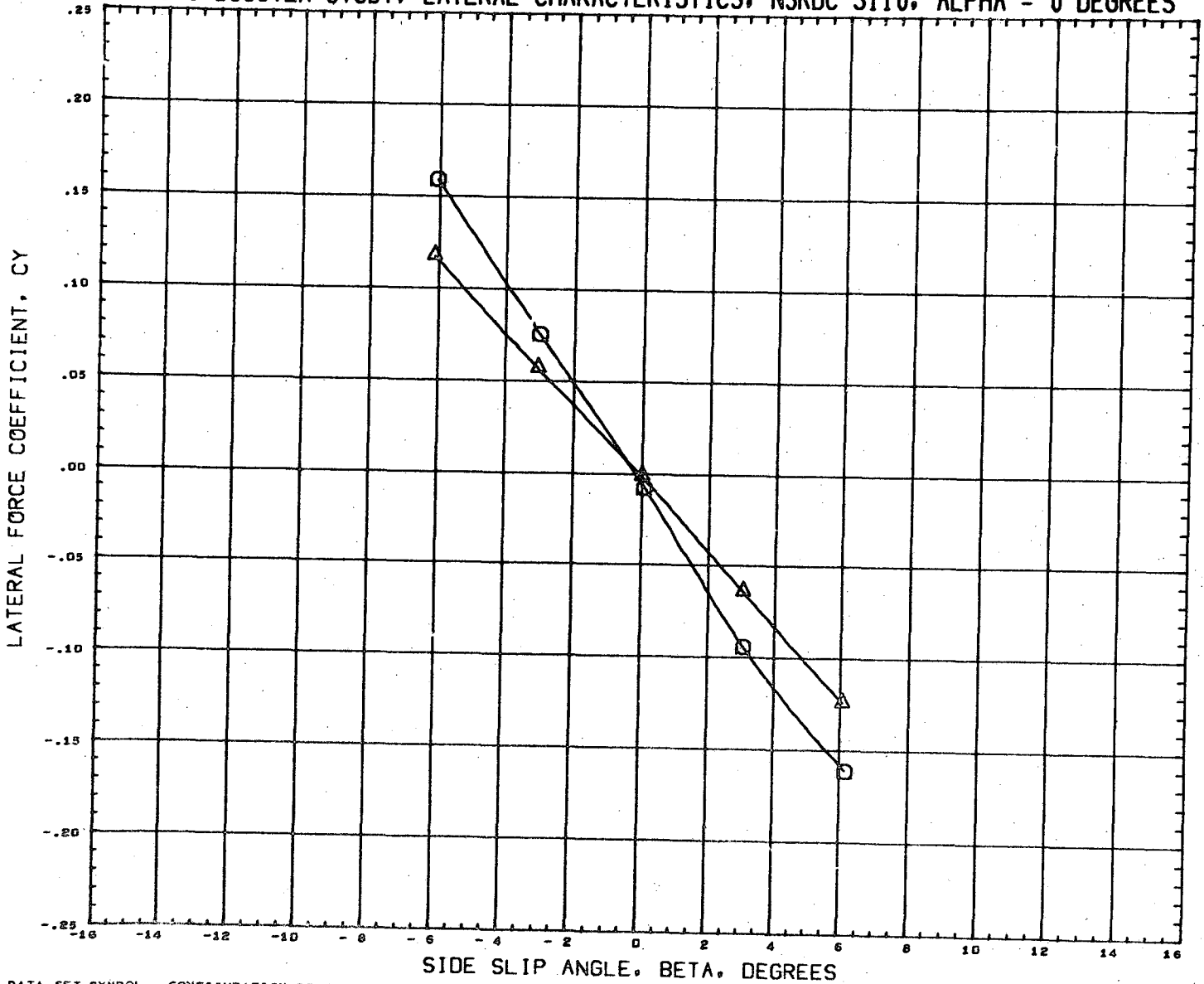
DATA SET SYMBOL (RN2010) (RN2026) CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC 3.000
 CNDPOS 2.000
 INCIDW 0.000
 WNGPOS 1.000
 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ.FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2010)
(RN2026)



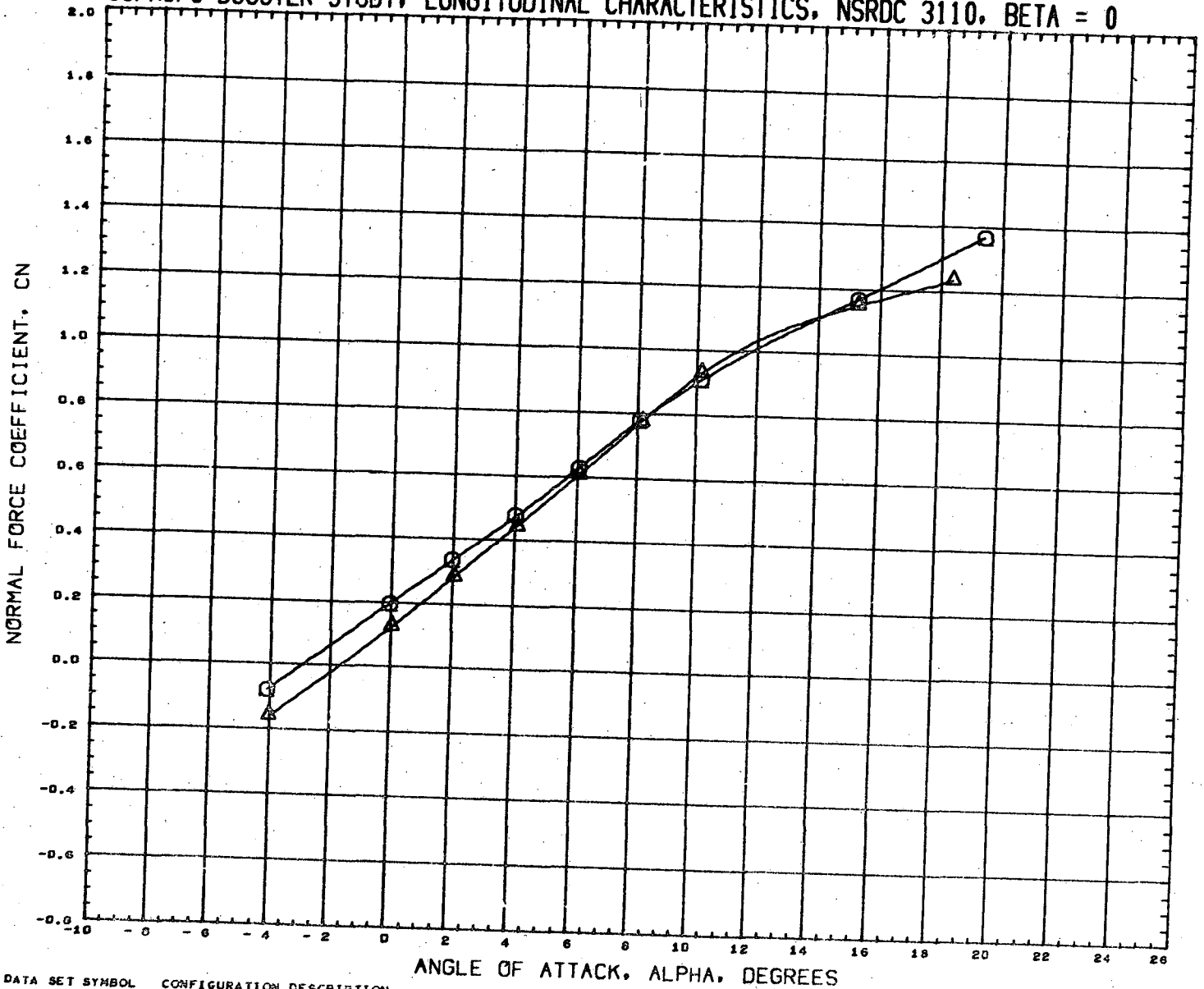
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, HSFC/LHSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCNT

MACH 0.382

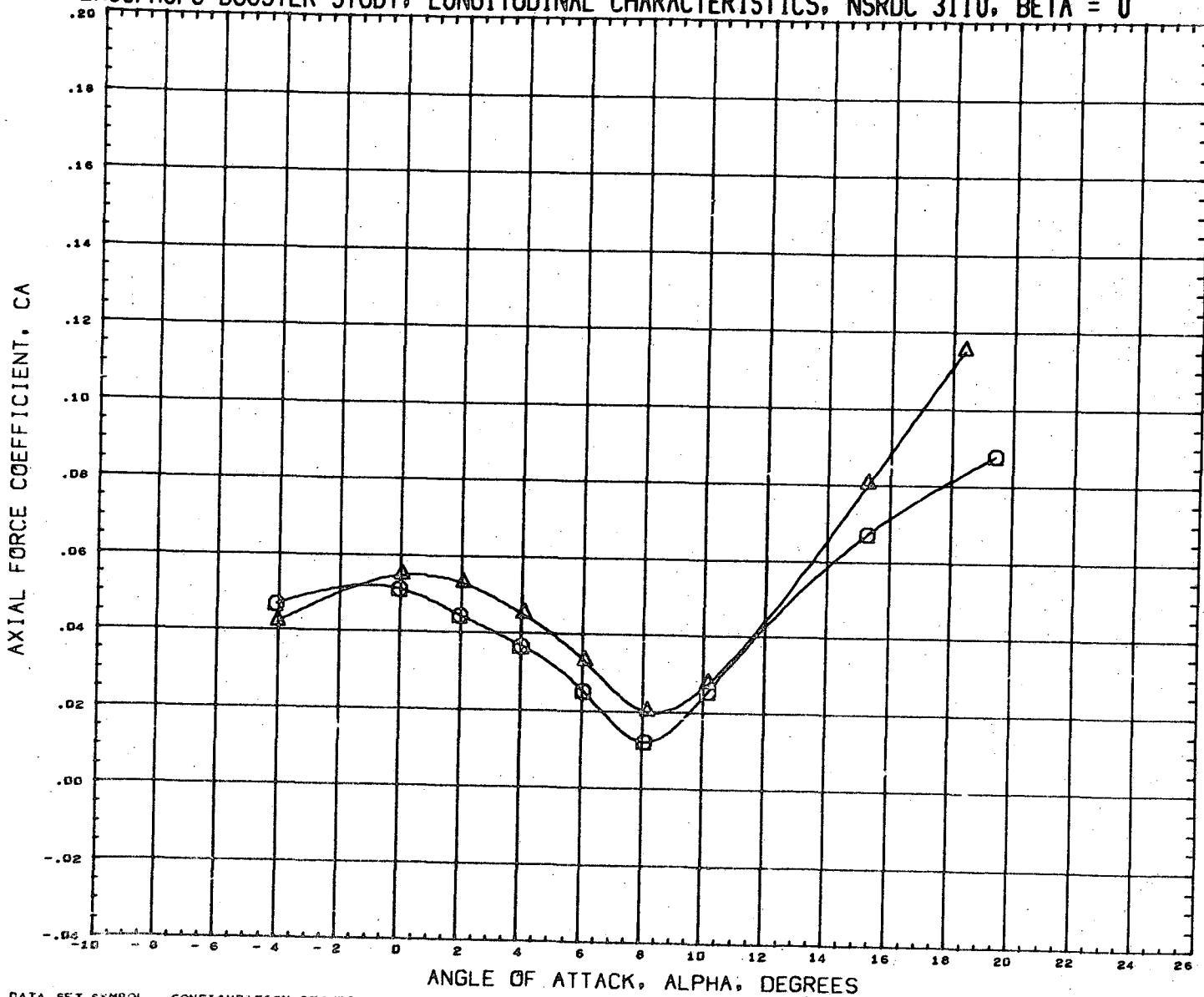
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2225)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2241)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRR 31.1400 INCHES
						YMRR 0.0000 INCHES
						ZMRR 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.361

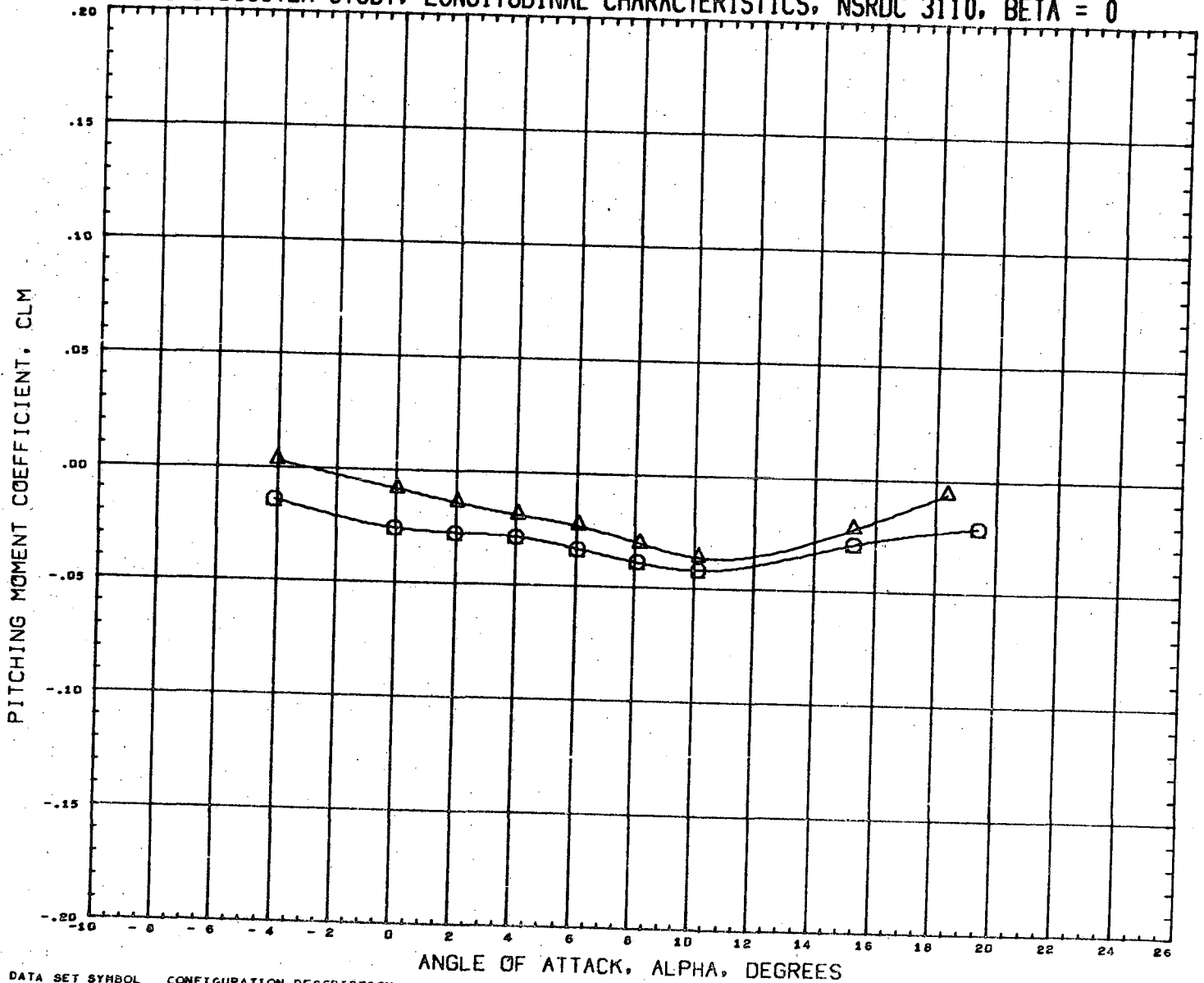
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2225)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2241)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XHRF 31.1400 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2225) ○
 (RN2241) △

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1
 NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1

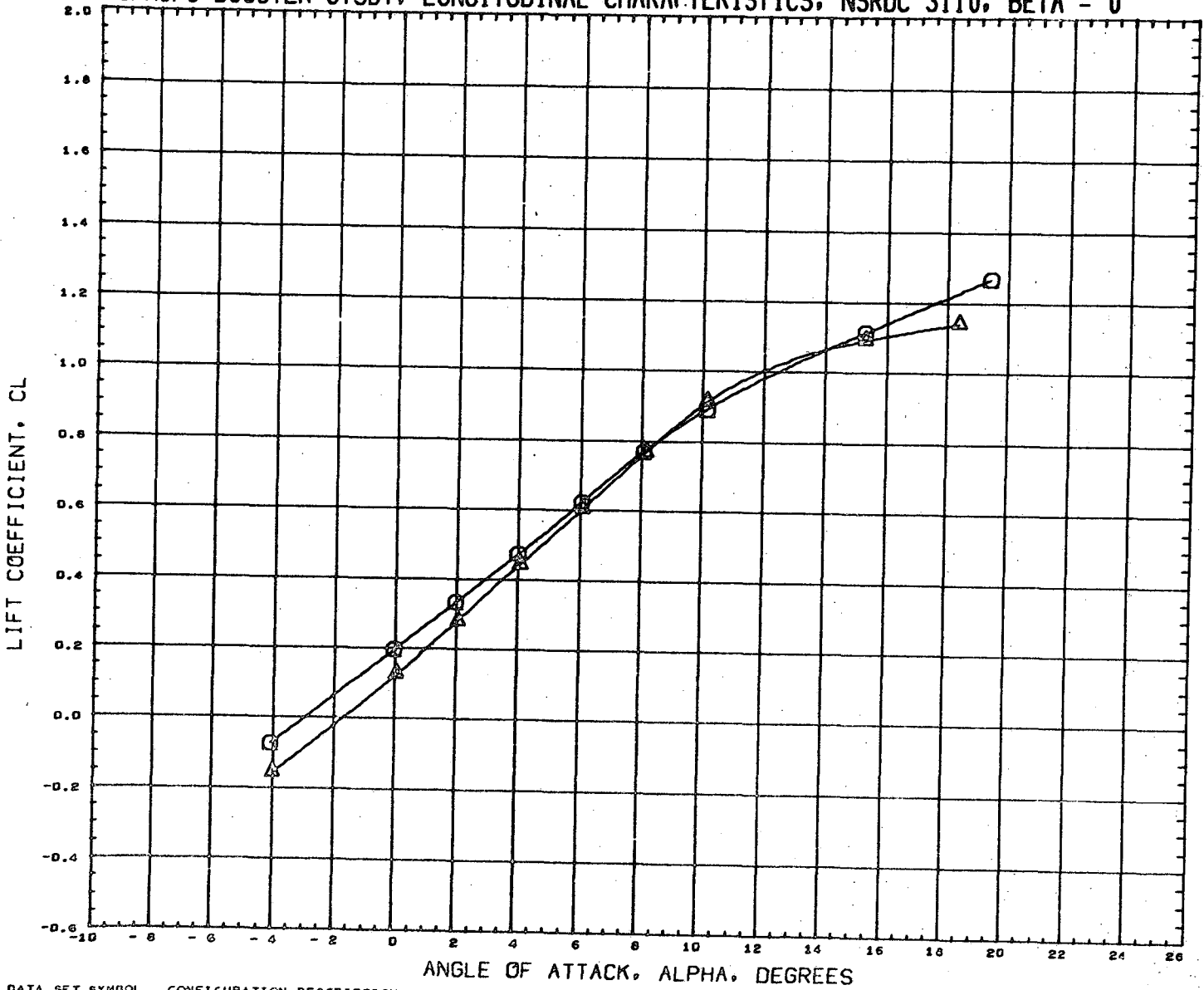
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

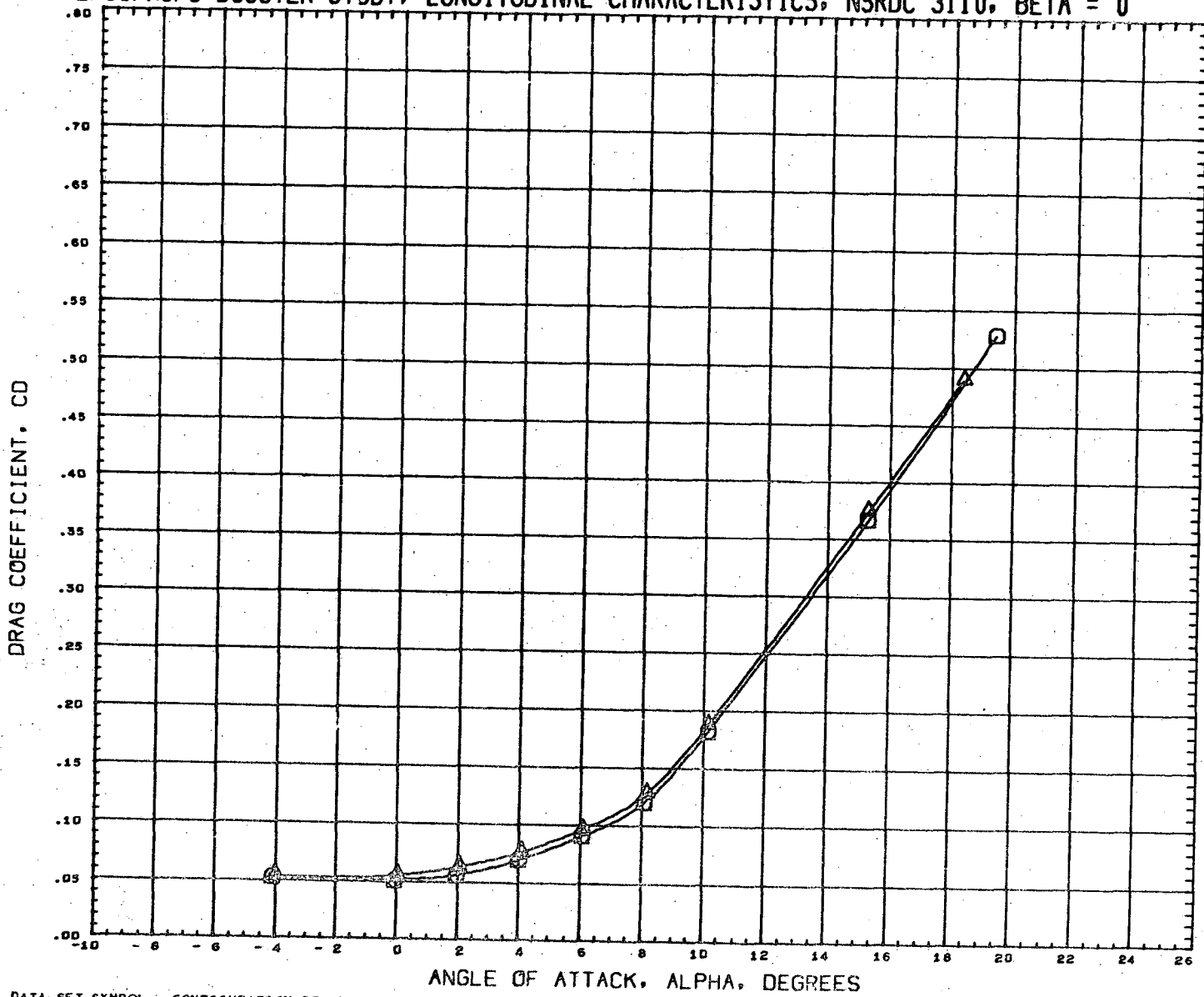
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2225)	NSRDC-3110, HSF/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	SREF	1.3550 SQ. FT.
(RN2241)	NSRDC-3110, HSF/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

HACH 0.381

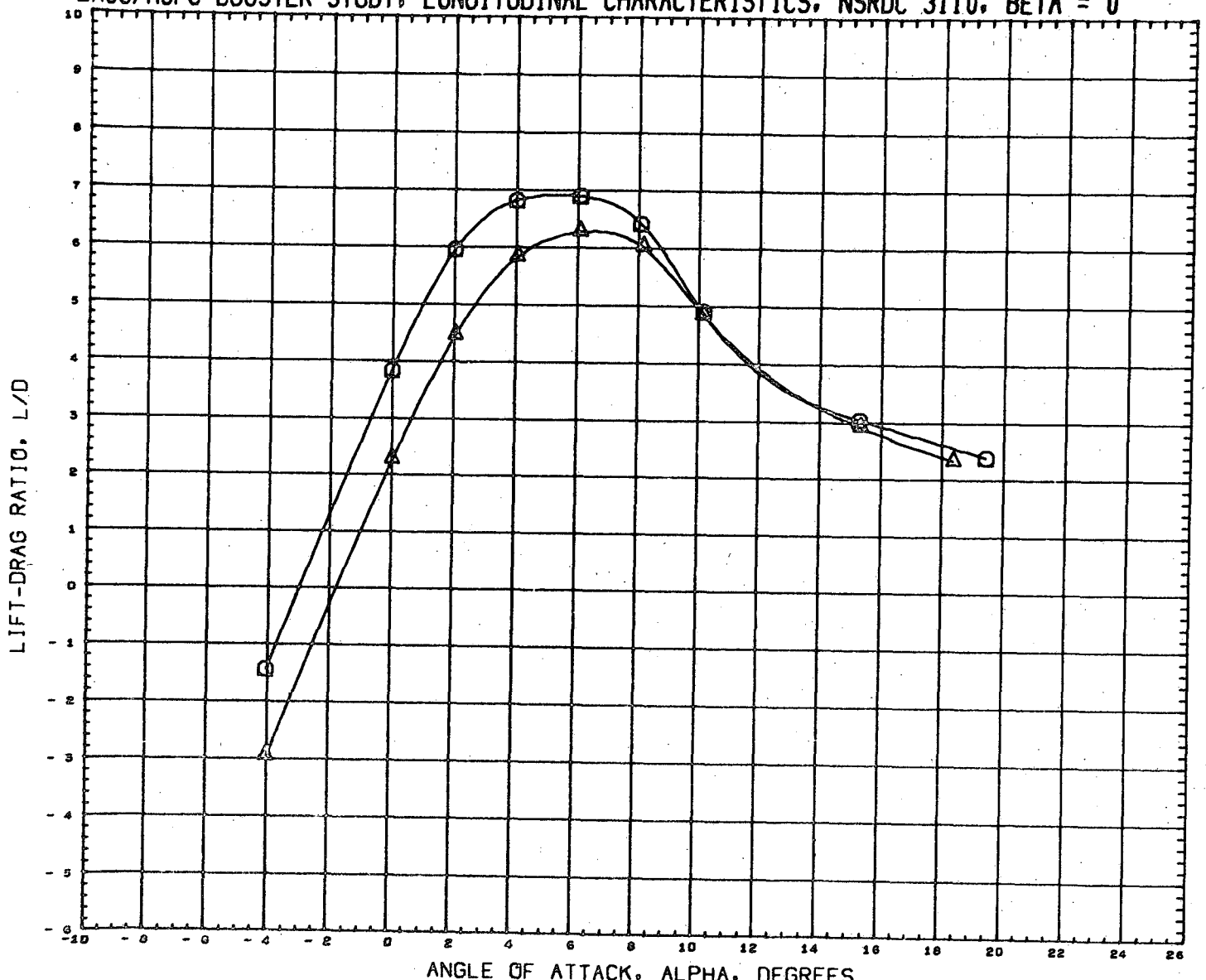
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2225)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2241)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

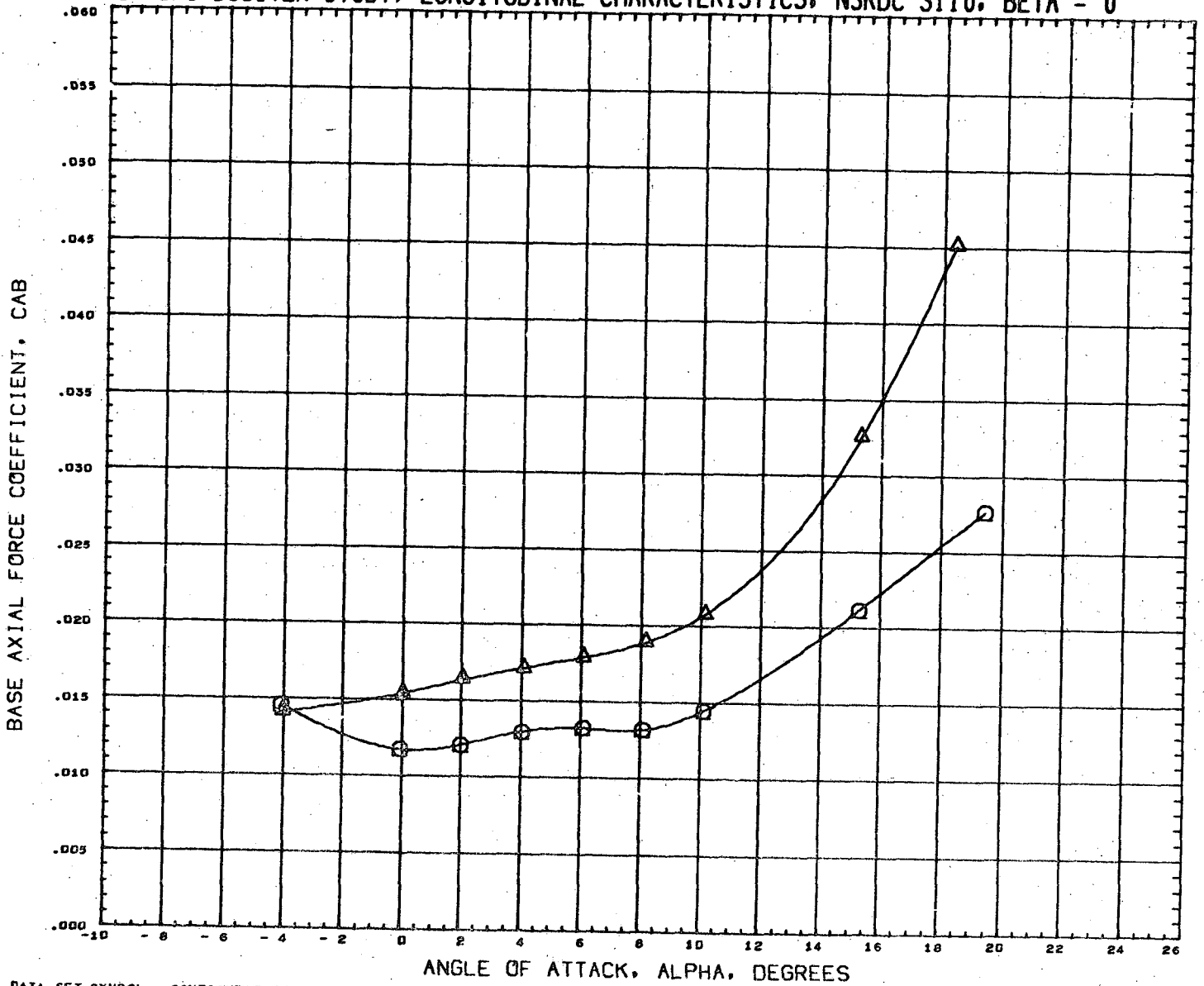
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2225)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2241)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

HACH 0.361

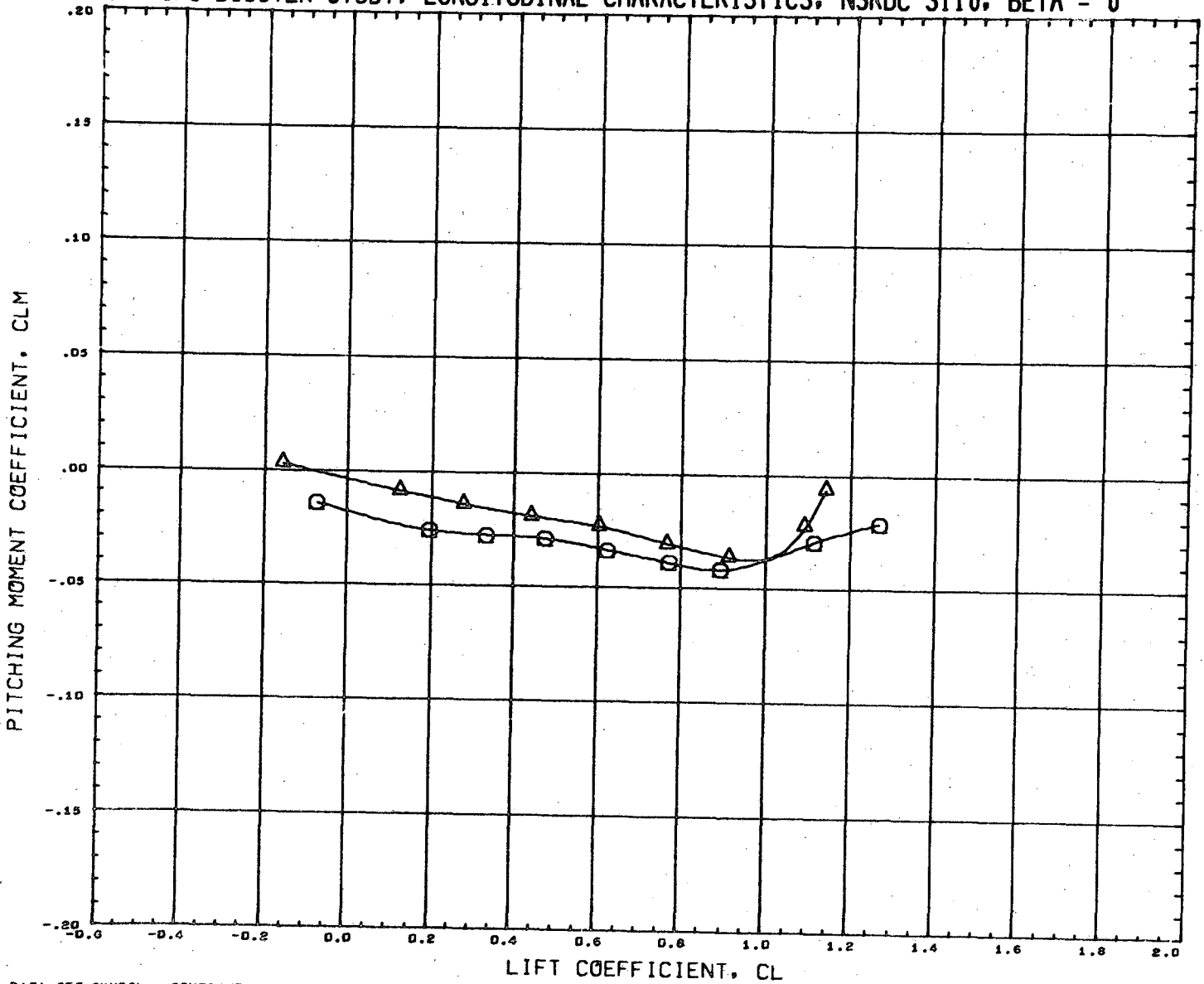
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2225)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2241)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

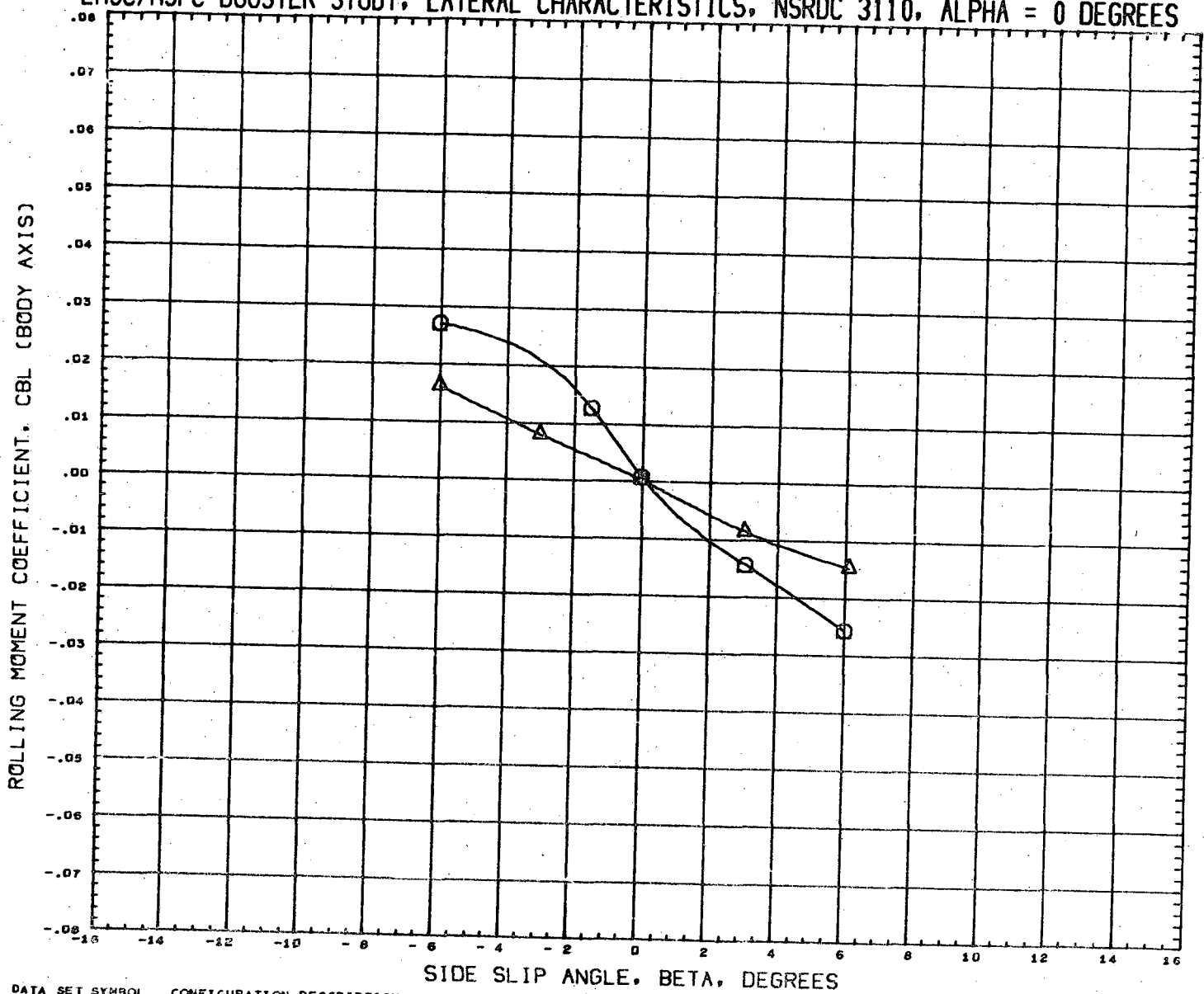
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2225)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2241)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.581

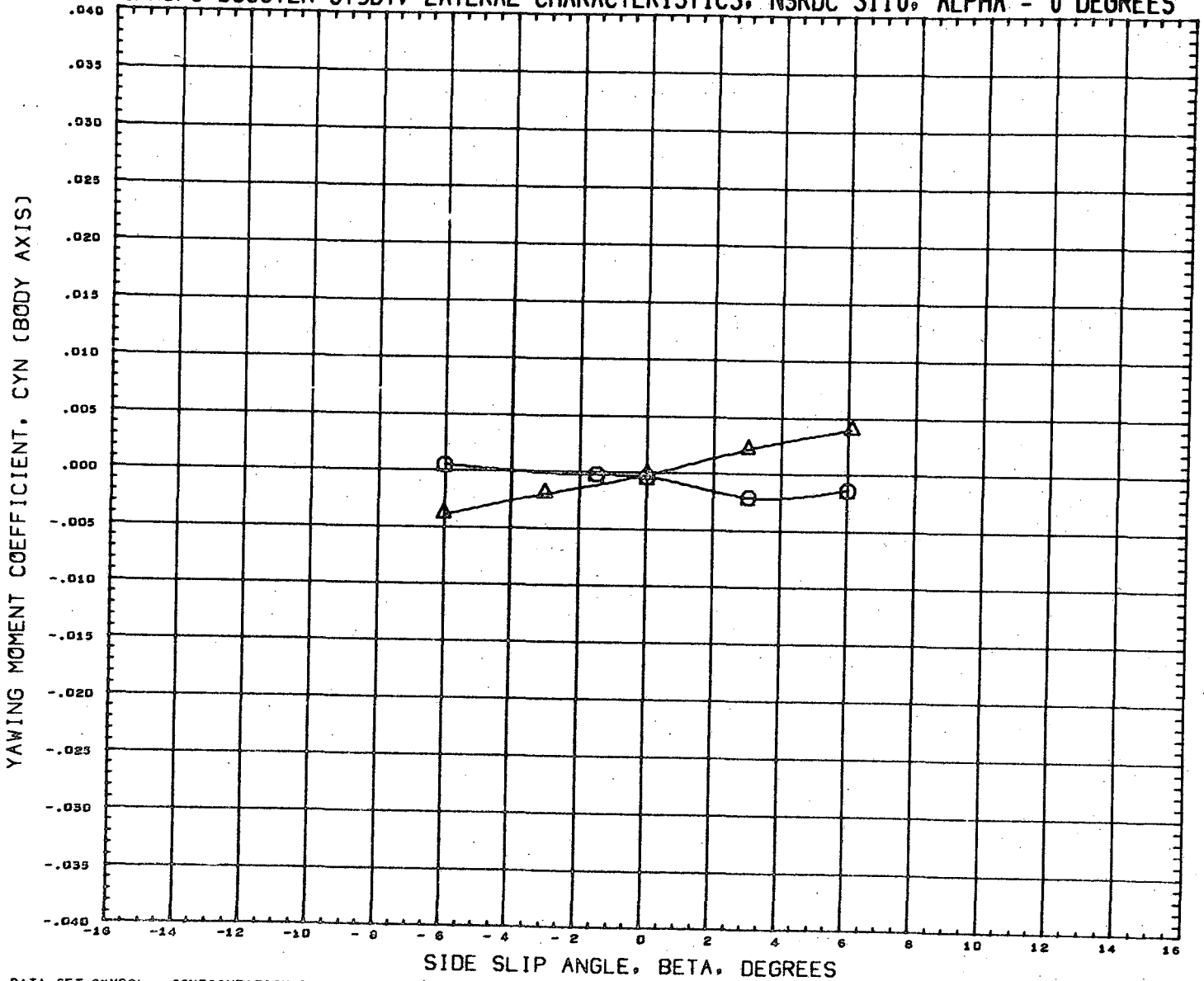
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2226)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2242)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.379

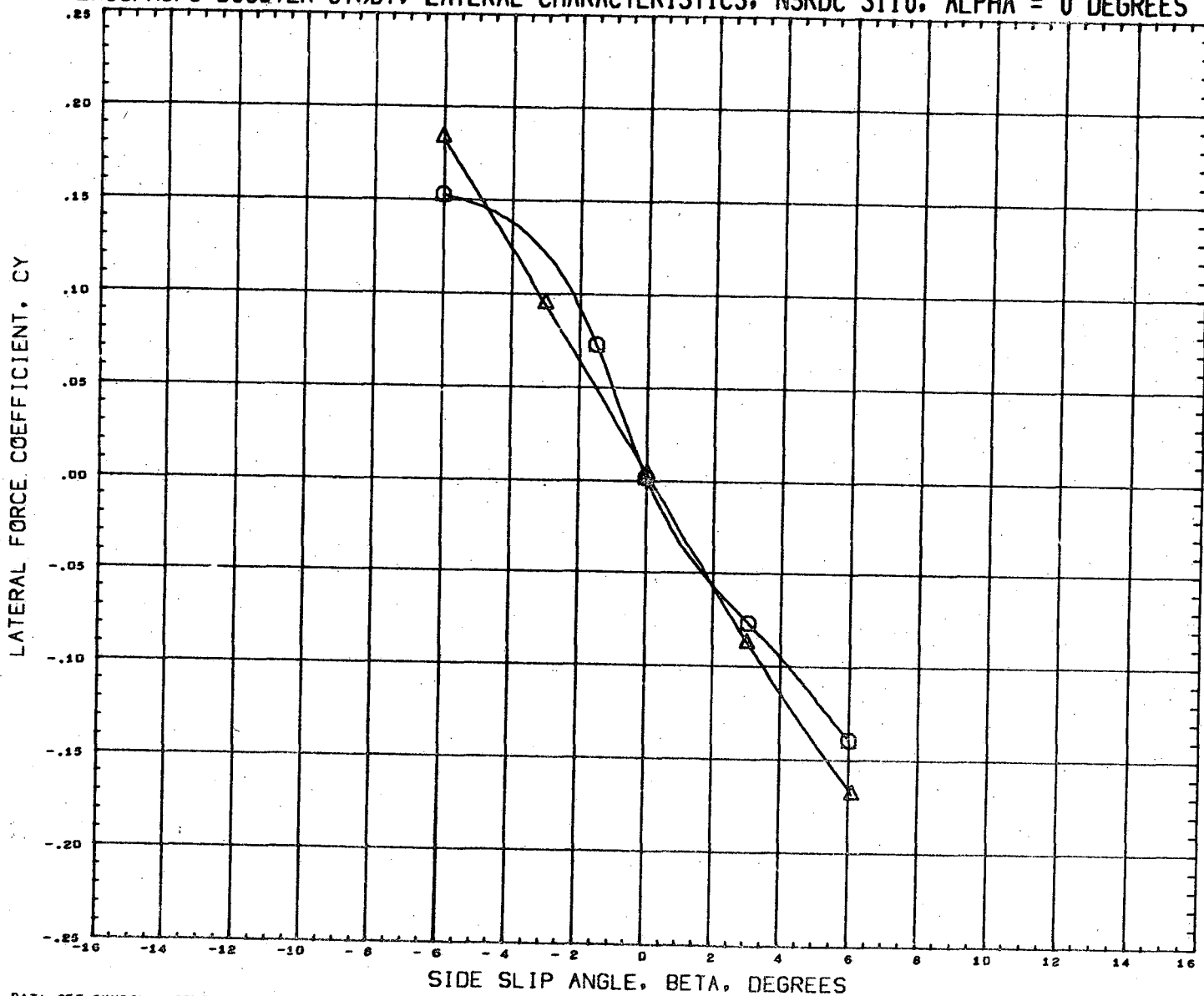
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2226) 	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2242) 	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

HACH D.379

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



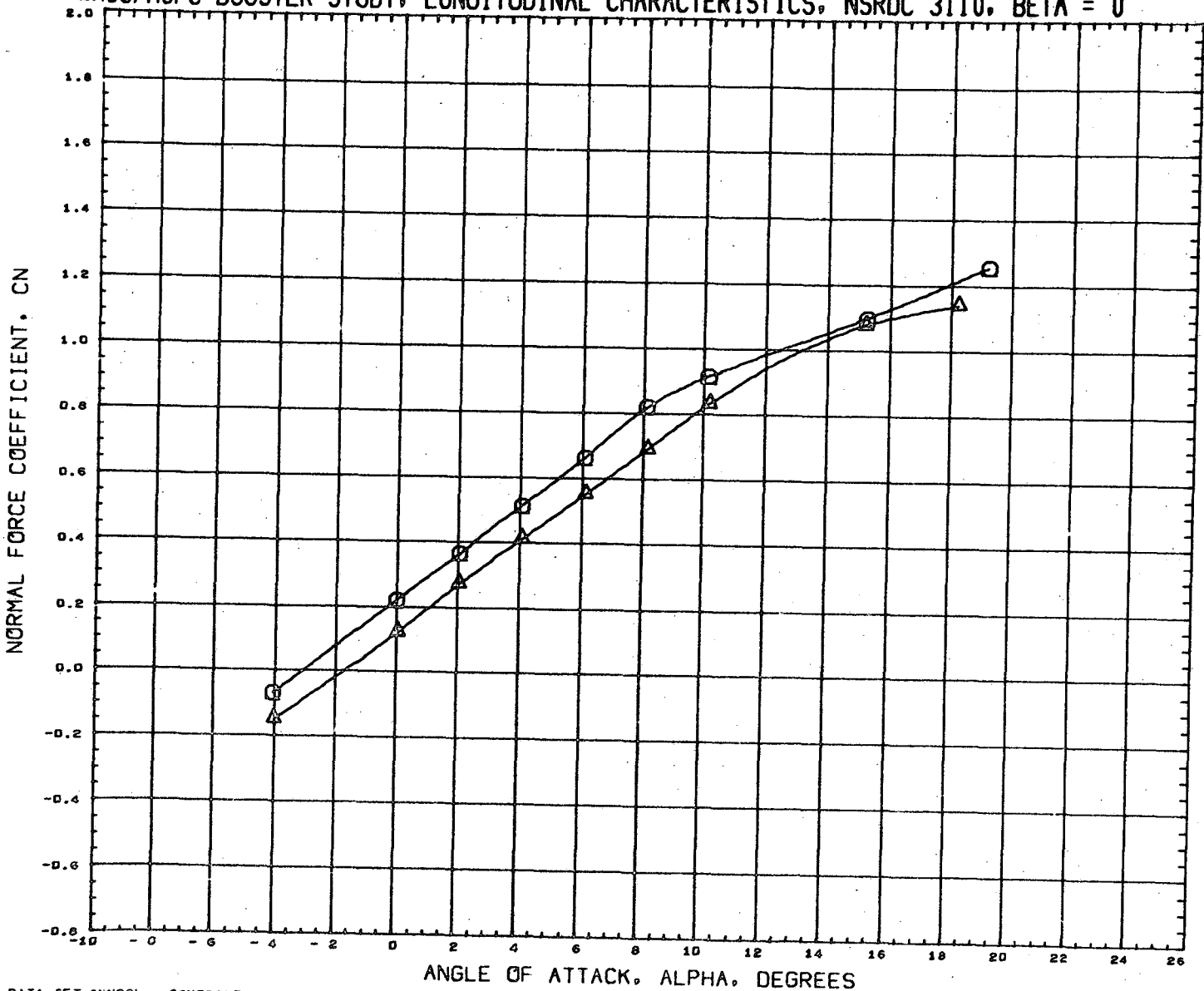
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2226) \circ	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2242) \triangle	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2233) NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 (RN2249) NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

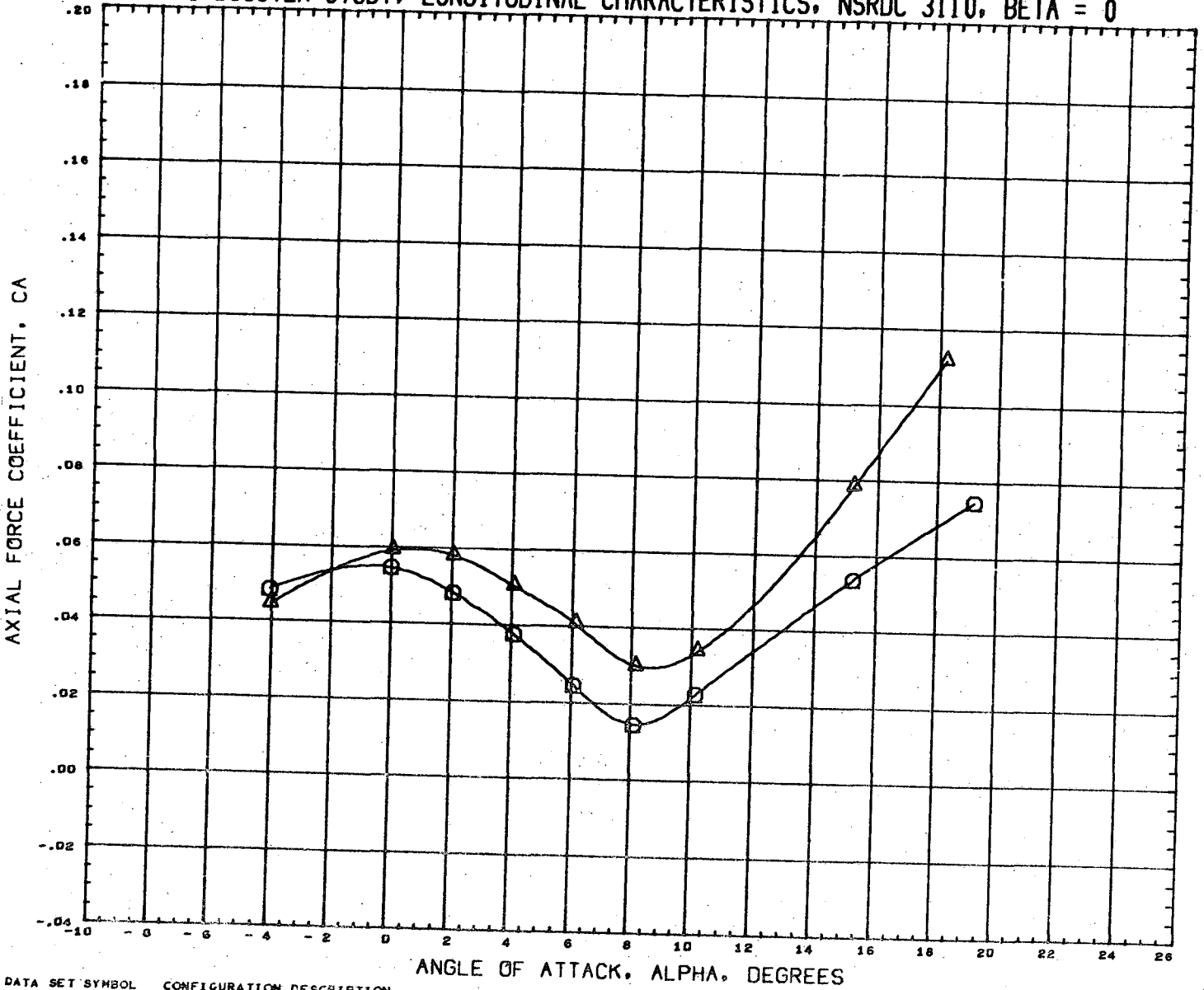
REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.382

//

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



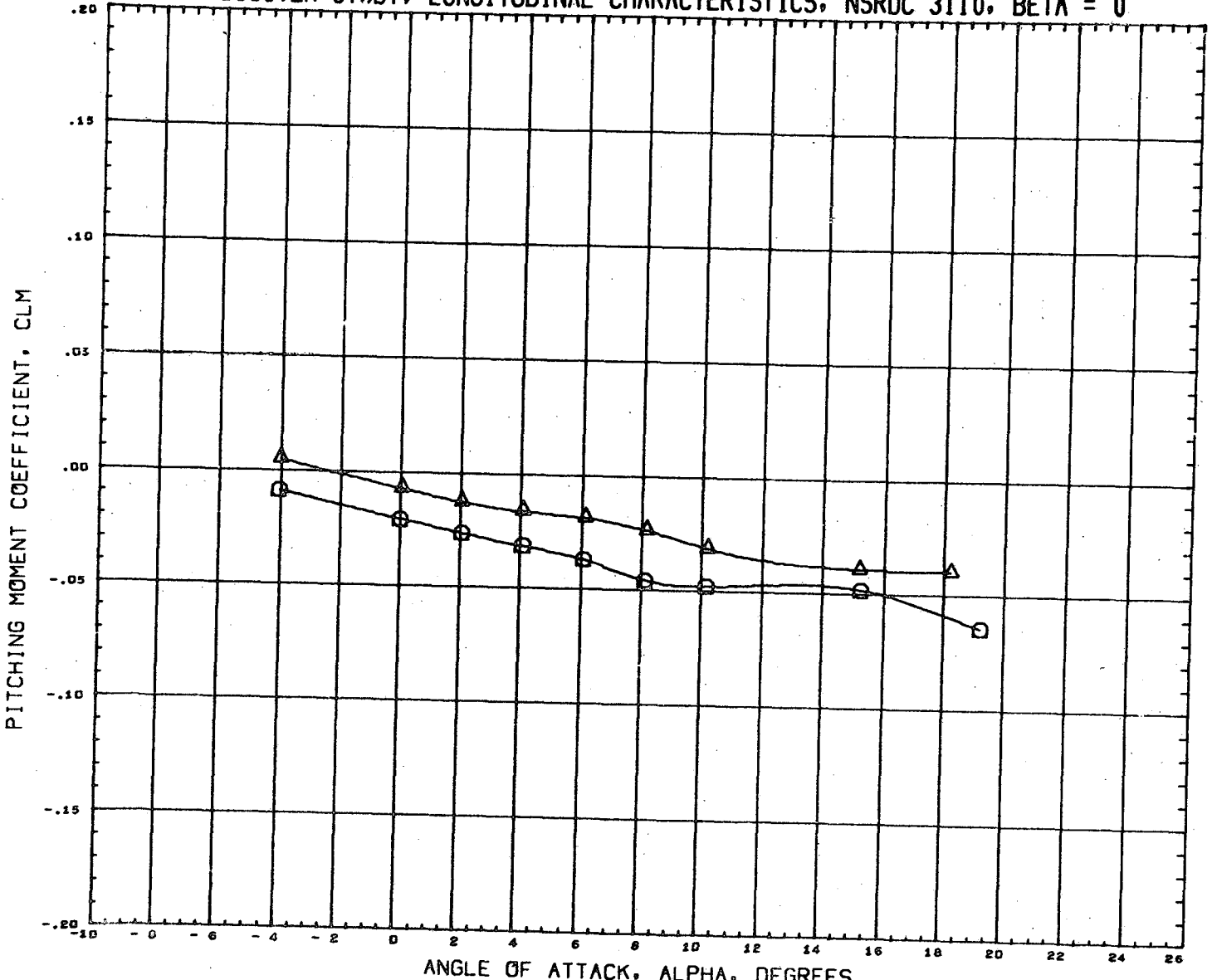
DATA SET SYMBOL (RN2233) (RN2249) CONFIGURATION DESCRIPTION NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1 NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2233) ○ NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 (RN2249) △ NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1

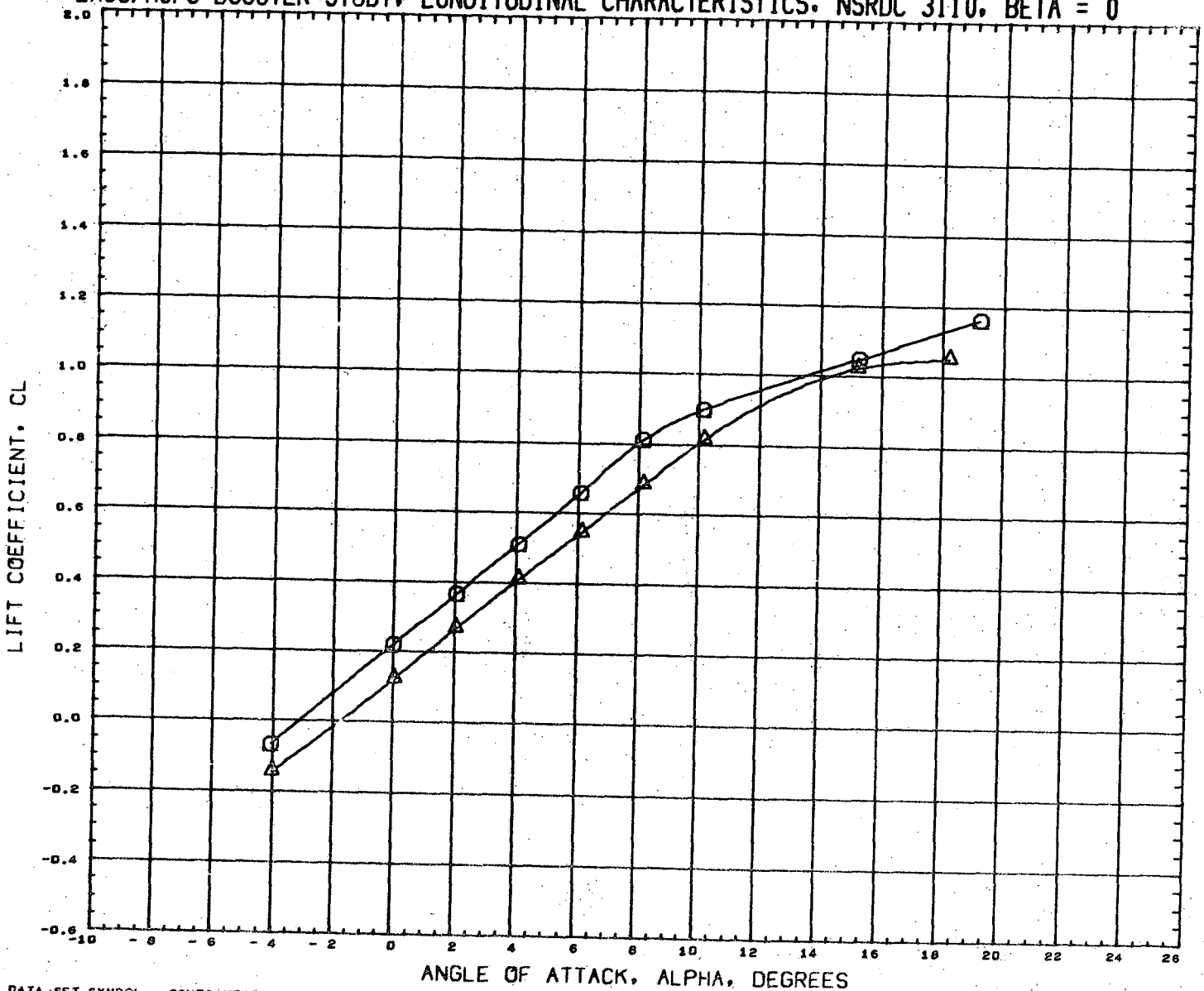
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.382

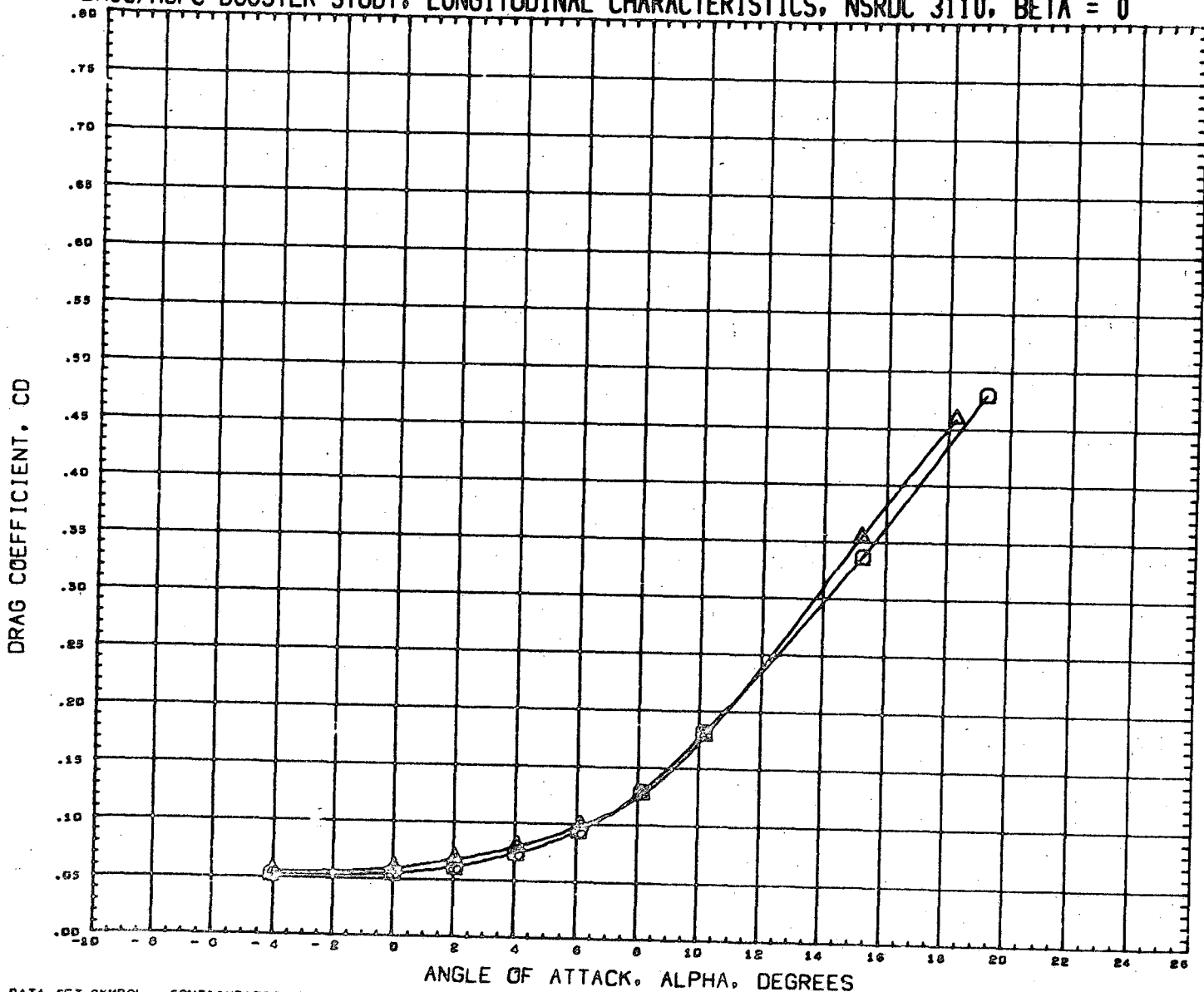
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2233)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2249)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



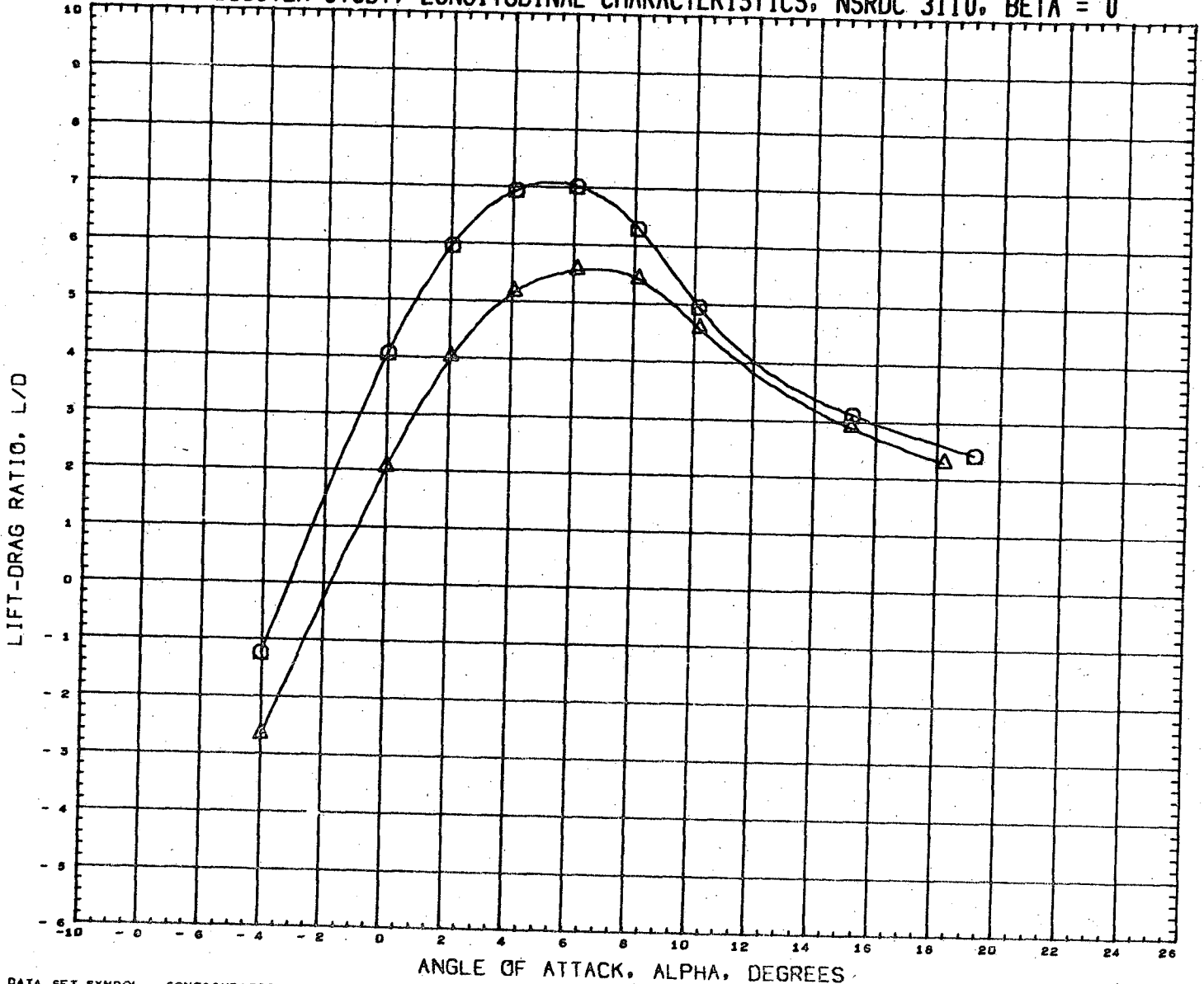
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(R2233)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
(R2240)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

NACH D.582

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

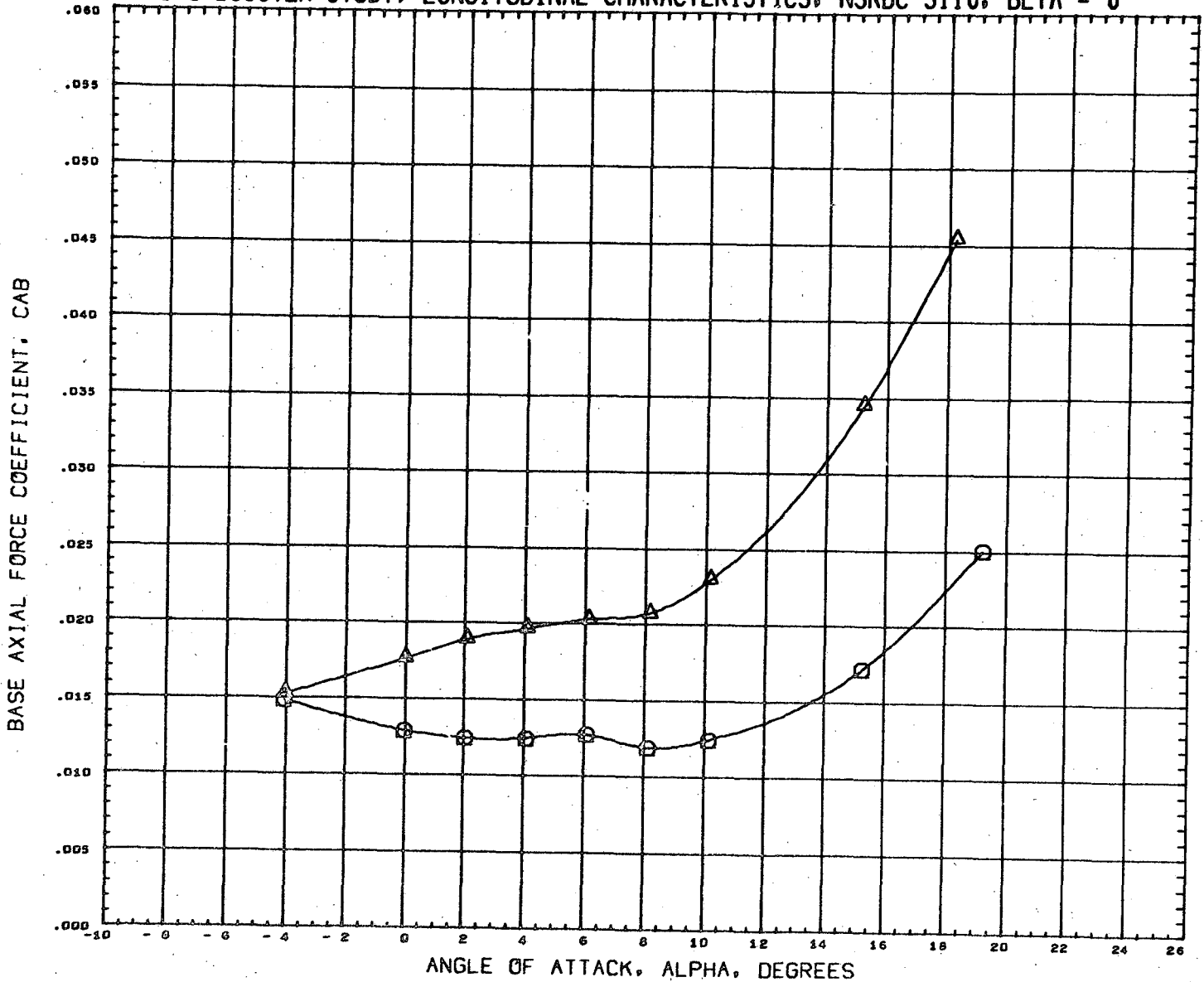


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2233) ○ NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
 (RN2249) △ NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNSPOS	REFERENCE INFORMATION
3.000	2.000	3.000	1.000	SREF 1.3550 SR.FT.
3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
				BREF 41.4360 INCHES
				XMRF 31.1400 INCHES
				YMRF 0.0000 INCHES
				ZMRF 0.2250 INCHES
				SCALE 1.5000 PERCNT

MACH 0.382

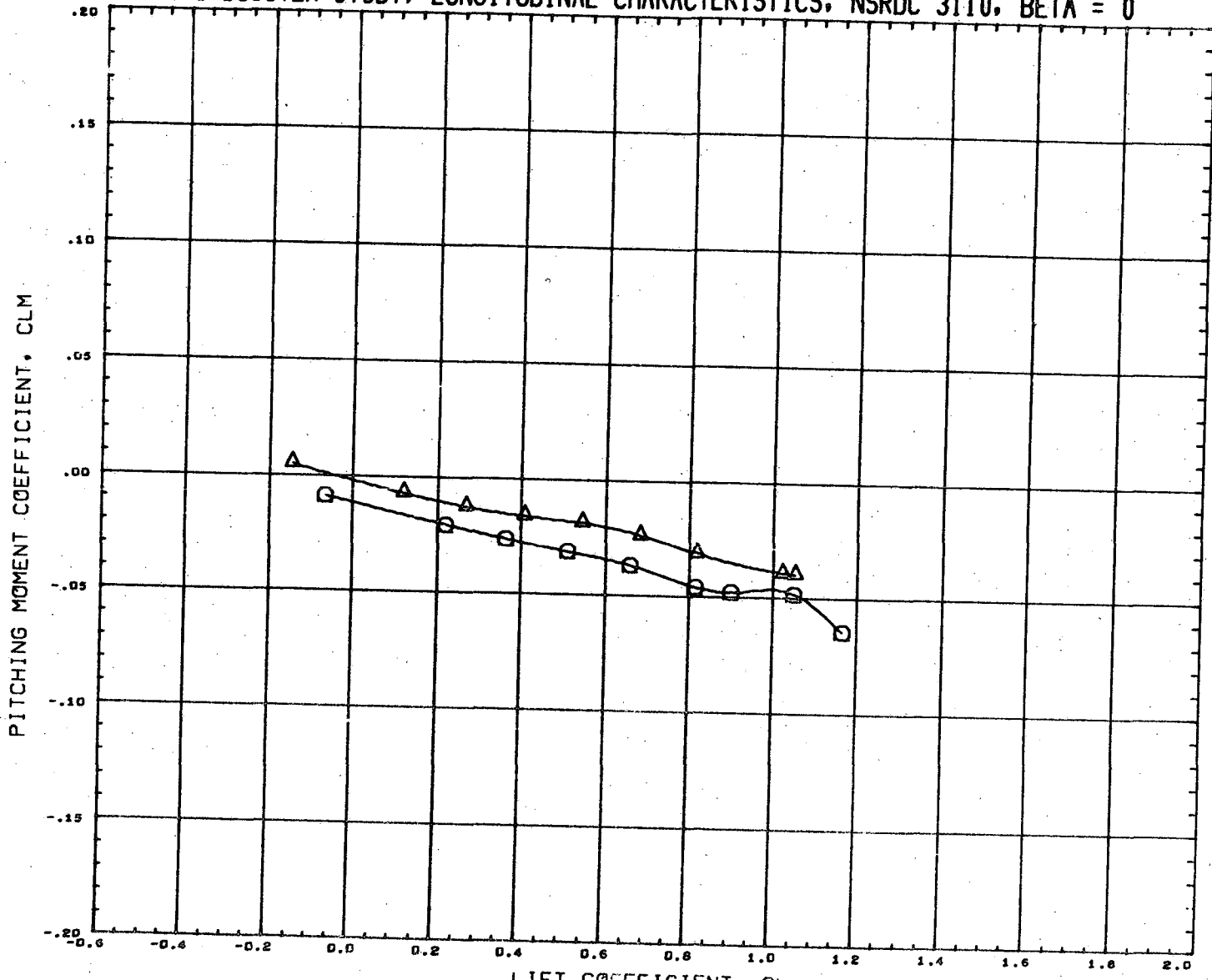
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCICW	WNGPOS	REFERENCE INFORMATION
(RN2253)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2249)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

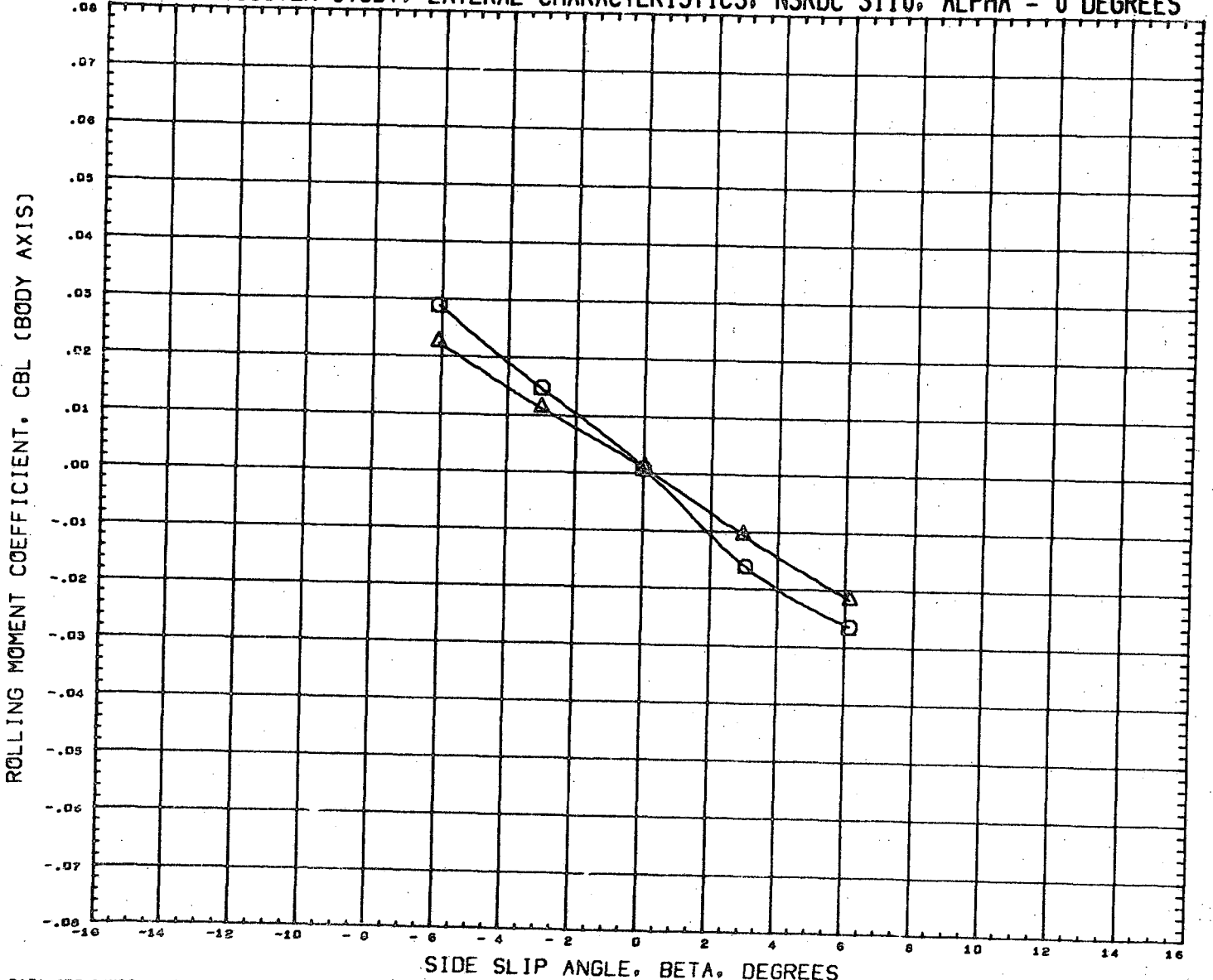
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2233)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2249)	NSRDC 3110 MSFC/LMSC BOOSTER B1C2F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



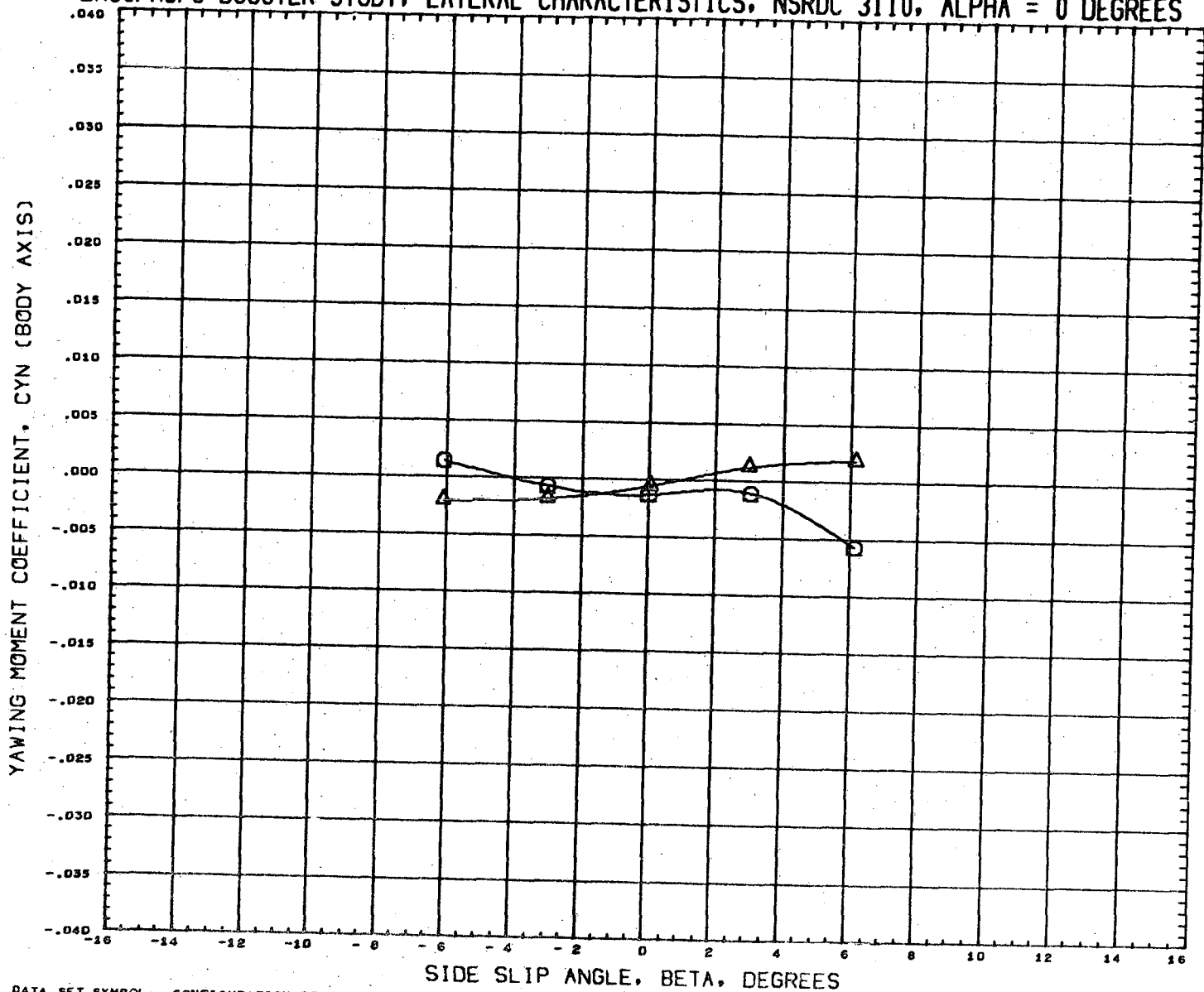
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2234) □ NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1
 (RN2250) △ NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC CNDPOS INCIDW WNGPOS
 3.000 2.000 3.000 1.000
 3.000 2.000 3.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ.FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2234)
(RN2250)



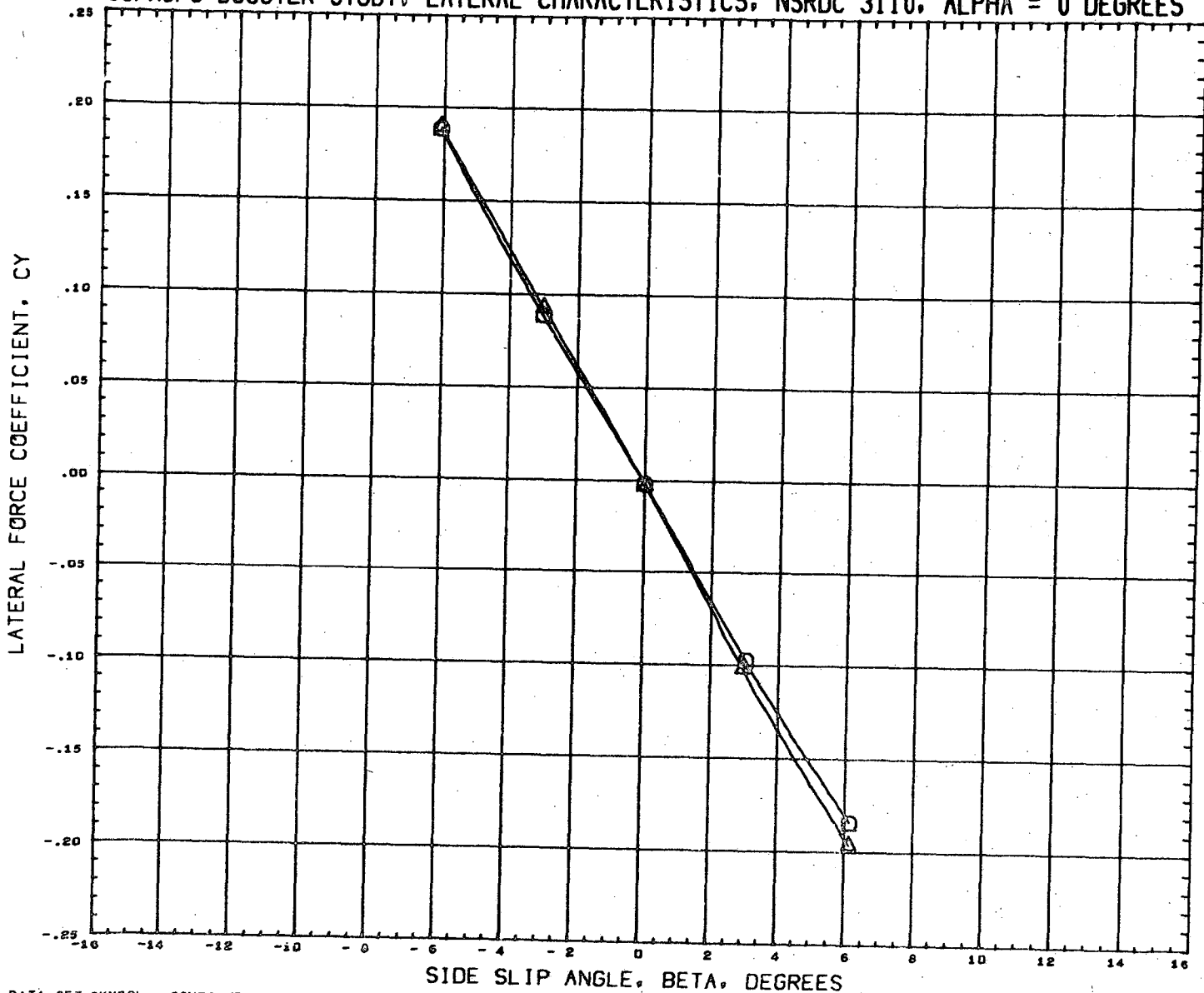
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY. LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2234)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2250)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

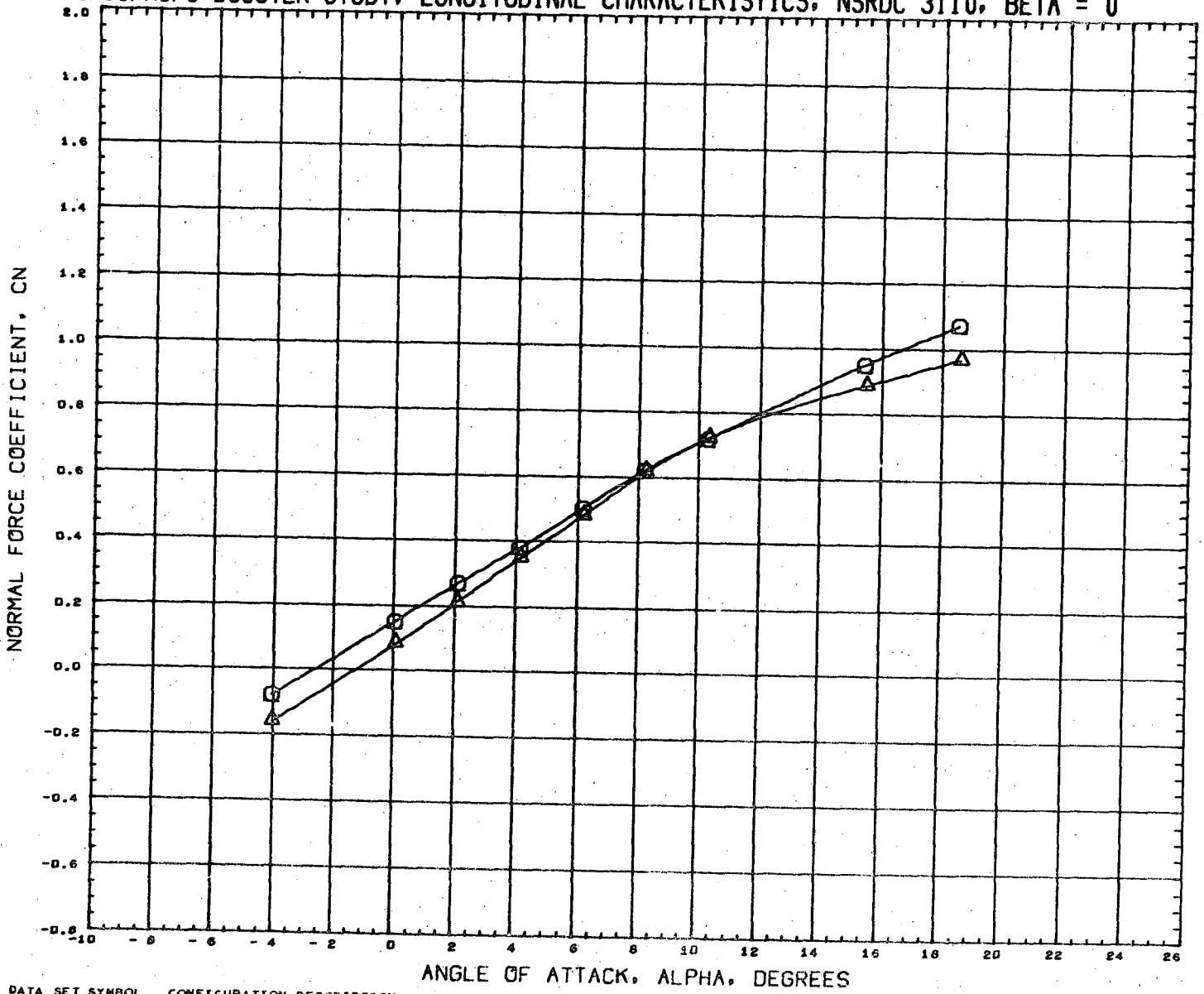
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3530	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.382

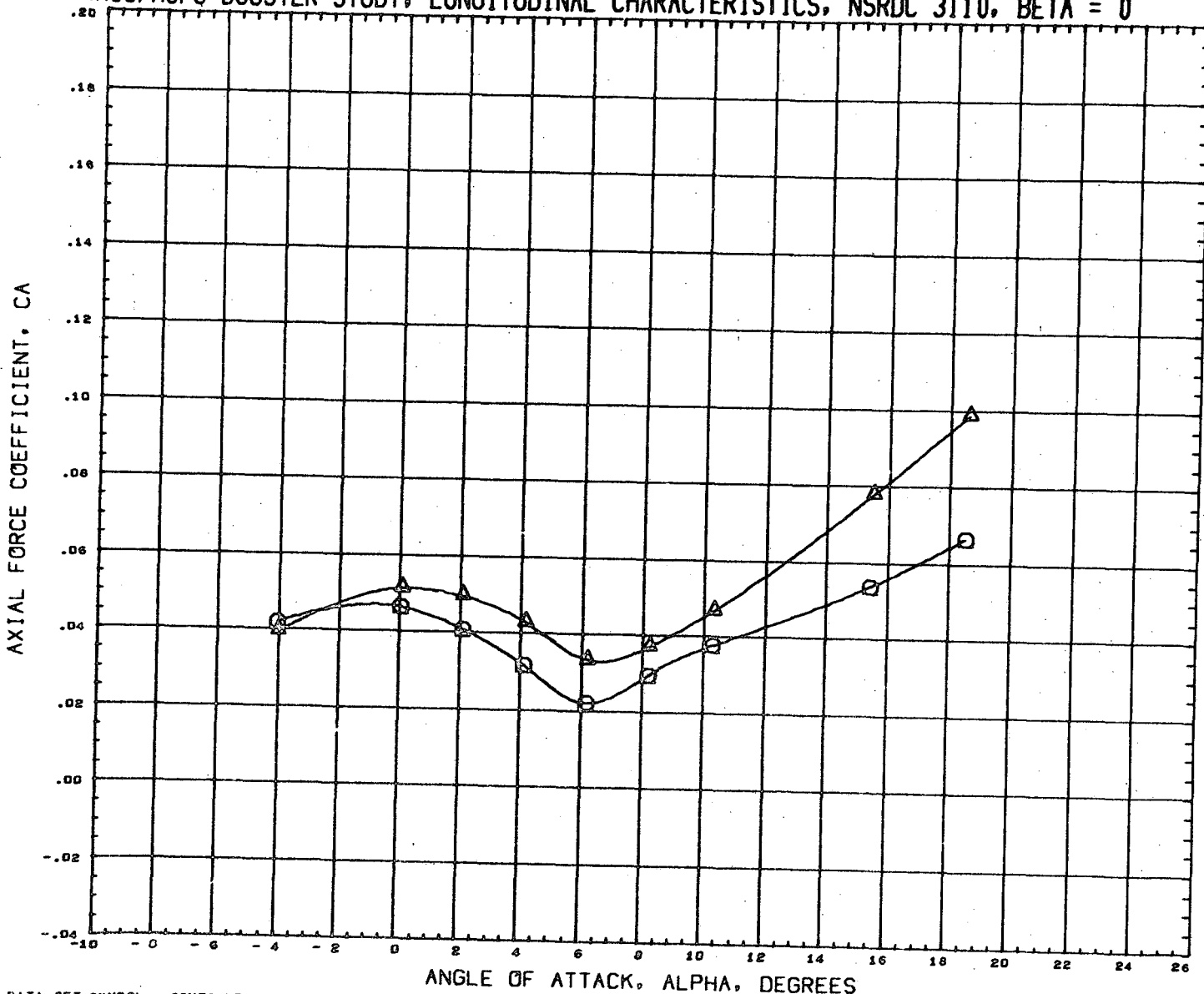
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2285)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2301)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.380

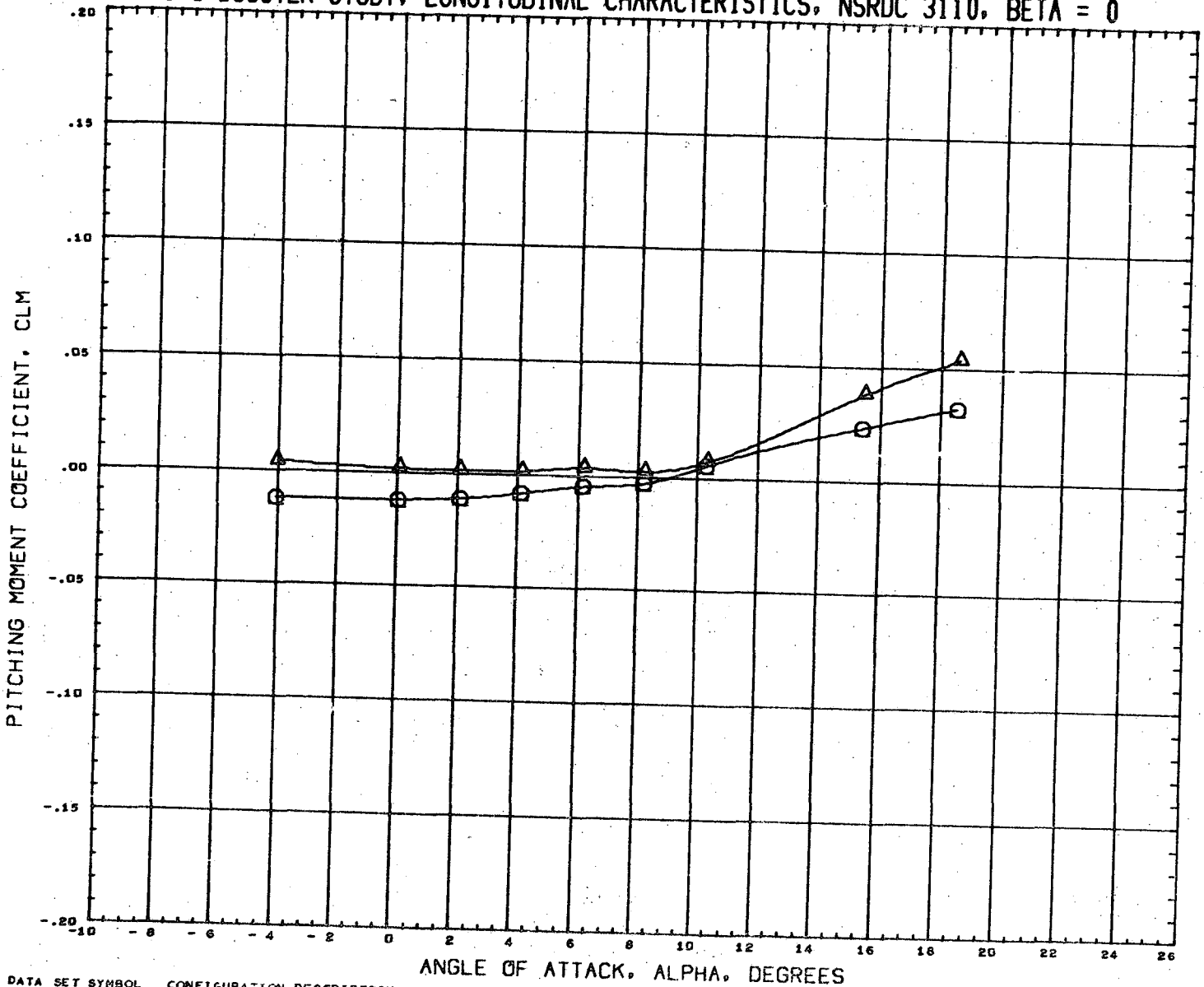
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2285)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2301)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

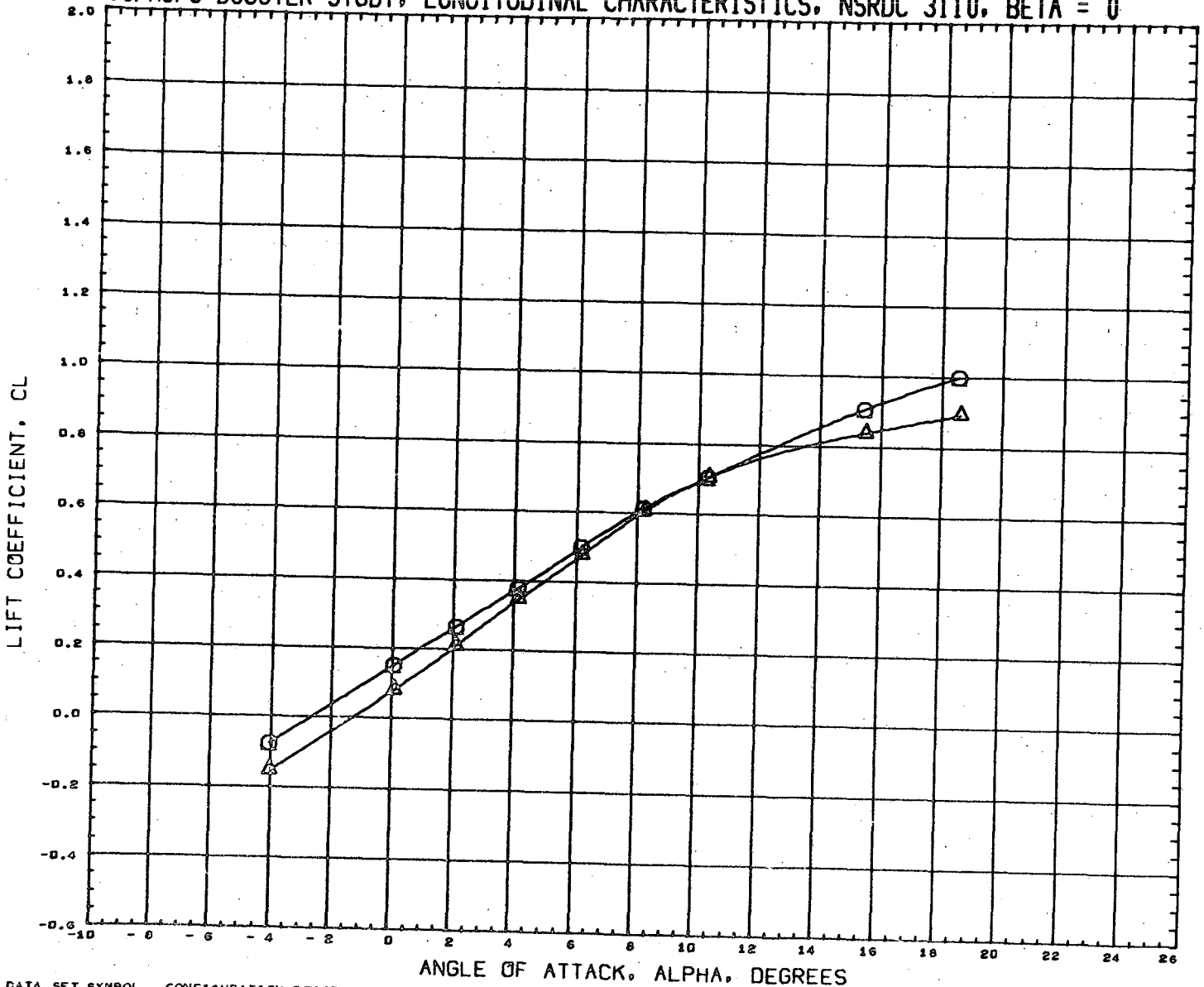
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2285)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2301)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

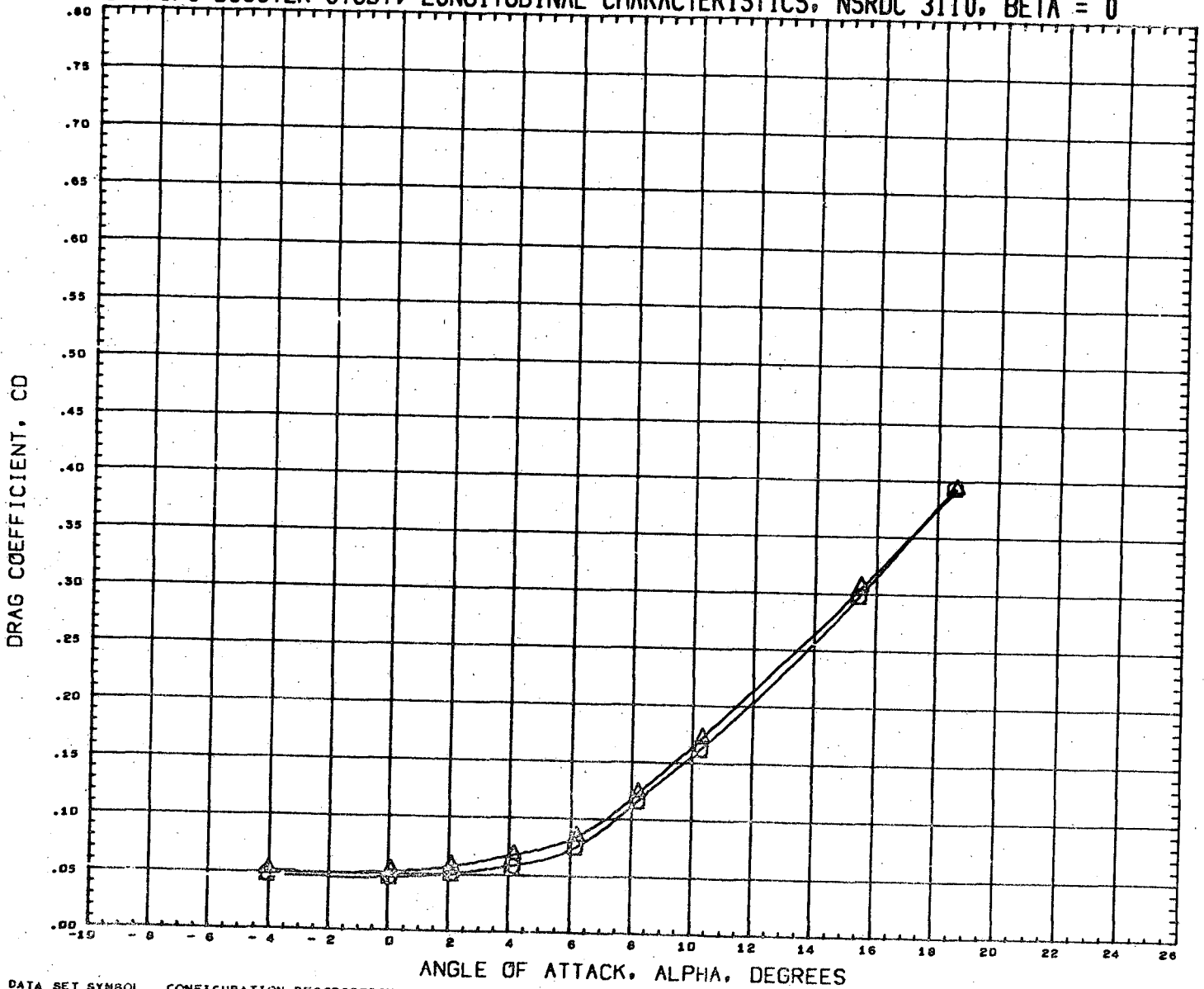
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2285)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2301)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2289)
(RN2301)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

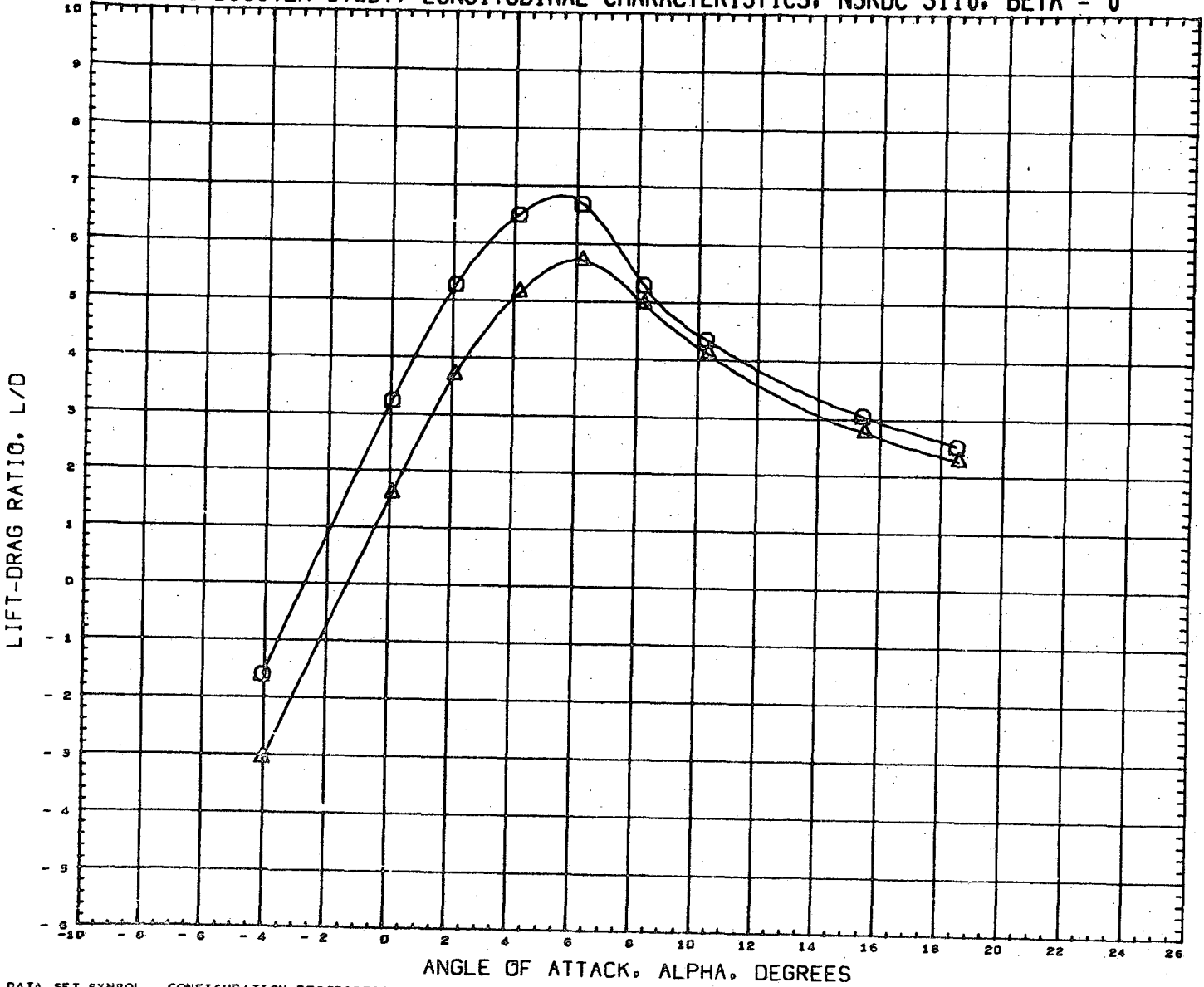
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4380	INCHES
BREF	41.4360	INCHES
XM RP	31.1400	INCHES
YM RP	0.0000	INCHES
ZM RP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RM2205)
(RM2301)



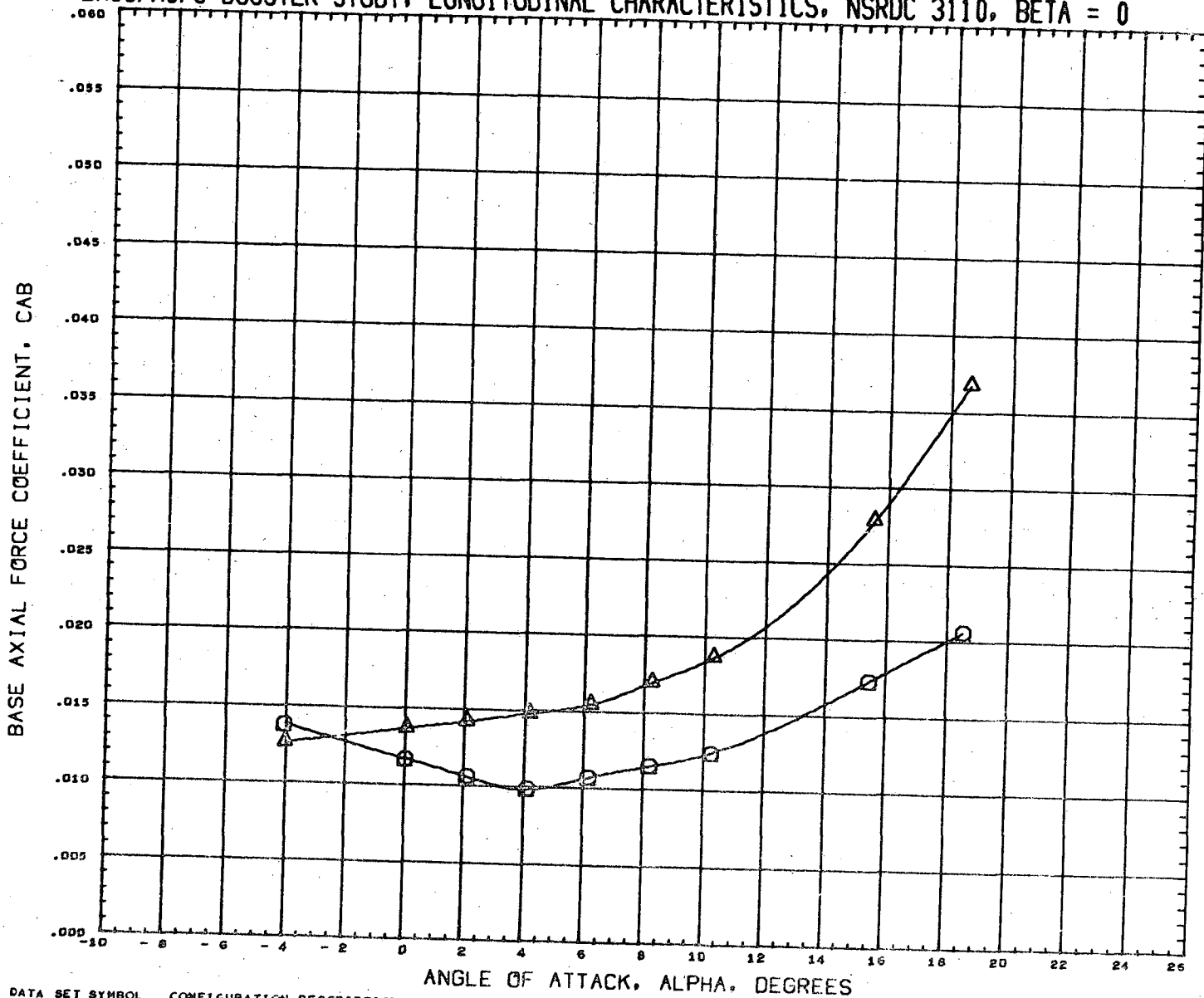
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.360

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2285)
(RN2301)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

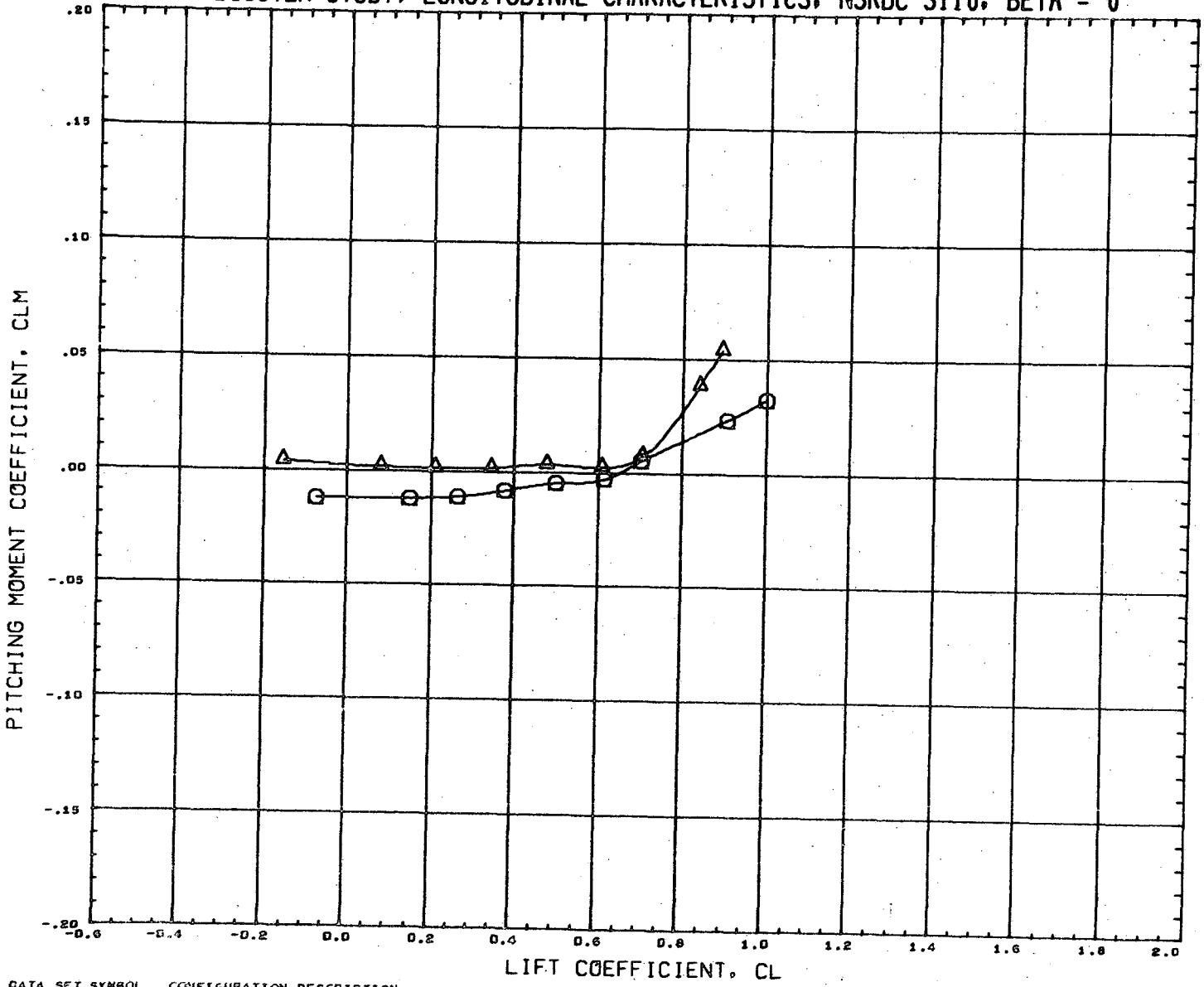
INCIDC	CMDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

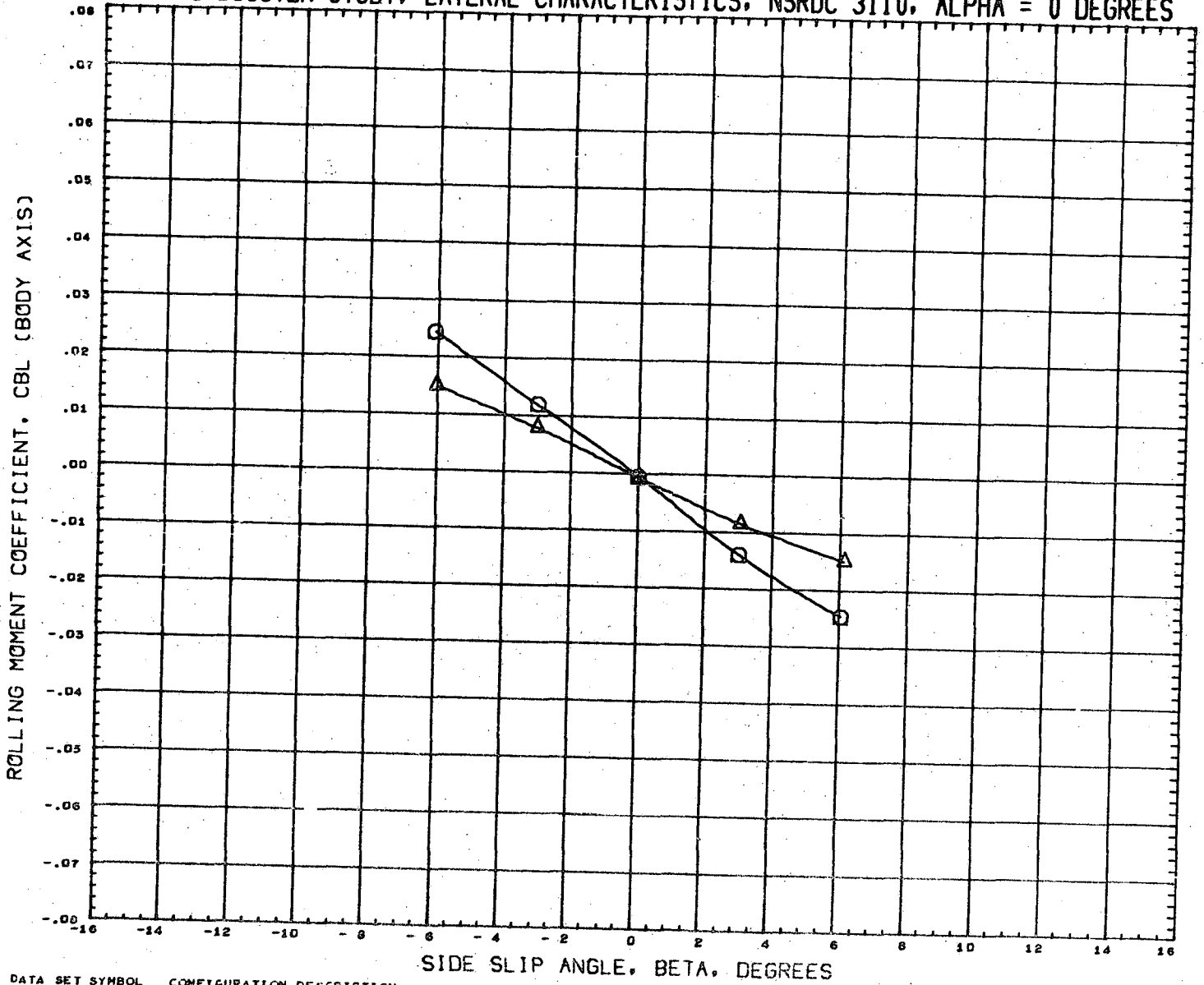
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2285)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2301)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XNRP 31.1400 INCHES
						YNRP 0.0000 INCHES
						ZNRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

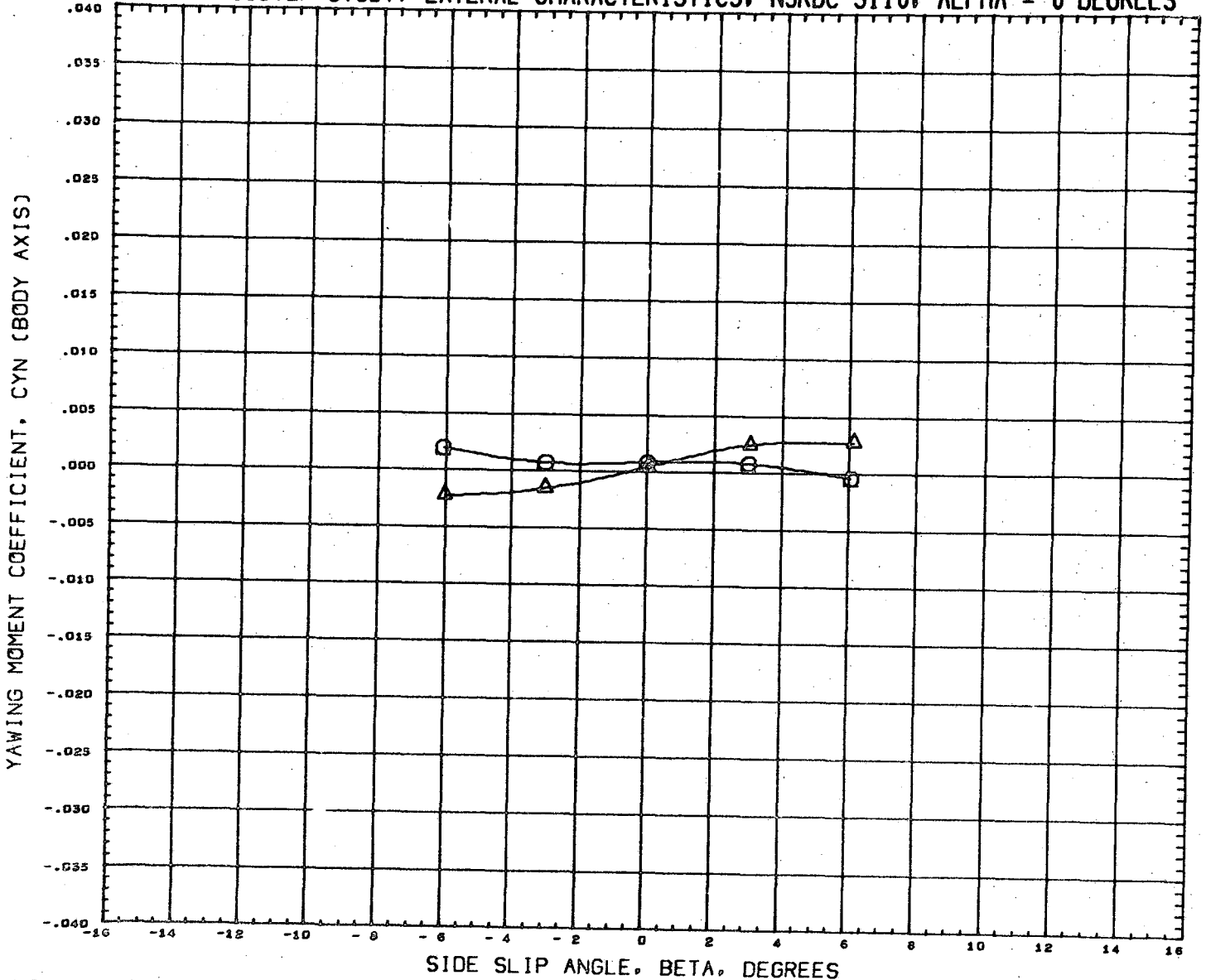
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNIPOS	REFERENCE INFORMATION
(RN2206)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2302)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

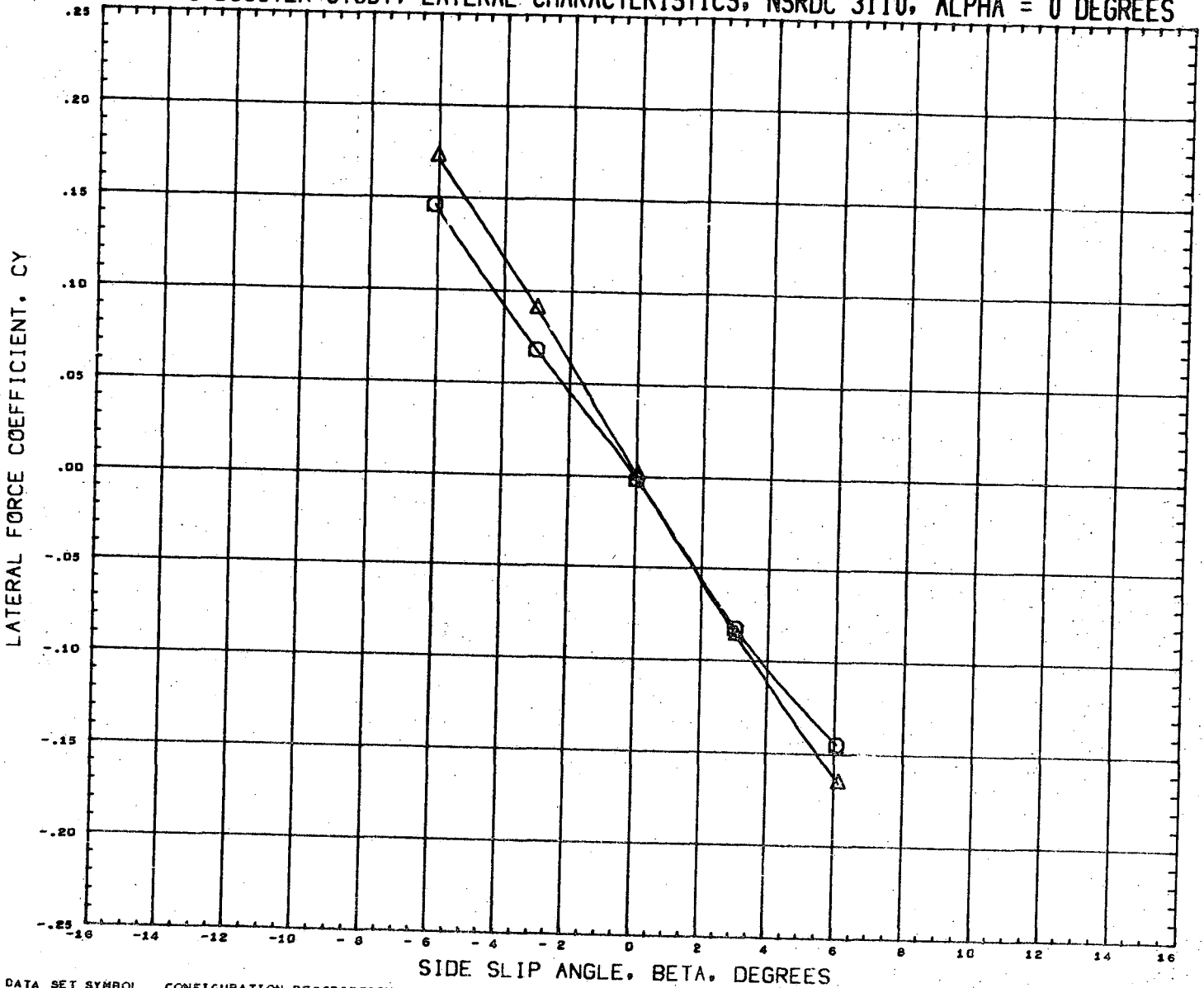
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES




DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2286)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2302)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



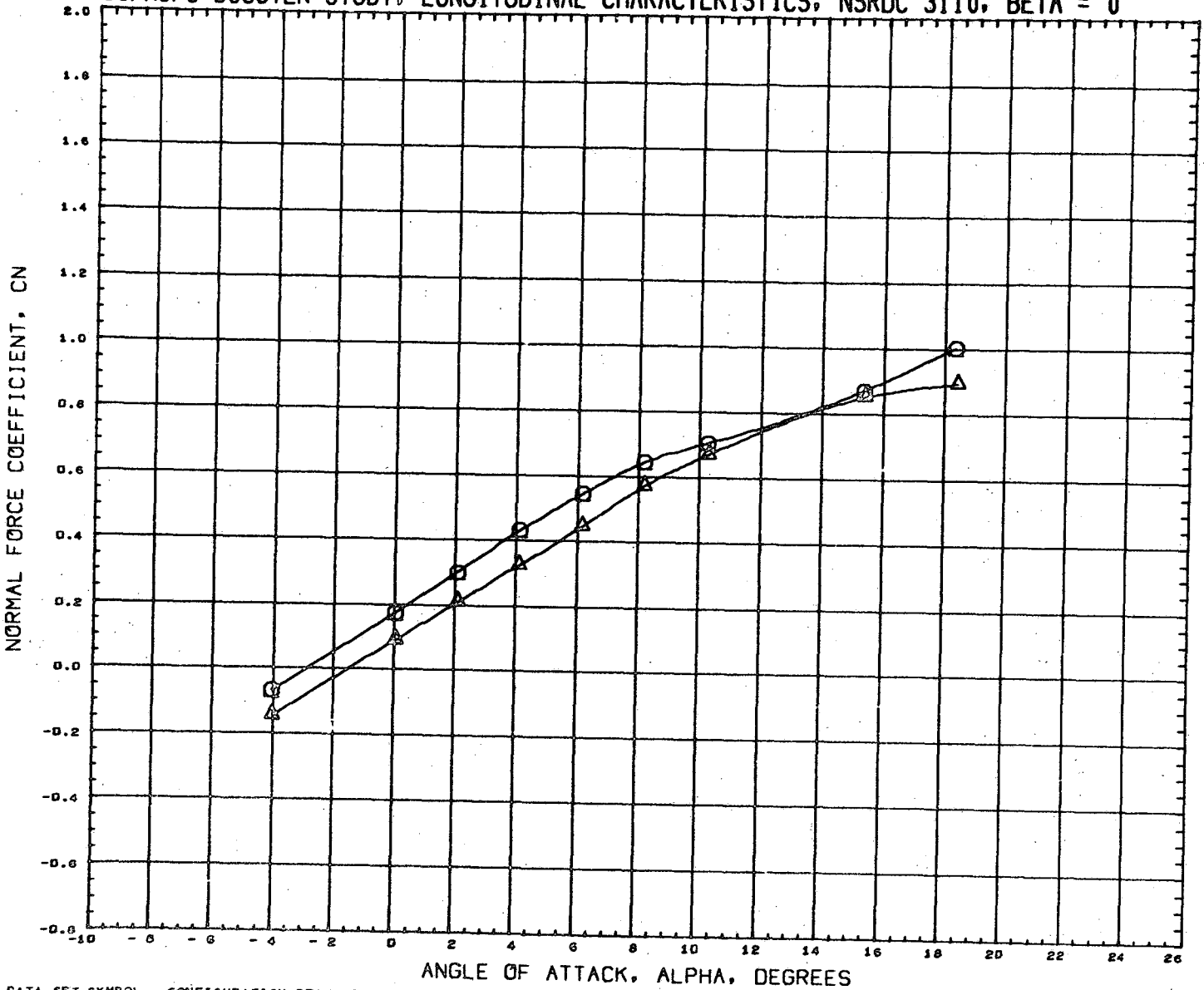
DATA SET SYMBOL (RN2206) (RN2302)  CONFIGURATION DESCRIPTION NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W2D1 NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC 3.000 3.000
 CNDPOS 1.000 1.000
 INCIDW 3.000 3.000
 WNGPOS 1.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2293)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2309)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

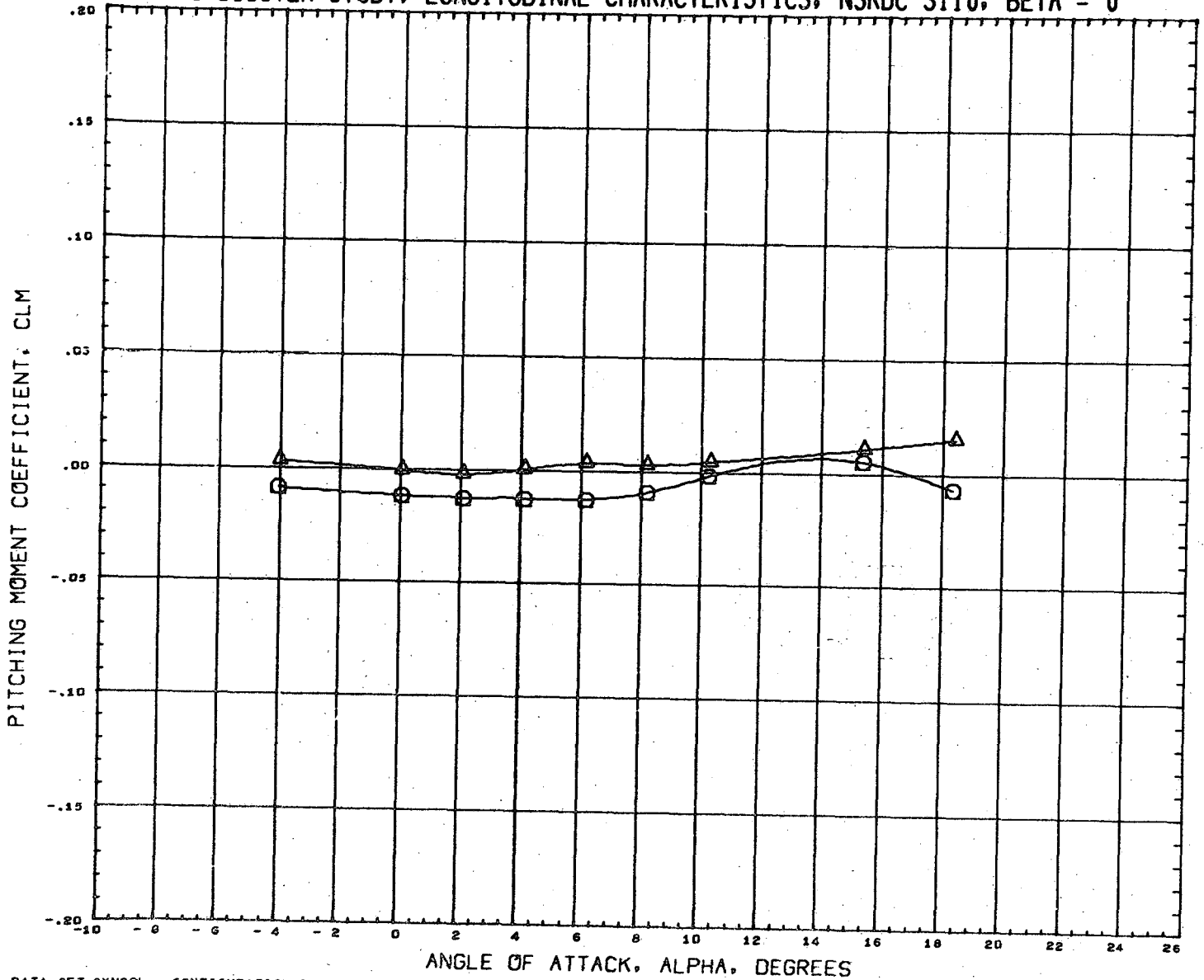
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2293)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2309)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2293)
(RN2309)

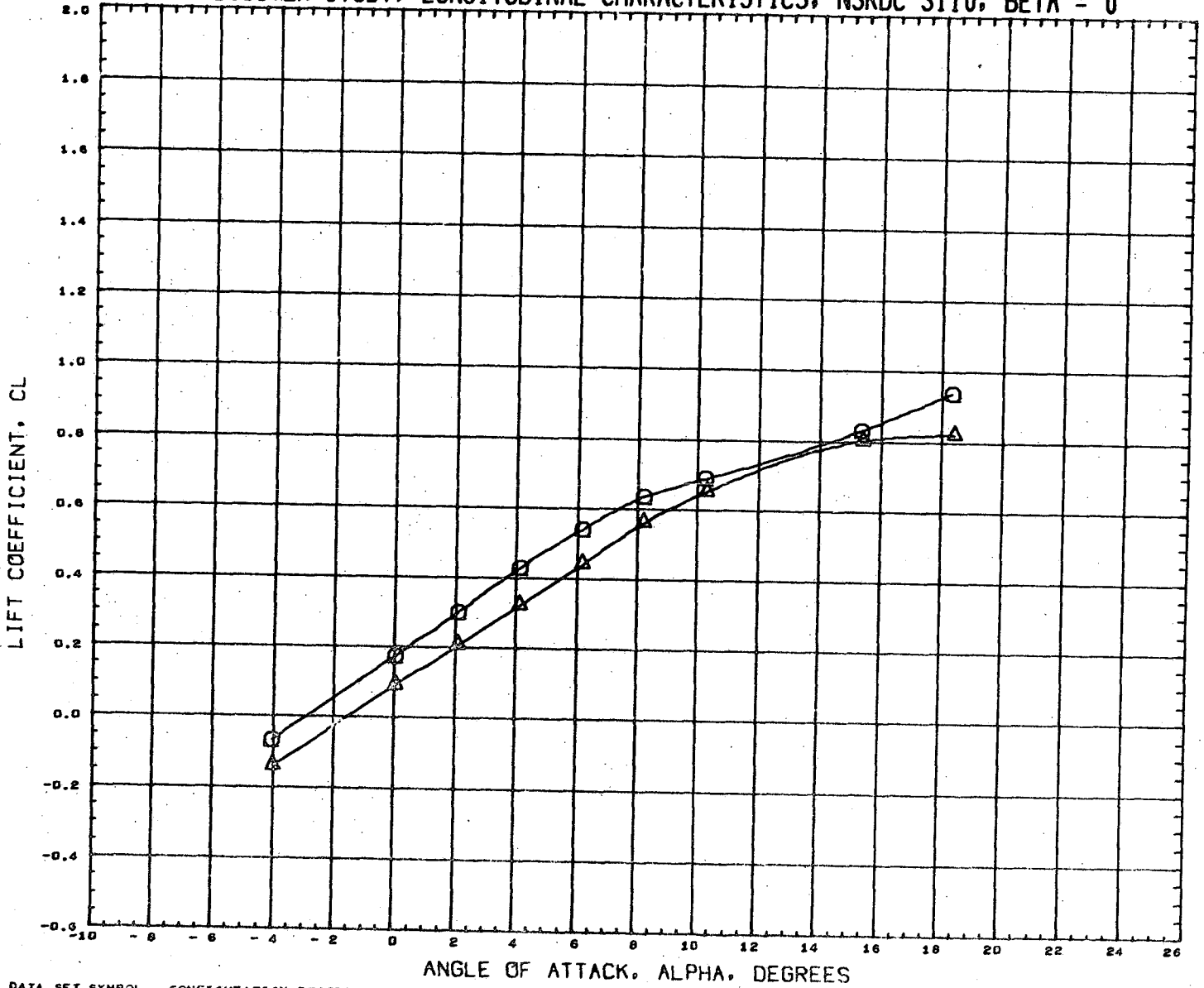
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	2.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	90. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

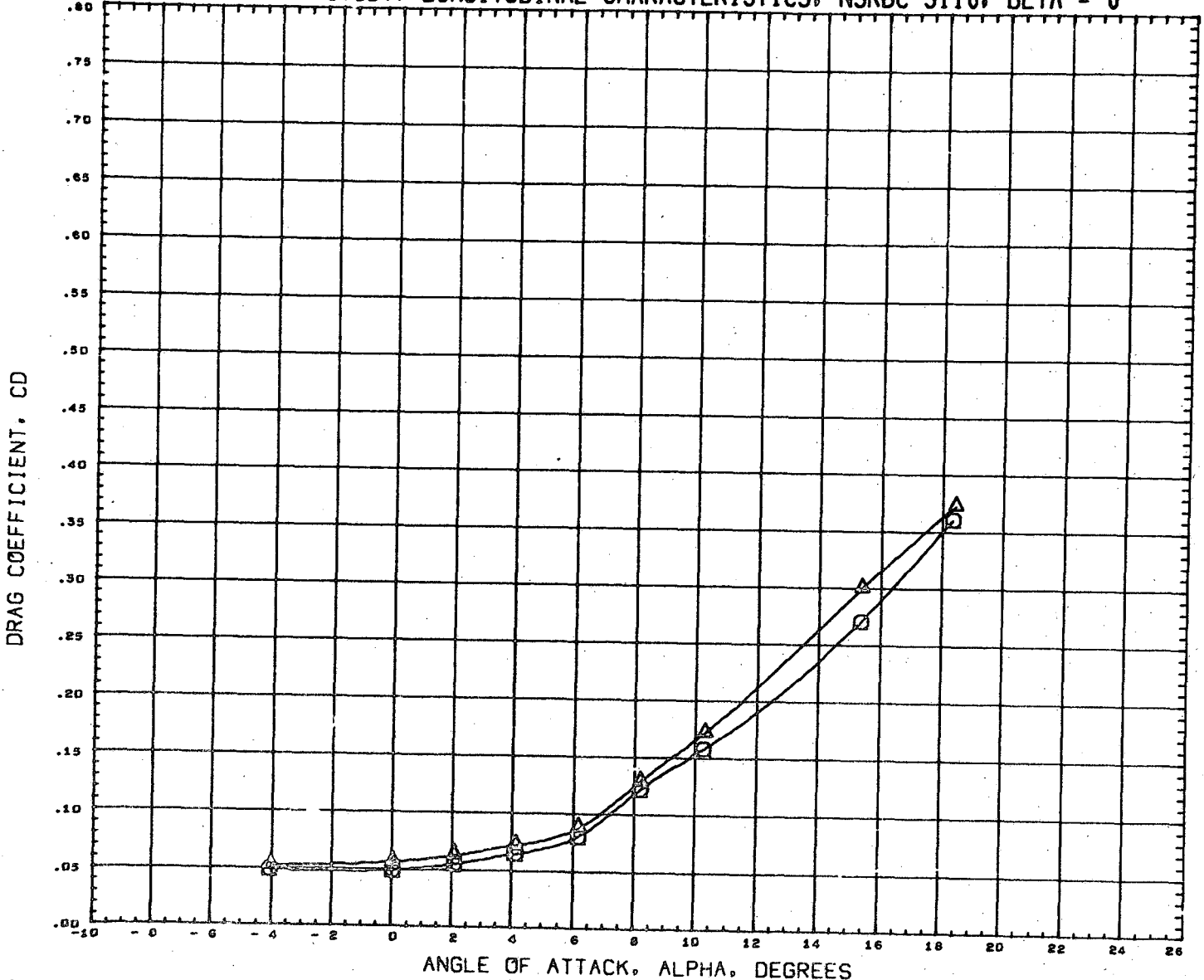
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2293)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2309)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

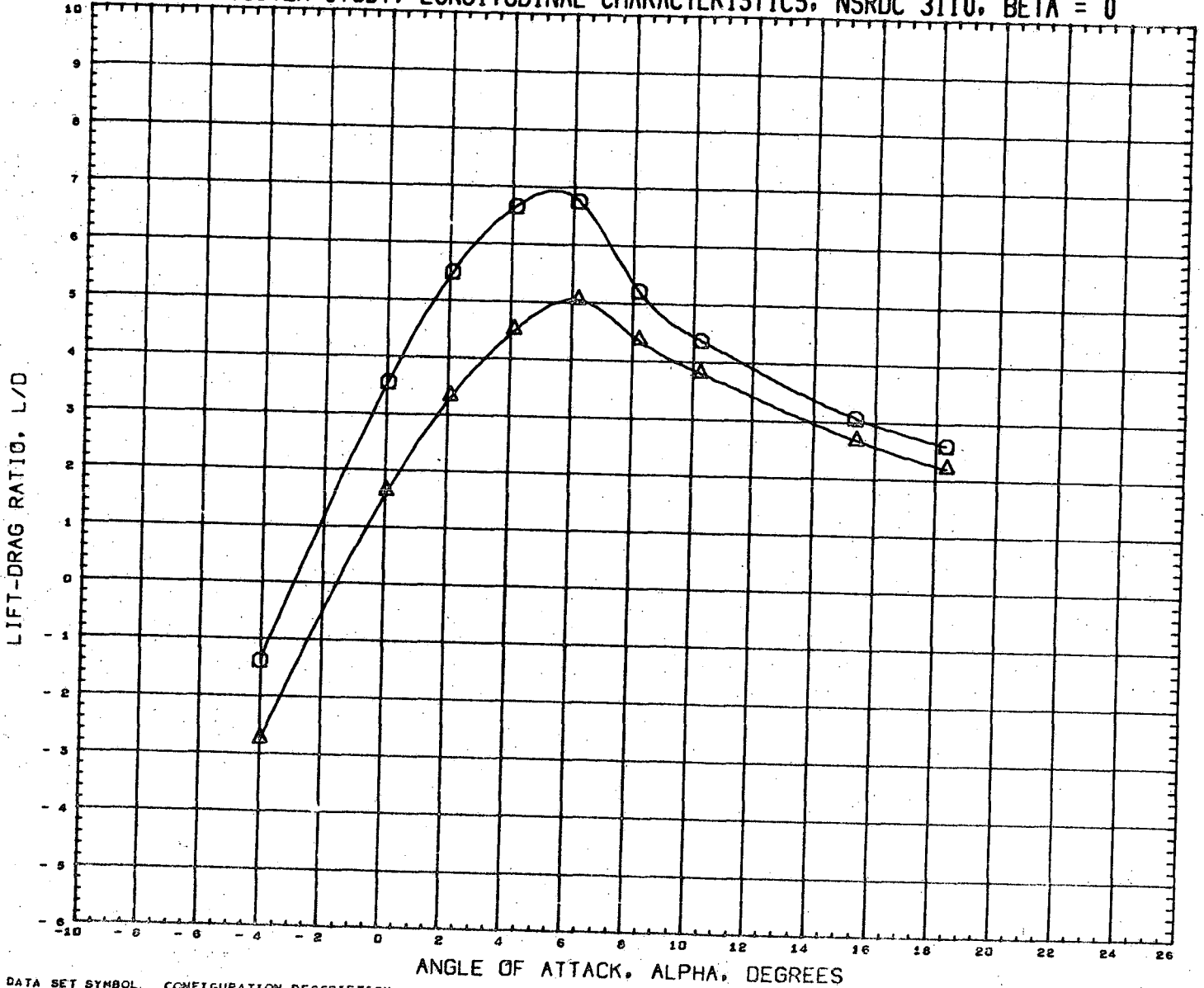
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CHDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2293)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2309)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						YMRP 31.1400 INCHES
						ZMRP 0.0000 INCHES
						ZHRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.361

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2293) \circ
(RN2309) \triangle

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

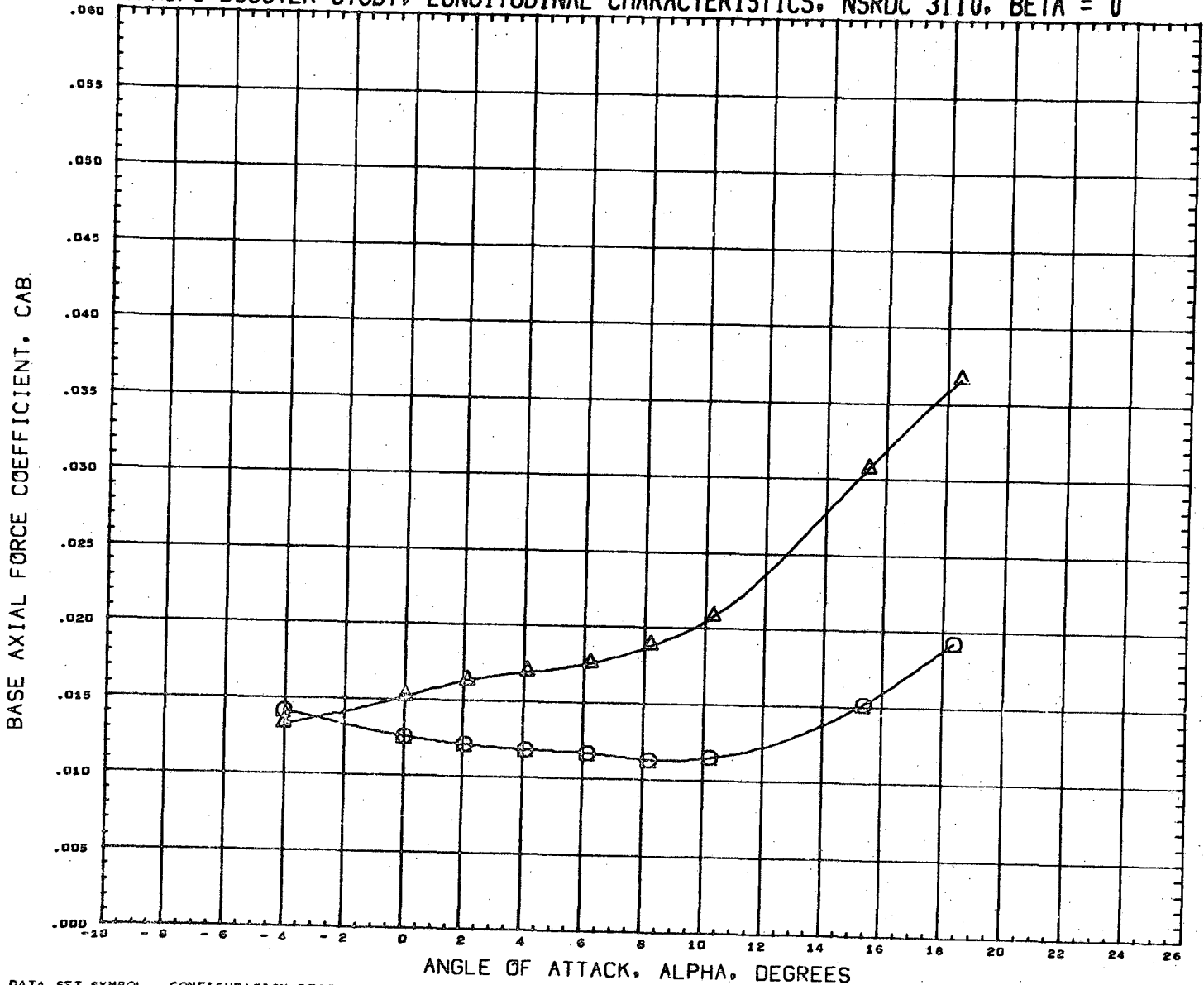
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	98. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

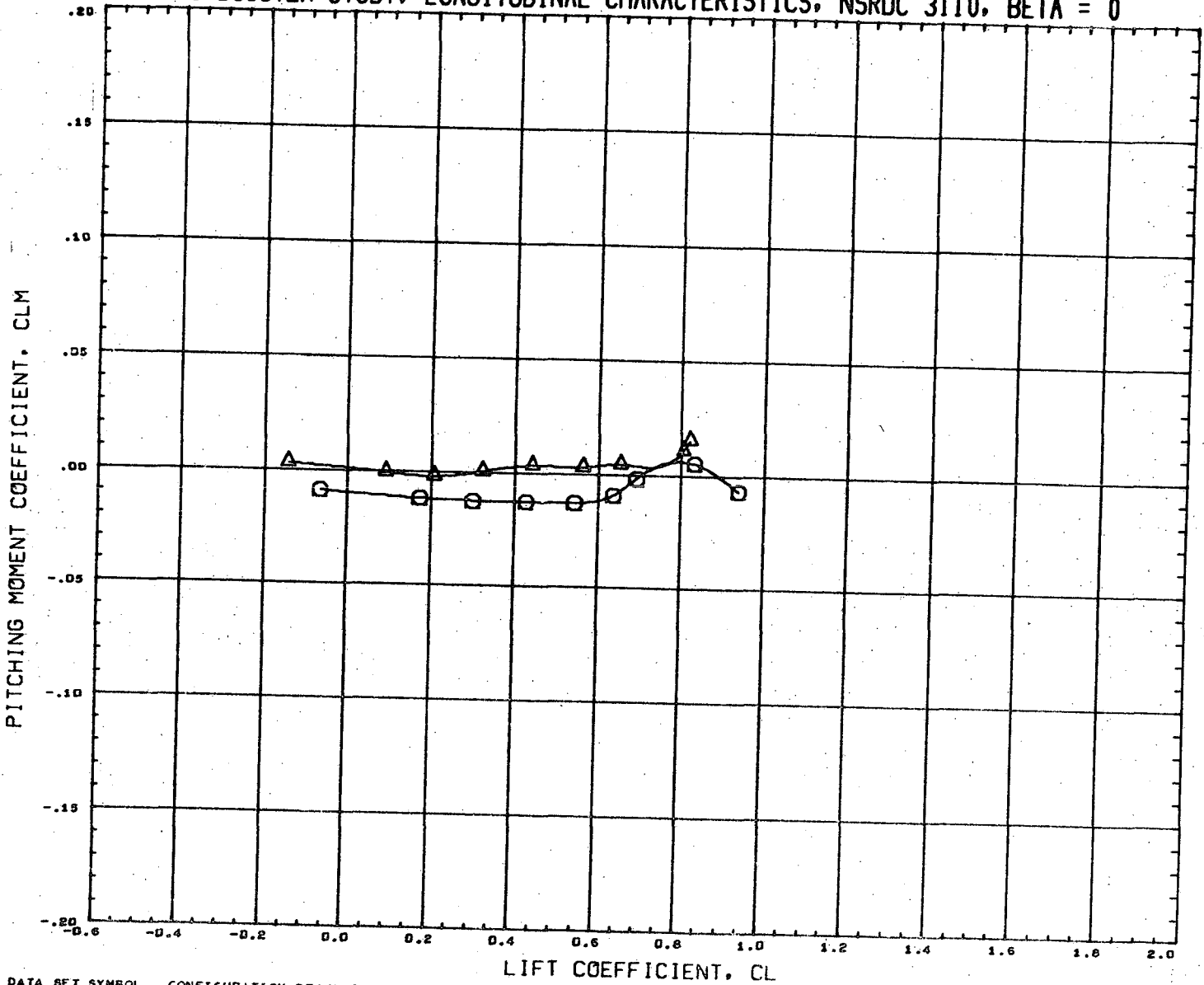
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2293)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2309)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

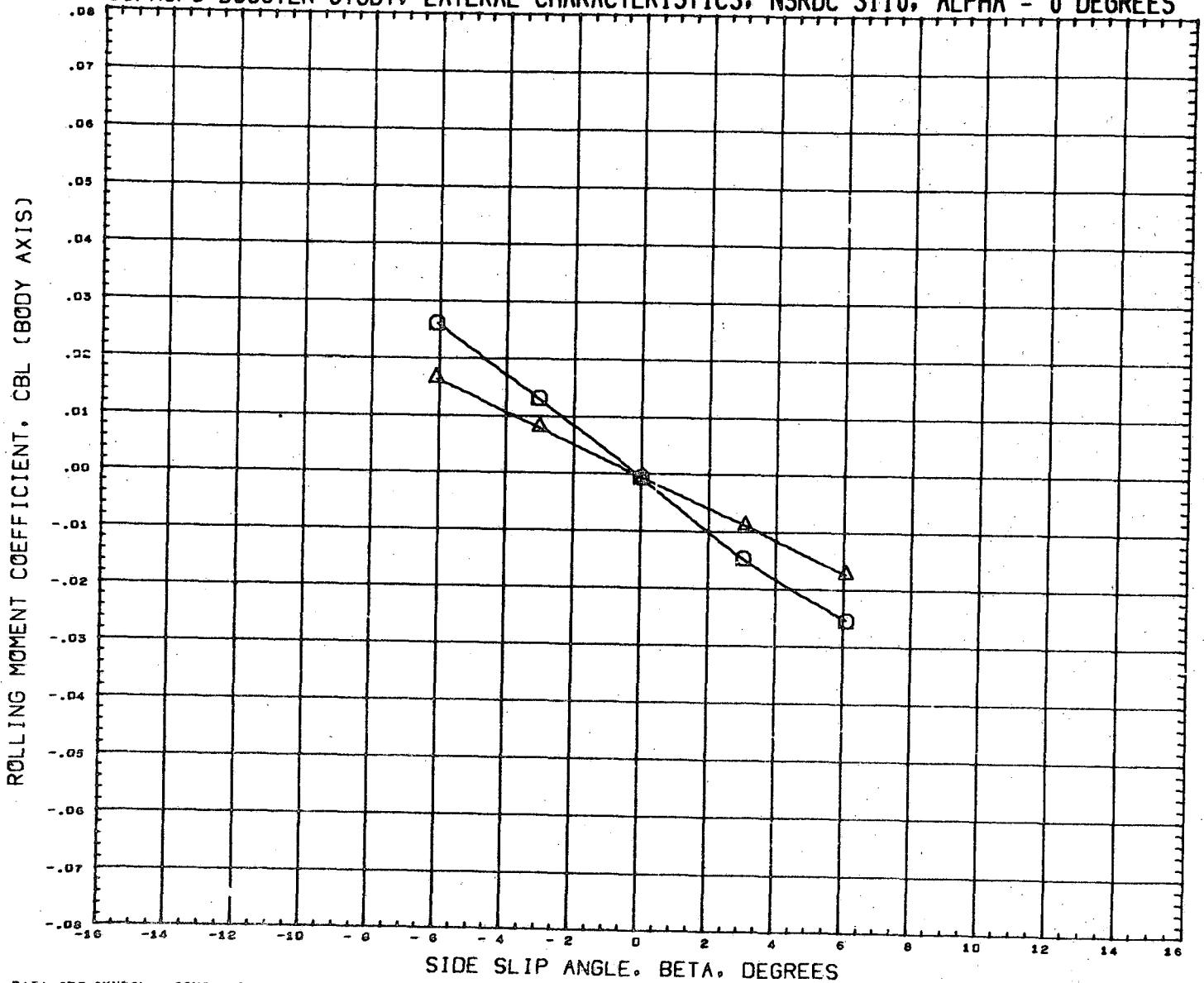
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2293)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2309)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.361

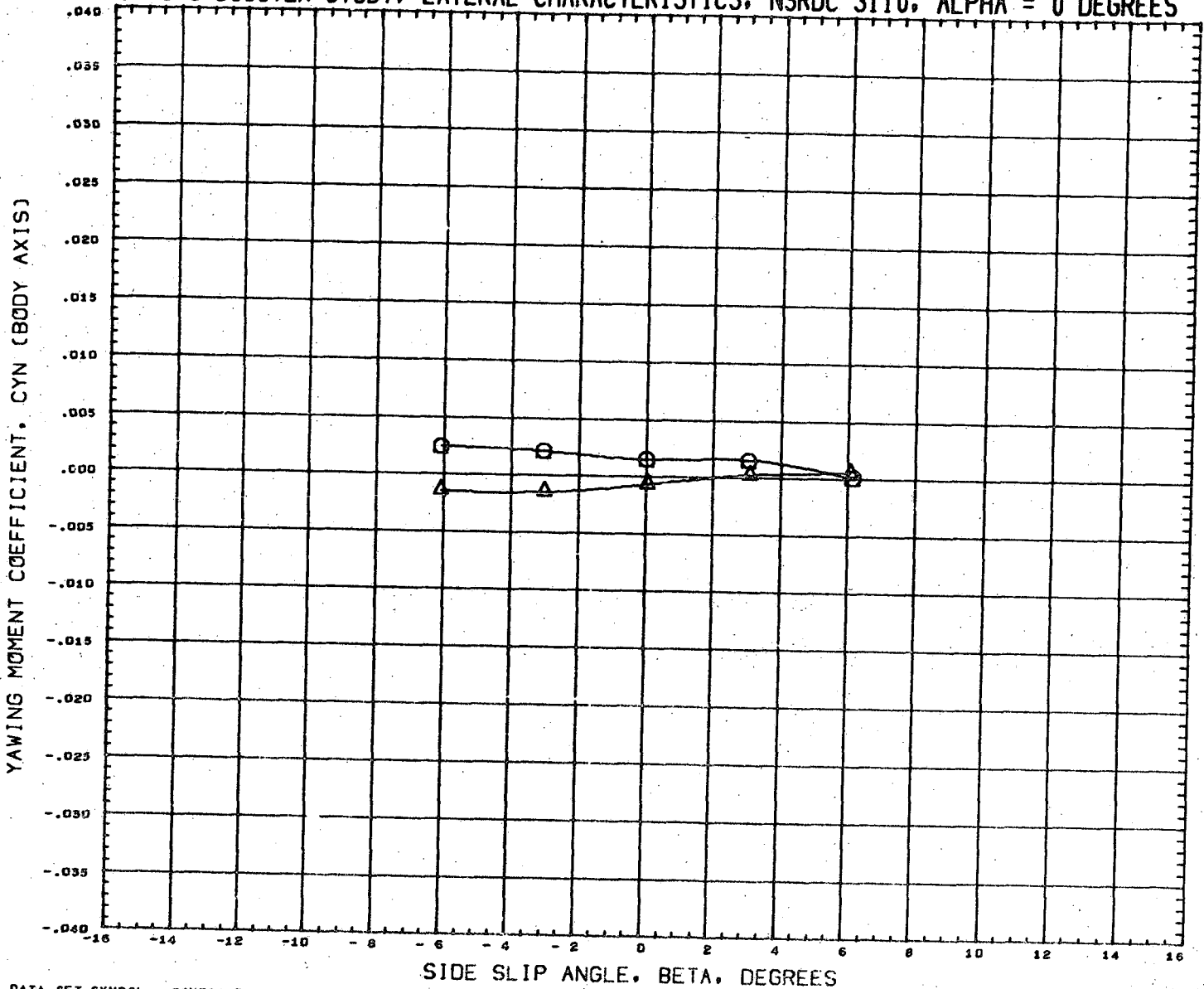
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2294) \circ	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2310) Δ	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2294)
(RN2310)



CONFIGURATION DESCRIPTION

NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

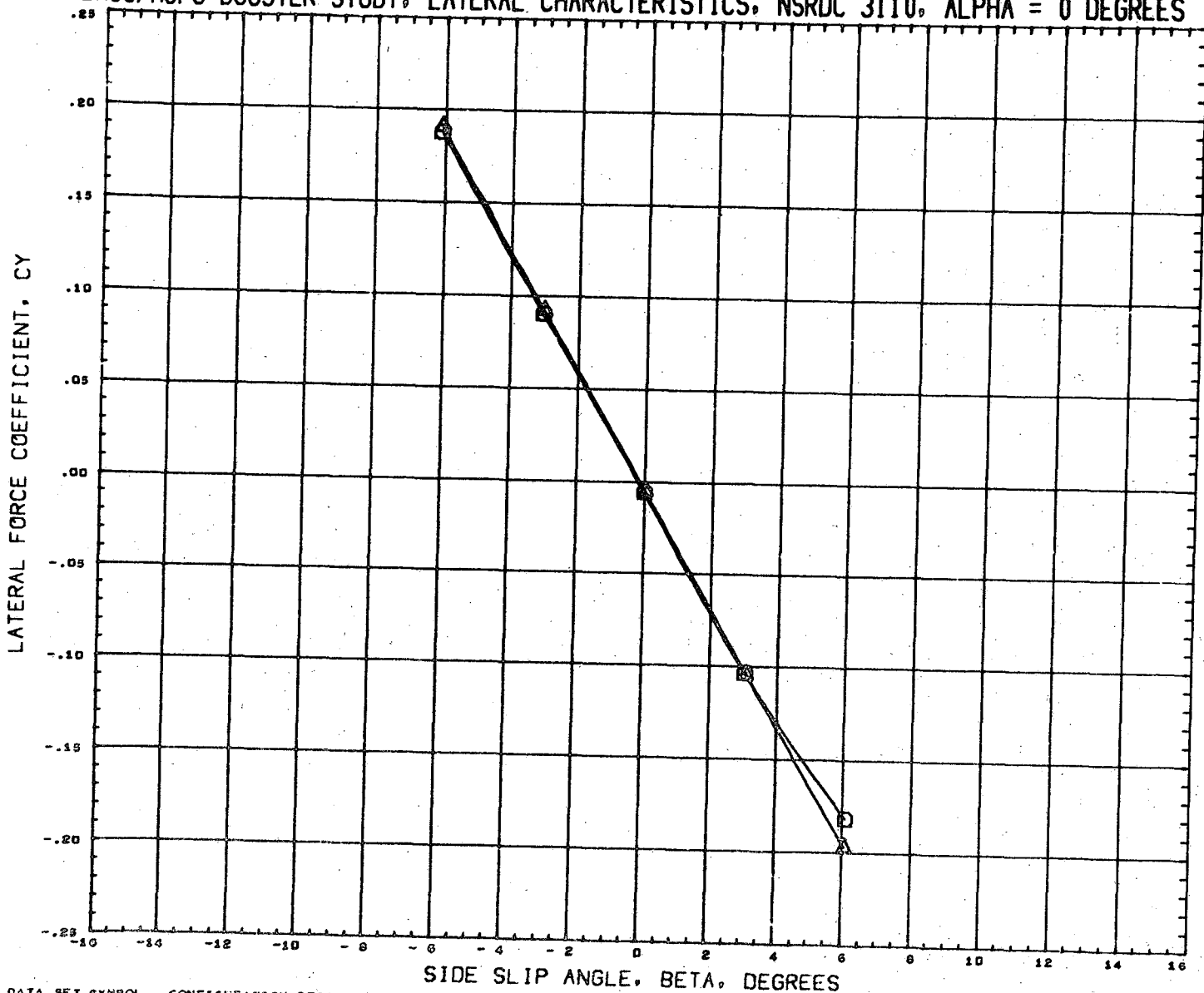
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRF	31.1400	INCHES
YMRF	0.0000	INCHES
ZMRF	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2294)
(RN2310)



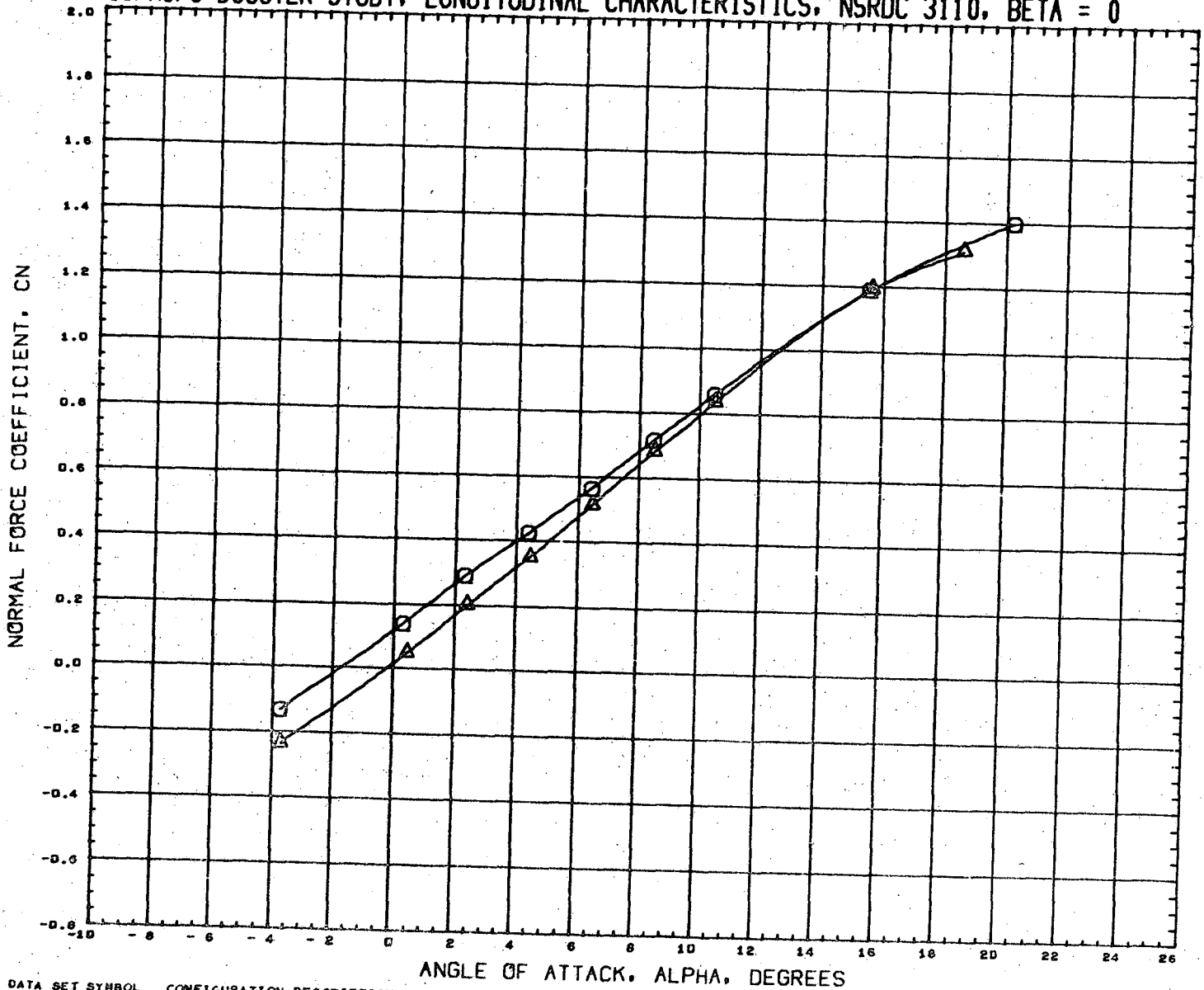
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1



INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2005) 
(RN2021) 

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

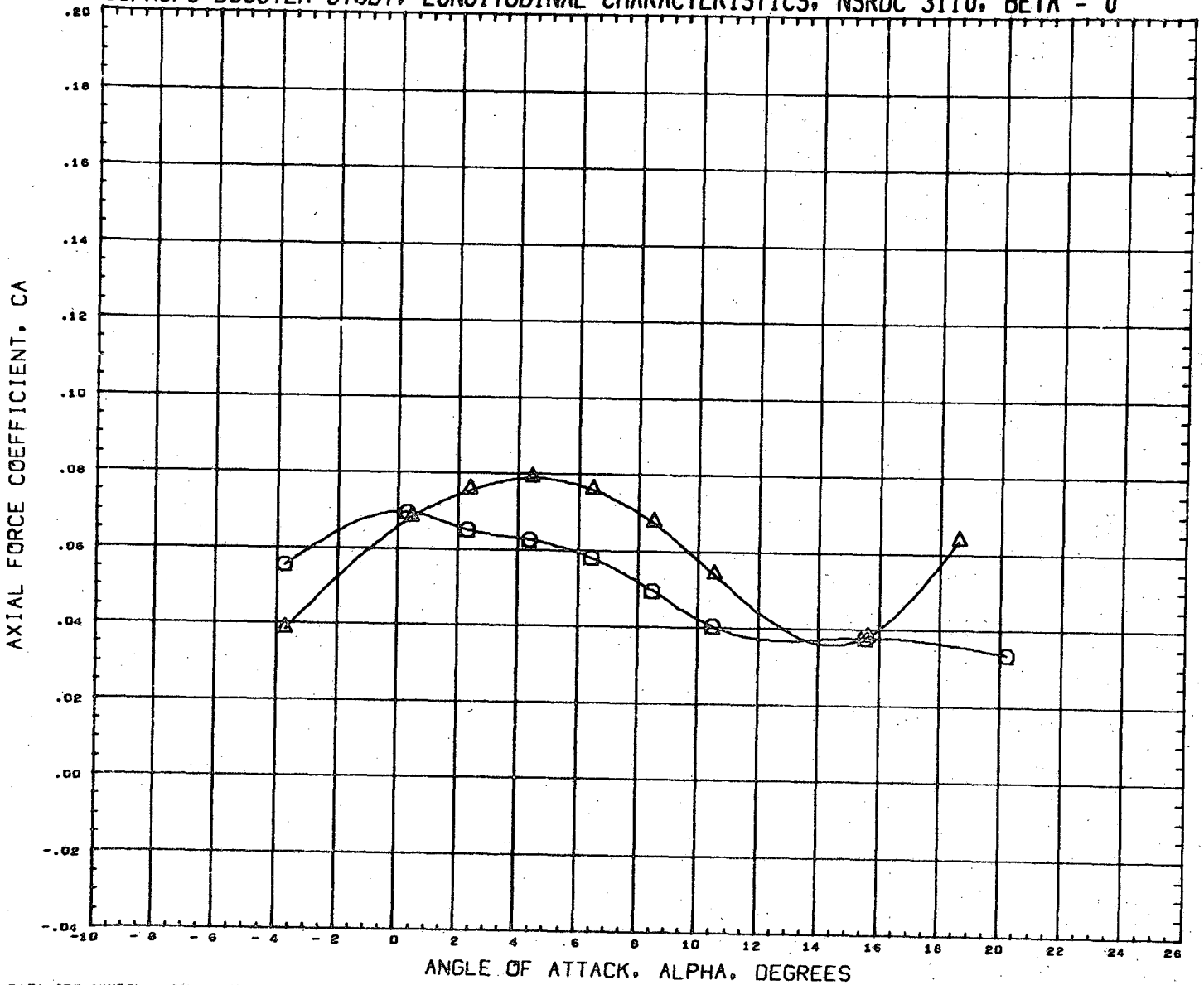
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.379

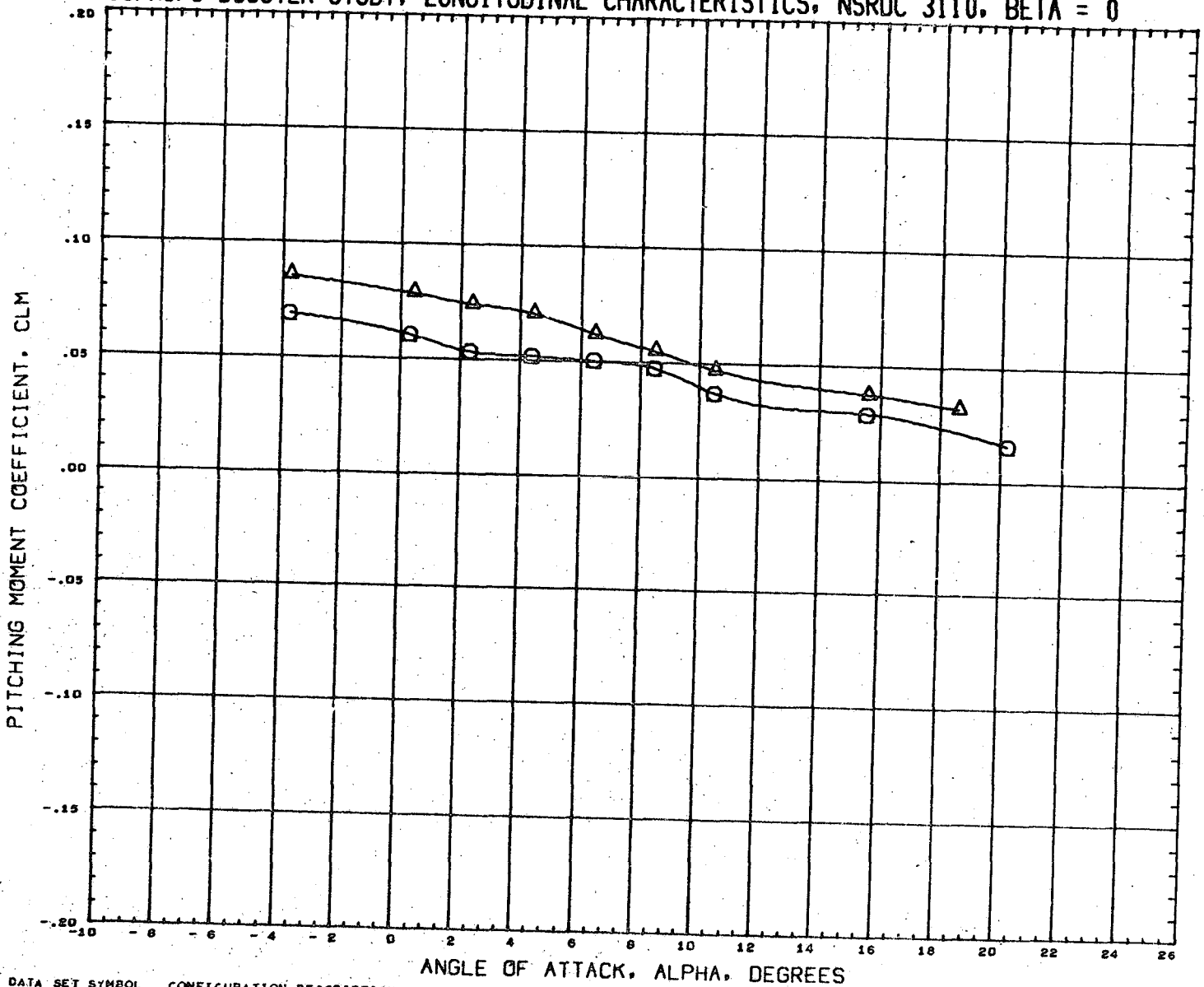
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2021)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

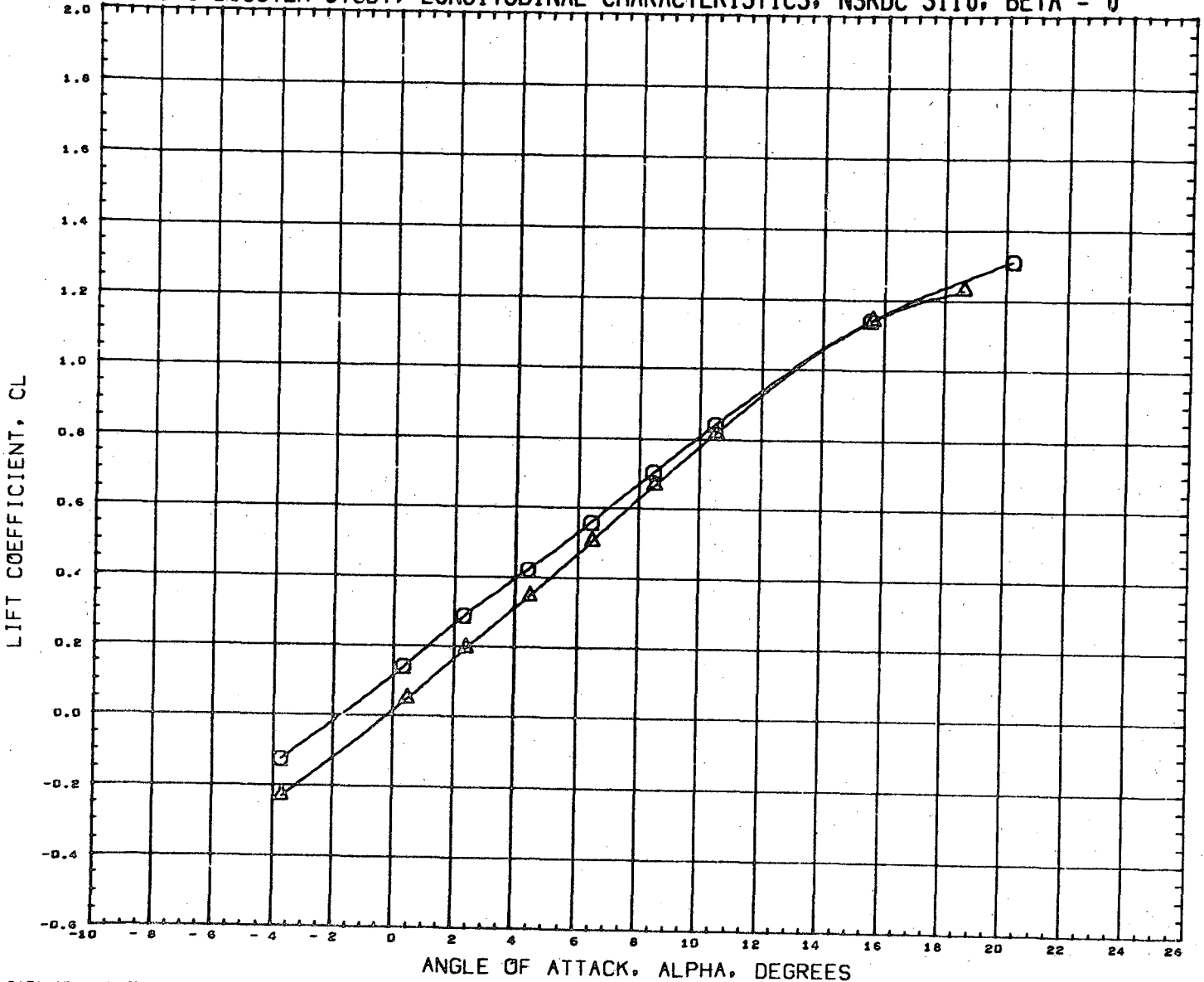
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2005)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2021)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



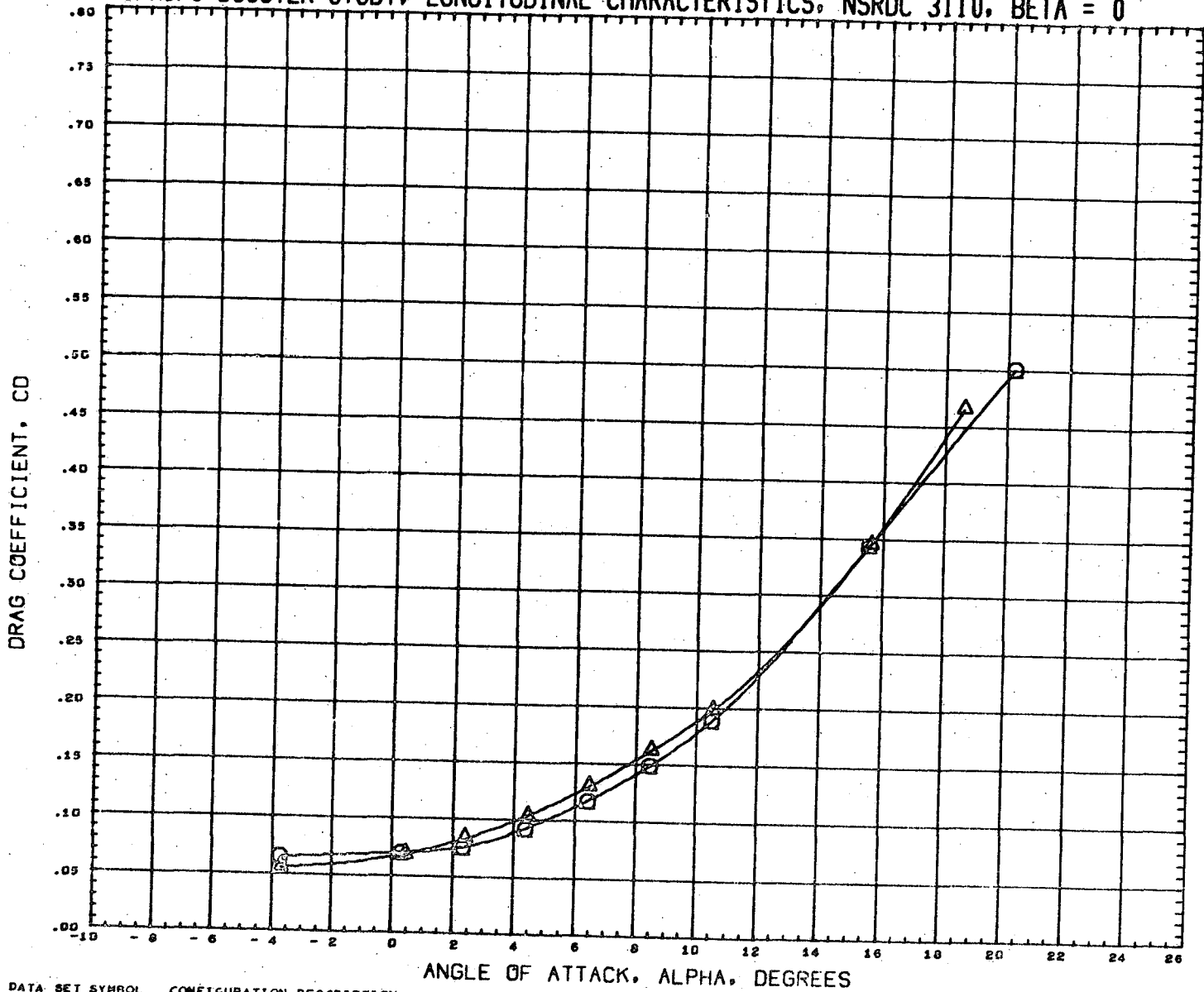
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RM2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
(RM2021)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2021)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.379

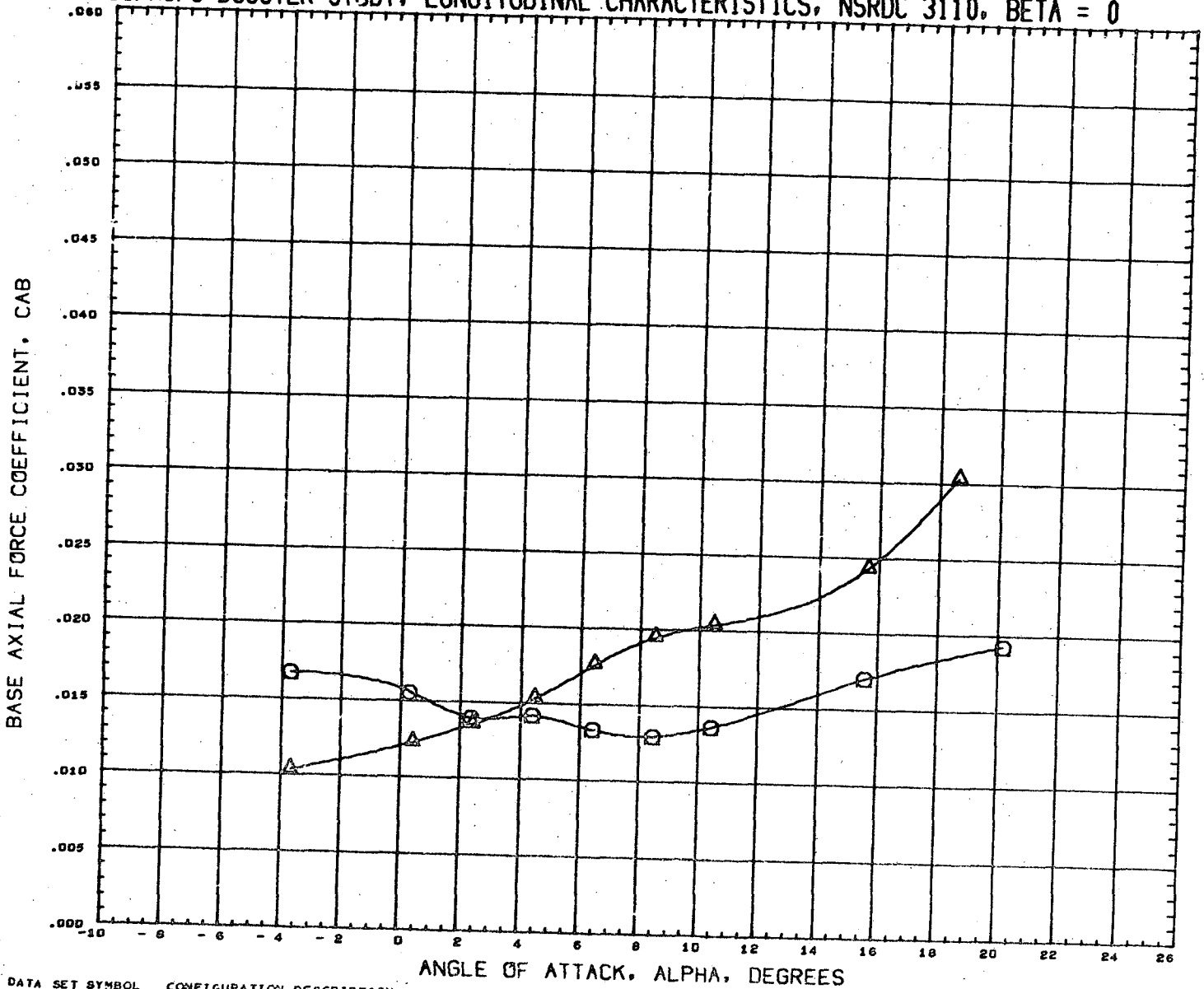
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RM2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RM2021)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XNRP	31.1400 INCHES
						YNRP	0.0000 INCHES
						ZNRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

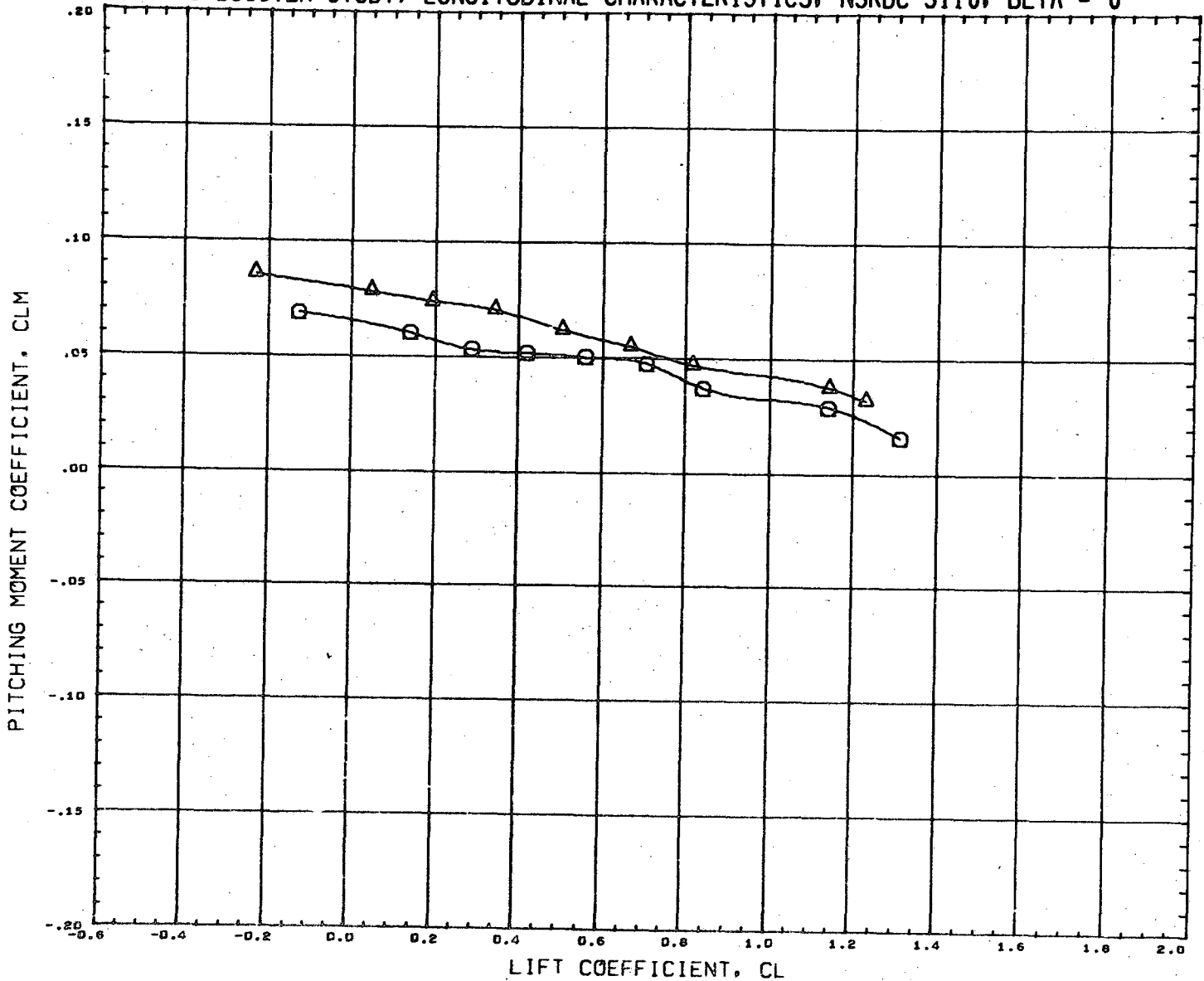


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2005)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V1
(RN2021)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
				BREF 41.4360 INCHES
				XMRP 31.1400 INCHES
				YMRP 0.0000 INCHES
				ZMRP 0.2250 INCHES
				SCALE 1.5000 PERCENT

MACH 0.379

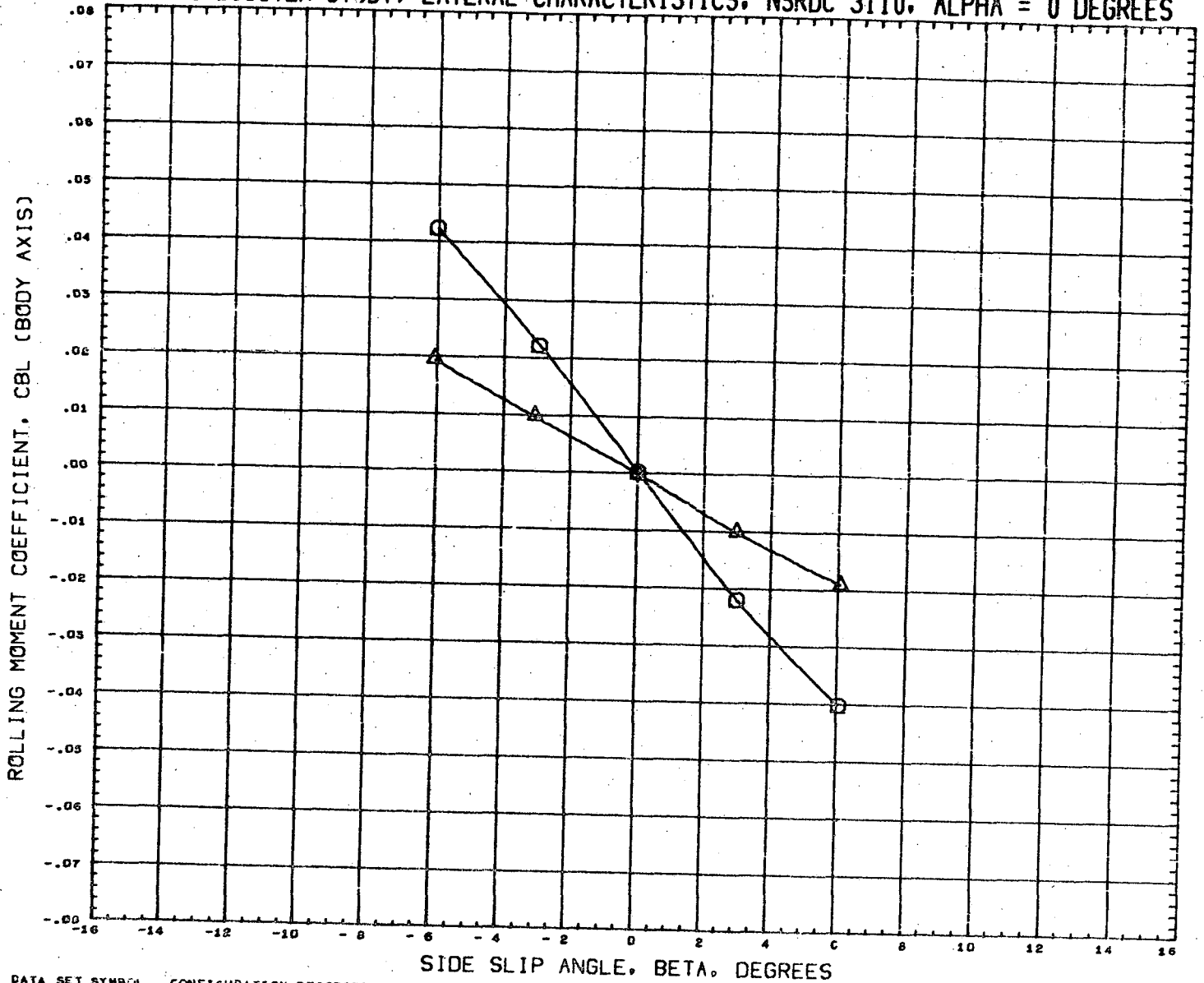
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2005)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2021)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2006)
(RN2022)

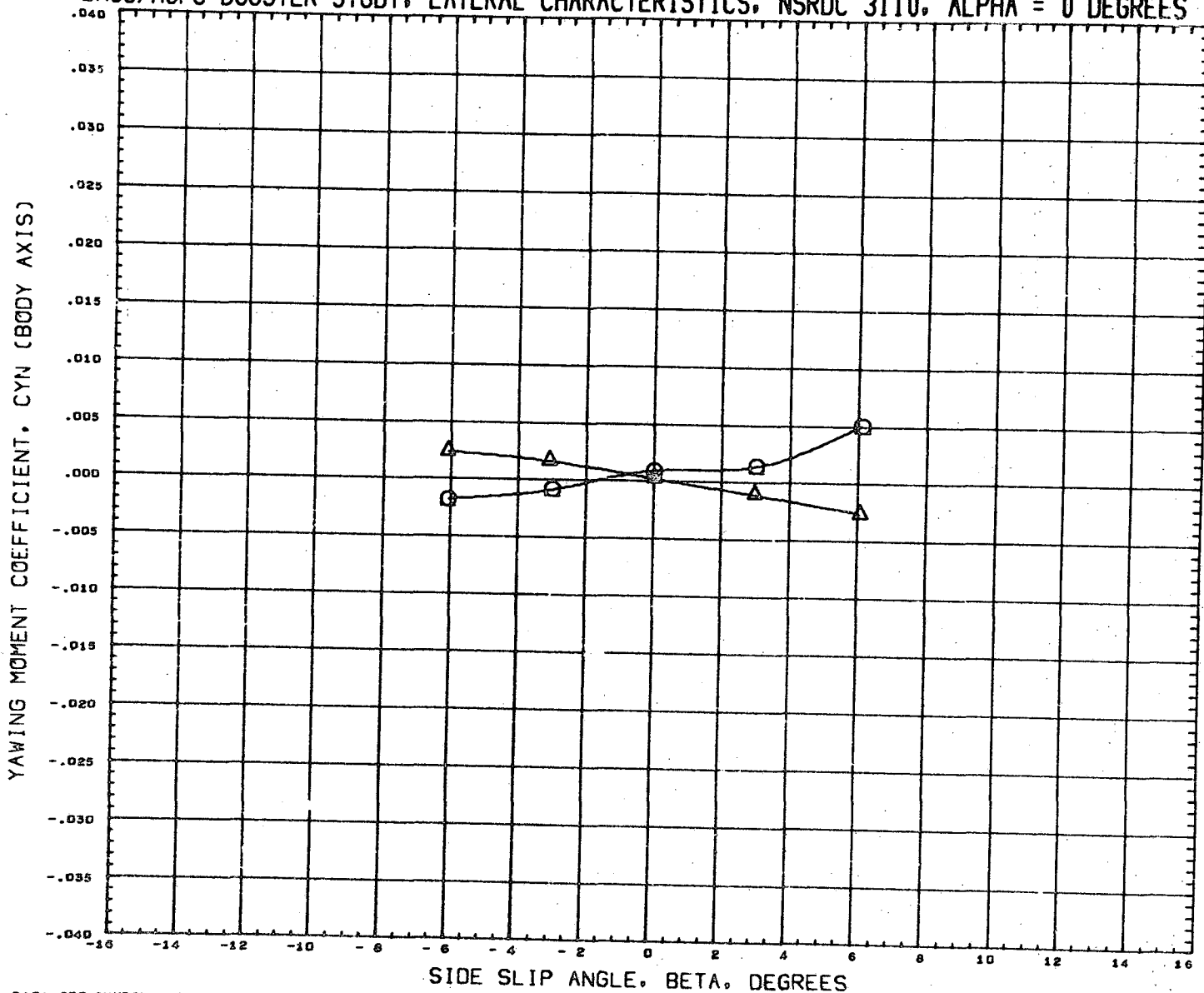
CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2006) ○
(RN2022) △

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

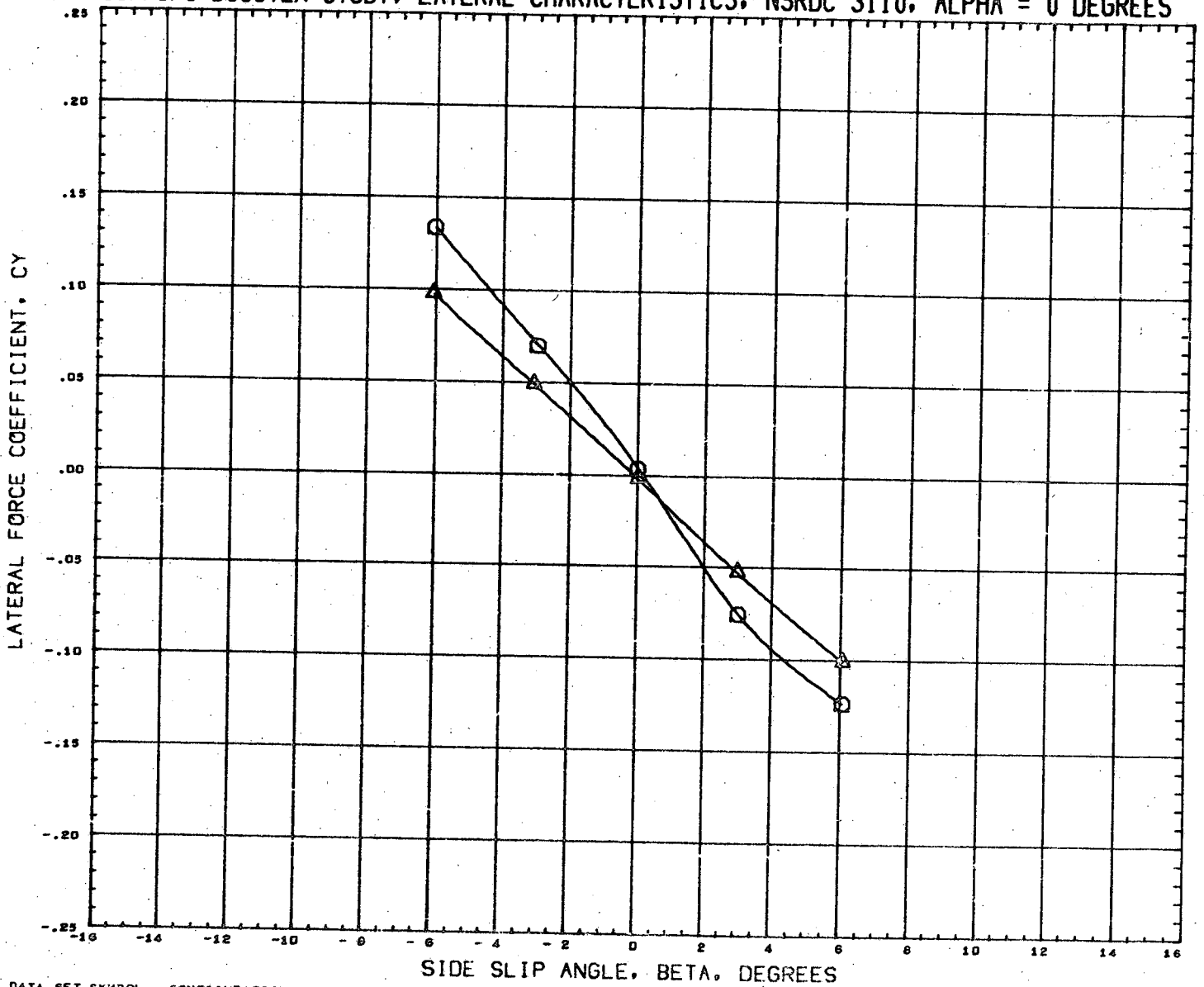
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	sq. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRF	31.1400	INCHES
YMRF	0.0000	INCHES
ZMRF	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

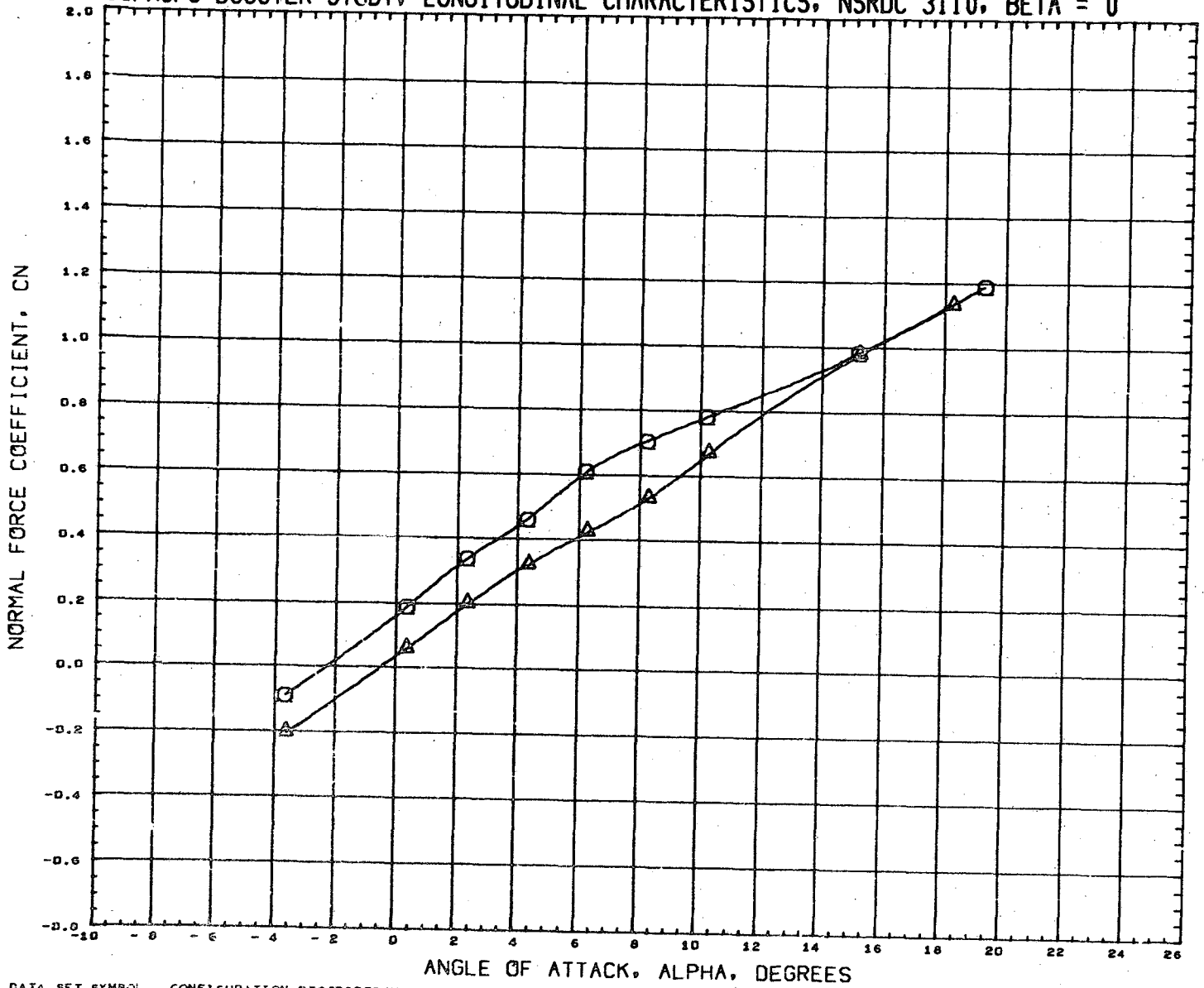
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2006)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2022)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

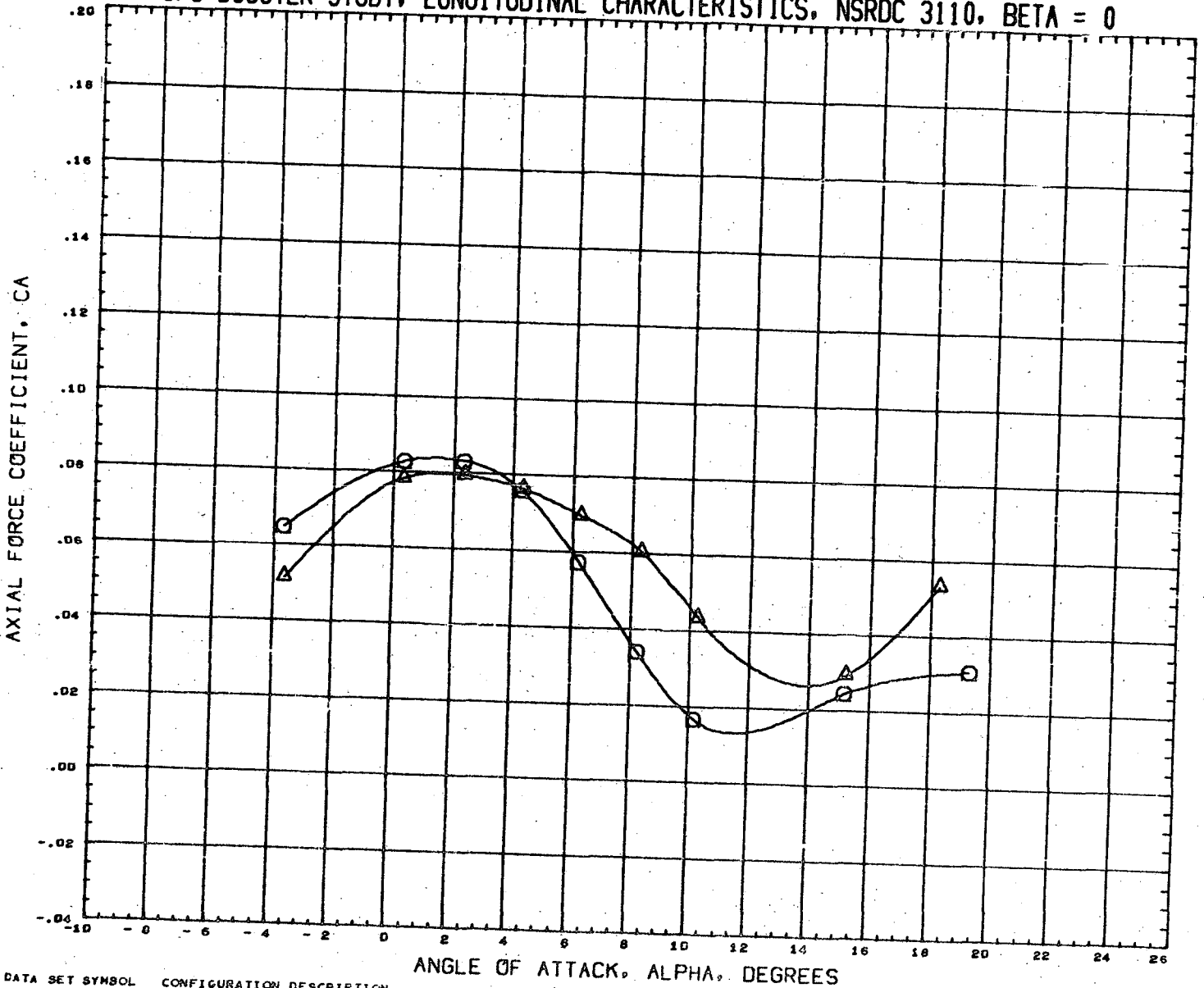
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH D.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2013)
(RN2029)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

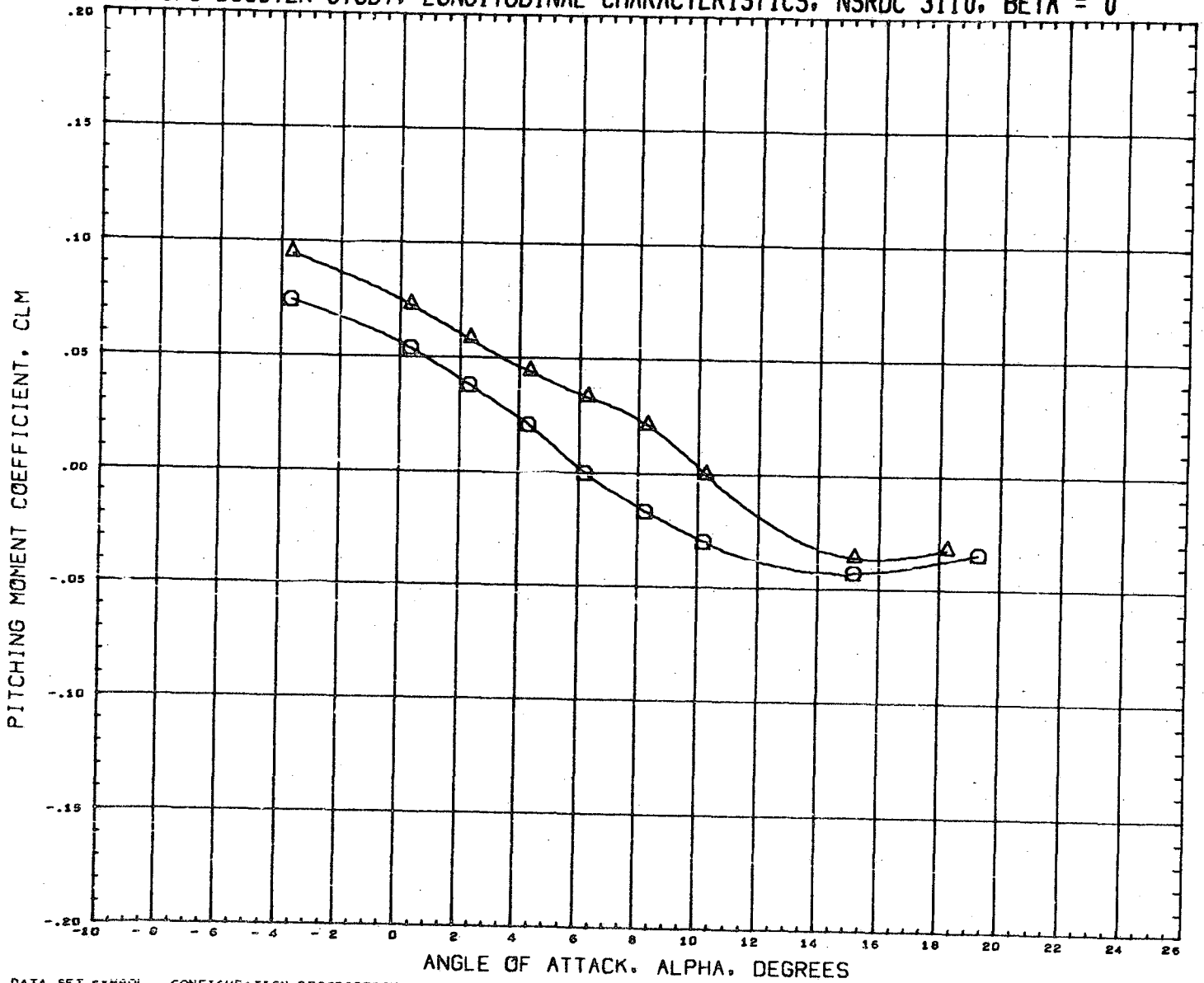
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.382

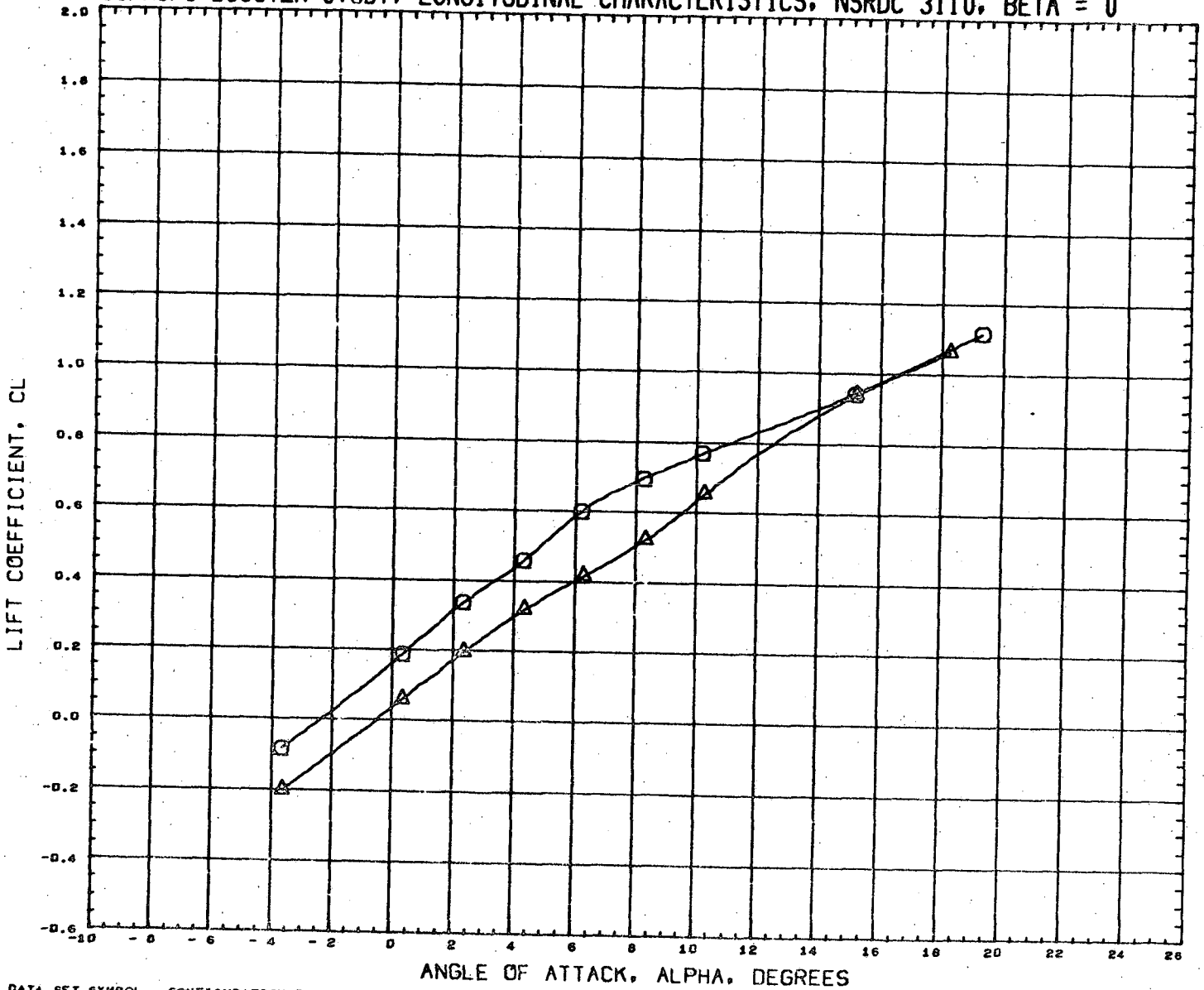
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2029)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

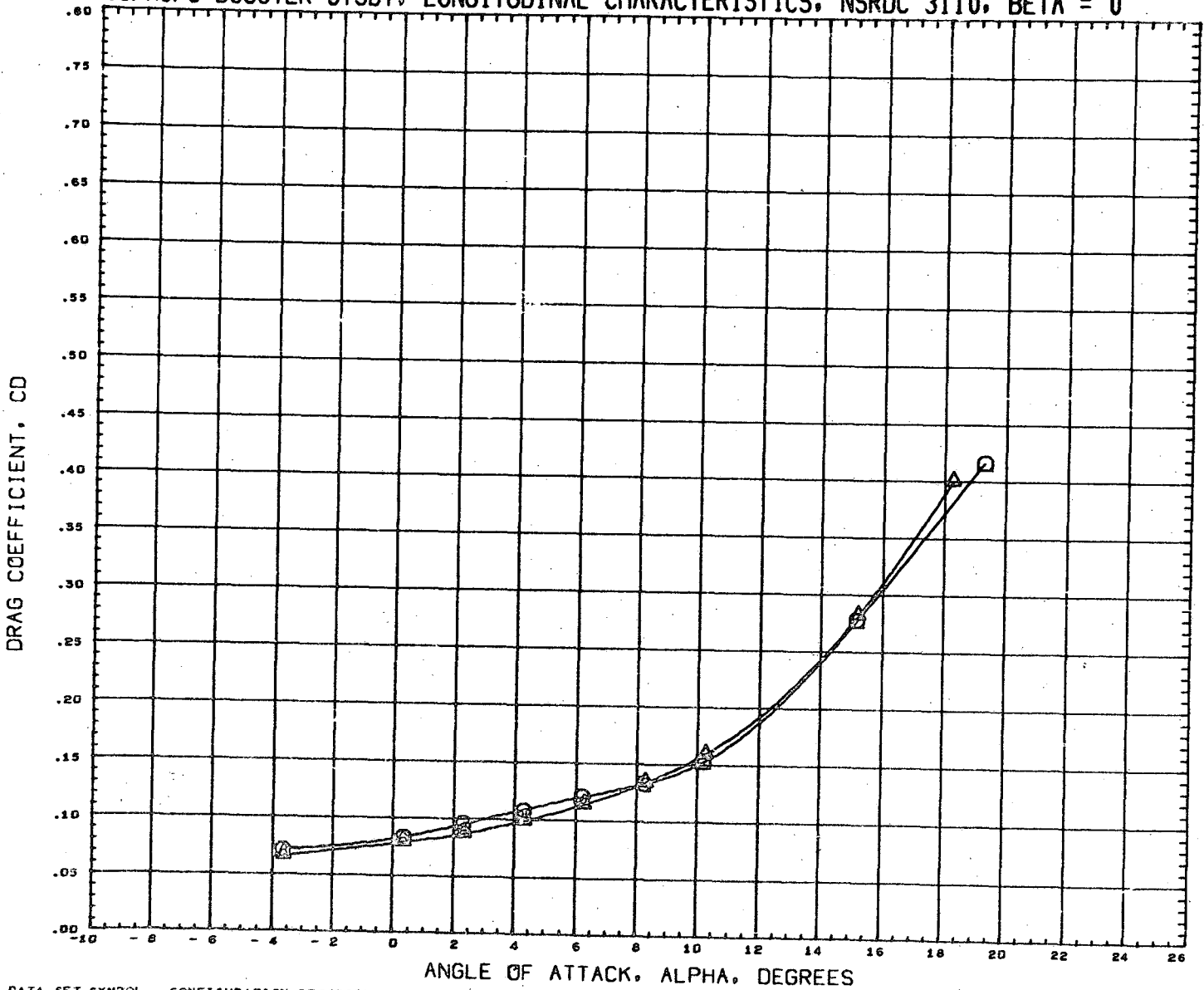
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2013) 
(RN2929) 

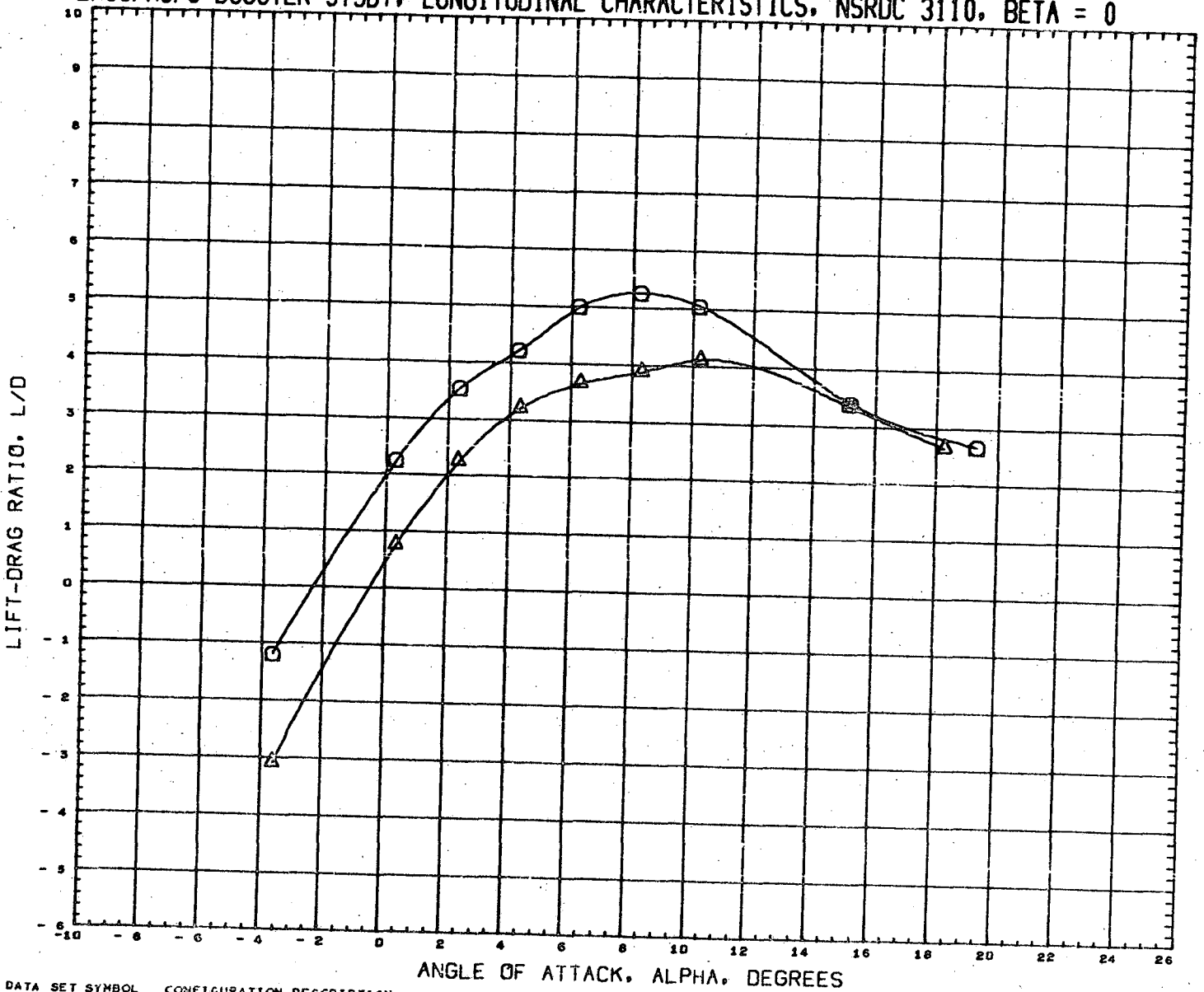
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.362

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

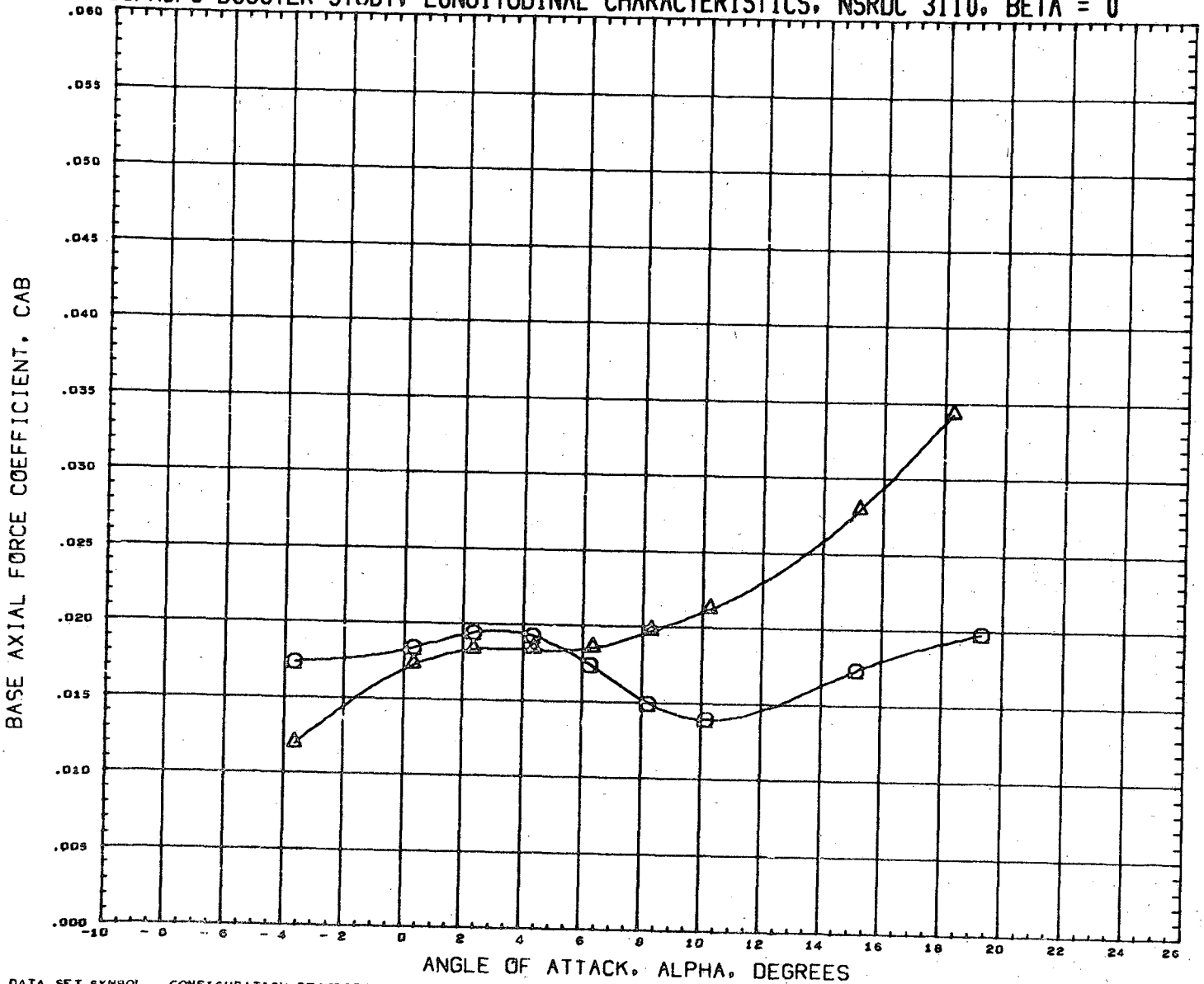


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1
(RN2029)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
				BREF 41.4360 INCHES
				XMRP 31.1400 INCHES
				YMRP 0.0000 INCHES
				ZMRP 0.2250 INCHES
				SCALE 1.5000 PERCNT

MACH 0.582

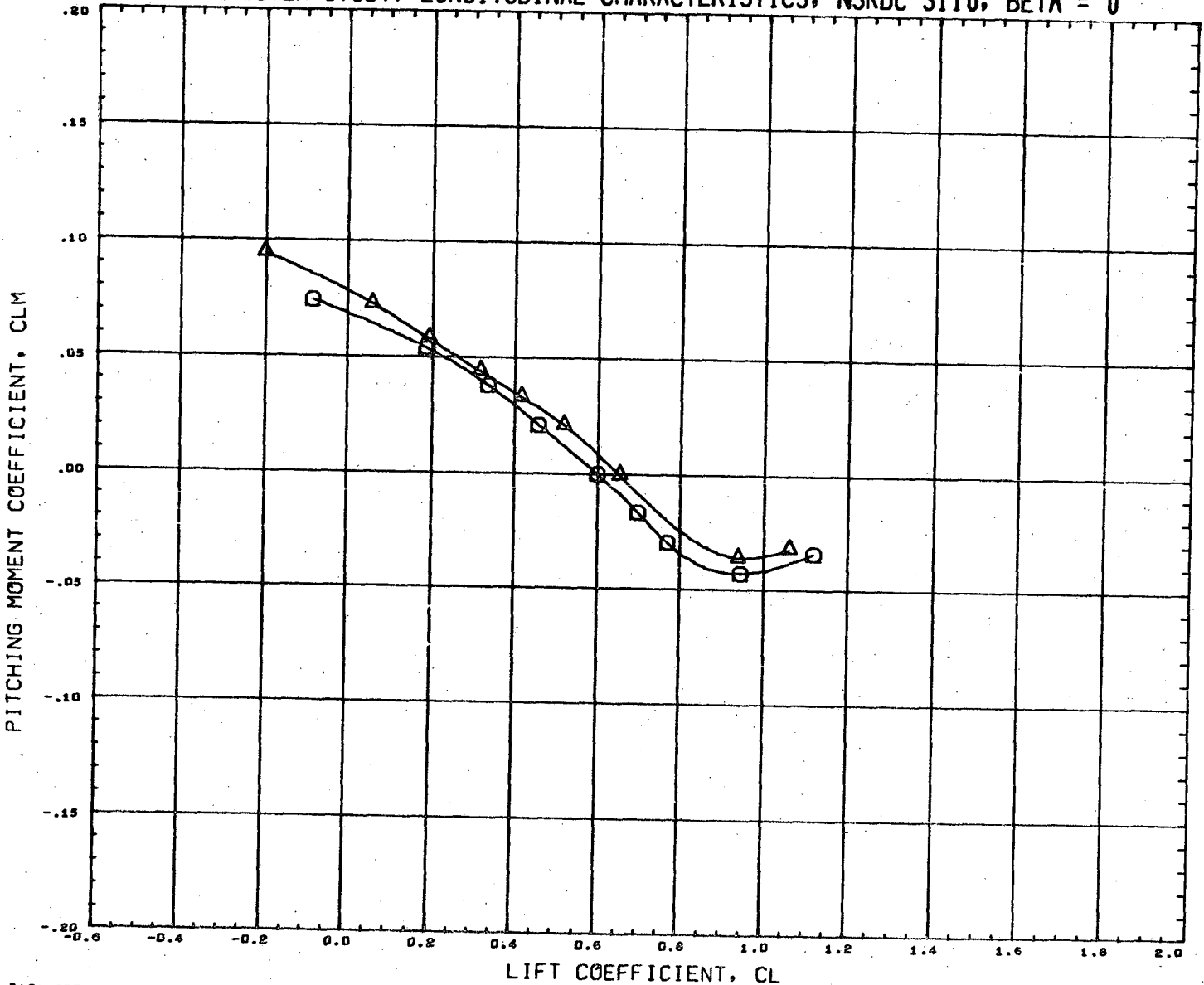
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2029)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

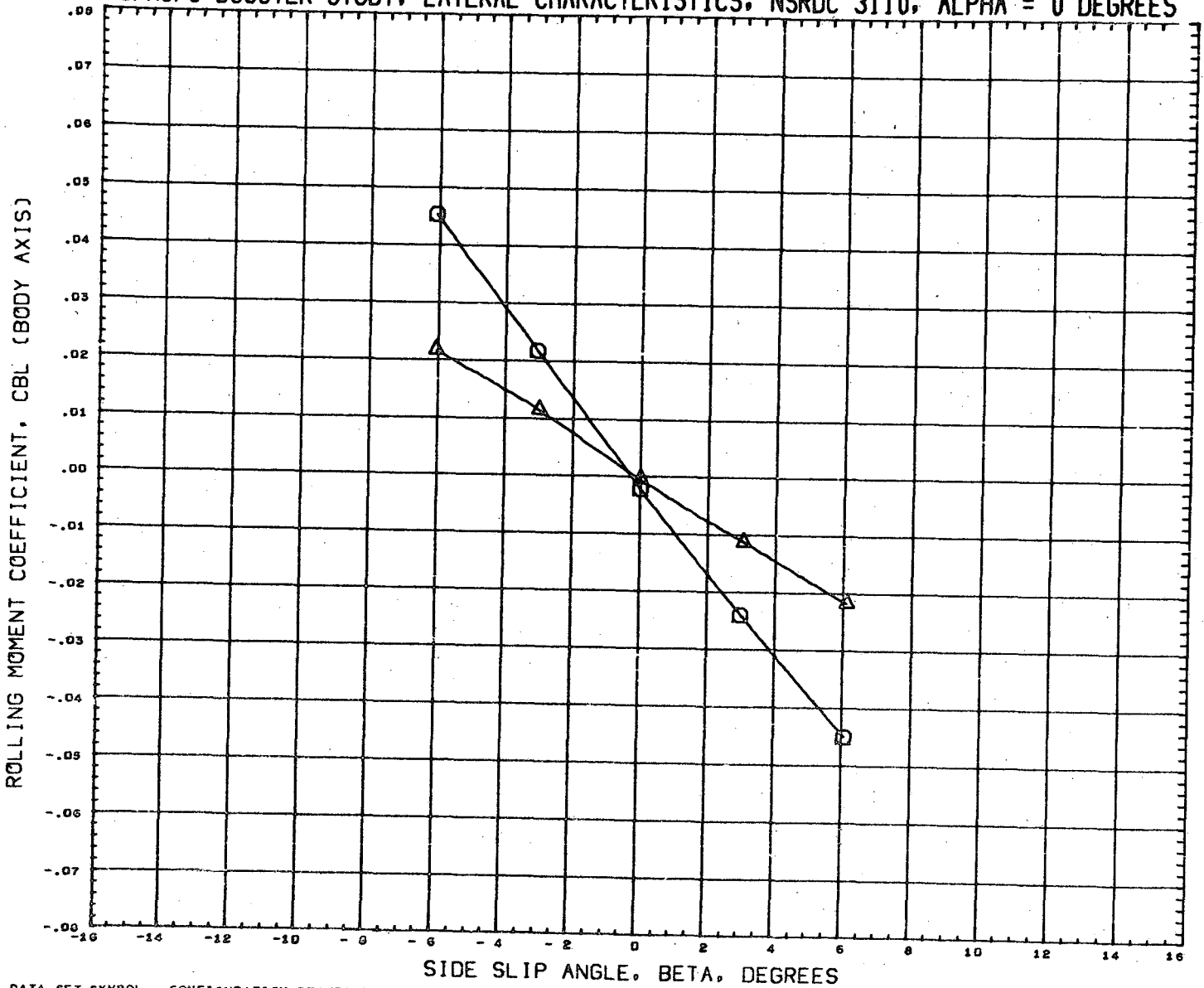
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2013)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2029)	NSRDC-3110,MSFC/LHSC BOOSTER B1C2F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2014) 
(RN2030) 

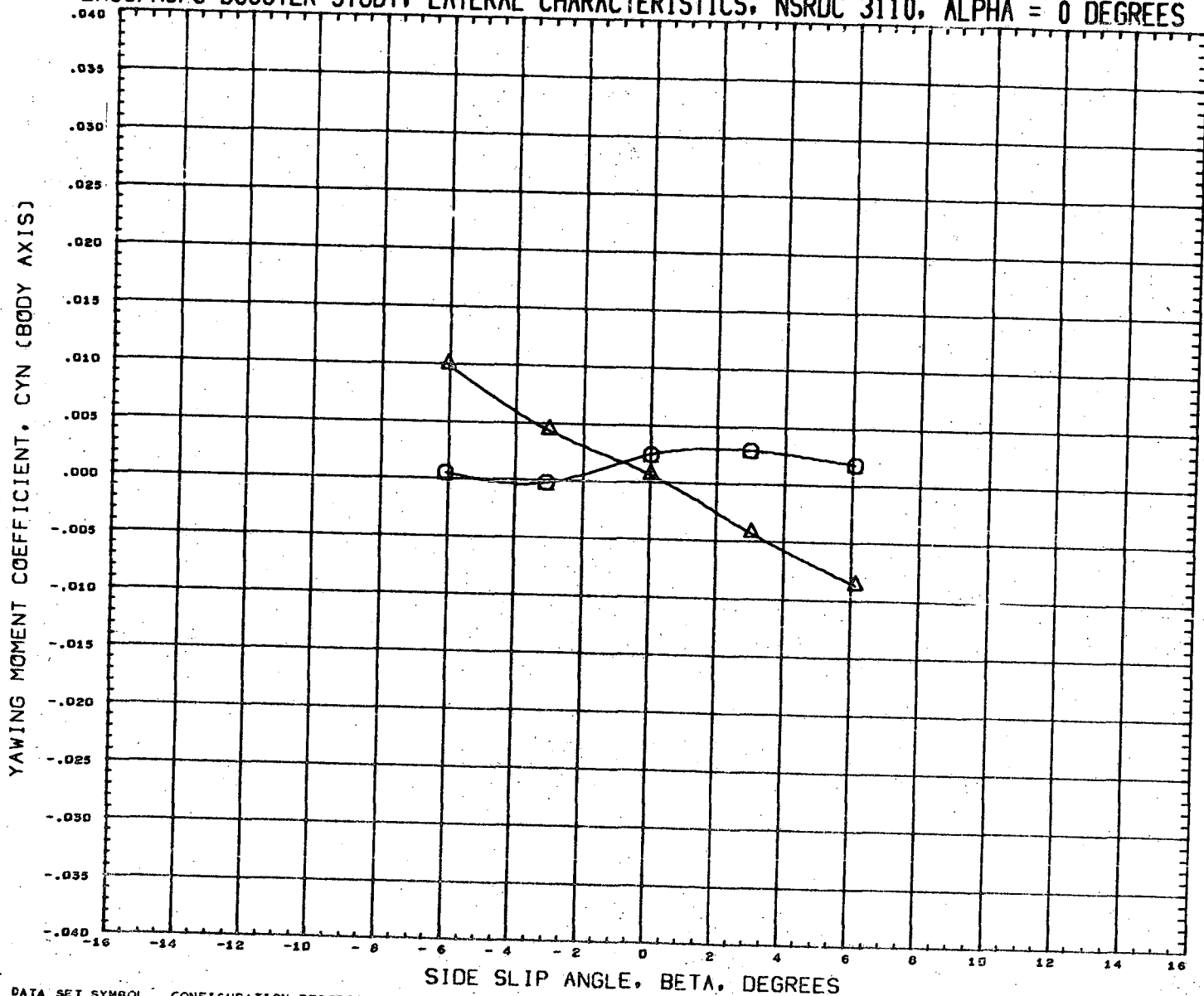
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRF	31.1400 INCHES
YMRF	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2014)
(RN2030)



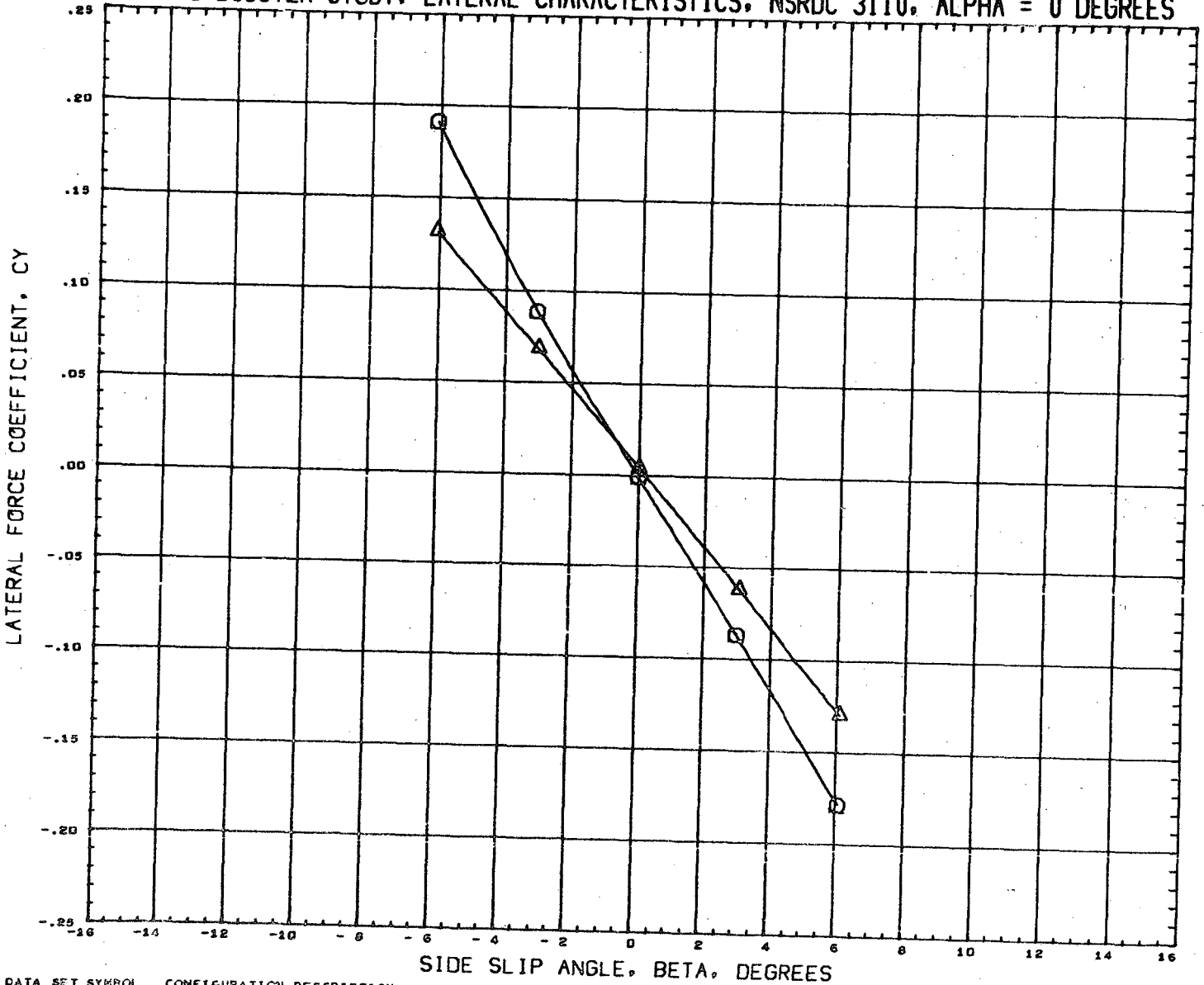
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGFOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.391

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



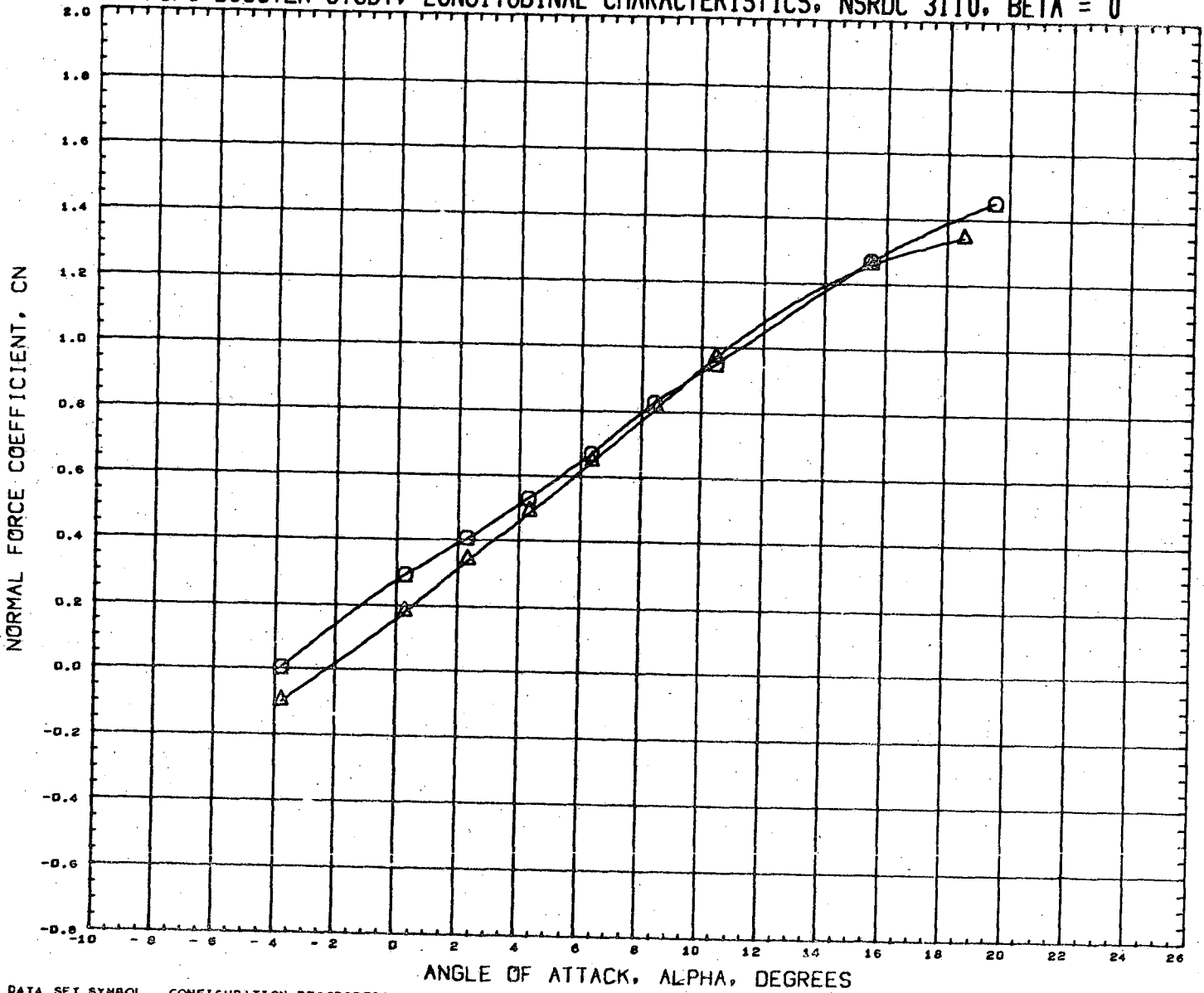
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2014) Q NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W1V1
 (RN2030) A NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2229) □
(RN2245) △

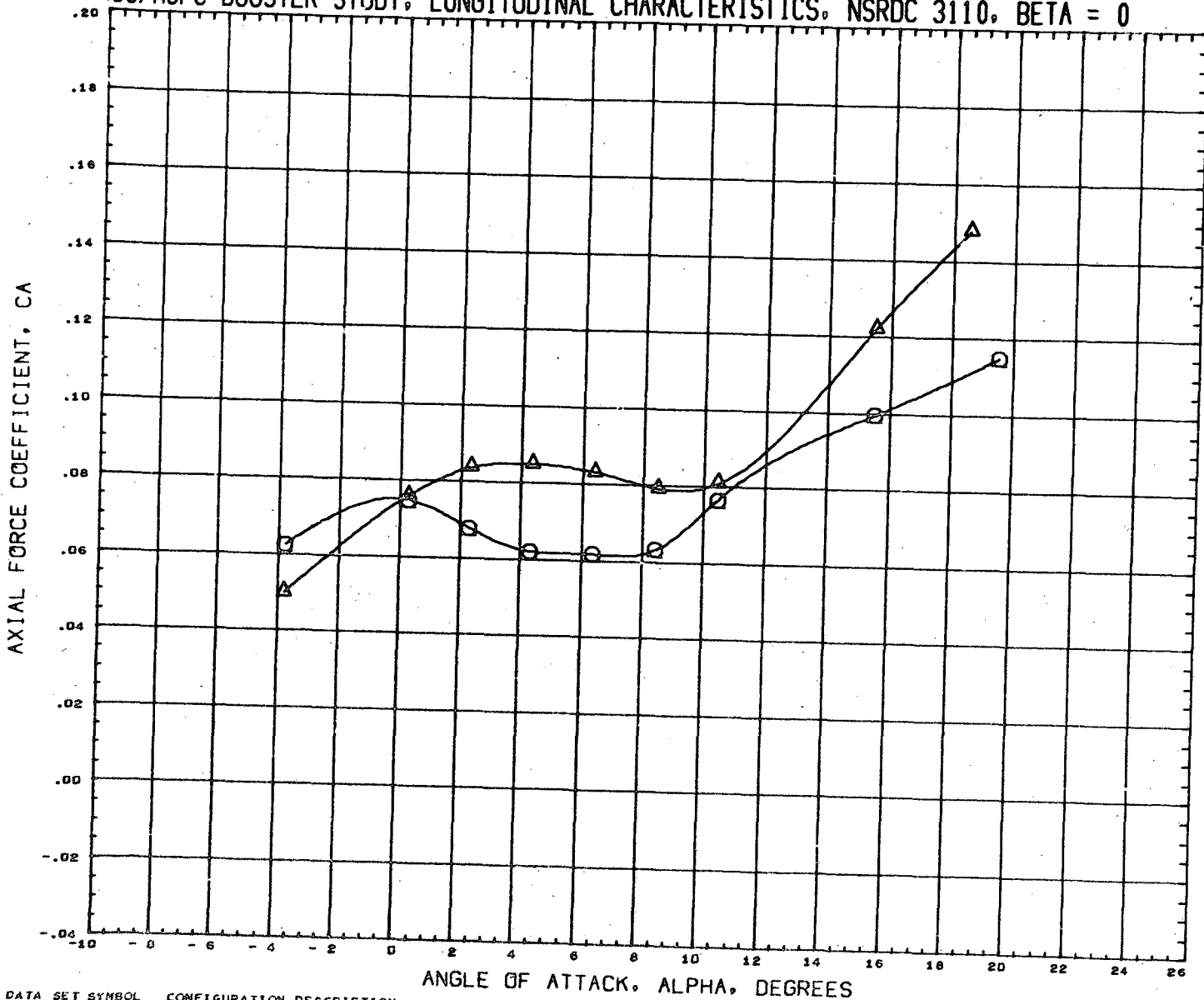
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



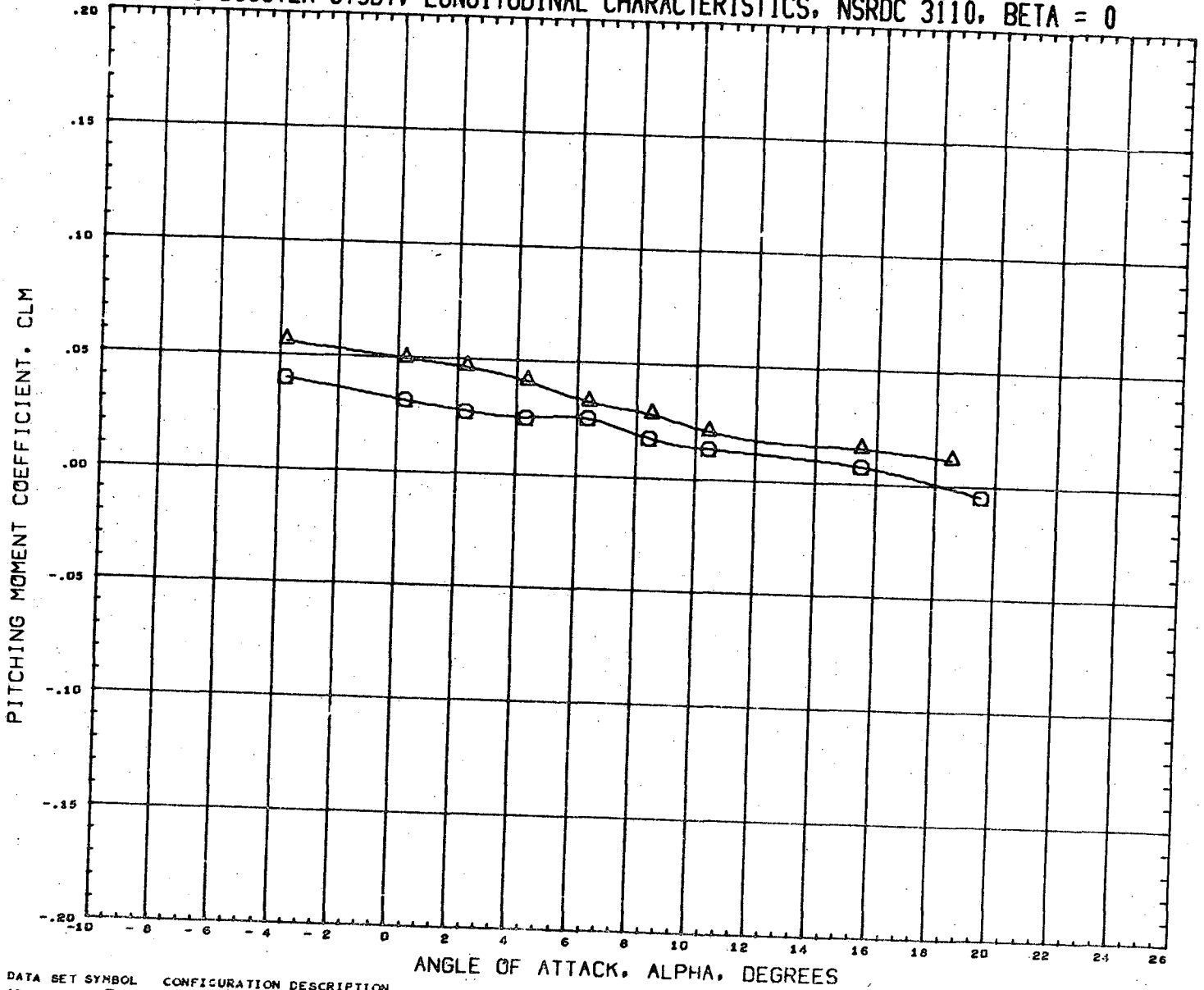
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2229)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
(RN2245)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2229)
(RN2245)



CONFIGURATION DESCRIPTION

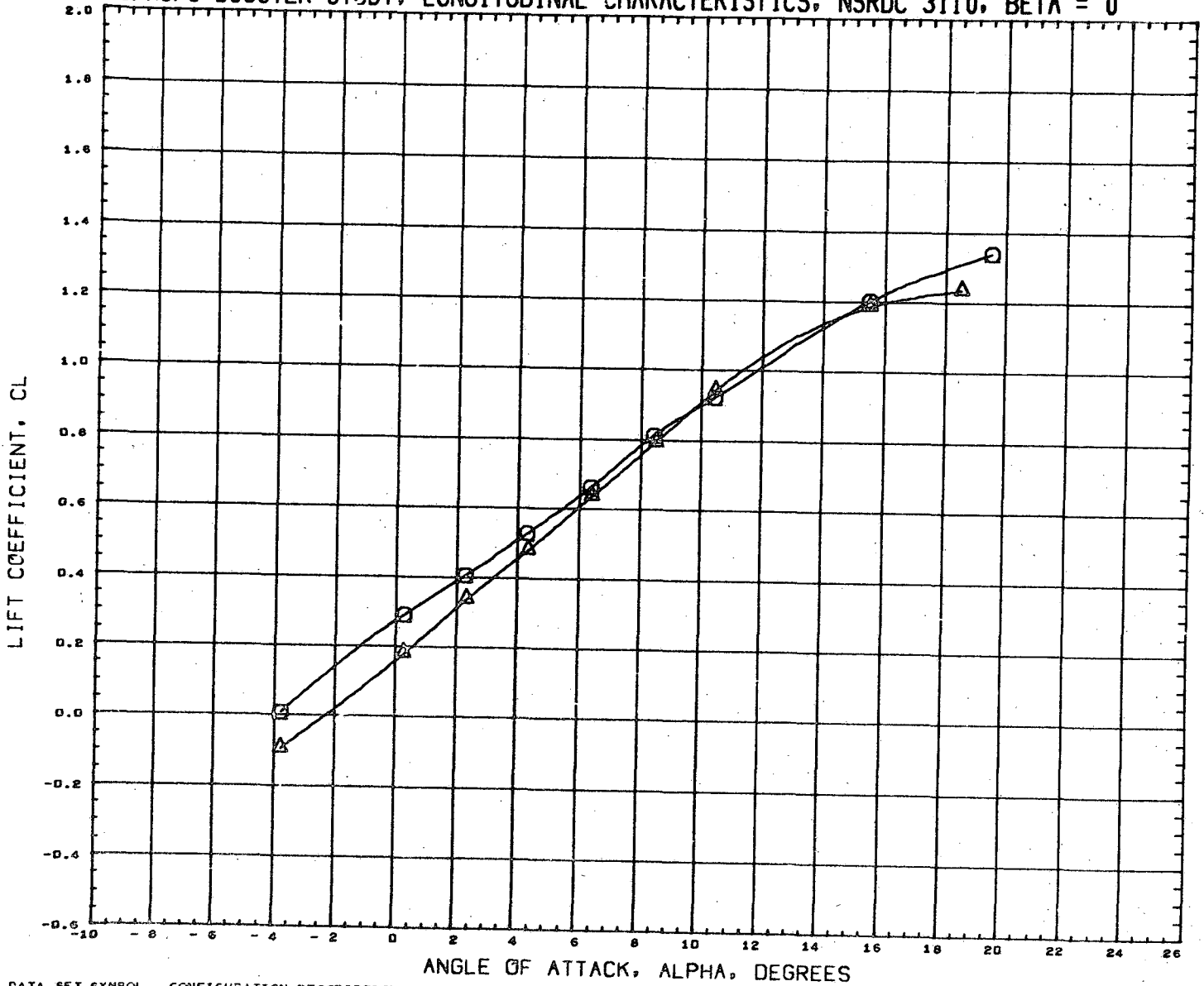
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.380

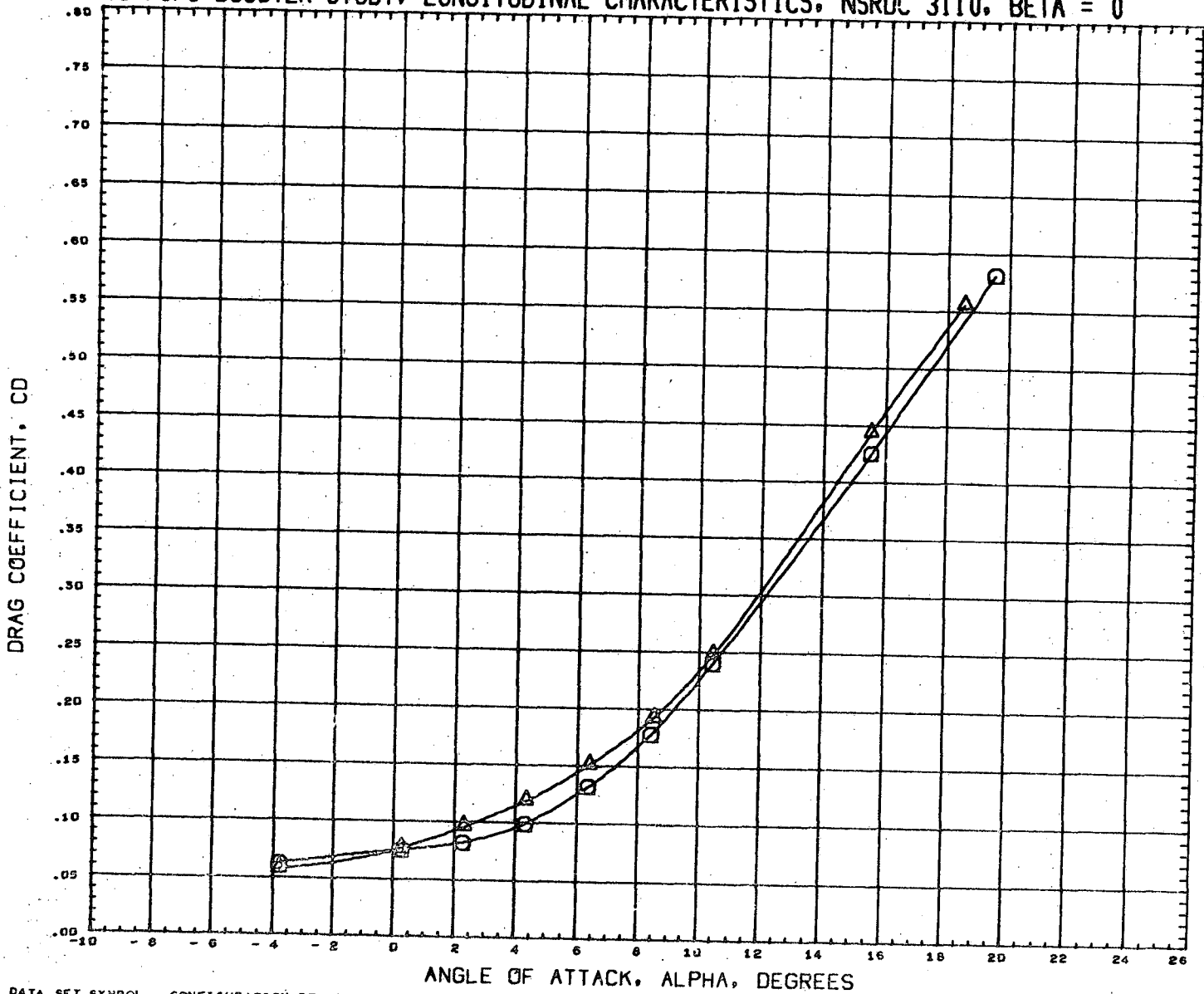
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2229) ○	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2245) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

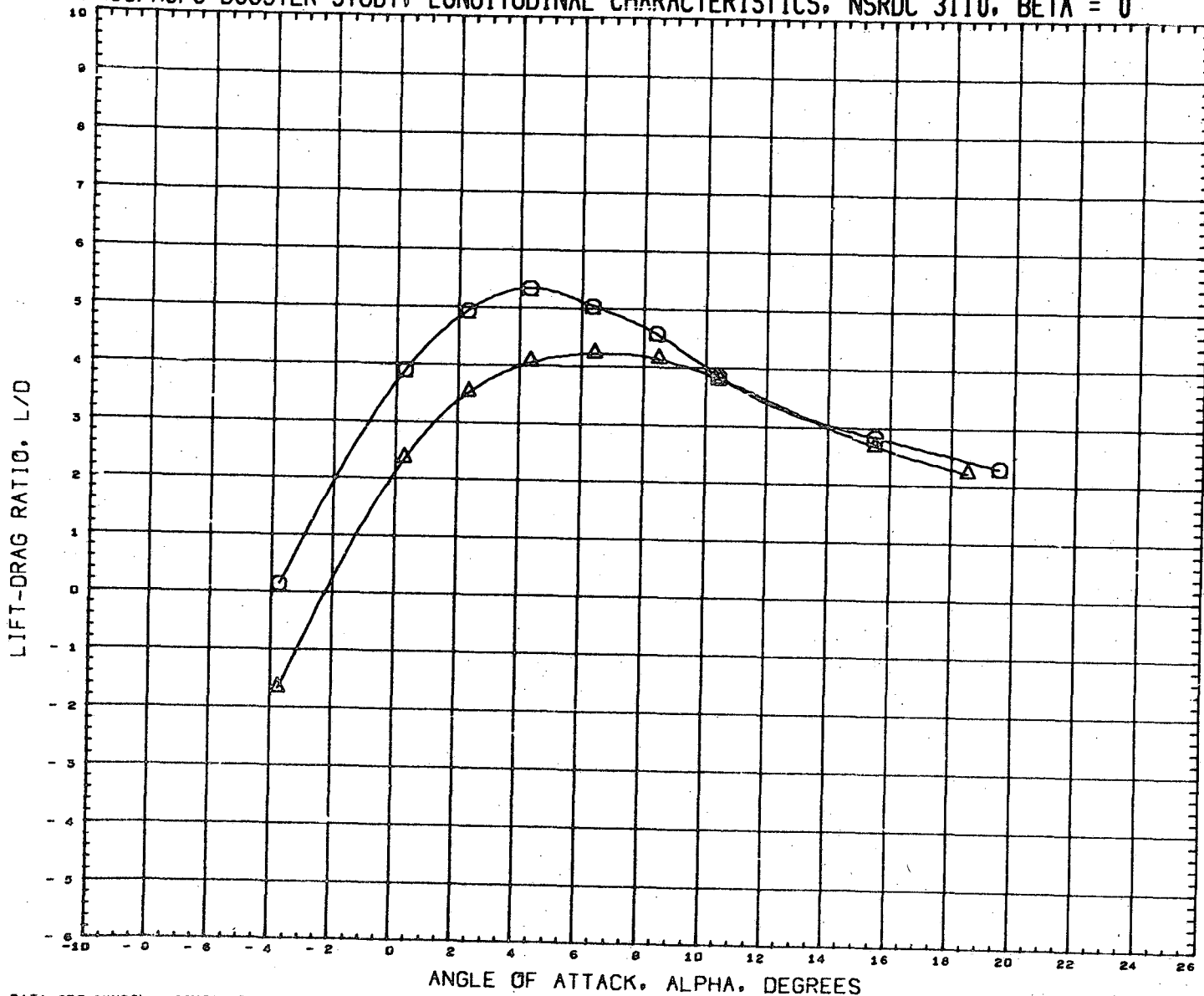
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2229)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2245)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.360

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

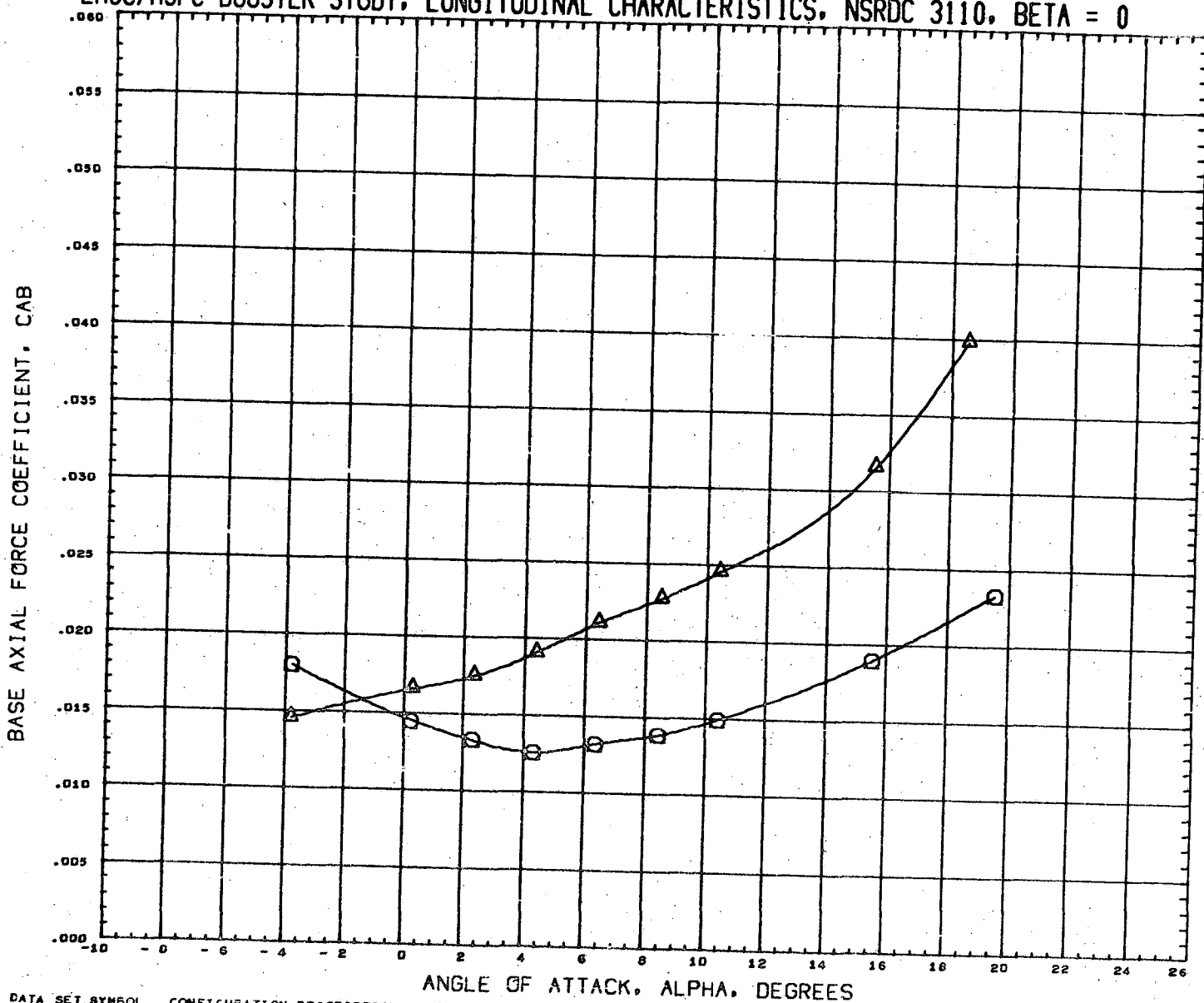


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2229)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2245)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.380

12 (4)

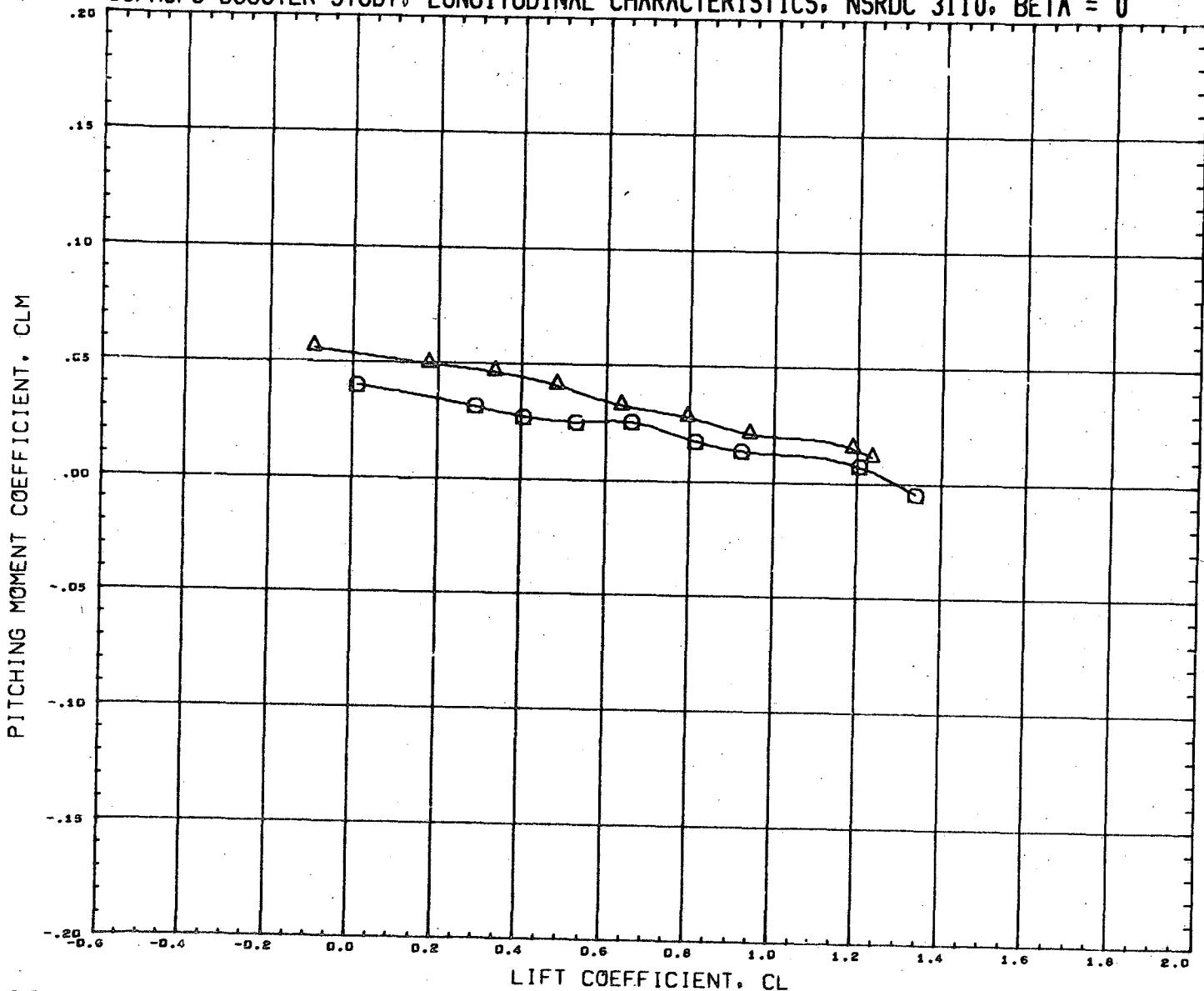
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2229) ○	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	SREF	1.3550 SQ. FT.
(RN2245) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

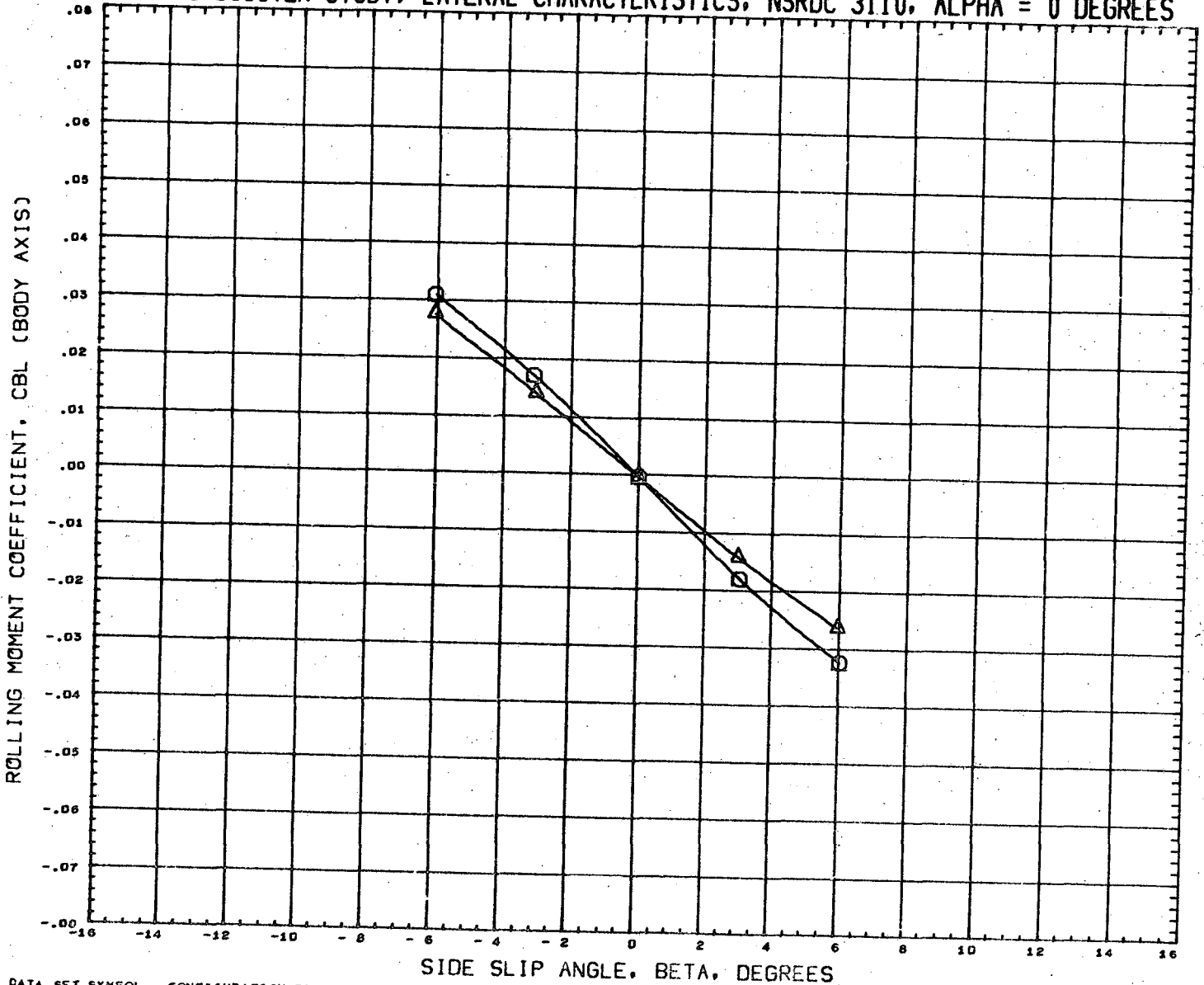
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2229)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2245)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.360

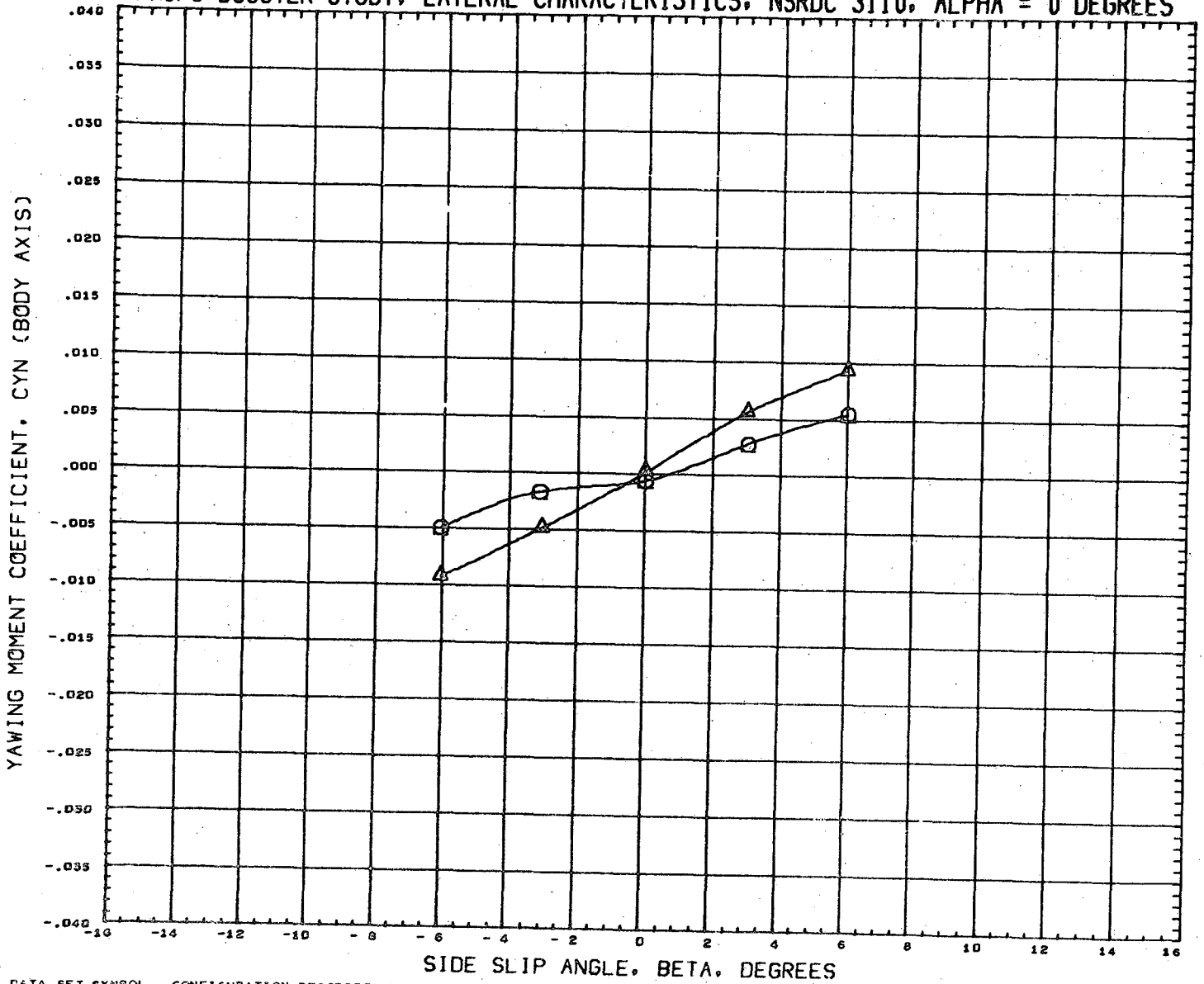
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2230)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2246)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.301

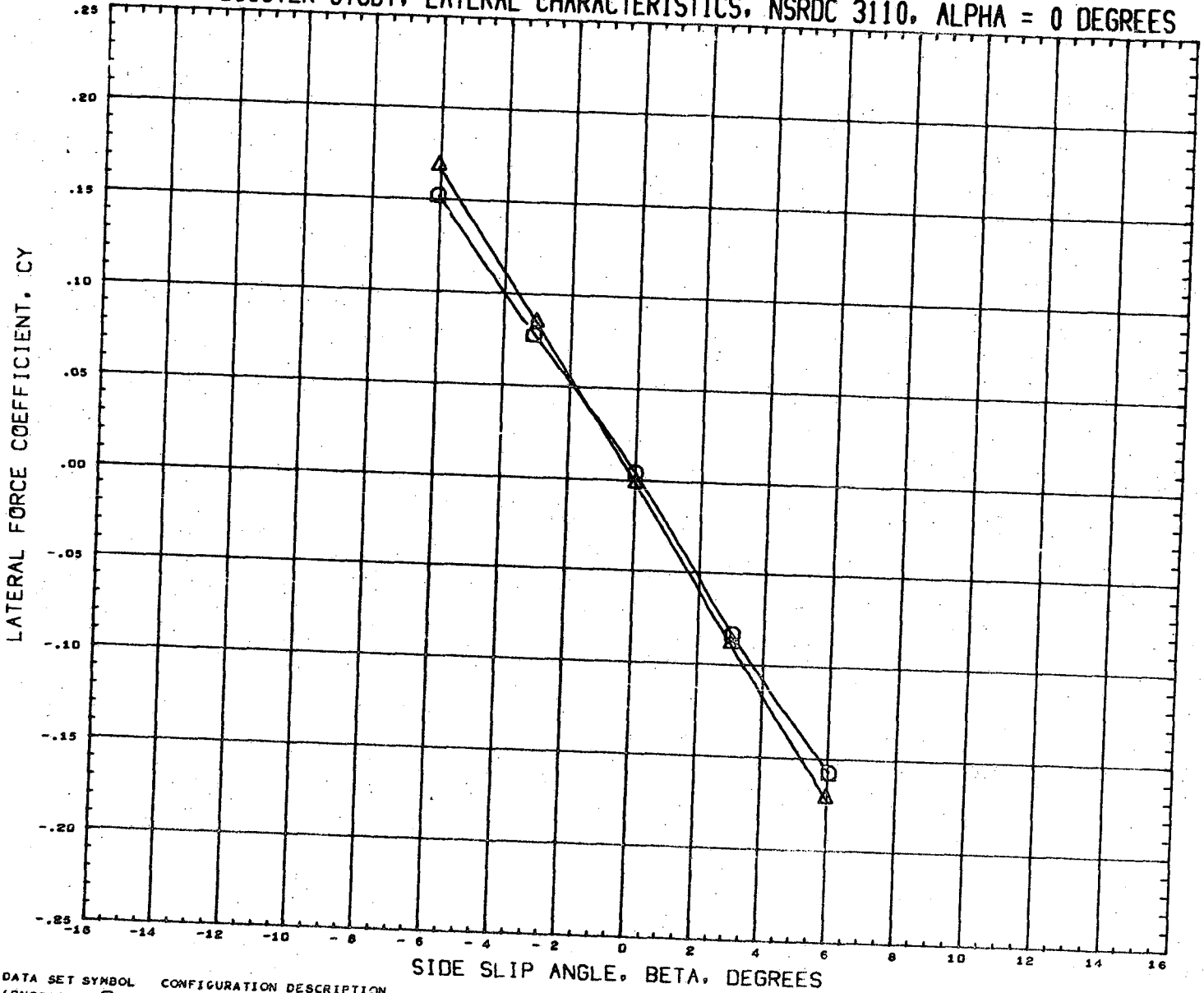
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2230) 	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2246) 	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN223D)
(RN2246)



CONFIGURATION DESCRIPTION

NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

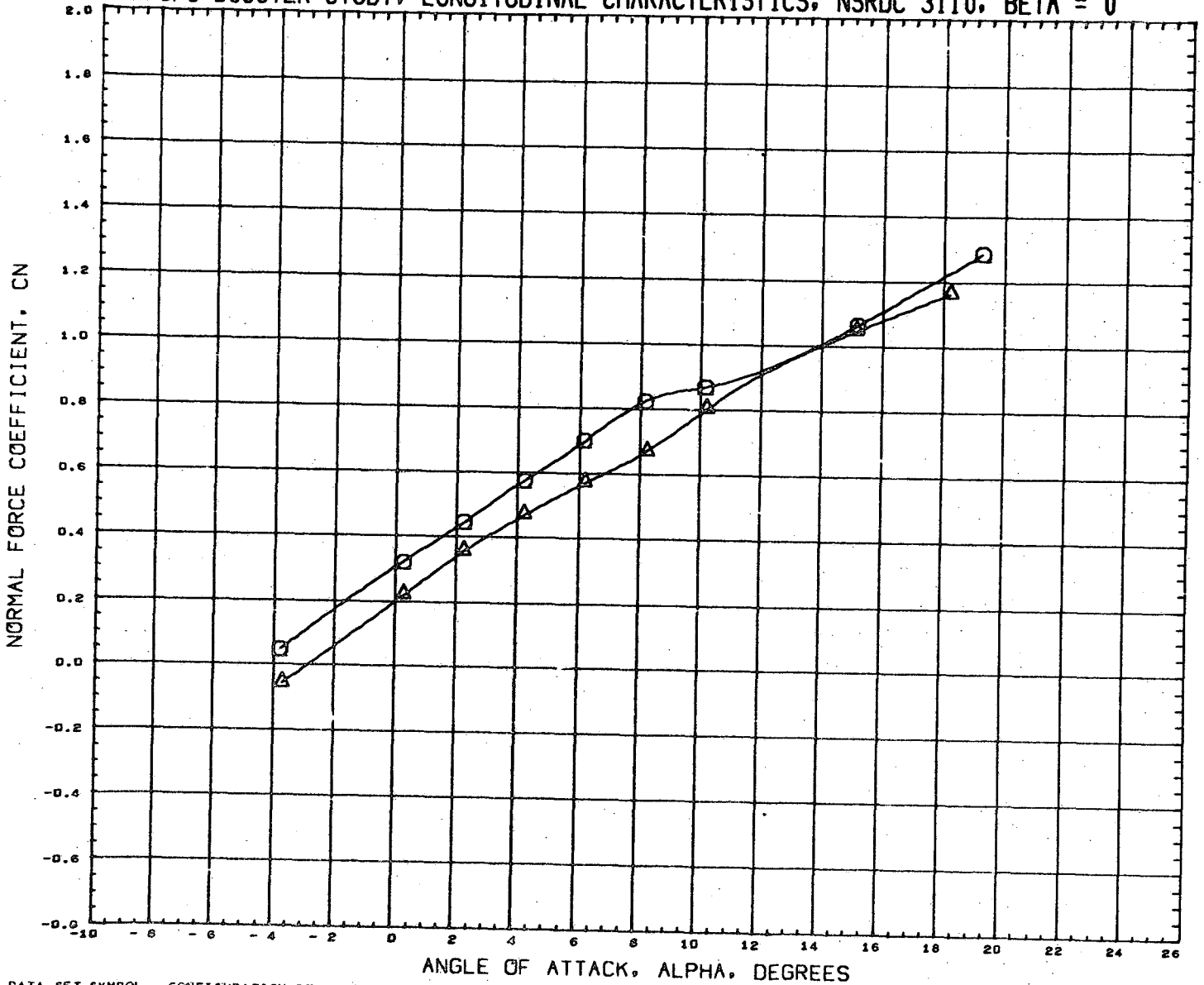
INCIDC	CNDPOS	INCIDW	WNGFOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

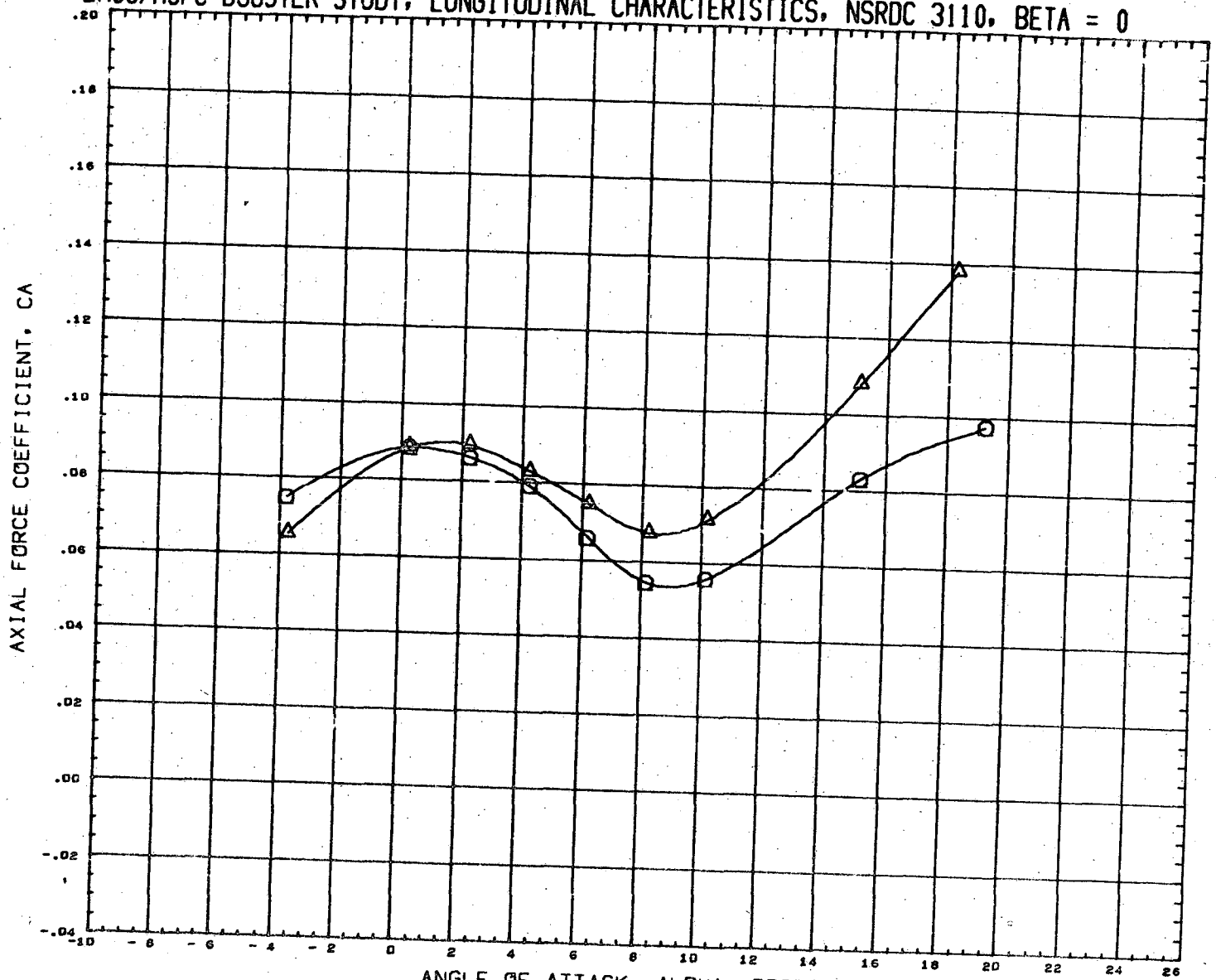
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2237)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2253)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.281

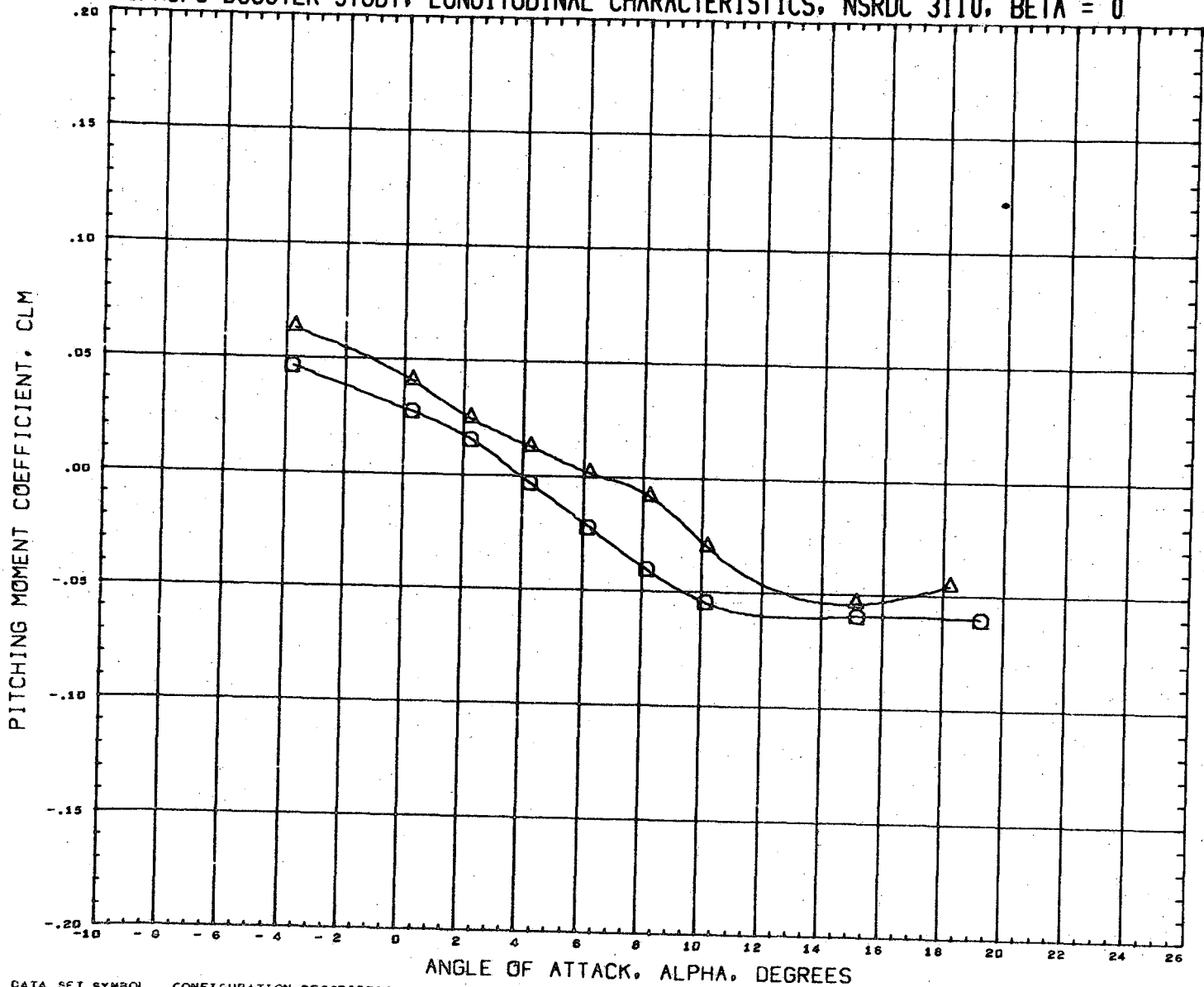
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2237)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2253)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2237) Q
(RN2233) A

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

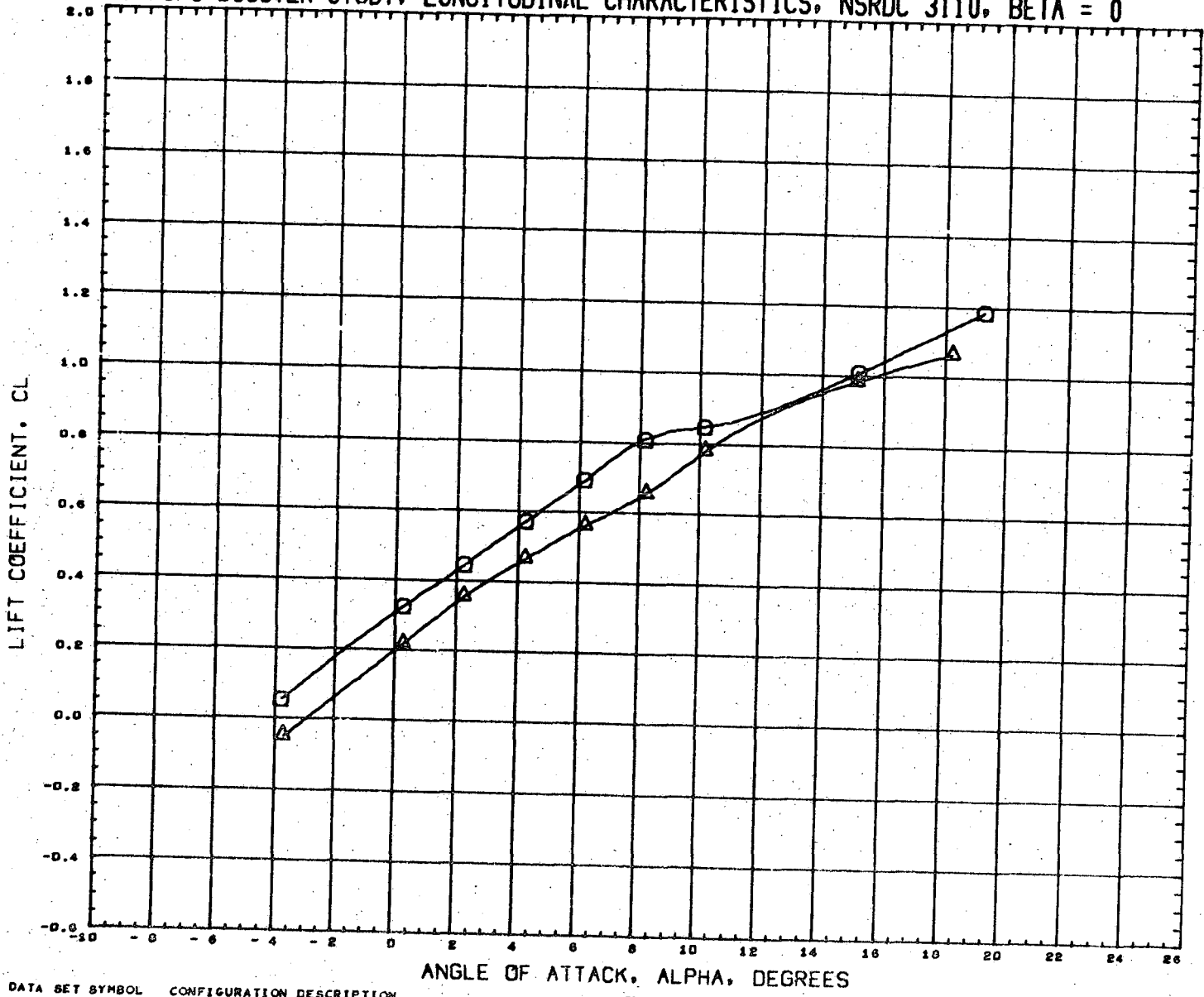
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

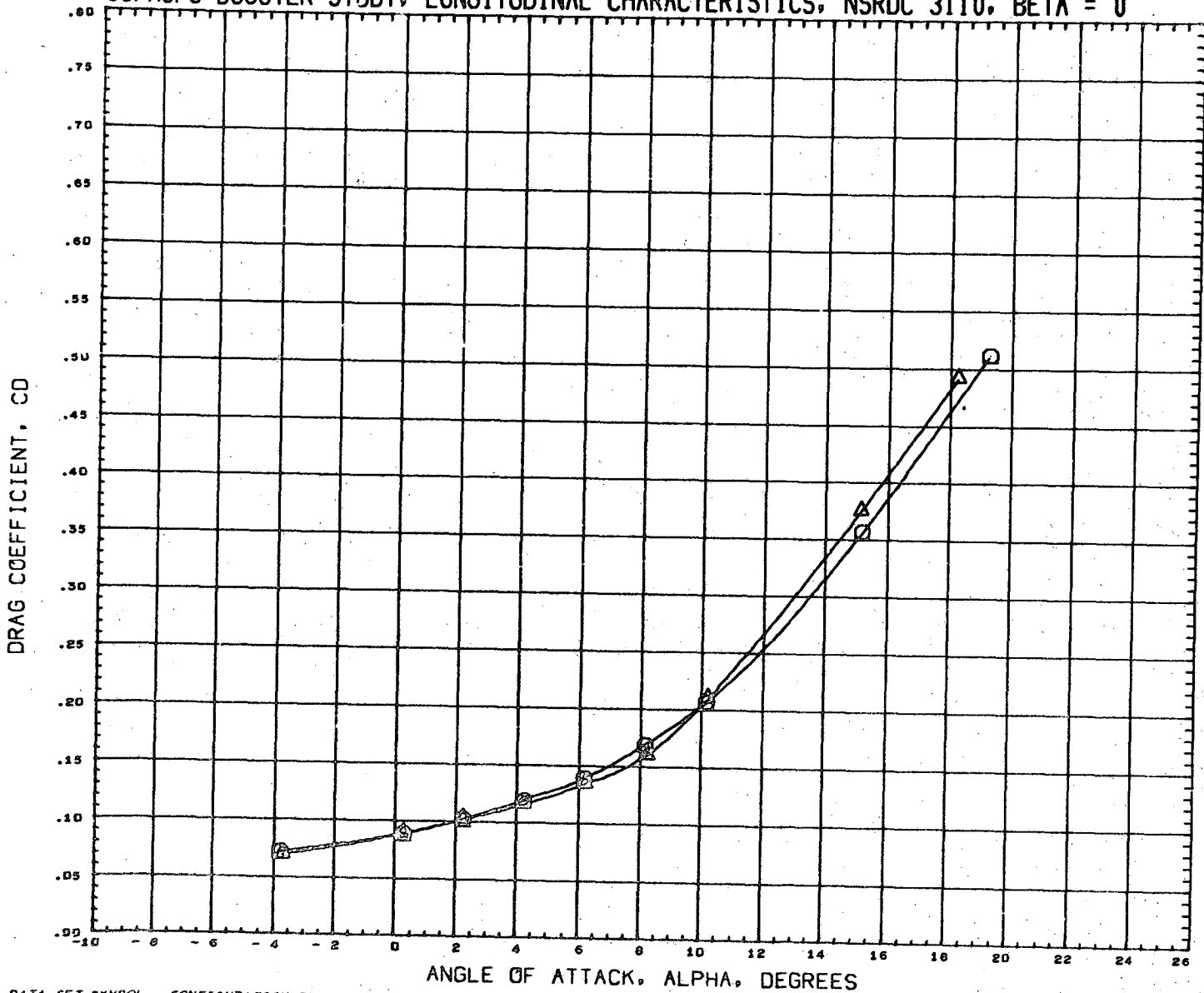
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2237)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2253)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2237)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2253)	NSRDC-3110,HSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

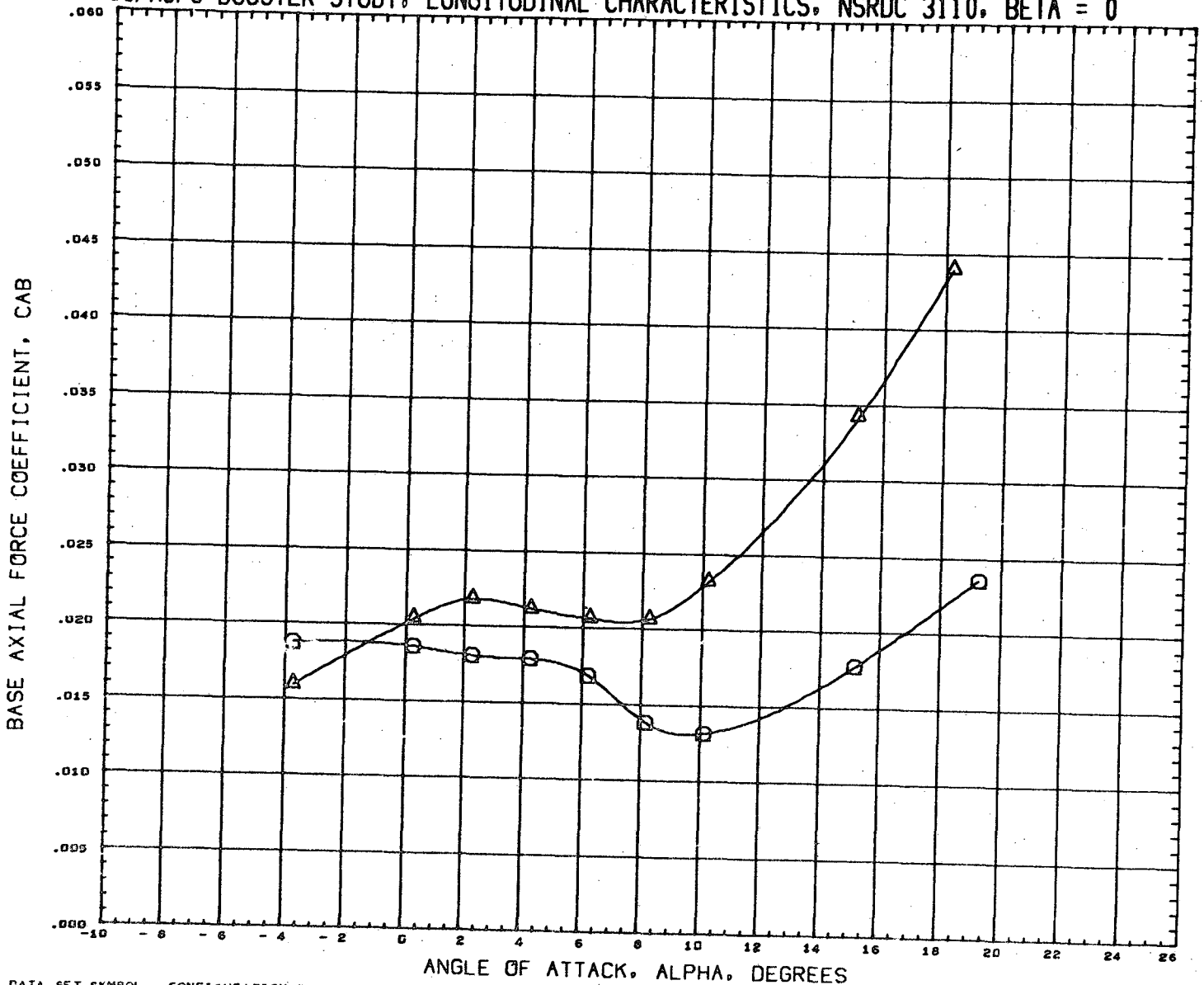
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2237)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2,000	3,000	1,000	SREF 1.3550 SQ.FT.
(RN2255)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2,000	3,000	2,000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 32.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2237) 
(RN2259) 

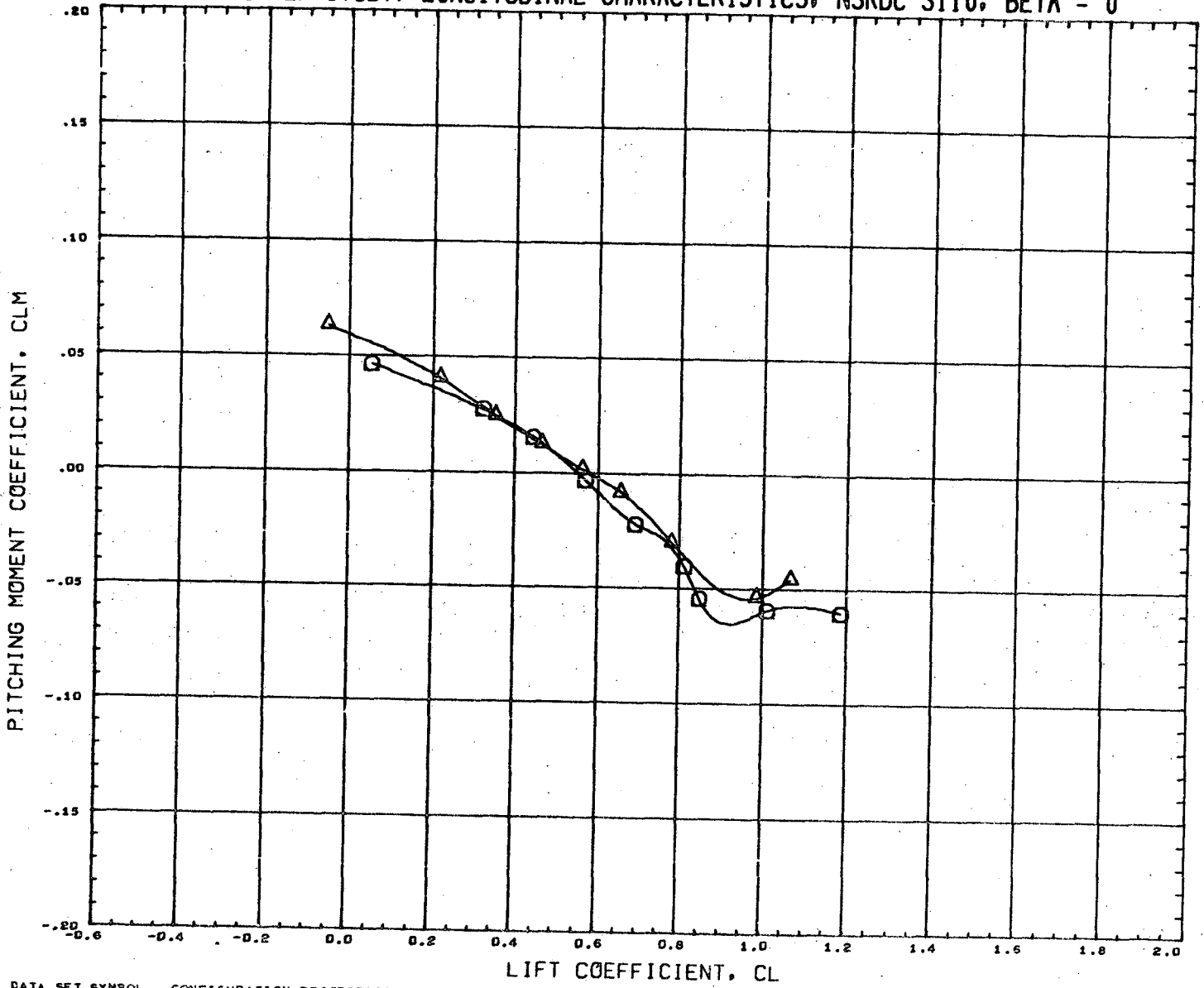
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W1V2D1



INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

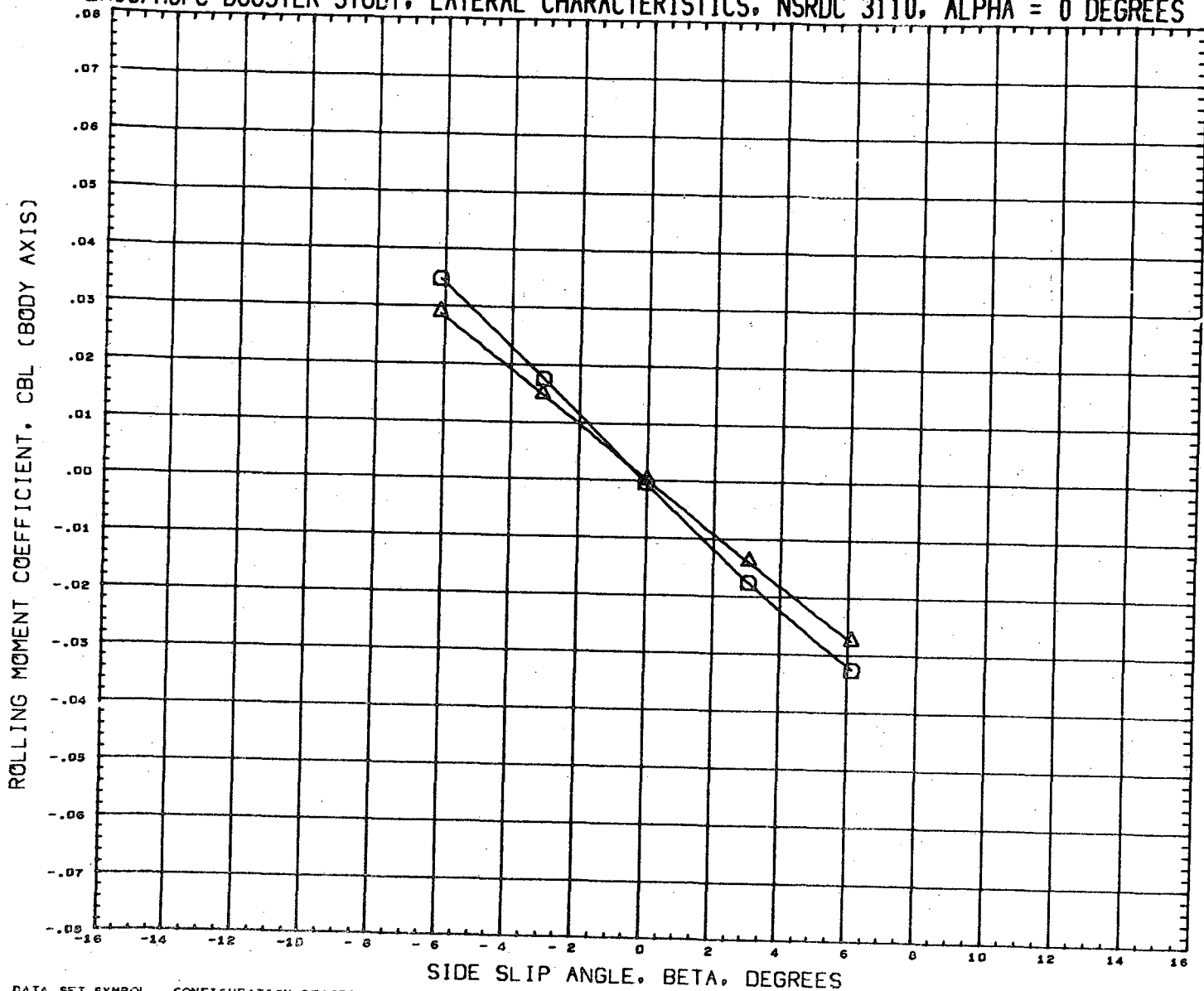
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNSPOS	REFERENCE INFORMATION
(RN2237) 	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2253) 	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2238) 
(RN2254) 

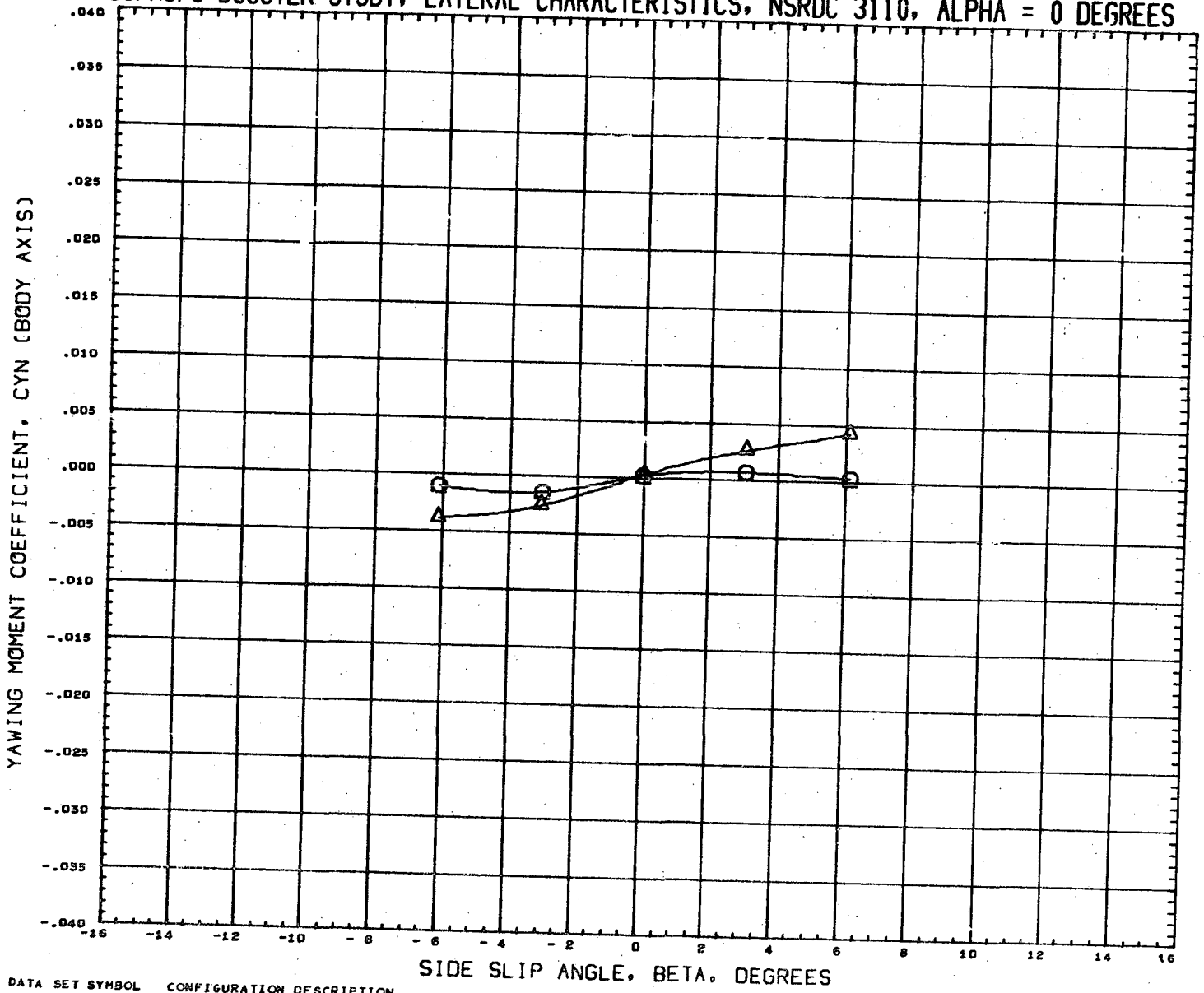
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2238)	NSRDC-3110,MSFC/LHSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2254)	NSRDC-3110,MSFC/LHSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

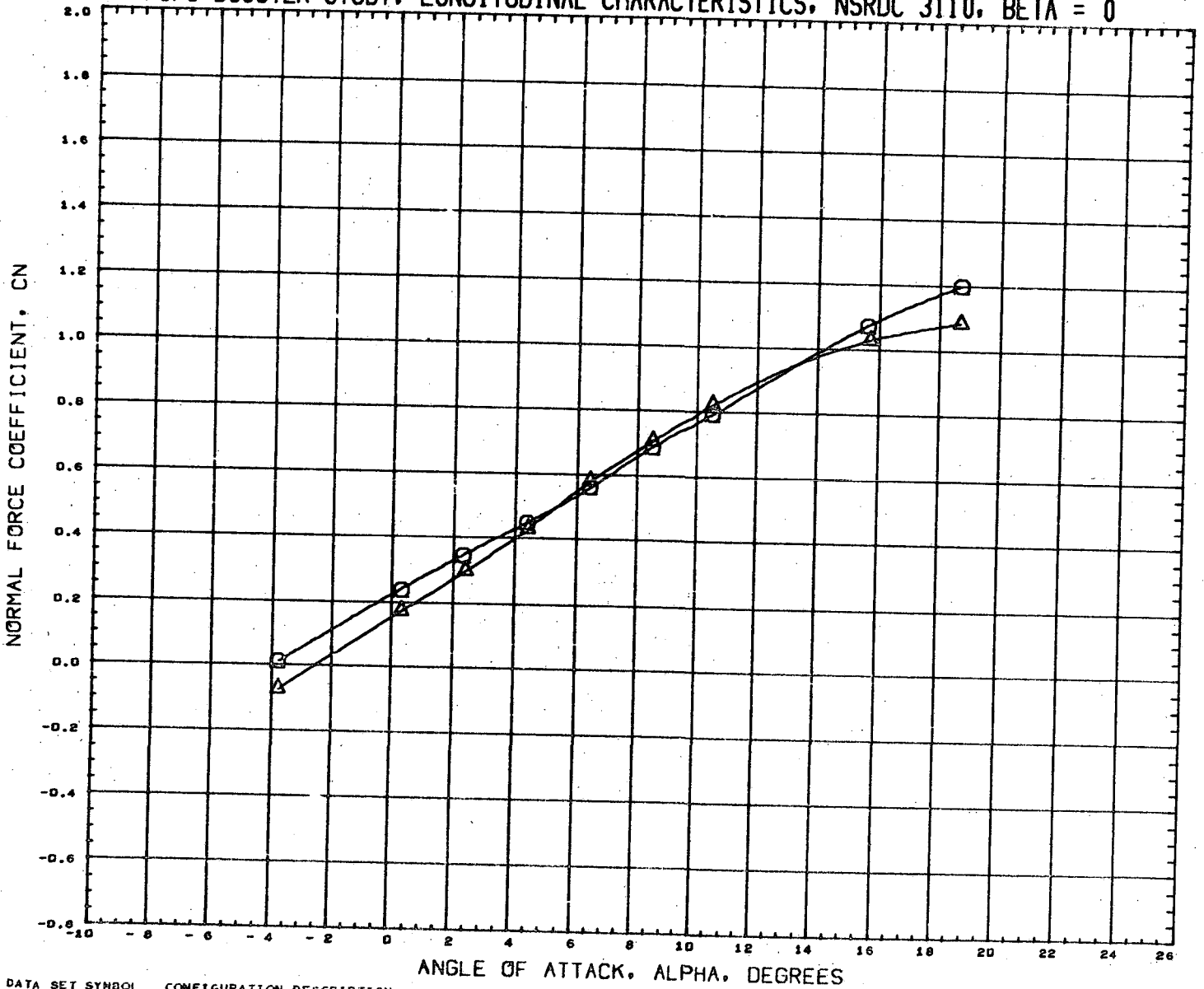
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2236)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 50.FT.
(RN2254)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2289) ○
 (RN2305) △

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

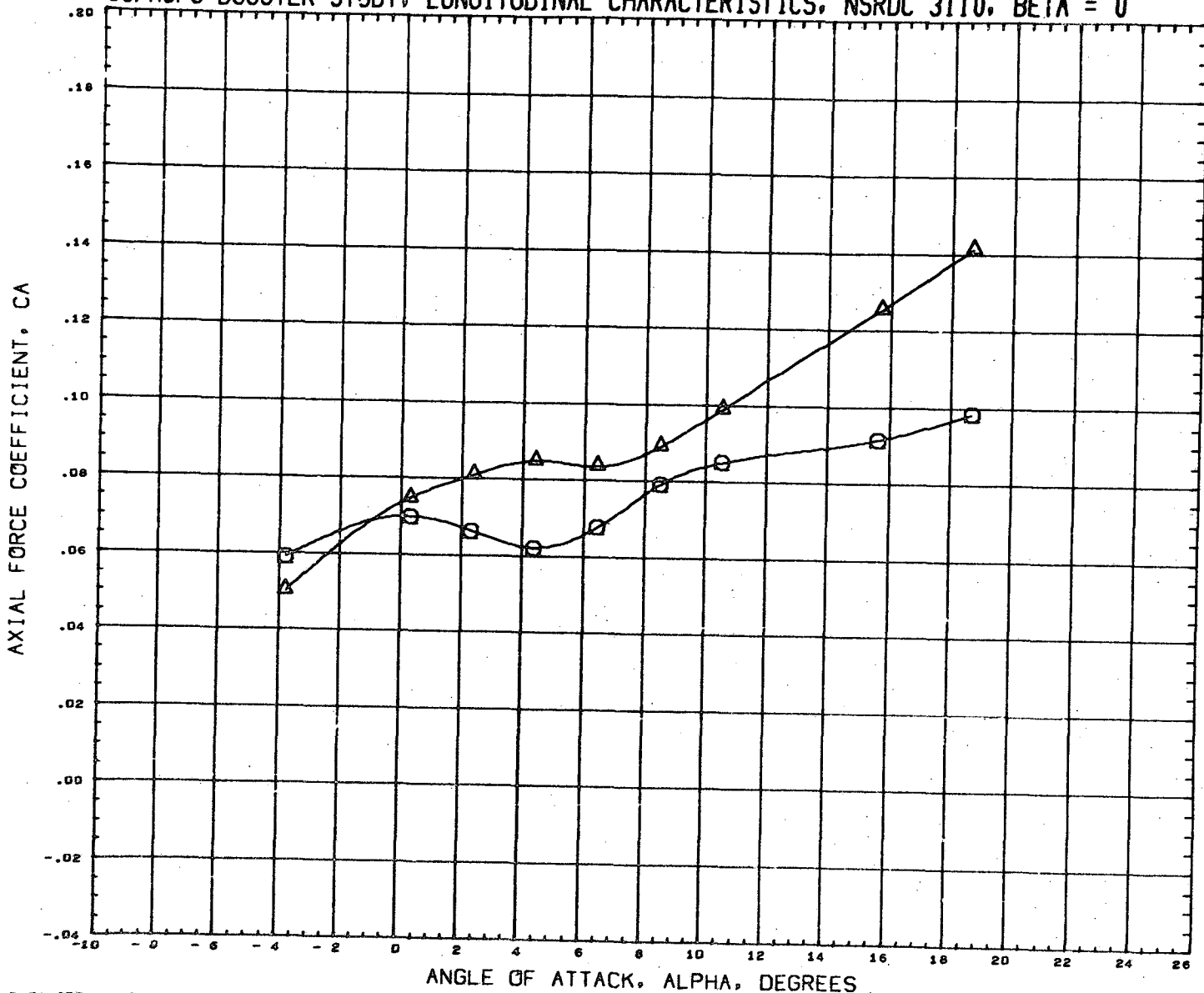
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.362

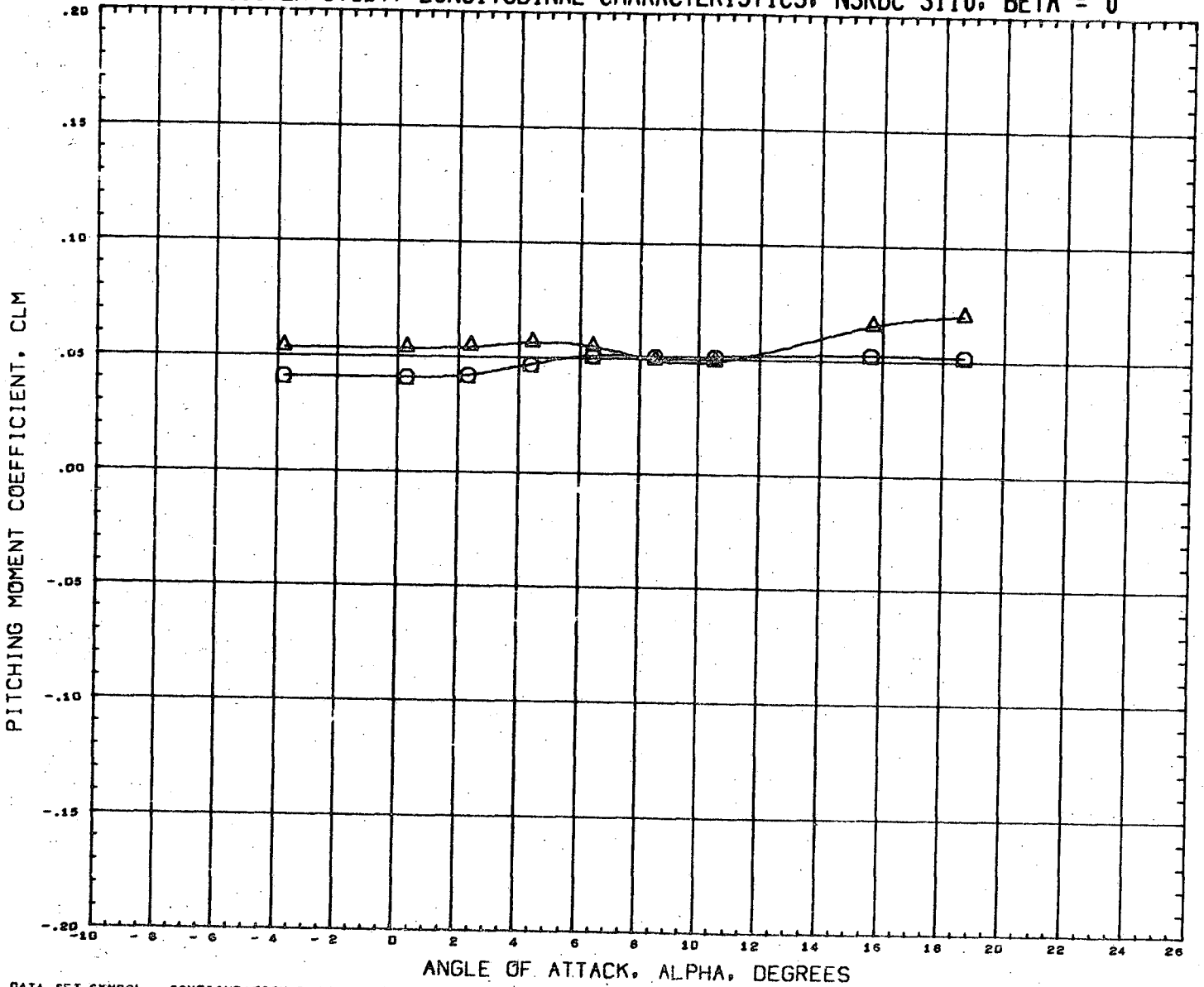
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2289)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2305)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.392

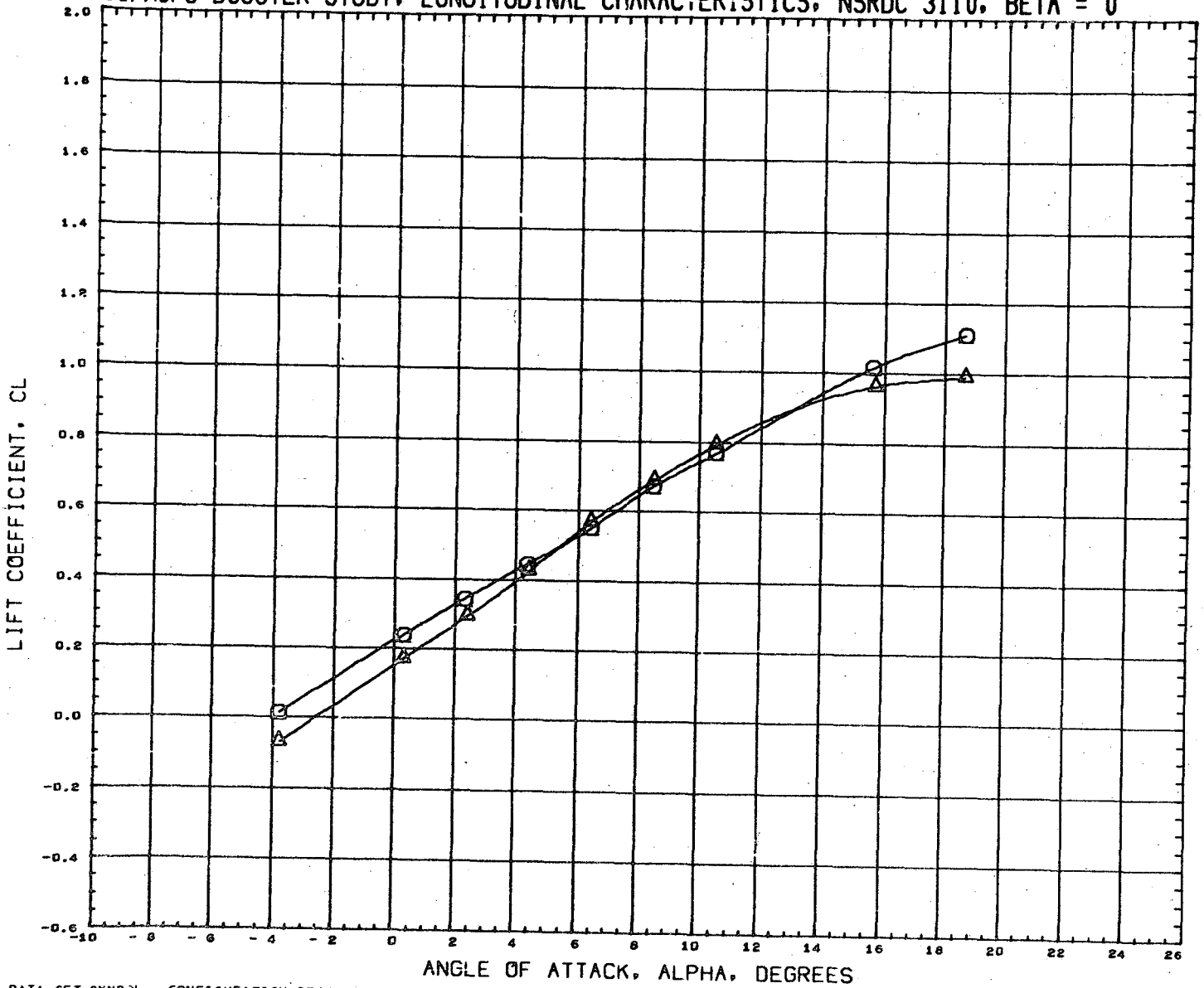
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2289)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2305)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.382

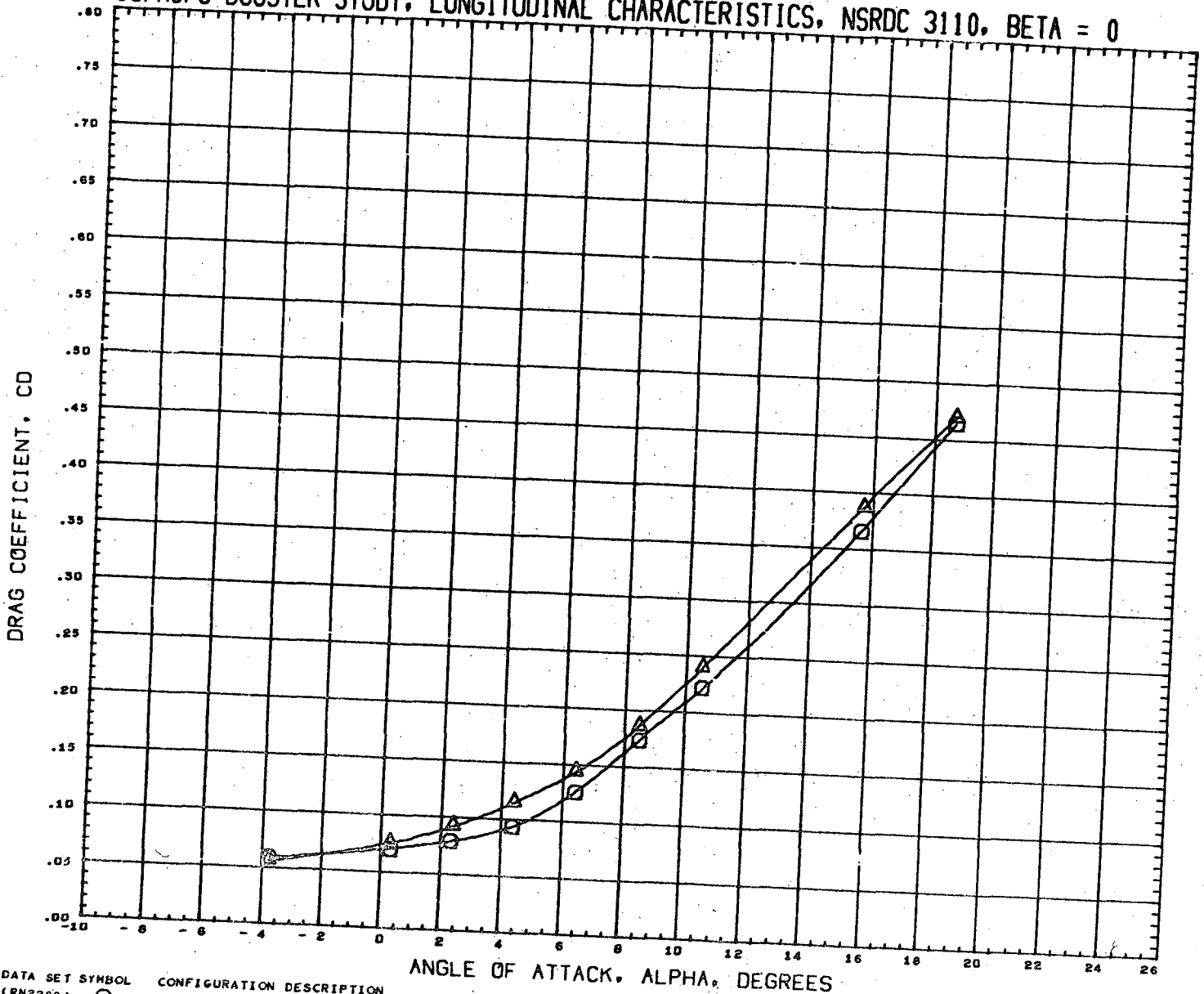
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2289)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2305)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2289)
(RN2305)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

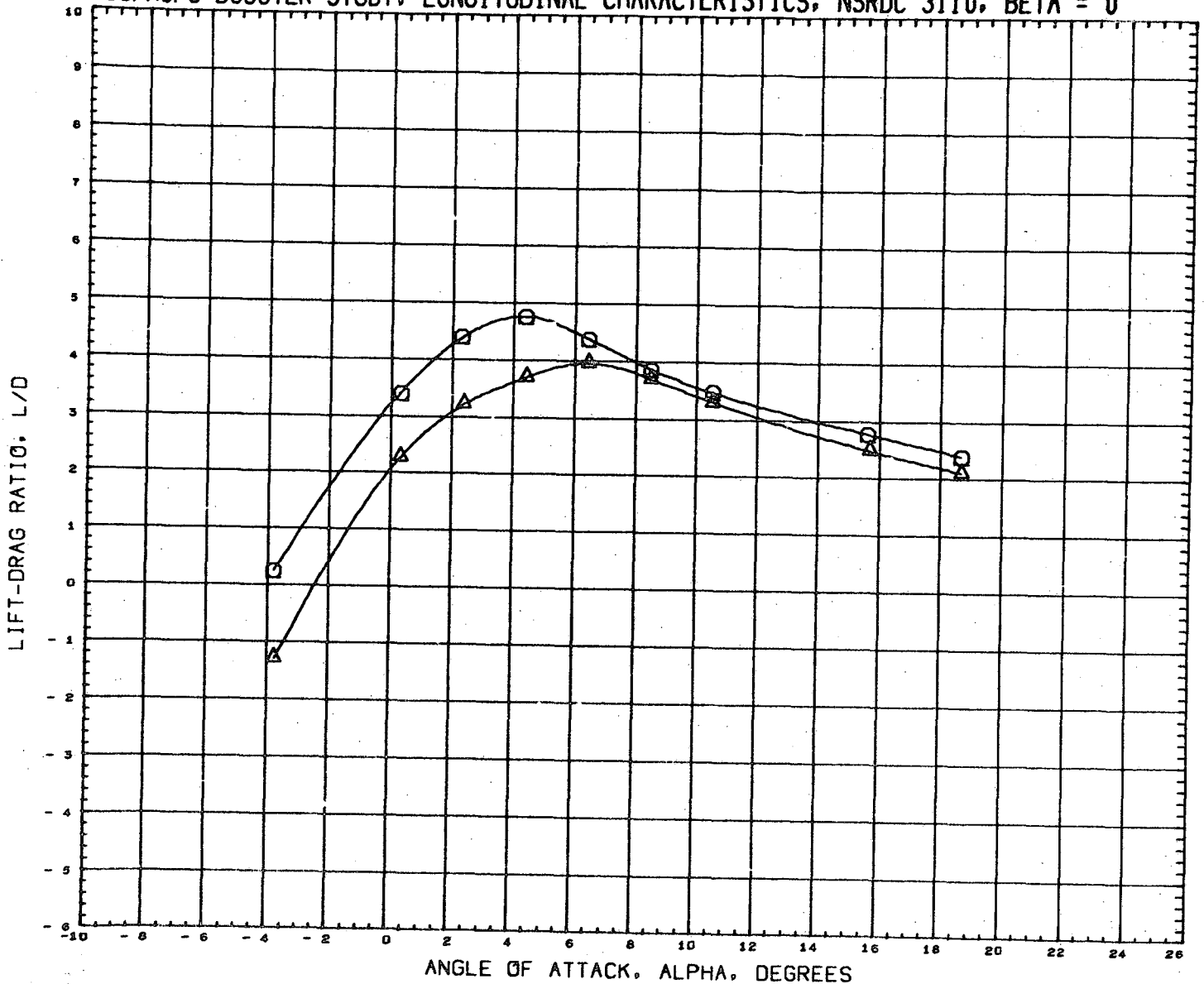
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



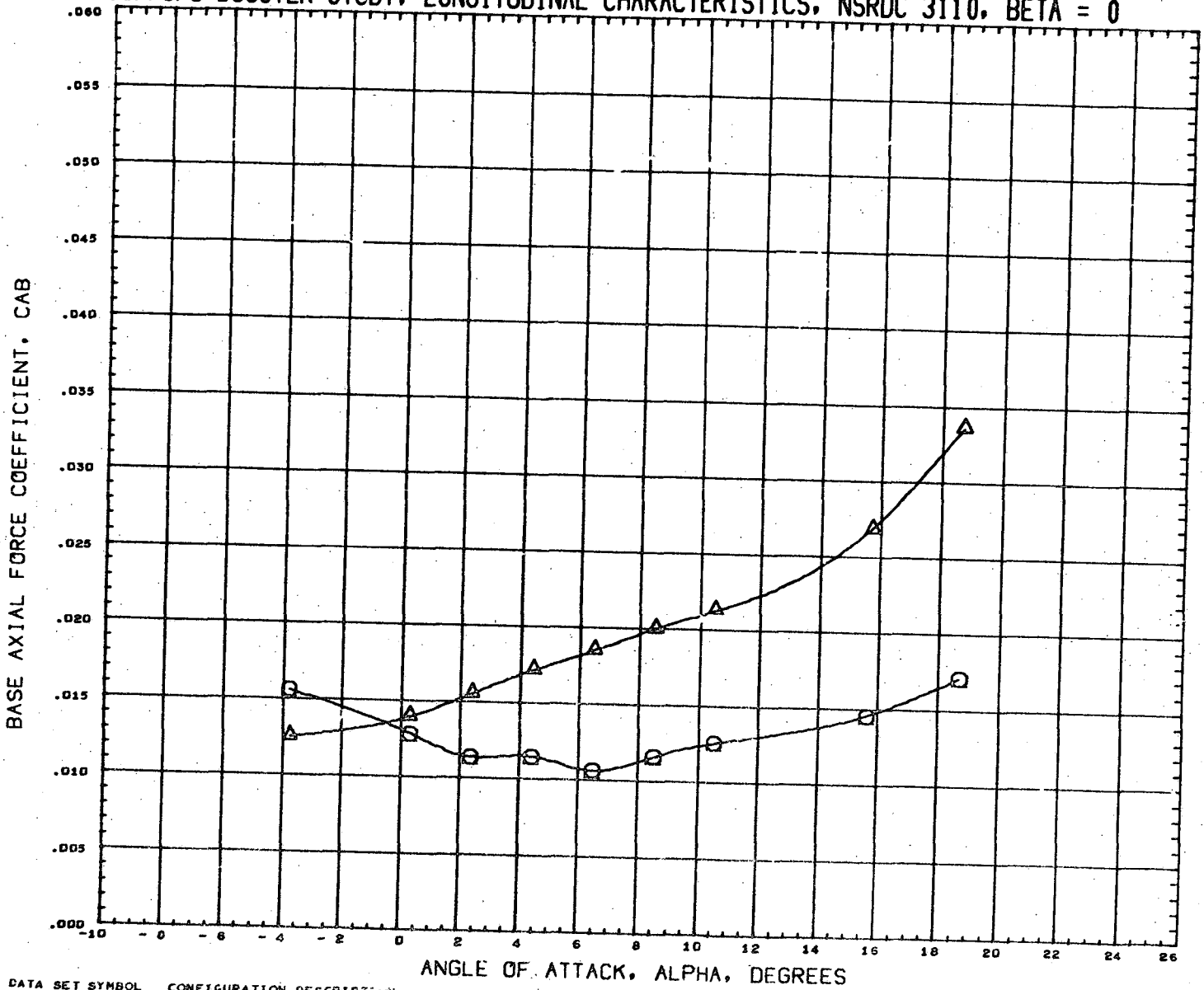
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2289)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2303)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.382

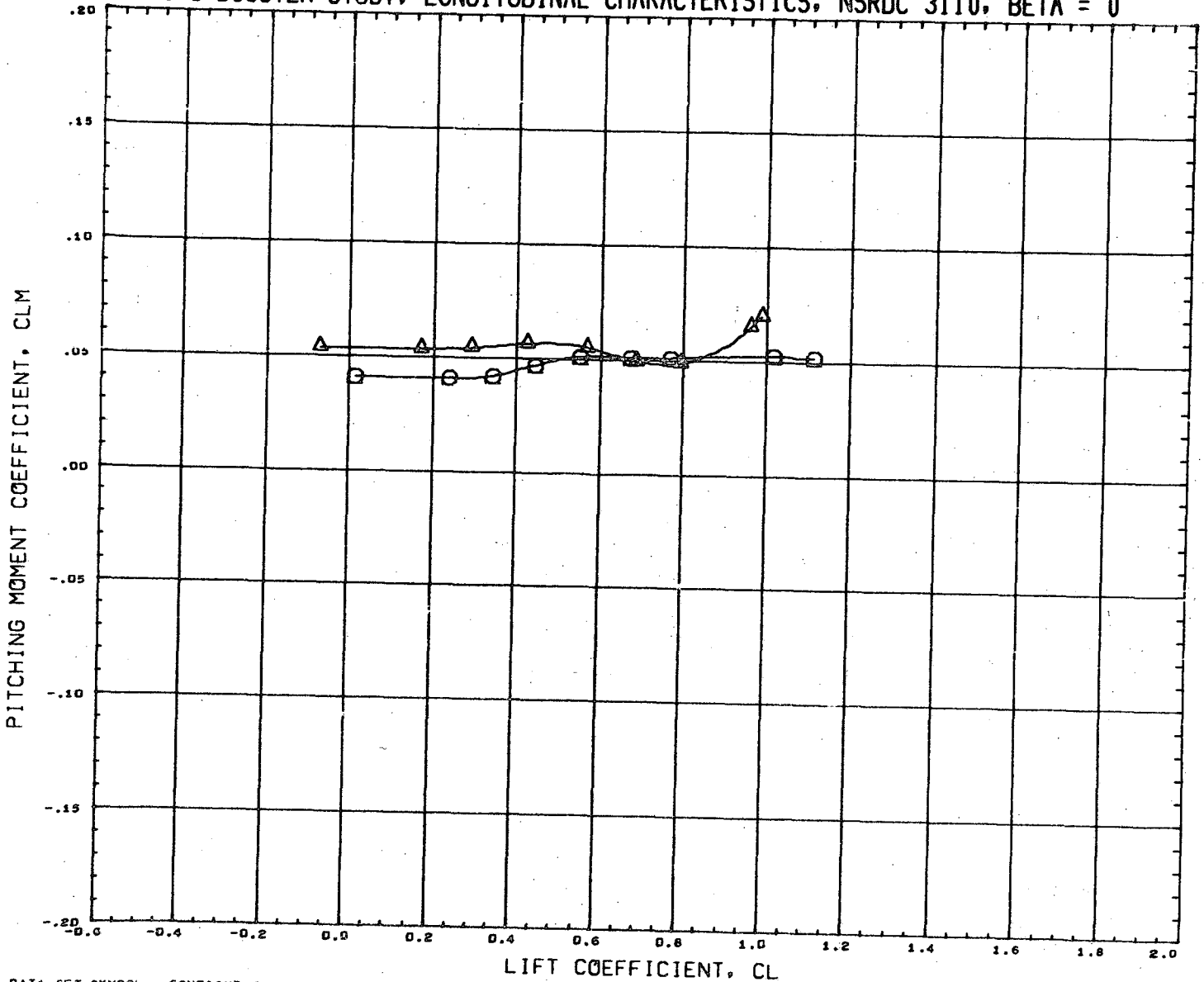
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2289)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2305)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.392

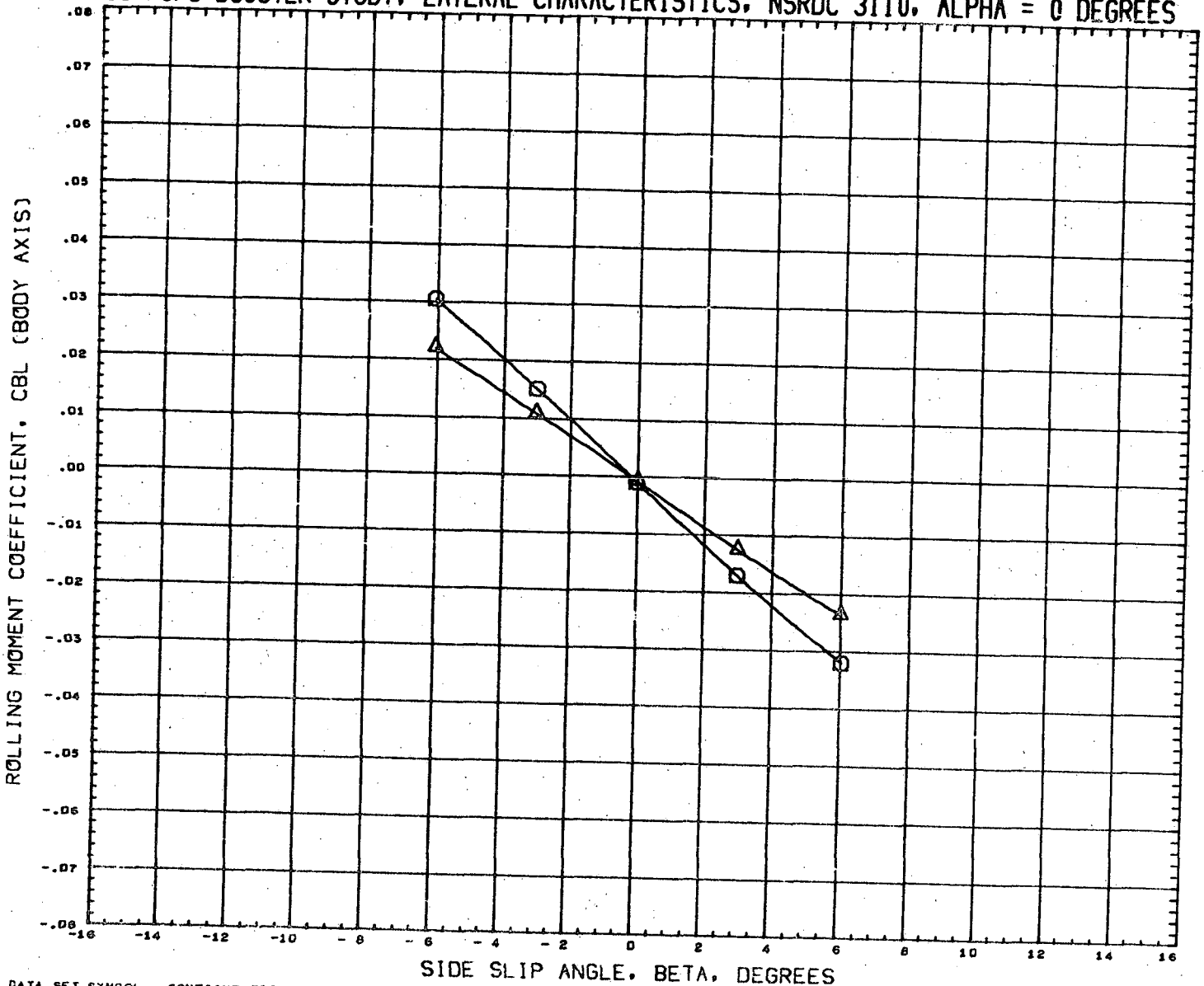
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2289)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2305)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2290)
(RN2306)



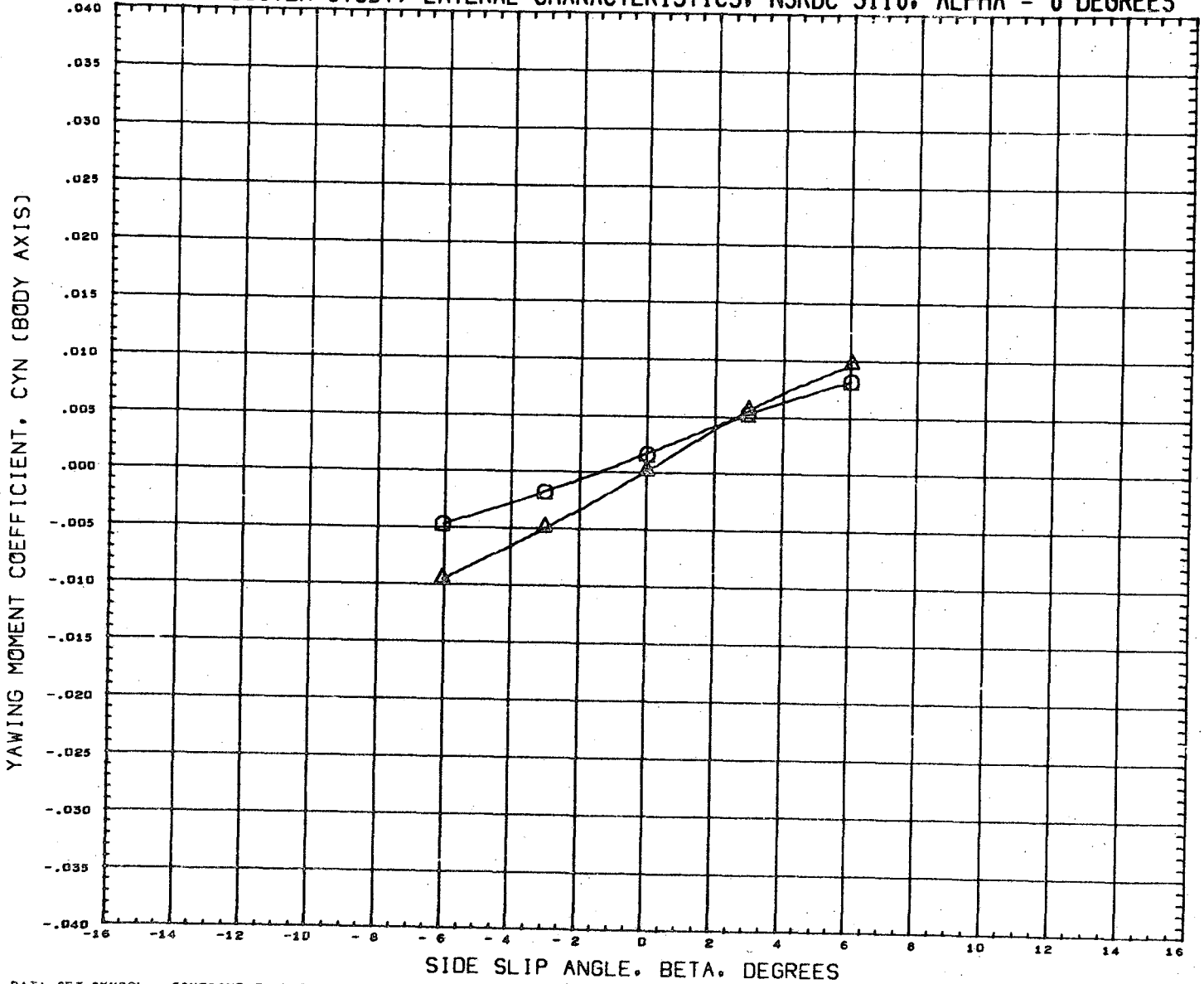
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC CNDPOS INCIDW WNGPOS
15.000 1.000 3.000 1.000
15.000 1.000 3.000 2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.380

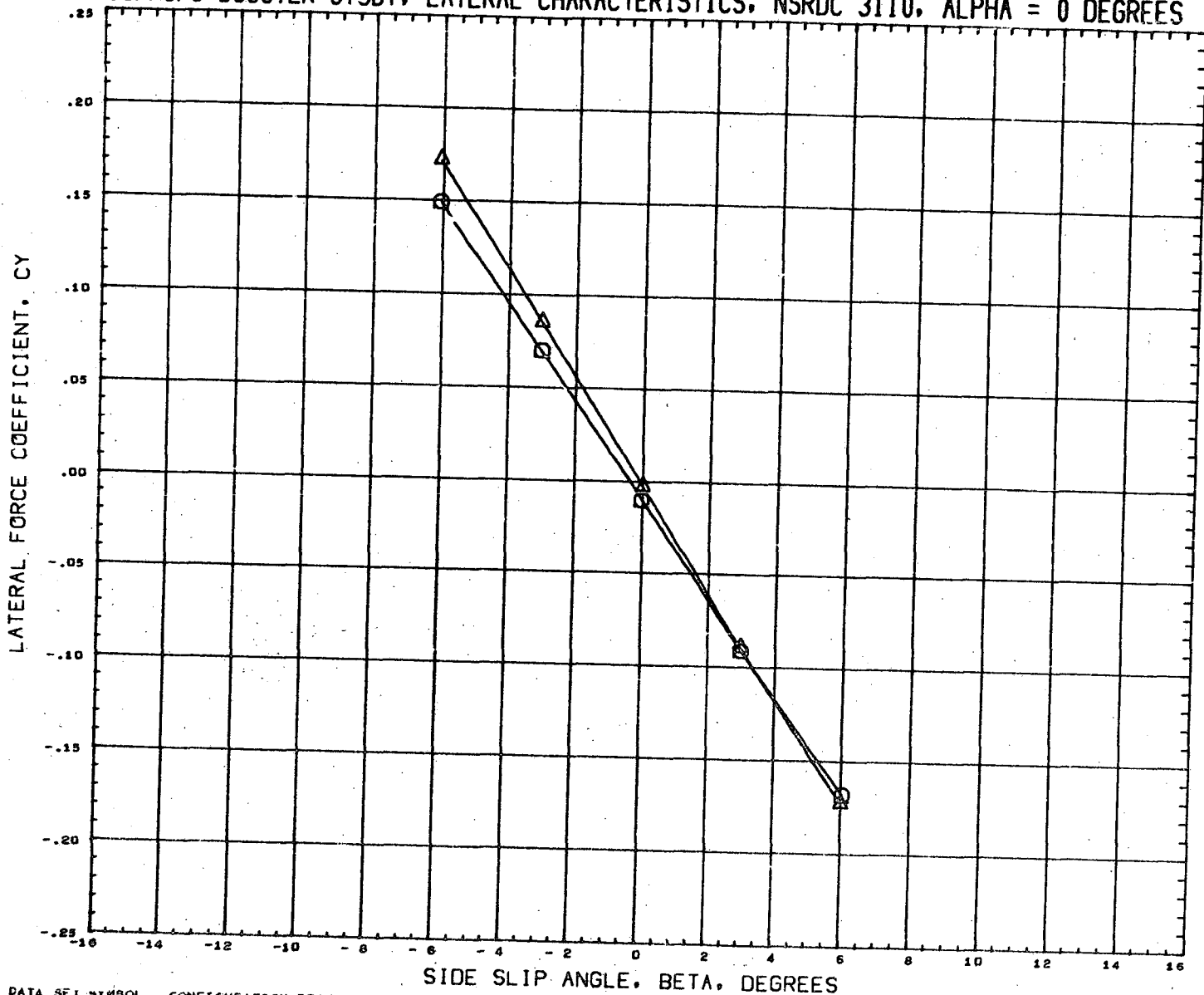
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2290)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2306)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

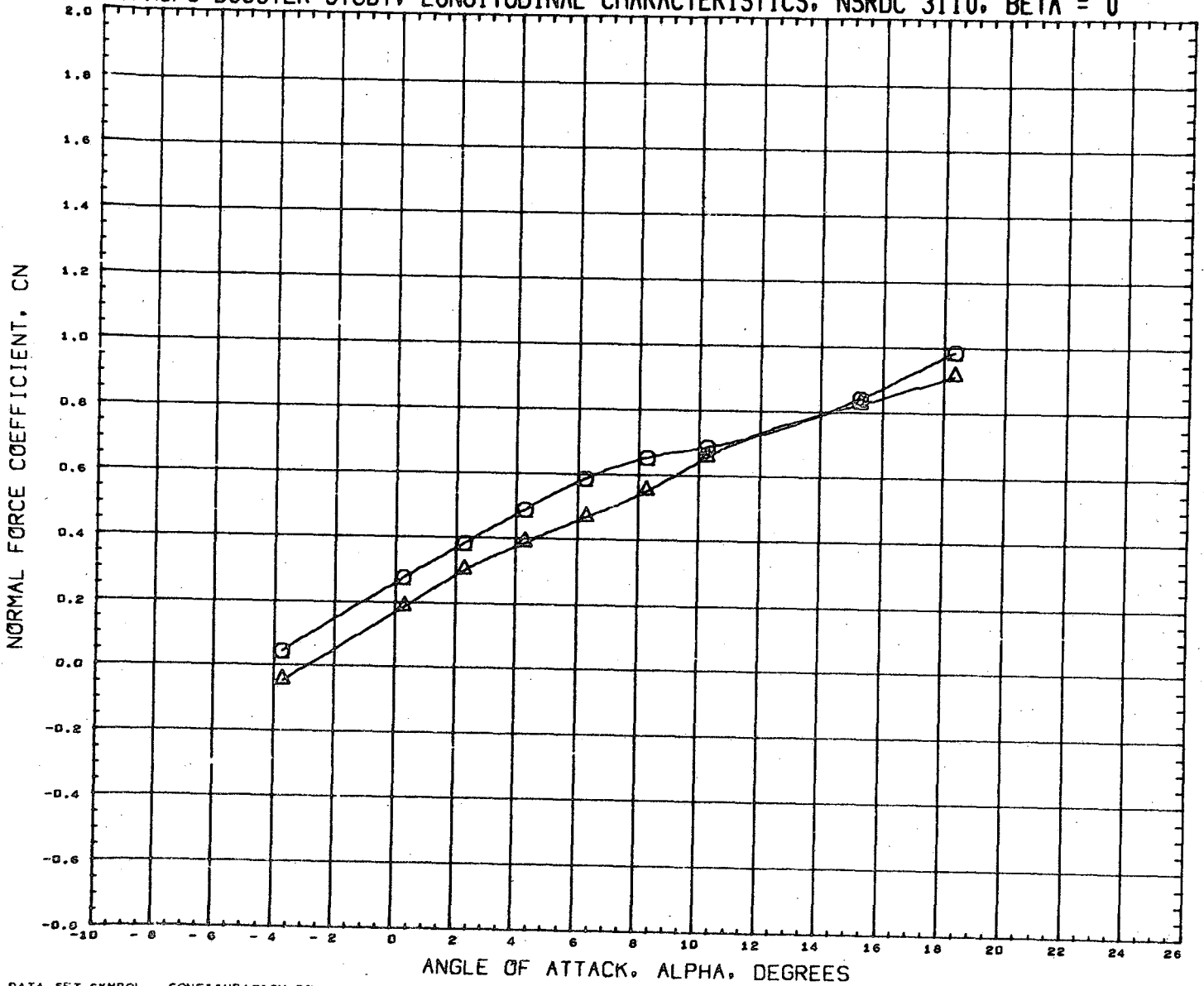
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCICW	WNGPOS	REFERENCE INFORMATION
(RN2290)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2306)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	1.000	3.000	2.000	LREF 41.2360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

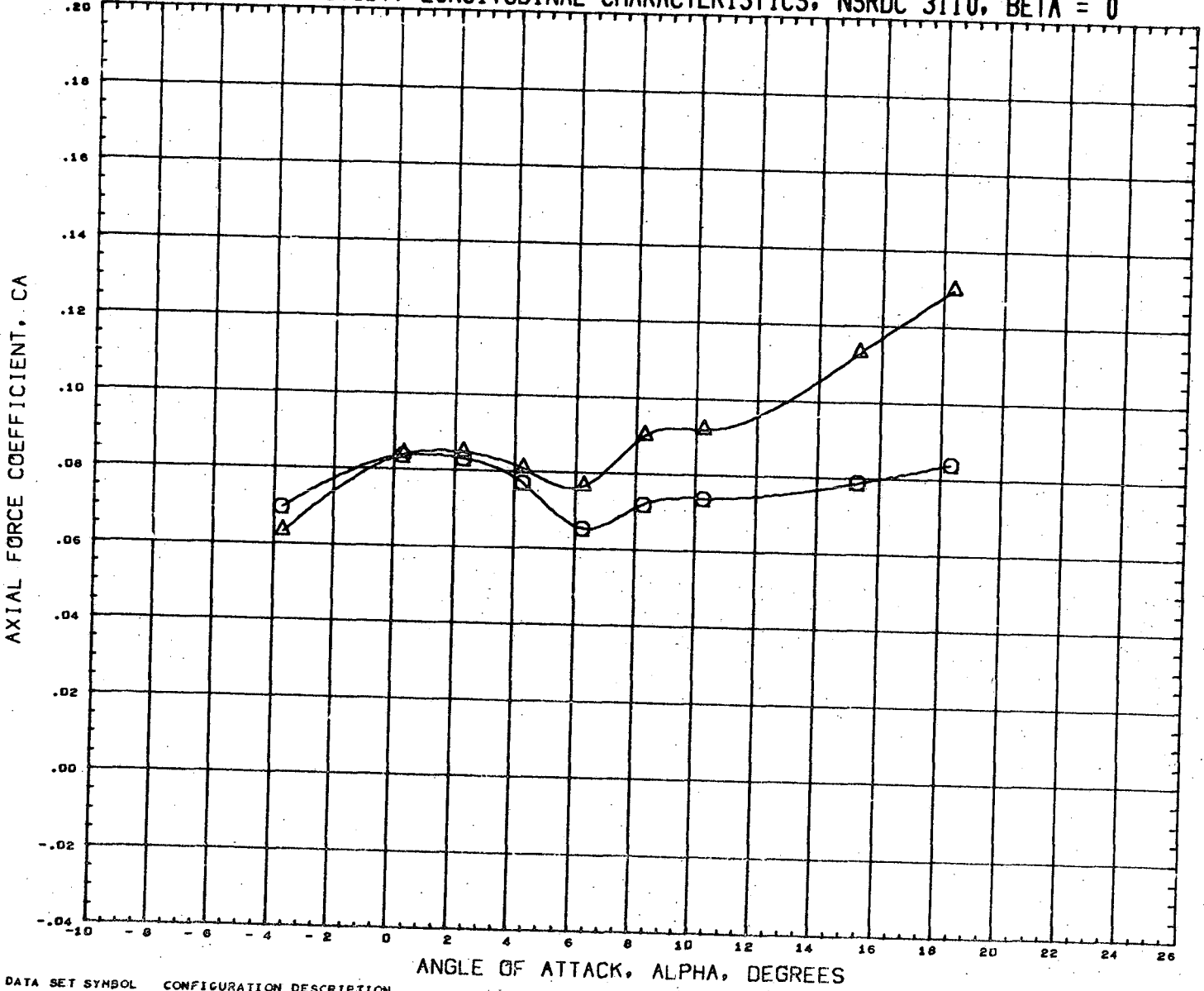
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2297)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2313)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

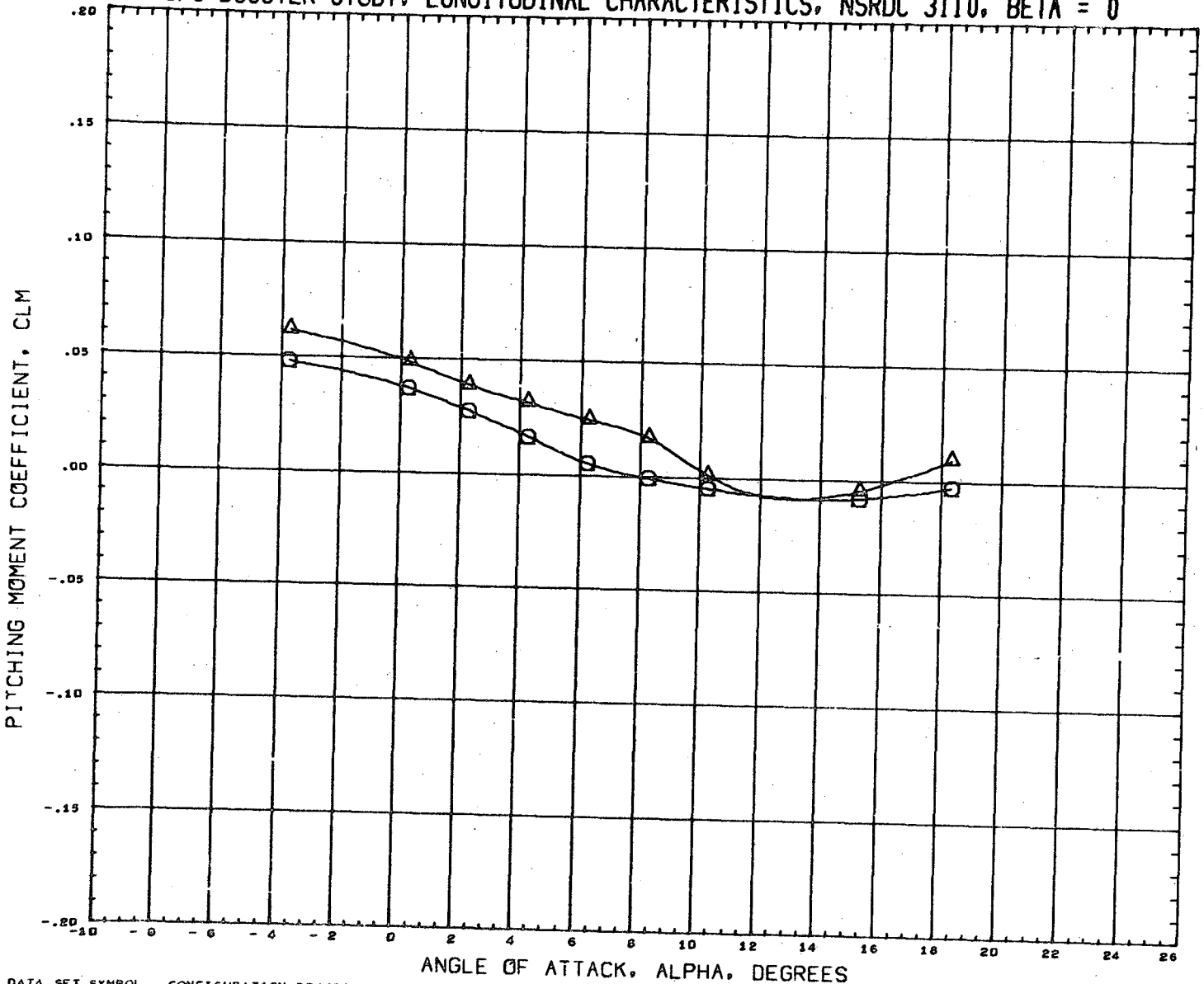
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS	REFERENCE INFORMATION
(RN2297)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2313)	NSRDC-3110, NSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

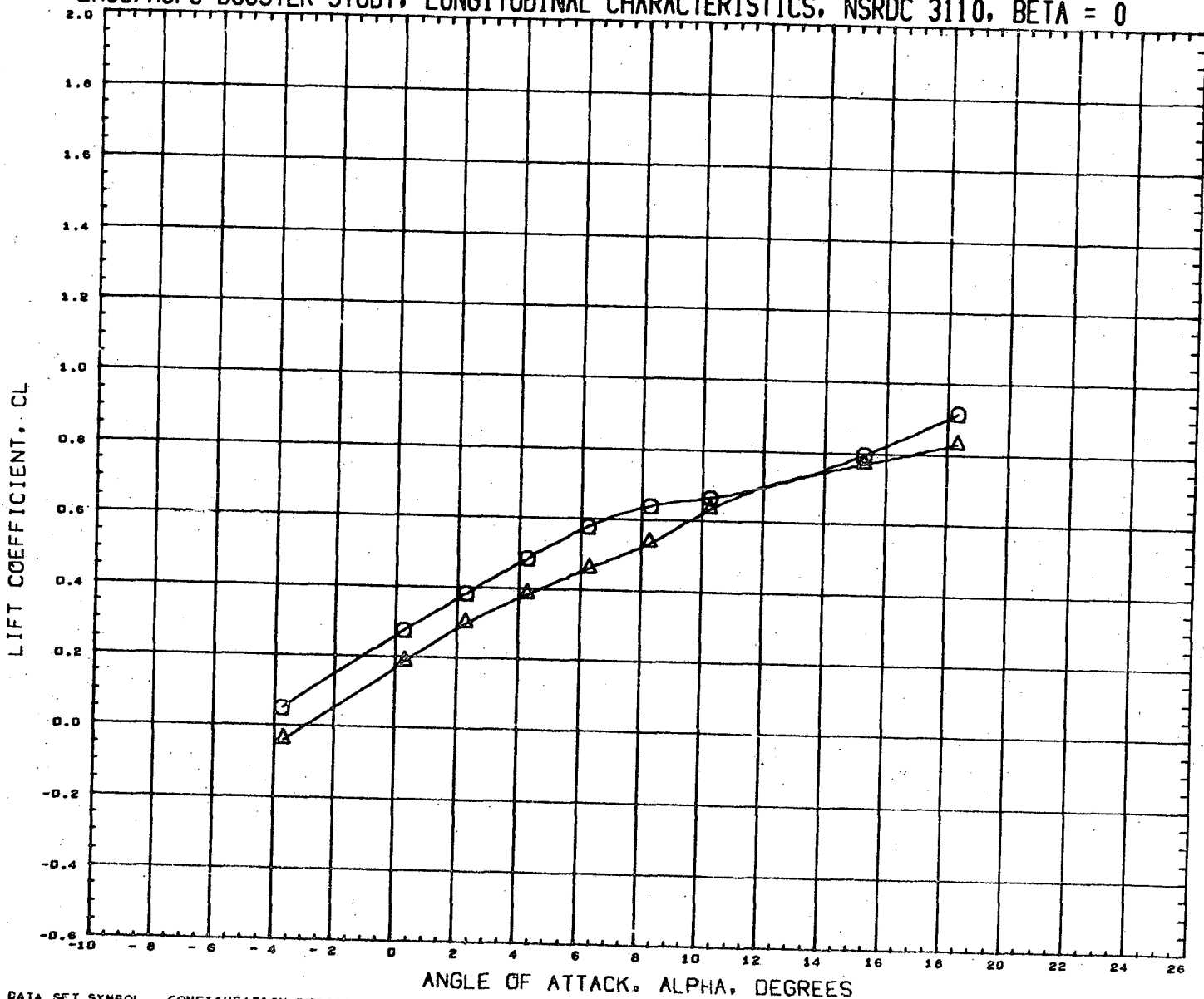
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2297)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2313)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.392

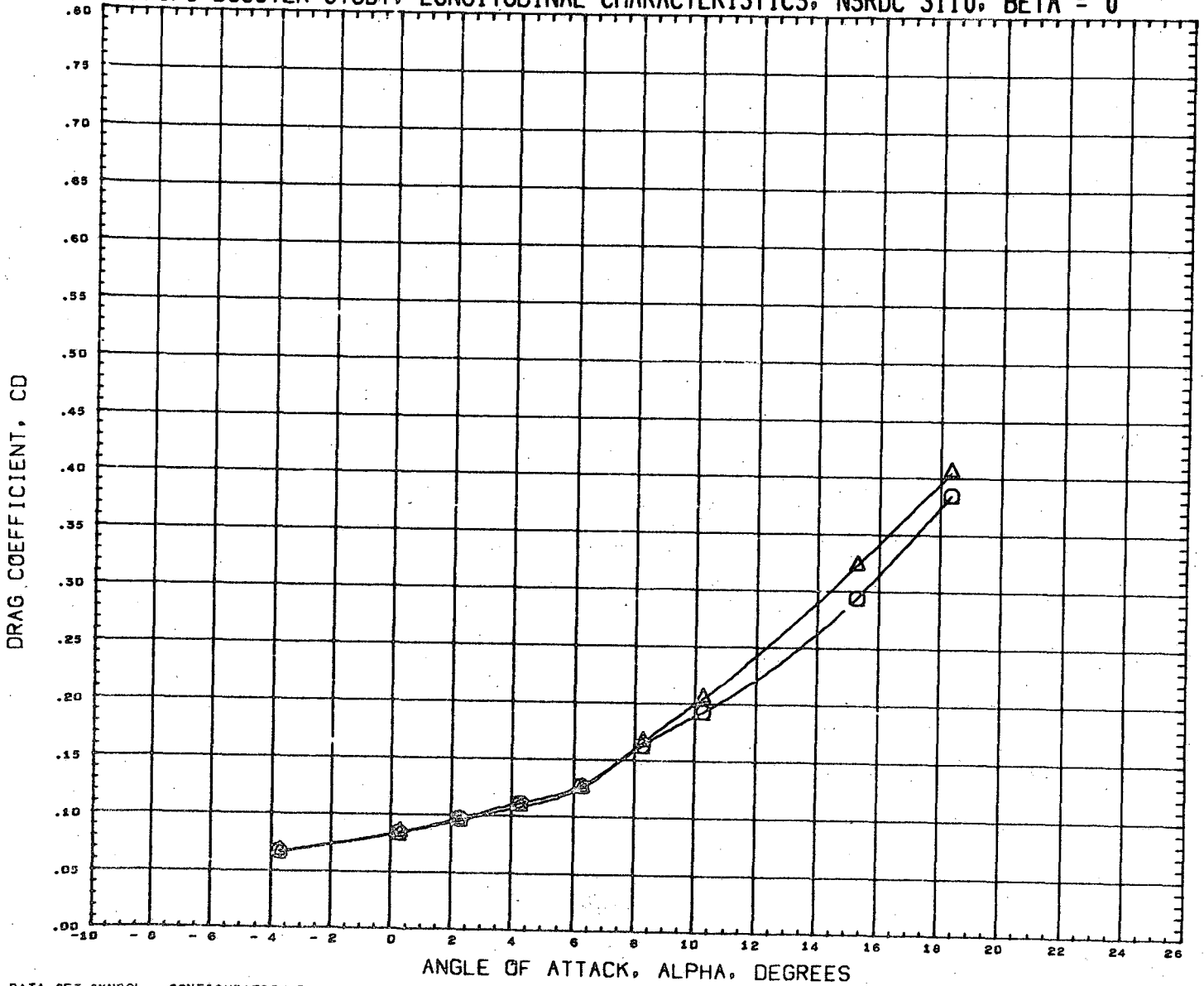
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2297)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2313)	NSRDC-3110, MSFC/LHSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2297)
(RN2313)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.362

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2297)
(RN2313)



CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1
NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1

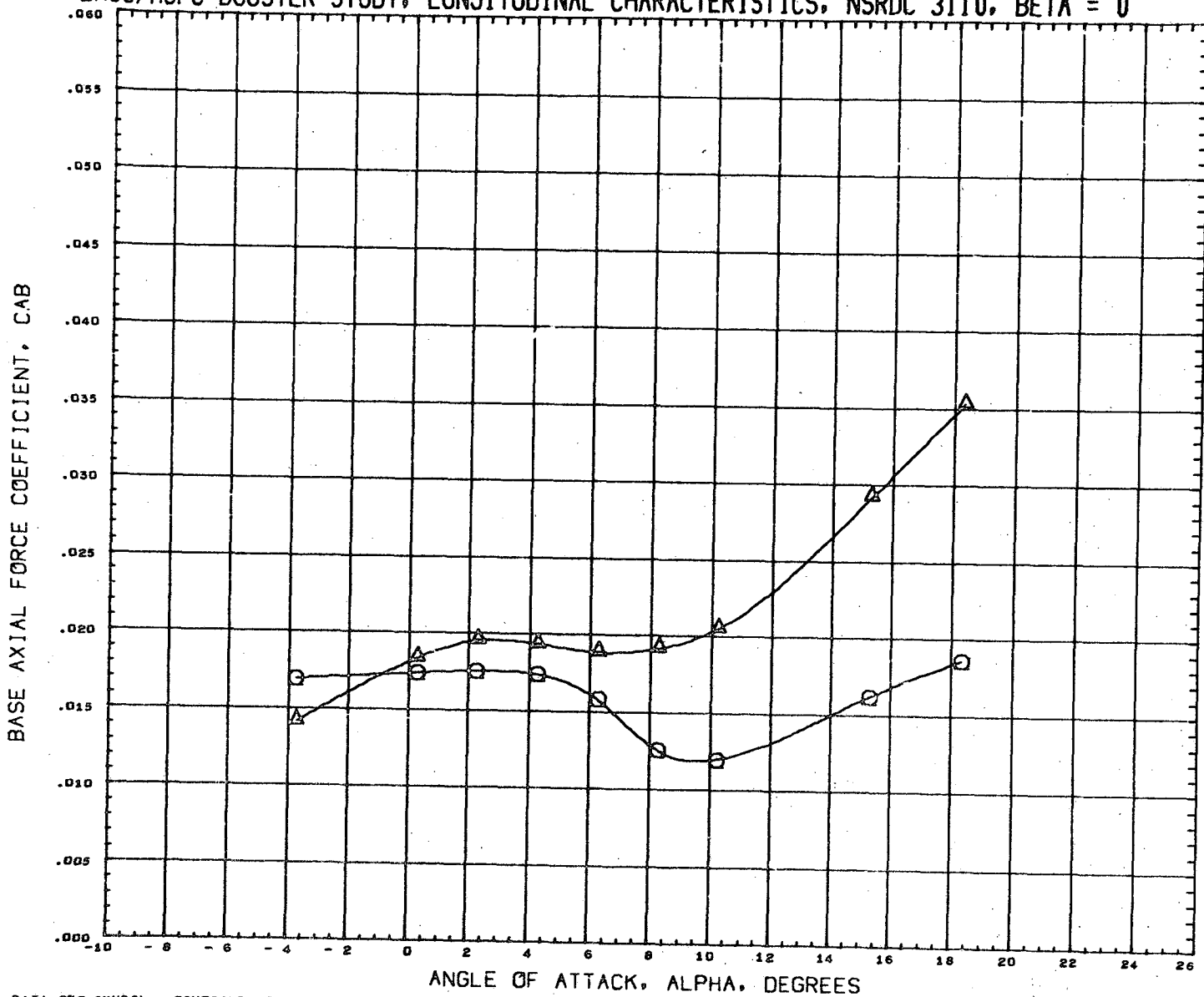
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.382

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



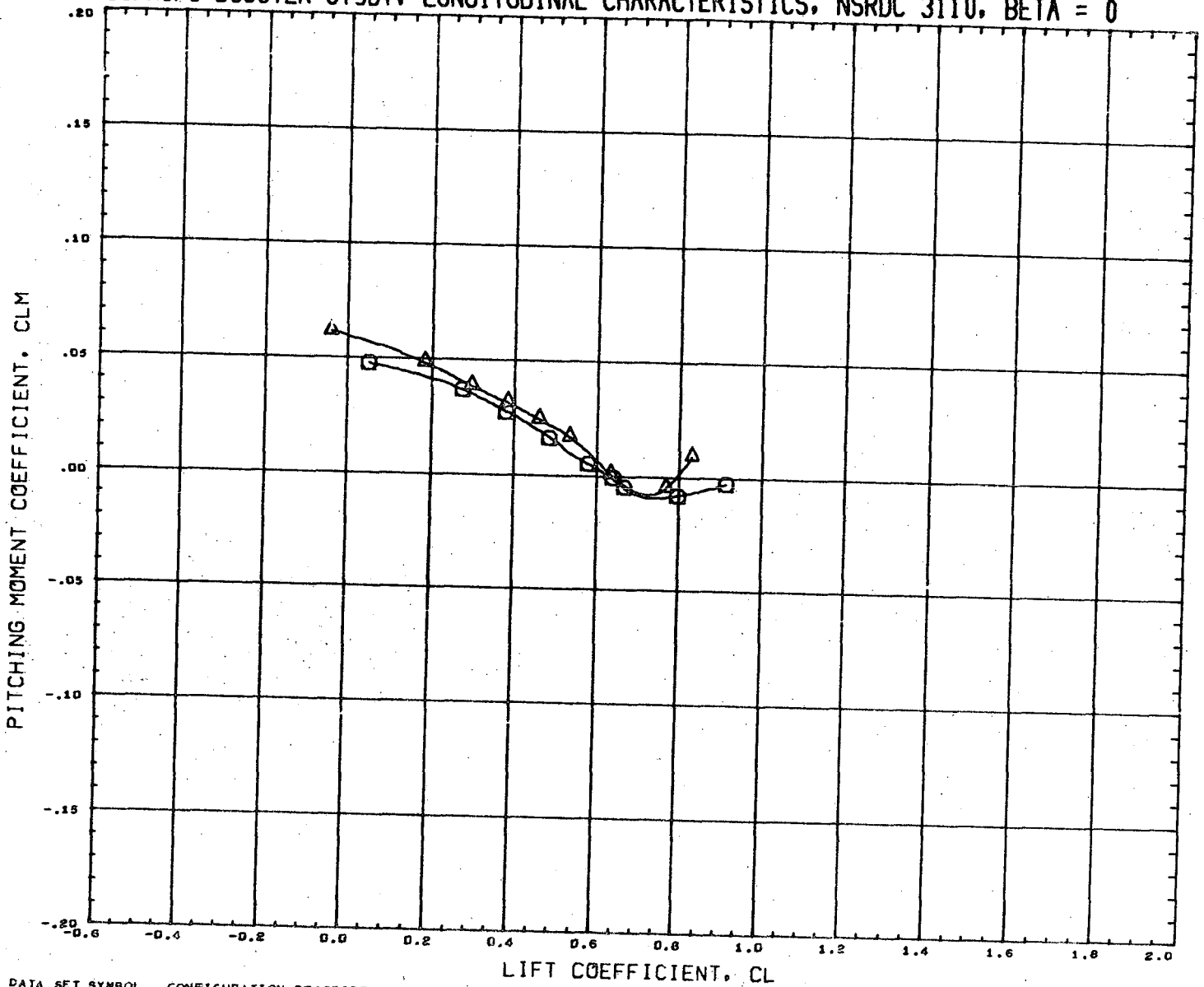
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2297) NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
 (RN2313) NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC CNDPOS INCIDW WNGPOS
 15.000 2.000 3.000 1.000
 15.000 2.000 3.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.362

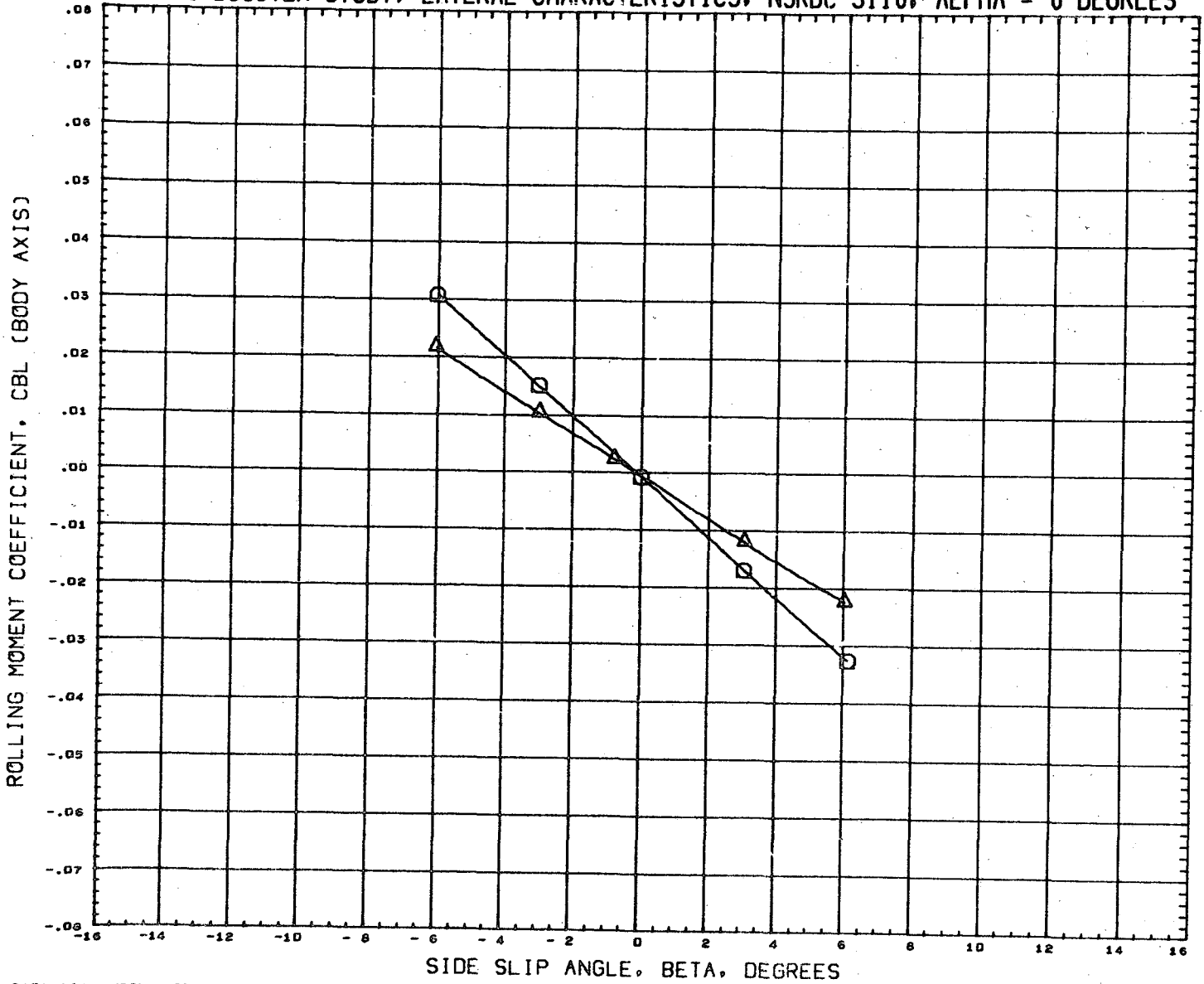
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2297)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2313)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

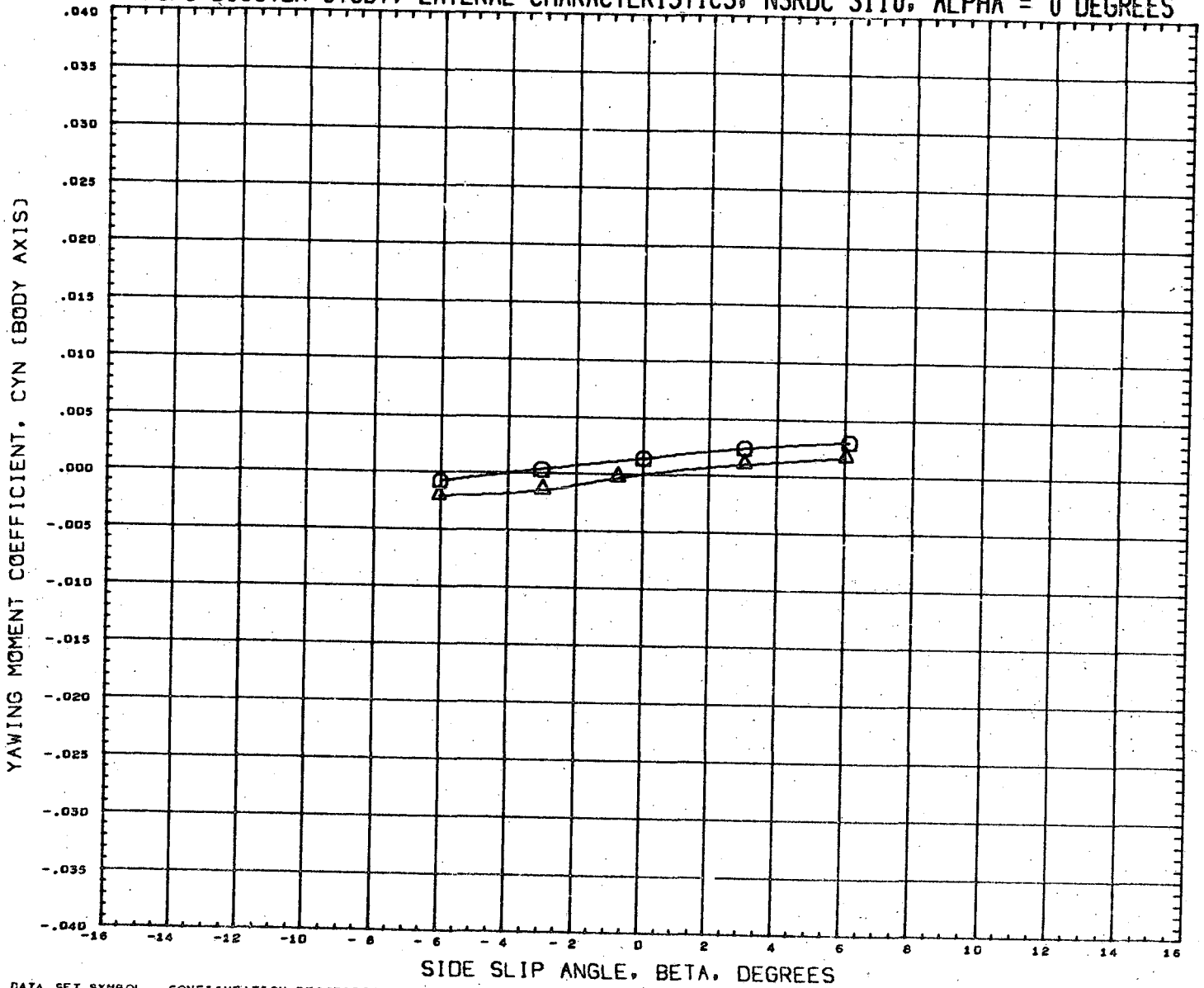
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2298)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2314)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



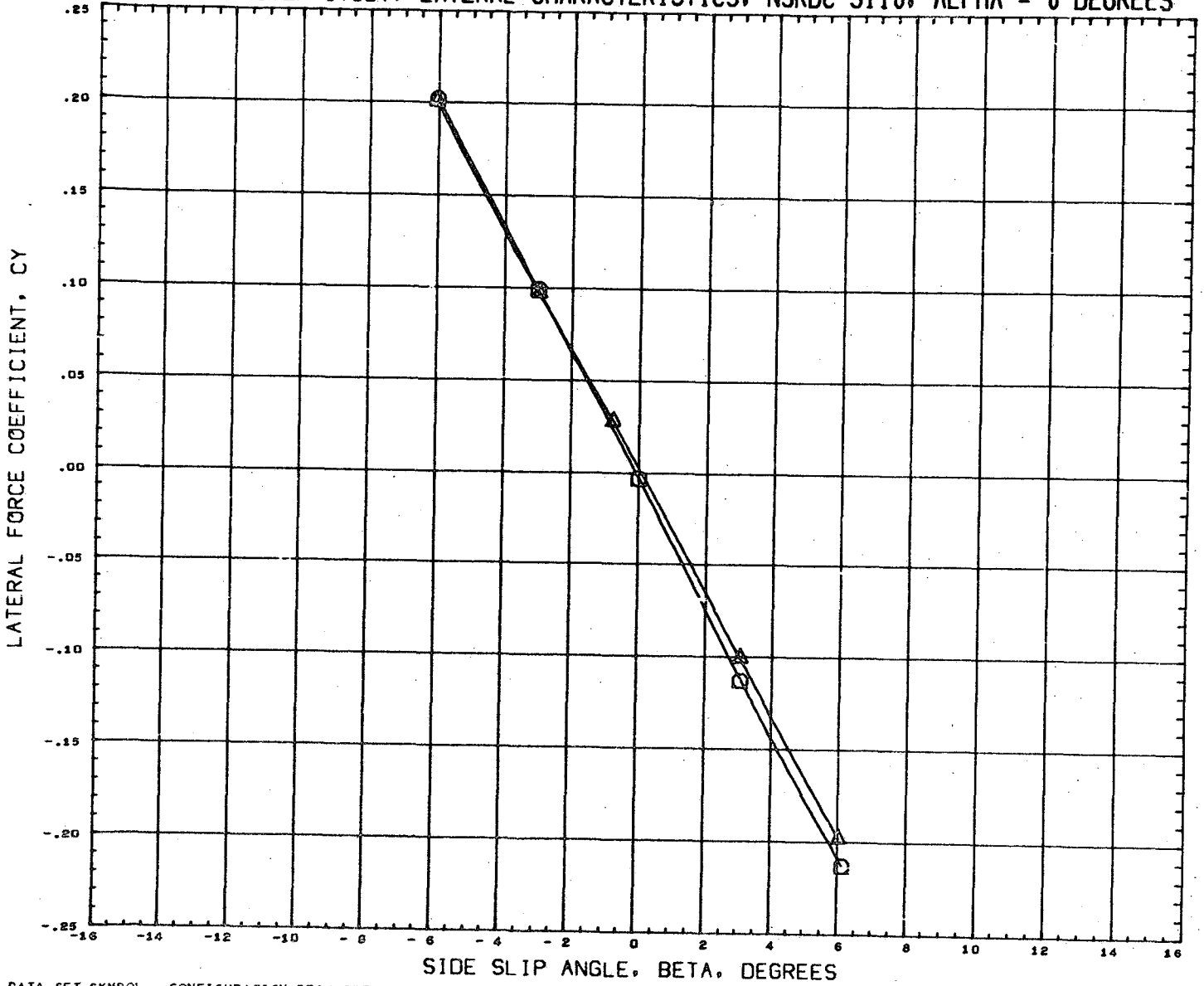
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2298)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1
(RN2314)	NSRDC-3110, MSFC/LMSC BOOSTER B1C2F1W2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XHRP	31.1400 INCHES
YHRP	0.0000 INCHES
ZHRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.380

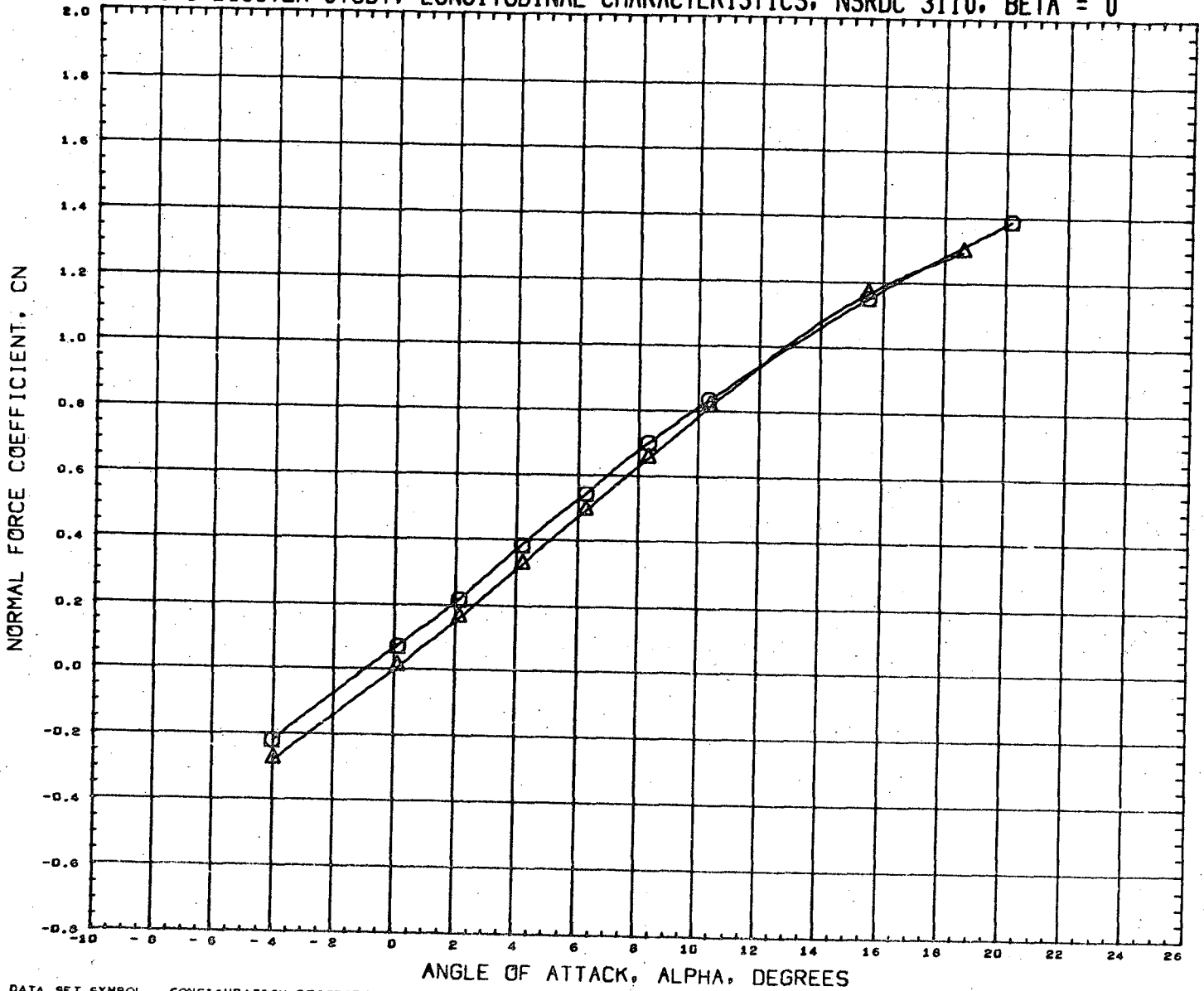
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2298)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2314)	NSRDC-3110,MSFC/LMSC BOOSTER B1C2F1W2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

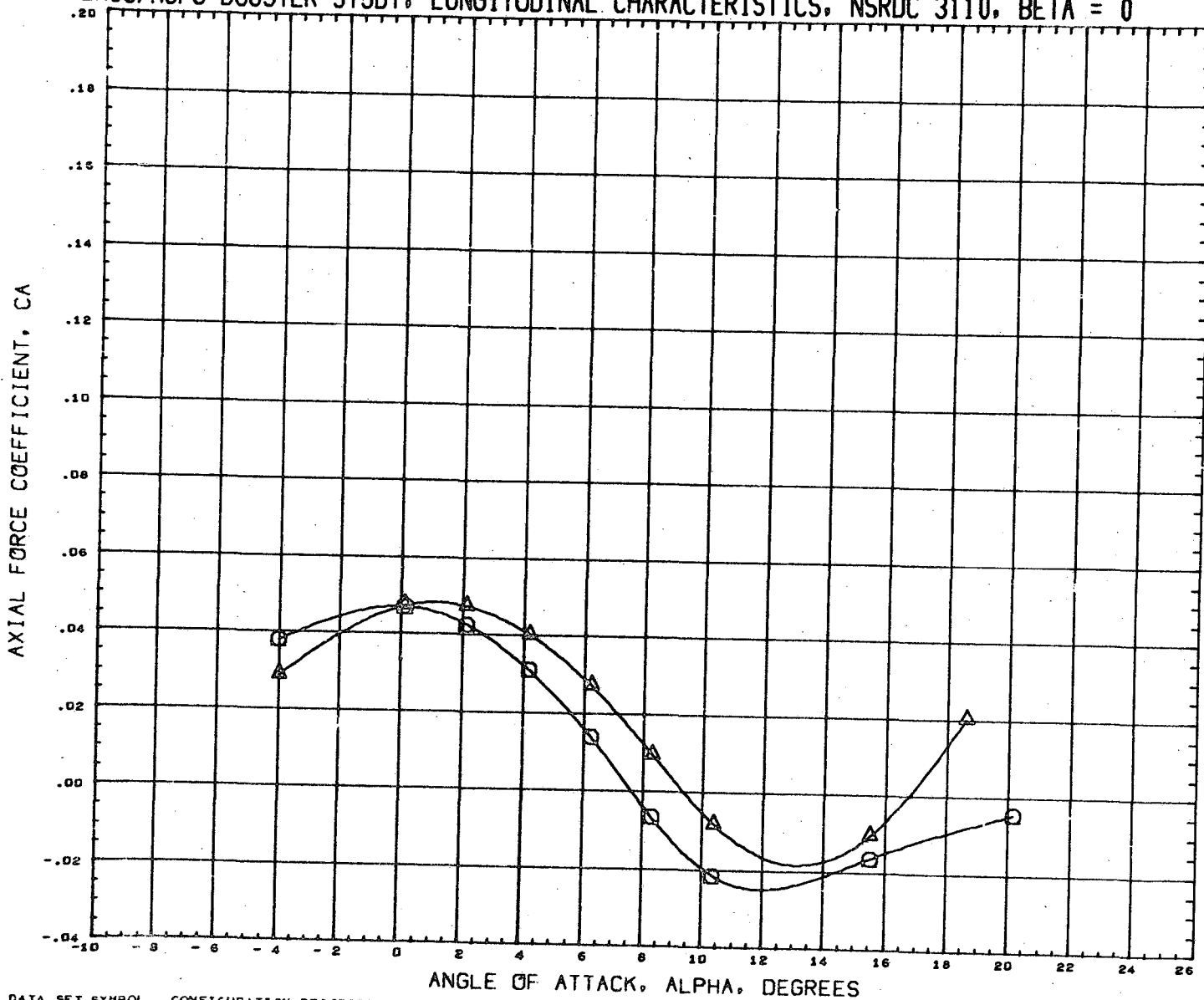
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2065)	NSREC-3110,MSFC/LMSC BOOSTER B1C1F1W1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2081)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

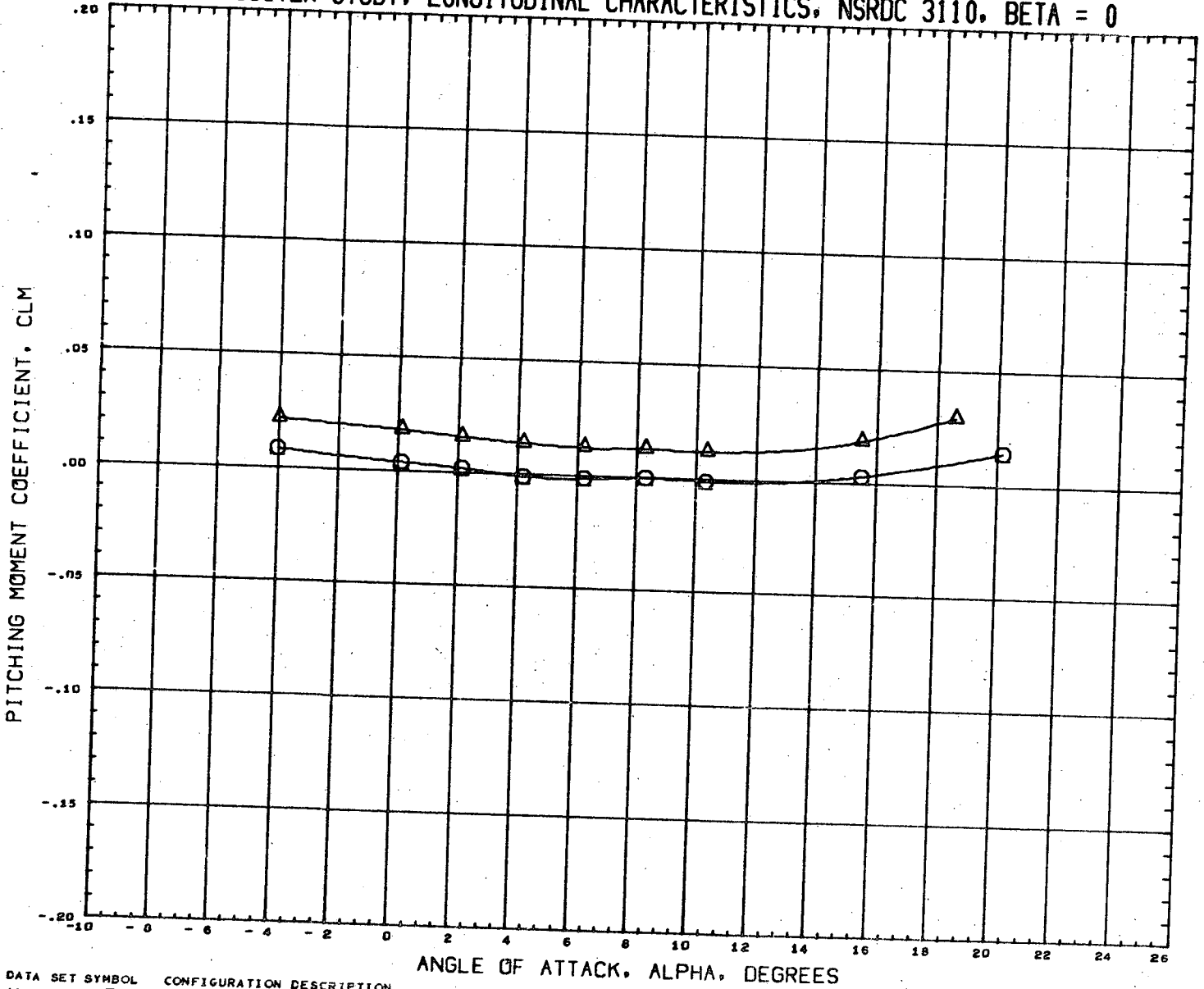
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2065)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2081)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2065)
 (RN2081)

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

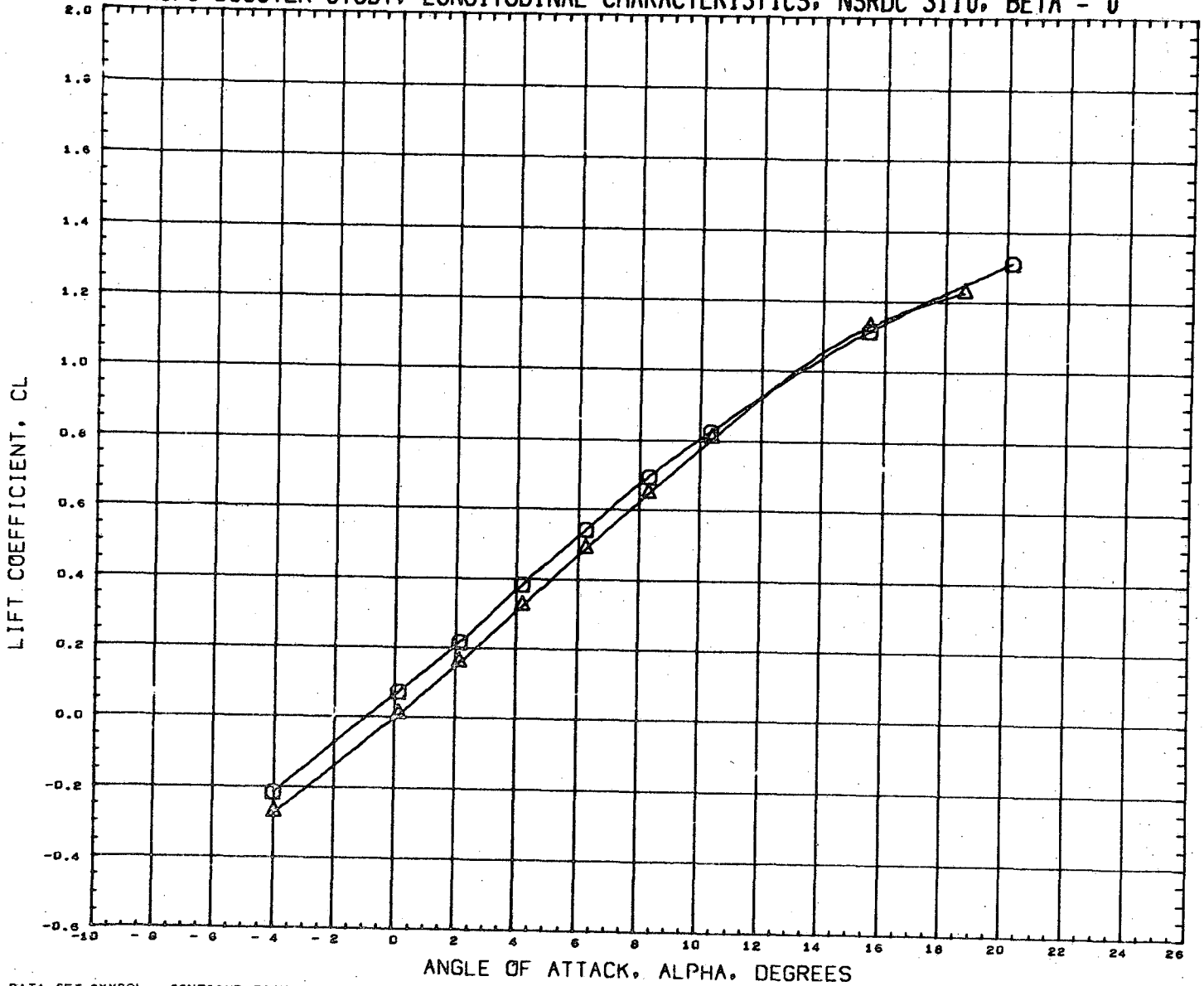
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.361

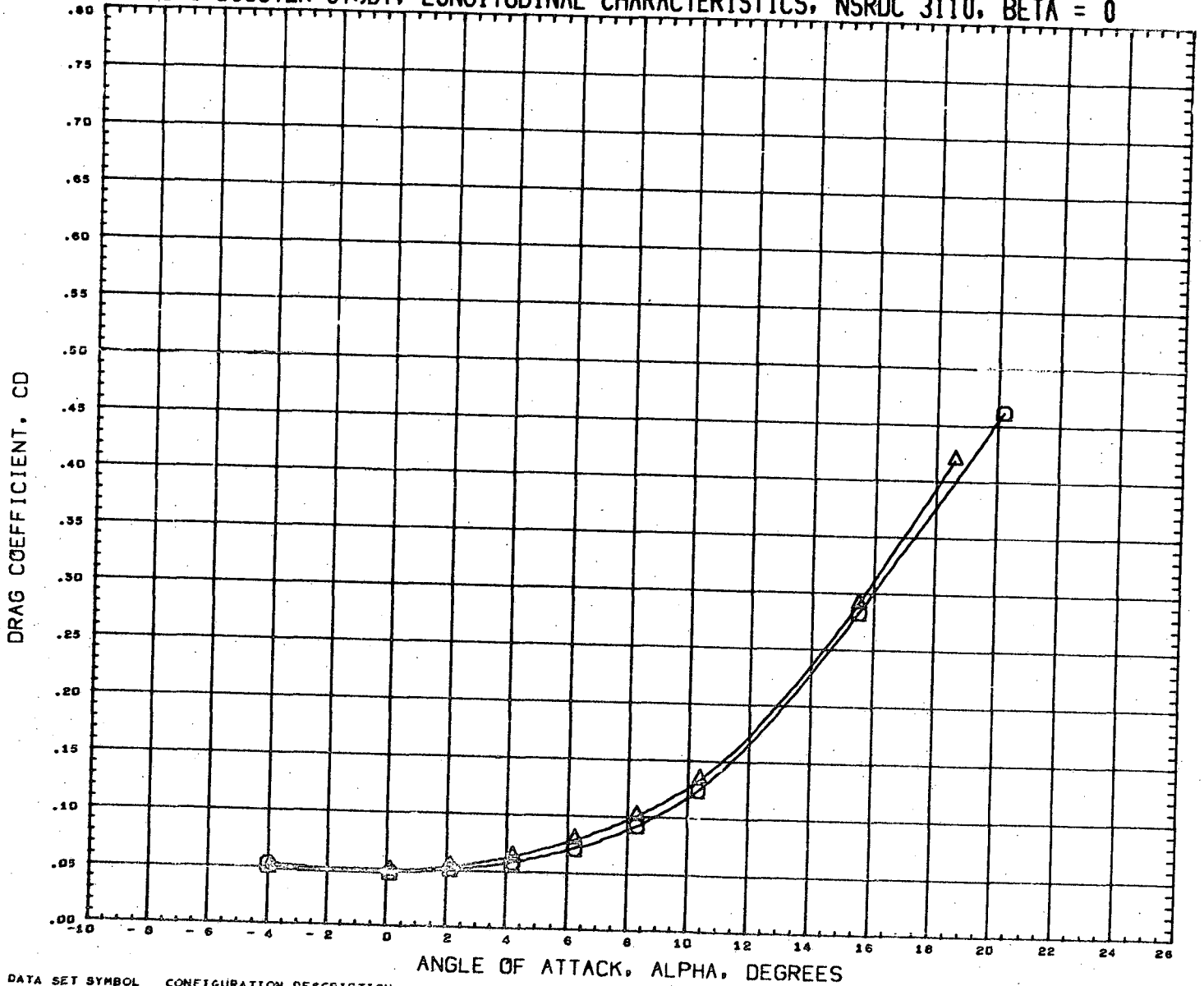
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2065)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2081)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



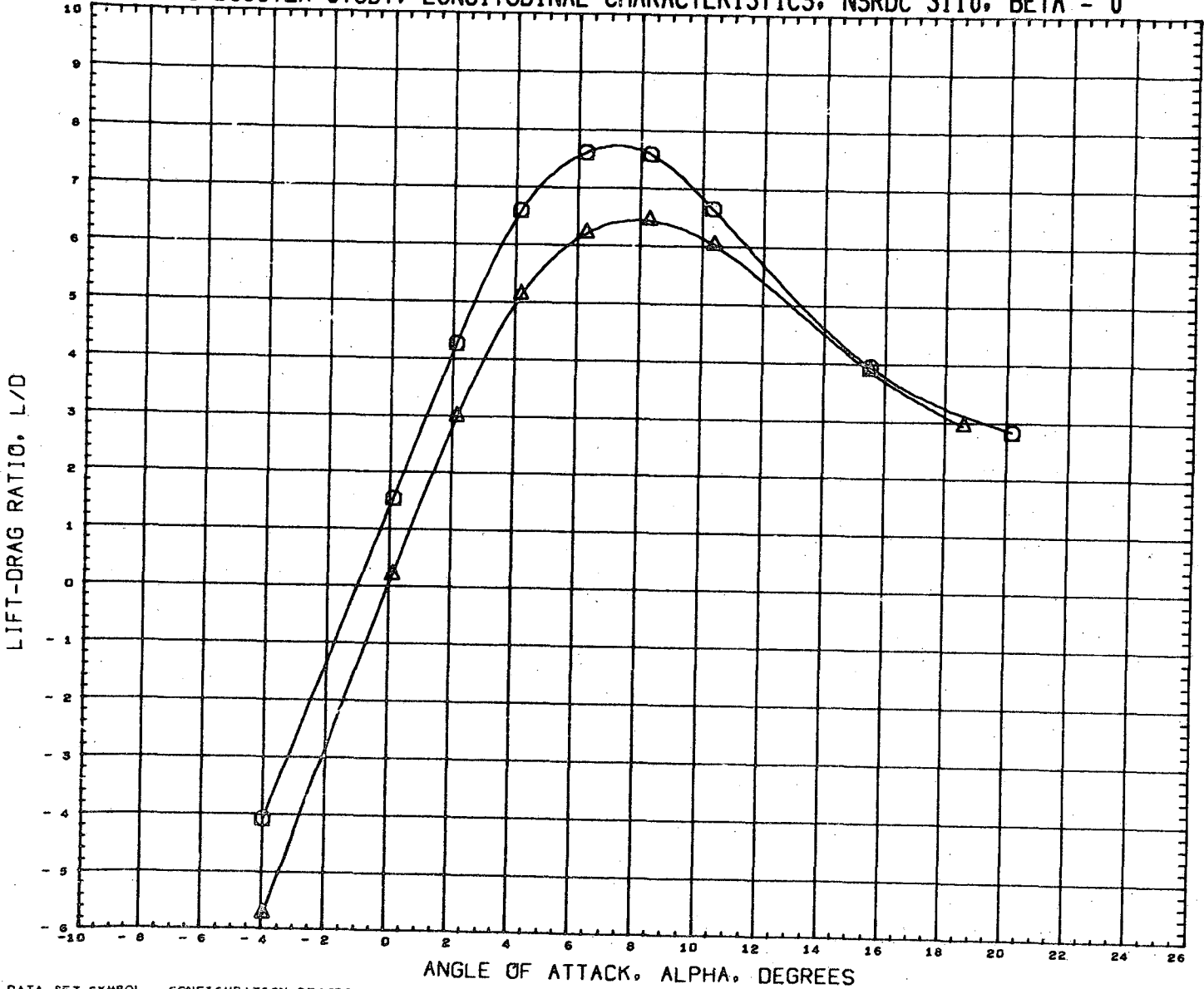
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2065)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2081)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

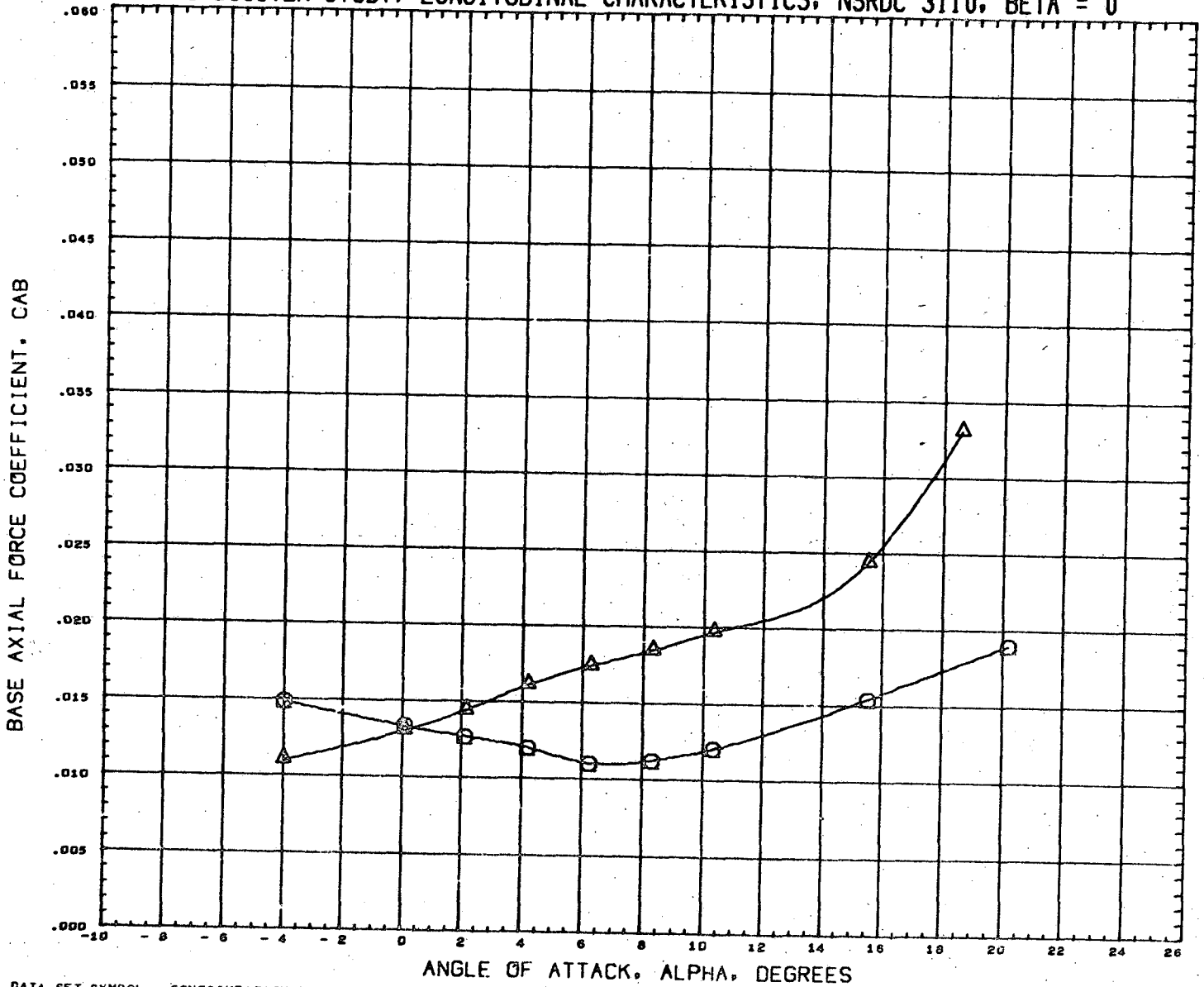
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2065)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2081)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2065) \circ
(RN2081) \triangle

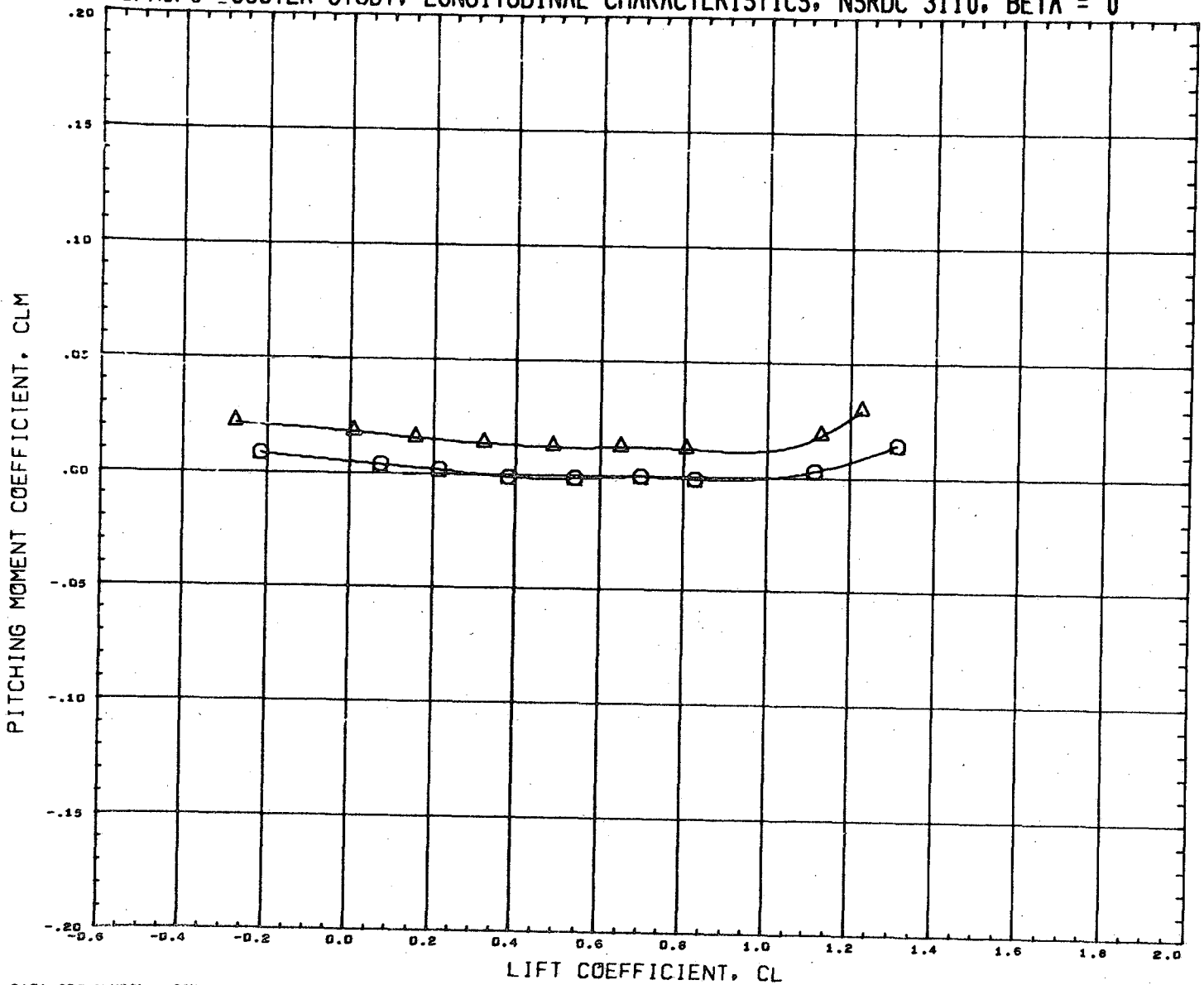
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC 3.000
CNDPOS 1.000
INCIDW 0.000
WNGPOS 1.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.381

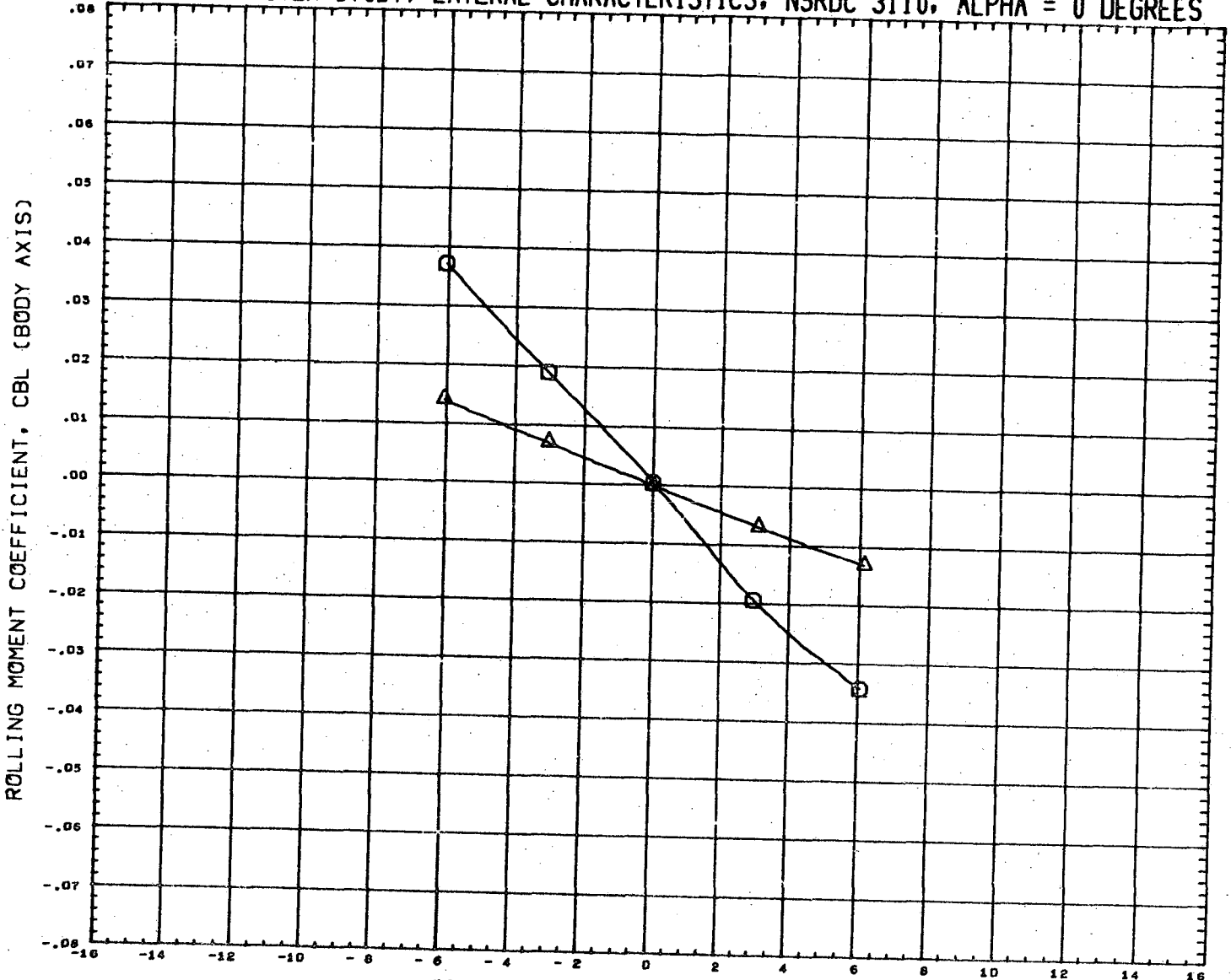
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2065)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2081)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2066) ○
(RN2062) △

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1

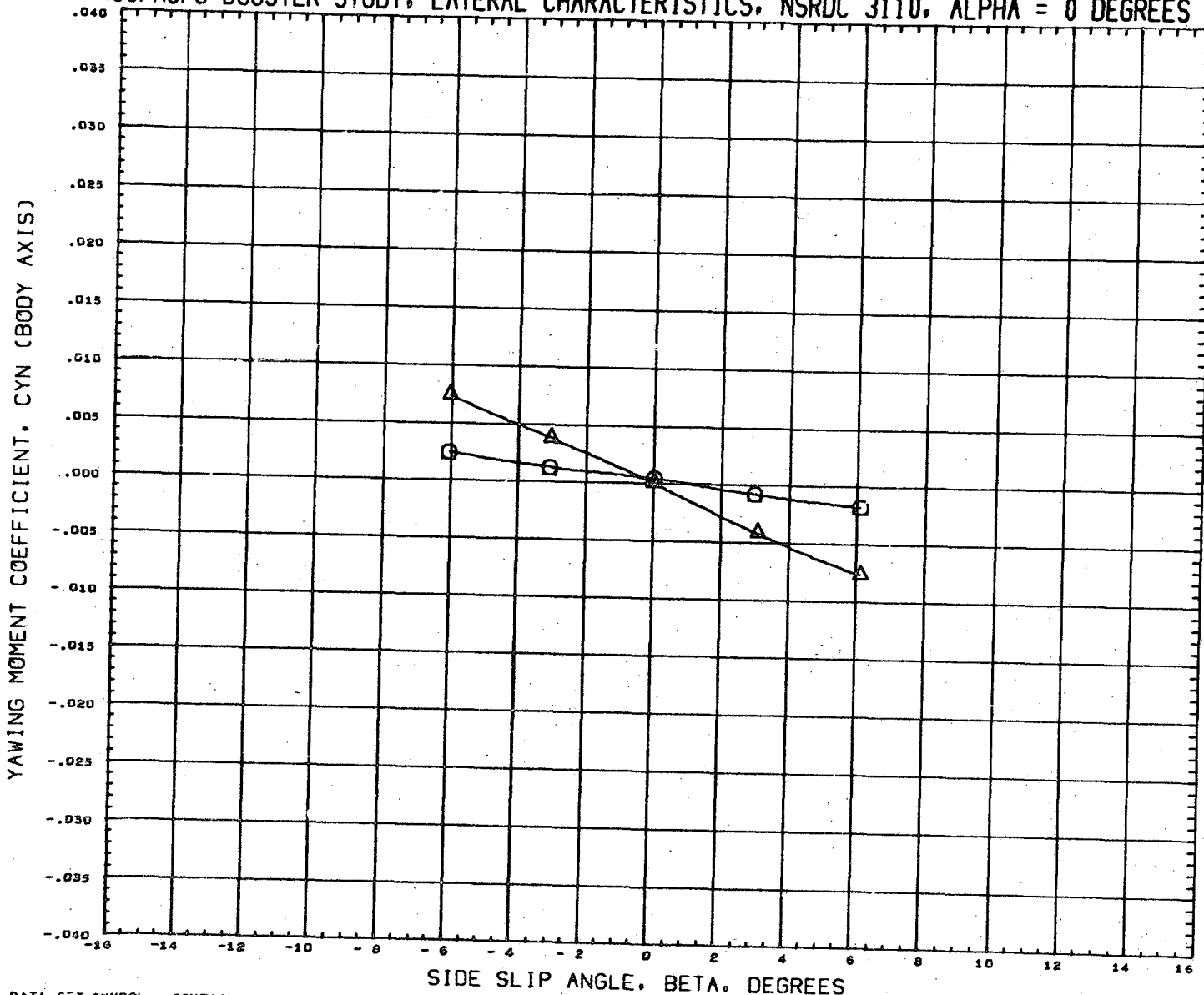
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.361

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



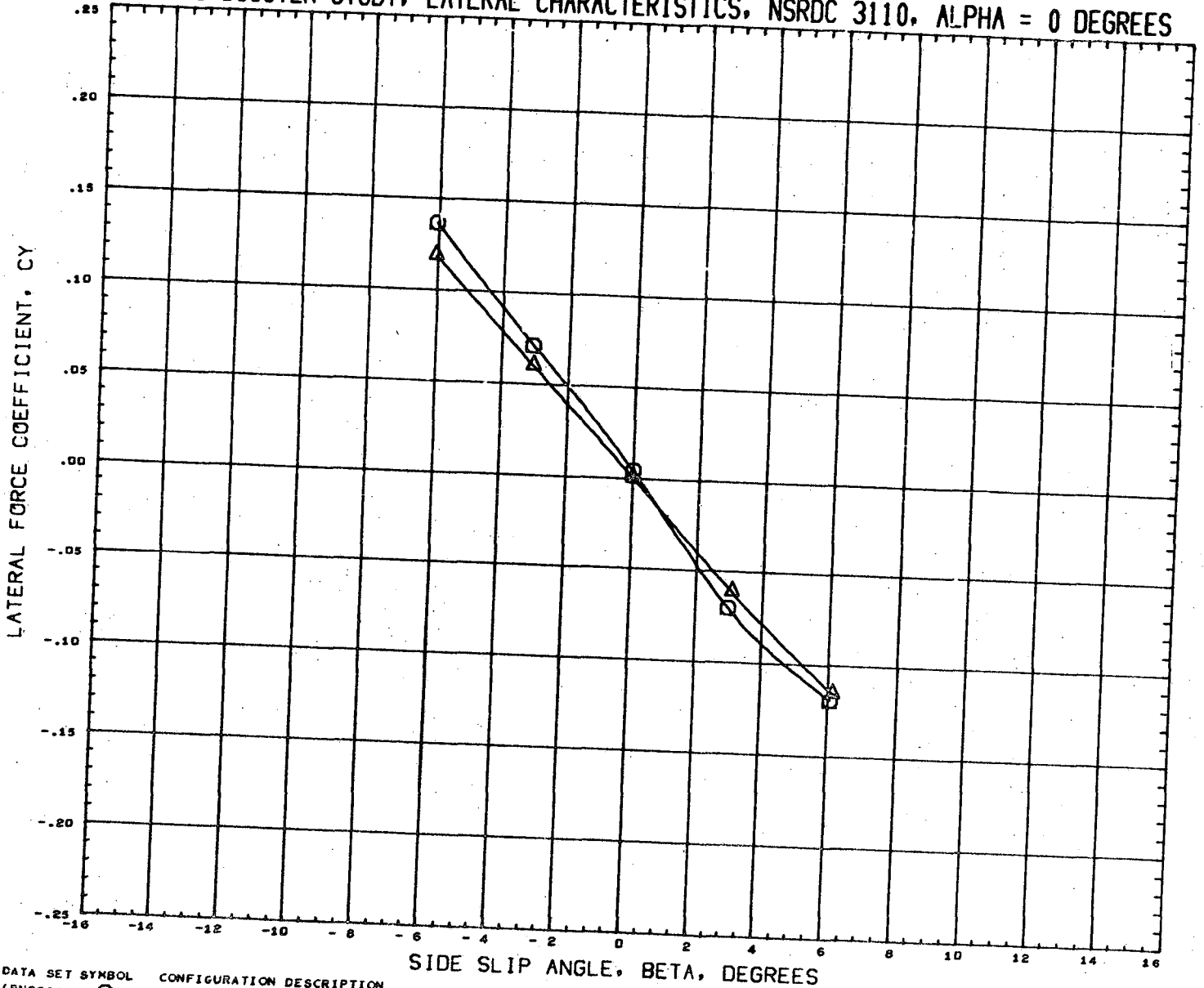
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2065) ○	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2082) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2066)
(RN2082)



CONFIGURATION DESCRIPTION

NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

SIDE SLIP ANGLE, BETA, DEGREES

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

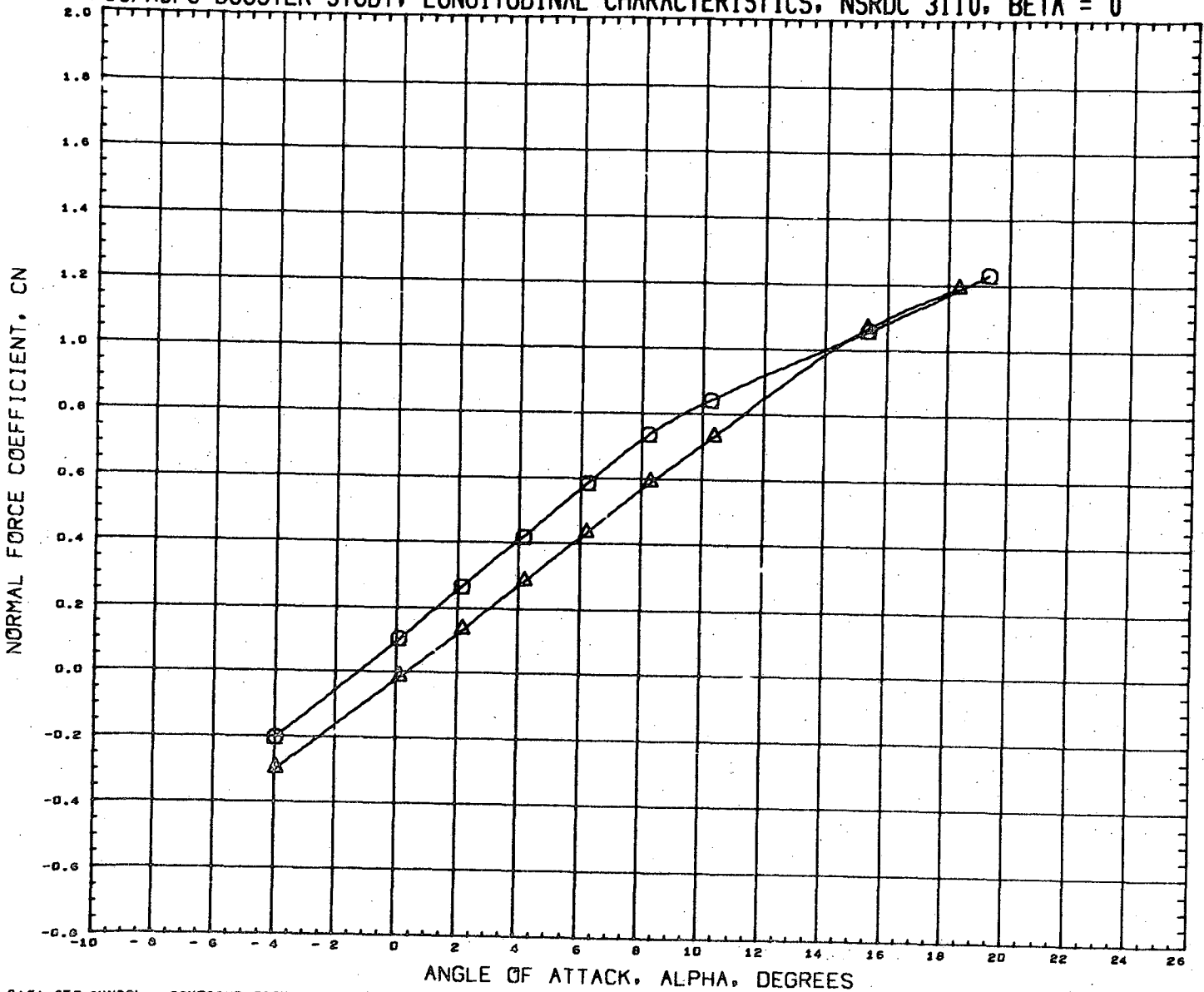
REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH

0.361

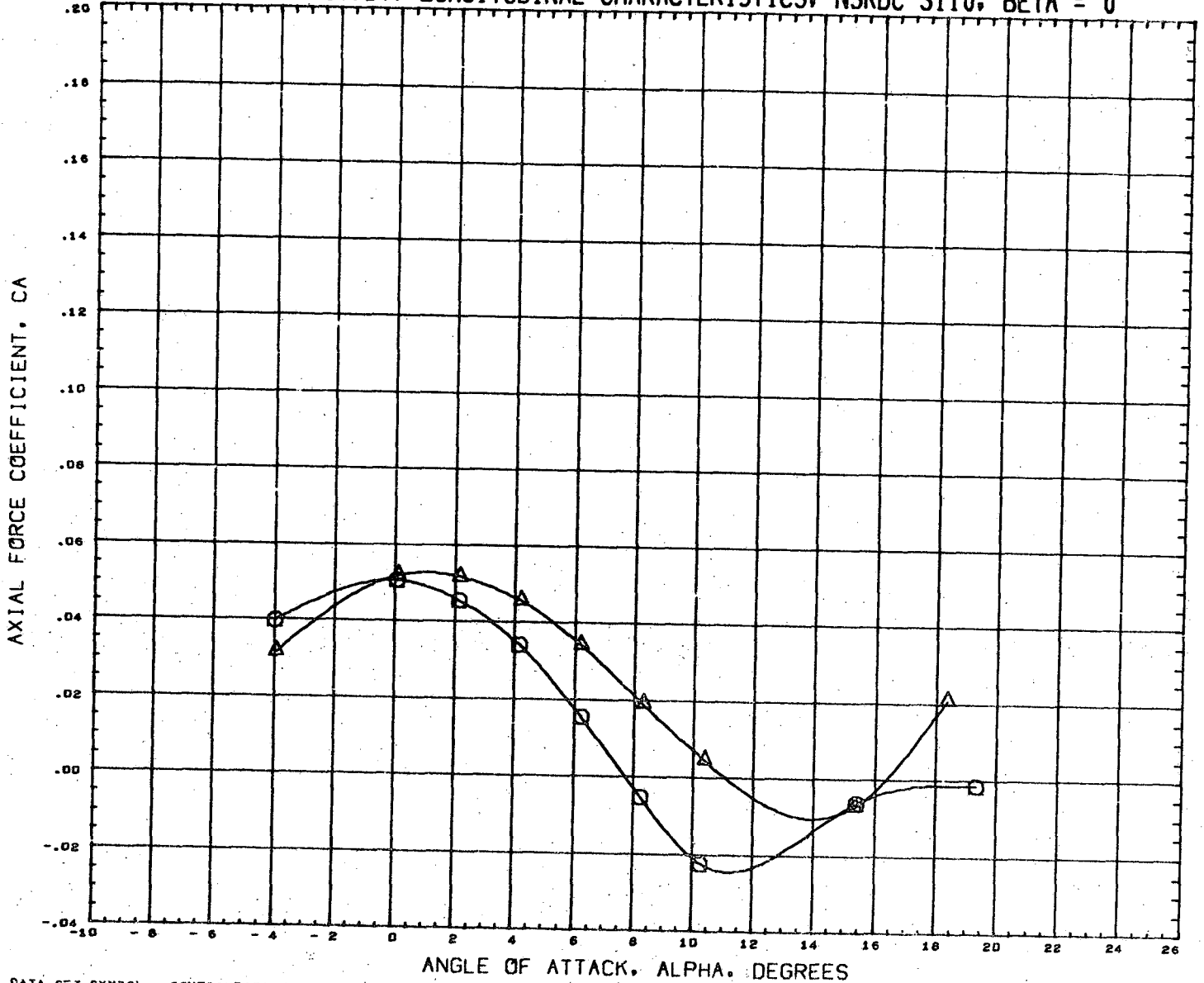
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2073)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2089)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

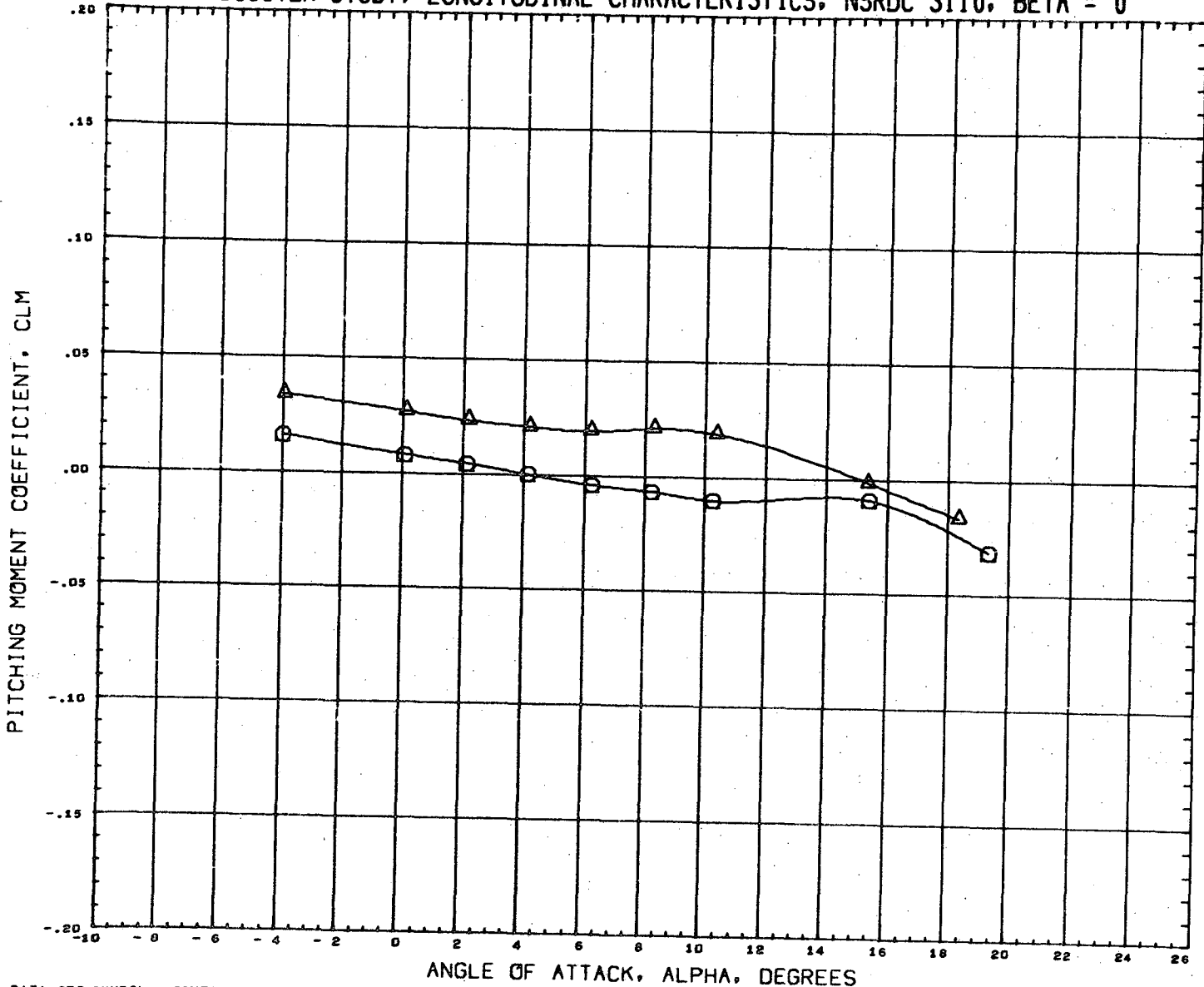
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2073)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2089)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						YMRP 31.1400 INCHES
						ZMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

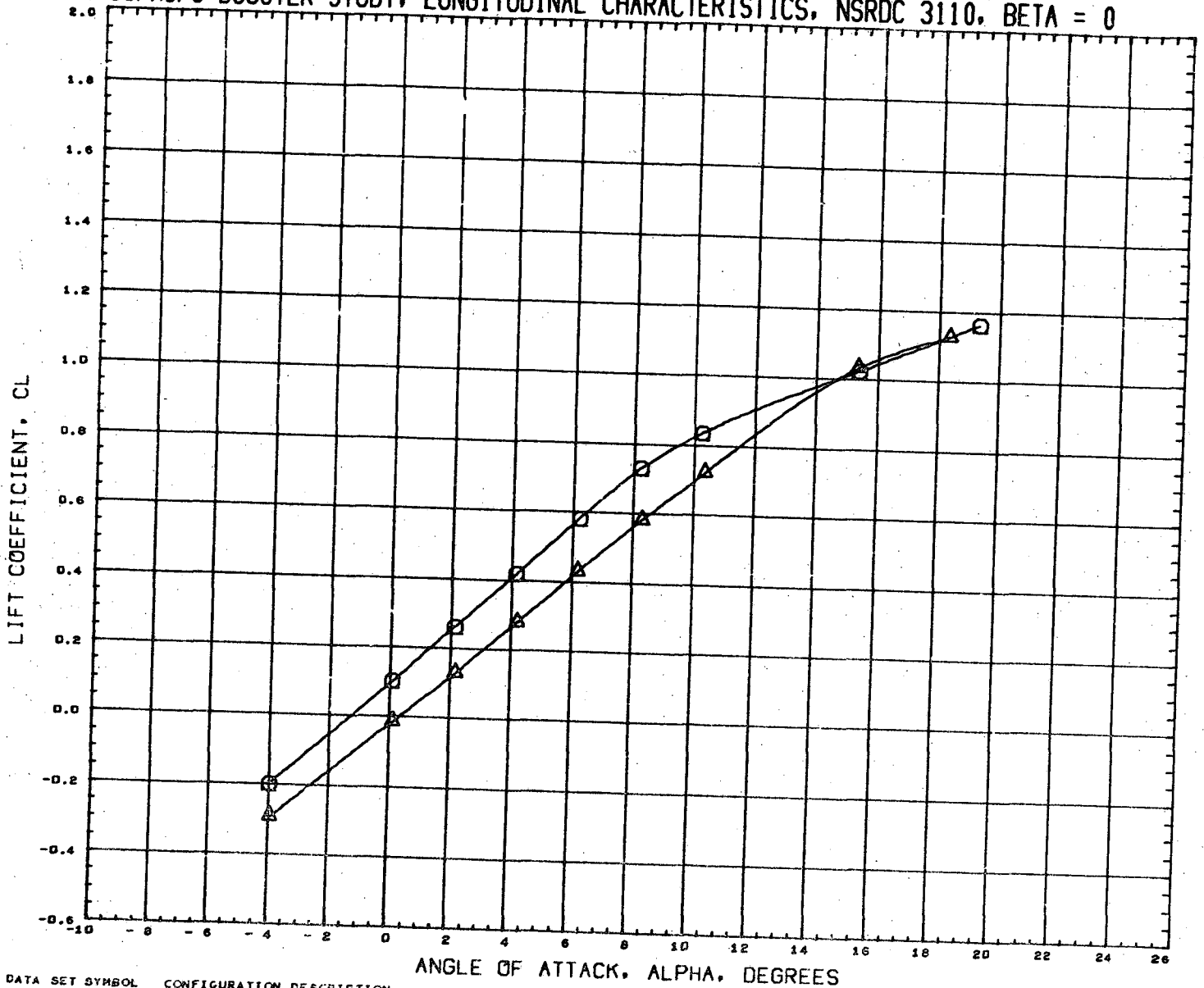
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2073)	NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2089)	NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2073)
(RN2089)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

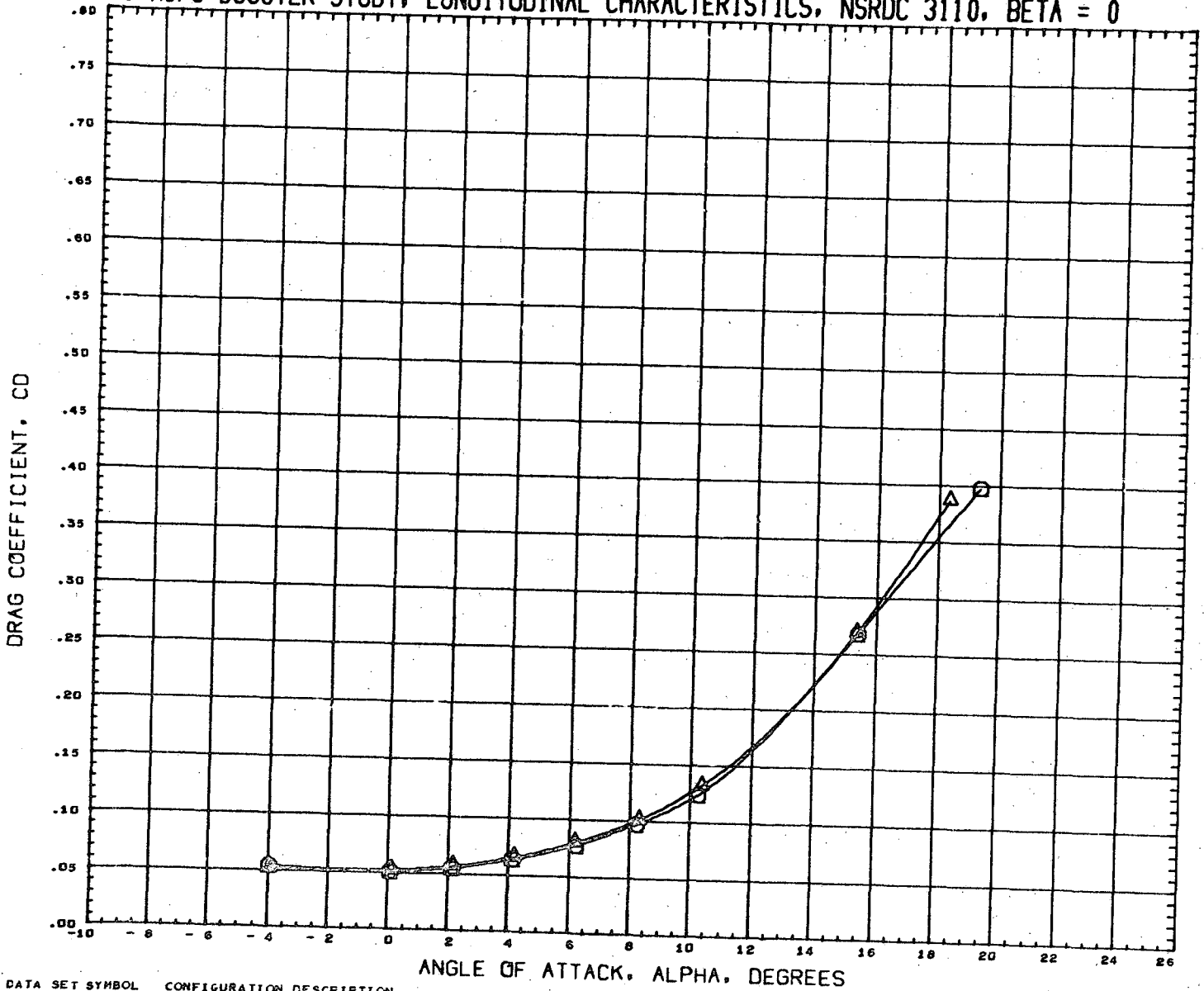
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2073)
(RN2089)



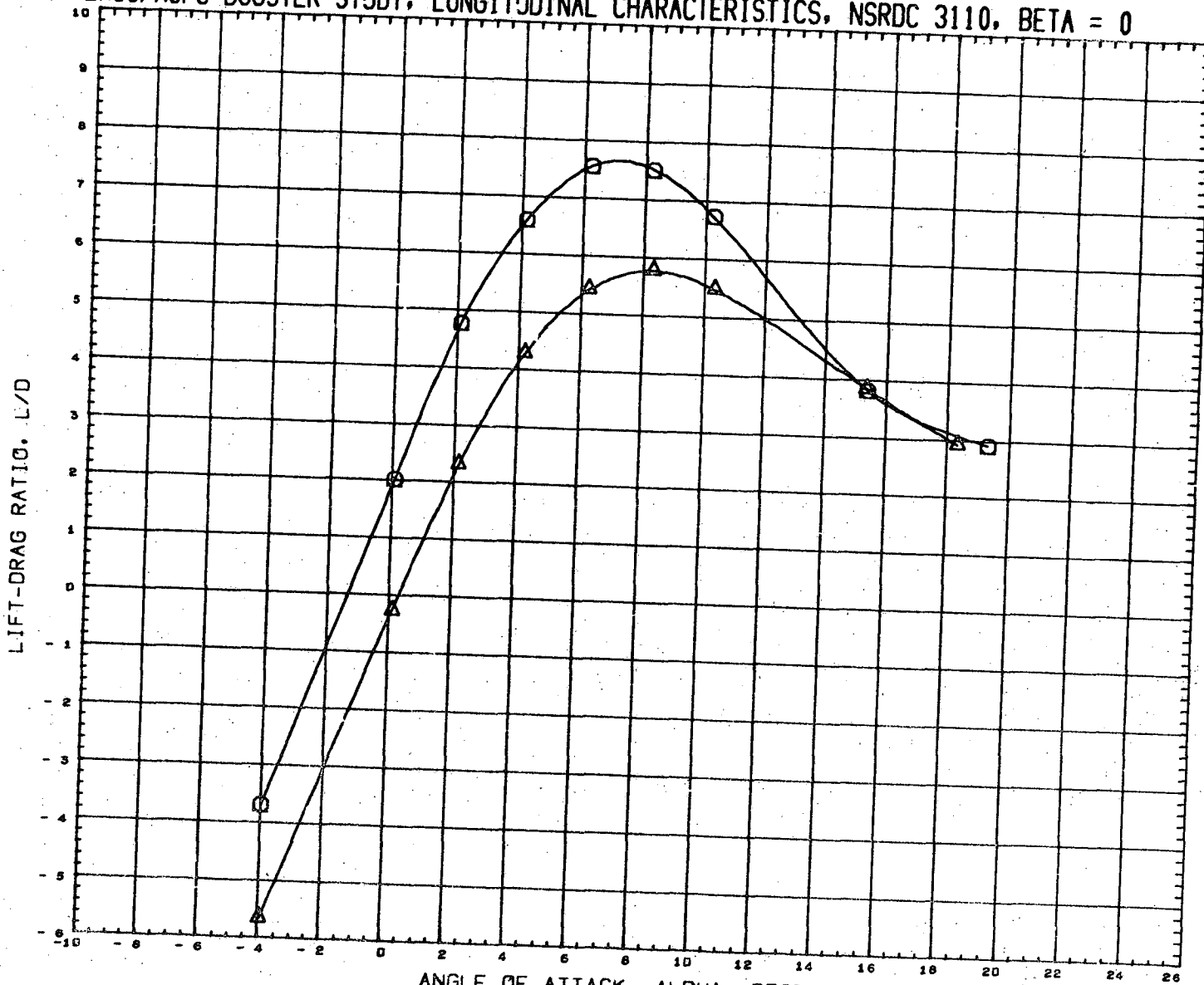
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3950 SW. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2073)
(RN2089)



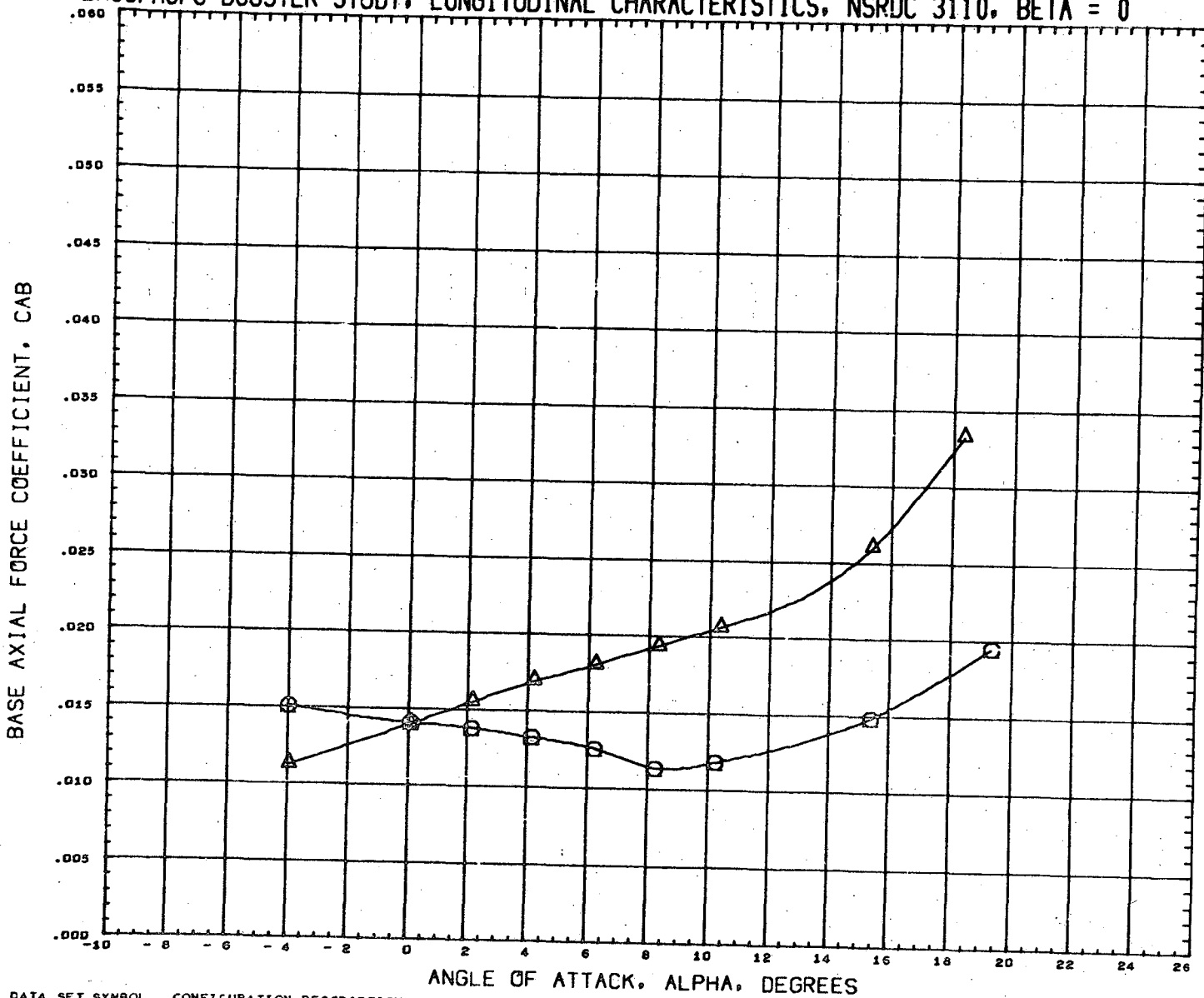
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2073) ○
(RN2089) △

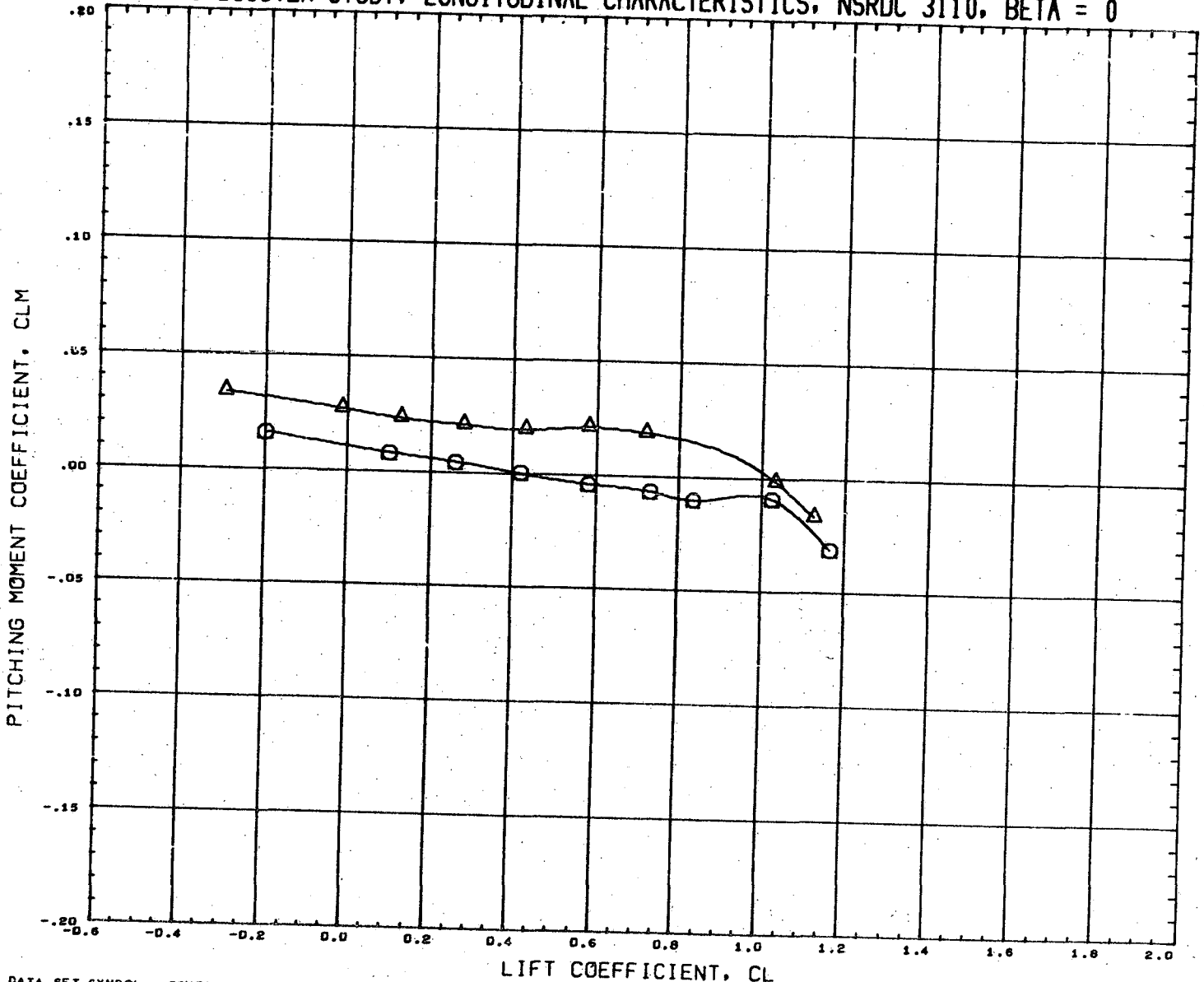
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YNRP	0.5000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2073) \circ
(RN2089) \triangle

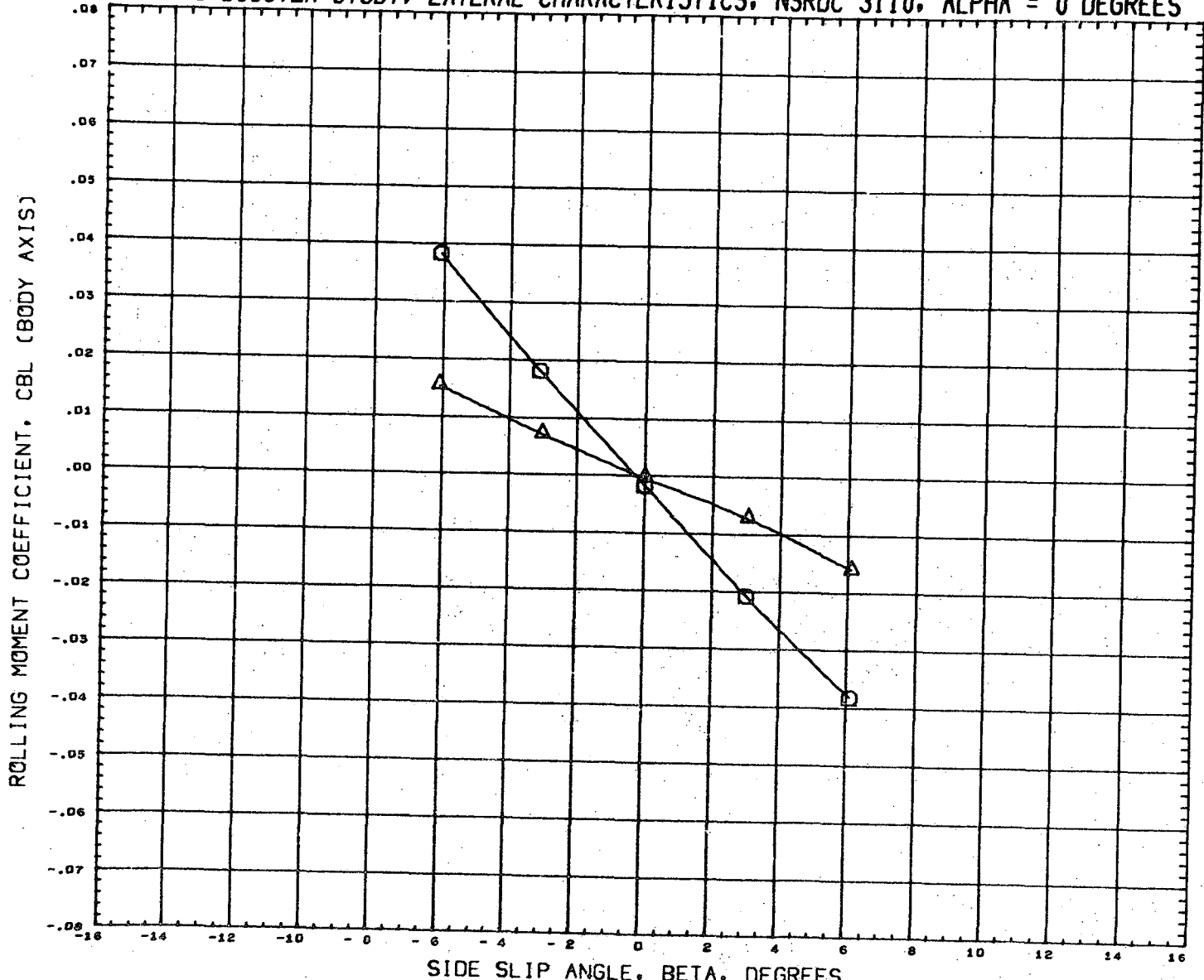
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SG. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

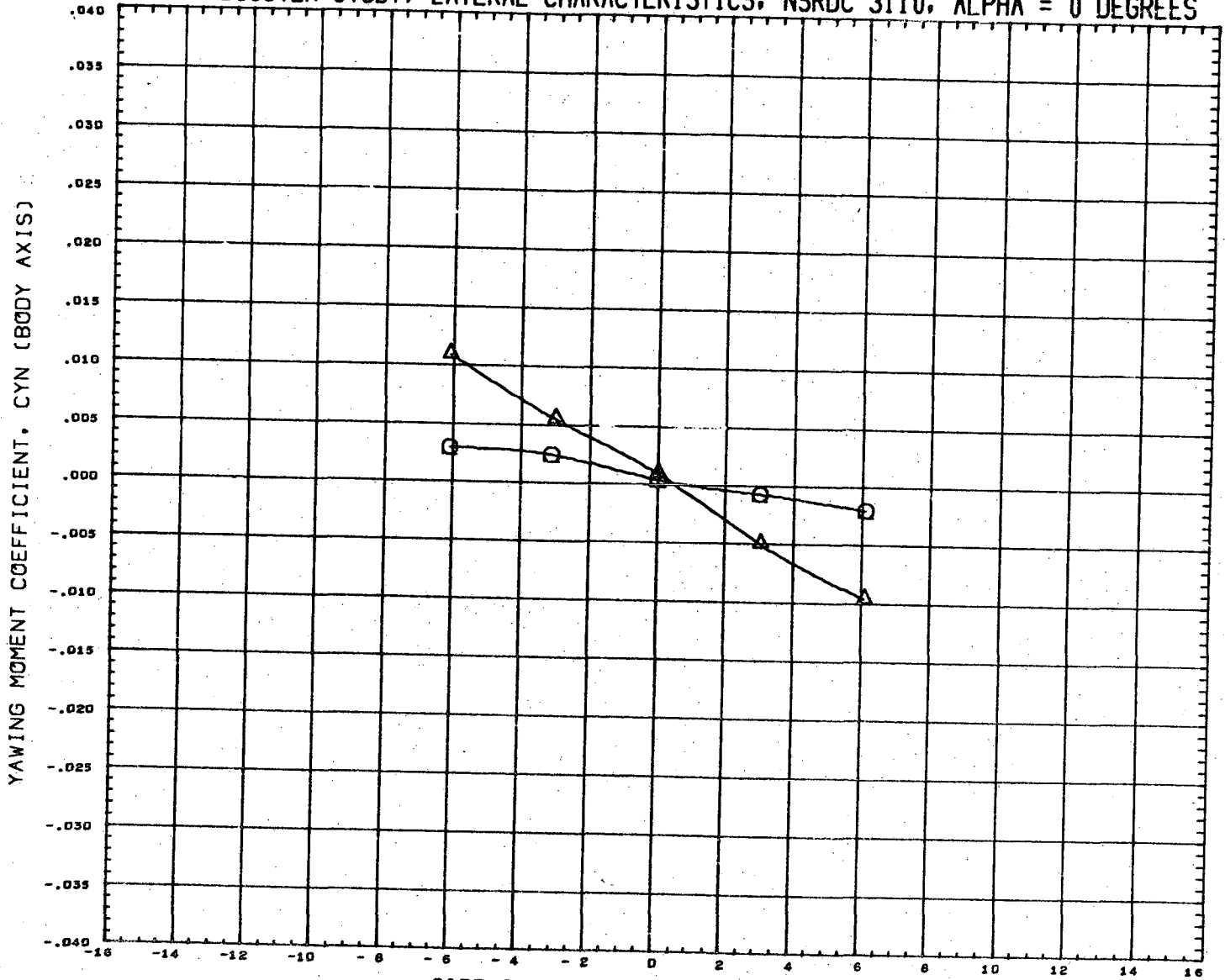
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2074)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2090)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

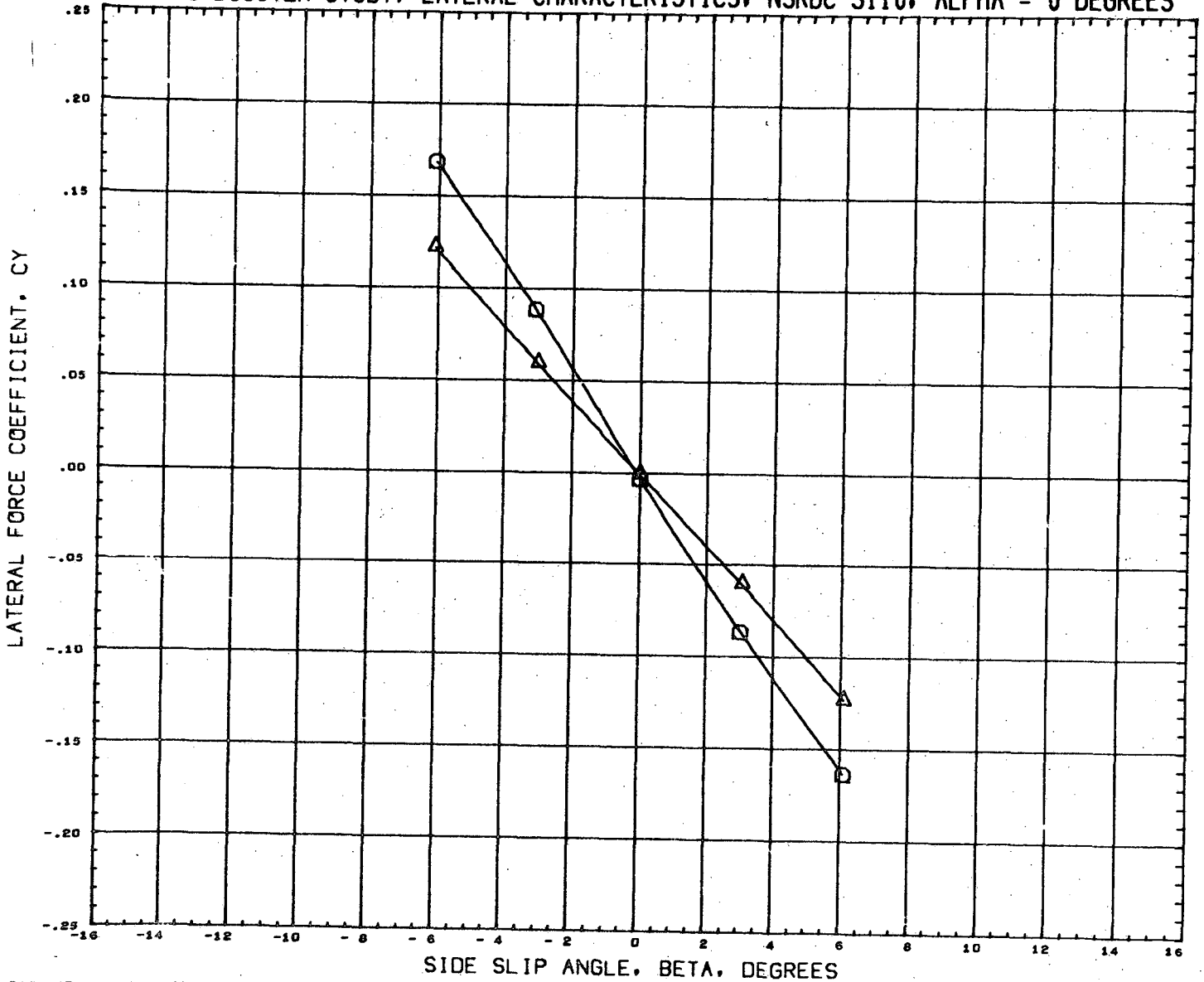


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2074)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2090)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.361

134

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



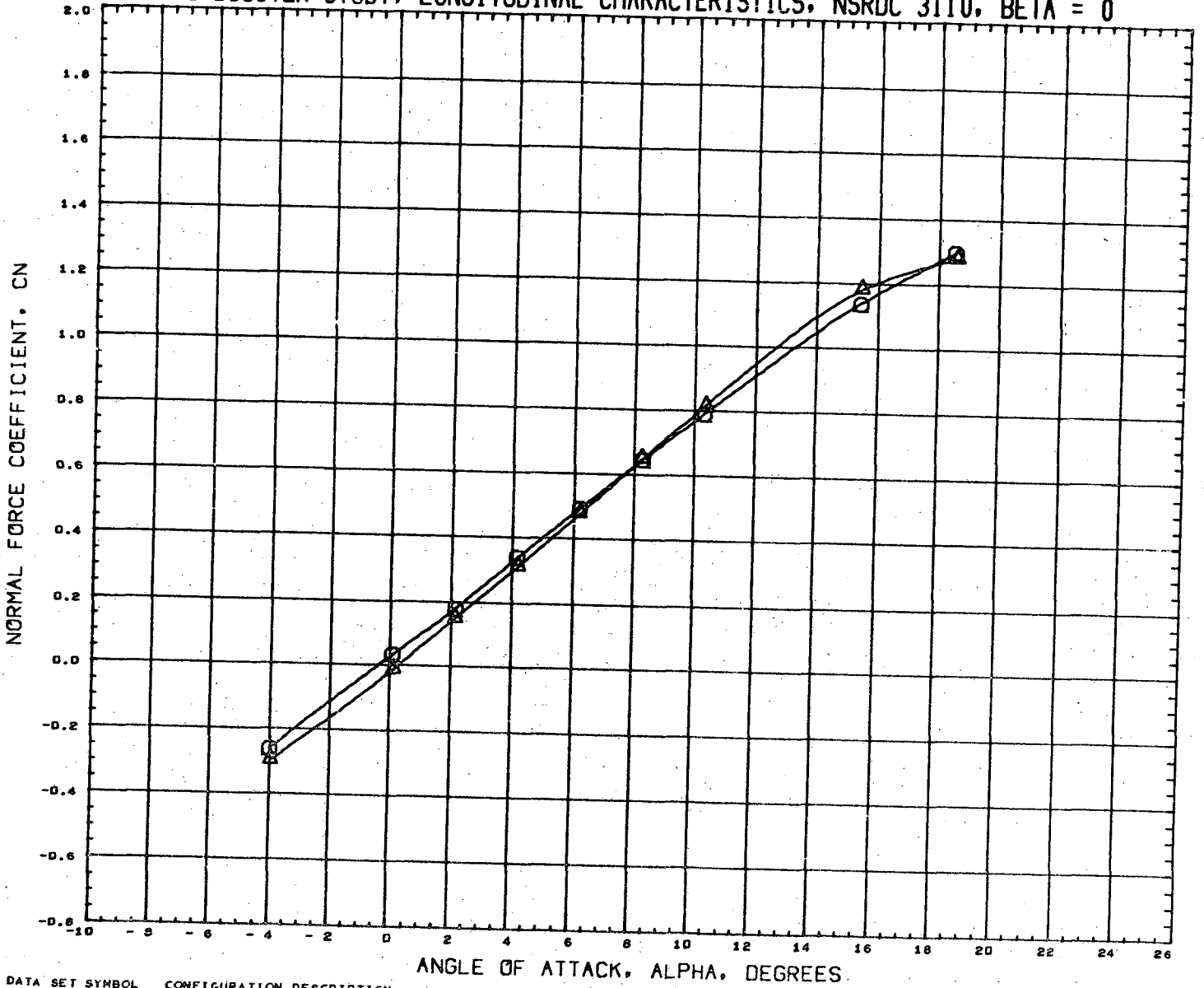
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2D74)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2D90)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1


INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



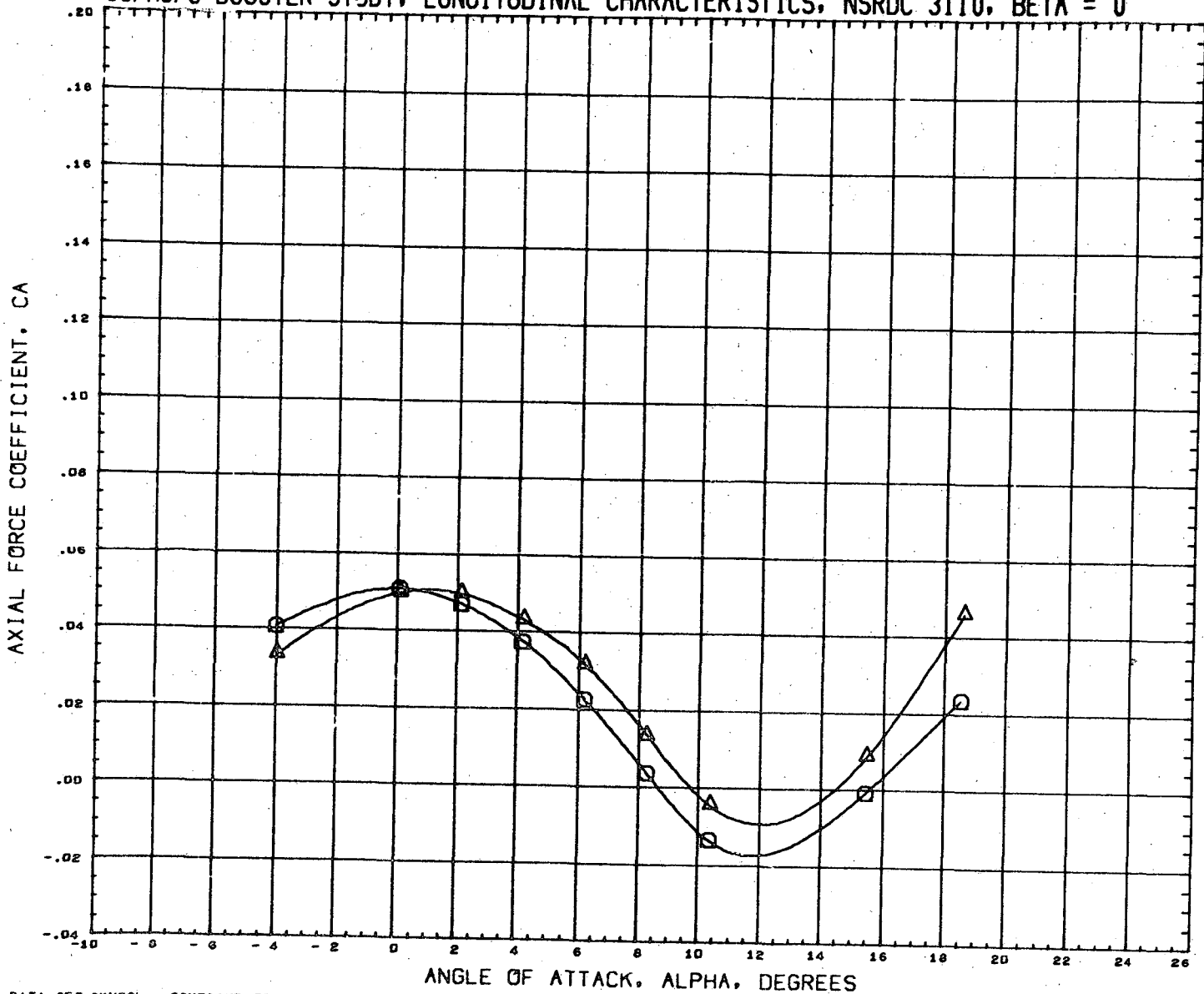
DATA SET SYMBOL (RN2129) (RN2145)  CONFIGURATION DESCRIPTION NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1 NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC 3.000 3.000 CNDPOS 1.000 1.000 INCIDW 0.000 0.000 WNGPOS 1.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ.FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCNT

MACH 0.360

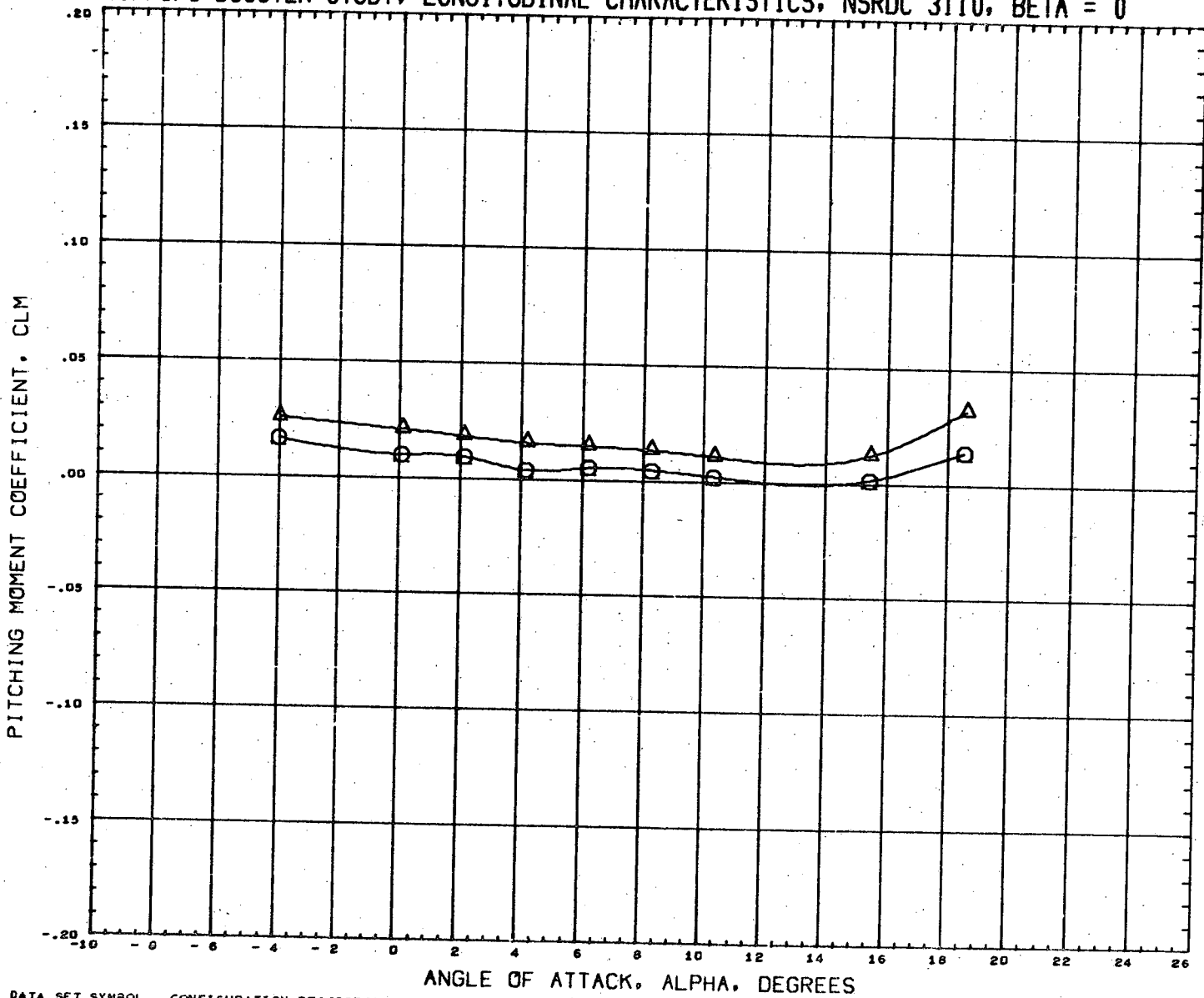
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2129)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2145)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

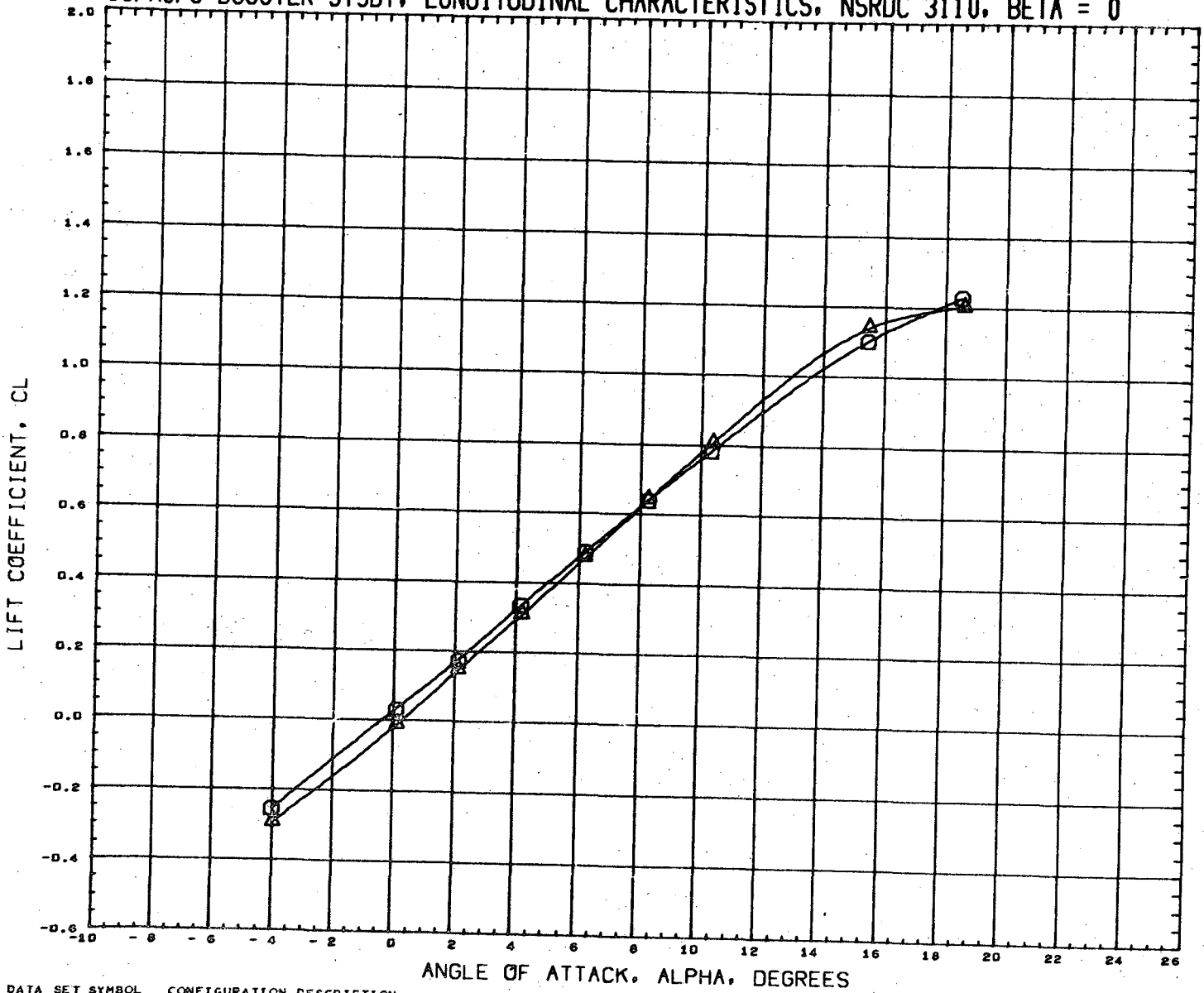
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGFOS	REFERENCE INFORMATION
(RN2129)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2145)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2129) □
(RN2145) △

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

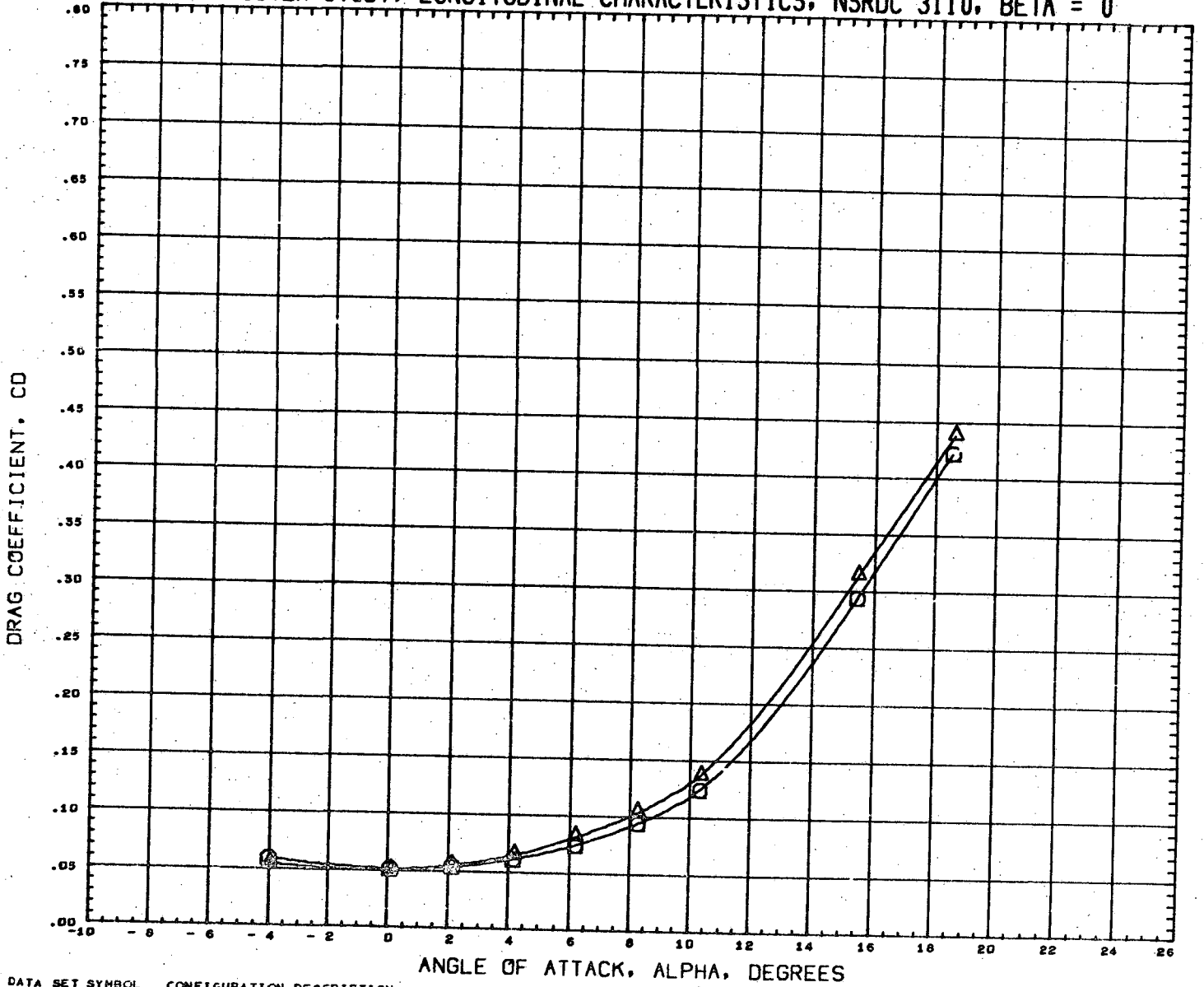
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH: 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2129)
(RN2145)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

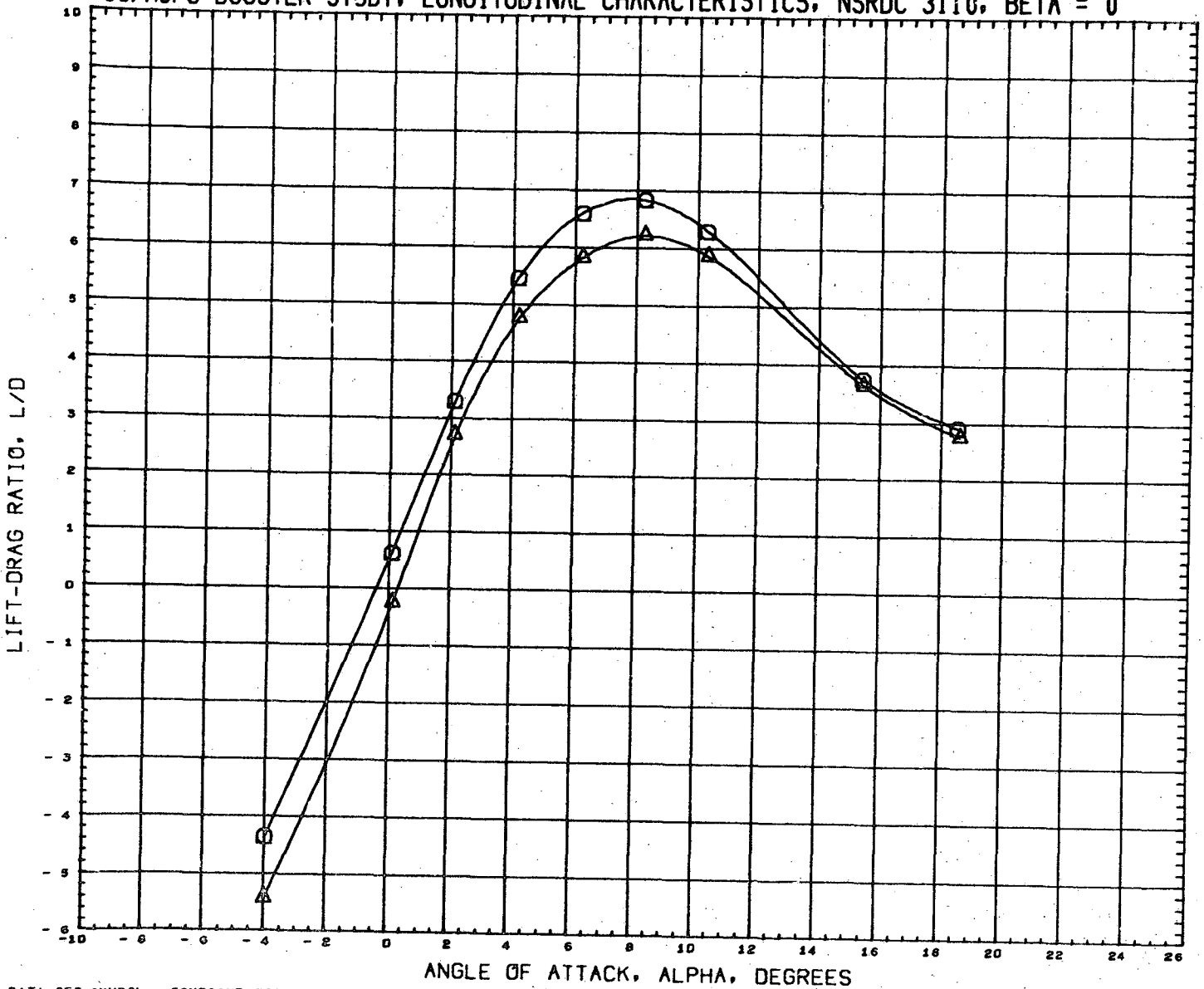
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

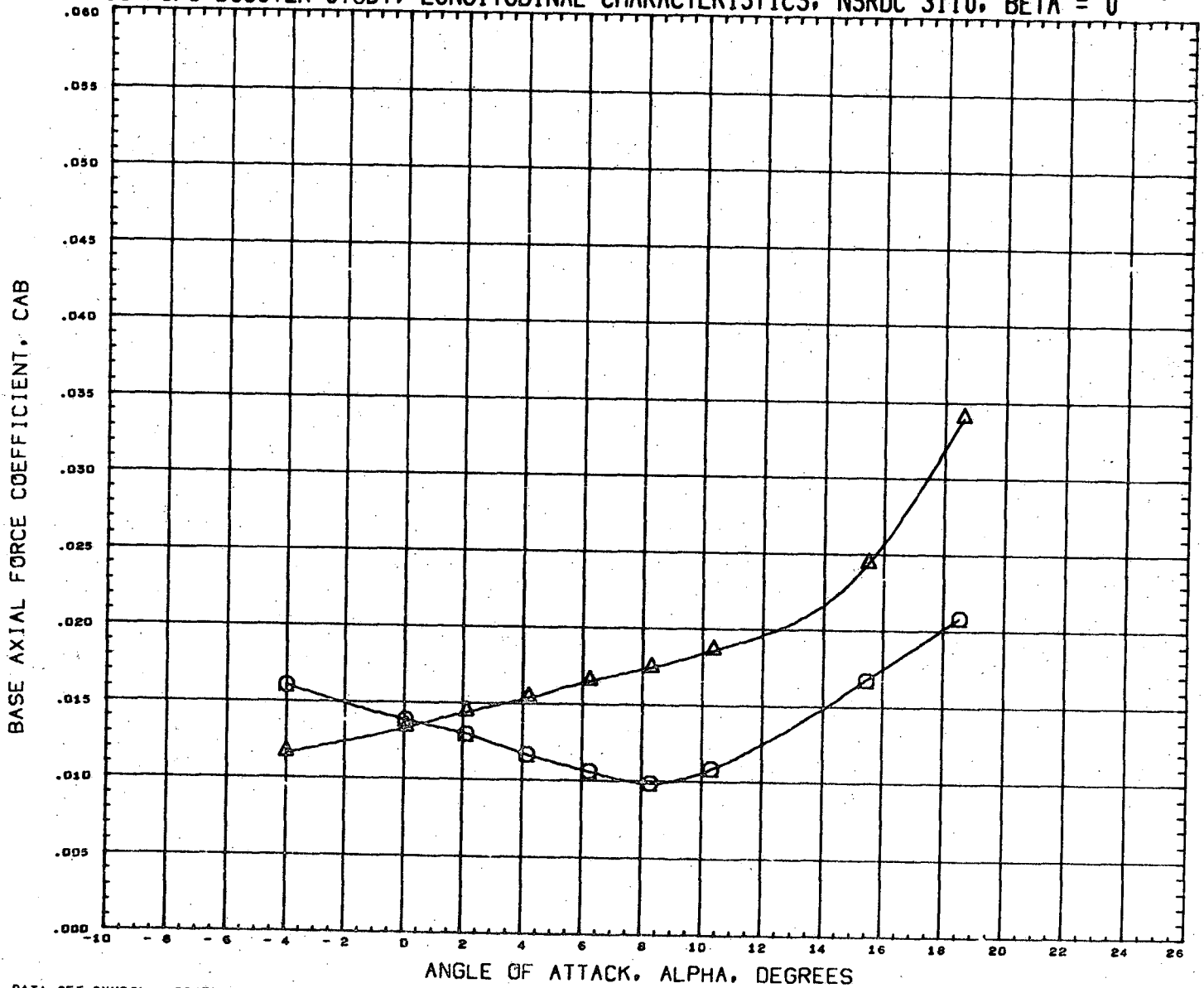
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2129)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2145)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.360

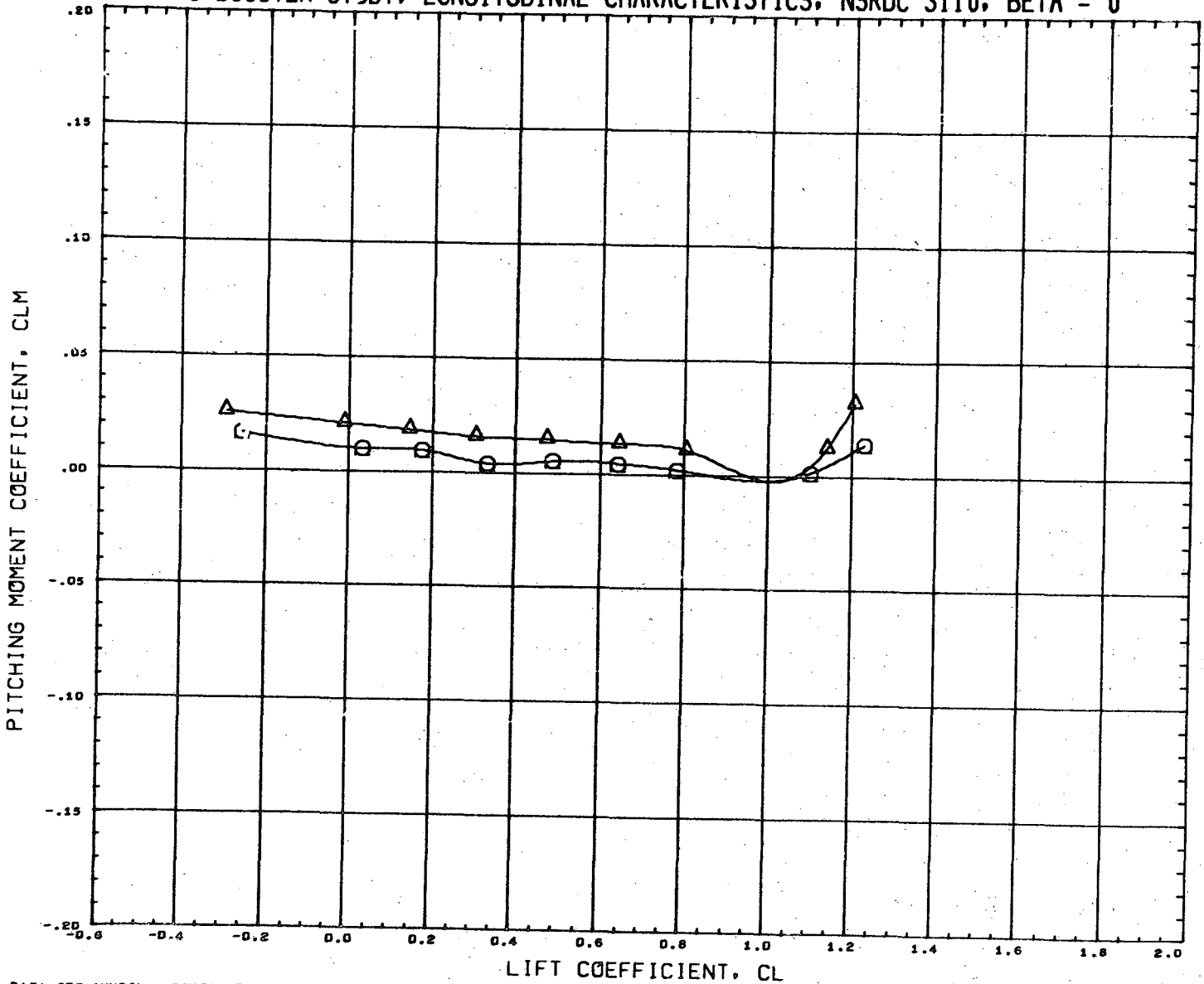
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2129)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2145)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

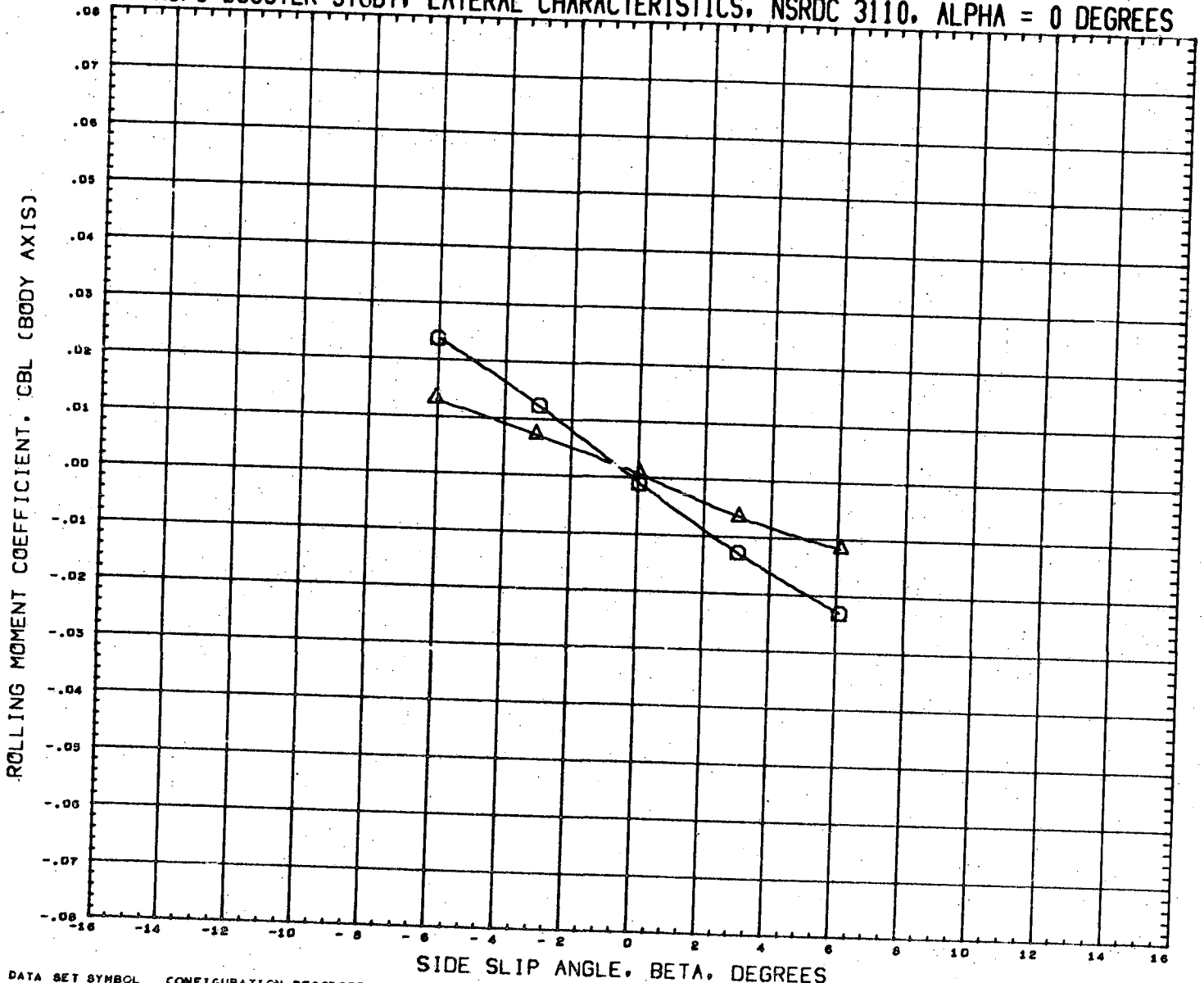
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2129)	NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2145)	NSRDC-3110, NSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.360

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2130)
(RN2146)



CONFIGURATION DESCRIPTION

NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

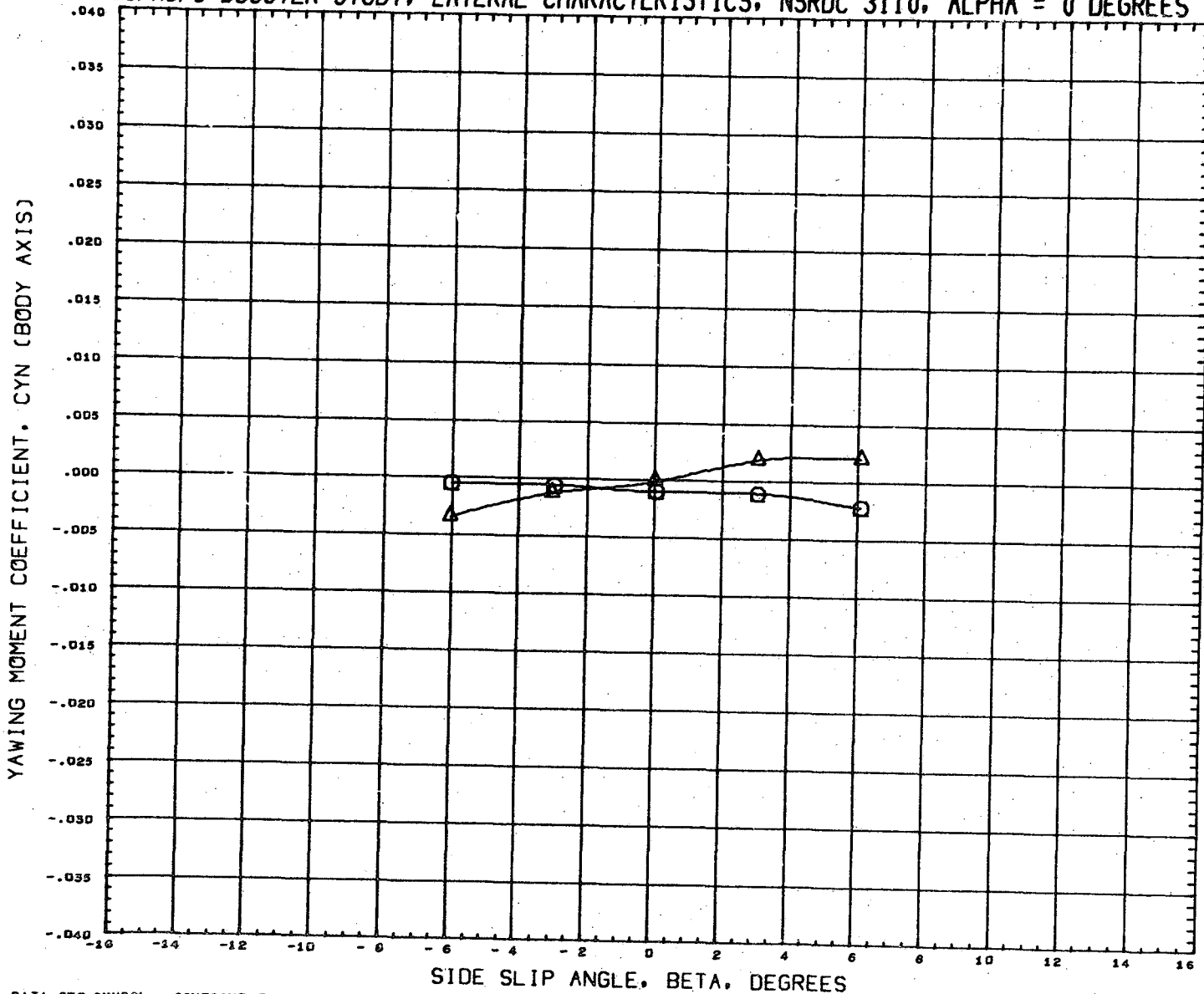
REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH

0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2130) □
(RN2146) △

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

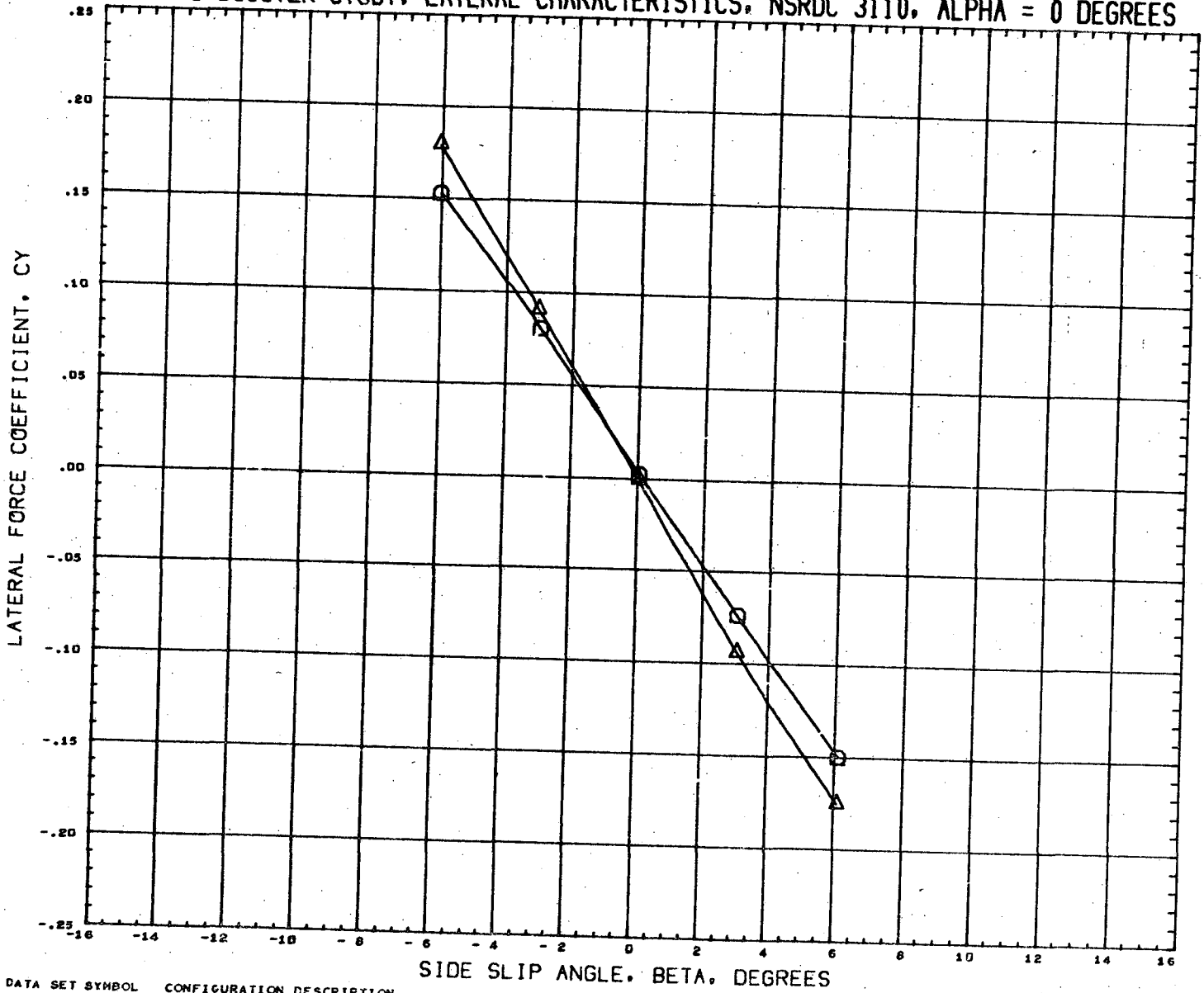
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2130)
(RN2146)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

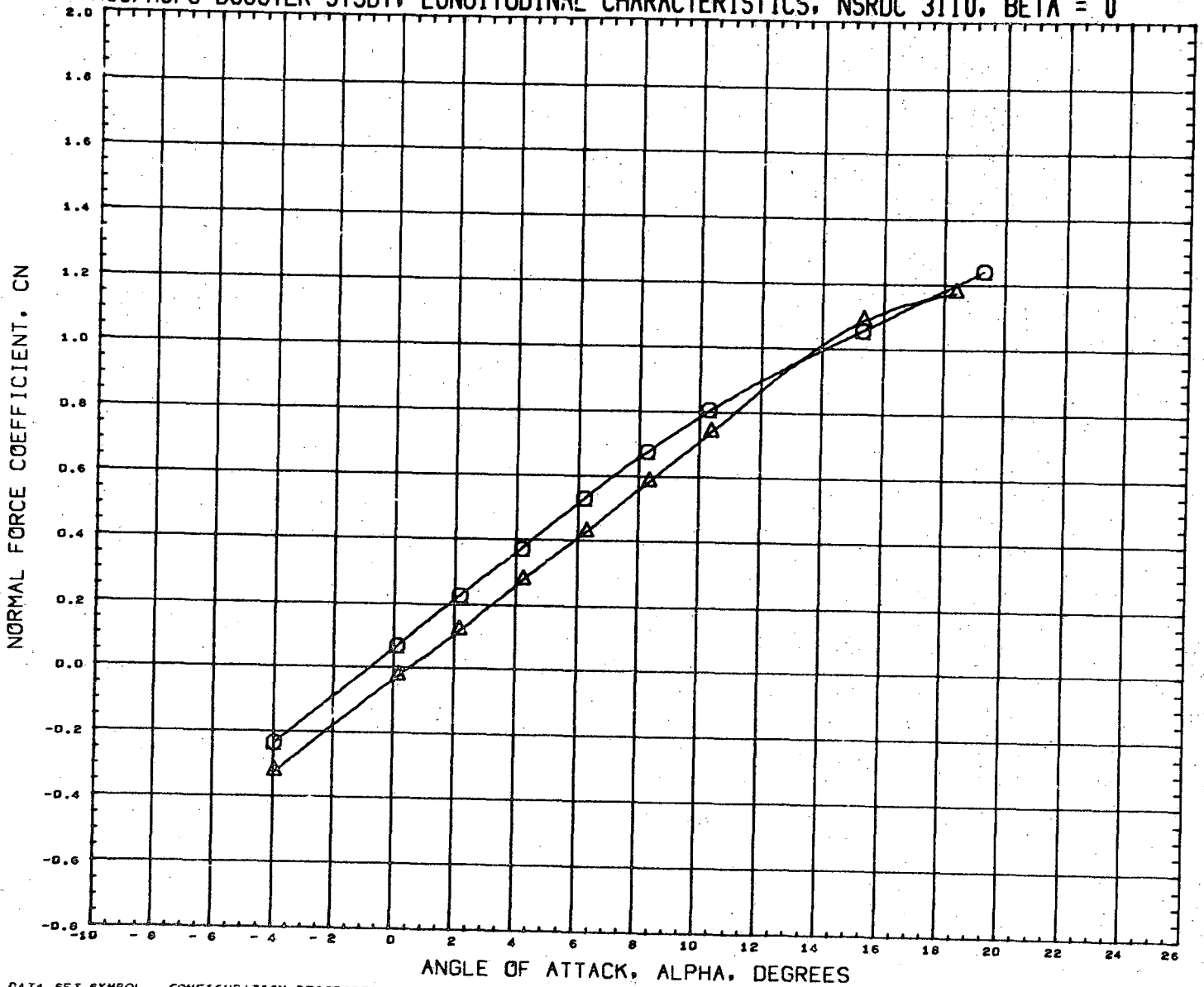
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	0.000	1.000
3.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.360

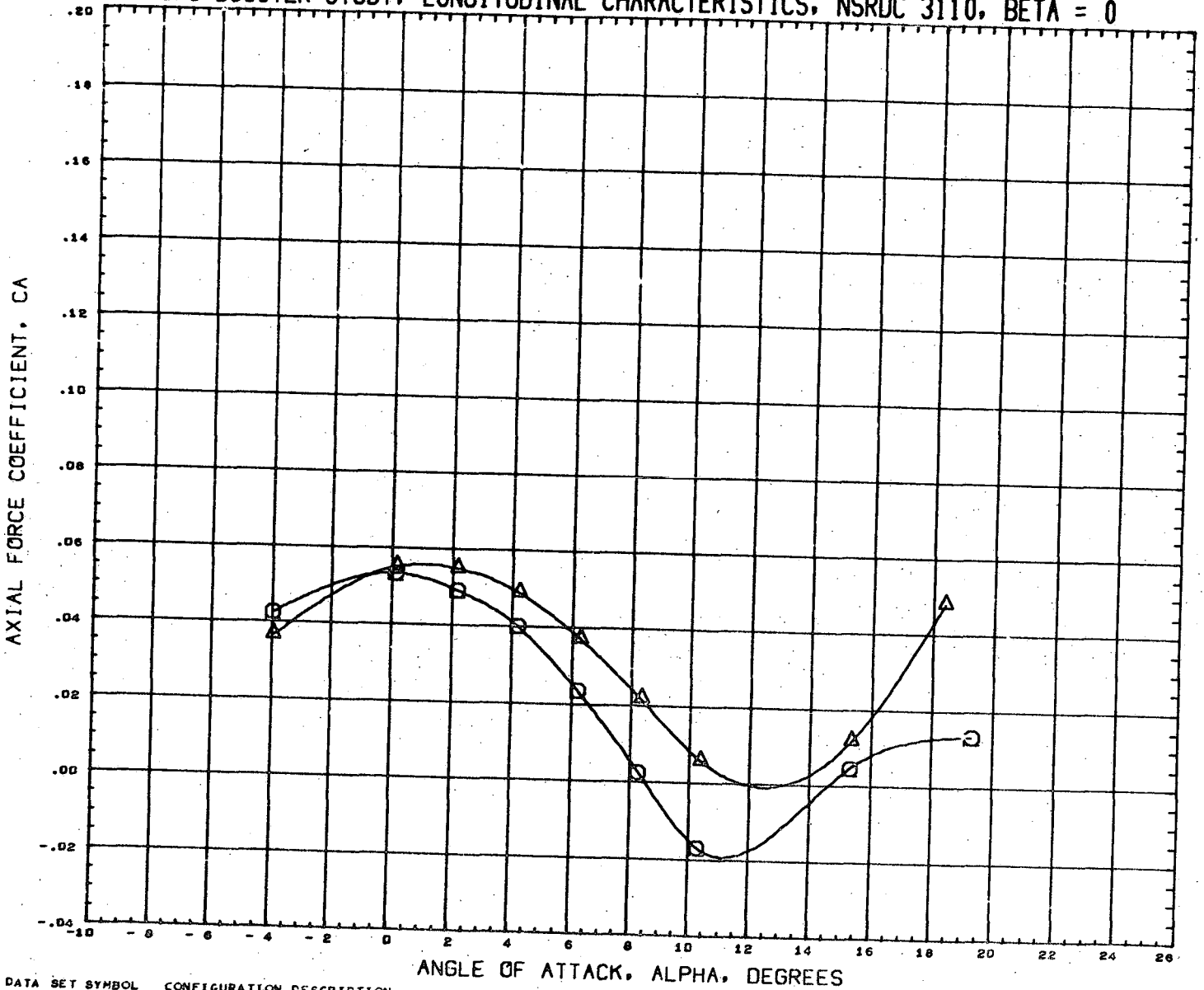
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2137)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2153)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2137)
(RN2153)



CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

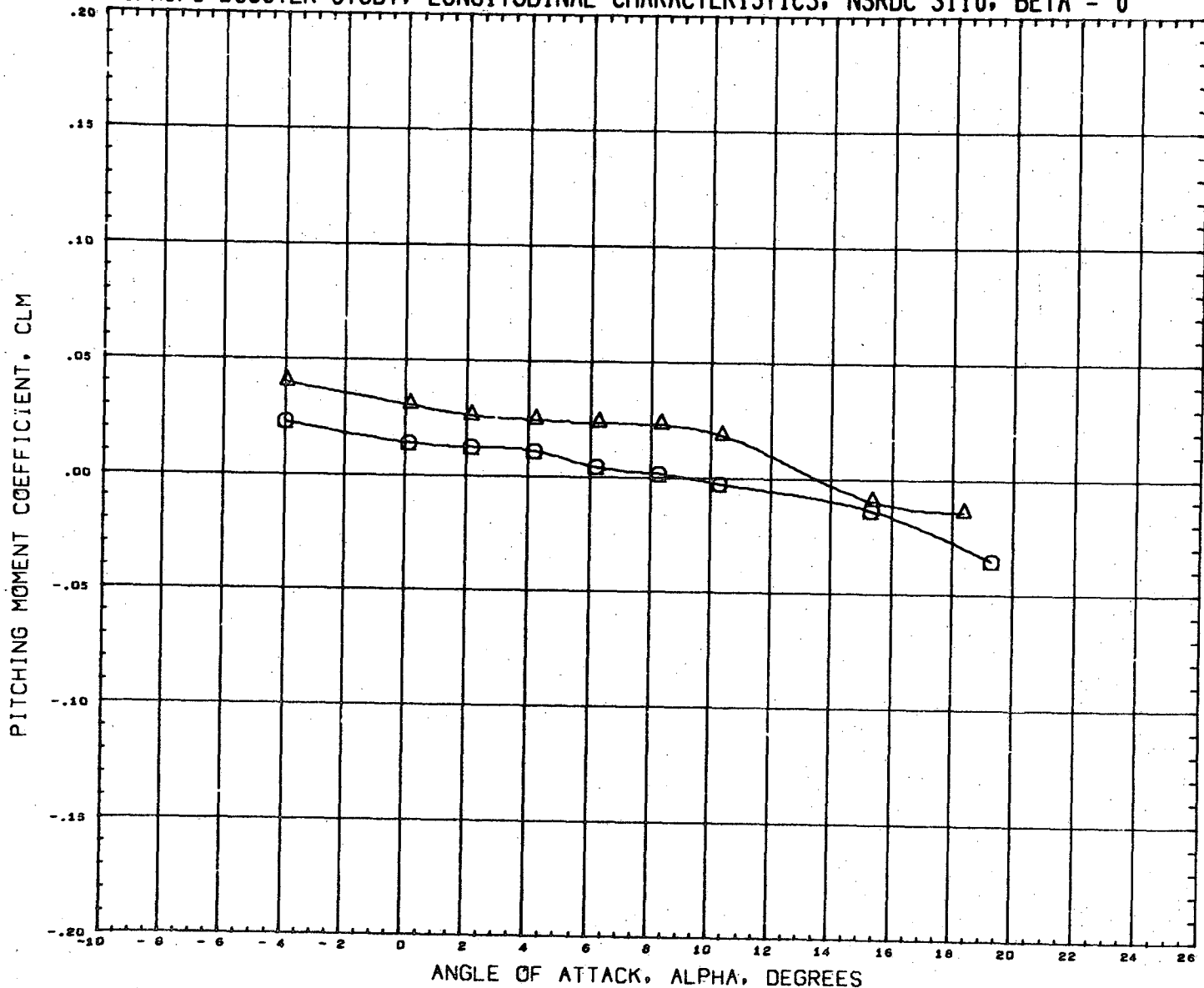
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

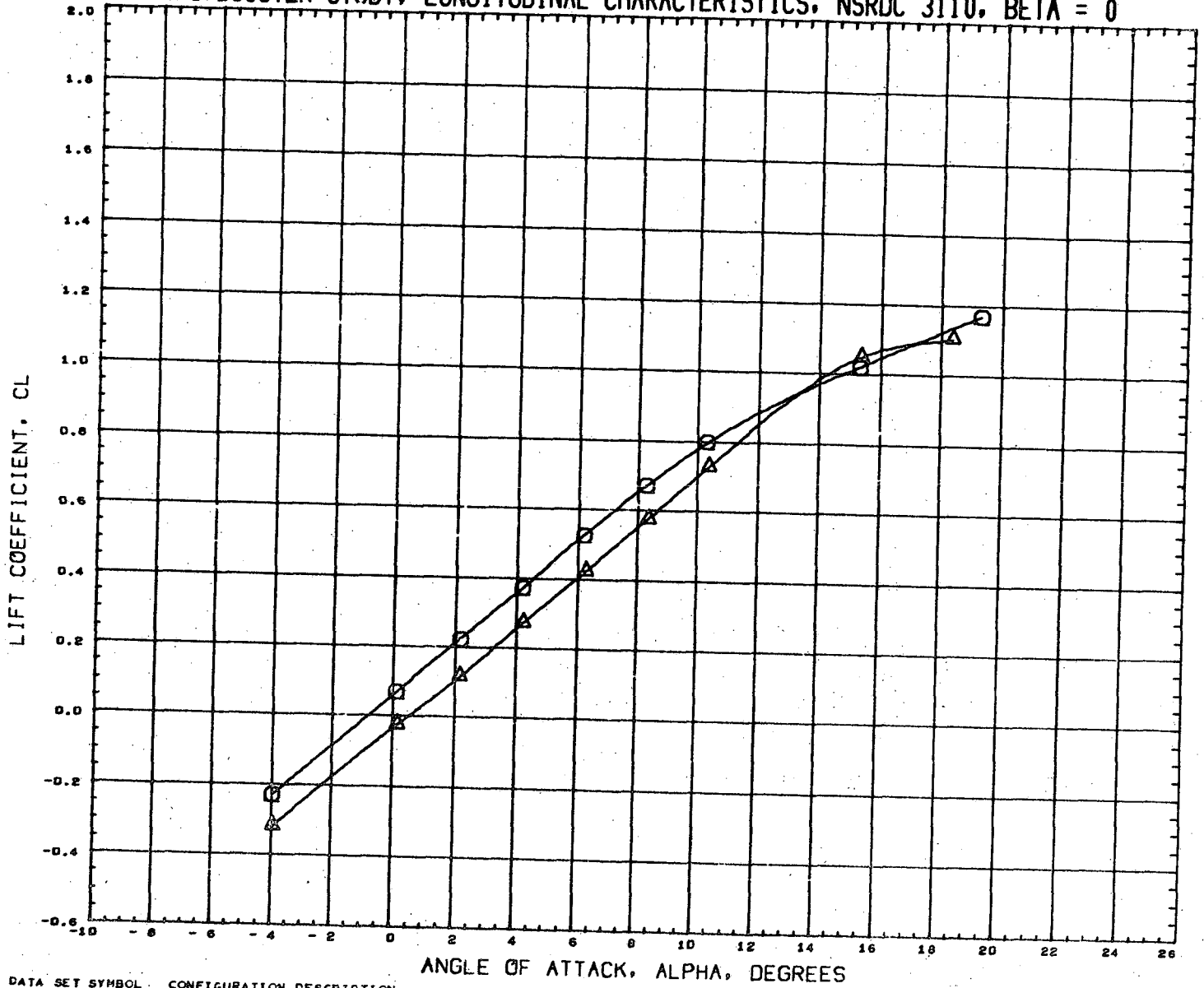
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, $\beta = 0$



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2137)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2155)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

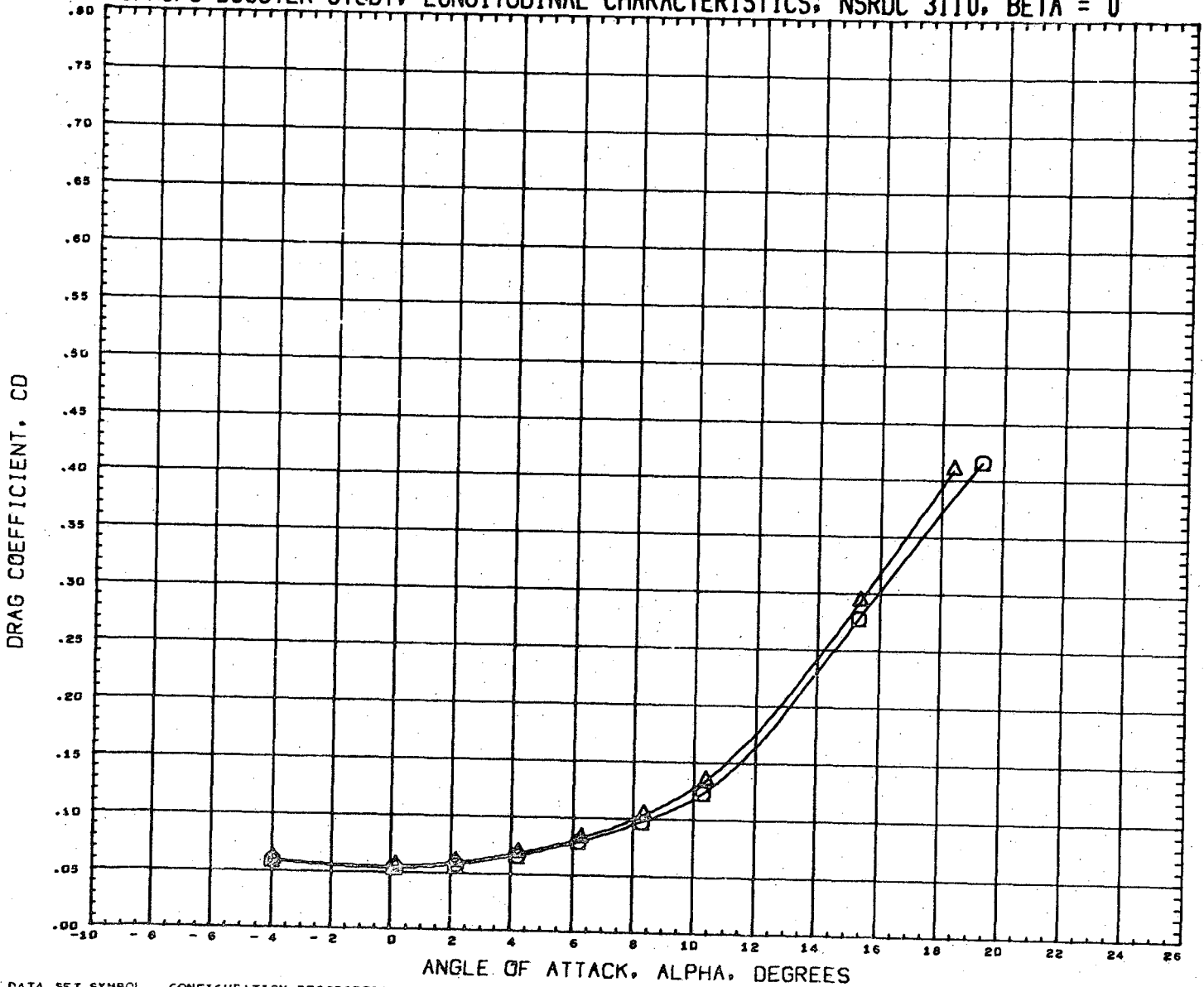
LMSC/MSFC BOOSTER STUDY; LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2137)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2153)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2137) \circ
 (RN2153) \triangle

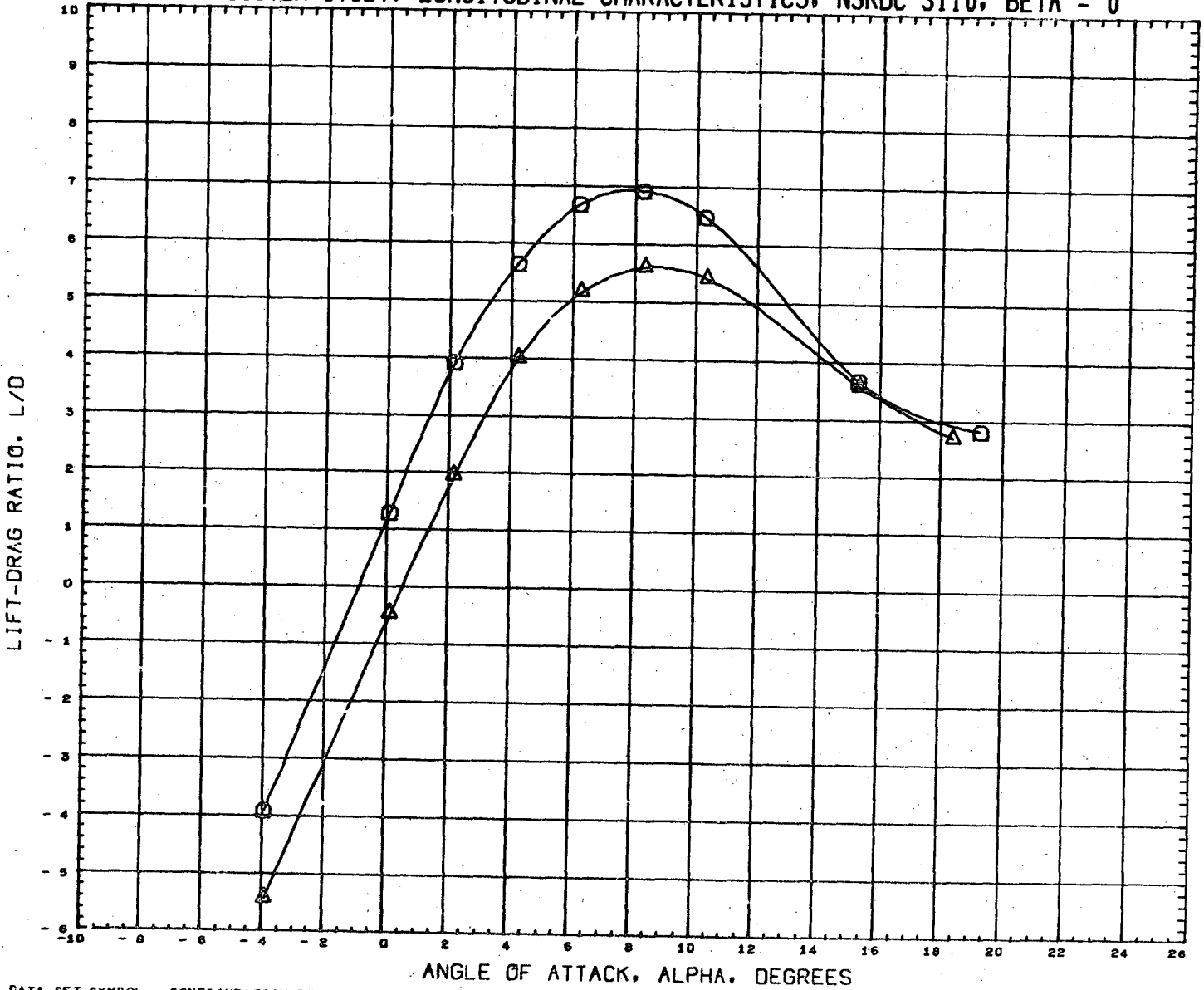
CONFIGURATION DESCRIPTION
 NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V2D1
 NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZNRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

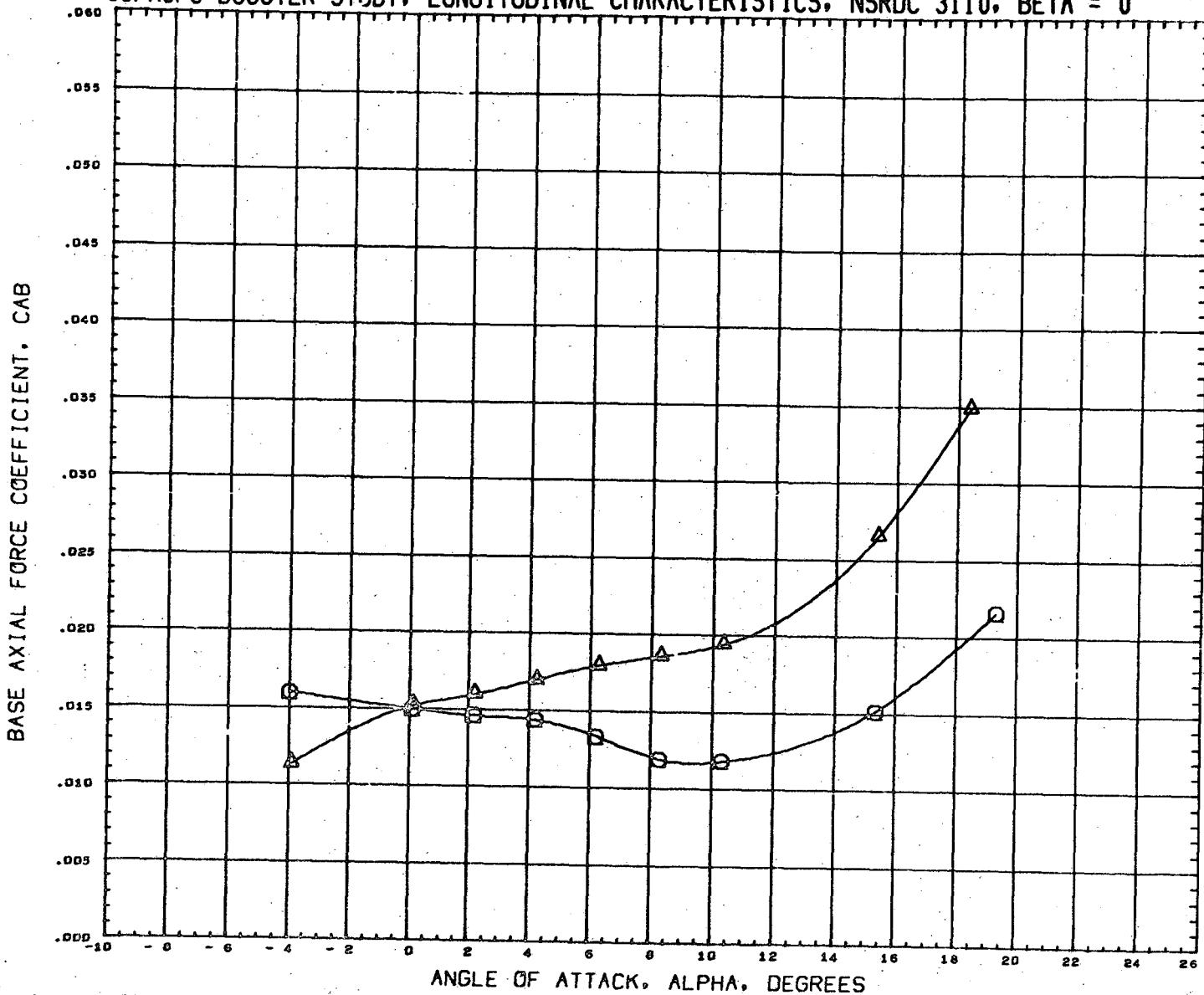
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2137)	MSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2153)	MSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

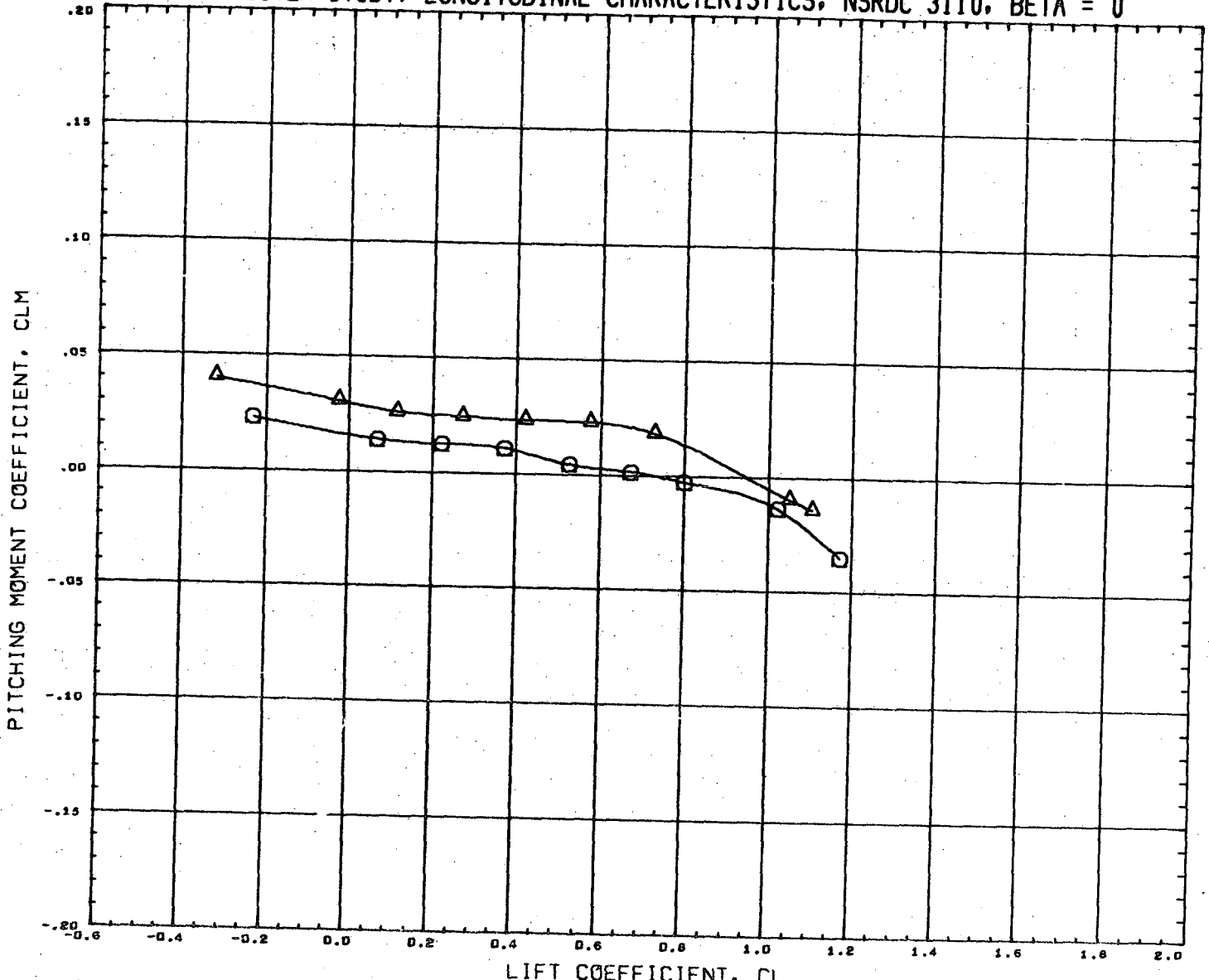
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2137)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2153)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2157)
(RN2153)



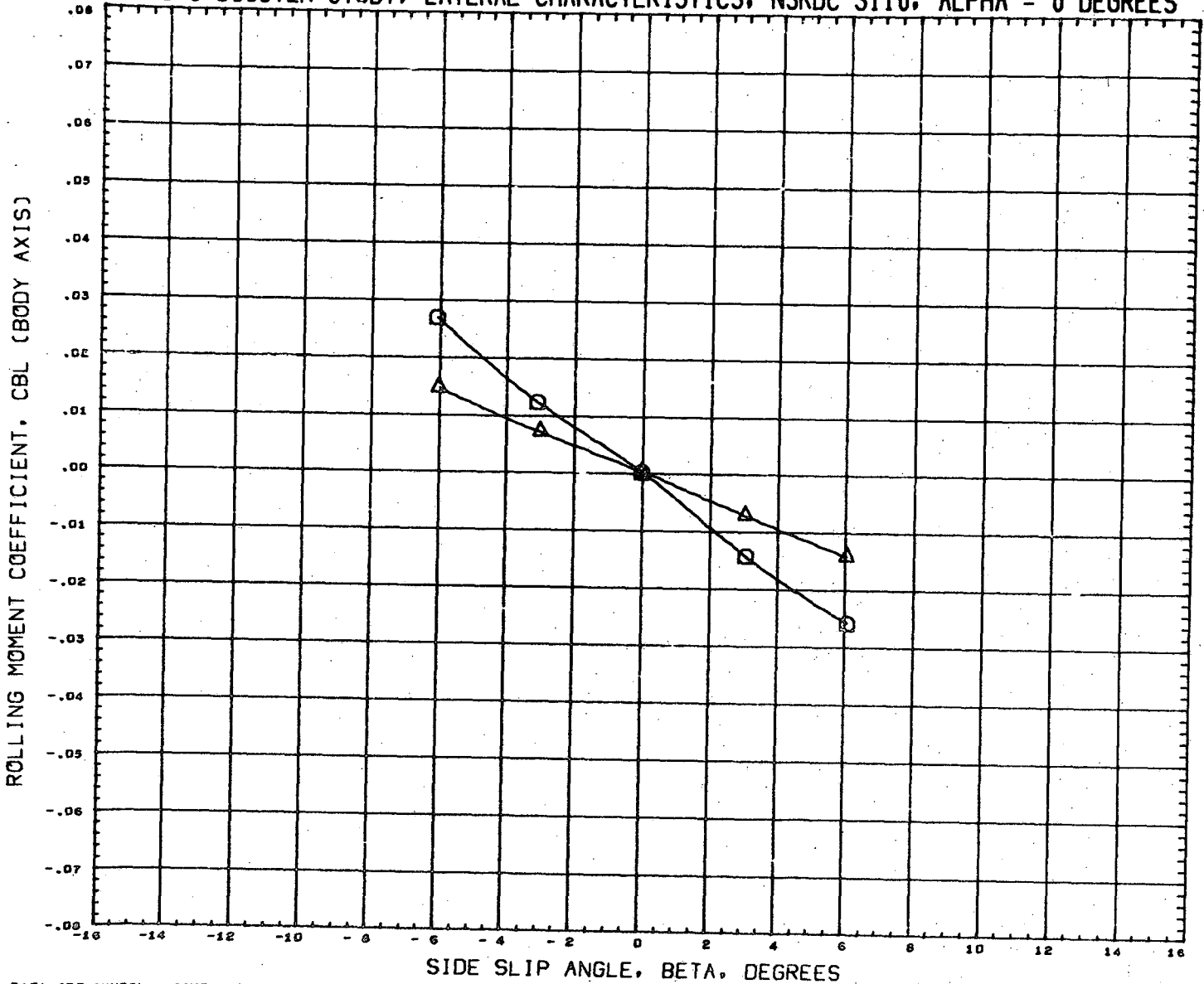
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

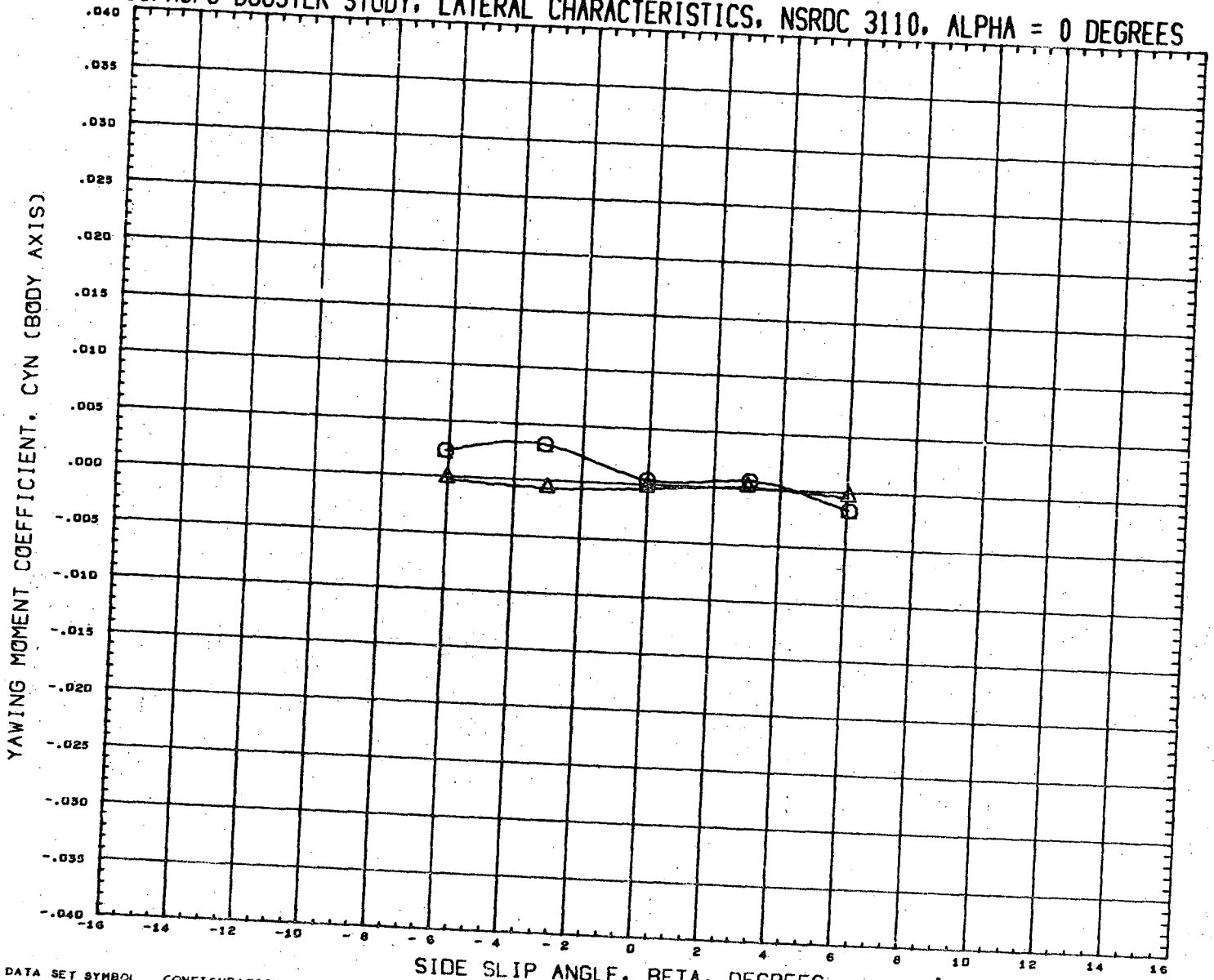
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2139) \square	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2154) \triangle	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2138)
(RN2154)

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

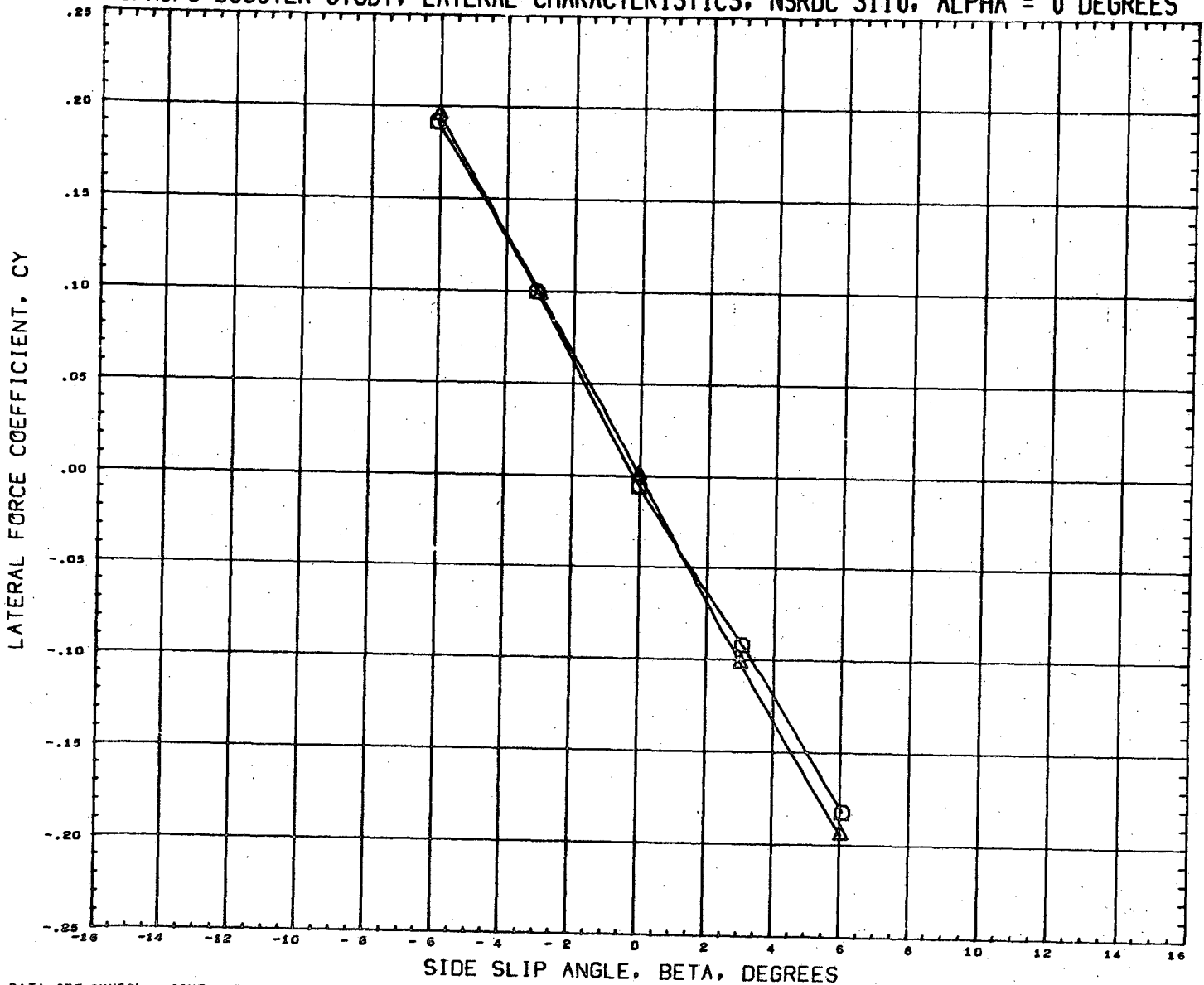
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	0.000	1.000
3.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ.FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

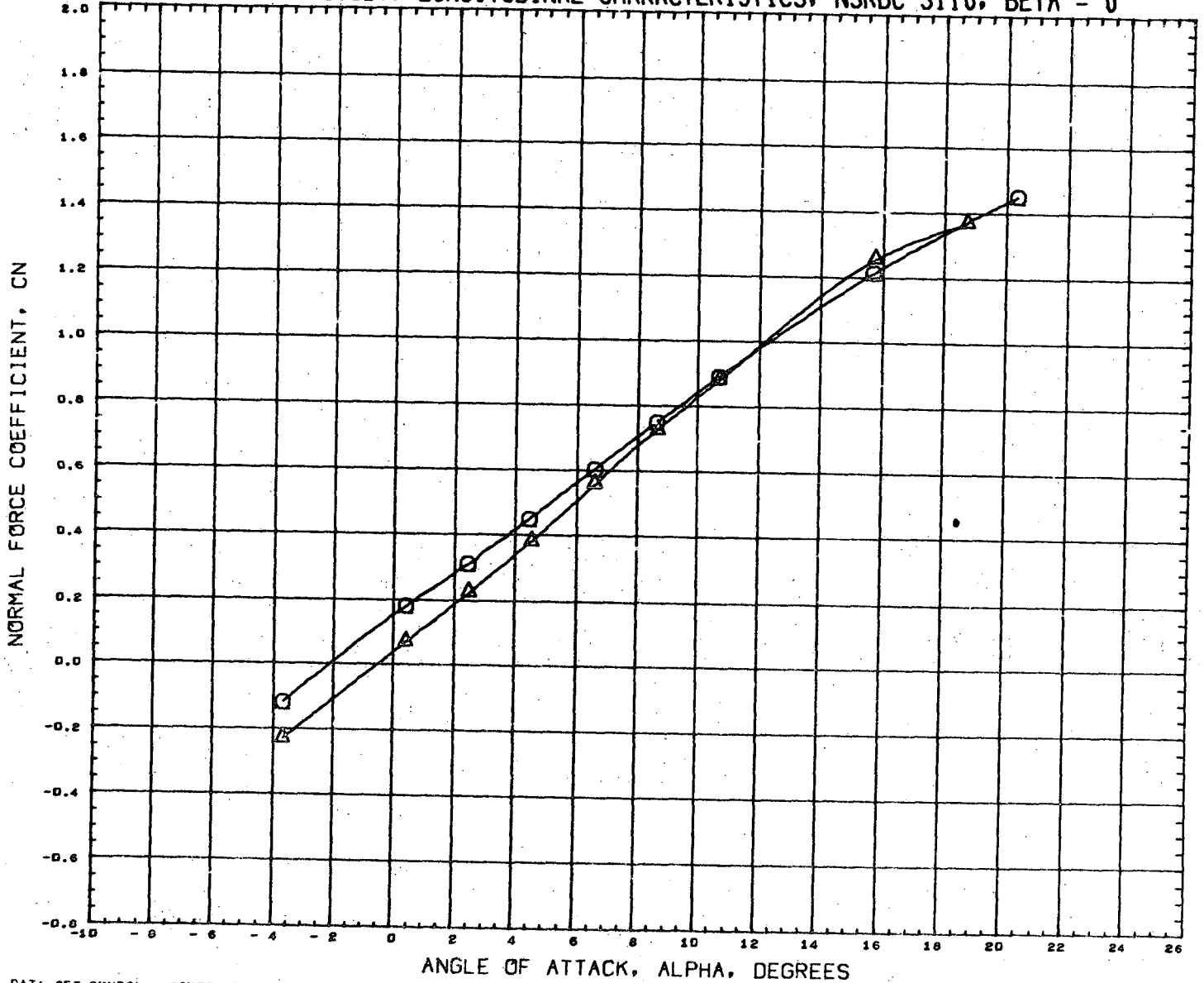
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2138) □	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2154) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.580

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2069) \circ
(RN2085) \triangle

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

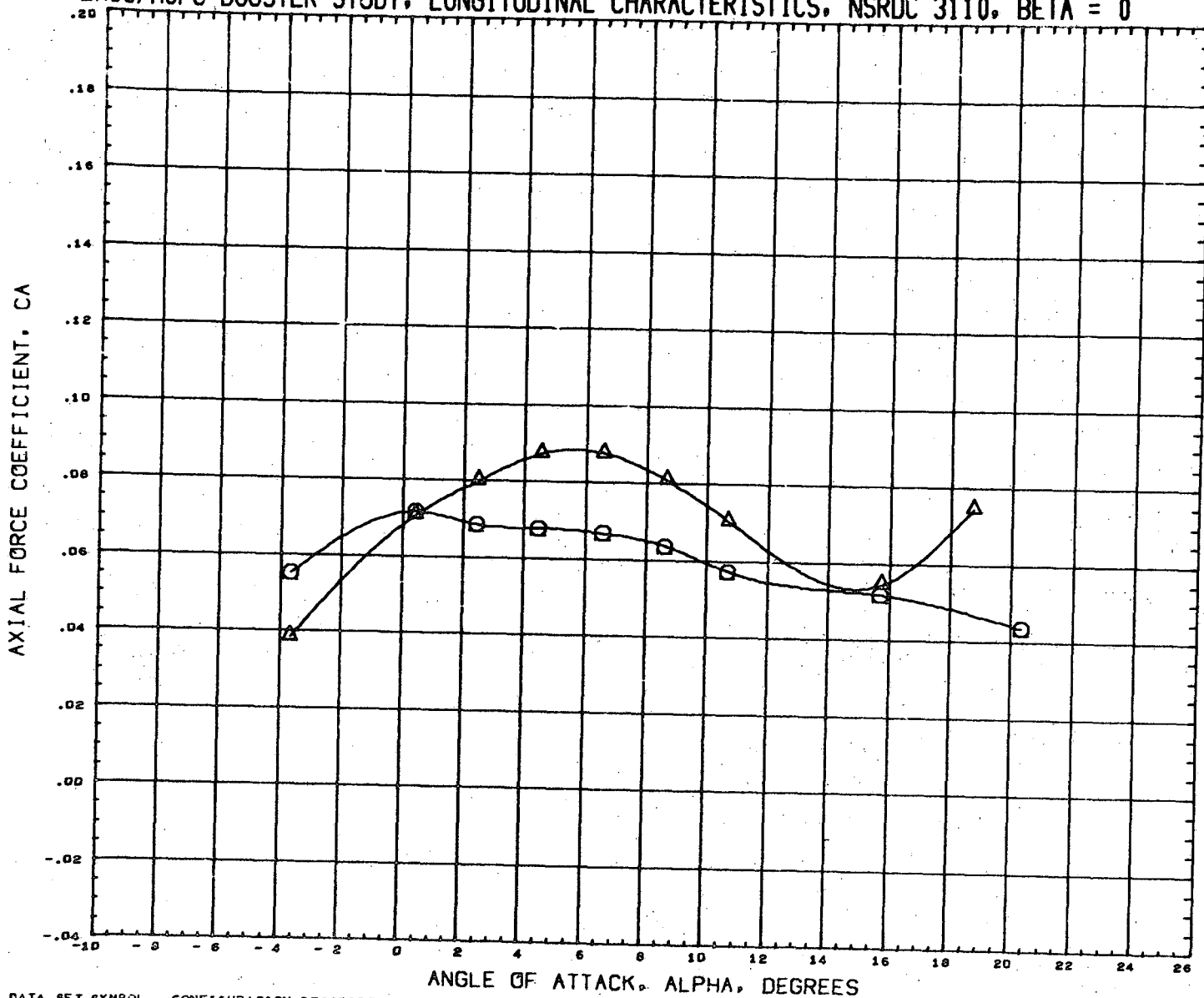
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2069) □
(RN2065) △

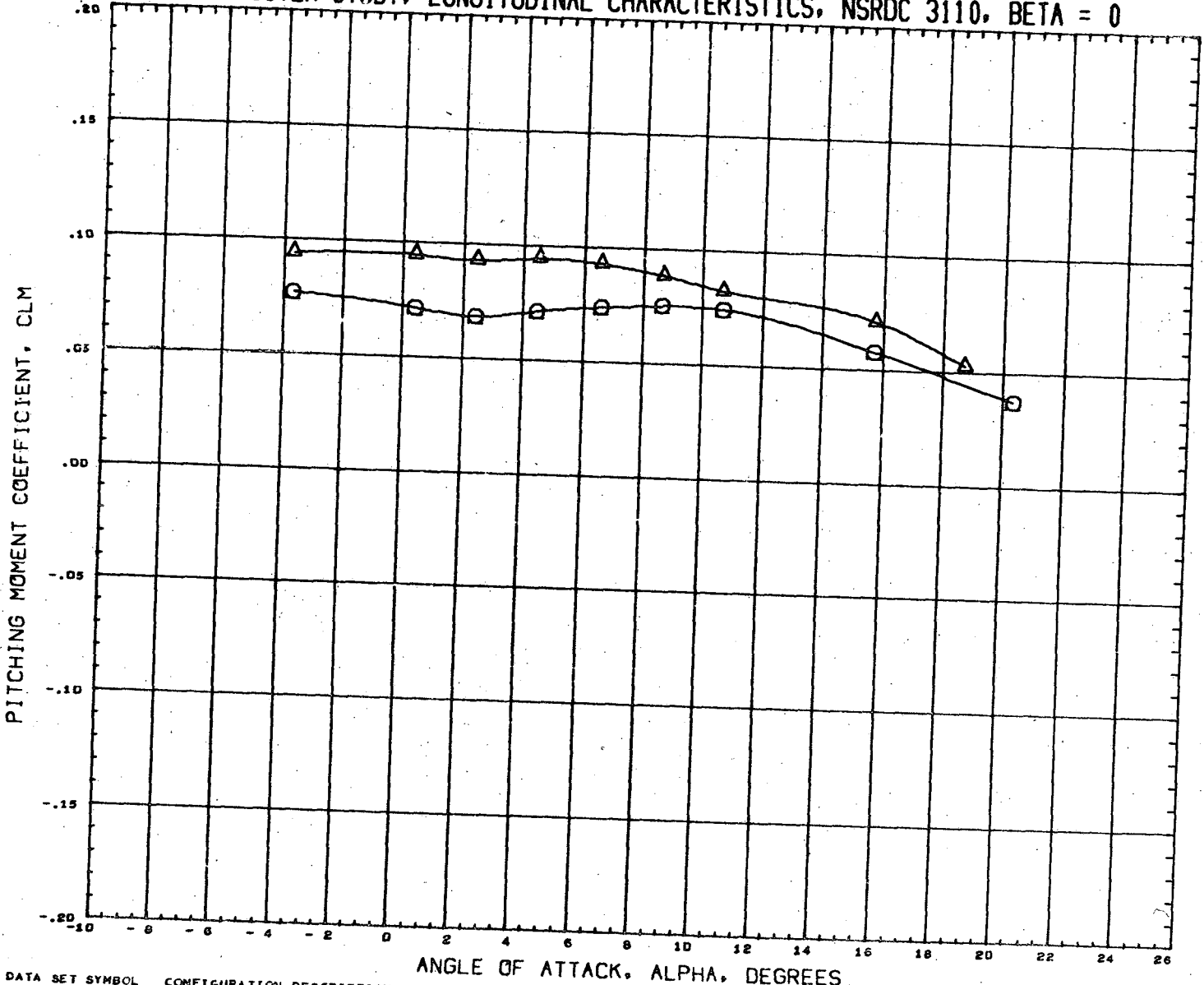
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC CNDPOS INCIDW WNGPOS
15.000 1.500 0.000 1.000
15.000 1.000 0.000 2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.381

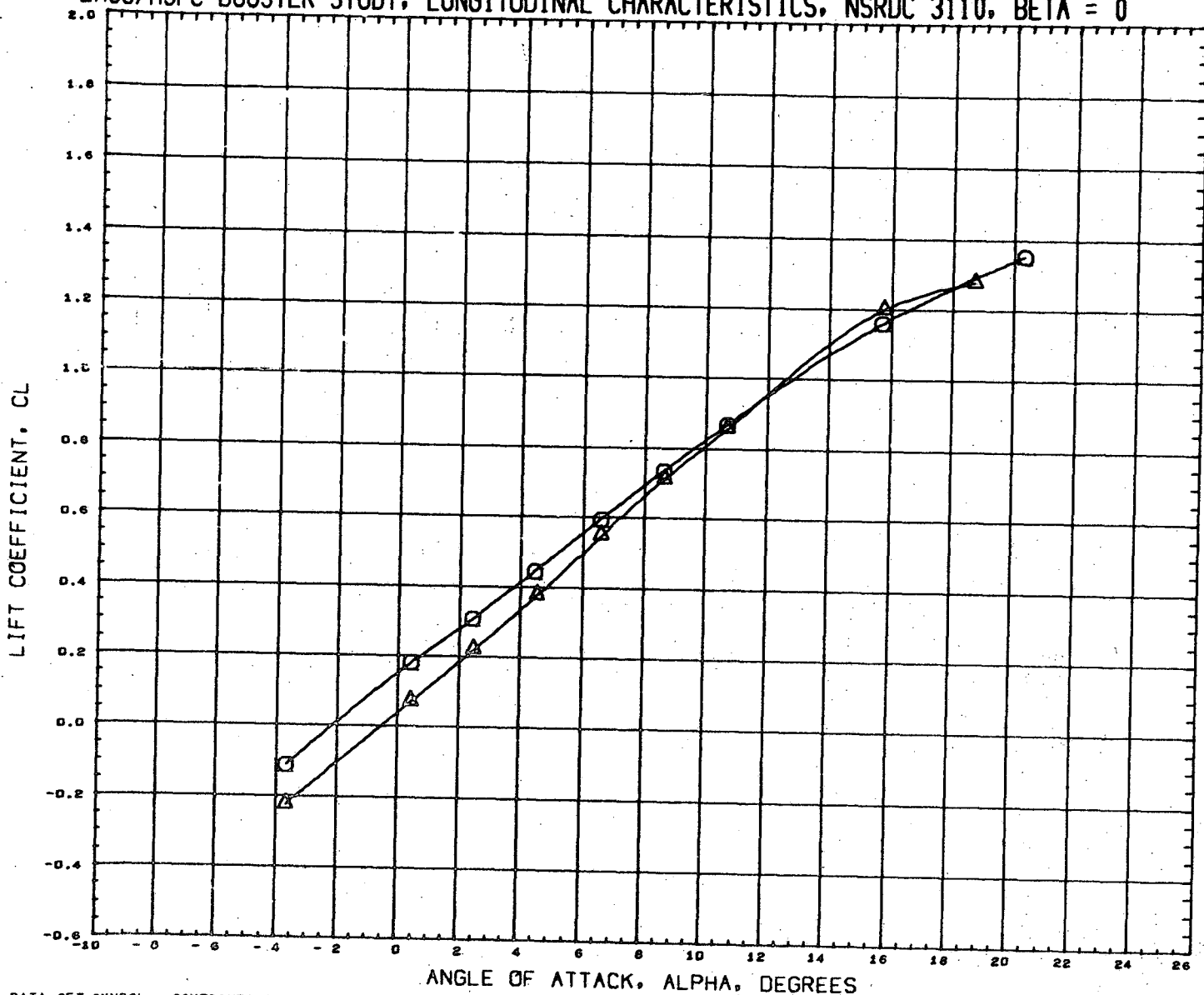
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2069)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2085)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

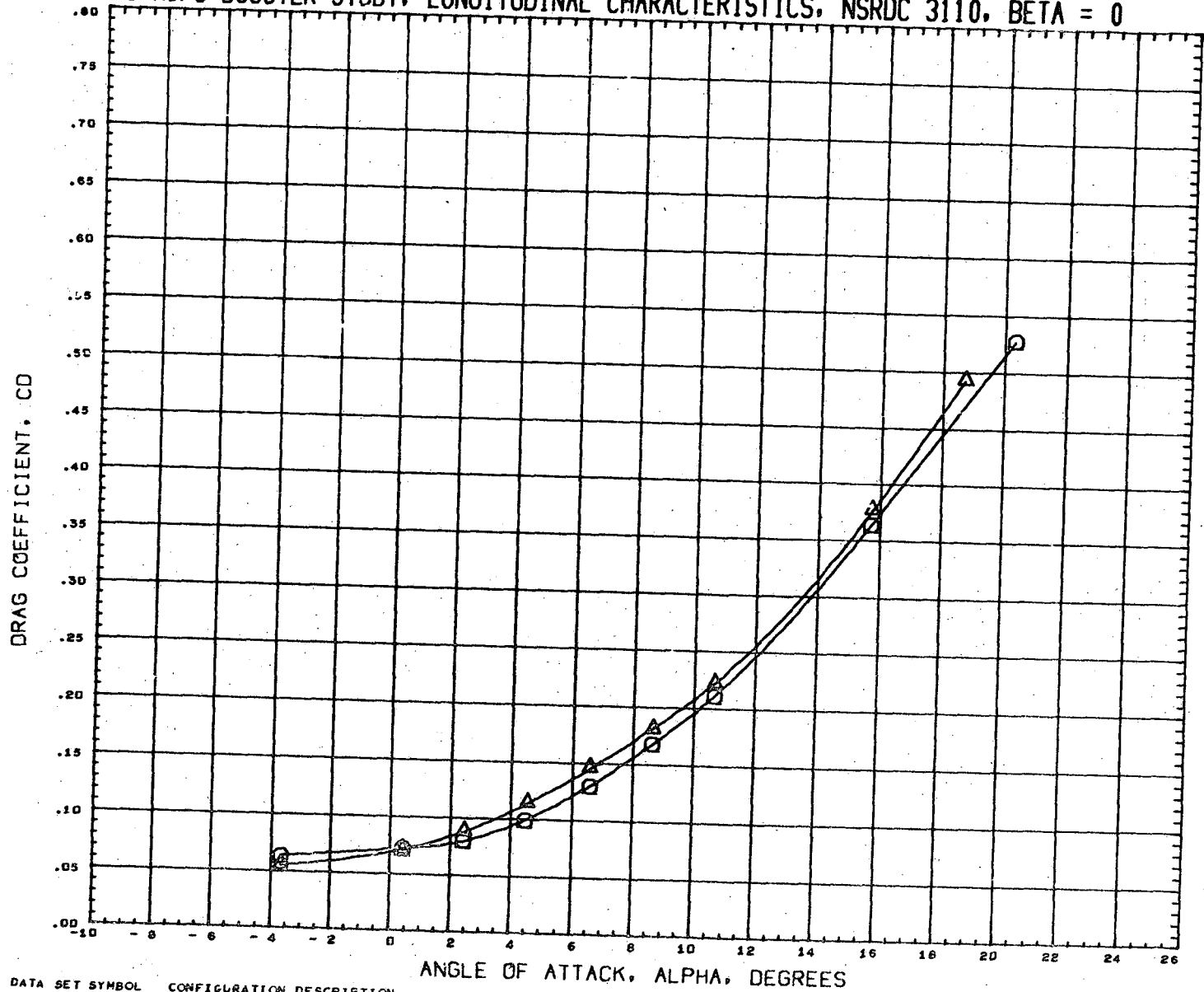
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2069)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2085)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

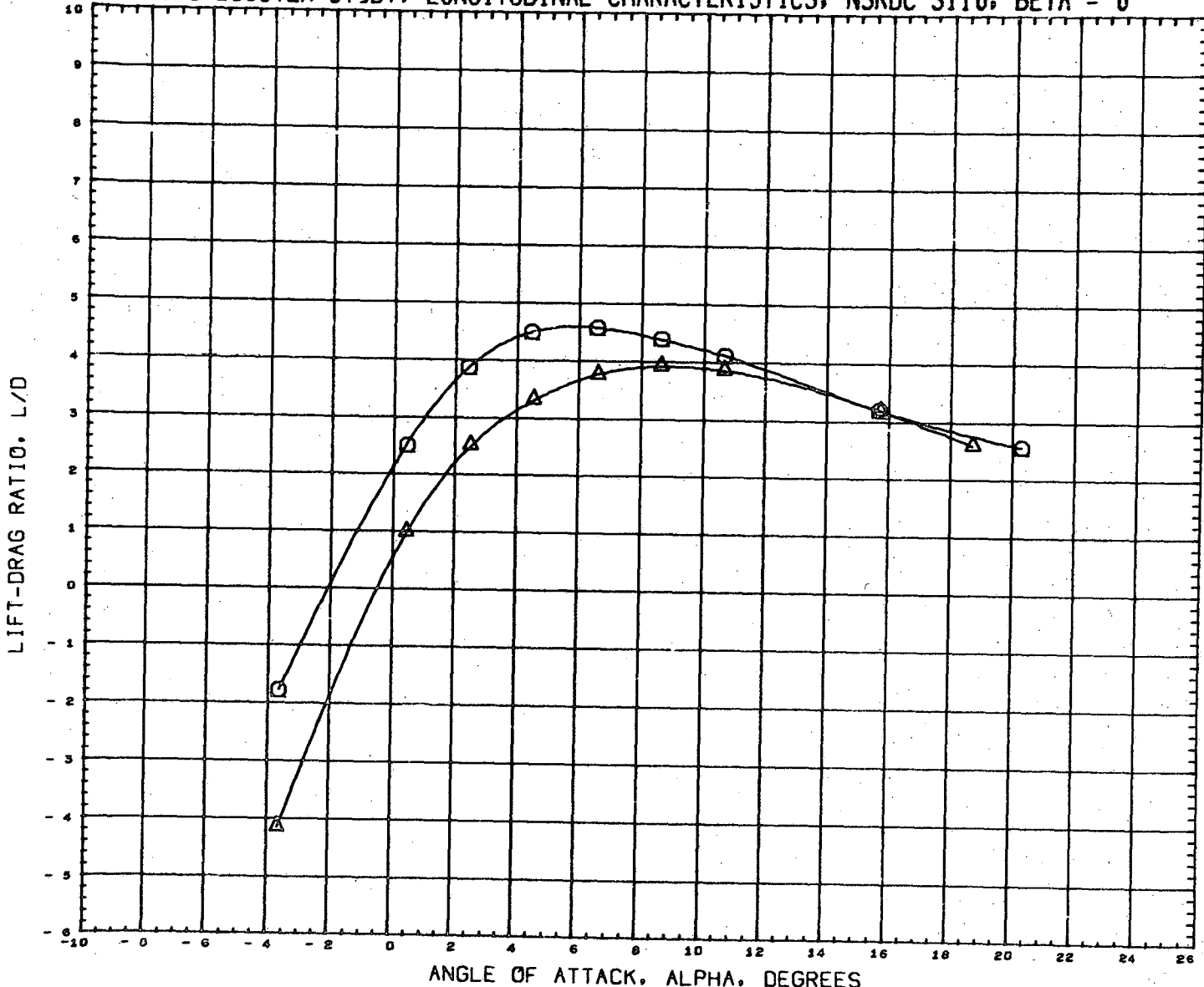
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2069)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2085)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2069)
(RN2085)

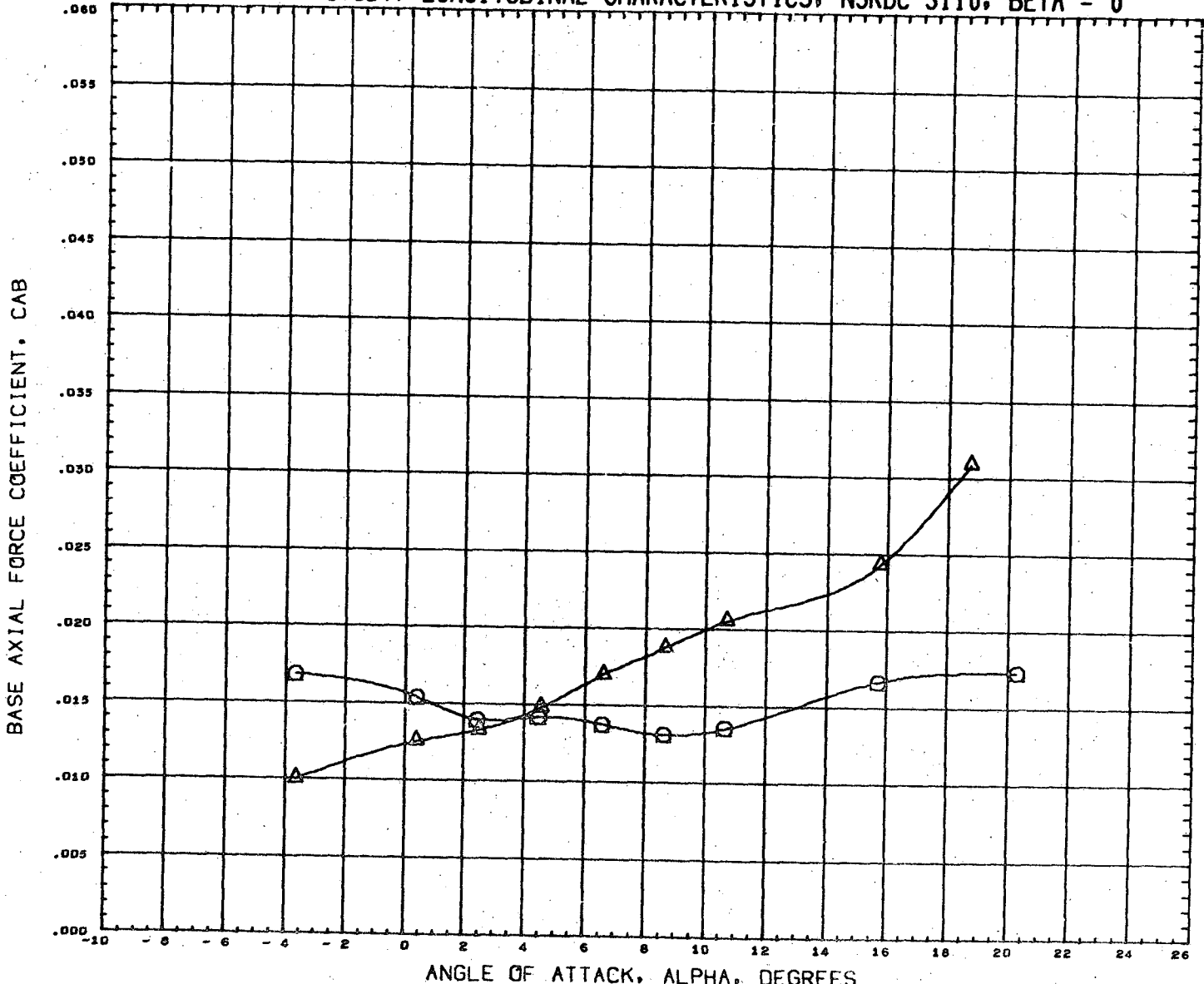
CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

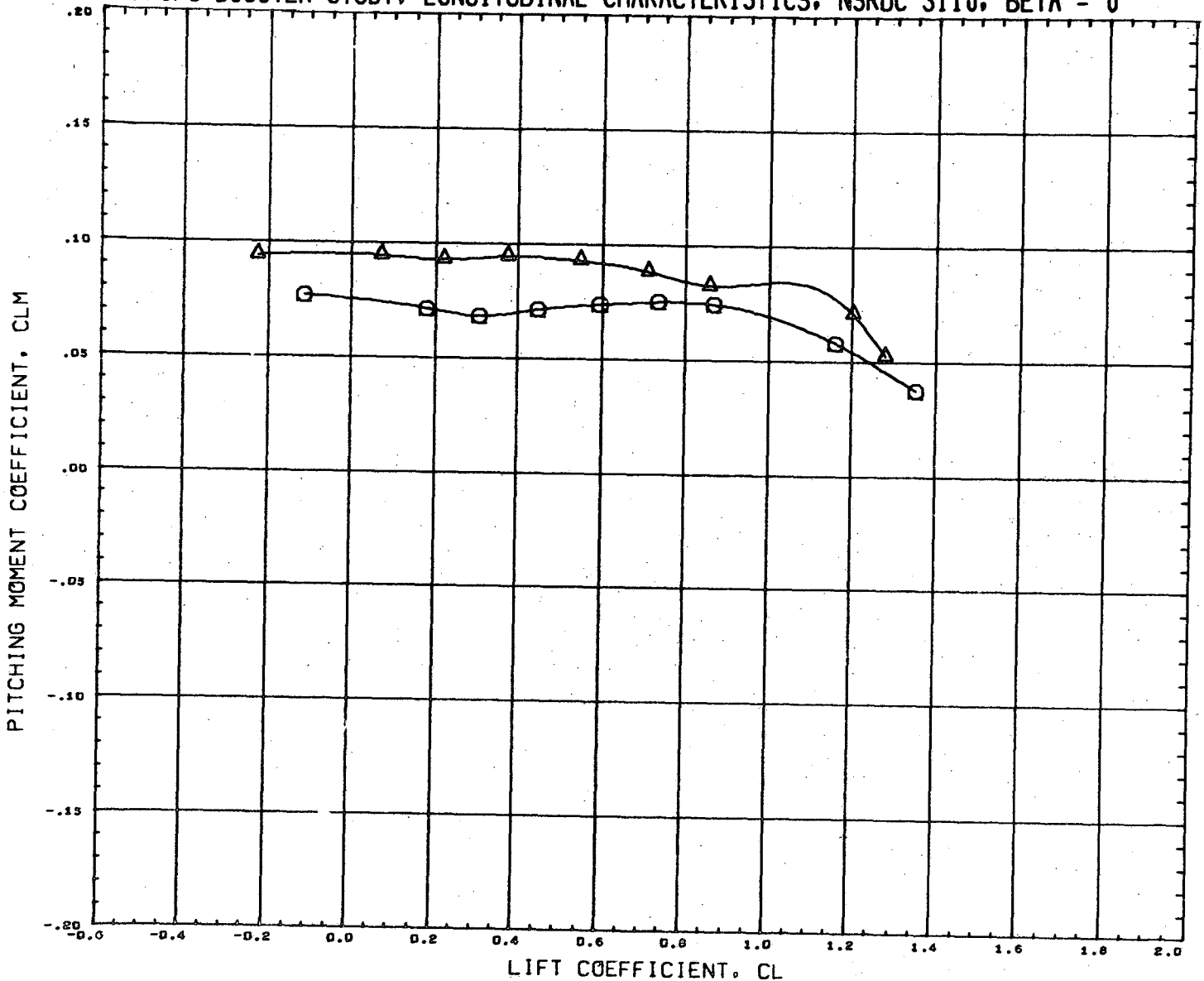
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2069)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF	1.3550 SQ. FT.
(RN2085)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

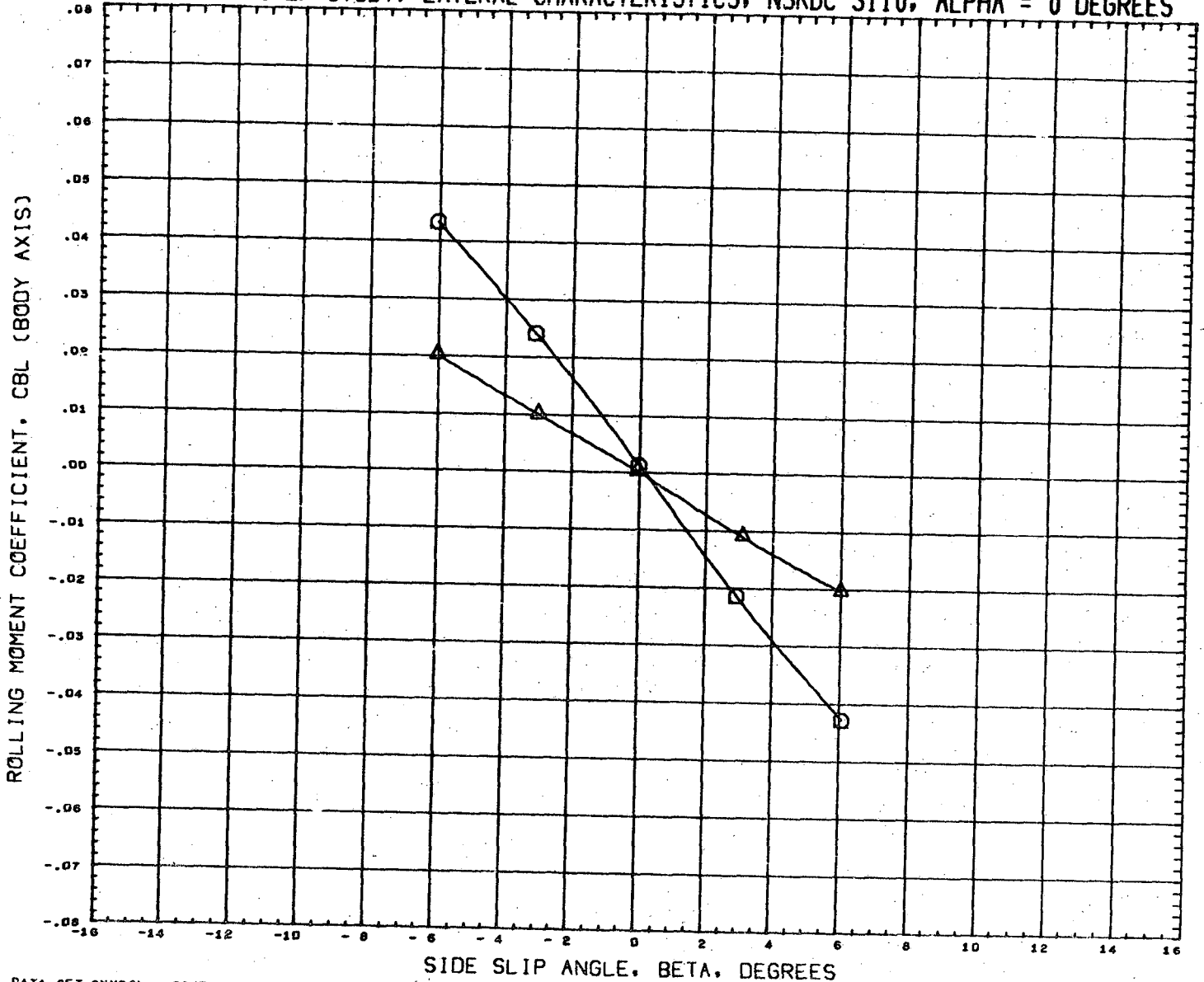
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2069)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2085)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2230 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

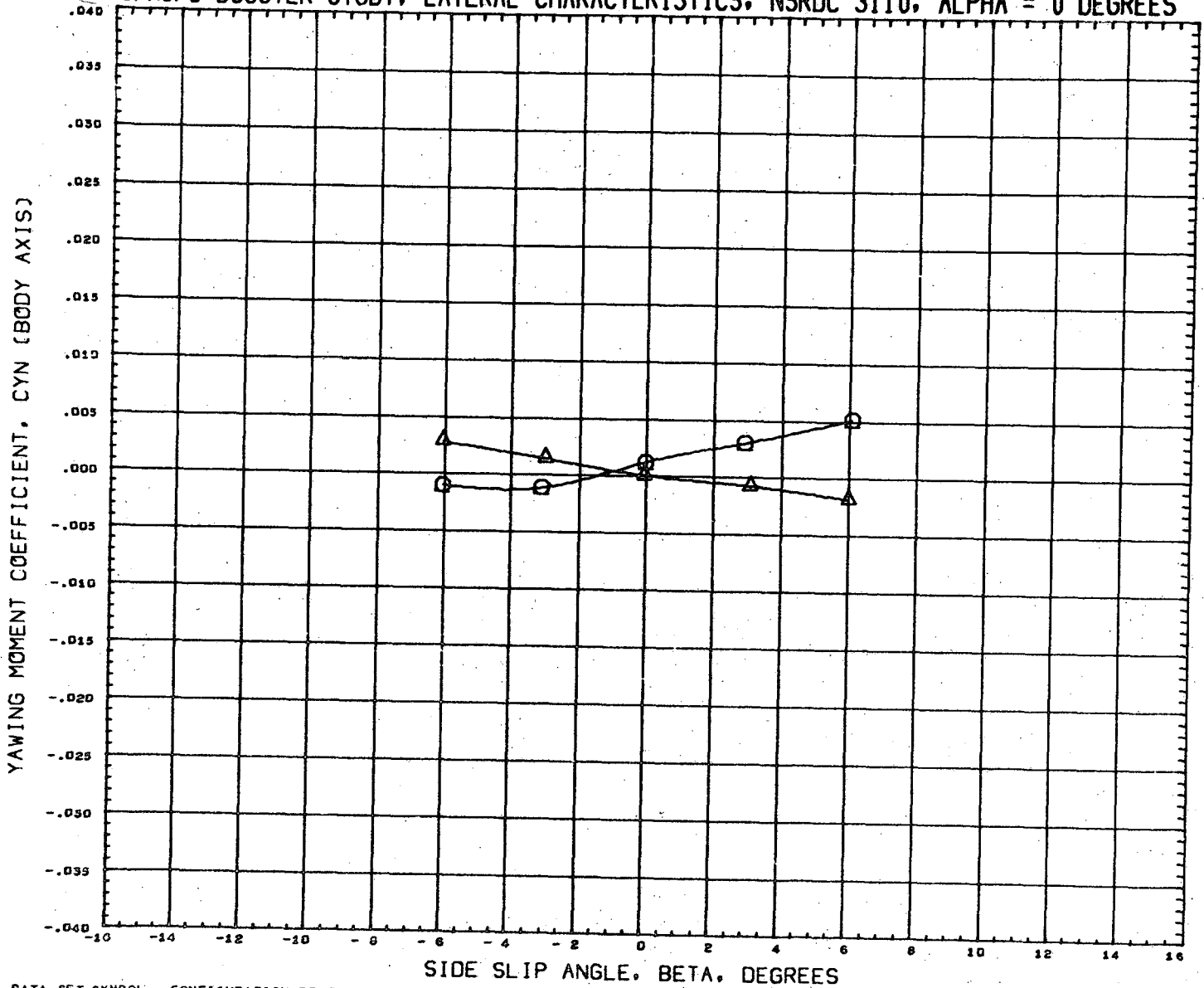
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN207D)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2066)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.379

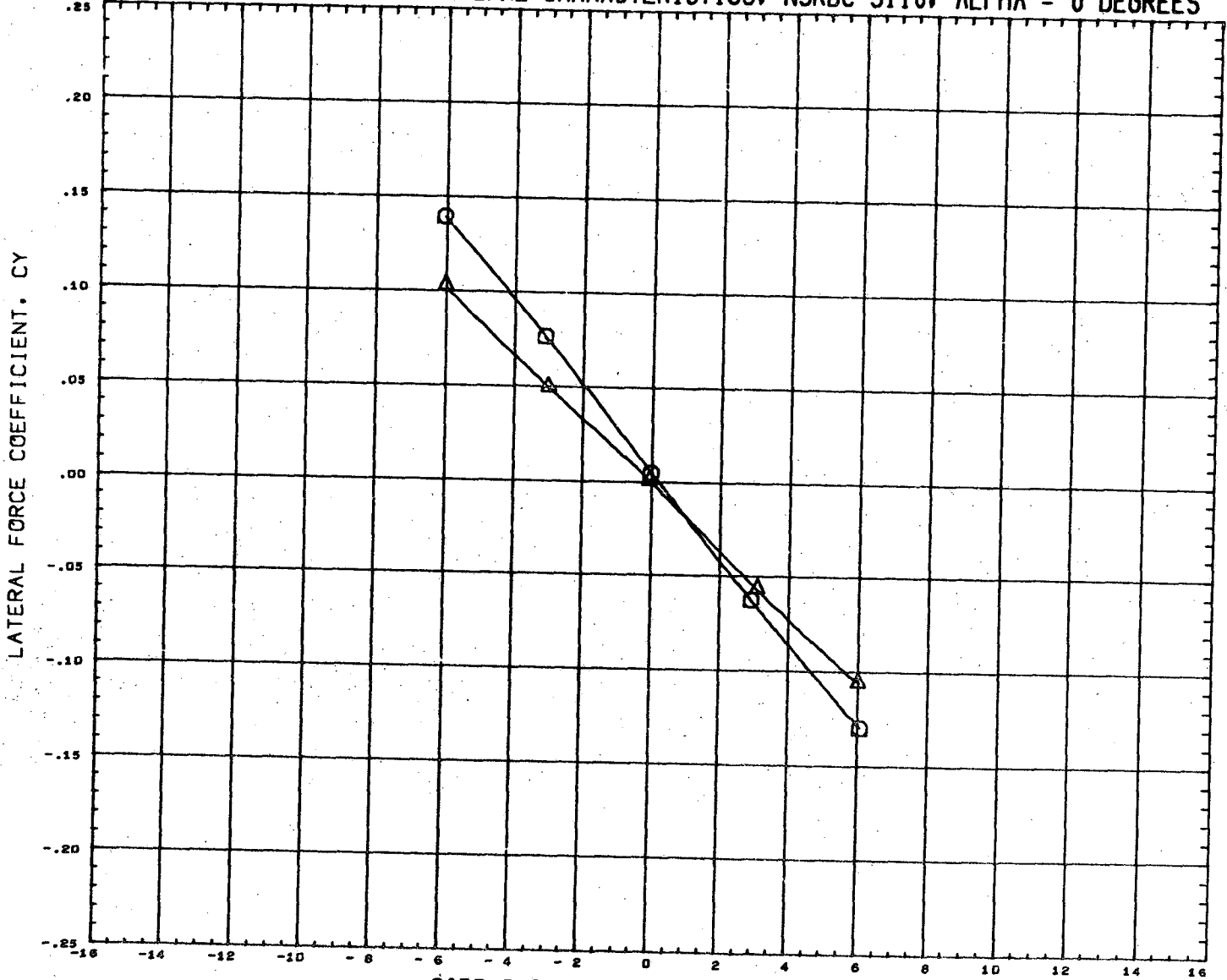
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2070)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2086)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.379

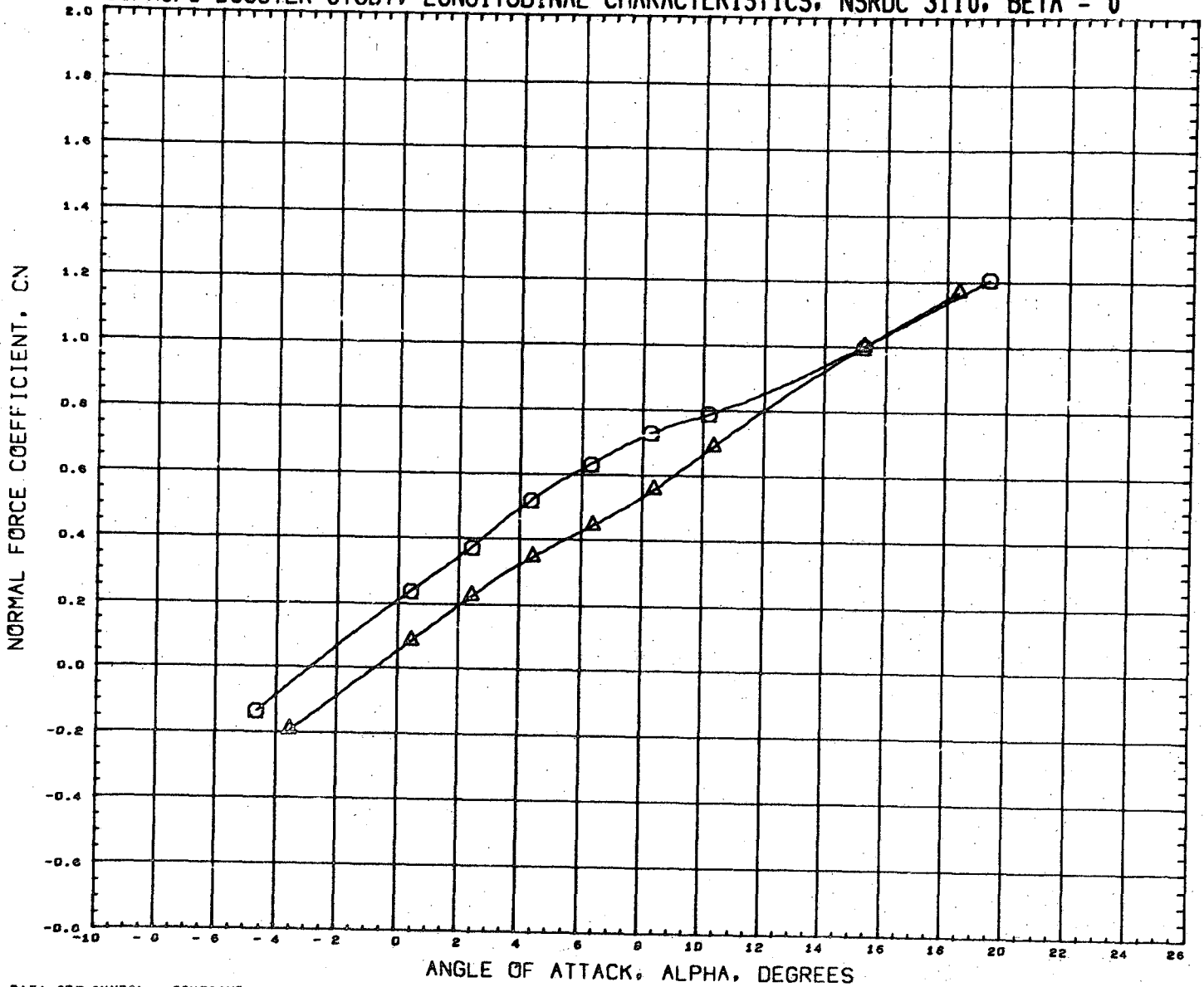
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDFOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2D70)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2D86)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.379

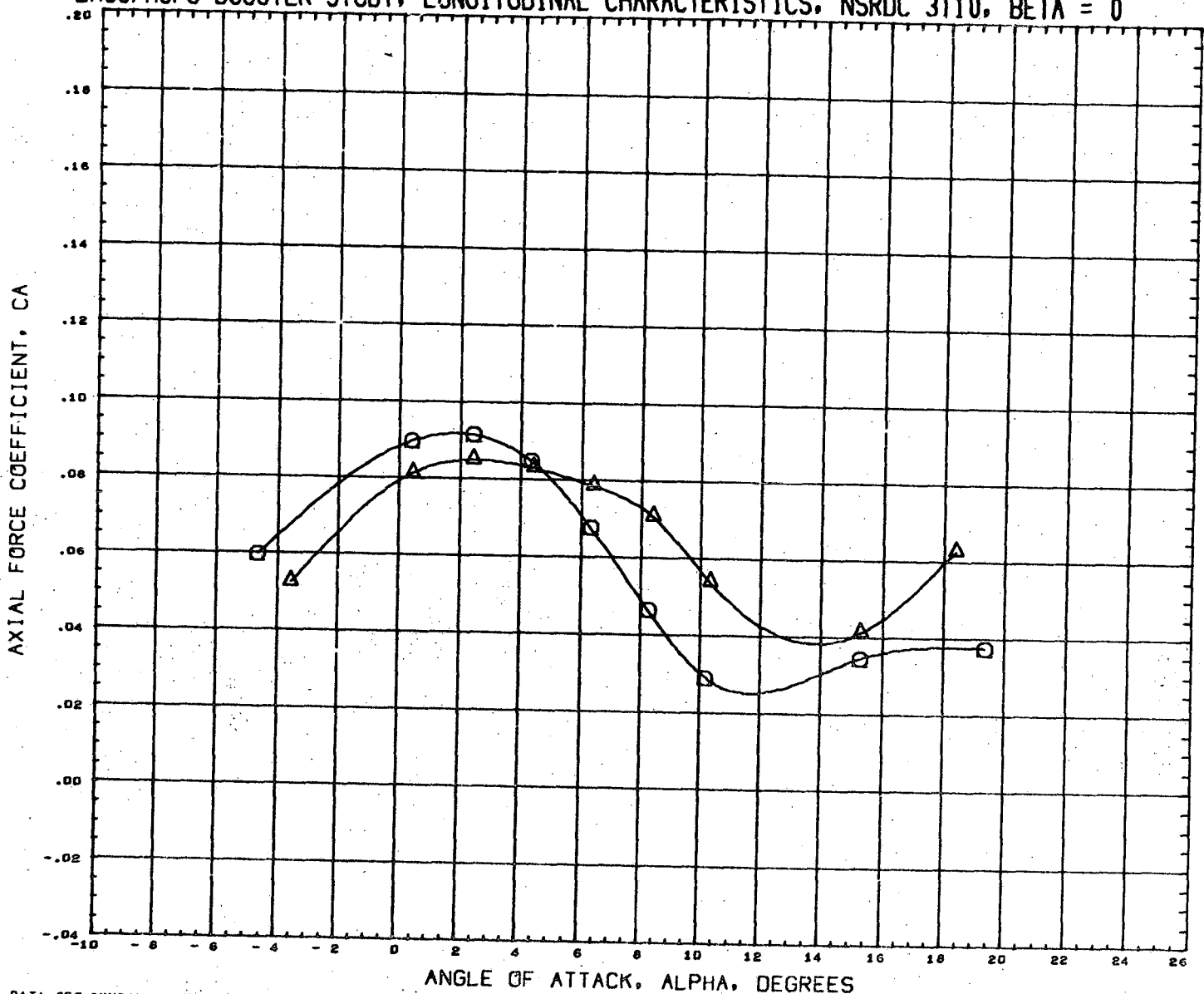
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2077)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2093)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMKP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

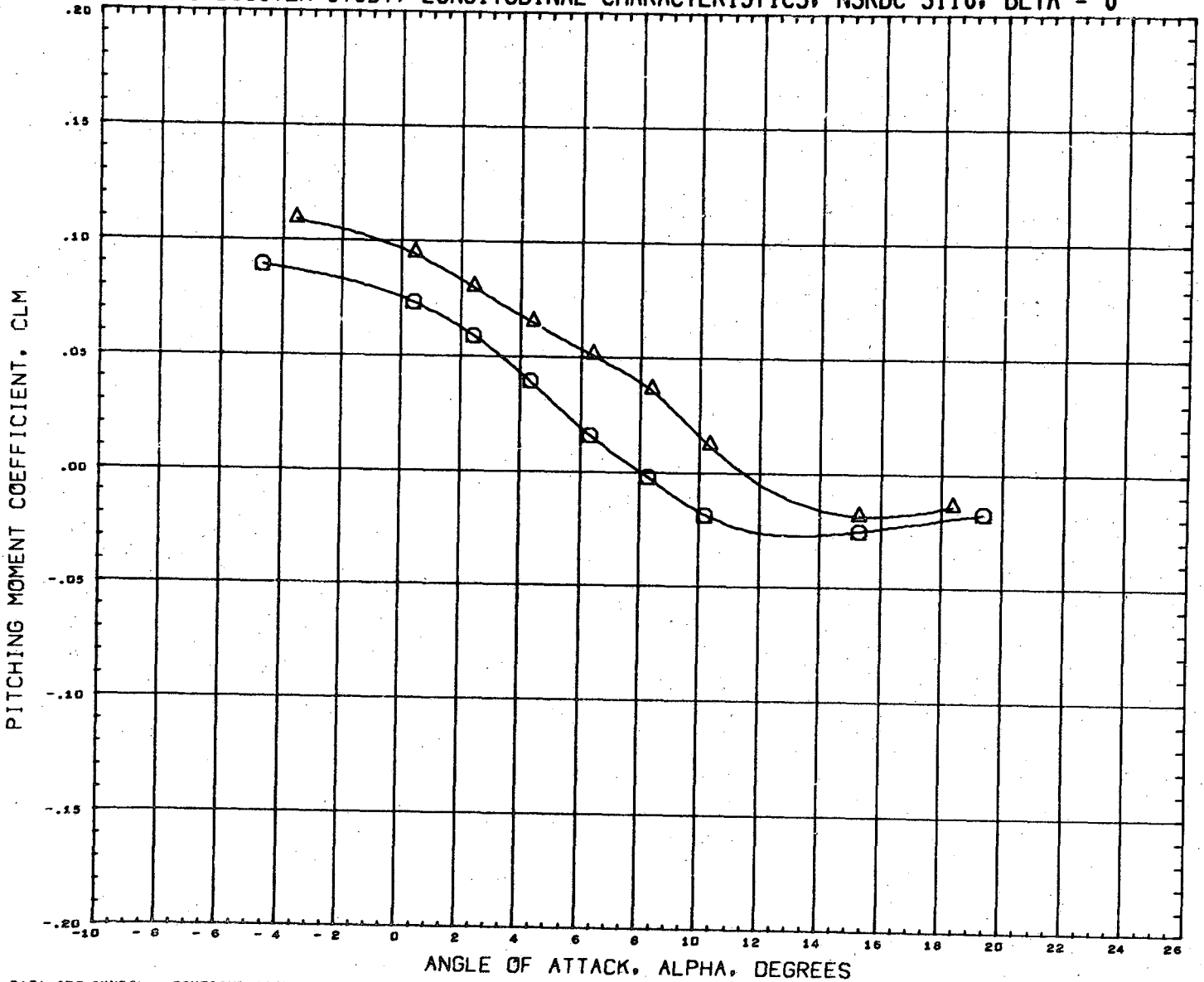
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2077)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2193)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

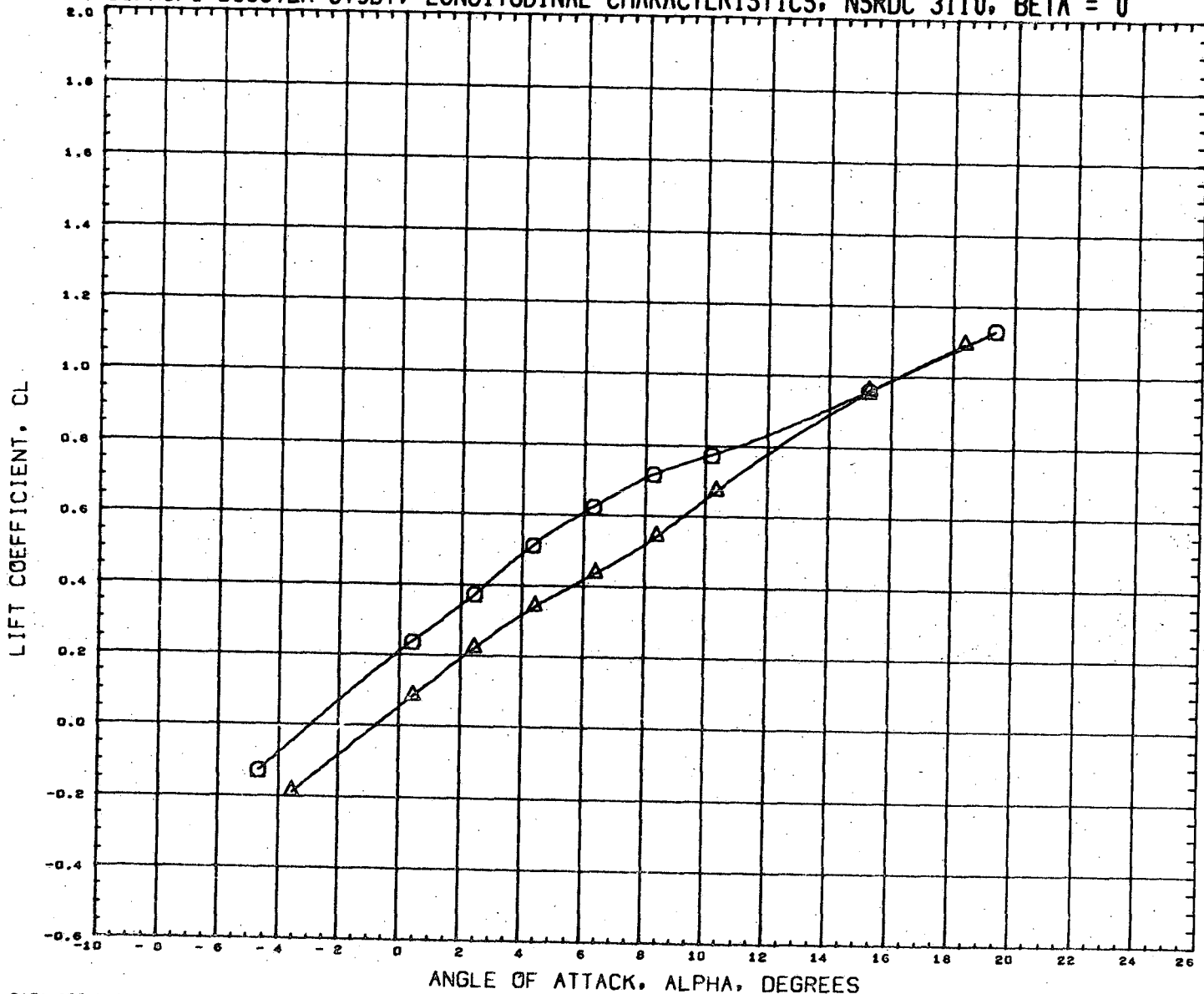
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2077)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2093)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

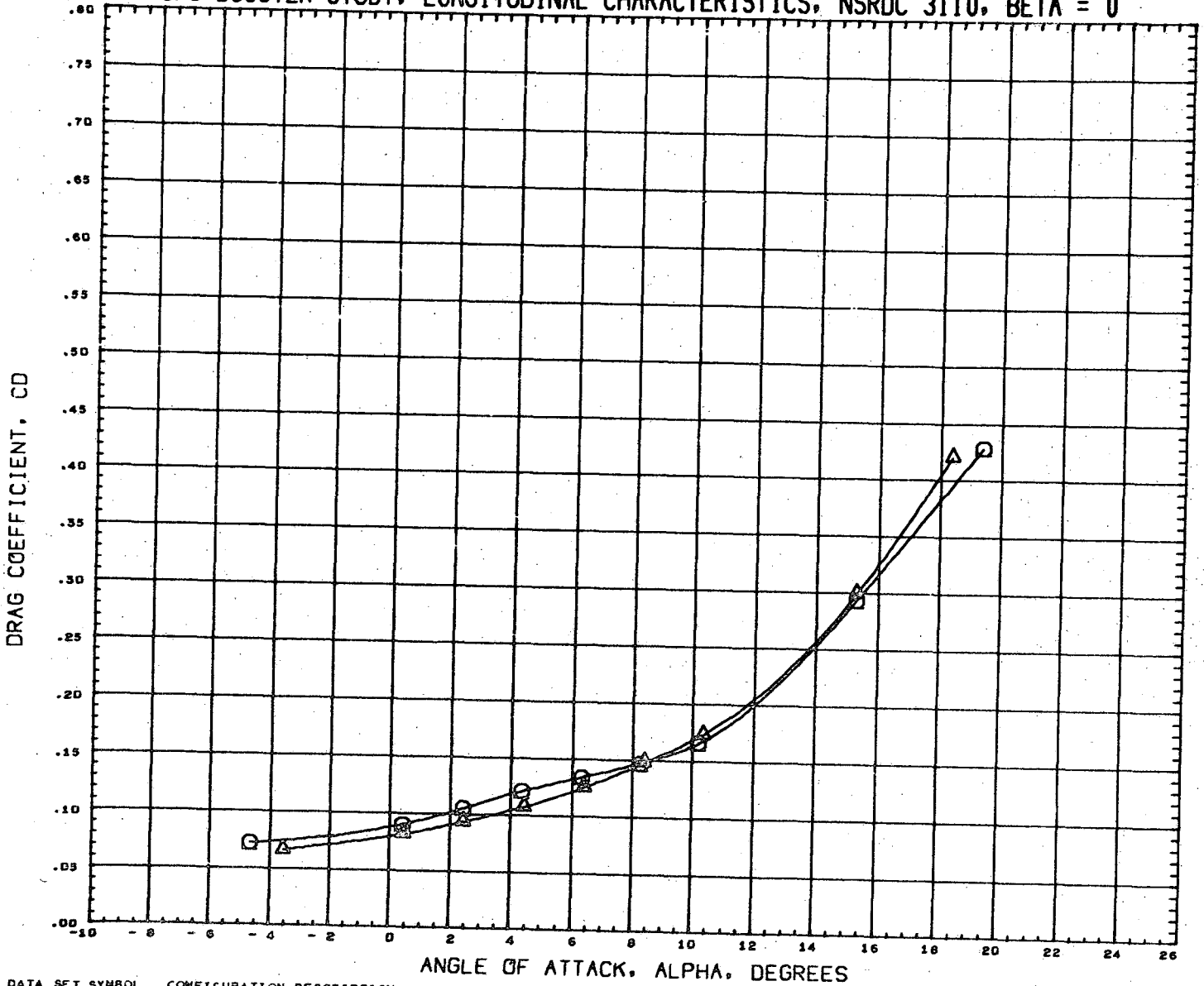
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CMDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2077)	NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2093)	NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2077) \circ
(RN2093) \triangle

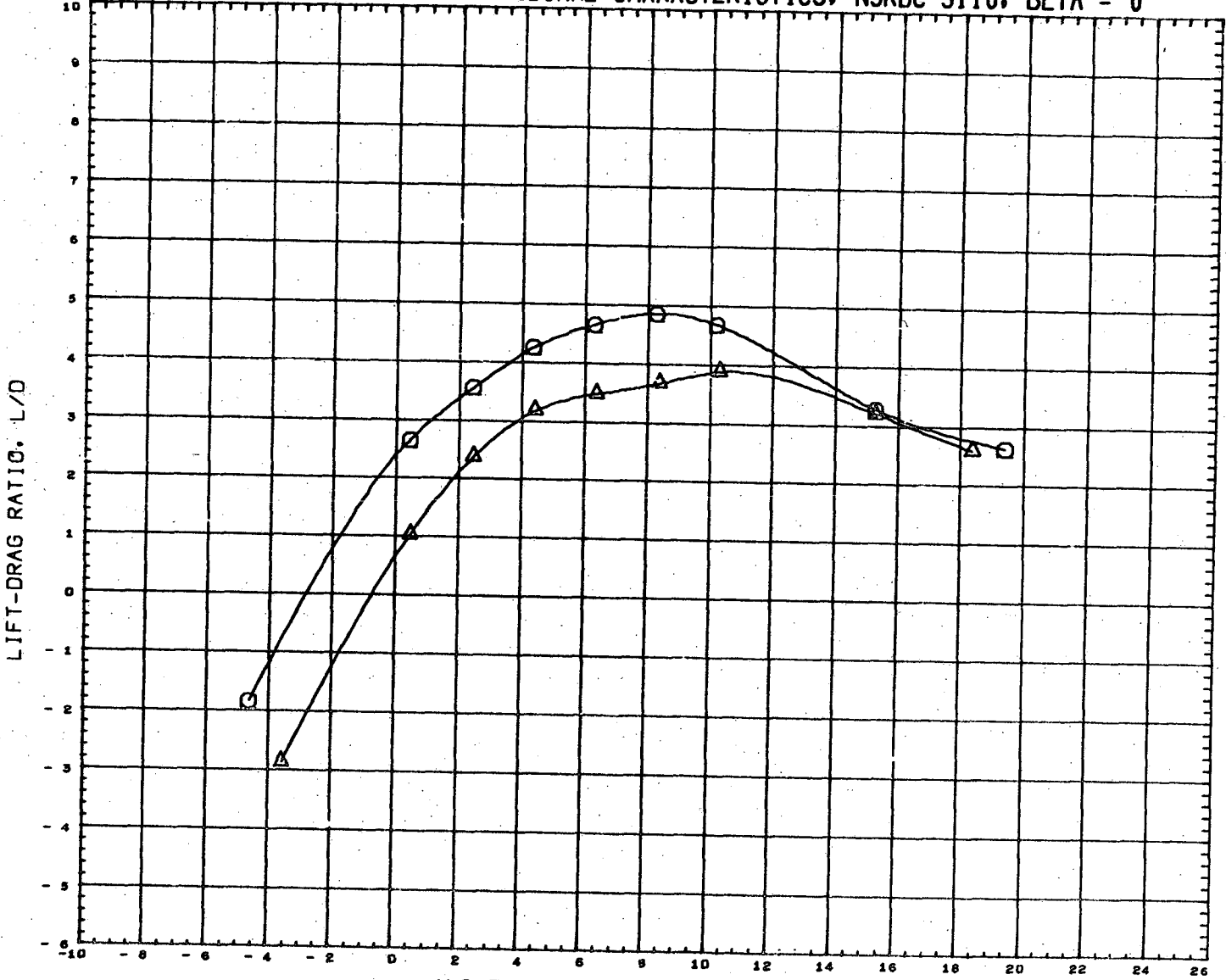
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.380

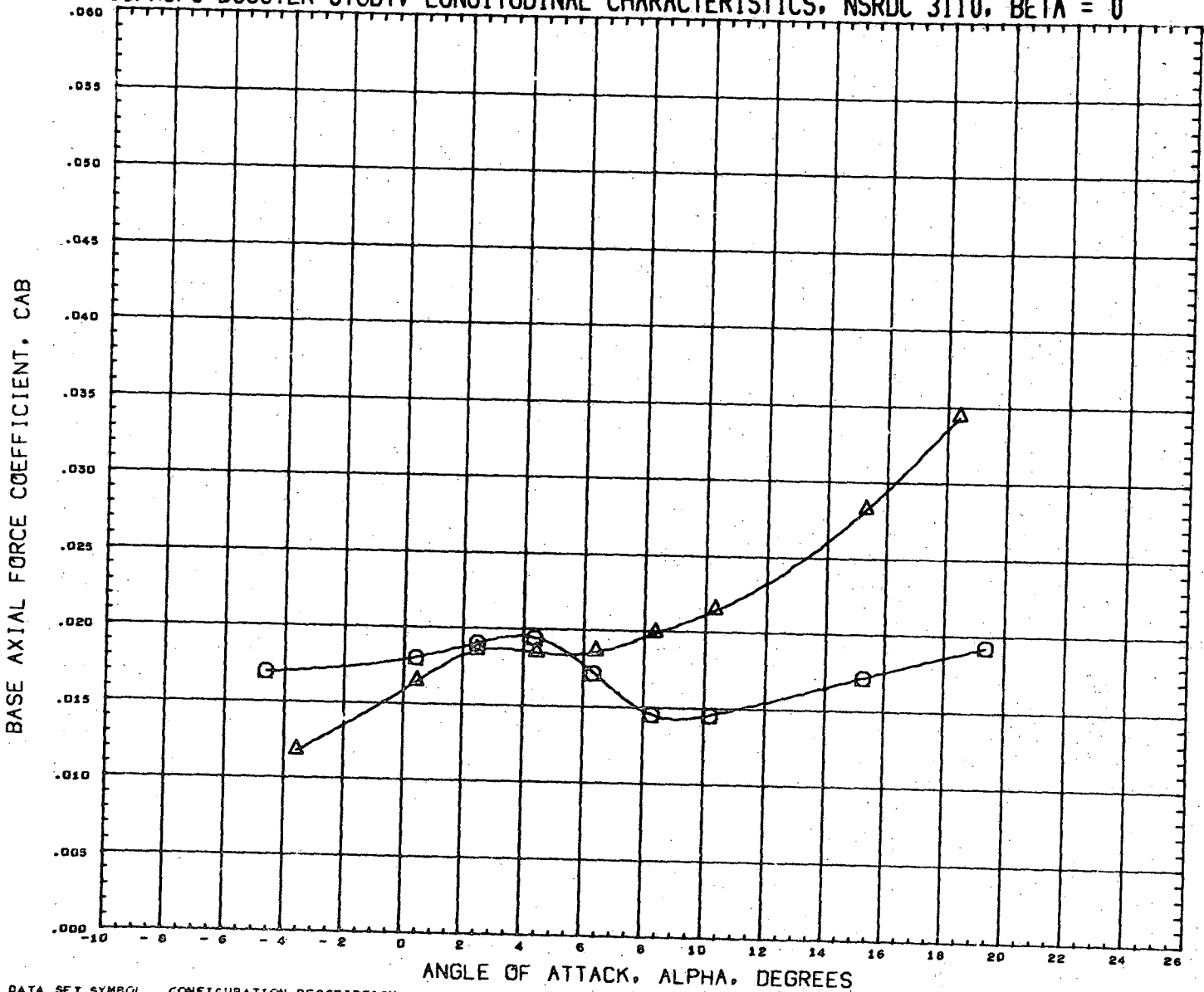
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2077)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2093)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

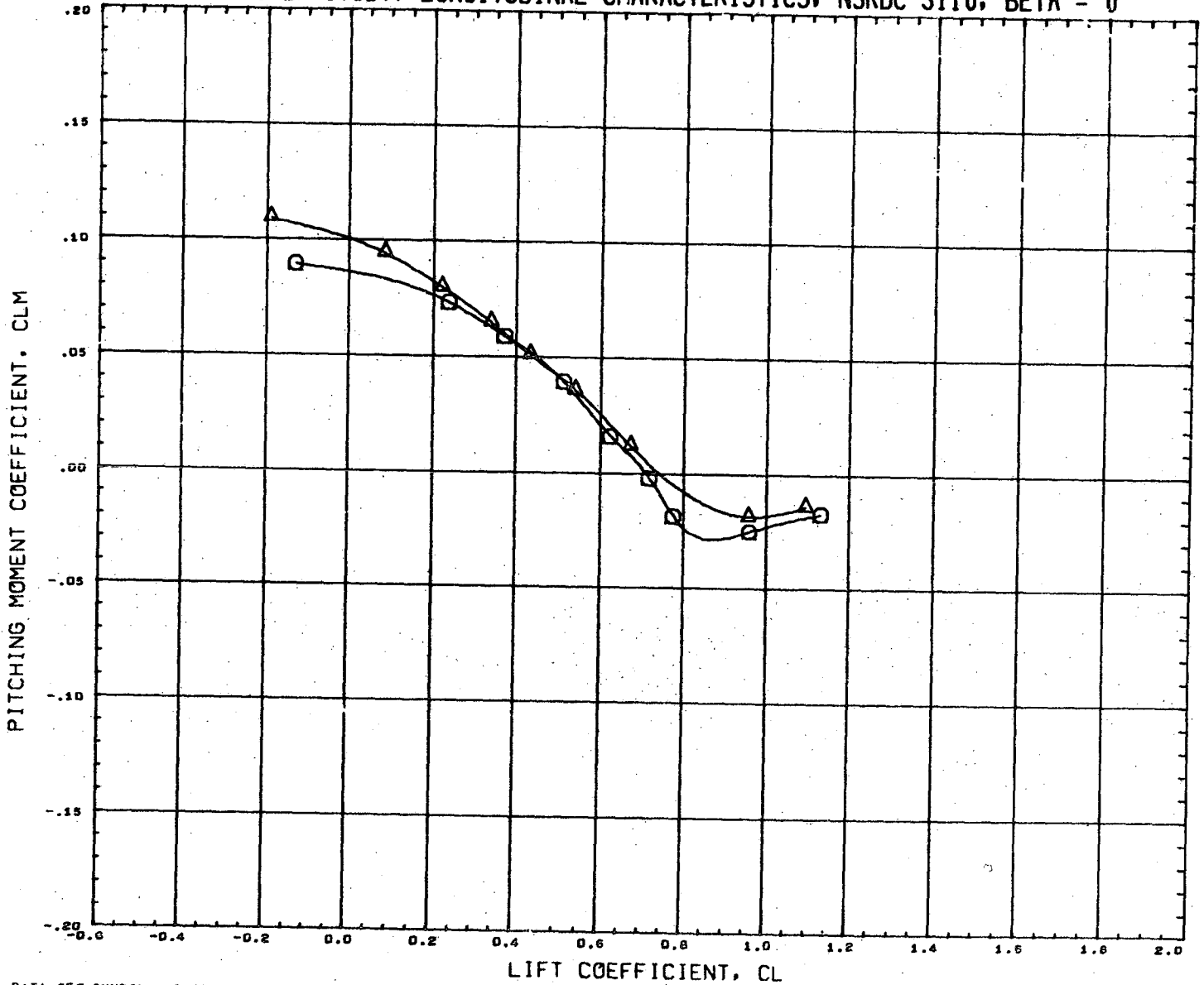
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2077)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2093)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.360

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2077) Q
(RN2093) Q

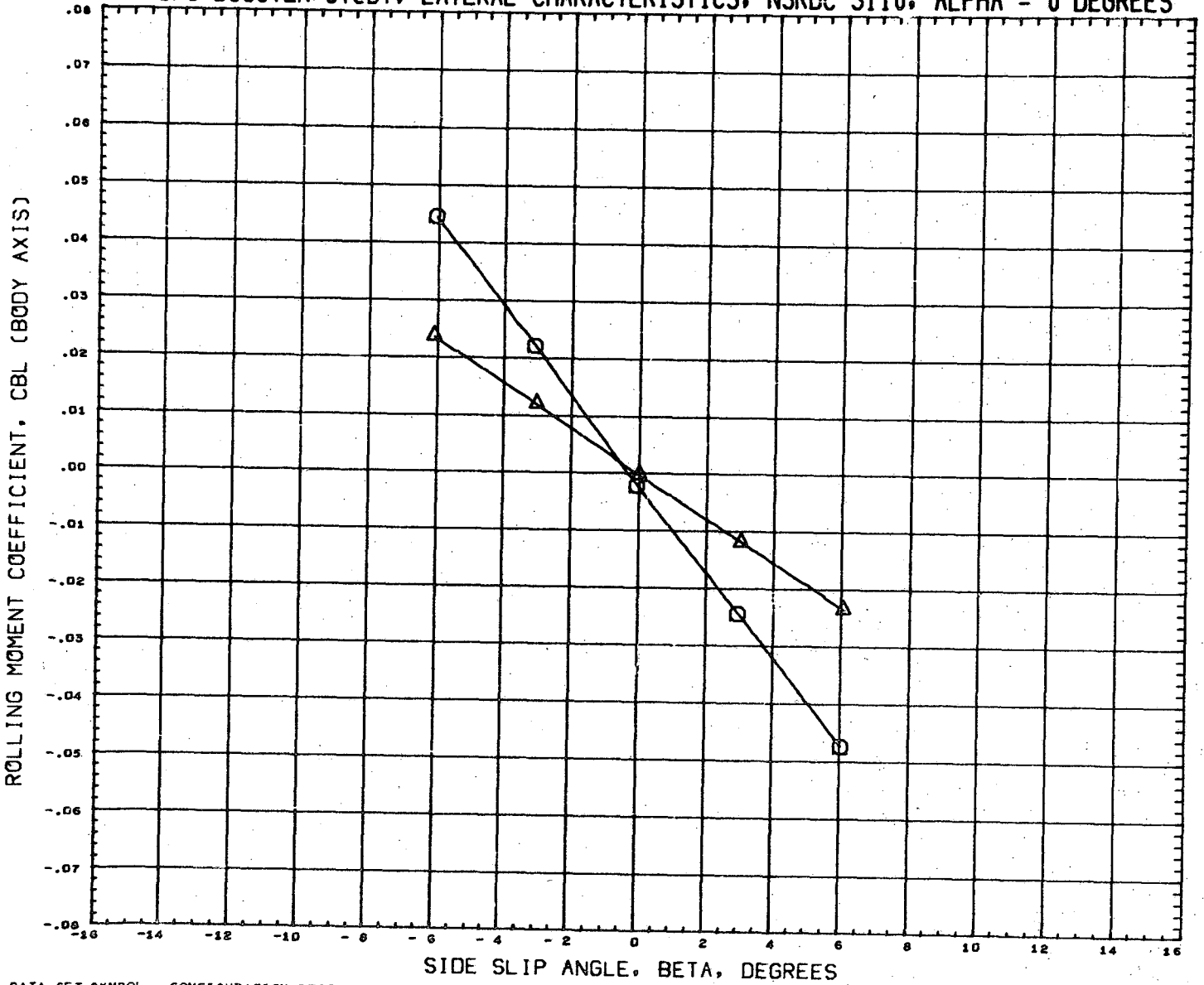
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1



INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION		
SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2078) 
(RN2094) 

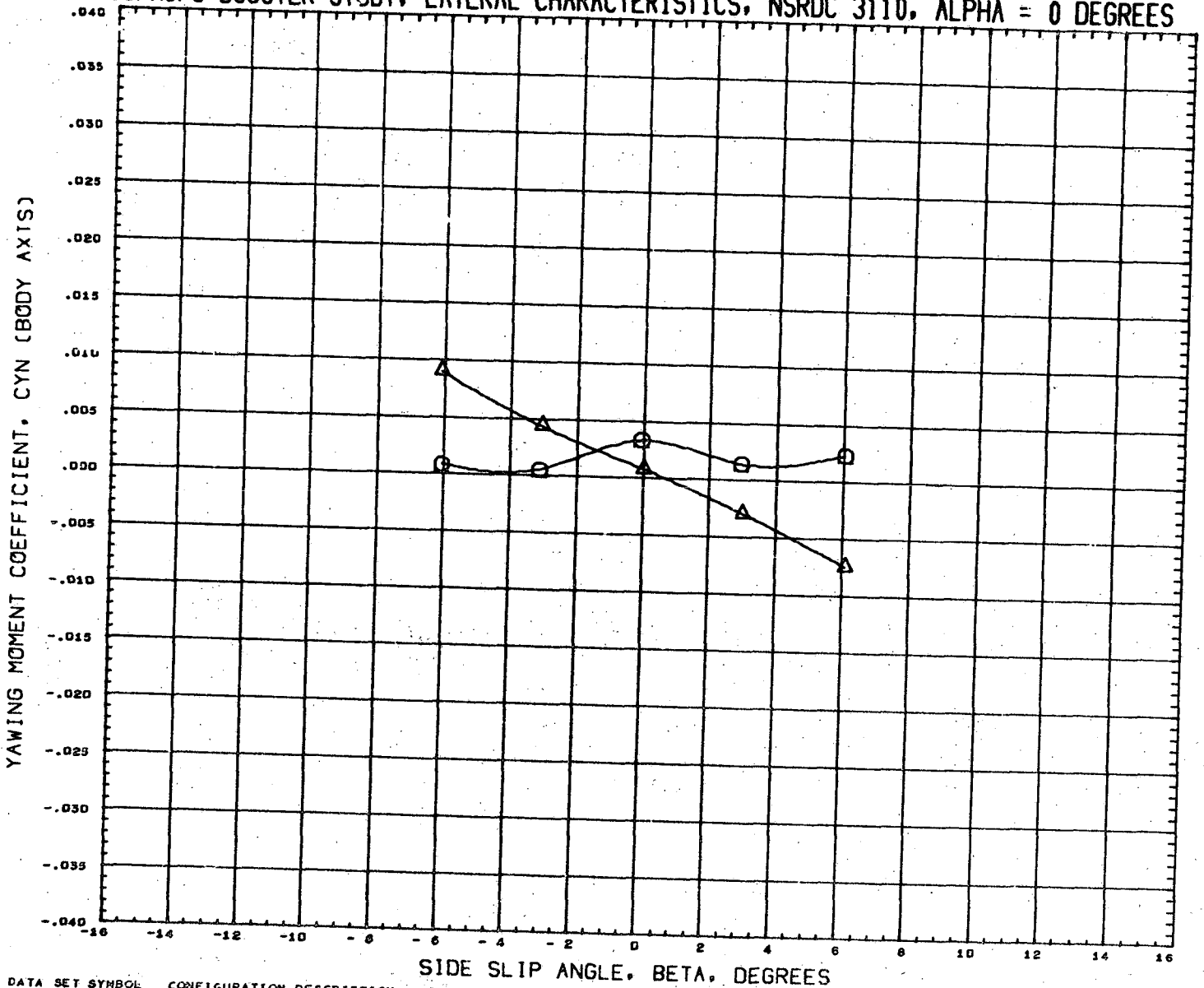
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC, BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2078)
(RN2094)



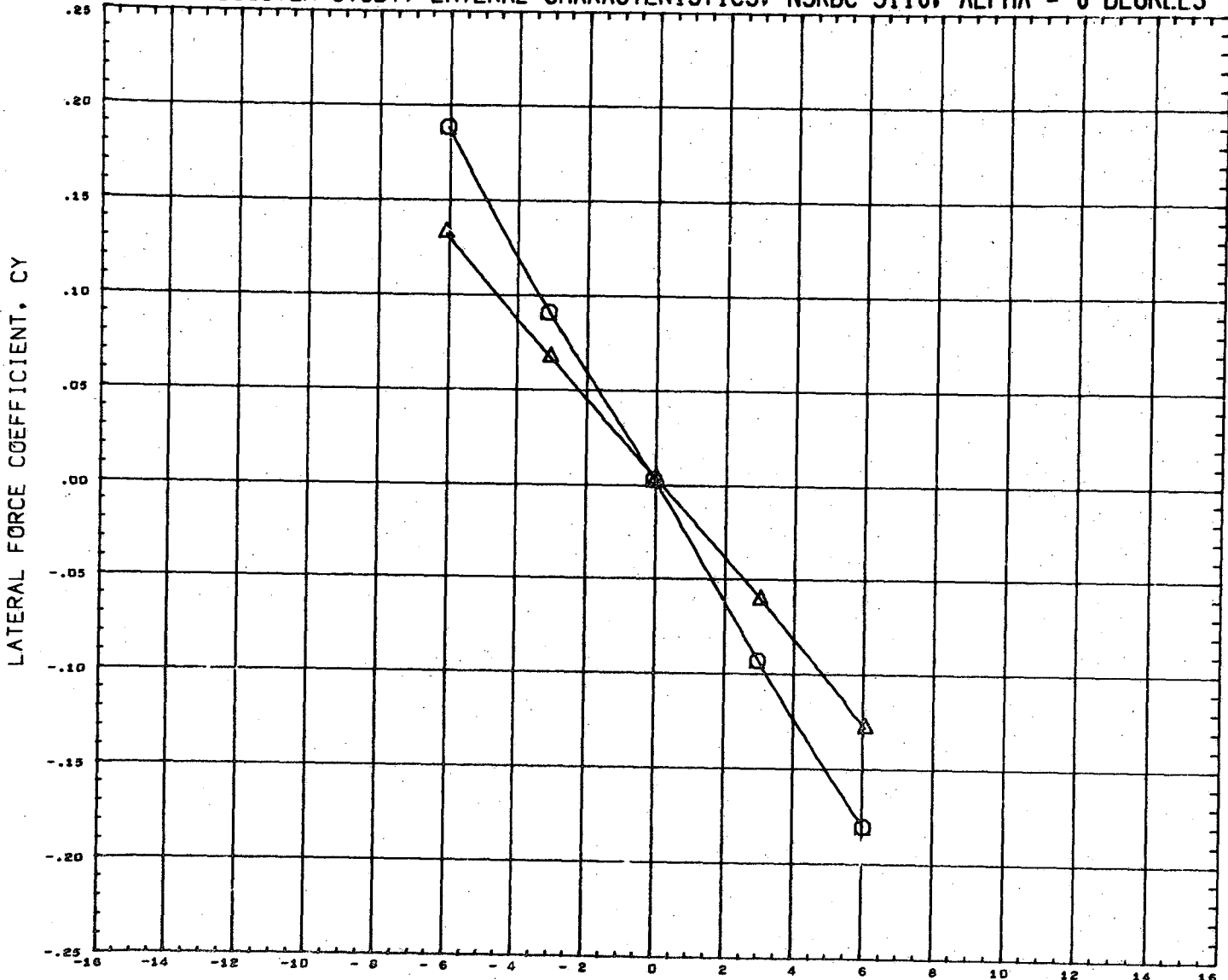
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.360

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
 (RN2078) \circ
 (RN2094) \triangle

CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1
 NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1

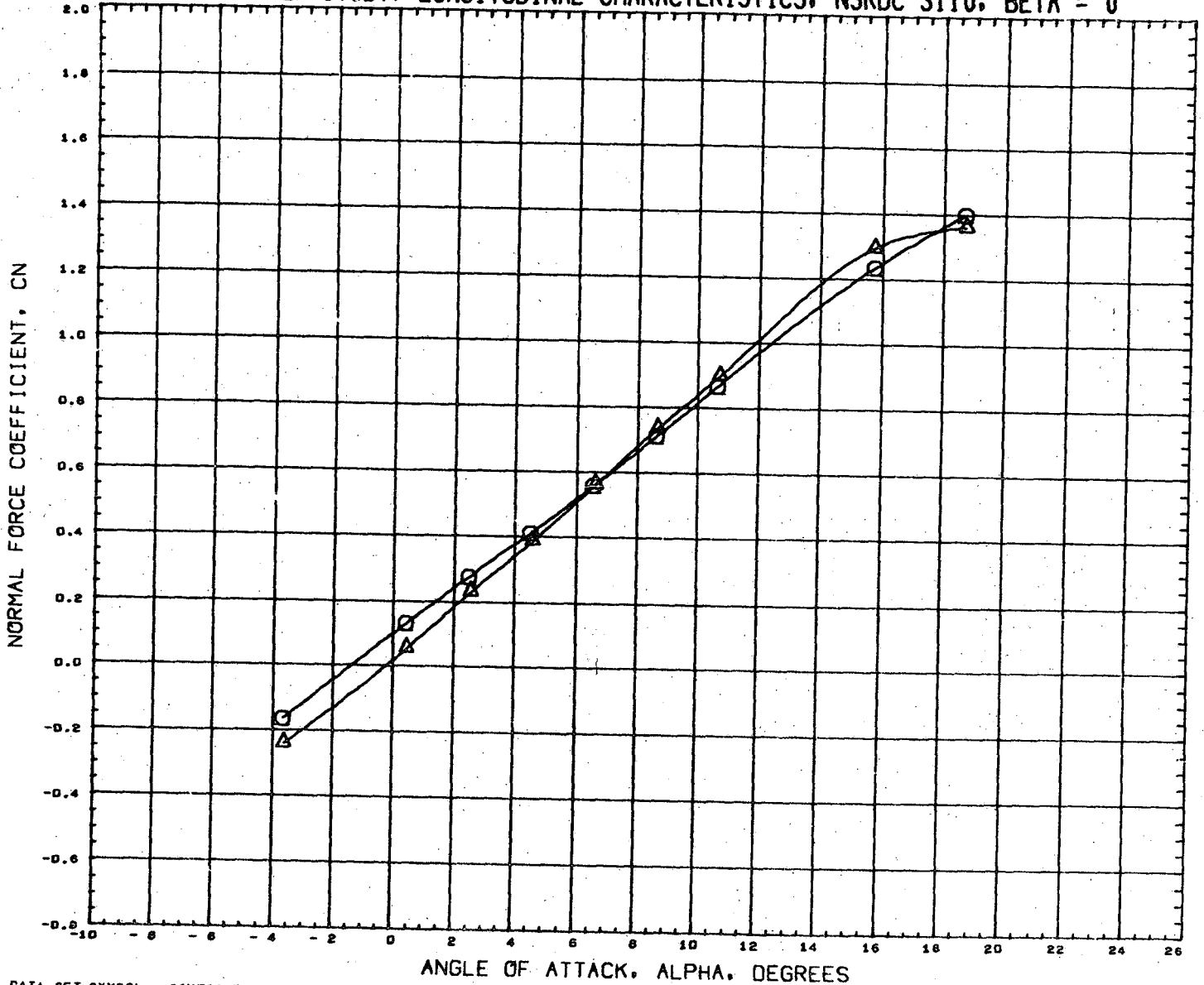
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.360

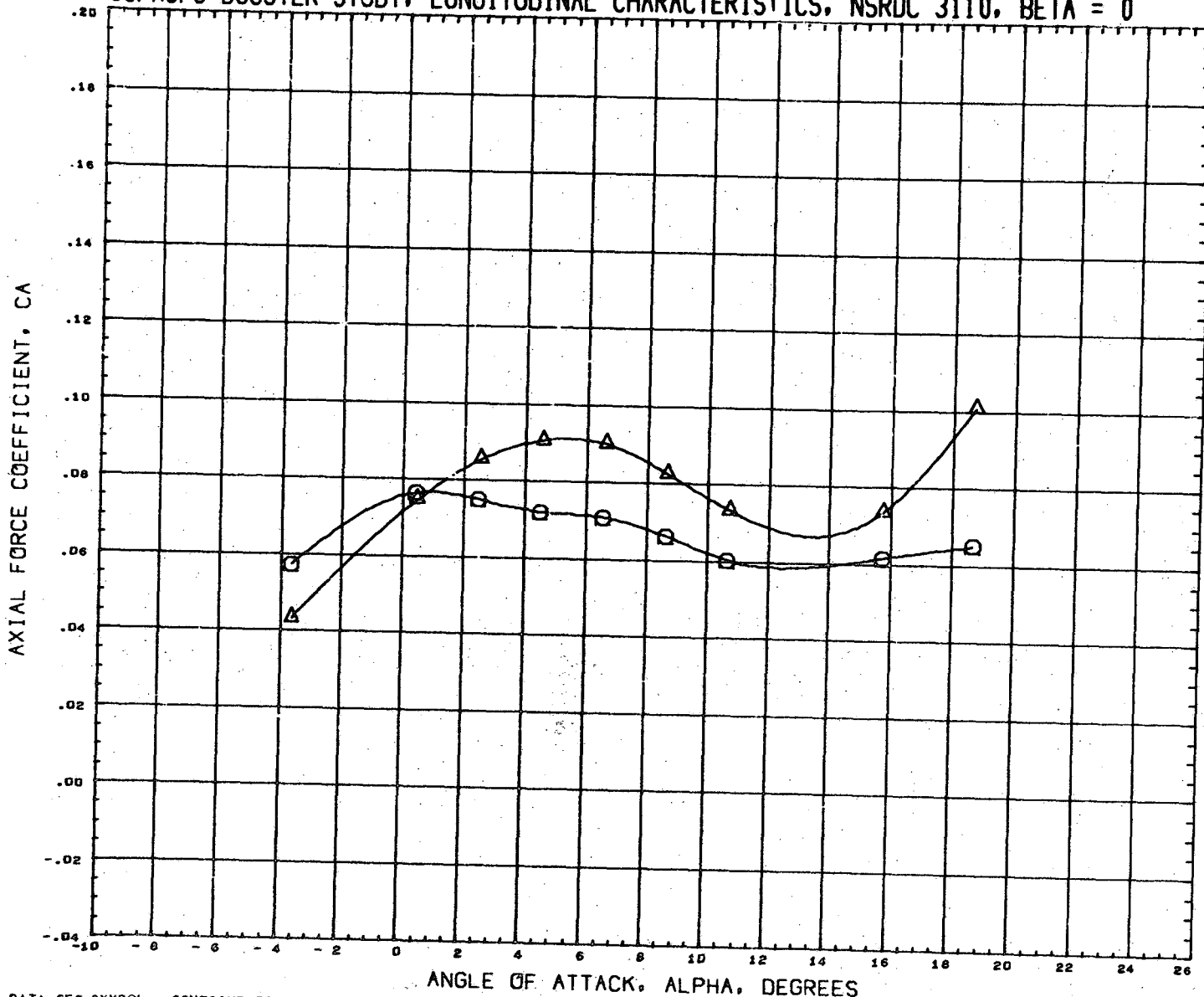
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2133)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2149)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

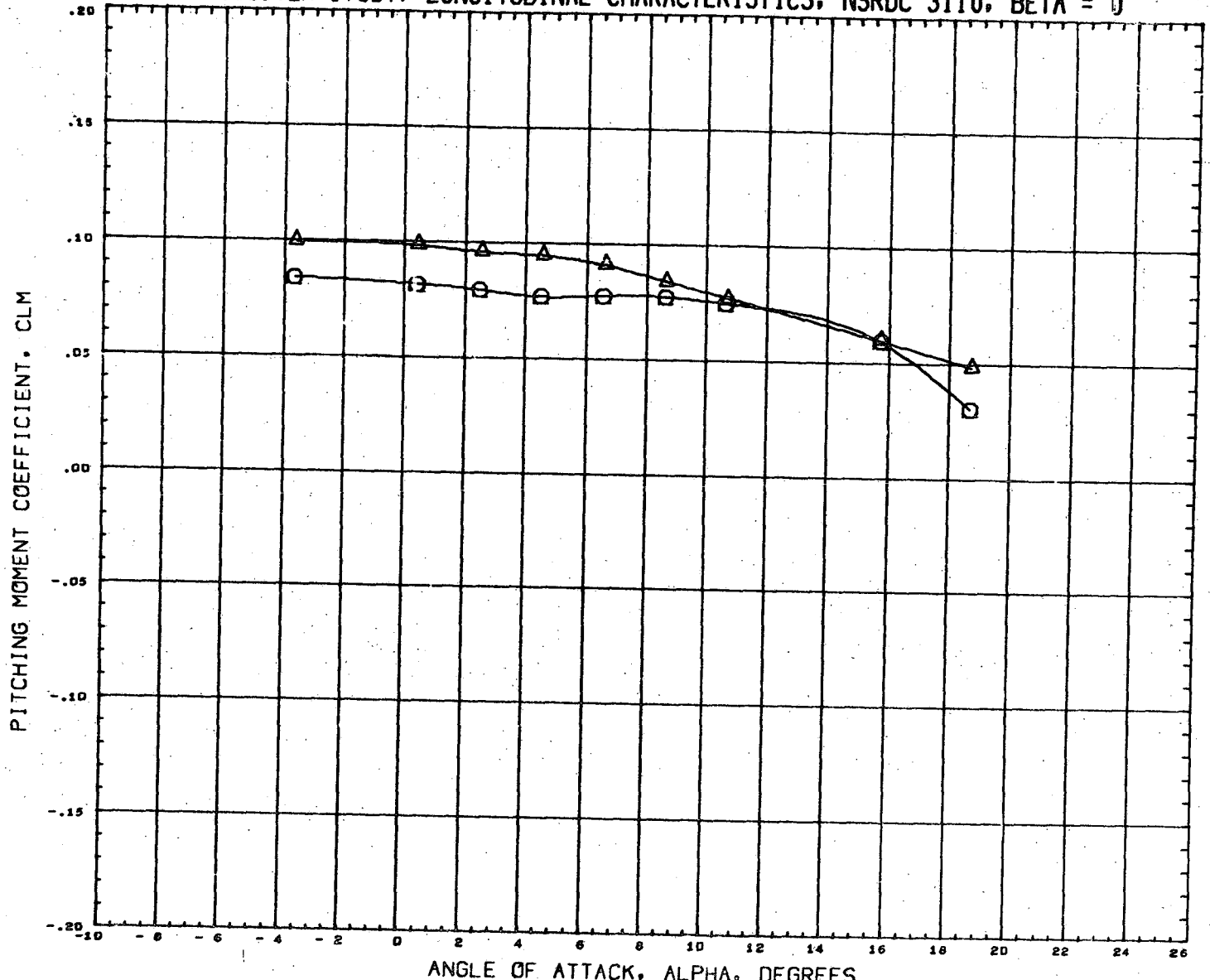
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2133)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2149)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

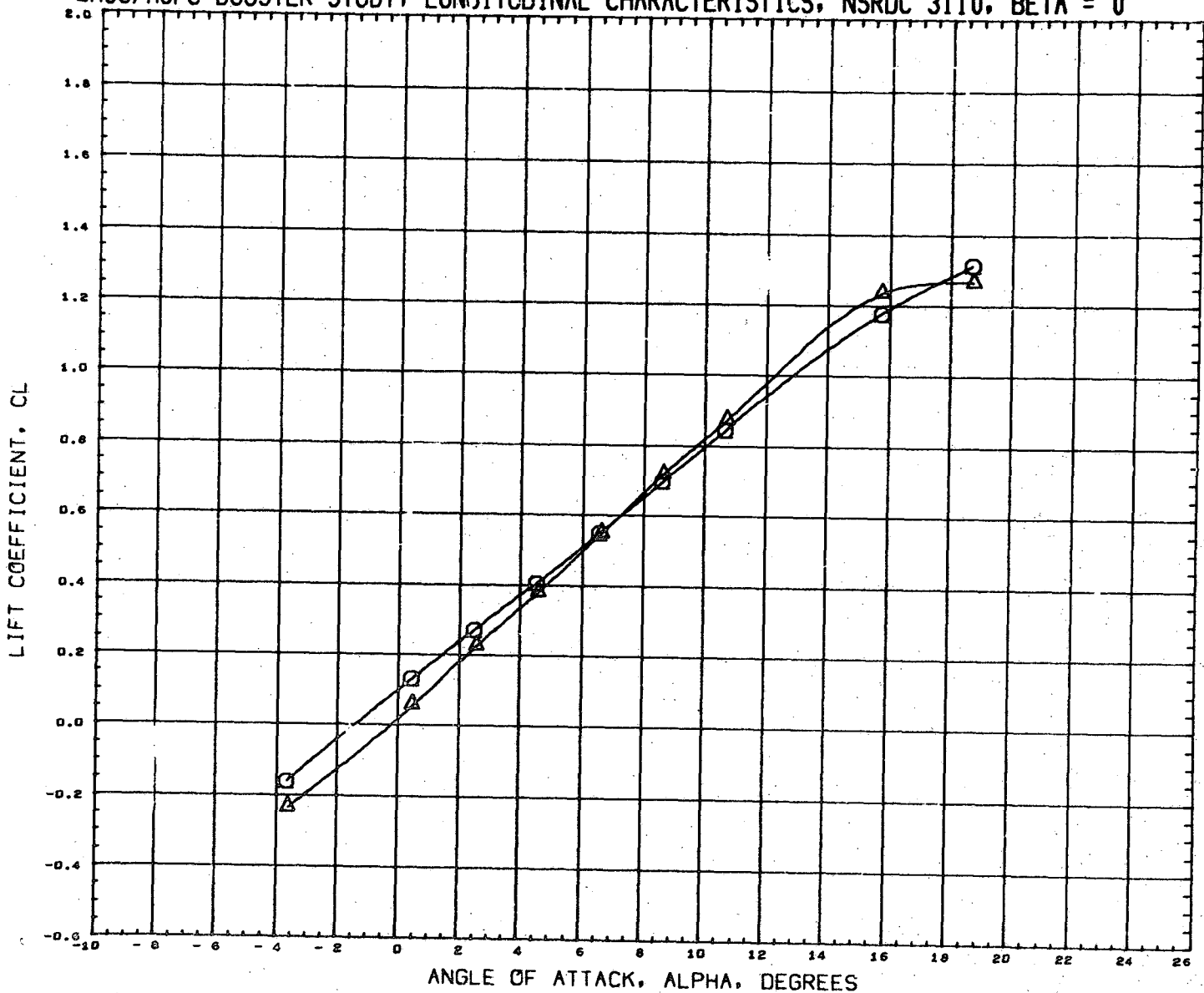
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2133)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2149)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5100 PERCENT

MACH 0.381

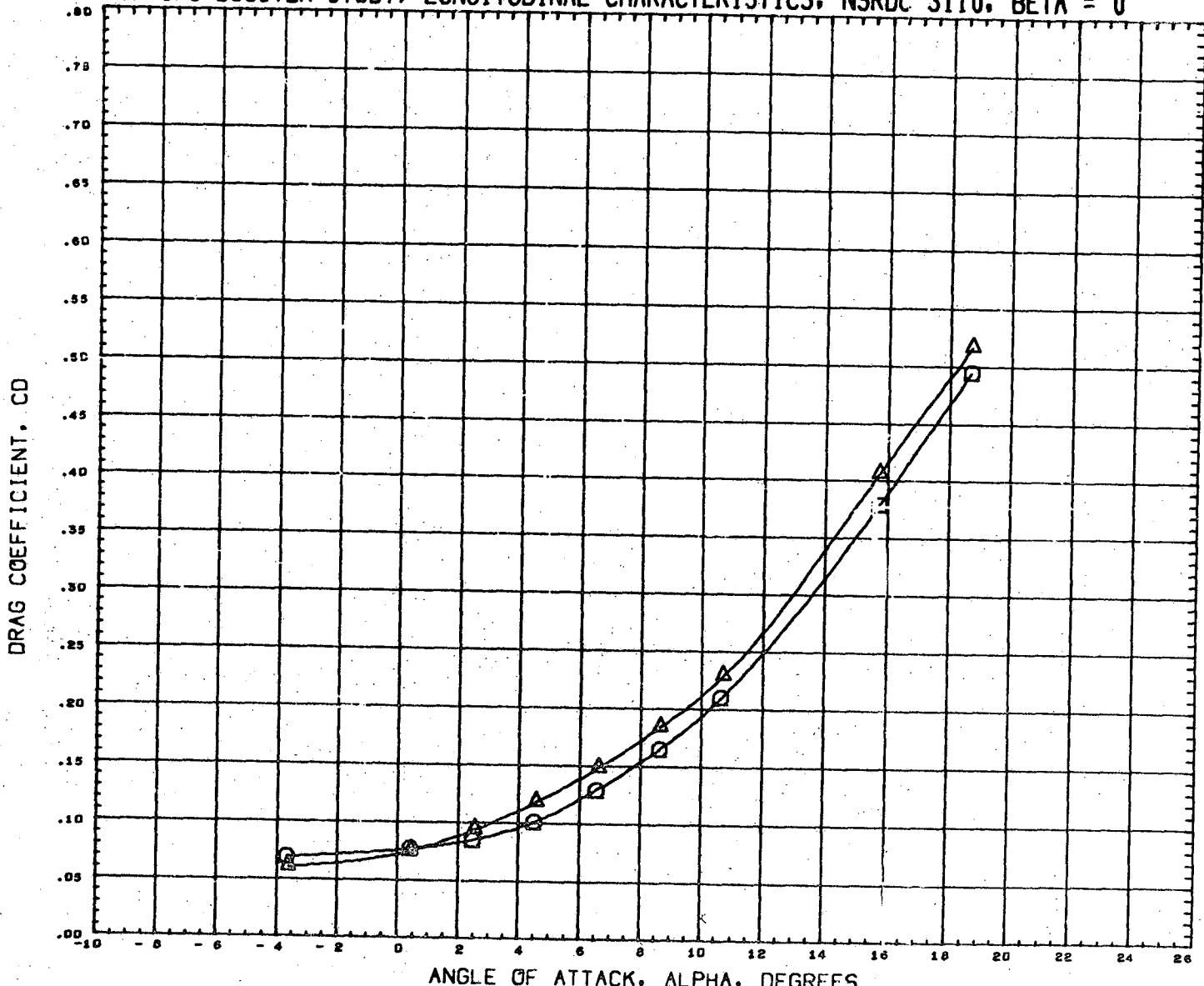
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2133)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2149)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.581

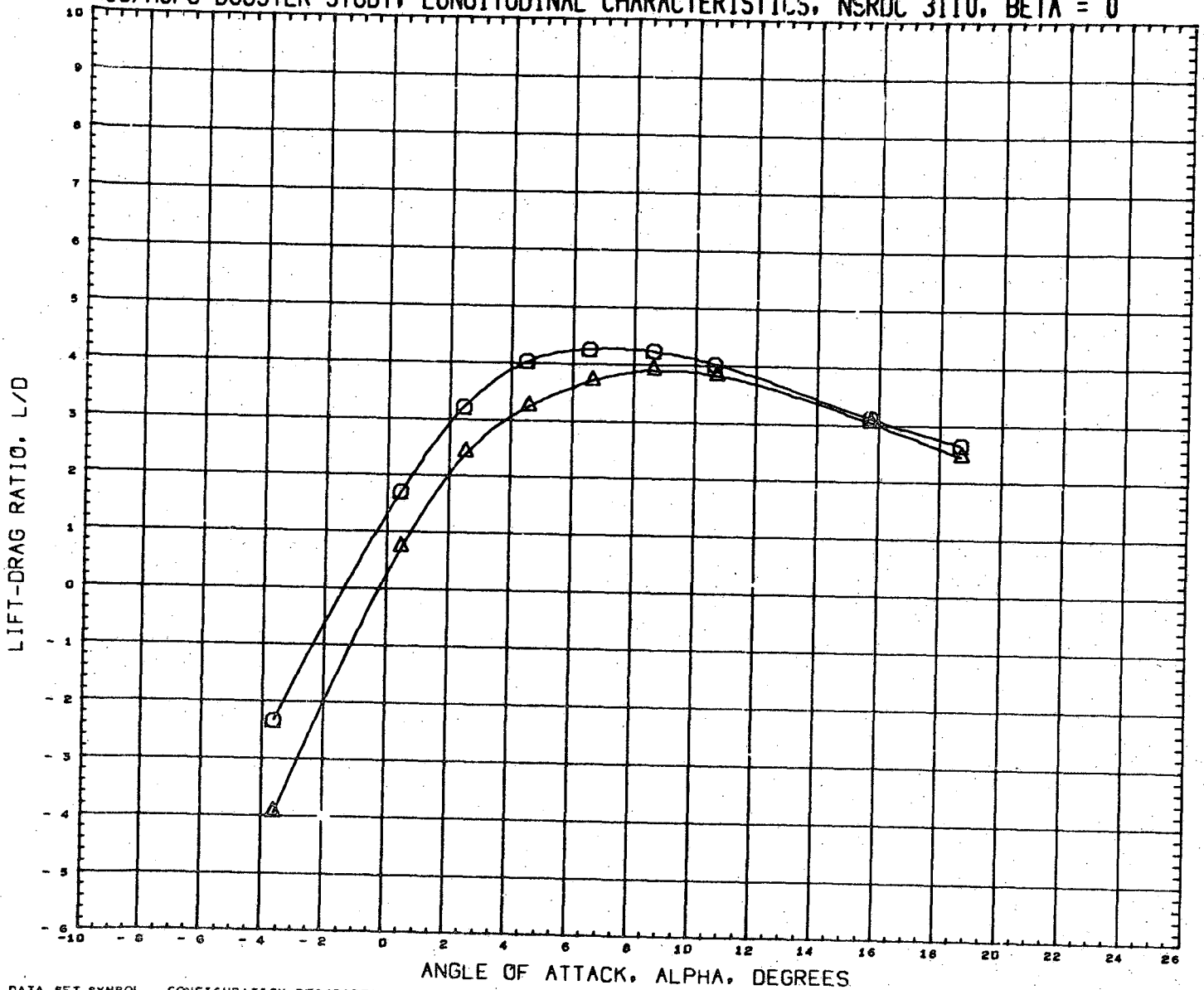
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110. BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2133)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2149)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2133) □
(RN2149) △

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

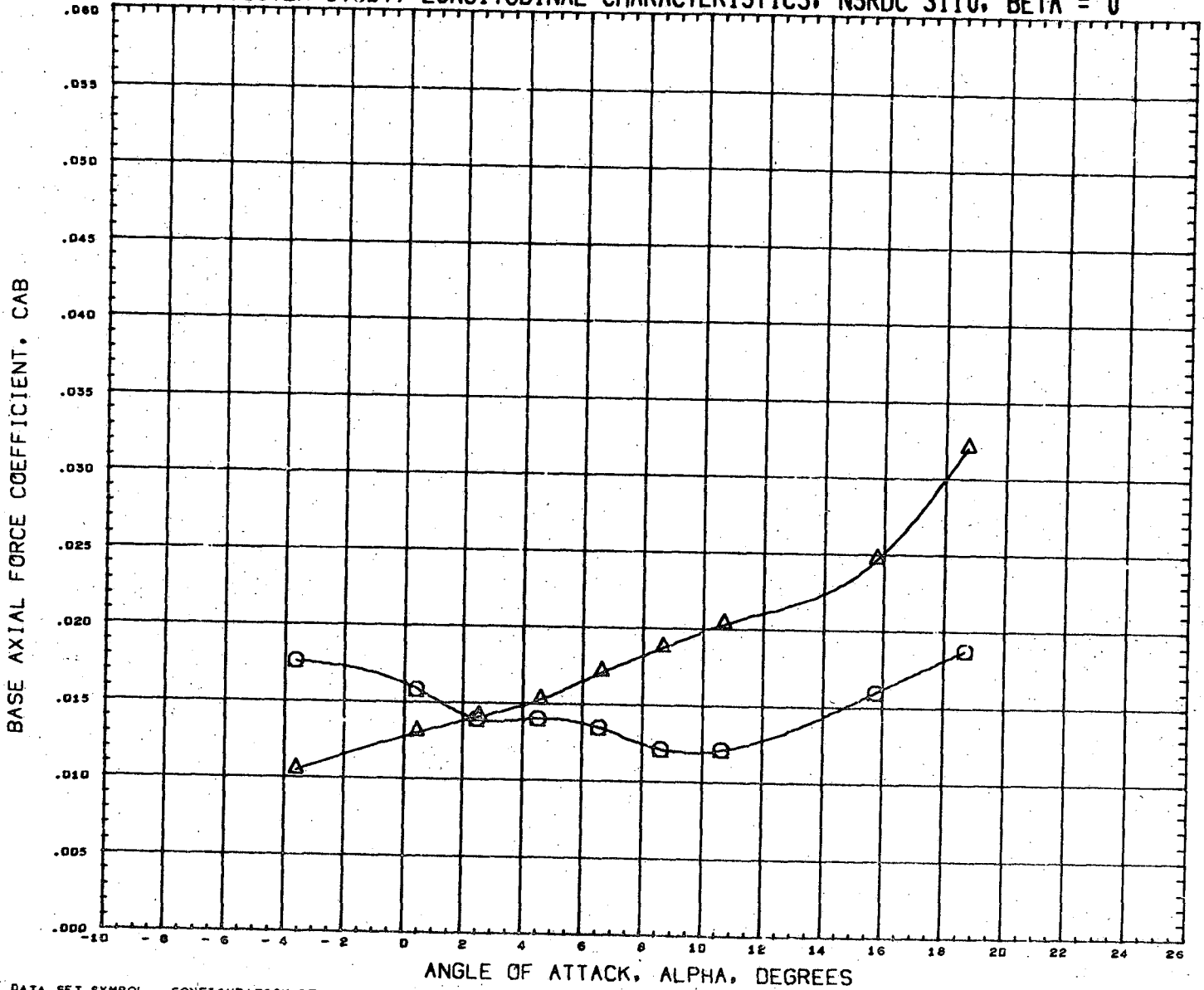
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.381

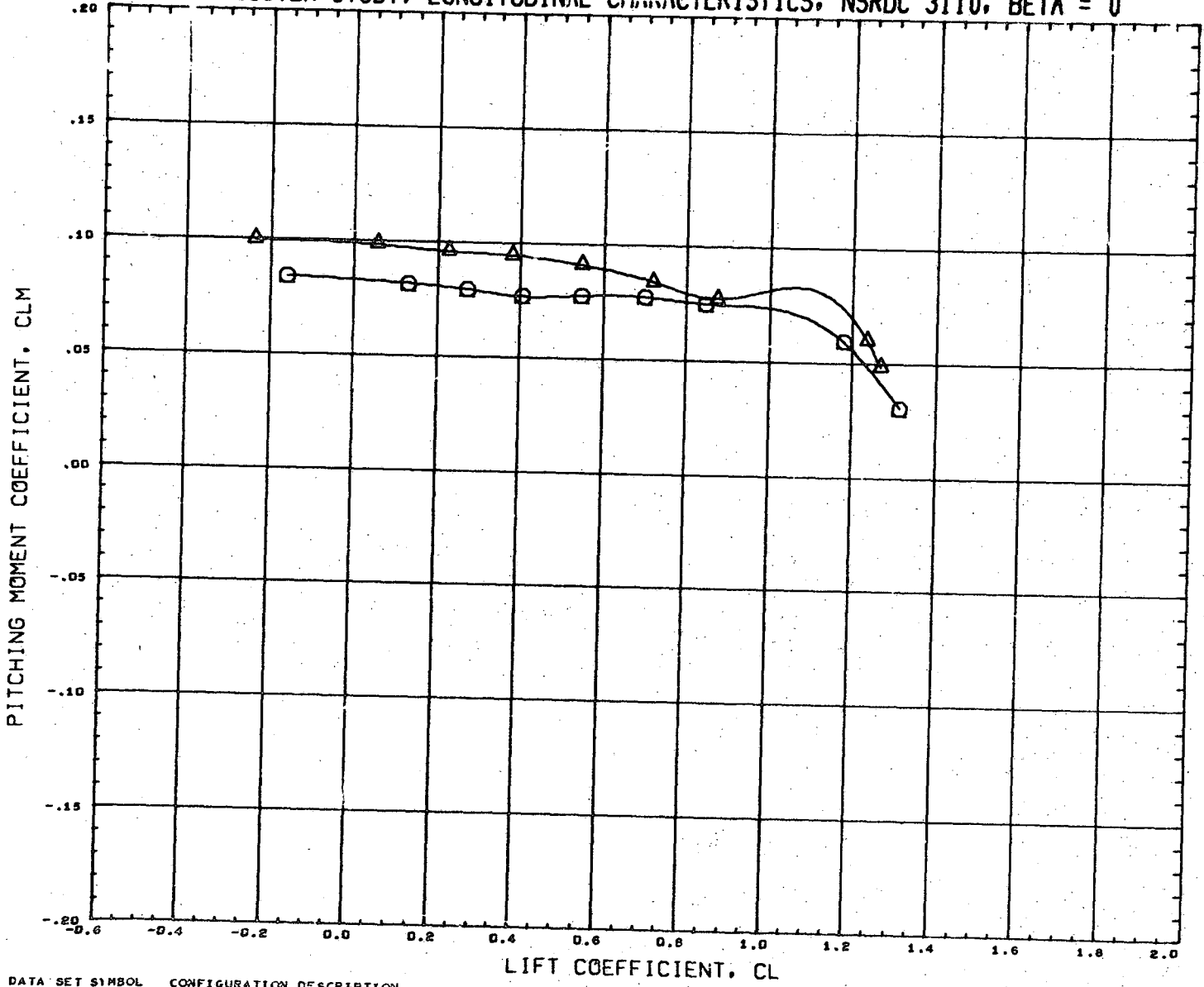
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2133)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2149)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.2400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

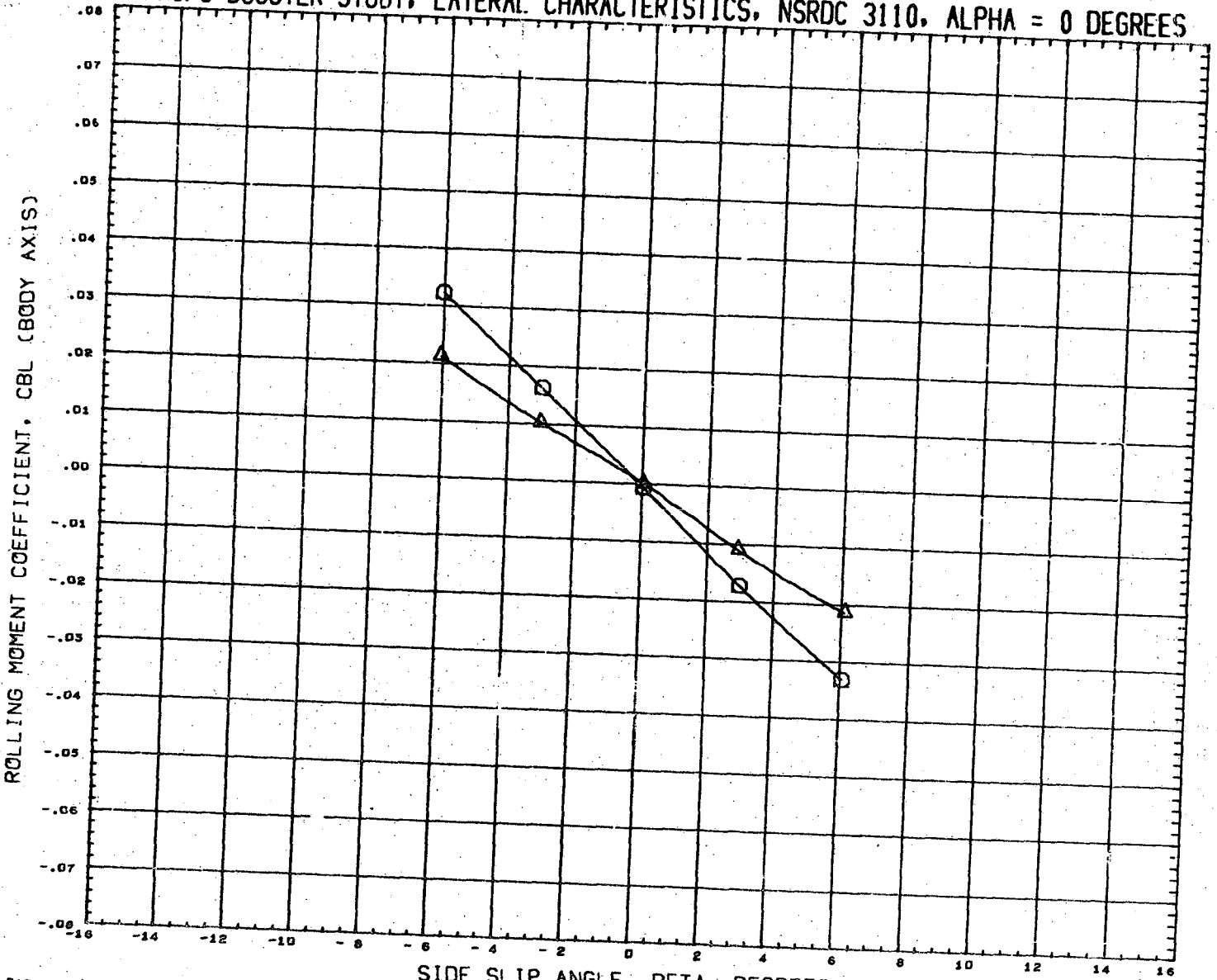
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2133)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2149)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1-00 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2134) 
(RN2150) 

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

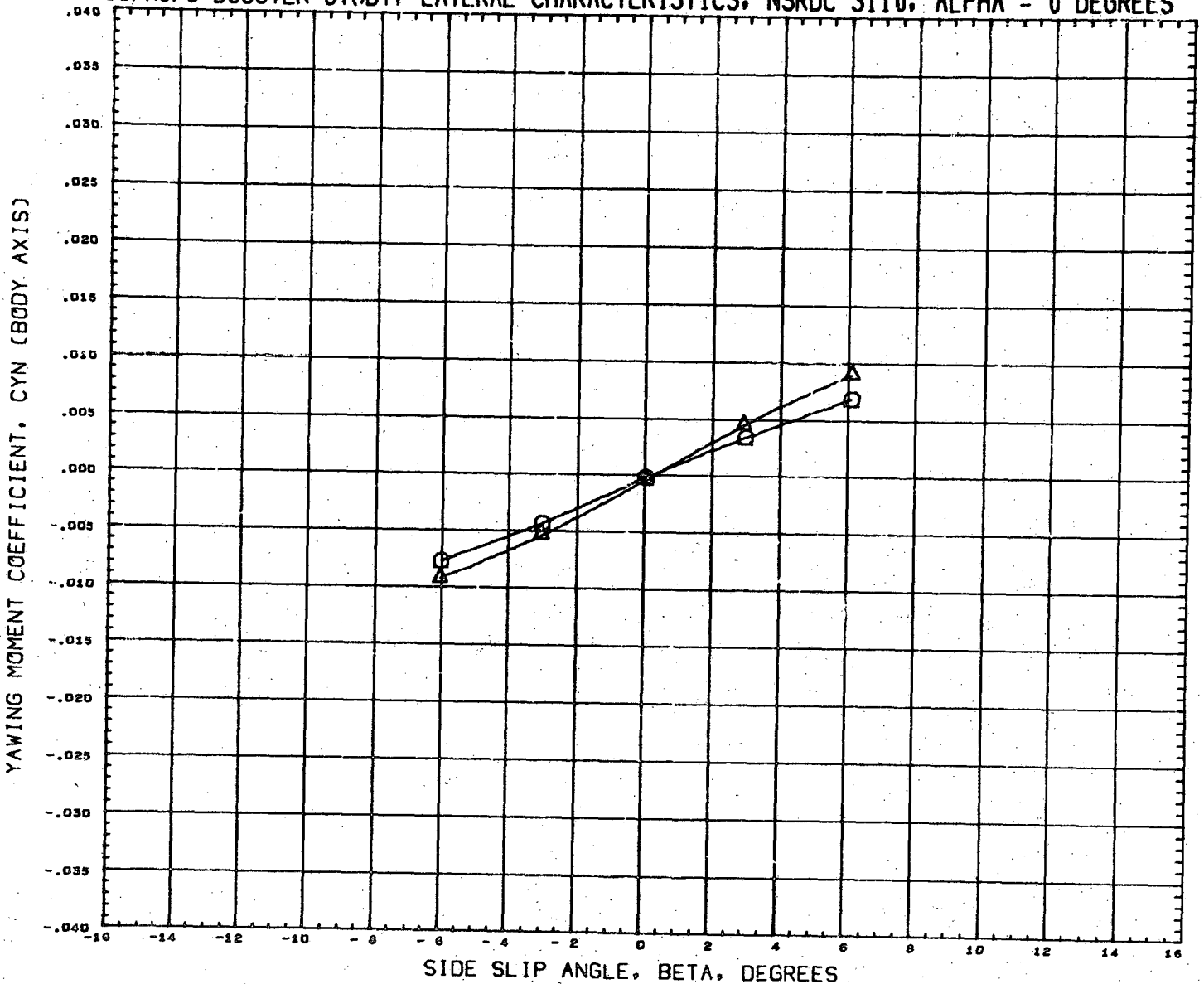
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.379

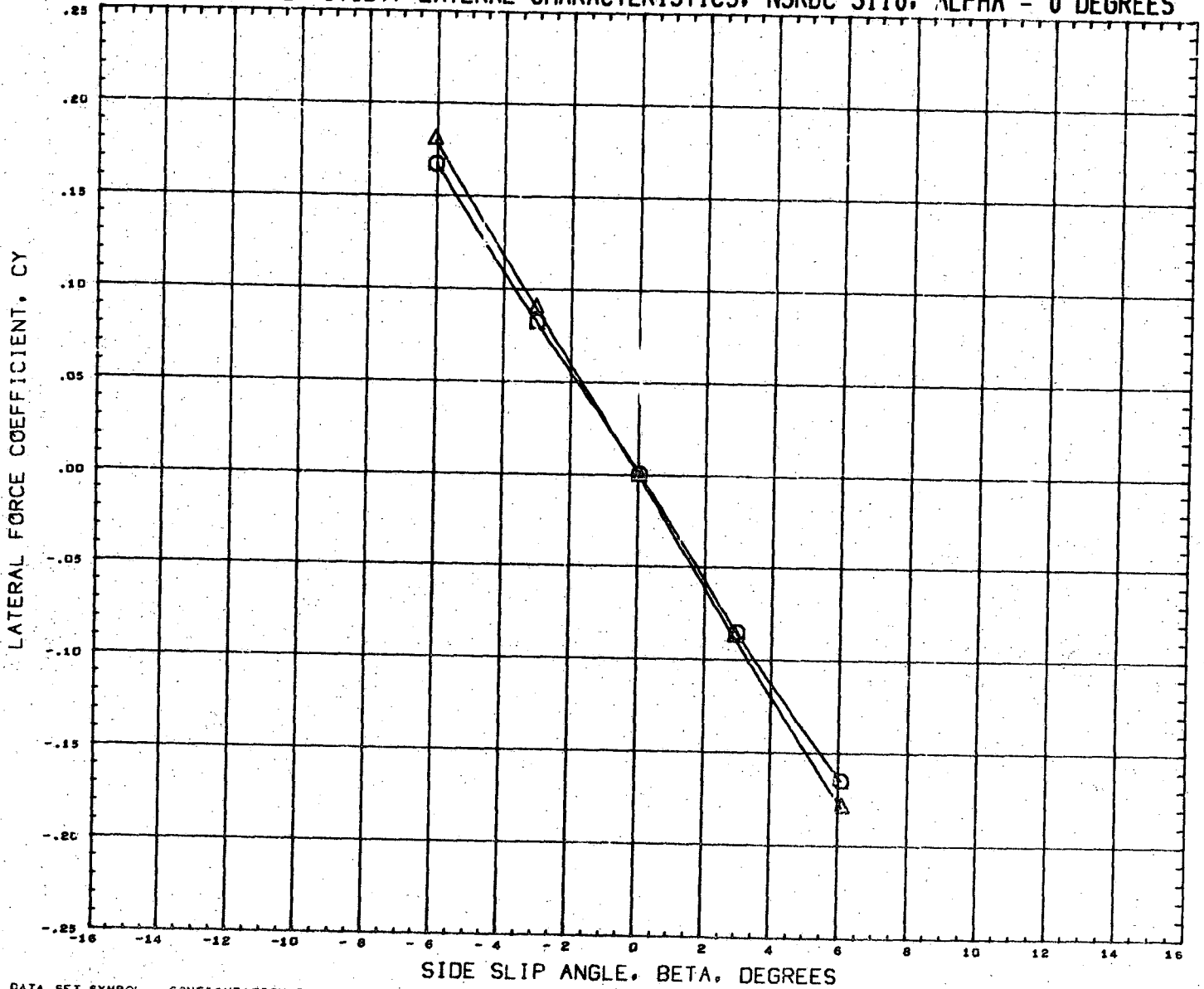
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2154)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2150)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.379

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2134) 
(RN2150) 

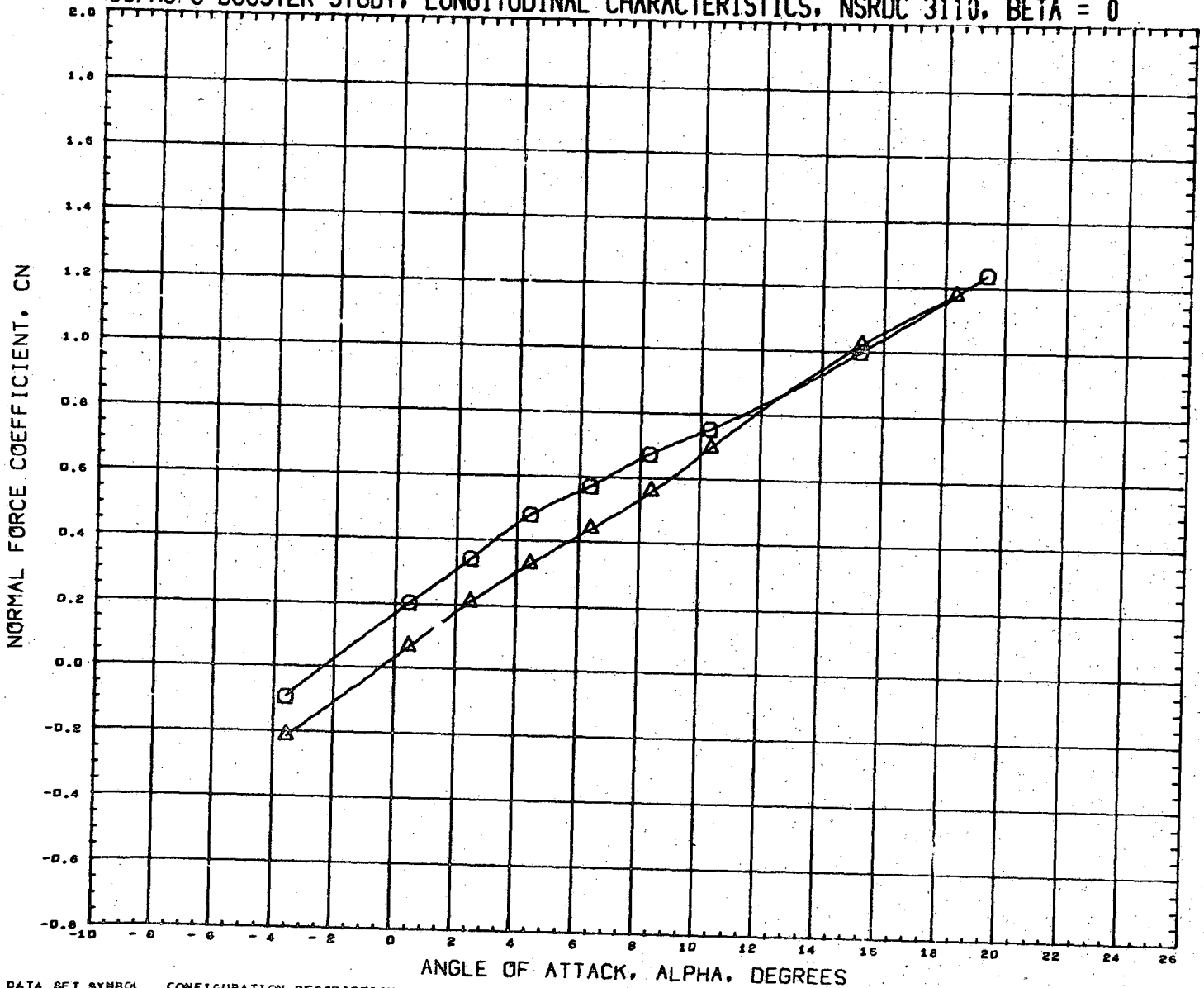
CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER, B1C1F1W1V2D1
NSRDC-3110,MSFC/LMSC BOOSTER, B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNCPOS
15.000	1.000	0.000	1.000
15.000	1.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

M/CH 0.379

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2141)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
(RN2157)	NSRDC-311C, MSFC/LMSC BOOSTER B1C1F1W1V2D1

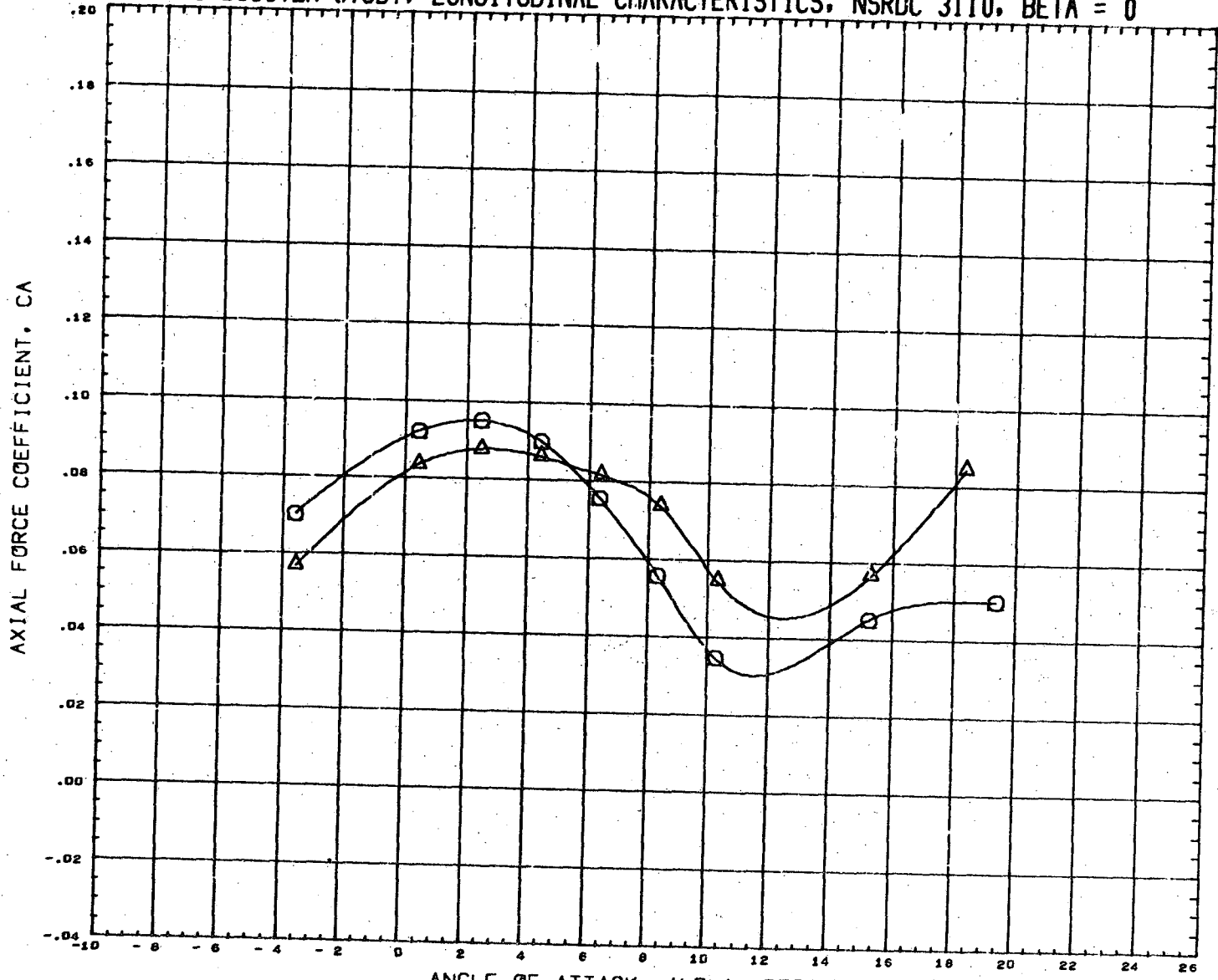
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.380

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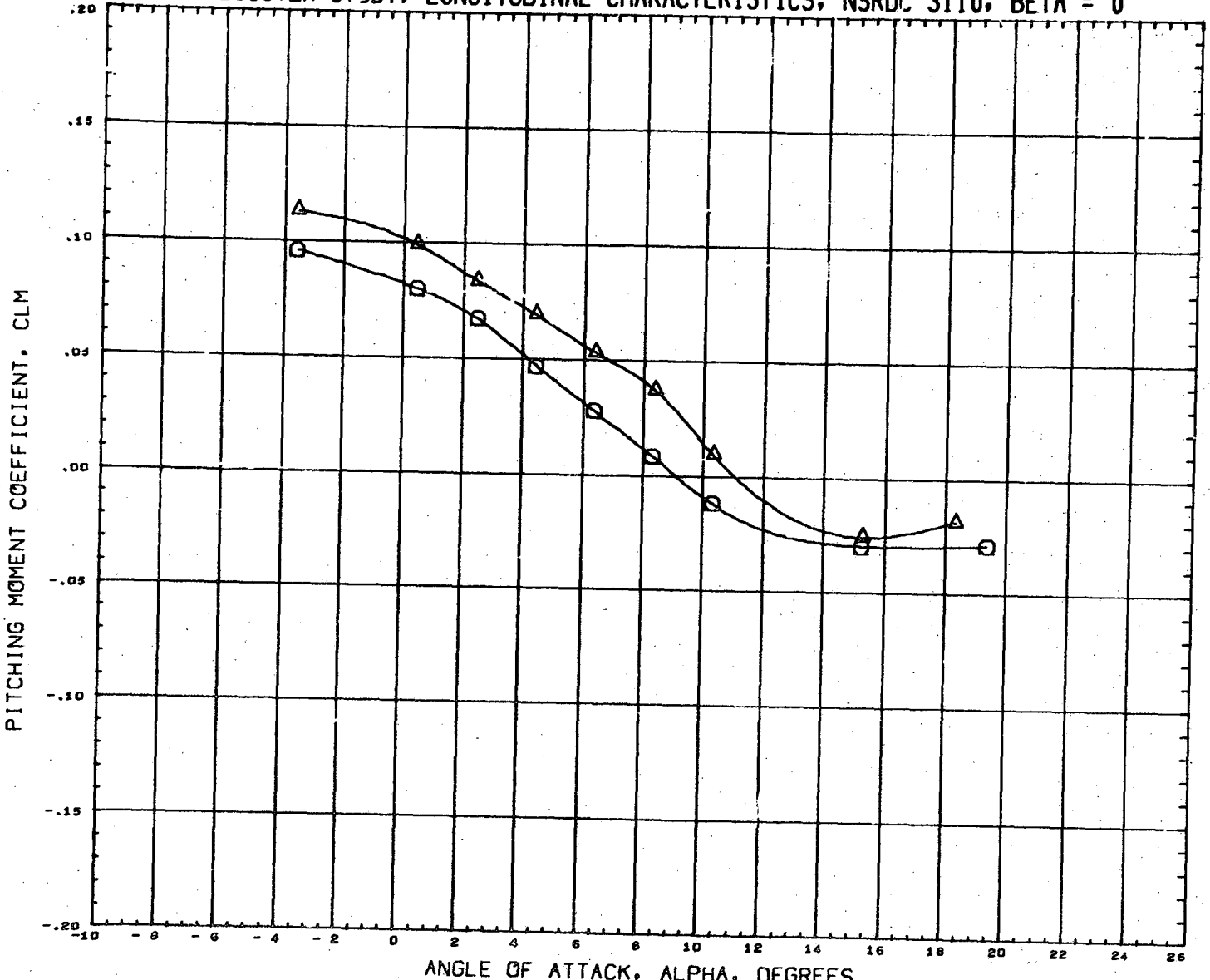
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2141)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2157)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

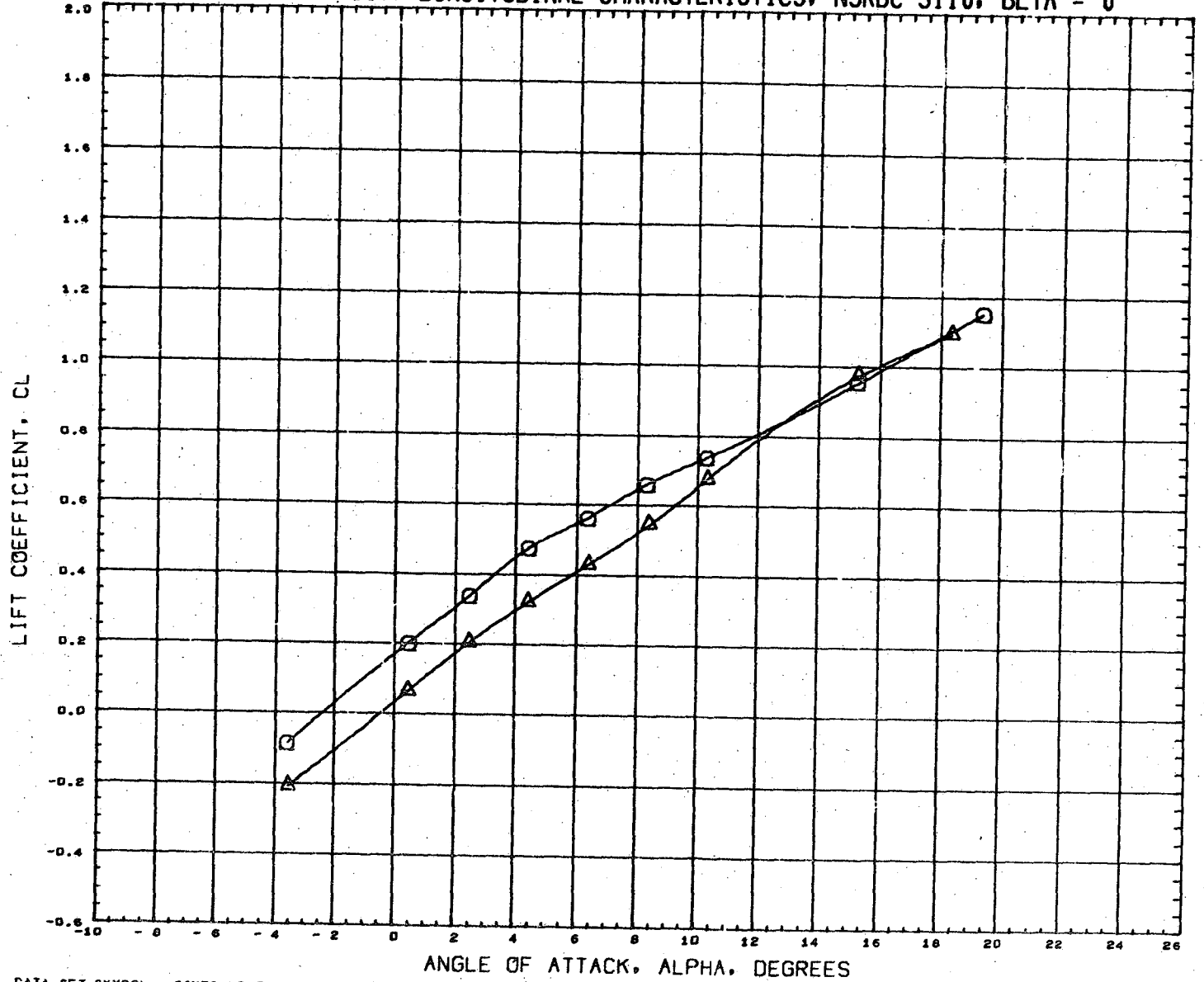


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2141)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2157)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

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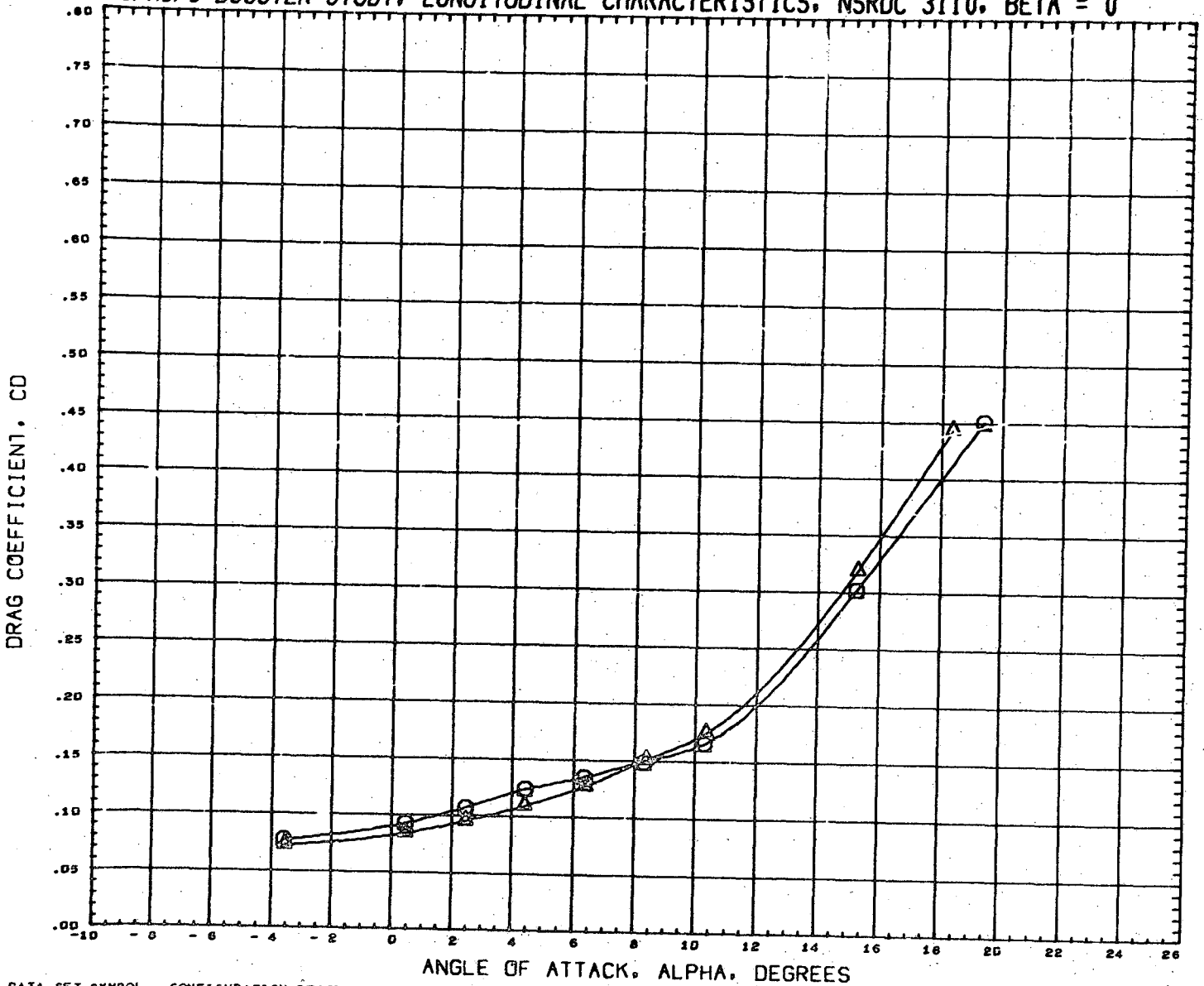
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2141)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2157)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XNRP 31.1400 INCHES
						YNRP 0.0000 INCHES
						ZNRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2141)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2157)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XNRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

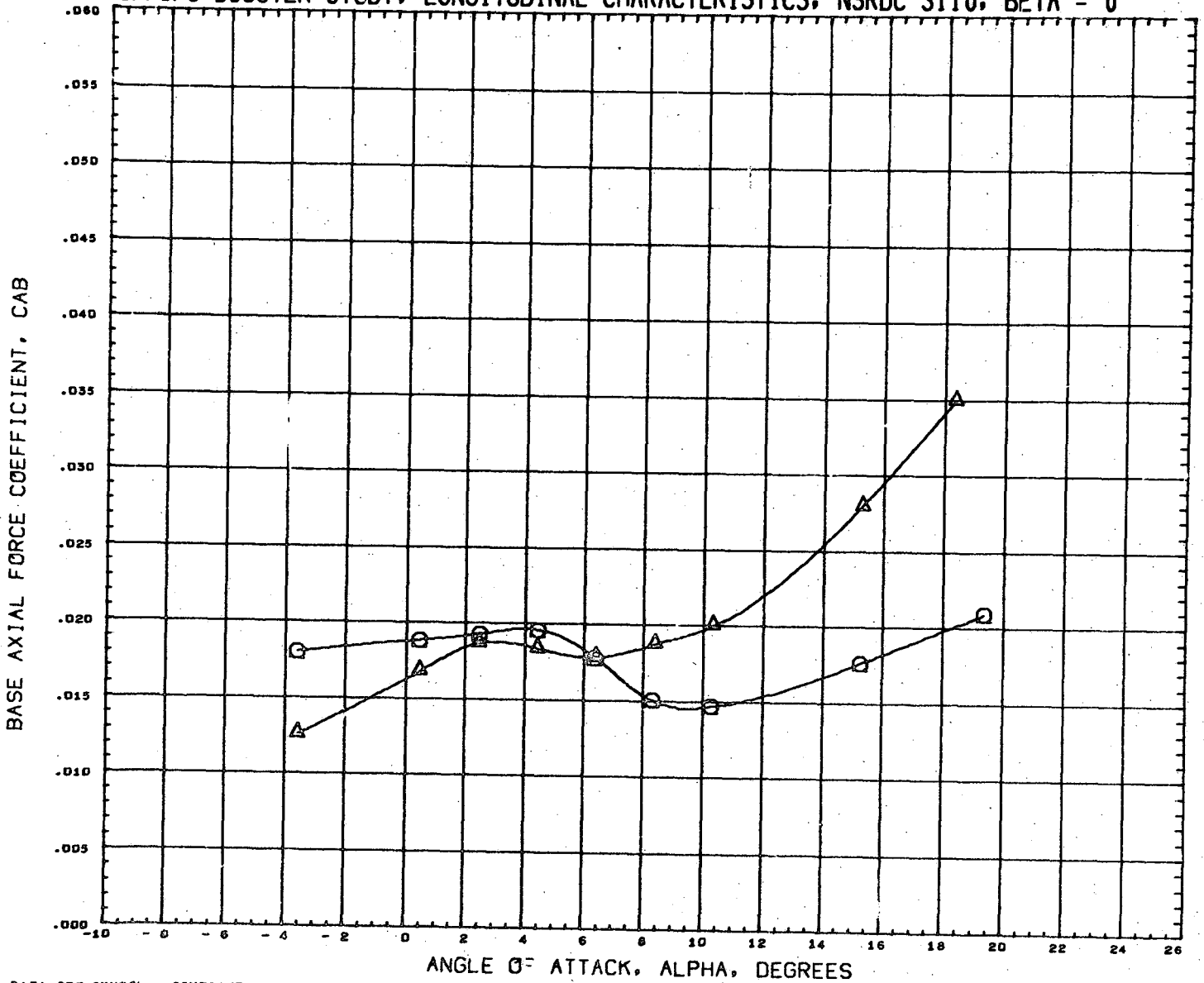
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2141)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ.FT.
(RN2157)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

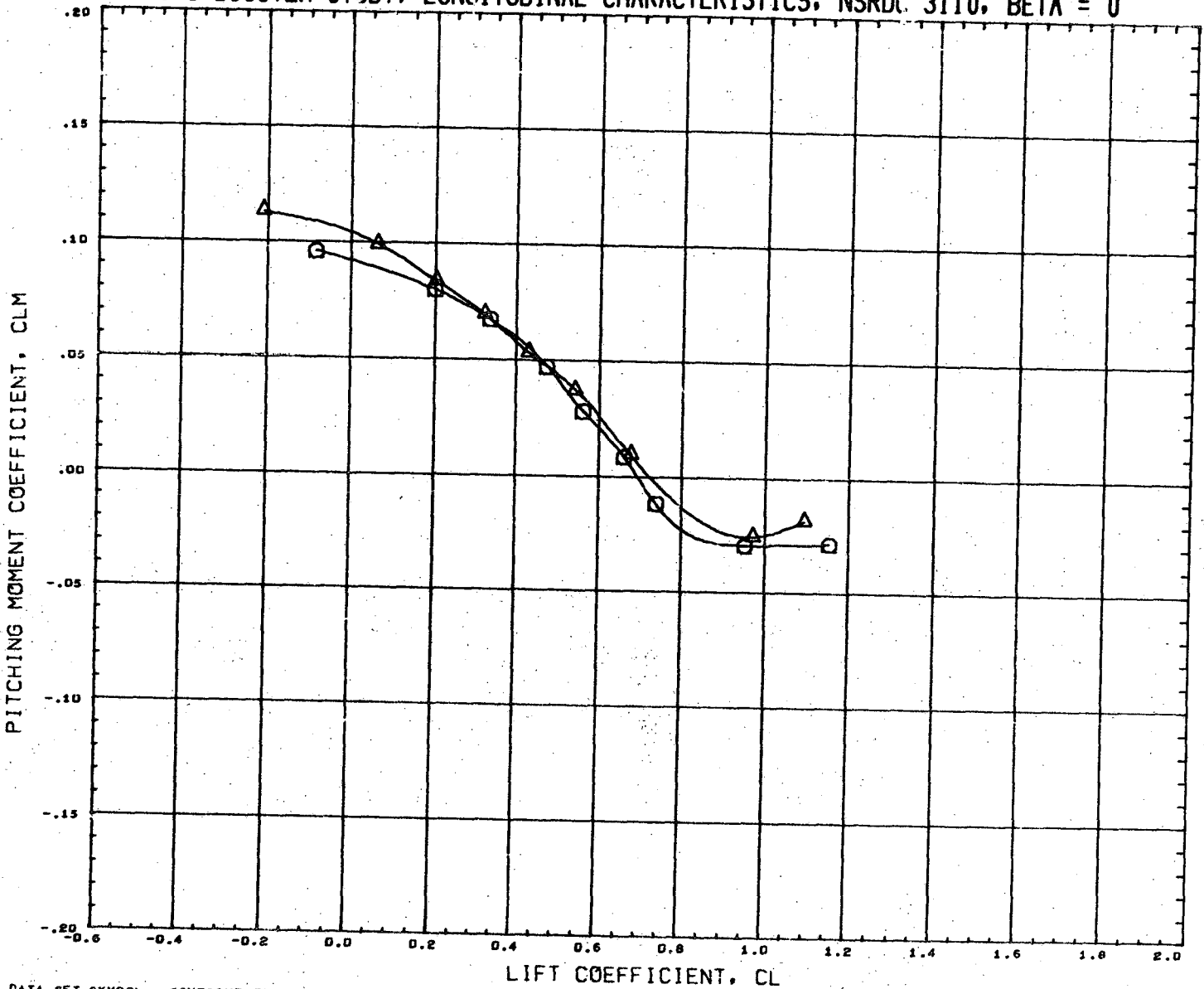
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2141)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 30. FT.
(RN2157)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

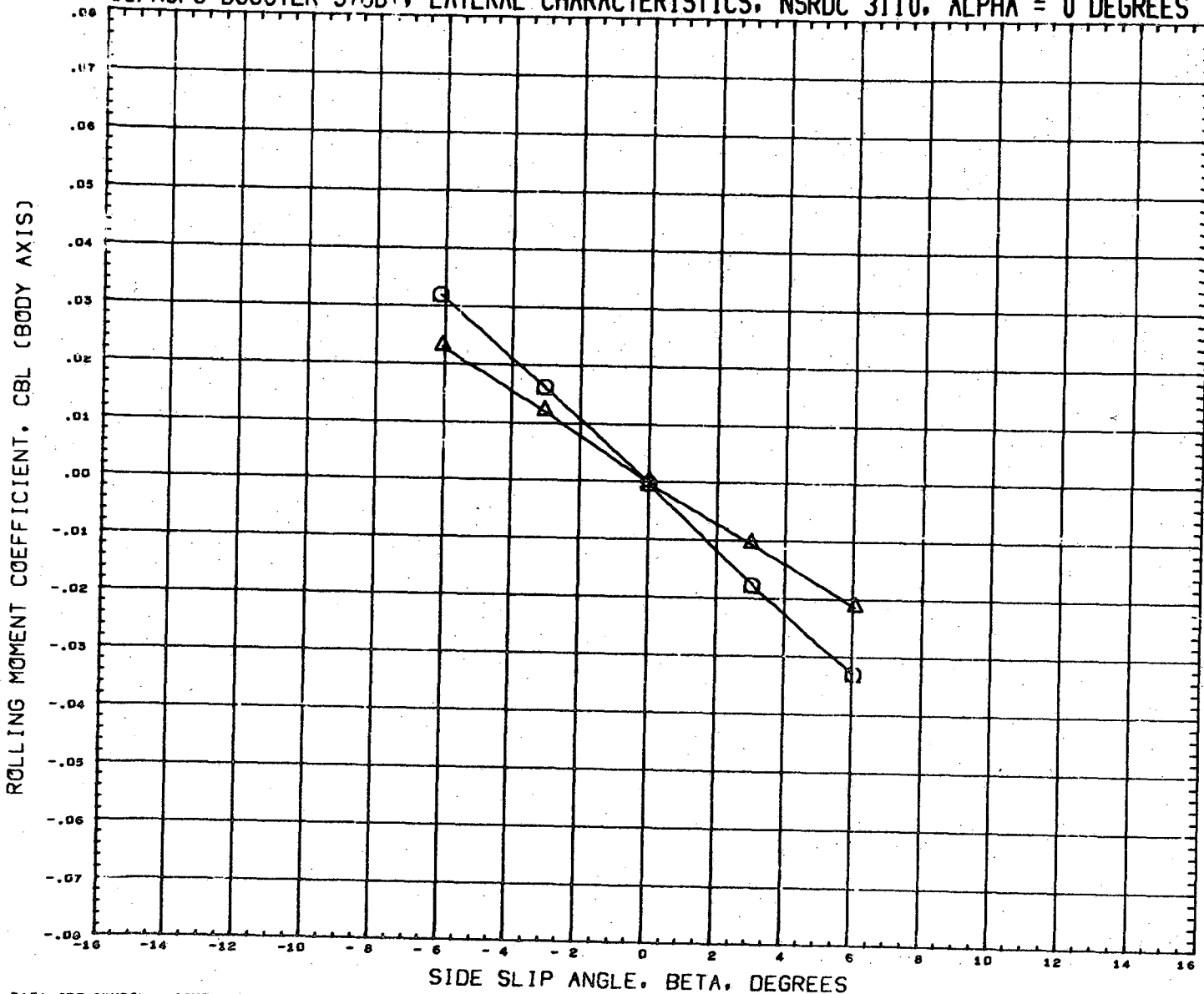
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2141)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2157)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4361 INCHES
						BREF 41.4361 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2142)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	SREF 1.3550 SQ. FT.
(RN2158)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

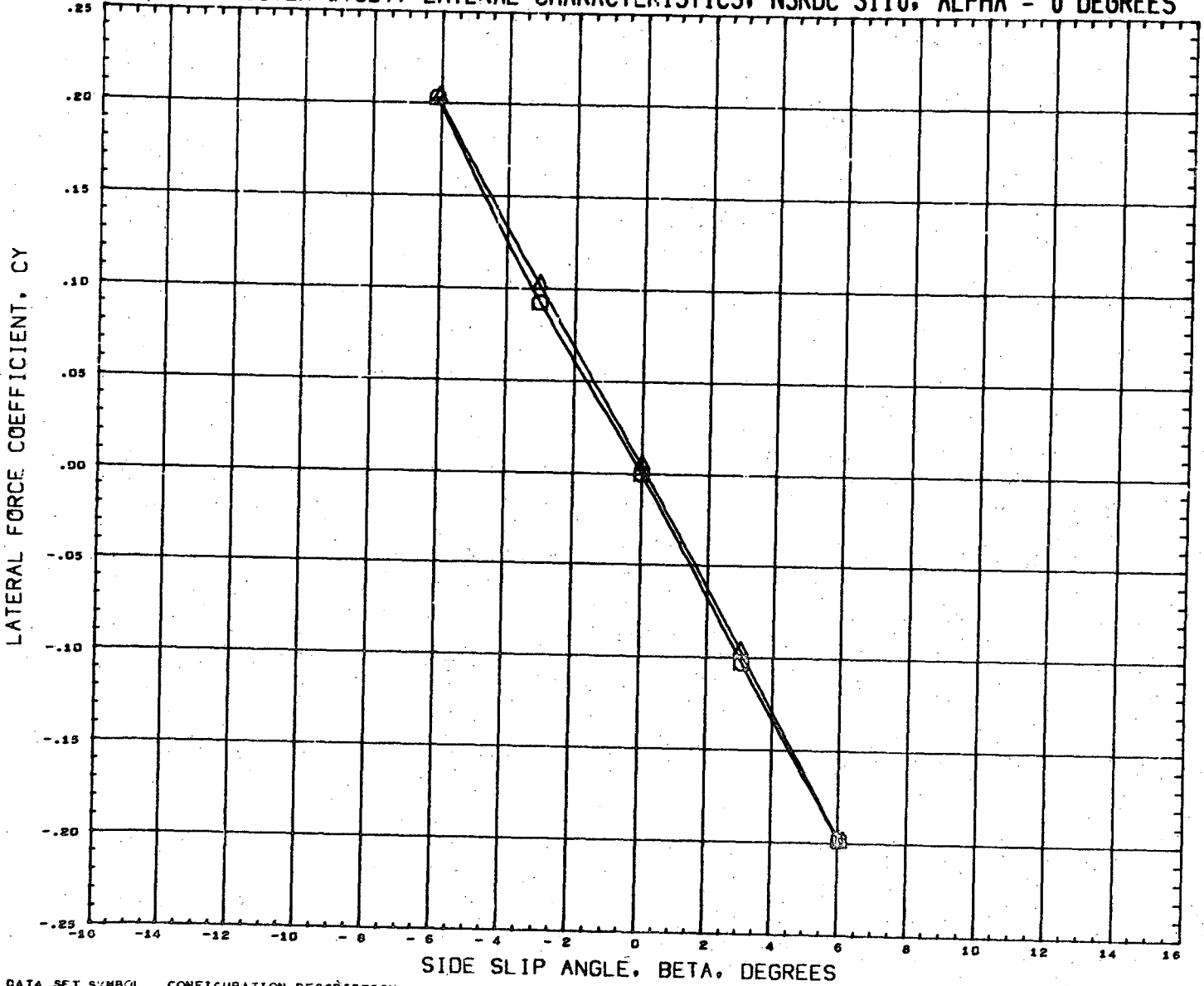
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES




DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2142)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	1.000	SREF	1.3550 SQ.FT.
(RN2158)	NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	0.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YNRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RM2142) 
(RM2159)

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

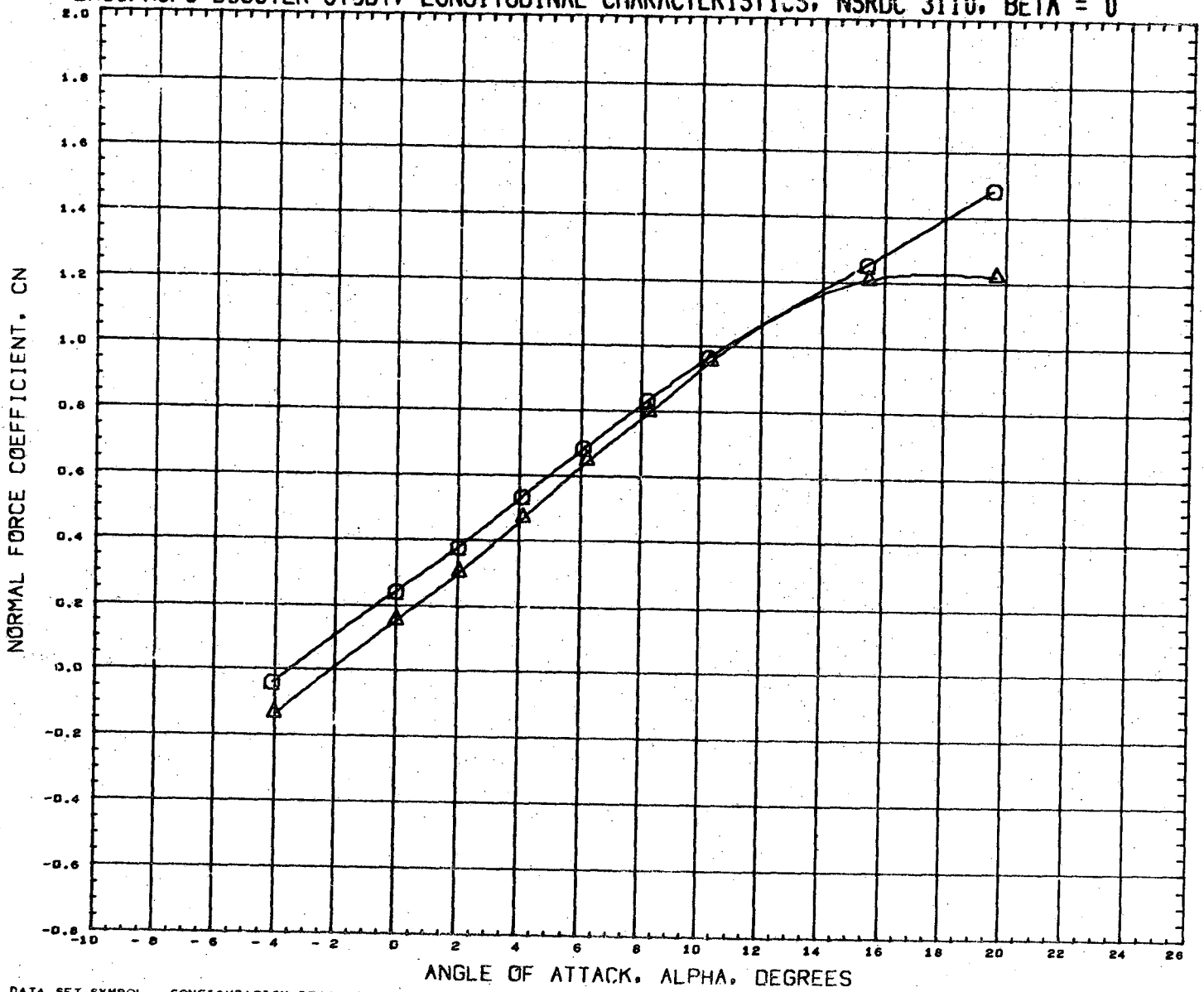
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	0.000	1.000
15.000	2.000	0.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCNT

MACH 0.380

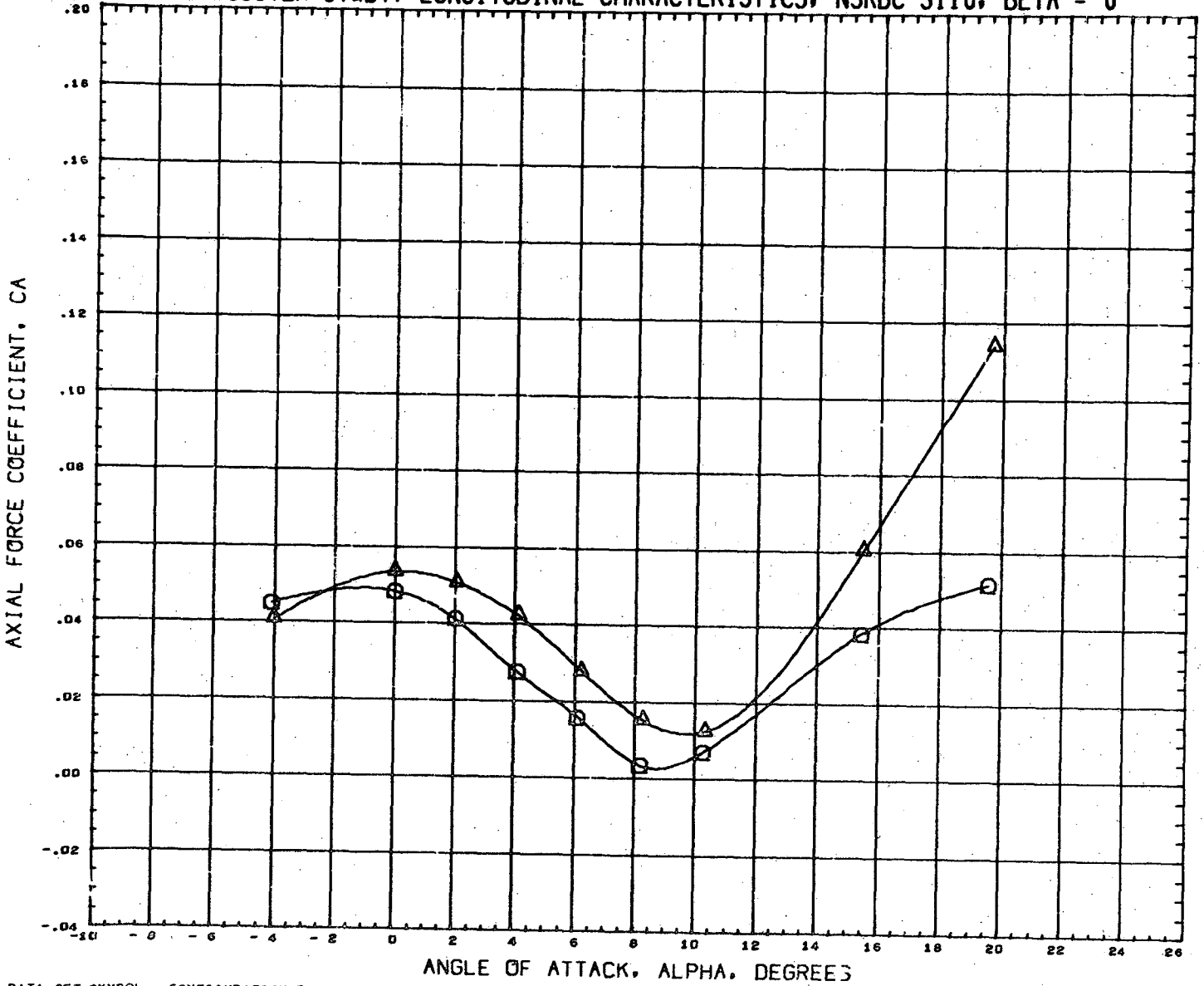
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2097)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2113)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.383

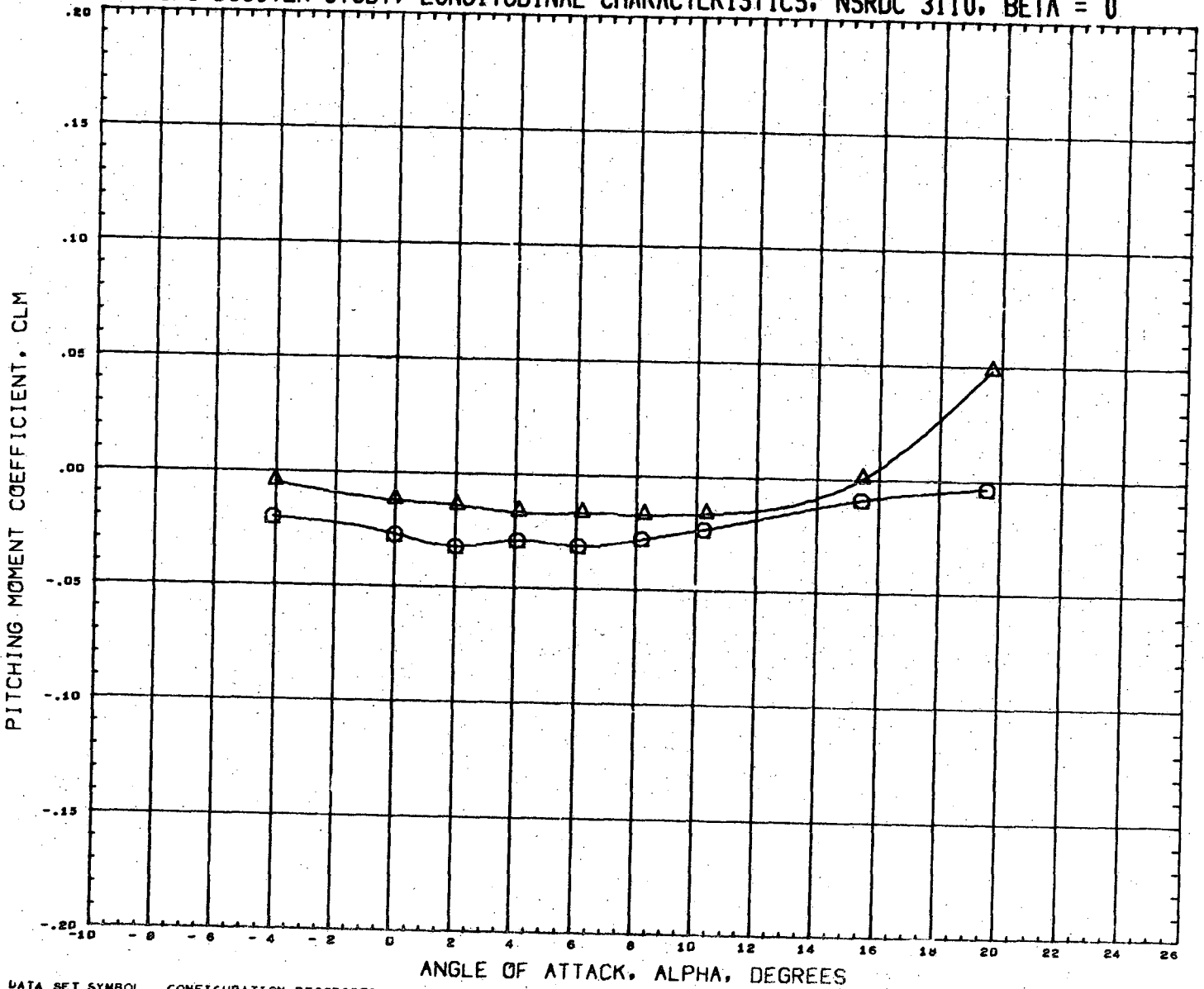
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2097)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2113)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2097) Q
(RN2115) A

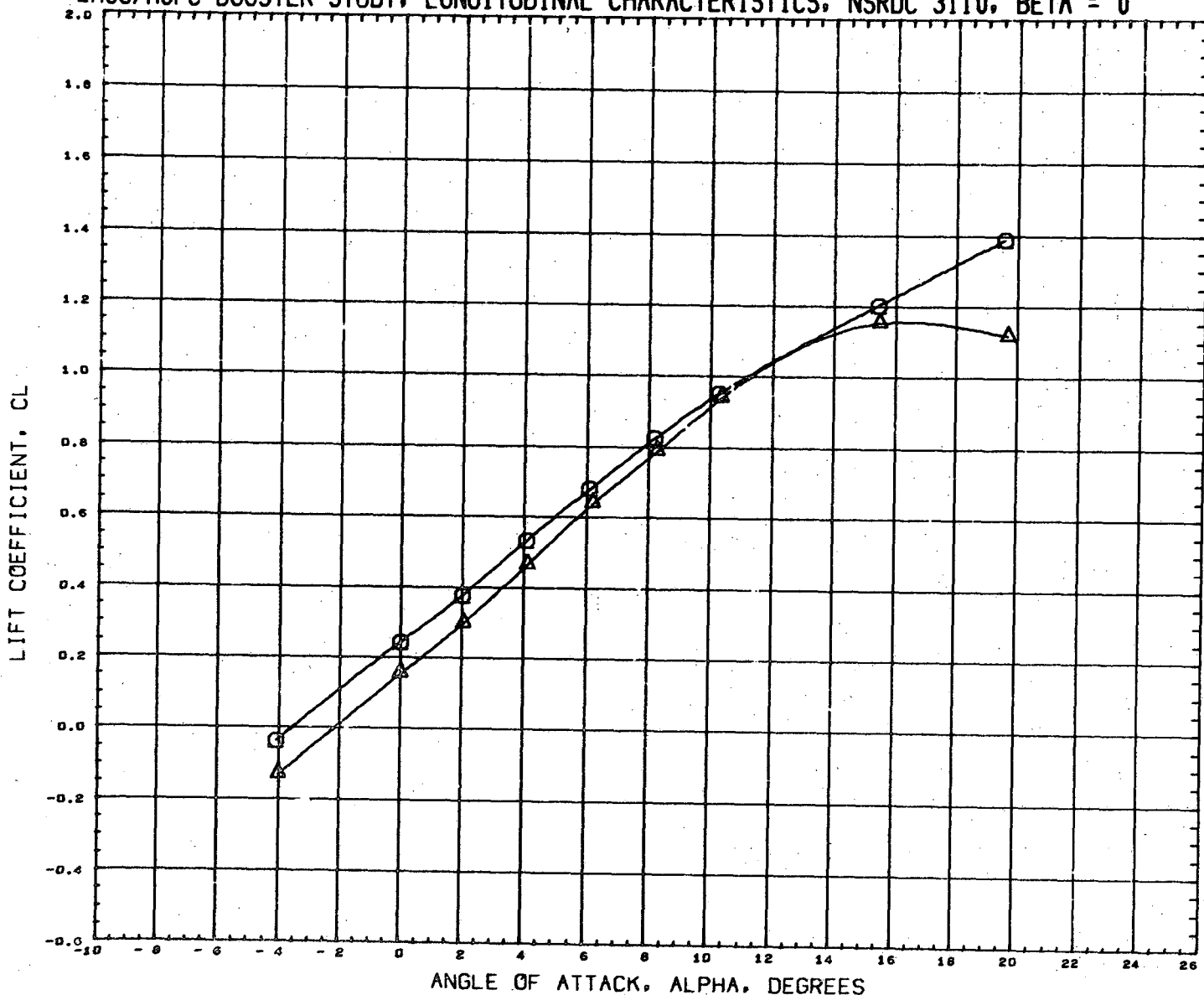
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRRP	31.1400 INCHES
YMRRP	0.0000 INCHES
ZMRRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.383

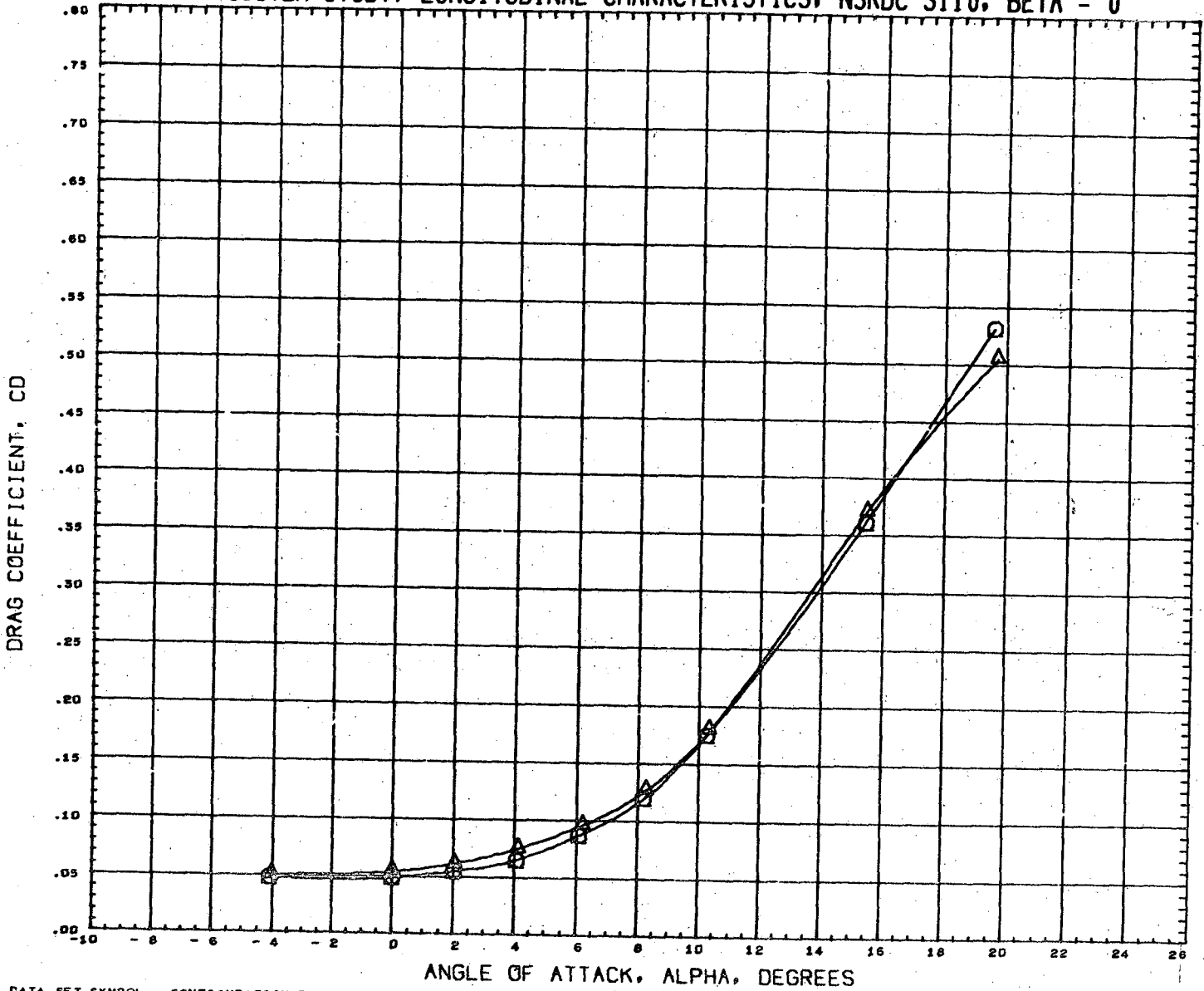
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2097)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2113)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

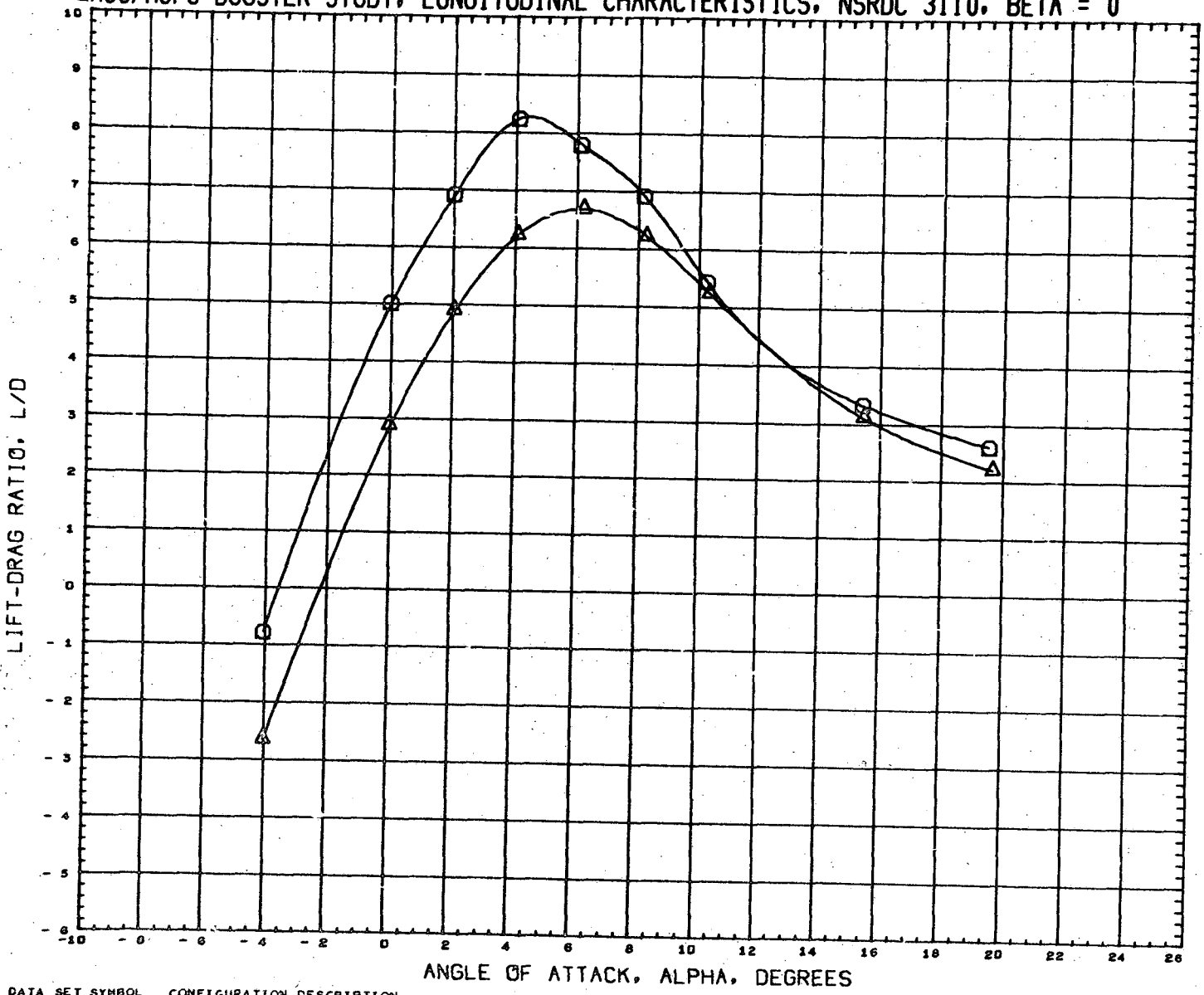


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2097)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2113)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
3.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
3.000	1.000	3.000	2.000	LREF	41.4360 INCHES
				BREF	41.4360 INCHES
				XMRP	31.1400 INCHES
				YMRP	0.0000 INCHES
				ZMRP	0.2250 INCHES
				SCALE	1.5000 PERCNT

MACH 0.363

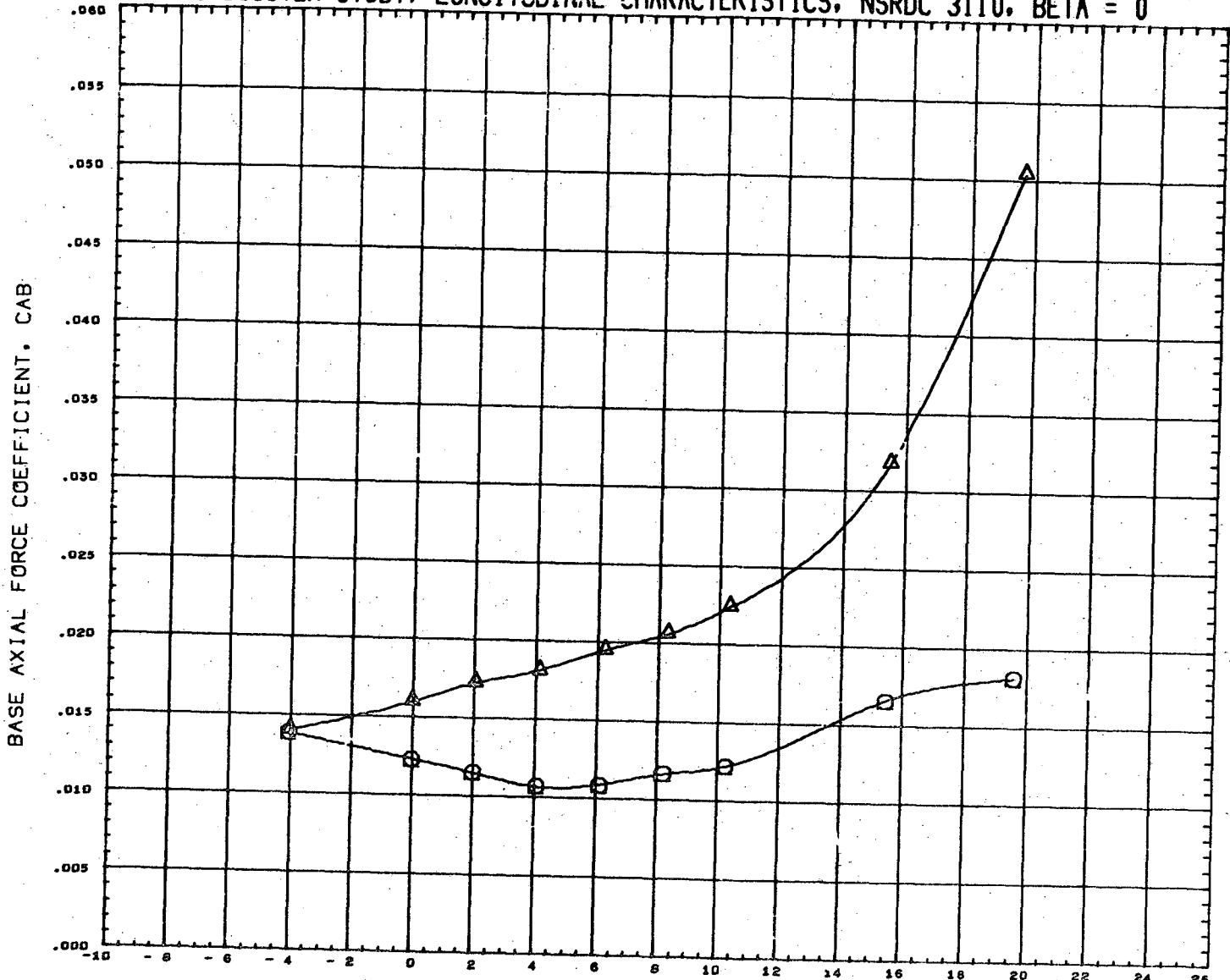
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2097)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2113)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

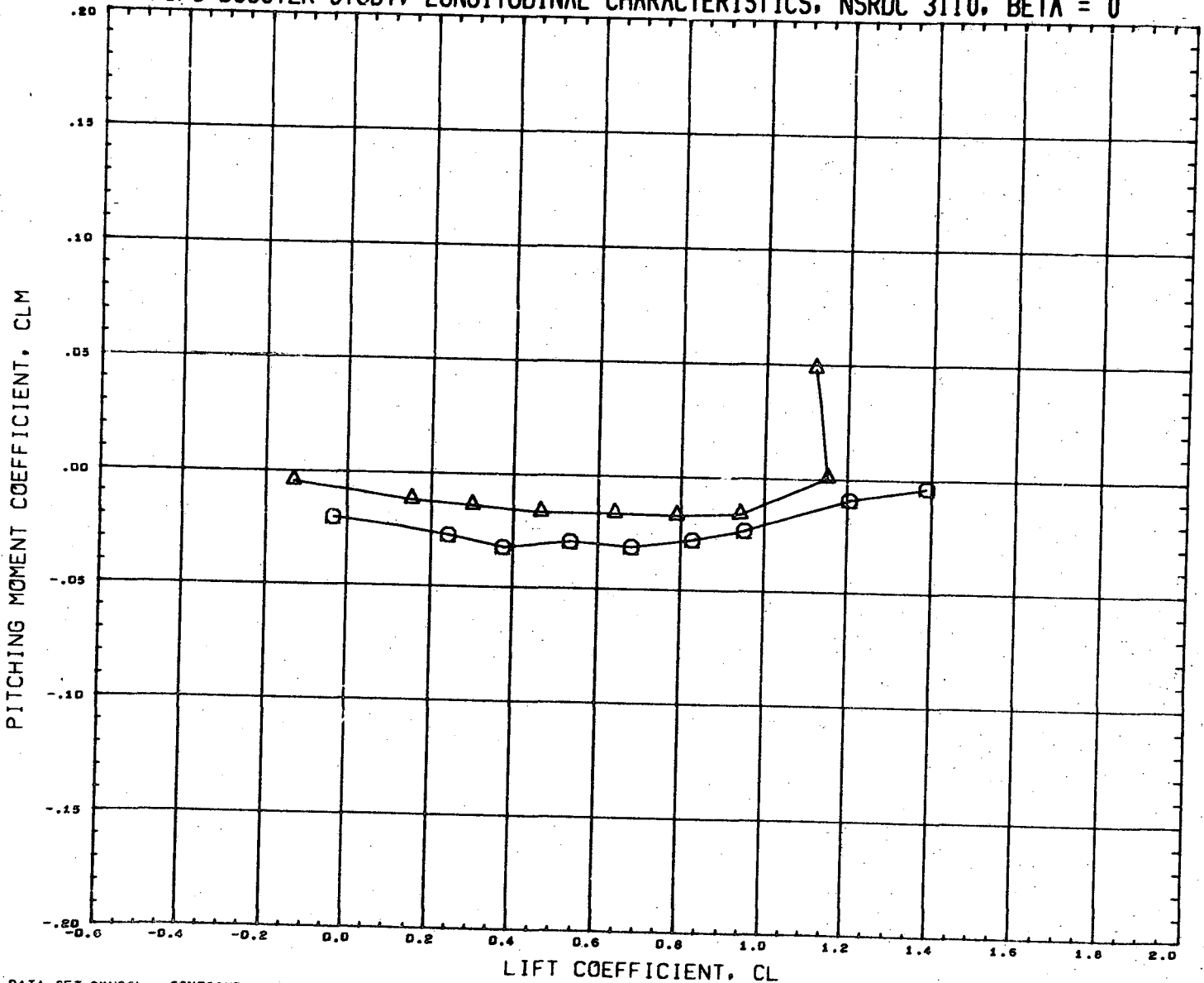
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2097)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF 5.3550 SQ.FT.
(RN2113)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 51.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

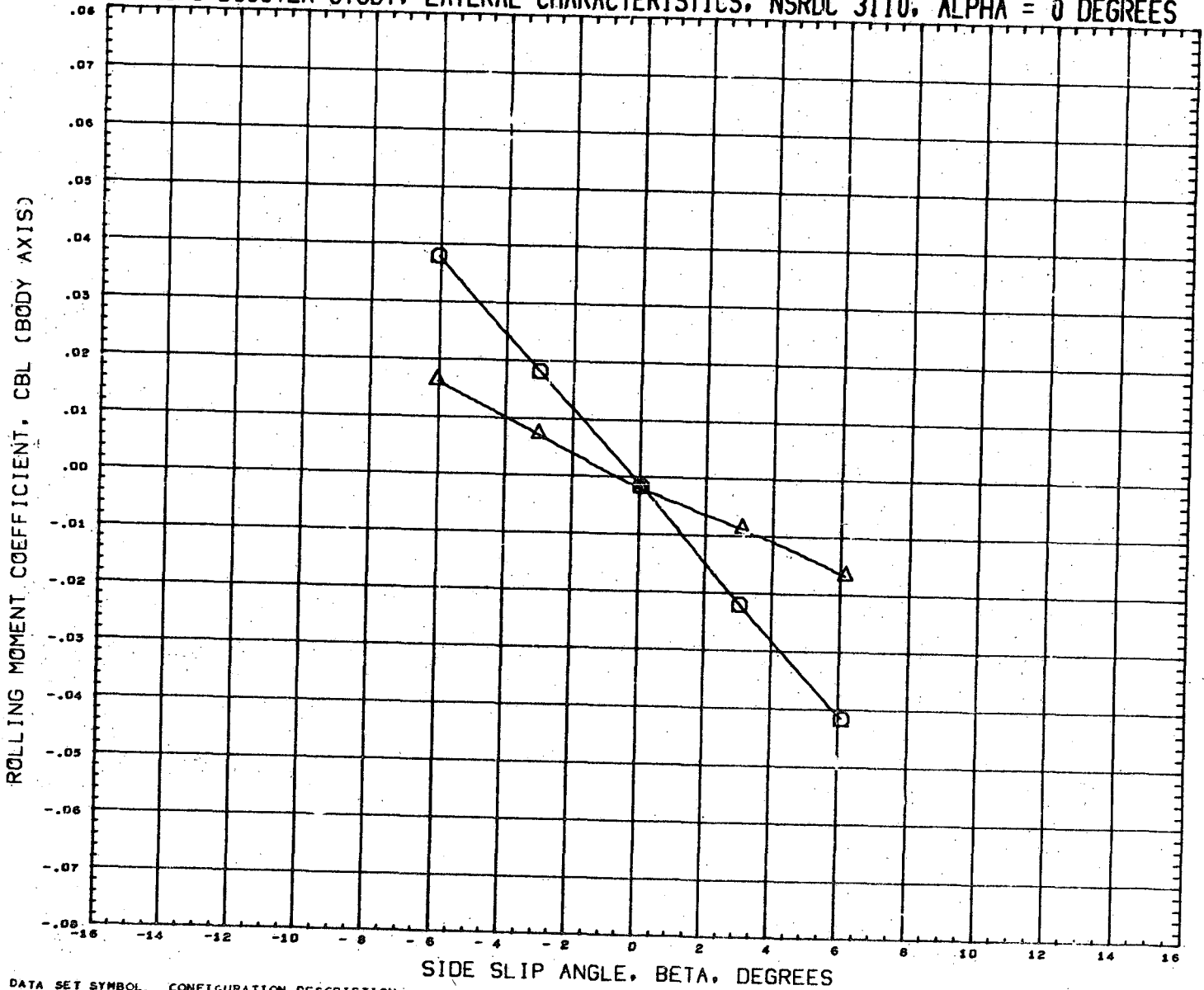
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2097)	NSRDC-3110,MSFC/LH5C BOOSTER B1C1F1W1V1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2113)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



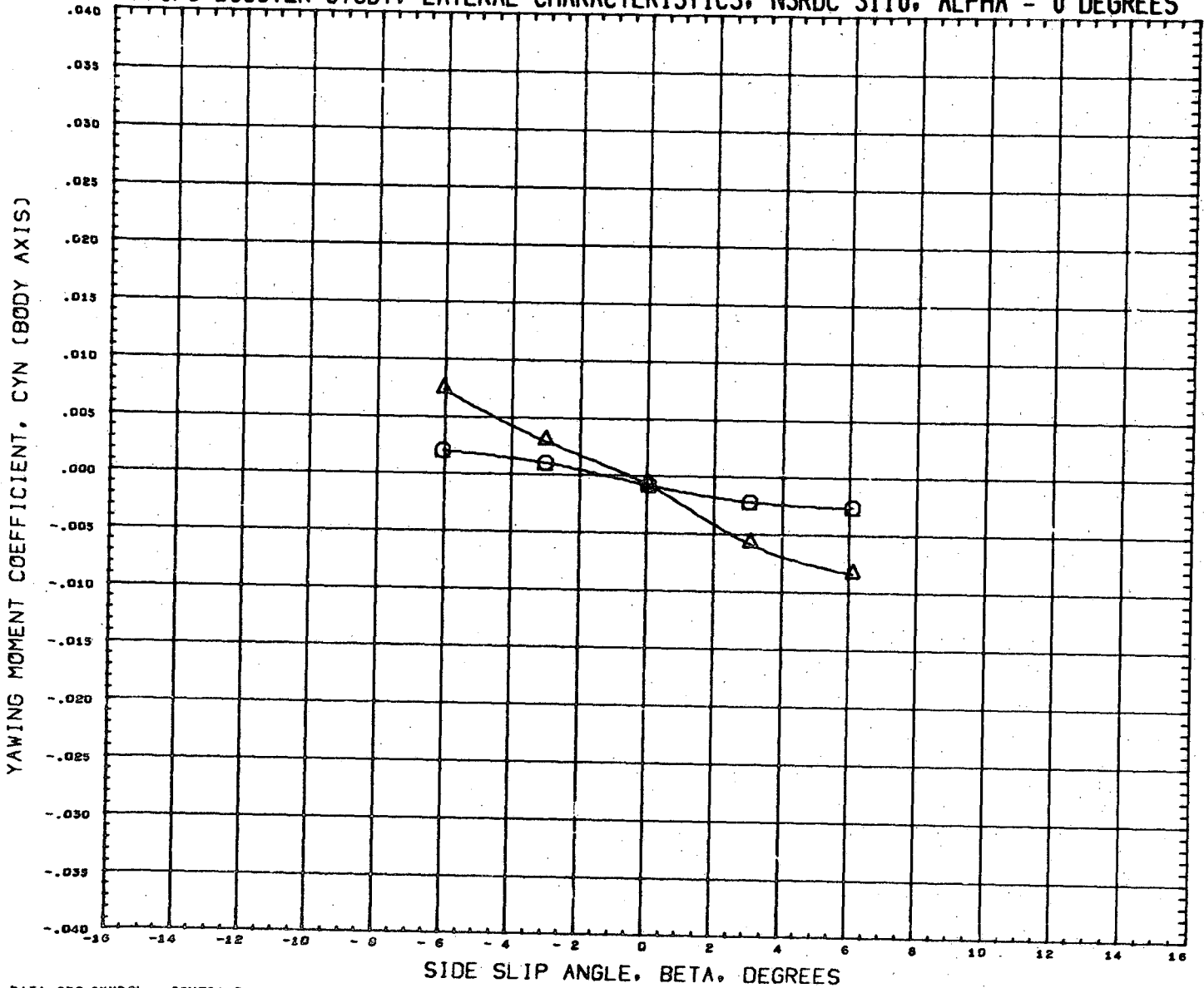
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2098) NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
 (RN2114) NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2098) \circ
(RN2114) \triangle

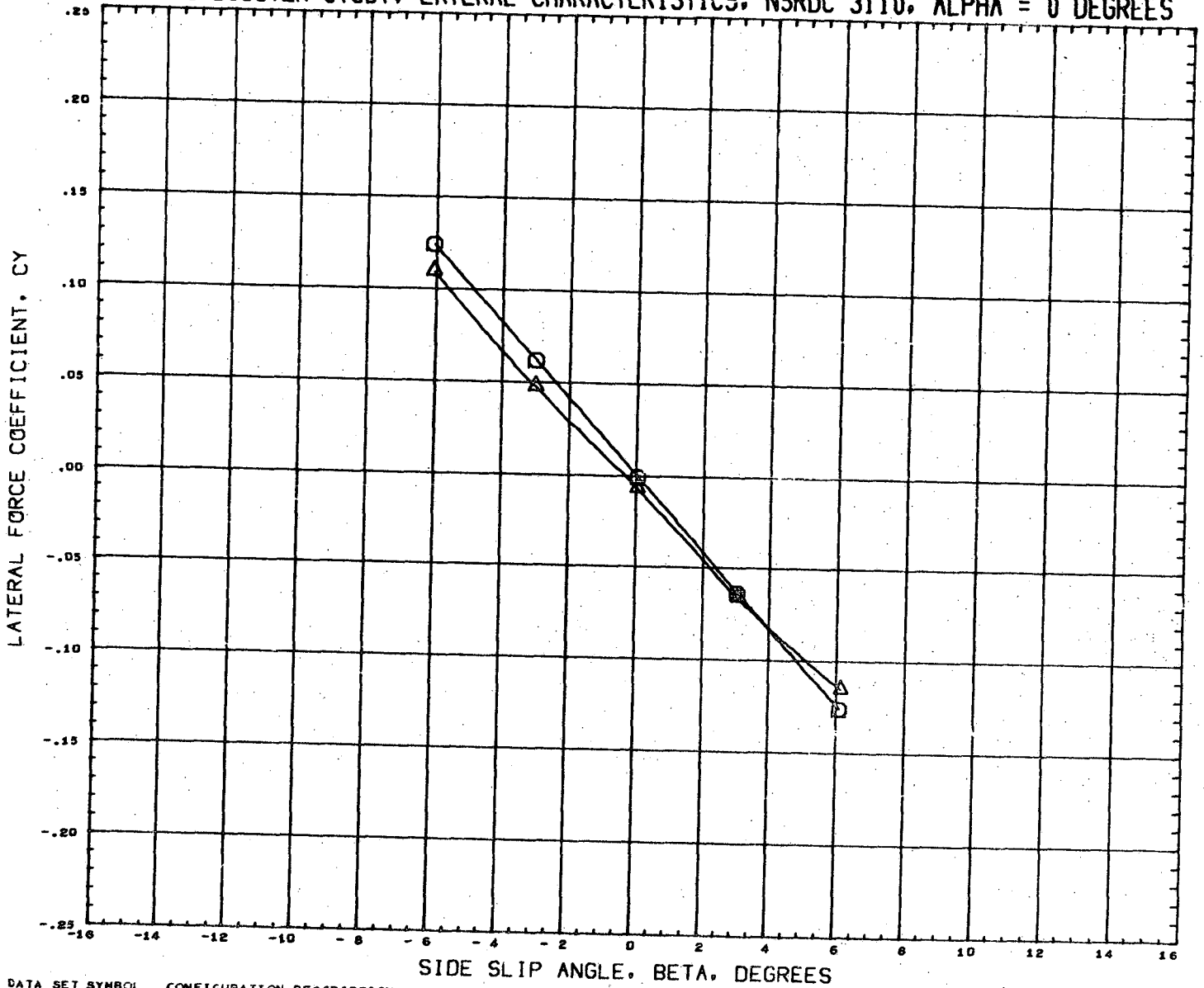
CONFIGURATION DESCRIPTION
NSRDC-3110, HSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, HSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2098) \circ
(RN2114) \triangle

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

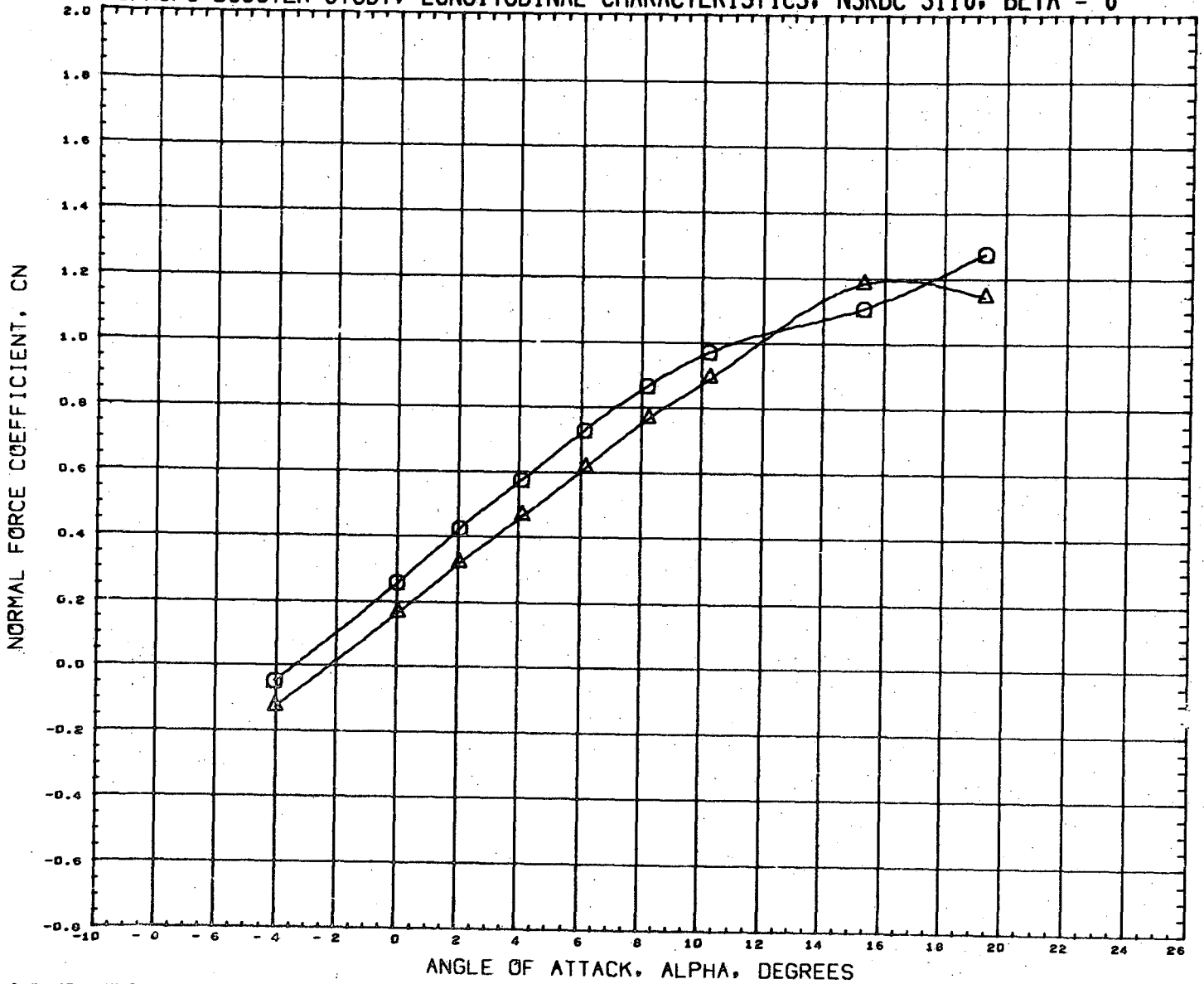
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.381

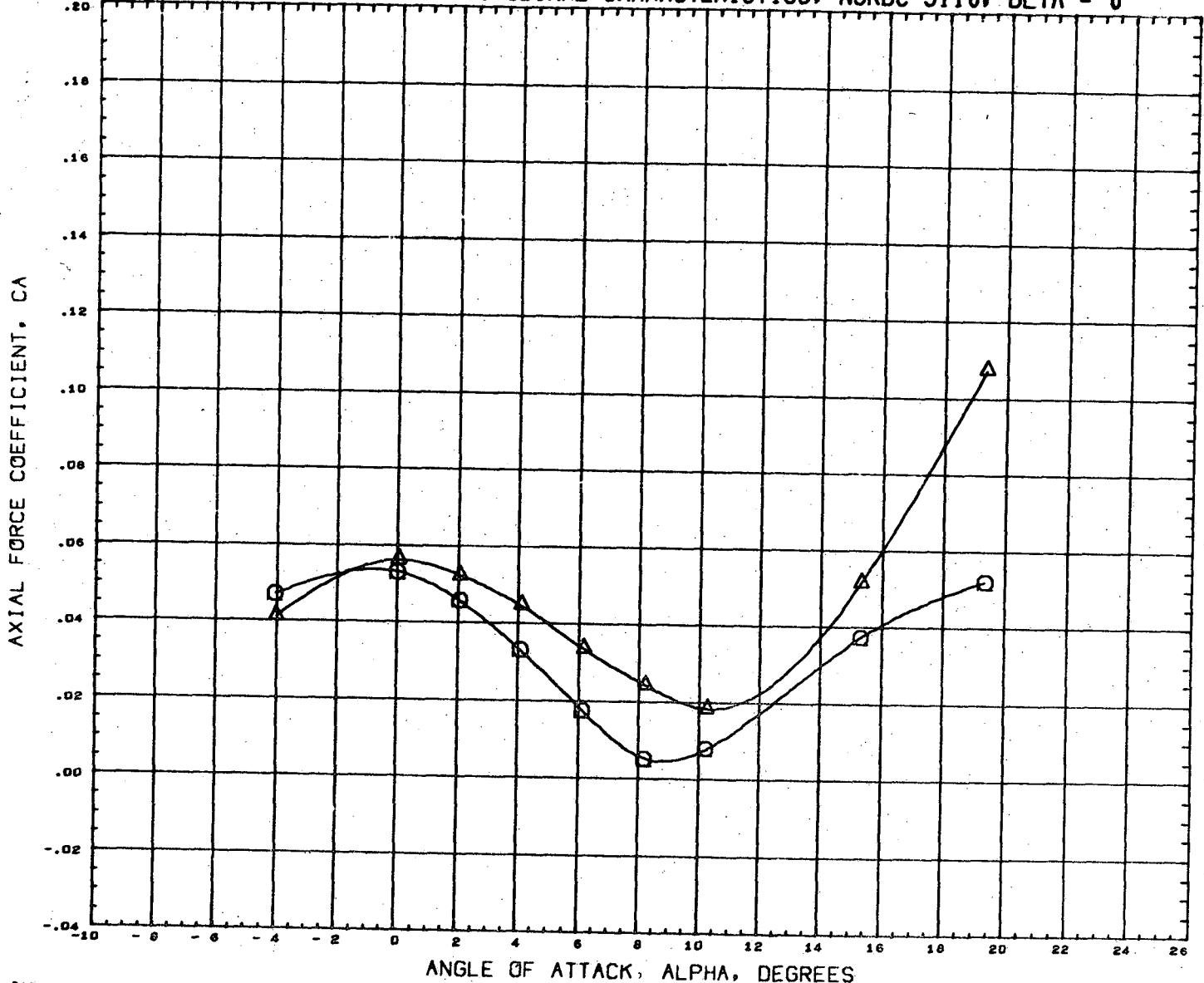
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2105)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2121)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

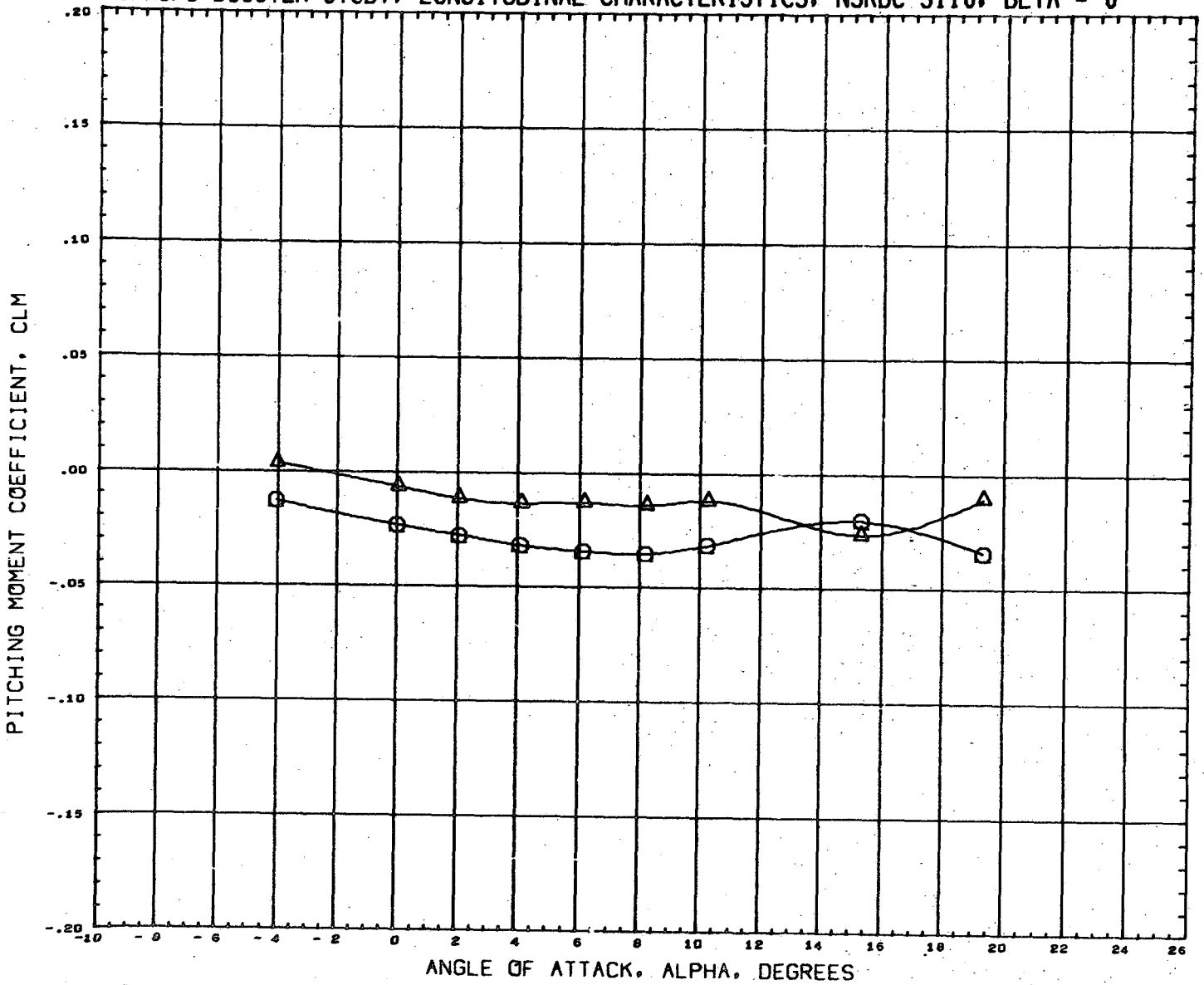
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2105)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2121)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

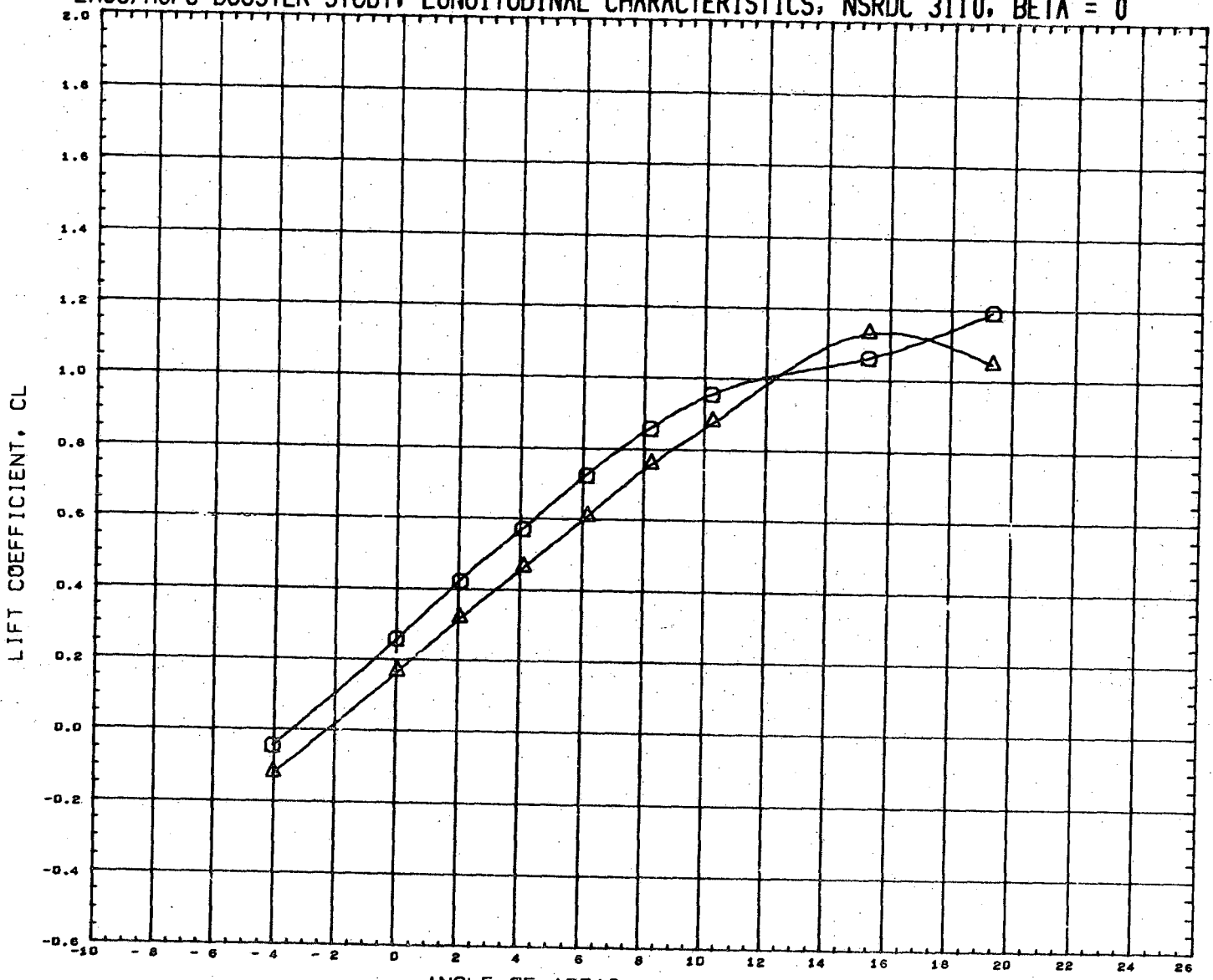
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2105)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF	1.3550 SQ. FT.
(RN2121)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

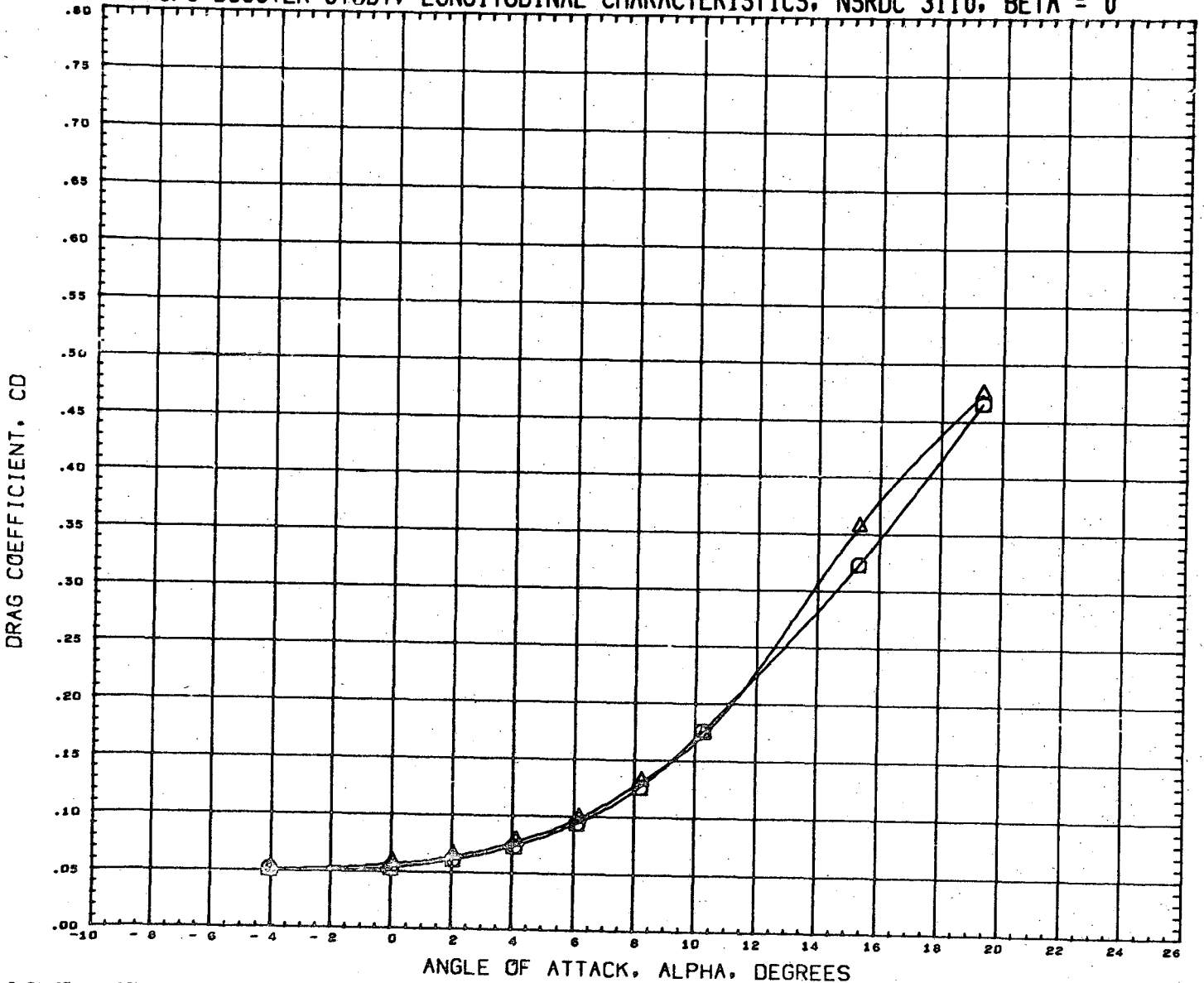
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2105)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2121)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2105) \circ
(RN2121) \triangle

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

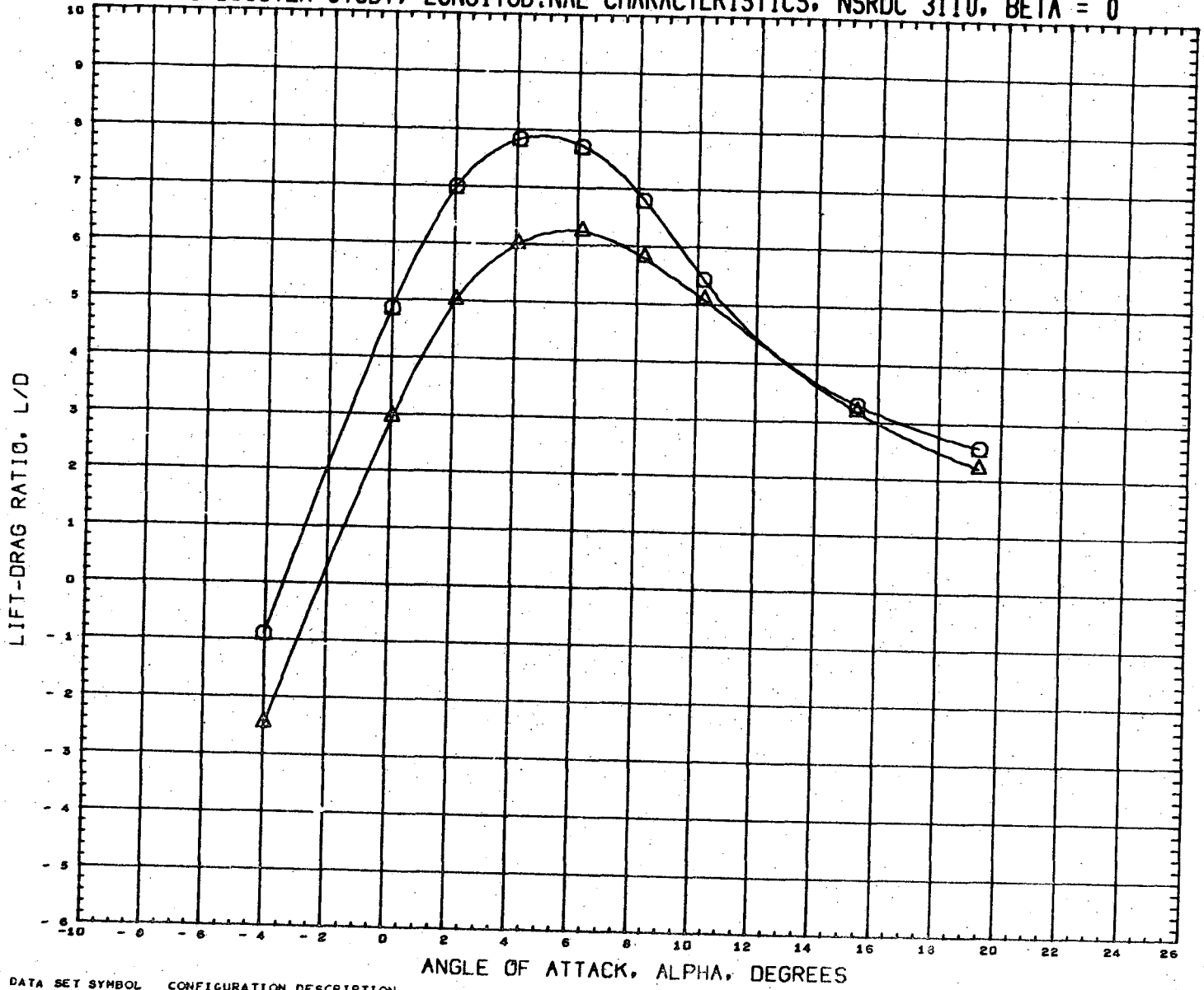
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.301

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



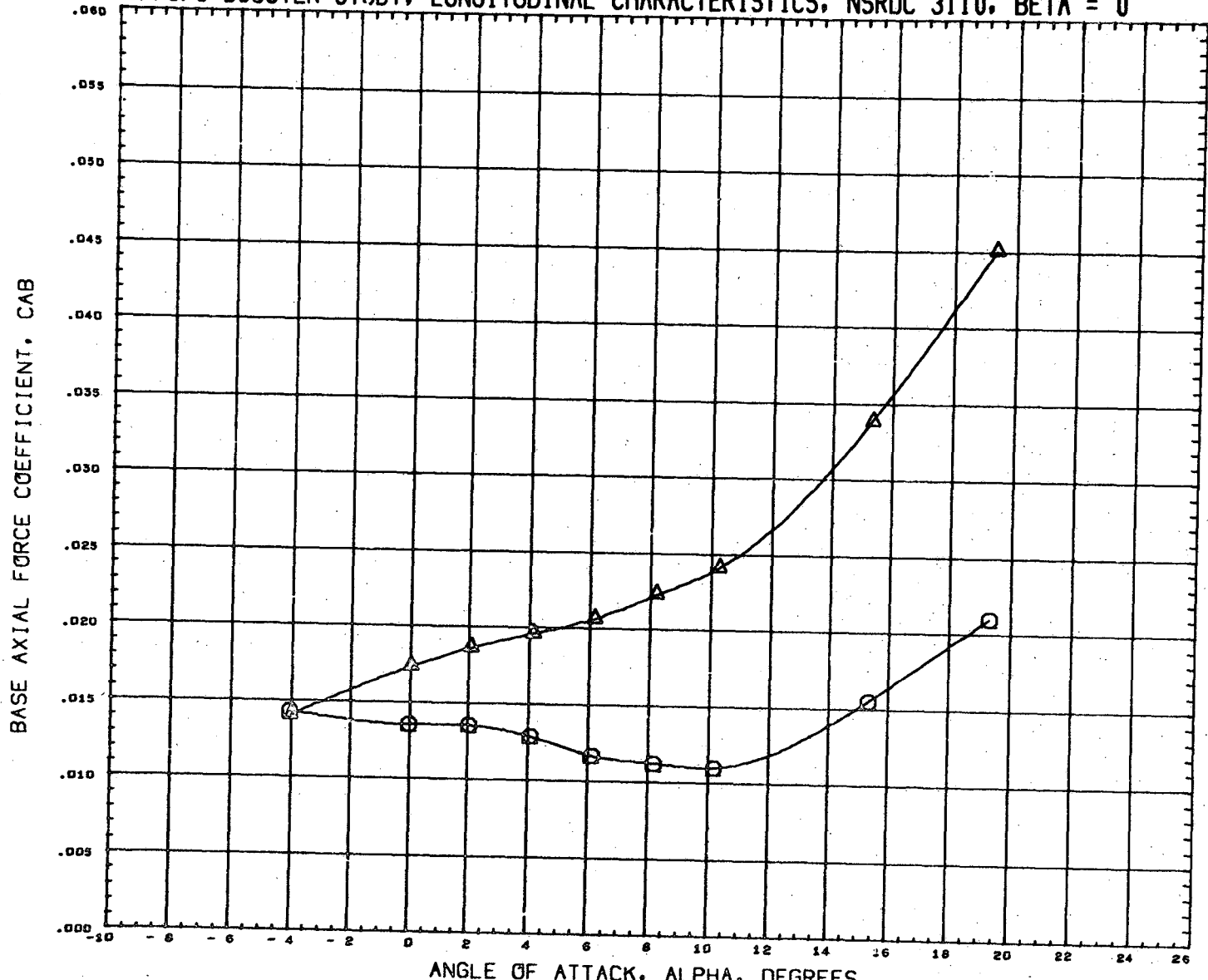
DATA SET SYMBOL (RN2105) (RN2121) CONFIGURATION DESCRIPTION NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1 NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC 3.000 3.000 CNDFOS 2.000 2.000 INCIDW 3.000 3.000 WNGPOS 1.000 2.000

REFERENCE INFORMATION SREF 1.3550 SQ.FT. LREF 41.4360 INCHES BREF 41.4330 INCHES XMRP 31.1400 INCHES YMRP 0.0000 INCHES ZMRP 0.2250 INCHES SCALE 1.5000 PERCNT

MACH 0.361

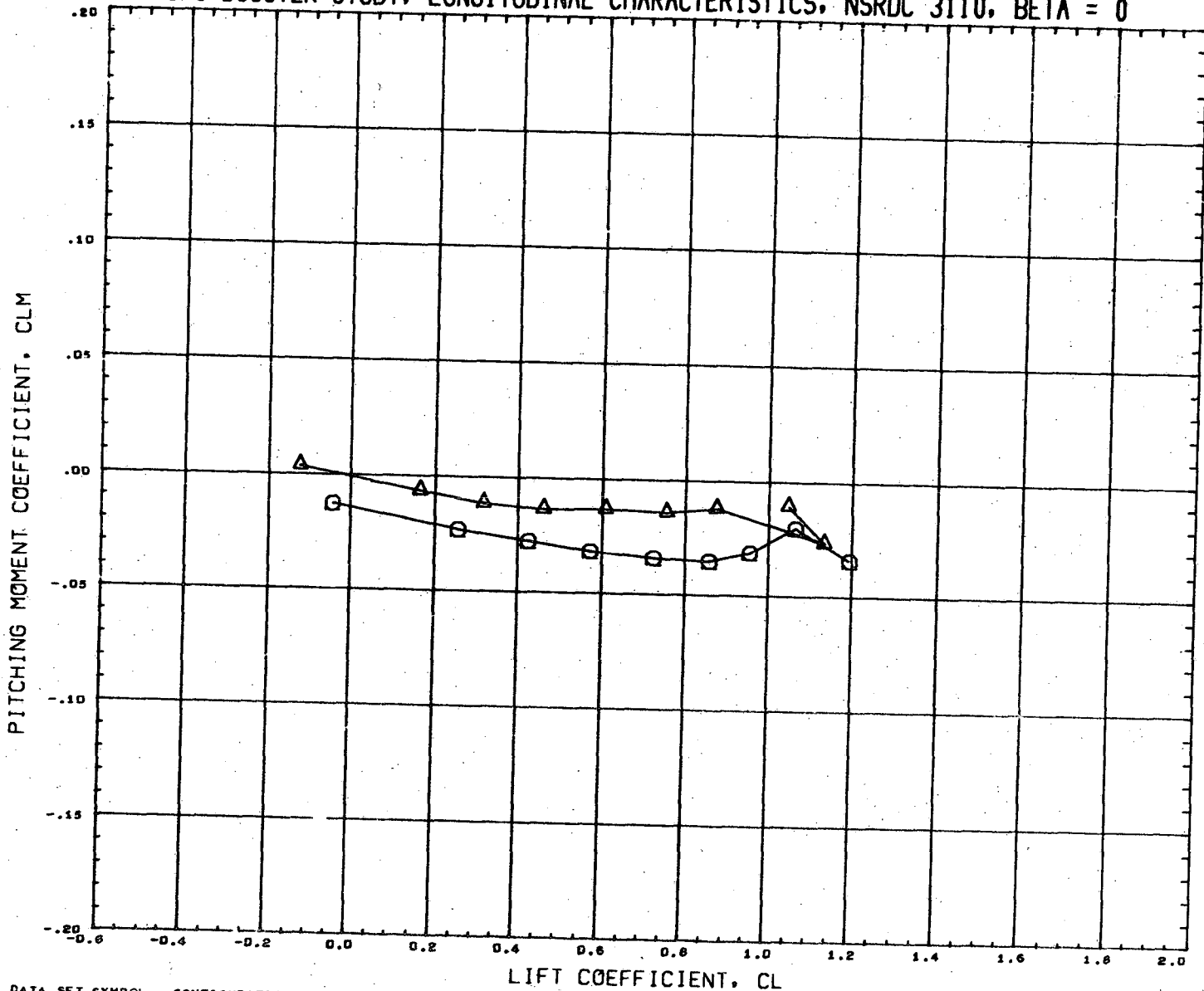
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2105)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2121)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

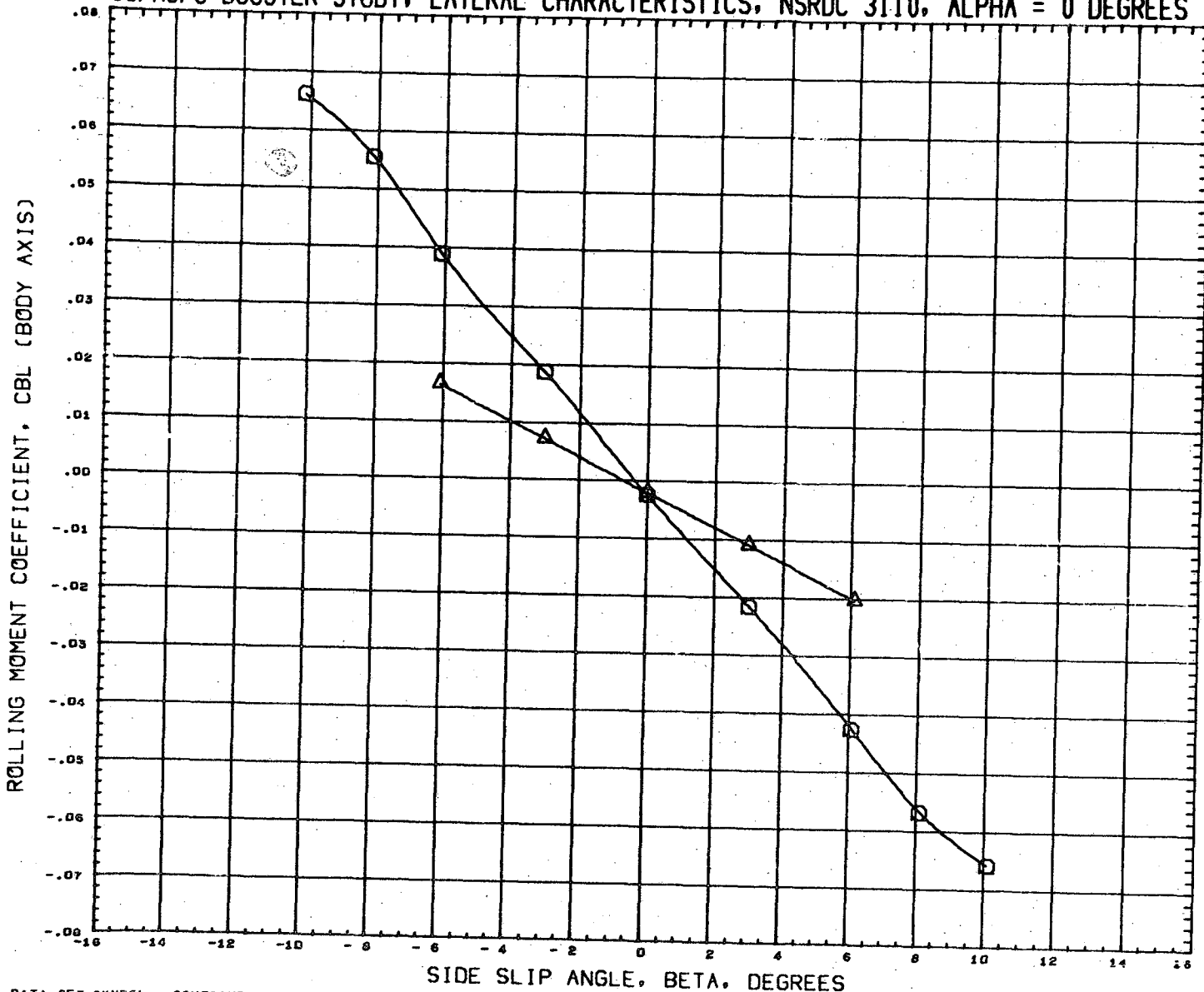
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2105)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2121)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



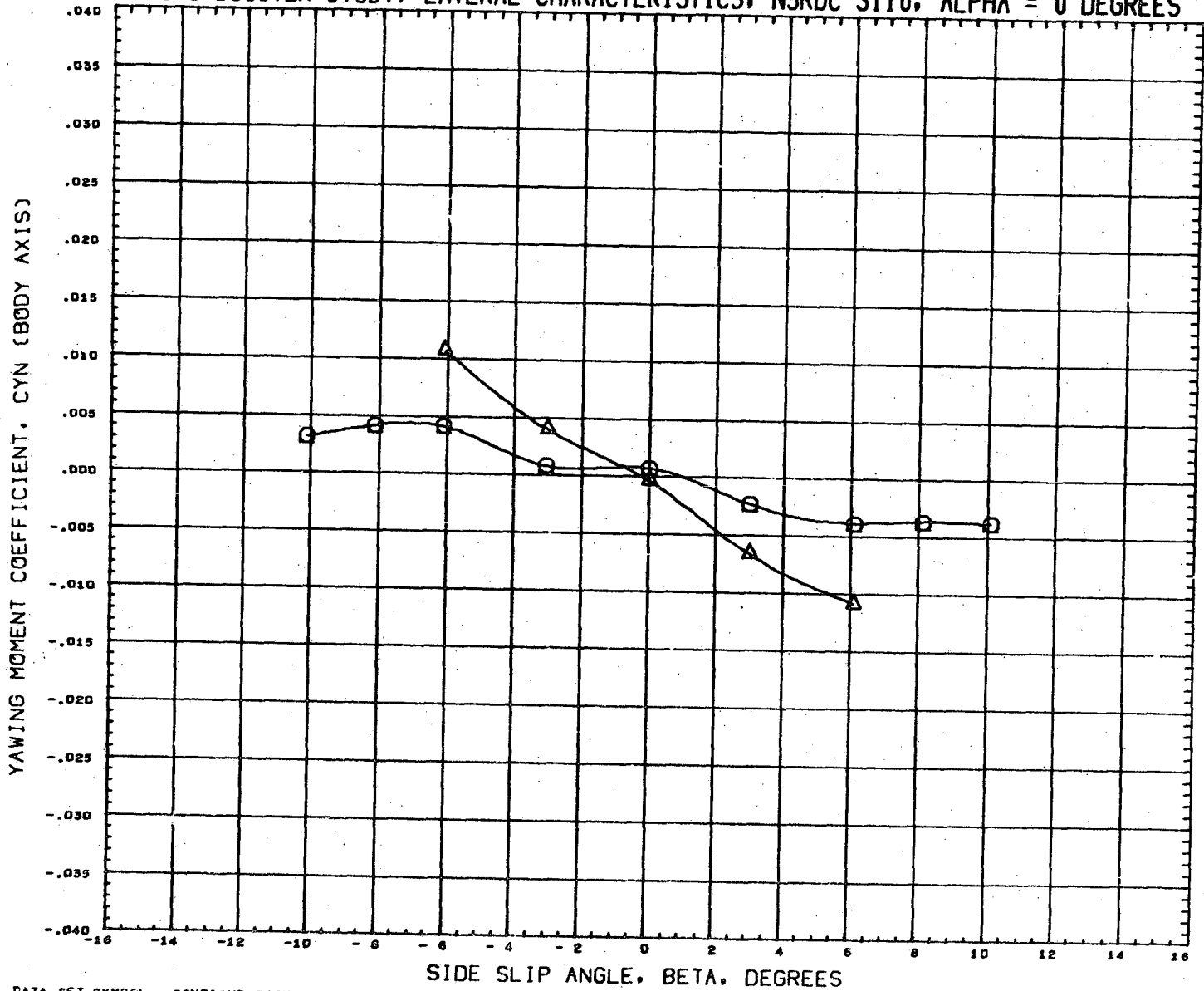
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2106) \square	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2122) \triangle	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.378

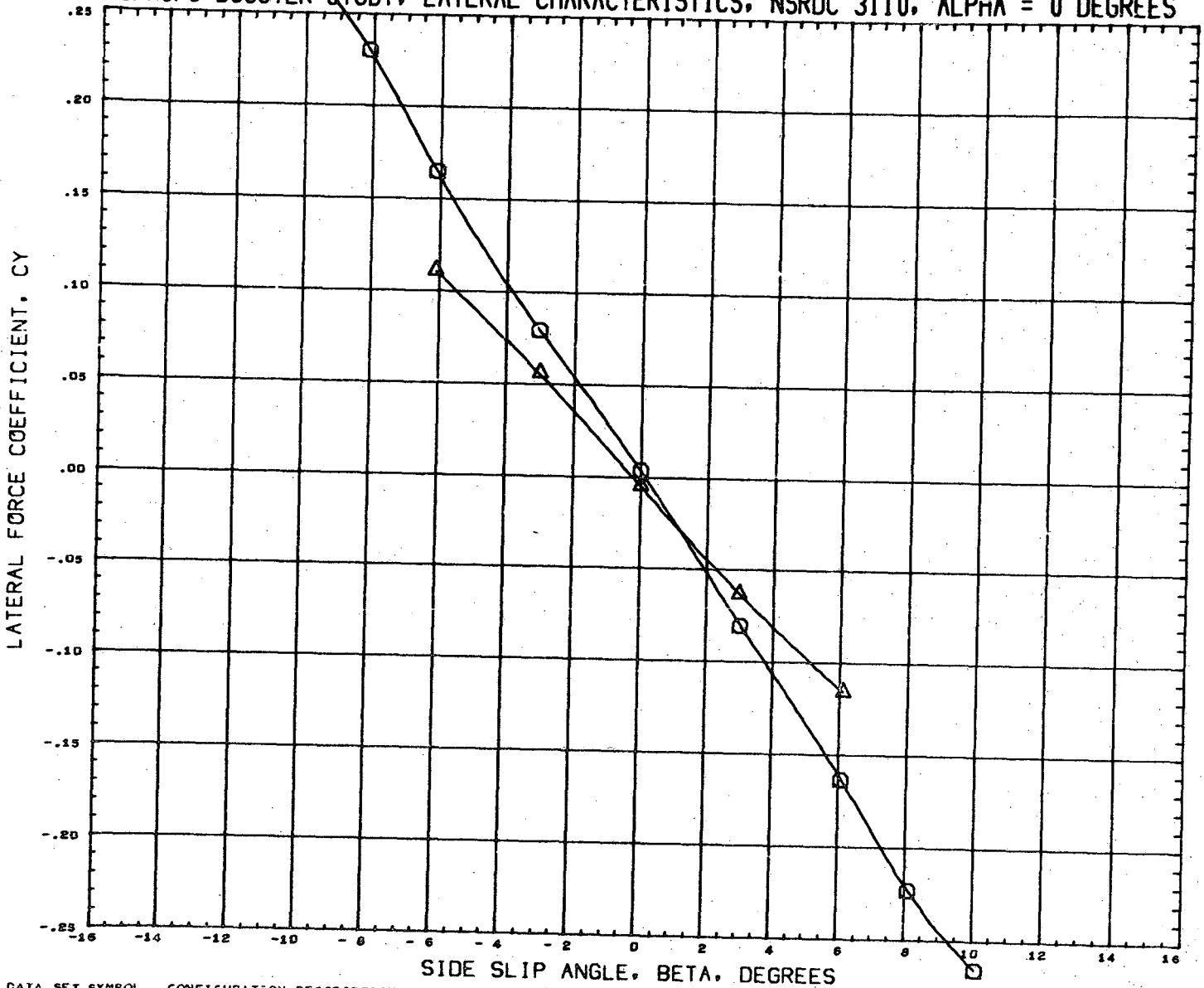
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2106)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2122)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.378

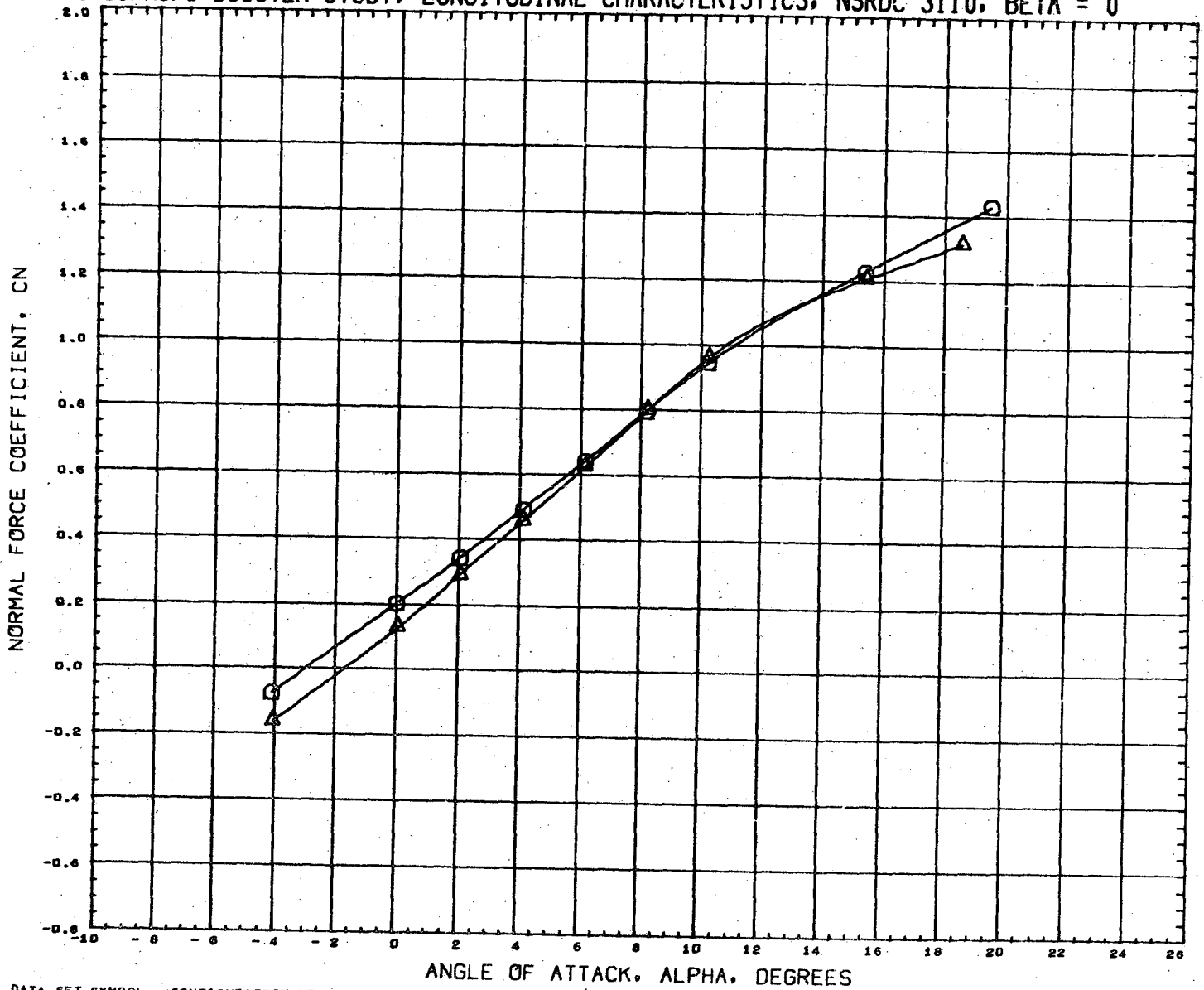
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2106) ○	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2122) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.378

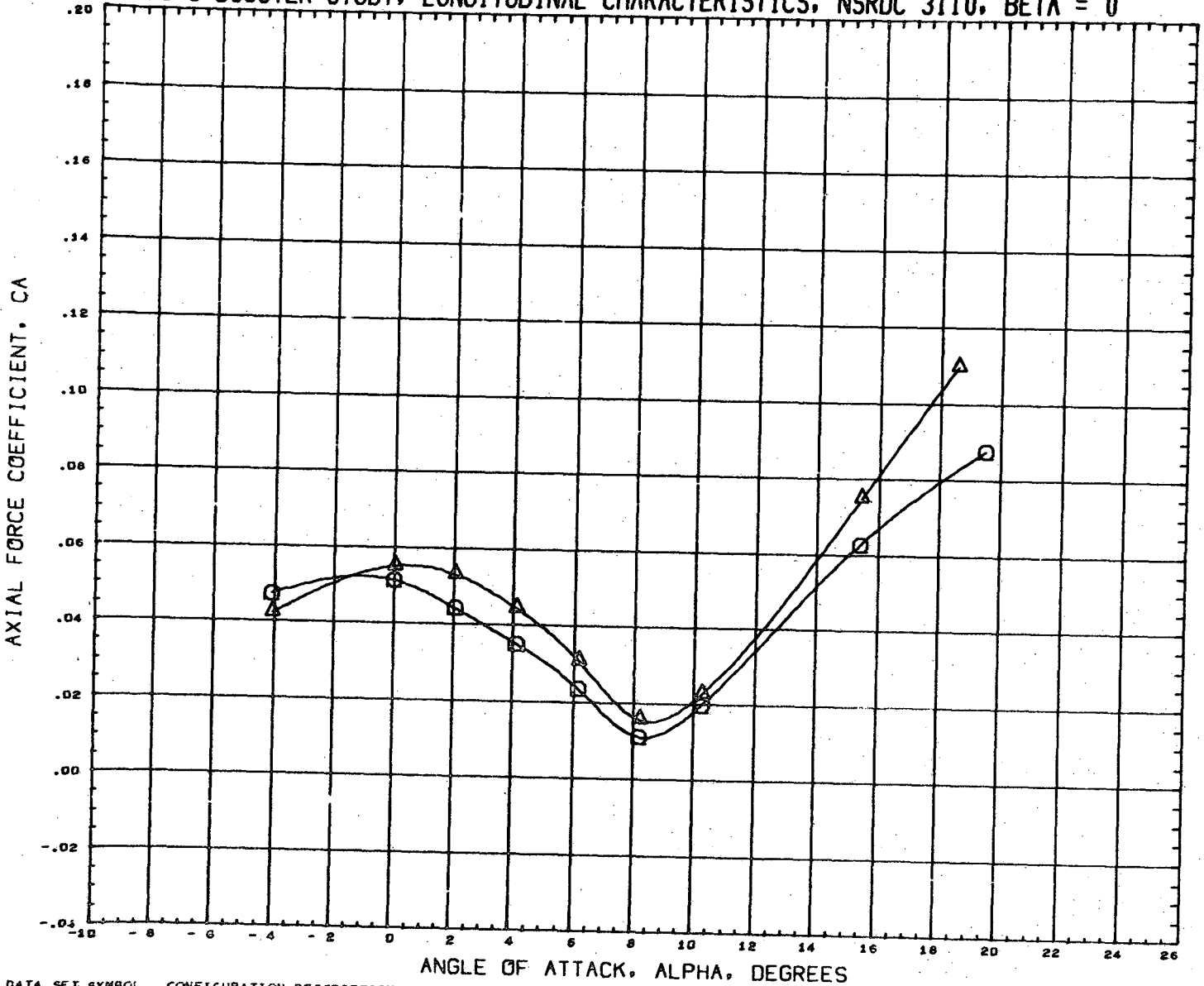
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2177)	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.360

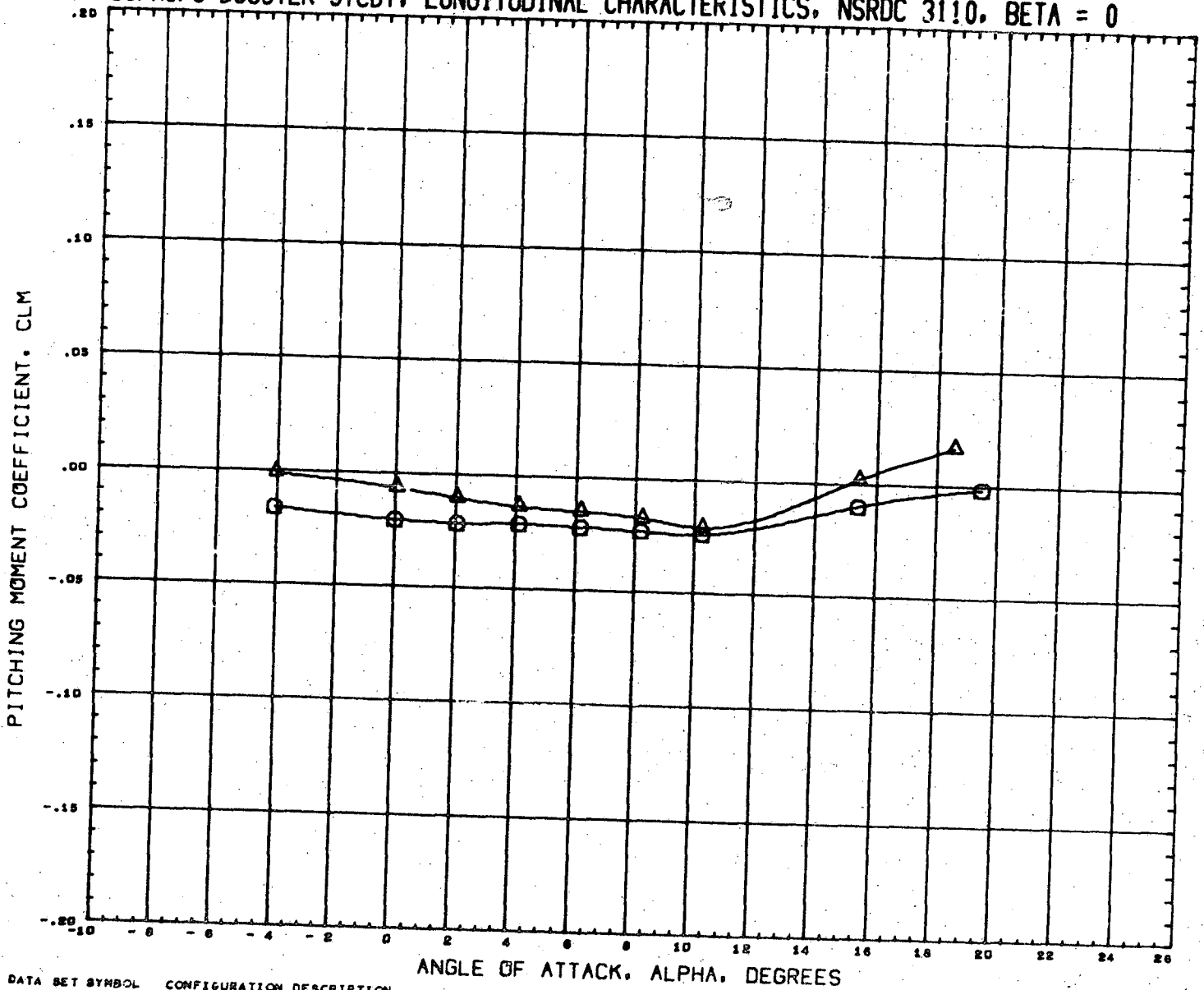
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2161)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2177)	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2161) NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
 (RN2177) NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

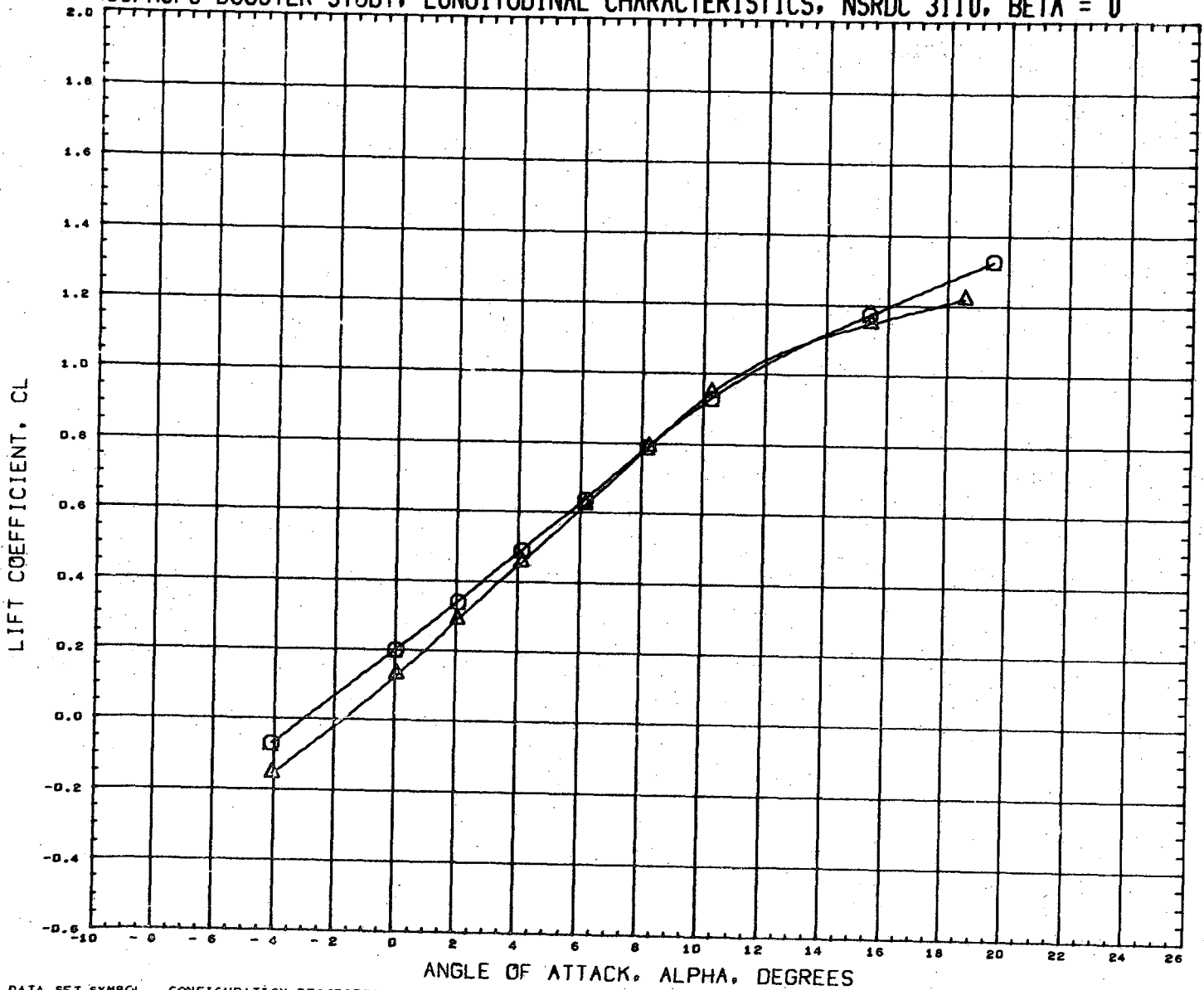
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



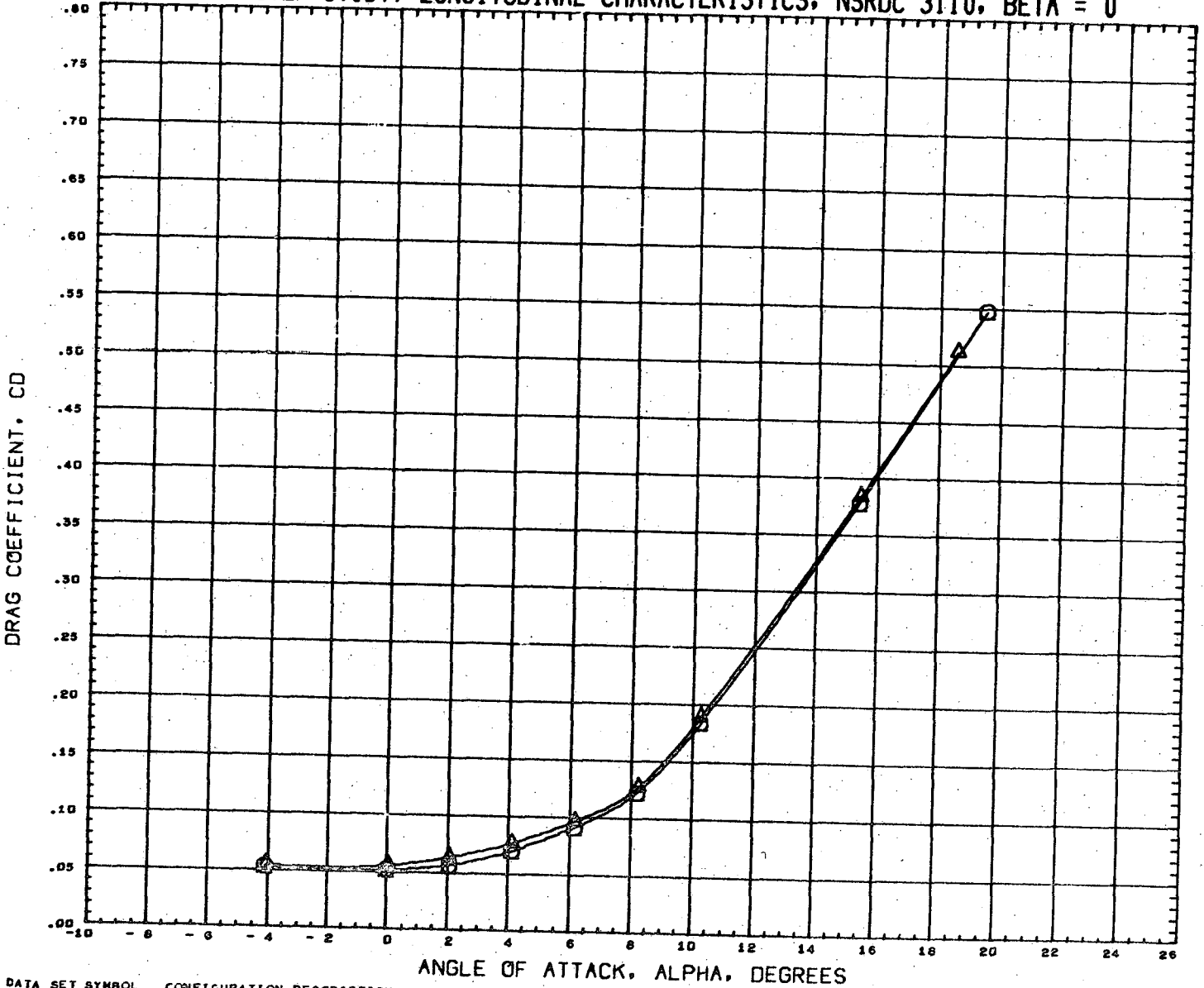
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2161) ○ NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1
 (RN2177) △ NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC CNDPOS INCIDW WNGPOS
 3.000 1.000 3.000 1.000
 3.000 1.000 3.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ.FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



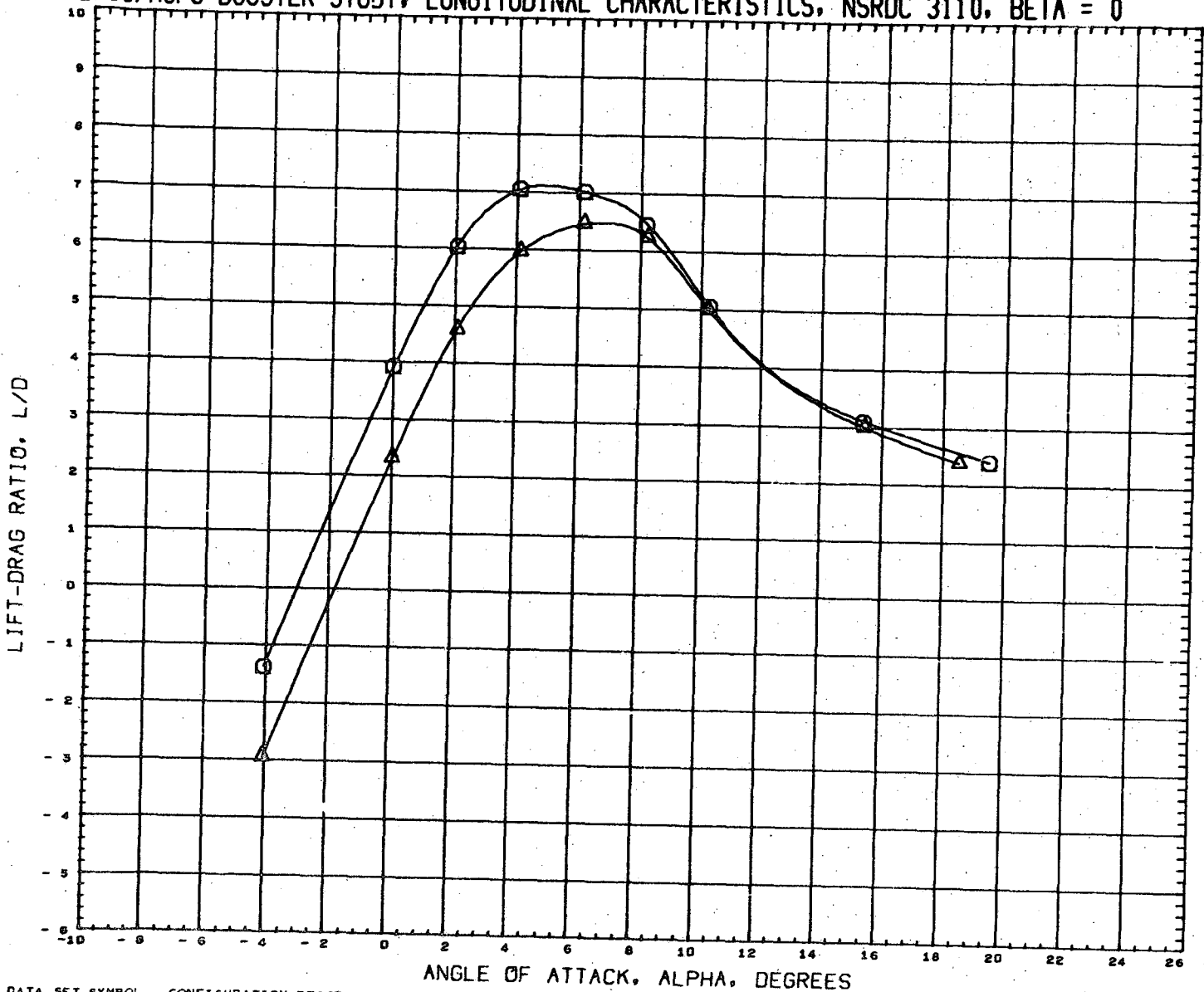
DATA SET SYMBOL (RN2161) (RN2177) CONFIGURATION DESCRIPTION NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1 NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC 3.000 1.000 3.000 1.000
 INCIDW 3.000 1.000 3.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2161) NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
 (RN2177) NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

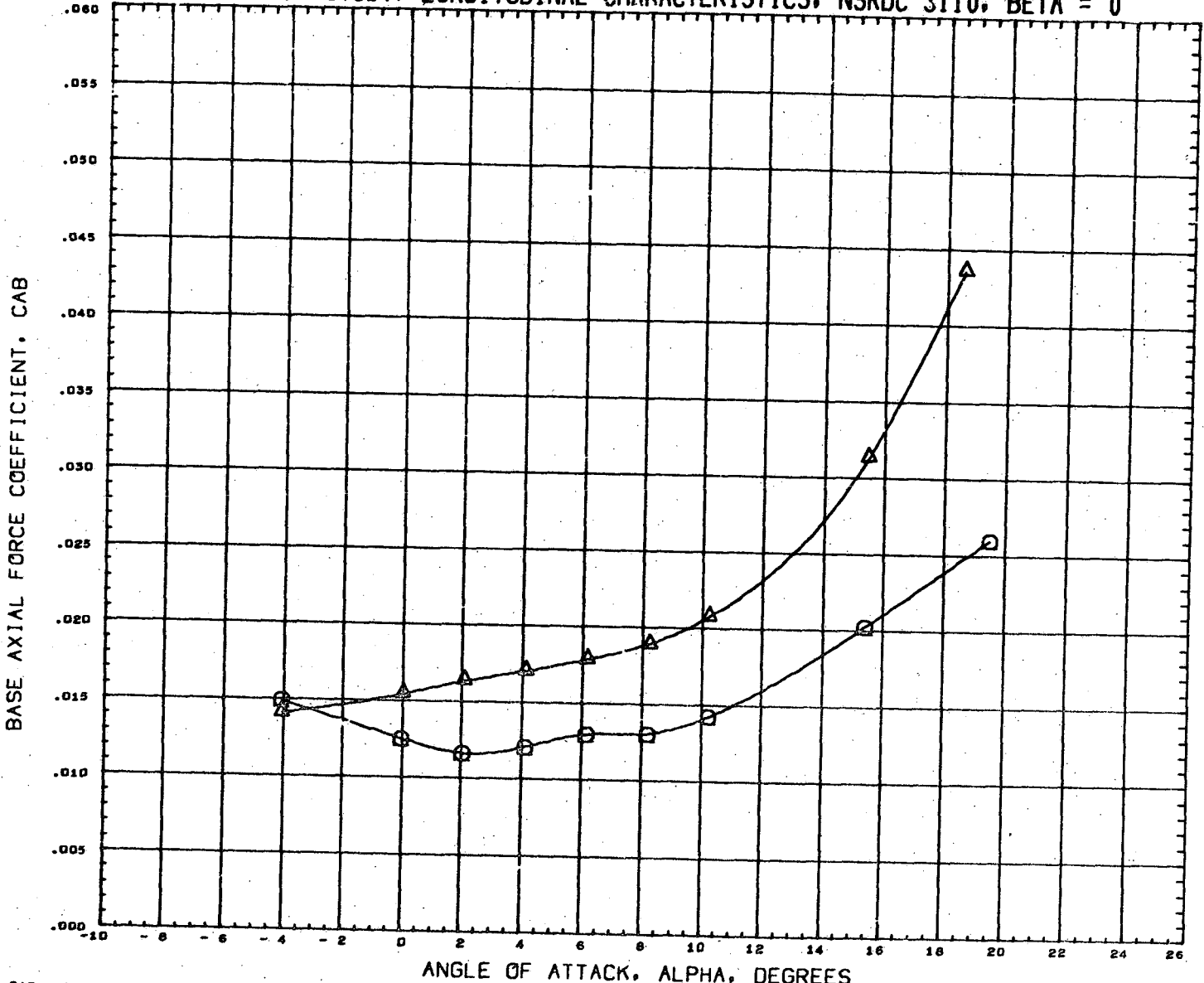
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	50. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RN2161) ○ NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
 (RN2177) △ NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1

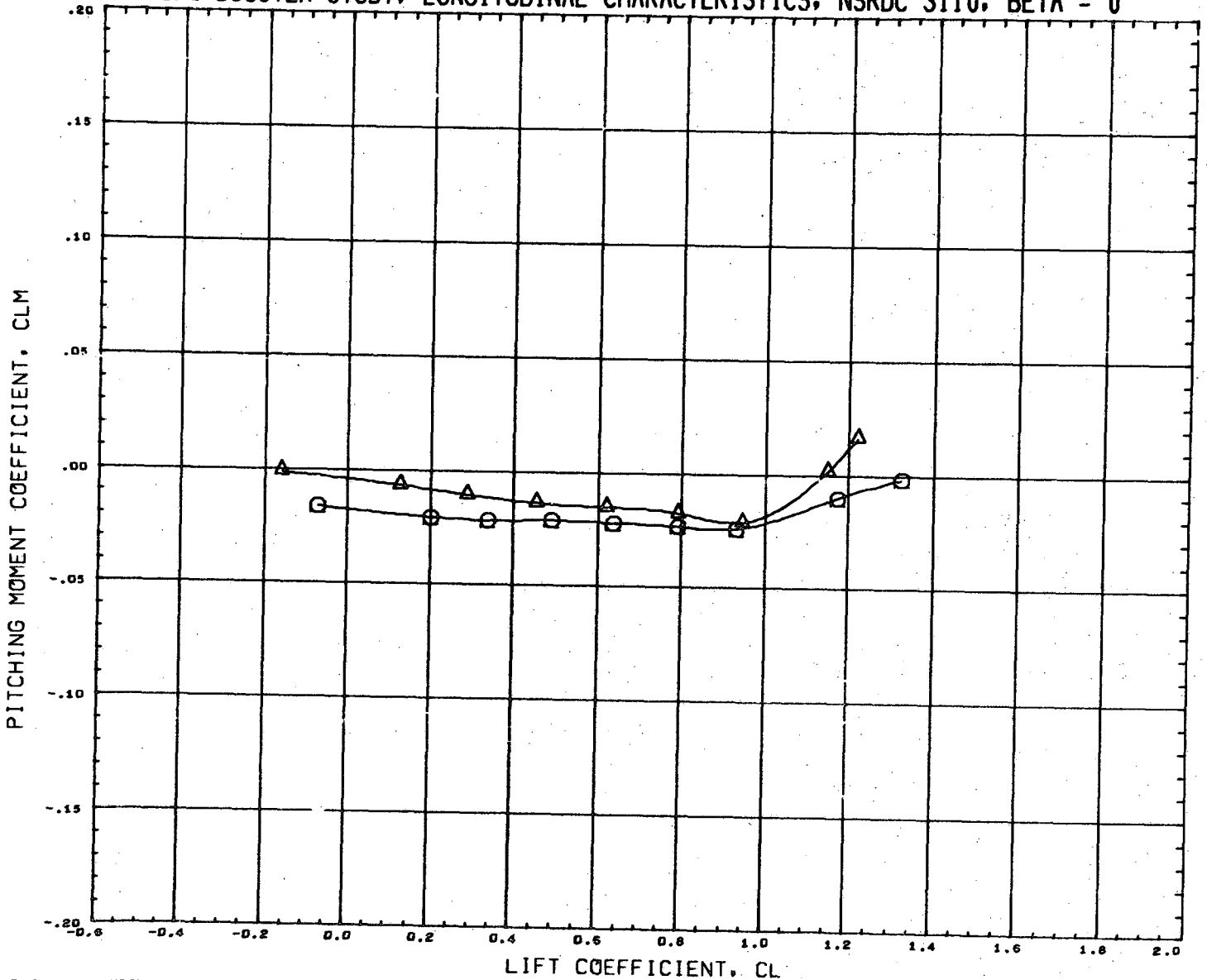
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	1.000	3.000	1.000
3.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SG. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

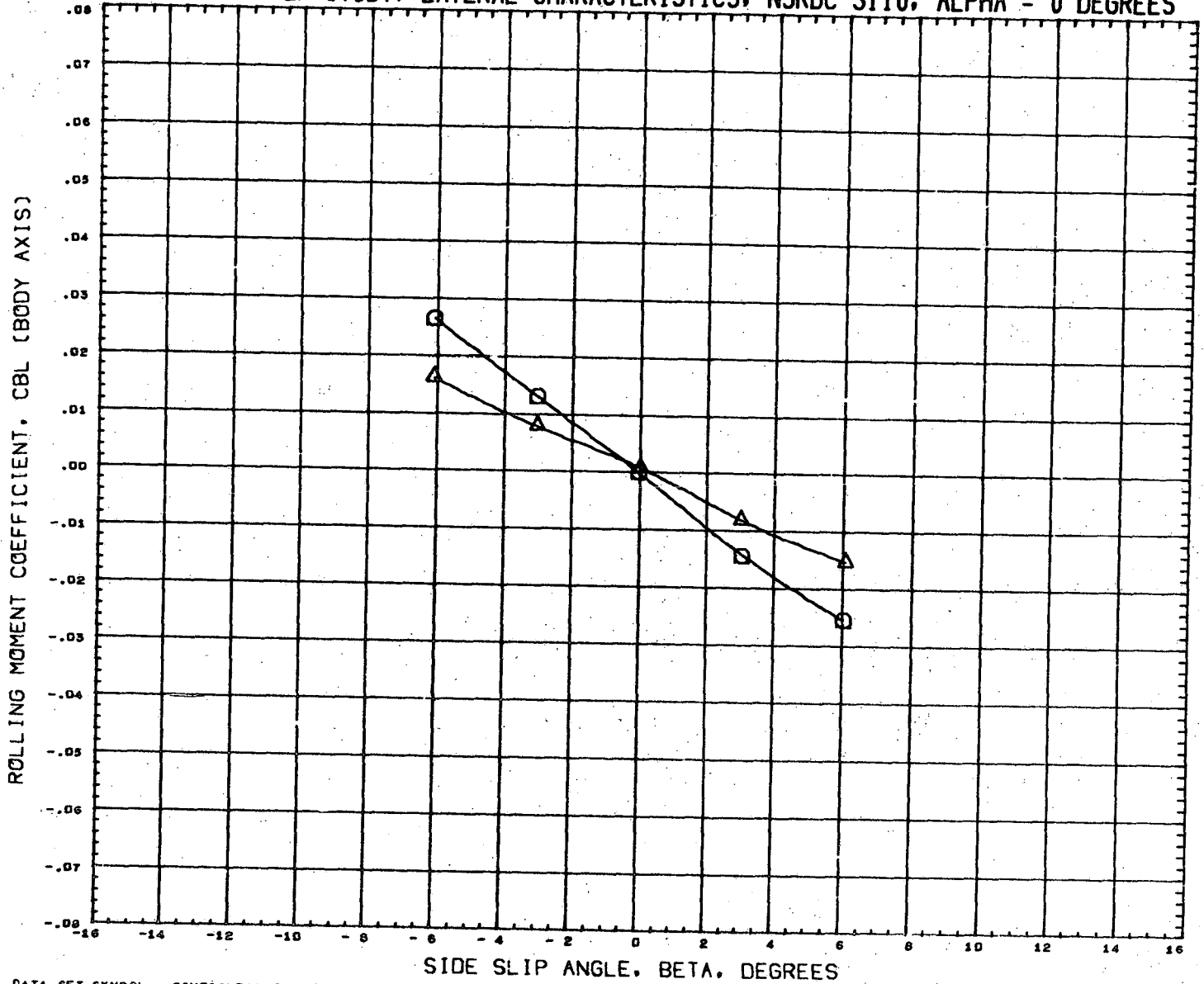
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2161)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2177)	NSRDC 3110 MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.360

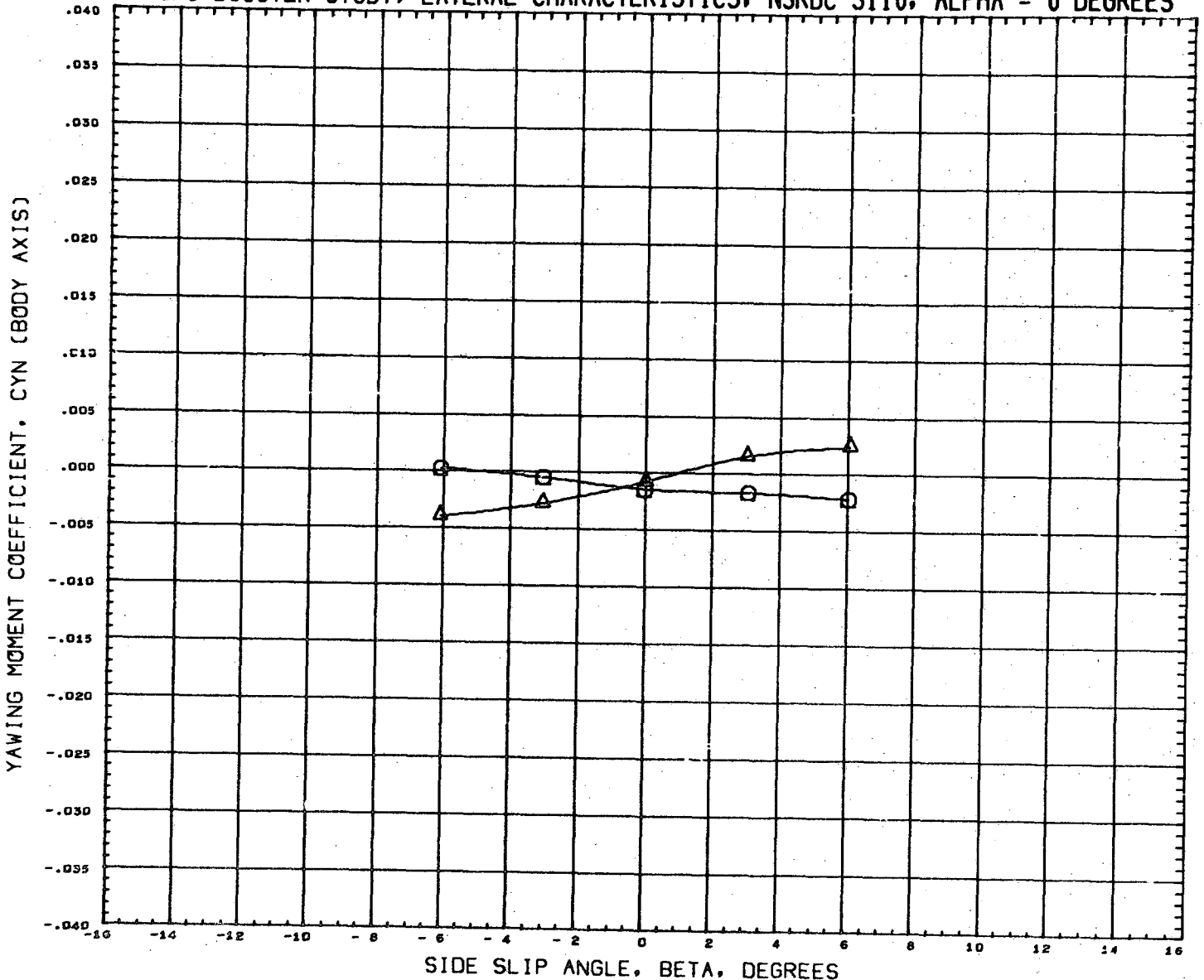
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2162)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2178)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

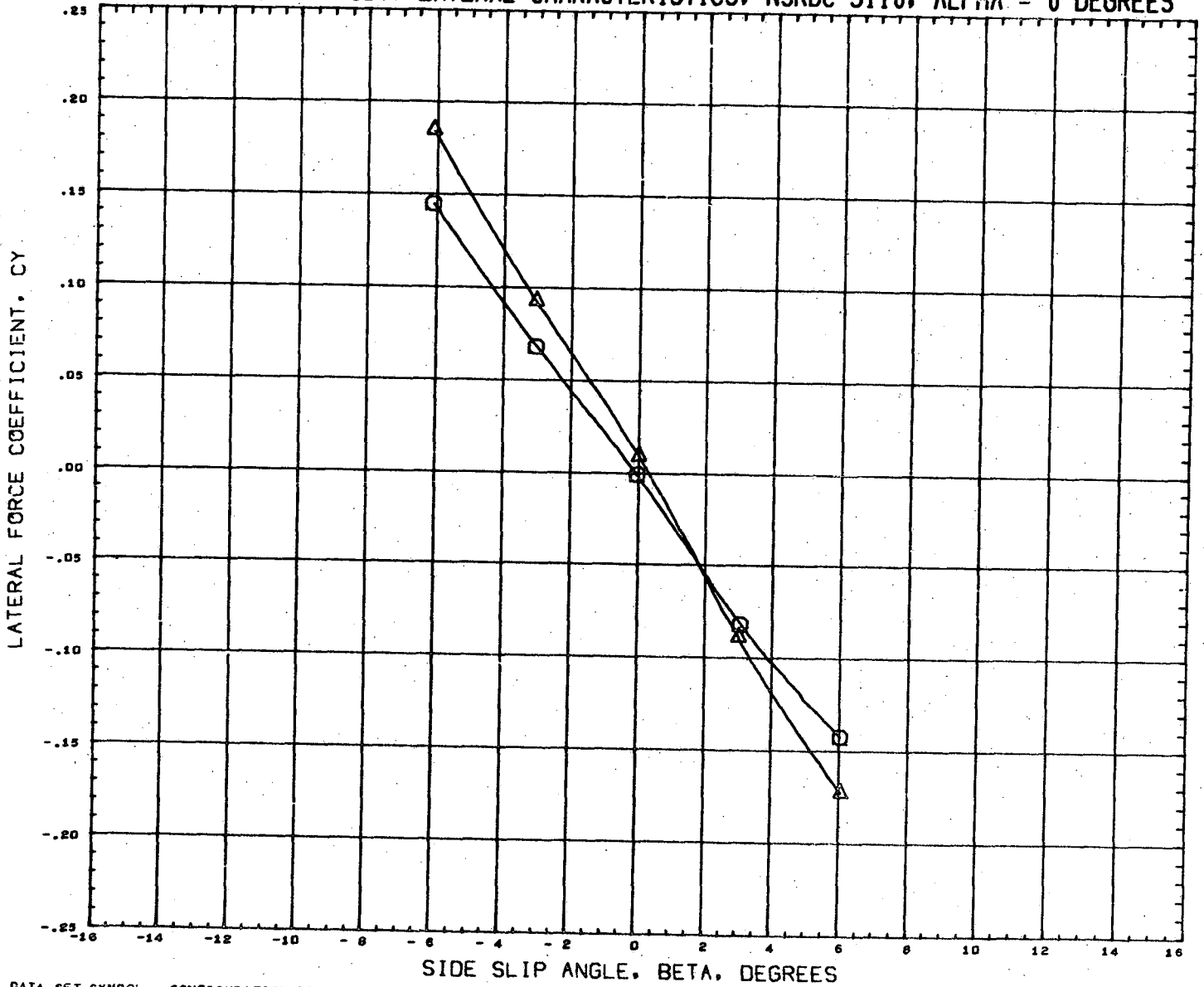
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2162)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2178)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XHRF 31.1400 INCHES
						YHRF 0.0000 INCHES
						ZHRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

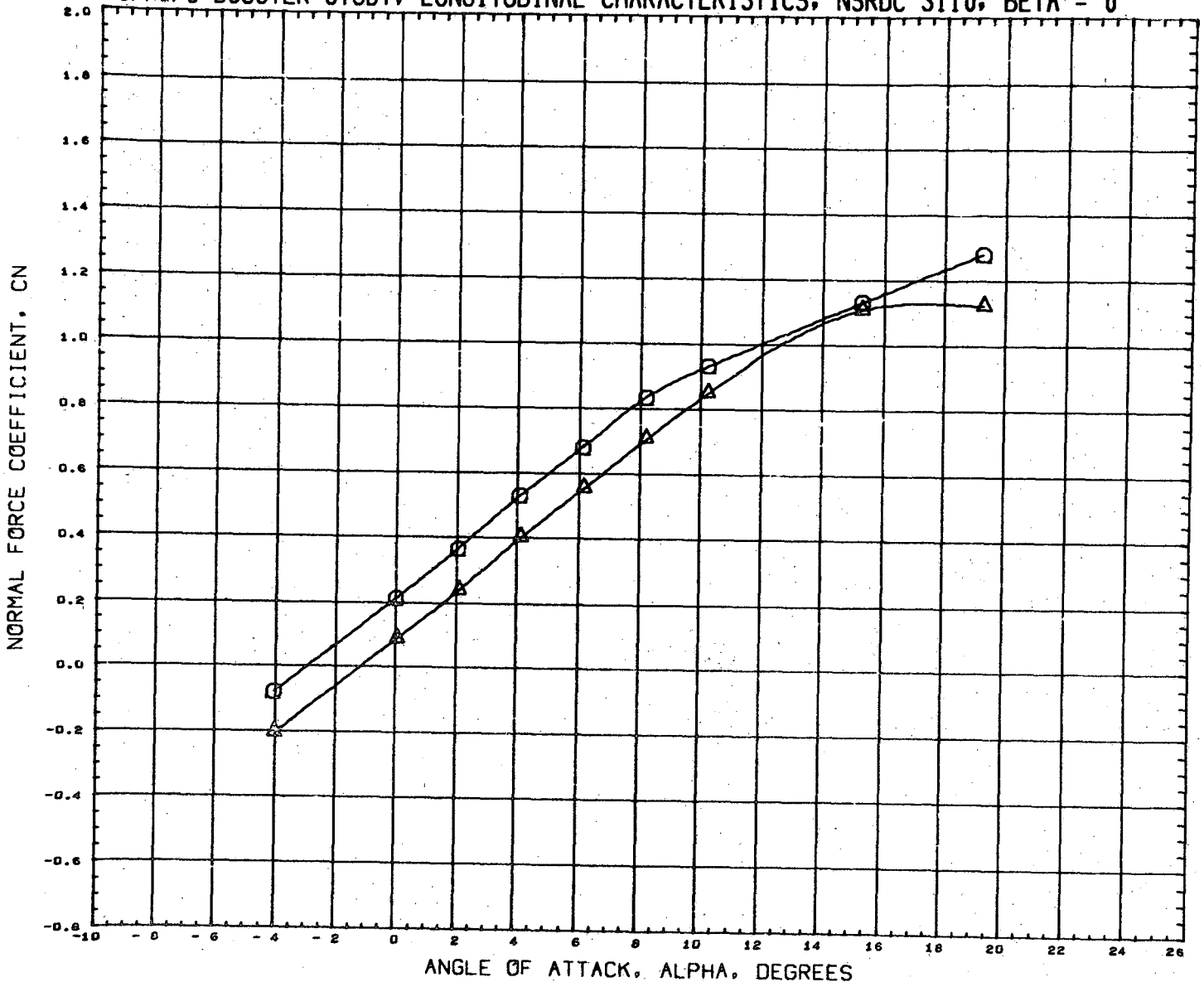
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2162)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2178)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	3.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

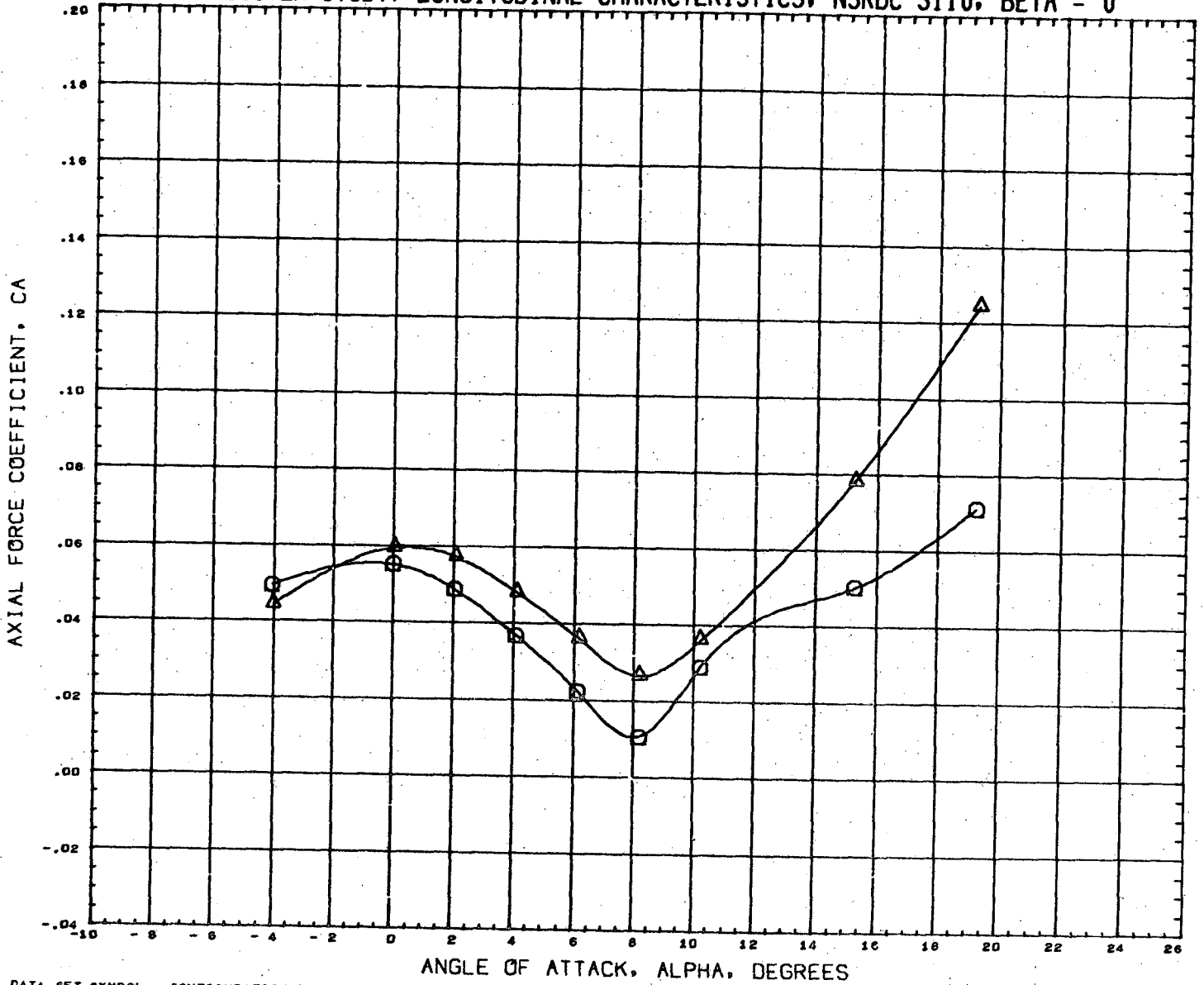
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2169)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	SREF	1.3550 SQ. FT.
(RN2185)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.383

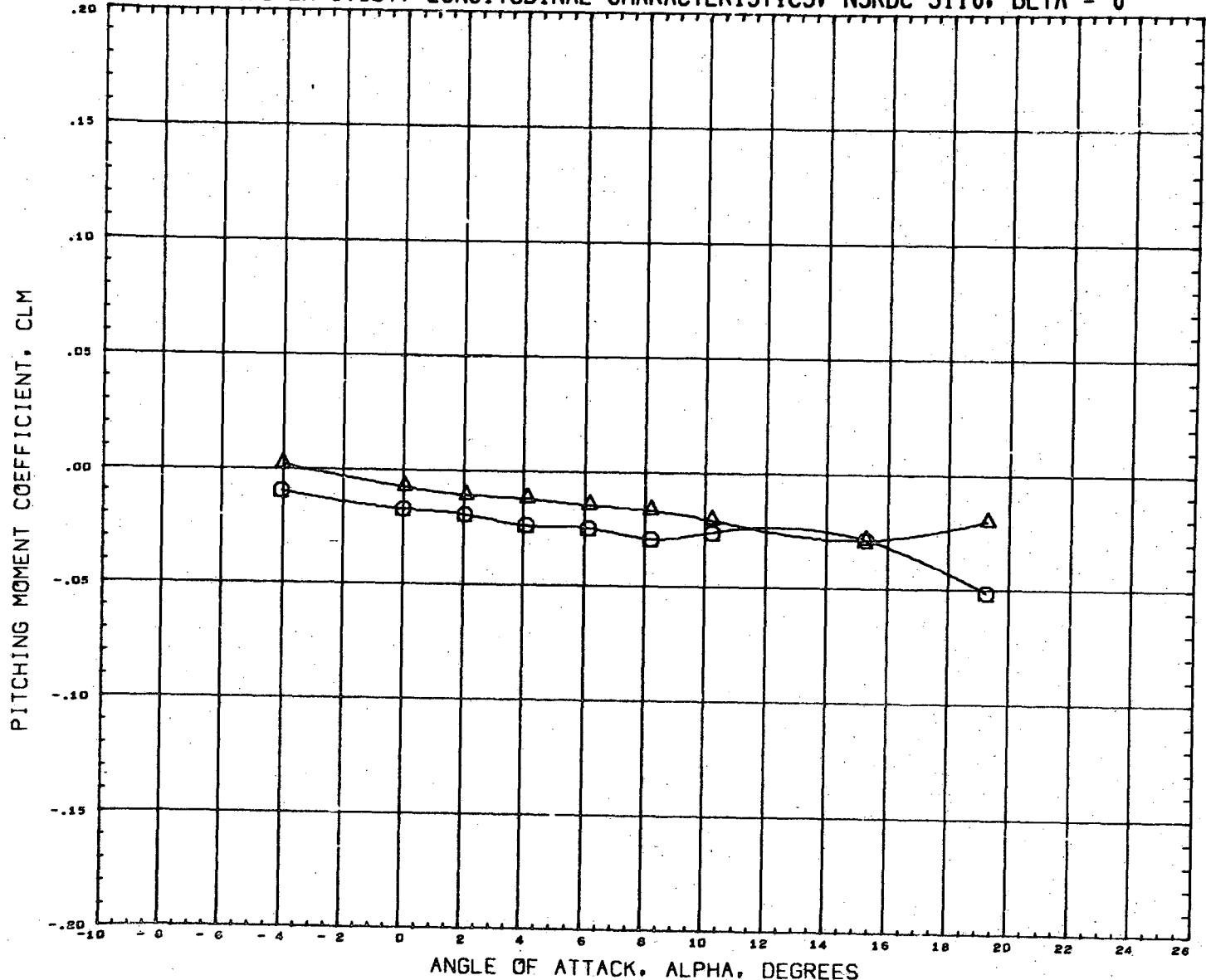
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2169)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2185)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

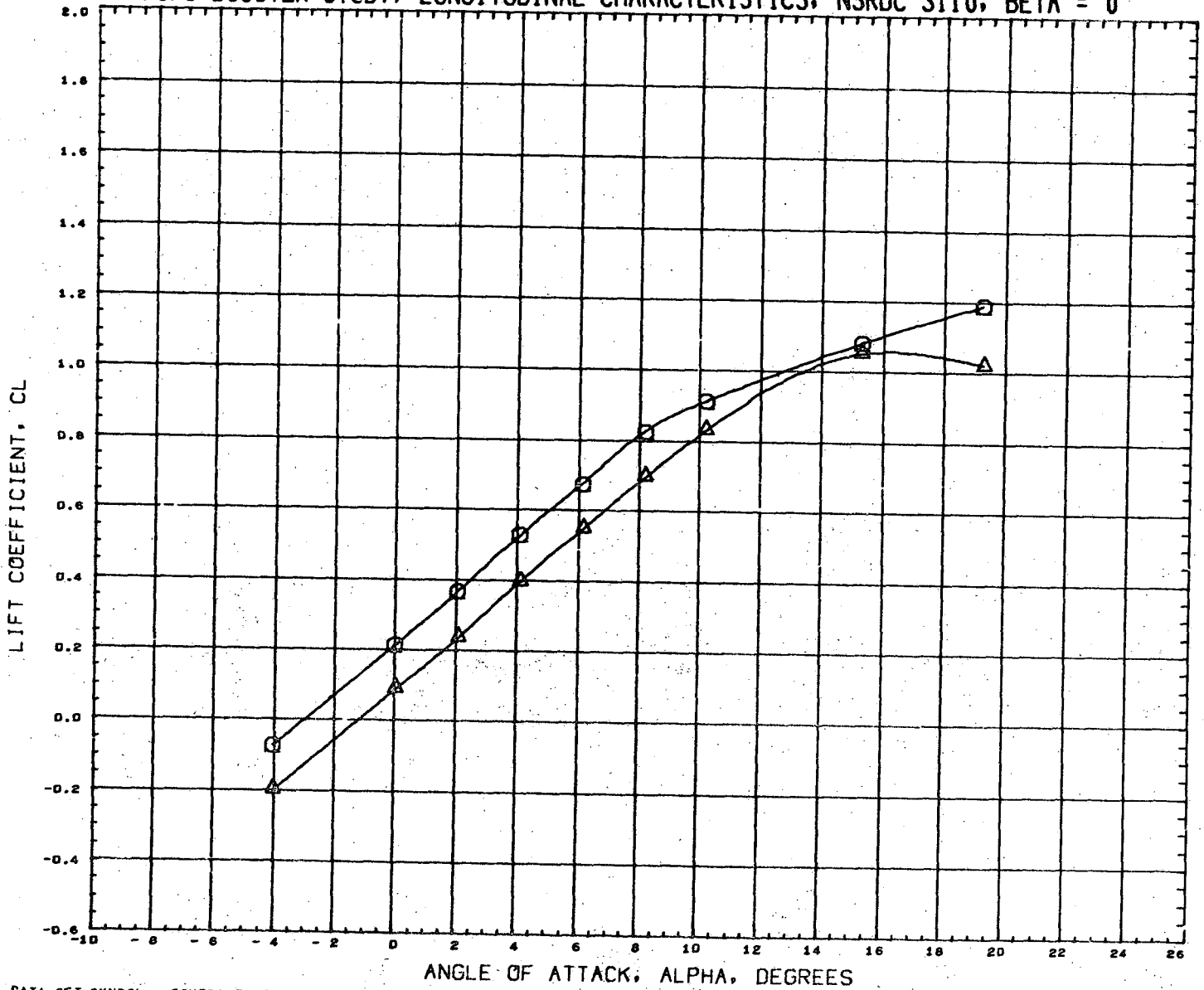
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2169)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2185)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

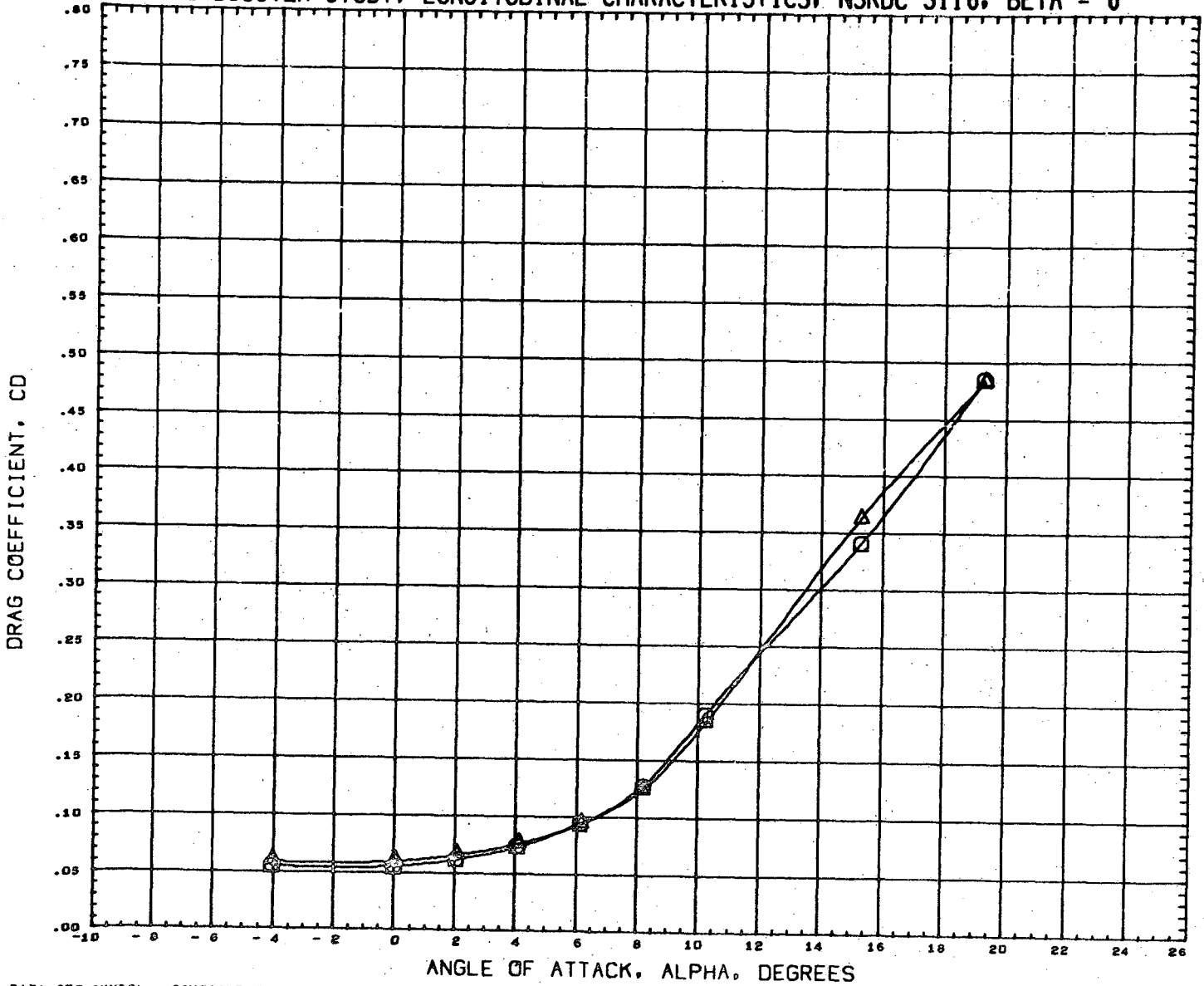
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2169)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2185)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2169) 
(RN2165) 

CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

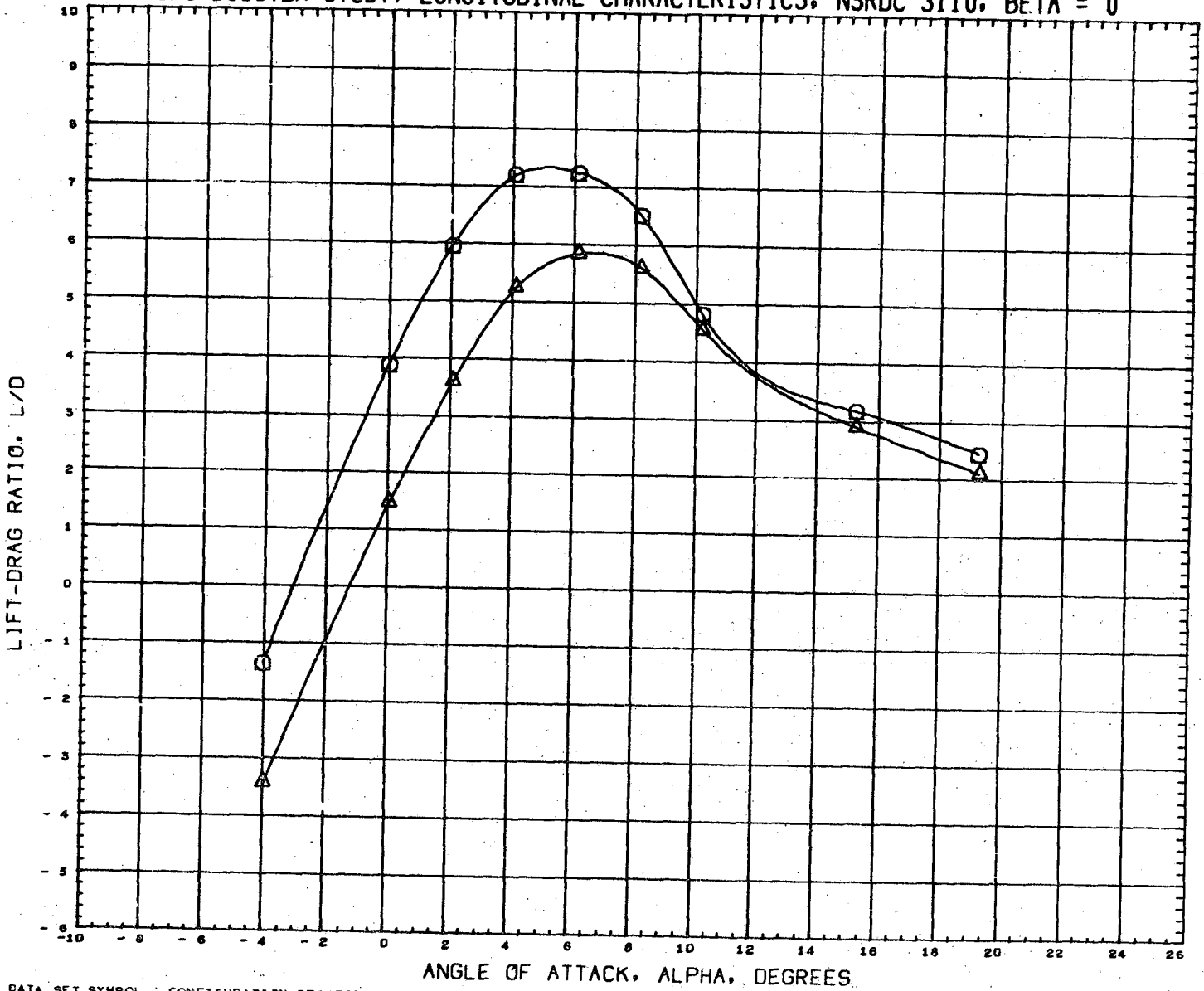
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SG. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2230	INCHES
SCALE	1.5000	PERCNT

MACH 0.383

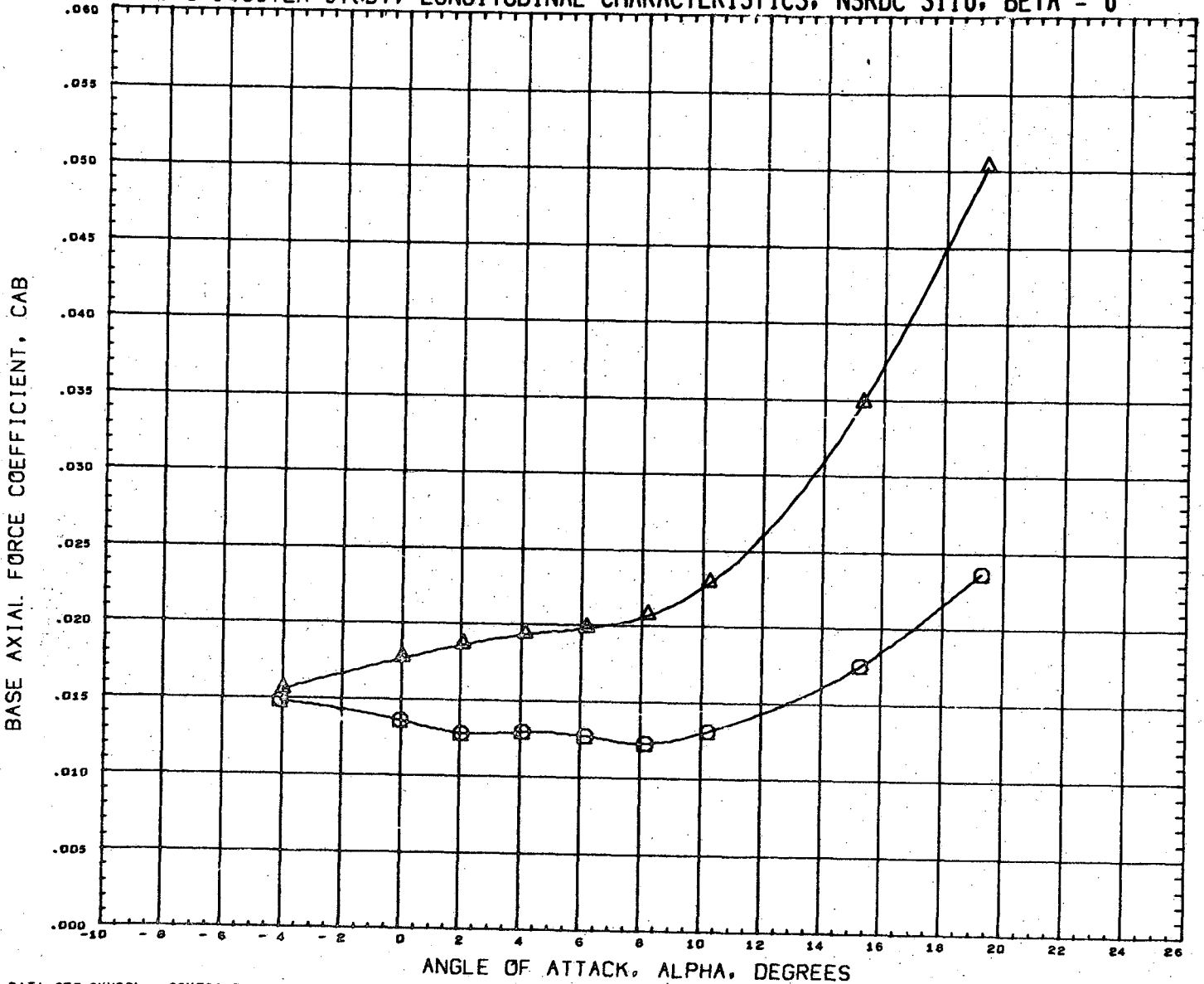
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2169)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2165)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

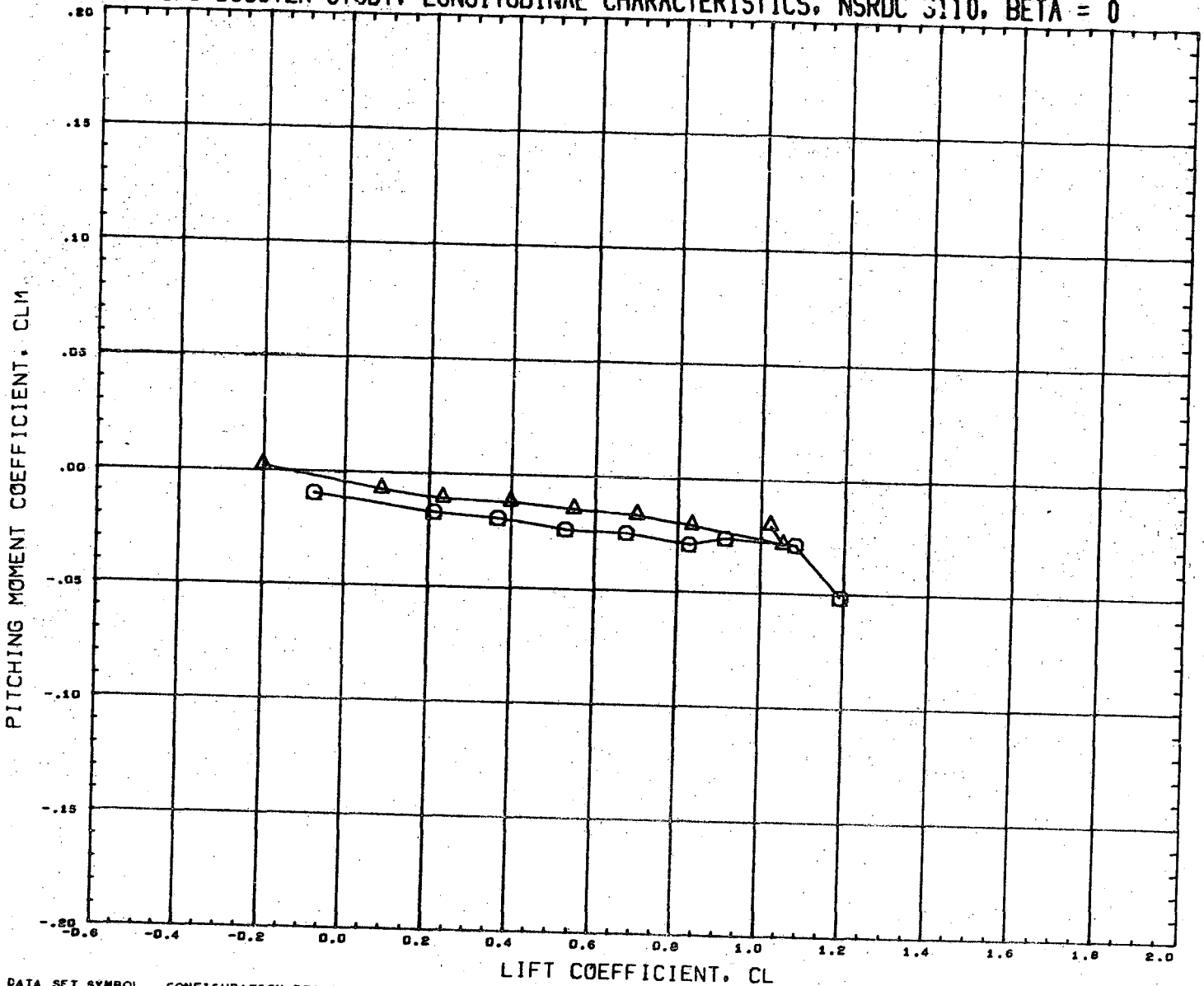
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2169)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2165)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

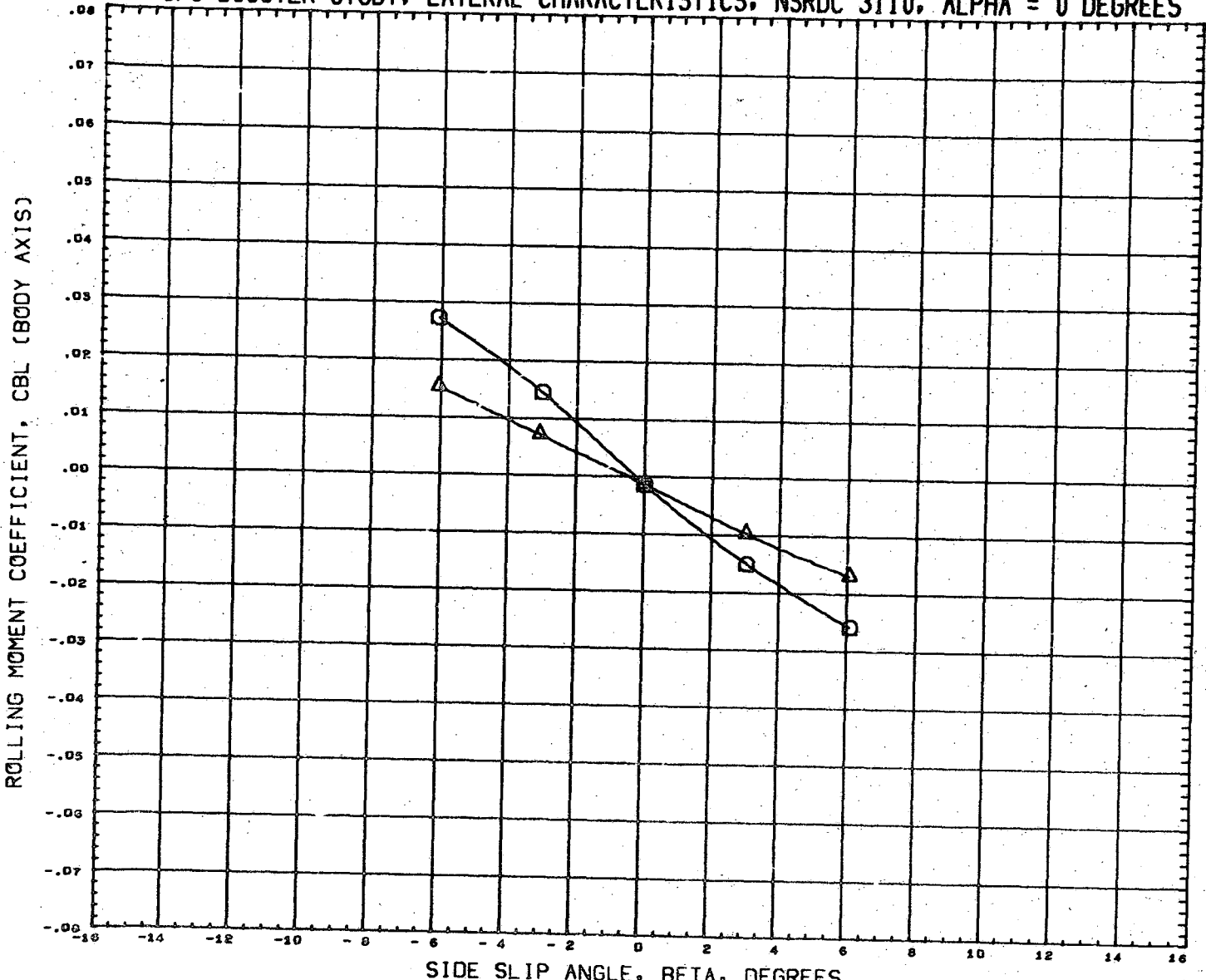
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2169)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2185)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.383

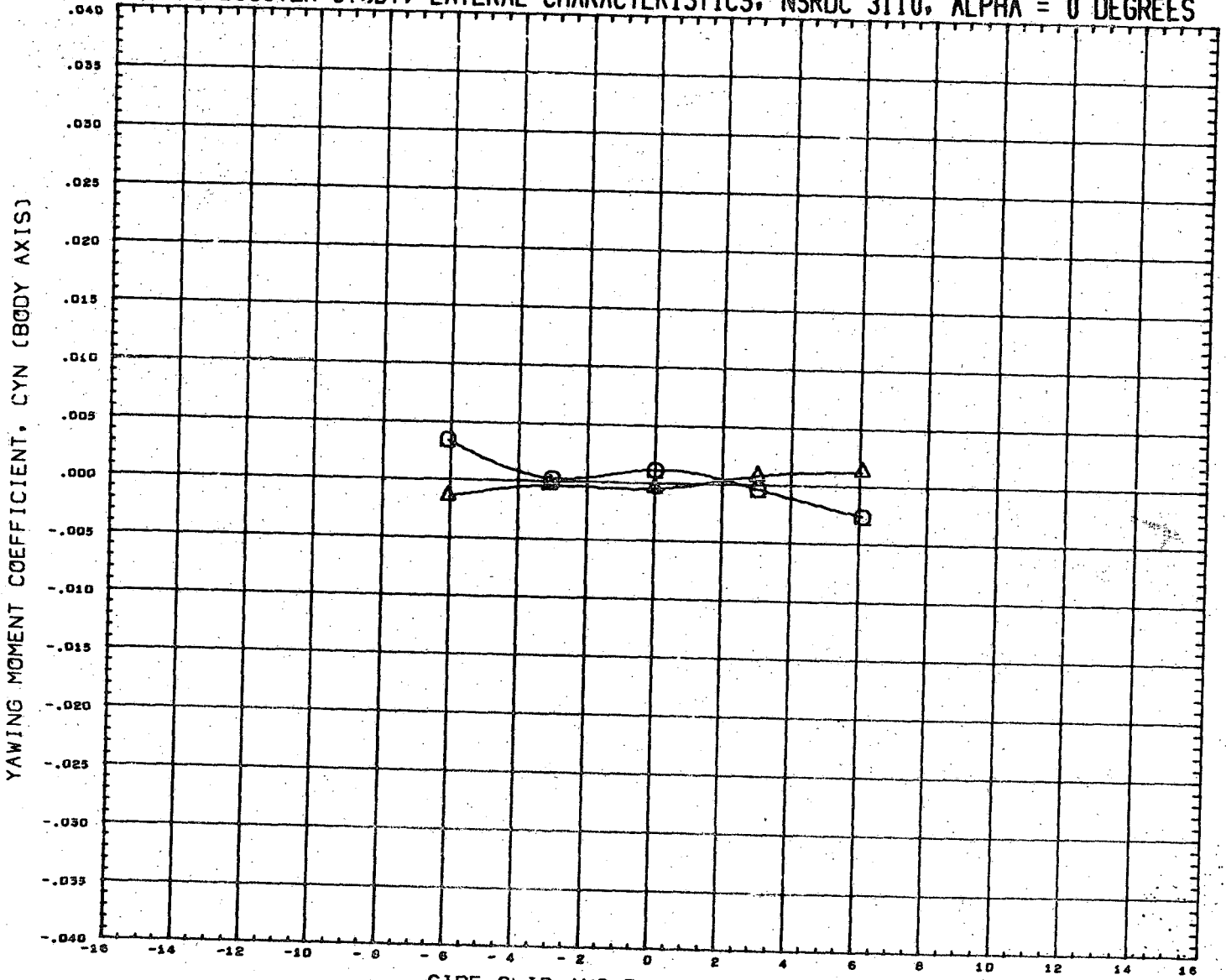
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN217D)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN218E)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	3.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN217D) 
(RN2186) 

CONFIGURATION DESCRIPTION
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1

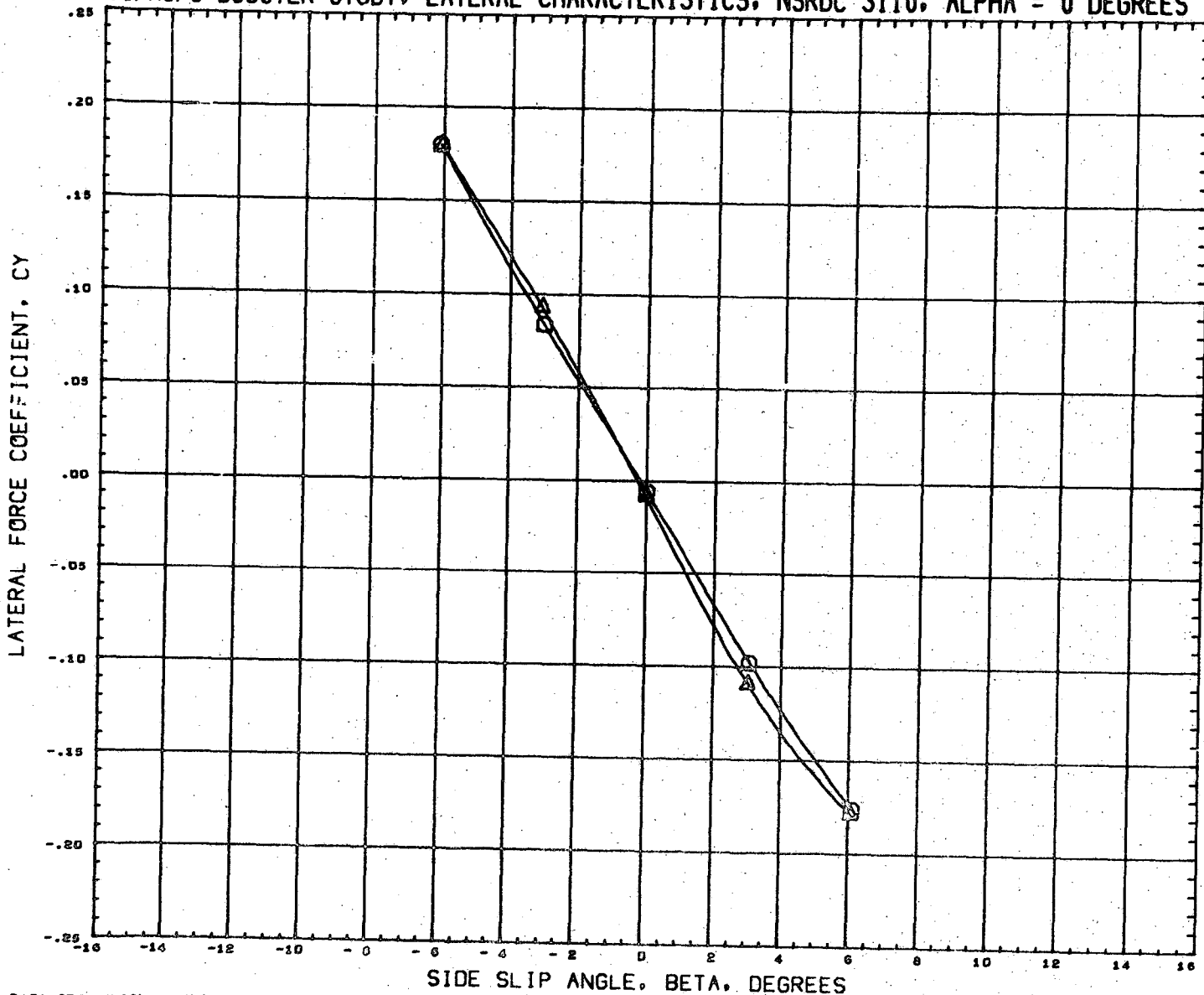
INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000



REFERENCE INFORMATION

SREF	1.3550	SQ. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2170) 
(RN2186) 

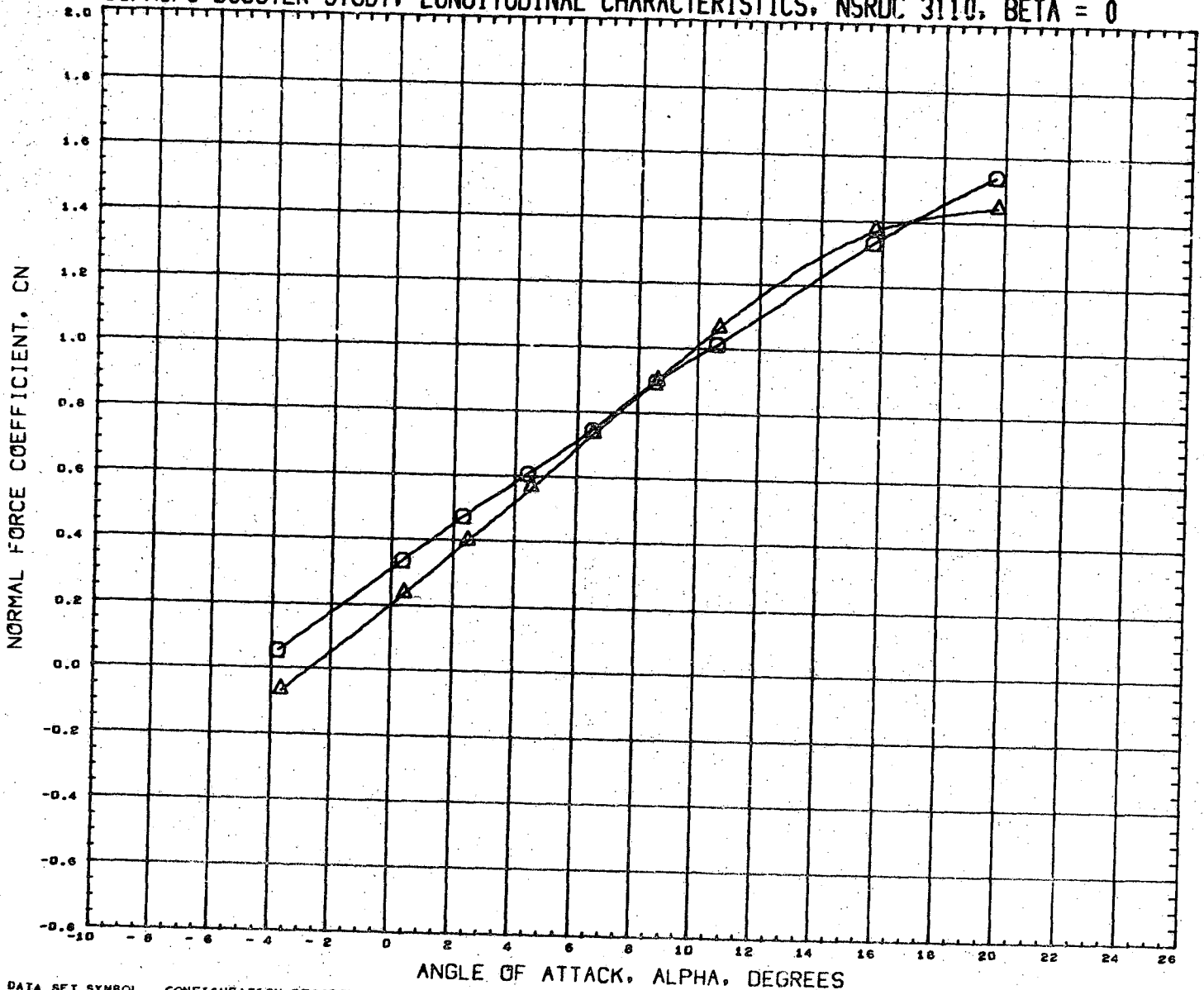
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
3.000	2.000	3.000	1.000
3.000	2.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.300

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2101)
(RN2117)



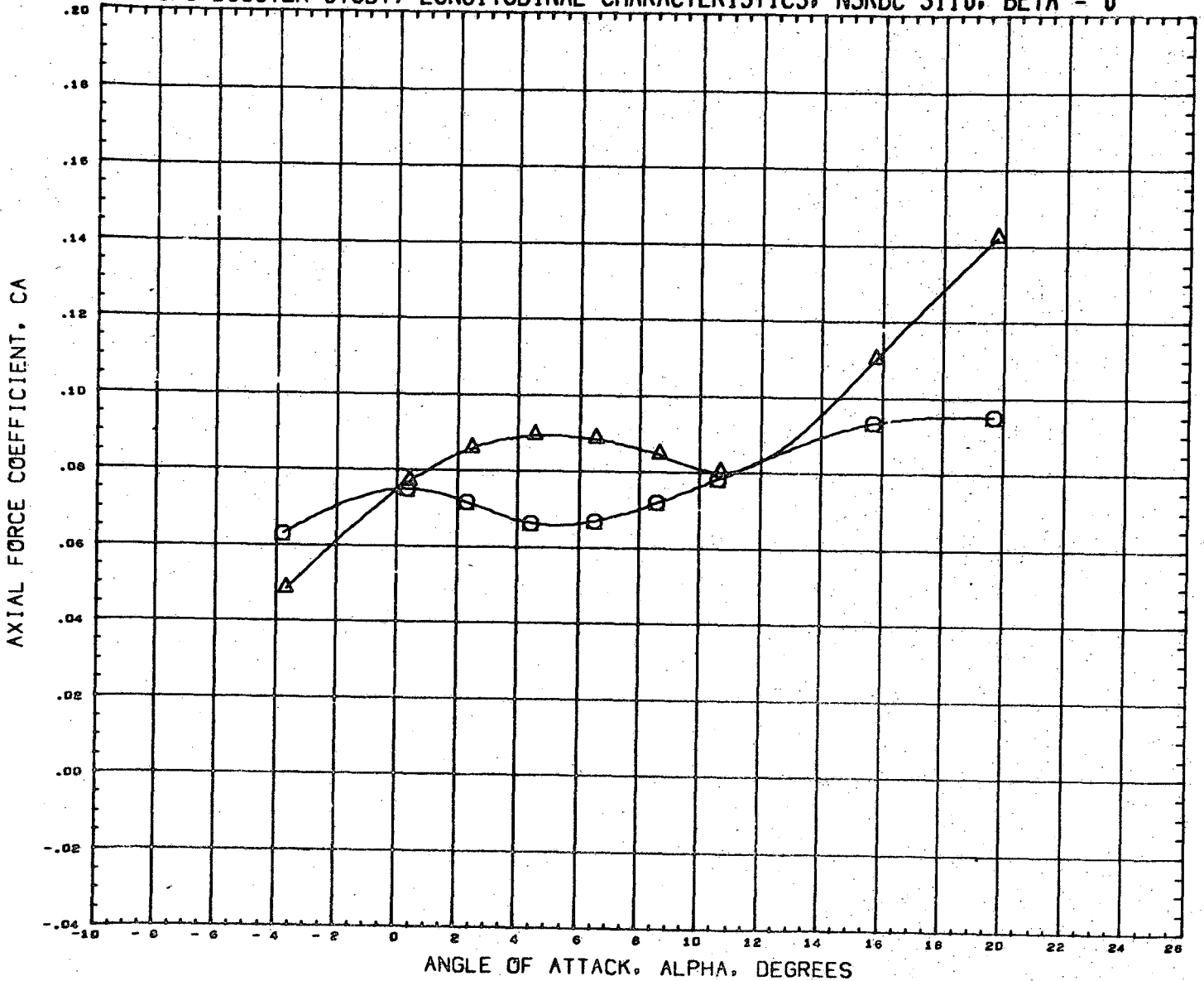
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XNRP	31.1400 INCHES
YNRP	0.0000 INCHES
ZNRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

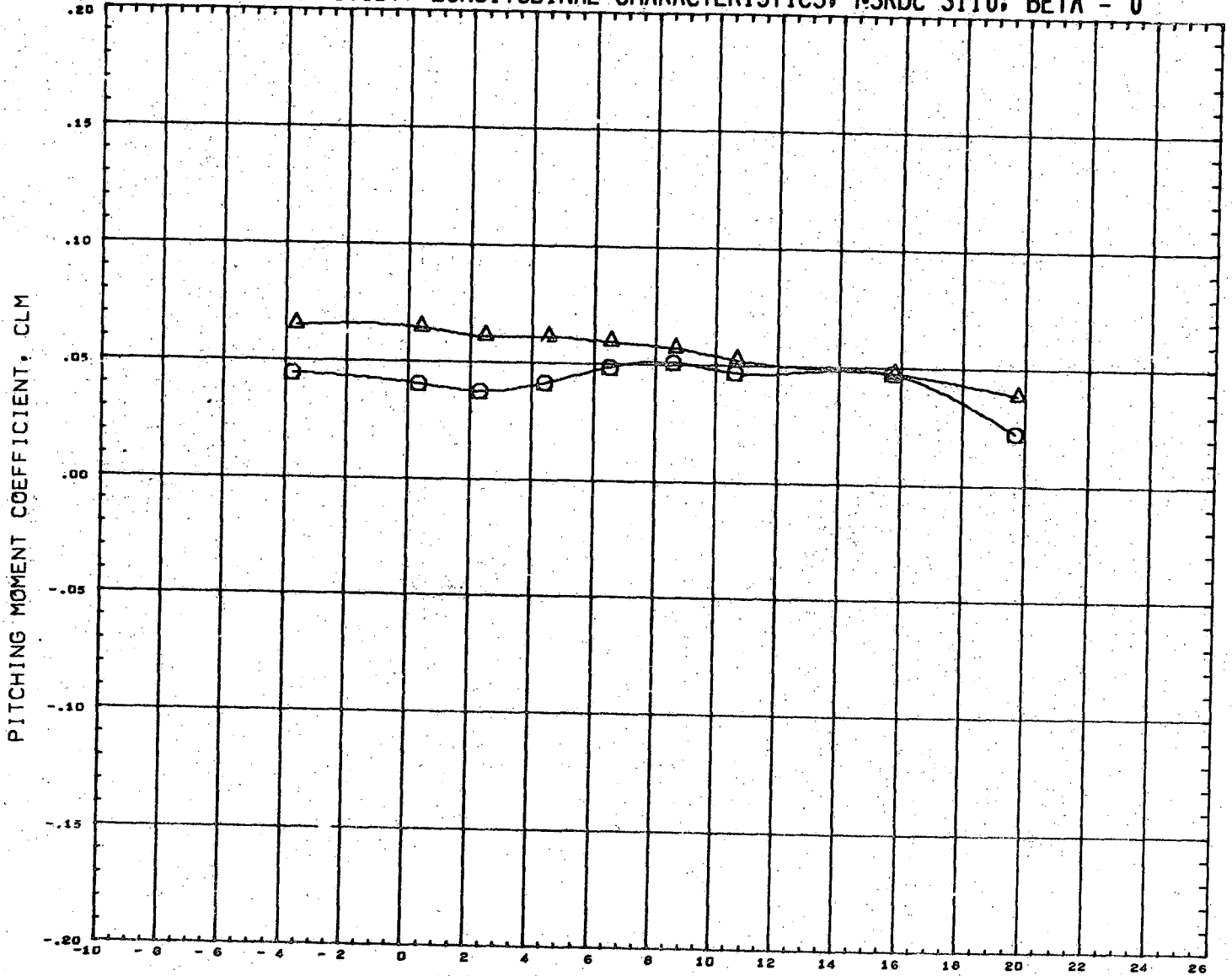
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2101)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2117)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.361

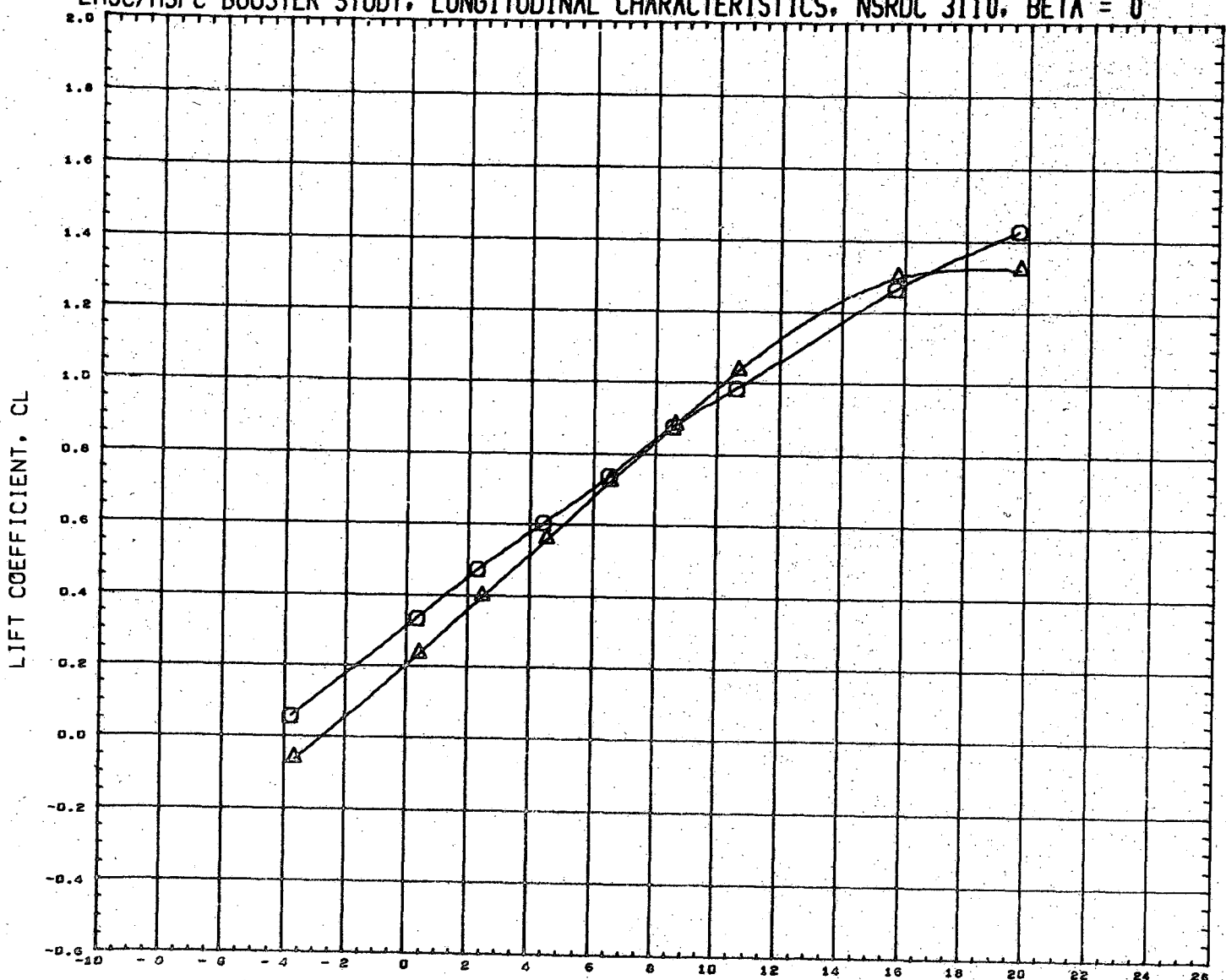
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2101)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2117)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

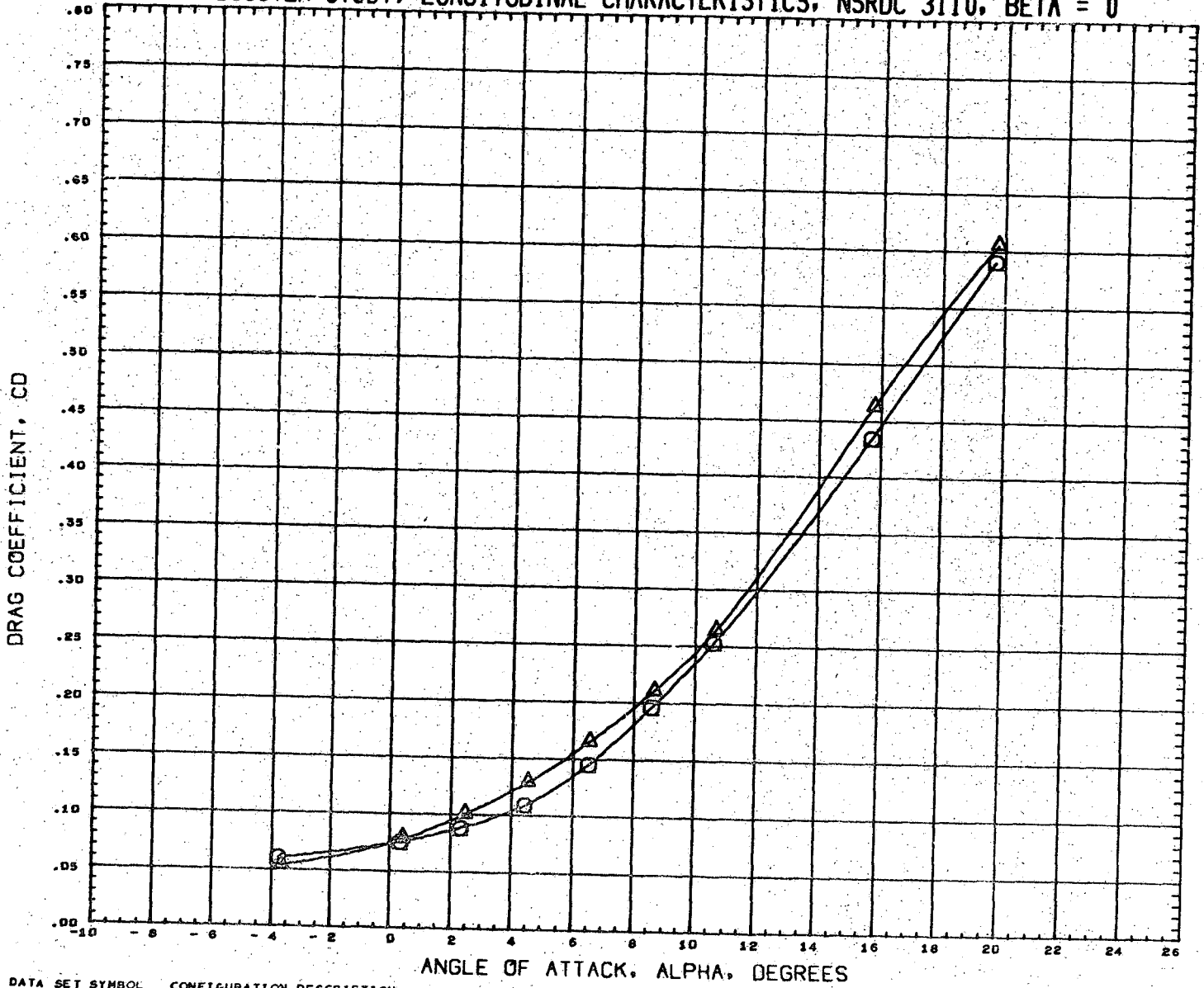


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2101)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2117)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

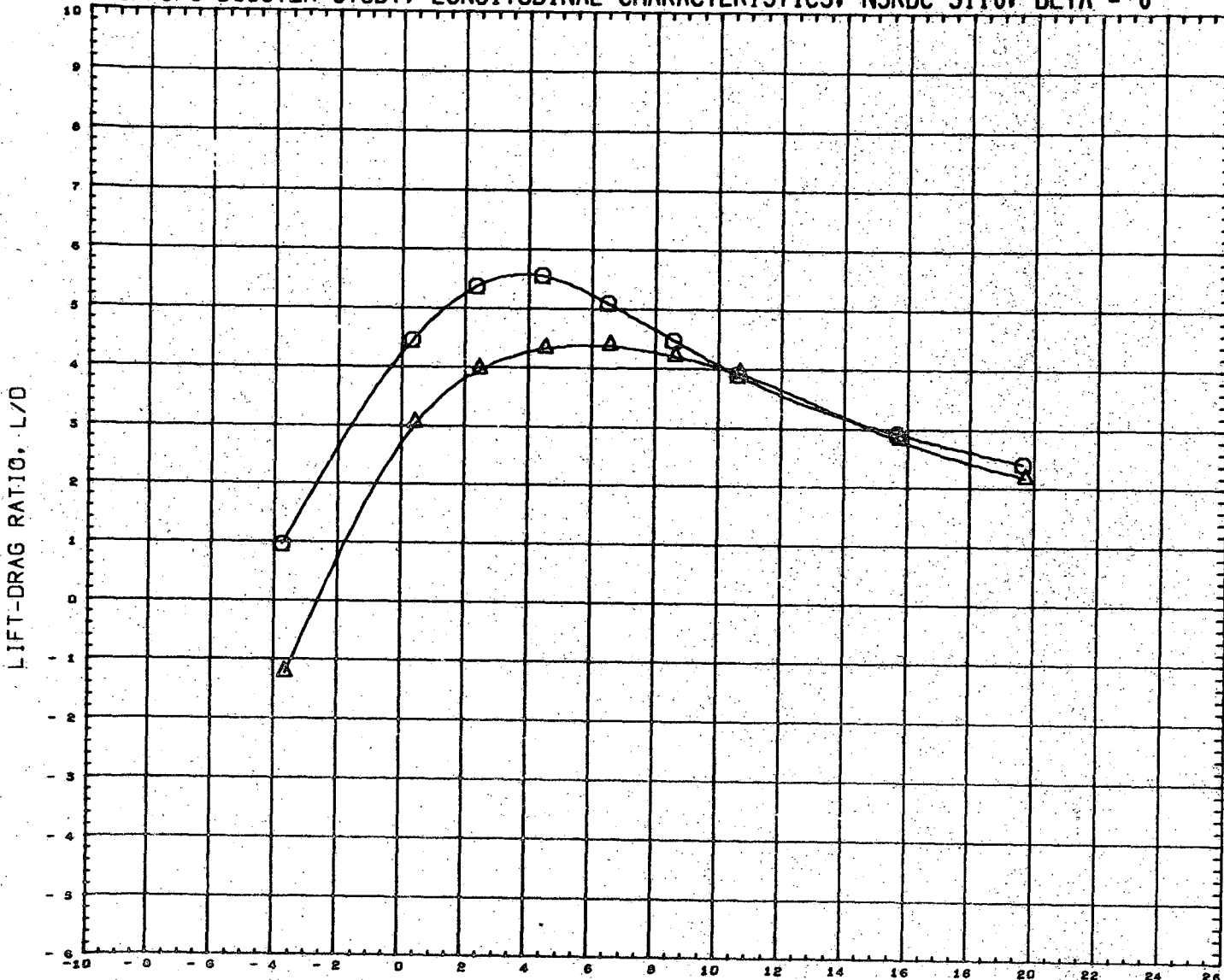
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2101)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2117)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2101) □
 (RN2117) △

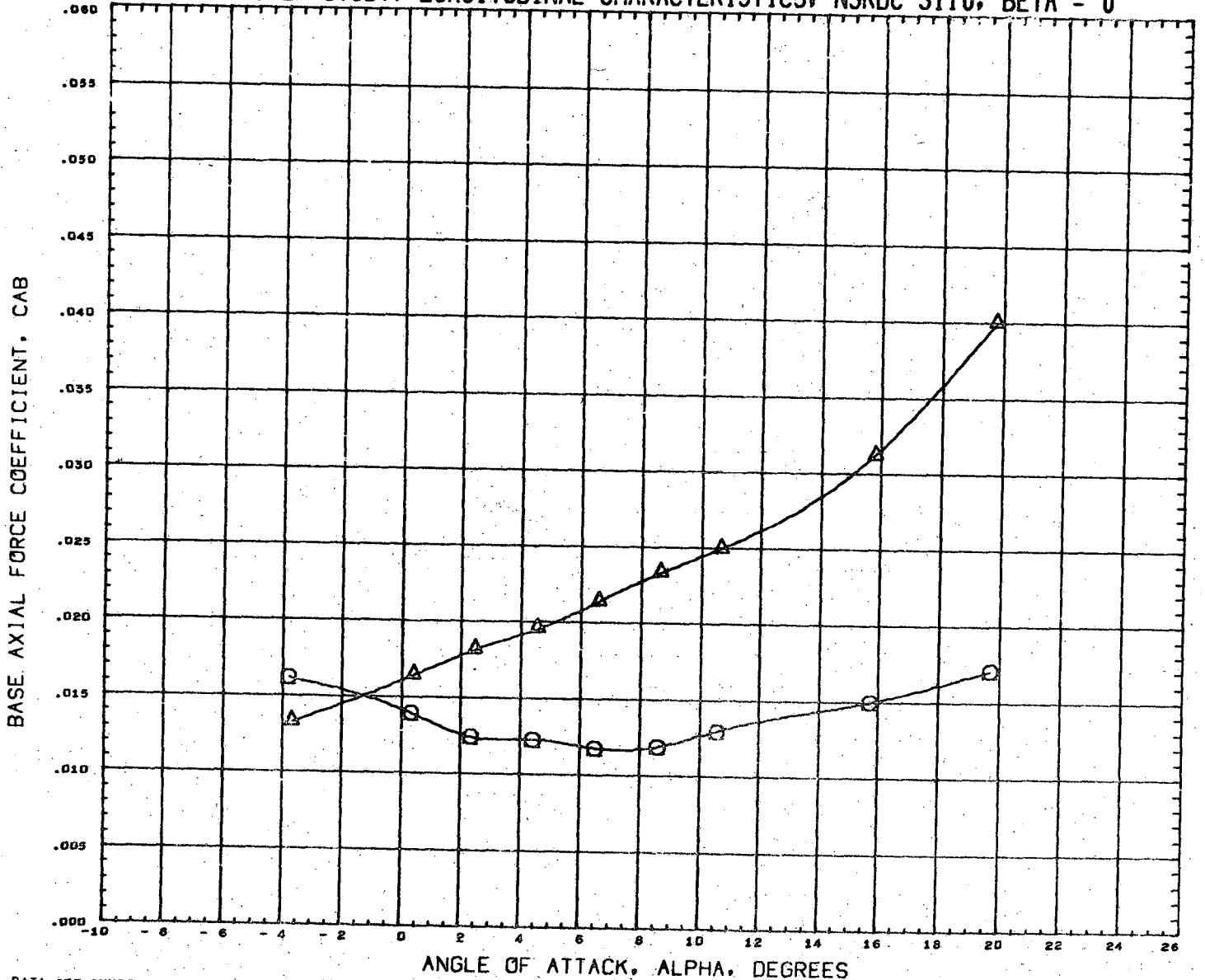
CONFIGURATION DESCRIPTION
 NSRDC-3110, NSFC/LHSC BOOSTER B1C1F1W1V1
 NSRDC-3110, NSFC/LHSC BOOSTER B1C1F1W1V1

INCIDC 15.000
 CNDPOS 1.000
 INCIDW 3.000
 WNGPOS 1.000
 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY. LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0

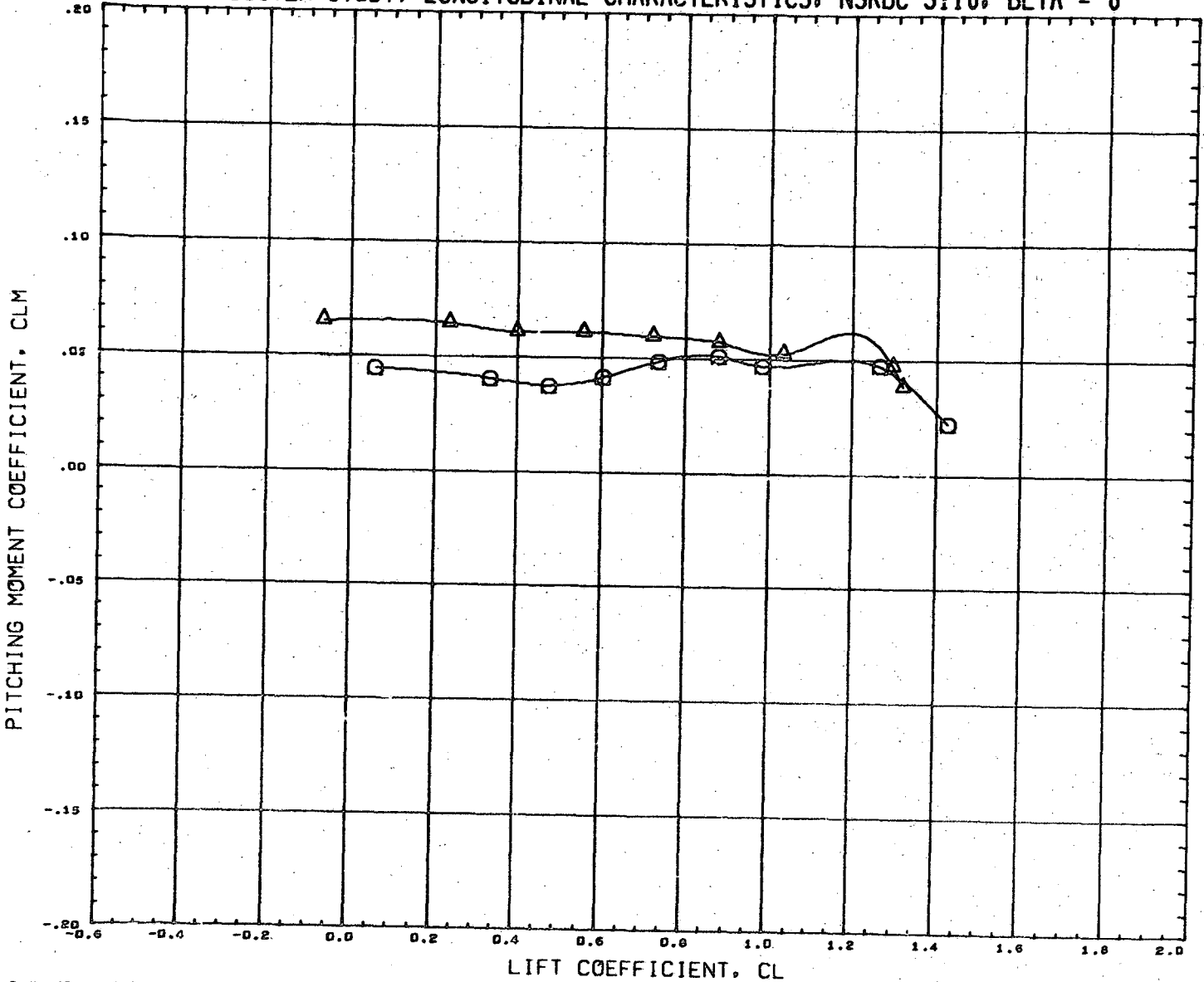


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2101) \circ	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2117) \triangle	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.0000 PERCENT

MACH 0.381

15④

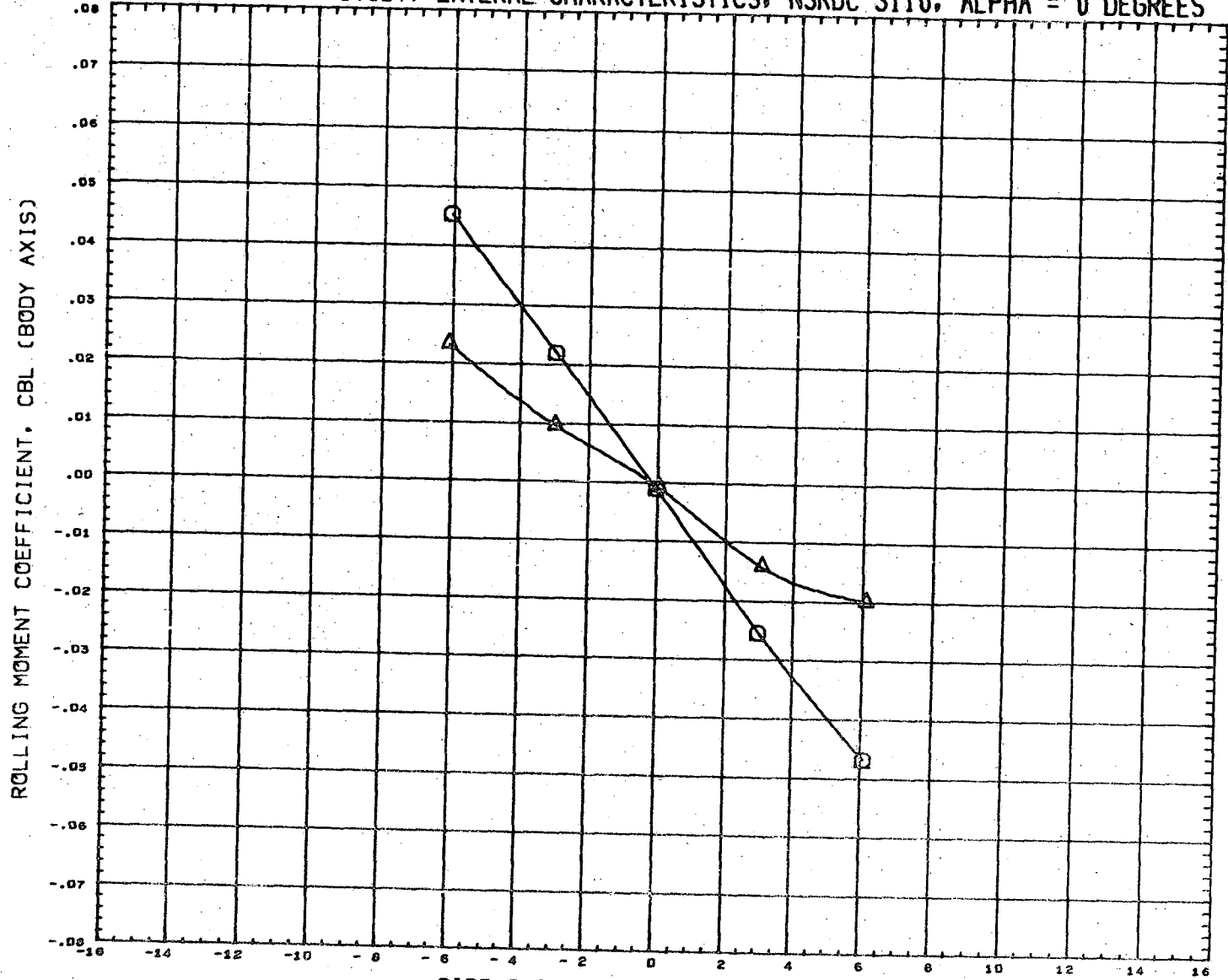
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2101)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2117)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES

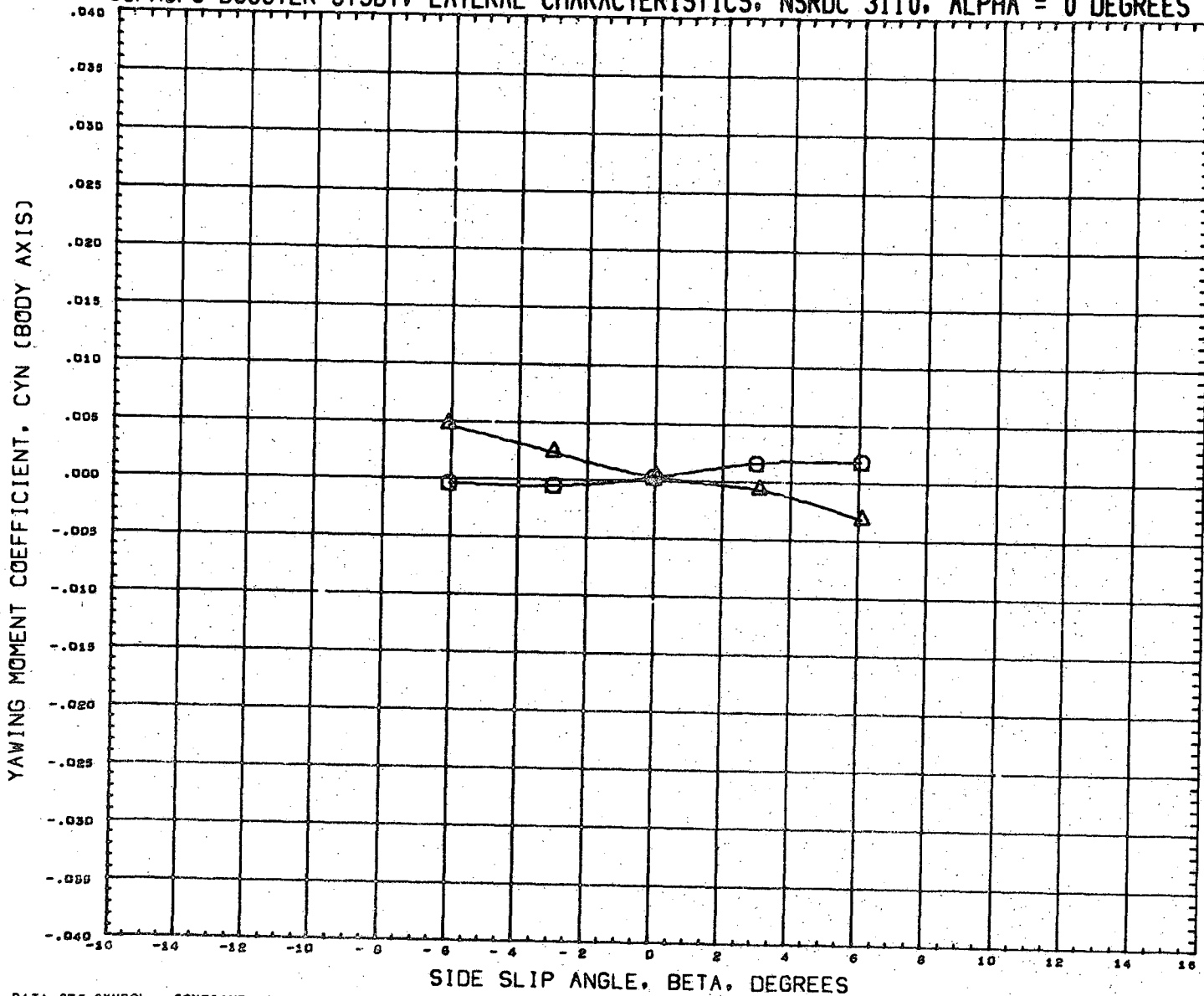


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2102)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2110)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XHRP 31.1400 INCHES
						YHRP 0.0000 INCHES
						ZHRP 0.2200 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2102) Q
(RN2110) A

CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1

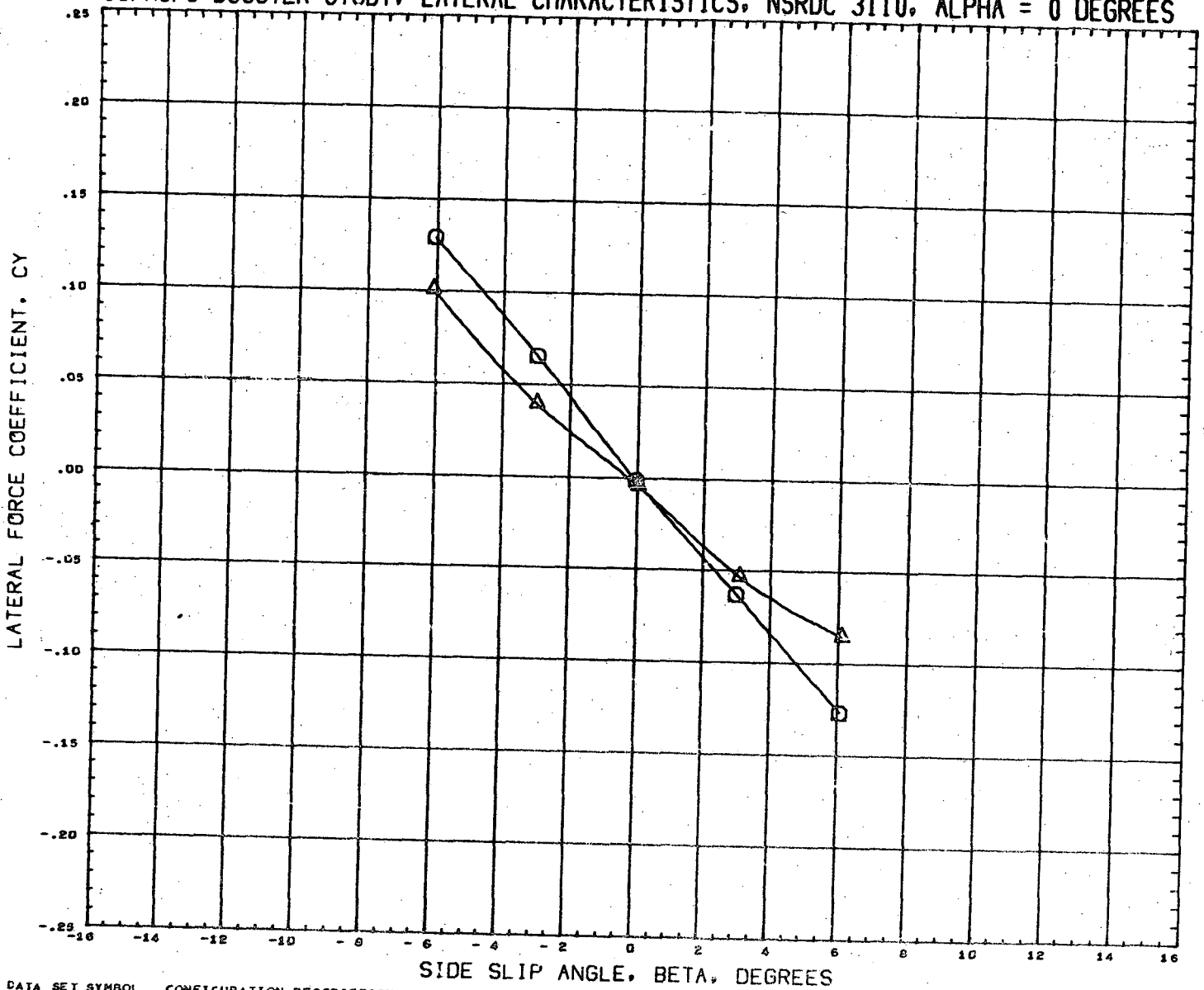
INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION

SREF	1.3550	SO. FT.
LREF	41.4360	INCHES
BREF	41.4360	INCHES
XMRP	31.1400	INCHES
YMRP	0.0000	INCHES
ZMRP	0.2250	INCHES
SCALE	1.5000	PERCENT

MACH 0.380

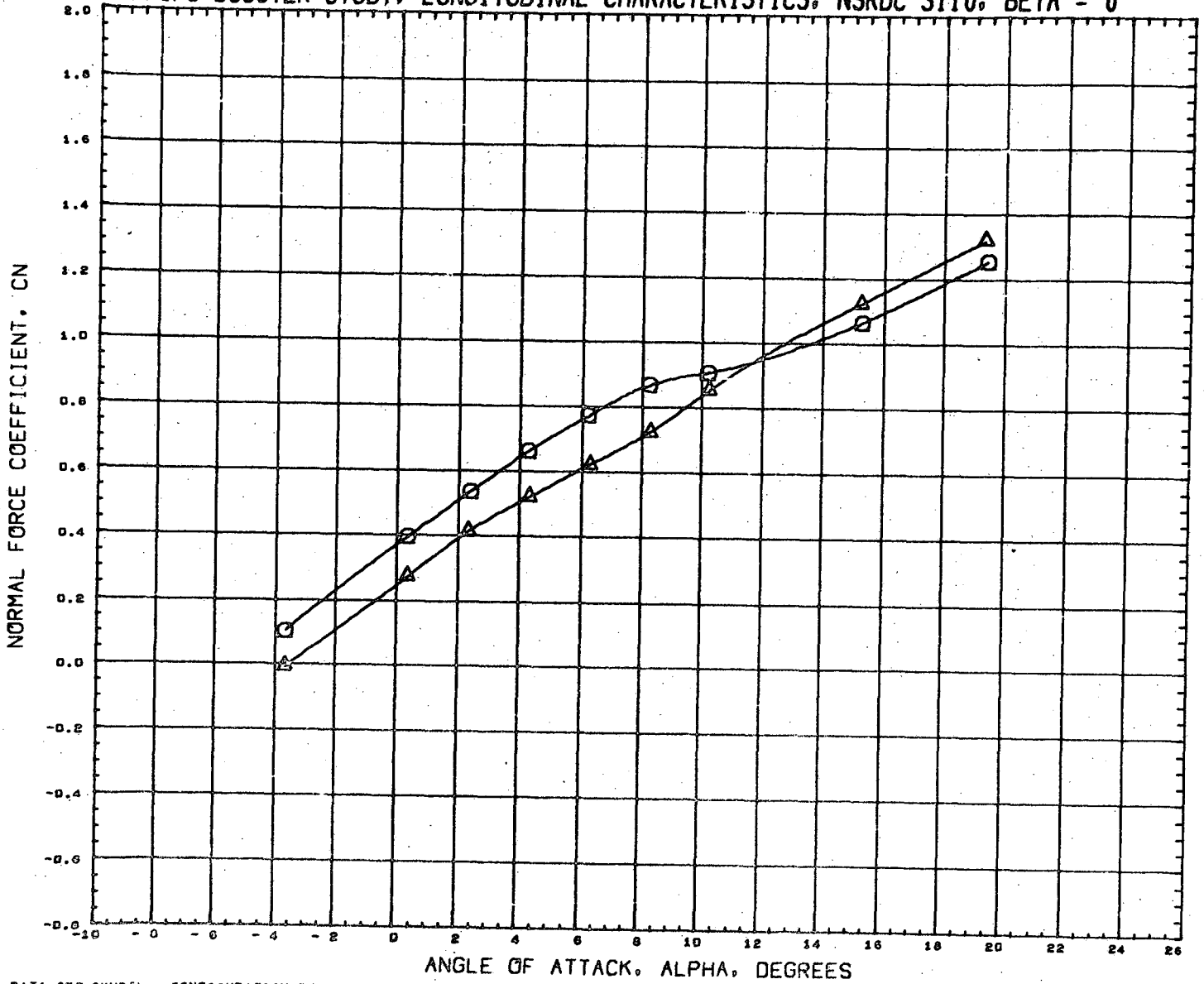
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2102)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2116)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2109)
(RN2129)

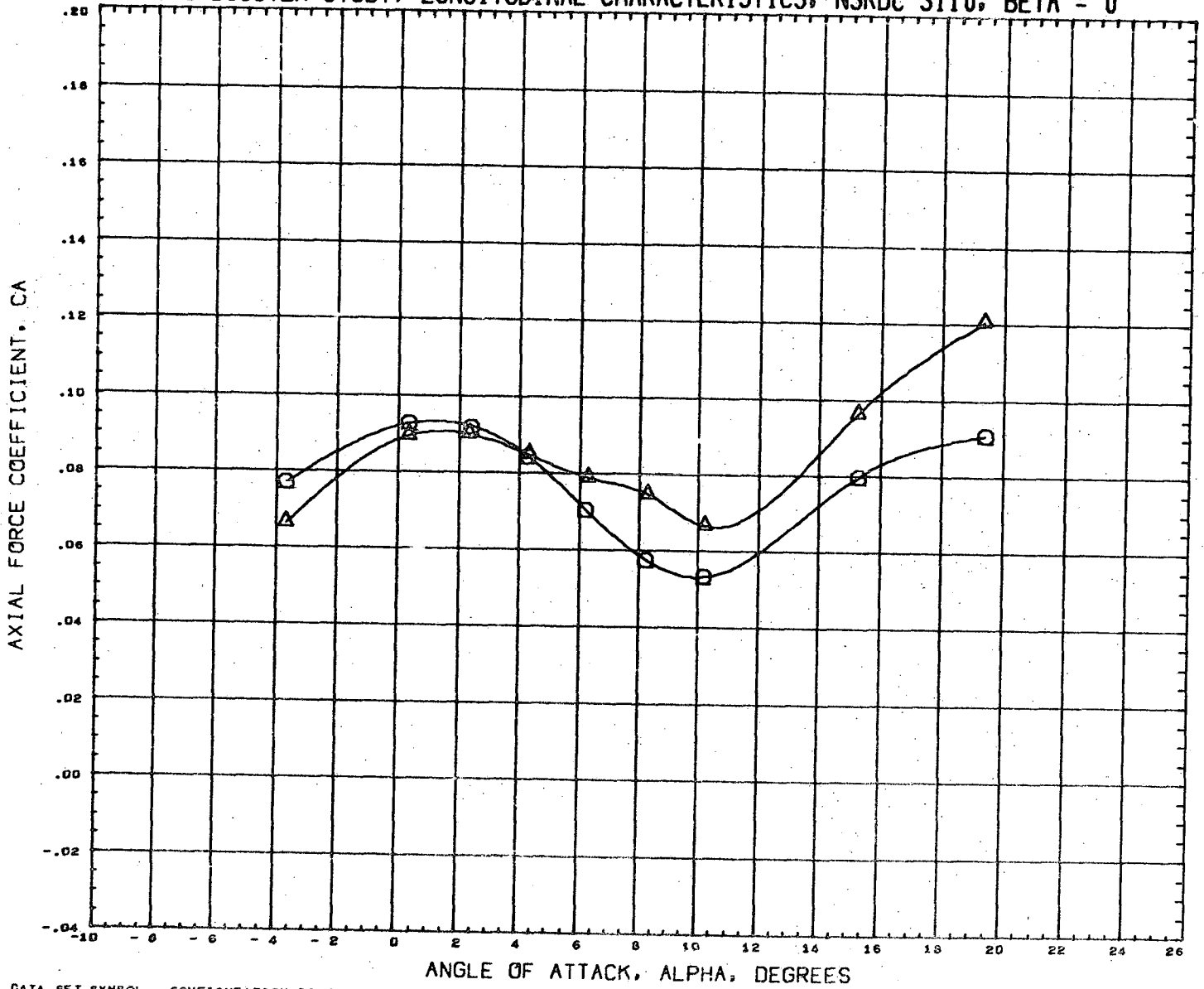
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC CNDPOS INCIDW WNGPOS
15.000 2.000 3.000 1.000
15.000 2.000 3.000 2.000

REFERENCE INFORMATION
SREF 1.3550 SQ. FT.
LREF 41.4360 INCHES
BREF 41.4360 INCHES
XMRP 31.1400 INCHES
YMRP 0.0000 INCHES
ZMRP 0.2250 INCHES
SCALE 1.5000 PERCENT

MACH 0.361

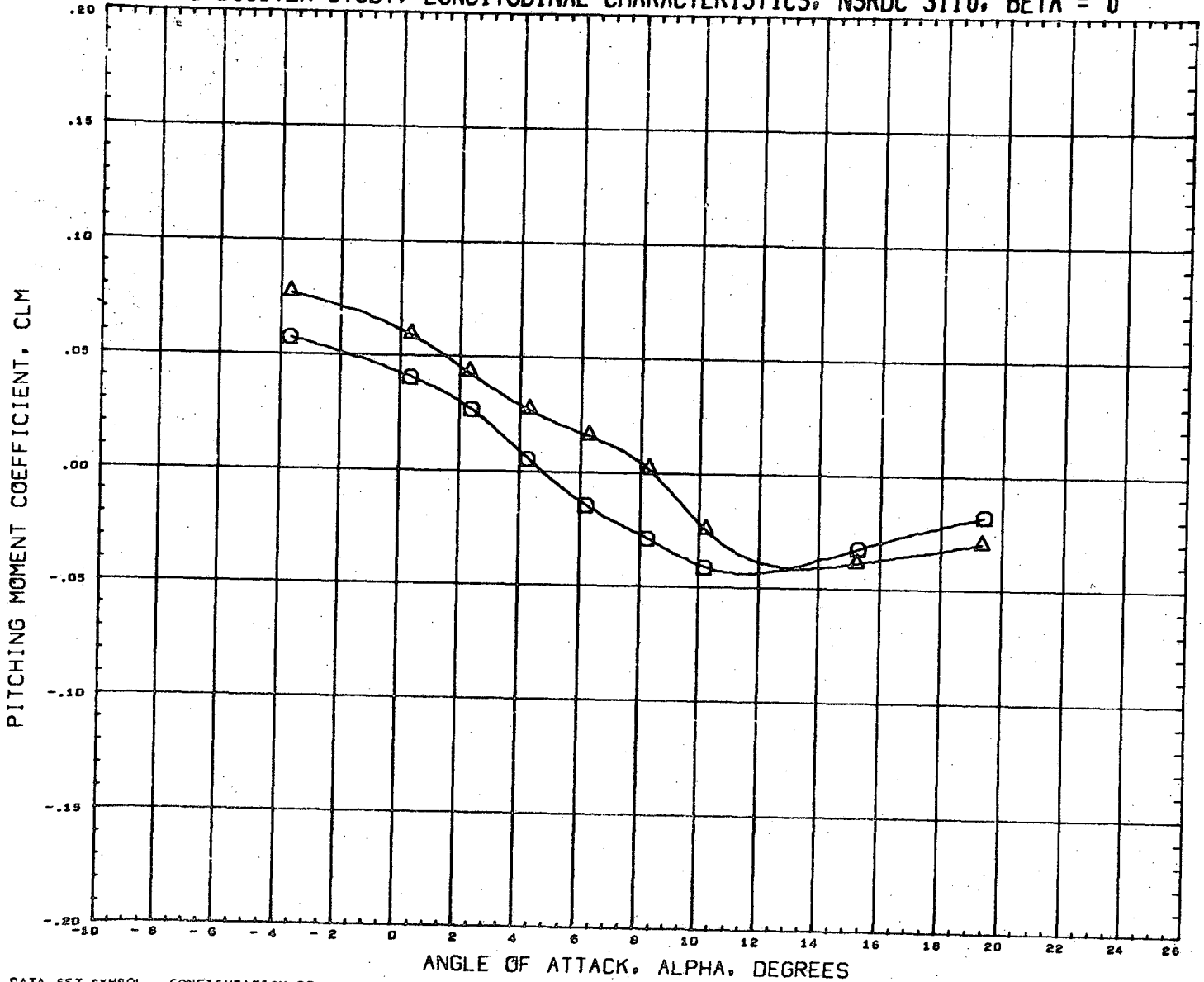
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2109)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF	1.3550 SQ. FT.
(RN2125)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
 (RN2109) 
 (RN2125) 

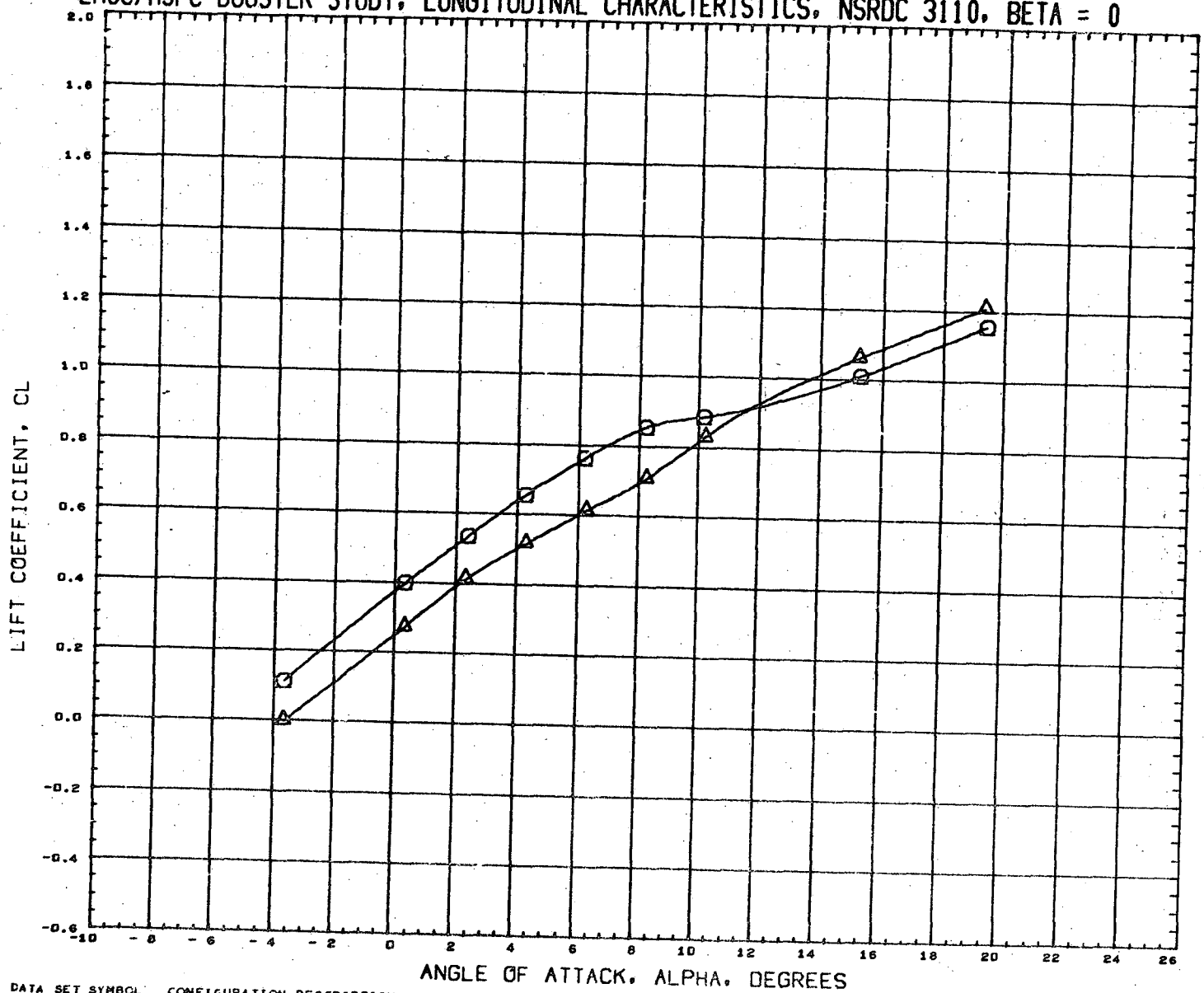
CONFIGURATION DESCRIPTION
 NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
 NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC CNDPOS INCIDW WNGFOS
 15.000 2.000 3.000 1.000
 15.000 2.000 3.000 2.000

REFERENCE INFORMATION
 SREF 1.3550 SQ. FT.
 LREF 41.4360 INCHES
 BREF 41.4360 INCHES
 XMRP 31.1400 INCHES
 YMRP 0.0000 INCHES
 ZMRP 0.2250 INCHES
 SCALE 1.5000 PERCNT

MACH 0.381

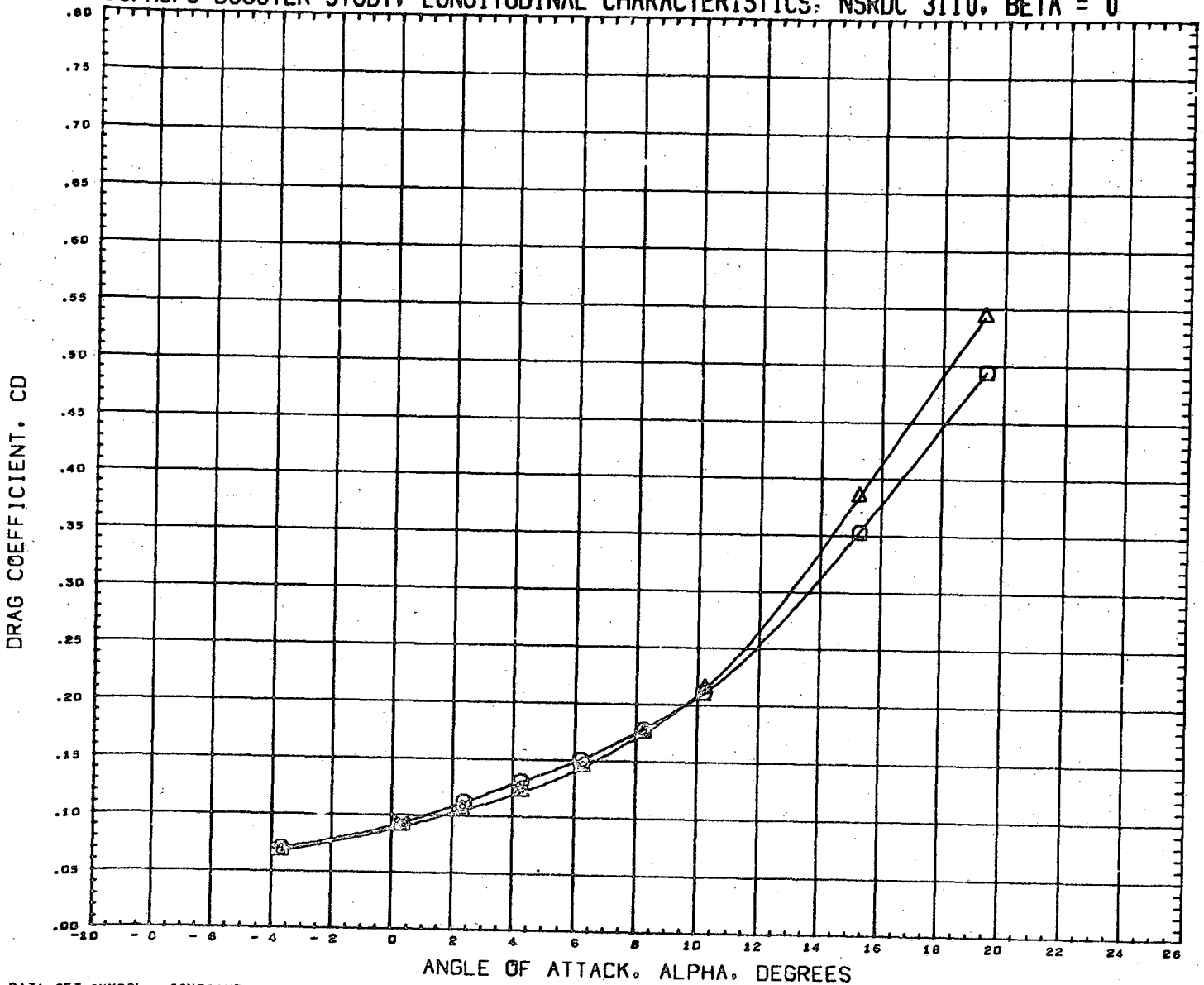
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2109)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2125)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2109) □	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2125) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.381

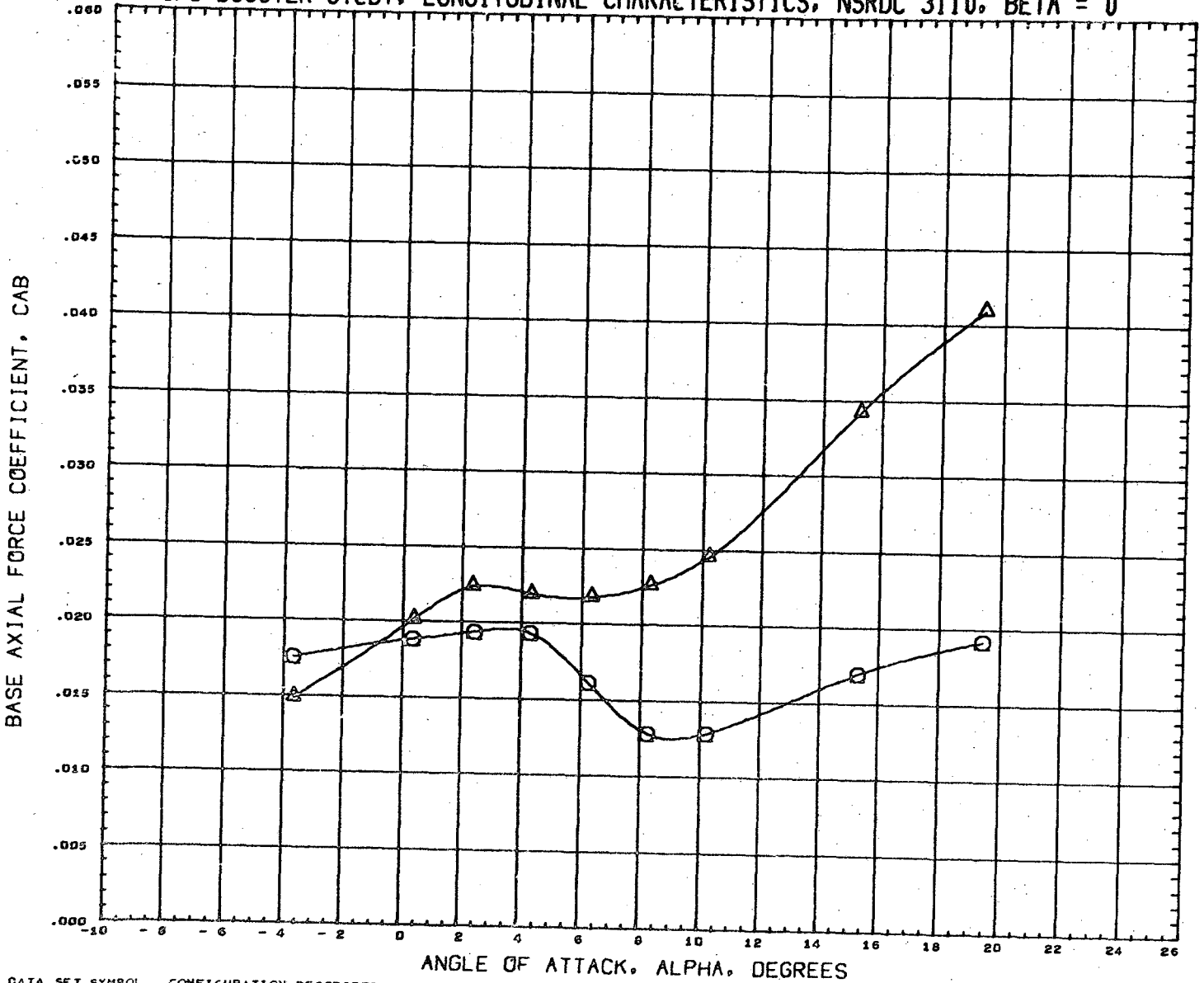
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2109)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2125)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH D.381

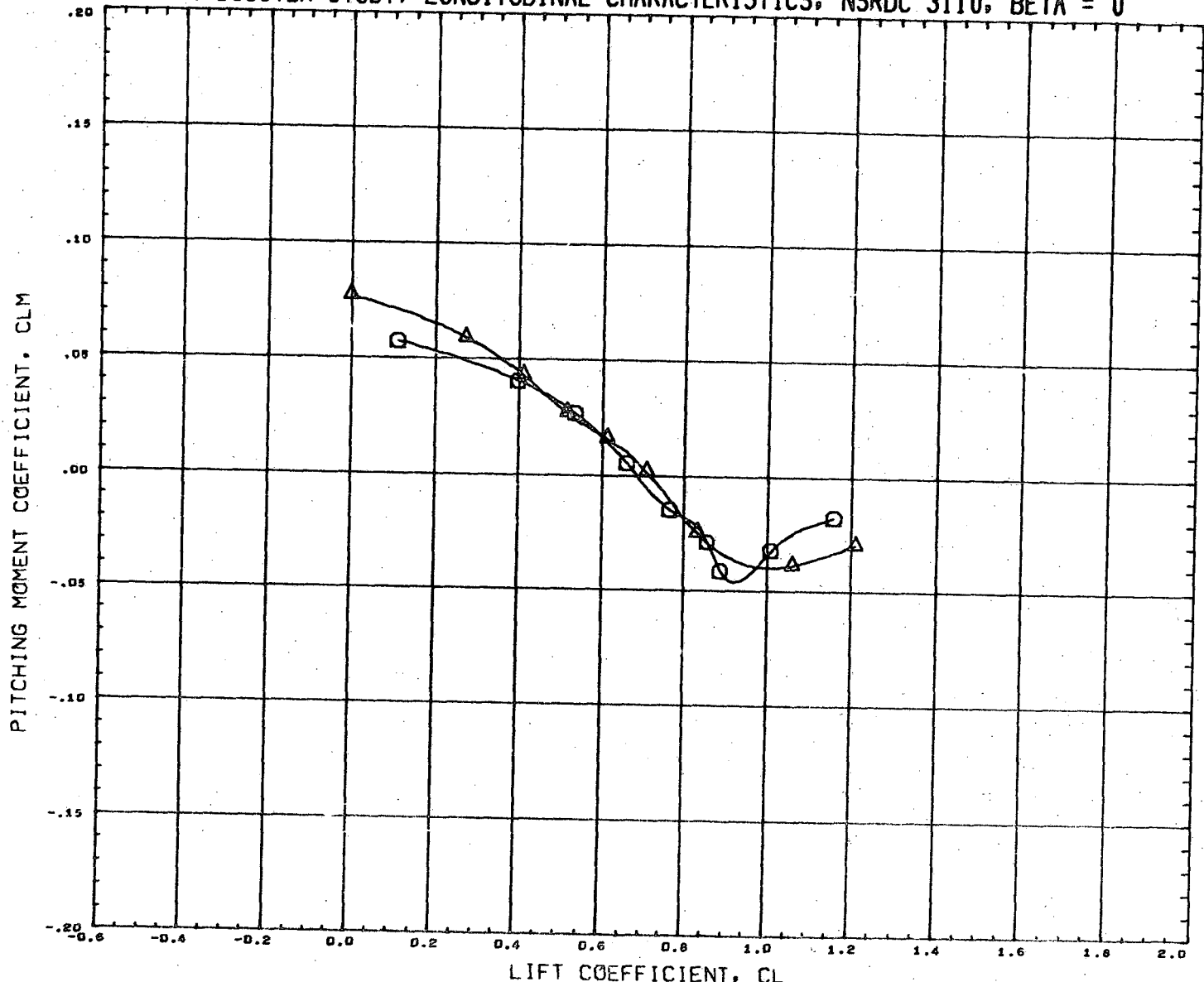
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2109)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2125)	NSRDC-3110, MSFC/LHSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

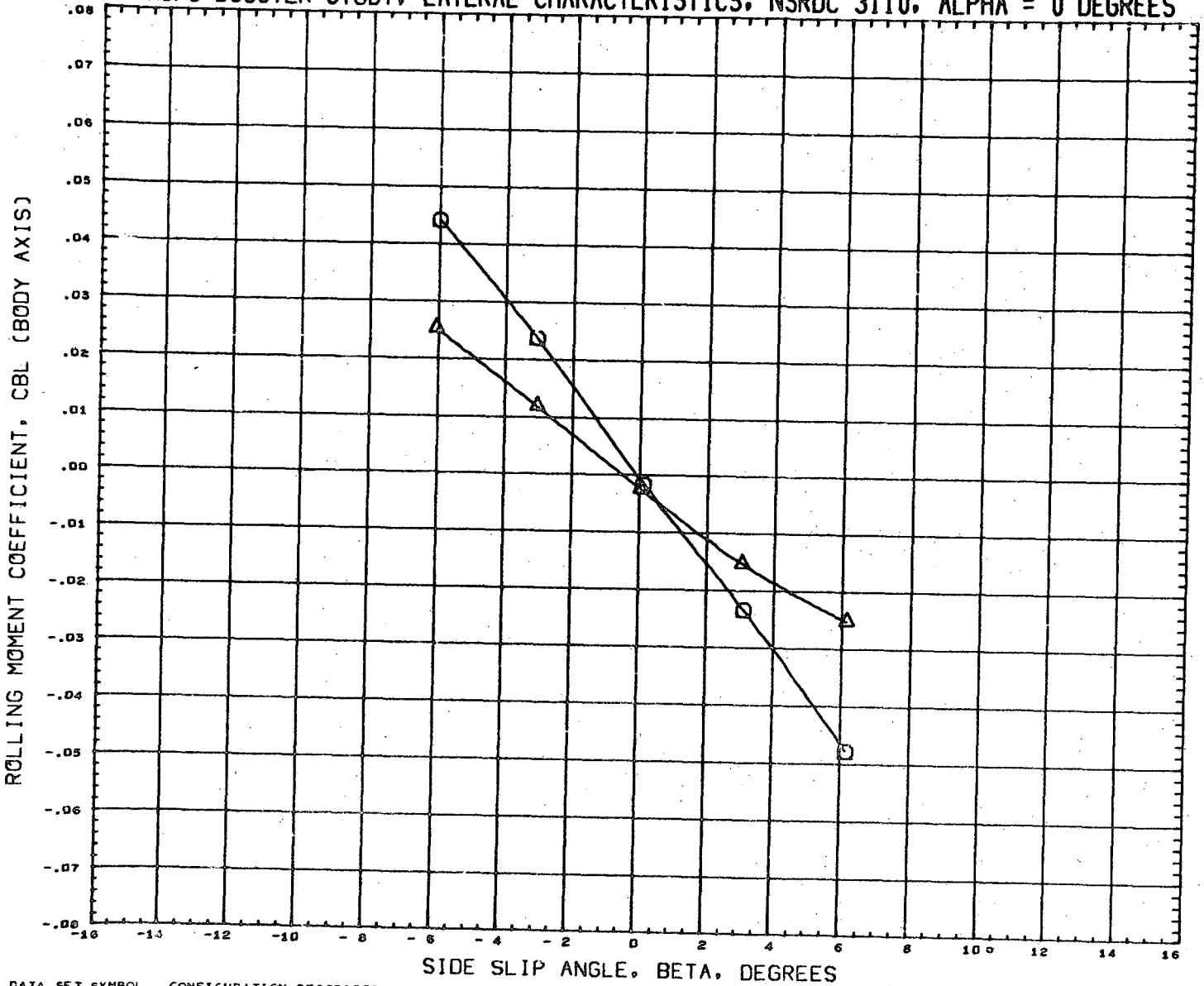
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2109)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 90.FT.
(RN2125)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



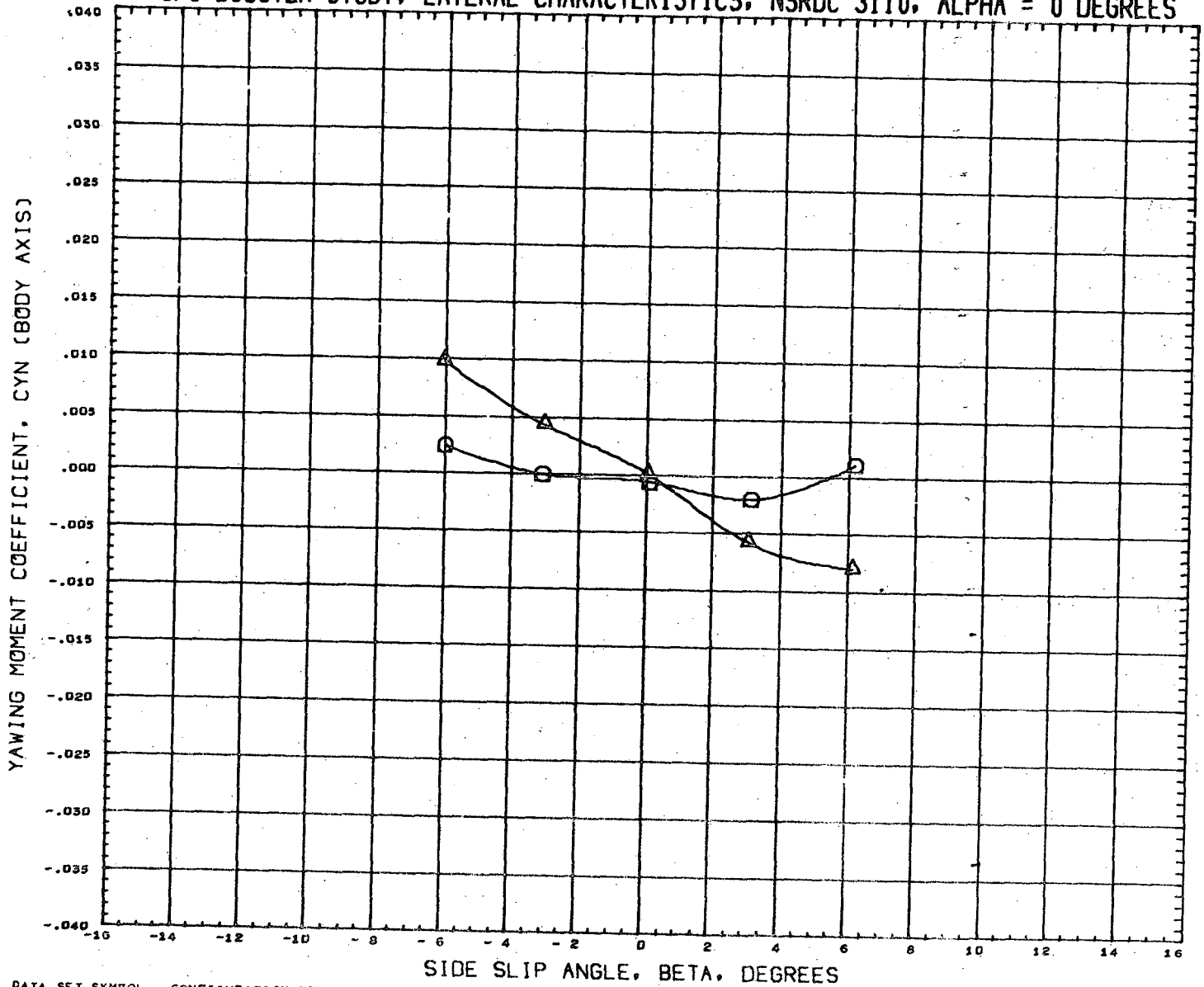
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RN2110) □	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1
(RN2126) △	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	2.000	3.000	1.000
15.000	2.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ.FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.380

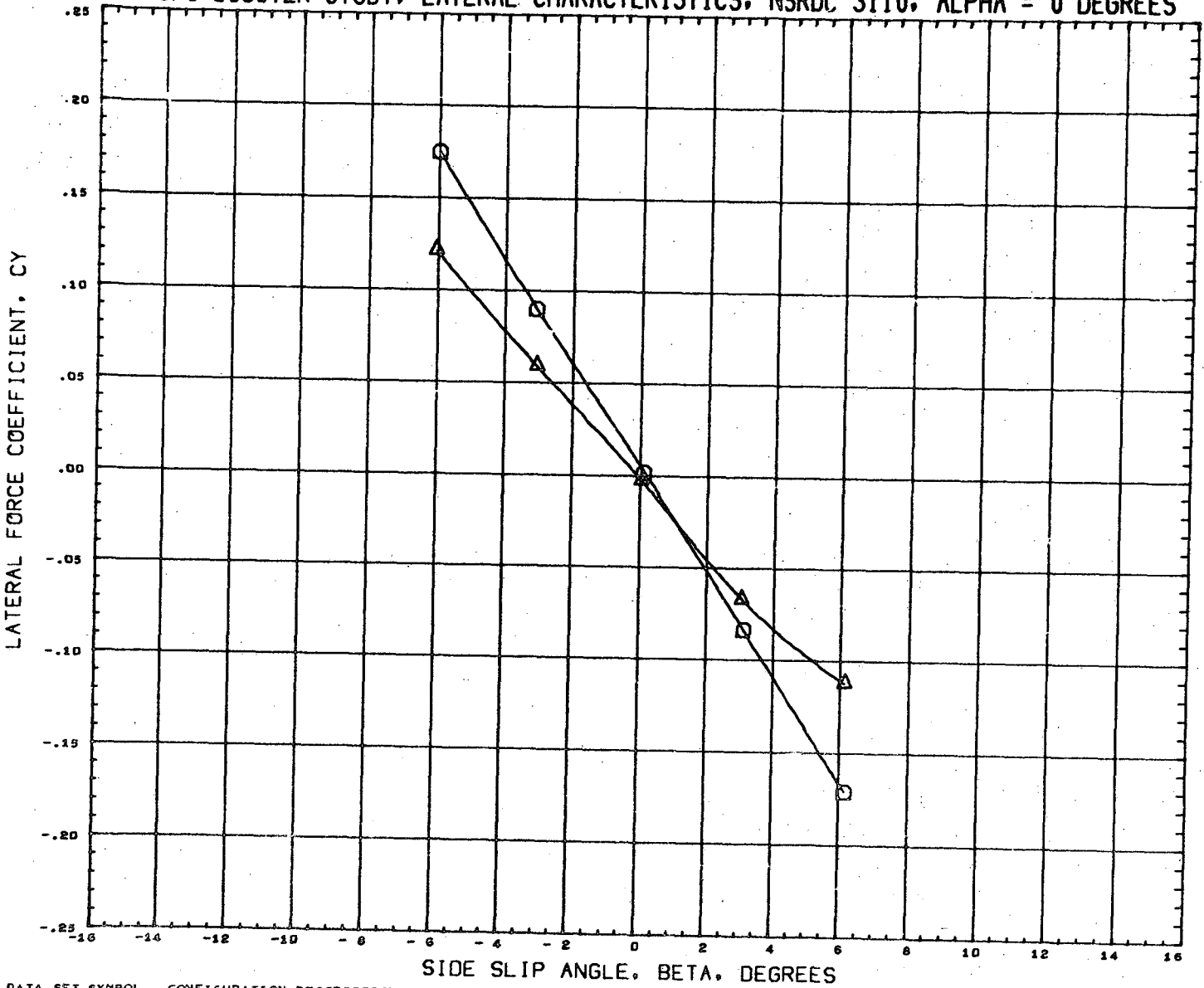
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2110)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2126)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.380

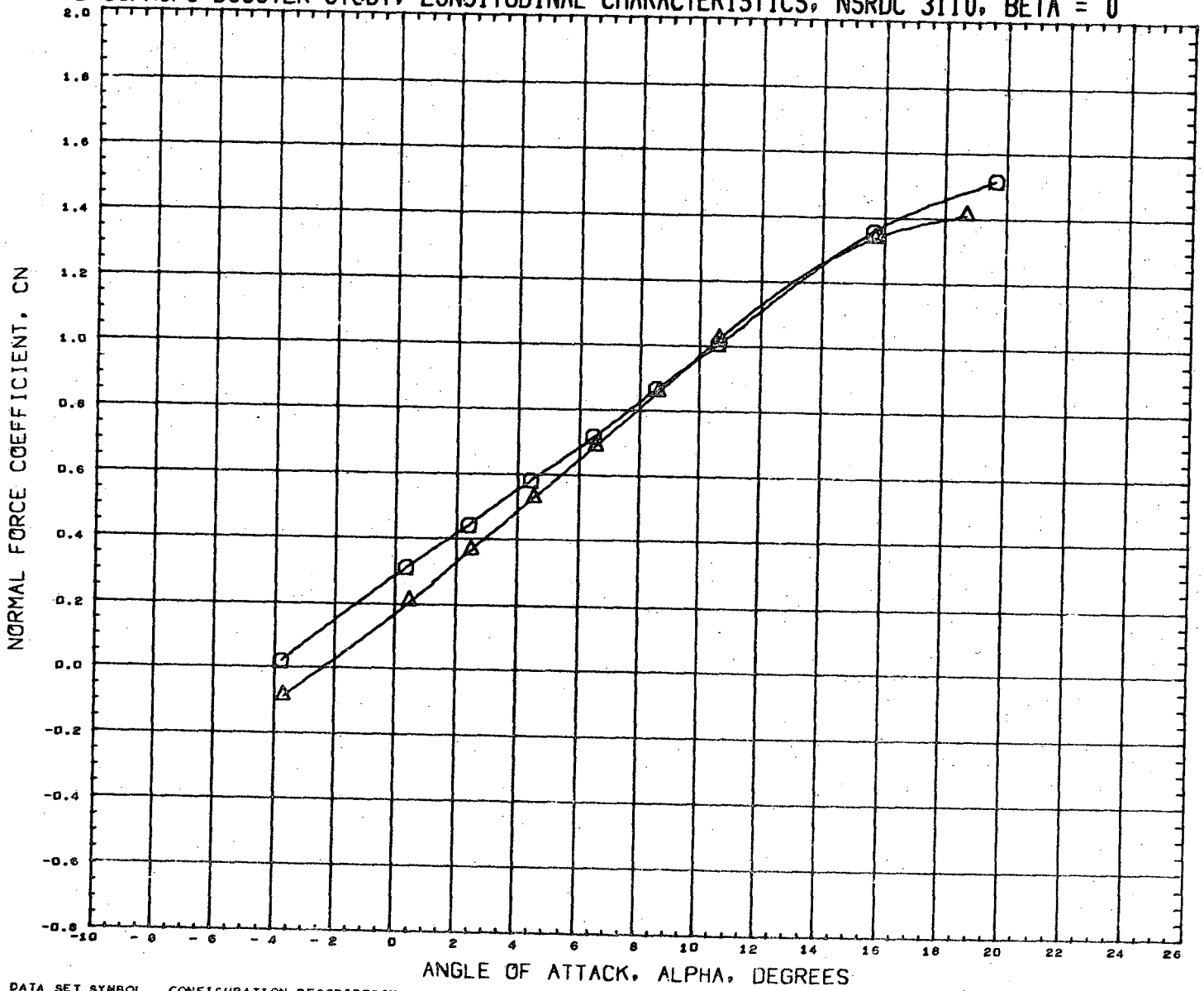
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2110)	NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2126)	NSRDC-3110,HSFC/LMSC BOOSTER B1C1F1W1V1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.380

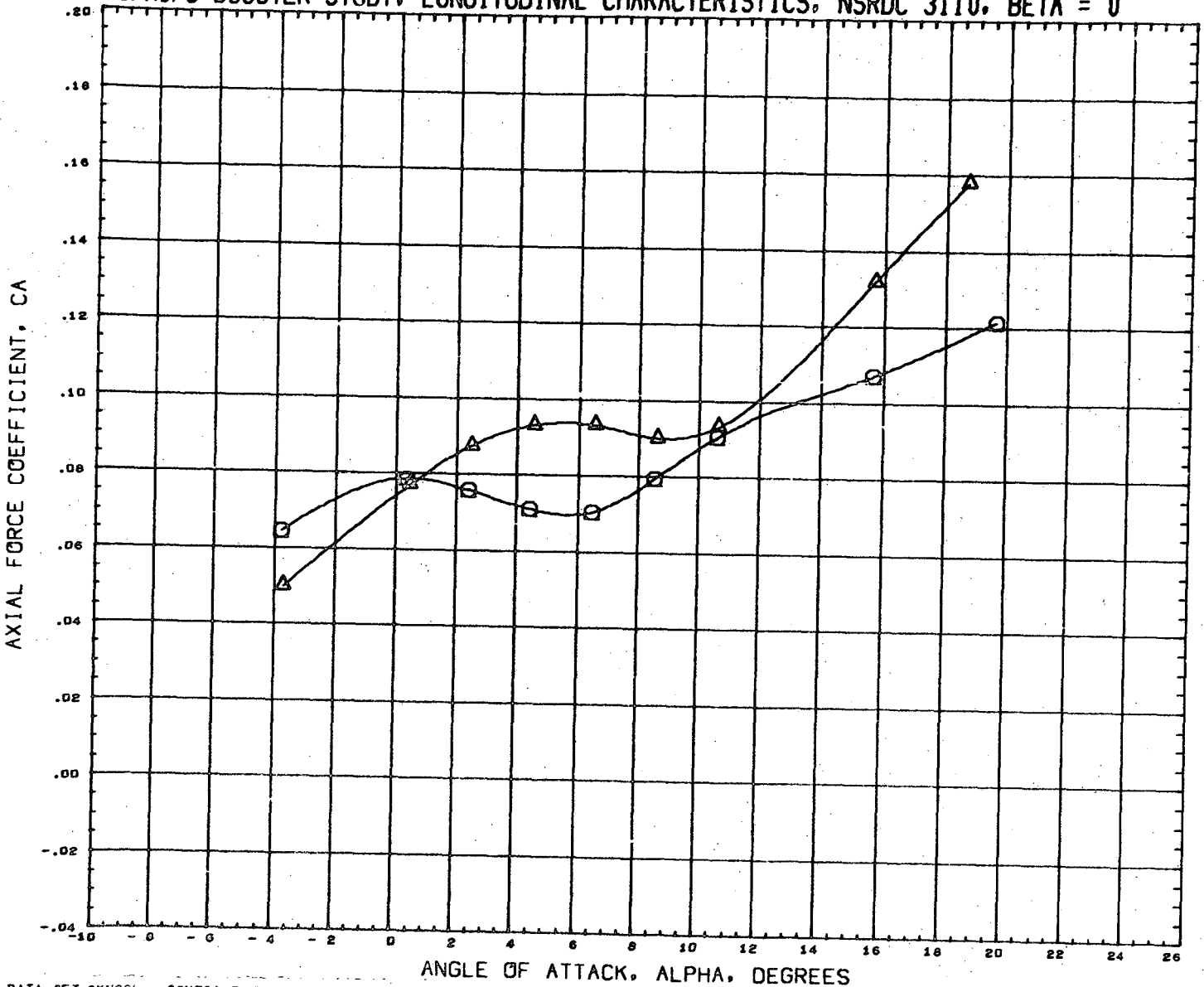
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2165)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2181)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

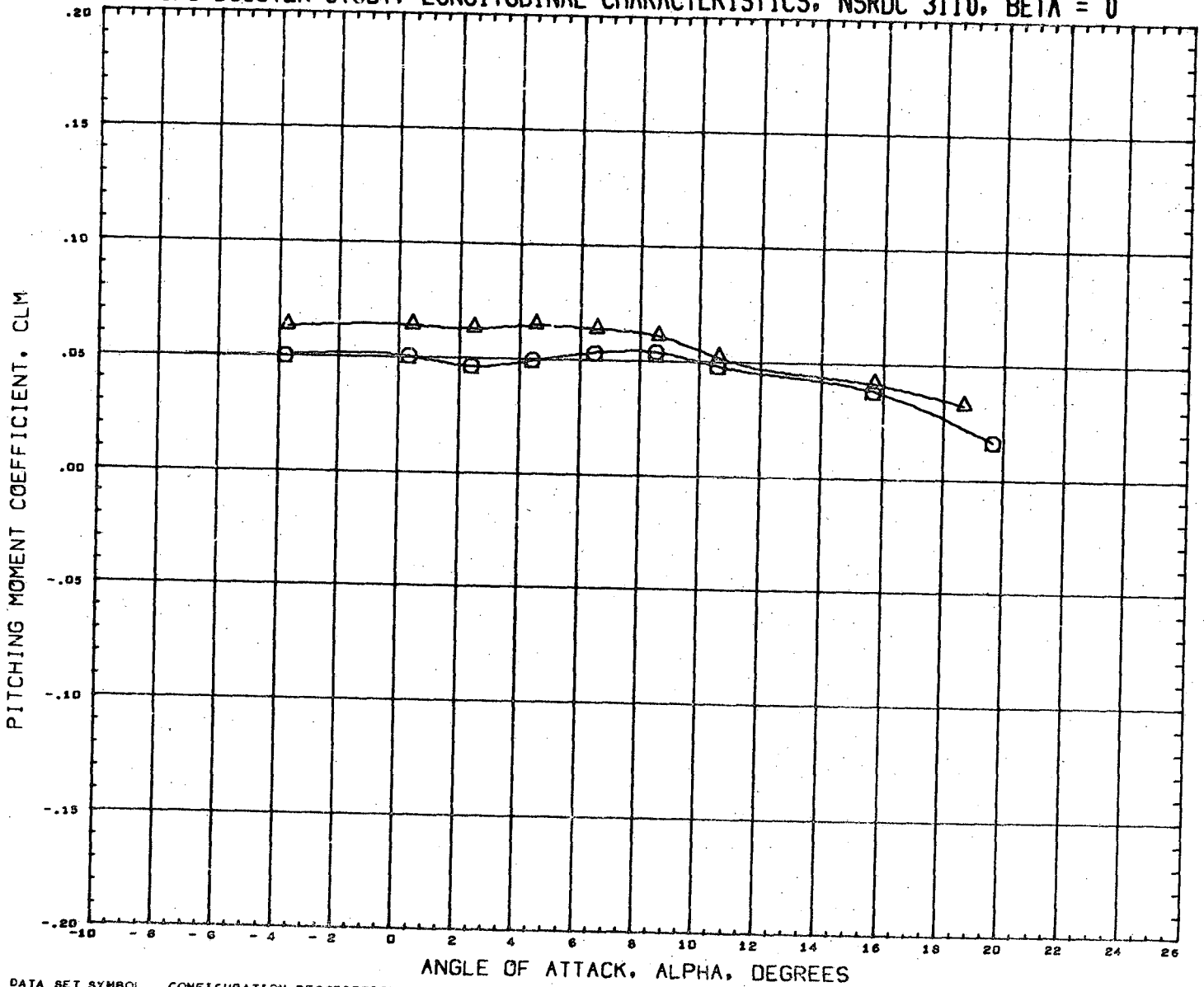
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2165)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2161)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XHRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.382

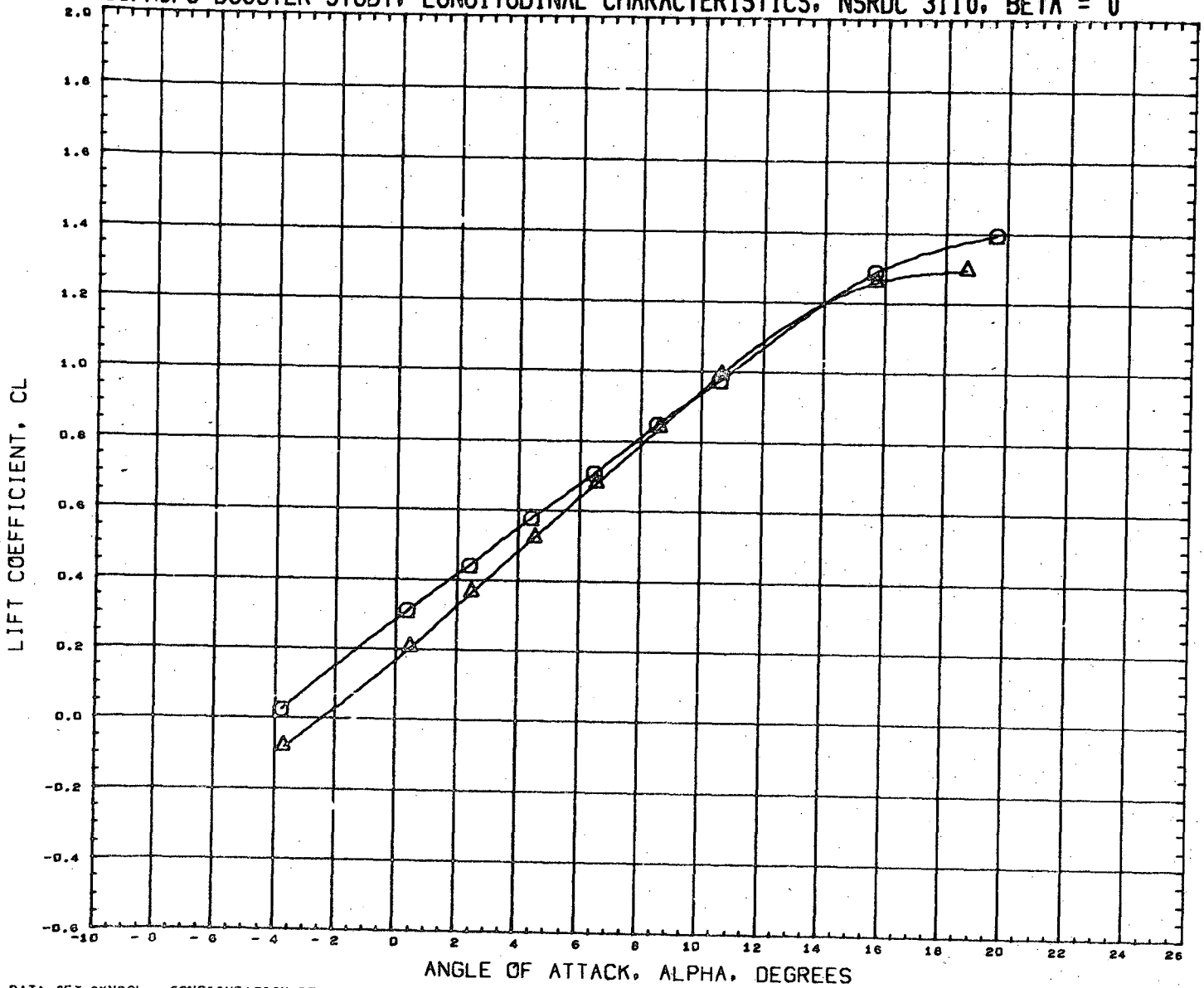
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCICW	WNGPOS	REFERENCE INFORMATION	
(RN2165)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.392

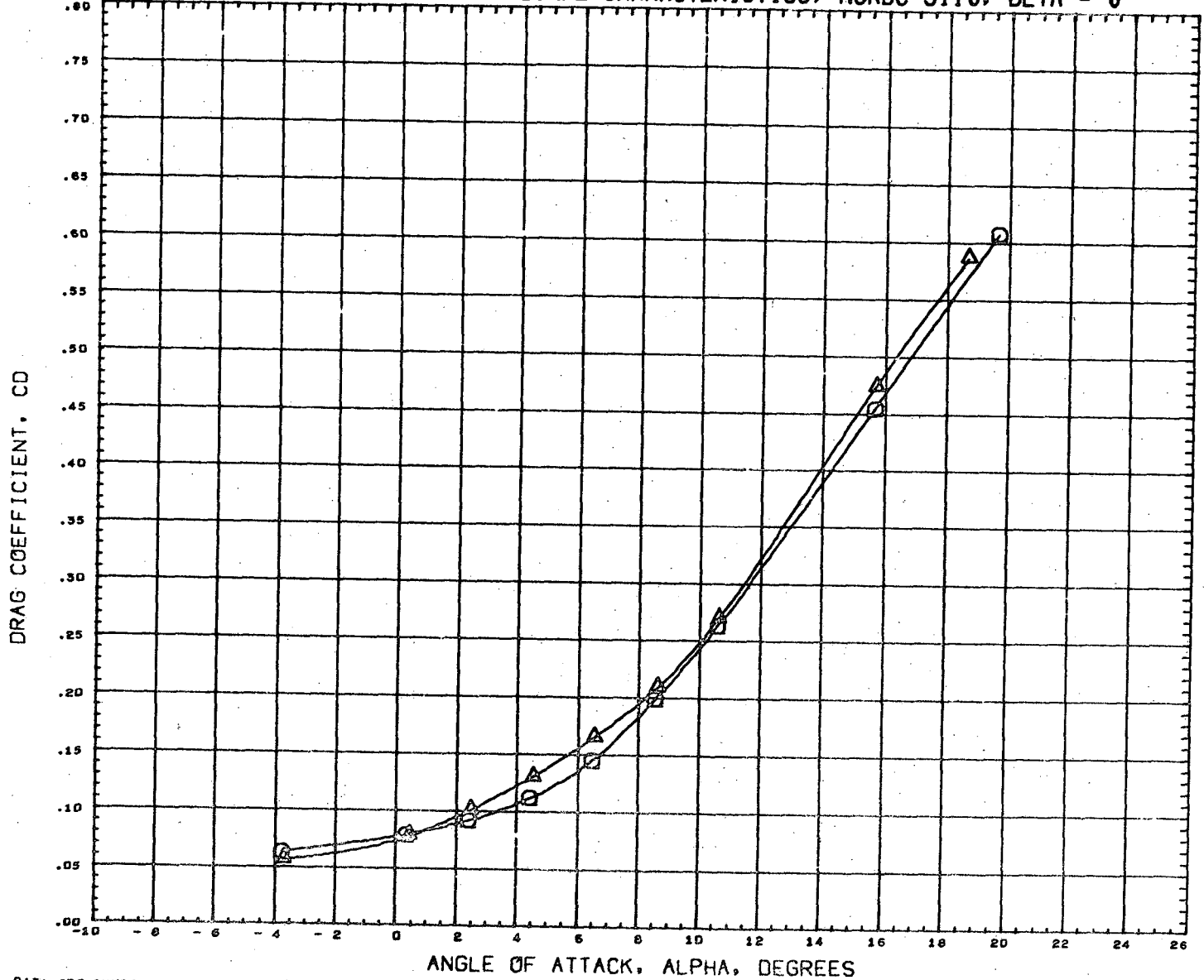
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2165)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.392

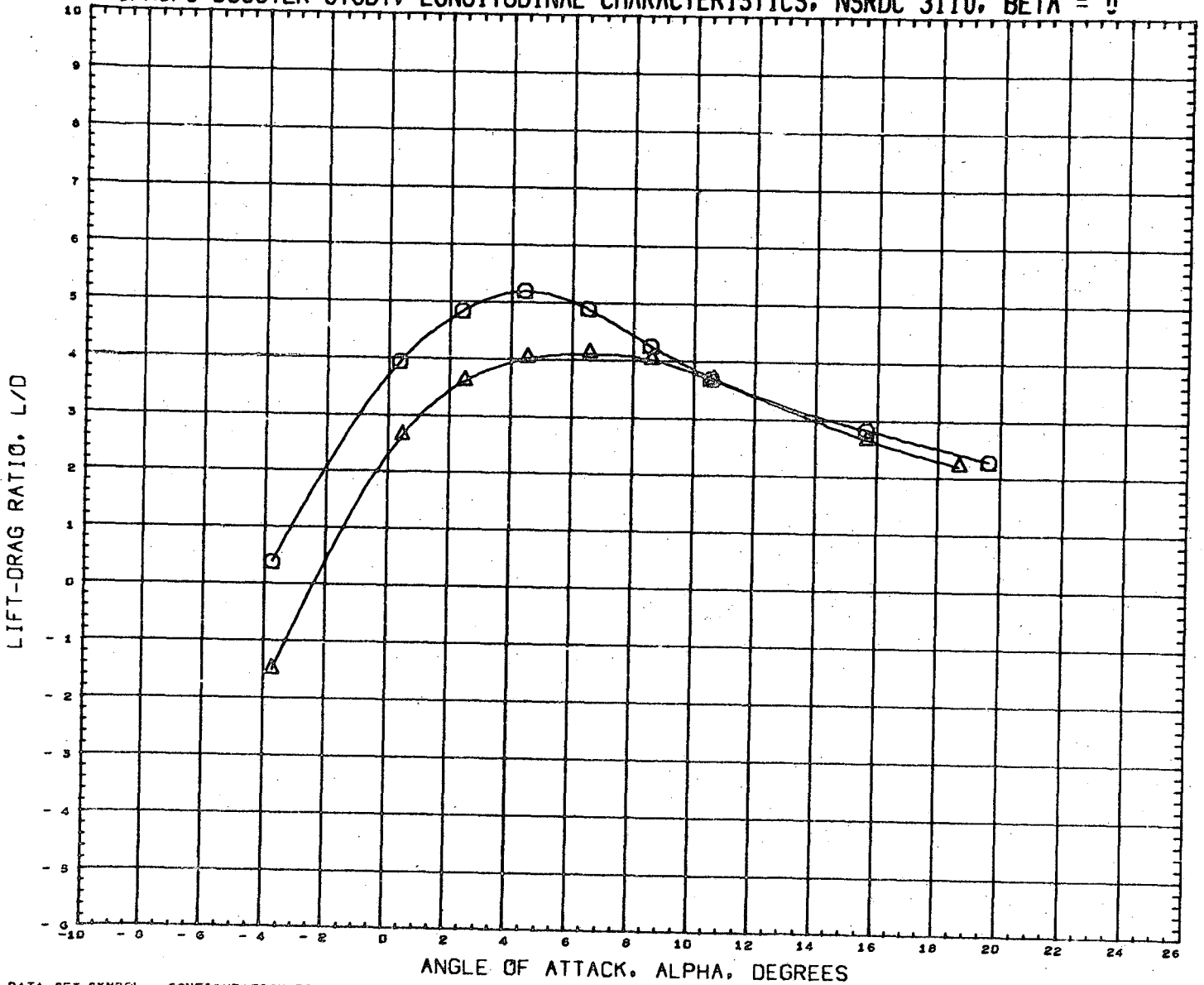
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2165)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2181)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.382

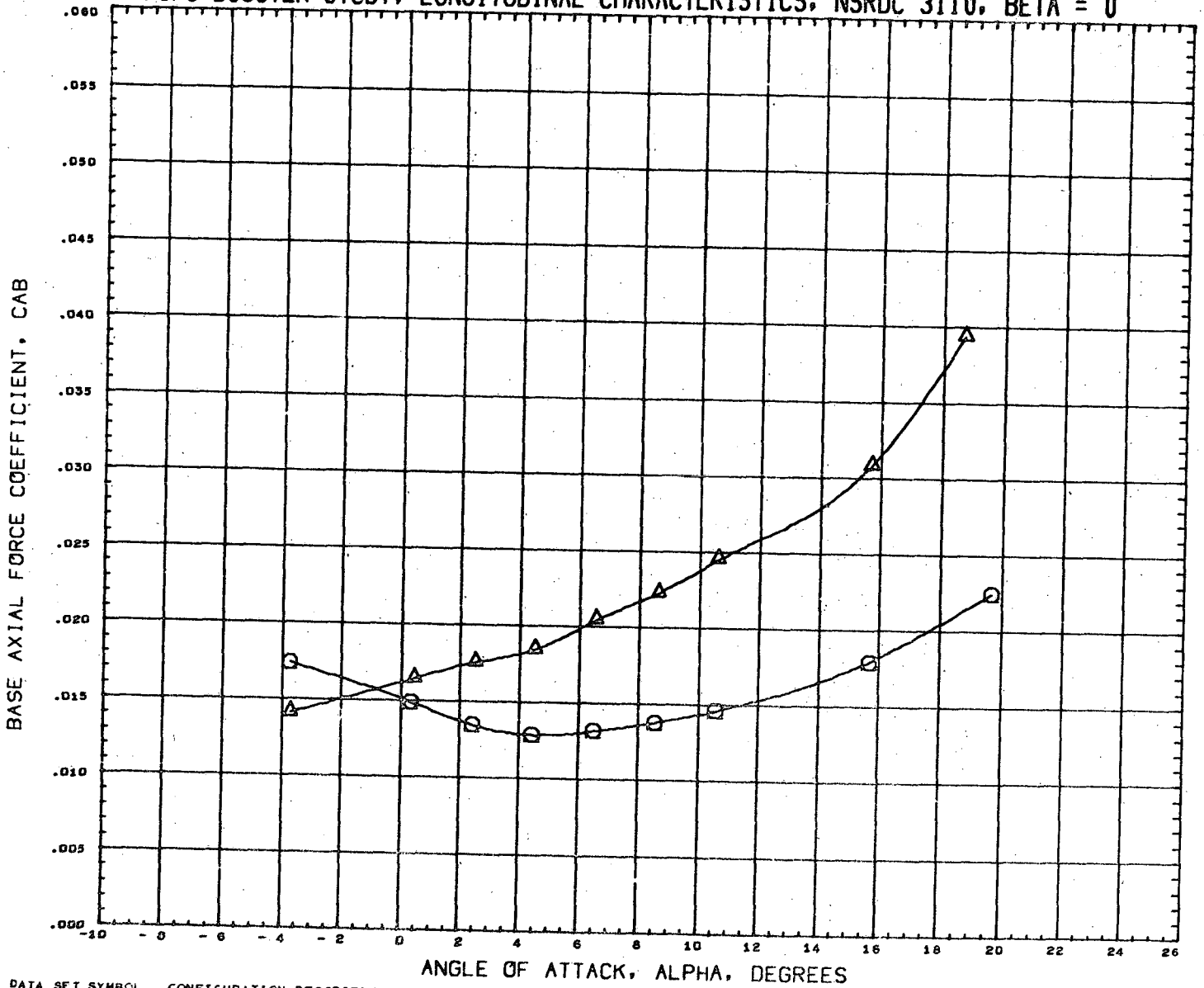
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2165)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2161)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XHRF 31.1400 INCHES
						YHRF 0.0000 INCHES
						ZHRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.582

LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL
(RN2165) \circ
(RN2181) \triangle

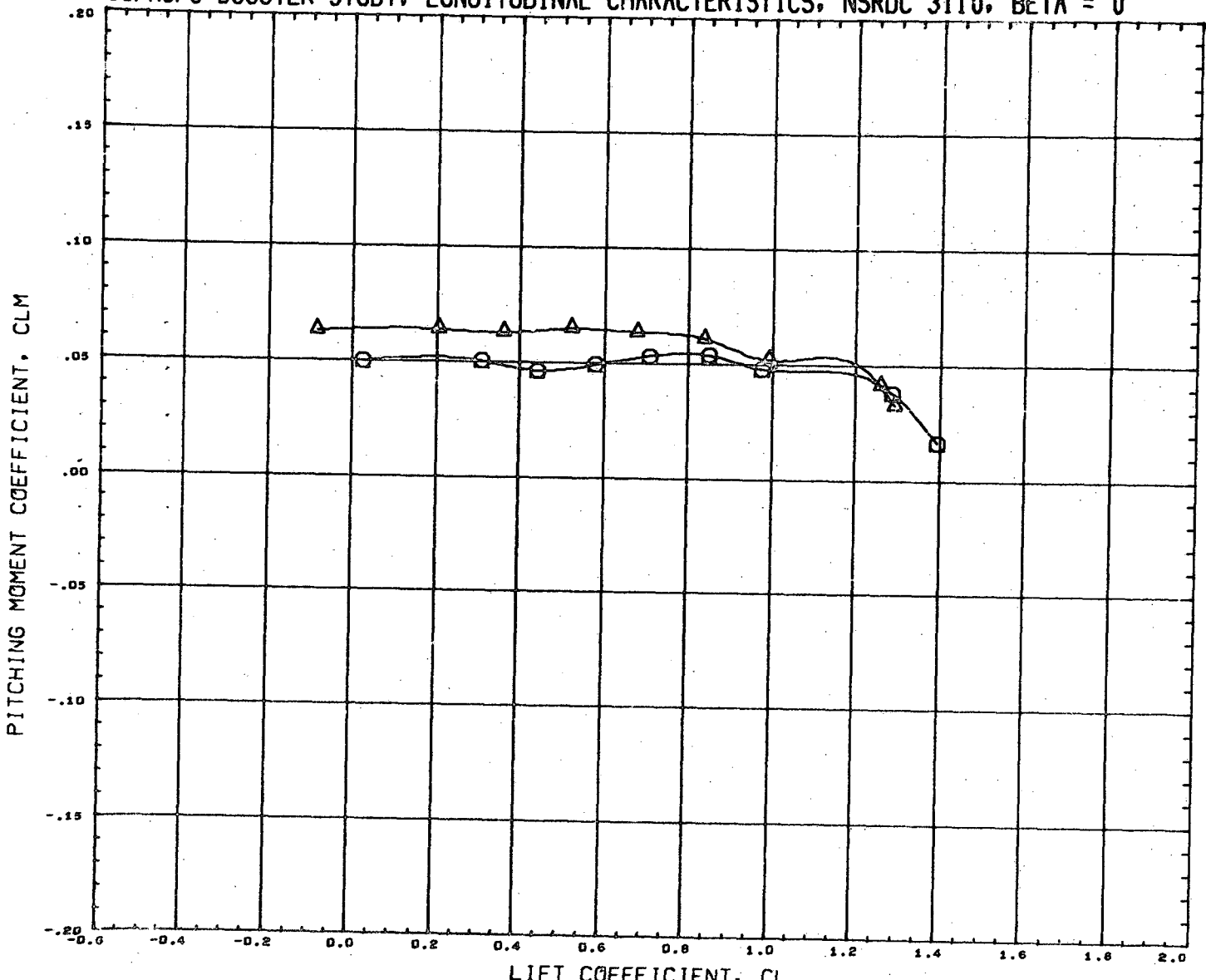
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCENT

MACH 0.382

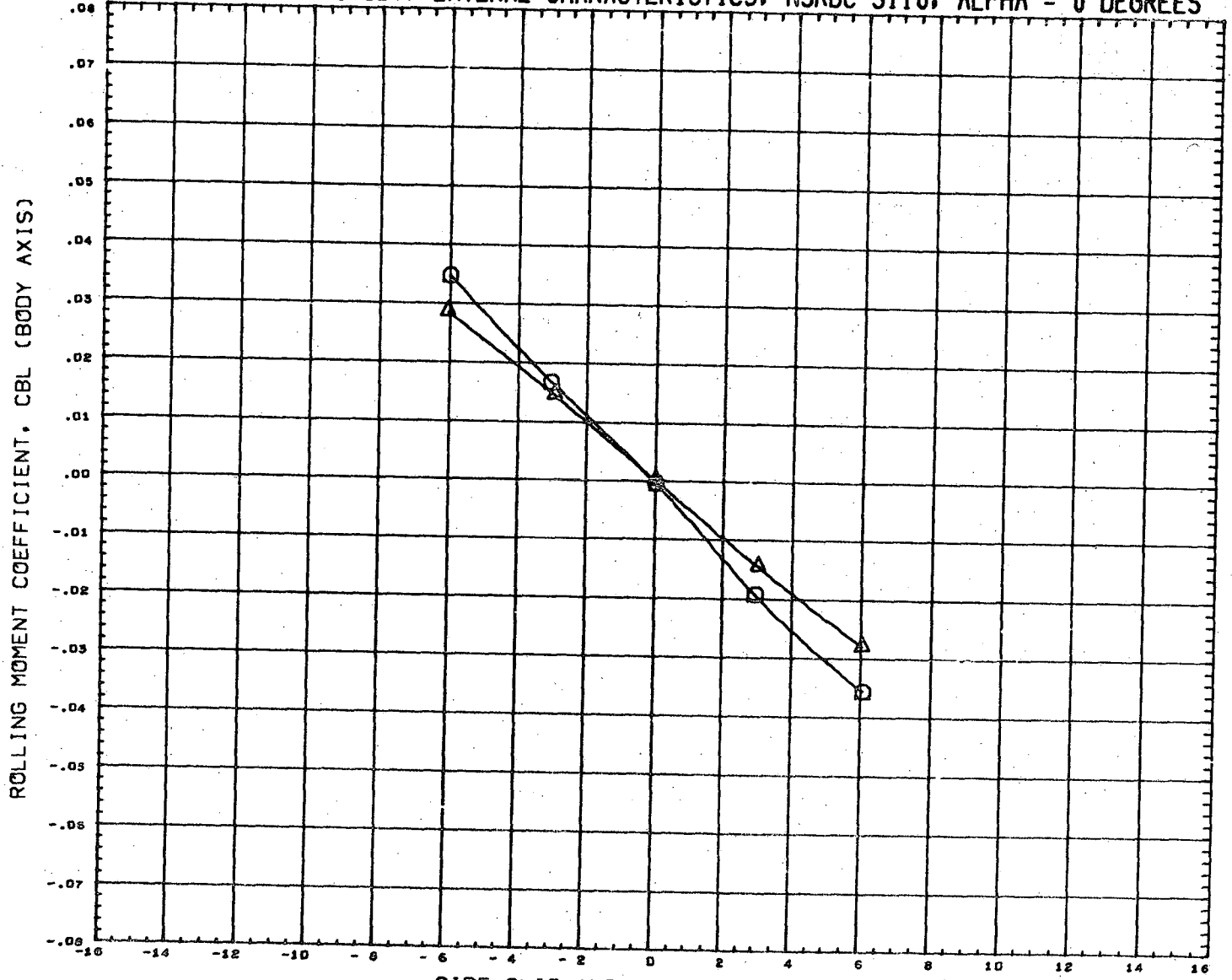
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(R2165)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ.FT.
(R2181)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

HACH 0.382

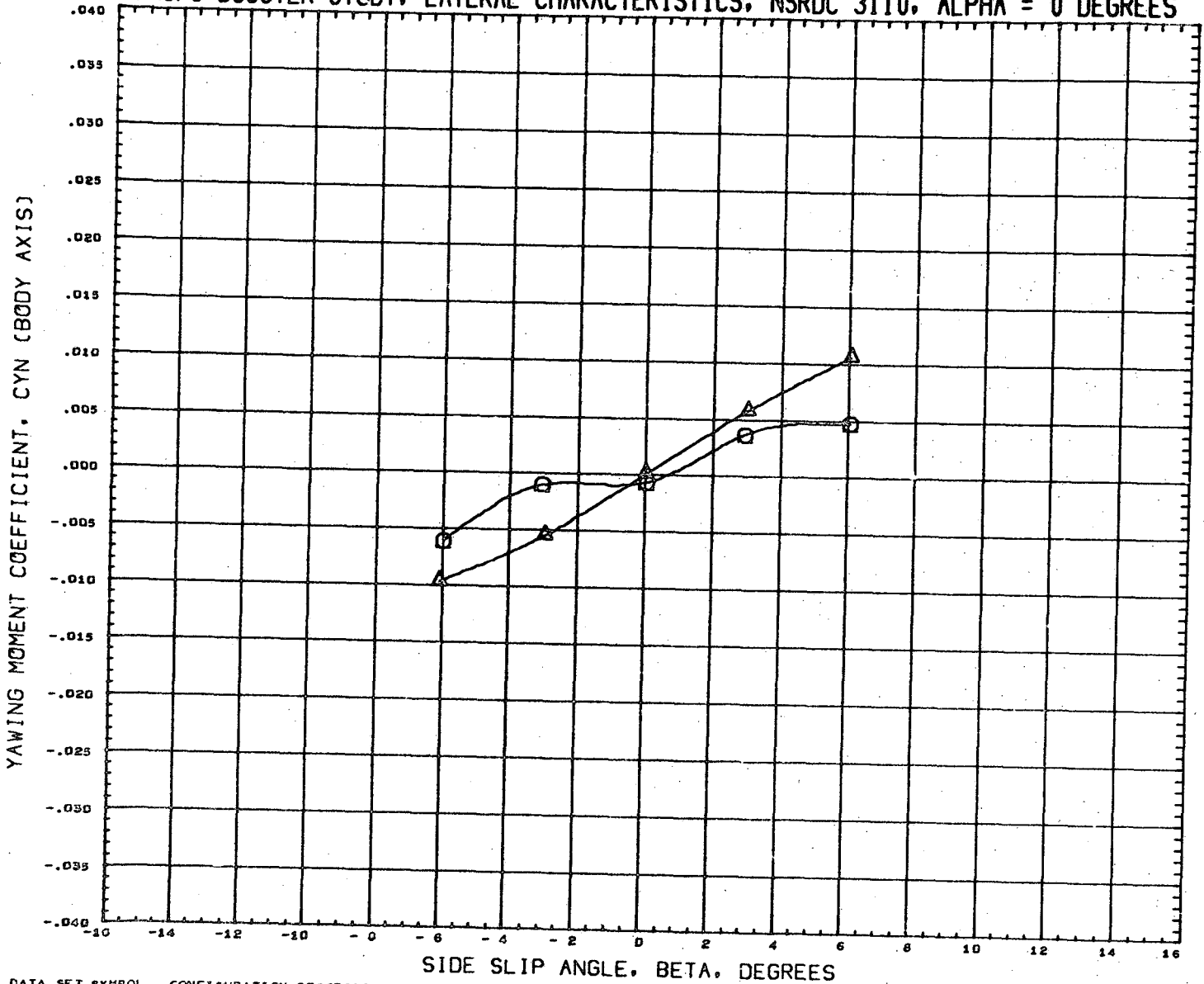
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2166)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2182)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRF 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZMRF 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

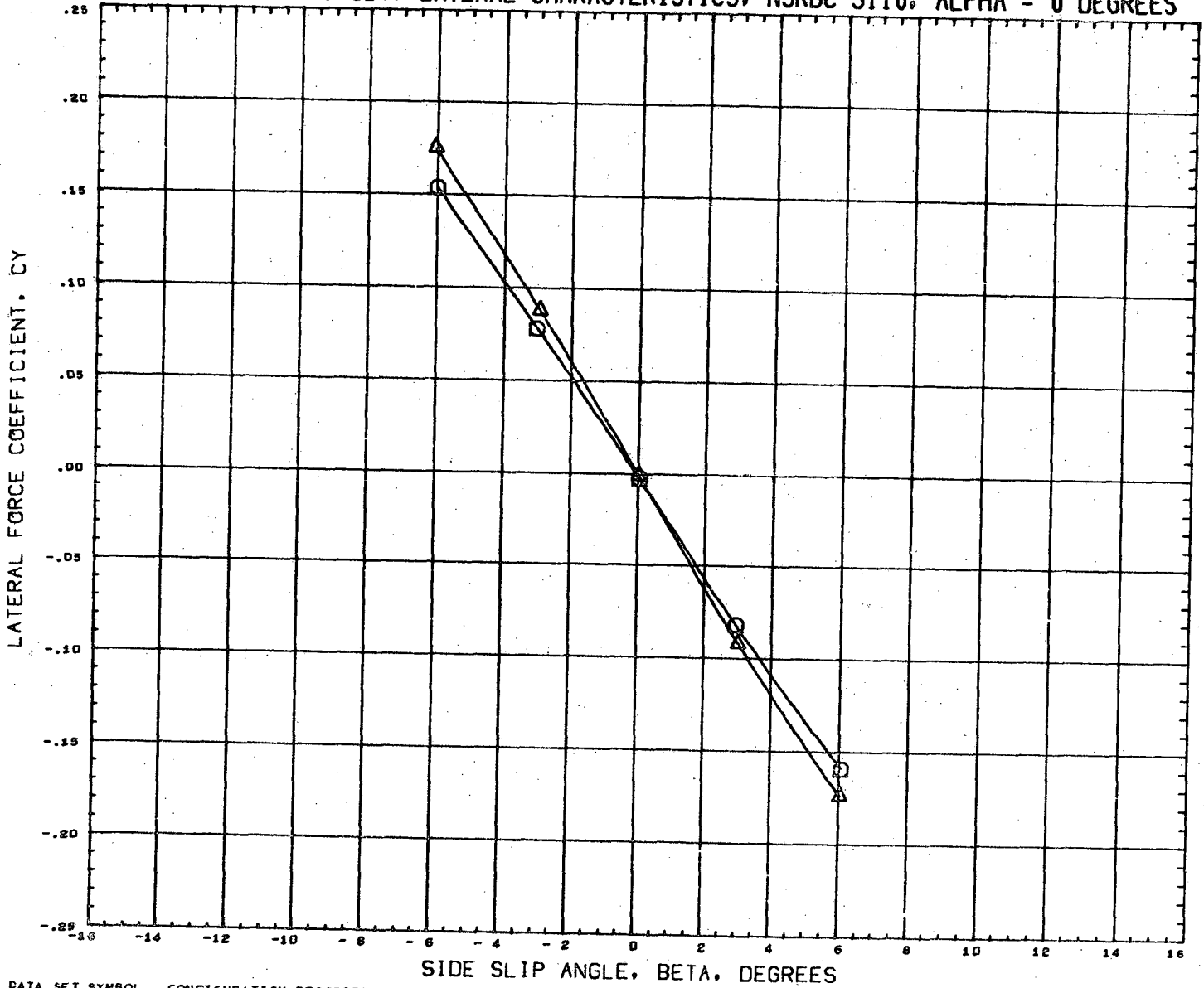
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2166) ○	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2182) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	1.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRF 0.0000 INCHES
						ZNRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL
(RN2166) 
(RN2182) 

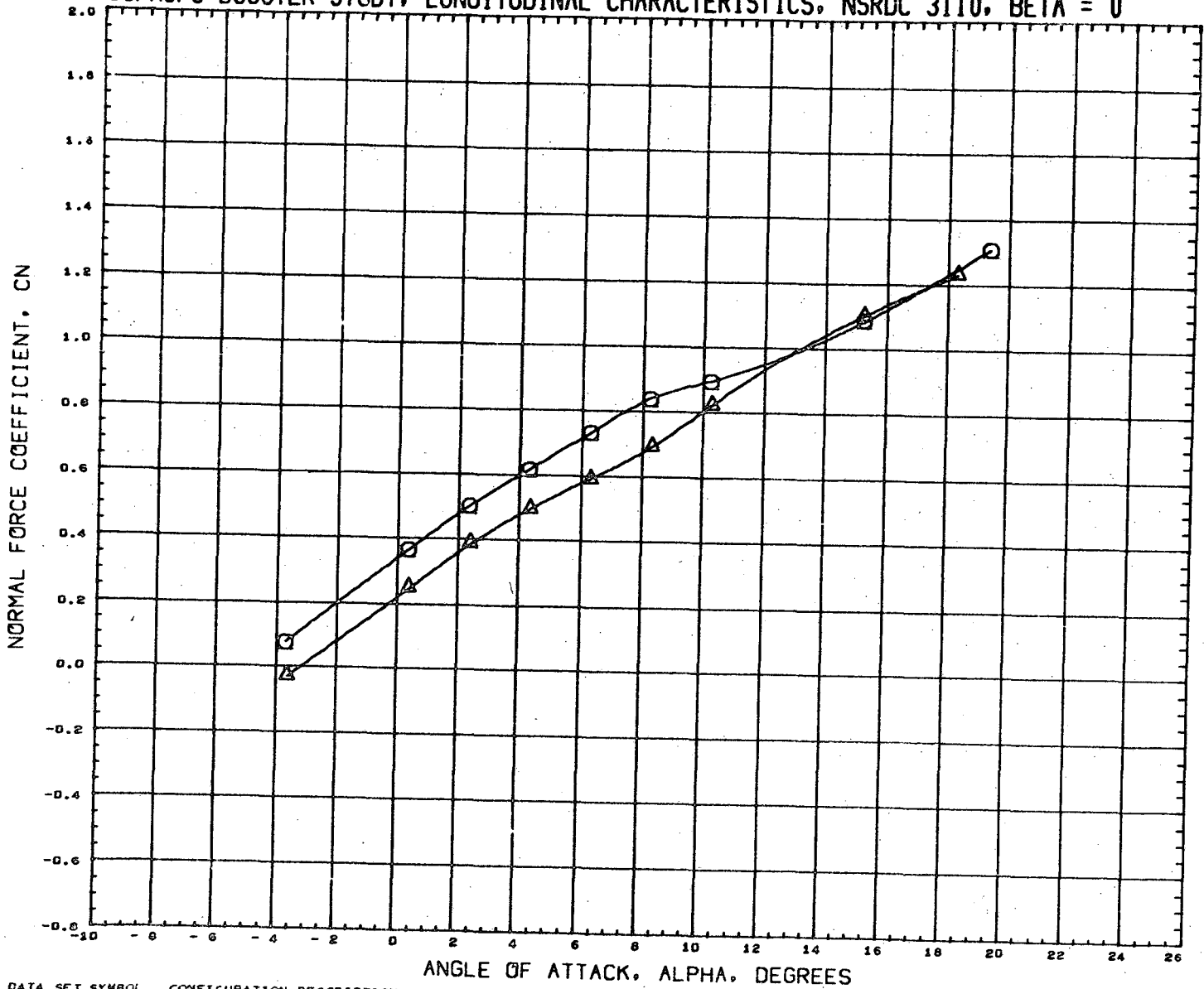
CONFIGURATION DESCRIPTION
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1
NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1

INCIDC	CNDPOS	INCIDW	WNGPOS
15.000	1.000	3.000	1.000
15.000	1.000	3.000	2.000

REFERENCE INFORMATION	
SREF	1.3550 SQ. FT.
LREF	41.4360 INCHES
BREF	41.4360 INCHES
XMRP	31.1400 INCHES
YMRP	0.0000 INCHES
ZMRP	0.2250 INCHES
SCALE	1.5000 PERCNT

MACH 0.381

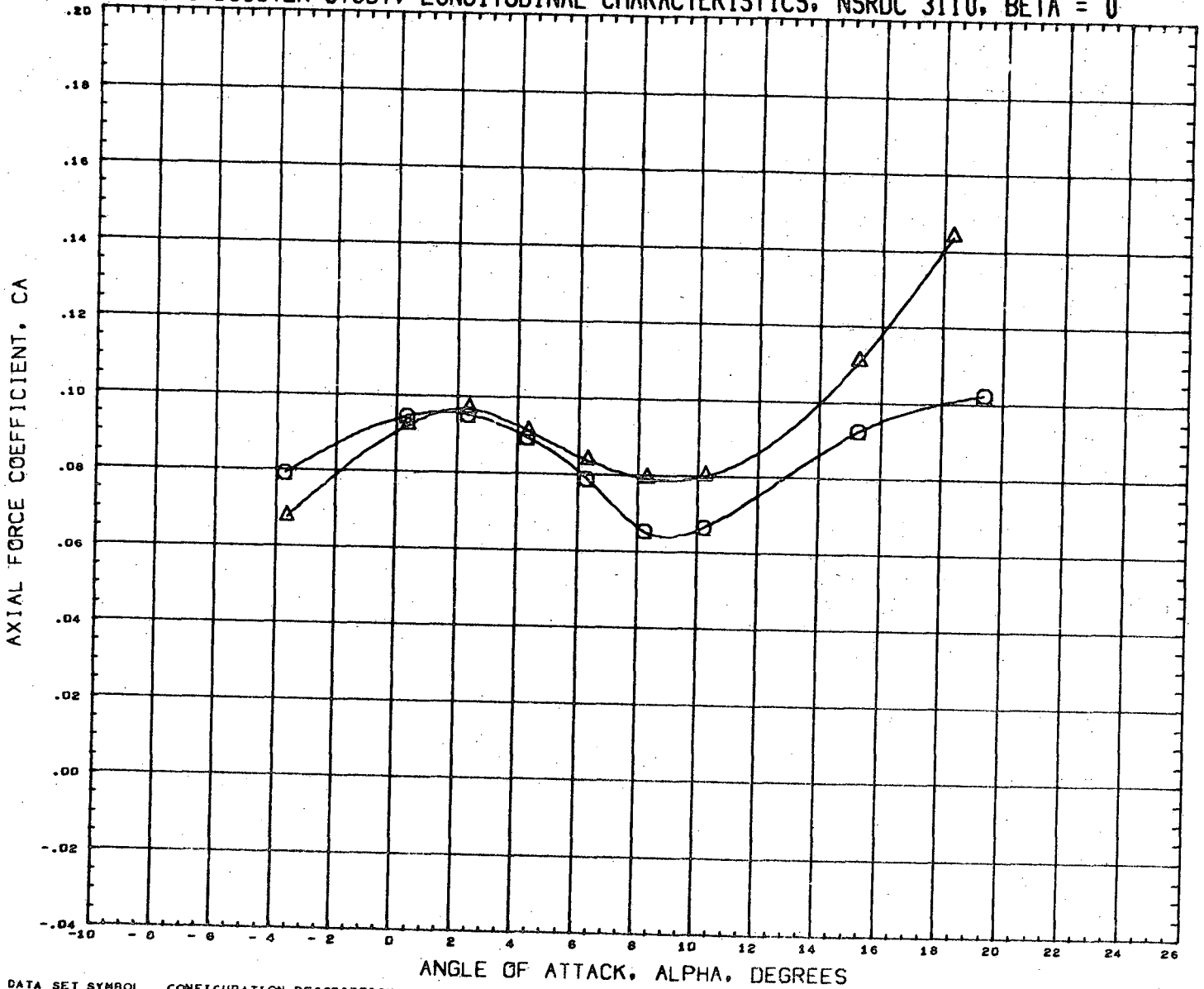
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2173)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2189)	NSRDC-3110,MSFC/LHSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.381

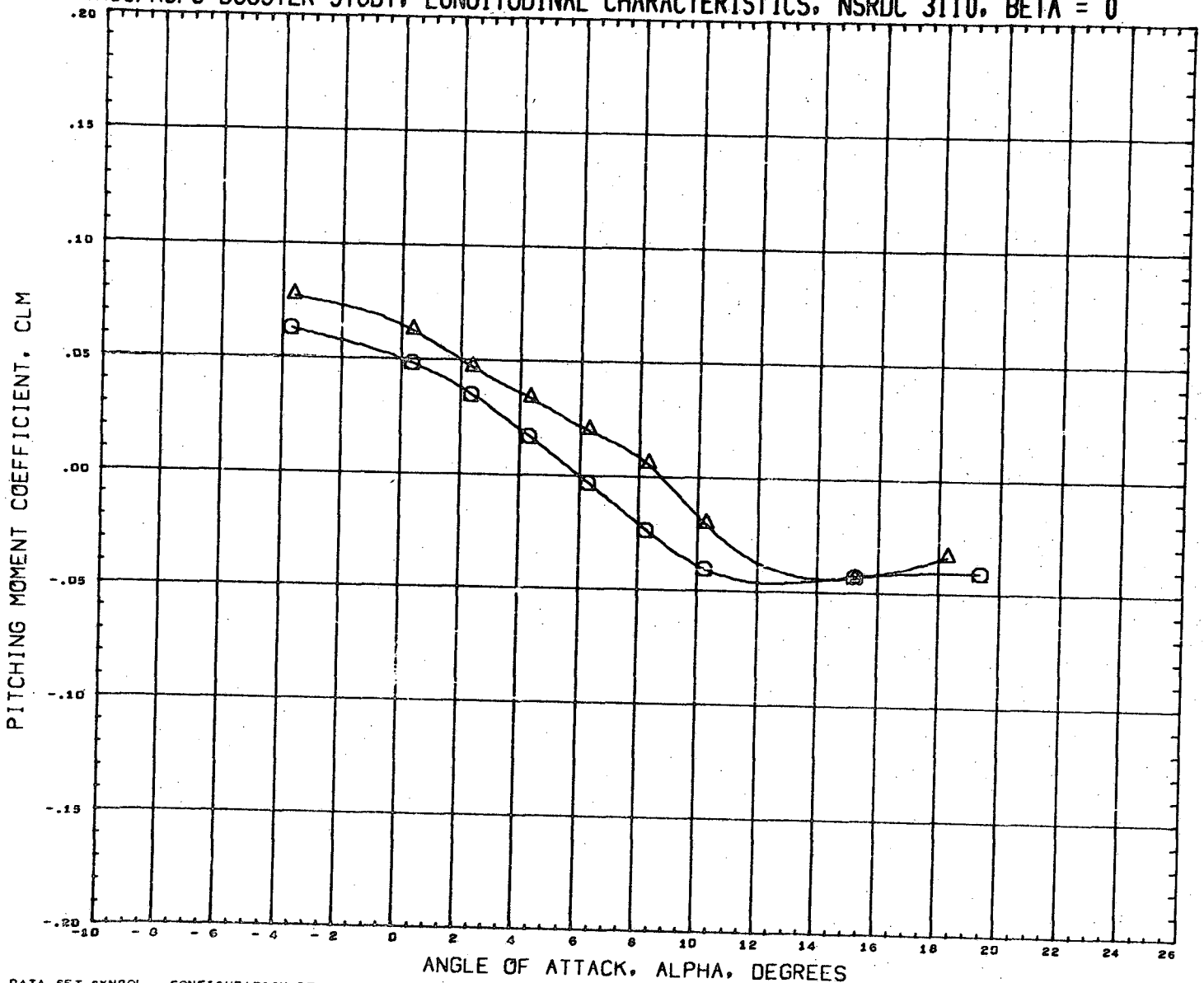
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2173)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2189)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

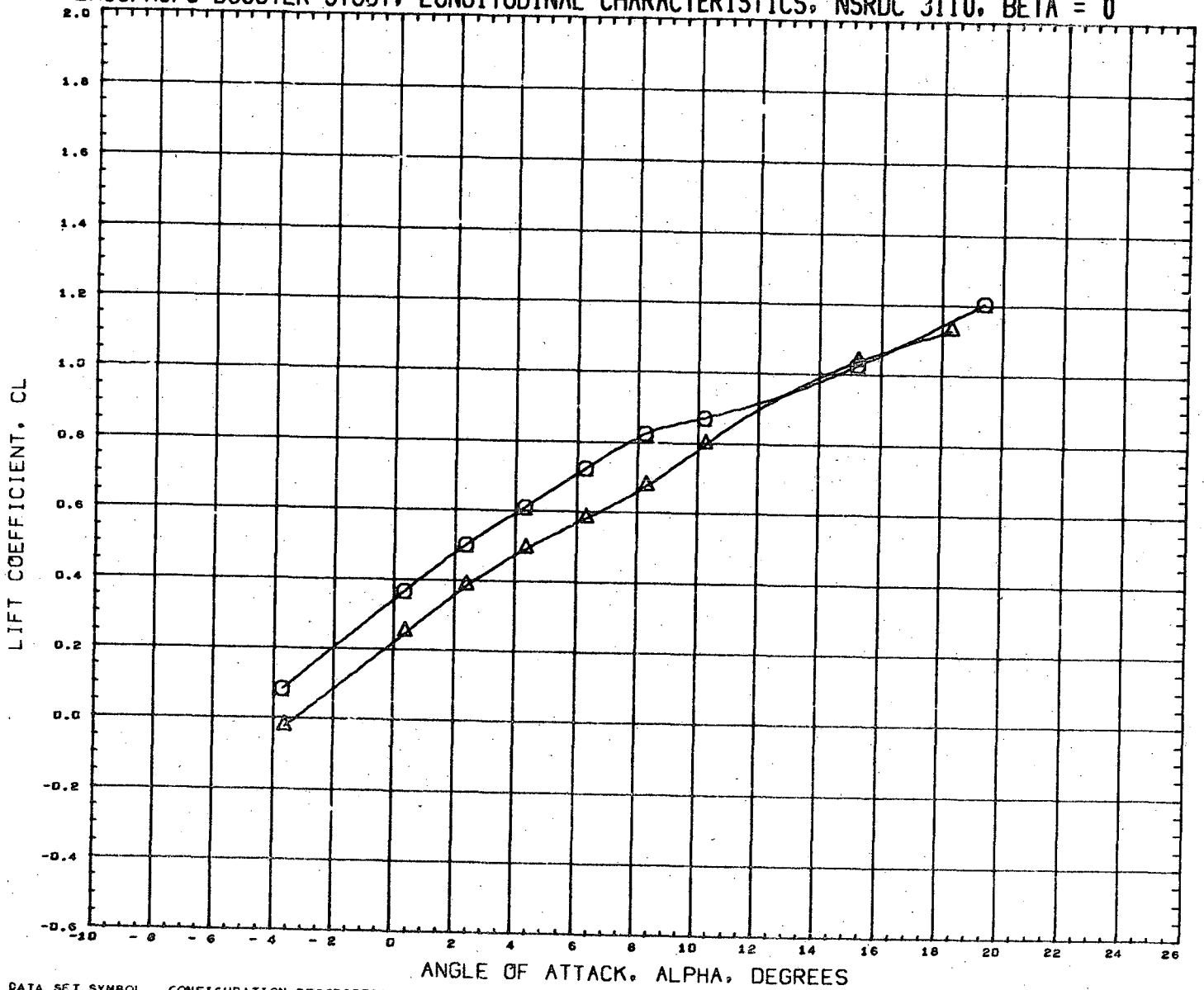
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2173)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2189)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

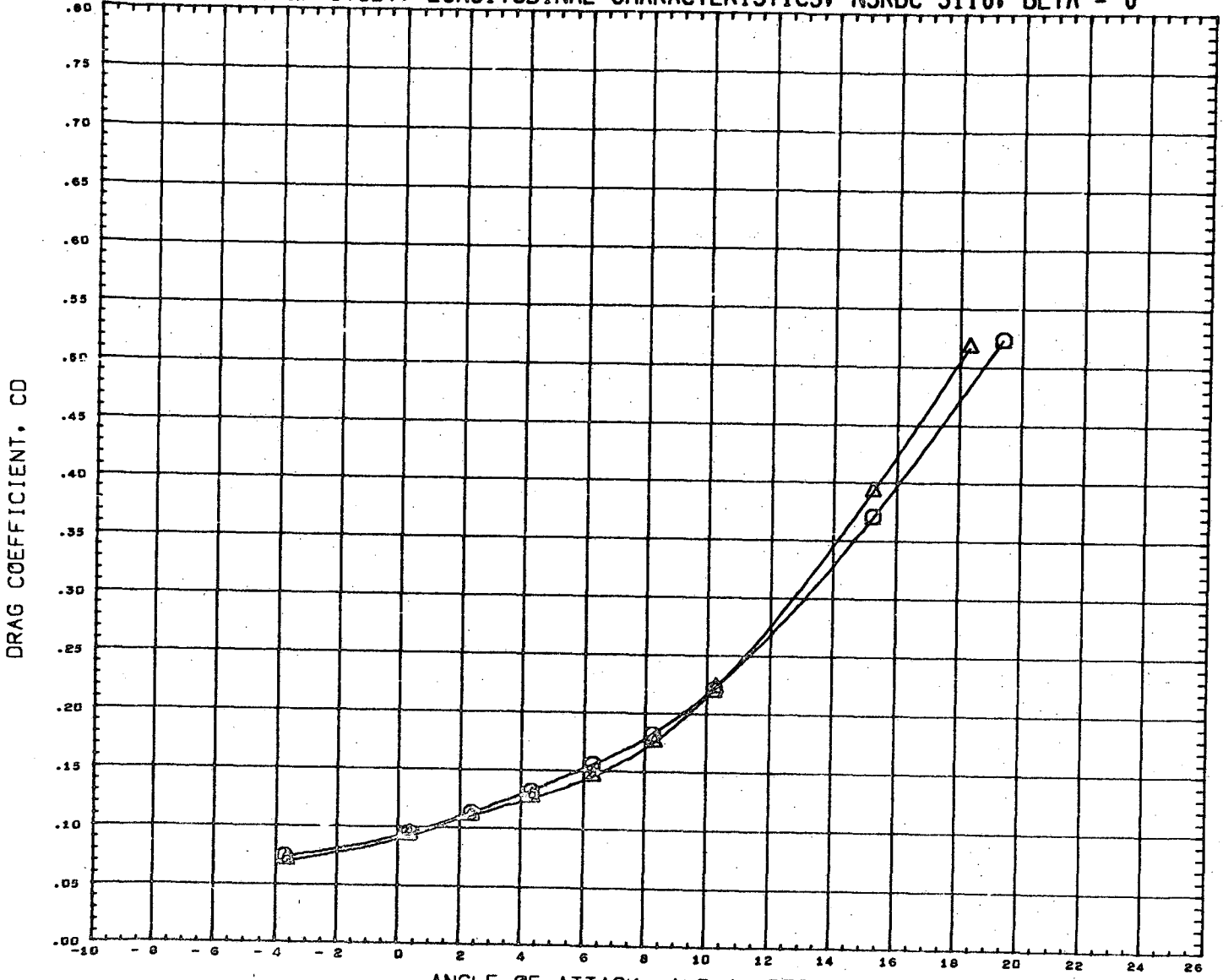
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2173)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2189)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

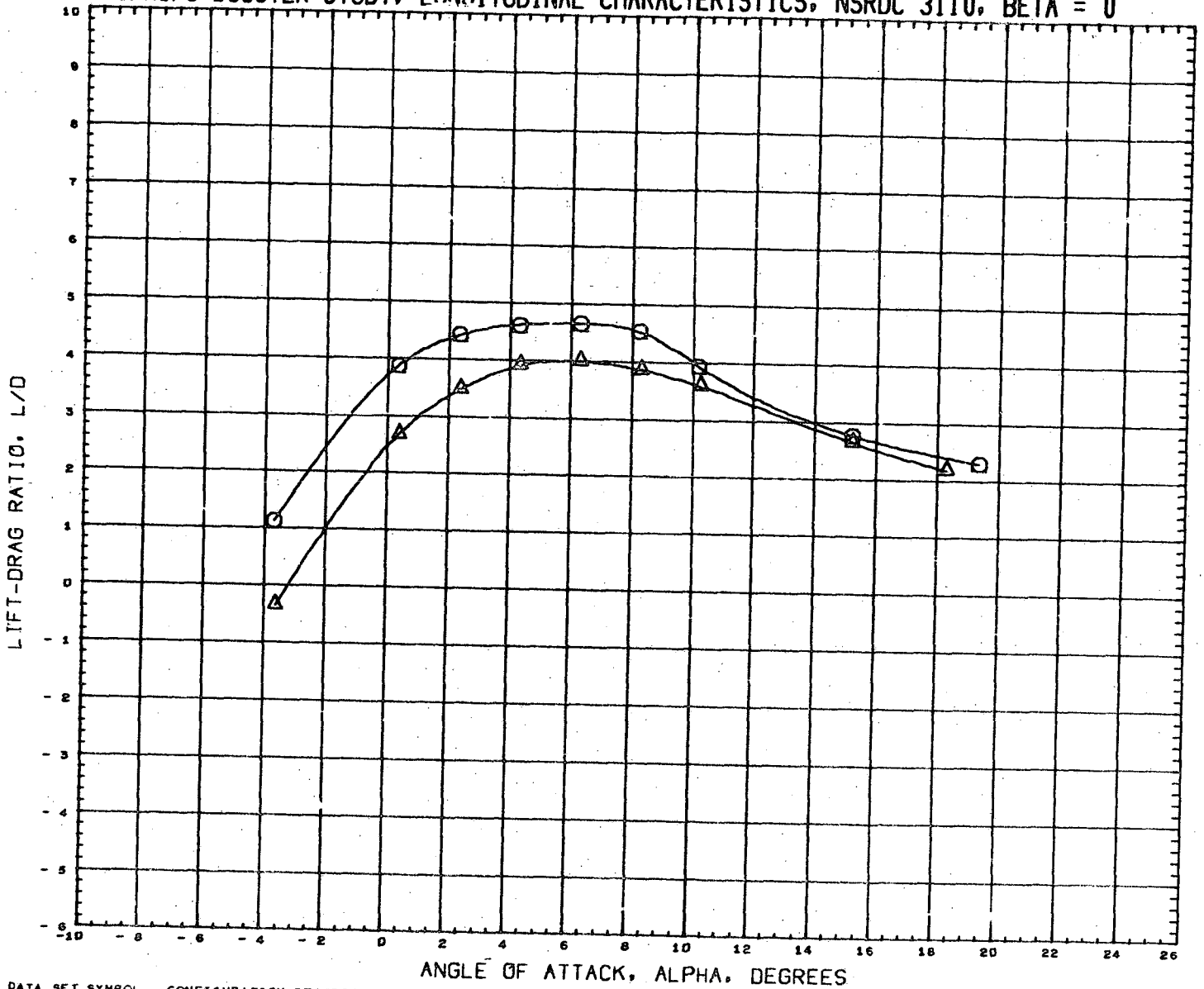
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2173)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	SREF	1.3550 SQ.FT.
(RN2189)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCNT

MACH 0.381

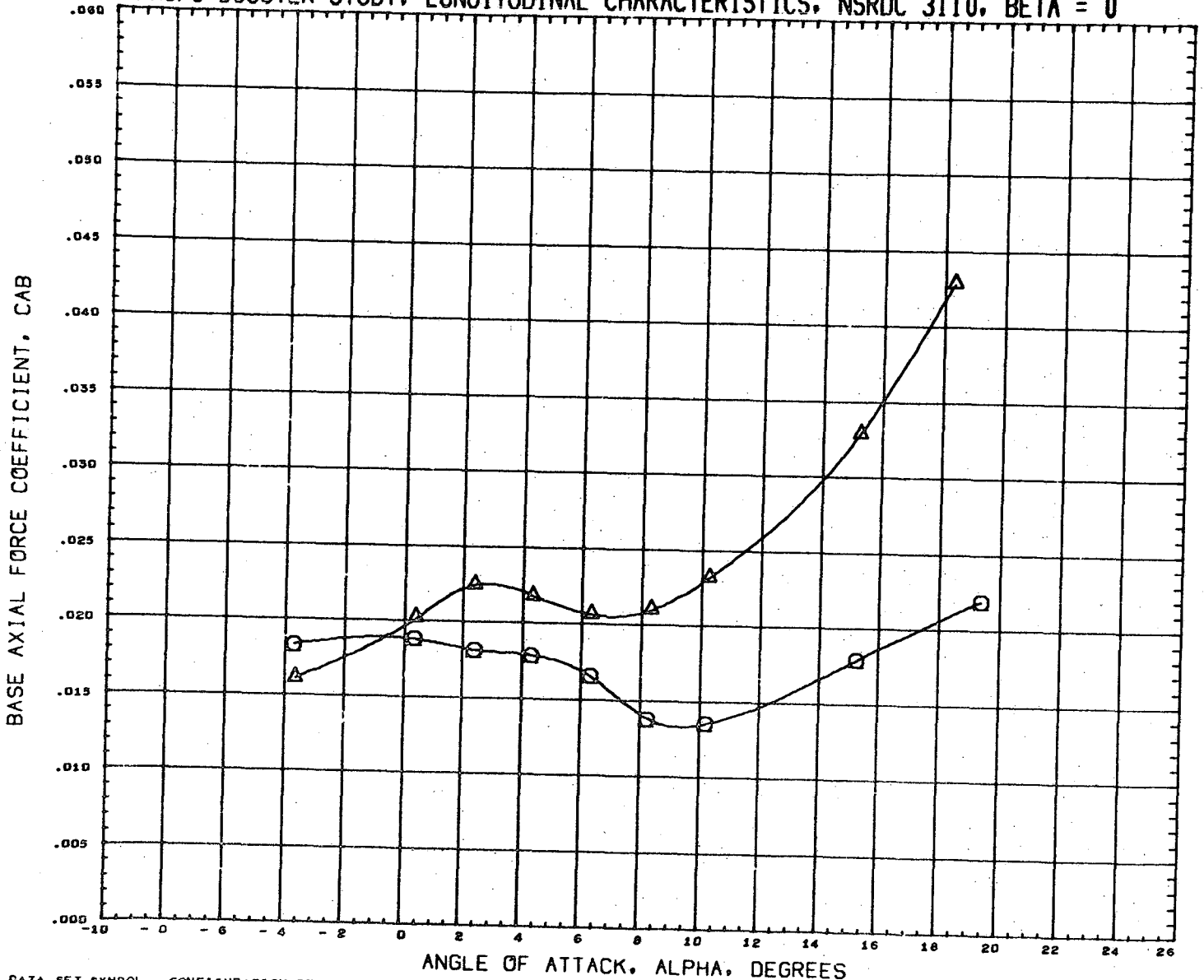
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2173)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2189)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

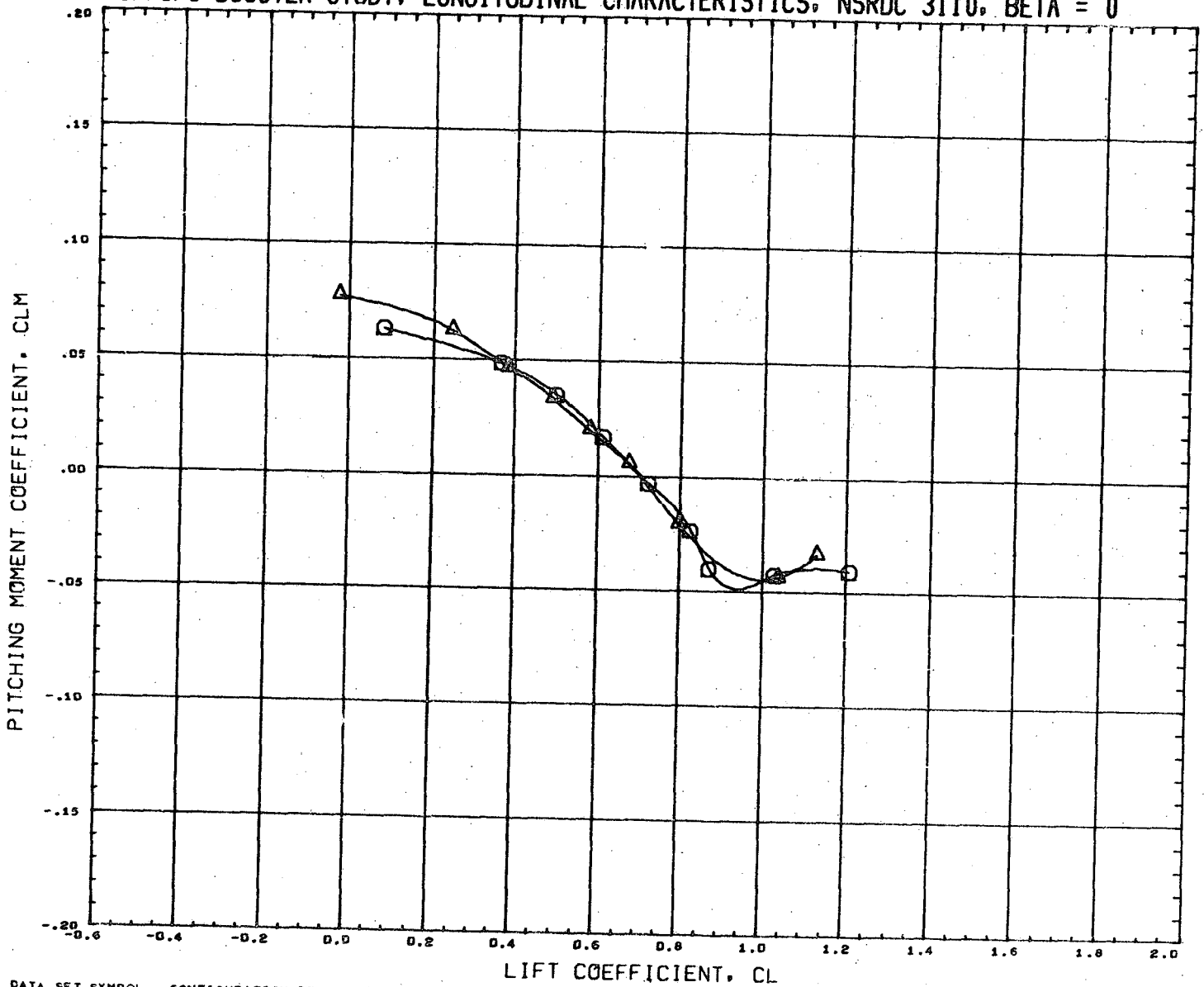
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2173)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN2189)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

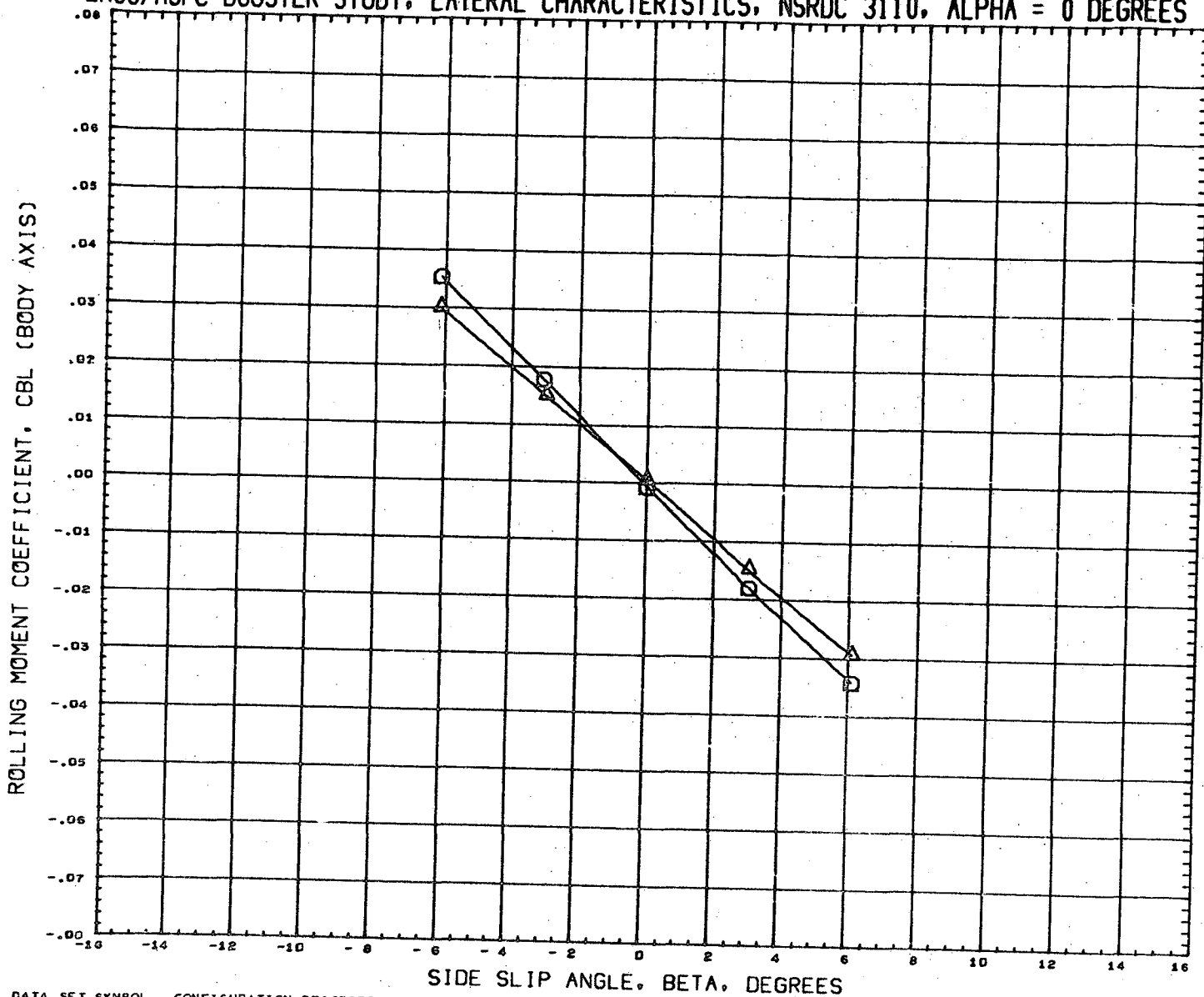
LMSC/MSFC BOOSTER STUDY, LONGITUDINAL CHARACTERISTICS, NSRDC 3110, BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION	
(RN2173)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	SREF	1.3550 SQ. FT.
(RN2189)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF	41.4360 INCHES
						BREF	41.4360 INCHES
						XMRP	31.1400 INCHES
						YMRP	0.0000 INCHES
						ZMRP	0.2250 INCHES
						SCALE	1.5000 PERCENT

MACH 0.381

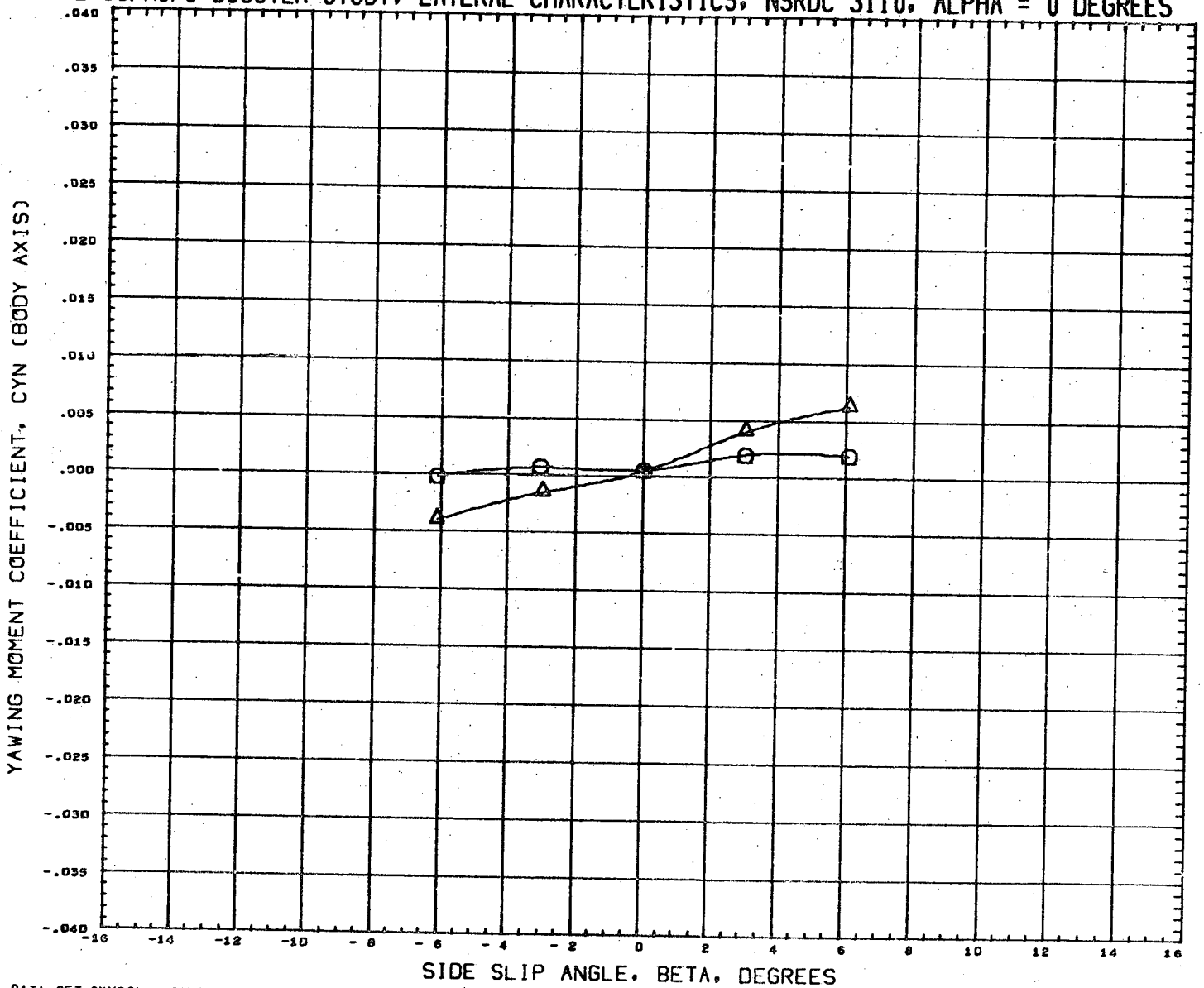
LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2174) ○	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RN219D) △	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XNRP 31.1400 INCHES
						YNRP 0.0000 INCHES
						ZNRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RN2174)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ.FT.
(RN2190)	NSRDC-3110,MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 31.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCNT

MACH 0.381

LMSC/MSFC BOOSTER STUDY, LATERAL CHARACTERISTICS, NSRDC 3110, ALPHA = 0 DEGREES



DATA KEY SYMBOL	CONFIGURATION DESCRIPTION	INCIDC	CNDPOS	INCIDW	WNGPOS	REFERENCE INFORMATION
(RW2174)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	1.000	SREF 1.3550 SQ. FT.
(RW2190)	NSRDC-3110, MSFC/LMSC BOOSTER B1C1F1W1V2D1	15.000	2.000	3.000	2.000	LREF 41.4360 INCHES
						BREF 41.4360 INCHES
						XMRP 51.1400 INCHES
						YMRP 0.0000 INCHES
						ZMRP 0.2250 INCHES
						SCALE 1.5000 PERCENT

MACH 0.381