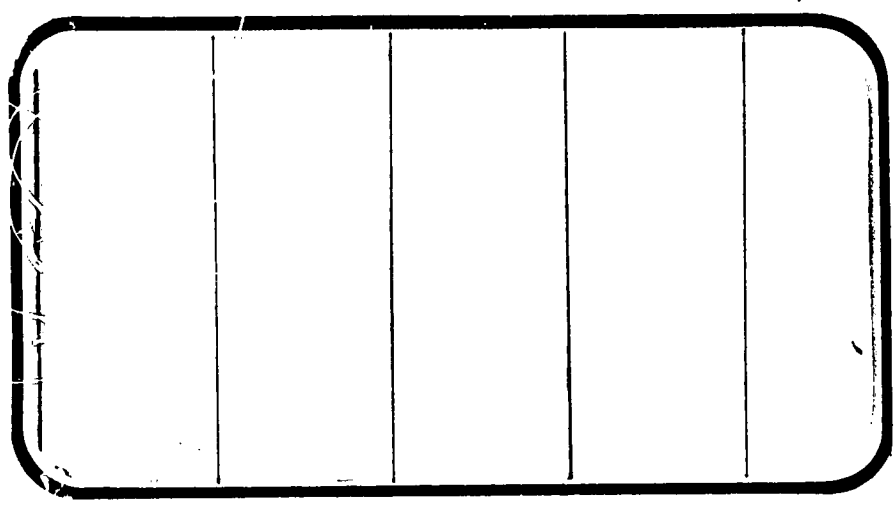




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(NASA-CR-141809) AN INVESTIGATION IN THE
NASA MSFC 14-INCH TRANSONIC WIND TUNNEL TO
DETERMINE THE PRESSURE DISTRIBUTION OVER THE
COMPONENTS OF A 0.004 SCALE VERSION OF THE
ROCKWELL MCR 0074 BASELINE SHUTTLE ASCENDANT

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



**JOHNSON SPACE CENTER
HOUSTON, TEXAS**

**DATA Management services
SPACE DIVISION**  **CHRYSLER CORPORATION**

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VOLUME 3 OF 3

AN INVESTIGATION IN THE NASA MSFC 14-INCH
TRISONIC WIND TUNNEL TO DETERMINE THE PRESSURE
DISTRIBUTION OVER THE COMPONENTS OF A
0.004 SCALE VERSION OF THE ROCKWELL MCR 0074
BASELINE SHUTTLE ASCENT CONFIGURATION
(IA32F)

by

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Prepared under NASA Contract Number NAS9-13247

by

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AN INVESTIGATION IN THE NASA MSFC 14-INCH
TRISONIC WIND TUNNEL TO DETERMINE THE PRESSURE
DISTRIBUTION OVER THE COMPONENTS OF A 0.004 SCALE
VERSION OF THE ROCKWELL MCR 0074 BASELINE SHUTTLE
ASCENT CONFIGURATION (IA32F)

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Paul E. Ramsey, NASA/MSFC

ABSTRACT

An aerodynamic investigation was conducted in the MSFC 14x14-inch Trisonic Wind Tunnel to determine the pressure distribution over the components of a .004 scale version of the Rockwell International MCR 0074 baseline Shuttle ascent configuration. Data were obtained for Mach numbers from 0.6 to 3.48, angles of attack from -10 to 10 degrees, and angles of sideslip from -10 to 10 degrees at zero angle of attack. Also, -4 and 4 degrees sideslip were run for an angle of attack of -5 and 5 degrees. The baseline geometric parameters were Orbiter/ET incidence of 0.5 degree, separation distance at aft tie point 0.14 inch, baseline SRM location ($\phi_s = 90^\circ$, $X_s = 0$), and ET ogive nose without retro rocket package. Control deflections were excluded from investigation. Data are presented in terms of pressure coefficient, C_p , as a function of longitudinal distance, X/L , at constant circumferential position, ϕ , and ϕ at constant X/L . Because of the large volume of data obtained, only typical plots are in this report. Volume 1 contains plotted ET pressure data; Volume 2 contains plotted SRM pressure data; and Volume 3 contains the appendix--the complete set of tabulated source data.

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PLOTTED COEFFICIENTS SCHEDULE

- (A) CP versus X/LT
- (B) CP versus PHI
- (C) CP versus X/LS

NOMENCLATURE

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
Λ_b		base area, in. ²
b_{ref}	BREF	lateral reference length, in.
c		theoretical chord length, in.
C_p	CP CONFIG	pressure coefficient, $\frac{P_l - P_\infty}{q}$ configuration code q
i_o	ORBINC	orbiter incidence angle relative to external tank, positive when tail down, deg.
l_{ref}	LREF	longitudinal reference length, in.
l_s	LS	length of SRM, in.
l_t	LT	length of external tank, in.
M_∞	MACH	freestream Mach number
P_l		local pressure measured on the test model, psi
P_∞	PSA	freestream static pressure, psi
P_T	PTA	freestream total pressure, psi
q	Q	dynamic pressure, psi
RN/l	RL	Reynolds number per unit length; million/ft
S_{ref}	SREF	reference area, in. ²
T		temperature, °F
X		longitudinal displacement along centerline measured from body nose, in.
X/c	X/C	longitudinal distance from theoretical wing leading edge ratioed to the theoretical chord
X/l_s	X/LS	longitudinal location measured from SRM nose ratioed to length of SRM

NOMENCLATURE (continued)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
X/Lt	X/LT	longitudinal location measured from external tank nose ratioed to length of external tank
X _{C.G.} X _S	XMRP X-SRM	longitudinal moment reference point, in longitudinal location of SRM on external tank, zero for baseline, in
Y Y _{C.G.}	YMRP	lateral displacement from centerline lateral moment reference point, in
Z	DELTAZ	separation distance between external tank top and orbiter bottom, measured at the aft tie point, in
Z _{C.G.}	ZMRP	vertical moment reference point, in
α	ALPHA	angle of attack, deg.
β	BETA	angle of sideslip, deg.
Γ	DIHDRL	dihedral angle, deg.
δ_a	AILRON	aileron deflection angle, deg.
δ_e	ELEVTR	elevator deflection angle, deg.
δ_r	RUDDER	rudder deflection angle, deg.
η		spanwise location measured from orbiter body centerline ratioed to half span
ϕ	PHI	circumferential location of pressure orifice, deg.
ϕ_s		circumferential location of SRM relative to top of external tank, deg.
ET		external tank
SRM or SRB		these two terms are used interchangeably to mean solid rocket booster

NOMENCLATURE (Concluded)

<u>SUBSCRIPTS</u>	<u>DEFINITION</u>
a	aileron
b	base
C.G.	center of gravity
e	elevator
l	local
o	orbiter
r	rudder
s	solid rocket motor
T	total conditions
t	external tank
w	wing
X	pressure orifice number, 1, 2, etc.
∞	free stream conditions
ref	reference conditions

CONFIGURATIONS INVESTIGATED

The launch configuration consisted of the double delta wing orbiter with one large external hydrogen-oxygen tank (ET) and two solid rocket boosters (SRM) mounted on the ET beneath the orbiter wing (see Figure 1).

Configuration component nomenclature was as follows:

O ₃	(B ₁₀	C ₅	D ₇	F ₄	M ₃	W ₈₇	E ₁₈	V ₅	R ₅)	Rockwell MCR 0074 baseline orbiter.
T ₉	324-inch diameter baseline external tank with ogive nose cone.									
S _{3/2}	142-inch diam. solid rocket motor (one) with 18° nose cone.									
U ₅	Aft orbiter and SRM attach structure.									

The combinations of components were defined relative to the component on which the data were obtained as follows:

COMPONENTS	DESCRIPTION
<u>Orbiter Data</u>	
(O ₃)/(T ₉)/(S _{3/2})/(S _{3/2})	Orbiter in presence of ET and two SRM's.
(O ₃)/(T ₉)(U ₅)/(S _{3/2})/(S _{3/2})	Orbiter in presence of ET, two SRM's and attach structure.
<u>External Tank Data</u>	
(T ₉)/(S _{3/2})/(S _{3/2})/(O ₃)	ET in presence of two SRM's and orbiter.
(T ₉)(U ₅)/(S _{3/2})/(S _{3/2})/(O ₃)	ET in presence of two SRM's, orbiter, and attach structure.

COMPONENTS**DESCRIPTION**SRB Data**(S_{3/2})/(O₃)/(T₉)/(S_{3/2})****SRM in presence of ET, one SRM, and orbiter.****(S_{3/2})/(O₃)/(T₉)(U₅)/(S_{3/2})****SRM in presence of ET, one SRM, orbiter, and attach structure.**

Details of the individual components are given in Table III entitled Model Dimensional Data.

TEST FACILITY DESCRIPTION

The Marshall Space Flight Center 14" x 14" Trisonic Wind Tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from .2 to 5.85 is covered by utilizing two interchangeable test sections. The transonic section permits testing at Mach 0.20 through 2.50, and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between .2 and .9 are obtained by using a controllable diffuser. The range from .95 to 1.3 is achieved through the use of plenum suction and perforated walls. Mach numbers of 1.46, 1.96, and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks are tilted and translated automatically to produce any desired Mach number in .25 increments.

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

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

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

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

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

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

MODEL DESCRIPTION

The model was 0.004 scale and was comprised of three basic geometric components: (1) the external fuel tank; (2) two solid rocket motors (SRM's); and (3) the orbiter configuration. The orbiter and SRM's were fastened to the external tank, which was sting supported. The orbiter and SRM's were fixed with respect to the ET in the axial and radial location depicted in Figure 1. Only the baseline configuration was tested; i.e., orbiter incidence was 0.5° , orbiter/ET separation at the aft point was 0.14 inch, SRB radial location was 90° , and SRM longitudinal position was 1.732" aft of ET nose. No control surfaces were deflected during this test.

The orbiter consisted of a stainless steel body obtained from the Rockwell force model which was fitted with a pressure instrumented aluminum wing. This wing contained 40 pressure taps, 19 on the top surface of the left wing, 19 on the bottom surface of the right wing, and 2 on the left wing leading edge. The location of each orbiter pressure orifice and the numbering system are presented in Figure 2. The 0.032-inch O.D., annealed stainless steel pressure tubing was routed out the base of the model and along the exterior of the ET sting.

The SRM's and ET were constructed of stainless steel and contained 222 orifices (111 each) and 195 orifices, respectively. Stainless steel, annealed, 0.032-inch O.D. pressure tubing was routed out the base of the SRM's on the outside of the ET sting while the ET tubing was routed out

through the sting. Tubing of 0.050" O.D. was brazed onto the 0.032-inch O.D. tubing as close to the models as possible and routed down the sector, through the tunnel floor, and out the side of the tunnel. At this point, tygon tubing was used to connect the steel tubing to ten 48 port scani-valve heads.

The pressure tap locations on each model component are shown in Figures 2-4. The launch vehicle SRM's and external tank were manufactured at MSFC (Model #450 Assembly) per MSFC drawings 80M51305, 80M51311, 80M51312, and 80M51313. The orbiter was manufactured at Lockheed-Huntsville. The MCR 0074 baseline configuration was defined by Rockwell International drawings VL70-000089B, VL77-000012, VL72-000061B, and VL78-000018.

Instrumentation:

The model instrumentation consisted of strain gages located on the sting for measuring sting deflections and the transducers required for the 457 pressure measurements.

The wing pressure taps were numbered chordwise on the top of the left wing, starting at the front at the inboard chord location and moving toward the wing tip. The right wing was numbered similarly except on the bottom of the wing. This is shown in Figure 2.

Since the ET is symmetrical, only the left side was instrumented with pressure taps. These were numbered axially from front to back at each circumferential location, beginning with A and proceeding through K.

The SRM's were numbered similarly except that half of the pressure instrumentation was located on the left SRM and the remainder on the right. This setup was required to obtain a distribution completely around the SRM because of the assymetrical pressure distributions caused by the presence of the ET and the physical limitations of getting all the required tubing in one SRM. Hence, the orifice axial rows are numbered A through H on the left SRM and then picked up on the right SRM with I through P as if continued on the left SRM.

Test Procedures:

The ET was supported on an integral straight sting which was mounted in a 5-degree offset. This offset was rolled to $\pm 90^\circ$ to obtain polars at constant -5° or 5° angle of attack. To obtain the pitch polars of $\pm 10^\circ$, a short "dogleg" sting was used behind the 5° offset to provide zero sting offset. This procedure allowed changing the sting offset easily without disconnecting the model pressure tubing. The sting and model setup is shown in Figure 5.

It should be noted that force data obtained during MSFC TWT 570 (Ref. 4) indicates a substantial ET sting effect on the SRM forces and moments. Because of this fact, the pressure data on the aft portion of the SRM's may contain sting interference effects and should, therefore, be used with caution. Additional force tests are planned to obtain connection factors which can be used with the integrated pressure data to eliminate this problem.

DATA REDUCTION

The pressure data were reduced to nondimensional coefficient form using the following equation:

$$C_{pX} = (P_X - P_\infty)/q$$

where X indicates the pressure orifice number.

Model reference dimensions were:

PARAMETER	FULL SCALE	MODEL SCALE
S_{ref} , Reference area	2690 ft. ²	6.198 in. ²
l_{ref} , Reference length (Orbiter body length)	1328 in.	5.313 in.
b_{ref} , Reference span	1328 in.	5.313 in.

Moment reference point
(measured from ET nose and as a reference. Corresponds to longitudinal position of Orbiter nose on ET ζ .)

ORBITER

X_{MRP} (at orbiter nose)	635 in.	2.549 in.
Y_{MRP} (on ET & Orb. ζ)	0	0
Z_{MRP} (1.332 inches below Orbiter ζ on ET ζ)	333 in.	1.332 in.

ET

X_{MRP} (2.549 inches aft of ET nose)	635 in.	2.549 in.
Y_{MRP} (on ET ζ)	0	0
Z_{MRP} (on ET ζ)	0	0

	PARAMETER	FULL SCALE	MODEL SCALE
SRM			
X _{MRP}	(0.8017 inch aft SRM nose)	635 in.	2.549 in.
Y _{MRP}	(0.972 inch to right of left SRM ζ)	243 in.	0.972 in.
Z _{MRP}	(on ET & SRM ζ)	0	0

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TABLE II

TEST: MSFC 567		DATA SET RUN NUMBER COLLATION SUMMARY										DATE: May 24 1973																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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COEFFICIENTS

α OR β SCHEDULES

* XX TO, external tank; SO, SRM Booster; UO, Orbiter upper wing; LO, Orbiter lower wing; SC, SRM cone; SS, SRM Schroud
 Datasets R82XX1, 2, 3, and 4 do not contain Orbiter data at M=2.99 and M=3.48. Datasets R82XX5 and 6 contain no Orbiter data.

TABLE III
MODEL DIMENSIONAL DATA

MODEL COMPONENT: BODY - B10 Body

GENERAL DESCRIPTION: Fuselage, 2A Configuration, Lightweight Orbiter,
Per Rockwell Lines VL70-000079 "B"

Scale Model = 0.004

VL70-000089 "B"
DRAWING NUMBER: VL70-000092, 93, 94 "A"

<u>DIMENSIONS:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length in.	<u>1328.3</u>	<u>5.313</u>
Max. Width in. (@ $X_0 = 1528.3$)	<u>265.0</u>	<u>1.060</u>
Max. Depth in. (@ $X_0 = 1480.52$)	<u>248.0</u>	<u>0.992</u>
Fineness Ratio	<u>5.012</u>	<u>5.012</u>
Area Ft^2		
Max. Cross-Sectional	<u>456.4</u>	<u>1.826</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Continued)

MODEL COMPONENT: BODY - Canopy - C5

GENERAL DESCRIPTION: 2A Configuration Per Lines

VL70-000092

Scale Model = 0.004

DRAWING NUMBER: VL70-000092

<u>DIMENSIONS:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (STA Fwd Bulkhead)	<u>391.0</u>	<u>1.564</u>
Max. Width (T. E. Bulkhead)	<u>560.0</u>	<u>2.240</u>
Max. Depth (WP Z = 421.922 to Z = 500)	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Continued)

MODEL COMPONENT: BODY - Manipulator Housing D-7

GENERAL DESCRIPTION: 2A Configuration Per Rockwell Lines

VL70-000092

Scale Model = 0.004

DRAWING NUMBER: VL70-000093

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length in.	<u>881.00</u>	<u>3.524</u>
Max. Width in.	<u>51.00</u>	<u>0.204</u>
Max. Depth in.	<u>23.00</u>	<u>0.092</u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
Fuselage	BP = 0.00	
	WP = 500.00 INFS	
	X.426.0 to 1307.0 INFS	

TABLE III (continued)

MODEL COMPONENT: BODY - F4 Body Flap

GENERAL DESCRIPTION: 2A Configuration Per Rockwell Lines VL70-000094A

Scale Model = 0.004

DRAWING NUMBER: VL70-000094A

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>84.70</u>	<u>0.339</u>
Max. Width	<u>265.00</u>	<u>1.060</u>
Max. Depth	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u>142.64</u>	<u>0.571</u>
Wetted	<u> </u>	<u> </u>
Base Ft ²	<u>38.65</u>	<u>0.0006</u>

TABLE III (Continued)

MODEL COMPONENT: BCDY - OMS POD - M3

GENERAL DESCRIPTION: 2A Lightweight Configuration Per Rockwell Lines

VL70-000094A

Scale Model = 0.004

DRAWING NUMBER: VL70-000094A

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>346.0</u>	<u>1.384</u>
Max. Width $X_0 = 1450.0$	<u>108.0</u>	<u>0.432</u>
Max. Depth $X_0 = 1500.0$	<u>113.0</u>	<u>0.452</u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

⌀ OF FMS POD

WP = 463.9 INFS : WP 400 + 63.9 = 463.9

BP = 80.0 INFS

Length 1214.0 to 1560.0 = 346.0 INFS

TABLE III (Continued)

MODEL COMPONENT: WING-WA7 v. Lightweight Orbiter

GENERAL DESCRIPTION: Orbiter Configuration Per Lines

Note: (Dihedral angle is defined at the lower surface of the wing at the 75.33% element line projected into a plane perpendicular to the WRL)

VL70-000093

Scale Model = 0.004

TEST NO.

DWG. NO. VL70 -000093

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (lineo.) Ft²

Planform

Span (Theo In.)

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) 3.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATA

Area (lineo.) Ft²

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip $1.00 \frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mac NASA)

XXXX-64

Root $\frac{b}{2} = 0.425$

Tip $\frac{b}{2} = 1.00$

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft²

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing Sta

2690.00	0.043
936.68	3.747
2.265	2.265
1.177	1.177
0.200	0.200
3.500	3.500
3.000	3.000
+3.000	+3.000
45.000	43.000
-10.24	-10.24
35.209	35.209
689.24	2.757
137.85	0.551
474.81	1.899
1136.89	4.458
299.20	1.197
182.13	0.728
1752.29	0.028
720.68	2.883
2.058	2.058
.2451	.2451
562.40	2.250
137.85	0.551
393.03	1.572
1185.31	4.741
300.201	1.201
143.76	0.575
.10	.10
.12	.12
120.33	0.019
560.0	2.240
1035.0	4.14

TABLE III (Continued)

MODEL COMPONENT: Elevon E-18

GENERAL DESCRIPTION: 2A Configuration Per W-87

Rockwell Lines VL70-000093

Data for (1) of (2) Sides

Scale Model = 0.004

DRAWING NUMBER: VL70-000093

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Area Ft ²	<u>205.52</u>	<u> </u>	<u>0.003</u>
Span (equivalent) in.	<u>353.34</u>	<u> </u>	<u>1.413</u>
Inb'd equivalent chord	<u>114.78</u>	<u> </u>	<u>0.459</u>
Outb'd equivalent chord	<u>55.00</u>	<u> </u>	<u>0.220</u>
Ratio movable surface chord/ total surface chord			
At Inb'd equiv. chord	<u>.208</u>	<u> </u>	<u>.208</u>
At Outb'd equiv. chord	<u>.400</u>	<u> </u>	<u>.400</u>
Sweep Back Angles, degrees			
Leading Edge	<u>0.00</u>	<u> </u>	<u>0.00</u>
Tailing Edge	<u>-10.24</u>	<u> </u>	<u>-10.24</u>
Hingeline	<u>0.00</u>	<u> </u>	<u>0.00</u>
Area Moment	<u>1548.07</u>	<u> </u>	<u>0.0001</u>
(Normal to hinge line) FT ³			
Produce of Area Moment			

TABLE III (Continued)

MODEL COMPONENT: VERTICAL - V5 (Light Wt. Orbiter Configuration)

GENERAL DESCRIPTION: Centerline Vertical Tail, Double Wedge

Airfoil with Rounded Leading Edge

Scale Model = 0.004

DRAWING NUMBER:

VL70-000095

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo) Ft ²	<u>413.25</u>	<u>0.007</u>
Planform		
Span (Theo) In	<u>315.72</u>	<u>1.263</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>.404</u>	<u>.404</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>26.249</u>	<u>26.249</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>1.074</u>
Tip (Theo) WP	<u>108.47</u>	<u>0.434</u>
MAC	<u>199.81</u>	<u>0.799</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>5.854</u>
W. P. of .25 MAC	<u>635.522</u>	<u>2.542</u>
B. L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle Deg	<u>10.000</u>	<u>10.000</u>
Trailing Wedge Angle Deg	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius ~in.	<u>2.00</u>	<u>0.008</u>
Void Area ~Ft ²	<u>13.17</u>	<u>0.0002</u>
Blanketed Area ~Ft ²	<u>12.67</u>	<u>0.0002</u>

TABLE III (Continued)

MODEL COMPONENT: R5-Rudder

GENERAL DESCRIPTION: 2A Configuration Per Rockwell Lines VL70-000095

Scale Model = 0.004

DRAWING NUMBER: VL70-000095

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Area FT^2	<u>106.38</u>	<u> </u>	<u>0.0017</u>
Span (equivalent) in.	<u>201.0</u>	<u> </u>	<u>0.804</u>
Inb'd equivalent chord	<u>91.585</u>	<u> </u>	<u>0.366</u>
Outb'd equivalent chord	<u>50.833</u>	<u> </u>	<u>0.203</u>
Ratio movable surface chord/ total surface chord			
At Inb'd equiv. chord	<u>0.400</u>	<u> </u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u> </u>	<u>0.400</u>
Sweep Back Angles, degrees			
Leading Edge	<u>34.83</u>	<u> </u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u> </u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u> </u>	<u>34.83</u>
Area Moment	<u>526.13</u>	<u> </u>	<u>0.00003</u>
(Normal to hinge line) FT			
Produce to area and mean chord			

TABLE III (Continued)

MODEL COMPONENT: BODY - External Tank T9

GENERAL DESCRIPTION: 2A Configuration Per Rockwell Lines VL78-000018 and
VL72-000061B; Body of Revolution, Without Retro Package

Scale Model = .004

DRAWING NUMBER: VL78-000018

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length, in.	<u>1989.00</u>	<u>7.956</u>
Max. Width (Dia), in.	<u>324.00</u>	<u>1.296</u>
Max. Depth	<u> </u>	<u> </u>
Fineness Ratio L/D	<u>6.13889</u>	<u>6.13889</u>
Area, Ft ²		
Max. Cross-Sectional	<u>572.55</u>	<u>0.009</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

REF.

FS (Orbiter) = 0.00 = TANK Station 751 INFS

WP (ET) = 400 - 344.413 = 55.587 INFS

BP (Orbiter) = 0.00 = 0.00 ET

TABLE III (Continued)

MODEL COMPONENT: BODY - S3 Booster Solid Rocket Motor

GENERAL DESCRIPTION: 2A Configuration Per Rockwell Lines VL77-000012 and

VL72-000061B

Body of Revolution, Data for (1) of (2) Sides

Scale Model = .004

DRAWING NUMBER: VL77-000012

Data for (1) of (2) Sides

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length, in. (including nozzle)	<u>1758.00</u>	<u>7.032</u>
Max. Width(Dia) in. BSRM Tank	<u>142.00</u>	<u>0.568</u>
Max. Depth (Dia) AFT Skirt	<u>259.00</u>	<u>1.036</u>
Fineness Ratio	<u>6.787</u>	<u>6.787</u>
Area, Ft ²		
Max. Cross-Sectional	<u>365.87</u>	<u>0.0059</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

REF.

FS (Orbiter) = 0.00 = 751 in. ET = 202.0 BSRM

WP (BSRM) = WP 400 (Orbiter) - 344.413 = 55.587 INFS

BP (Orbiter) = 0.00 = 243.0 BSRM

TABLE III (Continued)

MODEL COMPONENT: BODY - Aft Orbiter and SRB Attach Structure-U₅

GENERAL DESCRIPTION: 2A Configuration Per Rockwell Lines
VL72-000061B and VL78-000018

Scale Model = .004

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Orbiter Attach Station	<u>1307 in.</u>	<u>5.228 in.</u>
ET Attach Station	<u>2508 in.</u>	<u>8.232 in.</u>
SRB Attach Station	<u>1509 in.</u>	<u>6.036 in.</u>
Area		
Approx. Max. Frontal Area	<u>109 Ft²</u>	<u>.25 in.²</u>
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

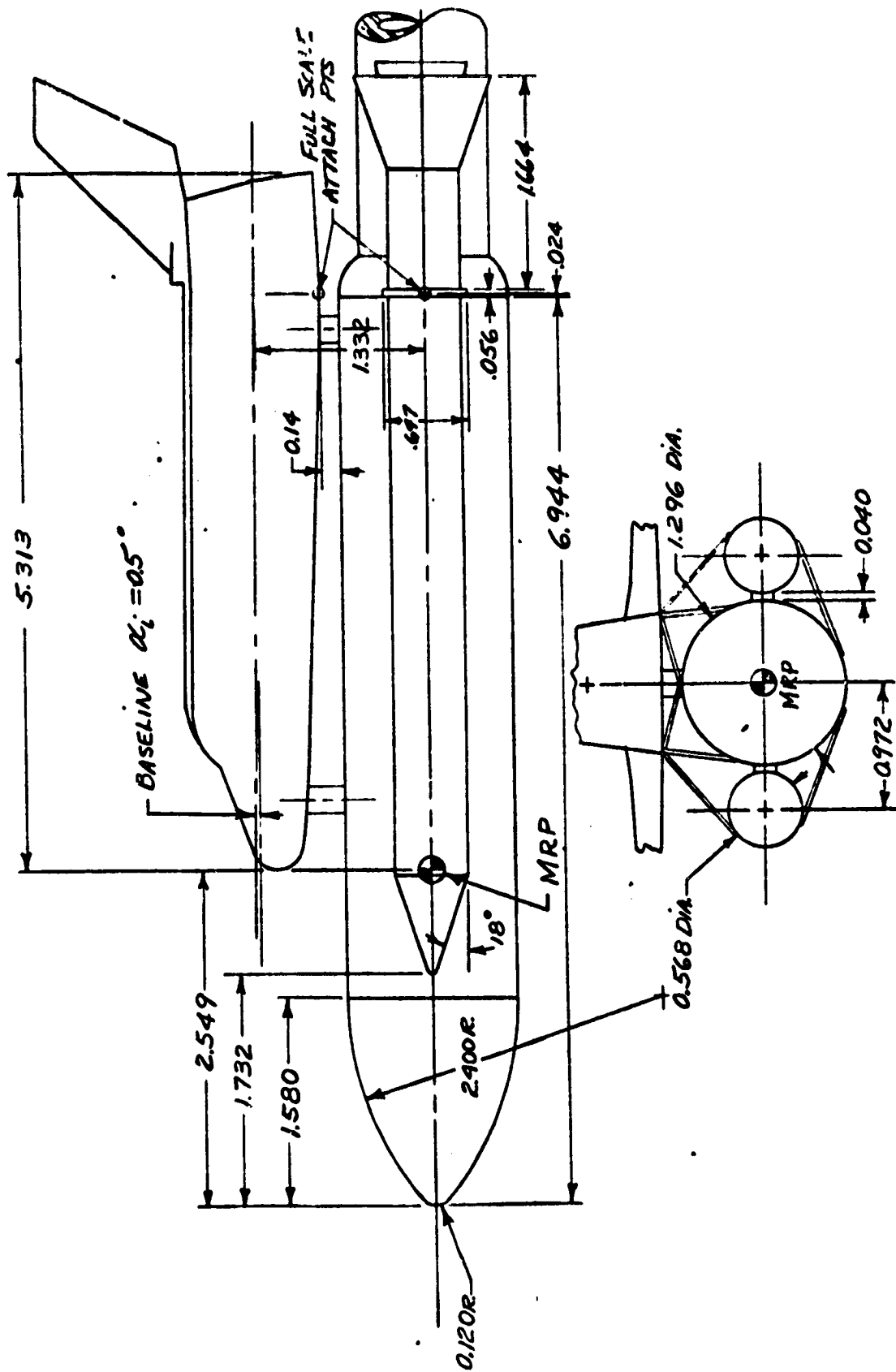


Figure 1. Major Dimensions of Model Components

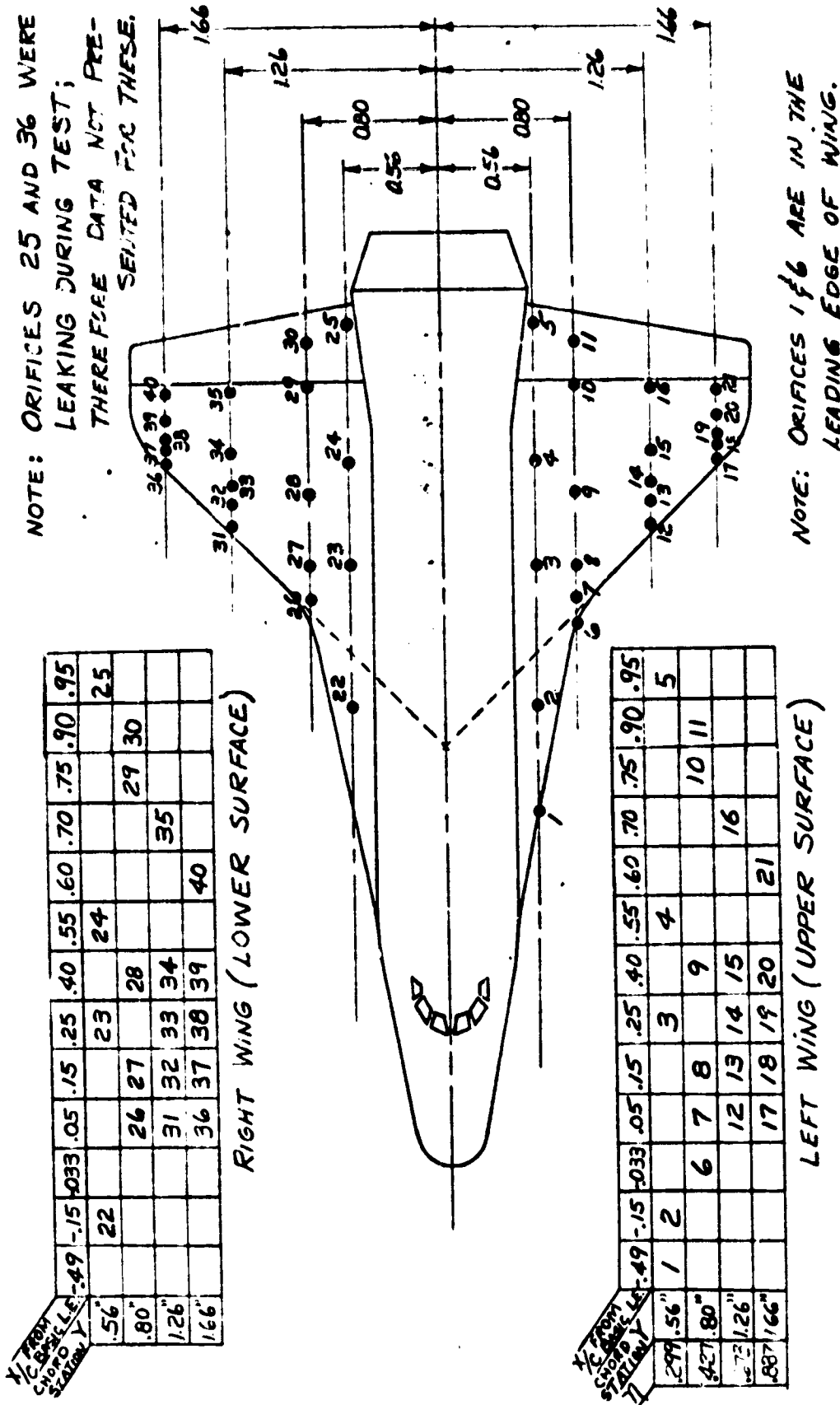


Figure 2. Orbiter Wing Pressure Orifice Locations and Numbering System

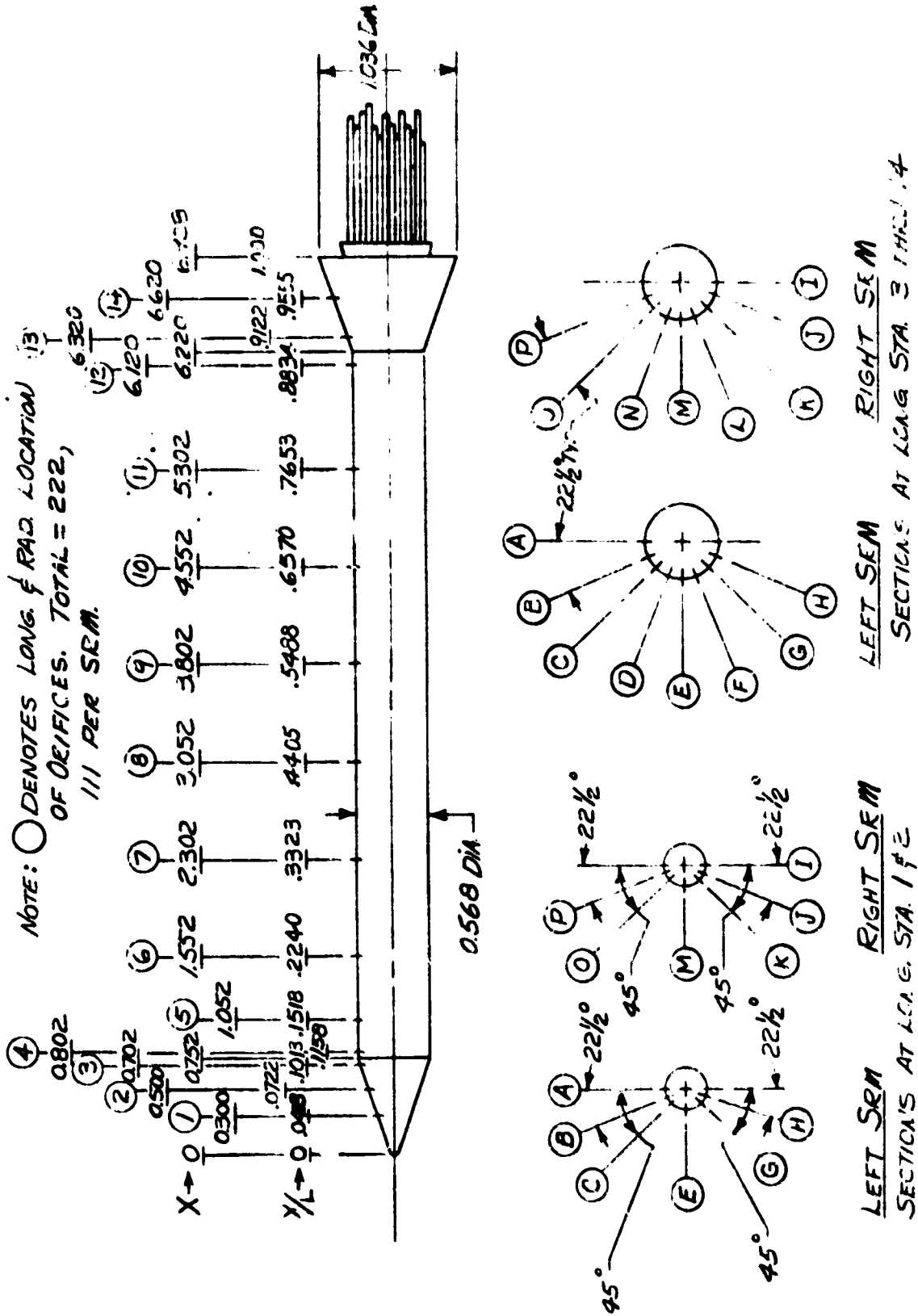


Figure 3. SRM Pressure Orifice Locations

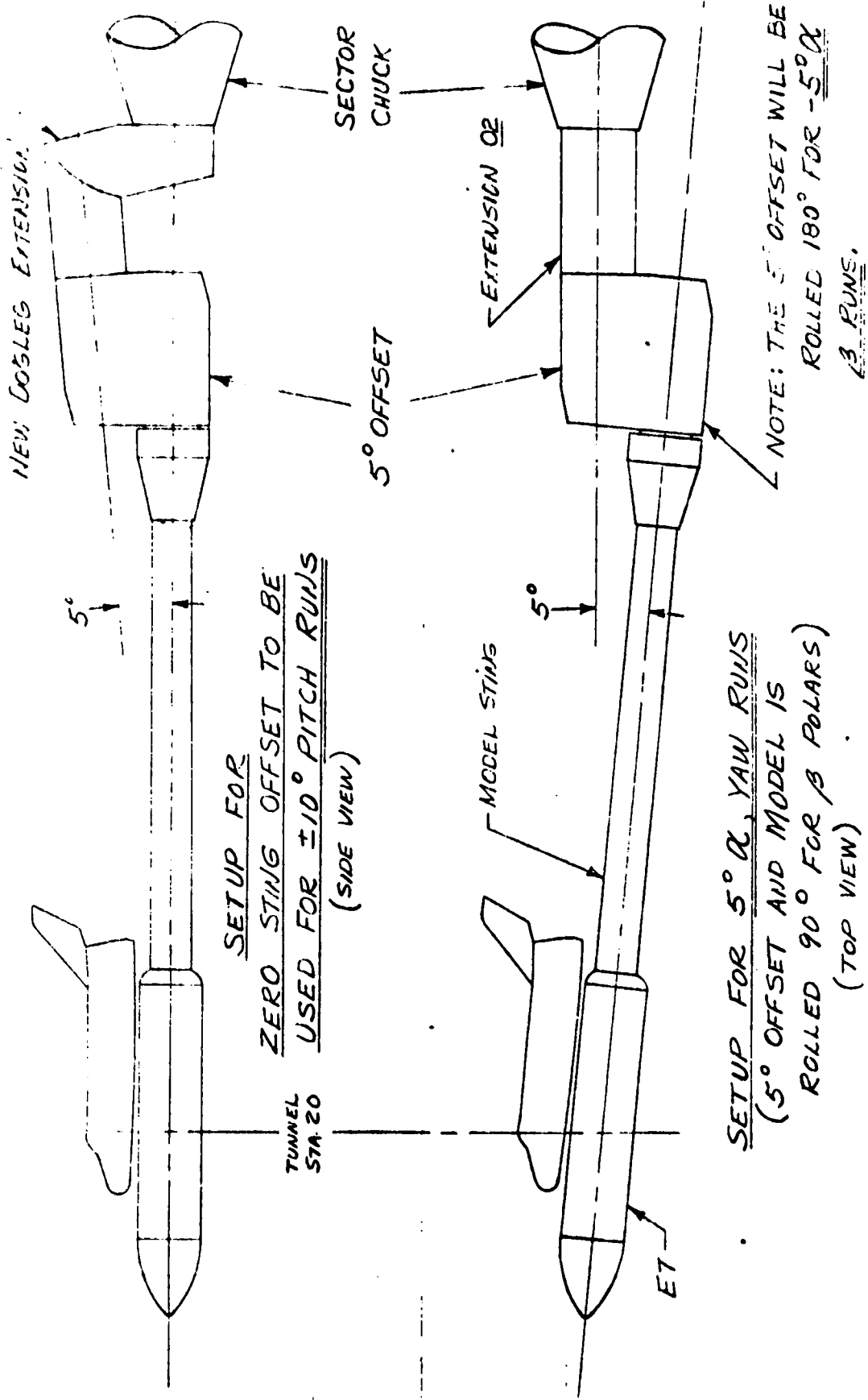


Figure 5. Sting and Model Configurations for Shuttle Launch Pressure Test

APPENDIX
TABULATED SOURCE DATA

Tabulations of plotted data are available
on request from Data Management Services.

NSFC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK (R02T01) (24 APR 74)

REFERENCE DATA

SREF = 6.1980 CAL IN. XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040 SCALE

PARAMETRIC DATA

BETA = .000 CONF10 = 90.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBITNC = .500

MACH (1) = .600 ALPHA (1) = -10.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.3822	-.0317	-.0290	.0528	.1497	.2289	.2651	.2219	-.6174	-.3320	-.1595	-.0752	-.0476	-.0520
18.000	.3493	-.0457	-.0580	.0378	.1355	.2006	.2112	.1487	-.2824	-.1742	-.1553	-.1173	-.0823	-.0572	-.0661
36.000	.2803	-.0928	-.0795	.0053	.1176	.1600	.1326	.0672	-.1140	-.0910	-.0741	-.0485	-.0361	-.0440	-.0688
54.000	.1846	-.1686	-.1182	-.0184	.1281	.1838	.1140	.0398	-.0423	-.0749	-.0458	-.0246	-.0167	-.0176	-.0449
72.000	.0873	-.2416	-.1481	.0079	.1773	.2786	.1191	-.0140	-.0317	-.0546	-.0185	-.0044	-.0008	-.0097	-.0334
90.000	-.0237	-.3205	-.2163	-.0087	.0416	-.0582	-.4716	-.7710	-.2401	-.0679	-.0414	-.0378	-.0458	-.0529	-.0449
108.000	-.0872	-.3695	-.2901	-.1252	.1622	-.3535	-.6235	-.7611	-.4736	-.1799	-.0317	-.0361	-.0396	-.0378	-.0449
126.000	-.1402	-.4030	-.2954	-.2081	.1649	-.2443	-.3166	-.3139	-.2666	-.2001	-.0752	-.0415	-.0335	-.0362	-.0406
144.000	-.1700	-.4192	-.3409	-.2299	.1286	-.1488	-.1700	-.1700	-.1753	-.1506	-.0572	-.0439	-.0413	-.0413	-.0422
162.000	-.1935	-.4208	-.3457	-.2546	.0945	-.0962	-.1121	-.1175	-.1325	-.1077	-.0502	-.0281	-.0237	-.0326	-.0405
180.000	-.1951	-.4283	-.3435	-.2914	.0758	-.0620	-.0926	-.1014	-.1103	-.0908	-.0501	-.0289	-.0263	-.0281	-.0553
198.000	-.1700	-.4192	-.3409	-.2299	.1286	-.1488	-.1700	-.1700	-.1753	-.1506	-.0572	-.0439	-.0413	-.0413	-.0422
216.000	-.1402	-.4030	-.2954	-.2081	.1649	-.2443	-.3166	-.3139	-.2666	-.2001	-.0752	-.0415	-.0335	-.0362	-.0406
234.000	-.0872	-.3695	-.2901	-.1252	.1622	-.3535	-.6235	-.7611	-.4736	-.1799	-.0317	-.0361	-.0396	-.0378	-.0449
252.000	-.0237	-.3205	-.2163	-.0087	.0416	-.0582	-.4716	-.7710	-.2401	-.0679	-.0414	-.0378	-.0458	-.0529	-.0449
288.000	.0873	-.2416	-.1481	.0079	.1773	.2786	.1191	-.0140	-.0317	-.0546	-.0185	-.0044	-.0008	-.0097	-.0334
306.000	.1846	-.1686	-.1182	-.0184	.1281	.1838	.1140	.0398	-.0423	-.0749	-.0458	-.0246	-.0167	-.0176	-.0449
324.000	.2803	-.0928	-.0795	.0053	.1176	.1600	.1326	.0672	-.1140	-.0910	-.0741	-.0485	-.0361	-.0440	-.0688
342.000	.3493	-.0457	-.0580	.0378	.1355	.2006	.2112	.1487	-.2824	-.1742	-.1553	-.1173	-.0823	-.0572	-.0661
360.000	.3822	-.0317	-.0290	.0528	.1497	.2289	.2651	.2219	-.6174	-.3320	-.1595	-.0752	-.0476	-.0520	-.0520
378.000	.9116	.9836							-.2824						

X/LT .9116 .9836

PHI

.000	-.0132	-.6571
18.000	-.0741	-.3651
36.000	-.1137	-.2734
54.000	-.0881	-.1984
72.000	-.0220	-.0960
90.000	.0619	-.2392
108.000	-.0202	-.1271
126.000	-.0503	-.1585
144.000	-.0581	-.1666
162.000	-.0599	-.1684
180.000	-.0515	-.1591
198.000	-.0599	-.1684

PRECEDING PAGE BLANK NOT FILMED

ORIGINAL PAGE IS OF POOR QUALITY

(R62T01)

EXTERNAL TANK

MACH (1) = .600 ALPHA (1) = -10.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .9116 .9836

PHI	216.000	-.0581	-.1686
	234.000	-.0503	-.1565
	252.000	-.0202	-.1271
	270.000	.0619	-.2392
	288.000	-.0220	-.0960
	306.000	-.0881	-.1964
	324.000	-.1137	-.2734
	342.000	-.0741	-.3651
	360.000	-.0132	-.6571

MACH (1) = .600 ALPHA (2) = -8.000 0 = 4.3818 PTA = 88.010 RL = 5.0011 PRA = 17.238

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.3300	-.0750	-.0564	.0302	.1337	.2097	.2822	.2159	-.6426	-.3453	-.1583	-.0697	-.0378
	18.000	.2948	-.0907	-.0908	.0098	.1175	.1792	.1933	.1369	-.2883	-.1931	-.1253	-.0803	-.0502
	36.000	.2503	-.1173	-.0908	.0035	.1127	.1524	.1242	.0642	-.1146	-.0944	-.0520	-.0370	-.0573
	54.000	.1726	-.1768	-.1197	-.0465	.1269	.1665	.0872	.0199	-.0570	-.0834	-.0237	-.0149	-.0237
	72.000	.0990	-.2325	-.1370	.0460	.1874	.2644	.0663	-.0485	-.0592	-.0680	-.0255	-.0035	-.0228
	90.000	.0081	-.2956	-.1858	.0320	.0932	.0347	.3638	-.7102	-.2380	-.0564	-.0334	-.0308	-.0334
	108.000	-.0451	-.3476	-.2475	-.0939	.0939	-.2644	.5777	-.6638	-.4286	-.1907	-.0211	-.0228	-.0290
	126.000	-.0945	-.3749	-.2749	-.1741	.1316	-.2094	.2961	-.2793	-.2236	-.1785	-.0476	-.0361	-.0325
	144.000	-.1219	-.3943	-.3200	-.2431	.1033	-.1316	.1817	-.1555	-.1493	-.1263	-.0476	-.0245	-.0343
	162.000	-.1434	-.4069	-.3315	-.2578	.0875	-.0928	.1088	-.1097	-.1177	-.0946	-.0245	-.0272	-.0351
	180.000	-.1456	-.4071	-.3294	-.2772	.0758	-.0828	.0908	-.0961	-.0967	-.0811	-.0458	-.0255	-.0228
	198.000	-.1434	-.4069	-.3315	-.2578	.0875	-.0928	.1088	-.1097	-.1177	-.0946	-.0245	-.0272	-.0351
	216.000	-.1219	-.3943	-.3200	-.2431	.1033	-.1316	.1817	-.1555	-.1493	-.1263	-.0476	-.0245	-.0343
	234.000	-.0945	-.3749	-.2749	-.1741	.1316	-.2094	.2961	-.2793	-.2236	-.1785	-.0476	-.0325	-.0325
	252.000	-.0451	-.3478	-.2475	-.0939	.0939	-.2644	.5777	-.6638	-.4286	-.1907	-.0211	-.0228	-.0290
	270.000	.0081	-.2956	-.1858	.0320	.0932	.0347	.3638	-.7102	-.2380	-.0564	-.0334	-.0308	-.0334
	288.000	.0990	-.2325	-.1370	.0460	.1874	.2644	.0663	-.0485	-.0592	-.0680	-.0255	-.0079	-.0228
	306.000	.1726	-.1768	-.1187	-.0465	.1269	.1665	.0872	.0199	-.0570	-.0834	-.0237	-.0149	-.0237
	324.000	.2503	-.1173	-.0908	.0035	.1127	.1524	.1242	.0642	-.1146	-.0944	-.0520	-.0370	-.0405
	342.000	.2948	-.0907	-.0908	.0098	.1175	.1792	.1933	.1369	-.2883	-.1931	-.1253	-.0803	-.0502
	360.000	.3300	-.0750	-.0564	.0302	.1337	.2097	.2822	.2159	-.6426	-.3453	-.1583	-.0697	-.0378
	378.000									-.2963				

X/LT .9116 .9836

PHI	.000	-.0070	-.6421
	18.000	-.0582	-.3474

NSFC 587(1132EF) TO 53/2 53/2 03 EXTERNAL TANK (R02T01)

MACH (1) = .600 ALPHA (2) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .8838

PHI	
35.000	-.0961
54.000	-.0652
72.000	-.0026
90.000	.0803
108.000	.0025
126.000	-.0334
144.000	-.0502
162.000	-.0528
180.000	-.0511
198.000	-.0528
216.000	-.0502
234.000	-.0334
252.000	-.0025
270.000	.0803
288.000	-.0026
306.000	-.0652
324.000	-.0961
342.000	-.0582
360.000	-.0070

MACH (1) = .600 ALPHA (3) = -5.000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.236

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X..T .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	
.000	.2536
18.000	.2232
36.000	.1925
54.000	.1582
72.000	.1153
90.000	.0530
108.000	.0197
126.000	-.0102
144.000	-.0342
162.000	-.0538
180.000	-.0328
198.000	-.0538
216.000	-.0342
234.000	.0102
252.000	.0157
270.000	.0530
288.000	.1153
306.000	.1582

TABLULATED SOURCE DATA, M5FC TMT 587 (1A32F)

DATE 05 SEP 75

(1827011)

M5FC 587(1A32F) 19 53/2 53/2 03 EXTERNAL TANK

MACH (1) = .600 ALPHA (3) = -5.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2397	.2707	.3139	.3489	.3816	.4378	.5055	.5732	.6406	.7065	.7762	.8439
PHI	.1986	-.1941	-.1175	-.0763	.1079	.1356	.1070	.0542	-.1201	-.0951	-.0700	-.0414	-.0173	-.0155	-.0164
324.000	.2252	-.1351	-.1119	-.0829	.1101	.1708	.1869	.1414	-.2894	-.1886	-.1590	-.1196	-.0645	-.0174	-.0156
342.000	.2536	-.1349	-.0829	.0022	.1143	.1921	.2402	.2144	9.9990	-.6536	-.3369	-.1472	-.0520	-.0093	-.0040
360.000									-.2894						
378.000															

X/LT .9116 .9836

PHI

.000	.0191	-.5869
18.000	-.0315	-.3074
35.000	-.0661	-.2268
54.000	-.0268	-.1488
72.000	.0298	-.0478
90.000	.0975	-.1439
108.000	.0253	-.0564
126.000	-.0146	-.1143
144.000	-.0280	-.1339
162.000	-.0271	-.1331
180.000	-.0315	-.1378
198.000	-.0271	-.1331
216.000	-.0280	-.1339
234.000	-.0146	-.1143
252.000	.0253	-.0564
270.000	.0975	-.1439
288.000	.0298	-.0478
306.000	-.0268	-.1488
324.000	-.0661	-.2268
342.000	-.0315	-.3074
360.000	.0191	-.5869

MACH (1) = .600 ALPHA (4) = -2.000 Q = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2397	.2707	.3139	.3499	.3816	.4378	.5065	.5732	.6406	.7065	.7762	.8439
PHI	.1716	-.1964	-.1242	-.0280	.0905	.1707	.2259	.2090	-.6714	-.3346	-.1393	-.0064	.0217		
18.000	.1508	-.1926	-.1479	-.0548	.0691	.1499	.1768	.1365	-.2883	-.1864	-.1501	-.0547	-.0065	.0075	
36.000	.1480	-.1917	-.1426	-.0728	.0681	.1158	.0925	.0487	-.1139	-.0853	-.0690	-.0423	-.0138	-.0013	.0084
54.000	.1286	-.2024	-.1365	-.0155	.1143	.1072	.0111	-.0306	-.0787	-.0636	-.0440	-.0209	-.0022	.0128	.0235
72.000	.1065	-.2142	-.1224	.0914	.1805	.1832	.1269	-.1304	-.1365	-.0297	-.0439	-.0025	-.0033	.0129	.0236
90.000	.0728	-.2368	-.1243	.0835	.1968	.2385	.1727	-.3787	-.0306	-.0445	-.0451	-.0030	.0084	.0182	.0066
108.000	.0628	-.2579	-.1365	.0057	.0635	-.0235	-.4129	-.3096	-.2561	-.0672	-.0235	-.2205	-.0119	-.0013	.0066
126.000	.0450	-.2721	-.2115	-.0707	-.0021	-.0663	-.1866	-.1714	-.1233	-.0556	-.0369	-.0200	-.0119	-.0093	-.0022

MSFC 987(1A3ZF) T9 S3/2 S3/2 03 EXTERNAL TANK (R82701)

MACH (1) = .800 ALPHA (4) = -2.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3138	.3499	.3816	.4378	.5055	.5732	.6406	.7085	.7762	.8439
PM1															
144.000	.0427	-.2953	-.2468	-.1913	-.0382	-.0686	-.0989	-.1034	-.0255	-.0523	-.0289	-.0156	-.0076	-.0076	-.0049
162.000	.0324	-.3065	-.2727	-.1704	-.0547	-.0256	-.0725	-.0760	-.0751	-.0493	-.0255	-.0121	.0011	-.0041	-.0041
180.000	.0335	-.3103	-.2656	-.2469	-.0477	-.0568	-.0646	-.0655	-.0638	-.0432	-.0272	-.0165	-.0076	-.0067	-.0263
198.000	.0324	-.3085	-.2727	-.1704	-.0547	-.0256	-.0725	-.0760	-.0751	-.0493	-.0255	-.0121	.0011	-.0041	-.0041
216.000	.0427	-.2953	-.2468	-.1913	-.0382	-.0686	-.0989	-.1034	-.0255	-.0523	-.0289	-.0156	-.0076	-.0076	-.0049
234.000	.0450	-.2721	-.2115	-.0707	-.0021	-.0663	-.1866	-.1714	-.1233	-.0556	-.0369	-.0200	-.0119	-.0093	-.0022
252.000	.0628	-.2579	-.1385	-.0357	.0655	-.0235	-.4129	-.3096	-.2561	-.0672	-.0351	-.0208	-.0119	-.0013	-.0066
270.000	.0728	-.2368	-.1243	.0835	.1969	.2085	-.1707	-.3787	-.0306	-.0306	-.0405	-.0191	.0030	.0064	.0182
288.000	.1065	-.2142	-.1224	.0914	.1805	.1832	-.1269	-.1304	-.1385	-.0297	-.0439	-.0225	.0003	.0129	.0236
306.000	.1286	-.2024	-.1365	-.0155	.1143	.1072	.0111	-.0306	-.0787	-.0636	-.0440	-.0209	-.0022	.0128	.0232
324.000	.1480	-.1917	-.1426	-.0728	.0861	.1158	.0925	.0487	-.1139	-.0853	-.0690	-.0423	-.0138	-.0013	.0084
342.000	.1508	-.1926	-.1479	-.0548	.0891	.1489	.1768	.1365	-.2883	-.1864	-.1501	-.1161	-.0547	-.0065	-.0075
360.000	.1715	-.1964	-.1242	-.0280	.0905	.1707	.2259	.2050	9.9990	-.6714	-.3346	-.1393	-.0360	-.0084	.0217
378.000									-.2883						

X/LT .9116 .9836

PM1	
.000	.0360
18.000	.0004
36.000	-.0298
54.000	.0030
72.000	.0503
90.000	.1037
108.000	.0351
126.000	.0004
144.000	-.0129
162.000	-.0168
180.000	-.0227
198.000	-.0186
216.000	-.0129
234.000	.0004
252.000	.0351
270.000	.1037
288.000	.0503
306.000	.0030
324.000	-.0298
342.000	.0004
360.000	.0360

TABLATED SOURCE DATA, MSFC TWT 567 (1A32F)

DATE 05 SEP 75

MACH (1) = .600 ALPHA (5) = .000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK (R627011)

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.1149	-.2353	-.1491	-.0513	.0740	.1576	.2154	.2012	-.2937	-.1889	-.3272	-.1335	-.0287	.0176	.0319
18.000	.1024	-.2324	-.1773	-.0725	.0695	.1317	.1619	.1228	-.2937	-.1889	-.1546	-.1147	-.0475	.0061	.0274
36.000	.0977	-.2247	-.1689	-.0750	.0685	.0951	.0729	.0339	-.1219	-.0900	-.0701	-.0387	-.0110	.0041	.0193
54.000	.0958	-.2245	-.1563	-.0201	.0887	.0763	-.0209	-.0537	-.0935	-.0696	-.0504	-.0262	-.0073	.0142	.0303
72.000	.0982	-.2291	-.1366	.0795	.1515	.1320	-.2024	-.1597	-.1864	-.0467	-.0548	-.0270	-.0010	.0168	.0347
90.000	.0735	-.2369	-.0751	.0557	.1955	.2231	.1400	-.2691	-.0492	-.0430	-.0198	-.0011	.0105	.0238	.0233
108.000	.0848	-.2445	-.1407	.0132	.0982	.0354	-.3268	-.2481	-.0610	-.0350	-.0145	-.0082	.0015	.0123	.0123
126.000	.0857	-.2520	-.1982	-.0817	.0203	-.0316	.1543	.1516	-.1131	-.0459	-.0305	-.0171	-.0127	-.0091	.0028
144.000	.0807	-.2673	-.2295	-.1854	-.0262	-.0406	-.0820	-.0928	-.0775	-.0487	-.0288	-.0154	-.0091	-.0091	.0073
162.000	.0839	-.2722	-.2517	-.1702	-.0440	-.0440	.0610	.0637	-.0637	-.0386	-.0288	-.0180	-.0136	-.0109	.0297
180.000	.0831	-.2771	-.2466	-.2287	-.0440	-.0476	-.0566	-.0593	-.0557	-.0365	-.0287	-.0162	-.0091	-.0091	.0073
198.000	.0839	-.2722	-.2517	-.1702	-.0440	-.0440	.0610	.0637	-.0637	-.0386	-.0288	-.0180	-.0136	-.0109	.0297
216.000	.0857	-.2520	-.1982	-.0817	.0203	-.0316	.1543	.1516	-.1131	-.0459	-.0305	-.0171	-.0127	-.0091	.0028
234.000	.0848	-.2445	-.1407	.0132	.0982	.0354	-.3268	-.2481	-.0610	-.0350	-.0145	-.0082	.0015	.0123	.0123
252.000	.0735	-.2389	-.0751	.0557	.1955	.2231	.1400	-.2691	-.0492	-.0430	-.0198	-.0011	.0105	.0238	.0233
270.000	.0982	-.2291	-.1366	.0795	.1515	.1320	-.2024	-.1597	-.1864	-.0467	-.0548	-.0270	-.0010	.0168	.0347
288.000	.0958	-.2245	-.1563	-.0201	.0887	.0763	-.0209	-.0537	-.0935	-.0696	-.0504	-.0262	-.0073	.0142	.0303
306.000	.0977	-.2247	-.1689	-.0750	.0685	.0951	.0729	.0339	-.1219	-.0900	-.0701	-.0387	-.0110	.0041	.0193
324.000	.1024	-.2324	-.1773	-.0725	.0695	.1317	.1619	.1228	-.2937	-.1889	-.1546	-.1147	-.0475	.0061	.0274
342.000	.1149	-.2353	-.1491	-.0513	.0740	.1576	.2154	.2012	-.2937	-.1889	-.3272	-.1335	-.0287	.0176	.0319
378.000															

X/LT	.9116	.9836
PHI	.0435	-.9518
18.000	.0087	-.2650
36.000	-.0127	-.1887
54.000	.0124	-.1169
72.000	.0563	-.0171
90.000	.1104	-.0993
108.000	.0427	-.0360
126.000	.0033	-.0939
144.000	-.0109	-.1192
162.000	-.0198	-.1296
180.000	-.0270	-.1353
198.000	-.0198	-.1296
216.000	-.0109	-.1192
234.000	.0033	-.0939
252.000	.0427	-.0360
270.000	.1104	-.0993
288.000	.0563	-.0171
306.000	.0124	-.1169
324.000	-.0127	-.1887

(R82701)

EXTERNAL TANK

MSFC 567(1A3EF) T9 S3/2 S3/2 03

MACH (1) = .600 ALPHA (5) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9118 .9836

PHI
342.000 .0087 -.2680
360.000 .0455 -.9518

MACH (1) = .600 ALPHA (6) = 2.000 Q = 4.3618 PTA = 22.010 RL = 9.0011 PSA = 17.238

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1950 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI
18.000 .0427 -.2846 -.1785 -.1208 .0551 .1418 .2084 .2811

36.000 .0383 -.2738 -.2073 -.0733 .0525 .1208 .1954 .2708
54.000 .0419 -.2676 -.2019 -.0875 .0454 .0747 .0579 .0241
72.000 .0515 -.2566 -.1813 -.0352 .0630 .0453 -.0538 -.0724
90.000 .0675 -.2507 -.1497 .0409 .1189 .0772 -.2889 -.1922
108.000 .0636 -.2460 .0636 .1969 .2331 -.1172 .-2354
126.000 .0913 -.2486 -.1182 .1223 .0905 -.2466 -.2139
144.000 .1081 -.2407 .1893 -.0751 .0408 .0045 .-1167 .-0928
162.000 .1205 .-2457 .-2156 .-1678 .-0121 .-0209 .-0616 .-0767
180.000 .1325 .-2419 .-2295 .-1668 .-0325 .-0431 .-0476 .-0323
198.000 .1386 .-2398 .-2275 .-1975 .-0316 .-0307 .-0413 .-0457
216.000 .1325 .-2419 .-2295 .-1668 .-0325 .-0255 .-0431 .-0476
234.000 .1205 .-2457 .-2156 .-1678 .-0121 .-0209 .-0616 .-0767
252.000 .1081 .-2407 .1893 -.0751 .0408 .0045 .-1167 .-0928
270.000 .0636 .-2460 .0636 .1969 .2331 .-1172 .-2354
288.000 .0475 .-2507 .-1497 .0409 .1189 .0772 .-2889 .-1922
306.000 .0515 .-2566 .-1813 .-0352 .0630 .0453 .-0538 .-0724
324.000 .0419 .-2676 .-2019 .-0875 .0454 .0747 .0579 .0241
342.000 .0383 .-2738 .-2073 .-0733 .0525 .1208 .1954 .2708
360.000 .0427 .-2846 .-1785 .-1208 .0551 .1418 .2084 .2811
378.000 .0427 .-2846 .-1785 .-1208 .0551 .1418 .2084 .2811

X/LT .9118 .9836

PHI
18.000 .0651 -.5603
36.000 .0259 -.2549
54.000 .0020 -.1860
72.000 .0255 -.0959
90.000 .0687 .-0041
108.000 .1235 .-0893
126.000 .0515 .-0254
144.000 .0765 .-0841
162.000 .-0050 .-1101

HFPC 987(1A38F) TO 57/2 53/2 03 EXTERNAL TANK (R082101)

MACH (1) = 0.78 ALPHA (7) = 5.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9118 .0038

Phi

.000	.0000	-.0047
10.000	.0618	-.0845
30.000	.0315	-.1715
50.000	.0535	-.0783
72.000	.0872	.0098
90.000	.1270	-.0599
108.000	.0657	-.0159
126.000	.0211	-.0713
144.000	.0052	-.0868
162.000	-.0027	-.1149
180.000	-.0123	-.1225
198.000	-.0027	-.1149
216.000	.0052	-.0968
234.000	.0211	-.0713
252.000	.0607	-.0159
270.000	.1270	-.0599
288.000	.0872	.0098
306.000	.0535	-.0783
324.000	.0315	-.1715
342.000	.0510	-.2845
360.000	.0880	-.5647

MACH (1) = 0.80 ALPHA (8) = 0.000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5095 .5732 .6408 .7085 .7762 .8439

Phi

.000	-.1161	-.3065	-.2106	-.0632	.0431	.1359	.2085	.2209	-.6150	-.2593	-.0799	.0240	.0761	.0992
10.000	-.1192	-.3625	-.2714	-.0758	.0319	.1018	.1540	.1372	-.2740	-.1573	-.1263	.0001	.0620	.0894
30.000	-.1006	-.3505	-.2657	-.1185	.0018	.0327	.0380	.0239	-.1112	-.1014	-.0502	-.0069	.0274	.0857
50.000	-.0750	-.3434	-.2575	-.1397	-.0308	-.0662	-.1353	-.1149	-.1202	-.1371	-.0343	-.0069	.0222	.0877
72.000	-.0228	-.3178	-.2225	-.0308	-.0140	-.1368	-.4901	-.3475	-.2587	-.1615	-.0295	-.0069	.0213	.0558
90.000	.0238	-.2831	-.1849	.0262	.1376	.1252	-.2672	-.5621	-.1860	-.0573	-.0299	-.0016	.0337	.0700
108.000	.1109	-.2387	-.1427	.0396	.1664	.2168	-.0123	-.1110	-.0722	-.0317	.0178	.0178	.0337	.0461
126.000	.1804	-.1907	-.1518	-.0691	.0575	.0581	.0045	-.0370	-.0284	-.0219	.0116	.0142	.0240	.0328
144.000	.2493	-.1520	-.1582	-.0999	.0398	.0477	.0168	-.0061	-.0132	-.0141	.0000	.0141	.0159	.0282
162.000	.2913	-.1222	-.1539	-.0906	.0229	.0343	.0193	.0105	-.0034	-.0008	.0063	.0196	.0213	.0275
180.000	.3083	-.1136	-.1542	-.0898	.0204	.0274	.0195	.0098	.0036	.0071	.0115	.0222	.0257	.0354
198.000	.2913	-.1222	-.1539	-.0906	.0229	.0343	.0193	.0105	-.0034	-.0008	.0063	.0196	.0213	.0275
216.000	.2493	-.1520	-.1582	-.0999	.0398	.0477	.0168	-.0061	-.0132	-.0141	.0000	.0141	.0159	.0282
234.000	.1884	-.1907	-.1519	-.0891	.0575	.0581	.0045	-.0370	-.0284	-.0219	.0116	.0142	.0159	.0328
252.000	.1109	-.2387	-.1427	.0396	.1664	.2168	-.0123	-.1110	-.0722	-.0317	.0178	.0178	.0337	.0461
270.000	.0238	-.2831	-.1849	.0262	.1376	.1252	-.2672	-.5621	-.1860	-.0573	-.0299	-.0016	.0337	.0700

DATE 05 SEP 79 TABULATED SOURCE DATA, MSCFC TMT 967 (1A32F)

(R82101)

MSCFC 567(1A32F) 19 53/2 53/2 03 EXTERNAL TANK

MACH (1) = .600 ALPHA (8) = 8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PH1															
269.000	-.0228	-.3179	-.2229	-.0308	-.0140	-.1368	-.4901	-.3479	-.2587	-.1615	-.0255	-.0069	.0213	.0528	.0895
306.000	-.0750	-.3434	-.2575	-.1397	-.0308	-.0662	-.1353	-.1149	-.1202	-.1371	-.0343	-.0069	.0222	.0538	.0877
324.000	-.1006	-.3505	-.2657	-.1165	00.18	-.0327	.0380	.0239	-.1112	-.1014	-.0502	-.0069	.0274	.0539	.0857
342.000	-.1192	-.3625	-.2714	-.0759	.0319	.1018	.1540	.1372	-.2740	-.1573	-.1263	-.0775	.0031	.0620	.0894
350.000	-.1161	-.3595	-.2199	-.0932	.0431	.1329	.2085	.2209	9.9990	-.6150	-.2593	-.0799	.0240	.0761	.0952
378.000									-.2740						

X/LT .9116 .9836

PH1	
.000	.1143
18.000	.0735
36.000	.0423
54.000	.0735
72.000	.1072
90.000	.1682
108.000	.0894
126.000	.0476
144.000	.0282
162.000	.0150
180.000	.0151
198.000	.0160
216.000	.0282
234.000	.0476
252.000	.0894
270.000	.1682
288.000	.1072
306.000	.0735
324.000	.0523
342.000	.0735
350.000	.1143

MACH (1) = .600 ALPHA (9) = 10.000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PH1															
.000	-.1844	-.3879	-.2792	-.0976	.0492	.1347	.2148	.2229	-.2537	-.1480	-.1213	-.0724	.0313	.0848	.1104
18.000	-.1684	-.3852	-.2901	-.0929	.0269	.0989	.1575	.1424	-.2537	-.1480	-.1213	-.0724	.0313	.0848	.1104
36.000	-.1497	-.3826	-.2828	-.1382	-.0182	.0137	.0270	.0181	-.1168	-.1124	-.0466	-.0077	.0241	.0559	.0851
54.000	-.1215	-.3764	-.2855	-.1501	-.0744	-.1039	-.1474	-.1216	-.1376	-.1235	-.0333	-.0000	.0333	.0559	.0851
72.000	-.0618	-.3514	-.2048	-.1107	-.0778	-.2182	-.3140	-.4314	-.3399	-.2145	-.0218	-.0255	.0215	.0612	.0948
90.000	-.0049	-.3100	-.1464	-.0245	.0919	.0475	.3608	-.7388	-.2789	-.0725	-.0432	-.0139	.0287	.0687	.0713

TABLULATED SOURCE DATA, MSFC INT 567 (1A32F)

(16821011)

DATE 05 SEP 73

EXTERNAL TANK

MACH (1) = .800 ALPHA (0) = 10.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/L	.0757	.1550	.2203	.2377	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
108.000	.0985	-.2486	-.1956	.0170	.1982	.2315	.0423	-.0833	-.0566	-.0343	.0190	.0270	.0270	.0439	.0946
126.000	.2029	-.1808	-.1514	-.0835	.0931	.1172	.0366	-.0113	-.0113	-.0139	.0074	.0189	.0216	.0313	.0420
144.000	.2882	-.1263	-.1478	-.0772	.0495	.0620	.0368	.0129	-.0004	-.0076	.0040	.0129	.0156	.0235	.0308
162.000	.3412	-.0812	-.1309	-.0626	.0365	.0500	.0435	.0294	.0161	.0125	.0195	.0252	.0279	.0324	.0341
180.000	.3567	-.0724	-.1293	-.0626	.0341	.0448	.0403	.0289	.0190	.0217	.0216	.0269	.0278	.0367	.0400
198.000	.3412	-.0812	-.1309	-.0626	.0365	.0506	.0435	.0294	.0161	.0125	.0195	.0252	.0279	.0324	.0341
216.000	.2882	-.1263	-.1478	-.0772	.0495	.0620	.0368	.0129	-.0004	-.0076	.0040	.0129	.0156	.0235	.0308
234.000	.2029	-.1808	-.1514	-.0835	.0931	.1172	.0366	-.0113	-.0113	-.0139	.0074	.0189	.0216	.0313	.0420
252.000	.0985	-.2486	-.1956	.0170	.1982	.2315	.0423	-.0833	-.0566	-.0343	.0190	.0270	.0270	.0439	.0946
270.000	-.0349	-.3100	-.1454	-.0245	.0919	.0475	-.3608	-.7338	-.7338	-.7338	-.7338	-.7338	-.7338	-.7338	-.7338
288.000	-.0518	-.3514	-.2048	-.1107	-.0778	-.2182	-.5140	-.4314	-.3289	-.2145	-.0218	-.0059	.0215	.0512	.0948
306.000	-.1426	-.3784	-.2895	-.1501	-.0744	-.1038	-.1474	-.1216	-.1376	-.1786	-.0200	.0021	.0224	.0598	.0982
324.000	-.1497	-.3826	-.2928	-.1382	-.0182	.0137	.0270	.0161	-.1168	-.1124	-.0466	-.0077	.0241	.0559	.0951
342.000	-.1804	-.3852	-.2901	-.0929	.0269	.0989	.1575	.1424	-.2537	-.1480	-.1213	-.0724	.0255	.0710	.1124
360.000	-.1644	-.3879	-.2792	-.0976	.0492	.1347	.2149	.2229	9.9990	-.6203	-.2578	-.0779	.0313	.0849	.1124
378.000															

X/L Y .9116 .9836

PHI															
.000	.1249	-.5314													
18.000	.0848	-.2599													
36.000	.0609	-.1439													
54.000	.0841	-.0539													
72.000	.1134	-.0312													
90.000	.1886	-.0823													
108.000	.1043	.0350													
126.000	.0571	-.0352													
144.000	.0325	-.0689													
162.000	.0252	-.0795													
180.000	.0225	-.0849													
198.000	.0252	-.0795													
216.000	.0325	-.0689													
234.000	.0571	-.0352													
252.000	.1043	.0350													
270.000	.1886	-.0823													
288.000	.1134	.0312													
306.000	.0841	-.0539													
324.000	.0609	-.1439													
342.000	.0848	-.2599													
360.000	.1249	-.5314													

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TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82701)

EXTERNAL TANK

MSFC 567(1A32F) 19 53/2 53/2 03

PTA = 22.007 RL = 6.2778 PSA = 12.985

MACH (2) = .900 ALPHA (1) = -10.000 0 = 7.3909 PTA = 30.816 RL = 5.055 PSA = 7.762

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.060	.4718	-.0579	-.0835	.0787	.2310	.3509	.4190	.3535	-.7097	-.2254	-.0564	.0122	.0393	.0439
18.000	.4361	-.0757	-.1181	.0847	.2212	.3252	.3561	.2620	-.1965	-.5950	-.1430	-.0124	.0143	.0330	.0345
36.000	.3689	-.1275	-.0888	.0586	.2145	.2962	.2648	.1591	-.1286	-.4409	-.1446	-.0008	.0337	.0390	.0274
54.000	.2733	-.2152	-.2235	.0830	.2434	.3299	.2319	.0814	-.0569	-.3462	-.1305	.0005	.0263	.0388	.0294
72.000	.1804	-.2996	-.2619	.1673	.3162	.4457	.2826	.0190	-.0674	-.2750	-.1087	.0035	.0267	.0403	.0335
90.000	.0713	-.3930	-.1093	.0739	.1995	.1681	-.0307	-.4286	-.4755	-.3490	-.1132	.0010	.0345	.0319	.0163
108.000	.0022	-.4603	-.1566	-.0313	.0502	-.2578	-.6931	-.6874	-.4781	-.3916	-.1328	-.0197	.0115	.0137	.0011
126.000	-.0537	-.5110	-.2387	-.0997	-.0709	-.1922	-.2779	-.4802	-.4781	-.3950	-.1691	-.0249	.0200	.0164	.0012
144.000	-.0925	-.5454	-.4260	-.0511	-.0323	-.1019	-.1988	-.3213	-.2857	-.3302	-.1401	-.0292	.0027	.0006	-.0061
162.000	-.1129	-.5599	-.3936	-.1400	.0084	-.0428	-.1369	-.2242	-.2164	-.2587	-.1144	-.0176	.0104	.0041	-.0073
180.000	-.1160	-.5597	-.3691	-.1620	.0221	-.0312	-.1181	-.1929	-.1924	-.2196	-.1054	-.0176	.0104	.0041	-.0073
198.000	-.1129	-.5599	-.3936	-.1400	.0084	-.0428	-.1369	-.2242	-.2164	-.2587	-.1144	-.0176	.0104	.0041	-.0073
216.000	-.0925	-.5454	-.4260	-.0511	-.0323	-.1019	-.1988	-.3213	-.2857	-.3302	-.1401	-.0292	.0027	.0006	-.0061
234.000	-.0537	-.5110	-.2387	-.0997	-.0709	-.1922	-.2779	-.4802	-.4781	-.3950	-.1691	-.0249	.0200	.0164	.0012
252.000	.0022	-.4603	-.1566	-.0313	-.0502	-.2578	-.6931	-.6874	-.4755	-.3490	-.1132	.0010	.0345	.0319	.0163
270.000	.0713	-.3930	-.1093	.0739	.1995	.1681	-.0307	-.4286	-.4755	-.3490	-.1132	.0010	.0345	.0319	.0163
288.000	.1804	-.2996	-.2619	.1673	.3162	.4457	.2826	.0190	-.0674	-.2750	-.1087	.0035	.0267	.0403	.0335
306.000	.3689	-.1275	-.0888	.0586	.2145	.2962	.2648	.1591	-.1286	-.4409	-.1446	.0005	.0263	.0388	.0294
324.000	.5400	-.2152	-.2235	.0830	.2434	.3299	.2319	.0814	-.0569	-.3462	-.1305	.0005	.0263	.0388	.0294
342.000	.7200	-.2996	-.2619	.1673	.3162	.4457	.2826	.0190	-.0674	-.2750	-.1087	.0035	.0267	.0403	.0335
360.000	.9000	-.3930	-.1093	.0739	.1995	.1681	-.0307	-.4286	-.4755	-.3490	-.1132	.0010	.0345	.0319	.0163
378.000	1.0800	-.4603	-.1566	-.0313	.0502	-.2578	-.6931	-.6874	-.4755	-.3490	-.1132	.0010	.0345	.0319	.0163

X/LT .9116 .9636

PHI	.000	.1172	-.6586
18.000	.0503	-.3473	
36.000	-.0108	-.2102	
54.000	-.0118	-.1060	
72.000	-.0356	-.0344	
90.000	.0987	-.1414	
108.000	.0241	-.0718	
126.000	-.2982	-.1020	
144.000	-.0260	-.1370	
162.000	-.0329	-.1541	
180.000	-.0375	-.1598	
198.000	-.0329	-.1541	
216.000	-.0260	-.1370	
234.000	-.0392	-.1020	
252.000	.0241	-.0718	
270.000	.0987	-.1414	
288.000	.0256	-.0344	
306.000	-.0118	-.1060	
324.000	-.0108	-.2102	

(R82701)

EXTERNAL TANK

MSFC 567(1A3ZF) TO S3/2 S3/2 03

PTA = 22.007

RL = 6.2778

PSA = 12.985

MACH (2) = .900 ALPHA (1) = -10.000
 SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.9836
PHI		
342.000	.0503	-.3473
360.000	.1172	-.6586

MACH (2) = .900 ALPHA (2) = -8.000 Q = 7.3909
 SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.4134	-.1172	-.1124	.0601	.2113	.3299	.3997	.3394	-.7396	-.2521	-.0690	.0055	.0397	.0583	.0478
18.000	.3845	-.1269	-.1479	.0759	.2063	.3068	.3404	.2505	-.5953	-.1637	-.0269	.0076	.0373	.0478	.0409
36.000	.3318	-.1673	-.1142	.0594	.2052	.2808	.2430	.1349	-.4232	-.1534	-.0067	.0309	.0404	.0409	.0410
54.000	.2572	-.2361	-.2345	.1668	.2409	.3139	.1989	.0355	-.0716	-.1317	-.0082	.0169	.0352	.0410	.0415
72.000	.1844	-.3017	-.2273	.1559	.3157	.4249	.2350	-.0343	-.0959	-.2479	-.1181	-.0239	.0137	.0336	.0415
90.000	.0917	-.3769	-.0464	.1075	.2431	.2383	.0423	.4331	-.3348	-.0983	.0038	.0358	.0358	.0337	.0337
108.000	.0376	-.4360	-.1067	-.0049	.0360	-.1320	.5599	-.6891	-.4596	-.3662	-.0846	.0176	.0323	.0292	.0234
126.000	-.0102	-.4783	-.1745	-.0627	-.0134	-.1230	.3156	-.5014	-.3986	-.3671	-.1324	-.0170	.0170	.0196	.0165
144.000	-.0412	-.5103	-.4306	-.0181	-.0055	-.0748	.2012	-.3403	-.2880	-.2868	-.1026	-.0134	.0075	.0054	.0033
162.000	-.0611	-.5226	-.4245	-.1035	.0228	-.0401	.1450	-.2457	.1885	-.2116	-.0821	.0028	.0165	.0286	.0039
180.000	-.0685	-.5281	-.4207	-.1206	.0256	-.0370	.1301	-.2164	.1754	-.1848	-.0764	-.0070	.0124	.0103	-.0143
198.000	-.0611	-.5256	-.4245	-.1035	.0228	-.0401	.1450	-.2457	.1885	-.2116	-.0821	.0028	.0165	.0086	.0039
216.000	-.0412	-.5103	-.4306	-.0181	-.0055	-.0748	.2012	-.3403	-.2880	-.2868	-.1026	-.0134	.0075	.0054	.0033
234.000	-.0102	-.4783	-.1745	-.0627	-.0134	-.1230	.3156	-.5014	-.3986	-.3671	-.1324	-.0170	.0170	.0196	.0165
252.000	.0376	-.4360	-.1067	-.0049	.0360	-.1320	.5599	-.6891	-.4596	-.3662	-.0846	.0176	.0323	.0292	.0234
270.000	.0917	-.3769	-.0464	.1075	.2431	.2383	.0423	.4331	-.3348	-.0983	.0038	.0358	.0358	.0337	.0337
288.000	.1844	-.3017	-.2273	.1559	.3157	.4249	.2350	-.0343	-.0929	-.2479	-.1181	-.0239	.0137	.0336	.0415
306.000	.2572	-.2361	-.2345	.1668	.2409	.3139	.1989	.0355	-.0716	-.1317	-.0082	.0169	.0352	.0410	.0409
324.000	.3318	-.1673	-.1142	.0594	.2052	.2808	.2430	.1348	-.4232	-.1534	-.0067	.0309	.0404	.0409	.0410
342.000	.3845	-.1269	-.1479	.0759	.2063	.3068	.3404	.2505	-.5953	-.1637	-.0269	.0076	.0373	.0478	.0409
360.000	.4134	-.1172	-.1124	.0601	.2113	.3299	.3997	.3394	-.7396	-.2521	-.0690	.0055	.0397	.0583	.0478
378.000									-.2063						

X/LT	.9116	.9836
PHI		
.000	.1300	-.6603
18.000	.0628	-.3333
36.000	.0069	-.1945
54.000	.0085	-.0951
72.000	.0509	-.0024
90.000	.1013	-.3909
108.000	.0449	-.0306
126.000	.0107	-.0815
144.000	-.0123	-.1267

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK (R82T01)

MACH (2) = .900 ALPHA (4) = -2.000

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP											
X/LT		.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI													
288.000	.1743	-.3247	-.0770	.1622	.2961	.3403	.0684	-.7395	-.1529	-.1165	-.1077	-.0429	.0130
306.000	.1843	-.3076	-.2081	.1442	.2196	.2422	.0842	-.2491	-.1248	-.1448	-.1159	-.0314	.0084
324.000	.2089	-.2902	-.2975	.1075	.1774	.2305	.1800	-.0423	-.1914	-.1819	-.1344	-.0340	.0181
342.000	.2282	-.2751	-.1945	.0293	.1716	.2609	.2963	.2054	-.2439	-.3753	-.1701	-.0943	-.0179
360.000	.2430	-.2812	-.2134	.0176	.1684	.2769	.3541	.3050	9.9990	-.8727	-.3108	-.1381	-.0063
378.000									-.2439				

X/LT .9116 .9836

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP											
X/LT		.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI													
.000	.1384	-.6086											
18.000	.0681	-.2674											
36.000	.0577	-.1460											
54.000	.0634	-.0532											
72.000	.1037	.0503											
90.000	.1455	-.0294											
108.000	.0845	.0117											
126.000	.0400	-.0506											
144.000	.0341	-.0870											
162.000	.0120	-.1013											
180.000	.0056	-.1096											
198.000	.0120	-.1013											
216.000	.0341	-.0870											
234.000	.0400	-.0506											
252.000	.0845	.0117											
270.000	.1455	-.0294											
288.000	.1037	.0503											
306.000	.0634	-.0532											
324.000	.0577	-.1460											
342.000	.0681	-.2674											
360.000	.1384	-.6086											

MACH (2) = .900 ALPHA (5) = .000 0 = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.965

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT		.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI													
.000	.1775	-.3334	-.2234	.0048	.1477	.2508	.3288	.2834	-.8406	-.3493	-.1457	-.0029	.0665
18.000	.1657	-.3202	-.1580	.0229	.1537	.2379	.2746	.1856	-.2611	-.2407	-.1931	-.1107	-.0160
36.000	.1593	-.3349	-.3171	.1022	.1609	.2033	.1509	.0295	-.2082	-.1479	-.1339	-.0502	-.0036
54.000	.1513	-.3352	-.2590	.1324	.2016	.2081	.2437	.3110	-.1226	-.1090	-.0406	-.0003	-.0003
72.000	.1579	-.3389	-.0538	.1312	.2690	.2957	.0227	-.8432	-.1623	-.0905	-.1057	-.0554	-.0245
90.000	.1359	-.3509	-.0160	.1506	.3225	.4066	.2999	-.7446	-.1180	-.0769	-.0443	-.0017	.0359

NSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK (R82T01)

MACH (2) = .900 ALPHA (6) = 2.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.1213	-.3901	-.2949	-.0231	.1546	.2492	.3230	.2830	-.2809	-.2341	-.3484	-.1422	.0112	.0895	.1214
18.000	.1059	-.3786	-.2128	-.0039	.1431	.2258	.2601	.1707	-.2100	-.1308	-.1321	-.0417	.0111	.0470	.1105
36.000	.1164	-.3797	-.3641	.0528	.1576	.1909	.1398	.0043	-.1533	-.1077	-.1119	-.0319	.0143	.0570	.0929
54.000	.1221	-.3733	-.3199	.0977	.1880	.1761	.0137	-.3443	-.1533	-.1077	-.0876	-.0372	.0137	.0569	.0970
72.000	.1439	-.3553	-.0559	.1205	.2507	.2496	-.0356	-.8432	-.1928	-.0741	-.0719	-.0449	.0008	.0424	.0819
90.000	.1394	-.3547	-.0216	.1603	.3323	.4147	.3250	-.7514	-.1928	-.0741	-.0719	-.0449	.0008	.0424	.0819
108.000	.1757	-.3384	-.0787	.1237	.2579	.2730	.0398	.9030	-.2213	-.0589	-.0365	-.0070	.0126	.0391	.0615
126.000	.1953	-.3180	-.2394	.0699	.1625	.1407	-.0543	.4875	-.1146	-.0392	-.0303	-.0074	.0065	.0222	.0430
144.000	.2106	-.3083	-.3727	.0007	.0956	.0771	-.0491	.2948	-.1052	-.0387	-.0251	-.0064	.0081	.0205	.0341
162.000	.2160	-.3100	-.4368	-.0506	.0574	.0392	-.0521	.1779	-.1415	-.0319	-.0241	-.0048	.0086	.0169	.0096
180.000	.2261	-.3000	-.4080	-.1800	.0584	.0329	-.0460	.1566	-.1613	-.0319	-.0241	-.0048	.0086	.0190	.0341
198.000	.2160	-.3100	-.4368	-.0506	.0574	.0392	-.0521	.1779	-.1415	-.0319	-.0241	-.0048	.0086	.0205	.0393
216.000	.2106	-.3083	-.3727	.0007	.0956	.0771	-.0491	.2948	-.1052	-.0387	-.0251	-.0064	.0081	.0222	.0430
234.000	.1953	-.3180	-.2394	.0699	.1625	.1407	-.0543	.4875	-.1146	-.0392	-.0303	-.0074	.0065	.0222	.0430
252.000	.1757	-.3384	-.0787	.1237	.2579	.2730	.0398	.9030	-.2213	-.0589	-.0365	-.0070	.0126	.0391	.0615
270.000	.1384	-.3547	-.0216	.1603	.3323	.4147	.3250	-.7514	-.1928	-.0741	-.0719	-.0449	.0008	.0424	.0819
288.000	.1439	-.3553	-.0559	.1205	.2507	.2496	-.0356	-.8432	-.1928	-.0741	-.0719	-.0449	.0008	.0424	.0819
306.000	.1221	-.3733	-.3199	.0977	.1880	.1761	.0137	-.3443	-.1533	-.1077	-.1119	-.0319	.0143	.0570	.0929
324.000	.1164	-.3797	-.3641	.0528	.1576	.1909	.1398	.0043	-.1533	-.1077	-.1119	-.0319	.0143	.0570	.0929
342.000	.1099	-.3786	-.2128	-.0039	.1431	.2258	.2601	.1707	-.2100	-.1308	-.1321	-.0417	.0111	.0470	.1105
360.000	.1213	-.3901	-.2949	-.0231	.1546	.2492	.3230	.2830	-.2809	-.2341	-.3484	-.1422	.0112	.0895	.1214
378.000															

X/LT .9116 .9836

PHI

.000	.1459	-.5689
18.000	.1108	-.2563
36.000	.0789	-.1312
54.000	.0903	-.0371
72.000	.1235	.0580
90.000	.1583	.0003
108.000	.1051	.0439
126.000	.0602	-.0189
144.000	.0445	-.0517
162.000	.0268	-.0756
180.000	.0325	-.0694
198.000	.0445	-.0517
216.000	.0502	-.0189
234.000	.1051	.0439
252.000	.1583	.0003
270.000	.1235	.0580
288.000	.0903	-.0371
306.000	.0789	-.1312
324.000	.1108	-.2563
342.000	.1459	-.5689

TABULATED SOURCE DATA, NSFC TNT 567 (1A32F)

DATE 05 SEP 75

(R827011)

NSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

MACH (2) = .900 ALPHA (8) = 2.000
 SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP
 X/LT .9116 .9836
 PH1
 342.000 .1108 -.2563
 360.000 .1428 -.5689
 MACH (2) = .900 ALPHA (7) = 5.000 0 = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3818	.4378	.5025	.5732	.6408	.7085	.7762	.8439
PH1	.0343	-.4643	-.2686	-.0621	.1379	.2265	.3000	.2766	-.2664	-.8118	-.3410	-.1234	.0294	.1053	.1377
18.000	.0275	-.4476	-.2337	-.0136	.1324	.2038	.2440	.1762	-.2864	-.1957	-.1630	-.0983	.0065	.0457	.1279
36.000	.0470	-.4358	-.3157	.0112	.1333	.1562	.1105	.0034	-.1966	-.1181	-.0392	.0177	.0574	.0574	.1060
54.000	.0658	-.4228	-.1771	.0366	.1345	.1121	-.0538	.2740	-.1600	-.1095	-.0887	-.0235	.0274	.0717	.1108
72.000	.1050	-.3980	-.0689	.0768	.1878	.1404	-.1787	-.5557	-.2079	-.1064	-.0792	-.0396	.0191	.0690	.1127
90.000	.1300	-.3619	-.0605	.1352	.3144	.3786	.2766	-.8809	-.1432	-.0423	-.0195	.0042	.0177	.0462	.0705
108.000	.1907	-.3283	-.0911	.1074	.2744	.3269	.1841	.0959	-.0652	-.0402	-.0220	-.0023	.0117	.0294	.0512
126.000	.2371	-.2844	-.3254	.0464	.1768	.1841	.0959	-.4112	-.0652	-.0382	-.0200	-.0039	.0100	.0235	.0429
144.000	.2779	-.2526	-.4328	.0027	.1086	.1066	-.0055	-.2012	-.0657	-.0254	-.0158	.0003	.0128	.0258	.0429
162.000	.3091	-.2232	-.4453	-.0543	.0814	.0747	-.0069	-.1194	-.0807	-.0254	-.0067	.0082	.0201	.0336	.0247
180.000	.3136	-.2234	-.4003	-.1352	.0650	.0526	-.0153	-.1194	-.0807	-.0254	-.0158	.0003	.0128	.0258	.0429
198.000	.3091	-.2232	-.4453	-.0543	.0714	.0747	-.0068	-.1194	-.0807	-.0254	-.0158	.0003	.0128	.0258	.0429
216.000	.2779	-.2526	-.4328	.0027	.1086	.1066	-.0055	-.2012	-.0657	-.0254	-.0158	.0003	.0128	.0258	.0429
234.000	.2371	-.2844	-.3254	.0464	.1768	.1841	.0959	-.4112	-.0652	-.0402	-.0220	-.0039	.0100	.0235	.0429
252.000	.1907	-.3283	-.0911	.1074	.2744	.3269	.1841	.0959	-.0652	-.0402	-.0220	-.0039	.0100	.0235	.0429
270.000	.1300	-.3618	-.0605	.1352	.3144	.3786	.2766	-.8809	-.1432	-.0423	-.0195	.0042	.0177	.0462	.0705
308.000	.1050	-.3980	-.0689	.0768	.1878	.1404	-.1787	-.5557	-.2079	-.1064	-.0792	-.0396	.0191	.0690	.1127
324.000	.0658	-.4228	-.1771	.0366	.1345	.1121	-.0538	.2740	-.1600	-.1095	-.0887	-.0235	.0274	.0717	.1108
342.000	.0470	-.4358	-.3157	.0112	.1333	.1562	.1105	.0034	-.1966	-.1181	-.0392	.0177	.0574	.0574	.1060
360.000	.0275	-.4476	-.2337	-.0136	.1324	.2038	.2440	.1762	-.2864	-.1957	-.1630	-.0983	.0065	.0457	.1279
378.000	.0343	-.4643	-.2686	-.0621	.1379	.2265	.3000	.2766	-.2664	-.8118	-.3410	-.1234	.0294	.1053	.1377

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.9836
PH1	.1513	-.5685
18.000	.1218	-.2556
36.000	.0972	-.1225
54.000	.1071	-.0272
72.000	.1348	.0539
90.000	.1625	-.0075
108.000	.1218	.0514
126.000	.0756	-.0007
144.000	.0589	-.0289

MSFC 567(1A3ZF) TO 53/2 53/2 03 EXTERNAL TANK (R82T01)

MACH (2) = .800 ALPHA (0) = 8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .2836

PHI	.000	.1882	-.5508
18.000	.1278	-.2424	
36.000	.1133	-.1036	
54.000	.1258	-.0124	
72.000	.1534	.0684	
90.000	.2001	.0053	
108.000	.1253	.0582	
126.000	.0857	.0133	
144.000	.0704	-.0131	
162.000	.0002	-.0194	
180.000	.0621	-.0230	
198.000	.0682	-.0184	
216.000	.0704	-.0131	
234.000	.0887	.0133	
252.000	.1253	.0582	
270.000	.2001	.0053	
288.000	.1534	.0684	
306.000	.1258	-.0124	
324.000	.1133	-.1036	
342.000	.1278	-.2424	
360.000	.1882	-.5508	

MACH (2) = .800 ALPHA (0) = 10.000 Q = 7.3509 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2283 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	-.1053	-.5654	-.2228	-.0538	.1162	.2038	.2836	.2683	-.0215	-.2683	-.0779	.0553	.1203	.1487
18.000	-.1107	-.5576	-.2092	.0044	.1003	.1731	.2318	.2836	.2003	-.2606	-.1684	-.0768	.0311	.1045	.1413
36.000	-.0501	-.5431	-.1717	-.0033	.0539	.0860	.0413	.0960	.0413	-.1948	-.1512	-.0884	-.0197	.0683	.1239
54.000	-.0533	-.5078	-.1593	-.0801	.0096	-.0265	-.1016	-.1651	-.1651	-.2454	-.1845	-.0051	.0399	.0856	.1270
72.000	.0133	-.4697	-.1233	-.0145	.0170	-.1165	-.4476	-.5417	-.3682	-.1822	-.0376	-.0066	-.0226	.0624	.1270
90.000	.0697	-.4047	-.0891	-.0728	.2175	.2201	.0592	-.5446	-.0811	-.1959	-.0691	-.0282	.0137	.0647	.0841
108.000	.1814	-.3107	-.1503	.0750	.2668	.3743	.2113	-.3374	-.0811	-.0580	-.0324	.0222	.0285	.0573	.0820
126.000	.2870	-.2274	-.3522	.0647	.1769	.2304	.0620	-.2064	-.0223	-.0422	-.0956	.0169	.0264	.0459	.0726
144.000	.3718	-.1574	-.2506	-.0187	.1069	.1425	.0624	-.0517	-.0223	-.0323	-.0097	.0122	.0211	.0363	.0609
162.000	.4231	-.1088	-.2544	-.0082	.0803	.1018	.0546	-.0047	-.0134	-.0176	.0020	.0244	.0338	.0458	.0661
180.000	.4459	-.0931	-.2272	-.0438	.0787	.0894	.0556	.0108	-.0035	-.0019	.0393	.0287	.0365	.0511	.0391
198.000	.4231	-.1088	-.2544	-.0082	.0803	.1018	.0546	-.0047	-.0134	-.0176	.0020	.0244	.0338	.0458	.0661
216.000	.3718	-.1574	-.2506	-.0187	.1069	.1425	.0624	-.0517	-.0223	-.0323	-.0097	.0122	.0211	.0363	.0609
234.000	.2870	-.2274	-.3522	.0647	.1769	.2304	.0620	-.2064	-.0223	-.0422	-.0956	.0169	.0264	.0459	.0726
252.000	.1814	-.3107	-.1503	.0750	.2668	.3743	.2113	-.3374	-.0811	-.0580	-.0324	.0222	.0285	.0573	.0820
270.000	.0697	-.4047	-.0891	.0728	.2175	.2201	.0592	-.5446	-.0811	-.1959	-.0691	-.0282	.0137	.0647	.0841

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK (R827011)

MACH (2) = .800 ALPHA (9) = 10.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4376	.5055	.5732	.6400	.7085	.7762	.8439
PHI															
288.000	.0133	-.4607	-.1233	-.0145	.0170	-.1185	-.4476	-.5417	-.3882	-.1822	-.0376	-.0066	.0326	.0824	.1270
306.000	-.0533	-.5078	-.1593	-.0601	.0096	-.0265	-.1016	-.1651	-.2434	-.1845	-.0523	-.0051	.0399	.0856	.1270
324.000	-.0901	-.5431	-.1717	-.0033	.0539	.0860	.0860	.0413	-.1948	-.1512	-.0864	-.0197	.0274	.0683	.1239
342.000	-.1107	-.5576	-.2082	.0044	.1003	.1731	.2318	.2003	-.2606	-.1684	-.1495	-.0768	.0311	.1045	.1413
360.000	-.1083	-.5634	-.2228	-.0538	.1162	.2038	.2836	.2883	9.9990	-.8215	-.2883	-.0779	.0953	.1293	.1487
378.000									-.2606						

X/LT .9116 .9836

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4376	.5055	.5732	.6400	.7085	.7762	.8439
PHI															
.000	.1827	-.5358													
18.000	.1307	-.2420													
36.000	.1097	-.1078													
54.000	.1207	-.0176													
72.000	.1480	.0583													
90.000	.2091	-.0019													
108.000	.1344	.0799													
126.000	.0973	.0259													
144.000	.0756	-.0081													
162.000	.0698	-.0120													
180.000	.0678	-.0156													
198.000	.0698	-.0120													
216.000	.0756	-.0061													
234.000	.0973	.0259													
252.000	.1344	.0799													
270.000	.2091	-.0019													
288.000	.1480	.0583													
306.000	.1207	-.0176													
324.000	.1097	-.1078													
342.000	.1307	-.2420													
360.000	.1827	-.5358													

MACH (3) = 1.050 ALPHA (1) = -10.000 0 = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4376	.5055	.5732	.6400	.7085	.7762	.8439
PHI															
.000	.6130	.1054	-.0902	.2295	.3949	.5138	.5791	.5195	.0366	-.4318	-.1012	-.2300	-.0013	.1156	.1619
18.000	.5770	.0874	-.1384	.2615	.3869	.4900	.5225	.4382	.0842	-.2685	-.1659	-.2516	.0308	.1163	.1559
36.000	.5172	.0444	-.1951	.2151	.3831	.4855	.4402	.3437	.0842	-.2685	-.1659	-.2516	.0308	.1220	.1578
54.000	.4382	-.0261	-.1841	.2481	.4171	.5031	.4185	.2742	.1501	-.1878	-.2079	-.2299	.0440	.282	.1594
72.000	.3511	-.1258	-.1956	.1943	.4826	.6055	.4703	.2070	.1293	-.1337	-.1831	-.2022	.0444	.314	.1598
90.000	.2538	-.1857	-.0796	.1284	.3689	.3379	.1765	-.3832	-.3489	-.0759	-.2225	-.0013	.1156	.1110	.1275

TABULATED SOURCE DATA, NSFC TMT 567 (11/38F)

(RBL2701)

DATE 05 SEP 75

NSFC 087(1A38F) TO 83/2 53/2 03 EXTERNAL TANK

MACH (3) = 1.050 ALPHA (1) = -10.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7095	.7762	.8439
PHI															
106.000	.1805	-.2472	-.1488	.0408	.1232	-.0709	-.5306	-.6350	-.5324	-.3204	-.0984	-.0688	.0138	.0858	.1018
126.000	.1402	-.2908	-.2679	-.0751	.0959	-.0040	-.1988	-.3440	-.4489	-.3591	-.1768	-.0590	.0193	.0825	.1013
144.000	.1069	-.3199	-.3262	-.1697	.1147	.0849	-.0260	-.1534	-.2300	-.3332	-.1314	-.0613	-.0034	.0632	.0986
162.000	.0884	-.3288	-.3032	-.1871	.0760	.1525	.0701	-.0398	-.1887	-.3211	-.1128	-.0402	.0165	.0650	.0939
180.000	.0634	-.3328	-.2728	-.1748	.0444	.1839	.1053	.0009	-.1785	-.3062	-.1125	-.0365	.0151	.0733	.0811
198.000	.0884	-.3288	-.3032	-.1871	.0760	.1525	.0701	-.0398	-.1887	-.3211	-.1128	-.0402	.0165	.0650	.0939
216.000	.1069	-.3199	-.3262	-.1697	.1147	.0849	-.0260	-.1534	-.2300	-.3332	-.1314	-.0613	-.0034	.0632	.0986
234.000	.1402	-.2908	-.2679	-.0751	.0959	-.0040	-.1988	-.3440	-.4489	-.3591	-.1768	-.0590	.0193	.0825	.1013
252.000	.1805	-.2472	-.1488	.0408	.1232	-.0709	-.5306	-.6350	-.5324	-.3204	-.0984	-.0688	.0138	.0858	.1018
270.000	.2538	-.1857	-.0786	.1284	.3699	.3378	.1765	-.3832	-.3992	-.3992	-.1810	-.1053	.0418	.1110	.1275
288.000	.3511	-.1058	-.1956	.1543	.4826	.8095	.4703	.2040	.1293	-.1337	-.1831	-.2032	.0444	.314	.1598
306.000	.4382	-.0261	-.1841	.2481	.4171	.5037	.4185	.2742	.1501	-.1878	-.2078	-.2298	.0440	.1282	.1578
324.000	.5172	.0444	-.1951	.2151	.3831	.4635	.4403	.3437	.0842	-.2695	-.1668	-.2516	.0308	.1220	.1578
342.000	.5770	.0874	-.1384	.2615	.3669	.4900	.5225	.4382	.0366	-.4318	-.1012	-.2300	.0124	.1163	.1559
360.000	.6130	.1094	-.0902	.2295	.3949	.5136	.5791	.5195	9.9990	-.5488	-.0759	-.2225	-.0013	.1156	.1619
378.000									.0366						

X/LT .9116 .9836

PHI															
.000	.2665	-.6020													
18.000	.2018	-.3748													
36.000	.1401	-.1528													
54.000	.1342	-.0156													
72.000	.1695	-.0728													
90.000	.2174	-.0559													
108.000	.1344	-.0286													
126.000	.1105	.0413													
144.000	.1807	-.0183													
162.000	.0907	-.0054													
180.000	.0870	-.0173													
198.000	.0907	-.0054													
216.000	.1007	-.0183													
234.000	.1105	.0413													
252.000	.1344	-.0286													
270.000	.2174	-.0559													
288.000	.1695	-.0728													
306.000	.1342	-.0156													
324.000	.1401	-.1528													
342.000	.2018	-.3748													
360.000	.2665	-.6020													

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TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK (R82701)

MACH (3) = 1.050 ALPHA (2) = -0.000 0 = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT	PHI	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7065	.7762	.8439
.000	.5573	.0489	-.1690	.1523	.3206	.4900	.5614	.5033	.0242	-.4445	-.1025	-.2130	-.0232	.1086	.1686	.1686
18.000	.5273	.0356	-.2154	.1916	.3759	.4706	.5058	.4212	.0242	-.4445	-.1191	-.2194	-.0122	.1091	.1636	.1636
36.000	.4850	.0063	-.2347	.1761	.3797	.4515	.4232	.3198	.0727	-.2791	-.1902	-.2396	-.0008	.1161	.1614	.1614
54.000	.4171	-.0549	-.1818	.0683	.4208	.4808	.3809	.2104	.1265	-.2107	-.2196	-.2169	.0097	.1189	.1566	.1566
72.000	.3592	-.1100	-.1860	.1329	.4826	.5803	.4285	.1388	.1022	-.1663	-.1858	-.1817	.0087	.1187	.1572	.1572
90.000	.2707	-.1772	-.2098	.1658	.4082	.3949	.2236	-.4553	-.3614	-.3614	-.1462	.0261	.0110	.0999	.1356	.1356
108.000	.2395	-.2239	-.2097	.0490	.2111	.0581	-.3187	-.5871	-.5129	-.3214	-.0833	-.0512	-.0027	.0788	.1127	.1127
126.000	.1771	-.2682	-.2952	-.0388	.1560	.0725	-.1214	-.3489	-.3333	-.3319	-.1425	.0554	-.0081	.0656	.1042	.1042
144.000	.1539	-.2954	-.3454	-.1723	.1337	.1388	.0105	-.1580	-.1897	-.2946	-.1090	-.0596	-.0133	.0540	.0961	.0961
162.000	.1341	-.2994	-.3410	-.1954	.1052	.1771	.0828	-.0425	-.1859	-.2843	-.0951	-.0357	-.0054	.0527	.0938	.0938
180.000	.1341	-.2994	-.3410	-.1854	.0801	.1850	.1094	-.0055	-.1878	-.2694	-.0998	-.0357	-.0054	.0527	.0958	.0958
198.000	.1341	-.2994	-.3410	-.1904	.1052	.1771	.0828	-.0425	-.1859	-.2843	-.0951	-.0357	-.0054	.0527	.0951	.0951
216.000	.1539	-.2954	-.3454	-.1723	.1337	.1388	.0105	-.1580	-.1897	-.2946	-.1090	-.0596	-.0133	.0540	.0961	.0961
234.000	.1771	-.2682	-.2952	-.0388	.1560	.0725	-.1214	-.3489	-.3333	-.3319	-.1425	.0554	-.0081	.0656	.1042	.1042
252.000	.2395	-.2239	-.2097	.0490	.2111	.0581	-.3187	-.5871	-.5129	-.3214	-.0833	-.0512	-.0027	.0788	.1127	.1127
270.000	.2737	-.1772	-.2089	.1658	.4082	.3949	.2235	-.4553	-.3614	-.3614	-.1462	.0261	.0110	.0999	.1356	.1356
288.000	.3552	-.1100	-.1850	.1329	.4826	.5803	.4285	.1388	.1022	-.1663	-.1858	-.1817	.0087	.1187	.1572	.1572
306.000	.4171	-.0549	-.1818	.0683	.4208	.4808	.3809	.2104	.1265	-.2107	-.2196	-.2169	.0097	.1189	.1566	.1566
324.000	.4850	.0063	-.2347	.1761	.3797	.4515	.4232	.3198	.0727	-.2791	-.1902	-.2396	-.0008	.1161	.1614	.1614
342.000	.5273	.0356	-.2154	.1916	.3759	.4706	.5058	.4212	.0242	-.4445	-.1191	-.2194	-.0122	.1091	.1636	.1636
360.000	.5573	.0489	-.1690	.1523	.3206	.4900	.5614	.5033	.0242	-.4445	-.1025	-.2130	-.0232	.1086	.1686	.1686
378.000	.9116	.9836														

X/LT	PHI
.000	.2717
18.000	.2126
36.000	.1538
54.000	.1451
72.000	.1750
90.000	.2172
108.000	.1530
126.000	.1239
144.000	.1099
162.000	.0971
180.000	.0945
198.000	.0971
216.000	.1099
234.000	.1239
252.000	.1530
270.000	.2172
288.000	.2750
306.000	.3451
324.000	.4151
342.000	.4851
360.000	.5538

TABULATED SOURCE DATA, MSFC TWT 367 (1A32F)

(R82101)

EXTERNAL TANK

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03

MACH (3) = 1.050 ALPHA (3) = -5.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .9116 .9836

PHI	
162.000	.1133 .0172
180.000	.1123 .0108
158.000	.1133 .0172
216.000	.1189 .0315
234.000	.1428 .0690
252.000	.1576 .1101
270.000	.2170 .0851
288.000	.1957 .1516
306.000	.1736 .0825
324.000	.1791 -.0567
342.000	.2278 -.2851
360.000	.2826 -.6250

MACH (3) = 1.050 ALPHA (4) = -2.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
18.000	.3892	-.1103	-.2829	-.0539	.3039	.4315	.4952	.4507	-.5774	-.1566	-.1628	-.0305	.1178	.2028	
36.000	.3691	-.1071	-.3535	.0125	.3181	.4149	.4452	.3590	-.0277	-.4701	-.1072	-.1535	-.0154	.1180	
54.000	.3614	-.1135	-.2579	-.0695	.3453	.3976	.3517	.2215	.0120	-.2941	-.1200	-.1678	.0038	.1272	
72.000	.3455	-.1284	-.2464	-.0150	.3845	.4130	.2789	-.0246	.0303	-.2037	-.1232	-.1682	.0030	.1196	
90.000	.3371	-.1455	-.2558	.0654	.4612	.5035	.2883	-.5063	.0369	-.1462	-.0905	-.1450	-.0194	.1061	
108.000	.2822	-.1612	-.2161	.1048	.4894	.5526	.4534	.7210	-.1856	-.0447	-.0820	-.0466	.0815	.1647	
126.000	.2951	-.1715	-.2836	.0410	.3496	.3382	.0851	-.7782	-.3364	-.2124	-.0309	-.0259	-.0181	.0760	
144.000	.2862	-.1818	-.3796	-.0609	.2623	.2499	.0600	-.3359	-.1644	-.1588	-.0305	-.0195	-.0186	.0607	
162.000	.2772	-.1931	-.4026	-.1811	.2212	.2161	.0930	-.0948	-.2183	-.1862	-.0071	-.0016	-.0103	.0571	
180.000	.2747	-.1969	-.3593	-.2061	.1505	.2041	.1193	.0006	-.2708	-.1937	-.0021	.0047	-.0062	.0556	
198.000	.2746	-.1973	-.3242	-.2788	.0816	.1914	.1284	.0218	-.2281	-.1937	-.0012	.0061	-.0062	.0561	
216.000	.2772	-.1931	-.4026	-.1811	.2212	.2161	.0930	-.0946	-.2183	-.1662	-.0071	-.0016	-.0103	.0571	
234.000	.2862	-.1818	-.3796	-.0609	.2623	.2499	.0600	-.3359	-.1644	-.1588	-.0305	-.0195	-.0186	.0607	
252.000	.2991	-.1715	-.2836	.0410	.3496	.3382	.0851	.7210	-.3364	-.2124	-.0309	-.0259	-.0181	.0760	
270.000	.3022	-.1612	-.2161	.1048	.4894	.5526	.4534	.7210	-.1856	-.0447	-.0820	-.0466	.0815	.1647	
288.000	.3371	-.1455	-.2558	.0654	.4612	.5035	.2888	-.5063	.0369	-.1462	-.0905	-.1460	-.0194	.1061	
306.000	.3455	-.1284	-.2464	-.0150	.3845	.4130	.2789	-.0246	.0303	-.2037	-.1232	-.1682	.0030	.1272	
324.000	.3614	-.1135	-.2579	-.0695	.3453	.3976	.3517	.2215	.0120	-.2941	-.1200	-.1678	.0039	.1272	
342.000	.3691	-.1071	-.3535	.0125	.3181	.4149	.4452	.3590	-.0277	-.4701	-.1072	-.1535	-.0154	.1180	
360.000	.3892	-.1103	-.2829	-.0539	.3039	.4315	.4952	.4507	-.5774	-.1566	-.1628	-.0305	.1178	.2028	

3 15 000

TABLATED SOURCE DATA, MSFC TNT 987 (1A32F)

DATE 05 SEP 75

(R82T01)

MSFC 987(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

MACH (3) = 1.050 ALPHA (4) = -2.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	PHI
.9116	.9836
.2909	-.5902
.2417	-.2269
.2027	-.0295
.1972	.0888
.2208	-.1809
.2441	.1123
.1972	.1370
.1838	.0928
.1481	.0654
.1400	.0515
.1360	.0447
.1400	.0515
.1481	.0654
.1658	.0928
.1972	.1370
.2441	.1123
.2208	.1809
.1972	.0888
.2027	-.0295
.2417	-.2269
.2909	-.5902

MACH (3) = 1.050 ALPHA (5) = .000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	PHI	PTA	RL	PSA
.0757	.1950	.2203	.2347	.2707
.3325	-.1614	-.2768	-.1030	.2576
.3200	-.1535	-.3336	-.0240	.2685
.3149	-.1580	-.2690	-.0586	.3029
.3140	-.1592	-.2415	-.0566	.3536
.3189	-.1601	-.2948	.0716	.4237
.3095	-.1487	-.2429	.0946	.4957
.3222	-.1488	-.3158	.0315	.3886
.3292	-.1471	-.4289	-.0470	.2986
.3312	-.1464	-.4581	-.1940	.2292
.3280	-.1512	-.4550	-.2923	.1841
.3392	-.1490	-.3138	-.3047	.1247
.3280	-.1512	-.4550	-.2923	.1841
.3312	-.1464	-.4581	-.1940	.2292
.3292	-.1471	-.4289	-.0470	.2986
.3222	-.1488	-.3158	.0315	.3886
.3095	-.1487	-.2429	.0946	.4957
.3325	-.1614	-.2768	-.1030	.2576
.3200	-.1535	-.3336	-.0240	.2685
.3149	-.1580	-.2690	-.0586	.3029
.3140	-.1592	-.2415	-.0566	.3536
.3189	-.1601	-.2948	.0716	.4237
.3095	-.1487	-.2429	.0946	.4957
.3222	-.1488	-.3158	.0315	.3886
.3292	-.1471	-.4289	-.0470	.2986
.3312	-.1464	-.4581	-.1940	.2292
.3280	-.1512	-.4550	-.2923	.1841
.3392	-.1490	-.3138	-.3047	.1247
.3280	-.1512	-.4550	-.2923	.1841
.3312	-.1464	-.4581	-.1940	.2292
.3292	-.1471	-.4289	-.0470	.2986
.3222	-.1488	-.3158	.0315	.3886
.3095	-.1487	-.2429	.0946	.4957
.6182	-.1611	-.1688	-.0352	.1201
.4732	-.0834	-.1457	-.0219	.1199
.2994	-.0864	-.1491	-.0040	.1249
.1900	-.0773	-.1405	.0008	.1263
-.0502	-.1100	-.0526	-.0206	.1107
-.0773	-.0256	-.0591	-.0329	.0866
-.1085	-.0114	-.0096	-.0109	.0698
-.1727	-.0041	.0004	-.0105	.0502
-.2572	-.0169	.0155	-.0045	.0443
-.2428	.0206	.0201	-.0018	.0398
-.1940	.0232	.0205	-.0014	.0420
-.1654	.0266	.0201	-.0018	.0398
-.2572	.0169	.0155	-.0045	.0443
-.1727	-.0041	.0004	-.0105	.0502
-.2365	-.0114	-.0096	-.0109	.0698
-.0773	-.0256	-.0591	-.0329	.0866
.4378	.5055	.6408	.7065	.7762
.4277	.4672	.4047	.4672	.4277
.4155	.3843	.3843	.4155	.3843
.3195	.3656	.3656	.3195	.3656
.2331	.3756	.3756	.2331	.3756
.2233	.4587	.4587	.2233	.4587
.4884	.5721	.5721	.4884	.5721
.1753	.4005	.4005	.1753	.4005
.1132	.2945	.2945	.1132	.2945
.0535	.2562	.2562	.0535	.2562
.1420	.2272	.2272	.1420	.2272
.1513	.2203	.2203	.1513	.2203
.0260	.2872	.2872	.0260	.2872
-.2428	.1654	.1654	-.2428	.1654
-.1940	.1247	.1247	-.1940	.1247
-.2572	.1841	.1841	-.2572	.1841
-.1190	.2562	.2562	-.1190	.2562
-.0841	.2945	.2945	-.0841	.2945
-.0096	.4005	.4005	-.0096	.4005
-.0114	.4957	.4957	-.0114	.4957
-.0004	.3886	.3886	-.0004	.3886
-.0105	.4277	.4277	-.0105	.4277
-.0045	.4672	.4672	-.0045	.4672
-.0018	.4957	.4957	-.0018	.4957
-.0014	.5055	.5055	-.0014	.5055
-.0018	.5002	.5002	-.0018	.5002
-.0045	.5043	.5043	-.0045	.5043
-.0105	.5002	.5002	-.0105	.5002
-.0109	.5055	.5055	-.0109	.5055
-.0329	.5086	.5086	-.0329	.5086
-.0105	.5002	.5002	-.0105	.5002
-.0096	.4957	.4957	-.0096	.4957
-.0329	.5086	.5086	-.0329	.5086

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TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) 19 S3/2 53/2 03 EXTERNAL TANK (R82T01)

MACH (3) = 1.050 ALPHA (5) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.3189	-.1601	-.2948	.0716	.4237	.4587	.2233	-.5950	-.0502	-.1100	-.0626	-.1204	-.0206	.1107	.1931
299.000	.3140	-.1592	-.2415	-.0566	.3536	.3756	.2331	-.0815	.0063	-.1900	-.0773	-.1405	.0008	.1263	.1945
305.000	.3149	-.1580	-.2490	-.0986	.3029	.3656	.3195	.1864	-.0323	-.2994	-.0864	-.1491	-.0040	.1249	.2018
324.000	.3200	-.1535	-.3336	-.0240	.2685	.3843	.4155	.3329	-.0639	-.4732	-.0834	-.1457	-.0219	.1199	.2048
342.000	.3325	-.1614	-.2768	-.1030	.2576	.4047	.4872	.4277	9.9990	-.6182	-.1611	-.1688	-.0352	.1201	.2140
378.000									-.0639						

X/LT .9116 .9836

PHI	.000	.2924	-.5553
18.000	.2508	-.1884	
36.000	.2119	-.0045	
54.000	.2201	.1107	
72.000	.2403	.2014	
90.000	.2566	.1338	
108.000	.2115	.1530	
126.000	.1769	.1097	
144.000	.1586	.0800	
162.000	.1498	.0550	
180.000	.1476	.0584	
198.000	.1498	.0650	
216.000	.996	.0800	
234.000	.1769	.1097	
252.000	.2115	.1530	
270.000	.2556	.1338	
288.000	.2463	.2014	
306.000	.2201	.1107	
324.000	.2119	-.0045	
342.000	.2508	-.1884	
360.000	.2924	-.5553	

MACH (3) = 1.050 ALPHA (6) = 2.000 Q = 8.4371 PTA = 3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.2685	-.1948	-.2413	-.1104	.1585	.3569	.4385	.4258	-.6052	-.1579	-.1593	-.2293	.1226	.2207	
18.000	.2786	-.1835	-.2961	-.0659	.2040	.3587	.4008	.3275	-.0924	-.4228	-.0560	-.1323	-.2211	.1162	.2101
36.000	.2658	-.1825	-.2623	-.1295	.2519	.3466	.3095	.1769	-.0540	-.2374	-.0559	-.1249	-.0068	.1212	.2027
54.000	.2897	-.1776	-.2971	-.1249	.3080	.3444	.3551	.1919	-.0338	-.1304	-.0544	-.1232	-.0022	.1255	.1973
72.000	.3100	-.1605	-.3105	-.0370	.3718	.4166	.3859	-.6348	-.1404	-.0526	-.0316	-.0597	-.0157	.1073	.1949
90.000	.3077	-.1565	-.3143	.0273	.4802	.5671	.4834	-.6157	-.0330	-.0054	-.0408	-.0289	.0828	.1813	

PSA = 10.982

DATE 05 SEP 75

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

(182T011)

PSA = 10.952

MACH (3) = 1.050 ALPHA (7) = 5.000 Q = 8.4371 PTA = 22.007 RL = 6.5711

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK	MSFC 567 (1A32F) T9 S3/2 53/2 03	EXTERNAL TANK	PTA	RL	PSA										
X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.2105	-.2037	-.2124	.0636	.2595	.3662	.3941	-.1204	-.5685	-.1294	-.1044	.0114	.1506	.2324
18.000	.2021	-.2520	-.2937	-.1044	.1164	.2833	.3424	.2938	-.3180	-.3180	-.0434	-.0791	.0101	.1365	.2228
36.000	.2197	-.2380	-.3094	-.1625	.1666	.2792	.2594	.1377	-.0691	-.1497	-.0420	-.0709	.0216	.1358	.2131
54.000	.2353	-.2259	-.3735	-.1195	.1949	.2623	.1128	-.2071	-.0705	-.0751	-.0255	-.0572	.0189	.1354	.2101
72.000	.2753	-.1974	-.4219	-.0265	.3056	.3005	.0124	-.6422	-.1859	-.0521	-.0410	-.0083	.1241	.2111	.2111
90.000	.2940	-.1701	-.4519	.0123	.4449	.5200	.4253	-.6238	-.0992	-.0992	-.0240	-.0251	-.0168	.0894	.1948
108.000	.3517	-.1383	-.4570	-.0219	.3668	.4975	.3242	-.5551	-.0851	-.0650	-.0159	.0032	.0032	.0618	.1588
126.000	.3940	-.0980	-.4306	-.2811	.2827	.3697	.2112	-.1506	-.0297	-.0806	.0133	.0256	.0096	.0416	.1423
144.000	.4297	-.0691	-.4185	-.3557	.2463	.3036	.1967	.0225	-.1062	.1085	.0225	.0394	.0206	.0353	.1398
162.000	.4645	-.0384	-.3964	-.3557	.2090	.2680	.1884	.0814	-.1591	-.1028	.0262	.0445	.0234	.0349	.1358
180.000	.4523	-.0498	-.3964	-.3557	.1617	.2552	.1878	.0944	-.1222	-.0893	.0262	.0445	.0234	.0349	.1358
198.000	.4297	-.0691	-.4185	-.3557	.2463	.3036	.1967	.0225	-.1062	.1085	.0225	.0394	.0206	.0353	.1398
216.000	.3940	-.0980	-.4306	-.2811	.2827	.3697	.2112	-.1506	-.0297	-.0806	.0133	.0256	.0096	.0416	.1423
234.000	.3517	-.1383	-.4570	-.0219	.3668	.4975	.3242	-.5551	-.0851	-.0650	-.0159	.0032	.0032	.0618	.1588
270.000	.2940	-.1701	-.4519	.0123	.4449	.5200	.4253	-.6238	-.0992	-.0992	-.0240	-.0251	-.0168	.0894	.1948
288.000	.2753	-.1974	-.4219	-.0265	.3056	.3005	.0124	-.6422	-.1859	-.0521	-.0410	.0083	.1241	.2111	.2111
306.000	.2353	-.2259	-.3735	-.1195	.1949	.2623	.1128	-.2071	-.0705	-.0751	-.0255	-.0572	.0189	.1354	.2101
324.000	.2197	-.2380	-.3094	-.1625	.1666	.2792	.2554	.1377	-.0691	-.1497	-.0420	-.0709	.0216	.1358	.2131
342.000	.2021	-.2520	-.2937	-.1044	.1164	.2833	.3424	.2938	-.3180	-.3180	-.0434	-.0791	.0101	.1365	.2228
360.000	.2105	-.2037	-.2124	.0636	.2595	.3662	.3941	.2938	-.1204	-.5685	-.1294	-.1044	.0114	.1506	.2324
378.000															

X/LT .9116 .9836

PHI	PHI
.000	.2817
18.000	.2499
36.000	.2244
54.000	.2326
72.000	.2537
90.000	.2897
108.000	.2334
126.000	.1945
144.000	.1820
162.000	.1716
180.000	.1705
198.000	.1716
216.000	.1820
234.000	.1945
252.000	.2334
270.000	.2897
288.000	.2537
306.000	.2326
324.000	.2244

(182101)

EXTERNAL TANK

MSFC 567(1A3ZF) T9 S3/2 S3/2 03

MACH (3) = 1.050 ALPHA (7) = 5.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .2489 -.1574
350.000 .2817 -.4929

MACH (3) = 1.050 ALPHA (8) = 8.000 0 = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.952

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.025	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391
18.000	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
36.000	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
54.000	.1811	-.2649	-.3967	-.1020	.1051	.1688	.0269	-.1222	-.0476	-.1295	.0009	.0032	.0618	.1598	.2312
72.000	.2317	-.2306	-.4430	-.0779	.2142	.1468	-.1843	-.4568	-.3091	-.1582	.0114	.0183	.0509	.1552	.2317
90.000	.2743	-.1793	-.4076	-.0846	.3965	.4358	.3169	-.4986	-.1620	.0059	.0279	.0513	.1347	.2139	.2817
108.000	.3597	-.1208	-.4175	-.1845	.4101	.5282	.3831	-.4188	-.0087	-.0567	.0141	.0443	.0475	.1061	.1721
126.000	.4325	-.0609	-.4153	-.3173	.3196	.3998	.2569	-.0860	.0467	-.0663	.0206	.0578	.0509	.0954	.1605
144.000	.4920	-.0095	-.3775	-.3281	.2504	.3181	.2307	.0700	.0206	-.0695	.0238	.0673	.0600	.0976	.1609
162.000	.5296	.0256	-.3486	-.3105	.2488	.2840	.2159	.1196	-.0421	-.0499	.0237	.0736	.0631	.1002	.1569
180.000	.5470	.0380	-.3335	-.2873	.1933	.2753	.2148	.1310	-.0536	-.0316	.0229	.0728	.0546	.1049	.1338
198.000	.5296	.0256	-.3486	-.3105	.2488	.2840	.2159	.1196	-.0421	-.0499	.0237	.0736	.0631	.1002	.1569
216.000	.4920	-.0095	-.3775	-.3281	.2504	.3181	.2307	.0700	.0206	-.0695	.0238	.0673	.0600	.0976	.1609
234.000	.4323	-.0509	-.4153	-.3173	.3196	.3998	.2569	-.0860	.0467	-.0663	.0206	.0578	.0509	.0954	.1605
252.000	.3597	-.1208	-.4175	-.1845	.4101	.5282	.3831	-.4188	-.0087	-.0567	.0141	.0443	.0475	.1061	.1721
270.000	.2743	-.1793	-.4076	-.0846	.3965	.4358	.3169	-.4986	-.1620	.0059	.0279	.0513	.1347	.2139	.2817
288.000	.2317	-.2306	-.4430	-.0779	.2142	.1468	-.1843	-.4568	-.3091	-.1582	.0114	.0183	.0509	.1552	.2317
306.000	.1811	-.2649	-.3967	-.1020	.1051	.1688	.0269	-.1222	-.0476	-.1295	.0009	.0032	.0618	.1598	.2312
324.000	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
342.000	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
360.000	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
378.000	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335	-.3046	-.28.3	-.1107	.0685	.2291	.3009	.2817	.1024	-.2191	-.0274	-.0210	.0582	.1644	.2327
	.1274	-.3.72	-.1909	-.1236	.0109	.1959	.3135	.3648	-.5057	-.1066	-.0417	.0692	.1789	.2391	.2817
	.1527	-.2883	-.3180	-.1794	.1074	.2154	.2154	.1491	-.0352	-.1460	-.0278	-.0095	.0645	.1552	.2275
	.1335</														

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

(R82T01)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

MACH (3) = 1.050 ALPHA (8) = 8.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.9116	.9835
PHI		
162.000	.1894	.1377
180.000	.1869	.1342
198.000	.1854	.1377
216.000	.2013	.1499
234.000	.2086	.1651
252.000	.2421	.2155
270.000	.3005	.1575
288.000	.2669	.1960
306.000	.2459	.1181
324.000	.2363	.0325
342.000	.2467	-.1159
360.000	.2692	-.3860

MACH (3) = 1.050 ALPHA (9) = 10.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
18.000	.0857	-.3528	-.1598	-.1227	-.0205	.1898	.3121	.3552	-.0944	-.4779	-.0944	.0042	.1142	.2010	.2470
36.000	.0843	-.3418	-.3161	-.1466	.0697	.2136	.2897	.2745	-.0980	-.1511	-.0154	.0166	.0950	.1852	.2401
54.000	.1046	-.3279	-.3325	-.1889	.0807	.1872	.2028	.1500	-.0257	-.1205	-.0109	.0362	.0985	.1750	.2360
72.000	.1375	-.2987	-.3941	-.1113	.0799	.0949	.0032	-.1278	-.0948	-.1356	.0189	.0456	.0965	.1801	.2394
90.000	.1974	-.2647	-.4514	-.1288	.1437	.0230	-.3501	-.4560	-.3220	-.1499	.0267	.0580	.0961	.1755	.2389
108.000	.2508	-.2039	-.4675	-.0475	.3797	.3636	.2320	-.4446	-.1448	.0249	.0648	.0648	.0873	.1552	.2222
126.000	.3490	-.1233	-.4117	-.1816	.3926	.5331	.4000	-.3240	.0184	-.0297	.0446	.0849	.0913	.1386	.1927
144.000	.4465	-.0440	-.3834	-.3058	.3432	.4084	.2784	-.0619	.0818	-.0371	.0496	.0950	.0958	.1303	.1825
162.000	.5237	.0202	-.3530	-.3090	.2705	.3228	.2449	.0885	.0724	-.0375	.0468	.1019	.1024	.1285	.1781
180.000	.5711	.0665	-.3169	-.2742	.2753	.2863	.2299	.1353	.0629	-.0155	.0464	.1134	.1143	.1359	.1790
198.000	.5909	.0758	-.2976	-.2499	.2344	.2799	.2280	.1477	.0592	-.0155	.0463	.1170	.1184	.1431	.1874
216.000	.5711	.0665	-.3169	-.2742	.2753	.2863	.2299	.1353	.0629	-.0155	.0464	.1134	.1143	.1359	.1790
234.000	.5237	.0202	-.3530	-.3090	.2705	.3228	.2449	.0885	.0724	-.0375	.0468	.1019	.1024	.1285	.1781
252.000	.4465	-.0440	-.3834	-.3058	.3432	.4084	.2784	-.0619	.0818	-.0371	.0496	.0950	.0958	.1303	.1825
270.000	.3490	-.1233	-.4117	-.1816	.3926	.5331	.4000	-.3240	.0184	-.0297	.0446	.0849	.0913	.1386	.1927
288.000	.2508	-.2039	-.4675	-.0475	.3797	.3636	.2320	-.4446	-.1448	.0249	.0648	.0648	.0873	.1552	.2222
306.000	.1974	-.2647	-.4514	-.1288	.1437	.0230	-.3501	-.4560	-.3220	-.1499	.0267	.0580	.0961	.1755	.2389
324.000	.1375	-.2987	-.3941	-.1113	.0799	.0949	.0032	-.1278	-.0948	-.1356	.0189	.0456	.0965	.1801	.2394
342.000	.1046	-.3279	-.3325	-.1889	.0807	.1872	.2028	.1500	-.0257	-.1205	-.0109	.0362	.0985	.1750	.2360
360.000	.0843	-.3418	-.3161	-.1466	.0697	.2136	.2897	.2745	-.0980	-.1511	-.0154	.0166	.0950	.1852	.2401
378.000	.0857	-.3528	-.1598	-.1227	-.0205	.1898	.3121	.3552	-.0944	-.4779	-.0944	.0042	.1142	.2010	.2470

MSFC 587(1A3ZF) 19 S3/2 S3/2 03 EXTERNAL TANK (R82T01)

MACH (3) = 1.050 ALPHA (9) = 10.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9118 .9836

PHI	.000	.2683	-.3280
18.000	.2459	-.0882	
36.000	.2375	.0391	
54.000	.2480	.1190	
72.000	.2688	.1853	
90.000	.3131	.1584	
108.000	.2620	.2345	
126.000	.2275	.1825	
144.000	.2148	.1653	
162.000	.2066	.1561	
180.000	.2060	.1537	
198.000	.2088	.1561	
216.000	.2148	.1653	
234.000	.2275	.1825	
252.000	.2620	.2345	
270.000	.3131	.1584	
288.000	.2688	.1853	
306.000	.2480	.1190	
324.000	.2375	.0391	
342.000	.2459	-.0882	
360.000	.2683	-.3280	

MACH (4) = 1.250 ALPHA (1) = -10.000 Q = 9.2828 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0797 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.6808	.1801	-.1419	-.1240	-.0725	.4344	.6708	.6505	-.3634	.0739	-.0620	-.1823	-.0695	-.0001
18.000	.6445	.1587	-.1684	-.1531	-.1024	.4290	.5912	.5912	.5675	.2094	.0568	-.0774	-.1753	-.0799	-.0060
36.000	.5888	.1231	-.1978	-.1804	-.1297	.3952	.5174	.4588	.4588	.2436	-.0998	-.0924	-.1660	-.0957	-.0167
54.000	.5123	.000	-.2454	-.2221	-.0188	.4278	.5148	.3556	.3036	-.1016	-.0911	-.0911	-.1480	-.0840	-.0038
72.000	.4334	.0051	-.2812	-.2371	.1100	.6295	.5956	.1370	.2958	-.0188	-.0466	-.0707	-.1389	-.0699	-.0050
90.000	.3390	-.0737	-.3481	-.3048	.1390	.4945	.3768	-.3560	-.3560	-.3543	-.1685	-.0887	-.0775	-.0430	-.0006
108.000	.2785	-.1273	-.3894	-.3703	.0068	-.0284	.3786	-.3786	-.3786	-.3138	-.0882	-.0171	-.0400	-.0445	-.0234
126.000	.2300	-.1688	-.4139	-.4011	-.1422	-.1110	-.2278	-.3042	-.3632	-.3196	-.1187	-.0712	-.0375	-.0454	-.0242
144.000	.1992	-.1898	-.4185	-.3919	-.2994	-.0824	-.0807	-.1123	-.1127	-.3029	-.1103	-.0596	-.0408	-.0554	-.0342
162.000	.1775	-.1990	-.4149	-.3775	-.3348	-.0512	.0724	.0395	-.0200	-.2419	-.1889	-.0160	-.0072	-.0430	-.0301
180.000	.1749	-.2064	-.4080	-.3702	-.3388	-.0313	.1163	.0955	-.0345	-.2059	-.2346	-.0109	-.0198	-.0345	-.0225
198.000	.1775	-.1990	-.4149	-.3775	-.3348	-.0512	.0724	.0395	-.0200	-.2419	-.1889	-.0160	-.0072	-.0430	-.0301
216.000	.1992	-.1898	-.4185	-.3919	-.2984	-.0824	-.0807	-.1123	-.1127	-.3029	-.1103	-.0596	-.0408	-.0554	-.0342
234.000	.2300	-.1688	-.4139	-.4011	-.1422	-.1110	-.2278	-.3042	-.3632	-.3196	-.1187	-.0712	-.0375	-.0454	-.0242
252.000	.2785	-.1273	-.3894	-.3703	.0068	-.0284	.3786	-.3786	-.3786	-.3138	-.0882	-.0171	-.0400	-.0445	-.0234
270.000	.3390	-.0737	-.3481	-.3048	.1390	.4945	.3768	-.3560	-.3560	-.3543	-.1685	-.0887	-.0775	-.0430	-.0006

ORIGINAL PAGE
OF POOR QUALITY

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(1082101)

EXTERNAL TANK

MACH (4) = 1.250 ALPHA (1) = -10.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0767	.1600	.2603	.2947	.2707	.3136	.3468	.3816	.4378	.5005	.5732	.6408	.7085	.7762	.8439
PHI	.4334	-.0051	-.2812	-.2371	.1160	.6805	.3608	.1370	.2828	-.0108	-.0486	-.0707	-.1368	-.0699	-.0058
288.000	.0123	.0800	-.2424	-.2221	-.0188	.4279	.5148	.3926	.3038	-.1016	-.0591	-.0911	-.1480	-.0840	-.0038
324.000	.5068	.1231	-.1878	-.1804	-.1297	.3832	.5174	.4388	.2436	-.0988	-.0223	-.0924	-.1660	-.0957	-.0167
342.000	.8445	.1587	-.1684	-.1531	-.1024	.4290	.5912	.5675	.2694	-.2504	.0588	-.0774	-.1753	-.0759	-.0060
360.000	.6808	.1801	-.1419	-.1240	-.0725	.4344	.6708	.6505	.9.9880	-.3834	.0739	-.0620	-.1823	-.0695	-.0001
378.000								.2054							

X/LT .9118 .9838

PHI

.000	.2782	-.3983
18.000	.2082	-.2997
36.000	.1398	-.1343
54.000	.1221	.0111
72.000	.1445	.0684
90.000	.1781	-.0226
108.000	.0822	.0414
126.000	.0302	.0735
144.000	.0023	.0480
162.000	-.0006	.0280
180.000	-.0047	.0160
198.000	-.0008	.0280
216.000	.0023	.0480
234.000	.0302	.0735
252.000	.0822	.0414
270.000	.1781	-.0226
288.000	.1445	.0684
306.000	.1221	.0111
324.000	.1398	-.1343
342.000	.2082	-.2997
360.000	.2782	-.3983

MACH (4) = 1.250 ALPHA (2) = -8.000 Q = 9.2926 PTA = 3816 PTA = 22.005 RL = 6.6822 PSA = 8.4788

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.6261	.1311	-.1801	-.1639	-.1111	.3576	.6057	.6469	.1993	-.2663	.0321	-.0754	-.1769	-.1041	.0217
18.000	.5988	.1203	-.1940	-.1856	-.1345	.3747	.5202	.5581	.2170	-.1257	-.0500	-.0837	-.1714	-.1140	.0043
36.000	.5553	.0920	-.2196	-.2042	-.1514	.3492	.4718	.4240	.2767	-.1315	-.0774	-.0955	-.1526	-.1056	.0573
54.000	.4929	.0397	-.2571	-.2367	-.0937	.4189	.4634	.2738	.2802	-.0417	-.0471	-.0774	-.1373	-.0907	.0073
72.000	.4355	-.0084	-.2584	-.2378	.0567	.5979	.5581	-.0791	.2802	-.0417	-.0471	-.0774	-.1373	-.0907	.0073
90.000	.3951	-.0849	-.3371	-.3221	.1299	.4927	.4403	-.4863	-.3687	-.1352	-.0658	-.0658	-.0658	-.0505	-.0039

(R82T01)

MACH (4) = 1.250 ALPHA (3) = -5.000 0 = 9.2926 PTA = 22.066 RL = 6.6822 PSA = 8.4788

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT		.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.5444	.0587	-.2365	-.2265	-.1649	.2666	.5181	.6419	-.3911	-.0083	-.0619	-.1581	-.0957	-.0662	
	18.000	.5211	.0561	-.2441	-.2350	-.1880	.3060	.4408	.5161	.1638	-.2982	-.0178	-.0686	-.1555	-.1059	.0904
	36.000	.4977	.0411	-.2609	-.2493	-.1739	.2938	.4286	.4057	.1448	-.1810	-.0919	-.0549	-.1552	-.1219	.1082
	54.000	.4609	.0149	-.2783	-.2596	-.1444	.3968	.4101	.2087	.2408	-.1623	-.0919	-.0882	-.1305	-.1182	.0791
	72.000	.4276	-.0186	-.3026	-.2864	.0666	.5675	.4963	-.2410	.2523	-.0744	-.0054	-.0765	-.1194	-.1059	.0798
	90.000	.3738	-.0499	-.3238	-.3109	.1165	.5465	.5328	-.5328	-.3717	-.0669	-.0524	-.0532	-.0511	.0392	
	108.000	.3556	-.0716	-.3441	-.3291	.0107	.2196	.2079	-.5721	-.3607	-.2704	-.0574	-.0132	-.0191	-.0303	.0375
	126.000	.3285	-.0983	-.3619	-.3452	-.1582	.0262	.0262	-.2655	-.1337	-.2386	-.0490	-.0461	-.0274	-.0311	-.0387
	144.000	.3126	-.1177	-.3692	-.3542	-.2797	.0341	.0295	-.0195	-.1023	-.2335	-.0615	-.0303	-.0149	-.0307	-.0160
	162.000	.2999	-.1339	-.3672	-.3539	-.2924	-.0827	.1160	.1173	-.0902	-.1817	-.1298	.0041	.0261	-.0150	-.0291
	180.000	.2999	-.1310	-.3672	-.3539	-.2924	-.0827	.1160	.1173	-.0902	-.1817	-.1298	.0041	.0261	-.0150	-.0291
	198.000	.3126	-.1177	-.3692	-.3542	-.2797	.0341	.0295	-.0195	-.1023	-.2335	-.0615	-.0303	-.0149	-.0307	-.0166
	216.000	.3285	-.0983	-.3619	-.3452	-.1582	.0262	.0262	-.2655	-.1337	-.2386	-.0490	-.0461	-.0274	-.0311	-.0387
	234.000	.3556	-.0716	-.3441	-.3291	.0107	.2195	.0379	-.5721	-.3607	-.2704	-.0574	-.0132	-.0191	-.0303	.0375
	270.000	.3738	-.0499	-.3238	-.3109	.1165	.5465	.5328	-.5328	-.3717	-.0669	-.0524	-.0532	-.0511	.0392	
	298.000	.4276	-.0186	-.3026	-.2864	.0666	.5675	.4963	-.2410	.2523	-.0744	-.0054	-.0765	-.1194	-.1059	.0798
	316.000	.4609	.0149	-.2783	-.2596	-.1444	.3958	.4101	.2087	.2408	-.1623	-.0919	-.0882	-.1305	-.1182	.0791
	324.000	.4977	.0411	-.2609	-.2493	-.1739	.2938	.4286	.4057	.1448	-.1810	-.0919	-.0549	-.1552	-.1219	.1082
	342.000	.5211	.0561	-.2441	-.2350	-.1880	.3050	.4408	.5161	.1638	-.2982	-.0178	-.0686	-.1555	-.1059	.0904
	360.000	.5444	.0587	-.2365	-.2265	-.1649	.2665	.5181	.6419	.1638	-.2982	-.0178	-.0686	-.1555	-.1059	.0904
	378.000															

X/LT .9116 .9636

PHI	.000	.3175	-.4487
	18.000	.2504	-.3072
	36.000	.1939	-.0957
	54.000	.1744	.0928
	72.000	.1869	.1789
	90.000	.1803	.0558
	108.000	.1063	.0996
	126.000	.0516	.0858
	144.000	.0170	.0524
	162.000	.0120	.0473
	180.000	.0050	.0433
	198.000	.0120	.0473
	216.000	.0170	.0524
	234.000	.0516	.0858
	252.000	.1063	.0996
	270.000	.1803	.0558
	288.000	.1744	.0928
	306.000	.1744	.0928
	324.000	.1939	-.0957

(R02T01)

EXTERNAL TANK

MSFC 567(1A32F) T9 S3/2 S3/2 03

MACH (4) = 1.250 ALPHA (3) = -5.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .2504 -.3072
360.000 .3175 -.4487

MACH (4) = 1.250 ALPHA (4) = -2.000 0 = 9.2926 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.4653	-.0011	-.2837	-.2804	-.2063	.2352	.4541	.6168	-.4102	-.0835	-.0373	-.1236	-.0727	.1330
18.000	.4480	.0026	-.2915	-.2819	-.2060	.2388	.3726	.4759	.1384	-.3395	-.0694	-.0344	-.1252	-.0831	.1255
36.000	.4375	-.0040	-.2956	-.2806	-.1919	.2476	.3817	.3759	.0667	-.2256	-.0944	-.0439	-.1273	-.0989	.1302
54.000	.4236	-.0140	-.3010	-.2768	-.1456	.3282	.3678	.1425	.1675	-.1765	-.0969	-.0711	-.1049	-.0986	.1119
72.000	.4178	-.0273	-.3089	-.2694	-.0081	.5048	.4070	.3431	.1482	-.0884	-.0160	-.0735	-.0652	-.3902	.1131
90.000	.3851	-.0406	-.3163	-.3100	.1305	.5748	.5939	-.5391	-.3258	-.0102	-.0585	-.0335	-.0427	.0589	
108.000	.3838	-.0465	-.3256	-.3165	.0113	.3338	.1905	.5443	-.2848	-.1452	-.0314	-.0277	-.0131	-.0194	.0180
126.000	.3792	-.0590	-.3377	-.3252	-.2065	.1063	.1426	-.1769	-.1486	-.1694	-.0285	-.0299	-.0031	-.0127	.0051
144.000	.3708	-.0693	-.3442	-.3305	-.2630	.0680	.1071	.0347	-.1793	-.1576	-.0694	-.0181	.0114	-.0019	.0126
162.000	.3721	-.0765	-.3452	-.3260	-.2702	-.0502	.1322	.1492	-.0594	-.1644	-.1052	.0076	.0322	.0022	.0039
180.000	.3728	-.0736	-.3434	-.3196	-.2683	-.1720	.1810	.1819	-.0123	-.1895	-.1263	.0125	.0334	.0009	-.0206
198.000	.3721	-.0765	-.3452	-.3260	-.2702	-.0502	.1322	.1492	-.0594	-.1544	-.1052	.0076	.0322	.0022	.0039
216.000	.3708	-.0693	-.3442	-.3305	-.2630	.0680	.1071	.0347	-.1793	-.1576	-.0694	-.0181	.0114	-.0019	.0126
234.000	.3792	-.0590	-.3377	-.3252	-.2065	.1063	.1426	-.1769	-.1486	-.1694	-.0285	-.0299	-.0031	-.0127	.0051
252.000	.3638	-.0465	-.3256	-.3165	.0113	.3338	.1905	.5443	-.2848	-.1452	-.0314	-.0277	-.0131	-.0194	.0180
270.000	.3853	-.0406	-.3163	-.3100	.1305	.5748	.5939	-.5391	-.3258	-.0102	-.0585	-.0335	-.0427	.0589	
288.000	.4178	-.0273	-.3089	-.2894	-.0081	.5048	.4070	.3431	.1482	-.0884	-.0160	-.0735	-.0652	-.0986	.1119
306.000	.4236	-.0140	-.3010	-.2768	-.1456	.3282	.3678	.1425	.1675	-.1765	-.0969	-.0711	-.1049	-.0986	.1119
324.000	.4375	-.0040	-.2956	-.2806	-.1919	.2476	.3817	.3759	.0667	-.2256	-.0944	-.0439	-.1273	-.0989	.1302
342.000	.4480	.0026	-.2915	-.2819	-.2060	.2388	.3726	.4759	.1384	-.3395	-.0694	-.0344	-.1252	-.0831	.1255
360.000	.4653	-.0011	-.2837	-.2804	-.2063	.2352	.4541	.6168	-.4102	-.0835	-.0373	-.1236	-.0727	.1330	
378.000	.9116	.9836													

X/LT .9116 .9836

PHI
18.000 .3308 -.4660
36.000 .2654 -.2894
54.000 .2191 -.0315
72.000 .2074 .1699
90.000 .2231 .2752
108.000 .1955 .0564
126.000 .1545 .1153
144.000 .0580 .0780
162.000 .0289 .0643

ORIGINAL PAGE IS OF POOR QUALITY

TABULATED SOURCE DATA, MSFC TWT 567 (11A32F)

16821011

EXTERNAL TANK

DATE 03 SEP 75

MSFC 567(11A32F) T9 53/2 53/2 03

MACH (4) = 1.250 ALPHA (5) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9118 .5638

PHI	.000	.3360	-.4567
18.000	.2777	-.2430	
36.000	.2273	.0239	
54.000	.2232	.2057	
72.000	.2484	.3122	
90.000	.2069	.0750	
108.000	.1137	.1249	
126.000	.0623	.0842	
144.000	.0350	.0748	
162.000	.0180	.0630	
180.000	.0168	.0592	
198.000	.0180	.0630	
216.000	.0350	.0748	
234.000	.0623	.0842	
252.000	.1137	.1249	
270.000	.2069	.0750	
288.000	.2484	.3122	
306.000	.2232	.2057	
324.000	.2273	.0239	
342.000	.2777	-.2430	
360.000	.3360	-.4567	

MACH (4) = 1.250 ALPHA (8) = 2.000 Q = 9.3526 PTA = 22.006 RL = 6.6822 PSA = 8.4788

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.3648	-.0820	-.3512	-.3228	-.1598	.1260	.3220	.5434	.6631	-.4203	-.0803	-.0187	-.0556	-.0113	.1634
18.000	.3559	-.0703	-.3445	-.3336	-.0674	.1563	.2931	.3842	.0631	-.3811	-.0279	-.0042	-.0545	-.0187	.1576
36.000	.3606	-.0707	-.3402	-.3123	-.2025	.2017	.3111	.3269	-.0266	-.3136	-.0229	-.0158	-.0545	-.0391	.1585
54.000	.3689	-.0508	-.3349	-.3179	-.2039	.2259	.2595	.0303	.0656	-.2043	-.0499	-.0187	-.0574	-.0516	.1359
72.000	.3895	-.0446	-.3280	-.3135	.0223	.3599	.2417	-.4625	-.1482	-.0775	-.0673	-.2971	-.0478	-.0515	.1364
90.000	.3857	-.0395	-.3192	-.3079	.0952	.5572	.6101	-.5406	-.0632	-.0320	-.0162	-.0233	-.0197	-.0197	.0869
108.000	.4207	-.0213	-.3045	-.2954	-.0562	.4345	.3762	-.4372	-.1727	-.0758	-.0445	-.0234	-.0113	-.0103	.0344
126.000	.4401	-.0100	-.2971	-.2879	-.2313	.1800	.2449	-.0520	-.1997	-.0508	-.0479	-.0195	-.0038	-.0117	.0249
144.000	.4574	.0020	-.2877	-.2802	-.2332	.1052	.1302	.1011	-.1170	-.0929	-.0795	-.0108	-.0272	.0055	.0204
162.000	.4662	.0037	-.2853	-.2732	-.2295	-.1060	.1575	.1592	-.0166	-.1293	-.0953	-.0221	.0000	.0000	.0000
180.000	.4754	.0111	-.2829	-.2692	-.2172	-.1702	.1819	.2257	.0257	-.1469	-.1024	-.0251	.0000	.0000	.0000
198.000	.4652	.0037	-.1953	-.2732	-.2295	-.1060	.1575	.1592	-.0166	-.1293	-.0953	-.0221	.0000	.0000	.0000
216.000	.4574	.0020	-.2877	-.2802	-.2332	.1052	.1302	.1011	-.1170	-.0929	-.0795	-.0108	-.0272	.0055	.0204
234.000	.4401	-.0100	-.2971	-.2879	-.2313	.1800	.2449	-.0520	-.1997	-.0508	-.0479	-.0195	-.0038	-.0117	.0249
252.000	.4207	-.0213	-.3045	-.2954	-.0562	.4345	.3762	-.4372	-.1727	-.0758	-.0445	-.0234	-.0113	-.0103	.0344
270.000	.3895	-.0446	-.3280	-.3135	.0223	.3599	.2417	-.4625	-.0632	-.0320	-.0162	-.0233	-.0197	-.0197	.0869
288.000	.3689	-.0508	-.3349	-.3179	-.2039	.2259	.2595	.0303	-.0266	-.3136	-.0229	-.0158	-.0545	-.0391	.1585
306.000	.3606	-.0707	-.3402	-.3123	-.2025	.2017	.3111	.3269	-.0266	-.3136	-.0229	-.0158	-.0545	-.0391	.1585
324.000	.3559	-.0703	-.3445	-.3336	-.0674	.1563	.2931	.3842	.0631	-.3811	-.0279	-.0042	-.0545	-.0187	.1576
342.000	.3648	-.0820	-.3512	-.3228	-.1598	.1260	.3220	.5434	.6631	-.4203	-.0803	-.0187	-.0556	-.0113	.1634

(R82T01)

MACH (4) = 1.250 ALPHA (6) = 2.000

MSFC 567(1A3ZF) T9 S3/2 S3/2 03 EXTERNAL TANK

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0737	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.3695	-.0446	-.3280	-.3135	.0223	.3599	.2417	-.4625	-.1482	-.0775	-.0670	-.0071	-.0478	-.0516	.1364
18.000	.3699	-.0608	-.3179	-.2039	.2695	.2695	.0303	.0656	-.2043	-.0499	-.0187	-.0674	-.0516	-.1359	
36.000	.3606	-.0707	-.3402	-.3123	-.2025	.2017	.3111	.3269	-.2266	-.3136	-.0229	-.0158	-.0545	-.0391	
54.000	.3559	-.0703	-.3445	-.3336	-.0674	.1563	.2931	.3942	.0631	-.3811	-.0279	-.0042	-.0545	-.0187	
72.000	.3648	-.0820	-.3512	-.3229	-.1598	.1260	.3220	.5434	9.9990	-.4203	-.0803	-.0187	-.0566	-.0113	
90.000									.0631						

X/LT .9116 .9836

PHI

18.000	.3266	-.4202
36.000	.2748	-.1831
54.000	.2391	.0640
72.000	.2370	.2283
90.000	.2558	.3282
108.000	.2121	.1189
126.000	.1247	.1354
144.000	.0744	.0997
162.000	.0441	.0851
180.000	.0286	.0689
198.000	.0294	.0689
216.000	.0441	.0861
234.000	.0744	.0997
252.000	.1247	.1384
270.000	.2121	.1189
288.000	.2558	.3282
306.000	.2370	.2283
324.000	.2391	.0640
342.000	.2748	-.1831
360.000	.3266	-.4202

MACH (4) = 1.250 ALPHA (7) = 5.000 Q = 9.2926 PTA = 3816 .4378 .5055 .5732 .6403 .7085 .7762 .8439

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6403	.7085	.7762	.8439
PHI	.2929	-.1373	-.3502	-.3032	-.0833	.0933	.2588	.4555	-.3680	-.0047	.0227	-.0064	.0551	.1919	
18.000	.2861	-.1268	-.3795	-.3375	-.0616	.1108	.2533	.4738	.0401	-.3874	.0455	.0297	-.0147	.0468	
36.000	.3015	-.1152	-.3658	-.3288	-.1929	.1631	.2604	.2785	.0102	-.3549	.0489	.0160	-.0276	.0289	
54.000	.3225	-.0934	-.3590	-.3442	-.1594	.1390	.1713	-.0655	.0193	-.2522	.0312	.0185	-.0213	.0239	
72.000	.3593	-.0745	-.3472	-.3306	-.0114	.2172	.0642	-.4570	-.1178	-.1190	-.0554	.0194	-.0263	.0173	
90.000	.3774	-.0479	-.3282	-.3140	.1154	.5192	.5558	-.5266	-.1096	-.0239	.0135	-.0134	.0202	.1183	

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

(1682101)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

MACH (4) = 1.250 ALPHA (0) = 0.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .9116 .9836

PHI
 342.000 -.2935 -.1498
 350.000 .2841 -.3557

MACH (4) = 1.250 ALPHA (0) = 10.000 Q = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI
 .000 .1654 -.2337 -.2741 -.2381 -.1150 -.0025 .1323 .3443
 18.000 .1688 -.2214 -.3578 -.3366 -.0807 .0427 .1696 .2986 .0253
 35.000 .1911 -.2046 -.3791 -.3542 -.1526 .0818 .1508 .2052 .0439
 54.000 .2228 -.1806 -.4069 .3927 .1606 .0240 .0687 .0275 .1150
 72.000 .2862 .1403 .3863 .3688 .0184 .0142 .3626 .3464 .3068
 90.000 .3355 .0845 .3510 .3354 .1115 .4313 .4155 .4530
 108.000 .4351 .0046 .3025 .2863 .1160 .5470 .5507 .2101
 125.000 .5316 .0694 .2501 .2380 .1423 .3232 .3658 .1081
 144.000 .6052 .1305 .2022 .1872 .1419 .1829 .2915 .2279
 162.000 .6552 .1747 .1682 .1573 .1083 .0758 .2905 .2888
 180.000 .6751 .1692 .1515 .1315 .0853 .0608 .2645 .2688
 198.000 .6552 .1747 .1682 .1578 .1083 .0758 .2905 .2888
 216.000 .6052 .1305 .2022 .1872 .1419 .1829 .2915 .2279
 234.000 .5316 .0694 .2501 .2380 .1423 .3232 .3658 .1081
 252.000 .4351 .0046 .3025 .2863 .1160 .5470 .5507 .2101
 270.000 .3355 .0845 .3510 .3364 .1115 .4313 .4155 .4530
 288.000 .2862 .1403 .3863 .3688 .0184 .0142 .3626 .3464
 306.000 .2228 .1806 .4069 .3927 .1606 .0240 .0687 .0275
 324.000 .1911 .2046 .3791 .3542 .1526 .0818 .1508 .2052
 342.000 .1688 .2214 .3578 .3366 .0807 .0427 .1696 .2986
 350.000 .1654 .2337 .2741 .2381 .1150 .0025 .1323 .3443
 378.000 .9116 .9836

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439
 PHI
 .000 .1654 -.2337 -.2741 -.2381 -.1150 -.0025 .1323 .3443
 18.000 .1688 -.2214 -.3578 -.3366 -.0807 .0427 .1696 .2986 .0253
 35.000 .1911 -.2046 -.3791 -.3542 -.1526 .0818 .1508 .2052 .0439
 54.000 .2228 -.1806 -.4069 .3927 .1606 .0240 .0687 .0275 .1150
 72.000 .2862 .1403 .3863 .3688 .0184 .0142 .3626 .3464 .3068
 90.000 .3355 .0845 .3510 .3354 .1115 .4313 .4155 .4530
 108.000 .4351 .0046 .3025 .2863 .1160 .5470 .5507 .2101
 125.000 .5316 .0694 .2501 .2380 .1423 .3232 .3658 .1081
 144.000 .6052 .1305 .2022 .1872 .1419 .1829 .2915 .2279
 162.000 .6552 .1747 .1682 .1573 .1083 .0758 .2905 .2888
 180.000 .6751 .1692 .1515 .1315 .0853 .0608 .2645 .2688
 198.000 .6552 .1747 .1682 .1578 .1083 .0758 .2905 .2888
 216.000 .6052 .1305 .2022 .1872 .1419 .1829 .2915 .2279
 234.000 .5316 .0694 .2501 .2380 .1423 .3232 .3658 .1081
 252.000 .4351 .0046 .3025 .2863 .1160 .5470 .5507 .2101
 270.000 .3355 .0845 .3510 .3364 .1115 .4313 .4155 .4530
 288.000 .2862 .1403 .3863 .3688 .0184 .0142 .3626 .3464
 306.000 .2228 .1806 .4069 .3927 .1606 .0240 .0687 .0275
 324.000 .1911 .2046 .3791 .3542 .1526 .0818 .1508 .2052
 342.000 .1688 .2214 .3578 .3366 .0807 .0427 .1696 .2986
 350.000 .1654 .2337 .2741 .2381 .1150 .0025 .1323 .3443
 378.000 .9116 .9836

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 OF POOR QUALITY

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(R82T01)

EXTERNAL TANK

MSFC 567(1A32F) T9 53/2 53/2 03

EXTERNAL TANK

MACH (4) = 1.250 ALPHA (9) = 10.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI	
162.000	.0731
180.000	.1264
198.000	.1177
216.000	.1264
234.000	.0932
252.000	.1586
270.000	.1552
288.000	.1331
306.000	.2406
324.000	.2277
342.000	.1556
360.000	.2273
	.0574
	.2411
	-.1408
	.2639
	-.3481

MACH (5) = 1.460 ALPHA (1) = -10.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI														
.000	.7378	.8240	-.0524	-.0483	-.0184	.1873	.6839	.7784	-.2253	.1163	.0787	-.0349	-.0825	-.0445
18.000	.7004	.8088	-.0883	-.0948	-.0428	.8448	.4888	.6432	.3488	.0881	.0485	-.0341	-.0882	-.0478
36.000	.6386	.1740	-.1008	-.0880	-.0778	.3848	.4890	.4931	.2897	.0348	.0419	-.0612	-.0796	-.0384
54.000	.9378	.1215	-.1480	-.1386	-.0956	.3546	.4411	.4032	.3975	.0353	.0149	-.0743	-.0755	-.0270
72.000	.4794	.0644	-.1699	-.1401	.0169	.4536	.7285	.0938	.4222	.0539	-.0098	-.0461	-.0771	-.0314
90.000	.3708	-.0011	-.2433	-.2046	.0437	.5160	.5743	-.2858	-.2119	-.0967	-.1265	-.0674	-.0698	-.0310
108.000	.3117	-.0540	-.2710	-.2526	-.0997	.0682	-.1543	-.4561	-.3860	-.0886	-.0033	-.0298	-.0425	-.0310
126.000	.2718	-.0861	-.2665	-.2832	-.1857	-.0163	-.1212	-.3277	-.3277	-.0814	-.0602	-.0483	-.0361	-.0250
144.000	.2465	-.0892	-.2934	-.2902	-.2305	-.0675	-.0671	-.1219	-.0843	-.0907	-.0694	-.0437	-.0282	-.0229
162.000	.2212	-.1001	-.2937	-.2811	-.2353	-.0964	.0444	.0403	-.0074	-.1389	-.0513	-.0209	-.0086	-.0098
180.000	.2126	-.1174	-.2929	-.2737	-.2301	-.1260	.0633	.0996	.0094	-.1060	-.0209	-.0209	-.0005	-.0160
198.000	.2212	-.1001	-.2937	-.2811	-.2353	-.0964	.0444	.0403	-.0074	-.1389	-.0513	-.0209	-.0086	-.0098
216.000	.2425	-.0892	-.2934	-.2902	-.2305	-.0675	-.0671	-.1219	-.0843	-.0907	-.0694	-.0437	-.0282	-.0229
234.000	.2718	-.0861	-.2665	-.2832	-.1857	-.0163	-.1212	-.3277	-.3277	-.0814	-.0602	-.0483	-.0361	-.0250
252.000	.3117	-.0540	-.2710	-.2526	-.0997	.0682	-.1543	-.4561	-.3860	-.0886	-.0033	-.0298	-.0425	-.0310
270.000	.3708	-.0011	-.2433	-.2046	.0437	.5160	.5743	-.2858	-.2119	-.0967	-.1265	-.0674	-.0698	-.0310
288.000	.4794	.0644	-.1699	-.1401	.0169	.4536	.7285	-.0938	.4222	.0539	-.0098	-.0461	-.0771	-.0314
306.000	.5979	.1215	-.1490	-.1396	-.0956	.3546	.4411	.4032	.3975	.0353	.0149	-.0743	-.0755	-.0270
324.000	.6386	.1740	-.1009	-.0980	-.0776	.3848	.4890	.4931	.2897	.0348	.0419	-.0612	-.0796	-.0384
342.000	.7004	.2086	-.0653	-.0642	-.0426	.2449	.4986	.6432	.3458	.0691	.0465	-.0541	-.0882	-.0478
360.000	.7376	.2240	-.0524	-.0463	-.0194	.1873	.5239	.7784	9.9950	.1163	.0787	-.0349	-.0825	-.0445
378.000									.3458					

MSFC 567(1A3ZF) T9 S3/2 S3/2 03 E (EXTERNAL TANK (R82701))

MACH (5) = 1.460 ALPHA (1) = -10.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .8836

PHI	.000	.3017	-.3145
18.000	.2323	-.2391	
36.000	.1507	-.0714	
54.000	.0916	.0418	
72.000	.1167	.1355	
90.000	.1803	-.0714	
108.000	.0820	.0244	
126.000	.0161	.0398	
144.000	-.0151	.0154	
162.000	-.0147	.0117	
180.000	-.0131	.0100	
198.000	-.0147	.0117	
216.000	-.0151	.0154	
234.000	.0161	.0358	
252.000	.0620	.0244	
270.000	.1803	-.0714	
288.000	.1167	.1355	
306.000	.0416	.0418	
324.000	.1507	-.0714	
342.000	.2323	-.2391	
360.000	.3017	-.3145	

MACH (5) = 1.460 ALPHA (2) = -8.000 0 = 9.4738

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.6775	.1673	-.0081	-.0870	-.0535	.2082	.4545	.7453	-.2504	.0771	.0677	-.0479	-.0793	-.0633
18.000	.6505	.1804	-.0909	-.1009	-.0674	.2662	.4447	.5774	.3360	-.1951	.0402	.0374	-.0667	-.0898	-.0584
36.000	.6048	.1386	-.1237	-.1217	-.0846	.3301	.4395	.4693	.2856	-.0846	.0216	.0245	-.0652	-.0930	-.0395
54.000	.5418	.1000	-.1546	-.1493	-.0902	.3296	.4106	.3595	.3615	-.0614	.0118	.0057	-.0848	-.0856	-.0469
72.000	.4757	.0551	-.1959	-.1498	-.0546	.4569	.6815	-.0232	.3977	.0408	-.0204	-.0037	-.0473	-.0824	-.0445
90.000	.3956	.0174	-.2268	-.1862	-.0573	.5631	.6326	-.3118	-.2178	-.1077	-.1000	-.0482	-.0624	-.0194	-.0164
108.000	.3454	-.0237	-.2559	-.2236	-.1709	.1769	.0303	-.4350	-.3721	-.2845	-.0838	-.0017	-.0213	-.0299	-.0164
126.000	.3123	-.0508	-.2607	-.2575	-.1819	-.0254	-.0287	-.2611	-.2350	-.2615	-.0663	-.0508	-.0451	-.0307	-.0156
144.000	.2887	-.0776	-.2716	-.2699	-.2230	-.0363	-.0294	-.0682	-.0968	-.2123	-.0763	-.0592	-.0351	.0274	-.0159
162.000	.2722	-.0740	-.2782	-.2741	-.2210	-.1148	.0023	.0770	-.0213	-.1234	-.1234	-.0698	-.0078	.0068	-.0033
180.000	.2784	-.0740	-.2782	-.2741	-.2210	-.1148	.0023	.0770	-.0213	-.1234	-.1234	-.0698	-.0078	.0068	-.0033
198.000	.2867	-.0776	-.2716	-.2699	-.2230	-.0363	-.0294	-.0682	-.0968	-.2123	-.0763	-.0592	-.0351	.0274	-.0159
216.000	.3123	-.0508	-.2607	-.2575	-.1819	-.0254	-.0287	-.2611	-.2350	-.2615	-.0663	-.0508	-.0451	-.0307	-.0156
234.000	.3454	-.0237	-.2559	-.2236	-.1709	.1769	.0303	-.4350	-.3721	-.2845	-.0838	-.0017	-.0213	-.0299	-.0164
252.000	.3956	.0174	-.2268	-.1862	-.0573	.5631	.6326	-.3118	-.2178	-.1077	-.1000	-.0482	-.0624	-.0194	-.0164
270.000	.4757	.0551	-.1959	-.1498	-.0546	.4569	.6815	-.0232	.3977	.0408	-.0204	-.0037	-.0473	-.0824	-.0445

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

DATE 05 SEP 75

(R82T01)

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

MACH (5) = 1.460 ALPHA (2) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1850	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.4787	.0261	-.1925	-.1488	-.0548	.4588	.8818	-.0232	.3977	.0488	-.0037	-.0473	-.0824	-.0445
18.000	.5418	.1600	-.1546	-.1483	-.0802	.3268	.4106	.3595	.3615	-.0811	.0118	.0057	-.0848	-.0856	-.0469
36.000	.6048	.1386	-.1237	-.1217	-.0846	.3301	.4395	.4693	.2856	-.0846	.0216	.0245	-.0652	-.0930	-.0395
72.000	.6505	.1604	-.0989	-.1009	-.0674	.2662	.4447	.5774	.3360	-.1951	.0402	.0374	-.0657	-.0898	-.0584
108.000	.6775	.1673	-.0691	-.0870	-.0535	.2082	.4545	.7453	9.9990	-.2504	.0771	.0677	-.0479	-.0793	-.0633
378.000									.3360						

X/LT .9116 .9036

PHI

.000	.2909	-.2804
18.000	.2257	-.2228
36.000	.1489	-.0652
54.000	.0934	.0513
72.000	.1216	.1105
90.000	.1829	-.0266
108.000	.0946	.0517
126.000	.0288	.0636
144.000	-.0045	.0350
162.000	-.0070	.2256
180.000	-.0057	.0175
198.000	-.0070	.0256
216.000	-.0045	.0350
234.000	.0298	.0636
252.000	.0946	.0517
270.000	.1829	-.0266
288.000	.1216	.1105
306.000	.0934	.0543
324.000	.1489	-.0652
342.000	.2257	-.2228
360.000	.2909	-.2904

MACH (5) = 1.460 ALPHA (3) = -5.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.5823	.1180	-.1478	-.1424	-.0857	.2915	.3442	.6231	-.2903	.0788	.0429	-.0786	-.0521	-.0766
18.000	.5590	.1163	-.1543	-.1473	-.1004	.2907	.3667	.4749	.2948	-.2613	.0639	.0139	-.0920	-.0640	-.0684
36.000	.5353	.0972	-.1690	-.1600	-.1012	.2899	.3875	.4455	.1919	-.1465	.0569	-.0080	-.0509	-.0852	-.0526
54.000	.4961	.0582	-.1849	-.1739	-.0591	.2950	.4059	.3197	.2956	-.0950	-.0277	.0241	-.0705	-.0898	-.0411
72.000	.4657	.0379	-.2021	-.1718	-.1233	.5535	.6019	-.1273	.2952	.0208	-.1223	.0609	-.0578	-.0970	-.0415
90.000	.4059	.0164	-.2203	-.1803	-.1334	.6243	.6988	-.3404	.2952	-.2538	-.1027	-.0300	-.0598	-.0627	-.0129

TABLATED SOURCE DATA, MSFC TMT 987 (1A32F)

DATE 05 SEP 75

(R82T01)

EXTERNAL TANK

MSFC 987(1A32F) TO S3/2 S3/2 03

MACH (5) = 1.460 ALPHA (3) = -5.000

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT		.0757	.1528	.2503	.2367	.2707	.3138	.3498	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI																
108.000	.3787	.0068	-.2442	-.2254	-.1400	.2843	.1495	-.4438	-.3557	-.2156	-.0821	-.0129	-.0236	-.0260	-.0260	-.0137
126.000	.3556	-.0122	-.2293	-.2398	-.1890	.0947	.0943	-.1457	-.1792	-.1837	-.0455	-.0468	-.0586	-.0431	-.0431	-.0133
144.000	.3377	-.0281	-.2498	-.2418	-.1992	-.0946	.1147	-.0077	-.1559	-.1326	-.0860	-.0590	-.0251	-.0256	-.0256	-.0166
162.000	.3283	-.0309	-.2518	-.2489	-.2118	-.1158	.0266	.0731	.0090	-.1007	-.1453	-.0616	.0029	.0037	.0037	-.0036
180.000	.3254	-.0619	-.2481	-.2481	-.2008	-.1603	.0355	.1380	.0698	-.1158	-.1661	-.0526	.0004	.0139	.0139	-.0101
198.000	.3283	-.0509	-.2518	-.2489	-.2118	-.1158	.0266	.0731	.0090	-.1007	-.1453	-.0616	.0029	.0037	.0037	-.0036
216.000	.3377	-.0281	-.2498	-.2418	-.1992	-.0946	.1147	-.0077	-.1559	-.1326	-.0860	-.0590	-.0251	-.0256	-.0256	-.0166
234.000	.3556	-.0122	-.2293	-.2398	-.1890	.0947	.0943	-.1457	-.1792	-.1837	-.0455	-.0468	-.0586	-.0431	-.0431	-.0133
252.000	.3787	.0068	-.2442	-.2254	-.1400	.2843	.1495	-.4438	-.3557	-.2156	-.0821	-.0129	-.0236	-.0260	-.0260	-.0137
270.000	.4059	.0164	-.2203	-.1803	-.1334	.6243	.6888	-.3404	-.2538	-.1027	-.0300	-.0598	-.0627	-.0627	-.0129	-.0415
298.000	.4667	.0379	-.2021	-.1718	-.1233	.5635	.6019	-.1273	.2952	.0208	-.1223	.0609	-.0578	-.0578	-.0415	-.0415
306.000	.4961	.0682	-.1849	-.1739	-.0991	.2950	.4059	.3197	.2056	-.0950	-.2777	.0241	-.0705	-.0958	-.0411	-.0411
324.000	.5353	.0972	-.1690	-.1600	-.1012	.2809	.3875	.4455	.1919	-.1485	.0568	-.0080	-.0509	-.0852	-.0526	-.0526
342.000	.5590	.1163	-.1543	-.1473	-.1004	.2907	.3667	.4749	.2948	-.2613	.0638	.0139	-.0920	-.0640	-.0640	-.0684
360.000	.5823	.1180	-.1478	-.1424	-.0857	.2915	.3442	.6231	9.9990	-.2903	.0788	.0429	-.0786	-.0521	-.0521	-.0766
378.000									.2948							

X/LT .9116 .9436

PHI	
.000	.2822
18.000	-.2169
36.000	.1606
54.000	-.1218
72.000	.1483
90.000	.1793
108.000	.0932
126.000	.0356
144.000	.0025
162.000	-.0019
180.000	-.0007
198.000	-.0019
216.000	.0025
234.000	.0356
252.000	.0932
270.000	.1793
288.000	.1483
306.000	.1218
324.000	.1606
342.000	-.2169
360.000	.2822

ORIGINAL PAGE IS OF POOR QUALITY

TABULATED SOURCE DATA, MSFC THT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) 19 53/2 53/2 03 EXTERNAL TANK (R82T01)

MACH (5) = 1.460 ALPHA (%) = -2.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.0698	.0698	-.1795	-.1697	-.1338	.2232	.2979	.5762	-.3191	.1425	.0706	.0301	.0085	-.0404	-.0269
18.000	.4701	.0694	-.1795	-.1709	-.1391	.2497	.3208	.4777	-.4081	.1351	.0265	-.0832	-.0273	-.0269	-.0210
36.000	.4626	.0592	-.1873	-.1812	-.1240	.2266	.3328	.3957	-.1678	.0788	-.0203	-.0191	-.0706	-.0210	-.0166
54.000	.4501	.0510	-.2011	-.1811	-.1244	.2424	.3742	.2204	-.1392	-.1276	-.0232	-.0481	-.0771	-.0166	-.0130
72.000	.4483	.0384	-.2102	-.1743	-.1314	.5002	.5035	-.2147	.0624	.0155	-.1478	-.0510	-.0800	-.0130	-.0008
90.000	.4177	.0208	-.2139	-.1956	-.0833	.6219	.7383	-.3511	-.2756	-.1077	-.0596	-.0224	-.0306	-.0208	-.0012
108.000	.4128	.0094	-.2208	-.2171	-.1513	.3279	.3169	-.3637	-.3466	-.1077	-.0596	-.0224	-.0306	-.0208	-.0012
126.000	.4110	.0094	-.2312	-.2255	-.1679	.1058	.1904	-.0588	-.1969	-.0314	-.0273	-.0265	-.0285	-.0326	-.0077
144.000	.4069	.0085	-.2330	-.2309	-.1787	-.0230	.1012	.0706	-.1503	.1093	-.0383	-.0122	-.0297	.0036	-.0033
162.000	.4024	-.0044	-.2309	-.2219	-.1831	-.1431	.0686	.1029	.0433	-.0950	-.1236	-.0571	-.0052	-.0105	-.0033
180.000	.4067	-.0052	-.2196	-.2122	-.1714	-.1534	-.0093	.1564	.0955	-.0918	-.1413	-.0543	-.0099	.0065	-.0232
198.000	.4024	-.0044	-.2309	-.2219	-.1831	-.1431	.0686	.1029	.0433	-.0950	-.1236	-.0571	-.0052	-.0105	-.0033
216.000	.4069	.0085	-.2330	-.2309	-.1787	-.0330	.1012	.0706	-.1003	.1093	-.0383	-.0122	-.0297	.0036	-.0033
234.000	.4110	.0094	-.2312	-.2255	-.1679	.1058	.1904	-.0588	-.1969	-.0314	-.0273	-.0265	-.0285	-.0326	-.0077
252.000	.4128	.0094	-.2208	-.2171	-.1518	.3279	.3169	-.3637	-.3466	-.1077	-.0596	-.0224	-.0306	-.0208	-.0012
270.000	.4177	.0208	-.2139	-.1956	-.0833	.6219	.7383	-.3511	-.2756	-.1077	-.0596	-.0224	-.0306	-.0208	-.0012
288.000	.4483	.0384	-.2102	-.1743	-.1314	.5002	.5035	-.2147	.0624	.0155	-.1478	.1278	.0510	.0800	.0130
306.000	.4501	.0510	-.2011	-.1811	-.1244	.2424	.3742	.2204	.1392	-.1276	-.1506	-.0232	-.0481	-.0771	-.0166
324.000	.4626	.0592	-.1873	-.1812	-.1240	.2266	.3328	.3957	-.1678	-.2106	.0788	-.0203	-.0191	-.0706	-.0210
342.000	.4701	.0694	-.1795	-.1709	-.1391	.2497	.3208	.4777	-.4081	.1351	.0265	-.0832	-.0273	-.0269	-.0210
360.000	.4869	.0698	-.1795	-.1697	-.1338	.2232	.2979	.5762	-.3191	.1425	.0706	.0301	.0085	-.0404	-.0269
378.000	.9116	.9836													

SECTION (2) EXTERNAL TANK

PHI	.3826	-.1861
18.000	.3207	-.1012
36.000	.2589	.0592
54.000	.2336	.2119
72.000	.2392	.3205
90.000	.2343	.0249
108.000	.1217	.1262
126.000	.0494	.0886
144.000	.0343	.0771
162.000	.0167	.0674
180.000	.0089	.0498
198.000	.0167	.0874
216.000	.0343	.0771
234.000	.0494	.0886
252.000	.1217	.1262
270.000	.2343	.0249
288.000	.2392	.3205
306.000	.2343	.0249
324.000	.2336	.2119
342.000	.2589	.0592
360.000	.3207	-.1012
378.000	.3826	-.1861

(R82T011)

TABULATED SOURCE DATA, MSFC TNF 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK

DATE 05 SEP 75

MACH (5) = 1.460 ALPHA (6) = 2.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .9118 .0838

PM1	.000	.4288	-.1863
18.000	.3883	-.0703	
36.000	.3180	.1244	
54.000	.2523	.2560	
72.000	.3015	.3826	
90.000	.2411	.1248	
108.000	.1252	.1399	
126.000	.0803	.1056	
144.000	.0534	.0946	
162.000	.0224	.0816	
180.000	.0040	.0812	
198.000	.0224	.0816	
216.000	.0534	.0946	
234.000	.0803	.1056	
252.000	.1252	.1399	
270.000	.2411	.1248	
288.000	.3015	.3826	
306.000	.2523	.2560	
324.000	.3180	.1244	
342.000	.3883	-.0703	
360.000	.4288	-.1863	

MACH (5) = 1.460 ALPHA (7) = 5.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .0757 .1950 .2203 .2347 .2707 .3139 .3488 .3818 .4378 .5025 .5732 .6408 .7085 .7762 .8439

PM1	.000	.3381	-.0315	-.2332	-.2218	-.1860	.1183	.2428	.4246	-.2369	-.0208	.1375	.0933	.1293
12.000	.3382	-.0326	-.2503	-.2205	-.1867	-.1867	.1159	.2490	.3813	.1825	-.0388	.1122	.0897	.1191
36.000	.3511	-.0294	-.2495	-.2189	-.1789	-.0883	.0883	.2482	.3148	.1432	-.1222	.0652	.0521	.0799
54.000	.3652	-.0236	-.2387	-.2287	-.1758	-.1302	.1302	.1873	-.0269	.0465	-.1726	.0520	.0539	.0967
72.000	.4010	-.0102	-.2332	-.2267	-.1311	.2911	.1318	.1318	-.3435	-.1830	-.0943	.0313	.0440	.0979
90.000	.4197	.0138	-.2181	-.2075	-.1250	.6035	.7032	-.3586	-.1208	-.0858	-.0315	-.0094	.0268	.0513
108.000	.4705	.0493	-.2049	-.1951	-.1461	.4309	.5848	-.2008	-.1462	-.0665	-.0030	.0240	.0050	.0334
126.000	.5186	.0804	-.1898	-.1804	-.1392	.2156	.2874	-.2874	.1228	-.0350	-.0180	.0200	-.0241	.0113
144.000	.5535	.1077	-.1620	-.1539	-.1290	.0305	.1909	.1228	.1776	.1228	-.0347	-.0192	-.0151	.0142
162.000	.5851	.1269	-.1446	-.1307	-.1131	-.0719	.1155	.2248	.1776	.1695	.0072	-.0335	-.0200	-.0341
180.000	.5979	.1305	-.1400	-.1307	-.1045	-.0792	-.0339	.2648	.1776	.1228	.0003	-.0347	-.0192	.0142
198.000	.5851	.1077	-.1620	-.1539	-.1290	.0305	.1909	.1228	.1776	.1695	.0072	-.0335	-.0200	.0142
216.000	.5186	.0804	-.1898	-.1804	-.1392	.2156	.2874	-.2874	.1228	-.0350	-.0180	.0200	-.0241	.0113
234.000	.4705	.0493	-.2049	-.1951	-.1461	.4309	.5848	-.2008	.1462	-.0665	-.0030	.0240	.0050	.0334
252.000	.4197	.0138	-.2181	-.2075	-.1250	.6035	.7032	-.3586	-.1208	-.0858	-.0315	-.0094	.0268	.0513

(R82T01)

MACH (5) = 1.460 ALPHA (7) = 5.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4310	-.0102	-.2332	-.2267	-.1311	.2511	.1318	-.3435	-.1830	-.0943	-.0734	.0313	.0440	.0175	.0979
280.000	.3652	-.0236	-.2387	-.2227	-.1758	.1302	.1873	-.0269	.0465	-.2317	-.1726	.0220	.0536	.0191	.0967
306.000	.3511	-.0294	-.2435	-.2189	-.1789	.0383	.2462	.3148	.1432	-.2740	-.1222	.0552	.0521	.2301	.0759
324.000	.3392	-.0326	-.2503	-.2205	-.1887	.1159	.2490	.3613	.1825	-.3741	-.0388	.1122	.0897	.0513	.1191
342.000	.3381	-.0315	-.2532	-.2218	-.1960	.1	.2429	.4246	.9.9990	-.2369	-.0208	.1375	.0933	.0593	.1293
360.000									.1825						
378.000															

X/LT .9116 .9836

PHI

.000	.4436	-.1901
18.000	.3903	-.0856
36.000	.3281	.0563
54.000	.2681	.2428
72.000	.2746	.3056
90.000	.2219	.1199
108.000	.1432	.1379
126.000	.0917	.1068
144.000	.0640	.1036
162.000	.0370	.0918
180.000	.0146	.0738
198.000	.0370	.0918
216.000	.0640	.1036
234.000	.0917	.1068
252.000	.1432	.1379
270.000	.2219	.1199
288.000	.2746	.3056
306.000	.2681	.2428
324.000	.3281	.0563
342.000	.3903	-.0856
360.000	.4436	-.1901

MACH (5) = 1.460 ALPHA (8) = 8.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.2601	-.1028	-.1922	-.1963	-.1314	.0568	.1560	.3201	.1188	-.2553	-.1080	.1255	.0919	.1562	.2224
18.000	.2609	-.0861	-.1902	-.1910	-.1453	.0621	.1568	.2532	.1717	-.3038	-.0497	.0917	.0512	.0731	.1527
36.000	.2729	-.0753	-.2074	-.2050	-.1675	.0596	.1456	.1999	.1717	-.3038	-.0497	.0917	.0512	.0731	.1527
54.000	.3020	-.0590	-.2205	-.2137	-.1504	.0453	.0429	.1510	.0052	-.2559	-.0519	.0764	.0529	.0715	.1536
72.000	.3589	-.0358	-.2408	-.2245	-.1579	.1907	-.0235	.4127	-.2449	-.1355	-.0459	.0454	.0535	.0525	.1579
90.000	.3981	.0069	-.2257	-.2249	.0539	.9859	.6472	-.3515	-.1216	-.1050	-.0223	.0292	.0445	.0445	.1319

DATE: 05 SEP 75

PAGE 5A

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82101)

EXTERNAL TANK

MSFC 567(1A32F) TO 53/2 53/2 03

ALPHA (9) = 1.460

PTA = 22.00R

RI = 6.530/

6.36:9

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.2491	-.1318	-.1526	-.1641	-.1171	.0069	.0845	.2274	.0698	-.2609	.0152	.1009	.1050	.1433	.2213
18.000	-.2458	-.1122	-.1441	-.1555	-.1098	.0081	.0829	.1698	.1376	-.3253	.0029	.0570	.0764	.1086	.2119
36.000	.2546	-.1007	-.1591	-.1722	-.1293	.0054	.0654	.1254	.1069	-.2318	-.0284	.0730	.0747	.1036	.1815
54.000	.2813	-.0832	-.1837	-.1783	-.1142	.0265	-.0522	-.2535	-.1069	-.2318	-.0284	.0510	.0649	.0931	.1808
72.000	.3330	-.0529	-.2504	-.2194	-.1023	.1539	-.1297	-.4431	-.2806	-.1627	-.0378	-.0317	.0323	.0686	.1380
90.000	.3832	-.0048	-.2325	-.2313	.0331	.5591	.6081	-.3484	.1587	-.0032	.0641	.0502	.0331	.0449	.0572
108.000	.4824	.1657	-.1934	-.1959	-.0918	.4746	.6873	-.0922	.1371	.0081	.0605	.0319	.0151	.0249	.0360
126.000	.5815	.1318	-.1497	-.1522	-.0938	.2730	.3665	.2191	.1209	.0731	.0396	.0286	.0192	.0159	.0306
144.000	.6574	.1887	-.1138	-.1142	-.0693	.0529	.2646	.2487	.2042	.1070	.0433	.0356	.0360	.0221	.0355
162.000	.7105	.2287	-.0823	-.0836	-.0374	-.0121	.1609	.2540	.2373	.1115	.0515	.0445	.0486	.0302	.0164
180.000	.7329	.2422	-.0705	-.0664	-.0162	.0025	.0511	.2540	.2042	.1070	.0433	.0356	.0360	.0221	.0355
198.000	.7105	.2287	-.0823	-.0836	-.0374	-.0121	.1605	.2487	.2042	.1070	.0433	.0356	.0360	.0221	.0355
216.000	.6574	.1887	-.1138	-.1142	-.0693	.0529	.2646	.2487	.2042	.1070	.0433	.0356	.0360	.0221	.0355
234.000	.5815	.1318	-.1497	-.1522	-.0938	.2730	.3665	.2191	.1209	.0731	.0396	.0286	.0192	.0159	.0306
252.000	.4824	.0857	-.1934	-.1959	-.0918	.4746	.6873	-.0922	.1371	.0081	.0605	.0319	.0151	.0249	.0360
270.000	.3832	-.0048	-.2325	-.2313	.0331	.5591	.6081	-.3484	.1587	-.0032	.0641	.0502	.0331	.0449	.0572
288.000	.3330	-.0529	-.2504	-.2194	-.1023	.1539	-.1297	-.4431	-.2806	-.1627	-.0378	.0510	.0331	.0449	.0572
306.000	.2813	-.0832	-.1837	-.1783	-.1142	.0265	-.0522	-.2535	-.1069	-.2318	-.0284	.0730	.0747	.1036	.1815
324.000	.2556	-.1007	-.1591	-.1722	-.1293	.0054	.0654	.1254	.1069	-.2318	-.0284	.0510	.0649	.0931	.1808
342.000	.2458	-.1122	-.1441	-.1555	-.1098	.0081	.0829	.1698	.1376	-.3253	.0029	.0570	.0764	.1086	.2119
360.000	.2491	-.1318	-.1526	-.1641	-.1171	.0069	.0845	.2274	.0698	-.2609	.0152	.1009	.1050	.1433	.2213
378.000	.2491	-.1318	-.1526	-.1641	-.1171	.0069	.0845	.2274	.0698	-.2609	.0152	.1009	.1050	.1433	.2213

X/LT :9116 .9836

PHI	.3167	-.2234	.2748	-.0791	.2521	.1024	.2472	.1942	.2612	.2567	.2638	.1378	.1645	.1633	.0968	.1524	.0625	.1303	.0425	.0911	.0298	.0637	.180.000	.0425	.0911	.0625	.1303	.0968	.1524	.1645	.1633	.2638	.1336	.2612	.2567	.2472	.1942	.2521	.1024
18.000	.3167	-.2234	.2748	-.0791	.2521	.1024	.2472	.1942	.2612	.2567	.2638	.1378	.1645	.1633	.0968	.1524	.0625	.1303	.0425	.0911	.0298	.0637	.180.000	.0425	.0911	.0625	.1303	.0968	.1524	.1645	.1633	.2638	.1336	.2612	.2567	.2472	.1942	.2521	.1024

C.P

MSFC 567(1A32F) 19 53/2 53/2 03 EXTERNAL TANK (R62T01)

MACH (5) = 1.480 ALPHA (9) = 10.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .2748 -.0791
360.000 .3167 -.2234

MACH (6) = 1.960 ALPHA (1) = -8.000 Q = 10.290 PTA = 3816 PTA = 4378 PTA = 5055 RL = 7.0986 RL = 7.0986 PSA = 3.8676

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.6915	.2712	.0229	.0187	.0120	.0511	.3017	.5946	-.0888	.1856	.2501	.1703	.0274	-.0303
18.000	.6947	.2544	.0184	.0956	.0063	.0492	.2879	.4606	.5130	-.1818	.1400	.2104	.1068	.0093	-.0070
36.000	.6244	.2280	-.0067	-.0109	-.0083	.0568	.2683	.4505	.4143	.0078	.0011	.1675	.0826	.0379	-.0115
54.000	.5933	.1838	-.0454	-.0447	-.0124	.0507	.2432	.3478	.3745	.1019	.0214	.1107	.0781	.0447	-.0168
72.000	.5059	.1338	-.0786	-.0812	-.0237	.1241	.8650	.0966	.2753	.2042	.0518	-.0070	.1638	.0338	-.0161
90.000	.4339	.0951	-.1005	-.0903	-.0591	.4855	.9368	-.0602	-.0075	-.0075	-.1143	.0150	.0766	-.0460	-.0314
108.000	.3867	.0511	-.1144	-.1072	-.0940	.1309	.2140	-.2389	-.2856	-.2329	-.1183	-.0033	.0552	.0034	-.0116
126.000	.3467	.0252	-.1370	-.1333	-.1065	-.0660	.0898	-.1062	-.2279	-.1896	-.1425	-.0195	.0041	-.0210	-.0011
144.000	.3177	.0032	-.1453	-.1430	-.1193	-.0997	-.0079	-.0180	-.1193	-.1336	-.0819	-.0579	-.0383	-.0142	-.0018
162.000	.2997	-.0041	-.1508	-.1500	-.1222	-.0962	-.0387	.0041	.0101	-.0270	-.0865	-.0843	-.0617	-.0146	.0090
180.000	.3014	-.0086	-.1503	-.1503	-.1244	-.1011	.0507	.0533	.0999	.0045	-.0859	-.0882	-.0664	-.0101	.0056
198.000	.2997	-.0041	-.1508	-.1500	-.1222	-.0962	-.0387	.0041	.0101	-.0270	-.0865	-.0843	-.0617	-.0146	.0090
216.000	.3177	.0033	-.1453	-.1430	-.1193	-.0997	-.0079	-.0180	-.1193	-.1336	-.0819	-.0579	-.0383	-.0142	-.0018
234.000	.3467	.0252	-.1370	-.1333	-.1065	-.0660	.0898	-.1062	-.2279	-.1896	-.1425	-.0195	.0041	-.0210	-.0011
252.000	.3867	.0511	-.1144	-.1072	-.0940	.1309	.2140	-.2389	-.2856	-.2329	-.1183	-.0033	.0552	.0034	-.0116
270.000	.4339	.0951	-.1005	-.0903	-.0591	.4855	.9368	-.0602	-.0075	-.0075	-.1143	.0150	.0766	-.0460	-.0314
288.000	.5059	.1338	-.0786	-.0812	-.0237	.1241	.8650	.0966	.2753	.2042	.0518	-.0070	.1638	.0338	-.0161
306.000	.5633	.1838	-.0454	-.0447	-.0124	.0507	.2432	.3478	.3745	.1019	.0214	.1107	.0781	.0447	-.0168
324.000	.6244	.2280	-.0067	-.0109	-.0083	.0568	.2683	.4505	.4143	.0078	.0011	.1675	.0826	.0379	-.0115
342.000	.6947	.2544	.0184	.0956	.0063	.0492	.2879	.4606	.5130	-.1818	.1400	.2104	.1068	.0093	-.0070
360.000	.6915	.2712	.0229	.0187	.0120	.0511	.3017	.5946	9.9590	-.0888	.1856	.2501	.1703	.0274	-.0303
378.000									.5130						

X/LT .9116 .9836

PHI
.000 .2888 -.2090
18.000 .2138 -.1493
36.000 .0308 .0203
54.000 -.0048 .1077
72.000 -.0115 .0515
90.000 .0083 -.0513
108.000 .0360 .0515
126.000 -.0056 .0470
144.000 -.0003 .0361

(R82T01)

MSFC 567(1A32F) T9 53/2 53/2 03 EXTERNAL TANK

MACH (8) = 1.960 ALPHA (1) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .911F .9836

P/I	PTA	RL	PSA
182.000	.0176	.0327	
180.000	.0146	.0150	
198.000	.0178	.0327	
216.000	-.0003	.0361	
234.000	-.0055	.0470	
252.000	.0360	.0515	
270.000	.0083	-.0513	
288.000	-.0115	.0515	
306.000	-.0048	.1077	
324.000	.0308	.0203	
342.000	.2138	-.1493	
360.000	.2966	-.2090	

MACH (8) = 1.960 ALPHA (2) = -5.000 Q = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.8676

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5095 .5732 .6408 .7085 .7762 .8439

PHI	PTA	RL	PSA
.000	.6184	.2631	-.0230
18.000	.5906	.2114	-.0269
36.000	.5749	.1821	-.0402
54.000	.5382	.1412	-.0611
72.000	.5103	.1274	-.0770
90.000	.4806	.1035	-.0897
108.000	.4261	.0625	-.1039
126.000	.4021	.0523	-.1085
144.000	.3815	.0525	-.1275
162.000	.3689	.0304	-.1292
180.000	.3808	.0282	-.1259
198.000	.3869	.0304	-.1292
216.000	.3915	.0325	-.1275
234.000	.4021	.0625	-.1039
252.000	.4606	.1035	-.0897
270.000	.5103	.1412	-.0611
288.000	.5382	.1412	-.0402
306.000	.5749	.1821	-.0269
324.000	.5906	.2114	-.0230
342.000	.6184	.2631	-.0230
378.000			

DATE 05 SEP 75 TABULATED SOURCE DATA, NSFC TMT 567 (1A32F)

(R82T01)

EXTERNAL TANK

MACH (8) = 1.960 ALPHA (3) = -2.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4687	.6971	-.0641	-.0656	-.0419	.0528	.6704	-.0136	-.0709	.0836	.0384	-.0620	.0774	.0217	-.0030
286.000	.4958	.1198	-.0621	-.0749	-.0389	-.0075	.1151	.2838	.2119	-.0071	-.0346	.0504	-.0105	.0368	-.0004
306.000	.5191	.1419	-.0701	-.0709	-.0411	-.0173	.2124	.3273	.3880	-.0351	-.1124	.0650	.0221	.0105	-.0052
324.000	.5287	.1426	-.0629	-.0678	-.0490	-.0147	.2312	.3344	.4410	-.1959	.0236	.0563	.0571	.0225	.0135
342.000	.5298	.1405	-.0518	-.0566	-.0532	-.0102	.2208	.3628	9.9990	-.0860	.0808	.0474	.1230	.0410	-.0256
360.000									.4410						
378.000															

X/LT .8116 .9836

PHI	.2902	-.1959
18.000	.2256	-.1145
36.000	.7253	.0391
54.000	.1195	.1464
72.000	-.1049	.1624
90.000	.1236	-.0399
108.000	.0376	.0707
126.000	.0056	.0748
144.000	.0082	.0761
162.000	.0149	.0522
180.000	.0163	.0315
198.000	.0149	.0522
216.000	.0082	.0761
234.000	.0056	.0748
252.000	.0376	.0707
270.000	.0236	-.0399
288.000	-.0049	.1624
306.000	.0195	.1464
324.000	.0553	.0391
342.000	.2256	-.1145
360.000	.2902	-.1959

MACH (8) = 1.960 ALPHA (4) = .000 Q = 10.280 PTA = 27.998 RL = 7.0966 PSA = 3.8676

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4702	.0928	-.0837	-.0882	-.0584	-.0206	.1975	.3072	.4093	-.0814	.0677	.0161	-.0132	.0545	.0093
18.000	.4621	.0912	-.0891	-.0952	-.0593	-.0235	.1995	.2855	.4093	-.1891	.0232	.0048	-.0417	.0349	.0587
36.000	.4713	.1003	-.0878	-.0827	-.0520	-.0182	.1845	.2797	.3632	-.0504	-.1250	.0421	-.0064	.0101	.0037
54.000	.4625	.0991	-.0869	-.0921	-.0540	-.0118	.1236	.2161	.3115	-.0280	-.0694	.0331	-.0189	.0282	-.0038
72.000	.4699	.1005	-.0903	-.0862	-.0511	.1172	.5793	.0560	-.1386	-.0775	.0259	-.0528	.0545	.0196	-.0038
90.000	.4506	.0869	-.0892	-.0932	-.0526	.3600	1.0328	-.0756	-.1696	-.1252	-.0754	.0428	-.0321	.0021	.0021

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R62T01)

DATE 05 SEP 75

EXTERNAL TANK

MACH (6) = 1.980 ALPHA (4) = .000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
108.000	.4684	.1033	-.0942	-.0984	-.0572	.0750	.5871	-.0644	-.1906	-.1290	-.0517	-.0370	.0097	.0082	.0021
126.000	.4858	.1077	-.0955	-.0963	-.0687	-.0227	.1025	.1655	-.0668	-.1136	.0074	-.0023	.0017	.0066	.0127
144.000	.4954	.1062	-.0879	-.0955	-.0861	-.0483	.0984	.0686	.0266	-.0091	-.0395	.0011	-.0177	-.0071	.0135
162.000	.4802	.1047	-.0932	-.0966	-.0789	-.0623	-.0231	.0892	.0692	.0300	-.0200	-.0423	-.0340	-.0185	.0059
180.000	.4751	.1221	-.0939	-.0928	-.0811	-.0464	-.0400	.0191	.1254	.0527	-.0160	-.0488	-.0368	-.0198	.0088
198.000	.4802	.1047	-.0932	-.0966	-.0789	-.0623	-.0231	.0892	.0692	.0300	-.0200	-.0423	-.0340	-.0185	.0059
216.000	.4954	.1062	-.0879	-.0955	-.0861	-.0483	.0984	.0686	.0266	-.0091	-.0395	.0011	-.0177	-.0071	.0135
234.000	.4858	.1077	-.0955	-.0963	-.0687	-.0227	.1025	.1655	-.0668	-.1136	.0074	-.0023	.0017	.0066	.0127
252.000	.4684	.1033	-.0942	-.0984	-.0572	.0750	.5871	-.0644	-.1906	-.1290	-.0517	-.0370	.0097	.0082	.0021
270.000	.4506	.0889	-.0892	-.0922	-.0526	.3800	1.0328	-.0756	-.1386	-.0775	-.0259	-.0528	.0545	.0198	.0038
288.000	.4659	.1008	-.0903	-.0962	-.0511	.1172	.5793	.0560	-.1315	-.0280	-.0694	.0331	-.0189	.0282	.0038
306.000	.4895	.0991	-.0869	-.0921	-.0540	-.0119	.1236	.2161	.1315	-.0280	-.0694	.0331	-.0189	.0282	.0038
324.000	.4713	.1003	-.0878	-.0927	-.0530	-.0182	.1845	.2797	.3632	-.0504	-.1250	.0421	-.0064	.0101	.0037
342.000	.4621	.0912	-.0891	-.0952	-.0593	-.0235	.1995	.2855	.4093	-.1891	-.0232	.0048	.0417	.0349	.0587
360.000	.4702	.0928	-.0837	-.0882	-.0584	-.0206	.1975	.3072	9.9990	-.0814	.0677	.0161	-.0132	.0545	.0093
378.000									.4093						

X/LT .9116 .9836

PHI	.3137	-.1531	.2411	-.0871	.0779	.0757	.0338	.1944	.0379	.3253	.0873	-.0554	.0817	.0768	.108.000	.0817	.0768	.144.000	.0092	.0865	.162.000	.0142	.0451	.198.000	.0142	.0451	.216.000	.0052	.0865	.234.000	.0066	.1084	.252.000	.0817	.0768	.270.000	.0873	-.0554	.288.000	.0379	.3253	.306.000	.0338	.1944	.324.000	.0779	.0757	.342.000	.2411	-.0871	.360.000	.3137	-.1531
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TABULATED SOURCE DATA, MSFC TMT 56.1 (ASEF)

DATE 05 SEP 75

(R62T01)

MACH (8) = 1.860 ALPHA (5) = 2.000 Q = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.8676

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PH1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
18.000	.4171	.0764	-.1025	-.0988	-.0724	.0104	.1695	.2626	.3940	-.1774	.0225	-.0242	-.0253	.0534	-.0729
36.000	.4150	.0835	-.1043	-.0983	-.0648	-.0007	.1686	.2530	.3348	-.0687	-.1296	.0248	-.0139	.0184	.0974
54.000	.4087	.0968	-.1078	-.0936	-.0597	.0029	.1684	.2492	.3348	-.0430	-.1333	.0248	-.0060	.0244	.0007
72.000	.4118	.0756	-.1078	-.1014	-.0834	.0004	.2102	.1480	.0945	-.0430	.0198	-.0211	.0534	.0149	-.0004
90.000	.4344	.0839	-.0949	-.0971	-.0685	.1720	.4822	-.0994	-.1638	-.1630	.0198	-.0403	.0191	-.0241	.0112
108.000	.4401	.0963	-.0893	-.0878	-.0539	.3530	1.0216	-.0799	-.1138	-.1041	.0255	.0104	.0157	.0112	.0180
126.000	.4683	.1077	-.0823	-.0868	-.0487	.0640	.6617	-.0332	-.1479	-.1041	.0255	.0104	.0097	.0104	.0187
144.000	.4917	.1263	-.0809	-.0843	-.0635	.0009	.1603	.2188	-.0242	-.0741	.0195	.0244	.0097	.0104	.0187
162.000	.5147	.1434	-.0695	-.0843	-.0680	-.0431	.1349	.1190	.0440	.0323	-.0098	.0131	.0025	-.0038	.0187
180.000	.5350	.1473	-.0638	-.0717	-.0612	-.0427	-.0095	.0832	.1021	.0485	.0051	-.0196	-.0136	-.0053	.0074
198.000	.5472	.1499	-.0656	-.0747	-.0570	-.0272	-.0095	.0832	.1021	.0485	.0051	-.0196	-.0136	-.0053	.0074
216.000	.5350	.1473	-.0638	-.0717	.6:2	-.0427	-.0095	.0832	.1021	.0485	.0051	-.0196	-.0136	-.0053	.0074
234.000	.5147	.1434	-.0695	-.0843	-.0680	-.0431	.1349	.1190	.0440	.0323	-.0098	.0131	.0025	-.0038	.0187
252.000	.4917	.1263	-.0809	-.0843	-.0635	.0009	.1603	.2188	-.0242	-.0741	.0195	.0244	.0097	.0104	.0187
270.000	.4683	.1077	-.0823	-.0868	-.0487	.0640	.6617	-.0332	-.1479	-.1041	.0255	.0104	.0157	.0112	.0180
288.000	.4401	.0963	-.0893	-.0878	-.0539	.3530	1.0216	-.0799	-.1138	-.1041	.0255	.0104	.0157	.0112	.0180
306.000	.4344	.0839	-.0949	-.0971	-.0685	.1720	.4822	-.0994	-.1638	-.1630	.0198	-.0211	.0534	.0149	-.0004
324.000	.4118	.0756	-.1078	-.1014	-.0834	.0004	.2102	.1480	.0945	-.0430	.0198	-.0211	.0534	.0149	-.0004
342.000	.4087	.0866	-.1079	-.0936	-.0597	.0029	.1684	.2492	.3348	-.0687	-.1296	.0248	-.0139	.0184	.0974
360.000	.4150	.0835	-.1043	-.0983	-.0648	-.0007	.1686	.2530	.3348	-.0687	-.1296	.0248	-.0139	.0184	.0974
378.000	.4171	.0764	-.1025	-.0988	-.0724	.0104	.1695	.2626	.3940	-.1774	.0225	-.0242	-.0253	.0534	-.0729

X/LT .8116 .9836

PH1	.3347	-.1423
18.000	.2683	-.0702
36.000	.1328	.1072
54.000	.0718	.2477
72.000	.1016	.3863
90.000	.1788	-.0380
108.000	.1054	.0949
126.000	.0225	.1187
144.000	.0108	.0978
162.000	.0123	.0477
180.000	.0063	.0150
198.000	.0123	.0477
216.000	.0108	.0978
234.000	.0225	.1187
252.000	.1054	.0949
270.000	.1788	-.0380
288.000	.1016	.3863
306.000	.0718	.2477
324.000	.1328	.1072

NSFC 567(1A32F) T9 53/2 53/2 03 EXTERNAL TANK (R82T01)

MACH (6) = 1.960 ALPHA (5) = 2.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9636

PHI

342.000 .2683 -.0702
360.000 .3397 -.1453

MACH (6) = 1.960 ALPHA (6) = 5.000 Q = 10.290 PTA = 27.998 RL = 7.0966 PSA = 3.6676

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI

.000	.3393	.6447	-.0908	-.0699	-.0908	.0417	.1302	.2195	-.0373	.0511	-.0493	-.0665	.1583	.1192
18.000	.3343	.0440	-.1024	-.0877	-.0836	.0383	.1340	.2025	-.1367	.0285	-.0632	-.0301	.1454	.1057
36.000	.3546	.0345	-.1146	-.0925	-.0649	.0203	.1342	.1793	-.2824	-.0906	-.1270	.0165	-.0071	.0797
54.000	.3822	.0504	-.1192	-.1024	-.0787	.0063	.1943	.0621	.0504	-.1028	.0432	.0165	.0293	.0781
72.000	.4269	.0842	-.1077	-.1020	-.0674	.1742	.3693	-.1649	-.1318	-.1167	.0119	.0364	.0383	.0924
90.000	.4530	.1011	-.0918	-.0933	-.0575	.3758	1.0105	-.0730	-.0986	.0255	.0244	.0263	.0060	.0383
108.000	.4934	.1288	-.0645	-.0683	-.0668	.2050	.7807	.0345	-.0566	-.0996	.0353	.0557	.0375	.0278
126.000	.5318	.1564	-.0549	-.0502	-.0515	-.0067	.1700	.3119	.0330	-.0237	-.0090	.0503	.0352	.0151
144.000	.5690	.1822	-.0418	-.0459	-.0316	-.0260	.1946	.1491	.0669	.0967	.0360	.0116	.0300	.0135
162.000	.5849	.1998	-.0294	-.0294	-.0222	-.0128	-.0011	.1514	.1332	.0808	.0473	.0078	.0233	.0125
180.000	.5944	.2158	-.0128	-.0189	-.0234	.0036	.0055	.0651	.1841	.1039	.0564	.0214	-.0039	.0127
198.000	.5849	.1998	-.0294	-.0294	-.0222	-.0128	-.0011	.1614	.1332	.0808	.0473	.0078	.0233	.0125
216.000	.5690	.1822	-.0418	-.0459	-.0316	-.0260	.1946	.1491	.0669	.0967	.0360	.0116	.0300	.0135
234.000	.5318	.1564	-.0549	-.0502	-.0515	-.0067	.1700	.3118	.0330	-.0237	-.0090	.0503	.0353	.0191
252.000	.4934	.1288	-.0645	-.0683	-.0668	.2050	.7807	.0345	-.0566	-.0996	.0353	.0567	.0375	.0278
270.000	.4530	.1011	-.0918	-.0933	-.0575	.3758	1.0105	-.0730	-.0986	.0255	.0244	.0263	.0060	.0383
288.000	.4269	.0842	-.1077	-.1020	-.0674	.1742	.3693	-.1649	-.1318	-.1167	.0119	.0364	.0383	.0924
306.000	.3822	.0504	-.1152	-.1024	-.0787	.0063	.1943	.0621	.0504	-.1028	.0432	.0165	.0293	.0781
324.000	.3546	.0345	-.1146	-.0925	-.0649	.0203	.1342	.1793	-.2824	-.0906	-.1270	.0165	-.0071	.0797
342.000	.3343	.0440	-.1024	-.0877	-.0836	.0383	.1340	.2025	.2586	-.1367	.0285	-.0632	-.0301	.1454
360.000	.3393	.0447	-.0908	-.0699	-.0908	.0417	.1302	.2195	.2586	-.1367	.0285	-.0632	-.0301	.1454
378.000	.9116	.9636							.2586					

X/LT .9116 .9636

PHI

.000 .3542 -.1600
18.000 .3077 -.0577
36.000 .2506 .1311
54.000 .2025 .2510
72.000 .2042 .3055
90.000 .2079 .1522
108.000 .1011 .1986
126.000 .0334 .1421
144.000 .0161 .0902

NSFC 567(1A32F) T8 53/2 53/2 03 EXTERNAL TANK (R82701)

MACH (6) = 1.800 ALPHA (6) = 5.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.9838
PHI		
182.000	.0131	.0345
180.000	.0142	.0185
198.000	.0131	.0345
218.000	.0181	.0902
234.000	.0334	.1421
252.000	.1011	.1888
270.000	.2079	.1522
288.000	.2042	.3055
306.000	.2025	.2510
324.000	.2506	.1311
342.000	.3077	-.0677
360.000	.3942	-.1800

MACH (6) = 1.800 ALPHA (7) = 8.000 Q = 10.200 PTA = 27.086 RL = 7.0986 PSA = 3.8676

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1250	.8803	.2347	.2707	.3139	.3499	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.9438
PHI															
18.000	.2978	-.0048	-.0631	-.0682	-.0767	.0131	.0744	.760	.1588	-.0124	.0120	-.0953	.1191	.1436	.1943
36.000	.2951	-.0023	-.0625	-.0676	-.0761	.0127	.0699	.1509	.2316	-.1192	-.1078	-.0187	.0456	.1014	.1180
54.000	.3188	.0088	-.0763	-.0797	-.0878	.0060	.0767	.1082	-.0766	.1943	-.0564	.0150	.0159	.0883	.1128
72.000	.3604	.0330	-.0939	-.0987	-.0909	.0210	.1002	-.0589	-.1842	-.1526	-.0256	.0346	.0195	.0737	.1050
90.000	.4034	.0511	-.1188	-.1011	-.0942	.1601	.2026	-.2278	-.1842	-.0847	-.0493	-.0264	-.0147	.0010	.0586
108.000	.4334	.0918	-.0949	-.0983	-.0886	.4184	.9735	-.0678	.0451	-.0527	.0748	.0752	.0579	.0481	.0488
126.000	.5061	.1457	-.0693	-.0727	-.0640	.2395	.8873	.0928	.1087	.0361	.0281	.0777	.0552	.0420	.0458
144.000	.5624	.1858	-.0384	-.0353	-.0338	.0782	.1817	.3153	.0733	.1283	.0695	.0473	.0522	.0364	.0447
162.000	.8524	.2330	-.0068	-.0087	-.0007	.0059	.2356	.1942	.1835	.1278	.0958	.0458	.0360	.0372	.0439
180.000	.6915	.2707	.0142	.0071	.0259	.0188	.0338	.1981	.2128	.1472	.1050	.0635	.0376	.0462	.0451
198.000	.6915	.2707	.0142	.0071	.0259	.0188	.0338	.1981	.1835	.1278	.0958	.0458	.0360	.0372	.0439
216.000	.6524	.2330	-.0068	-.0087	-.0007	.0059	.2356	.1942	.1835	.1278	.0958	.0458	.0360	.0372	.0439
234.000	.5824	.1858	-.0384	-.0353	-.0338	.0782	.1817	.3153	.1087	.0361	.0281	.0777	.0552	.0420	.0458
252.000	.5061	.1457	-.0693	-.0727	-.0640	.2395	.8873	.0928	.0451	-.0527	.0748	.0752	.0579	.0481	.0488
270.000	.4334	.0918	-.0949	-.0983	-.0886	.4184	.9735	-.0678	-.0847	-.0493	-.0264	-.0147	.0010	.0586	.1050
288.000	.4034	.0511	-.1188	-.1011	-.0942	.1601	.2026	-.2278	.1842	-.1526	-.0256	.0346	.0195	.0737	.1050
306.000	.3604	.0330	-.0939	-.0987	-.0909	.0210	.1002	-.0589	.1842	-.1526	-.0256	.0346	.0195	.0737	.1050
324.000	.3188	.0088	-.0763	-.0797	-.0878	.0060	.0767	.1082	.2128	.1472	.1050	.0635	.0376	.0462	.0451
342.000	.2951	-.0023	-.0625	-.0676	-.0761	.0127	.0699	.1509	.0451	-.0527	.0748	.0752	.0579	.0481	.0488
360.000	.2978	-.0048	-.0631	-.0682	-.0767	.0131	.0744	.760	-.0847	-.0493	-.0264	-.0147	.0010	.0586	.1050
378.000									.1842	-.1526	-.0256	.0346	.0195	.0737	.1050
									.1842	-.1526	-.0256	.0346	.0195	.0737	.1050
									.0766	-.1543	-.0554	.0150	.0150	.0893	.1128
									.2316	-.1192	-.1078	-.0187	.0456	.1014	.1180
									.1588	-.0979	-.0128	-.0766	.1044	.1320	.1648
									9.9990	-.0124	.0120	-.0953	.1191	.1436	.1943
									.1588						

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(R82101)

MSFC 567(1A32F) T9 53/2 53/2 03 EXTERNAL TANK

MACH (6) = 1.060 ALPHA (7) = 8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	PHI
.9116	.9838
.3462	-.1466
18.000	.3125
36.000	.2862
54.000	.2681
72.000	.2739
90.000	.2714
108.000	.1004
126.000	.0473
144.000	.0338
162.000	.0372
180.000	.0425
198.000	.0372
216.000	.0338
234.000	.0473
252.000	.1004
270.000	.2714
288.000	.2739
306.000	.2681
324.000	.2862
342.000	.3125
360.000	.3462

MACH (7) = 2.960 ALPHA (1) = -8.000 0 = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	PHI	PTA	RL	PSA
.0757	.1950	.2203	.2347	.2707
.0485	.0485	.0448	.0441	.2581
.0377	.0370	.0366	.0355	.2456
.0258	.0240	.0240	.0223	.2320
.0078	.0083	.0344	.1241	.0857
-.0120	-.0080	.0422	.4095	.2473
-.0319	-.0125	.2480	.5831	.1681
-.0309	-.0082	.1839	-.0116	-.0935
-.0443	-.0443	.0298	.0244	-.0771
-.0447	-.0447	-.0179	-.0589	-.0488
-.0492	-.0440	-.0352	-.0352	-.0332
-.0503	-.0447	-.0242	.0047	-.0085
-.0492	-.0440	-.0355	-.0355	-.0332
-.0495	-.0447	-.0179	-.0589	-.0488
-.0577	-.0443	-.0299	.0244	-.0771
-.0434	-.0434	-.0082	.1839	-.0115
-.0319	-.0319	.2480	.5831	.1681
.0425	.2413	.0567	.0485	.0485
.6217	.2331	.0470	.0377	.0370
.5897	.2182	.0325	.0258	.0240
.5278	.1818	.0143	.0078	.0083
.4680	.1442	-.0033	-.0120	-.0080
.3957	.1045	-.0244	-.0319	-.0125
.3452	.0737	-.0406	-.0443	-.0309
.2975	.0476	-.0544	-.0577	-.0443
.2685	.0286	-.0630	-.0641	-.0495
.2513	.0208	-.0674	-.0644	-.0492
.192.000	.0181	-.0674	-.0644	-.0503
.198.000	.0208	-.0674	-.0644	-.0492
.215.000	.0286	-.0530	-.0541	-.0495
.234.000	.2975	-.0544	-.0577	-.0443
.252.000	.3452	-.0406	-.0434	-.0319
.270.000	.3957	-.0244	-.0319	-.0125
.0169	.0554	.0169	.0554	.1657
-.0176	.0520	-.0176	.0520	.1306
.1035	.0135	.1035	.0135	.1093
.1907	.0498	.1907	.0498	.0748
.0426	.1746	.0426	.1746	.0628
-.0345	.0353	-.0345	.0353	-.0633
-.0790	-.0558	-.0790	-.0558	-.0272
-.0957	-.0883	-.0957	-.0883	-.0529
-.0821	-.0756	-.0821	-.0756	-.0667
-.0272	-.0432	-.0272	-.0432	-.0529
-.0324	-.0503	-.0324	-.0503	-.0454
-.0451	-.0629	-.0451	-.0629	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0657	-.0853	-.0657	-.0853	-.0324
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0324	-.0503	-.0454
-.0492	-.0659	-.0492	-.0659	-.0454
-.0529	-.0629	-.0529	-.0629	-.0454
-.0324	-.0503	-.0		

TABLULATED SOURCE DATA, HFSC TMT 567 (1A32F)

DATE 05 SEP 75

(R82T01)

HFSC 567(1A32F, T9 S3/2 S3/2 03 EXTERNAL TANK

MACH (7) = 2.988 ALPHA (1) = -0.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2397	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7065	.7762	.8439
PHI	.4680	.1442	-.0053	-.0120	-.0080	.0422	.4095	.2473	.1170	.0426	.1746	.0628	.0196	.0614	.0733
288.000	.5279	.1818	.0143	.0076	-.0083	.0344	.1241	.0857	.3418	.1907	.0498	.0744	.0748	.0483	.0677
306.000	.5887	.2182	.0325	.0258	.0240	.0623	.0623	.2320	.2517	.1036	.0135	.1093	.1234	.0720	.0597
324.000	.6217	.2331	.0470	.0377	.0370	.0366	.0325	.2458	.2409	-.0176	.0520	.1306	.1195	.1120	.0751
342.000	.6425	.2413	.0567	.0485	.0485	.0448	.0441	.2581	9.9990	.0169	.0554	.1657	.1381	.1213	.0919
360.000									.9409						
378.000															

X/LT .9118 .9636

PHI

.000	.0904	-.0935
18.000	.0450	-.0250
36.000	.0513	.1012
54.000	.0621	.1373
72.000	.0682	.0271
90.000	.0747	-.0495
108.000	-.0108	-.0451
126.000	-.0104	-.0179
144.000	-.0257	-.0056
162.000	-.0391	-.0216
180.000	-.0468	-.0261
198.000	-.0381	-.0218
216.000	-.0257	-.0056
234.000	-.0104	-.0179
252.000	-.0108	-.0451
270.000	.0047	-.0495
288.000	.0682	.0271
306.000	.0621	.1373
324.000	.0513	.1012
342.000	.0450	-.0250
360.000	.0904	-.0935

MACH (7) = 2.988 ALPHA (2) = -5.000 Q = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .8297

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2397	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7065	.7762	.8439
PHI	.5620	.1860	.0287	.0237	.0245	.0204	.0283	.2137	.4330	-.0034	.0463	.1313	.1070	.0608	.0518
18.000	.5443	.1818	.0185	.0084	.0147	.0094	.0277	.2052	.2085	-.0266	.0284	.1070	.0609	.0578	.0369
36.000	.5259	.1750	.0085	.0006	.0014	.0032	.0554	.1958	.2085	.1027	-.0025	.0496	.0929	.0412	.0299
54.000	.4858	.1520	-.0042	-.0102	-.0083	.0176	.0861	.0813	.2949	.1427	.0060	.0395	.0526	.0295	.0232
72.000	.4510	.1317	-.0153	-.0216	-.0164	.0257	.3767	.1871	.0548	-.0007	.1096	.0533	.0111	.0321	.0520
90.000	.4021	.1051	-.0295	-.0355	-.0214	.2354	.5830	.1632	-.0757	-.0011	.0011	-.0234	-.0647	-.0226	-.0111

(R82701)

MACH (7) = 2.900 ALPHA (3) = -2.000 0 = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) INTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2947	.2707	.3139	.3499	.3815	.4378	.5055	.5732	.6408	.7085	.7762	.8439
Phi															
.000	.4789	.1315	.0102	.0054	.0065	.0043	.0405	.1453	-.0117	.0479	.1022	.0744	.0249	-.0211	
18.000	.4657	.1266	-.0047	-.0114	-.0073	-.0043	.0414	.1406	-.0286	.0107	.0774	.0463	.0189	.0159	
36.000	.4612	.1290	-.0122	-.0178	-.0174	-.0010	.0649	.1506	.1762	.0854	-.0181	.0105	.0448	-.0351	
54.000	.4431	.1218	-.0173	-.0236	-.0225	.0036	.0718	.0919	.1987	.0968	-.0235	-.0089	.0301	.0122	
72.000	.4309	.1135	-.0235	-.0305	-.0246	.0114	.3221	.1407	-.0007	-.0231	.0379	.0369	.0382	.0315	
90.000	.4078	.1033	-.0313	-.0365	-.0216	.2048	.6320	.1608	-.0828	-.0395	-.0432	-.0515	-.0279	-.0297	
108.000	.3969	.0958	-.0377	-.0411	-.0273	-.0035	.2741	.0709	-.0820	-.0895	-.0828	-.0492	-.0251	-.0260	
126.000	.3806	.0856	-.0384	-.0447	-.0376	-.0209	.0148	.0208	-.0116	-.0760	-.0443	-.0425	.0345	-.0139	
144.000	.3824	.0818	-.0425	-.0481	-.0458	-.0283	.0003	-.0104	-.0410	-.0250	-.0383	-.0257	.0329	-.0329	
162.000	.3705	.0807	-.0454	-.0503	-.0492	-.0365	-.0227	-.0134	-.0241	-.0149	-.0294	-.0319	.0395	-.0429	
180.000	.3732	.0779	-.0454	-.0502	-.0502	-.0409	-.0275	-.0140	-.0276	-.0295	.0044	-.0160	-.0324	-.0425	
198.000	.3705	.0807	-.0454	-.0503	-.0492	-.0365	-.0227	-.0134	-.0041	-.0149	-.0040	-.0224	-.0319	.0396	
216.000	.3824	.0818	-.0425	-.0481	-.0458	-.0263	.0303	-.0104	-.0410	-.0250	-.0383	-.0405	-.0267	-.0328	
234.000	.3806	.0856	-.0384	-.0447	-.0376	-.0209	.0148	.0208	-.0116	-.0760	-.0790	-.0443	-.0425	-.0139	
252.000	.3959	.0958	-.0370	-.0411	-.0273	-.0035	.2741	.0703	-.0820	-.0895	-.0828	-.0492	.0361	-.0260	
270.000	.4078	.1035	-.0313	-.0365	-.0216	.2048	.6320	.1608	-.0828	-.0395	-.0432	-.0515	-.0279	-.0297	
288.000	.4309	.1135	-.0235	-.0305	-.0246	.0114	.3221	.1407	-.0007	-.0231	.0379	.0369	.0382	.0315	
306.000	.4512	.1218	-.0173	-.0236	-.0225	.0058	.0718	.0919	.1987	.0968	-.0235	-.0089	.0301	.0122	
324.000	.4657	.1286	-.0122	-.0178	-.0174	-.0010	.0649	.1505	.1762	.0854	-.0181	.0105	.0448	-.0351	
342.000	.4789	.1315	-.0102	-.0054	-.0065	.0043	.0405	.1453	-.0007	-.0231	.0379	.0369	.0382	.0315	
360.000															
378.000															

X/LT .9116 .9636

Phi	
.000	.0532
18.000	-.0224
36.000	.0047
54.000	.0234
72.000	.0204
90.000	.0267
108.000	.0163
126.000	.0018
144.000	-.0219
162.000	-.0372
180.000	-.0380
198.000	-.0372
216.000	-.0219
234.000	.0018
252.000	.0163
270.000	.0267
288.000	.0204
306.000	.0234
324.000	.0047

TABLATED SOURCE DATA, NSFC TMT 567 (1A32F)

DATE 05 SEP 75

(R62T01)

EXTERNAL TANK

NSFC 567(1A32F) T9 S3/2 S3/2 03

EXTERNAL TANK

MACH (7) = 2.990 ALPHA (3) = -2.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9636

PHI

342.000 -.0200 -.0224

360.000 .0532 -.1006

MACH (7) = 2.990 ALPHA (4) = .000 Q = 5.1694 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1950 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI

.000 .4187 .0943 -.0051 .0011 .0168 .0179 .0716 .0727 .0668 .0657 .0668 .0371 -.0041 -.0360

18.000 .4130 .0923 -.0205 -.0188 -.0056 .0088 .0684 .0967 .0967 .0487 .0487 .0193 -.0093 -.0211

36.000 .4145 .0994 .0291 -.0238 -.0160 .0081 .0751 .1183 .1183 .1578 .1578 .0085 -.0019 -.0160

54.000 .4074 .1001 -.0332 -.0283 -.0153 .0100 .0759 .0729 .1508 .1508 .0636 .0451 -.0365 .0015 .0021

72.000 .4152 .0990 .0346 -.0309 -.0116 .0081 .3005 .1038 .0272 .0272 .0111 -.0101 .0032 .0211

90.000 .4089 .0986 .0380 .0324 .0104 .1984 .6324 .1563 .0642 .0610 .0577 .0532 .0282 .0133

108.000 .4119 .1042 .0410 .0358 .0183 .0129 .2901 .1042 .0663 .0610 .0566 .0518 .0380 .0224 .0005

126.000 .4083 .1003 .0386 .0353 .0267 .0077 .0220 .0220 .0194 .0610 .0678 .0324 .0235 .0261 .0057

144.000 .4299 .1018 .0386 .0353 .0319 .0152 .0168 .0071 .0383 .0047 .0185 .0204 .0204 .0204 .0207

162.000 .4190 .1035 .0399 .0361 .0334 .0316 .0293 .0129 .0377 .0040 .0178 .0071 .0197 .0332 .0273

180.000 .4224 .1126 .0386 .0353 .0334 .0316 .0293 .0129 .0377 .0040 .0178 .0071 .0197 .0332 .0273

198.000 .4190 .1035 .0399 .0361 .0334 .0316 .0293 .0129 .0377 .0040 .0178 .0071 .0197 .0332 .0273

216.000 .4299 .1018 .0386 .0353 .0319 .0152 .0168 .0071 .0383 .0047 .0185 .0204 .0204 .0204 .0207

234.000 .4083 .1003 .0386 .0353 .0319 .0152 .0168 .0071 .0383 .0047 .0185 .0204 .0204 .0204 .0207

252.000 .4119 .1042 .0410 .0358 .0183 .0129 .2901 .1042 .0663 .0610 .0566 .0518 .0380 .0224 .0005

270.000 .4089 .0986 .0380 .0324 .0104 .1984 .6324 .1563 .0642 .0610 .0577 .0532 .0282 .0133

288.000 .4152 .0990 .0346 -.0309 -.0116 .0081 .3005 .1038 .0272 .0272 .0111 .0101 .0032 .0211

306.000 .4074 .1001 .0332 .0283 .0153 .0100 .0759 .0729 .1508 .1508 .0636 .0451 .0365 .0015 .0021

324.000 .4145 .0994 .0291 .0238 .0160 .0081 .0751 .1183 .1578 .1578 .0643 .0302 .0145 .0085 .0160

342.000 .4130 .0953 .0205 .0168 .0056 .0088 .0694 .0527 .2409 .2409 .0261 .0010 .0487 .0193 .0093 .0211

360.000 .4187 .0943 .0051 .0011 .0168 .0179 .0716 .0727 .9.9990 .9.9990 .0010 .0297 .0668 .0371 .0041 .0360

378.000

X/LT .9116 .9636

PHI

.000 .0405 -.1043

18.000 .0161 -.0171

36.000 -.0007 .0640

54.000 .0170 .0871

72.000 .0129 .0055

90.000 .0272 -.0226

108.000 .0215 .0066

126.000 .0059 .0234

144.000 -.0137 .0023

ORIGINAL PAGE IS OF POOR QUALITY

DATE 05 SEP 75

MSFC 567(1A32F)

EXTERNAL TANK

MSFC 567(1A32F) T9 S3/2 S3/2 03

MSFC 567(1A32F)

MACH (7) = 2.990 ALPHA (5) = 2.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI	.000	.0614	-.0824
18.000	.0491	-.0048	
36.000	.0081	.0628	
54.000	.0073	.0915	
72.000	.0014	.0144	
90.000	.0293	-.0108	
108.000	.0249	.0204	
126.000	.0107	.0241	
144.000	-.0030	.0062	
162.000	-.0123	-.0057	
180.000	-.0116	-.0093	
198.000	-.0123	-.0097	
216.000	-.0030	.0062	
234.000	.0107	.0241	
252.000	.0249	.0204	
270.000	.0293	-.0108	
288.000	.0014	.0144	
306.000	.0073	.0915	
324.000	.0081	.0628	
342.000	.0491	-.0048	
360.000	.0614	-.0824	

MACH (7) = 2.990 ALPHA (6) = 5.000 Q = 5.1894

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.0484	-.0097	-.0063	.0010	.0167	.0252	.0472	-.0063	.0420	.0327	-.0119	-.0458	-.0342
18.000	.2983	.0435	-.0220	-.0175	-.0101	.0088	.0230	.0338	.1567	.0313	.0250	-.0201	-.0454	-.0114
36.000	.3188	.0500	-.0267	-.0189	-.0137	.0049	.0209	.0444	.1946	.0295	-.0590	-.0280	-.0149	-.0101
54.000	.3351	.0614	-.0350	-.0197	-.0142	-.0007	.0163	.0018	.0077	-.0261	-.0718	-.0260	.0090	-.0062
72.000	.3713	.0774	-.0391	-.0250	-.0142	-.0127	.2584	.0159	-.0771	-.0801	-.0514	-.0145	.0189	.0222
90.000	.4033	.0906	-.0354	-.0390	-.0134	.1984	.6581	.1515	-.0864	-.0394	-.0111	.0026	.0258	.0067
108.000	.4469	.1228	-.0246	-.0309	-.0153	.0237	.3243	.1952	.0055	-.0611	-.0373	-.0045	.0081	.0234
126.000	.4795	.1443	-.0112	-.0211	-.0174	.0123	.0724	.0369	.1048	-.0006	-.0261	-.0123	.0051	.0111
144.000	.5337	.1634	-.0011	-.0112	-.0108	-.0056	.0424	.0710	.0245	.0155	.0312	.0163	.0000	.0010
162.000	.5492	.1786	.0056	-.0040	-.0040	-.0036	.0030	.0209	.0578	.0533	.0424	.0256	.0100	-.0072
180.000	.5568	.1809	.0092	-.0000	-.0007	-.0011	.0000	.0000	.0513	.0826	.0606	.0357	.0103	-.0019
198.000	.5492	.1786	.0056	-.0040	-.0040	-.0036	.0030	.0209	.0578	.0533	.0424	.0256	.0100	-.0072
216.000	.5337	.1634	-.0011	-.0112	-.0108	-.0056	.0424	.0710	.0245	.0155	.0312	.0163	.0000	.0010
234.000	.4795	.1443	-.0112	-.0211	-.0174	.0123	.0724	.0369	.1048	-.0006	-.0261	-.0123	.0051	.0111
252.000	.4469	.1228	-.0246	-.0309	-.0153	.0237	.3243	.1952	.0055	-.0611	-.0373	-.0045	.0081	.0234
270.000	.4033	.0906	-.0354	-.0390	-.0134	.1984	.6581	.1515	-.0864	-.0394	-.0111	.0026	.0258	.0067

PSA = .82971

(R62T01)

MACH (7) = 2.980 ALPHA (6) = 5.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.3713	.0774	-.0391	-.0250	-.0142	-.0127	.2584	.0159	-.0771	-.0801	-.0514	-.0145	.0188	.0222	-.0007
208.000	.3351	.0814	-.0350	-.0187	-.0142	-.0007	.0183	.0018	.0077	-.0261	-.0718	-.0260	.0080	.0097	-.0082
308.000	.3188	.0500	-.0287	-.0189	-.0137	.0048	.0208	.0444	.1848	.0285	-.0580	-.0288	-.0280	-.0149	-.0101
324.000	.2983	.0435	-.0220	-.0175	-.0101	.0088	.0230	.0338	.1967	-.0313	.0250	.0193	-.0201	-.0454	-.0114
342.000	.3035	.0484	-.0087	-.0083	.0010	.0167	.0252	.0472	9.9890	-.0053	.0420	.0327	-.0119	-.0458	-.0342
378.000							.1567								

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.9116	.9836
PHI	.1377	-.0659
18.000	.1224	.0006
36.000	.0463	.0697
54.000	.0108	.0521
72.000	.0178	.0479
90.000	.0291	.0541
108.000	.0111	.0625
126.000	.0148	.0401
144.000	.0003	.0018
162.000	-.0045	.0000
180.000	-.0056	-.0022
198.000	-.0045	.0000
216.000	.0003	.0018
234.000	.0148	.0401
252.000	.0111	.0625
270.000	.0291	.0541
288.000	.0178	.0479
306.000	.0108	.0521
324.000	.0463	.0697
342.000	.1224	.0006
360.000	.1377	-.0659

MACH (7) = 2.980 ALPHA (7) = 8.000 Q = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.2378	.0255	-.0012	-.0042	-.0005	.0061	.0058	.0457	.1099	-.0053	.0203	.0002	-.0337	-.0486	-.0046
18.000	.2397	.0188	-.0147	-.0165	-.0091	-.0046	-.0009	.0214	.1099	-.0053	.0203	-.0094	-.0337	-.0360	-.0463
36.000	.2547	.0248	-.0147	-.0158	-.0147	-.0098	-.0061	.0248	.1009	-.0326	-.0606	-.0378	-.0255	-.0300	-.0072
54.000	.2931	.0390	-.0147	-.0147	-.0135	-.0094	-.0132	-.0128	.0054	-.0729	-.0737	-.0349	-.0125	-.0137	-.0043
72.000	.3460	.0632	-.0281	-.0184	-.0165	-.0109	-.0239	-.0247	-.0676	-.0744	-.0733	-.0394	-.0092	-.0062	-.0107
90.000	.3987	.0975	-.0322	-.0329	-.0120	.2281	.6762	.1591	-.0479	-.0341	-.0359	-.0203	-.0235	-.0169	

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(RB2T01)

MACH (8) = 3.500 ALPHA (1) = -8.000 Q = 9.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.2500	.0697	.0812	.0582	.0552	.0518	.2503	.5017	.0294	.0535	.1367	.1441	.1100	.1096
18.000	.6448	.2392	.0585	.0494	.0470	.0457	.0436	.2328	.2094	.1181	.0413	.1110	.1198	.1106	.0961
36.000	.5863	.2202	.0443	.0379	.0349	.0335	.0343	.2098	.2094	.1181	.0301	.0771	.1279	.0876	.0761
54.000	.5227	.1894	.0281	.0213	.0200	.0399	.1039	.1056	.2970	.2162	.0606	.0863	.0785	.0629	.0589
72.000	.4638	.1472	.0102	.0041	.0037	.0440	.2967	.2676	.1303	.0555	.1668	.0994	.0328	.0426	.0704
90.000	.3924	.1086	-.0097	-.0138	-.0023	.2077	.7186	.2121	.1303	-.0280	.0599	.0091	-.0307	-.0303	-.0067
108.000	.3400	.0785	-.0236	-.0280	-.0171	-.0080	.1675	.0274	-.0625	-.0486	-.0760	-.0686	-.0540	-.0412	-.0341
126.000	.2916	.0521	-.0347	-.0388	-.0280	-.0280	-.0219	.0122	-.0496	-.0645	-.0736	-.0659	-.0517	-.0361	-.0222
144.000	.2622	.0355	-.0408	-.0422	-.0317	-.0266	-.0131	-.0378	-.0330	-.0520	-.0537	-.0540	-.0567	-.0408	-.0286
162.000	.2441	.0273	-.0449	-.0426	-.0324	-.0273	-.0267	-.0270	-.0267	-.0195	-.0266	-.0337	-.0297	-.0344	-.0327
180.000	.2365	.0237	-.0594	-.0429	-.0330	-.0280	-.0303	-.0192	-.0006	-.0158	-.0003	-.0165	-.0317	-.0337	-.0341
198.000	.2441	.0273	-.0449	-.0426	-.0324	-.0273	-.0267	-.0270	-.0267	-.0195	-.0266	-.0337	-.0297	-.0344	-.0327
216.000	.2622	.0355	-.0408	-.0422	-.0317	-.0266	-.0131	-.0378	-.0330	-.0520	-.0537	-.0540	-.0567	-.0408	-.0286
234.000	.2916	.0521	-.0347	-.0388	-.0280	-.0280	-.0219	.0122	-.0496	-.0645	-.0736	-.0659	-.0517	-.0361	-.0222
252.000	.3400	.0785	-.0236	-.0280	-.0171	-.0080	.1675	.0274	-.0625	-.0486	-.0760	-.0686	-.0540	-.0412	-.0341
270.000	.3924	.1086	-.0097	-.0138	-.0023	.2077	.7186	.2121	.1303	-.0280	.0599	.0091	-.0307	-.0303	-.0067
288.000	.4638	.1472	.0102	.0041	.0037	.0440	.2967	.2676	.1303	.0555	.1668	.0994	.0328	.0426	.0704
306.000	.5227	.1894	.0281	.0213	.0200	.0399	.1039	.1056	.2970	.2162	.0606	.0863	.0785	.0629	.0589
324.000	.5863	.2202	.0443	.0379	.0349	.0335	.0343	.2098	.2094	.1181	.0301	.0771	.1279	.0876	.0761
342.000	.6448	.2500	.0697	.0812	.0582	.0552	.0518	.2503	.5017	.0294	.0535	.1367	.1441	.1100	.1096
360.000	.6448	.2500	.0697	.0812	.0582	.0552	.0518	.2503	9.9990	.0294	.0535	.1367	.1441	.1100	.1096
378.000	.9116	.9836							.5017						

SECTION (2) EXTERNAL TANK

X/LT	.9116	.9836
PHI	.000	.0594
18.000	.1242	.0176
36.000	.0643	.1045
54.000	.0714	.1570
72.000	.0778	.0531
90.000	.0186	-.0256
108.000	-.0192	-.0435
126.000	-.0023	-.0138
144.000	-.0205	-.0012
162.000	-.0341	-.0195
180.000	-.0391	-.0310
198.000	-.0341	-.0195
216.000	-.0205	-.0012
234.000	-.0023	-.0138
252.000	-.0192	-.0435
270.000	.0186	-.0256
288.000	.0778	.0531
306.000	.0714	.1570
324.000	.0643	.1045

TABULATED SOURCE DATA, MSFC INT 567 (1A32F)

DATE 05 SEP 78

(R827011)

EXTERNAL TANK

MACH (8) = 3.500 ALPHA (1) = -0.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .0727 .0178
360.000 .1242 -.0594

MACH (8) = 3.500 ALPHA (2) = -5.000 Q = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7071 .7762 .8439

PHI
.000 .9958 .1930 .0441 .0387 .0393 .0343 .0444 .1876
18.000 .5399 .1868 .0322 .0255 .0261 .0238 .0434 .1811
36.000 .5213 .1776 .0227 .0173 .0162 .0183 .0605 .1722
54.000 .4807 .1560 .0118 .0071 .0075 .0281 .0805 .1093
72.000 .4462 .1340 .0000 .0043 .0016 .0291 .2696 .2287
90.000 .3985 .1100 .0117 .0161 .0073 .1898 .5840 .2111
108.000 .3664 .0917 .0215 .0246 .0171 .0012 .1949 .0618
126.000 .3359 .0717 .0300 .0317 .0256 .0182 .0083 .0284
144.000 .3199 .0620 .0327 .0367 .0320 .0208 .0007 .0164
162.000 .3028 .0548 .0385 .0408 .0337 .0222 .0014 .0168
180.000 .2984 .0528 .0378 .0418 .0347 .0222 .0199 .0127
198.000 .3028 .0548 .0385 .0408 .0337 .0222 .0014 .0168
216.000 .3199 .0620 .0327 .0367 .0320 .0208 .0007 .0164
234.000 .3684 .0917 .0215 .0246 .0171 .0012 .1949 .0618
252.000 .3985 .1100 .0117 .0161 .0073 .1898 .5840 .2111
270.000 .4462 .1340 .0000 .0043 .0016 .0291 .2696 .2287
288.000 .4807 .1560 .0118 .0071 .0075 .0281 .0805 .1093
306.000 .5213 .1776 .0227 .0173 .0162 .0183 .0605 .1722
324.000 .5399 .1868 .0322 .0255 .0261 .0238 .0434 .1811
360.000 .5558 .1930 .0441 .0387 .0393 .0343 .0444 .1876
378.000 .5732 .2077 .5055 .5732 .6408 .7071 .7762 .8439

X/LT .9116 .9836

PHI
.000 .0883 -.0632
18.000 .0487 -.0063
36.000 .0342 .0842
54.000 .0501 .1238
72.000 .0228 .0254
90.000 .0291 -.0205
108.000 .0244 -.0104
126.000 .0000 -.0067
144.000 -.0199 .0118

ORIGINAL PAGE IS
OF FOUR QUALITY

DATE 05 SEP 75

MACH (8) = 3.500 ALPHA (2) = -5.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.9118	.8836
PHI		
162.000	-.0314	-.0195
180.000	-.0300	-.0290
198.000	-.0314	-.0195
216.000	-.0199	.0118
234.000	.0000	-.0067
252.000	.0244	-.0104
270.000	.0291	-.0205
288.000	.0528	.0294
306.000	.0501	.1238
324.000	.0342	.0842
342.000	.0497	-.0063
360.000	.0883	-.0632

MACH (8) = 3.500 ALPHA (3) = -2.000 Q = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
162.000	.4726	.1371	.0309	.0238	.0244	.0241	.0519	.1223	.2942	.0046	.0453	.0856	.0880	.0497	.0122
180.000	.4584	.1344	.0153	.0072	.0119	.0156	.0495	.1209	.1438	-.0046	.0112	.0700	.0636	.0345	.0234
198.000	.4547	.1350	.0075	.0003	.0003	.0169	.0643	.1296	.1783	.1045	.0075	.0081	.0315	.0372	.0081
216.000	.4344	.1269	-.0009	-.0056	-.0050	.0159	.0694	.1025	.1763	.1150	.0024	-.0080	.0338	.0254	.0078
234.000	.4246	.1160	-.0056	-.0121	-.0087	.0160	.2382	.1795	.0217	-.0026	.0169	.0511	.0088	.0020	.0264
252.000	.4009	.1069	-.0114	-.0182	-.0073	.1482	.6722	.1972	.0527	-.0588	-.0286	-.0202	-.0395	-.0330	-.0097
270.000	.3901	.1005	-.0178	-.0229	-.0138	.0034	.2395	.1052	.0091	-.0513	-.0584	-.0635	-.0439	-.0303	-.0094
288.000	.3745	.0897	-.0205	-.0263	-.0222	-.0107	.0149	-.0035	.0091	-.0513	-.0584	-.0635	-.0439	-.0303	-.0094
306.000	.3795	.0870	-.0236	-.0300	-.0300	-.0171	.0024	-.0107	-.0266	-.0171	-.0266	-.0320	-.0205	-.0209	-.0249
324.000	.3650	.0853	-.0253	-.0320	-.0334	-.0209	.0037	-.0077	-.0050	-.0151	.0014	.0020	-.0165	-.0256	-.0263
342.000	.3667	.0819	-.0259	-.0337	-.0347	-.0236	-.0141	-.0057	.0196	.0284	.0129	-.0087	-.0175	-.0263	-.0300
360.000	.3650	.0853	-.0253	-.0320	-.0300	-.0171	.0024	-.0107	-.0266	-.0171	-.0266	-.0320	-.0205	-.0209	-.0249
378.000	.3755	.0870	-.0236	-.0300	-.0300	-.0171	.0024	-.0107	-.0266	-.0171	-.0266	-.0320	-.0205	-.0209	-.0249
PHI															
234.000	.3745	.0897	-.0205	-.0263	-.0222	-.0107	.0149	-.0035	.0091	-.0513	-.0584	-.0635	-.0439	-.0303	-.0094
252.000	.3901	.1005	-.0178	-.0229	-.0138	.0034	.2395	.1052	.0091	-.0513	-.0584	-.0635	-.0439	-.0303	-.0094
270.000	.4009	.1069	-.0114	-.0182	-.0073	.1482	.6722	.1972	.0527	-.0588	-.0286	-.0202	-.0395	-.0330	-.0097
288.000	.4246	.1160	-.0056	-.0121	-.0087	.0160	.2382	.1795	.0217	-.0026	.0169	.0511	.0088	.0020	.0264
306.000	.4344	.1269	-.0009	-.0056	-.0050	.0159	.0694	.1025	.1763	.1150	.0024	-.0080	.0338	.0254	.0078
324.000	.4547	.1350	.0075	.0003	.0003	.0169	.0643	.1296	.1783	.1045	.0075	.0081	.0315	.0372	.0081
342.000	.4584	.1344	.0153	.0072	.0119	.0156	.0495	.1209	.1438	.1045	.0075	.0081	.0315	.0372	.0081
360.000	.4726	.1371	.0309	.0238	.0244	.0241	.0519	.1223	.2942	.0046	.0453	.0856	.0880	.0497	.0122

TABLULATED SOURCE DATA, NSFC TNT 887 (1A32F)

(082701)

NSFC 887(1A32F) Y9 S3/2 S3/2 03 EXTERNAL TANK

DATE 05 SEP 75

MACH (8) = 3.500 ALPHA (3) = -2.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .9118 .8838

PHI	.000	.0469	-.0800
18.000	.0240	.0098	
36.000	.0115	.0690	
54.000	.0206	.0687	
72.000	.0311	.0135	
90.000	.0318	-.0198	
108.000	.0173	.0031	
126.000	.0044	.0162	
144.000	-.0209	.0034	
162.000	-.0307	-.0232	
180.000	-.0286	-.0266	
198.000	-.0307	-.0232	
216.000	-.0209	.0034	
234.000	.0044	.0162	
252.000	.0173	.0031	
270.000	.0318	-.0198	
288.000	.0311	.0135	
306.000	.0206	.0687	
324.000	.0115	.0690	
342.000	.0240	.0098	
360.000	.0469	-.0800	

MACH (8) = 3.500 ALPHA (4) = .000 0 = 8.7173 PTA = 50.018 RL = 5.3300 PSA = .87500

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1250	.2203	.2347	.2707	.3139	.3488	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4141	.1032	.0112	.0199	.0213	.0240	.0643	.0727	.2263	-.0038	.0162	.0233	.0578	.0524	.0193
18.000	.4090	.1025	-.0033	-.0006	.0075	.0149	.0606	.0676	.1201	-.0073	-.0050	.0051	.0440	.0368	-.0080
36.000	.4108	.1065	-.0091	-.0060	.0003	.0131	.0682	.1024	.1278	.0794	.0794	-.0198	-.0300	.0179	.0098
54.000	.4040	.1024	-.0145	-.0108	.0006	.0131	.0615	.0794	.1278	.0794	-.0198	.0003	.0199	.0003	-.0104
72.000	.4111	.1041	-.0175	-.0138	.0016	.0138	.2184	.1406	-.0077	-.0192	-.0324	.0199	.0003	-.0013	-.0206
90.000	.4037	.1041	-.0199	-.0162	.0013	.1217	.7161	.1829	-.0264	-.0527	-.0351	-.0415	.0314	-.0202	-.0202
108.000	.4066	.1079	-.0219	-.0182	-.0096	.0152	.2287	.1414	-.0388	-.0604	-.0469	-.0412	-.0337	-.0299	-.0212
126.000	.4050	.1098	-.0209	-.0178	-.0131	.0034	.0200	-.0006	.0399	-.0371	-.0500	.0321	-.0172	-.0240	-.0209
144.000	.4172	.1061	-.0213	-.0196	-.0179	.0040	.0175	.0054	-.0206	-.0043	-.0084	-.0169	-.0156	-.0135	-.0219
162.000	.4142	.1078	-.0229	-.0206	-.0196	.0016	.0179	.0016	.0077	-.0057	-.0243	.0047	-.0114	-.0152	-.0219
180.000	.4175	.1071	-.0223	-.0202	-.0199	-.0233	.0074	-.0027	.0300	.0432	.0253	.0003	-.0084	-.0135	-.0219
198.000	.4142	.1078	-.0229	-.0206	-.0196	.0016	.0179	.0016	.0077	-.0057	.0243	.0047	-.0114	-.0152	-.0219
216.000	.4172	.1061	-.0213	-.0196	-.0179	.0040	.0175	.0054	-.0206	-.0043	-.0084	-.0169	-.0156	-.0135	-.0219
234.000	.4050	.1098	-.0209	-.0178	-.0131	.0034	.0200	-.0006	.0399	-.0371	-.0500	.0321	-.0172	-.0240	-.0209
252.000	.4066	.1079	-.0219	-.0182	-.0096	.0152	.2287	.1414	-.0388	-.0604	-.0469	-.0412	-.0337	-.0299	-.0212
270.000	.4037	.1041	-.0199	-.0162	.0013	.1217	.7161	.1829	-.0264	-.0527	-.0351	-.0415	.0314	-.0202	-.0202

DATE 05 SEP 75

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

PAGE 77

MSFC 567(1A32F) 19 53/2 53/2 03 EXTERNAL TANK (R621011)

MACH (8) = 3.500 ALPHA (9) = 2.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1250	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.1198	-.0097	-.0144	.0000	.0186	.2267	.1695	-.0067	-.0429	-.0364	-.0053	-.0067	-.0002	.0054	.0054
108.000	.4249	-.0070	-.0131	-.0073	.0095	.0349	.0061	.0741	-.0141	-.0317	-.0175	.0024	.0014	.0047	.0047
126.000	.4354	-.0019	-.0097	-.0090	.0010	.0311	.0369	-.0077	.0047	.0140	.0042	-.0032	.0025	.0028	.0028
144.000	.4682	-.0006	-.0080	-.0090	-.0077	.0051	.0169	.0315	-.0146	.0216	.0155	.0050	-.0074	.0111	.0111
162.000	.4682	.0010	-.0067	-.0060	-.0083	.0067	.0027	.0487	.0629	.0449	.0192	.0027	-.0064	.0131	.0131
180.000	.4746	-.0006	-.0080	-.0090	-.0077	.0051	.0169	.0315	-.0146	.0216	.0155	.0050	-.0074	.0111	.0111
198.000	.4682	-.0019	-.0067	-.0060	-.0077	.0051	.0369	-.0077	.0047	.0140	.0042	-.0032	.0025	.0028	.0028
216.000	.4354	-.0070	-.0131	-.0073	.0095	.0349	.0061	.0741	-.0141	-.0317	-.0175	.0024	.0014	.0047	.0047
234.000	.4249	-.0097	-.0144	-.0073	.0095	.0349	.0061	.0741	-.0141	-.0317	-.0175	.0024	.0014	.0047	.0047
252.000	.4072	-.0127	-.0154	.0062	.1246	.2267	.1695	-.0067	-.0429	-.0364	-.0053	-.0067	-.0002	.0054	.0054
270.000	.3668	-.0131	-.0090	.0081	.0135	.2432	.0971	-.0232	-.0408	-.0439	-.0070	-.0168	-.0023	.0043	.0043
288.000	.3779	-.0134	-.0090	.0085	.0210	.0474	.0349	.0775	.0494	-.0242	-.0395	.0037	.0098	.0098	.0098
306.000	.3742	-.0104	-.0050	.0088	.0257	.0491	.0653	.1763	-.0073	-.0138	-.0100	-.0053	-.0014	.0107	.0107
324.000	.3640	-.0053	-.0012	.0122	.0291	.0508	.0480	.2121	-.0073	-.0200	.0528	.0254	-.0035	.0229	.0229
342.000	.3698	.0098	.0118	.0240	.0372	.0548	.0504	9.9990	.0186	.0338	.0695	.0477	.0122	.0265	.0265
360.000															
378.000															

X/LT .9116 .9836

PHI	.000	-.0002	-.0669
18.000	.0017	-.0043	
36.000	-.0046	.0428	
54.000	.0058	.0646	
72.000	.0115	-.0019	
90.000	.0274	-.0090	
108.000	.0240	.0108	
126.000	.0129	.0227	
144.000	-.0018	.0066	
162.000	-.0114	-.0098	
180.000	-.0104	-.0084	
198.000	-.0114	-.0098	
216.000	-.0018	.0066	
234.000	.0129	.0227	
252.000	.0240	.0108	
270.000	.0274	-.0090	
288.000	.0115	-.0019	
306.000	.0058	.0646	
324.000	-.0046	.0428	
342.000	.0017	-.0043	
360.000	-.0002	-.0669	

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(182101)

MSFC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK

MACH (8) = 3.500 ALPHA (8) = 5.000 Q = 5.7173 PTA = 3818 X378 .5055 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT		.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.3001	.0843	.0190	.0193	.0230	.0240	.0311	.0491	.1631	.0173	.0484	.0538	.0159	-.0152	-.0374
	18.000	.2980	.0562	.0034	.0058	.0125	.0132	.0261	.0325	.1309	-.0070	.0315	.0429	.0068	-.0202	.0240
	36.000	.3163	.0290	-.0029	.0034	.0051	.0088	.0261	.0436	.1309	.0399	-.0401	-.0134	-.0195	-.0114	-.0158
	54.000	.3336	.0711	-.0127	.0044	.0044	.0044	.0213	.0244	.0545	-.0134	.0540	-.02-6	.0024	.0112	.0010
	72.000	.3688	.0663	-.0178	-.0073	.0017	-.0029	.1999	.0541	-.0381	-.0445	-.0395	-.0266	.0024	.0213	.0068
	90.000	.3995	.1059	-.0141	-.0168	.0010	.1472	.7145	.2013	-.0489	-.0053	-.0073	.0024	.0234	.0115	.0185
	108.000	.4442	.1299	-.0056	-.0104	-.0033	.0257	.2192	.2219	.0335	-.0341	-.0172	.0937	.0067	.0175	.0185
	126.000	.4780	.1499	.0044	-.0019	-.0023	.0159	.0519	.0535	.1106	.0186	-.0097	-.0016	.0139	.0139	.0158
	144.000	.5308	.1702	.0159	.0078	.0051	.0010	.0633	.0643	.0349	.0186	.0311	.0305	.0173	.0139	.0344
	162.000	.5470	.1861	.0217	.0132	.0105	.0044	.0528	.0237	.0568	.0531	.0469	.0415	.0233	.0111	.0020
	180.000	.5562	.1895	.0254	.0169	.0139	.0075	.0281	.0112	.0386	.0822	.0679	.0415	.0233	.0138	.0020
	198.000	.5470	.1861	.0217	.0132	.0105	.0044	.0528	.0237	.0568	.0531	.0469	.0415	.0233	.0111	.0010
	198.000	.5308	.1702	.0159	.0078	.0051	.0010	.0633	.0643	.0349	.0186	.0311	.0305	.0173	.0139	.0044
	216.000	.4780	.1499	.0044	-.0019	-.0023	.0159	.0519	.0535	.1106	.0186	-.0097	-.0016	.0139	.0139	.0158
	234.000	.4442	.1299	-.0056	-.0104	-.0033	.0257	.2192	.2219	.0335	-.0341	-.0172	.0937	.0067	.0175	.0185
	270.000	.3995	.1059	-.0141	-.0168	.0010	.1472	.7145	.2013	-.0381	-.0445	-.0395	-.0266	.0024	.0213	.0068
	288.000	.3688	.0663	-.0178	-.0073	.0017	-.0029	.1999	.0541	.0545	-.0134	.0540	-.0245	.0024	.0112	.0010
	306.000	.3336	.0711	-.0127	.0044	.0044	.0044	.0213	.0244	.0545	-.0134	.0540	-.0245	.0024	.0112	.0010
	324.000	.3163	.0599	-.0029	.0034	.0051	.0088	.0261	.0436	.1309	.0399	-.0401	-.0134	-.0155	-.0114	-.0158
	342.000	.2980	.0562	.0034	.0058	.0125	.0132	.0261	.0325	.1631	-.0070	.0315	.0429	.0068	-.0202	.0240
	360.000	.3001	.0843	.0190	.0193	.0230	.0240	.0311	.0491	9.9990	.0173	.0484	.0538	.0159	-.0152	-.0374
X/LT		.9116	.9636							.1631						

PHI	.000	.0695	-.0483													
	18.000	.0298	.5720													
	36.000	.0173	.0646													
	54.000	.0118	.0727													
	72.000	.0217	.0284													
	90.000	.0352	.0139													
	108.000	.0209	.0226													
	126.000	.0227	.0349													
	144.000	.0081	.0095													
	162.000	.0050	.0057													
	180.000	.0060	.0071													
	198.000	.0050	.0057													
	216.000	.0091	.0095													
	234.000	.0227	.0349													
	252.000	.0209	.0226													
	270.000	.0352	.0139													
	288.000	.0217	.0284													
	306.000	.0118	.0727													
	324.000	.0173	.0646													

TABLATED SOURCE DATA, MSFC INT 567 (1A32F)

(14827011)

DATE 08 SEP 75

MSFC 567(1A32F) 79 53/2 53/2 03 EXTERNAL TASK

MACH (8) = 3.500 ALPHA (8) = 5.000

SECTION (1) EXTERNAL TASK DEPENDENT VARIABLE CP

X/LT .9118 .8838

PHI
342.000 .0200 .0020
360.000 .0680 -.0483

MACH (8) = 3.500 ALPHA (7) = 8.000 0 = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TASK DEPENDENT VARIABLE CP

X/LT .0797 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.2312	.0376	.0119	.0106	.0126	.0112	.0109	.0454	.0148	.0667	.0230	-.0124	-.0310	-.0266
18.000	.2341	.0254	.0007	-.0009	.0081	.0010	.0010	.0031	.0179	.0007	.0254	.0129	-.0134	-.0263	.0508
36.000	.2581	.0328	-.0033	-.0029	-.0016	-.0016	-.0016	.0010	.0193	.0585	-.0557	-.0314	.0182	.0215	-.0127
54.000	.2895	.0457	-.0077	-.0056	-.0040	-.0012	-.0033	.0010	.0420	.0420	-.0459	-.0374	-.0263	-.0015	-.0046
72.000	.3383	.0690	-.0215	-.0100	-.0070	-.0131	.1604	.1115	.0115	-.0358	-.0550	-.0368	-.0168	.0054	-.0090
90.000	.3901	.1015	-.0198	-.0199	-.0040	.1685	.7446	.2131	.0839	-.0259	-.0151	-.0195	-.0158	-.0104	-.0120
108.000	.4584	.1387	-.0023	-.0083	-.0063	.0409	.2213	.2666	.0839	-.0158	.0169	.0311	.0328	.0342	.0372
126.000	.5200	.1749	.0196	.0091	.0054	.0274	.0656	.0758	.1235	.0592	.0213	.0294	.0396	.0359	.0332
144.000	.6002	.2091	.0352	.0254	.0217	.0206	.0941	.0965	.0673	.0376	.0420	.0464	.0389	.0349	.0311
162.000	.6786	.2372	.0454	.0369	.0338	.0301	.0541	.0393	.0863	.0771	.0711	.0541	.0474	.0349	.0321
180.000	.7445	.2448	.0541	.0440	.0366	.0349	.0338	.0345	.0470	.1052	.0924	.0639	.0457	.0352	.0328
198.000	.8286	.2372	.0454	.0369	.0338	.0301	.0541	.0393	.0863	.0771	.0711	.0541	.0474	.0349	.0321
216.000	.9002	.2091	.0352	.0254	.0217	.0206	.0941	.0965	.0673	.0376	.0420	.0464	.0389	.0349	.0311
234.000	.9584	.1387	-.0023	-.0083	-.0063	.0409	.2213	.2666	.0839	-.0158	.0169	.0311	.0328	.0342	.0372
270.000	.3901	.1015	-.0198	-.0199	-.0040	.1685	.7446	.2131	.0839	-.0259	-.0151	-.0195	-.0158	-.0104	-.0120
288.000	.3901	.1015	-.0198	-.0199	-.0040	.1685	.7446	.2131	.0839	-.0259	-.0151	-.0195	-.0158	-.0104	-.0120
306.000	.2895	.0457	-.0077	-.0056	-.0040	-.0012	-.0033	.0010	.0420	-.0459	-.0374	-.0263	-.0168	.0054	-.0090
324.000	.2581	.0328	-.0033	-.0029	-.0016	-.0016	-.0016	.0010	.0193	.0585	-.0557	-.0314	.0182	.0215	-.0127
342.000	.2341	.0254	.0007	-.0009	.0081	.0010	.0010	.0031	.0179	.0007	.0254	.0129	-.0134	-.0263	.0508
360.000	.2312	.0376	.0119	.0106	.0126	.0112	.0109	.0454	.0148	.0667	.0230	-.0124	-.0310	-.0266	
378.000	.9118	.8838													

PHI	.000	.0832	-.0401
18.000	.0680	.0054	
36.000	.0196	.0548	
54.000	.0047	.0430	
72.000	.0217	.0379	
90.000	.0284	.0149	
108.000	.0349	.0254	
126.000	.0369	.0575	
144.000	.0277	.0281	

ORIGINAL FILE IS
CONTROL QUALITY

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 53/2 03 EXTERNAL TANK

(R62101)

DATE 75 SEP 75

MACH (8) = 3.500 ALPHA (7) = 0.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.8838
Phi		
162.000	.0254	.0254
180.000	.0308	.0254
198.000	.0254	.0254
216.000	.0277	.0281
234.000	.0369	.0575
252.000	.0349	.0254
270.000	.0264	.0149
288.000	.0217	.0379
306.000	.0047	.0430
324.000	.0156	.0548
342.000	.0680	.0054
360.000	.0832	-.0401

MSC 567(1A32F) TO S3/2 S3/2 03 EXTERNAL TANK (R02102) (24 APR 74)

REFERENCE DATA

SREF = 0.1680 50. IN. XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
ZREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040 SCALE

MACH (1) = .600 BETA (1) = -10.000 Q = 4.3481 PTA = 22.007 RL = 4.9543 PSA = 17.251

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.0550	-.2966	-.2466	-.1861	-.0088	.0673	.1147	.0875	.0632	-.1469	-.0250	-.0421	-.0308	-.0124	.0078
18.000	.1327	-.2296	-.2129	-.1478	.0043	.0817	.1556	.1828	.0632	-.1469	-.0250	.0095	.0290	.0589	.0938
36.000	.2247	-.1506	-.1533	-.0806	.0266	.0672	.0952	.1144	.0427	-.0238	.0176	.0441	.0741	.1068	.1430
54.000	.3269	-.0895	-.0930	-.0123	.0673	.0533	-.0071	.0147	.0200	.0209	.0292	.0539	.0716	.1043	.1378
72.000	.3965	-.0449	-.0282	.0710	.1553	.1210	-.1977	-.1011	-.0888	.0499	.0317	.0493	.0649	.0906	.1188
90.000	.3473	.0440	.0060	.1098	.2066	.2119	-.1328	-.2577	.0403	.0078	.0192	.0262	.0362	.0462	.074
108.000	.3257	.0695	-.0695	.0332	.0824	-.0080	-.3804	-.2592	-.2047	.0220	.0016	.0130	.0130	.0270	.0209
126.000	.2626	.1349	-.1640	-.0776	-.0353	-.1120	-.2257	-.1652	-.1182	-.0432	-.0317	-.0176	-.0132	-.0070	.0000
144.000	.1757	.2188	-.2460	-.1784	-.1028	-.1353	-.1669	-.1573	-.1221	-.0870	-.0694	-.0580	-.0588	-.0538	-.0492
162.000	.0817	.2906	-.2968	-.2325	-.1392	-.1427	-.1091	-.1533	-.1392	-.1172	-.1074	-.0942	-.0960	-.0916	-.0916
180.000	-.0095	.3545	-.3148	-.2389	-.1465	-.1331	-.1384	-.1463	-.1401	-.1251	-.1128	-.1049	-.1031	-.0987	-.1190
198.000	-.0714	.3689	-.3151	-.2972	-.1019	-.0965	-.1506	-.1144	-.1216	-.1162	-.1010	-.0849	-.0992	-.0750	-.0688
216.000	-.1207	.3796	-.3053	-.2022	-.0410	-.0401	-.0786	-.0965	-.1019	-.0903	-.0706	-.0544	-.0455	-.0446	-.0374
234.003	-.1473	.3653	-.2723	-.0285	.0447	.0290	-.0874	-.1139	-.1099	-.0588	-.0412	-.0304	-.0277	-.0340	-.0295
252.000	-.1694	.3541	-.1368	.0348	.1422	.1109	-.2199	-.1850	-.2611	-.0220	.0016	.0130	.0130	.0200	.0209
270.000	-.1788	.3456	-.1232	.1019	.2368	.2716	-.0928	-.2018	-.0499	-.0717	-.0475	-.0214	-.0028	.0028	.0297
288.000	-.1559	.3442	-.1783	.0710	.1757	.1695	-.1469	-.1514	-.2124	-.1212	-.0694	-.0257	.0045	.0045	.0343
306.000	-.1486	.3505	-.2455	-.0033	.0784	.0755	-.0329	-.0975	-.1594	-.1540	-.1850	-.1400	-.0411	-.0050	.0191
324.000	-.1185	.3491	-.2144	-.0968	.0127	.0325	-.0231	-.1013	-.2791	-.3168	-.2685	-.1016	-.0311	-.0114	.0144
342.000	-.0625	.3328	-.2545	-.1687	-.0078	.0325	.0101	-.0841	-.6869	-.6313	-.1733	-.0555	-.0286	-.0257	-.0133
360.000	.0550	-.2966	-.2466	-.1861	-.0088	.0673	.1147	.0875	.0632	-.1469	-.0250	-.0421	-.0308	-.0124	.0078
378.000	.9116	.8836							.0632						

X/LT .9116 .8836

ZHI

.000	.1707	-.3152
18.000	.2019	-.2325
36.000	.1502	-.1562
54.000	.1378	-.0749
72.000	.1691	.0941
90.000	.0797	-.1080
108.000	.0358	-.0422
126.000	-.0017	-.0977
144.000	-.0624	-.1838
162.000	-.1074	-.2202
180.000	-.1137	-.2081
198.000	-.0742	-.1564

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R62102)

DATE 05 SEP 75

MSFC 567(1A32F) TO S3/2 S3/2 O3 EXTERNAL TANK

MACH (1) = .600 BETA (3) = -.4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.0239	-.2703	-.1949	-.0650	.0568	.0853	.0470	-.0089	-.1787	-.1522	-.1648	-.1755	-.0757	-.0107	.0177
324.000	.0445	-.2705	-.1779	-.0711	.0427	.1041	.1148	.0587	-.4467	-.3986	-.3398	-.1194	-.0152	.0249	.0392
342.000	.1030	-.2387	-.1850	-.0683	.0618	.1432	.1887	.1790	9.9990	-.5115	-.1510	-.0177	.0378	.0566	.0668
378.000									-.1315						

X/LT .9116 .9836

PHI

.000	.1461	-.9853
18.000	.1183	-.4101
36.000	.0694	-.2063
54.000	.0676	-.1021
72.000	.1031	.0217
90.000	.1186	-.0975
108.000	.0449	-.0400
126.000	-.0311	-.0876
144.000	-.0177	-.1324
162.000	-.0310	-.1335
180.000	-.0311	-.1343
198.000	-.0284	-.1172
216.000	-.0160	-.1081
234.000	.0000	-.0854
252.000	.0449	-.0400
270.000	.1097	.1070
288.000	.0357	-.0356
306.000	-.0213	-.1311
324.000	-.0106	-.2015
342.000	.0453	-.4092
360.000	.1461	-.9853

MACH (1) = .600 BETA (4) = .000 Q = 4.3481 PTA = 22.007 RL = 4.9943 PSA = 17.251

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.1148	-.2353	-.1491	-.0913	.0740	.1578	.2154	.2012	-.2937	-.1889	-.3272	-.1335	-.0287	.0176	.0319
18.000	.1024	-.2324	-.1773	-.0725	.0695	.1317	.1619	.1228	-.2937	-.1889	-.1546	-.1147	-.0475	.0061	.0274
36.000	.0977	-.2247	-.1689	-.0750	.0685	.0951	.0729	.0339	-.1219	-.0900	-.0701	-.0387	-.0110	.0041	.0193
54.000	.0958	-.2245	-.1563	-.0201	.0887	.0763	-.0209	-.0537	-.0935	-.0596	-.0504	-.0262	-.0073	.0142	.0303
72.000	.0982	-.2291	-.1366	.0795	.1515	.1320	-.2024	-.1557	-.1864	-.0467	-.0548	-.0270	-.0010	.0168	.0347
90.000	.0735	-.2389	-.0751	.0557	.1955	.2231	-.1400	-.2691	-.0492	-.0430	-.0430	-.0198	-.0011	.0105	.0238
108.000	.0848	-.2445	-.1407	.0132	.0982	.0364	-.3268	-.2481	-.2588	-.0610	-.0360	-.0145	-.0082	.0015	.0123
126.000	.0857	-.2520	-.1982	-.0817	.0203	-.0316	-.1543	-.1516	-.1131	-.0459	-.0305	-.0171	-.0127	-.0091	-.0011

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75 MACH (1) = .600 BETA (5) = 4.000 (R82T02)

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK PTA = 22.007 PL = 4.9943 PSA = 17.251

MACH (1) = .600 BETA (5) = 4.000 DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.9116	.9836
PHI		
342.000	.1183	-.4101
360.000	.1525	-.8741

MACH (1) = .600 BETA (6) = 8.000 Q = 4.3481

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.0456	-.2732	-.2018	-.1759	.0266	.1010	.1581	.1304	-.2706	-.0624	-.0052	.0180	.0350	.0513	.0226
18.000	-.0195	-.3085	-.2268	-.1059	.0108	.0645	.0538	-.0365	-.6010	-.5894	-.2219	-.0448	-.0097	.0072	.0250
35.000	-.0669	-.3210	-.2074	-.0777	.0224	.0520	.0028	-.0741	-.2423	-.2512	-.2991	-.1133	-.0204	.0277	.0215
54.000	-.0968	-.3280	-.2246	.0065	.0766	.0820	-.0258	-.0897	-.1472	-.1328	-.1439	-.1492	-.0624	-.0079	.0269
72.000	-.1063	-.3281	-.1966	.0779	.1629	.1629	-.1555	-.1555	-.2011	-.1045	-.1117	-.0678	-.0311	-.0007	.0243
90.000	-.1324	-.3357	-.1566	.0994	.2203	.2606	-.1082	-.2229	-.0572	-.0690	-.0466	-.0466	-.0007	-.0007	.0036
108.000	-.1201	-.3415	-.1523	.0260	.1246	.0914	-.2518	-.2070	-.2635	-.0403	-.0421	-.0223	-.0232	-.0071	.0036
126.000	-.1041	-.3522	-.2587	-.0295	.0342	.0145	-.1023	.1293	-.1113	-.0583	-.0428	-.0302	-.0311	-.0276	.0213
144.000	-.0761	-.3594	-.2868	-.2115	-.0393	-.0357	-.0769	-.1003	-.0958	-.0796	-.0583	-.0448	-.0421	-.0357	.0295
162.000	-.0311	-.3451	-.2906	-.2736	-.0812	-.0741	-.1226	-.0991	-.0920	-.0920	-.0806	-.0626	-.0761	-.0563	.0501
180.000	.0322	-.3125	-.2822	-.2500	-.6990	-.0999	-.1089	-.1115	-.1071	-.0999	-.0876	-.0742	-.0733	-.0697	.0912
198.000	.0899	-.2819	-.2810	-.2259	-.1104	-.1121	-.0884	-.1253	-.1113	-.0929	-.0814	-.0683	-.0692	-.0657	.0631
216.000	.1625	-.2285	-.2417	-.1760	-.0841	-.1148	-.1498	-.1419	-.1095	-.0771	-.0521	-.0380	-.0380	-.0354	.0292
234.000	.2332	-.1577	-.1708	-.0842	-.0212	-.0573	-.2137	-.1831	-.1183	-.0466	-.0325	-.0150	-.0106	-.0045	.0025
252.000	.2767	-.1133	-.0941	.0181	.0795	.0081	-.3869	-.2747	-.2282	-.0403	-.0421	-.0223	-.0232	-.0071	.0036
270.000	.2903	-.0919	-.0194	.0930	.1995	.2100	-.1355	-.2769	.0197	-.0029	.0110	.0189	.0285	.0259	.0259
288.000	.3015	-.0877	-.0448	.0779	.1510	.1221	-.2032	-.1183	.0303	.0137	.0338	.0522	.0784	.1055	.1055
306.000	.2845	-.1140	-.1061	.0126	.0748	.0616	-.0073	.0039	.0039	.0172	.0452	.0635	.0959	.1055	.1304
324.000	.2091	-.1649	-.1543	-.0913	.0435	.0777	.0952	.1005	.0111	-.0335	.0077	.0419	.0699	.0971	.1055
342.000	.1399	-.2222	-.1951	-.1331	.0293	.1036	.1708	.1848	.0049	-.1130	-.0134	.0292	.0507	.0775	.1055
360.000	.0456	-.2732	-.2018	-.1759	.0266	.1010	.1581	.1304	9.9990	-.2706	-.0624	-.0052	.0180	.0350	.0513
378.000	.9116	.9836							-.6010						

X/LT	.9116	.9836
PHI		
.000	.1878	-.3138
18.000	.0626	-.3103
36.000	.0224	-.1555
54.000	.0180	-.0991
72.000	.0529	-.0204
90.000	.1107	-.0987
108.000	.0368	-.0322
126.000	-.0240	-.1054
144.000	-.0376	-.1176

ORIGINAL PAGE IS OF POOR QUALITY

TABLATED SOURCE DATA, MFPC TMT 887 (1A3EF)

(R82T02)

DATE 05 SEP 75

MFPC 507(1A3EF) TO 53/2 53/2 03 EXTERNAL TANK

MACH (1) = .800 BETA (7) = 10.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9118 .9038

PHI	.000	.1878	-.3073
18.000	.0208	-.3033	
36.000	.0245	-.1481	
54.000	.0290	-.0908	
72.000	.0670	-.0177	
90.000	.1205	-.0908	
108.000	.0387	-.0447	
126.000	-.0850	-.1118	
144.000	-.0382	-.1808	
162.000	-.0742	-.1534	
180.000	-.0904	-.2097	
198.000	-.1074	-.2202	
216.000	-.0624	-.1838	
234.000	-.0017	-.0977	
252.000	.0387	-.0447	
270.000	.0797	-.1080	
288.000	.1581	.0941	
306.000	.1378	-.0749	
324.000	.1502	-.1562	
342.000	.2019	-.2325	
360.000	.1670	-.3073	

MACH (2) = .800 BETA (1) = -10.000 Q = 7.3004 PTA = 22.004 RL = 8.5414 PSA = 13.022

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0797 .1950 .2203 .2347 .2707 .3138 .3499 .3816 .4378 .5095 .5732 .6408 .7085 .7762 .8439

PHI	.000	.1303	-.3098	-.2719	-.0771	.0552	.1742	.2626	.2330	-.7212	-.5073	-.1058	-.0427	-.0146	.0272
18.000	.2188	-.2728	-.7804	-.0578	.0418	.1521	.2505	.2929	.2204	-.3509	-.4842	-.0575	-.0282	.0875	.1445
36.000	.3155	-.1848	-.2423	-.0269	.0698	.1105	.1242	.1665	.1153	-.1335	-.2411	.0087	.0973	.1431	.2183
54.000	.3870	-.1221	-.1517	.0207	.1308	.1228	-.0363	.0310	.0567	-.0243	-.1116	.0325	.0941	.1529	.2219
72.000	.4387	-.0830	-.0969	.1468	.2355	.2418	-.0328	-.5067	-.0517	-.0294	-.0516	.0366	.0863	.1344	.1941
90.000	.4318	-.0788	-.0178	.1652	.3001	.3687	.2821	-.5716	-.1124	-.0411	-.0411	.0140	.0416	.0580	.0580
108.000	.4110	-.1009	-.1242	.1015	.1741	.1386	-.1316	-.6705	-.2080	-.0712	-.0098	.0144	.0271	.0446	.0510
126.000	.3525	-.1958	-.1770	-.0336	.0388	.0282	-.2622	.7293	-.1595	-.1003	-.0448	-.0093	.0160	.0240	.0536
144.000	.2709	-.2441	-.3060	-.1111	-.0581	-.1078	-.2695	.4959	-.1731	-.1201	-.0930	-.0649	-.0469	-.0305	-.0119
162.000	.1676	-.3284	-.4343	-.1673	-.1021	-.1349	-.1024	.2929	-.2044	-.1508	-.1116	-.0957	-.0902	-.0654	-.0254
180.000	.0781	-.4115	-.4135	-.1783	-.0935	-.1047	-.1599	.2227	-.2228	-.1950	-.202	-.0995	-.0911	-.0788	-.0314
198.000	.0084	-.4848	-.4820	-.3038	.0000	-.0277	-.2351	.1797	-.2244	-.1345	-.0997	-.0772	-.0966	-.0551	-.0483
216.000	-.0488	-.5131	-.3538	-.1188	.0684	.0511	-.0557	.2354	-.1899	-.1073	-.0672	-.0467	-.0259	-.0225	-.0115
234.000	-.0869	-.5402	-.2405	.0111	.1486	.1191	-.0773	.4655	-.1953	-.0936	-.0536	-.0304	-.0193	-.0157	-.0073
252.000	-.1120	-.5484	-.0467	.1311	.2811	.2378	-.0367	.8963	-.3310	-.0712	-.0098	.0144	.0271	.0446	.0510
270.000	-.1277	-.5565	.0079	.1625	.3566	.4377	.2998	-.8700	-.1782	-.1528	-.0735	-.0162	-.0259	-.0259	-.0089

(R82T02)

EXTERNAL TANK

MSFC 567(1A32F) T9 S3/2 S3/2 O3

MACH (2) = .900 BETA (1) = -10.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
288.000	-1.003	-.5458	.0021	.1468	.3037	.3388	.0762	-.6982	-.2721	-.3047	-.1959	-.0546	.0126	.0504	.0856
306.000	-.0872	-.5253	-.0583	.0765	.2098	.2334	.0822	-.2252	-.2294	-.3994	-.2126	-.0598	.0136	.0472	.0813
324.000	-.0451	-.4836	-.1710	-.0171	.1483	.1945	.1195	-.0441	-.4605	-.6393	-.2908	-.0557	-.0025	.0300	.0763
342.000	.0172	-.4440	-.4293	-.0164	.1038	.1831	.1768	.0524	-.6738	-.7426	-.3257	-.0504	-.0057	.0063	.0289
360.000	.1383	-.3698	-.2719	-.0771	.0552	.1742	.2626	.2330	9.9990	-.7212	-.5073	-.1058	-.0427	-.0146	.0272
378.000								.2204							

X/LT .9118 .9836

PHI

.000	.2578	-.3038
18.000	.3169	-.1231
36.000	.2919	.0410
54.000	.2733	.1301
72.000	.2661	.2713
90.000	.1180	-.0130
108.000	.0939	-.0114
126.000	.0636	-.0384
144.000	-.0119	-.1253
162.000	-.0654	-.1693
180.000	-.0783	-.1796
198.000	-.0498	-.1523
216.000	-.0110	-.1098
234.000	.0028	-.0846
252.000	.0939	-.0114
270.000	.1587	-.0546
288.000	.1151	-.0389
306.000	.0871	-.0367
324.000	.0960	-.1412
342.000	.0974	-.3108
360.000	.2576	-.3036

MACH (2) = .900 BETA (2) = -8.000 0 = 7.3684 PTA = 22.004 RL = 6.5414 PSA = 13.022

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.1806	-.3232	-.3034	-.0139	.0856	.2069	.2912	.2577	-.8289	-.0909	.0045	.0404	.0650	.1033	.1033
18.000	.2186	-.2939	-.3284	.0022	.0777	.1736	.2653	.2805	.1411	-.4191	-.1722	.0263	.0750	.1185	.1771
36.000	.2923	-.2174	-.2195	-.0108	.0956	.1395	.1250	.1302	.0605	-.1817	-.1459	.0447	.1034	.1492	.2459
54.000	.3455	-.1692	-.2033	.0464	.1435	.1382	-.0249	-.1608	.0180	-.0984	-.0998	.0421	.0892	.1495	.1814
72.000	.3856	-.1328	-.0914	.1300	.2420	.2451	-.0134	-.5992	-.0579	-.0563	.0379	.0777	.1222	.1804	.1804
90.000	.3804	-.1323	-.0307	.1609	.3055	.3804	.2982	-.7411	-.1041	-.0285	.0295	.0467	.0652	.0539	.0539

(R62102)

EXTERNAL TANK

MACH (2) = .500 BETA (2) = -0.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.6757	.1550	.8203	.2397	.2707	.3139	.3466	.3816	.4378	.5055	.5732	.6412	.7085	.7782	.8438
PHI															
108.000	.3868	-.1474	-.1371	.1087	.1879	.1617	-.1025	-.9181	-.2169	-.0684	-.0068	.0226	.0310	.0493	.0677
128.000	.3226	-.1912	-.1709	-.0175	.0843	.0088	-.2187	-.7039	-.1257	-.0989	-.0506	-.0113	.0148	.0315	.0514
144.000	.2826	-.2389	-.3015	-.0853	-.0186	-.0611	-.2149	-.4453	-.1309	-.1015	-.0706	-.0480	-.0306	-.0149	.0024
162.000	.1802	-.3235	-.4852	-.0789	-.0595	-.0658	-.0912	-.3198	-.1724	-.1204	-.0820	-.0605	-.0521	-.0375	-.0234
180.000	.1081	-.3890	-.4889	-.1066	-.0542	-.0595	-.1370	-.2381	-.2004	-.1223	-.0857	-.0637	-.0548	-.0454	-.0348
198.000	.0484	-.4324	-.4731	-.2656	.0238	-.0043	-.1865	-.2021	-.2110	-.1063	-.0708	-.0493	-.0388	-.0315	-.0200
216.000	.0023	-.4744	-.4195	-.0985	.0782	.0620	-.0640	-.2827	-.1795	-.0880	-.0479	-.0310	-.0211	-.0121	.0004
234.000	-.0397	-.5022	-.2902	.0235	.1552	.1227	-.0788	-.4849	-.1795	-.0772	-.0351	-.0210	-.0116	-.0042	.0088
252.000	-.0592	-.5120	-.0770	.1279	.2550	.2367	-.0378	-.9414	-.3207	-.0884	-.0066	.0226	.0310	.0493	.0677
270.000	-.0718	-.5152	-.0017	.1571	.3485	.4400	.3103	-.8823	-.2596	-.1424	-.0944	-.0551	-.0164	-.0239	.0579
288.000	-.0473	-.5101	-.0205	.1300	.2991	.3326	.0685	-.7695	-.2423	-.2423	-.1539	-.0718	-.0348	.0412	.0920
306.000	-.0316	-.4860	-.1098	.0902	.2215	.2434	.0860	-.2405	-.2442	-.3005	-.1689	-.0997	-.0184	.0423	.0937
324.000	.0060	-.4486	-.1430	.0117	.1514	.2074	.1352	-.0269	-.4507	-.4847	-.2461	-.0949	-.0018	.0463	.0855
342.000	.0563	-.4179	-.3724	-.0080	.1228	.2044	.2050	.0887	-.6525	-.9283	-.2469	-.0342	.0307	.0522	.0946
360.000	.1606	-.3532	-.3034	-.0139	.0856	.2089	.2912	.2577	9.9990	-.8289	-.0909	.0045	.0404	.0650	.1033
378.000									.1411						

X/LT .9116 .9836

PHI	.000	.3082	-.2984	.3301	-.1384	.2794	.0243	.2358	.1180	.2689	.2584	.1951	.0017	.1033	.0174	.0645	-.0296	.0024	.1100	.162.000	-.0343	-.1422	.180.000	-.0454	-.1513	.198.000	-.0269	-.1357	.216.000	-.0337	-.1072	.234.000	.0150	-.0718	.252.000	.1033	.0174	.270.000	.1601	-.0525	.288.000	.1097	.0286	.306.000	.0858	-.0431	.324.000	.0968	-.1217	.342.000	.1594	-.3021	.360.000	.3082	-.2984
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TABLATED SOURCE DATA, W5FC TMT 567 (1A32F)

DATE 05 SEP 75

W5FC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK (R02102)

MACH (2) = .900 BETA (3) = -.4.000

SECTION (1) INTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9118 .9036

PHI
342.000 .1373 -.4808
360.000 .2787 -.7886

MACH (2) = .900 BETA (4) = .000 0 = 7.3604 PTA = 22.004 RL = 6.5414 PSA = 13.022

SECTION (1) INTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1250 .2203 .2347 .2707 .3136 .3469 .3818 .4378 .5025 .5732 .6408 .7065 .7762 .8439

PHI
.000 .1775 -.3354 -.2234 .0048 .1477 .2508 .3268 .2854 .2611 .2407 .1453 -.0029 .0665 .0944
18.000 .1657 -.3202 -.1580 .0229 .1037 .2379 .2746 .1856 .2611 .2407 .1453 -.0029 .0665 .0944
36.000 .1593 -.3349 -.3171 .1022 .1609 .2033 .1509 .0095 .2082 .1479 .1339 .0502 .0036 .0286 .0683
54.000 .1513 -.3362 -.2590 .1324 .2018 .2090 .0437 .3110 .1367 .1226 .1090 .0406 .0033 .0382 .0734
72.000 .1579 -.3369 -.0938 .1312 .2680 .2957 .0227 .8432 .1623 .0905 .1057 .0554 .0052 .0349 .2719
90.000 .1359 -.3509 .0160 .1506 .3225 .4066 .2999 .7746 .1180 .0789 .0443 .0017 .0329 .0602 .0602
108.000 .1487 .3486 .0492 .0991 .2216 .2038 .0534 .9192 .2348 .0923 .0312 .0055 .0107 .0297 .2465
126.000 .1500 .3556 .2110 .0123 .0623 .0391 .0990 .3141 .1075 .0543 .0301 .0097 .0028 .0128 .0305
144.000 .1503 .3618 .2733 .0575 .0313 .0078 .0691 .2233 .1159 .0591 .0296 .0197 .0032 .0112 .0217
162.000 .1539 .3521 .3968 .1385 .0365 .0039 .0791 .1948 .1085 .0502 .0285 .0112 .0021 .0103 .0007
180.000 .1503 .3618 .2733 .0575 .0313 .0078 .0691 .2233 .1159 .0591 .0296 .0197 .0032 .0112 .0217
198.000 .1500 .3556 .2110 .0123 .0623 .0391 .0990 .3141 .1075 .0543 .0301 .0097 .0028 .0128 .0305
216.000 .1487 .3486 .0492 .0991 .2216 .2038 .0534 .9192 .2348 .0923 .0312 .0055 .0107 .0297 .2465
234.000 .1490 .3490 .0492 .0991 .1256 .0877 .1254 .9122 .2348 .0923 .0312 .0055 .0107 .0297 .2465
252.000 .1359 .3509 .0160 .1506 .3225 .4066 .2999 .7746 .1180 .0789 .0443 .0017 .0329 .0602 .0602
270.000 .1375 .3389 .0538 .1312 .2690 .2957 .0227 .8432 .1623 .0905 .1057 .0554 .0052 .0349 .2719
288.000 .1513 .3362 .2590 .1324 .2018 .2090 .0437 .3110 .1367 .1226 .1090 .0406 .0033 .0382 .0734
306.000 .1593 .3349 .3171 .1022 .1609 .2033 .1509 .0095 .2082 .1479 .1339 .0502 .0036 .0286 .0683
324.000 .1657 .3202 .1580 .0229 .1037 .2379 .2746 .1856 .2611 .2407 .1453 -.0029 .0665 .0944
342.000 .1775 -.3354 -.2234 .0048 .1477 .2508 .3268 .2854 .2611 .2407 .1453 -.0029 .0665 .0944
360.000 .0757 .1250 .2203 .2347 .2707 .3136 .3469 .3818 .4378 .5025 .5732 .6408 .7065 .7762 .8439
378.000 .9118 .9036

PHI
.000 .1221 -.5967
18.000 .0881 -.2543
36.000 .0587 .1443
54.000 .0676 .0501
72.000 .1046 .0595
90.000 .1433 .0228
108.000 .0829 .0123
126.000 .0426 .0434
144.000 .0249 .0800

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

1882102)

EXTERNAL TANK

DATE 05 SEP 75

MACH (2) = .000 BETA (4) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.6836
PH1		
152.000	.0149	-.0983
160.000	.0098	-.1012
198.000	.0149	-.0953
218.000	.0273	-.0800
234.000	.0428	-.0454
252.000	.0676	.0187
270.000	.1433	.0888
288.000	.1048	.0956
306.000	.0676	-.0701
324.000	.0587	-.1443
342.000	.0881	-.2543
360.000	.1221	-.5067

MACH (2) = .000 BETA (8) = 4.000 0 = 7.3864 PTA = 22.00% PL = 6.5414 PSA = 13.022

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0797	.1950	.2263	.2347	.2707	.3159	.3498	.3816	.4378	.5095	.5732	.6408	.7085	.7762	.8439
PH1															
18.000	.1618	-.3383	-.3603	.0305	.1451	.2444	.3281	.2775	-.4518	-.4917	-.2064	-.0222	.0595	.0994	.1340
36.000	.1263	-.3613	-.1862	-.0030	.1477	.2374	.2546	.1508	-.3187	-.1912	-.3397	-.1257	.0126	.2698	.5987
54.000	.0978	-.3648	-.1839	.0447	.1711	.2215	.1596	.0035	-.3187	-.1912	-.3397	-.1257	.0126	.2698	.5987
72.000	.0744	-.4066	-.2405	.1052	.2244	.2379	.0756	.2650	-.1999	-.1228	-.1279	-.0613	-.0218	.0052	.0816
90.000	.0658	-.4200	-.0919	.1560	.2999	.3249	.0632	.8141	-.2125	-.1124	-.1227	-.0602	-.0014	-.0438	.0797
108.000	.0377	-.4322	-.0118	.1951	.3444	.4310	.3168	-.9784	-.1276	-.0737	-.0425	-.0030	-.0030	.5317	.0717
126.000	.0941	-.4183	-.0561	.1088	.2472	.2389	-.0327	-1.0064	-.2773	.0805	-.0185	-.0004	.0078	.0270	.0453
144.000	.0720	-.4177	-.3104	.0574	.1611	.1267	-.0811	.5073	-.1468	.0551	-.0242	-.0097	.0001	.0185	.0272
162.000	.0901	-.4094	-.4130	-.0739	.0943	.0650	-.0687	-.2699	-.1355	.0598	-.0269	-.0113	-.0019	.0053	.0225
180.000	.1170	-.3834	-.4194	-.2498	.0601	.0262	-.1148	-.1991	-.1679	.0503	-.0377	-.0154	-.0056	.0001	.0052
198.000	.1525	-.3532	-.4419	-.3933	.0565	-.0003	-.0875	-.1987	-.1593	.0589	-.0373	-.0225	-.0044	.0000	.0000
216.000	.1783	-.3268	-.4106	-.0792	.0134	-.0116	-.0697	-.2535	-.1226	.0713	-.0358	-.0164	-.0044	.0000	.0000
234.000	.2191	-.2950	-.3349	-.0263	.0371	.0071	-.1455	-.3669	-.1087	.0730	-.0279	-.0071	.0032	.0157	.0329
252.000	.2450	-.2627	-.2388	.0322	.1027	.0552	-.1423	-.6324	-.1356	.0902	-.0326	-.0044	.0042	.0269	.0492
270.000	.2664	-.2395	-.0781	.1051	.2114	.1883	-.0766	-.9126	-.2212	.0805	-.0185	-.0044	.0000	.0000	.0000
288.000	.2968	-.2356	-.0242	.1957	.3153	.3969	.3085	-.7039	-.2212	.0805	-.0185	-.0044	.0000	.0000	.0000
306.000	.2831	-.2299	-.0493	.1586	.2816	.0128	.0128	-.7952	-.1087	.0730	-.0279	-.0071	.0032	.0157	.0329
324.000	.2615	-.2426	-.2033	.0767	.1777	.1798	.0165	-.2959	-.1087	.0730	-.0279	-.0071	.0032	.0157	.0329
342.000	.2401	-.2599	-.2929	.0776	.1413	.1837	.1492	.0765	-.0394	-.1314	-.0885	.0287	.0000	.0000	.0000
360.000	.2017	-.2967	-.3601	.0649	.1325	.2211	.2762	.2421	-.0392	-.1782	-.0885	.0287	.0000	.0000	.0000
378.000	.1819	-.3393	-.3603	.0305	.1451	.2444	.3281	.2775	-.4518	-.4917	-.2064	-.0222	.0595	.0994	.1340

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(R82T02)

MSFC 567(1A32F) 19 S3/2 S3/2 03 EXTERNAL TANK

MACH (2) = .900 BETA (6) = 0.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.3886	-.1328	-.0914	.1534	.2420	.2551	-.0134	-.5992	-.0579	-.0563	-.0495	.0379	.0777	.1222	.1804
288.000	.3455	-.1692	-.2033	.0464	.1435	.1382	-.0249	-.1608	.0180	-.0984	-.0998	.0421	.0892	.1405	.1814
306.000	.2923	-.2174	-.2195	-.0108	.0956	.1355	.1250	.1302	.0605	-.1817	-.1468	.0447	.1004	.1492	.2169
324.000	.2166	-.2839	-.3284	.0022	.0777	.1736	.2653	.2805	.1411	-.4191	-.1722	.0263	.0750	.1185	.1771
342.000	.1271	-.3665	-.3576	-.2109	.1072	.2125	.2985	.2618	9.9990	-.8204	-.0901	.0198	.0569	.0795	.1151
360.000									-.6525						
378.000															

X/LT .9118 .9838

PHI	.3174	-.2952
18.000	.1594	-.3021
36.000	.0968	-.1217
54.000	.0858	-.0431
72.000	.1097	.0286
90.000	.1601	-.0525
108.000	.0832	-.0003
126.000	.0150	-.0718
144.000	-.0037	-.1072
162.000	-.0289	-.1357
180.000	-.0104	-.1628
198.000	-.0343	-.1422
216.000	.0024	-.1100
234.000	.0645	-.0296
252.000	.0832	-.0003
270.000	.1551	.0017
288.000	.2689	.2584
306.000	.2558	.1180
324.000	.2794	.0243
342.000	.3301	-.1364
360.000	.3174	-.2952

MACH (2) = .900 BETA (7) = 10.000 Q = 7.3664 PTA = 22.004 RL = 6.5414 PSA = 13.022

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.1014	-.3803	-.3724	-.2647	.0741	.1834	.2795	.2448	-.6738	-.7229	-.4271	-.0941	-.0320	-.0016	.0394
18.000	-.0172	-.4440	-.4293	-.0168	.1038	.1831	.1768	.0524	-.7426	-.3257	-.0504	-.0057	-.0053	.0289	
36.000	-.0451	-.4836	-.1710	-.0131	.1483	.1945	.1195	-.0441	-.4605	-.6383	-.2908	-.0557	-.0525	.0352	
54.000	-.0872	-.5253	-.0593	.0765	.2098	.2334	.0822	-.2252	-.2294	-.3994	-.2125	-.0558	.0135	.0472	
72.000	-.1003	-.5458	.0021	.1587	.3037	.3368	.0762	-.6982	-.2721	-.3047	-.1959	-.0545	.0126	.0524	
90.000	-.1277	-.5565	.0079	.1625	.3566	.4377	.2998	-.9700	-.1782	-.1528	-.0735	-.0152	.0259	.0289	

TABULATED SOURCE DATA, NSFC TMT 987 (IASEF)

(R62102)

DATE 08 SEP 75

NSFC 987(IASEF) TO 53/2 53/2 03 EXTERNAL TANK

MACH (2) = .900 BETA (7) = 10.000

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP												
X/LT		.2347	.2707	.3139	.3499	.3818	.4378	.5095	.5732	.6408	.7085	.7762	.8439	
PHI														
108.000	-.1120	-.5484	.1311	.2611	.2379	-.0367	-.8983	-.3310	-.0773	-.0439	-.0084	-.0021	.0141	.0277
126.000	-.0889	-.5402	.0111	.1486	.1191	-.0773	-.4685	-.1953	-.0936	-.0536	-.0304	-.0183	-.0157	-.0073
144.000	-.0488	-.5131	-.1188	.0684	.0511	-.0657	-.2394	-.1699	-.1073	-.0672	-.0467	-.0259	-.0226	-.0115
162.000	.0084	-.4846	-.3038	.0000	-.0277	-.2351	-.1797	-.2244	-.1345	-.0997	-.0772	-.0566	-.0551	-.0483
180.000	.0905	-.3970	-.4765	-.0661	-.1087	-.1803	-.1958	-.2361	-.1524	-.1245	-.1035	-.0956	-.0867	-.0914
198.000	.1676	-.3284	-.4343	-.1673	-.1349	-.1024	-.2939	-.2044	-.1508	-.1116	-.0957	-.0803	-.0654	-.0554
216.000	.2709	-.2441	-.3580	-.1111	-.0581	-.1079	-.4958	-.1731	-.1201	-.0930	-.0649	-.0469	-.0305	-.0119
234.000	.3525	-.1558	-.1770	-.0336	-.0388	-.0262	-.7293	-.1595	-.1003	-.0448	-.0093	-.0160	-.0340	.0536
252.000	.4110	-.1009	-.1242	.1015	.1741	.1386	-.6706	-.2080	-.0773	-.0409	-.0084	-.0021	.0141	.0277
270.000	.4318	-.0786	-.1018	.1652	.3001	.3657	-.5067	-.0517	-.0294	-.0411	.0140	.0416	.0580	.0580
288.000	.4367	-.0830	-.0969	.1587	.2355	.2418	-.0326	-.0567	-.0543	-.0516	.0366	.0863	.1344	.1941
306.000	.3870	-.1221	-.1517	.0207	.1308	.1229	-.0363	-.0310	-.0567	-.1116	.0325	.0941	.1529	.2219
324.000	.3155	-.1848	-.2423	-.0269	.0698	.1105	.1242	.1655	-.1153	-.2411	.0047	.0873	.1451	.2183
342.000	.2188	-.2726	-.3504	-.0576	.0419	.1521	.2585	.2929	-.2204	-.3589	-.4842	-.0575	.0282	.0805
360.000	.1014	-.3803	-.3724	-.2647	.0741	.1834	.2795	.2448	-.7229	-.4271	-.0941	-.0320	-.0016	.0394
378.000														

X/LT	
PHI	
.000	.2659
18.000	-.0974
36.000	.0560
54.000	.0871
72.000	.1151
90.000	.1587
108.000	.0754
126.000	.0026
144.000	-.0110
162.000	-.0498
180.000	-.0667
198.000	-.0654
216.000	-.0119
234.000	.0636
252.000	.0754
270.000	.1180
288.000	.2661
306.000	.2733
324.000	.2919
342.000	.3169
360.000	.2659

TABLULATED SOURCE DATA, NSFC TNT 567 (1A32F)

DATE 05 SEP 75

(R82T02)

EXTERNAL TANK

MACH (3) = 1.050 BETA (1) = -10.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

NSFC 567(1A32F) T9 S3/2 S3/2 O3

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/L	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.3091	-.1799	-.4670	-.2371	.2024	.3146	.4085	.3750		-.6323	-.6570	-.2685	-.1325	-.0240	.0671
18.000	.3739	-.1004	-.4364	-.3211	.1767	.2842	.3794	.4014	.3569	-.2057	-.3008	-.3749	.0028	.0970	.2222
36.000	.4384	-.0305	-.3251	-.1854	.2047	.2360	.2351	.2153	.2548	.0117	-.0821	-.2298	.0891	.1886	.3184
54.000	.5233	.0235	-.2934	.0898	.2562	.2622	.1142	-.2074	.1974	.0788	.0071	-.1256	.0751	.2028	.3062
72.000	.5769	.0671	-.1678	.1892	.3700	.3869	.1667	-.5160	.1189	.1098	.0279	-.0907	.0445	.1845	.3042
90.000	.5675	.0709	-.1760	.2637	.4367	.5143	.4716	-.6465		-.0989	-.0934	-.0659	.0217	.1111	.1543
108.000	.5571	.0601	-.1833	.1848	.3274	.3219	.1156	-.6945	-.2498	.0431	.0117	-.0185	-.0011	.0888	.1605
126.000	.5033	.0130	-.3364	.0442	.1808	.1606	-.0227	-.4493	-.1704	.0125	.0070	-.0122	-.0035	.0681	.1411
144.000	.4291	-.0594	-.3914	-.2743	.0718	.0842	-.0475	-.2559	-.1136	-.0291	-.0645	-.0631	-.0526	.0167	.0829
162.000	.3426	-.1302	-.4644	-.3886	.0469	.0644	.0949	-.1522	-.1963	-.0787	-.1209	-.0736	-.0860	-.0195	.0419
180.000	.2573	-.2065	-.5210	-.4511	.0858	.0794	.0210	-.0782	-.2364	-.1380	-.1321	-.0829	-.1045	-.0369	.0104
198.000	.1951	-.2519	-.3572	-.3686	-.0190	.1502	-.0282	-.0071	-.2144	-.1750	-.0735	-.0694	-.1010	.0184	.0719
216.000	.1442	-.2944	-.3580	-.2248	.0408	.1835	.1190	-.0208	-.1937	-.1681	-.0387	-.0437	-.0304	.0554	.0448
234.000	.1081	-.3197	-.3174	-.1760	.0902	.2234	.1163	-.1737	-.2021	-.1229	-.0428	-.0401	-.0181	.0643	.1114
252.000	.0842	-.3309	-.2975	-.1205	.2194	.3750	.1985	-.5142	-.3574	.0431	.0117	-.0185	-.0011	.0888	.1605
270.000	.0683	-.3410	-.1251	-.0460	.2759	.5444	.4493	-.4389		-.1855	-.1823	-.1813	-.0753	.0540	.1423
288.000	.0902	-.3349	-.1374	.1892	.1885	.4070	.2612	-.0034	-.1406	-.1740	-.2111	-.1562	-.0058	.0998	.1642
306.000	.1039	-.3175	-.1836	-.0483	.1746	.3108	.2478	.1161	-.0634	-.3408	-.1994	-.1417	-.0158	.0766	.1645
324.000	.1380	-.2688	-.1500	-.0630	.1275	.2873	.2813	.1710	-.2480	-.5636	-.2549	-.1895	-.0529	.0919	.1798
342.000	.1915	-.2539	-.2659	-.1481	.0903	.2949	.3210	.2098	-.4727	-.6582	-.3542	-.2238	-.0511	.0618	.1263
360.000	.3091	-.1799	-.4670	-.2371	.2024	.3146	.4085	.3750	9.9390	-.6323	-.6570	-.2685	-.1325	-.0240	.0671
378.000									.3569						

X/L	.9116	.9836
PHI		
.000	.3313	-.3103
18.000	.4273	-.0117
36.000	.4293	.2239
54.000	.4215	.3190
72.000	.4280	.4460
90.000	.2337	.1332
108.000	.2261	.1141
126.000	.1843	.0833
144.000	.1072	.0094
162.000	.0552	-.0342
180.000	.0362	-.0512
198.000	.0829	-.0058
216.000	.1195	.0358
234.000	.1357	.0670
252.000	.2261	.1141
270.000	.2561	.0220
288.000	.1930	.0920
306.000	.1832	.0386
324.000	.2011	-.0781

DATE 05 SEP 75 TABULATED SOURCE DATA, NSFC TMT 567 (1A3EF)

(R82T02)

NSFC 567(1A3EF) TO 53/2 53/2 03 EXTERNAL TANK

MACH (3) = 1.050 BETA (1) = -10.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9838

PHI .000
342.000 .1723 -.3130
360.000 .3313 -.3103

MACH (3) = 1.050 BETA (2) = -8.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2207	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.3219	-.1733	-.4354	-.2165	.2219	.3453	.4252	.3894	-.6218	-.6068	-.1781	-.0884	.0509	.1324
18.000	.3730	-.1136	-.3969	-.2567	.2354	.3175	.3973	.3936	.3936	.3019	-.2585	-.3213	-.3276	-.0074	.2442
36.000	.4354	-.0535	-.3691	-.1311	.2533	.2763	.2575	.2019	.2019	.2065	-.0167	-.1068	-.2651	.0481	.3072
54.000	.4895	-.0095	-.2969	-.0194	.2887	.2901	.1416	.1808	.1808	.1582	.0452	-.0277	-.1824	.0469	.1826
72.000	.5261	.0187	-.2225	.1411	.3842	.3885	.1734	.6194	.6194	.0251	.0652	.0026	-.1418	.0325	.2834
90.000	.5195	.0262	-.2497	.2220	.4471	.5237	.4723	.6197	.6197	-.1144	-.0926	-.0811	.0141	.1112	.1568
108.000	.5095	.0159	-.2291	.0751	.3408	.3329	.1206	.7476	.7476	-.1643	-.0112	-.0259	-.0088	.0798	.1590
126.000	.4711	-.0181	-.3721	.0038	.2118	.1925	.0038	.4203	.4203	-.1315	-.0044	-.0176	-.0125	.0601	.1094
144.000	.4134	-.0787	-.4225	-.2451	.1345	.1257	-.0075	.2115	.2115	-.1508	-.0378	-.0613	-.0392	.0302	.1019
162.000	.3438	-.1350	-.4626	-.3922	.1166	.1087	.1413	-.1056	-.1056	-.2671	-.0835	-.0916	-.0461	.0057	.0737
180.000	.2780	-.1921	-.4878	-.3886	.1026	.1237	.0585	-.0384	-.0384	-.2362	-.1365	-.0793	-.0540	-.0051	.0437
198.000	.2309	-.2252	-.3829	-.3787	.0307	.1856	.0172	.0133	.0133	-.2142	-.1758	-.0392	-.0442	-.0392	.0793
216.000	.1883	-.2608	-.3832	-.2289	.0795	.2248	.1430	-.0150	-.0150	-.1986	-.1712	-.0191	-.0273	-.0415	.1051
234.000	.1542	-.2862	-.3315	-.1883	.1153	.2613	.1368	.1839	.1839	-.1975	-.1155	-.0250	-.0291	-.0355	.1139
252.000	.1322	-.2982	-.3115	-.0955	.2361	.4049	.2091	.6002	.6002	-.3508	-.0112	-.0024	-.0259	-.0088	.1580
270.000	.1158	-.3080	-.1059	-.0131	.2904	.5712	.4779	.5522	.5522	-.1053	-.1653	-.1471	-.1728	-.0913	.1370
288.000	.1398	-.3009	-.1538	.1411	.2264	.4405	.2594	.1910	.1910	-.1053	-.1520	-.1976	-.1733	-.0253	.1725
306.000	.1485	-.2892	-.1976	-.0680	.2049	.3455	.2948	.0826	.0826	-.0469	-.3094	-.1928	-.1539	-.0167	.1749
324.000	.1769	-.2630	-.1905	-.0336	.1826	.3154	.2938	.1814	.1814	-.1992	-.5001	-.2237	-.1761	-.0314	.1732
342.000	.2223	-.2332	-.2918	-.1521	.1394	.3176	.3473	.2489	.2489	-.3875	-.6288	-.3202	-.1942	-.0460	.1379
360.000	.3219	-.1733	-.4354	-.2165	.2219	.3453	.4252	.3894	.3894	9.9590	-.6218	-.6068	-.1781	-.0884	.0509
378.000	.9116	.9838								.3019					.1324

ORIGINAL PAGE IS OF POOR QUALITY

TABULATED SOURCE DATA, MSFC TMT 567 (1A3ZF)

MSFC 567(1A3ZF) 19 53/2 53/2 03 EXTERNAL TANK (R62T02)

DATE 05 SEP 75

MACH (3) = 1.050 BETA (3) = -4.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.9116	.9836											PTA	FL	PSA					
PHI	.000	.4231	-.4248											.4277	-.6162	-.1688	-.0352	.1201	.2140	
18.000	.4158	-.1526												.3329	-.0639	-.1457	-.0219	.1199	.2048	
36.000	.3577	.1142												.1864	-.0323	-.2954	-.0864	.1249	.2018	
54.000	.3394	.2422												.2331	-.0815	-.1405	.0008	.1263	.1945	
72.000	.3500	.3683												.5950	-.0502	-.1204	-.0206	.1107	.1931	
90.000	.2679	.1397												.4884	-.0773	-.0256	-.0329	.0856	.1751	
108.000	.2031	.1625												.7155	-.2368	-.1085	-.0114	-.0129	.0592	.1530
126.000	.1724	.0907												.1753	-.0813	-.0041	-.0125	.0502	.1371	
144.000	.1465	.0598												.2572	-.1190	.0169	-.0155	.0443	.1308	
162.000	.1336	.0538												.0260	-.2428	.0206	.0018	.0392	.1260	
180.000	.1358	.0553												.0470	-.1940	.0232	-.0014	.0421	.1105	
198.000	.1377	.0581												.1513	-.1697	.0206	-.0019	.0328	.1260	
216.000	.1507	.0736												.2272	-.2572	.0169	-.0045	.0443	.1308	
234.000	.1680	.1096												.2552	-.2572	-.0041	-.0105	.0522	.1371	
252.000	.2031	.1625												.2945	-.1727	-.0014	-.0056	.0558	.1530	
270.000	.2732	.0811												.1753	-.2366	-.0114	-.0329	.0556	.1751	
288.000	.2242	.1329												.4884	-.0773	-.0256	-.0329	.0856	.1751	
306.000	.2033	.0672												.4957	-.0773	-.0256	-.0329	.0856	.1751	
324.000	.2134	-.0309												.4957	-.0773	-.0256	-.0329	.0856	.1751	
342.000	.2939	-.2829												.4957	-.0773	-.0256	-.0329	.0856	.1751	
360.000	.4231	-.4248												.4957	-.0773	-.0256	-.0329	.0856	.1751	

MACH (3) = 1.050 BETA (4) = .000 Q = 8.4447 PTA = 22.007 FL = 6.8571 PSA = 10.975

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7752	.8439
PHI	.000	-.3325	-.1614	-.1030	.2576	.4047	.4672	.4277	-.0639	-.6162	-.1611	-.1688	-.0352	.1201	.2140
18.000	.3200	-.1535	-.3336	-.0240	.2685	.3843	.4195	.3329	-.0639	-.4732	-.0834	-.1457	-.0219	.1199	.2048
36.000	.3149	-.1590	-.2690	-.0986	.3029	.3656	.3195	.1864	-.0323	-.2954	-.0864	-.1491	-.0443	.1249	.2018
54.000	.3140	-.1592	-.2415	-.0566	.3336	.3756	.2331	-.0815	.0063	-.1900	-.0773	-.1405	.0008	.1263	.1945
72.000	.3189	-.1601	-.2548	-.0716	.4237	.4587	.2233	-.0550	-.0502	-.1100	-.0526	-.1204	-.0206	.1107	.1931
90.000	.3095	-.1487	-.2429	.0946	.4957	.5721	.4884	-.0773	-.0502	-.1100	-.0526	-.1204	-.0206	.1107	.1931
108.000	.3222	-.1488	-.3159	.0315	.3886	.4005	.1753	-.7155	-.2368	-.1085	-.0114	-.0095	-.0129	.0592	.1530
126.000	.3292	-.1471	-.4289	-.0470	.2886	.2945	.1132	-.2727	-.1727	-.0813	-.0041	.0004	-.0125	.0502	.1371
144.000	.3312	-.1464	-.4581	-.1940	.2292	.2272	.1299	-.0535	-.2572	-.1190	.0169	.0155	-.0045	.0443	.1308
162.000	.3280	-.1512	-.4550	-.2923	.1841	.2272	.1420	.0260	-.2428	-.1654	.0206	.0201	.0018	.0392	.1260
180.000	.3352	-.1450	-.3138	-.3047	.1247	.2203	.1513	.0470	-.1940	-.1697	.0232	.0206	-.0014	.0421	.1105
198.000	.3280	-.1512	-.4550	-.2923	.1841	.2272	.1420	.0260	-.2428	-.1654	.0206	.0201	.0018	.0392	.1260
216.000	.3312	-.1464	-.4581	-.1940	.2292	.2272	.1299	-.0535	-.2572	-.1190	.0169	.0155	-.0045	.0443	.1308
234.000	.3292	-.1471	-.4289	-.0470	.2886	.2945	.1132	-.2727	-.1727	-.0813	-.0041	.0004	-.0125	.0502	.1371
252.000	.3222	-.1488	-.3159	.0315	.3886	.4005	.1753	-.7155	-.2366	-.1085	-.0114	-.0095	-.0129	.0592	.1530
270.000	.3095	-.1487	-.2429	.0946	.4957	.5721	.4884	-.0773	-.0502	-.1100	-.0526	-.1204	-.0206	.1107	.1931

TABULATED SOURCE DATA, NSFC TMT 567 (1A32F)

(R02702)

DATE 05 SEP 75

NSFC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK

MACH (3) = 1.050 BETA (5) = 4.000

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT		.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PH1																
108.000		.2312	-.2178	-.2772	-.0044	.2974	.4245	.1856	-.6660	-.2950	-.1607	-.0163	-.0122	-.0227	.0581	.1454
126.000		.2464	-.2184	-.3794	-.1647	.2313	.3082	.1397	-.2169	-.1839	-.1226	-.0040	-.0067	-.0234	.0315	.1242
144.000		.2665	-.2018	-.3865	-.2489	.1596	.2578	.1390	-.0218	-.2115	-.1726	.0083	.0037	-.0218	.0133	.1160
162.000		.2895	-.1800	-.4109	-.3258	.1212	.2259	.1072	.0312	-.2202	-.1664	.0060	.0038	-.0236	.0275	.1066
180.000		.3227	-.1527	-.3275	-.3408	.0820	.2138	.1488	.0344	-.2026	-.1518	-.0012	-.0012	-.0291	.1396	.0824
198.000		.3533	-.1232	-.4473	-.3665	.1812	.1981	.1459	-.0145	-.2524	-.1008	-.0009	.0118	-.0114	.0113	.0594
216.000		.3859	-.1004	-.4310	-.3278	.2055	.2165	.0817	-.1104	-.2091	-.0611	-.0095	.0041	-.0141	.0196	.1077
234.000		.4095	-.0739	-.3871	-.1880	.2666	.2588	.0721	-.3341	-.1570	-.0250	-.0118	-.0032	-.0091	.0392	.1277
252.000		.4277	-.0529	-.3122	-.0022	.3825	.3743	.1547	-.7304	-.1926	-.1607	-.0163	-.0122	-.0227	.0581	.1454
270.000		.4269	-.0520	-.3508	.1272	.4798	.5415	.834	-.6459	-.0857	-.0451	-.0492	-.0492	-.0236	.0926	.1753
288.000		.4421	-.0520	-.3471	-.0295	.4261	.4430	.2123	-.6143	.0150	-.0365	-.0364	-.1187	-.0236	.1316	.2467
306.000		.4159	-.0698	-.3108	-.1027	.3514	.3450	.2018	-.1196	.0989	-.0972	.0712	-.1228	-.0227	.1467	.2458
324.000		.3978	-.0853	-.3214	-.2018	.3087	.3471	.3133	.2060	.1155	-.1780	-.1195	-.1091	.0045	.1651	.2829
342.000		.3685	-.1132	-.3348	-.2087	.2859	.3785	.4265	.3767	.1438	-.3727	-.1930	-.0940	.0168	.1681	.2757
360.000		.3255	-.1590	-.2615	-.1544	.1617	.3735	.4481	.4257	9.9990	-.5786	-.1132	-.1364	-.6054	.1458	.2407
378.000		.9116	.9836													

X/LT	PH1
	.4265
	.2939
	.2134
	.2033
	.2242
	.2732
	.2222
	.1680
	.1507
	.1377
	.1360
	.1336
	.1465
	.1724
	.2222
	.2679
	.3500
	.3354
	.3577
	.4158
	.4265

TABULATED SOURCE DATA, MSFC TMT 567 (11132F)

MSFC 56711A32F) 19 S3/2 S3/2 03 EXTERNAL TANK (R82T02)

MACH (3) = 1.050 BETA (6) = 9.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT		.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PH1	.000	.2888	-.1866	-.2663	-.2246	.1085	.3434	.4345	.3928	-.3875	-.6288	-.6067	-.1808	-.0885	.0459	.1393
	18.000	.2223	-.2332	-.2918	-.1521	.1394	.3176	.3473	.2489	-.3875	-.6288	-.6067	-.1808	-.0885	.0459	.1393
	36.000	.1769	-.2630	-.1905	-.0336	.1626	.3154	.2938	.1814	-.1992	-.5001	-.6067	-.1808	-.0885	.0459	.1393
	54.000	.1485	-.2892	-.1976	-.0680	.2049	.3455	.2548	.0826	-.0469	-.3094	-.6067	-.1808	-.0885	.0459	.1393
	72.000	.1358	-.3009	-.1538	-.0471	.2264	.4405	.2594	-.1910	-.1053	-.1520	-.6067	-.1808	-.0885	.0459	.1393
	90.000	.1158	-.3080	-.1059	-.0131	.2904	.5712	.4779	-.5522	-.1653	-.1471	-.6067	-.1808	-.0885	.0459	.1393
	108.000	.1322	-.2982	-.3115	-.0955	.2361	.4049	.2091	-.6002	-.3508	-.1683	-.6067	-.1808	-.0885	.0459	.1393
	126.000	.1883	-.1542	-.3315	-.1883	.1153	.2613	.1368	-.1838	-.1975	-.1156	-.6067	-.1808	-.0885	.0459	.1393
	144.000	.1683	-.2608	-.3932	-.2269	.0795	.2248	.1430	-.0150	-.1986	-.1712	-.6067	-.1808	-.0885	.0459	.1393
	162.000	.2309	-.2252	-.3829	-.3787	.0307	.1856	.0172	.0133	-.2142	-.1758	-.6067	-.1808	-.0885	.0459	.1393
	180.000	.2924	-.1735	-.3690	-.3512	.0210	.1362	.0685	-.0250	-.2324	-.1305	-.6067	-.1808	-.0885	.0459	.1393
	198.000	.3438	-.1350	-.4626	-.3922	.1166	.1087	.1413	-.1056	-.2671	-.0835	-.6067	-.1808	-.0885	.0459	.1393
	216.000	.4134	-.0787	-.4225	-.2451	.1345	.1257	-.0075	-.2115	-.1508	-.0378	-.6067	-.1808	-.0885	.0459	.1393
	234.000	.4711	-.0181	-.3721	-.0038	.2118	.1925	.0038	-.4203	-.1315	-.0044	-.6067	-.1808	-.0885	.0459	.1393
	252.000	.5095	.0158	-.2291	.0751	.3408	.3329	.1206	-.7476	-.1643	-.1683	-.6067	-.1808	-.0885	.0459	.1393
	270.000	.5195	.0262	-.2497	.2220	.4471	.5237	.4723	-.6197	-.1144	-.0926	-.6067	-.1808	-.0885	.0459	.1393
	288.000	.5261	.0187	-.2225	-.1471	.3842	.3985	.1734	-.6194	.0251	.0652	-.6067	-.1808	-.0885	.0459	.1393
	306.000	.4895	-.0085	-.2989	-.0154	.2887	.2901	.1416	-.1808	.1582	.0452	-.6067	-.1808	-.0885	.0459	.1393
	324.000	.4394	-.0535	-.3691	-.1311	.2533	.2763	.2575	-.2019	.2065	-.0157	-.6067	-.1808	-.0885	.0459	.1393
	342.000	.3730	-.1136	-.3949	-.2567	.2354	.3175	.3973	.3525	.3019	-.2595	-.6067	-.1808	-.0885	.0459	.1393
	360.000	.2888	-.1866	-.2663	-.2246	.1085	.3434	.4345	.3928	-.3875	-.6288	-.6067	-.1808	-.0885	.0459	.1393
	378.000	.9116	.9836													

X/LT		.9116	.9836
PH1	.000	.3837	-.2929
	18.000	.2107	-.2998
	36.000	.2037	-.0574
	54.000	.1890	.0532
	72.000	.2059	.1085
	90.000	.2657	.0459
	108.000	.2093	.1980
	126.000	.1473	.0851
	144.000	.1307	.0516
	162.000	.1022	.0239
	180.000	.0915	-.0035
	198.000	.0694	-.0020
	216.000	.1258	.0320
	234.000	.1788	.0946
	252.000	.2093	.1580
	270.000	.2594	.1388
	288.000	.4087	.4285
	306.000	.3957	.2995
	324.000	.4137	.1974

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE: 05 SEP 75

(R62T02)

MSFC 567(1A32F) T9 53/2 53/2 03 EXTERNAL TANK

MACH (3) = 1.050 BETA (6) = 0.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .9116 .9838

PHI
342.000 .4368 -.0288
360.000 .3837 -.2925

MACH (3) = 1.050 BETA (7) = 10.000 Q = 0.4447 PTA = 22.007 RL = 6.8571 PSA = 10.375

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.2719	-.1941	-.2713	-.2379	.1065	.3075	.4126	.3824	-.6136	-.6185	-.2550	-.0978	.0005	.0933
18.000	.1915	-.2539	-.2659	-.1481	.0903	.2949	.3210	.2098	-.4727	-.6282	-.3542	-.2238	-.0511	.0618
36.000	.1380	-.2688	-.1500	-.0630	.1275	.2873	.2813	.1710	-.2480	-.5636	-.2549	-.1895	-.0529	.1788
54.000	.1038	-.3175	-.1836	-.0483	.1746	.3108	.2478	.1161	-.0634	-.3408	-.1994	-.1417	-.0158	.1645
72.000	.0902	-.3349	-.1374	-.0533	.1895	.4070	.2612	-.0034	-.1406	-.1740	-.2111	-.1562	-.0058	.0548
90.000	.0683	-.3410	-.1251	-.0460	.2759	.5444	.4493	-.4389	-.1855	-.1823	-.1813	-.0753	.0540	.1423
108.000	.0842	-.3309	-.2975	-.1205	.2154	.3750	.1985	-.5142	-.3574	-.1649	-.0439	-.0383	-.0085	.0875
126.000	.1081	-.3197	-.3174	-.1760	.0902	.2234	.1163	-.1737	-.2021	-.1229	-.0428	-.0401	-.0181	.0643
144.000	.1442	-.2944	-.3580	-.2248	.0408	.1835	.1190	-.0208	-.1937	-.1681	-.0387	-.0437	-.0304	.0554
162.000	.1951	-.2519	-.3872	-.3686	-.0190	.1502	-.0282	-.0071	-.2144	-.1750	-.0735	-.0694	-.1010	.0164
180.000	.2702	-.1893	-.3688	-.3624	.0381	.0706	.0170	-.0676	-.2333	-.1266	-.1354	-.0945	-.1018	.0193
198.000	.3426	-.1302	-.4844	-.3886	.0489	.0844	.0949	-.1522	-.1963	-.0787	-.1209	-.0736	-.0860	.0419
216.000	.4291	-.0594	-.3914	-.2743	.0718	.0842	-.0475	-.2559	-.1136	-.0291	-.0645	-.0631	-.0526	.0829
234.000	.5033	.0130	-.3384	.0442	.1808	.1808	-.0227	-.4493	-.1704	.0129	-.0438	-.0383	-.0085	.1411
252.000	.5571	.0601	-.1833	.1848	.3274	.3218	.1156	-.6945	-.2498	-.1649	-.0869	-.0834	-.0217	.1375
270.000	.5879	.0709	-.1780	.2837	.4387	.5143	.4716	-.8485	-.2498	-.1649	-.0869	-.0834	-.0217	.1375
288.000	.5789	.0871	-.1878	-.0333	.3700	.3869	.1887	-.5180	.1188	.1088	-.0279	-.0907	.0445	.3042
306.000	.5233	.0295	-.2894	.0888	.2882	.2822	.1142	-.2074	.1974	.0788	.2071	-.1256	.0751	.2028
324.000	.4524	-.0305	-.3251	-.1854	.2047	.2300	.2351	-.2153	.2548	.0117	-.0821	-.2299	.0891	.1886
342.000	.3739	-.1004	-.4384	-.3211	.1787	.2842	.3794	.4014	.3569	-.2057	-.3008	-.3749	.0028	.0970
360.000	.2719	-.1941	-.2713	-.2379	.1065	.3075	.4126	.3824	-.6136	-.6185	-.2550	-.0978	.0005	.0933
378.000	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762

X/LT .9116 .9838

PHI
18.000 .3953 -.3038
36.000 .1723 -.3130
54.000 .2011 -.0781
72.000 .1832 .0388
90.000 .1930 .0920
108.000 .2561 .0220
126.000 .2035 .1517
144.000 .1357 .0670
162.000 .1195 .0358

TABLATED SOURCE DATA, MSFC TMT 587 (1A328F)

DATE 05 SEP 75

1888702)

MSFC 587(1A328F) T1 S3/2 S3/2 03 EXTERNAL TANK

MACH (4) = 1.250 BETA (1) = -10.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .8828

PHI	.000	.4018	-.3067
18.000	.4941	.0687	
36.000	.4872	3.685	
54.000	.4658	.4280	
72.000	.4638	.5807	
90.000	.2717	.1585	
108.000	.1984	.1350	
126.000	.1275	.1412	
144.000	.0248	.0566	
162.000	-.0410	-.0185	
180.000	-.0605	-.0247	
198.000	-.0387	.0324	
216.000	.0113	.0709	
234.000	.0413	.1114	
252.000	.1984	.1350	
270.000	.2279	.0455	
288.000	.1778	.1372	
306.000	.1621	.0838	
324.000	.1733	-.1955	
342.000	.1610	-.3187	
360.000	.4016	-.3067	

MACH (4) = 1.250 BETA (2) = -8.000 0 = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2603 .2347 .2707 .3138 .3488 .3816 .4378 .5025 .5732 .6408 .7085 .7762 .8439

PHI	.000	.4142	-.0429	-.3240	-.2778	.1739	.4674	.9131	-.4818	-.3407	-.1857	-.1803	-.1958	.1214
18.000	.4282	.0065	-.2691	-.2837	-.2430	.1242	.4257	.4806	.4166	.1352	-.1327	-.1024	-.0524	-.0245
36.000	.5204	.0576	-.2533	-.2421	-.1814	.1304	.2913	.2851	.2593	.3513	-.0565	-.0681	.0084	.0622
54.000	.5880	.0963	-.2234	-.2197	-.0995	.2281	.1812	-.0874	.2302	.0265	.1145	-.0278	.0167	.2487
72.000	.6088	.1237	-.2005	-.1864	.1648	.4122	.2746	-.4811	-.0795	.1012	.1524	-.0066	.0345	.0520
90.000	.5959	.1255	-.1951	-.1839	.3048	.5681	.6151	-.5691	-.3095	-.0566	-.0974	-.0283	.0120	.0378
108.000	.5885	.1163	-.2047	-.1955	.1455	.3846	.2715	-.5179	-.1173	-.0478	-.0249	.0075	-.0008	.0158
126.000	.5933	.0834	-.2263	-.2126	.0841	.2090	.1125	-.2396	-.0475	-.0124	-.0291	-.0249	-.0287	.0108
144.000	.4986	.0332	-.2633	-.2533	.1887	.0595	.0228	-.1217	-.0375	-.0350	-.0616	-.0500	-.0666	.0482
162.000	.4326	-.0156	-.2871	-.2912	-.2455	-.0499	.1645	-.0449	-.0824	-.0841	-.0915	-.0508	-.0678	.0587
180.000	.3734	-.0653	-.3336	-.3287	-.2829	-.1494	.0689	.0727	-.0749	-.1528	-.0816	-.0514	-.0529	-.0752
198.000	.3173	-.1071	-.3610	-.3498	-.2957	-.1109	-.0237	.1558	-.0501	-.1879	-.1587	-.0451	-.0255	-.0505
216.000	.2741	-.1426	-.3833	-.3737	-.2863	.0455	.1482	.1055	-.0835	-.1999	-.1114	-.0130	-.0164	-.0301
234.000	.2406	-.1683	-.3959	-.3476	-.1725	.0904	.1927	.0130	-.0343	-.2115	-.0893	-.0147	-.0251	-.0176
252.000	.2176	-.1779	-.3920	-.3413	-.0502	.3541	.3120	-.4208	-.1173	-.0478	-.0249	.0075	-.0008	.0158
270.000	.2031	-.1866	-.3214	-.2765	-.0040	.5601	.6004	-.3967	-.1059	-.1084	-.0550	-.1084	-.1138	.0631

ORIGINAL PAGE IS OF POOR QUALITY

TABLULATED SOURCE DATA, MSFC TWT 567 (1A32F)

(R82102)

DATE 05 SEP 75

MSFC 567(1A32F) T9 53/2 53/2 03 EXTERNAL TANK

MACH (4) = 1.250 PETA (2) = -0.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0737	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.2249	-.1817	-.2729	-.584	-.0564	.2978	.3586	-.2629	.1021	-.1955	-.1575	-.0688	-.1321	-.0617	.1131
288.000	.2366	-.1684	-.2821	-.2900	-.0473	.1741	.2353	.1737	.1117	-.2925	-.1797	-.0834	-.1514	-.0647	.1207
306.000	.2706	-.1446	-.3338	-.3131	-.0501	.1645	.3051	.2839	-.0751	-.3273	-.1909	-.1264	-.1664	-.0939	.1311
324.000	.3174	-.1114	-.3533	-.3154	-.2221	.1908	.3491	.3607	-.1759	-.4895	-.2670	-.1389	-.1601	-.1946	.1302
342.000	.4142	-.0429	-.3240	-.3236	-.2779	.1759	.4674	.5131	9.9950	-.4818	-.3407	-.1857	-.1803	-.1956	.1214
360.000									.4166						
378.000															

MACH (4) = 1.250 BETA (3) = -4.000 Q = 9.2903 PTA = .3818 .4378 .5055 .5732 .6408 .7085 .7762 .8439

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3439	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4309	-.0269	-.3072	-.2993	-.2415	.2105	.4085	.5848	.2686	-.4586	-.1600	-.0312	-.2825	-.0929	.1685
18.000	.4422	-.0116	-.2973	-.2896	-.2228	.2011	.4743	.5055	.2686	-.3465	-.1704	-.0211	-.0429	-.0499	.2031
36.000	.4740	-.0167	-.2801	-.2722	-.2030	.2539	.3931	.3302	.1605	-.2438	-.0227	-.0444	-.0444	-.0396	.1624
54.000	.4922	-.0321	-.2698	-.2665	-.1443	.2698	.2978	.0166	.1960	-.0721	.0113	-.0476	-.0335	-.0374	.1495
72.000	.5138	-.0437	-.2646	-.2505	.1241	.4288	.3079	-.4397	-.0204	.0195	.0556	-.0526	-.0311	-.0344	.1495
90.000	.4984	-.0429	-.2684	-.2575	.2425	.5702	.6111	-.5662	-.2517	.0141	.0141	-.0141	-.0141	-.0141	.0141

TABLATED SOURCE DATA. MSFC TMT 967 (IASEF)

DATE 05 SEP 75

(R82102)

EXTERNAL TANK

MSFC 967(IASEF) T9 S3/2 S3/2 03

MACH (4) = 1.250 BETA (3) = -4.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5095	.5742	.6408	.7085	.7762	.8439
PHI	.4988	.0438	-.2722	-.2610	.0880	.3862	.2711	-.5158	-.2372	-.0670	-.0169	-.0032	-.0090	-.0065	.0434
108.000	.4853	.0271	-.2763	-.2671	-.1273	.1877	.1514	-.1878	-.2370	-.0203	-.0040	-.0128	-.0187	-.0178	.0171
126.000	.4604	.0062	-.2878	-.2762	-.2166	.0812	.0975	-.0112	-.2145	-.0612	-.0291	-.0103	-.0166	-.0141	.0033
144.000	.4294	-.0153	-.3029	-.2933	-.2415	-.0441	.1510	.0947	-.0763	-.1130	-.0776	-.0141	.0054	-.0108	-.0053
162.000	.4047	-.0354	-.3172	-.3068	-.2626	-.1475	.1696	.1767	-.0100	-.1642	-.0938	-.0115	.0150	-.0241	-.0324
180.000	.3704	-.0646	-.3323	-.3160	-.2602	-.0783	.1072	.1810	-.0300	-.1741	-.1044	.0049	.0116	-.0129	-.0112
198.000	.3467	-.0879	-.3485	-.3314	-.2565	.0619	.1527	.1194	-.1174	-.1582	-.0808	.0116	.0041	-.0116	-.0025
216.000	.3262	-.1075	-.3521	-.3309	-.2054	.1524	.2033	-.0492	-.0829	-.1463	-.0571	.0091	-.0050	-.0162	-.0099
234.000	.3077	-.1137	-.3526	-.3351	.0294	.4036	.2935	-.4780	-.1871	-.0670	-.0169	-.0032	-.0090	-.0055	.0434
252.000	.2971	-.1264	-.3497	-.3359	.1130	.6055	.6105	-.4774	-.1210	-.0404	-.0404	-.0183	-.0454	-.0554	.0707
270.000	.3188	-.1225	-.3447	-.2505	.0045	.4735	.3693	-.3530	.0942	-.1488	-.0741	-.0362	-.0862	-.0729	.1232
288.000	.3244	-.1087	-.3386	-.2986	-.0574	.2769	.3327	-.1607	.0870	-.2499	-.1100	-.0504	-.1062	-.0883	.1242
306.000	.3479	-.0871	-.3426	-.3213	-.0754	.2237	.3534	.3471	-.0279	-.3005	-.1016	-.0691	-.1383	-.1167	.1294
324.000	.3738	-.0680	-.3362	-.3157	-.1336	.1704	.3600	.4377	-.0426	-.4269	-.1503	-.0829	-.1258	-.1149	.1474
342.000	.4309	-.0269	-.3072	-.2993	-.2415	.2105	.4085	.5848	9.9990	-.4586	-.1600	-.0312	-.0825	-.0929	.1695
378.000															.2686

X/LT .9116 .9836

PHI	.4687	-.3057
18.000	.4602	-.1013
36.000	.3953	.2063
54.000	.3611	.3494
72.000	.3744	.4621
90.000	.2836	.1431
108.000	.1686	.1740
126.000	.0998	.1073
144.000	.0537	.0533
162.000	.0267	.0543
180.000	.0113	.0638
198.000	.0104	.0741
216.000	.0353	.0870
234.000	.0732	.0991
252.000	.1666	.1740
270.000	.2044	.1153
288.000	.2153	.2398
306.000	.2000	.1475
324.000	.2201	.0404
342.000	.3146	-.2654
360.000	.4687	-.3057

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MSFC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK (RB2T02)

MACH (4) = 1.250 BETA (4) = .000 0 = 9.2803 PTA = 22.005 PL = 8.9757 PSA = 8.5301

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2947	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4171	-.0416	-.3284	-.3106	-.2103	.1961	.4029	.5939		-.4232	-.1094	-.0281	-.0927	-.0544	.1495
18.000	.4018	-.0336	-.3226	-.3105	-.1302	.2057	.3306	.4381	.1045	-.3651	-.0685	-.0169	-.0972	-.0527	.1424
36.000	.4047	-.0341	-.3209	-.2983	-.1856	.3551	.3539	.3551	.0196	-.2589	-.0668	-.0239	-.1014	-.0735	.1447
54.000	.3975	-.0370	-.3195	-.2824	-.1674	.3163	.3213	.0950	.1088	-.1862	-.0744	-.0531	-.0931	-.0777	.1244
72.000	.4026	-.0353	-.3202	-.3008	-.0334	.4572	.3392	-.4032	.0155	-.0920	-.0252	-.0544	-.0706	-.0710	.1264
90.000	.3878	-.0357	-.3164	-.3055	.1405	.5825	.6159	-.5349	-.1708	-.0098	-.0498	-.0273	-.0281	-.0483	
108.000	.4026	-.0311	-.3187	-.3054	.0255	.4930	.2914	-.4891	-.2078	-.0736	-.0269	-.0261	-.0065	-.0082	.0257
126.000	.4115	-.0336	-.3218	-.3085	-.2173	.1558	.2037	-.1186	-.1660	-.0890	-.0260	-.0235	.0009	-.0065	.0101
144.000	.4151	-.0336	-.3216	-.3091	-.2495	.0867	.1284	.0655	-.1474	-.1224	-.0623	-.0152	.0164	.0055	.0160
162.000	.4147	-.0365	-.3183	-.3033	-.2474	-.0303	.1509	.1858	-.0345	-.1520	-.0894	-.0027	.0259	.0030	.0055
180.000	.4206	-.0323	-.3183	-.3008	-.2392	-.1655	.1858	.1908	.0051	-.1788	-.0990	.0084	.0280	.0030	-.0148
198.000	.4147	-.0365	-.3183	-.3033	-.2474	-.0303	.1509	.1567	-.0345	-.1520	-.0794	-.0027	.0259	.0030	.0055
216.000	.4151	-.0336	-.3216	-.3091	-.2495	.0867	.1284	.0655	-.1474	-.1224	-.0623	-.0152	.0164	.0055	.0160
234.000	.4115	-.0336	-.3218	-.3085	-.2173	.1558	.2037	-.1186	-.1660	-.0890	-.0260	-.0235	.0009	-.0065	.0101
252.000	.4026	-.0311	-.3187	-.3054	.0255	.4930	.2914	-.4891	-.2078	-.0736	-.0269	-.0261	-.0069	-.0082	.0257
270.000	.3878	-.0357	-.3164	-.3055	.1405	.5825	.6159	-.5349	-.1708	-.0098	-.0498	-.0273	-.0281	-.0483	
288.000	.4026	-.0353	-.3202	-.3006	.0334	.4572	.3392	-.4032	.0155	-.0920	-.0252	-.0544	-.0706	-.0710	.1264
306.000	.3975	-.0370	-.3195	-.2924	-.1674	.3163	.3213	.0950	.1088	-.1862	-.0744	-.0531	-.0931	-.0777	.1244
324.000	.4047	-.0341	-.3209	-.2963	-.1856	.2373	.3551	.3539	.0196	-.2589	-.0668	-.0239	-.1014	-.0735	.1447
342.000	.4018	-.0336	-.3226	-.3105	-.1302	.2057	.3306	.4381	.1045	-.3651	-.0685	-.0169	-.0972	-.0527	.1424
360.000	.4171	-.0416	-.3264	-.3106	-.2105	.1961	.4029	.5939	9.9990	-.4232	-.1094	-.0281	-.0927	-.0544	.1495
378.000	.9116	.8436							.1045						

X/LT	.9116	.8436
PHI	.3369	-.4587
18.000	.2777	-.2430
36.000	.2273	.0239
54.000	.2232	.2057
72.000	.2464	.3122
90.000	.2069	.0750
108.000	.1137	.1249
126.000	.0625	.0842
144.000	.0360	.0748
162.000	.0180	.0630
180.000	.0168	.0592
198.000	.0180	.0630
216.000	.0360	.0748
234.000	.0625	.0842
252.000	.1137	.1249
270.000	.2069	.0750
288.000	.2464	.3122
306.000	.2232	.2057
324.000	.2273	.0239

TABULATED SOURCE DATA, NSFC TMT 987 (1A32F)

(R62702)

DATE 05 SEP 75

NSFC 987(1A32F) TO 53/2 53/2 03 EXTERNAL TANK

MACH (4) = 1.250 BETA (4) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .8777 -.2430
360.000 .3398 -.4287

MACH (4) = 1.250 BETA (5) = 4.000 0 = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0797 .1850 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.4100	-.0421	-.3180	-.2838	-.2371	.2425	.4409	.5459	-.4530	-.1253	-.0333	-.0742	-.0975	-.1740
	18.000	.3738	-.0680	-.3362	-.3187	-.1336	.1704	.3600	.4377	-.0426	-.1503	-.0829	-.1258	-.1149	.1474
	36.000	.3479	-.0871	-.3426	-.3213	-.0754	.2237	.3534	.3471	-.0279	-.1016	-.0681	-.1383	-.1167	.1294
	54.000	.3244	-.1087	-.3388	-.2986	-.0574	.2769	.3327	.1607	.0870	-.2499	-.1100	-.0504	-.1062	.1242
	72.000	.3188	-.1225	-.3447	-.3059	.0045	.4735	.3693	-.3530	.0942	-.1488	-.0741	-.0362	-.0862	.1232
	90.000	.2971	-.1264	-.3497	-.3359	.1130	.6055	.6105	-.4774	-.1210	-.0404	-.0183	-.0454	-.0594	.0707
	108.000	.3077	-.1137	-.3626	-.3351	.0254	.4036	.2935	-.4790	-.1871	-.0779	-.0467	-.0112	-.0216	.0374
	126.000	.3262	-.1075	-.3521	-.3309	-.2054	.1524	.2033	-.0492	-.0829	-.1463	-.0571	.0091	-.0050	-.0162
	144.000	.3467	-.0879	-.3485	-.3314	-.2565	.0619	.1527	.1194	-.1174	-.1582	.0808	.0116	.0041	-.0025
	162.000	.3704	-.0646	-.3323	-.3160	-.2602	-.0783	.1072	.1810	-.0300	-.1741	-.1044	.0049	.0116	-.0129
	180.000	.4029	-.0363	-.3146	-.3000	-.2421	-.2042	.1753	.1820	-.0125	-.1717	-.1042	-.0204	.0178	-.0337
	198.000	.4294	-.0153	-.3029	-.2933	-.2415	-.0441	.1510	.0947	.0763	-.1130	-.0776	-.0141	.0054	-.0053
	216.000	.4604	.0062	-.2878	-.2762	-.2166	.0812	.0575	-.0112	-.2145	-.0612	-.0291	-.0103	-.0166	-.0141
	234.000	.4853	.0271	-.2763	-.2671	-.1873	.1877	.1914	-.1878	-.2370	-.0200	-.0040	-.0128	-.0187	.0171
	252.000	.4968	.0438	-.2722	-.2610	.0880	.3862	.2711	-.5158	-.2372	-.0779	-.0467	-.0112	-.0216	.0374
	270.000	.4984	.0429	-.2684	-.2575	.2425	.5702	.6111	-.5668	-.2517	.0151	-.0790	.0211	-.0165	.0856
	288.000	.4984	.0437	-.2646	-.3059	.1241	.4288	.3079	-.4397	-.0204	.0195	.0506	-.0536	-.0311	.1295
	306.000	.4922	.0321	-.2698	-.2665	-.1443	.2698	.2978	-.0156	.1960	-.0721	.0110	-.0757	-.0336	.0374
	324.000	.4740	.0167	-.2801	-.2722	-.2030	.2539	.3931	.3302	.1605	-.2438	-.0227	-.0444	-.0411	.1834
	342.000	.4422	-.0116	-.2873	-.2886	-.2228	.2011	.4743	.5056	.2686	-.3465	-.1704	-.0211	-.0429	.2031
	360.000	.4100	-.0421	-.3180	-.2838	-.2371	.2425	.4409	.5459	9.9990	-.4530	-.0333	-.0742	-.0975	.1740
	378.000									-.0426					

X/LT .9116 .9836

PHI
.000 .4552 -.2887
18.000 .3146 -.2654
36.000 .2201 .0404
54.000 .2000 .1475
72.000 .2153 .2398
90.000 .2044 .1153
108.000 .1283 .1275
126.000 .0732 .0991
144.000 .0353 .0870

TABLATED SOURCE DATA, NSFC TMT 507 (1A3ZF)

DATE 05 SEP 76

(R02T02)

EXTERNAL TANK

NSFC 507(1A3ZF) T0 53/2 53/2 03

MACH (4) = 1.250 BETA (6) = 0.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .9116 .9036

PHI	.000	.4616	-.2747
18.000	.2427	-.3114	
36.000	.1974	-.0472	
54.000	.1665	.1140	
72.000	.2013	.1697	
90.000	.2343	.0902	
108.000	.1423	.1377	
126.000	.0553	.1224	
144.000	.0210	.0773	
162.000	-.0172	.0469	
180.000	-.0344	-.0044	
198.000	-.0200	.0178	
216.000	.0378	.0565	
234.000	.1124	.1324	
252.000	.1423	.1377	
270.000	.2945	.1718	
288.000	.4378	.5406	
306.000	.4402	.4352	
324.000	.4714	.3323	
342.000	.5041	.0191	
360.000	.4616	-.2747	

MACH (4) = 1.250 BETA (7) = 10.000 Q = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.3805	-.0729	-.3343	-.3168	-.2280	.1217	.4739	.4664	-.4810	-.3382	-.3719	-.3074	-.2393	.1263
18.000	.2819	-.1238	-.3954	-.3116	-.2099	.1747	.3453	.3066	-.2640	-.5118	-.2717	-.1834	-.2411	-.1171	.0776
36.000	.2239	.1621	-.3089	-.2797	-.0329	.1484	.2839	.2601	-.1279	-.3889	-.2242	-.1597	-.2097	-.0585	.0885
54.000	.1870	-.1870	-.2621	-.2642	-.0396	.1415	.2004	.1895	.1056	-.3009	-.1888	-.1101	-.1776	-.0393	.0951
72.000	.1736	-.1977	-.2582	-.2423	-.0582	.2366	.3418	.1088	.0559	-.2240	-.2166	-.0942	-.1633	-.0422	.0930
90.000	.1542	-.2014	-.2844	-.2394	-.0087	.5213	.5872	-.3545	-.1469	-.1443	-.0739	-.1455	-.1247	.0413	.0017
108.000	.1672	-.1950	-.3752	-.3435	-.0387	.3310	.3156	-.3772	-.1734	-.1567	-.0712	-.0228	-.0441	-.0453	.0017
126.000	.1914	-.1884	-.3981	-.3644	-.1404	.0892	.1835	.0246	-.0333	-.2480	-.0662	-.0279	-.0295	-.0274	.0028
144.000	.2281	-.1658	-.4113	-.3955	-.3038	.0572	.1610	.0931	-.0770	-.2150	-.0950	-.0395	-.0320	-.0428	.0028
162.000	.2836	-.1246	-.3836	-.3765	-.3060	.0808	.0656	.1310	-.0720	-.1884	-.1578	-.0657	-.0907	-.0656	-.0737
180.000	.3606	-.0645	-.3414	-.3351	-.2826	-.1504	-.0634	.0150	-.1171	-.1250	-.1303	-.1603	-.0941	-.0982	-.1266
198.000	.4302	-.0151	-.3060	-.2973	-.2585	-.0431	.1539	-.1357	-.2188	-.0982	-.0935	-.1014	-.1114	-.0577	-.0789
216.000	.5163	.0519	-.2583	-.2459	-.1716	.0603	.0160	-.1578	-.3765	-.0652	-.0464	-.0289	-.0648	-.0877	-.0556
234.000	.5829	.1160	-.2107	-.1957	.0581	.2178	.1010	-.2582	-.2849	-.0798	.0036	.0190	-.0242	-.0588	.0020
252.000	.6317	.1581	-.1807	-.1702	.3299	.3924	.2678	-.5308	-.3641	-.1567	-.0712	-.0228	-.0441	-.0453	.0017
270.000	.6467	.1712	-.1678	-.1553	.3927	.5783	.6142	-.5791	-.3168	-.1854	-.0827	-.0163	-.0080	-.0504	.0004

TABULATED SOURCE DATA, NSFC TMT 567 (1A32F)

(R62102)

EXTERNAL TANK

DATE 05 SEP 75

MACH (5) = 1.460 BETA (1) = -10.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.0557	.2017	-.0888	-.0787	.0713	.4733	.3821	-.3388	-.3088	-.0685	-.1001	-.0275	.0077	.0198	.0267
108.000	.0557	.2017	-.0888	-.0787	.0713	.4733	.3821	-.3388	-.3088	-.0685	-.1001	-.0275	.0077	.0198	.0267
126.000	.6058	.1505	-.1188	-.1023	-.0370	.2647	.2078	-.0981	-.2295	-.0888	-.0489	-.0113	.0065	.0012	-.0330
144.000	.5402	.0913	-.1501	-.1387	-.0955	.1105	.0999	-.0138	-.2983	-.1308	-.0561	-.0549	-.0484	-.0492	-.0704
162.000	.4541	.0322	-.1831	-.1737	-.1483	-.0583	.0622	-.0428	-.2052	-.1191	-.0623	-.1023	-.1088	-.0982	-.0933
180.000	.3782	-.0150	-.2231	-.2168	-.1970	-.1570	-.0256	.0236	-.0322	-.1280	-.1007	-.1550	-.1130	-.0938	-.1097
198.000	.3399	-.0430	-.2533	-.2542	-.2060	-.1582	.0257	.1472	-.0112	-.1128	-.1432	-.1234	-.1538	-.0501	-.0484
216.000	.2994	-.0765	-.2689	-.2484	-.2003	-.0214	.1031	.0798	-.0222	-.1210	-.1234	-.0822	-.0459	-.0414	-.0422
234.000	.2635	-.0904	-.2346	-.2297	-.1835	.0189	-.0051	.0201	.0303	-.1456	-.1342	-.0271	-.0415	-.0399	-.0390
252.000	.2468	-.0966	-.2105	-.2187	-.1423	.1520	.3983	-.2869	-.1006	-.0595	-.1001	-.0275	.0077	.0198	.0267
270.000	.2394	-.1092	-.1872	-.1913	-.1423	.5135	.7066	-.3126	-.1006	-.0692	-.1697	-.0063	-.0525	-.1080	-.0357
288.000	.2362	-.1117	-.1856	-.0772	-.1057	.1561	.4253	-.1938	.2084	-.1305	-.2958	.0157	-.0596	-.1500	.0096
306.000	.2640	-.0978	-.1990	-.2027	-.1288	.1063	.1116	.1843	.1962	-.2513	-.1244	-.0337	-.1076	-.1779	.0119
324.000	.2890	-.0680	-.2576	-.2114	-.1440	.0908	.2432	.2870	-.0578	-.4104	-.0239	-.1079	-.1524	-.1973	-.0283
342.000	.3336	-.0275	-.2547	-.2224	-.1824	.0480	.2102	.3834	-.1272	-.4896	-.2464	-.1292	-.2412	-.3382	-.1170
360.000	.4204	-.0114	-.2333	-.2308	-.1831	-.0501	.4029	.5603	9.9990	-.5151	-.2253	-.0557	-.1219	-.1957	-.2377
378.000									.5028						

X/LT .9116 .9836

PHI	.3452	-.2378	.18.000	.4098	.2112	36.000	.2807	.4717	54.000	.3040	.5357	72.000	.3815	.6055	90.000	.3010	.2083	108.000	.1670	.1394	126.000	.0673	.1219	144.000	-.0308	.0054	162.000	-.0790	-.0493	180.000	-.0791	-.0624	198.000	-.0480	.0021	216.000	-.0255	.0491	234.000	-.0076	-.1059	252.000	.1670	.1394	270.000	.1512	.0879	288.000	.1337	.1570	306.000	.1353	.1430	324.000	.3240	.1912	-.1056	342.000	.0667	-.2314	360.000	.3452	-.2378
PHI	.3452	-.2378	.18.000	.4098	.2112	36.000	.2807	.4717	54.000	.3040	.5357	72.000	.3815	.6055	90.000	.3010	.2083	108.000	.1670	.1394	126.000	.0673	.1219	144.000	-.0308	.0054	162.000	-.0790	-.0493	180.000	-.0791	-.0624	198.000	-.0480	.0021	216.000	-.0255	.0491	234.000	-.0076	-.1059	252.000	.1670	.1394	270.000	.1512	.0879	288.000	.1337	.1570	306.000	.1353	.1430	324.000	.3240	.1912	-.1056	342.000	.0667	-.2314	360.000	.3452	-.2378

Handwritten notes and stamps at the bottom right corner.

TABLATED SOURCE DATA, NSFC TMT 567 (11A32F)

DATE: 03 SEP 75

(R62T02)

NSFC 567(11A32F) TO 53/2 53/2 03 EXTERNAL TANK

MACH (5) = 1.460 BETA (4) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9:18 .9838

PHI	.000	.4120	-.1904
18.000	.3524	-.0863	
36.000	.2918	.0997	
54.000	.2633	.2665	
72.000	.2785	.3777	
90.000	.2480	.0442	
108.000	.1238	.1393	
126.000	.0621	.0911	
144.000	.0409	.0915	
162.000	.0152	.0675	
180.000	.0070	.0487	
198.000	.0152	.0675	
216.000	.0409	.0915	
234.000	.0621	.0911	
252.000	.1238	.1393	
270.000	.2480	.0442	
288.000	.2785	.3777	
306.000	.2633	.2665	
324.000	.2918	.0997	
342.000	.3524	-.0863	
360.000	.4120	-.1904	

MACH (5) = 1.460 BETA (5) = 4.000 Q = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 6.3637

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4365	.6275	-.2041	-.1853	-.1534	.1047	.3311	.5419							
18.000	.4032	.0095	-.2110	-.2044	-.1481	.1683	.2835	.3926	.1091	-.4336	.1087	.0096	-.1174	-.0917	-.1012
36.000	.3609	-.0063	-.2243	-.2100	-.1634	.1834	.3132	.3732	.0638	-.3005	.0396	-.0384	-.0625	-.0682	-.0375
54.000	.3624	-.0116	-.2321	-.1954	-.1717	.1888	.2819	.2419	.1606	-.1884	-.1179	.0242	-.0423	-.0783	-.0039
72.000	.3599	-.0201	-.2351	-.1968	-.1576	.4150	.4370	-.2351	.078E	-.0699	-.2199	.0887	-.0290	-.0748	.0012
90.000	.3436	-.0251	-.2493	-.2182	-.0757	.6037	.7471	-.3481		-.2260	-.1135	.0331	-.0342	-.0448	.0065
108.000	.3528	-.0169	-.2488	-.2181	-.1622	.4095	.4079	-.3022	-.1830	-.0512	.0525	-.0182	-.0190	-.0141	.0050
126.000	.3650	-.0128	-.2418	-.2177	-.1659	.6830	.2516	.0377	.1663	-.1124	.0630	-.0341	-.0010	-.0091	.0006
144.000	.3818	-.0051	-.2285	-.2215	-.1710	-.0091	.1062	.0732	-.0173	-.0833	-.1039	-.0537	-.0051	-.0039	.0013
162.000	.4032	.0124	-.2207	-.2178	-.1676	-.1190	.0924	.1721	.0737	-.0929	-.1349	-.0733	-.0328	-.0006	.0018
180.000	.4363	.0340	-.2081	-.2016	-.1485	-.1244	-.0509	.1826	.6903	-.0811	-.1039	-.0983	-.0483	-.0047	-.0218
198.000	.4357	.0418	-.1967	-.1886	-.1433	-.1041	.0688	.0758	.0115	-.0894	-.0605	-.0825	-.0319	-.0148	-.0181
216.000	.4676	.0651	-.1838	-.1740	-.1299	.0716	.1141	.0651	-.1707	-.0571	-.0349	-.0450	-.0287	-.0169	-.0152
234.000	.4836	.0818	-.1718	-.1644	-.1281	.2030	.2373	-.0595	-.2619	-.0637	-.0417	-.0209	-.0152	-.0274	-.0180
252.000	.4976	.1056	-.1575	-.1510	-.0592	.4316	.3892	-.3304	-.2415	-.0512	-.0225	-.0182	-.0190	-.0141	.0050
270.000	.4933	.1010	-.1520	-.1438	-.1492	.6210	.7431	-.3683	-.2528	-.0228	-.1739	-.0845	-.0422	-.0369	.0006

TABLATED SOURCE DATA, MSFC INT 567 (1A32F)

DATE 03 SEP 75

(R82T02)

MSFC 567(1A32F) T8 S3/2 S3/2 03 EXTERNAL TANK

MACH (5) = 1.460 BETA (5) = 4.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK	X/LT	.0757	.1350	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI																
268.000	.5108	.0989	-.1471	-.1988	-.0720	.4516	.3818	-.3042	-.1006	.0994	-.0572	.0182	.0039	-.0303	.0051	
306.000	.4880	.0851	-.1609	-.1503	-.1091	.2614	.2623	.0423	.0455	-.0499	-.0907	.0296	.0308	-.0397	.0059	
324.000	.4746	.0720	-.1792	-.1719	-.1238	-.0161	.3335	.4187	.2641	-.1923	-.1241	-.0058	.0284	-.0245	-.0180	
342.000	.4514	.0516	-.1652	-.1919	-.1409	-.0320	.3751	.5807	.3641	-.3718	-.0581	.0496	-.0233	-.0555	-.0230	
360.000	.4365	.0275	-.2041	-.1883	-.1534	.1047	.3311	.5419	0.9990	-.4431	.0482	.0597	-.0835	-.0835	-.0722	
378.000									.1091							

X/LT .9118 .9838

PHI

.000	.3838	-.2008
18.000	.2740	-.1847
36.000	.2239	.0679
54.000	.2284	.1781
72.000	.2518	.3016
90.000	.2185	.0437
108.000	.1099	.1144
126.000	.0667	.0814
144.000	.0323	.0764
162.000	.0075	.0561
180.000	-.0039	.0303
198.000	-.0074	.0406
216.000	-.0013	.0577
234.000	.0423	.1132
252.000	.1099	.1144
270.000	.2698	.0691
288.000	.2903	.4506
306.000	.2618	.3565
324.000	.3145	.2243
342.000	.3743	-.0421
360.000	.3838	-.2008

MACH (5) = 1.460 BETA (6) = 8.000 Q = 9.4716 PTA = 22.004 PL = 6.5271 PSA = 6.3637

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK	X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI																
.000	.4163	.0296	-.2206	-.2157	-.1488	-.0034	.2742	.5898	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
18.000	.3956	-.0005	-.2453	-.2199	-.1746	.0921	.2482	.3777	-.0414	-.4827	-.1331	-.1227	-.1771	-.2795	-.0764	
36.000	.3114	-.0352	-.2500	-.2226	-.1483	.1129	.2644	.3265	-.0111	-.3802	-.0657	-.0525	-.1463	-.1623	-.0161	
54.000	.2877	.0687	-.2189	-.2067	-.1246	.1439	.1550	.2150	.1562	-.2255	-.1255	-.0124	-.0754	-.1324	.0267	
72.000	.2851	-.0903	-.2086	-.2000	-.1074	.2332	.4267	.2245	.1590	-.1245	-.2739	.0459	-.0253	-.1053	.0154	
90.000	.2738	-.0961	-.2194	-.2043	-.1210	.5900	.7225	.3339	-.1243	-.1552	.0113	-.0270	-.0533	-.0196		

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82102)

DATE 05 SEP 75

MSFC 567(1A32F) TO S3/2 S3/2 03 EXTERNAL TANK

MACH (5) = 1.460 BETA (7) = 10.008 Q = 9.4716 PTA = 22.004 PLS = 6.5271 PSA = 6.3637

DEPENDENT VARIABLE CP

X/LT	0757	1550	2203	5347	7207	3139	3499	3816	4378	5055	5732	6408	7085	7762	8439
PHI	.4035	.0198	-.2272	-.2260	-.1953	-.0496	.2774	.5661	-.1272	-.4896	-.2594	-.0859	-.0964	-.1840	-.2011
18.000	.3336	-.0275	-.2947	-.2224	-.1824	.0480	.2102	.3834	.0578	-.4104	-.0239	-.1079	-.2412	-.3362	-.1170
36.000	.2880	-.0680	-.2576	-.2114	-.1440	.0908	.2432	.2870	-.0578	-.2513	-.1244	-.0337	-.1076	-.1973	-.3283
54.000	.2640	-.0978	-.1990	-.2027	-.1288	.1063	.1116	.1843	.1962	-.2513	-.2558	.0157	-.0896	-.1503	-.0119
72.000	.2582	-.1117	-.1856	-.1897	-.1097	.1561	.4253	-.1938	.2084	-.1305	-.1697	.0053	-.0525	-.1060	-.0357
90.000	.2394	-.1092	-.1872	-.1913	-.1423	.5135	.7056	-.3126	-.1006	-.0431	-.1104	-.0216	-.0476	-.0525	-.0245
108.000	.2468	-.0966	-.2105	-.2187	-.1435	.1520	.3983	-.2869	.0303	-.1456	-.1342	.0721	-.0415	-.0398	-.0390
126.000	.2635	-.0904	-.2346	-.2297	-.1835	.0189	-.0051	.0798	-.0222	.1210	-.1234	-.0822	-.0459	-.0414	-.0422
144.000	.2954	-.0765	-.2689	-.2484	-.2003	-.0214	.1031	.0798	-.0222	.1210	-.1234	-.0822	-.0459	-.0414	-.0422
162.000	.3399	-.0430	-.2533	-.2542	-.2060	-.1582	.0257	.1472	.0112	-.1129	-.1432	-.1334	-.1538	-.2501	-.1224
180.000	.4063	.0087	-.2225	-.2245	-.1865	-.1767	-.0455	.0046	-.0598	-.1117	-.0929	-.1407	-.1023	-.0582	-.0933
198.000	.4541	.0322	-.1831	-.1737	-.1493	-.0583	.0622	-.0428	-.2052	-.1191	-.0523	-.1023	-.1023	-.0494	-.0704
216.000	.5402	.0913	-.1501	-.1387	-.0955	.1105	.0999	-.0138	-.2593	-.1306	-.0561	-.0549	-.0494	-.0492	-.0704
234.000	.6056	.1505	-.1169	-.1023	-.0370	.2647	.2076	-.0951	-.2295	-.0996	-.0489	-.0113	-.0395	-.0212	-.0370
252.000	.6557	.2027	-.0889	-.0787	.0713	.4733	.3921	-.3365	-.3089	-.0431	-.1104	-.0216	-.0476	-.0525	-.0245
270.000	.6647	.2202	-.0754	-.0646	.2797	.6619	.7504	-.3727	-.1905	-.1778	.0955	.1659	-.0189	-.0245	-.0245
288.000	.6773	.1956	-.0820	-.1074	.0725	.4217	.3904	-.3118	-.1905	.1778	.0955	.1659	-.0189	-.0245	-.0245
306.000	.6313	.1544	-.1062	-.1074	-.0523	.2809	.2397	-.0654	.0951	.0920	.0583	.0799	.0336	.0583	.0583
324.000	.5615	.1162	-.1456	-.1358	-.0952	.1653	.1202	-.2532	.3168	-.0522	.0594	-.0400	.0350	.0541	.0594
342.000	.4820	.0403	-.1965	-.1900	-.1468	-.0456	.3438	.5004	.5028	.5028	.1225	-.1471	.0379	.0223	.0161
360.000	.4036	.0198	-.2272	-.2260	-.1553	-.0496	.2774	.5561	9.9330	-.4853	-.2594	-.0859	-.0964	-.1840	-.2011
378.000	.9116	.9835							-.1272						

Y/LT

PHI	.3710	-.2216
18.000	.0667	-.2314
36.000	.1912	-.1056
54.000	.1353	.1430
72.000	.1337	.1570
90.000	.1512	.0879
108.000	.0667	.1088
126.000	-.0376	.1059
144.000	-.0255	.0491
162.000	-.0480	.0021
180.000	-.0758	-.0566
198.000	-.0780	-.0493
216.000	-.0309	.0054
234.000	.0673	.1219
252.000	.0667	.1088
270.000	.3010	.2083
288.000	.3915	.6055
306.000	.3040	.5357
324.000	.2807	.4717

TABLATED SOURCE DATA, MSFC TMT 567 (1A3EF)

DATE 05 SEP 75

(R62T02)

MSFC 567(1A3EF) T8 S3/2 S3/2 03 EXTERNAL TANK

MACH (5) = 1.460 BETA (7) = 10.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI

342.000 .4068 .2112

360.000 .3710 -.2218

MACH (6) = 1.960 BETA (1) = -8.000 0 = 10.263 PTA = 27.997 RL = 7.0640 PSA = 3.8384

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3818 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	0.00	.0972	-.0906	-.0952	-.0593	-.0125	.1395	.3021	-.2442	-.2414	-.1372	-.0139	-.0150	-.0282
18.000	.5272	.1491	-.0659	-.0716	-.0599	-.0049	.1005	.3528	.5831	-.1000	-.1211	-.0975	.0650	.1083
30.000	.5822	.2066	-.0346	-.0288	-.0331	.0014	.1083	.1865	.3921	-.0903	.0534	.0051	.1222	.0735
42.000	.6169	.2418	-.0082	-.0071	-.0049	.0477	.3501	.1237	-.0124	.0545	.1259	.0733	.0255	.0470
54.000	.6625	.2526	.0037	.0011	.0285	.3403	.5783	-.0673	-.1827	-.0797	.2057	.1232	.1083	.0458
66.000	.6610	.2511	.0052	-.0003	.0342	.5125	1.0423	-.0819	-.1598	-.0489	-.0643	-.0184	.0421	.0251
78.000	.6670	.2372	-.0045	-.0127	.0270	.3275	.5723	-.0879	-.1970	-.1180	-.0312	.0199	.0323	.0105
90.000	.6349	.2097	-.0211	-.0462	-.0289	.1024	.3148	-.1099	-.1021	.1085	.0014	.0101	-.0098	-.0188
102.000	.5789	.1786	-.0414	-.0718	-.0681	-.0496	.0254	.1090	-.0714	-.0887	.0614	.0072	-.0241	-.0185
114.000	.5026	.1343	-.0685	-.0718	-.0686	-.0759	-.0687	.0541	-.0365	-.0726	.0475	.0185	.0354	-.0501
126.000	.4428	.0883	-.1067	-.1116	-.0938	-.0603	-.0045	.0578	.0699	-.0089	-.0433	-.0392	.0452	-.0607
138.000	.4028	.0623	-.1257	-.1215	-.0938	-.0045	-.0045	.0289	.0972	-.0037	-.0504	-.0632	.0527	-.0259
150.000	.3588	.0304	-.1249	-.1065	-.0914	-.0594	.0251	.0289	-.0538	-.0361	-.0547	-.0367	.0367	-.0217
162.000	.3200	.0090	-.1120	-.1004	-.0973	-.0282	-.0018	.0248	-.0063	-.0394	-.0383	-.0372	.0297	-.0101
174.000	.3003	.0068	-.1031	-.1016	-.1028	-.0044	.4787	-.0832	-.1493	-.1180	.0014	.0199	.0323	.0105
186.000	.2825	-.0067	-.0922	-.0944	-.0974	.3642	.6962	-.0816	-.1320	.0942	-.0705	.0268	-.0258	-.0158
198.000	.2994	-.0048	-.0867	.0011	-.0886	.0323	.4448	-.0559	.0964	.0003	-.0843	.0074	-.0250	-.0243
210.000	.3310	.0139	-.0867	-.0867	-.0807	.0462	.0815	.1067	.2239	-.0458	-.0788	-.0386	-.0409	-.0228
222.000	.3778	.0353	-.0541	-.0865	-.0741	.0379	.1625	.2318	.0699	-.1897	-.0278	-.0405	-.0838	-.0422
234.000	.4245	.0533	-.1109	-.0928	-.0680	.0124	.1451	.1601	.1831	-.1970	-.1392	-.0965	-.0436	-.1107
246.000	.4720	.0972	-.0506	-.0952	-.0593	-.0125	.1395	.3021	9.9990	-.2442	-.1372	-.0139	-.0150	-.0282
258.000									.5031					
X/LT	.9116	.9836												

PHI	.0060	-.1689	.0823	.1065	.1267	.3543	.1508	.3280	.1120	.2979	.0966	-.0312	.1207	.0767	.126.000	.0342	.0831	.144.000	-.0324	.0142
18.000	.0823	.1065	.1267	.3543	.1508	.3280	.1120	.2979	.0966	-.0312	.1207	.0767	.126.000	.0342	.0831	.144.000	-.0324	.0142		
30.000																				
42.000																				
54.000																				
66.000																				
78.000																				
90.000																				
102.000																				
114.000																				
126.000																				
138.000																				
150.000																				
162.000																				
174.000																				
186.000																				
198.000																				
210.000																				
222.000																				
234.000																				
246.000																				
258.000																				
X/LT	.9116	.9836																		

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(R02T02)

EXTERNAL TANK

MSFC 567(1A32F) TO S3/2 S3/2 03

MACH (8) = 1.860 BETA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1650	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5095	.5732	.6408	.7085	.7762	.8439
PHI	.4689	.1006	-.0903	-.0882	-.0511	.1172	.5793	-.0560	-.1366	-.0775	.0259	-.0528	.0545	.0198	-.0038
288.000	.4625	.0691	-.0869	-.0921	-.0540	-.0118	.1236	.2161	.1315	-.0280	-.0694	.0331	-.0189	.0282	-.0038
306.000	.4713	.1003	-.0878	-.0927	-.0530	-.0182	.1845	.2797	.3632	-.0504	-.1250	.0421	-.0064	.0101	.0037
324.000	.4821	.0912	-.0891	-.0952	-.0593	-.0233	.1995	.2855	.4093	-.1891	.0232	.0048	.0417	.0349	.0587
342.000	.4702	.0928	-.0837	-.0882	-.0584	-.0206	.1975	.3072	.9.9590	-.0814	.0677	.0161	-.0132	.0545	.0093
378.000								.4093							

X/LT .9116 .8836

PHI

.000	.3137	-.1531
18.000	.2411	-.0871
36.000	.0779	.0757
54.000	.0338	.1944
72.000	.0379	.3253
90.000	.0873	-.0554
108.000	.0817	.0768
126.000	.0066	.1084
144.000	.0052	.0865
162.000	.0142	.0451
180.000	.0141	.0217
198.000	.0142	.0451
216.000	.0052	.0825
234.000	.0066	.1084
252.000	.0817	.0768
270.000	.0873	-.0554
288.000	.0379	.3253
306.000	.0338	.1944
324.000	.0779	.0757
342.000	.2411	-.0871
360.000	.3137	-.1531

MACH (8) = 1.860 BETA (4) = 4.000 0 = 10.263 PTA = 27.997 RL = 7.0640 PSA = 3.8364

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4679	.1011	-.0865	-.0868	-.0509	.0009	.1602	.2824	.2876	-.1860	-.0107	-.0035	.0115	.0240	-.0130
18.000	.4280	.0968	-.1065	-.0574	-.0656	.0096	.1685	.2343	.2876	-.1945	.0323	-.0220	-.0039	.0281	-.0262
36.000	.4072	.0739	-.1191	-.0971	-.0816	.0228	.1713	.2678	.2254	-.0990	-.0395	-.0115	-.0273	.0153	-.0172
54.000	.3908	.0610	-.1189	-.0955	-.0837	.0943	.1714	.1760	.1760	-.0531	-.0768	-.0255	-.0209	.0152	-.0099
72.000	.3827	.0509	-.1151	-.0950	-.0795	.0482	.5533	-.0503	-.0431	-.0002	-.0432	-.0435	.0463	.0232	-.0122
90.000	.3549	.0361	-.1212	-.0962	-.0849	.3919	.9713	-.0788	-.1465	-.1294	-.0527	.0149	-.0364	-.0103	

TABLATED SOURCE DATA, MSFC TMT 567 (1A3EF)

(R62T02)

DATE 05 SEP 75

MSFC 567(1A3EF) TO S3/2 S3/2 03 EXTERNAL TANK

MACH (8) = 1.860 BETA (4) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
108.000	.3625	.0440	-.1221	-.0887	-.0843	.0118	.5257	-.0759	-.1774	-.0975	-.0420	-.0345	.0081	-.0179	-.0107
126.000	.3902	.0501	-.1187	-.1096	-.0931	-.0445	.0603	.1368	-.0316	-.0952	-.0001	-.0183	-.0039	-.0137	-.0058
144.000	.4101	.0682	-.1137	-.1115	-.0804	-.0562	.0073	.0406	-.0185	.0152	-.0500	-.0315	-.0421	-.0202	-.0082
162.000	.4372	.0781	-.1126	-.1130	-.0834	-.0505	-.0243	.0531	.0625	.0369	-.0244	-.0543	-.0398	-.0289	-.0013
180.000	.4625	.0936	-.0952	-.0918	-.0839	-.0475	-.0305	.0050	.0898	.0115	-.0164	-.0501	-.0384	-.0403	-.0308
198.000	.5007	.1117	-.0788	-.0833	-.0629	-.0534	-.0221	.0655	.0164	-.0001	-.0295	-.0192	-.0348	-.0265	-.0175
216.000	.5264	.1336	-.0769	-.0735	-.0523	-.0304	.0897	.0969	-.0319	-.0640	-.0519	-.0134	.0002	-.0133	-.0080
234.000	.5389	.1596	-.0640	-.0575	-.0504	.0259	.2544	.1339	-.1002	-.1286	-.0027	.0078	.0149	.0085	-.0095
252.000	.5453	.1722	-.0519	-.0466	-.0376	.2485	.5551	-.0829	-.2028	-.0975	-.0420	-.0345	.0081	-.0179	-.0107
270.000	.5383	.1756	-.0459	-.0383	-.0342	.3912	1.0299	-.0807	-.1738	-.1754	-.0889	-.0900	.0009	-.0103	-.0149
288.000	.5481	.1636	-.0459	-.0350	-.0282	.2930	.5579	-.0630	-.1738	-.1167	.1227	.0315	.0308	.0376	.0428
306.000	.5296	.1544	-.0508	-.0595	-.0361	.0043	.3458	.1745	.0425	.0232	-.0522	.0429	.0406	.0576	.0564
324.000	.5219	.1540	-.0523	-.0572	-.0364	-.0028	.1604	.2126	.3658	.0039	-.0950	.0134	.0406	.0610	.0572
342.000	.4902	.1373	-.0723	-.0742	-.0402	-.0009	.1743	.2729	.4127	-.0776	-.1244	.0221	.0587	.0583	.0451
360.000	.4679	.1011	-.0865	-.0868	-.0509	.0009	.1602	.2824	9.9990	-.1860	-.0107	-.0035	.0115	.0240	-.0130
378.000															

X/LT .9116 .9836

PHI															
.000	.2432	-.1939													
18.000	.1614	-.1781													
36.000	.1275	-.0205													
54.000	.1101	.1233													
72.000	.1154	.2235													
90.000	.1687	-.0156													
108.000	.0836	.0912													
126.000	-.0016	.0927													
144.000	.0054	.0561													
162.000	.0043	.0183													
180.000	-.0024	.0103													
198.000	-.0061	.0289													
216.000	-.0092	.0436													
234.000	.0025	.0504													
252.000	.0836	.0912													
270.000	.0342	-.0432													
288.000	.0462	.1200													
306.000	.0621	.2392													
324.000	.0636	.2150													
342.000	.0697	.0059													
360.000	.2432	-.1939													

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TABLULATED SOURCE DATA, MSFC TWT 567 (1A32F)

MSFC 567(1A32F) 19 S3/2 S3/2 03 EXTERNAL TANK (1882102)

DATE 05 SEP 75

MACH (6) = 1.960 BETA (5) = 8.000
 SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP
 X/LT .9116 .9836
 PHI
 342.000 .0823 .1065
 360.000 .0409 -.1746
 MACH (7) = 2.990 BETA (1) = -8.000 Q = 5.1858 PTA = 30.020 RL = 4.1200 PSA = .82960

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT	PHI	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.4265	.1053	.0034	-.0017	.0034	.0187	.0696	.0593	.2524	-.0215	-.0674	-.0592	-.0551	-.0544	-.0384
18.000	.4845	.1422	-.0015	-.0071	-.0048	-.0048	.0189	.0856	.1575	.2524	.1079	.0267	-.0041	-.0164	-.0071	.0502
36.000	.5508	.1858	.0141	.0073	.0047	.0047	.0163	.0718	.1694	.3154	.1433	.0286	.0144	.0159	.0342	.0379
54.000	.5828	.2196	.0306	.0209	.0187	.0187	.0392	.1003	.1905	.0593	.0006	.0073	.0170	.0878	.0737	.0628
72.000	.6343	.2350	.0380	.0308	.0319	.0319	.0737	.3910	.1336	-.0369	-.0648	-.0339	.0707	.1027	.0926	.0684
90.000	.6335	.2439	.0439	.0368	.0431	.0431	.3898	.8510	.1891	-.0808	-.0808	.0361	-.0041	.0036	-.0045	-.0130
108.000	.6246	.2353	.0390	.0308	.0282	.0282	.0807	.3996	.1243	-.0637	-.0801	-.0384	.0077	-.0041	.0116	-.0078
126.000	.5805	.2081	.0252	.0178	.0167	.0167	.0401	.1873	.1873	.0081	.0570	-.0618	-.0205	.0059	.0019	-.0052
144.000	.5318	.1742	.0073	.0005	-.0015	.0055	.0446	.0688	.0688	.0219	.0328	-.0514	-.0466	-.0186	.0194	-.0186
162.000	.4711	.1403	-.0127	-.0194	-.0212	.0190	-.0160	-.0034	-.0052	-.0052	.0298	-.0292	.0383	-.0431	.0398	-.0398
180.000	.4038	.1014	-.0330	-.0398	-.0394	.0327	-.0189	.0277	.0277	.0019	.0165	-.0237	.0427	.0413	.0386	-.0323
198.000	.3486	.0688	-.0473	-.0503	-.0358	-.0272	-.0082	.0041	.0029	.0289	.0503	-.0153	.0258	-.0294	.0305	-.0246
216.000	.3113	.0457	-.0546	-.0419	-.0326	-.0293	-.0129	-.0383	-.0383	-.0163	.0323	-.0099	.0211	-.0263	.0263	-.0252
234.000	.2656	.0302	-.0413	-.0338	-.0312	-.0282	-.0129	.0390	.0390	-.0522	.0801	-.0384	.0077	-.0041	.0116	-.0078
252.000	.2521	.0230	-.0324	-.0309	-.0324	-.0293	.0332	.1932	.0390	-.0522	.0801	-.0384	.0077	-.0041	.0116	-.0078
270.000	.2450	.0205	-.0248	-.0263	-.0297	.0443	.1972	.0321	.0321	-.0522	.0801	-.0384	.0077	-.0041	.0116	-.0078
288.000	.2539	.0267	-.0209	.0308	-.0224	-.0078	.1303	.0699	.0699	.0669	.0394	.0371	.0155	.0004	.0153	-.0387
306.000	.2692	.0384	-.0230	.0185	-.0152	.0108	.0504	.0664	.0664	.1272	.0447	-.0295	.0239	-.0226	.0323	-.0413
324.000	.3147	.0530	-.0289	.0174	-.0103	.0082	.0433	.0630	.0630	.0433	.0368	-.0497	.0174	-.0390	.0595	-.0513
342.000	.3534	.0761	-.0181	-.0211	-.0032	.0060	.0347	.0272	.0272	.3329	-.0260	-.0600	.0487	-.0550	.0557	-.0533
360.000	.4265	.1093	.0034	-.0017	.0034	.0187	.0696	.0593	.0593	9.9990	.0215	-.0674	-.0592	-.0551	-.0544	-.0384
378.000	.9116	.9836								.2524						

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT	PHI	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.4265	.1053	.0034	-.0017	.0034	.0187	.0696	.0593	.2524	-.0215	-.0674	-.0592	-.0551	-.0544	-.0384
18.000	.4845	.1422	-.0015	-.0071	-.0048	-.0048	.0189	.0856	.1575	.2524	.1079	.0267	-.0041	-.0164	-.0071	.0502
36.000	.5508	.1858	.0141	.0073	.0047	.0047	.0163	.0718	.1694	.3154	.1433	.0286	.0144	.0159	.0342	.0379
54.000	.5828	.2196	.0306	.0209	.0187	.0187	.0392	.1003	.1905	.0593	.0006	.0073	.0170	.0878	.0737	.0628
72.000	.6343	.2350	.0380	.0308	.0319	.0319	.0737	.3910	.1336	-.0369	-.0648	-.0339	.0707	.1027	.0926	.0684
90.000	.6335	.2439	.0439	.0368	.0431	.0431	.3898	.8510	.1891	-.0808	-.0808	.0361	-.0041	.0036	-.0045	-.0130
108.000	.6246	.2353	.0390	.0308	.0282	.0282	.0807	.3996	.1243	-.0637	-.0801	-.0384	.0077	-.0041	.0116	-.0078
126.000	.5805	.2081	.0252	.0178	.0167	.0167	.0401	.1873	.1873	.0081	.0570	-.0618	-.0205	.0059	.0019	-.0052
144.000	.5318	.1742	.0073	.0005	-.0015	.0055	.0446	.0688	.0688	.0219	.0328	-.0514	-.0466	-.0186	.0194	-.0186
162.000	.4711	.1403	-.0127	-.0194	-.0212	.0190	-.0160	-.0034	-.0052	-.0052	.0298	-.0292	.0383	-.0431	.0398	-.0398
180.000	.4038	.1014	-.0330	-.0398	-.0394	.0327	-.0189	.0277	.0277	.0019	.0165	-.0237	.0427	.0413	.0386	-.0323
198.000	.3486	.0688	-.0473	-.0503	-.0358	-.0272	-.0082	.0041	.0029	.0289	.0503	-.0153	.0258	-.0294	.0305	-.0246
216.000	.3113	.0457	-.0546	-.0419	-.0326	-.0293	-.0129	-.0383	-.0383	-.0163	.0323	-.0099	.0211	-.0263	.0263	-.0252
234.000	.2656	.0302	-.0413	-.0338	-.0312	-.0282	-.0129	.0390	.0390	-.0522	.0801	-.0384	.0077	-.0041	.0116	-.0078
252.000	.2521	.0230	-.0324	-.0309	-.0324	-.0293	.0332	.1932	.0390	-.0522	.0801	-.0384	.0077	-.0041	.0116	-.0078
270.000	.2450	.0205	-.0248	-.0263	-.0297	.0443	.1972	.0321	.0321	-.0522	.0801	-.0384	.0077	-.0041	.0116	-.0078
288.000	.2539	.0267	-.0209	.0308	-.0224	-.0078	.1303	.0699	.0699	.0669	.0394	.0371	.0155	.0004	.0153	-.0387
306.000	.2692	.0384	-.0230	.0185	-.0152	.0108	.0504	.0664	.0664	.1272	.0447	-.0295	.0239	-.0226	.0323	-.0413
324.000	.3147	.0530	-.0289	.0174	-.0103	.0082	.0433	.0630	.0630	.0433	.0368	-.0497	.0174	-.0390	.0595	-.0513
342.000	.3534	.0761	-.0181	-.0211	-.0032	.0060	.0347	.0272	.0272	.3329	-.0260	-.0600	.0487	-.0550	.0557	-.0533
360.000	.4265	.1093	.0034	-.0017	.0034	.0187	.0696	.0593	.0593	9.9990	.0215	-.0674	-.0592	-.0551	-.0544	-.0384
378.000	.9116	.9836								.2524						

MSFC 567(IA32F) T9 S3/2 S3/2 03 EXTERNAL TANK (R82T02)

MACH (7) = 2.990 BETA (1) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.9836
PHI		
162.000	-.0395	-.0309
180.000	-.0435	-.0405
198.000	-.0330	-.0349
216.000	-.0261	-.0224
234.000	-.0166	.0093
252.000	.0167	.0435
270.000	-.0112	-.0112
288.000	-.0414	.0167
306.000	-.0230	.0097
324.000	.0105	-.0916
342.000	-.0066	-.0677
360.000	.0472	-.0998

MACH (7) = 2.990 BETA (2) = -4.000 Q = 5.1898 PTA = 30.020 RL = 4.1200 PSA = .82960

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
18.000	.4326	.1081	.0165	.0154	.0184	.0310	.0701	.0828	.0027	-.0019	.0249	.0204	-.0041	-.0165	
36.000	.4609	.1241	.0005	-.0024	.0009	.0169	.0635	.1300	.0240	-.0062	.0114	.0100	.0237	.0209	
54.000	.4916	.1495	.0007	.0030	-.0021	.0179	.0945	.1673	.1149	-.0034	-.0190	.0000	.0323	.0304	
72.000	.5085	.1628	.0009	-.0013	-.0013	.0206	.0861	.1215	.0671	-.0197	-.0209	.0234	.0260	.0290	
90.000	.5257	.1710	.0031	-.0001	.0031	.0441	.3492	.1279	-.0262	-.0392	.0380	.0547	.0398	.0215	-.0193
108.000	.5219	.1713	.0016	-.0009	.0105	.3169	.6314	.1892	-.0764	-.0599	-.0319	-.0316	-.0255	-.0092	
126.000	.5201	.1695	-.0005	-.0035	.0031	.0500	.3414	.1222	-.0601	-.0749	.0473	-.0265	-.0268	-.0231	-.0071
144.000	.4983	.1552	-.0052	-.0066	-.0075	.0118	.0703	.0938	.0152	-.0555	.0548	-.0257	.0101	-.0116	-.0067
162.000	.4808	.1433	-.0116	-.0153	-.0156	-.0041	.0286	.0293	-.0041	-.0153	-.0369	-.0387	.0082	-.0056	-.0078
180.000	.4529	.1277	-.0205	-.0246	-.0246	-.0197	.0205	.0081	-.0041	-.0164	.0000	-.0171	.0231	-.0160	-.0149
198.000	.3915	.0914	-.0424	-.0435	-.0398	-.0260	-.0052	-.0017	.0190	.0209	.0030	.0174	.0275	-.0323	-.0297
216.000	.3717	.0765	-.0465	-.0487	-.0316	-.0215	.0202	.0055	.0301	-.0055	.0019	-.0211	.0237	-.0308	-.0304
234.000	.3404	.0668	-.0498	-.0439	-.0256	-.0204	.0038	-.0390	.0116	-.0509	.0465	-.0140	.0219	-.0271	-.0099
252.000	.3356	.0627	-.0480	-.0345	-.0230	-.0165	.2278	.0832	-.0603	-.0749	.0473	.0265	.0268	-.0231	-.0071
270.000	.3315	.0612	-.0457	-.0293	-.0204	.0619	.5842	.1033	-.0793	-.0334	.0573	.0396	-.0025	-.0092	
288.000	.3404	.0642	-.0461	-.0001	.0181	.0019	.1658	.1014	-.0040	-.0342	.0286	-.0078	.0175	.0141	.0077
306.000	.3497	.0727	-.0398	-.0338	-.0144	.0112	.0597	.0783	.1406	.0701	-.0379	.0060	-.0032	-.0181	-.0096
324.000	.3762	.0851	-.0312	-.0327	-.0118	.0120	.0653	.1103	.1033	.0082	-.0263	.0075	.0030	-.0230	-.0209
342.000	.3671	.0973	-.0204	-.0241	-.0114	.0075	.0515	.0854	.3229	-.0401	.0054	.0444	.0097	-.0209	-.0296
360.000	.4326	.1081	.0165	.0154	.0184	.0310	.0701	.0828	9.9990	.0027	-.0019	.0249	.0204	-.0041	-.0165
378.000									.2919						

TABULATED SOURCE DATA, NSFC TMT 587 (1A32F)

(R02T02)

DATE 05 SEP 75

NSFC 587(1A32F) TO 53/2 53/2 03 EXTERNAL TANK

MACH (7) = 2.980 BETA (2) = -.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .9116 .9836

PHI	.000	.0416	-.1028
18.000	.0457	.1083	
36.000	.0539	.1467	
54.000	.0249	.1418	
72.000	.0209	.0873	
90.000	.0362	-.0029	
108.000	.0189	.0327	
126.000	.0021	.0032	
144.000	-.0127	.0070	
162.000	-.0194	-.0138	
180.000	-.0252	-.0256	
198.000	-.0271	-.0193	
216.000	-.0204	-.0070	
234.000	-.0043	.0153	
252.000	.0189	.0327	
270.000	.0127	-.0181	
288.000	-.0104	.0181	
306.000	-.0084	.0500	
324.000	.0205	-.0118	
342.000	.0295	-.0737	
360.000	.0416	-.1028	

MACH (7) = 2.980 BETA (3) = .000 Q = 5.1898 PTA = 30.020 PFA = 4.1200 PSA = .82360

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.0943	-.0051	.0011	.0168	.0179	.0716	.0727	.2409	-.0010	.0287	.0658	.0371	-.0041	-.0360
18.000	.1130	.0953	-.0205	-.0168	-.0056	.0088	.0684	.0967	.1578	-.0261	-.0010	.0487	.0193	-.0093	-.0211
36.000	.1445	.0994	-.0291	-.0238	-.0160	.0081	.0751	.1183	.1508	.0643	.0302	.0145	.0085	-.0019	-.0160
54.000	.1074	.1001	-.0332	-.0283	-.0153	.0100	.0759	.0729	.1508	.0636	-.0451	-.0363	.0133	.0015	-.0021
72.000	.1152	.0980	-.0346	-.0309	-.0116	.0081	.3005	.1038	-.0272	-.0387	-.0272	.0111	-.0101	.0032	.0211
90.000	.1089	.0986	-.0380	-.0324	-.0104	.1984	.6324	.1563	-.0272	-.0842	-.0510	-.0577	-.0532	-.0282	-.0133
108.000	.1119	.1042	-.0410	-.0358	-.0183	.0129	.2901	.1042	-.0683	-.0838	-.0566	-.0518	-.0380	.0224	.0006
126.000	.1083	.1073	-.0386	-.0353	-.0287	-.0077	.0220	-.0002	.0184	-.0610	-.0678	-.0324	.0235	-.0261	-.0067
144.000	.1299	.1018	-.0386	-.0353	-.0319	-.0192	.0168	.0072	-.0383	-.0047	-.0185	-.0301	-.0204	-.0207	-.0207
162.000	.1190	.1035	-.0399	-.0361	-.0332	-.0278	-.0168	-.0022	.0100	-.0075	.0107	.0104	.0197	.0332	.0279
180.000	.1224	.1028	-.0386	-.0353	-.0334	-.0316	-.0293	.0129	.0377	.0440	.0178	-.0071	.0227	.0358	.0309
198.000	.1190	.1035	-.0399	-.0361	-.0332	-.0279	-.0168	-.0022	.0100	-.0075	.0107	.0104	.0197	.0332	.0279
216.000	.1299	.1018	-.0386	-.0353	-.0319	-.0192	.0168	.0072	-.0383	-.0047	-.0185	-.0301	-.0204	-.0207	-.0207
234.000	.1083	.1003	-.0395	-.0353	-.0267	-.0077	.0220	-.0002	.0184	-.0610	-.0678	-.0324	.0235	-.0261	-.0067
252.000	.1119	.1042	-.0410	-.0358	-.0183	.0129	.2901	.1042	-.0683	-.0838	-.0566	-.0518	-.0380	.0224	.0006
270.000	.1089	.0986	-.0380	-.0324	-.0104	.1984	.6324	.1563	-.0272	-.0842	-.0510	-.0577	-.0532	-.0282	-.0133

TABLATED SOURCE DATA, MSFC TWT 567 (1A32F)

(R82102)

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

MACH (7) = 2.990 BETA (3) = .000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1590	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5095	.5732	.6408	.7085	.7762	.8439
PHI	.0690	-.0348	-.0308	-.0116	.0081	.3005	.1038	-.0272	-.0387	-.0272	.0111	-.0101	.0032	.0211	.0211
268.000	.4152	.0690	-.0348	-.0308	-.0116	.0081	.3005	.1038	-.0272	-.0387	-.0272	.0111	-.0101	.0032	.0211
306.000	.4074	.1001	-.0332	-.0283	-.0193	.0100	.0759	.0729	.1508	.0636	-.0451	-.0365	.0133	-.0015	.0021
324.000	.4145	.0994	-.0291	-.0238	-.0160	.0031	.0751	.1183	.1978	.0643	-.0302	-.0145	.0085	-.0019	-.0160
342.000	.4130	.0953	-.0205	-.0168	-.0056	.0088	.0684	.0967	.2409	-.0261	-.0010	.0487	.0193	-.0093	-.0211
360.000	.4187	.0943	-.0051	.0011	.0168	.0179	.0716	.0727	9.9990	-.0010	.0297	.0568	.0371	-.0341	-.0360
378.000									.2409						

X/LT .9116 .9836

PHI

.000	.0405	-.1043
18.000	.0181	-.0171
36.000	-.0007	.0640
54.000	.0170	.0871
72.000	.0129	.0095
90.000	.0272	-.0226
108.000	.0215	.0066
126.000	.0059	.0234
144.000	-.0137	.0023
162.000	-.0261	-.0197
180.000	-.0253	-.0227
198.000	-.0261	-.0197
216.000	-.0137	.0023
234.000	.0059	.0234
252.000	.0215	.0066
270.000	.0272	-.0226
288.000	.0129	.0095
306.000	.0170	.0871
324.000	-.0007	.0640
342.000	.0181	-.0171
360.000	.0405	-.1043

MACH (7) = 2.990 BETA (4) = 4.000 0 = 5.1898

PTA = 30.020

RL = 4.1200

PSA = .82960

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4291	.1149	-.0002	-.0040	-.0017	.0157	.0671	.0951	.3229	-.0401	-.0064	.0224	.0205	-.0251	-.0152
18.000	.3971	.0973	-.0204	-.0241	-.0114	.0075	.0515	.0854	.1033	.0082	-.0263	.0444	.0097	-.0229	-.0225
36.000	.3782	.0861	-.0312	-.0327	-.0118	.0120	.0653	.1100	.1406	.0701	-.0379	.0250	.0030	-.0221	-.0212
54.000	.3497	.0727	-.0398	-.0338	-.0144	.0112	.0597	.0783	.1406	.0701	-.0379	.0250	.0032	-.0151	-.0225
72.000	.3404	.0642	-.0461	-.0308	-.0181	.0019	.1869	.1014	-.0040	-.0342	.0285	-.0278	-.0175	-.0141	-.0225
90.000	.3315	.0612	-.0457	-.0293	-.0204	.0619	.5942	.1003	-.0793	-.0334	-.0272	-.0255	-.0255	-.0255	-.0255

(R02T02)

EXTERNAL TANK

MACH (7) = 2.800 BETA (4) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2897	.2707	.3139	.3459	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8438
PHI															
108.000	.3358	.0627	-.0480	-.0345	-.0230	-.0166	.2278	.0632	-.0603	-.0767	-.0465	-.0472	-.0334	-.0092	.0019
126.000	.3404	.0658	-.0488	-.0439	-.0258	-.0204	.0038	-.0380	.0116	-.0509	-.0465	-.0140	-.0219	-.0271	-.0099
144.000	.3717	.0765	-.0465	-.0487	-.0316	-.0215	.0202	.0056	-.0301	-.0055	.0019	-.0211	-.0237	-.0308	-.0304
162.000	.3915	.0914	-.0424	-.0435	-.0398	-.0260	-.0052	-.0017	.0190	.0209	.0030	-.0174	-.0275	-.0323	-.0297
180.000	.4194	.1074	-.0327	-.0372	-.0357	-.0304	-.0222	-.0077	.0368	.0306	-.0014	-.0189	-.0271	-.0289	-.0256
198.000	.4529	.1277	-.0205	-.0246	-.0246	-.0197	.0205	.0081	-.0041	-.0164	.0000	-.0171	-.0231	-.0160	-.0149
216.000	.4808	.1433	-.0116	-.0153	-.0156	-.0041	.0286	.0293	-.0041	-.0153	-.0369	-.0387	-.0092	-.0056	-.0078
234.000	.4983	.1552	-.0052	-.0086	-.0075	.0118	.0703	.0938	.0152	-.0555	-.0648	-.0257	-.0101	-.0116	-.0267
252.000	.5201	.1695	-.0005	-.0035	.0031	.0500	.3414	.1222	-.0601	-.0767	-.0465	-.0472	-.0334	-.0092	.0019
270.000	.5219	.1713	.0016	-.0009	.0106	.3169	.6314	.1892	-.0764	-.0599	-.0319	-.0316	-.0255	-.0092	.0019
288.000	.5257	.1710	.0031	-.0309	.0031	.0441	.3492	.1278	-.0262	-.0392	-.0380	-.0547	-.0398	-.0215	.0193
306.000	.5085	.1628	.0007	-.0013	-.0013	.0206	.0861	.1215	.0921	.0671	-.0197	-.0209	.0234	.0260	.0290
324.000	.4916	.1495	.0000	.0030	-.0021	.0179	.0945	.1673	.2819	.1149	-.0034	-.0190	.0030	.0323	.0304
342.000	.4609	.1241	.0005	-.0024	.0009	.0169	.0835	.1300	.2919	.0240	-.0062	.0114	.0100	.0237	.0209
360.000	.4291	.1149	-.0002	-.0040	-.0017	.0157	.0571	.0951	9.9990	-.0263	-.0056	.0224	.0205	-.0051	-.0152
378.000															

X/LT .9116 .9836

PHI	.0558	-.1046
18.000	.0295	-.0707
36.000	.0205	-.0118
54.000	-.0084	.0500
72.000	-.0104	.0181
90.000	.0127	-.0181
108.000	.0045	.0224
126.000	-.0043	.0153
144.000	-.0204	-.0070
162.000	-.0271	-.0193
180.000	-.0271	-.0275
198.000	-.0194	-.0138
216.000	-.0127	.0070
234.000	.0021	.0032
252.000	.0045	.0224
270.000	.0362	-.0029
288.000	.0209	.0073
306.000	.0249	.1418
324.000	.0539	.1467
342.000	.0457	.1083
360.000	.0558	-.1046

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OF POOR QUALITY

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R02102)

EXTERNAL TANK

MACH (7) = 2.990 BETA (5) = 8.000 Q = 5.1958 PTA = 30.020 RL = 4.1200 PSA = .82960

MSFC 567(1A32F) 19 53/2 53/2 03

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI .000	.4135	.1029	.0116	.0056	.0105	.0228	.0742	.0720	.3329	-.0260	-.0775	-.0507	-.0547	-.0506	-.0380
18.000	.3534	.0761	-.0181	-.0211	-.0032	.0060	.0347	.0272	.0433	-.0368	-.0487	-.0174	-.0390	-.0667	-.0532
36.000	.3147	.0530	-.0289	-.0174	-.0103	.0082	.0433	.0630	.1272	.0347	-.0286	.0239	-.0226	-.0595	-.0513
54.000	.2692	.0384	-.0230	-.0185	-.0152	.0108	.0504	.0664	.0669	.0394	.0371	-.0156	-.0024	-.0153	-.0387
72.000	.2539	.0267	-.0209	-.0216	-.0224	-.0078	.1303	.0695	.0669	-.0480	-.0302	-.0447	-.0115	-.0339	-.0440
90.000	.2450	.0205	-.0248	-.0263	-.0297	.0943	.1972	.0321	-.0522	-.0570	-.0345	-.0308	-.0219	-.0237	-.0312
108.000	.2521	.0230	-.0324	-.0309	-.0312	.0283	.1932	.0390	-.0163	-.0323	-.0099	-.0211	-.0263	-.0253	-.0252
126.000	.2666	.0302	-.0413	-.0338	-.0326	.0293	.0193	.0029	-.0289	-.0003	-.0153	-.0268	-.0294	-.0305	-.0246
144.000	.3113	.0457	-.0546	-.0419	-.0358	.0272	.0082	.0041	.0126	.0098	-.0237	-.0427	-.0413	-.0326	-.0323
162.000	.3486	.0688	-.0473	-.0503	-.0358	-.0272	.0082	.0041	.0015	-.0215	-.0353	-.0427	-.0413	-.0326	-.0323
180.000	.4071	.1018	-.0334	-.0398	-.0375	-.0332	.0245	-.0088	.0015	-.0215	-.0353	-.0427	-.0413	-.0326	-.0323
198.000	.4711	.1403	-.0127	-.0194	-.0212	-.0190	.0150	-.0074	-.0052	-.0328	-.0514	-.0510	-.0425	-.0291	-.0309
216.000	.5318	.1742	.0073	.0006	-.0015	.0055	.0446	.0688	.0219	-.0328	-.0514	-.0510	-.0425	-.0291	-.0309
234.000	.5806	.2081	.0252	.0178	.0167	.0401	.0971	.1873	.0081	-.0570	-.0618	-.0205	-.0308	-.0219	-.0237
252.000	.6246	.2353	.0390	.0308	.0282	.0807	.1366	.2443	.0081	-.0570	-.0618	-.0205	-.0308	-.0219	-.0237
270.000	.6335	.2439	.0439	.0368	.0431	.1068	.1610	.2811	.0081	-.0570	-.0618	-.0205	-.0308	-.0219	-.0237
288.000	.6343	.2390	.0390	.0306	.0319	.0737	.1336	.3110	.0081	-.0570	-.0618	-.0205	-.0308	-.0219	-.0237
306.000	.5928	.2196	.0306	.0205	.0187	.0392	.1003	.1905	.0593	-.0005	.0073	.0170	.0878	.0737	.0628
324.000	.5508	.1858	.0141	.0073	.0047	.0163	.0718	.1694	.3154	.1433	.0285	.0144	.0159	.0342	.0379
342.000	.4845	.1422	-.0015	-.0071	-.0048	.0189	.0856	.1575	.2524	.1079	.0267	-.0041	-.0164	-.0071	.0502
360.000	.4135	.1029	.0116	.0056	.0105	.0228	.0742	.0720	9.9933	-.0077	-.0775	-.0507	-.0547	-.0506	-.0380
378.000									3.329						

SECTION (2) EXTERNAL TANK

X/LT	.9116	.9836
PHI .000	.0517	-.0994
18.000	-.0066	-.0677
36.000	.0105	-.0916
54.000	-.0230	.0097
72.000	-.0414	.0167
90.000	-.0712	-.0112
108.000	-.0170	.0220
126.000	-.0166	.0093
144.000	-.0261	-.0224
162.000	-.0330	-.0349
180.000	-.0420	-.0427
198.000	-.0395	-.0309
216.000	-.0220	-.0048
234.000	-.0045	-.0015
252.000	-.0170	.0220
270.000	.0465	.0003
288.000	.0416	.0255
306.000	.0520	.1489
324.000	.0703	.2223

TABULATED SOURCE DATA, MSFC INT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) 19 53/2 53/2 03 EXTERNAL TANK

(182102)

MACH (7) = 2.960 BETA (5) = 0.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9118 .9836

PHI
342.000 .0668 .1508
360.000 .0517 -.0654

MACH (8) = 3.500 BETA (1) = -8.000 0 = 5.7182 PTA = 50.033 FS = 5.3300 PSA = .57500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7065 .7762 .8439

PHI
.000 .4225 .1167 .0223 .0193 .0213 .0342 .0626 .0595 .2238 .1342 .0500 .0321 .0284 .0311 .0284
18.000 .4774 .1481 .0192 .0121 .0131 .1324 .0754 .1420 .2638 .1342 .0500 .0321 .0284 .0311 .0284
36.000 .5443 .1895 .0266 .0222 .0195 .0266 .0671 .1564 .2780 .1642 .0473 .0300 .0213 .0351 .0473
54.000 .5696 .2207 .0405 .0334 .0304 .0432 .0868 .1450 .0841 .0307 .0135 .0131 .0645 .0787 .0586
72.000 .6326 .2393 .0497 .0432 .0402 .0794 .3584 .1751 -.0050 .0365 .0304 .0253 .0911 .0936 .0875
90.000 .5326 .2454 .0527 .0469 .0466 .4047 .7645 .2637 .0500 .0365 .0361 .0010 .0169 .0394 .0054
108.000 .6214 .2383 .0495 .0424 .0404 .1008 .3724 .1735 -.0311 .0504 .0355 .0074 .0165 .0047 .0013
126.000 .5782 .2120 .0375 .0307 .0287 .0456 .0973 .1470 .0419 .0334 .0422 .0216 .0054 .0098 .0054
144.000 .5305 .1768 .0219 .0162 .0135 .0148 .0466 .0605 .0267 .0125 .0338 .0368 .0172 .0125 .0114
162.000 .4659 .1443 .0043 .0030 .0057 .0050 .0040 .0108 .0050 .0189 .0304 .0385 .0324 .0256 .0219
180.000 .4013 .1065 .0162 .0209 .0219 .0185 .0114 .0010 .0003 .0172 .0284 .0311 .0334 .0297 .0229
198.000 .3432 .0764 .0273 .0307 .0307 .0185 .0138 .0010 .0104 .0101 .0168 .0329 .0334 .0297 .0229
216.000 .3070 .0541 .0321 .0219 .0155 .0138 .0304 .0006 .0162 .0047 .0206 .0343 .0355 .0175 .0165
234.000 .2620 .0385 .0223 .0169 .0152 .0125 .1389 .0047 .0121 .0199 .0243 .0074 .0165 .0047 .0013
252.000 .2464 .0321 .0155 .0142 .0162 .0125 .1389 .0304 .0344 .0504 .0355 .0074 .0165 .0047 .0013
270.000 .2400 .0300 .0091 .0101 .0131 .0757 .2701 .0398 .0344 .0327 .0054 .0040 .0101 .0175 .0200
288.000 .2510 .0305 .0040 .0432 .0077 .0002 .1157 .0548 .0589 .0447 .0544 .0040 .0167 .0013 .0185
306.000 .2667 .0449 .0057 .0023 .0006 .0142 .0442 .0608 .1051 .0463 .0185 .0267 .0016 .0138 .0199
324.000 .3068 .0639 .0094 .0009 .0034 .0149 .0365 .0555 .0538 .0117 .0307 .0104 .0250 .0456 .0392
342.000 .3542 .0866 .0002 .0046 .0085 .0146 .0321 .0335 .3420 .0073 .0307 .0280 .0361 .0453 .0375
360.000 .4225 .1167 .0223 .0193 .0213 .0342 .0626 .0595 .9.9990 .0078 .0338 .0321 .0274 .0311 .0284
378.000 .9118 .9836

PHI
.000 .0513 -.0693
18.000 .0608 .1629
36.000 .0578 .1751
54.000 .0518 .1261
72.000 .0584 .0290
90.000 .0355 .0165
108.000 .0165 .0473
126.000 .0071 -.0013
144.000 -.0145 -.0003

TABULATED SOURCE DATA, NSFC TMT 567 (1A32F)

DATE 05 SEP 75

(182702)

NSFC 567(1A32F) TO S3/2 S3/2 03 EXTERNAL TANK

MACH (8) = 3.500 BETA (2) = -4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9838

PHI	.069	.0371	-.0710
18.000	.0405	.1095	
36.000	.0236	.1153	
54.000	.0290	.1021	
72.000	.0209	.0657	
90.000	.0263	.0030	
108.000	.0104	.0300	
126.000	.0040	.0077	
144.000	-.0058	.0047	
162.000	-.0145	-.0128	
180.000	-.0182	-.0185	
198.000	-.0204	-.0174	
216.000	-.0182	-.0083	
234.000	.0084	.0138	
252.000	.0104	.0300	
270.000	.0232	-.0058	
288.000	.0037	.0128	
306.000	.0040	.0310	
324.000	.0165	.0003	
342.000	.0574	-.0267	
360.000	.0371	-.0710	

MACH (8) = 3.500 BETA (3) = .000 Q = 9.7182 PTA = 50.033 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.4141	.1032	.0112	.0159	.0213	.0240	.0277	.0843	.0727	.0182	.0253	.0578	.0524	.0193
18.000	.4090	.1025	-.0033	-.0006	.0075	.0148	.0148	.0676	.0606	.0876	.2263	.0051	.0440	.0368	-.0080
36.000	.4108	.1065	-.0091	-.0060	.0003	.0131	.0652	.1024	.0652	.1024	.1281	.0912	-.0050	-.0073	.0028
54.000	.4040	.1054	-.0145	-.0108	.0006	.0131	.0615	.0794	.0615	.0794	.1278	.0794	-.0158	-.0300	.0179
72.000	.4111	.1041	-.0175	-.0138	.0016	.0138	.2194	.1406	-.0077	-.0192	-.0324	.0199	.0003	-.0013	-.0206
90.000	.4037	.1041	-.0199	-.0162	.0013	.1217	.7161	.1829	-.0564	-.0527	-.0351	-.0415	-.0337	-.0214	-.0202
108.000	.4066	.1079	-.0219	-.0162	-.0056	.0152	.2287	.1114	-.0388	-.0604	-.0469	-.0412	-.0337	-.0212	-.0212
126.000	.4050	.1056	-.0209	-.0178	-.0131	.0034	.0200	-.0006	.0399	-.0371	-.0500	-.0321	-.0172	-.0240	-.0205
144.000	.4172	.1051	-.0213	-.0196	-.0179	.0040	.0175	.0054	-.0205	-.0043	-.0084	-.0189	-.0158	-.0135	-.0219
162.000	.4142	.1078	-.0229	-.0206	-.0196	.0016	.0179	.0015	.0077	-.0057	.0243	-.0047	-.0114	-.0152	-.0219
180.000	.4175	.1071	-.0223	-.0202	-.0199	-.0233	.0074	-.0027	.0300	.0432	.0253	-.0003	-.0094	-.0135	-.0219
198.000	.4142	.1078	-.0229	-.0206	-.0196	.0016	.0179	.0015	.0077	-.0057	.0243	-.0047	-.0114	-.0152	-.0219
216.000	.4172	.1061	-.0213	-.0196	-.0179	.0040	.0175	.0054	-.0205	-.0043	-.0084	-.0189	-.0158	-.0135	-.0219
234.000	.4050	.1056	-.0209	-.0178	-.0131	.0034	.0200	-.0006	.0399	-.0371	-.0500	-.0321	-.0172	-.0240	-.0205
252.000	.4066	.1079	-.0219	-.0162	-.0056	.0152	.2287	.1114	-.0388	-.0604	-.0469	-.0412	-.0337	-.0214	-.0202
270.000	.4037	.1041	-.0199	-.0162	.0013	.1217	.7161	.1829	-.0564	-.0527	-.0351	-.0415	-.0337	-.0214	-.0202

ORIGINAL PAGE IS OF POOR QUALITY

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

(R82T02)

DATE 05 SEP 75

EXTERNAL TANK

MACH (8) = 3.500 BETA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.6757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4111	.1041	-.0175	-.0138	.0016	.0138	.2194	.1406	-.0077	-.0192	-.0324	.0199	.0003	-.0013	-.0206
288.000	.4040	.1054	-.0145	-.0108	.0006	.0131	.0615	.0794	.1278	.0794	-.0158	-.0300	.0179	.0108	-.0104
306.000	.4188	.1065	-.0091	-.0060	.0003	.0131	.0652	.1024	.1281	.0912	-.0050	-.04.3	.0071	.0098	-.0111
324.000	.4050	.1025	-.0033	-.0006	.0075	.0149	.0606	.0876	.2263	-.0036	.0051	.0440	.0368	.0084	-.0080
342.000	.4141	.1032	.0112	.0159	.0213	.0240	.0643	.0727	9.9990	.0162	.0253	.0578	.0524	.0192	-.0131
360.000															
378.000															

X/LT .9116 .9836

PHI

.000	.0081	-.0814
18.000	.0047	-.0091
36.000	-.0019	.0602
54.000	.0125	.0778
72.000	.0226	.0033
90.000	.0305	-.0138
108.000	.0247	.0044
126.000	.0071	.0250
144.000	-.0131	.0433
162.000	-.0199	-.0189
180.000	-.0175	-.0185
198.000	-.0199	-.0189
216.000	-.0131	.0003
234.000	.0071	.0250
252.000	.0247	.0044
270.000	.0305	-.0138
288.000	.0226	.0033
306.000	.0125	.0778
324.000	-.0019	.0602
342.000	.0047	-.0091
360.000	.0081	-.0814

MACH (8) = 3.500 BETA (4) = 4.000 Q = 5.7192 PTA = 50.033 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4273	.1208	.0240	.0196	.0237	.0335	.0616	.0876	.3170	.0071	.0084	.0264	.0253	.0155	-.0007
18.000	.3951	.1042	.0051	-.0002	.0118	.0222	.0545	.0707	.0974	-.0104	.0205	.0138	.0284	-.0013	-.0179
36.000	.3735	.0941	-.0050	-.0080	.0098	.0237	.0582	.0934	.1281	.0274	-.0145	.0223	.0111	-.0206	-.0165
54.000	.3442	.0811	-.0152	-.0077	.0054	.0199	.0551	.0760	.0912	.0912	-.0087	.0050	.0172	-.0205	-.0025
72.000	.3371	.0737	-.0175	-.0060	.0020	.0135	.0332	.1021	.0091	-.0020	.0355	.0169	.0006	.0138	.0219
90.000	.3251	.0694	-.0205	-.0090	-.0029	.0406	.07304	.1059		-.0473	-.0132	-.0270	-.0325	-.0078	.0028

TABULATED SOURCE DATA, MSFC THT 567 (1A32F)

(R62T02)

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

MACH (6) = 3.500 BETA (5) = 9.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X-UT .9116 .9836

PHI
342.000 .0608 .1629
360.000 .0524 -.0686

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OF POOR QUALITY

MSFC 967(1A32F) T9 53/2 53/2 03 EXTERNAL TANK

(R82T03) (24 APR 74

REFERENCE DATA

SREF = 6.1966 SQ. IN. XPRP = 2.5490 IN. ALPHA = 5.000 CONF10 = 90.000
LREF = 5.3130 IN. YPRP = .0000 IP. DELTAZ = .140 RUDDER = .000
BREF = 5.3130 IN. ZPRP = 0.000 IN. X-SRB = .000 ORBITALC = .500
SCALE = 0040 SCALE

PARAMETRIC DATA

MACH (1) = .600 BETA (1) = -.4.000 0 = 4.3330 PTA = 22.007 RL = 4.9867 PSA = 17.270

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

Table with columns for PH1 and X/LT values ranging from .000 to .9836. The table contains multiple rows of numerical data corresponding to the dependent variable CP.

Table with columns for PH1 and X/LT values ranging from .000 to .9836. This table appears to be a continuation or a specific subset of the data in the previous table.

DATE 05 SEP 75 TABULATED SOURCE DATA, MSFC TMT 987 (1A32F)

(R82703)

EXTERNAL TANK

MSFC 987(1A32F) T9 53/2 53/2 03

SECTION (1) EXTERNAL TANK BETA (1) = -4.000

DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI		
216.000	-.0091	-.1044
234.000	.0159	-.0737
252.000	.0744	-.0172
270.000	.1426	-.0963
288.000	.0734	-.0903
306.000	.0115	-.1134
324.000	.0232	-.1800
342.000	.0785	-.3531
360.000	.1667	-1.0339

SECTION (1) EXTERNAL TANK BETA (2) = .000 0 = 4.3330 PTA = 22.007 RL = 4.9867 PSA = 17.270

DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI														
000.000	-.0296	-.3326	-.2036	-.0913	.0438	.1306	.2017	.2008	-.6511	-.2892	-.1045	.0035	.0545	.0741
18.000	-.0414	-.3215	-.2396	-.0757	.0396	.1392	.1550	.1285	-.1717	-.1481	-.1023	-.0220	.0422	.0670
36.000	-.0281	-.3102	-.2355	-.1072	.0219	.0474	.0430	.0175	-.1204	-.0914	-.0290	.0008	.0288	.0543
54.000	-.0080	-.2978	-.2135	-.0633	.0165	-.0141	-.0976	-.0976	-.1169	-.0826	-.0484	.0052	.0386	.0541
72.000	.0264	-.2833	-.1390	-.0202	.0345	-.0281	-.4144	-.2516	-.2199	-.0756	-.0450	.0087	.0422	.0551
90.000	.0518	-.2616	-.0872	.0456	.1750	.1971	-.1665	-.3584	-.0221	-.0520	-.0273	-.0043	.0264	.0511
108.000	.1083	-.2416	-.1526	.0581	.1498	.1586	-.1279	-.1684	-.1561	-.0168	-.0212	-.0035	.0149	.0663
126.000	.1479	-.2167	-.1700	-.1013	.0634	.0510	-.0581	-.0889	-.0616	-.0273	-.0158	-.0008	.0079	.0149
144.000	.1843	-.2057	-.1904	-.1428	.0079	.0264	-.0458	-.0035	-.0423	-.0317	-.0158	-.0008	.0034	.0096
162.000	.2080	-.1916	-.1995	-.1406	-.0133	-.0062	-.0194	-.0291	-.0352	-.0247	-.0106	.0042	.0086	.0095
180.000	.2199	-.1859	-.1982	-.1498	-.0106	-.0106	-.0159	-.0265	-.0265	-.0159	-.0140	-.0026	.0044	-.0212
198.000	.2080	-.1916	-.1995	-.1406	-.0133	-.0062	-.0194	-.0291	-.0352	-.0247	-.0106	.0042	.0086	.0095
216.000	.1843	-.2037	-.1904	-.1428	.0079	.0264	-.0458	-.0035	-.0423	-.0317	-.0158	-.0008	.0034	.0096
234.000	.1479	-.2167	-.1700	-.1013	.0634	.0510	-.0581	-.0889	-.0616	-.0273	-.0158	-.0008	.0079	.0149
252.000	.1083	-.2416	-.1526	.0581	.1498	.1586	-.1279	-.1684	-.1551	-.0168	-.0212	-.0035	.0149	.0663
270.000	.0518	-.2616	-.0872	.0456	.1750	.1971	-.1665	-.3584	-.0221	-.0520	-.0273	-.0043	.0264	.0511
288.000	.0264	-.2833	-.1390	-.0202	.0345	-.0281	-.4144	-.2516	-.2199	-.0756	-.0450	.0087	.0422	.0551
306.000	-.0080	-.2978	-.2135	-.0633	.0165	-.0141	-.0976	-.0976	-.1169	-.0826	-.0484	.0052	.0386	.0541
324.000	-.0281	-.3102	-.2355	-.1072	.0219	.0474	.0430	.0175	-.1204	-.0914	-.0290	.0008	.0288	.0543
342.000	-.0414	-.3215	-.2396	-.0757	.0396	.1392	.1550	.1285	-.1717	-.1481	-.1023	-.0220	.0422	.0670
360.000	-.0386	-.3326	-.2036	-.0913	.0438	.1306	.2017	.2008	-.6511	-.2892	-.1045	.0035	.0545	.0741

X/LT .9116 .9836

PHI		
.000	.0880	-.5647
18.000	.0510	-.2845

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

(R62103)

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

DATE 05 SEP 75

MACH (1) = .670 BETA (2) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9635

PHI	
36.000	.0315
54.000	-.0783
72.000	.0096
90.000	-.0569
108.000	.0607
126.000	.0211
144.000	-.0562
162.000	-.0027
180.000	-.0123
198.000	-.0027
216.000	.0052
234.000	.0211
252.000	.0607
270.000	.1270
288.000	.0872
306.000	.0535
324.000	.0315
342.000	.0510
360.000	.0980

MACH (1) = .600 BETA (3) = .000 Q = 4.3330 PTA = 22.007 RL = 4.9867 PSA = 17.270

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6406 .7085 .7762 .8439

.000	-.0388	-.3297	-.2340	-.2232	.0492	.1282	.1994	.1949	-.4658	-.1616	-.0163	.0527	.0874	.1085
18.000	-.0630	-.3303	-.2119	-.0728	.0329	.1020	.1253	.0850	-.3340	-.3056	-.1165	.0006	.0519	.0771
36.000	-.0682	-.3219	-.1794	-.0691	.0249	.0563	.0303	-.0136	-.1686	-.1337	-.1395	-.0657	.0089	.0529
54.000	-.0639	-.3200	-.2211	-.0127	.0411	.0189	-.0855	-.0998	-.1331	-.0998	-.0711	-.0297	-.0055	.0187
72.000	-.0440	-.3155	-.1690	.0125	.0790	.0080	-.3919	-.2400	-.2301	-.0872	-.0539	.0070	.0286	.0555
90.000	-.0369	-.3070	-.1832	.0932	.1919	.2162	.1697	-.3402	-.0261	-.0576	-.0387	-.0190	.0142	.0465
108.000	.0089	-.3004	-.1895	.0603	.1514	.1658	-.1227	-.1552	-.1606	-.0181	-.0172	.0037	.0095	.0232
126.000	.0582	-.2756	-.2065	-.1149	.0573	.0537	.0521	-.0826	-.0674	-.0360	-.0217	-.0100	-.0020	.0097
144.000	.1082	-.2562	-.2201	-.1858	-.0054	.0018	-.0342	-.0541	-.0532	-.0460	-.0306	-.0199	-.0145	.0255
162.000	.1590	-.2230	-.2168	-.1720	-.0270	-.0190	-.0262	-.0386	-.0440	-.0395	-.0306	-.0207	-.0180	.0144
180.000	.2120	-.1881	-.1998	-.1485	-.0164	-.0191	-.0253	-.0289	-.0298	-.0226	-.0217	-.0127	-.0100	.0234
198.000	.2393	-.1552	-.1895	-.1312	-.0127	-.0100	-.0315	-.0334	-.0334	-.0226	-.0033	.0042	.0042	.0077
216.000	.2626	-.1449	-.1611	-.1026	.0178	.0079	-.0324	-.0423	-.0315	-.0163	.0006	.0124	.0178	.0241
234.000	.2563	-.1386	-.1269	-.0584	.0727	.0421	-.0729	-.0810	-.0522	-.0109	.0015	.0142	.0187	.0205
252.000	.2288	-.1559	-.0910	.0522	.1549	.1423	.1640	-.1577	-.1424	-.0181	-.0077	-.0037	.0036	.0239
270.000	.1816	-.1755	-.0918	.1024	.1825	.1915	.1845	-.3366	-.0045	-.0189	.0042	.0256	.0521	.0739
288.000	.1505	-.2093	-.1236	.0125	.0476	-.0316	-.4231	-.2409	-.1994	-.0307	-.0117	.0415	.0712	.1055
306.000	.0933	-.2505	-.1948	-.1006	-.0135	-.0449	-.1167	-.0835	-.0799	-.0422	.0127	.0127	.0493	.1078

TABLATED SOURCE DATA, MSFC TMT 967 (1A3EF)

DATE 05 SEP 75

(R62T03)

MSFC 967(1A3EF) TO S3/2 S3/2 03 EXTERNAL TANK

MACH (1) = .800 BETA (3) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1958	.2803	.2947	.2707	.3139	.3489	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.0331	-.2882	-.2485	-.1921	-.0127	.0269	.0412	.0511	-.0504	-.0531	-.0073	.0313	.0673	.0988	.1375
342.000	-.0171	-.3181	-.2791	-.1054	.0044	.0881	.1522	.1612	-.1216	-.0829	-.0126	.0384	.0716	.1001	.1324
360.000	-.0388	-.3257	-.2340	-.2232	.0482	.1282	.1994	.1949	9.9990	-.4858	-.1616	-.0163	.0527	.0374	.1085
378.000									-.3940						

X/LT .9116 .9836

PHI

.000	.1865	-.9610
18.000	.0785	-.3931
36.000	.0232	-.1860
54.000	.0115	-.1134
72.000	.0734	-.0503
90.000	.1426	-.0953
108.000	.0615	-.0252
126.000	.0152	-.0737
144.000	-.0091	-.1044
162.000	-.0243	-.1293
180.000	-.0271	-.1412
198.000	-.0065	-.1256
216.000	.0106	-.1056
234.000	.0331	-.0683
252.000	.0615	-.0252
270.000	.1450	-.0270
288.000	.1371	-.0398
306.000	.1087	-.0720
324.000	.1132	-.1818
342.000	.1687	-.4093
360.000	.1865	-.9610

MACH (2) = .800 BETA (1) = -4.000 0 = 7.3630 PTA = 22.008 RL = 6.2700 PSA = 13.033

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1250	.2203	.2347	.2707	.3139	.3489	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8435
PHI	.0305	-.4630	-.1956	-.1139	.1101	.2068	.2884	.2684	-.0269	-.2031	-.1542	.0083	.0869	.1213	.1617
18.000	.0938	-.4321	-.2997	-.0068	.0743	.1551	.2279	.2263	-.0269	-.2031	-.0501	.0400	.1027	.1437	.1975
36.000	.1088	-.3814	-.1801	-.0332	.0922	.0861	.0713	.0686	-.0597	-.1294	-.0612	.0280	.0566	.1357	.1996
54.000	.1617	-.3339	-.1495	-.0310	.0832	.0347	-.1348	-.1790	-.1037	-.0921	-.0956	.0016	.0628	.1189	.1668
72.000	.2333	-.2866	-.0666	.0609	.1423	.1010	-.2305	-.6114	-.1887	-.0655	-.0353	.0085	.0624	.1115	.1654
90.000	.2435	-.2465	-.0353	.1351	.2867	.3574	.2582	-.6932	-.0522	-.0301	.0346	.0255	.0916	.1222	.1617
108.000	.3173	-.2212	-.0870	.1182	.2592	.2930	.0686	-.8257	-.1298	-.0242	-.0284	.0168	.0321	.0617	.0970
126.000	.3495	-.1801	-.1435	.0493	.1574	.1452	-.0582	-.4911	-.0561	-.0201	-.0064	.0127	.0310	.0468	.0721

ORIGINAL PAGE IS OF POOR QUALITY

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82103)

EXTERNAL TANK

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03

MACH (2) = .900 BETA (1) = -.4.000

SECTION 1 (EXTERNAL TANK)

DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
144.000	.3460	-.1842	-.2715	-.0022	.0830	.0677	-.0642	-.2642	-.0590	-.0316	-.0100	.0088	.0194	.0341	.0552
162.000	.3181	-.2062	-.3817	.0180	.0338	.0227	-.0321	-.1681	-.0811	-.0431	-.0226	-.0042	.0063	.0159	.0327
180.000	.2911	-.2450	-.3909	-.0654	.0183	.0178	-.0464	-.1265	-.0928	-.0475	-.0326	-.0194	-.0078	.0037	.0557
198.000	.2453	-.2753	-.3641	-.0871	.0370	.0376	-.0626	-.1315	-.0955	-.0548	-.0363	-.0183	-.0062	.0027	.0180
216.000	.1906	-.3262	-.2865	-.0289	.0790	.0869	-.0188	-.1997	-.0881	-.0580	-.0332	-.0173	-.0041	.0080	.0275
234.000	.1393	-.3662	-.1736	.0416	.1641	.1751	-.0047	-.4010	-.0791	-.0464	-.0321	-.0152	.0005	.0169	.0870
252.000	.0835	-.4162	-.0592	.1031	.2708	.3173	.1020	-.6510	-.1576	-.0242	-.0084	-.0168	.0321	.0517	.0901
270.000	.0294	-.4487	-.0157	.1391	.3178	.3934	.2707	-.7463	-.1008	-.0950	-.0574	-.0574	-.0093	.0440	.1008
288.000	.0236	-.4644	-.0359	.0608	.2136	.1777	-.1546	-.7002	-.2480	-.0992	-.0902	-.0448	.0121	.0523	.1008
306.000	-.0021	-.4730	-.0553	.0742	.1590	.1427	-.0247	-.2960	-.2196	-.1222	-.1070	-.0496	-.0111	.0221	.1008
324.000	-.0015	-.4622	-.0905	.0278	.1352	.1741	.1189	-.0084	-.3027	-.1564	-.1721	-.1414	-.0469	.0418	.0978
342.000	-.0036	-.4746	-.1421	-.0036	.1248	.1988	.2259	.1486	-.4572	-.3921	-.3240	-.1253	.0264	.0908	.1234
360.000	.0305	-.4630	-.1556	-.1139	.1101	.2066	.2864	.2694	9.9990	-.6724	-.1542	.0083	.0969	.1213	.1617
378.000															

SECTION 2 (INTERNAL TANK)

X/LT	.9116	.9836
PHI		
18.000	.3043	-.8131
36.000	.2902	-.3818
54.000	.2233	-.0902
72.000	.1990	.0274
90.000	.2129	.1527
108.000	.1596	.0568
126.000	.1113	.0527
144.000	.0826	-.0053
162.000	.0536	-.0459
180.000	.0311	-.0707
198.000	.0132	-.0827
216.000	.0206	-.0722
234.000	.0365	-.0527
252.000	.0571	-.0263
270.000	.1113	.0527
288.000	.1911	-.0554
306.000	.1188	-.0110
324.000	.0737	-.0765
342.000	.0980	-.1519
360.000	.1519	-.4067
378.000	.3043	-.8131

TABULATED SOURCE DATA, MSFC TMT 967 (1A28F)

DATE 08 SEP 75

(R82T03)

MSFC 967(1A28F) TO 63/2 63/2 03 EXTERNAL TANK

PSA = 13.033

ML = 8.2700

PTA = 22.008

ETA = 7.3030

BETA (2) = .000 0

MACH (2) = .800

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1500	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.0343	-.4493	-.2866	-.0521	.1379	.2265	.3000	.2786	-.2864	-.8118	-.3410	-.1234	.0254	-.1053	.1377
18.000	.0275	-.4478	-.2337	-.0136	.1324	.2038	.2440	.1762	-.2864	-.1967	-.1830	-.0963	.0065	.0657	.1279
36.000	.0470	-.4358	-.3157	.0112	.1333	.1562	.1105	.0034	-.1966	-.1151	-.1181	-.0392	.0177	.0574	.1060
54.000	.0668	-.4228	-.1771	.0368	.1345	.1121	-.0538	-.2750	-.1600	-.1095	-.0887	-.0235	.0274	.0717	.1108
72.000	.1050	-.3980	-.0689	.0788	.1878	.1404	-.1787	-.5557	-.2079	-.1064	-.0792	-.0396	.0191	.0690	.1127
90.000	.1300	-.3819	-.0805	.1352	.3144	.3788	.2786	-.8809	-.1432	-.0423	-.0195	.0042	.0177	.0462	.0705
108.000	.1907	-.3283	-.0911	.1074	.2744	.3289	.1256	-.8828	-.1432	-.0423	-.0195	.0042	.0177	.0462	.0705
126.000	.2371	-.2844	-.3254	.0464	.1768	.1841	.0059	-.4112	-.0652	-.0402	-.0220	-.0053	.0117	.0294	.0512
144.000	.2779	-.2528	-.4328	.0027	.1088	.1066	-.0055	-.2012	-.0657	-.0382	-.0200	-.0035	.0100	.0235	.0464
162.000	.3091	-.2232	-.4453	-.0543	.0814	.0747	-.0068	-.1194	-.0807	-.0254	-.0158	-.0003	.0128	.0258	.0429
180.000	.3136	-.2234	-.4003	-.1352	.0650	.0526	-.0153	-.1165	-.0848	-.0254	-.0158	-.0003	.0128	.0258	.0429
198.000	.3091	-.2232	-.4453	-.0543	.0814	.0747	-.0068	-.1194	-.0807	-.0254	-.0158	-.0003	.0128	.0258	.0429
216.000	.2779	-.2528	-.4328	.0027	.1088	.1066	-.0055	-.2012	-.0657	-.0382	-.0200	-.0035	.0100	.0235	.0464
234.000	.2371	-.2844	-.3254	.0464	.1768	.1841	.0059	-.4112	-.0652	-.0402	-.0220	-.0053	.0117	.0294	.0512
252.000	.1907	-.3283	-.0911	.1074	.2744	.3289	.1256	-.8828	-.1432	-.0423	-.0195	.0042	.0177	.0462	.0705
270.000	.1300	-.3819	-.0805	.1352	.3144	.3788	.2786	-.8809	-.1432	-.0423	-.0195	.0042	.0177	.0462	.0705
288.000	.1050	-.3980	-.0689	.0788	.1878	.1404	-.1787	-.5557	-.2079	-.1064	-.0792	-.0396	.0191	.0690	.1127
306.000	.0668	-.4228	-.1771	.0368	.1345	.1121	-.0538	-.2750	-.1600	-.1095	-.0887	-.0235	.0274	.0717	.1108
324.000	.0470	-.4358	-.3157	.0112	.1333	.1562	.1105	.0034	-.1600	-.1095	-.0887	-.0235	.0274	.0717	.1108
342.000	.0275	-.4478	-.2337	-.0136	.1324	.2038	.2440	.1762	-.2864	-.1967	-.1830	-.0963	.0065	.0657	.1279
360.000	.0343	-.4493	-.2866	-.0521	.1379	.2265	.3000	.2786	-.2864	-.8118	-.3410	-.1234	.0254	-.1053	.1377
378.000															

X/LT .9118 .9836

PHI	.1513	-.5685
.000	.1218	-.2556
18.000	.0972	-.1225
36.000	.0771	-.0272
54.000	.1346	.0539
72.000	.1855	-.0075
90.000	.1210	.0514
108.000	.0756	.0007
126.000	.0589	.0259
144.000	.0488	-.0454
162.000	.0508	-.0384
180.000	.0488	-.0454
198.000	.0508	-.0384
216.000	.1218	.0514
234.000	.0756	-.0007
252.000	.1218	.0514
270.000	.1855	-.0075
288.000	.1346	.0539
306.000	.0972	-.1225
324.000	.0771	-.0272

TABLATED SOURCE DATA. MSFC TWT 567 (1A32F)

DATE 05 SEP 75

(R82103)

MSFC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK

MACH (2) = .900 BETA (2) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .1218 -.2526
360.000 .1913 -.5685

MACH (2) = .900 BETA (3) = 4.000 Q = 7.3630 PTA = 22.008 RL = 6.2700 PSA = 13.033

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6409 .7095 .7762 .8439

PHI	.000	.0211	-.4648	-.2944	-.0585	.1234	.2121	.2923	.2759	-.6775	-.2037	-.0152	-.0756	-.1186	-.1573
18.000	-.0036	-.4746	-.1421	-.0036	-.0036	.1248	.1968	.2258	.1486	-.4572	-.3240	-.1253	-.0264	-.0908	-.1234
36.000	.0015	-.4622	-.0985	.0278	.0278	.1352	.1741	.1189	-.0084	-.3027	-.1554	-.1414	-.0459	-.0418	-.0978
54.000	-.0021	-.4730	-.0553	.0742	.0742	.1590	.1427	-.0247	-.2960	-.2196	-.1070	-.0496	-.0111	-.0221	-.1006
72.000	.0236	-.4644	-.0359	.0996	.0996	.2136	.1777	-.1546	-.7002	-.2480	-.0992	-.0448	-.0121	-.0623	-.1058
90.000	.0254	-.4487	-.0157	.1391	.1391	.3178	.3934	.2707	-.7463	-.1008	-.0950	-.0574	-.0093	-.0440	-.0921
108.000	.0835	-.4162	-.0592	.1031	.1031	.2708	.3173	.1020	-.8510	-.1576	-.0359	-.0025	-.0074	-.0323	-.0535
126.000	.1393	-.3662	-.1736	.0416	.0416	.1841	.1751	-.0047	-.4010	-.0791	-.0454	-.0321	-.0152	-.0169	-.0375
144.000	.1926	-.3262	-.2865	-.0229	-.0229	.0790	.0869	-.0188	-.1997	-.0991	-.0590	-.0332	-.0173	-.0041	-.0275
162.000	.2453	-.2753	-.3541	-.0871	-.0871	.0373	.0376	-.0626	-.1315	-.0955	-.0548	-.0353	-.0183	-.0052	-.0182
180.000	.2956	-.2351	-.3817	-.3211	-.3211	.0428	.0107	-.0464	-.1246	-.0850	-.0445	-.0268	-.0121	-.0015	-.0015
198.000	.3481	-.2082	-.3570	-.0022	-.0022	.0830	.0577	-.0642	-.2642	-.0590	-.0316	-.0100	-.0029	-.0194	-.0552
216.000	.3460	-.1842	-.2715	-.0222	-.0222	.1574	.1452	-.0592	-.4911	-.0551	-.0201	-.0154	-.0157	-.0310	-.0721
234.000	.3455	-.1801	-.1435	.0493	.0493	.2582	.2930	.0686	-.8257	-.1298	-.0359	-.0269	-.0074	-.0323	-.0535
252.000	.3173	-.2212	-.0670	.1182	.1182	.2867	.3574	.2592	-.6832	-.0522	-.0301	-.0146	-.0046	-.0316	-.1222
270.000	.2635	-.2465	-.0353	.1351	.1351	.1423	.1010	-.2305	-.6114	-.1897	-.0855	-.0353	-.0095	-.1115	-.1854
288.000	.2333	-.2855	-.0866	.0596	.0596	.0532	.0347	-.1348	-.1790	-.1037	-.0321	-.0566	-.0046	-.1196	-.1538
306.000	.1617	-.3339	-.1495	-.0310	-.0310	.0522	.0861	.0713	.0695	-.0537	-.1234	-.0512	-.0090	-.1596	-.1896
324.000	.0893	-.3814	-.1801	-.0332	-.0332	.0743	.1551	.2279	.2823	-.0269	-.2021	-.0501	-.0027	-.1437	-.1975
342.000	.0539	-.4321	-.2597	-.0568	-.0568	.1234	.2121	.2923	.2759	9.9950	-.6776	-.2037	-.0152	-.1186	-.1573
360.000	.0211	-.4648	-.2944	-.0585	-.0585	.1234	.2121	.2923	.2759	-.4572					

X/LT .9116 .9836

PHI	.000	.2768	-.7868
18.000	.1519	-.4057	
36.000	.0882	-.1519	
54.000	.0737	-.0765	
72.000	.1188	-.0110	
90.000	.1911	-.0564	
108.000	.1043	.0074	
126.000	.0571	-.0263	
144.000	.0365	-.0527	

TABULATED SOURCE DATA, NSFC THT 567 (1A32F)

EXTERNAL TANK

(R82103)

DATE 05 SEP 75

NSFC 567(1A32F) T9 S3/2 S3/2 03

MACH (3) = 1.050 BETA (1) = -.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .9116 .9836

PHI

.000	.4361	-.5028
18.000	.4314	-.1828
36.000	.3693	.1014
54.000	.3445	.2060
72.000	.3480	.3040
90.000	.3063	.2212
108.000	.2943	.2093
126.000	.2178	.1481
144.000	.1948	.1215
162.000	.1737	.1041
180.000	.1555	.0894
198.000	.1480	.0877
216.000	.1627	.0997
234.000	.1813	.1257
252.000	.2243	.2093
270.000	.2988	.0644
288.000	.2358	.1137
306.000	.2292	.0491
324.000	.2185	-.0497
342.000	.2925	-.3406
360.000	.4361	-.5058

MACH (3) = 1.050 BETA (2) = .000 Q = 8.4300 PTA = 22.007 RL = 5.5700 PSA = 11.008

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6409 .7085 .7752 .8429

PHI

.000	.2105	-.2637	-.2124	-.1135	.0638	.2595	.3662	.3941	-.5685	-.1294	-.1044	.0114	.1536	.2324
18.000	.2021	-.2520	-.2837	-.1044	.1164	.2633	.3424	.2958	-.3183	-.1204	-.0734	-.0791	.1355	.2223
36.000	.2197	-.2380	-.3094	-.1625	.1666	.2792	.2854	.1277	-.0591	-.0420	-.0749	-.0246	.1258	.2151
54.000	.2353	-.2255	-.3735	-.1195	.1949	.2623	.1128	-.2071	-.0705	-.0255	-.0572	-.0183	.1254	.2101
72.000	.2753	-.1974	-.4319	-.0265	.3056	.3005	.0124	-.6422	-.0521	.0042	-.0410	-.0232	.1241	.2111
90.000	.2940	-.1701	-.4519	.0123	.4449	.5200	.4253	-.6238	-.0992	-.0340	-.0281	-.0168	.1224	.1942
108.000	.3517	-.1383	-.4570	-.0219	.3668	.4975	.3242	-.5551	-.0650	-.0159	-.0332	-.0332	.0349	.1558
126.000	.3940	-.0980	-.4306	-.2611	.2827	.3697	.2112	-.1506	-.0237	-.0905	-.0132	-.0226	.0345	.1422
144.000	.4297	-.0691	-.4185	-.3557	.2463	.3036	.1967	.0225	-.1052	-.1085	-.0225	-.0224	.0345	.1393
162.000	.4523	-.0496	-.3984	-.3557	.2090	.1884	.1884	.0814	-.1591	-.1023	.0252	-.0345	.0345	.1233
180.000	.4523	-.0348	-.3866	-.3101	.1517	.2552	.1878	.0944	-.1222	-.0693	.0227	-.0345	.0345	.1157
198.000	.4523	-.0158	-.3964	-.3557	.2390	.2680	.1884	.0844	-.1591	-.1023	.0252	-.0345	.0345	.1249
216.000	.4297	-.0591	-.4185	-.3557	.2390	.3035	.1967	.0225	-.1052	-.1085	-.0225	-.0224	.0345	.1249
234.000	.3940	-.0980	-.4306	-.2611	.2827	.3597	.2112	-.1506	-.0237	-.0905	-.0132	-.0226	.0345	.1249
252.000	.3517	-.1383	-.4570	-.0219	.3668	.4975	.3242	-.5551	-.0650	-.0159	-.0332	-.0332	.0345	.1249
270.000	.2940	-.1701	-.4519	.0123	.4449	.5200	.4253	-.6238	-.0992	-.0340	-.0281	-.0168	.0345	.1249

NSFC 567(1A32F) TS 52.6 53/2 03 EXTERNAL TANK (R82703)

MACH (3) = 1.050 BETA (2) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3489	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.2753	-.1974	-.4318	-.0265	.3056	.3005	.6124	-.6422	-.1859	-.0521	.0042	-.0410	.0083	.1241	.2111
288.000	.2353	-.2259	-.3735	-.1195	.1949	.2623	.1128	-.2071	-.0705	-.0751	-.0255	-.0572	.0189	.1374	.2101
306.000	-.2497	-.2390	-.3094	-.1625	.1666	.2792	.2954	.1377	-.0891	-.1497	-.0420	-.0709	.0216	.1358	.2151
324.000	.2021	-.2520	-.2937	-.1044	.1164	.2833	.3424	.2938	-.1204	-.0434	-.0781	.0101	.1365	.2228	.2828
342.000	.2105	-.2637	-.2124	-.1135	.0836	.2595	.3662	.3941	9.9590	-.5685	-.1294	-.1044	.0114	.1506	.2324
378.000									-.1204						

X/LT .9115 .9832

PHI

.000	.2817	-.4929
18.000	.2498	-.1574
36.000	.2244	.0069
54.000	.2326	.1042
72.000	.2537	.1650
90.000	.2697	.1526
108.000	.2334	.2046
126.000	.1945	.1483
144.000	.1620	.1256
162.000	.1716	.1092
180.000	.1705	.1088
198.000	.1716	.1092
216.000	.1620	.1256
234.000	.1945	.1483
252.000	.2334	.2046
270.000	.2697	.1526
288.000	.2537	.1650
306.000	.2326	.1042
324.000	.2244	.0069
342.000	.2498	-.1574
360.000	.2817	-.4929

MACH (3) = 1.050 BETA (3) = 4.000 0 = 8.4300 PTA = 22.007 RL = 6.5700 PSA = 11.008

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.1918	-.2767	-.3255	-.1948	.1103	.3207	.3990	.3861	-.5746	-.0904	-.0581	.0720	.1931	.2698	.2698
18.000	.1674	-.2646	-.2698	-.0659	.0947	.3009	.3520	.2607	-.2735	-.4917	-.1810	.0136	.1565	.2334	.2334
36.000	.1712	-.2801	-.1926	-.0563	.1021	.3020	.2817	.1532	-.1862	-.2737	-.0956	-.1306	-.0161	.1216	.2112
54.000	.1700	-.2807	-.3019	-.0806	.1584	.2873	.1737	.1251	-.1307	-.1432	-.0695	-.0925	.0137	.1089	.1568
72.000	.1940	-.2711	-.2555	-.0355	.2152	.3431	.0527	-.5555	-.2592	-.0765	-.0389	-.0710	.0129	.1293	.1994
90.000	.2008	-.2530	-.2756	-.0434	.3316	.5533	.4335	-.6101	-.1157	-.0341	-.0627	-.0350	.0902	.1809	.1809

ORIGINAL PAGE IS OF POOR QUALITY

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

(R82T03)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

MACH (3) = 1.050 BETA (3) = 4.000

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP													
X/LT		.0757	.1550	.2203	.2347	.2707	.3139	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
108.000	.2511	-.2233	-.3866	-.0406	.2683	.4867	.3187	-.4982	-.1174	-.0944	-.0327	-.0038	.0113	.1001	.1309
126.000	.3055	-.1797	-.4960	-.2394	.2134	.3939	.2038	-.1278	-.0618	-.1184	-.0018	.0117	.0104	.0921	.1432
144.000	.3521	-.1399	-.4789	-.4170	.1730	.2883	.1886	.0243	-.1284	-.1473	.0044	.0159	.0063	.0739	.1319
162.000	.4017	-.0925	-.4405	-.3888	.1456	.2407	.1495	.0683	-.1847	-.1237	.0040	.0219	.0095	.0589	.1245
180.000	.4474	-.0538	-.3770	-.3189	.1388	.2305	.1588	.0682	-.1482	-.0781	.0018	.0229	.0105	.0740	.1058
198.000	.4789	-.0191	-.3812	-.3384	.2234	.2238	.1713	.0393	-.1661	-.0342	.0238	.0555	.0468	.0581	.1522
216.000	.4962	-.0044	-.3700	-.2912	.2428	.2680	.1471	-.0338	-.0874	-.0086	.0326	.0510	.0546	.1109	.1710
234.000	.4943	-.0026	-.3749	-.2268	.3160	.3358	.1642	-.2135	-.0297	.0124	.0349	.0569	.1206	.1862	.1809
252.000	.4668	-.0398	-.3882	-.0058	.4109	.4686	.2889	-.6082	-.0842	-.0944	-.0327	-.0038	.0113	.1001	.1809
270.000	.4187	-.0577	-.4003	-.0701	.4343	.5003	.4242	-.5387	-.0100	-.0100	.0340	.0225	.0556	.1615	.2427
288.000	.3865	-.1089	-.4454	-.0355	.2848	.2532	-.0338	-.5444	-.1473	-.0054	.0262	.0055	.0702	.1867	.2829
306.000	.3269	-.1512	-.4787	-.1687	.2050	.1972	.0371	-.2746	-.0073	-.0591	-.0081	-.0131	.0702	.2005	.2817
324.000	.2755	-.1963	-.5035	-.2491	.1704	.2385	.2035	.1272	.0726	-.1651	-.0480	-.0076	.0997	.2216	.3179
342.000	.2301	-.2327	-.4825	-.2130	.1558	.2938	.3561	.3332	.1050	-.3936	-.0425	.0092	.1124	.2325	.3170
360.000	.1918	-.2767	-.3255	-.1848	.1103	.3207	.3990	.3861	9.9980	-.5746	-.0904	-.0581	.0720	.1931	.2698
378.000									-.2735						

X/LT .9116 .9836

PHI	
.000	.4113
18.000	-.5471
36.000	.2825
54.000	-.3406
72.000	.2185
90.000	-.0497
108.000	.2092
126.000	.0491
144.000	.2358
162.000	.1137
180.000	.2988
198.000	.0644
216.000	.2304
234.000	.1788
252.000	.1818
270.000	.1257
288.000	.1627
306.000	.0997
324.000	.1480
342.000	.1463
360.000	.0828
378.000	.1737
	.1041
	.1848
	.1215
	.2172
	.1481
	.2304
	.1788
	.3083
	.2212
	.3480
	.3040
	.3445
	.2060
	.3593
	.1014
	.4314
	-.1828
	.4113
	-.5471

(R82T03)

EXTERNAL TANK

MSFC 567(1A32F) TS S3/2 S3/2 03

MACH (4) = 1.250 BETA (1) = -4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .8836

PHI
342.000 .3214 -.2631
360.000 .4787 -.2715

MACH (4) = 1.250 BETA (2) = .000 Q = 9.2843 PTA = 3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1520 .2203 .2947 .2707 .3139 .3489 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.2929	-.1373	-.3502	-.3032	-.0833	.0933	.2588	.4555	-.3880	-.0047	.0227	-.0064	.0551	.1919
18.000	.2861	-.1268	-.3795	-.3375	-.0616	.1108	.2533	.3568	.0401	-.3874	.0455	-.0297	-.0147	.0468	.1844
36.000	.3015	-.1152	-.3658	-.3288	-.1929	.1631	.2604	.2786	.0102	-.3649	.0489	.0160	-.0276	.0269	.1774
54.000	.3225	-.0994	-.3590	-.3462	-.1584	.1380	.1713	.0600	.0193	-.2822	.0372	.0185	-.0313	.0239	.1628
72.000	.3593	-.0745	-.3472	-.3306	-.1114	.2172	.0642	-.4670	-.1781	-.1190	-.0064	.0194	-.0263	.0173	.1476
90.000	.3774	-.0479	-.3262	-.3140	.1194	.5192	.5558	-.5066	-.1086	-.0238	.0135	-.0134	-.0202	.0148	.0505
108.000	.4372	-.0118	-.3038	-.2878	.0052	.4858	.4675	-.3639	-.0920	-.0716	-.0359	.0014	-.0205	.0148	.0264
126.000	.4809	.0243	-.2789	-.2623	-.2093	.2132	.2898	.0177	-.0321	-.0803	-.0479	.0064	-.0230	.0110	.0197
144.000	.5193	.0542	-.2578	-.2407	-.1943	.1261	.1963	.1415	-.0617	-.0712	-.0691	-.0101	.0152	.0110	.0149
162.000	.5415	.0713	-.2425	-.2300	-.1622	-.1161	.1894	.2127	.0276	-.0708	-.0824	-.0280	.0173	.0135	.0148
180.000	.5533	.0805	-.2346	-.2176	-.1718	-.1215	.1878	.2456	.0690	-.0820	-.0853	-.0280	.0173	.0135	.0148
198.000	.5415	.0713	-.2425	-.2300	-.1622	-.1161	.1894	.2127	.0276	-.0708	-.0824	-.0280	.0173	.0135	.0148
216.000	.5193	.0542	-.2578	-.2407	-.1943	.1261	.1963	.1415	-.0617	-.0712	-.0691	-.0101	.0152	.0110	.0197
234.000	.4809	.0243	-.2789	-.2623	-.2093	.2133	.2898	.0177	-.0321	-.0803	-.0479	.0064	-.0230	.0110	.0264
252.000	.4372	-.0118	-.3038	-.2878	-.1943	.5192	.4658	-.3639	-.0920	-.0716	-.0359	.0014	-.0205	.0148	.0505
270.000	.3774	-.0479	-.3262	-.3140	.1194	.2172	.0642	-.4670	-.1086	-.0239	.0135	-.0134	-.0202	.0173	.1476
288.000	.3593	-.0745	-.3472	-.3306	-.1114	.2172	.0642	-.4670	-.1086	-.0239	.0135	-.0134	-.0202	.0173	.1476
306.000	.3225	-.0994	-.3590	-.3462	-.1584	.1380	.1713	.0600	.0193	-.2822	.0372	.0185	-.0313	.0239	.1628
324.000	.3015	-.1152	-.3658	-.3288	-.1929	.1631	.2604	.2786	.0102	-.3649	.0489	.0160	-.0276	.0239	.1774
342.000	.2861	-.1268	-.3795	-.3375	-.0616	.1108	.2533	.3568	.0401	-.3874	.0455	.0297	-.0147	.0468	.1844
360.000	.2929	-.1373	-.3502	-.3032	-.0833	.0933	.2588	.4555	-.3880	-.0047	.0227	-.0064	.0551	.1919	
378.000	.9116	.8836													

X/LT .9116 .8836

PHI
.000
18.000 .3183 -.3901
36.000 .2705 -.1756
54.000 .2414 .0476
72.000 .2331 .1815
90.000 .2302 .2425
108.000 .2164 .1399
126.000 .1342 .1425
144.000 .0896 .1183
162.000 .0659 .1012

(R02T03)

MSFC 967(1A3EF) TO S3/2 S3/2 03 EXTERNAL TANK

MACH (4) = 1.250 BETA (2) = .000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.9116	.9838
PHI		
162.000	.0535	.0059
180.000	.0518	.0783
198.000	.0535	.0659
216.000	.0659	.1012
234.000	.0896	.1183
252.000	.1342	.1425
270.000	.2164	.1399
288.000	.2392	.2425
306.030	.2331	.1815
324.000	.2414	.0476
342.000	.2706	-.1756
360.000	.3183	-.3901

MACH (4) = 1.250 BETA (3) = 4.000 Q = 9.2843 PTA = 22.007 RL = 6.6667 PSA = 8.5180

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3818	.4378	.5055	.5732	.6409	.7085	.7762	.8439
PHI															
.000	.2886	-.1356	-.3441	-.5130	-.2207	.1253	.3401	.5152	-.4801	-.0651	.0528	-.0184	.0282	.2218	
18.000	.2674	-.1452	-.3779	-.3591	-.0197	.1259	.2370	.3733	-.0493	-.4596	-.1466	-.0043	.0651	.0048	.1842
36.000	.2701	-.1468	-.3760	-.3581	.0231	.1416	.2676	.3189	-.0498	-.3881	-.0292	-.0037	-.0869	-.0117	.1485
54.000	.2648	-.1469	-.3830	-.3847	-.0264	.1698	.2214	.0206	.0060	-.3147	-.0184	-.0013	-.0668	.0124	.1495
72.000	.2659	-.1440	-.3892	-.3671	.0311	.3167	.1199	-.4672	-.1102	-.1269	-.0384	-.0055	-.0547	.0098	.1503
90.000	.2915	-.1301	-.3768	-.3631	.0969	.5665	.5728	-.4910	-.0809	-.0577	-.0001	-.0402	.0019	.1221	
108.000	.3407	-.1023	-.3506	-.3356	.0415	.4446	.4634	-.3435	-.0118	-.0606	-.0747	.0165	-.0230	.0015	.0590
126.030	.3929	-.0631	-.3273	-.3097	-.2104	.1805	.2255	.0937	.0485	-.1019	-.0593	.0078	-.0171	-.0142	.0245
144.000	.4411	-.0201	-.3105	-.2883	-.2407	.1294	.2017	.1503	-.0543	-.1541	-.0902	-.0168	-.0043	-.0185	.0131
162.000	.4888	.0257	-.2835	-.2677	-.2060	.1335	.1319	.2200	.0186	-.1068	-.0593	-.0497	.0094	-.0209	.0023
180.000	.5352	.0653	-.2538	-.2451	-.1829	.1395	.2005	.2289	.0428	-.0890	-.0523	-.0493	.0131	-.0030	-.0225
216.000	.5749	.0968	-.2263	-.2138	-.1693	.1696	.1788	.0622	-.1272	-.0239	-.0223	-.0023	.0059	.0009	.0322
234.000	.5691	.0926	-.2334	-.2201	-.1243	.2892	.2663	-.0677	-.1056	-.0248	-.0098	.0014	.0105	.0018	.0489
252.000	.5439	.0685	-.2456	-.2365	.1585	.5081	.4269	-.3936	-.1194	-.0606	-.0747	.0165	-.0230	.0015	.0590
270.000	.4969	.0368	-.2700	-.2625	.2666	.5411	.5603	-.4786	-.0740	-.0806	-.0933	.0251	.0172	.0151	.1443
288.000	.4684	-.0010	-.3007	-.3071	.0849	.2322	.0060	-.4902	-.2013	-.0532	-.0368	.0314	.0218	.0135	.1940
306.000	.4102	-.0369	-.3286	-.3240	-.1048	.0818	.0585	-.1906	.0247	-.1665	.0614	.0264	.0260	.0097	.1944
324.000	.3642	-.0702	-.3510	-.3415	-.2648	.1117	.2201	.2421	.1797	-.3260	.0169	.0431	.0406	.0106	.2507
342.000	.3203	-.1023	-.3672	-.3505	-.2810	.1687	.2862	.3836	.2449	-.3868	-.0869	.0734	.0397	-.0056	.2635
360.000	.2696	-.1356	-.3441	-.5130	-.2207	.1253	.3401	.5152	9.9990	-.4801	-.0651	.0528	-.0184	.0282	.2218
378.000									-.0493						

NSFC 587(1A32F) TO 53/2 53/2 04 EXTERNAL TANK (R62T03)

MACH (5) = 1.488 BETA (1) = -4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3138	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8438
PHI	3390	-0434	-2588	-1653	-1148	3068	1951	-3257	-1169	-1014	-1107	0362	0182	-0048	1198
288.000	3072	-0548	-2552	-2527	-1723	1860	2211	0546	0950	-2772	-0498	0526	0162	-0159	1186
308.000	3032	-0543	-2568	-2450	-1625	1546	2558	2979	0487	-3059	-0343	0485	0085	-0322	1338
324.000	3017	-0519	-2578	-2316	-1067	1163	1914	3050	0836	-3137	-0643	0611	0149	-0315	0759
342.000	3198	-0588	-2308	-3720	-1651	0875	2034	4810	8.8990	-4578	-1814	1152	0654	0056	0065
360.000															
378.000															

X/LT .9116 .5838

PHI

.000	.5085	-1808
18.000	5148	0172
36.000	4328	3217
54.000	4136	4388
72.000	3976	5294
90.000	2531	1457
108.000	1470	1535
126.000	0891	1034
144.000	0506	0829
162.000	0171	0656
180.000	-0049	0591
198.000	0121	0774
216.000	0354	0974
234.000	0682	1071
252.000	1470	1535
270.000	2300	1188
288.000	2513	2595
306.000	2474	1914
324.000	2617	0742
342.000	3383	-1795
360.000	5085	-1808

MACH (5) = 1.482 BETA (2) = .000 0 = 8.4730 PTA = 22.010 AL = 6.5300 PSA = 8.3457

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3138	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8438
PHI	3381	-0315	-2532	-2218	-1880	1183	2429	4246	1825	-3741	-0388	1122	0897	0513	1191
18.000	3352	-0326	-2503	-2205	-1887	1159	2490	3613	1432	-2740	-1222	0652	0521	0301	0799
36.000	3311	-0294	-2455	-2189	-1789	0983	2462	3148	0465	-2317	-1726	0620	0539	0191	0957
54.000	3652	-0236	-2387	-2297	-1758	1302	1873	0269	0465	-2317	-1726	0620	0539	0191	0957
72.000	4710	-0102	-2332	-2287	-1311	2911	1318	-3435	-1830	-0943	-0734	0313	0440	0144	0979
90.000	4197	0138	-2181	-2075	-1250	6035	7032	-3590	-0658	-0315	-0268	0123	0268	0123	0513

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE: 05 SEP 75

(R62103)

EXTERNAL TANK

MSFC 567(1A32F) TO 63/2 63/2 03

MACH (5) = 1.480 BETA (E) = .000

SECTION (I) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0767	.1850	.2203	.2347	.2707	.3139	.3499	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4705	.0473	-.2049	-.1851	-.1481	.4309	.5648	-.2008	-.1208	-.0575	.0019	-.0160	.0060	.0068	.0334
106.000	.5186	.0804	-.1956	-.1804	-.1382	.2156	.2874	.1462	-.0665	-.0350	.0003	-.0240	-.0110	.0056	.0134
126.000	.5595	.1077	-.1620	-.1539	-.1290	.3305	.1909	.1228	.0350	.0016	-.0180	-.0200	-.0241	-.0049	.0113
144.000	.5951	.1269	-.1446	-.1364	-.1131	.0719	.1195	.1776	.1228	.0003	-.0347	-.0192	-.0151	-.0123	.0142
162.000	.5979	.1305	-.1400	-.1307	-.1045	-.0952	-.0339	.2448	.1685	.0072	-.0335	-.0200	-.0053	-.0217	-.0041
180.000	.5851	.1269	-.1446	-.1364	-.1131	.0719	.1195	.1776	.1228	.0003	-.0347	-.0192	-.0151	-.0123	.0142
198.000	.5695	.1077	-.1620	-.1539	-.1290	.3305	.1909	.1228	.0350	.0016	-.0180	-.0200	-.0241	-.0049	.0113
216.000	.5186	.0804	-.1956	-.1804	-.1382	.2156	.2874	.1462	-.0665	-.0350	.0003	-.0240	-.0110	.0056	.0134
234.000	.4705	.0473	-.2049	-.1851	-.1481	.4309	.5648	-.2008	-.1208	-.0575	.0019	-.0160	.0060	.0068	.0334
252.000	.4157	.0138	-.2332	-.2267	-.1311	.6035	.7032	-.3586	-.0958	-.0315	-.0094	-.0094	.0268	.0125	.0513
270.000	.3652	-.0238	-.2387	-.2297	-.1758	.1302	.1673	-.0269	.0465	.2317	-.1725	.0620	.0539	.0191	.0957
306.000	.3511	-.0294	-.2455	-.2189	-.1789	.0983	.2462	.3148	.1432	.2740	-.1222	.0552	.0521	.0301	.0799
324.000	.3352	-.0326	-.2503	-.2205	-.1887	.1159	.2490	.3613	.1825	.3741	-.0388	.1122	.0897	.0513	.1191
342.000	.3381	-.0315	-.2532	-.2218	-.1960	.1183	.2429	.4246	9.9990	-.2369	-.0208	.1375	.0933	.0553	.1293
360.000									.1825						
378.000															

X/LT	.9116	.9636
PHI	.4436	-.1901
18.000	.3903	-.0856
36.000	.3281	.0863
54.000	.2681	.2428
72.000	.2748	.3056
90.000	.2219	.1199
108.000	.1432	.1379
126.000	.0917	.1068
144.000	.0640	.1036
162.000	.0370	.0918
180.000	.0146	.0738
198.000	.0370	.0840
216.000	.0640	.1036
234.000	.0917	.1068
252.000	.1432	.1379
270.000	.2219	.1199
288.000	.2748	.3056
306.000	.2681	.2428
324.000	.3281	.0863
342.000	.3903	-.0856
360.000	.4436	-.1901

TABLATED SOURCE DATA, MSFC TMT 507 (11A32F)

(1682703)

DATE 05 SEP 78

MSFC 507(11A32F) TO 53/2 53/2 03 EXTERNAL TANK

MACH (5) = 1.480 BETA (3) = 4.000 Q = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 6.3457

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5025	.5732	.6408	.7065	.7742	.8439
PHI															
.000	.3186	-.0470	-.1885	-.2107	-.1250	.0649	.1829	.3528	.0836	-.3275	-.0433	.0843	.0447	.0000	.0047
18.000	.3017	-.0519	-.2578	-.2316	-.1067	.1163	.1814	.3050	.0936	-.3137	-.0543	.0611	.0149	-.0315	.0759
36.000	.3032	-.0943	-.2568	-.2450	-.1625	.1546	.2558	.2979	.0497	-.3099	-.0343	.0485	.0095	-.0322	.1338
54.000	.3072	-.0548	-.2552	-.2527	-.1723	.1680	.2211	.0546	.0990	-.2772	-.0498	.0526	.0162	-.0159	.1196
72.000	.3340	-.0434	-.2566	-.2509	-.1149	.3086	.1951	-.3587	-.1169	-.1014	-.1107	.0362	.0182	-.0049	.1189
90.000	.3428	-.0171	-.2539	-.2408	-.1074	.6056	.7175	-.3564	-.0674	-.0674	-.0770	.0002	.0088	-.0001	.0796
108.000	.3879	.0093	-.2426	-.2418	-.1544	.3687	.5794	-.1912	-.0768	-.0454	-.0127	-.0249	.0057	.0015	.0419
126.000	.4371	.0374	-.2253	-.2237	-.1743	.1603	.1975	.1775	-.0265	-.0600	-.0253	.0514	.0200	.0019	.0186
144.000	.4847	.0660	-.1977	-.1965	-.1609	.0676	.1906	.1244	.0432	-.0323	-.0531	-.0576	.0339	-.0033	.0293
162.000	.5326	.0987	-.1702	-.1640	-.1404	-.0955	.1518	.2016	.1371	-.0273	-.0478	.0560	.0466	-.0184	.0303
180.000	.5762	.1326	-.1465	-.1404	-.1142	-.0669	-.0432	.1852	.1599	-.0077	-.0376	-.0384	.0343	-.0314	.0253
198.000	.6003	.1445	-.1324	-.1279	-.0862	-.0511	.0669	.1253	.0775	.0150	-.0089	-.0122	.0020	.0020	.0224
216.000	.6145	.1612	-.1295	-.1168	-.0776	.1281	.2290	.1379	.0588	.0077	.0433	-.0089	.0195	.0154	.0235
234.000	.6027	.1605	-.1338	-.1175	-.0832	.2601	.3871	.0906	-.1053	-.0195	.0515	-.0043	.0019	.0021	.0237
252.000	.5624	.1396	-.1374	-.1251	-.0758	.5452	.5558	-.2161	-.1537	-.0454	-.0127	-.0249	.0057	.0015	.0419
270.000	.5111	.1111	-.1572	-.1372	.1385	.6247	.7195	-.3641	-.0653	-.0653	-.0044	.0220	.0146	.0195	.0457
288.000	.4835	.0784	-.1645	-.2509	-.0342	.3042	.1380	.4054	-.1780	-.0759	-.0081	.0544	.0462	.0442	.0474
306.000	.4241	.0413	-.2103	-.2083	-.1650	.1054	.0703	-.1650	.1034	-.1878	-.0938	.0330	.0453	.0461	.0563
324.000	.3910	.0085	-.2297	-.2268	-.1880	.0354	.1580	.2917	.2189	-.1990	-.1755	.1115	.0841	.0465	.0674
342.000	.3438	-.0232	-.2482	-.2449	-.1870	.0073	.2662	.4332	.3409	-.3184	-.3283	.0526	.0895	.0268	.0637
350.000	.3180	-.0470	-.1985	-.2107	-.1250	.0048	.1829	.3528	9.9990	-.3275	-.0433	.0843	.0447	.0000	.0047
378.000	.9116	.9036						.0836							

SECTION (2) EXTERNAL TANK

X/LT	.9116	.9036
PHI		
.000	.4616	-.1888
18.000	.4383	-.1795
36.000	.2617	.0742
54.000	.2474	.1214
72.000	.2513	.2595
90.000	.2300	.1498
108.000	.0692	.1305
126.000	.0692	.1071
144.000	.0394	.0974
162.000	.0121	.0774
180.000	.0138	.0469
198.000	.0171	.0656
216.000	.0506	.0829
234.000	.0891	.1034
252.000	.1305	.1329
270.000	.2531	.1457
288.000	.3976	.5294
306.000	.4136	.4389
324.000	.4528	.3217

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DATE 05 SEP 75 TABULATED SOURCE DATA, NSFC TMT 567 (11A32F)

NSFC 567(11A32F) T9 S3/2 S3/2 03 EXTERNAL TANK (R82T031)

MACH (5) = 1.460 BETA (3) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.5836
PHI		
3+E.000	.5148	.0172
360.000	.4816	-.1899
MACH (6) = 1.960	BETA (1) = -4.000	Q = 10.259
PTA = 28.006	RL = 7.0800	PISA = 3.8317

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
18.000	.3577	.0251	-.1052	-.1713	-.0984	-.0277	.1245	.2367	.3752	-.1955	-.0560	-.0634	-.0366	-.0481	.0854
36.000	.3819	.0515	-.1245	-.1290	-.1029	-.0500	.1222	.2764	.3537	-.0735	-.1570	-.0521	-.0353	-.0519	.1338
54.000	.4802	.1131	-.0919	-.0991	-.0836	-.0368	.1456	.1206	.3637	-.0322	-.1299	-.0284	.0345	-.0836	.0795
72.000	.5271	.1429	-.0752	-.0763	-.0646	.1904	.3414	-.0099	-.0167	-.0643	-.0306	.0262	.0262	.0524	.0673
90.000	.5533	.1811	-.0477	-.0496	-.0439	.4116	1.0176	-.0859	-.1461	-.0908	.0654	.0432	.0339	.0308	.0338
108.000	.5258	.2030	-.0273	-.0281	-.0235	.2219	.7310	.0115	-.0840	-.0832	.0443	.0558	.0489	.0357	.0357
126.000	.6196	.2127	-.0284	-.0201	-.0035	.0406	.2595	.2935	.0051	-.0318	.0157	.0631	.0555	.0285	.0285
144.000	.6280	.2197	-.0200	-.0246	.0013	.0047	.2061	.1420	.0719	.0251	.0123	.0395	.0500	.0244	.0274
162.000	.6126	.2175	-.0174	-.0257	-.0205	-.0123	-.0008	.1492	.0519	.0749	.0266	.0225	.0293	.0217	.0188
180.000	.5847	.1986	-.0381	-.0408	-.0276	-.0148	-.0136	.0235	.1740	.0794	.0406	.0081	.0010	.0036	-.0034
198.000	.5483	.1569	-.0499	-.0544	-.0431	-.0238	.0126	.1066	.1485	.0993	.0255	-.0164	-.0149	-.0073	-.0047
216.000	.5164	.1394	-.0740	-.0725	-.0638	-.0419	.1228	.1376	.0640	.0028	-.0123	.0289	.0149	-.0172	-.0052
234.000	.4674	.0949	-.0899	-.0886	-.0839	-.0039	.1376	.1681	.0176	.0451	-.0059	-.0046	.0003	-.0122	-.0052
252.000	.4266	.0644	-.1089	-.1157	-.0900	.3962	.9857	-.0855	-.0428	-.0932	.0443	.0559	.0465	.0357	.0357
270.000	.3917	.0380	-.1262	-.1225	-.0900	.1186	.3638	-.1555	.1110	-.0910	.0179	.0158	.0265	-.0255	.0556
288.000	.3736	.0247	-.1351	-.0763	-.0970	.1186	.3638	-.1555	.1110	-.0910	.0179	.0158	.0265	-.0255	.0556
306.000	.3496	.0145	-.1454	-.1371	-.1023	.0096	.1058	.0824	.1289	-.1106	-.0691	.0129	.0389	.0171	.0290
324.000	.3413	.0055	-.1403	-.1376	-.0987	.0187	.1388	.2461	.2046	-.1176	-.0994	-.0417	-.0470	.0479	.0570
342.000	.3385	.0055	-.1287	-.1209	-.0981	.0440	.1085	.1911	.2111	-.1019	-.0076	-.0921	-.0727	.0789	.0552
360.000	.3577	.0251	-.1052	-.1713	-.0984	.0277	.1245	.2367	.3752	-.1955	-.0560	-.0634	-.0366	-.0481	.0854
378.000															
X/LT	.9116	.5836													

PHI		
.000	.3821	-.1539
18.000	.2928	.1140
36.000	.1439	.3015
54.000	.1137	.3518
72.000	.1520	.3715
90.000	.1814	.1385
108.000	.1081	.1669
126.000	.0439	.1276
144.000	.0240	.0911

(R82T03)

EXTERNAL TANK

MSFC 567(1A32F) T9 S3/2 S3/2 03

MACH (6) = 1.960 BETA (2) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI	.000	.3942	-.1600
18.000	.3077	-.0677	
36.000	.2506	.1311	
54.000	.2025	.2510	
72.000	.2042	.3055	
90.000	.2079	.1522	
108.000	.1811	.1966	
126.000	.0334	.1421	
144.000	.0161	.0902	
162.000	.0131	.0345	
180.000	.0142	.0195	
198.000	.0131	.0345	
216.000	.0161	.0902	
234.000	.0334	.1421	
252.000	.1011	.1966	
270.000	.2079	.1522	
288.000	.2042	.3055	
306.000	.2025	.2510	
324.000	.2506	.1311	
342.000	.3077	-.0677	
360.000	.3942	-.1600	

MACH (6) = 1.960 BETA (3) = 4.000 Q = 10.259 PTA = 28.006 RL = 7.080C PSA = 3.8317

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.3514	.0232	-.0972	-.1062	-.0930	.0342	.1052	.2000	-.1213	.0265	-.0673	-.0773	.0860	.1113
18.000	.3385	.0066	-.1267	-.1208	-.0981	.0440	.1085	.1911	.2111	-.1018	-.0076	-.0961	-.0721	.0789	.0562
36.000	.3413	.0055	-.1403	-.1376	-.0967	.0187	.1388	.2461	.2046	-.1176	-.0984	-.0417	-.0470	.0478	.0570
54.000	.2126	.0145	-.1454	-.1371	-.1023	.0096	.1058	.0824	.1289	-.1106	-.0591	.0129	-.0289	.0171	.0590
72.000	.3736	.0247	-.1351	-.1209	-.0970	.1186	.3638	.1555	-.1110	-.0910	-.0179	.0169	.0139	.0263	.0366
90.000	.3917	.0380	-.1282	-.1225	-.0900	.3962	.9657	-.0955	-.0566	.0096	.0096	.0096	.0096	.0096	.0096
108.000	.4266	.0644	-.1089	-.1157	-.0936	.0625	.7321	.0213	-.0428	-.0775	.0353	.0440	.0240	.0152	.0162
126.000	.4574	.0949	-.0699	-.0968	-.0839	-.0039	.1376	.1691	.0640	.0328	-.0123	.0289	.0145	.0172	.0132
144.000	.5164	.1394	-.0740	-.0725	-.0638	-.0419	.1228	.1394	.0176	.0451	-.0059	.0046	.0009	.0122	.0112
162.000	.5463	.1568	-.0495	-.0544	-.0431	-.0238	.1065	.1065	.1485	.0993	.0255	.0046	-.0149	.0172	.0112
180.000	.5803	.1838	-.0235	-.0307	-.0265	.0032	.0130	.0209	.1502	.0776	.0310	.0115	-.0009	.0115	.0112
198.000	.6128	.2175	-.0174	-.0257	-.0205	.0123	-.0008	.1492	.0519	.0749	.0256	.0225	.0223	.0211	.0138
216.000	.6280	.2197	-.0200	-.0246	.0013	.0047	.2051	.1420	.0719	.0351	.0122	.0355	.0111	.0344	.0138
234.000	.6196	.2127	-.0264	-.0101	-.0035	.0406	.2595	.2595	.0051	-.0318	.0157	.0653	.0111	.0334	.0138
252.000	.5958	.2030	-.0273	-.0281	-.0235	.2819	.7310	.0115	-.0942	-.0775	.0352	.0440	.0111	.0334	.0138
270.000	.5533	.1811	-.0477	-.0496	-.0439	.4116	1.0176	-.0659	-.0432	-.0339	.0354	.0440	.0111	.0334	.0138

TABULATED SOURCE DATA, MSFC INT 267 (1A32F)

(R82T03)

DATE 05 SEP 75

MSFC 567(1A32F) TO 93/2 53/2 03 EXTERNAL TANK

MACH (8) = 1.80 BETA (3) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2803	.2347	.2707	.3138	.3498	.3816	.4378	.5055	.5732	.6408	.7085	.7752	.8439
PHI	.5271	.1429	-.0752	-.1208	-.0248	.1804	.3414	-.1743	-.1481	-.1243	.0483	.0406	.0378	.0382	.0674
268.000	.4302	.1131	-.0818	-.0981	-.0838	.0388	.1458	-.0098	-.0167	-.0943	-.0328	.0262	.0282	.0524	.0673
308.000	.4335	.0774	-.1088	-.1137	-.0871	-.0514	.0888	.1209	.3537	-.0322	-.1259	-.0284	.0345	.0836	.0795
324.000	.3819	.0595	-.1243	-.1280	-.1028	-.0500	.1222	.2784	.3782	-.0735	-.1570	-.0521	.0353	.0599	.1039
342.000	.3814	.0232	-.0972	-.1062	-.0930	.0342	.1032	.2000	0.9990	-.1213	.0288	-.0673	-.0773	.0860	.1213
378.000									.2111						

X/LT .9118 .9226

PHI

.000	.3823	-.1589
18.000	.2929	-.1419
36.000	.2478	.0307
54.000	.2223	.1912
72.000	.2112	.2559
90.000	.2172	.1307
108.000	.0952	.1670
126.000	.0188	.1105
144.000	-.0081	.0813
162.000	.0025	.0039
180.000	.0100	.0058
198.000	.0157	.0387
216.000	.0240	.0911
234.000	.0439	.1278
252.000	.0982	.1670
270.000	.1814	.1385
288.000	.1920	.3715
306.000	.1137	.3818
324.000	.1439	.3015
342.000	.2928	.1140
360.000	.3523	-.1569

MACH (7) = 2.980 BETA (1) = -4.000 0 = 5.1887 27A = .14 27B = 4.1200 PSA = .82967

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4379	.5055	.5732	.6408	.7085	.7752	.8439
PHI	.3129	.0563	-.0063	.0048	.0115	.0284	.0354	.0447	.1498	.0378	-.0315	.0026	-.0144	-.0330	-.278
18.000	.3404	.0658	-.0266	-.0203	.0735	.0136	.0408	.0565	.1498	.0378	-.0315	.0263	-.0137	.0283	.0465
35.000	.3872	.0959	-.0269	-.0261	-.0112	.0073	.0432	.0854	.2079	.0277	-.0405	-.0498	-.0098	.0449	.0124
54.000	.4249	.1149	-.0201	-.0220	-.0085	.0141	.0832	.0000	.0000	-.0	-.0337	.0233	.0250	.0150	.0120
72.000	.4869	.1417	-.0096	-.0122	-.0096	.0410	.2767	.0354	-.0767	-.0	-.0465	.0247	.0247	.0247	.0131
90.000	.5149	.1685	.0026	-.0017	.0019	.3292	.7557	.1633		-.0	-.0439	.0011	.0220	.0187	.0127

TABLULATED SOURCE DATA, MSFC TNT 567 (1A32F)

MSFC 567(1A32F) TO 93/2 93/2 03 EXTERNAL TANK (R62103)

DATE 03 SEP 75

MACH (7) = 2.990 BETA (1) = -4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
108.000	.5607	.1945	.0135	.0097	.0086	.0843	.1321	.1698	-.0002	-.0543	-.0360	-.0056	.0187	.0209	.0131
126.000	.5734	.2047	.0209	.0164	.0142	.0354	.1263	.0906	.0936	-.0099	-.0304	-.0189	.0101	.0194	.0086
144.000	.6038	.2095	.0250	.0190	.0157	.0347	.1067	.1063	.0048	.0422	.0053	-.0092	.0034	.0123	.0038
162.000	.5790	.1964	.0196	.0138	.0112	.0264	.0369	.0321	.0485	.0168	.0369	.0153	-.0032	.0011	.0019
180.000	.5477	.1764	.0086	.0034	.0011	.0011	.0563	.0004	.0459	.0566	.0362	.0082	-.0062	-.0021	.0073
198.000	.5067	.1499	-.0088	-.0107	-.0122	.0041	.1003	.0202	.0448	.0501	.0392	.0082	-.0017	-.0144	.0026
216.000	.4672	.1212	-.0237	-.0246	-.0226	.0034	.0362	.0504	-.0006	.0146	.0237	-.0004	-.0041	-.0067	.0019
234.000	.3911	.0942	-.0372	-.0335	-.0160	.0485	.0485	.0036	.0389	.0080	-.0107	-.0032	.0090	-.0021	-.0021
252.000	.3598	.0712	-.0413	-.0226	-.0123	.0205	.1883	.1488	.0131	-.0543	-.0360	-.0066	.0187	.0209	.0131
270.000	.3162	.0518	-.0312	-.0148	-.0122	.0832	.5387	.1048	-.0112	-.0718	.0119	-.0134	.0070	.0022	-.0004
288.000	.3024	.0392	-.0248	-.0122	-.0107	.0584	.1711	.0112	-.0565	-.0580	-.0133	-.0301	.0056	-.0022	-.0036
306.000	.2682	.0351	-.0241	-.0133	-.0043	.0217	.0289	.0187	.0608	.0105	-.0699	-.0238	-.0104	-.0156	-.0055
324.000	.2667	.0362	-.0219	-.0107	-.0029	.0213	.0336	.0481	.1160	.0019	-.0278	-.0424	-.0372	-.0465	-.0107
342.000	.2690	.0407	-.0174	-.0066	.0097	.0317	.0332	.0336	.1771	-.0271	.0126	.0019	-.0304	-.0599	-.0026
360.000	.3129	.0563	-.0063	.0048	.0115	.0264	.0354	.0447	9.9950	-.0186	-.0275	.0026	-.0144	-.0330	-.0278
378.000								.1498							

X/LT .9116 .9836

PHI	.0909	-.0908
18.000	.7671	.1163
36.000	.0548	.1510
54.000	.0235	.1028
72.000	.0460	.0449
90.000	.0604	.0504
108.000	.0269	.0522
126.000	.0272	.0533
144.000	.0183	.0239
162.000	.0101	.0079
180.000	.0004	.0000
198.000	-.0062	-.0055
216.000	-.0019	.0006
234.000	.0038	.0228
252.000	.0269	.0522
270.000	.0152	.0559
288.000	.0157	.0530
306.000	.0266	.0566
324.000	.0617	.0025
342.000	.0772	-.0480
360.000	.0909	-.0908

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MACH (7) = 2.950 BETA (2) = .000 0 = 5.1887 PTA = 30.014 RL = 4.1200 PSA = .82967
MSFC 567(1A32F) T9 53/2 53/2 03 EXTERNAL TANK (R82T03)

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT	PHI	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
.000	.000	.3035	.0484	-.0097	-.0063	.0010	.0167	.0252	.0476	.1967	-.0063	.0420	.0327	-.0119	-.0458	-.0342
18.000	.2983	.0435	-.0220	-.0175	-.0101	-.0088	.0230	.0230	.0338	.1967	-.0313	.0250	.0193	-.0201	-.0454	-.0114
36.000	.3188	.0500	-.0267	-.0189	-.0137	-.0049	.0209	.0209	.0444	.1946	-.0295	-.0590	-.0299	-.0280	-.0149	-.0101
54.000	.3351	.0614	-.0350	-.0197	-.0142	-.0007	.0163	.0163	.0018	.0077	-.0261	-.0718	-.0260	-.0290	-.0097	-.0062
72.000	.3713	.0774	-.0391	-.0250	-.0142	-.0127	.2584	.2584	.0159	-.0771	-.0801	-.0514	-.0145	.0189	.0222	-.0007
90.000	.4033	.0986	-.0394	-.0380	-.0134	.1984	.6581	.6581	.1515	-.0864	-.0864	-.0394	-.0111	.0026	.0258	-.0057
108.000	.4469	.1228	-.0246	-.0309	-.0153	.0237	.3243	.3243	.1962	.0055	-.0611	-.0373	-.0045	.0091	.0234	.0200
126.000	.4795	.1443	-.0133	-.0211	-.0174	.0123	.0724	.0724	.0369	.1048	-.0006	-.0261	-.0123	.0051	.0111	.0129
144.000	.5337	.1634	-.0011	-.0112	-.0108	-.0056	.0424	.0424	.0710	.0245	.0195	.0312	.0163	.0300	.0010	-.0007
162.000	.5492	.1786	.0056	-.0040	-.0040	-.0036	.0030	.0030	.0209	.0578	.0533	.0424	.0256	.0100	-.0041	-.0078
180.000	.5568	.1809	.0092	.0000	-.0007	-.0011	.0000	.0000	.0000	.0513	.0826	.0606	.0357	.0103	-.0019	-.0093
198.000	.5492	.1786	.0056	-.0040	-.0040	-.0036	.0030	.0030	.0209	.0578	.0533	.0424	.0256	.0100	-.0041	-.0078
216.000	.5337	.1634	-.0011	-.0112	-.0108	-.0056	.0424	.0424	.0710	.0245	.0195	.0312	.0163	.0300	.0010	-.0007
234.000	.4795	.1443	-.0133	-.0211	-.0174	.0123	.0724	.0724	.0369	.1048	-.0006	-.0261	-.0123	.0051	.0111	.0129
252.000	.4469	.1228	-.0246	-.0309	-.0153	.0237	.3243	.3243	.1962	.0055	-.0611	-.0373	-.0045	.0091	.0234	.0200
270.000	.4033	.0986	-.0394	-.0380	-.0134	.1984	.6581	.6581	.1515	-.0864	-.0864	-.0394	-.0111	.0026	.0258	-.0057
288.000	.3713	.0774	-.0391	-.0250	-.0142	-.0127	.2584	.2584	.0159	-.0771	-.0801	-.0514	-.0145	.0189	.0222	-.0007
306.000	.3351	.0614	-.0350	-.0197	-.0142	-.0007	.0163	.0163	.0018	.0077	-.0261	-.0718	-.0260	.0090	.0097	-.0062
324.000	.3188	.0500	-.0267	-.0189	-.0137	-.0049	.0209	.0209	.0444	.1946	-.0295	-.0590	-.0299	-.0280	-.0149	-.0101
342.000	.2983	.0435	-.0220	-.0175	-.0101	-.0088	.0230	.0230	.0338	.1967	-.0313	.0250	.0193	-.0201	-.0454	-.0114
360.000	.3035	.0484	-.0097	-.0063	.0010	.0167	.0252	.0252	.0476	9.9990	-.0063	.0420	.0327	-.0119	-.0458	-.0342

X/LT	PHI	.9116	.9836
.000	.000	.1377	-.0659
18.000	.1224	.0005	.0005
36.000	.0463	.0697	.0697
54.000	.0108	.0921	.0921
72.000	.0178	.0479	.0479
90.000	.0291	.0541	.0541
108.000	.0111	.0625	.0625
126.000	.0148	.0401	.0401
144.000	.0003	.0018	.0018
162.000	-.0045	.0000	.0000
180.000	-.0056	-.0022	-.0022
198.000	-.0045	.0000	.0000
216.000	.0003	.0018	.0018
234.000	.0148	.0401	.0401
252.000	.0111	.0625	.0625
270.000	.0291	.0541	.0541
288.000	.0178	.0479	.0479
306.000	.0108	.0921	.0921
324.000	.0463	.0697	.0697
342.000	.1224	.0005	.0005
360.000	.1377	-.0659	-.0659

(R02103)

EXTERNAL TANK

MACH (7) = 2.990 BETA (2) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .1224 .0006
360.000 .1377 -.0659

MACH (7) = 2.990 BETA (3) = 4.000 Q = 5.1887 PTA = 3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.3072	.0533	-.0029	.0093	.0181	.0306	.0388	.0444	.1771	-.0096	-.0278	-.0030	-.0181	-.0379	-.0276
18.000	.2890	.0407	-.0174	-.0066	.0097	.0317	.0332	.0336	.1160	-.0271	.0126	.0019	-.0304	-.0599	-.0026
35.000	.2867	.0362	-.0219	-.0107	-.0029	.0213	.0336	.0481	.1160	.0019	-.0278	-.0424	-.0372	-.0465	-.0107
54.000	.2822	.0351	-.0241	-.0133	-.0043	.0217	.0269	.0187	.0608	.0105	-.0689	-.0238	-.0104	-.0156	-.0056
72.000	.3024	.0392	-.0248	-.0140	-.0107	.0064	.1711	.0112	-.0565	-.0580	-.0133	.0301	.0056	-.0002	-.0036
90.000	.3162	.0518	-.0312	-.0148	-.0122	.0932	.5387	.1048	-.0718	-.0718	.0119	-.0134	.0070	.0022	-.0004
108.000	.3598	.0712	-.0413	-.0226	-.0125	.0205	.1883	.1488	.0131	-.0517	-.0196	.0093	.0176	.0157	-.0014
126.000	.3911	.0942	-.0372	-.0335	-.0160	.0074	.0485	.0036	.0389	.0080	-.0107	-.0032	.0090	-.0021	-.0021
144.000	.4672	.1212	-.0237	-.0248	-.0226	.0034	.0362	.0504	-.0006	.0146	.0237	-.0004	-.0041	-.0067	-.0019
162.000	.5067	.1499	-.0088	-.0107	-.0122	.0041	.1003	.0202	.0448	.0601	.0392	.0082	-.0017	-.0144	.0008
180.000	.5622	.1749	.0049	.0026	-.0002	.0004	-.0025	-.0010	.0466	.0545	.0394	.0100	-.0022	-.0108	.0008
198.000	.5790	.1884	.0198	.0138	.0112	.0284	.0369	.0321	.0485	.0168	.0369	.0153	-.0032	.0011	.0019
216.000	.6036	.2095	.0250	.0190	.0157	.0347	.1067	.1063	.0499	.0422	.0093	-.0092	.0034	.0123	.0038
234.000	.5734	.2047	.0209	.0164	.0142	.0354	.1283	.0906	.0936	-.0099	-.0304	-.0189	.0101	.0194	.0066
252.000	.5307	.1965	.0135	.0097	.0086	.0843	.4321	.1898	-.0002	-.0517	-.0196	.0093	.0176	.0157	-.0014
270.000	.5149	.1885	.0026	-.0017	.0019	.3292	.7557	.1663	-.0890	-.0439	.0011	.0220	.0187	.0187	.0127
288.000	.4869	.1417	-.0096	-.0140	-.0096	.0410	.2787	.0354	-.0757	-.0770	-.0466	.0090	.0247	.0217	.0131
306.000	.4249	.1149	-.0201	-.0220	-.0175	.0085	.0141	.0852	.0000	-.0306	-.0655	-.0230	.0250	.0164	.0120
324.000	.3872	.0869	-.0269	-.0261	-.0112	.0070	.0432	.0854	.2079	.0507	-.0405	-.0498	-.0088	.0149	.0127
342.000	.3404	.0658	-.0266	-.0203	.0035	.0136	.0408	.0666	.1498	.0378	-.0316	-.0263	-.0137	.0023	.0456
360.000	.3072	.0533	-.0029	.0093	.0161	.0306	.0388	.0444	9.9990	-.0096	-.0278	-.0030	-.0181	-.0379	-.0276
378.000	.9116	.9836							.1771						

X/LT .9116 .9836

PHI
.0761 -.0913
18.000 .0772 -.0480
35.000 .0617 .0025
54.000 .0286 .0666
72.000 .0157 .0630
90.000 .0152 .0559
108.000 -.0040 .0533
126.000 .0038 .0228
144.000 -.0019 .0006

TABULATED SOURCE DATA, MSFC TMT 957 (1A32F)

(R82T03)

DATE 05 SEP 75

MSFC 957(1A32F) 19 53/2 53/2 03 EXTERNAL TANK

MACH (7) = 2.980 BETA (3) = 4.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .9116 .9838

PHI	
162.000	-.0062
180.000	.0010
198.000	.0101
216.000	.0183
234.000	.0272
252.000	-.0040
270.000	.0504
288.000	.0450
306.000	.0235
324.000	.0548
342.000	.0671
360.000	.0761

MACH (8) = 3.480 BETA (1) = -4.000 Q = 5.6920 PTA = 49.739 RL = 5.3033 PSA = .67267

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI															
.000	.3038	.0572	.0034	.0142	.0193	.0237	.0328	.0386	-.0083	-.0137	.0011	-.0033	-.0198	-.0236	
18.000	.3318	.0674	-.0117	-.0056	.0112	.0143	.0349	.0627	.1308	-.0097	-.0144	-.0127	-.0039	.0159	
36.000	.3768	.0884	-.0113	-.0113	-.0005	.0069	.0356	.0718	.1822	.0715	-.0202	-.0327	-.0054	.0122	
54.000	.4171	.1165	-.0096	-.0078	-.0056	.0095	.0106	.0544	.0221	-.0083	-.0564	-.0286	.0183	.0112	
72.000	.4763	.1405	.0031	.0004	-.0002	.0187	.2191	.0667	-.0482	-.0516	-.0442	-.0073	.0207	.0238	
90.000	.5071	.1671	.0149	.0105	.0095	.2906	.7487	.2216	-.0645	-.0409	-.0060	.0173	.0196	.0118	
108.000	.5518	.1964	.0244	.0211	.0167	.0755	.3348	.2312	-.0367	-.0245	-.0066	.0153	.0204	.0112	
126.000	.5755	.2018	.0315	.0268	.0231	.0345	.1084	.0918	.1128	.0085	-.0161	-.0148	.0169	.0065	
144.000	.5981	.2047	.0345	.0288	.0240	.0345	.0711	.0947	.0305	.0416	-.0204	-.0025	.0031	.0055	
162.000	.5724	.1967	.0295	.0244	.0200	.0309	.0077	.0282	.0529	.0265	.0409	.0169	.0054	.0044	
180.000	.5623	.1752	.0210	.0152	.0108	.0085	.0054	.0081	.0382	.0572	.0403	.0139	-.0056	.0078	
198.000	.4994	.1550	.0070	.0053	.0016	.0117	.0718	.0252	.0415	.0570	.0466	.0169	-.0057	.0091	
216.000	.4575	.1273	-.0047	-.0064	-.0071	.0114	.0459	.0469	.0077	.0171	.0290	.0111	.0043	.0071	
234.000	.3912	.1014	-.0165	-.0142	-.0010	.0111	.0439	.0189	.0290	.0162	-.0010	-.0003	.0148	.0037	
252.000	.3557	.0781	-.0206	-.0040	.0016	.0202	.1501	.1558	.0273	-.0767	-.0245	-.0056	.0204	.0112	
270.000	.3134	.0598	-.0104	.0016	.0030	.0554	.6218	.1014	-.0507	.0124	.0012	.0019	.0117	.0073	
288.000	.2992	.0480	-.0047	.0004	.0004	.0087	.1200	.0273	-.0365	-.0361	-.0125	.0149	.0026	.0066	
306.000	.2789	.0446	-.0016	.0034	.0074	.0240	.0253	.0189	.0544	.0280	-.0425	-.0223	-.0034	.0085	
324.000	.2823	.0449	-.0003	.0077	.0108	.0233	.0311	.0439	.1146	.0169	-.0156	-.0225	-.0223	.0002	
342.000	.2855	.0501	.0044	.0118	.0193	.0355	.0311	.0352	.1928	-.0083	.0181	.0145	-.0101	-.0382	
360.000	.3038	.0572	.0034	.0142	.0193	.0237	.0328	.0386	9.9990	-.0063	-.0137	.0011	-.0033	-.0198	
378.000									.1358					-.0236	

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

DATE 05 SEP 75

(R82T03)

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

MACH (0) = 3.480 BETA (1) = -4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI	.000	.0380	-.0706
18.000	.0417	.1242	
36.000	.0200	.1245	
54.000	.0264	.0815	
72.000	.0376	.0343	
90.000	.0470	.0135	
108.000	.0244	.0234	
126.000	.0230	.0480	
144.000	.0207	.0231	
162.000	.0098	.0125	
180.000	.0007	.0041	
198.000	-.0016	.0023	
216.000	.0047	.0087	
234.000	.0138	.0192	
252.000	.0244	.0234	
270.000	.0175	.0192	
288.000	.0060	.0235	
306.000	.0073	.0489	
324.000	.0333	.0134	
342.000	.0402	-.0287	
360.000	.0380	-.0706	

MACH (0) = 3.480 ZETA (2) = .000 0 = 9.6820 PTA = 48.738 PL = 5.3033 P8A = .87267

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2204	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.0043	.0190	.0230	.0240	.0311	.0491	.1831	.0173	.0484	.0538	.0159	-.0152	-.0374
18.000	.2980	.0562	.0034	.0058	.0125	.0261	.0325	.1309	-.0070	.0315	.0429	.0068	-.0202	.0240
36.000	.3163	.0599	-.0029	.0034	.0088	.0261	.0438	.1309	.0399	-.0401	-.0134	-.0195	-.0114	-.0158
54.000	.3336	.0711	-.0127	-.0002	.0044	.0213	.0244	.0545	-.0134	.0540	-.0246	.0024	.0112	.0010
72.000	.3688	.0863	-.0178	-.0073	.0017	.1999	.0541	-.0361	-.0445	-.0395	-.0266	.0105	.0213	.0068
90.000	.3995	.1059	-.0141	-.0168	.0010	.1472	.2013	-.0489	-.0489	-.0053	-.0073	.0024	.0234	.0115
108.000	.4442	.1299	-.0056	-.0104	-.0033	.0257	.2219	.0335	-.0341	-.0172	.0037	.0067	.0175	.0185
126.000	.4780	.1499	.0044	-.0019	-.0023	.0159	.0535	.1106	.0186	-.0097	-.0016	.0139	.0139	.0108
144.000	.5308	.1702	.0159	.0078	.0051	.0010	.0633	.0349	.0186	.0311	.0305	.0173	.0139	.0044
162.000	.5470	.1861	.0217	.0132	.0105	.0044	.0528	.0568	.0531	.0469	.0341	.0233	.0111	.0010
180.000	.5582	.1895	.0234	.0169	.0139	.0075	.0281	.0386	.0822	.0679	.0415	.0233	.0139	.0000
198.000	.5470	.1861	.0217	.0132	.0105	.0044	.0528	.0568	.0531	.0469	.0341	.0233	.0111	.0010
216.000	.5308	.1702	.0159	.0078	.0051	.0010	.0633	.0349	.0186	.0311	.0305	.0173	.0139	.0044
234.000	.4780	.1499	.0044	-.0019	-.0023	.0159	.0619	.1106	.0186	-.0097	-.0016	.0139	.0139	.0108
252.000	.4442	.1299	-.0056	-.0104	-.0033	.0257	.2192	.0335	-.0341	-.0172	.0037	.0067	.0175	.0185
270.000	.3995	.1059	-.0141	-.0168	.0010	.1472	.2013	-.0489	-.0489	-.0053	-.0073	.0024	.0234	.0115



MSFC 567(1A32F) T9 53/2 53/2 03 EXTERNAL TANK (R82T03)

MACH (8) = 3.480 BETA (2) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2397	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.3668	.0683	-.0178	-.0673	.0017	-.0089	.1868	.0241	-.0381	-.0448	-.0368	-.0266	.0105	.0213	.0088
298.000	.3338	.0711	-.0187	-.0602	.0044	-.0044	.0213	.0244	.0248	-.0134	-.0240	-.0246	.0024	.0112	.0010
324.000	.3183	.0589	-.0029	.0034	.0081	.0088	.0281	.0438	.1308	.0386	-.0401	-.0134	-.0193	-.0114	-.0158
342.000	.2890	.0582	.0034	.0028	.0183	.0132	.0281	.0325	.1831	-.0070	.0315	.0429	.0088	-.0202	.0240
350.000	.3001	.0643	.0180	.0183	.0230	.0240	.0311	.0481	9.8890	.0173	.0484	.0538	.0159	-.0152	-.0374
378.000								.1631							

X/LT .9116 .8838

PHI

.000	.0690	-.0483
18.000	.0588	.0020
36.000	.0173	.0648
54.000	.0118	.0727
72.000	.0217	.0284
90.000	.0352	.0139
108.000	.0209	.0226
126.000	.0227	.0349
144.000	.0081	.0095
152.000	.0050	.0057
180.000	.0080	.0071
198.000	.0050	.0057
216.000	.0081	.0095
234.000	.0227	.0349
252.000	.0209	.0226
270.000	.0352	.0139
288.000	.0217	.0284
306.000	.0118	.0727
324.000	.0173	.0648
342.000	.0588	.0020
360.000	.0690	-.0483

MACH (8) = 3.480 BETA (3) = 4.000 0 = 5.6920 PTA = 49.739 RL = 5.3033 PSA = .67267

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2397	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.3095	.0626	.0156	.0274	.0309	.0365	.0409	.0460	.0085	-.0064	.0050	.0050	-.0030	-.0189	-.0230
18.000	.2825	.0501	.0044	.0118	.0193	.0325	.0311	.0352	.1928	-.0083	.0181	.0145	-.0101	-.0382	-.6186
36.000	.2823	.0449	-.0003	.0077	.0108	.0233	.0311	.0439	.1146	.0169	-.0156	-.0206	-.0233	-.0321	.0062
54.000	.2789	.0446	-.0016	.0054	.0074	.0240	.0253	.0189	.0544	.0280	-.0426	-.0203	-.0034	-.0085	.0050
72.000	.2992	.0480	-.0047	.0037	.0040	.0087	.1200	.0273	-.0365	-.0361	-.0125	-.0149	.0026	.0066	.0073
90.000	.3134	.0598	-.0104	.0016	.0030	.0254	.6218	.1014	-.0507	.0124	.0012	.0019	.0117	.0173	.0073

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

(R82T03)

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

DATE 05 SEP 75

MACH (8) = 3.480 BETA (3) = 4.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
109.000	.3557	.0781	-.0206	-.0040	.0016	.0202	.1501	.1558	.0273	-.0355	-.0185	.0091	.0199	.0206	.0057
126.000	.3912	.1014	-.0165	-.0142	-.0010	.0111	.0439	.0189	.0290	.0162	-.0010	-.0003	.0148	.0037	.0067
144.000	.4575	.1273	-.0047	-.0064	-.0071	.0114	.0459	.0469	.0077	.0171	.0290	.0111	.0043	-.0003	.0071
162.000	.4934	.1550	-.0070	.0053	.0016	.0117	.0718	.0252	.0415	.0570	.0466	.0169	.0077	-.0057	.0091
180.000	.5629	.1778	.0206	.0175	.0125	.0108	.0050	.0098	.0382	.0642	.0449	.0155	.0064	-.0043	.0101
198.000	.5724	.1967	.0295	.0244	.0200	.0309	.0077	.0282	.0529	.0265	.0409	.0169	.0054	.0058	.0044
216.000	.5981	.2047	.0345	.0288	.0240	.0345	.0711	.0947	.0305	.0416	.0204	-.0025	.0031	.0123	.0055
234.000	.5755	.2018	.0319	.0268	.0231	.0346	.1084	.0918	.1128	.0085	-.0161	-.0148	.0081	.0169	.0085
252.000	.5518	.1964	.0244	.0211	.0167	.0755	.3348	.2312	.0268	-.0355	-.0185	.0091	.0199	.0206	.0057
270.000	.5071	.1671	.0149	.0105	.0095	.2906	.7487	.2216	.0268	-.0645	-.0408	-.0050	.0173	.0096	.0118
288.000	.4763	.1405	-.0031	.0037	-.0002	.0187	.2191	.0667	-.0482	-.0516	-.0442	-.0073	.0207	.0078	.0112
306.000	.4171	.1165	-.0056	-.0076	-.0056	.0095	.0106	.0644	.0221	-.0083	-.0564	-.0286	.0220	.0183	.0122
324.000	.3768	.0884	-.0113	-.0113	-.0005	.0089	.0355	.0718	.1822	.0715	-.0202	-.0327	-.0161	.0054	.0122
342.000	.3318	.0674	-.0117	-.0056	.0112	.0143	.0349	.0627	.1358	.0586	.0097	-.0144	-.0127	-.0039	.0159
360.000	.3055	.0626	.0156	.0274	.0308	.0365	.0409	.0460	9.9990	.0085	-.0054	.0050	-.0030	-.0189	-.0230
378.000									.1928						

X/LT .9116 .9836

PHI	.0398	-.0686
.000	.0398	-.0686
18.000	.0402	-.0287
36.000	.0333	.0134
54.000	.0073	.0489
72.000	.0060	.0235
90.000	.0175	.0192
108.000	.0071	.0125
126.000	.0138	.0192
144.000	.0047	.0087
162.000	-.0016	.0023
180.000	.0047	.0084
198.000	.0098	.0125
216.000	.0207	.0231
234.000	.0230	.0460
252.000	.0071	.0125
270.000	.0470	.0135
288.000	.0376	.0343
306.000	.0284	.0815
324.000	.0200	.1245
342.000	.0417	.1242
360.000	.0398	-.0686

MSFC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK (R82704) (24 APR 74)

REFERENCE DATA

SREF = 6.1980 SQ. IN. YMRP = 2.5480 IN. ALPHA = -5.000 CONFIG = 90.000
 LREF = 5.3130 IN. YMRP = .0000 IN. DELTAZ = .140 RUDDER = .000
 BREF = 5.3130 IN. ZMRP = .0000 IN. X-SRB = .000 ORBINC = .500
 SCALE = .0040 SCALE

MACH (1) = .600 BETA (1) = -4.000 Q = 4.3053 PTA = 22.012 RL = 4.9733 PSA = 17.309

PARAMETRIC DATA

SECTION (1)	EXTERNAL TANK	DEPENDENT VARIABLE	CP	PTA	RL	PSA									
X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5095	.5732	.6408	.7085	.7762	.8439
PHI	.000	.2373	-.1533	-.1314	-.0669	.0860	.1621	.2006	.1768	-.5175	-.1500	-.0296	.0077	.0185	.0213
18.000	.2624	-.1175	-.1075	-.0508	.1062	.1739	.2085	.1884	.1884	-.1193	-.0864	-.0242	.0131	.0314	.0423
36.000	.2779	-.1008	-.0890	-.0315	.1127	.1474	.1373	.1054	.1054	-.0342	-.0479	-.0061	.0248	.0421	.0476
54.000	.2661	-.1034	-.0724	-.0069	.1432	.1514	.0695	.0312	.0312	-.0151	-.0324	-.0068	.0194	.0276	.0385
72.000	.2355	-.1317	-.0698	.0578	.1945	.2228	-.0351	-.0807	-.0807	-.0652	-.0351	.0049	.0222	.0295	.0368
90.000	.1687	-.1805	-.0890	.0535	.1531	.1339	-.2737	-.5827	-.5827	-.1924	-.0461	-.0324	-.0324	-.0378	.0415
108.000	.1203	-.2274	-.1560	.0581	-.0306	.1697	-.9559	-.4488	-.4488	-.3500	-.1350	-.0214	-.0305	-.0250	.0350
126.000	.0580	-.2650	-.2576	-.1377	-.1121	.1899	-.2951	-.2521	-.2521	-.1835	-.1240	-.0580	-.0497	-.0369	-.0315
144.000	.0086	-.3340	-.2902	-.2260	-.1229	.1467	-.1787	-.1677	-.1677	-.1430	-.1037	-.0652	-.0616	-.0507	-.0433
162.000	-.0423	-.3611	-.3172	-.2104	-.1227	.1199	-.0323	-.1273	-.1273	-.1163	-.0944	-.0535	-.0489	-.0497	-.0480
180.000	-.0784	-.3802	-.3179	-.3004	-.0958	.0903	-.0995	-.1050	-.1050	-.1039	-.0833	-.0538	-.0430	-.0351	-.0379
198.000	-.0871	-.3747	-.3094	-.2665	-.0789	.0869	-.1254	-.1021	-.1021	-.1039	-.0833	-.0538	-.0430	-.0351	-.0379
216.000	-.0871	-.3684	-.2941	-.2679	-.0929	.0826	-.1176	-.1256	-.1256	-.1167	-.0970	-.0476	-.0360	-.0308	-.0299
234.000	-.0581	-.3345	-.2679	-.2679	-.0929	.0826	-.1176	-.1256	-.1256	-.1167	-.0970	-.0476	-.0360	-.0308	-.0299
252.000	-.0484	-.3145	-.2679	-.2679	-.0929	.0826	-.1176	-.1256	-.1256	-.1167	-.0970	-.0476	-.0360	-.0308	-.0299
270.000	.0066	-.2878	-.1765	.0678	.1517	.1484	-.2674	-.6135	-.6135	-.1899	-.0682	-.0582	-.0458	-.0333	-.0315
288.000	.0523	-.2573	-.1734	.0601	.0880	.1121	.0255	-.0502	-.0502	-.1127	-.1145	-.0332	-.0687	-.0729	-.0750
306.000	.1088	-.2212	-.1595	-.0620	.0533	.0864	.0542	-.0155	-.0155	-.1926	-.1568	-.1670	-.1850	-.1123	-.0531
324.000	.1639	-.1931	-.1383	-.0441	.0563	.1184	.1262	.0581	.0581	-.4523	-.3725	-.3653	-.1609	-.0555	-.0289
342.000	.2373	-.1533	-.1304	-.0589	.0860	.1621	.2306	.1768	.1768	9.9990	-.5175	-.1500	-.0296	.0077	-.0185
360.000															
378.000															

X/LT	PHI
.9115	.9838
.1181	-1.0043
.0749	-4.2559
.0140	-2.5669
.0149	-1.541
.0687	-0.123
.0705	-2.165
.0022	-1.178
-.0287	-1.319
-.0552	-1.693
-.0654	-1.640
-.0607	-1.538
-.0573	-1.512

ORIGINAL PAGE IS OF POOR QUALITY

(RBETON)

EXTERNAL TANK

MSFC 567(1A32F) T9 S3/2 S3/2 03

MACH (1) = .600 BETA (1) = -.000

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .9116 .9836

PHI	216.000	-.0440	-.1371
	234.000	-.0333	-.1252
	252.000	.0022	-.1178
	270.000	.0534	-.1702
	288.000	-.0252	-.1149
	306.000	-.0678	-.1850
	324.000	-.0744	-.2514
	342.000	-.0162	-.4313
	360.000	.1161	-1.0043

MACH (1) = .600 BETA (2) = .065 0 = 4.3053 PTA = 22.012 RL = 4.9733 PSA = 17.309

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.2536	-.1349	-.0654	.0022	.1145	.1921	.2402	.2144	-.6536	-.3389	-.1472	-.0520	-.0093	-.0040
	18.000	.2252	-.1351	-.1119	-.0254	.1101	.1708	.1895	.1414	-.2894	-.1590	-.1196	-.0645	-.0174	-.0155
	36.000	.1995	-.1541	-.1175	-.0763	.1034	.1356	.1070	.0542	-.1201	-.0951	-.0414	-.0173	-.0155	-.0164
	54.000	.1592	-.1815	-.1208	-.0503	.1324	.1449	.0530	.0048	-.0673	-.0771	-.0448	-.0225	-.0057	-.0312
	72.000	.1153	-.2160	-.1261	-.0832	.1963	.2320	-.0263	-.0949	-.0904	-.0637	-.0228	-.0111	.0013	.0075
	90.000	.0530	-.2514	-.1423	.1004	.1665	.1513	-.2630	-.5871	-.1942	-.0414	-.0227	-.0049	-.0049	.0024
	108.000	.0157	-.2859	-.1582	-.0485	.0023	-.1261	-.5072	-.4028	-.3242	-.0260	-.0200	-.0128	-.0084	.0030
	126.000	-.0102	-.3135	-.2511	-.1030	-.0530	-.1279	-.2332	-.2038	-.1511	-.1386	-.0369	-.0269	-.0217	.0191
	144.000	-.0342	-.3395	-.2771	-.2246	-.0627	-.0876	-.1250	-.1223	-.1107	-.0903	-.0342	-.0182	-.0137	-.0173
	162.000	-.0538	-.3510	-.2940	-.2282	-.0638	-.0671	-.0840	-.0840	-.0903	-.0671	-.0333	-.0155	-.0956	-.0110
	180.000	-.0528	-.3555	-.2905	-.2798	-.0584	-.0662	-.0751	-.0751	-.0777	-.0581	-.0208	-.0119	-.0119	.0324
	198.000	-.0538	-.3510	-.2940	-.2282	-.0638	-.0671	-.0840	-.0840	-.0903	-.0671	-.0333	-.0155	-.0956	.0110
	216.000	-.0342	-.3395	-.2771	-.2246	-.0627	-.0876	-.1250	-.1223	-.1107	-.0903	-.0342	-.0182	-.0137	-.0173
	234.000	-.0102	-.3135	-.2511	-.1030	-.0530	-.1279	-.2332	-.2038	-.1511	-.1386	-.0369	-.0269	-.0217	-.0191
	252.000	.0157	-.2859	-.1582	-.0485	.0023	-.1261	-.5072	-.4028	-.3242	-.0260	-.0200	-.0128	-.0084	.0030
	270.000	.0530	-.2514	-.1423	.1004	.1665	.1513	-.2630	-.5871	-.1942	-.0414	-.0227	-.0049	-.0049	.0024
	288.000	.1153	-.2160	-.1261	-.0832	.1963	.2320	-.0263	-.0949	-.0904	-.0637	-.0228	-.0111	.0013	.0075
	306.000	.1592	-.1815	-.1208	-.0503	.1324	.1449	.0530	.0048	-.0673	-.0771	-.0448	-.0225	-.0057	.0312
	324.000	.1995	-.1541	-.1175	-.0763	.1034	.1356	.1070	.0542	-.1201	-.0951	-.0414	-.0173	-.0155	.0164
	342.000	.2252	-.1351	-.1119	-.0254	.1101	.1708	.1895	.1414	-.2894	-.1590	-.1196	-.0645	-.0174	.0155
	360.000	.2536	-.1349	-.0654	.0022	.1145	.1921	.2402	.2144	-.6536	-.3389	-.1472	-.0520	-.0093	.0040
	378.000									-.2894					

X/LT .9116 .9836

PHI

.000	.0191	-.5889
18.000	-.0315	-.3074

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

IRBETON:

EXTERNAL TANK

MSFC 567(1A32F) TO S3/2 S3/2 03

MACH (1) • .600 BETA (3) • 4.600

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1850	.2803	.2347	.2707	.3139	.3498	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8438
PHI	.2779	-.1008	-.0690	-.0318	.1127	.1474	.1373	.1054	-.0342	-.0478	-.0081	.0248	.0421	.0476	.0487
324.000	.2824	-.1175	-.1075	-.0508	.1082	.1738	.2085	.1884	-.1193	-.0864	-.0242	.0131	.0314	.0414	.0423
342.000	.2210	-.1582	-.1270	-.0859	.0862	.1603	.2138	.1754	9.9950	-.9518	-.2083	-.0557	-.0038	.0078	.0624
360.000									-.4523						
378.000															

X/LT .9116 .8658

PHI

.000	.0606	-.9274
18.000	-.0162	-.4313
36.000	-.0744	-.2314
54.000	-.0678	-.1950
72.000	-.0252	-.1149
90.000	-.0534	-.1762
108.000	-.0046	-.0707
126.000	-.0333	-.1252
144.000	-.0440	-.1371
162.000	-.0573	-.1512
180.000	-.0700	-.1639
198.000	-.0624	-.1640
216.000	-.0552	-.1683
234.000	-.0287	-.1318
252.000	-.0046	-.0707
270.000	.0705	-.2185
288.000	.0887	-.0123
306.000	.0149	-.1541
324.000	.0140	-.2559
342.000	.0749	-.4559
360.000	.0998	-.6974

MACH (2) • .600 BETA (1) • -4.000 Q • 7.3813 PTA • 22.048 PL • 6.2700 PSA • 13.833

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8438
PHI	.3295	-.2034	-.1534	.0224	.1604	.2789	.3490	.2979	.0182	-.2828	-.0911	-.0274	.0309	.0565	.0797
18.000	.3472	-.1659	-.2185	.0869	.1735	.2714	.3241	.2856	.0182	-.2828	-.0911	.0150	.0555	.0833	.1133
36.000	.3605	-.1458	-.1931	.1290	.1918	.2498	.2234	.1623	-.0117	-.2015	-.0933	.0220	.0526	.0890	.1211
54.000	.3458	-.1577	-.1308	.0995	.2366	.2838	.1280	-.0048	-.0106	-.1819	-.0834	.0178	.0500	.0811	.0951
72.000	.3172	-.1918	-.1183	.1539	.3014	.3727	.1434	-.2097	-.0638	-.1489	-.0505	.0171	.0454	.0717	.1032
90.000	.2943	-.2402	-.0480	.1289	.2769	.3217	.1847	-.6137	-.2624	-.0948	.0218	.0432	.0518	.0534	.0534
108.000	.2028	-.2862	-.1188	.0304	.0842	.0811	-.3958	-.7015	-.4280	-.2862	-.0443	.0187	.0156	.0234	.0318
126.000	.1423	-.3473	-.2285	-.0486	-.0149	-.0998	-.3277	-.9916	-.3240	-.2882	-.1075	-.0059	.0246	.0219	.0256

(POSITION)

MACH (2) = .900 BETA (2) = .000 Q = 7.3613 PTA = 22.005 RL = 6.2700 PSA = 13.333

EXTERNAL TANK

MSFC 567(11A32F) 19 53/2 53/2 03

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.3278	-.2024	-.1683	.0325	.1884	.3019	.3757	.3228	-.6480	-.2629	-.1292	-.0191	.0391	.3653
18.000	.2983	-.2025	-.1793	.0565	.1858	.2836	.3160	.2292	-.2301	-.5278	-.1467	-.0779	-.0201	.0306	.3533
36.000	.2692	-.2265	-.2061	.0781	.1953	.2603	.2147	.0948	-.1632	-.3485	-.1289	-.0315	.0121	.0263	.2442
54.000	.2313	-.2678	-.2913	.1601	.2418	.2862	.1439	-.0933	-.0946	-.2526	-.1131	-.0291	.0039	.0280	.2485
72.000	.1900	-.3122	-.0674	.1366	.3150	.3924	.1732	-.4085	-.1171	-.2034	-.1182	-.0464	.0239	.0285	.2520
90.000	.1234	-.3610	-.0365	.1322	.2948	.3355	.1824	-.6620	-.3197	-.0937	-.0070	.0296	.0369	.0449	.2449
108.000	.1103	-.3970	-.0790	.0494	.1219	.0316	-.3146	-.7282	-.4311	.3267	-.0699	.0271	.0407	.0365	.2481
126.000	.0546	-.4259	-.1655	-.0103	.0567	-.0228	-.2472	-.5297	-.2482	-.2954	-.0796	-.0033	.0135	.0145	.3244
144.000	.0379	-.4479	-.4322	.0017	.0379	-.0234	-.1722	-.3536	-.1717	.1995	-.0617	-.0075	.0282	.0087	.3145
162.000	.0196	-.4602	-.4471	-.1298	.0317	-.0186	-.1313	-.2541	-.1570	-.1528	-.0537	-.0007	.0134	.0113	.3113
180.000	.0145	-.4641	-.4841	-.1751	.0339	.0201	-.1189	-.2297	-.1530	-.1373	-.0558	-.0090	.0296	.0129	.3048
198.000	.0186	-.4602	-.4471	-.1298	.0317	-.0186	-.1313	-.2541	-.1570	-.1528	-.0537	-.0007	.0134	.0113	.3113
216.000	.0379	-.4479	-.4322	.0017	.0379	-.0234	-.1722	-.3536	-.1717	.1995	-.0617	-.0075	.0282	.0087	.3145
234.000	.0546	-.4259	-.1655	-.0103	.0567	-.0228	-.2472	-.5297	-.2482	-.2954	-.0796	-.0033	.0135	.0145	.3244
252.000	.1103	-.3970	-.0790	.0494	.1219	.0316	-.3146	-.7282	-.4311	.3267	-.0699	.0271	.0407	.0365	.2481
270.000	.1234	-.3610	-.0365	.1322	.2948	.3355	.1824	-.6620	-.3197	-.0937	-.0070	.0296	.0369	.0449	.2449
288.000	.1500	-.3122	-.0674	.1366	.3150	.3924	.1732	-.4085	-.1171	.2034	-.1182	-.0464	.0239	.0285	.2520
306.000	.2313	-.2678	-.2913	.1601	.2418	.2862	.1439	-.0933	-.0946	-.2526	-.1131	-.0291	.0039	.0280	.2485
324.000	.2692	-.2265	-.2061	.0781	.1953	.2603	.2147	.0948	-.1632	-.3485	-.1289	-.0315	.0121	.0263	.2442
342.000	.2983	-.2025	-.1793	.0565	.1858	.2836	.3160	.2292	-.2301	-.5278	-.1467	-.0779	-.0201	.0306	.3533
360.000	.3278	-.2024	-.1683	.0325	.1884	.3019	.3757	.3228	-.2301	-.6480	-.2629	-.1292	-.0191	.0391	.3653
378.000	.9116	.9836													

SECTION (2) EXTERNAL TANK

X/LT	.1203	-.6482	.0670	-.3010	.0191	-.1772	.0270	-.0832	.0668	.0180	.1126	-.0595	.0643	-.0075	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772	
PHI	.000	.1203	-.6482	.0670	-.3010	.0191	-.1772	.0270	-.0832	.0668	.0180	.1126	-.0595	.0643	-.0075	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772
18.000	.0670	-.3010	.0191	-.1772	.0270	-.0832	.0668	.0180	.1126	-.0595	.0643	-.0075	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772			
36.000	.0191	-.1772	.0270	-.0832	.0668	.0180	.1126	-.0595	.0643	-.0075	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772					
54.000	.0270	-.0832	.0668	.0180	.1126	-.0595	.0643	-.0075	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772							
72.000	.0668	.0180	.1126	-.0595	.0643	-.0075	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772									
90.000	.0180	.1126	-.0595	.0643	-.0075	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772										
108.000	.1126	-.0595	.0643	-.0075	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772											
126.000	.0643	-.0075	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772													
144.000	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772															
162.000	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772																	
180.000	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772																			
198.000	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772																							
216.000	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772															
234.000	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772																													
252.000	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772															
270.000	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772																	
288.000	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772																			
306.000	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772																							
324.000	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772															
342.000	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772																													
360.000	.0229	-.0706	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772															
378.000	.0024	-.1134	-.0106	-.1363	-.0070	-.1299	-.0070	-.1134	.0229	-.0706	.0024	-.1134	.0643	-.0075	.1126	-.0595	.0668	.0180	.0270	-.0832	.0191	-.1772																	

MSFC 56711A32F) T9 S3/2 S3/2 03 EXTERNAL TASK (R827C)

MACH (2) = .500 BETA (2) = .000

SECTION 1 (INTERNAL TASK DEPENDENT VARIABLE CP

4,LT .9116 .9836

Phi
342.000 .0870 -.3010
360.000 .1203 -.6482

MACH (2) = .500 BETA (3) = 4.000 Q = 7.3613 PTA = 3816 4.378 5095 5732 6408 7025 7062 8435

SECTION 1 (INTERNAL TASK DEPENDENT VARIABLE CP

4,LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5095 5732 6408 7025 7062 8435
Phi
1.000 .3127 -.2106 -.2568 0651 .1753 .2875 .3662 .3100
3.000 .2522 -.2529 -.1591 .0137 .2580 .2621 .1768
56.000 .1941 -.2923 -.1424 .0316 .1736 .2412 .1914 .0557
54.000 .1302 -.3538 -.2788 .0977 .2241 .2756 .1502 -.0954
72.000 .0842 -.4048 -.1759 .3175 .3994 .1951 -.3172
90.000 .0282 .4471 -.0553 .1439 .3233 .3406 .1712
108.000 .0053 .4525 -.0533 .0563 .1441 .0527 .3155
126.000 -.0052 .4916 -.1639 .0369 .0955 .0044 .2149
144.000 -.0139 .4863 .3959 .0502 .0611 .0065 .1389
162.000 .0107 .4995 .4623 .1459 .0329 .0170 .1835
180.000 .0127 .4695 .5141 .2323 .0258 .0292 .1237
198.000 .0354 .4535 .2930 .1335 .0443 .0949 .1163
216.000 .0525 .4233 .2895 .0892 .0465 .1008 .2635
234.000 .1423 .3473 .2285 .0486 .0149 .0499 .3277
252.000 .2028 .2862 .1186 .0304 .0942 .0111 .553
270.000 .2543 .2402 .0492 .1289 .2709 .2217 .1647
288.000 .3172 .1918 .1183 .1735 .3014 .3727 .1454
306.000 .3463 .1577 .1308 .0995 .2366 .2698 .1292
324.000 .3605 .1498 .1931 .1290 .1918 .2459 .2234
342.000 .3472 .1659 .2185 .0509 .1735 .2714 .3241
360.000 .3127 .2105 .2568 .0951 .1753 .2875 .3662
4,LT .9116 .9836

Phi
1.000 .2272 -.5725
18.000 .0870 .3912
36.000 .0059 .1061
54.000 -.0058 .1281
72.000 .0340 .0405
90.000 .0981 .0913
108.000 .0502 .0053
126.000 .0055 .0795
144.000 -.0112 .1231

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82104)

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

DATE 05 SEP 75

MACH (2) = .900 BETA (3) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.9836
PHI		
162.000	-.0185	-.1377
180.000	-.0281	-.1444
198.000	-.0259	-.1372
216.000	-.0011	-.1122
234.000	.0319	-.0596
252.000	.0502	-.0059
270.000	.1959	-.0669
288.000	.1625	.1599
306.000	.1365	.0278
324.000	.1624	-.0876
342.000	.2358	-.2828
360.000	.2272	-.5785

MACH (3) = 1.050 BETA (1) = -4.000 0 = 8.4020 PTA = 22.003 RL = 6.5633 PSA = 11.064

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7082	.7762	.8439
PHI															
18.000	.4730	-.0364	-.3393	.0374	.3210	.4344	.5033	.4505	.2032	-.5978	-.2479	-.1913	-.0225	.1040	.1019
36.000	.4876	-.0061	-.3411	.0712	.3367	.4241	.4738	.4310	.1716	-.3742	-.3544	-.1573	.0156	.1354	.2323
54.000	.5035	.0140	-.2805	.1234	.3592	.4120	.3945	.3063	.1625	-.1937	-.1958	-.1622	.0025	.1475	.2372
72.000	.4888	.0000	-.2337	.1588	.3998	.4321	.3063	.0505	.1625	-.1337	-.1233	-.2358	-.0122	.1406	.2149
90.000	.4646	-.0286	-.1997	.1934	.4546	.5304	.3428	-.3905	.1032	-.1155	-.0883	-.2296	-.0158	.1276	.2139
108.000	.4036	-.0724	-.1775	.1854	.4392	.4765	.3655	-.6519	.1032	-.3557	-.1214	-.1067	-.0122	.0922	.1629
126.000	.3501	-.1086	-.2833	.0687	.2466	.1749	.1210	-.6721	-.4285	-.2552	-.0369	-.0464	-.0351	.0636	.1279
144.000	.3045	-.1657	-.4092	-.0838	.1531	.1006	-.0912	-.4675	-.2371	-.2490	-.1105	-.0423	.0225	.0635	.1221
162.000	.2581	-.2123	-.4922	-.2132	.1209	.1044	-.0281	-.2353	-.1662	-.2178	-.1115	-.0825	-.0484	.0433	.1023
180.000	.2079	-.2516	-.4891	-.1995	.1125	.1267	.0985	-.1013	-.1962	-.2317	-.0944	-.0613	-.0488	.0322	.0893
198.000	.1822	-.2654	-.3803	-.2404	.1025	.1628	.0919	-.0240	-.2298	-.2325	-.0825	-.0405	-.0313	.0387	.0792
216.000	.1688	-.2817	-.3178	-.2125	.0817	.1585	.0394	-.0226	-.2079	-.2591	-.0780	-.0346	-.0299	.0449	.0971
234.000	.1650	-.2849	-.3397	-.1887	.1213	.1862	.0725	-.1064	-.1630	-.2974	-.0696	-.0368	-.0248	.0484	.1005
252.000	.1672	-.2815	-.2838	-.0396	.1628	.1902	.0013	.3750	-.1875	-.3193	-.0904	-.0539	-.0253	.0530	.1084
270.000	.1785	-.2662	-.1084	.0096	.2574	.2292	-.0844	-.6588	.4650	-.2552	-.0369	-.0464	-.0351	.0636	.1279
288.000	.1969	-.2470	-.1288	.0257	.4344	.4865	.3339	-.6180	.4650	-.3581	-.1038	-.1010	-.0552	.0682	.1402
306.000	.2508	-.2161	-.1834	.1934	.4404	.5464	.3671	-.0875	.0211	-.2728	-.2031	-.1846	-.0313	.0863	.1482
324.000	.2913	-.1747	-.2622	-.0544	.3807	.4420	.3263	.1018	.0423	-.3175	-.2486	-.2126	-.0156	.0919	.1463
342.000	.3473	-.1249	-.3483	.0257	.3381	.4040	.3607	.2335	.0686	-.3967	-.2319	-.2370	-.0392	.0895	.1601
360.000	.3991	-.0880	-.3904	.0345	.3180	.4194	.4378	.3410	-.1903	-.5803	-.1822	-.2367	-.0604	.0891	.1670
378.000	.4730	-.0384	-.3353	.0374	.3210	.4344	.5033	.4505	.2032	-.5978	-.2479	-.1913	-.0225	.1040	.1019

(R02TON)

EXTERNAL TANK

MSFC 567(1A3ZF) TO 53/2 53/2 03

MACH (3) = 1.050 BETA (1) = -4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	PHI	PTA	RL	PSA
.000	.3991	-.2841		
10.000	.3870	-.1068		
36.000	.3210	.1093		
54.000	.2916	.2259		
72.000	.3051	.3386		
90.000	.2712	.0982		
108.000	.1840	.1362		
126.000	.1548	.0755		
144.000	.1225	.0317		
162.000	.1050	.0128		
180.000	.0972	-.0013		
198.000	.1059	.0033		
216.000	.1129	.0180		
234.000	.1301	.0563		
252.000	.1640	.1362		
270.000	.2011	.2770		
288.000	.1713	.1094		
306.000	.1569	.0393		
324.000	.1731	-.0479		
342.000	.2635	-.2501		
350.000	.3991	-.2941		

MACH (3) = 1.050 BETA (2) = .000 Q = 8.4020 PTA = 22.003 RL = 6.5633 PSA = 11.064

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	PHI	PTA	RL	PSA											
.000	.4665	-.0406	-.2435	.0017	.3505	.4268	.5254	.4734	.0008	-.4607	-.1367	-.1790	-.0176	.1143	.1667
10.000	.4477	-.0402	-.2936	.0871	.3559	.4454	.4782	.3908	.0008	-.4607	-.1367	-.1790	-.0176	.1143	.1667
36.000	.4215	-.0504	-.2533	.0195	.3700	.4256	.3839	.2667	.0447	-.2974	-.1861	-.1978	-.0026	.1226	.1814
54.000	.3813	-.0859	-.2040	.0182	.4135	.4450	.3261	.0725	.0973	-.2298	-.1864	-.1928	-.0039	.1202	.1676
72.000	.3472	-.1275	-.1749	.1358	.4764	.3467	.3619	-.2525	.0627	-.2002	-.1486	-.1847	-.0075	.1120	.1662
90.000	.2908	-.1873	-.1874	.1174	.4594	.4883	.3539	-.5464	-.3394	-.3394	-.1004	-.0873	-.0099	.0902	.1297
108.000	.2775	-.1972	-.1880	.0415	.2890	.2197	-.0810	-.6546	-.4351	-.3300	-.0576	-.0314	-.0096	.0747	.1281
126.000	.2394	-.2222	-.3393	-.0126	.1982	.1784	-.0186	-.4108	-.1859	-.2778	-.0837	-.0333	-.0131	.0616	.1172
144.000	.2171	-.2398	-.3733	-.1563	.1751	.1800	.0588	-.1384	-.1453	-.2600	-.0604	-.0337	-.0199	.0467	.1005
162.000	.1968	-.2599	-.3442	-.2393	.1239	.1919	.0995	-.0287	-.2094	-.2421	-.0544	-.0121	-.0048	.0358	.1045
180.000	.2003	-.2548	-.3104	-.2284	.0898	.1871	.1213	.0033	-.2192	-.2224	-.0580	-.0153	-.0084	.0371	.0929
198.000	.1968	-.2599	-.3442	-.2393	.1239	.1919	.0995	-.0287	-.2094	-.2421	-.0544	-.0121	-.0048	.0358	.1045
216.000	.2171	-.2398	-.3733	-.1563	.1751	.1800	.0588	-.1384	-.1453	-.2600	-.0604	-.0337	-.0199	.0467	.1005
234.000	.2394	-.2222	-.3393	-.0126	.1982	.1784	-.0186	-.4108	-.1859	-.2778	-.0837	-.0333	-.0131	.0616	.1172
252.000	.2775	-.1972	-.1880	.0415	.2890	.2197	-.0810	-.6546	-.4351	-.3300	-.0576	-.0314	-.0096	.0747	.1281
270.000	.2908	-.1873	-.1874	.1174	.4594	.4883	.3539	-.5464	-.3394	-.3394	-.1004	-.0873	-.0099	.0902	.1297

MSFC 567(11A32F) T9 S3/2 S3/2 03 EXTERNAL TANK (R82T0+)

MACH (3) = 1.050 BETA (2) = .000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7065	.7762	.8439
PHI															
288.000	.3472	-.1275	-.1749	.1358	.4764	.5467	.3619	-.2926	.0627	-.2002	-.1486	-.1647	-.5075	.1120	.1662
305.000	.3813	-.0959	-.2040	.0182	.4135	.4490	.3261	.0725	.0973	-.2298	-.1864	-.1928	.0039	.1202	.1676
324.000	.4215	-.0604	-.2533	.0195	.3700	.4256	.3938	.2667	.0447	-.2974	-.1861	-.1976	-.0026	.1228	.1814
342.000	.4477	-.0402	-.2936	.0571	.3559	.4454	.4762	.3908	.0006	-.4607	-.1367	-.1790	-.0176	.1139	.1816
360.000	.4665	-.0406	-.2435	.0017	.3505	.4568	.5354	.4734	9.9990	-.5739	-.1417	-.1805	-.0310	.1143	.1867
378.000									.0006						

X/LT .9116 .9838

PHI

.000	.2828	-.6250
18.000	.2278	-.2851
36.000	.1791	-.0567
54.000	.1736	.0825
72.000	.1957	.1616
90.000	.2170	.0851
108.000	.1676	.1101
126.000	.1428	.0690
144.000	.1189	.0315
162.000	.1133	.0172
180.000	.1123	.0108
198.000	.1133	.0172
216.000	.1189	.0315
234.000	.1428	.0690
252.000	.1676	.1101
270.000	.2170	.0851
288.000	.2278	.1616
306.000	.1736	.0825
324.000	.1791	-.0567
342.000	.2278	-.2851
360.000	.2828	-.6250

MACH (3) = 1.050 BETA (3) = 4.000 0 = 8.4020 PTA = 22.003 RL = 6.5633 PSA = 11.064

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7065	.7762	.8439
PHI															
.000	.4933	-.0525	-.2229	-.1474	.3427	.4399	.5086	.4593	-.6067	-.1957	-.1908	-.0262	.1107	.1932	
18.000	.3991	-.0880	-.3904	.0345	.3180	.4194	.4378	.3410	-.1903	-.5903	-.1822	-.2367	-.0604	.0891	.1670
36.000	.3473	-.1249	-.3483	.0257	.3381	.4040	.3607	.2335	-.0686	-.3967	-.2319	-.2370	-.0382	.0895	.1601
54.000	.2913	-.1747	-.2822	-.0544	.3807	.4420	.3263	.1018	.0423	-.3175	-.2486	-.2126	-.0156	.0919	.1463
72.000	.2506	-.2161	-.1834	.0105	.4404	.5464	.3671	-.0875	.0211	-.2728	-.2031	-.1646	-.0313	.0863	.1482
90.000	.1989	-.2470	-.1288	.0257	.4344	.4865	.3339	-.6180	-.3581	-.1038	-.1010	-.0552	.0682	.1402	

(R62104)

MSFC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK

MACH (3) = 1.050 BETA (3) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2397	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
108.000	.1765	-.2882	-.1084	.0086	.2574	.2252	-.0844	-.6588	-.4850	-.3857	-.0844	-.0466	-.0133	.0747	.1292
126.000	.1672	-.2815	-.2838	-.0396	.1626	.1902	.0013	-.3750	-.1875	-.3193	-.0904	-.0539	-.0253	.0530	.1084
144.000	.1650	-.2849	-.3357	-.1887	.1213	.1862	.0725	-.1064	-.1630	-.2974	-.0656	-.0368	-.0248	.0484	.1005
162.000	.1686	-.2817	-.3176	-.2125	.0817	.1585	.0384	-.0226	-.2079	-.2591	-.0780	-.0346	-.0299	.0449	.0971
180.000	.1823	-.2717	-.3480	-.2371	.0065	.1403	.0583	-.0119	-.2283	-.2459	-.0853	-.0429	-.0378	.0309	.0743
199.000	.2079	-.2516	-.4991	-.1995	.1125	.1267	.0895	-.1013	-.1862	-.2317	-.0944	-.0613	-.0488	.0322	.0893
216.000	.2581	-.2123	-.4822	-.2132	.1209	.1044	-.0281	-.2353	-.1662	-.2178	-.1115	-.0825	-.0484	.0433	.1023
234.000	.3045	-.1657	-.4092	-.0838	.1531	.1006	-.0912	-.4985	-.2371	-.2490	-.1105	-.0423	-.0225	.0635	.1221
252.000	.3601	-.1086	-.2833	.0687	.2466	.1749	-.1210	-.6721	-.4285	-.3857	-.0844	-.0466	-.0133	.0747	.1292
270.000	.4056	-.0724	-.1775	.1654	.4392	.4765	.3695	-.6519	-.3905	-.3557	-.1214	-.1067	-.0122	.0962	.1629
288.000	.4646	-.0286	-.1997	.0105	.4646	.5304	.3428	-.3905	.1032	-.1155	-.0883	-.2286	-.0158	.1276	.2139
306.000	.4868	.0020	-.2337	.1588	.3998	.4321	.3063	.0505	.1625	-.1337	-.1233	-.2358	-.0122	.1406	.2149
324.000	.5035	.0140	-.2805	.1234	.3582	.4120	.3845	.3063	.1716	-.1937	-.1958	-.1622	.0025	.1475	.2372
342.000	.4876	-.0061	-.3411	.0712	.3367	.4241	.4738	.4310	.2032	-.3742	-.3544	-.1573	.0156	.1354	.2225
350.000	.4533	-.0525	-.2229	-.1474	.3427	.4399	.5086	.4593	9.9990	-.6067	-.1957	-.1908	-.0262	.1107	.1932
378.000									-.1903						

X/LT .9116 .9836

PHI	.3994	-.2897	.2635	-.2501	.1731	-.0479	.1569	.0393	.72.000	.1713	.1094	.2011	.0770	108.000	.1675	.1130	144.000	.1301	.0563	162.000	.1099	.0033	180.000	.0974	.0004	199.000	.1650	.0128	216.000	.1225	.0317	234.000	.1548	.0755	252.000	.1675	.1130	270.000	.2712	.0982	288.000	.3051	.3386	306.000	.2916	.2259	324.000	.3210	.1093	342.000	.3873	-.1068	350.000	.3994	-.2897
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(R82704)

EXTERNAL TANK

MSFC 567(1A32F) T9 S3/2 S3/2 O3

MACH (4) = 1.250 BETA (1) = -.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .8836

PHI
342.000 .2811 -.2862
359.000 .4134 -.2983

MACH (4) = 1.250 BETA (2) = .000 Q = 9.2790 PTA = 3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1950 .2203 .2347 .2707 .3139 .3489 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439
PHI
.000 .5444 .0587 -.2365 -.1849 .2666 .5181 .6419
18.000 .5211 .0561 -.2441 -.2350 -.1880 .3060 .4408 .5161 .1638 .2982 -.0178 -.0619 -.1581 -.0957 .0662
36.000 .4977 .0411 -.2609 -.2493 -.1739 .2938 .4286 .4057 .1448 -.1810 -.0919 -.0549 -.1552 -.1219 .1092
54.000 .4609 .0149 -.2783 -.2596 -.1444 .3968 .4101 .2087 .2408 -.1623 -.0919 -.0882 -.1306 -.1182 .0791
72.000 .4276 -.0186 -.3026 -.2864 .0666 .5675 .4963 .2410 .2523 -.0744 -.0054 -.0765 -.1194 -.1069 .0798
90.000 .3738 -.0499 -.3238 -.3109 .1165 .5465 .5328 .5211 .3607 -.2704 -.0669 -.0524 -.0532 .0611 .0392
108.000 .3556 -.0716 -.3441 -.3291 .0107 .2195 .0078 .5721 -.3607 -.2704 -.0669 -.0524 -.0532 .0611 .0392
126.000 .3285 -.0983 -.3619 -.3452 -.1582 .0262 .0262 .5265 -.1337 .2386 -.0490 -.0461 -.0274 .0311 .0297
144.000 .3126 -.1177 .3682 .3542 .2787 .0341 .0295 .5173 .1023 .2335 .0615 .0303 .0149 .0307 .0166
162.000 .2999 -.1310 .3672 .3539 .2924 .0927 .1160 .4173 .0902 .1817 .1298 .0041 .0261 .0150 .0091
180.000 .2990 .1339 .3639 .3415 .2986 .1439 .1530 .3555 .0349 .1586 .1851 .0075 .0266 .0124 .0324
198.000 .2959 .1310 .3672 .3539 .2924 .0927 .1160 .4173 .0902 .1817 .1298 .0041 .0261 .0150 .0091
216.000 .3126 .1177 .3682 .3542 .2787 .0341 .0295 .5173 .1023 .2335 .0615 .0303 .0149 .0307 .0166
234.000 .3285 .0983 .3619 .3452 .1582 .0262 .0262 .5265 .1337 .2386 .0490 .0461 .0274 .0311 .0297
252.000 .3556 .0716 .3441 .3291 .0107 .2195 .0078 .5721 .3607 .2704 .0669 .0524 .0532 .0611 .0392
270.000 .3738 .0499 .3238 .3109 .1165 .5465 .5328 .5211 .3607 .2704 .0669 .0524 .0532 .0611 .0392
288.000 .4276 .0186 .3026 .2864 .0666 .5675 .4963 .2410 .2523 .0744 .0054 .0765 .1194 .1069 .0798
306.000 .4609 .0149 .2783 .2596 .1444 .3968 .4101 .2087 .2408 .1623 .0919 .0882 .1306 .1182 .0791
324.000 .4977 .0411 .2609 .2493 .1739 .2938 .4286 .4057 .1448 .1810 .0919 .0549 .1552 .1219 .1092
342.000 .5211 .0561 .2441 .2350 .1680 .3060 .4408 .5161 .1638 .2982 .0178 .0686 .1555 .1069 .0904
360.000 .5444 .0587 .2365 .1849 .2666 .5181 .6419 .9.9990 .3911 .0083 .0619 .1581 .0957 .0662
378.000 .9116 .8836 .1638

X/LT .9116 .8836
PHI
.000 .3175 -.4487
18.000 .2504 -.3072
36.000 .1939 -.0957
54.000 .1744 .0928
72.000 .1689 .1789
90.000 .1823 .0558
108.000 .1563 .0986
126.000 .0516 .0858
144.000 .0170 .0524

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OF POOR QUALITY

MSFC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK (R82T04)

MACH (4) = 1.250 BETA (2) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0116 .6836

PHI	182.000	180.000	188.000	216.000	234.000	252.000	270.000	306.000	324.000	342.000	360.000
	.0120	.0050	.0120	.0170	.0516	.1063	.1803	.1744	.1939	.2504	.3175
	.0473	.0433	.0473	.0524	.0858	.0956	.0558	.0228	.0957	.3072	.4487

MACH (4) = 1.250 BETA (3) = 4.000 Q = 9.2790 PTA = 3816 PTA = 22.005 RL = 6.6800 PSA = 8.5363

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3489 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	18.000	36.000	54.000	72.000	90.000	108.000	126.000	144.000	162.000	180.000	198.000	216.000	234.000	252.000	270.000	306.000	324.000	342.000	360.000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	.0016	.0250	.0128	.0502	.0865	.1291	.1414	.1531	.1528	.1510	.1352	.1189	.0951	.0548	.0042	.0303	.0695	.1072	.1463	.1863	.2277	.2684	.3081	.3468	.3845	.4212	.4579	.4946	.5313	.5680	.6047	.6414	.6781	.7148	.7515	.7882	.8249	.8616	.8983	.9350	.9717	.0084	.0451	.0818	.1185	.1552	.1919	.2286	.2653	.3020	.3387	.3754	.4121	.4488	.4855	.5222	.5589	.5956	.6323	.6690	.7057	.7424	.7791	.8158	.8525	.8892	.9259	.9626	.9993	.0360	.0727	.1094	.1461	.1828	.2195	.2562	.2929	.3296	.3663	.4030	.4397	.4764	.5131	.5498	.5865	.6232	.6599	.6966	.7333	.7700	.8067	.8434	.8801	.9168	.9535	.9902	.0269	.0636	.1003	.1370	.1737	.2104	.2471	.2838	.3205	.3572	.3939	.4306	.4673	.5040	.5407	.5774	.6141	.6508	.6875	.7242	.7609	.7976	.8343	.8710	.9077	.9444	.9811	.0178	.0545	.0912	.1279	.1646	.2013	.2380	.2747	.3114	.3481	.3848	.4215	.4582	.4949	.5316	.5683	.6050	.6417	.6784	.7151	.7518	.7885	.8252	.8619	.8986	.9353	.9720	.0087	.0454	.0821	.1188	.1555	.1922	.2289	.2656	.3023	.3390	.3757	.4124	.4491	.4858	.5225	.5592	.5959	.6326	.6693	.7060	.7427	.7794	.8161	.8528	.8895	.9262	.9629	.9996	.0393	.0760	.1127	.1494	.1861	.2228	.2595	.2962	.3329	.3696	.4063	.4430	.4797	.5164	.5531	.5898	.6265	.6632	.7000	.7367	.7734	.8101	.8468	.8835	.9202	.9569	.9936	.0303	.0670	.1037	.1404	.1771	.2138	.2505	.2872	.3239	.3606	.3973	.4340	.4707	.5074	.5441	.5808	.6175	.6542	.6909	.7276	.7643	.8010	.8377	.8744	.9111	.9478	.9845	.0214	.0581	.0948	.1315	.1682	.2049	.2416	.2783	.3150	.3517	.3884	.4251	.4618	.4985	.5352	.5719	.6086	.6453	.6820	.7187	.7554	.7921	.8288	.8655	.9022	.9389	.9756	.0125	.0492	.0859	.1226	.1593	.1960	.2327	.2694	.3061	.3428	.3795	.4162	.4529	.4896	.5263	.5630	.5997	.6364	.6731	.7098	.7465	.7832	.8200	.8567	.8934	.9301	.9668	.0035	.0402	.0769	.1136	.1503	.1870	.2237	.2604	.2971	.3338	.3705	.4072	.4439	.4806	.5173	.5540	.5907	.6274	.6641	.7008	.7375	.7742	.8109	.8476	.8843	.9210	.9577	.9944	.0340	.0707	.1074	.1441	.1808	.2175	.2542	.2909	.3276	.3643	.4010	.4377	.4744	.5111	.5478	.5845	.6212	.6579	.6946	.7313	.7680	.8047	.8414	.8781	.9148	.9515	.9882	.0245	.0612	.0979	.1346	.1713	.2080	.2447	.2814	.3181	.3548	.3915	.4282	.4649	.5016	.5383	.5750	.6117	.6484	.6851	.7218	.7585	.7952	.8319	.8686	.9053	.9420	.9787	.0156	.0523	.0890	.1257	.1624	.1991	.2358	.2725	.3092	.3459	.3826	.4193	.4560	.4927	.5294	.5661	.6028	.6395	.6762	.7129	.7496	.7863	.8230	.8597	.8964	.9331	.9698	.0067	.0434	.0801	.1168	.1535	.1902	.2269	.2636	.3003	.3370	.3737	.4104	.4471	.4838	.5205	.5572	.5939	.6306	.6673	.7040	.7407	.7774	.8141	.8508	.8875	.9242	.9609	.9976	.0371	.0738	.1105	.1472	.1839	.2206	.2573	.2940	.3307	.3674	.4041	.4408	.4775	.5142	.5509	.5876	.6243	.6610	.6977	.7344	.7711	.8078	.8445	.8812	.9179	.9546	.9913	.0276	.0643	.1010	.1377	.1744	.2111	.2478	.2845	.3212	.3579	.3946	.4313	.4680	.5047	.5414	.5781	.6148	.6515	.6882	.7249	.7616	.7983	.8350	.8717	.9084	.9451	.9818	.0187	.0554	.0921	.1288	.1655	.2022	.2389	.2756	.3123	.3490	.3857	.4224	.4591	.4958	.5325	.5692	.6059	.6426	.6793	.7160	.7527	.7894	.8261	.8628	.8995	.9362	.9729	.0096	.0463	.0830	.1197	.1564	.1931	.2298	.2665	.3032	.3399	.3766	.4133	.4500	.4867	.5234	.5601	.5968	.6335	.6702	.7069	.7436	.7803	.8170	.8537	.8904	.9271	.9638	.0000	.0367	.0734	.1101	.1468	.1835	.2202	.2569	.2936	.3303	.3670	.4037	.4404	.4771	.5138	.5505	.5872	.6239	.6606	.6973	.7340	.7707	.8074	.8441	.8808	.9175	.9542	.9909	.0236	.0603	.0970	.1337	.1704	.2071	.2438	.2805	.3172	.3539	.3906	.4273	.4640	.5007	.5374	.5741	.6108	.6475	.6842	.7209	.7576	.7943	.8310	.8677	.9044	.9411	.9778	.0137	.0504	.0871	.1238	.1605	.1972	.2339	.2706	.3073	.3440	.3807	.4174	.4541	.4908	.5275	.5642	.6009	.6376	.6743	.7110	.7477	.7844	.8211	.8578	.8945	.9312	.9679	.0048	.0415	.0782	.1149	.1516	.1883	.2250	.2617	.2984	.3351	.3718	.4085	.4452	.4819	.5186	.5553	.5920	.6287	.6654	.7021	.7388	.7755	.8122	.8489	.8856	.9223	.9590	.9957	.0319	.0686	.1053	.1420	.1787	.2154	.2521	.2888	.3255	.3622	.3989	.4356	.4723	.5090	.5457	.5824	.6191	.6558	.6925	.7292	.7659	.8026	.8393	.8760	.9127	.9494	.9861	.0250	.0617	.0984	.1351	.1718	.2085	.2452	.2819	.3186	.3553	.3920	.4287	.4654	.5021	.5388	.5755	.6122	.6489	.6856	.7223	.7590	.7957	.8324	.8691	.9058	.9425	.9792	.0161	.0528	.0895	.1262	.1629	.1996	.2363	.2730	.3097	.3464	.3831	.4198	.4565	.4932	.5299	.5666	.6033	.6400	.6767	.7134	.7501	.7868	.8235	.8602	.8969	.9336	.9703	.0052	.0419	.0786	.1153	.1520	.1887	.2254	.2621	.2988	.3355	.3722	.4089	.4456	.4823	.5190	.5557	.5924	.6291	.6658	.7025	.7392	.7759	.8126	.8493	.8860	.9227	.9594	.9961	.0340	.0707	.1074	.1441	.1808	.2175	.2542	.2909	.3276	.3643	.4010	.4377	.4744	.5111	.5478	.5845	.6212	.6579	.6946	.7313	.7680	.8047	.8414	.8781	.9148	.9515	.9882	.0261	.0628	.1000	.1367	.1734	.2101	.2468	.2835	.3202	.3569	.3936	.4303	.4670	.5037	.5404	.5771	.6138	.6505	.6872	.7239	.7606	.7973	.8340	.8707	.9074	.9441	.9808	.0172	.0539	.0906	.1273	.1640	.2007	.2374	.2741	.3108	.3475	.3842	.4209	.4576	.4943	.5310	.5677	.6044	.6411	.6778	.7145	.7512	.7879	.8246	.8613	.8980	.9347	.9714	.0083	.0450	.0817	.1184	.1551	.1918	.2285	.2652	.3019	.3386	.3753	.4120	.4487	.4854	.5221	.5588	.5955	.6322	.6689	.7056	.7423	.7790	.8157	.8524	.8891	.9258	.9625	.9992	.0330	.0697	.1064	.1431	.1798	.2165	.2532	.2900	.3267	.3634	.4001	.4368	.4735	.5102	.5469	.5836	.6203	.6570	.6937	.7304	.7671	.8038	.8405	.8772	.9139	.9506	.9873	.0241	.0608	.0975	.1342	.1709	.2076	.2443	.2810	.3177	.3544	.3911	.4278	.4645	.5012	.5379	.5746	.6113	.6480	.6847	.7214	.7581	.7948	.8315	.8682	.9049	.9416	.9783	.0152	.0519	.0886	.1253	.1620	.1987	.2354	.2721	.3088	.3455	.3822	.4189	.4556	.4923	.5290	.5657	.6024	.6391	.6758	.7125	.7492	.7859	.8226	.8593	.8960	.9327	.9694	.0073	.0440	.0807	.1174	.1541	.1908	.2275	.2642	.3009	.3376	.3743	.4110	.4477	.4844	.5211	.5578	.5945	.6312	.6679	.7046	.7413	.7780	.8147	.8514	.8881	.9248	.9615	.9982	.0300	.0667	.1034	.1401	.1768	.2135	.2502	.2869	.3236	.3603	.3970	.4337	.4704	.5071	.5438	.5805	.6172	.6539	.6906	.7273	.7640	.8007	.8374	.8741	.9108	.9475	.9842	.0211	.0578	.0945	.1312	.1679	.2046	.2413	.2780	.3147	.3514	.3881	.4248	.4615	.4982	.5349	.5716	.6083	.6450	.6817	.7184	.7551	.7918	.8285	.8652	.9019	.9386	.9753	.0122	.0489	.0856	.1223	.1590	.1957	.2324	.2691	.3058	.3425	.3792	.4159	.4526	.4893	.5260	.5627	.5994	.6361	.6728	.7095	.7462	.7829	.8196	.8563	.8930	.9297	.9664	.0033	.0400	.0767	.1134	.1501	.1868	.2235	.2602	.2969	.3336	.3703	.4070	.4437	.4804	.5171	.5538	.5905	.6272	.6639	.7006	.7373	.7740	.8107	.8474	.8841	.9208	.9575	.9942	.0361	.0728	.1095	.1462	.1829	.2196	.2563	.2930	.3297	.3664	.4031	.4398	.4765	.5132	.5499	.5866	.6233	.6600	.6967	.7334	.7701	.8068	.843

MFPC 587(1A32F) TB 53/2 53/2 03 EXTERNAL TANK

(082104)

MACH (4) = 1.250 BETA (3) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9118 .0838

PHI	.000	.4221	-.2898
18.000	.2811	-.2682	
36.000	.1787	-.0486	
54.000	.1250	.0709	
72.000	.1857	.1231	
90.000	.1651	.0584	
108.000	.1091	.0929	
126.000	.0492	.0759	
144.000	.0230	.0483	
162.000	.0084	.0405	
180.000	-.0120	.0275	
198.000	-.0128	.0467	
216.000	.0204	.0663	
234.000	.0739	.1011	
252.000	.1091	.0929	
270.000	.2509	.0843	
288.000	.2771	.3507	
306.000	.2716	.2638	
324.000	.3187	.1074	
342.000	.3968	-.1828	
360.000	.4221	-.2898	

MACH (5) = 1.480 BETA (1) = -4.000 0 = 9.4747 PTA = 22.010 RL = 6.5300 FSA = 6.3713

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3130	.3499	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.5982	.1089	-.1489	-.1089	.0432	.3685	.6818	.4415	-.3150	-.0242	.0376	-.0203	-.1037	-.1568
18.000	.5827	.1342	-.1351	-.1268	-.0918	.0146	.4608	.6345	.3182	-.2387	-.0390	.0443	-.0101	.0628	-.0856
36.000	.6048	.1486	-.1222	-.1104	-.0696	.0813	.4928	.4958	.3182	-.1132	.0640	-.0460	.3323	-.0427	-.0321
54.000	.5774	.1423	-.1270	-.1131	-.0739	.3208	.4408	.2455	.3264	-.0111	.0422	.0099	-.0316	.0165	-.0353
72.000	.5611	.1237	-.1337	-.1280	-.0386	.5795	.5522	-.1843	.2290	.1812	-.0571	.0888	-.0730	.0232	-.0301
90.000	.5014	.0895	-.1548	-.1501	.1144	.6170	.6924	-.3514	.2290	-.1840	-.1329	-.0447	-.0676	.0431	-.0292
108.000	.4609	.0601	-.1854	-.1778	-.0583	.2823	.1491	-.4513	-.4080	-.2606	-.0808	.0326	.0012	-.0142	-.0257
126.000	.4134	.0115	-.2149	-.2057	-.1847	.0837	.0404	-.2190	-.2733	-.1557	-.0754	.0767	-.0394	.0093	-.0228
144.000	.3736	-.0258	-.2371	-.2245	-.1890	-.0113	-.0109	-.0599	-.2874	-.1685	-.0652	-.0615	-.0762	.0337	-.0301
162.000	.3340	-.0493	-.2434	-.2393	-.2140	-.1170	.0534	-.0195	-.0835	-.1202	-.0912	-.1047	-.0514	.0370	-.0349
180.000	.3095	-.0628	-.2645	-.2531	-.2110	-.1698	.0261	.1151	-.0281	-.1335	-.1509	-.1023	-.0215	-.0087	-.0293
198.000	.2935	-.0597	-.2586	-.2394	-.1961	-.0636	-.0036	.1032	.0183	-.1205	-.2036	-.0640	.0049	.0028	-.0091
216.000	.2897	-.0577	-.2624	-.2370	-.1971	-.0563	.0128	.0424	.0124	-.1481	-.1397	-.0445	-.0373	.0011	-.0180
234.000	.2937	-.0584	-.2602	-.2373	-.1936	.1062	.0722	-.1225	-.1025	-.2386	-.0500	-.0363	.0214	-.0135	-.0163
252.000	.3052	-.0445	-.2569	-.2226	-.0874	.2102	.1356	-.4305	-.3427	-.2808	-.0808	.0326	.0012	-.0142	-.0257
270.000	.3242	-.0310	-.2233	-.1972	-.0902	.5704	.6795	-.3384	-.2711	-.1123	-.0559	-.0641	-.0608	-.0608	-.0175

TABULATED SOURCE DATA, MFSC INT 567 (1A32F)

DATE 05 SEP 75

MFSC 567(1A32F) 19 53/2 53/2 03 EXTERNAL TANK (R82104)

MACH (5) = 1.480 META (2) = .000

SECTION 11 EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3489	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PM1															
108.000	.3787	.0089	-.2442	-.2254	-.1400	.2843	.1485	-.4436	-.3957	-.2156	-.0921	-.0129	-.0256	-.0260	-.0137
126.000	.3958	-.0122	-.2543	-.2396	-.1690	.0947	.0943	-.1457	-.1792	-.1837	-.0455	-.0468	-.0586	-.0431	-.0133
144.000	.3377	-.0281	-.2498	-.2416	-.1992	-.0946	.1147	-.0077	-.1559	-.1326	-.0860	-.0590	-.0251	-.0256	-.0166
162.000	.3283	-.0509	-.2518	-.2489	-.2118	-.1158	.0266	.0731	.0090	-.1007	-.1453	-.0616	.0029	.0037	-.0036
180.000	.3254	-.0619	-.2551	-.2481	-.2008	-.1603	.0355	.1380	.0698	-.1158	-.1661	-.0526	.0004	.0139	-.0131
198.000	.3283	-.0509	-.2518	-.2489	-.2118	-.1158	.0266	.0731	.0090	-.1007	-.1453	-.0616	.0029	.0037	-.0036
216.000	.3377	-.0281	-.2498	-.2416	-.1992	-.0946	.1147	-.0077	-.1559	-.1326	-.0860	-.0590	-.0251	-.0256	-.0166
234.000	.3556	-.0122	-.2543	-.2396	-.1690	.0947	.0943	-.1457	-.1792	-.1837	-.0455	-.0468	-.0586	-.0431	-.0133
252.000	.3787	.0089	-.2442	-.2254	-.1400	.2843	.1485	-.4436	-.3957	-.2156	-.0921	-.0129	-.0256	-.0260	-.0137
270.000	.4059	.0164	-.2203	-.1803	-.1334	.6243	.6688	-.3404	-.2538	-.1027	-.0300	-.0589	-.0527	-.0415	
288.000	.4567	.0375	-.2021	-.1718	-.1233	.5635	.6019	-.1273	.2962	.0208	-.1223	.0609	-.0578	-.0970	-.0415
306.000	.4961	.0682	-.1849	-.1739	-.0931	.2960	.4053	.3197	.2956	-.0950	-.0277	.0241	-.0706	-.0898	-.0411
324.000	.5353	.0972	-.1690	-.1600	-.1012	.2809	.3875	.4455	.1919	-.1485	-.0568	-.0080	-.0309	-.0852	-.0526
342.000	.5590	.1163	-.1543	-.1473	-.1004	.2907	.3557	.4749	.2948	-.2613	.0638	.0139	-.0920	-.0640	-.0684
360.000	.5823	.1180	-.1478	-.1424	-.0857	.2915	.3442	.6231	9.9990	-.2903	.0788	.0429	-.0786	-.0521	-.0758
378.000									.2948						

X/LT .9116 .9836

PM1	.2822	-.2560
18.000	.2169	-.1777
36.000	.1606	-.0211
54.000	.1218	.1148
72.000	.1483	.1825
90.000	.1793	.0074
108.000	.0932	.0829
126.000	.0356	.0662
144.000	.0025	.0503
162.000	-.0019	.0364
180.000	-.0007	.0290
198.000	-.0019	.0364
216.000	.0025	.0503
234.000	.0356	.0662
252.000	.0932	.0829
270.000	.1793	.0074
288.000	.1483	.1825
306.000	.1218	.1148
324.000	.1606	-.0211
342.000	.2169	-.1777
360.000	.2822	-.2560

TABLATED SOURCE DATA, MSFC TMT 567 (11A32F) (R82104)

MACH (5) = 1.460 BETA (3) = 4.000 Q = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 8.3713

MSFC 567(11A32F) T9 53/2 53/2 03 EXTERNAL TANK

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3818	.4378	.5095	.5732	.6408	.7085	.7762	.8439
PH1	.000	.1110	-.1453	-.1314	-.0804	.0212	.4265	.6673	.1302	-.3232	.0176	.0371	-.0682	-.1277	-.1208
18.000	.5243	.0649	-.1653	-.1478	-.1155	.1678	.3716	.4953	.1302	-.3038	.0146	-.0105	-.1184	-.1383	-.1368
36.000	.4732	.0563	-.1823	-.1817	-.1523	.2474	.3597	.3912	.1421	-.1964	-.0106	-.0563	-.1179	-.1375	-.0832
54.000	.4185	.0310	-.2237	-.2025	-.1351	.2372	.2768	.3099	.2695	-.1417	.0457	.0163	-.0987	-.1310	-.0629
72.000	.3773	-.0024	-.2298	-.1943	-.0828	.3610	.6051	.0910	.3438	-.0628	-.1701	.0221	-.0685	-.1259	-.0685
90.000	.3242	-.0310	-.2233	-.1972	-.0502	.5704	.6795	-.3364	-.3427	-.2711	-.1123	-.0559	-.0641	-.0608	-.0175
108.000	.3062	-.0445	-.2569	-.2226	-.0874	.2102	.1396	-.4305	-.1025	-.2386	-.0500	-.0320	-.0326	-.0166	-.0199
126.000	.2937	-.0584	-.2602	-.2373	-.1936	.1062	.0772	-.1225	-.1024	-.1481	-.1397	-.0445	-.0373	.0011	-.0180
144.000	.2857	-.0677	-.2624	-.2370	-.1971	-.0563	.0628	.0424	-.1024	-.1481	-.1397	-.0640	-.0499	.0028	-.0081
162.000	.2935	-.0597	-.2586	-.2354	-.1961	-.1467	-.0036	.1052	.0183	-.1205	-.2038	-.0640	-.0499	.0028	-.0081
180.000	.3065	-.0546	-.2538	-.2448	-.2004	-.1689	.0146	.1220	.0473	-.1269	-.1571	-.1150	-.0167	-.0146	-.0273
198.000	.3340	-.0493	-.2454	-.2393	-.2140	-.1170	.0534	-.0195	.0835	-.1202	-.0912	-.1047	-.0614	-.0379	-.0349
216.000	.3738	-.0256	-.2371	-.2245	-.1990	-.0113	-.0109	-.0599	-.2874	-.1665	-.0652	-.0615	-.0762	-.0537	-.0301
234.000	.4134	.0115	-.2149	-.2067	-.1647	.0837	.0404	-.2190	-.2733	-.1557	-.0754	-.0767	-.0354	-.0093	-.0228
252.000	.4608	.2601	-.1854	-.1776	-.0583	.2823	.1491	-.4513	-.4080	-.2267	-.0979	-.0350	-.0326	-.0168	-.0199
270.000	.5014	.0895	-.1546	-.1501	-.1144	.6170	.6954	-.3514	-.1840	-.1612	-.0571	-.0497	-.0576	-.0431	-.0292
288.000	.5611	.1253	-.1337	-.1243	-.0386	.5795	.5522	-.1843	.2290	.1612	-.0571	.0898	-.0730	-.0232	-.0321
306.000	.5774	.1423	-.1270	-.1131	-.0739	.3206	.4406	-.2455	.3284	-.0111	.0422	.0099	-.0316	-.0165	-.0253
324.000	.6048	.1466	-.1222	-.1104	-.0696	.0613	.4926	-.4958	.3192	-.1132	.0649	-.0460	-.0323	-.0427	-.0321
342.000	.5827	.1342	-.1351	-.1269	-.0918	.0146	.4606	.6345	.4415	-.2387	-.0390	.0506	-.0101	-.0528	-.0856
360.000	.5775	.1110	-.1453	-.1314	-.0804	.0212	.4265	.6673	9.9990	-.3232	.0176	.0371	-.0682	-.1277	-.1208
378.000									.1302						

X/LT	.9116	.8836
PH1	.000	-.2387
18.000	.2250	-.2331
36.000	.1522	-.0812
54.000	.1473	.0644
72.000	.1699	.1378
90.000	.1690	.0293
108.000	.0800	.0906
126.000	.0240	.0705
144.000	.0056	.0445
162.000	-.0003	.0367
180.000	-.0167	.0151
198.000	-.0381	.0178
216.000	-.0325	.0445
234.000	.0094	.0759
252.000	.0610	.0505
270.000	.1724	-.0558
288.000	.0718	.2906
306.000	.0571	.2149
324.000	.0683	.1210

TABULATED SOURCE DATA, MSFC TMT 287 (1A32F)

DATE 05 SEP 75

MACH (5) = 1.480 BETA (3) = 4.000 MSFC 567(1A32F) TO 53/2 53/2 03 EXTERNAL TANK (SECTION)

MACH (6) = 1.860 BETA (1) = -4.000 0 = 10.282 PTA = 29.008 RL = 7.0833 PSA = 3.8580

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.8116	.8838
PHI		
342.000	.2584	-.1018
360.000	.3410	-2.387

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3459	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
18.000	.6043	.1934	-.0323	-.0425	-.0361	-.0179	.2725	.4015	.5268	-.0811	-.0179	.0659	.1001	.0243	-.0433
36.000	.6262	.2198	-.0198	-.0259	-.0115	.0281	.1975	.4032	.4737	.0500	-.0365	.0168	.0544	.0826	.0429
54.000	.6351	.2265	-.0088	-.0130	-.0062	.0439	.1766	.2886	.2410	.0780	.0754	.0939	.0126	.0722	.0552
72.000	.6166	.2112	-.0247	-.0274	.0039	.0497	.2028	.2932	.2410	.0780	.0754	.0939	.0126	.0722	.0552
90.000	.6012	.2002	-.0425	-.0380	.0092	.2074	.7511	.0270	-.0573	.1840	.1335	.0447	.0746	.0315	.0583
108.000	.5488	.1729	-.0546	-.0504	-.0038	.4274	.9979	-.0697	-.0398	-.0754	-.0458	.0587	.0459	.0459	.0039
126.000	.5038	.1380	-.0728	-.0732	-.0384	.1746	.3581	-.1894	-.2700	-.2341	-.1831	-.0184	.0447	.0028	.2125
144.000	.4505	.0879	-.0991	-.0825	-.0829	.0137	.1382	-.0403	-.1832	-.2084	-.1148	-.0589	-.0377	.0229	-.0059
162.000	.4083	.0372	-.1181	-.1147	-.1088	-.0848	.0486	-.0017	-.1488	-.1888	-.0855	-.0572	-.0318	.0440	-.0874
180.000	.3688	.0334	-.1278	-.1309	-.1210	-.0854	-.0310	-.0034	-.0534	-.0780	-.0808	-.0535	-.0687	.0611	-.0482
198.000	.3271	.0188	-.1349	-.1384	-.1187	-.0971	-.0778	-.0013	-.0883	-.0157	-.0782	-.0823	-.0842	.0519	-.0221
216.000	.3157	.0123	-.1454	-.1412	-.1133	-.0963	-.0787	-.0289	.0274	.0047	-.0779	-.0911	-.0734	.0281	.0039
234.000	.3034	.0013	-.1489	-.1349	-.1118	-.0984	.0036	-.0243	-.0228	-.0583	-.0759	-.0834	-.0505	.0231	.0106
252.000	.3084	.0130	-.1433	-.1287	-.1106	-.0890	.0918	.0291	-.1420	-.1816	-.0958	-.0410	-.0213	.0172	.0066
270.000	.3370	.0304	-.1321	-.1200	-.0917	.0788	.3413	.1833	-.2778	-.2341	-.1446	-.0431	.0379	.2489	.0193
288.000	.3549	.0521	-.1125	-.0380	-.0752	-.0008	.7522	.0489	.1915	-.0835	-.0266	-.0332	.0505	.0098	.0433
306.000	.4448	.0988	-.0916	-.0861	-.0791	.0319	.1672	.2118	.2587	.0266	-.0564	.0277	.0372	.0031	.0337
324.000	.5009	.1202	-.0776	-.0844	-.0897	-.0387	.2473	.3305	.2435	-.0778	.0534	.0541	.0176	.0238	.0456
342.000	.5442	.1488	-.0483	-.0574	-.0483	-.0125	.2011	.3199	.2950	-.2032	.1098	.1119	.0727	.2407	.0665
360.000	.6043	.1934	-.0323	-.0425	-.0381	-.0179	.2725	.4015	.9.9990	-.2071	-.0179	.0659	.1001	.0243	-.0433
378.000									.5268						

X/LT	.8116	.8838
PHI		
18.000	.1428	-.1800
36.000	.0080	-.0008
54.000	.0358	.1891
72.000	.0815	.1898
90.000	.0817	.0082
108.000	.0122	-.0830
126.000	.0585	.0145
144.000	-.0139	.0008
162.000	-.0542	-.0073

TABLULATED SOURCE DATA, MBFC TWT 567 (1A32F)

M5FC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

1982TDM

DATE 05 SEP 75

MACH (6) = 1.000 BETA (2) = .000

SECTION (1) EXTERNAL TANK

MACH (6) = 1.000 BETA (2) = .000

SECTION (1) EXTERNAL TANK

PHI	0.00	.2034	-.1086
18.000	.2137	-.1162	
36.000	.0286	.0147	
54.000	-.0009	.1081	
72.000	-.0159	.0540	
90.000	.0312	-.0282	
108.000	.0353	.0738	
126.000	.0001	.0947	
144.000	.0095	.0465	
162.000	.0312	.0398	
180.000	.0301	.0323	
198.000	.0312	.0398	
216.000	.0095	.0485	
234.000	.0001	.0947	
252.000	.0353	.0738	
270.000	.0312	-.0282	
288.000	-.0159	.0540	
306.000	-.0009	.1081	
324.000	.0286	.0147	
342.000	.2137	-.1162	
360.000	.2034	-.1086	

MACH (6) = 1.000 BETA (3) = 4.000 Q = 10.282 PTA = 3816 PTA = 29.008 RL = 7.0933 PSA = 3.8560

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

PHI	0.00	.2034	-.1086	1.922	.0228	-.0240	.0228	.1922	.3689	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
18.000	.5877	.1756	-.0293	-.0304	-.0240	.0228	.1922	.3689	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439	.9116
36.000	5442	1468	-.0483	-.0574	-.0483	-.0125	.2011	.3199	.3199	.2950	-.2032	.1096	.1119	.0727	.0420	.0665	.0665
54.000	5005	1302	-.0778	-.0844	-.0697	-.0397	.2473	.3305	.3305	.2435	-.0775	.0534	.0544	.0174	.0238	.0456	.0456
72.000	4446	9968	-.0916	-.0981	-.0791	.0319	.1672	.2118	.2118	.2987	.0266	-.0564	.0277	.0372	.0231	.0317	.0317
90.000	3940	6621	-.1125	-.1167	-.0752	-.0008	.7522	.0489	.0489	1915	.0835	-.0225	-.0332	.0605	.0296	.0313	.0313
108.000	3370	6304	-.1321	-.1200	-.0917	.3932	.9530	.0687	.0687	-.0755	-.1446	-.0431	.0379	.0459	.0459	.0459	.0459
126.000	3084	6130	-.1433	-.1267	-.1074	.0789	.3473	.1833	.1833	-.2778	-.2385	-.0944	.0167	.0262	.0262	.0262	.0262
144.000	3219	6113	-.1458	-.1287	-.1105	-.0552	.6816	.0251	.0251	-.1420	-.1616	-.0996	.0410	.0172	.0172	.0172	.0172
162.000	3034	6013	-.1489	-.1349	-.1119	-.0554	.0035	.0243	.0243	-.0228	-.0583	-.0759	.0834	.0506	.0231	.0231	.0231
180.000	3157	6123	-.1454	-.1412	-.1133	-.0553	.0797	.0289	.0289	.0274	.0247	-.0779	.0911	.0734	.0261	.0261	.0261
198.000	3396	6228	-.1379	-.1394	-.1153	-.0752	.0752	.0289	.0289	.0274	.0247	-.0779	.0911	.0734	.0261	.0261	.0261
216.000	3592	6334	-.1279	-.1305	-.1218	-.0945	-.0510	.0054	.0054	.0534	-.0780	.0808	.0835	.0535	.0567	.0452	.0452
234.000	4263	6572	-.1181	-.1147	-.1068	-.0545	.0465	.0017	.0017	-.1465	-.1598	.0655	.0572	.0319	.0319	.0319	.0319
252.000	4555	6779	-.0891	-.0925	-.0929	.0137	.222	.0422	.0422	-.1932	-.3254	.1149	.0539	.0279	.0279	.0279	.0279
270.000	5032	7360	-.0728	-.0732	-.0734	.1746	.355	.1834	.1834	-.2700	-.2385	-.0944	.0167	.0262	.0262	.0262	.0262
288.000	5463	7729	-.0548	-.0504	-.0035	.4274	.9979	.0537	.0537	-.0399	-.0754	-.0459	.0459	.0459	.0459	.0459	.0459

ORIGINAL PAGE IS
OF HIGH QUALITY

(R82704)

MACH (6) = 1.960 BETA (3) = 4.000

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
288.000	.6012	.2002	-.0425	-.1167	.0082	.2074	.7511	.0270	-.0573	.1840	.1335	.0447	.0746	.0315	.0583
306.000	.6166	.2112	-.0247	-.0274	.0039	.0497	.2028	.2932	.2410	.0780	.0794	.0930	.0126	.0722	.0552
324.000	.6351	.2265	-.0088	-.0130	-.0082	.0459	.1766	.2886	.4737	.0500	-.0365	.0168	.0944	.0826	.0429
342.000	.6262	.2198	-.0198	-.0259	-.0115	.0281	.1975	.4032	.5268	-.0811	-.0958	.0566	.1141	.0632	.0084
360.000	.5877	.1756	-.0293	-.0364	-.0240	.0228	.1922	.3869	.9.9990	-.1945	.0372	.1005	.0924	.0194	-.0363
378.000							.2950								

X/LT .9116 .9836

PHI

.000	.2011	-.1784
18.000	.1541	-.1771
36.000	.0708	-.0809
54.000	-.0084	.0489
72.000	.0210	.0383
90.000	.0379	-.0352
108.000	.0440	.0613
126.000	.0043	.0602
144.000	.0055	.0432
162.000	.0149	.0206
180.000	-.0012	.0032
198.000	-.0210	-.0024
216.000	-.0542	-.0073
234.000	-.0135	.0008
252.000	.0440	.0613
270.000	.0122	-.0930
288.000	.0617	.0092
306.000	.0515	.1699
324.000	.0356	.1691
342.000	.0080	-.0006
360.000	.2011	-.1784

MACH (7) = 2.980 BETA (1) = -4.000 Q = 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82900

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.5704	.1756	.0205	.0287	.0325	.0235	.0284	.2069		-.0144	.0086	.0410	.0597	.0220	.0403
18.000	.5860	.2046	.0207	.0233	.0259	.0259	.0222	.2543	.4210	.0177	.0067	.0179	.0347	.0660	.0757
36.000	.5980	.2211	.0220	.0254	.0258	.0261	.0373	.2483	.3307	.1547	.0369	.0224	.0533	.0477	.0060
54.000	.5835	.2045	.0176	.0205	.0224	.0269	.1342	.1078	.1939	.1383	.0246	.0567	.0585	.0384	-.0178
72.000	.5600	.1917	.0052	.0097	.0116	.0671	.4888	.2058	.0354	-.0002	.0992	.1053	.0456	.0246	-.0350
90.000	.5044	.1622	-.0092	-.0047	.0034	.3132	.7736	.1674		-.0819	.0000	-.0144	-.0358	-.0435	-.0390

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MACH (7) = 2.960 BETA (1) = -.000

(RB2TON)

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
108.000	.4604	.1339	-.0260	-.0204	-.0118	.0146	.2755	.0258	-.1031	-.0886	-.1039	-.0949	-.0603	-.0439	-.0398
126.000	.4056	.0877	-.0413	-.0357	-.0293	-.0189	-.0181	.0727	-.0629	-.0916	-.0841	-.0808	-.0696	-.0551	-.0405
144.000	.3598	.0720	-.0562	-.0495	-.0461	-.0226	-.0174	-.0334	-.0513	-.0838	-.0838	-.0644	-.0532	-.0562	-.0350
162.000	.3210	.0500	-.0673	-.0599	-.0550	-.0256	-.0237	-.0413	-.0603	-.0528	-.0224	-.0563	-.0484	-.0518	-.0376
180.000	.2890	.0321	-.0741	-.0666	-.0536	-.0316	-.0435	-.0297	-.0088	-.0211	-.0234	-.0442	-.0498	-.0521	-.0327
198.000	.2752	.0254	-.0759	-.0681	-.0509	-.0405	-.0405	-.0267	-.0178	-.0129	-.0293	-.0450	-.0476	-.0420	-.0429
216.000	.2718	.0235	-.0748	-.0662	-.0483	-.0416	-.0327	-.0427	-.0610	-.0446	-.0413	-.0472	-.0532	-.0610	-.0405
234.000	.2688	.0239	-.0726	-.0629	-.0454	-.0424	-.0345	-.0200	-.0584	-.0867	-.0785	-.0862	-.0673	-.0420	-.0398
252.000	.2693	.0354	-.0677	-.0599	-.0405	-.0357	.1831	.0071	-.1009	-.0886	-.1039	-.0949	-.0603	-.0439	-.0358
270.000	.3098	.0477	-.0599	-.0539	-.0312	.1212	.6096	.1365		-.0498	-.0017	-.0569	-.0565	-.0144	-.0357
288.000	.3602	.0716	-.0461	-.0097	-.0263	.0045	.2465	.1943	.0951	.0198	.0977	.0056	-.0066	-.0377	-.0349
306.000	.4038	.0985	-.0330	-.0278	-.0230	.0071	.0638	.0783	.2133	.1249	.0082	.0429	-.0299	-.0040	-.0189
324.000	.4601	.1301	-.0174	-.0122	-.0096	.0056	.0481	.1700	.1320	.0071	-.0186	.0554	.0602	.0077	-.0153
342.000	.5104	.1521	-.0002	.0026	.0086	.0052	.0131	.1827	.3822	-.0338	-.0168	.0817	.0530	.0228	.0235
360.000	.5704	.1756	.0205	.0287	.0325	.0235	.0284	.2069	9.9990	-.0144	.0086	.0410	.0597	.0220	.0403
378.000									.4210						

X/LT	.9116	.9836
PHI		
.000	.0623	-.1136
18.000	.0671	.0925
36.000	.0686	.1365
54.000	.0615	.1477
72.000	.0381	.0332
90.000	.0336	-.0245
108.000	.0090	.0026
126.000	-.0133	-.0043
144.000	-.0472	-.0267
162.000	-.0454	-.0358
180.000	-.0372	-.0372
198.000	-.0230	-.0077
216.000	-.0070	.0209
234.000	.0090	.0026
252.000	.0205	-.0330
270.000	.0235	.0477
288.000	.0176	.0731
306.000	.0194	-.0140
324.000	.0287	-.0495
342.000	.0523	-.1136

MSFC 567(1A32F) T9 S3/2 S3/2 O3 EXTERNAL TANK (R82T04)

MACH (7) = 2.990 BETA (2) = .000 Q = 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82900

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2397	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.1880	.0297	.0237	.0245	.0204	.0293	.2137	.4330	-.0034	.0463	.1313	.1070	.0608	.0518
18.000	.5443	.1818	.0165	.0094	.0147	.0094	.0277	.2052	.2085	-.0266	.0284	.1070	.0809	.0578	.0369
36.000	.5259	.1750	.0095	.0006	.0014	.0032	.0504	.1958	.2949	.1027	-.0025	.0496	.0929	.0410	.0299
54.000	.4858	.1520	-.0042	-.0102	-.0083	.0176	.0861	.0813	.2949	.1427	.0050	.0395	.0526	.0295	.0332
72.000	.4510	.1317	-.0153	-.0216	-.0164	.0257	.3767	.1971	.0548	-.0007	.1096	.0533	.0011	.0321	.0500
90.000	.4021	.1051	-.0295	-.0355	-.0214	.2354	.5830	.1632	-.0757	.0011	-.0334	-.0647	-.0226	-.0111	-.0111
108.000	.3737	.0664	-.0415	-.0449	-.0322	-.0184	.2244	.0267	-.0986	-.0852	-.0953	-.0800	-.0550	.0289	.0015
126.000	.3400	.0552	-.0536	-.0580	-.0506	-.0364	-.0174	-.0256	-.0472	-.0849	-.0815	-.0726	-.0562	-.0342	-.0125
144.000	.3087	.0489	-.0594	-.0625	-.0539	-.0368	-.0140	-.0230	-.0327	-.0595	-.0610	-.0442	-.0383	-.0366	-.0330
162.000	.3046	.0466	-.0610	-.0640	-.0562	-.0390	-.0262	-.0166	-.0293	-.0096	-.0096	-.0327	-.0405	-.0427	-.0435
180.000	.3087	.0489	-.0594	-.0625	-.0539	-.0368	-.0140	-.0230	-.0120	.0127	-.0092	.0245	-.0413	-.0435	-.0416
198.000	.3244	.0552	-.0536	-.0580	-.0506	-.0364	-.0174	-.0256	-.0293	-.0096	-.0096	-.0327	-.0405	-.0427	-.0435
216.000	.3400	.0664	-.0536	-.0580	-.0506	-.0364	-.0174	-.0256	-.0472	-.0849	-.0815	-.0726	-.0562	-.0342	-.0125
234.000	.3737	.0867	-.0415	-.0449	-.0322	-.0184	.2244	.0267	-.0986	-.0852	-.0953	-.0800	-.0550	.0289	.0015
252.000	.4021	.1051	-.0295	-.0355	-.0214	.2354	.5830	.1632	.0548	-.0007	.1096	.0533	.0011	.0321	.0500
270.000	.4510	.1317	-.0153	-.0216	-.0164	.0257	.3767	.1971	.2949	.1427	.0050	.0395	.0526	.0295	.0332
306.000	.4858	.1520	-.0042	-.0102	-.0083	.0176	.0861	.0813	.2949	.1427	.0050	.0395	.0526	.0295	.0332
324.000	.5259	.1750	.0095	.0006	.0014	.0032	.0504	.1958	.2949	.1427	.0050	.0395	.0526	.0295	.0332
342.000	.5443	.1818	.0165	.0094	.0147	.0094	.0277	.2052	.4330	.0266	.0284	.1070	.0809	.0578	.0369
360.000	.5620	.1880	.0297	.0237	.0245	.0204	.0293	.2137	.4330	-.0034	.0463	.1313	.1070	.0608	.0518
378.000	.5620	.1880	.0297	.0237	.0245	.0204	.0293	.2137	.4330	-.0034	.0463	.1313	.1070	.0608	.0518

X/LT .9116 .9836

PHI	.0750	-.0584
18.000	.0310	-.0386
36.000	.0272	.0820
54.000	.0388	.0868
72.000	.0403	.0086
90.000	.0287	-.0345
108.000	.0248	-.0096
126.000	-.0092	-.0099
144.000	-.0241	.0038
162.000	-.0375	-.0245
180.000	-.0416	-.0293
198.000	-.0375	-.0245
216.000	-.0241	.0038
234.000	-.0092	-.0099
252.000	.0248	-.0096
270.000	.0287	-.0345
306.000	.0403	.0086
324.000	.0388	.0868
342.000	.0272	.0820

FABULATED SOURCE DATA, MFC TMT 567 (1A32F)

(R02T04)

DATE 03 SEP 75

MFC 567(1A32F) TB S3/2 S3/2 03 EXTERNAL TANK

MACH (7) = 8.000 BETA (2) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .0310 -.0368
350.000 .0750 -.0564

MACH (7) = 2.990 BETA (3) = 4.000 Q = 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5025	.5732	.6408	.7085	.7782	.8439
PHI	.000	.9527	.1684	.0207	.0299	.0265	.0298	.0188	.2181	-.0188	.0071	.0440	.0578	.0187	.0444
18.000	.5104	.1921	-.0062	.0026	.0086	.0082	.0131	.1627	.3822	-.0338	.0168	.0817	.0530	.0228	.0235
36.000	.4801	.1301	.0174	.0182	.0096	.0056	.0481	.1700	.320	.0071	-.0186	.0594	.0602	.0077	.0153
54.000	.4038	.0869	-.0330	-.0278	-.0230	.0071	.0838	.0787	.2133	.1248	.0082	.0429	.0259	-.0040	-.0189
72.000	.3602	.0716	.0461	.0405	.0283	.0045	.2465	.1943	.0851	.0198	.0977	.0058	.0066	.0377	.0349
90.000	.3098	.0477	.0569	.0339	.0312	.1212	.8086	.1385	.0851	-.0488	.0017	.0569	.0565	-.0144	.0357
108.000	.2893	.0354	.0677	.0599	.0405	.0357	.1831	.071	.1009	-.0890	-.1002	-.0893	.0539	-.0122	.0379
126.000	.2688	.0239	.0726	.0659	.0454	.0345	.0200	-.0200	.0584	-.0867	.0785	.0882	.0673	.0420	.0398
144.000	.2718	.0235	.0748	.0662	.0483	.0416	.0327	-.0427	.0610	-.0446	.0413	.0472	.0532	.0810	.0405
162.000	.2752	.0234	.0759	.0681	.0509	.0405	.0405	-.0267	.0178	-.0129	.0293	.0450	.0476	.0420	.0402
180.000	.2690	.0313	.0744	.0677	.0562	.0401	.0304	.0260	.0025	.0189	.0312	.0442	.0498	.0349	.0405
198.000	.3210	.0500	.0673	.0599	.0550	.0237	.0413	.0503	.0603	.0528	.0224	.0563	.0532	.0518	.0376
215.000	.3598	.0720	.0582	.0495	.0461	.0226	.0174	.0334	.0513	.0838	.0838	.0644	.0532	.0562	.0390
234.000	.4056	.0977	.0413	.357	.0293	.0189	.0181	.0727	.0629	.0916	.0841	.0808	.0696	.0651	.0405
252.000	.4604	.1339	.0260	.0204	.0118	.0146	.2755	.0258	.1031	.0819	.0000	-.0144	.0398	-.0435	.0390
270.000	.5044	.1622	.0092	.0047	.0034	.3132	.7736	.1674	.0354	-.0002	.0982	.1063	.0466	.0246	.0390
288.000	.5600	.1917	.0052	.0405	.0116	.0671	.4888	.2098	.0354	-.0002	.0982	.1063	.0466	.0246	.0390
306.000	.5935	.2095	.0176	.0205	.0269	.0269	.1342	.1078	.1939	.1383	.0246	.0567	.0586	.0384	.0178
324.000	.5980	.2211	.0220	.0254	.0268	.0261	.0373	.2483	.3307	.1547	.0369	.0224	.0533	.0477	.0000
342.000	.5660	.2048	.0207	.0233	.0259	.0259	.0222	.2543	.4210	.0177	.0067	.1179	.0347	.0560	.0757
350.000	.5527	.1684	.0207	.0259	.0285	.0296	.0188	.2181	9.9990	-.0158	.0071	.0440	.0578	.0187	.0444
378.000	.9116	.9836							3682						

ORIGINAL PAGE IS OF POOR QUALITY

MSFC 987(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK (R82T04)

MACH (7) = 2.990 BETA (3) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9118	.9836
PHI		
162.000	-.0372	-.0248
180.000	-.0506	-.0416
198.000	-.0454	-.0358
216.000	-.0472	-.0267
234.000	-.0133	-.0043
252.000	-.0105	-.0070
270.000	.0336	-.0245
288.000	.0381	.0332
306.000	.0615	.1477
324.000	.0686	.1365
342.000	.0671	.0825
360.000	.0772	-.1121

MACH (8) = 3.480 BETA (1) = -4.000 Q = 5.7167 PTA = 50.012 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3498	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.5650	.1807	.0410	.0444	.0471	.0383	.0427	.1841	.3749	.0115	.0146	.0332	.0494	.0309	.0372
18.000	.5782	.2062	.0381	.0368	.0378	.0324	.0341	.2241	.3060	.0385	.0247	.0306	.0335	.0592	.0711
36.000	.5961	.2224	.0353	.0376	.0363	.0309	.0363	.2258	.3060	.1801	.0579	.0352	.0477	.0646	.0003
54.000	.5822	.2128	.0321	.0305	.0325	.0342	.1059	.1039	.2070	.1560	.0453	.0396	.0724	.0531	-.0056
72.000	.5812	.1966	.0223	.0247	.0234	.0663	.3694	.2429	.0626	.0176	.0575	.1218	.0673	.0325	-.0162
90.000	.5017	.1668	.0064	.0102	.0132	.3079	.7402	.2280	-.0517	-.0517	.0071	.0139	-.0090	-.0293	-.0290
108.000	.4570	.1394	-.0080	-.0033	.0003	.0240	.2246	.0690	-.0676	-.0567	-.0740	-.0720	-.0592	-.0453	-.0278
126.000	.4019	.1045	-.0226	-.0185	-.0138	-.0050	-.0077	.0815	-.0324	-.0621	-.0676	-.0621	-.0520	-.0571	-.0293
144.000	.3569	.0795	-.0334	-.0280	-.0273	-.0104	-.0060	-.0151	-.0260	-.0544	-.0601	-.0577	-.0429	-.0435	-.0286
162.000	.3160	.0585	-.0445	-.0385	-.0394	-.0270	-.0263	-.0273	-.0422	-.0405	-.0182	-.0530	-.0358	-.0374	-.0278
180.000	.2832	.0416	-.0503	-.0442	-.0351	-.0290	-.0314	-.0219	-.0107	-.0175	-.0182	-.0290	-.0368	-.0371	-.0283
198.000	.2693	.0338	-.0483	-.0466	-.0341	-.0307	-.0273	-.0219	-.0070	-.0036	-.0253	-.0307	-.0344	-.0412	-.0303
216.000	.2652	.0311	-.0466	-.0445	-.0324	-.0307	-.0067	-.0303	-.0374	-.0347	-.0307	-.0300	-.0327	-.0496	-.0327
234.000	.2629	.0321	-.0439	-.0415	-.0300	-.0317	-.0232	-.0259	-.0395	-.0628	-.0594	-.0669	-.0594	-.0445	-.0327
252.000	.2650	.0432	-.0402	-.0388	-.0267	-.0240	.1433	.0355	-.0720	-.0567	-.0206	-.0219	-.0483	-.0453	-.0278
270.000	.3087	.0557	-.0327	-.0331	-.0185	.0933	.5856	.1582	-.0398	.0206	-.0219	-.0483	-.0199	-.0209	-.0209
288.000	.3659	.0795	-.0229	.0247	-.0141	.0054	.1841	.2060	.0998	.0220	.1008	.0382	.0078	.0308	-.0205
306.000	.3965	.1069	-.0094	-.0097	-.0097	.0132	.0636	.0971	.1824	.1455	.0219	.0439	.0493	.0142	-.0030
324.000	.4557	.1407	.0047	.0054	.0027	.0122	.0497	.1451	.1008	.0234	-.0070	.0484	.0717	.0284	-.0016
342.000	.5085	.1639	.0219	.0189	.0223	.0118	.0280	.1623	.3973	-.0152	.0115	.0738	.0572	.0338	.0247
360.000	.5650	.1807	.0410	.0444	.0471	.0383	.0427	.1841	9.9990	.0115	.0146	.0332	.0494	.0309	.0372
378.000									.3749						

TABLATED SOURCE DATA, MSFC TMT 987 (1A32F)

DATE 05 SEP 78

MSFC 56711A32F TO 53/2 53/2 03 EXTERNAL TANK (RBETON)

MACH (8) = 3.480 BETA (1) = -4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9118 .9836

PHI	.000
18.000	.0866
36.000	.0785
54.000	.0741
72.000	.0474
90.000	.0372
108.000	.0237
126.000	.0029
144.000	-.0114
162.000	-.0395
180.000	-.0385
198.000	-.0364
216.000	-.0388
234.000	-.0239
252.000	-.0099
270.000	.0029
288.000	.0230
306.000	.0321
324.000	.0290
342.000	.0270
360.000	.0535
	-.0760

MACH (6) = 3.480 BETA (2) = .000 Q = 5.7167 PTA = 50.012 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.1830	.0441	.0387	.0393	.0343	.0444	.1876	.0167	.0430	.1150	.1171	.0741	.0504
18.000	.5359	.1866	.0322	.0255	.0261	.0238	.0434	.1811	.4089	.0247	.0934	.0907	.0738	.0535
36.000	.5213	.1776	.0227	.0173	.0162	.0183	.0509	.1722	.1702	.0206	.0413	.0842	.0560	.0385
54.000	.4807	.1560	.0071	.0075	.0281	.0805	.0805	.1093	.2347	.1692	.0436	.0579	.0443	.0271
72.000	.4462	.1340	.0000	-.0043	-.0016	.0291	.2696	.2287	.0738	.0227	.0968	.0802	.0179	.0474
90.000	.3965	.1100	-.0117	-.0161	-.0073	.1898	.6840	.2111	-.6442	.0162	.0000	-.0330	-.0276	-.0053
108.000	.3684	.0917	-.0215	-.0246	-.0171	-.0012	.1949	.0616	-.0635	-.0547	-.0699	-.0425	-.0302	-.0117
126.000	.3359	.0717	-.0300	-.0317	-.0256	-.0083	.0284	.0284	-.0229	-.0577	-.0557	-.0475	.295	-.0148
144.000	.3199	.0620	-.0327	-.0367	-.0320	.0037	.0037	-.0164	-.0286	-.0411	-.0456	-.0432	.3300	-.0273
162.000	.3028	.0548	-.0385	-.0408	-.0337	-.0222	.0214	-.0168	-.0215	-.0077	.0010	-.0219	-.0273	-.0296
180.000	.2864	.0528	-.0379	-.0418	-.0347	-.0222	.0199	-.0127	-.0215	-.0076	-.0043	-.0104	-.0293	-.0273
198.000	.3028	.0548	-.0385	-.0408	-.0337	-.0222	.0014	-.0168	-.0215	-.0077	.0010	-.0219	-.0273	-.0286
216.000	.3199	.0620	-.0327	-.0367	-.0320	-.0208	.0057	-.0154	-.0286	-.0411	-.0456	-.0432	-.0300	-.0273
234.000	.3359	.0717	-.0300	-.0317	-.0256	-.0182	.0053	.0284	-.0229	-.0577	-.0557	-.0475	-.0300	-.0148
252.000	.3585	.0917	-.0215	-.0246	-.0171	-.0012	.1546	.0616	-.0635	-.0547	-.0699	-.0425	-.0302	-.0117
270.000	.3684	.1100	-.0117	-.0161	-.0073	.1898	.6840	.2111	-.6442	.0162	.0000	-.0330	-.0276	-.0053

ORIGINAL PAGE IS
OF POOR QUALITY

MACH (8) = 3.480 BETA (2) = .000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4462	.1340	.0000	-.0043	-.0016	.0291	.2696	.2287	.0738	.0227	.0968	.0802	.0179	.0190	.0474
288.000	.4807	.1960	.0118	.0071	.0075	.0281	.0805	.1093	.2947	.1692	.0321	.0436	.0579	.0443	.0271
305.000	.5213	.1776	.0227	.0173	.0162	.0183	.0609	.1722	.1702	.1174	.0206	.0413	.0842	.0660	.0389
324.000	.5399	.1868	.0322	.0295	.0261	.0238	.0434	.1811	.4089	-.0022	.0247	.0934	.0907	.0738	.0535
342.000	.5558	.1930	.0441	.0387	.0393	.0343	.0444	.1876	9.9990	.0167	.0430	.1150	.1171	.0741	.0504
360.000									.4089						
378.000															

X/LT .9116 .9838

PHI

.000	.0883	-.0632
18.000	.0497	-.0063
36.000	.0342	.0842
54.000	.0501	.1238
72.000	.0528	.0294
90.000	.0291	-.0205
108.000	.0244	-.0104
126.000	.0000	-.0067
144.000	-.0199	.0118
162.000	-.0314	-.0195
180.000	-.0300	-.0290
198.000	-.0314	-.0195
216.000	-.0199	.0118
234.000	.0000	-.0067
252.000	.0244	-.0104
270.000	.0291	-.0205
288.000	.0528	.0294
306.000	.0501	.1238
324.000	.0342	.0842
342.000	.0497	-.0063
360.000	.0883	-.0632

MACH (8) = 3.480 BETA (3) = 4.000 Q = 5.7167 PTA = 50.012 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.5511	.1895	.0398	.0378	.0395	.0281	.0305	.2064	.3873	-.0043	.0108	.0491	.0552	.0382	.0409
18.000	.5089	.1639	.0219	.0189	.0223	.0118	.0280	.1623	.3873	-.0152	.0115	.0730	.0572	.0338	.0247
36.000	.4557	.1407	.0047	.0054	.0027	.0122	.0497	.1451	.1008	.0234	-.0070	.0484	.0717	.0284	-.0016
54.000	.3985	.1069	-.0094	-.0097	-.0097	.0132	.0836	.0971	.1824	.1455	.0219	.0439	.0493	.0142	-.0030
72.000	.3559	.0795	-.0229	-.0219	-.0141	.0054	.1841	.2060	.0998	.0220	.1009	.0352	.0075	.0308	-.0205
90.000	.3087	.0557	-.0327	-.0331	-.0185	.0933	.5856	.1582	.0998	-.0398	.0206	-.0219	-.0483	-.0199	-.0209

MSFC 567(1A32F) T9 S3/2 S3/2 03 EXTERNAL TANK (R82T04)

MACH (8) = 3.480 BETA (3) = 4.000

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP														
X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
109.000	.2850	.0432	-.0402	-.0388	-.0267	-.0240	.1433	.0355	-.0720	-.0815	-.0763	-.0713	-.0510	-.0273	-.0273
126.000	.2629	.0321	-.0439	-.0415	-.0300	-.0317	-.0232	-.0259	-.0395	-.0528	-.0554	-.0569	-.0594	-.0445	-.0327
144.000	.2682	.0311	-.0466	-.0445	-.0324	-.0307	-.0267	-.0303	-.0374	-.0347	-.0307	-.0300	-.0327	-.0496	-.0327
162.000	.2693	.0338	-.0483	-.0468	-.0341	-.0307	-.0273	-.0219	-.0070	-.0036	-.0253	-.0307	-.0344	-.0412	-.0303
180.000	.2906	.0406	-.0459	-.0456	-.0376	-.0300	-.0314	-.0205	-.0067	-.0127	-.0270	-.0327	-.0354	-.0388	-.0297
198.000	.3160	.0585	-.0445	-.0385	-.0354	-.0270	-.0263	-.0273	-.0422	-.0405	-.0182	-.0530	-.0358	-.0374	-.0276
216.000	.3569	.0795	-.0334	-.0280	-.0273	-.0104	-.0060	-.0151	-.0280	-.0544	-.0601	-.0577	-.0429	-.0435	-.0295
234.000	.4019	.1045	-.0226	-.0185	-.0136	-.0050	-.0077	.0815	-.0324	-.0521	-.0676	-.0621	-.0520	-.0571	-.0293
252.000	.4570	.1394	-.0080	-.0033	.0003	.0240	.2246	.0690	-.0676	-.0517	-.0763	-.0713	-.0510	-.0273	-.0273
270.000	.5017	.1668	.0064	.0102	.0132	.0379	.7402	.2280	-.0626	.0176	-.0575	.1218	.0673	.0325	-.0182
288.000	.5612	.1868	.0223	.0219	.0234	.0663	.3694	.2429	.0626	.0176	-.0575	.1218	.0673	.0325	-.0182
306.000	.5822	.2128	.0321	.0305	.0325	.0342	.1069	.1039	.2070	.1560	.0453	.0398	.0724	.0531	-.0056
324.000	.5961	.2224	.0353	.0376	.0363	.0309	.0363	.2258	.3060	.1801	.0579	.0352	.0477	.0646	-.0003
342.000	.5792	.2062	.0361	.0368	.0378	.0324	.0341	.2241	.3749	.0385	.0247	.0306	.0335	.0592	.0711
360.000	.5511	.1895	.0396	.0376	.0355	.0281	.0305	.2064	9.9990	-.0043	.0108	.0491	.0552	.0382	-.0409
378.000									.3973						

X/LT .9116 .9836

PHI	.0937	-.0733
18.000	.0535	-.0219
36.000	.0270	-.0013
54.000	.0290	.0831
72.000	.0321	.0508
90.000	.0230	-.0171
108.000	.0132	-.0036
126.000	-.0009	.0213
144.000	-.0239	-.0368
162.000	-.0381	-.0384
180.000	-.0385	-.0273
198.000	-.0395	-.0256
216.000	-.0114	-.0070
234.000	.0132	-.0036
252.000	.0237	-.0215
270.000	.0372	.0267
288.000	.0474	.1350
306.000	.0741	.1326
324.000	.0785	.1245
342.000	.0937	-.0733

ORIGINAL PAGE IS OF POOR QUALITY

MSFC 567(1A32F) TO 53/2 53/2 03 US EXTERNAL TANK (R62705) (24 APR 74)

REFERENCE DATA

SREF = 6.1960 SO. IN. XWRP = 2.8490 IN.
 LREF = 5.3130 IN. YWRP = .0000 IN.
 BREF = 5.3130 IN. ZWRP = .0000 IN.
 SCALE = .0040 SCALE

PARAMETRIC DATA

BETA = .000 CONF 10 = 90.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .530

MACH (1) = .800 ALPHA (1) = -8.000 Q = 4.3384 PTA = 22.008 RL = 4.9920 PSA = 17.268

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1650	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.3316	-.0678	-.0519	.0330	.1326	.2128	.2270	-.6443	-.2847	-.1274	-.0375	.0052	.0334	
18.000	.3014	-.0779	-.0766	.0214	.1233	.1857	.2030	.1911	-.2769	-.1488	-.1176	-.0957	-.0012	.0267	
36.000	.2472	-.1178	-.0988	-.0362	.1187	.1616	.1263	.0893	-.1088	-.0873	-.0408	-.0188	-.0037	.0188	
54.000	.1748	-.1731	-.1141	-.0878	.1302	.1748	.0982	.0874	-.0441	-.0784	-.0378	-.0147	-.0043	.0188	.0348
72.000	.0888	-.2387	-.1378	.0473	.1884	.2684	.0785	.0477	-.0538	-.0832	-.0135	.0039	.0082	.0221	.0357
90.000	.0117	-.2697	-.1804	.0331	.0671	.0200	-.2932	-.7277	-.2198	-.0500	-.0245	-.0222	-.0190	-.0118	
108.000	-.0421	-.3285	-.2478	-.0822	-.0921	-.2598	-.5554	-.6320	-.4143	-.1802	-.0189	-.0200	-.0229	-.0180	-.0128
126.000	-.0886	-.3690	-.2683	-.1674	-.1248	-.2003	-.2797	-.2671	-.2124	-.1678	-.0598	-.0343	-.0230	-.0169	-.0117
144.000	-.1174	-.3903	-.1176	-.2371	-.1011	-.1273	-.1380	-.1507	-.1398	-.1167	-.0456	-.0289	-.0274	-.0251	-.0242
162.000	-.1384	-.4006	-.3252	-.2679	-.0867	-.0915	-.1012	-.1044	-.1040	-.0854	-.0419	-.0174	-.0132	-.0145	-.0179
180.000	-.1387	-.3970	-.3187	-.2637	-.0700	-.0758	-.0838	-.0905	-.0866	-.0732	-.0367	-.0149	-.0116	-.0093	-.0304
198.000	-.1384	-.4006	-.3252	-.2679	-.0867	-.0915	-.1012	-.1044	-.1040	-.0854	-.0419	-.0174	-.0132	-.0145	-.0179
216.000	-.1174	-.3903	-.3176	-.2371	-.1011	-.1273	-.1380	-.1507	-.1396	-.1167	-.0456	-.0289	-.0274	-.0251	-.0242
234.000	-.0888	-.3690	-.2683	-.1674	-.1248	-.2005	-.2787	-.2671	-.2124	-.1678	-.0598	-.0343	-.0230	-.0189	-.0117
252.000	-.0421	-.3285	-.2476	-.0929	-.0921	-.2598	-.5554	-.6320	-.4143	-.1802	-.0189	-.0200	-.0229	-.0180	-.0126
270.000	.0117	-.2697	-.1804	.0331	.0871	.0200	-.3952	-.7277	-.2198	-.0500	-.0245	-.0222	-.0190	-.0118	
288.000	.0965	-.2327	-.1378	.0473	.1884	.2684	.0765	.0477	-.0536	-.0832	-.0135	.0039	.0082	.0221	.0357
306.000	.1748	-.1731	-.1141	-.0575	.1382	.1748	.0982	.0874	-.0441	-.0724	-.0378	-.0147	-.0043	.0166	.0348
324.000	.2472	-.1178	-.0962	-.0352	.1157	.1516	.1263	.0555	-.1086	-.0873	-.0592	-.0406	-.0186	-.0037	.0168
342.000	.3014	-.0779	-.0766	.0214	.1233	.1857	.2030	.1911	-.2769	-.1488	-.1176	-.0957	-.0012	.0267	
360.000	.3316	-.0678	-.0519	.0330	.1326	.2128	.2270	.2270	-.6443	-.2847	-.1274	-.0375	.0052	.0334	
378.000	.0116	.0838							-.2769						

X/LT .0116 .0838

PHI

.000	.0780	-.4018
18.000	.0454	-.1050
36.000	.0315	.0012
54.000	-.0585	.1336
72.000	.0703	.1609
90.000	.1038	-.0707
108.000	.0269	-.0195
126.000	-.0041	.0280
144.000	-.0290	-.0218
162.000	-.0325	-.1363
180.000	-.0335	-.1610
198.000	-.0325	-.1363

TABLULATED SOURCE DATA, MIFC TMT 887 (1A387)

MIFC 887(1A387) TO 83/2 83/2 03 US EXTERNAL TANK

(R82105)

DATE 05 SEP 78

MACH (1) = .600 ALPHA (1) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE C²

X/LT	.9118	.9838
PHI		
216.000	-.0290	-.0218
234.000	-.0041	.0280
252.000	.0269	-.0195
270.000	.1038	-.0707
288.000	.0703	.1809
306.000	-.0595	.1336
324.000	.0315	.0012
342.000	.0424	-.1050
360.000	.0780	-.4018

MACH (1) = .600 ALPHA (2) = -5.000 Q = 4.3384 PTA = 22.009 RL = 4.9820 PSA = 17.256

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.2520	-.1359	-.0918	.0015	.1127	.1919	.2447	.2224	-.2966	-.6815	-.2876	-.1173	-.0250	.0205	.0431
18.000	.2275	-.1432	-.1210	-.0264	.1035	.1618	.1868	.1416	-.2966	-.1895	-.1527	-.1182	-.0459	.0102	.0422
36.000	.1983	-.1580	-.1183	-.0739	.1059	.1352	.1094	.0573	-.1137	-.0902	-.0653	-.0459	-.0165	.0050	.0327
54.000	.1545	-.1902	-.1256	-.0502	.1312	.1438	.0520	-.0047	-.0632	-.0781	-.0403	-.0183	-.0017	.0236	.0513
72.000	.1100	-.2229	-.1306	-.0833	.1937	.2334	-.0183	-.1020	-.0919	-.0674	-.0233	-.0076	.0054	.0237	.0480
90.000	.0460	-.2633	-.1535	.0931	.1513	.1251	-.2900	-.6225	-.1866	-.1866	-.0500	-.0253	-.0122	-.0028	.0115
108.000	.0090	-.2976	-.1707	-.0637	.0079	-.1449	.5030	-.4373	-.3301	-.1680	-.0367	-.0192	-.0123	-.0073	.0025
126.000	-.0200	-.3252	-.2624	-.1149	-.0592	-.1392	-.2370	-.2191	-.1549	-.1295	-.0376	-.0237	-.0177	-.0127	.0038
144.000	-.0395	-.3459	-.2840	-.2268	-.0564	-.0943	-.1110	-.1283	-.1093	-.0873	-.0375	-.0174	-.0159	-.0153	.0117
162.000	-.0591	-.3615	-.2993	-.2677	-.0583	-.0785	-.0891	-.0914	-.0957	-.0688	-.0394	-.0174	-.0159	-.0100	.0108
180.000	-.0571	-.3580	-.2931	-.2837	-.0593	-.0703	-.0765	-.0815	-.0750	-.0598	-.0368	-.0192	-.0141	-.0109	.0278
198.000	-.0581	-.3615	-.2993	-.2677	-.0583	-.0785	-.0891	-.0914	-.0857	-.0688	-.0394	-.0174	-.0159	-.0100	.0108
216.000	-.0395	-.3459	-.2840	-.2268	-.0564	-.0943	-.1110	-.1283	-.1093	-.0673	-.0375	-.0174	-.0159	-.0153	.0117
234.000	-.0200	-.3252	-.2624	-.1149	-.0592	-.1392	-.2370	-.2191	-.1549	-.1295	-.0376	-.0237	-.0177	-.0127	.0038
252.000	.0090	-.2976	-.1707	-.0637	.0079	-.1449	.5030	-.4373	-.3301	-.1680	-.0367	-.0192	-.0123	-.0073	.0025
270.000	.0460	-.2633	-.1535	.0931	.1513	.1251	-.2900	-.6225	-.1866	-.1866	-.0500	-.0253	-.0122	-.0028	.0115
288.000	.1100	-.2229	-.1306	.0833	.1937	.2334	-.0183	-.1020	-.0919	-.0674	-.0233	-.0076	.0054	.0237	.0480
306.000	.1545	-.1902	-.1256	-.0502	.1312	.1438	.0520	-.0047	-.0632	-.0781	-.0403	-.0183	-.0017	.0236	.0513
324.000	.1983	-.1580	-.1183	-.0739	.1059	.1352	.1094	.0573	-.1137	-.0902	-.0653	-.0459	-.0165	.0050	.0327
342.000	.2275	-.1432	-.1210	-.0264	.1035	.1618	.1868	.1416	-.2966	-.1895	-.1527	-.1182	-.0459	.0102	.0422
360.000	.2520	-.1359	-.0918	.0015	.1127	.1919	.2447	.2224	-.2966	-.6815	-.2876	-.1173	-.0250	.0205	.0431

X LT	.9118	.9838
000	.0910	-.3643
19 000	.0635	-.0845

TABLATED SOURCE DATA. MSFC INT 567 (1A32F)

(R82T05)

DATE 05 SEP 75

MSFC 567(1A32F) TO 53/2 53/2 03 US EXTERNAL TANK

MACH (1) = .600 ALPHA (2) = -5.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.8836
PHI		
36.000	.0517	.0064
54.000	-.0284	.1402
72.000	.0667	.1586
90.000	.1181	-.0431
108.000	.0423	.0023
126.000	.0126	.0297
144.000	-.0085	-.0200
162.000	-.0165	-.1250
180.000	-.0237	-.1560
198.000	-.0165	-.1250
216.000	-.0085	-.0200
234.000	.0126	.0297
252.000	.0423	.0023
270.000	.1181	-.0431
288.000	.0667	.1586
306.000	-.0284	.1402
324.000	.0517	.0064
342.000	.0635	-.0845
360.000	.0910	-.3643

MACH (1) = .600 ALPHA (3) = .000 Q = 4.3364 PTA = 22.009 RL = 4.9920 PSA = 17.266

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3489	.3816	.4378	.5055	.5732	.6408	.7085	.7752	.8439
PHI															
18.000	.1119	-.2400	-.1528	-.0510	.0687	.1596	.2239	.2172	-.6874	-.2683	-.1004	-.0122	.0544	.0928	.0928
36.000	.1013	-.2356	-.1786	-.0670	.0681	.1357	.1658	.1365	-.1830	-.1367	-.1037	-.0387	.0398	.0866	.0866
54.000	.0969	-.2320	-.1733	-.0768	.0678	.0948	.0768	.0382	-.1172	-.0889	-.0578	.0003	.0319	.0740	.0740
72.000	.0909	-.2344	-.1630	-.0182	.0867	.0755	-.0232	-.0540	-.0891	-.0660	-.0383	-.0119	.0091	.0434	.0890
90.000	.0978	-.2305	-.1368	.0858	.1532	.1402	-.2006	-.1639	-.1917	-.0446	-.0500	-.0173	.0101	.0409	.0822
108.000	.0742	-.2453	-.0802	.0621	.1939	.2245	-.1326	-.2782	-.0377	-.0402	-.0429	.0073	.0282	.0507	.0507
126.000	.0768	-.2531	-.1665	.0264	.0904	.0213	-.3403	-.2547	-.0695	-.0313	-.0049	.0028	.0149	.0293	.0293
144.000	.0778	-.2632	-.2078	-.0949	.0138	-.0401	-.1548	-.1554	-.0527	-.0420	-.0217	-.0147	-.0106	.0038	.0038
162.000	.0747	-.2770	-.2378	-.1966	-.0481	-.0727	-.0909	-.0737	-.0489	-.0277	-.0076	-.0025	.0024	.0096	.0096
180.000	.0726	-.2885	-.2572	-.2272	-.0512	-.0553	-.0642	-.0692	-.0626	-.0464	-.0303	-.0120	-.0025	-.0016	-.0016
198.000	.0726	-.2885	-.2572	-.2272	-.0512	-.0553	-.0642	-.0692	-.0626	-.0464	-.0303	-.0120	-.0025	-.0022	-.0022
216.000	.0747	-.2770	-.2378	-.1966	-.0481	-.0727	-.0909	-.0737	-.0489	-.0277	-.0076	-.0025	.0024	.0096	.0096
234.000	.0778	-.2632	-.2078	-.0949	.0138	-.0401	-.1548	-.1554	-.0527	-.0420	-.0217	-.0147	-.0106	.0038	.0038
252.000	.0768	-.2531	-.1665	.0264	.0904	.0213	-.3403	-.2547	-.0695	-.0313	-.0049	.0028	.0149	.0293	.0293
270.000	.0742	-.2453	-.0802	.0621	.1939	.2245	-.1326	-.2782	-.0377	-.0402	-.0429	.0073	.0282	.0507	.0507
288.000	.0978	-.2305	-.1368	.0858	.1532	.1402	-.2006	-.1639	-.1917	-.0446	-.0500	-.0173	.0101	.0409	.0822
306.000	.0909	-.2344	-.1630	-.0182	.0867	.0755	-.0232	-.0540	-.0891	-.0660	-.0383	-.0119	.0091	.0434	.0890

MSFC 567(1A32F) TO S3/2 S3/2 03 US EXTERNAL TANK (R82T05)

MACH (1) = .600 ALPHA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
324.000	.0908	-.2320	-.1733	-.0768	.0678	.0948	.0768	.0362	-.1172	-.0889	-.0578	-.0313	.0003	.0319	.0740
342.000	.1013	-.2356	-.1786	-.0670	.0661	.1357	.1636	.1365	-.2004	-.1830	-.1367	-.1037	-.0387	.0396	.0256
360.000	.1119	-.2400	-.1528	-.0510	.0687	.1586	.2239	.2172	9.9990	-.6874	-.2683	-.1004	-.0122	.0544	.0528
378.000									-.2904						

X/LT .9116 .8836

PHI

.000	.1272	-.3234
18.000	.1071	-.0716
36.000	.0594	.0387
54.000	.0281	.0066
72.000	.1194	.1571
90.000	.1368	.0175
108.000	.0691	.0371
126.000	.0195	.0601
144.000	.0119	.0289
162.000	-.0058	-.1106
180.000	-.0155	-.1438
198.000	-.0058	-.1106
216.000	.0119	.0289
234.000	.0195	.0601
252.000	.0691	.0371
270.000	.1368	.0175
288.000	.1194	.1571
306.000	.0281	.0066
324.000	.0908	.0387
342.000	.1071	-.0716
360.000	.1272	-.3234

MACH (1) = .600 ALPHA (4) = 5.000 0 = 4.3384

PTA = 22.009 RL = 4.9920 PSA = 17.266

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
000	-.0241	-.3212	-.1912	-.0788	.0583	.1450	.2182	.2293	-.6557	-.2187	-.0686	.0276	.0959	.1355	
18.000	-.0278	-.3144	-.2325	-.0752	.0520	.1173	.1658	.1484	-.1425	-.1178	-.0732	.0030	.0927	.1309	
36.000	-.0127	-.3030	-.2268	-.1044	.0368	.0576	.0947	.0355	-.1021	-.0738	-.0366	-.0076	.0294	.0672	.1182
54.000	.0184	-.2897	-.2081	-.0528	.0332	-.0063	-.0896	-.0831	-.0960	-.0623	-.0277	.0020	.0311	.0733	.1215
72.000	.0491	-.2678	-.1254	-.0048	.0750	-.0063	-.3931	-.2473	-.1937	-.0446	-.0312	-.0314	.0320	.0724	.1151
90.000	.0625	-.2513	-.1416	.1154	.1953	.2125	.1220	-.3471	-.0040	-.0019	-.0146	.0135	.0296	.0925	
108.000	.1177	-.2311	-.1400	.0407	.1618	.1623	-.1273	-.1625	-.1824	-.0054	.0015	.0171	.0258	.0353	.0557
126.000	.1584	-.2121	-.1665	-.1072	.0744	.0498	-.0534	-.0841	-.0633	-.0214	-.0063	.0101	.0161	.0237	.0381

(182705)

MSFC 567(1A32F) 19 53/2 53/2 03 U5 EXTERNAL TANK

MACH (1) = .600 ALPHA (4) = 5.000

SECTION 1: EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6409	.7085	.7762	.8439
PHI															
144.000	.1948	-.1961	-.1852	-.1411	.0218	.0151	-.0338	-.0361	-.0332	-.0196	-.0010	.0137	.0197	.0229	.0347
162.000	.2166	-.1852	-.1913	-.1427	-.0004	-.0035	-.0125	-.0184	-.0217	-.0125	-.0045	.0102	.0189	.0203	.0259
180.000	.2292	-.1757	-.1915	-.1411	.0021	-.0045	-.0082	-.167	-.0138	-.0055	.0015	.0119	.0162	.0229	.0306
198.000	.2166	-.1852	-.1913	-.1427	-.0004	-.0035	-.0125	-.0184	-.0217	-.0125	-.0045	.0102	.0189	.0203	.0259
216.000	.1948	-.1961	-.1852	-.1411	.0218	.0151	-.0338	-.0361	-.0332	-.0196	-.0010	.0137	.0197	.0229	.0347
234.000	.1584	-.2121	-.1665	-.1072	.0744	.0498	-.0534	-.0841	-.0533	-.0214	-.0063	.0101	.0161	.0237	.0381
252.000	.1177	-.2711	-.1400	.0407	.1618	.1603	-.1273	-.1625	-.1824	-.0054	.0015	.0171	.0258	.0369	.0567
270.000	.0625	-.2513	-.1416	.1154	.1953	.2125	-.1280	-.3471	-.1837	-.0446	-.0312	-.0014	.0320	.0724	.1161
288.000	.0491	-.2678	-.1244	-.0048	.0750	-.0063	-.3931	-.2473	-.0560	-.0523	-.0277	.0020	.0311	.0733	.1215
306.000	.0084	-.2897	-.2061	-.0528	.0332	-.0063	-.0896	-.0831	-.0960	-.0738	-.0366	-.0076	.0294	.0672	.1182
324.000	-.0127	-.3030	-.2266	-.1044	.0368	.0576	.0947	.0355	-.1021	-.0738	-.0366	-.0076	.0294	.0672	.1182
342.000	-.0278	-.3144	-.2325	-.0752	.0520	.1173	.1658	.1484	-.2646	-.1425	-.1178	-.0732	.0030	.0827	.1309
360.000	-.0241	-.3212	-.1912	-.0786	.0583	.1450	.2182	.2293	9.9990	-.6557	-.2187	-.0686	-.276	.0959	.1355
378.000									-.2646						

X/LT .9115 .9836

PHI	.1715	-.3025	.1498	-.0357	.1385	.0518	.0679	.1410	.1442	.1169	.1868	.0318	.109.000	.1167	.0796	.126.000	.0716	.1136	.0512	.0773	.0282	-.0814	.0191	-.1217	.198.000	.0282	-.0814	.216.000	.0512	.0773	.234.000	.0716	.1136	.252.000	.1167	.0796	.270.000	.1866	.0318	.288.000	.1442	.1169	.306.000	.0679	.1410	.324.000	.1385	.0518	.342.000	.1498	-.0357	.360.000	.1715	-.3025
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TABLATED SOURCE DATA, MSFC TWT 507 (1A32F)

198205

DATE 05 SEP 75

MSFC 967(1A32F) 19 53/2 53/2 03 US EXTERNAL TANK

MACH 11 .60C ALPHA (5) . 0.000 0 = 4.338% PTA = 22.009 RL = .995C PSA = 17.266

DEPENDENT VARIABLE CP

SECTION (1) EXTERNAL TANK

PHI	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7095	.7762	.8439
000	-.1069	-.3634	-.2089	-.0660	.0506	.1402	.2151	.2364	-.2478	-.1184	-.2021	-.0481	.0556	.1190	.1589
10 000	-.1075	-.3536	-.2074	-.0715	.0389	.1105	.1635	.1567	-.0958	-.0765	-.0232	.0076	.0476	.0866	.1170
50 000	-.0925	-.3459	-.2577	-.1091	.0085	.0330	.0351	.0305	-.1118	-.1029	-.0093	.0174	.0312	.0258	.0169
54 000	-.0651	-.3397	-.2285	-.1149	-.0315	.0633	-.1305	-.1104	-.1029	-.0958	-.0265	.0015	.0398	.0811	.0583
72 000	-.0599	-.3075	-.2081	-.0281	-.0038	-.1270	-.4828	-.3809	-.2707	-.1894	-.0897	-.0323	.0237	.0311	.0194
90 000	.0382	-.2727	-.1385	.0320	.1480	.1457	-.2051	-.5993	-.1081	-.0119	.0190	.0307	.0399	.0218	.0142
103 000	.1189	-.2233	-.1240	.0395	.1703	.2152	-.0071	-.1021	-.0870	-.0090	.0164	.0283	.0380	.0418	.0399
128 000	.1034	-.1845	-.1439	-.0942	.0880	.0968	.0109	-.0299	-.0101	-.0093	.0099	.0223	.0291	.0332	.0458
144 000	.2548	-.1484	-.1045	-.0929	.0435	.0484	.0063	.0063	.0075	.0106	.0169	.0280	.0349	.0381	.0455
162 000	.3028	-.1144	-.0813	-.0823	.0308	.0330	.0257	.0163	.0139	.0159	.0215	.0282	.0343	.0393	.0430
180 000	.3144	-.1038	-.1452	-.0813	.0274	.0313	.0258	.0181	.0175	.0166	.0168	.0280	.0342	.0381	.0455
198 000	.3076	-.1144	-.1444	-.0959	.0308	.0330	.0257	.0163	.0131	.0106	.0169	.0229	.0291	.0332	.0458
216 000	.2548	-.1494	-.1545	-.0942	.0320	.0484	.0027	.0027	.0101	-.0053	.0099	.0229	.0291	.0332	.0458
234 000	.1934	-.1845	-.1439	-.0942	.0320	.2152	-.0071	-.1021	-.1091	-.0115	.0195	.0229	.0291	.0332	.0458
252 000	.1189	-.2233	-.1240	.0355	.1703	.2152	-.0071	-.1021	-.1091	-.0115	.0195	.0229	.0291	.0332	.0458
270 000	.0382	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
288 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
306 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
324 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
342 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
360 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
378 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142

SECTION (2) EXTERNAL TANK

PHI	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7095	.7762	.8439
000	-.1069	-.3634	-.2089	-.0660	.0506	.1402	.2151	.2364	-.2478	-.1184	-.2021	-.0481	.0556	.1190	.1589
10 000	-.1075	-.3536	-.2074	-.0715	.0389	.1105	.1635	.1567	-.0958	-.0765	-.0232	.0076	.0476	.0866	.1170
50 000	-.0925	-.3459	-.2577	-.1091	.0085	.0330	.0351	.0305	-.1118	-.1029	-.0093	.0174	.0312	.0258	.0169
54 000	-.0651	-.3397	-.2285	-.1149	-.0315	.0633	-.1305	-.1104	-.1029	-.0958	-.0265	.0015	.0398	.0811	.0583
72 000	-.0599	-.3075	-.2081	-.0281	-.0038	-.1270	-.4828	-.3809	-.2707	-.1894	-.0897	-.0323	.0237	.0311	.0194
90 000	.0382	-.2727	-.1385	.0320	.1480	.1457	-.2051	-.5993	-.1081	-.0119	.0190	.0307	.0399	.0218	.0142
103 000	.1189	-.2233	-.1240	.0395	.1703	.2152	-.0071	-.1021	-.0870	-.0090	.0164	.0283	.0380	.0418	.0399
128 000	.1034	-.1845	-.1439	-.0942	.0880	.0968	.0109	-.0299	-.0101	-.0093	.0099	.0223	.0291	.0332	.0458
144 000	.2548	-.1484	-.1045	-.0929	.0435	.0484	.0063	.0063	.0075	.0106	.0169	.0280	.0349	.0381	.0455
162 000	.3028	-.1144	-.0813	-.0823	.0308	.0330	.0257	.0163	.0139	.0159	.0215	.0282	.0343	.0393	.0430
180 000	.3144	-.1038	-.1452	-.0813	.0274	.0313	.0258	.0181	.0175	.0166	.0168	.0280	.0342	.0381	.0455
198 000	.3076	-.1144	-.1444	-.0959	.0308	.0330	.0257	.0163	.0131	.0106	.0169	.0229	.0291	.0332	.0458
216 000	.2548	-.1494	-.1545	-.0942	.0320	.0484	.0027	.0027	.0101	-.0053	.0099	.0229	.0291	.0332	.0458
234 000	.1934	-.1845	-.1439	-.0942	.0320	.2152	-.0071	-.1021	-.1091	-.0115	.0195	.0229	.0291	.0332	.0458
252 000	.1189	-.2233	-.1240	.0355	.1703	.2152	-.0071	-.1021	-.1091	-.0115	.0195	.0229	.0291	.0332	.0458
270 000	.0382	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
288 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
306 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
324 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
342 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
360 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142
378 000	-.0599	-.3075	-.2081	-.0281	-.0038	.1480	.1457	-.2051	-.2707	-.1894	-.0897	.0237	.0399	.0218	.0142

ORIGINAL PAGE IS OF FOUR QUALITY

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK (R02T05)

MACH (1) = .600 ALPHA (5) = 0.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .0836

PHI
342.000 .1697 -.0153
380.000 .1893 -.2873

MACH (2) = .600 ALPHA (1) = -0.000 Q = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1954 .2203 .2347 .2707 .3139 .3499 .3818 .4378 .5055 .5732 .6408 .7095 .7782 .8439

PHI
.000 .4164 -.1130 -.1181 .0567 .2071 .3238 .3953 .3485
16.000 .3940 -.1272 -.1758 .0878 .2012 .3012 .3346 .2647
36.000 .3327 -.1638 -.1132 .0808 .2071 .2907 .2489 .1540
54.000 .2606 -.2320 -.1969 .1207 .2482 .3192 .2070 .0537
72.000 .1874 -.2980 -.1648 .1413 .3132 .4284 .2481 .0170
90.000 .0852 -.3859 -.0482 .0974 .2259 .2769 .0081 .4774
108.000 .0337 .4246 .1097 .0099 .0241 .1477 .5667 .6681
126.000 .0091 .4770 .1457 .0608 .0200 .1302 .2968 .772
144.000 .0413 .5093 .2769 .0723 .0157 .0805 .1356 .3222
162.000 .0633 .5243 .4189 .1117 .0146 .0455 .1400 .2303
180.000 .0702 .5287 .4266 .1635 .0258 .0356 .1251 .2032
198.000 .0633 .5243 .4189 .1117 .0146 .0455 .1400 .2303
216.000 .0413 .5093 .2769 .0723 .0157 .0805 .1356 .3222
234.000 .0091 .4770 .1457 .0608 .0200 .1302 .2968 .772
252.000 .0337 .4246 .1097 .0099 .0241 .1477 .5667 .6681
270.000 .0862 .3859 .0482 .0974 .2259 .2769 .0081 .4774
288.000 .1874 .2980 .1648 .1413 .3132 .4284 .2481 .0170
306.000 .2606 .2320 .1969 .1207 .2482 .3192 .2070 .0537
324.000 .3327 .1638 .1132 .0808 .2071 .2907 .2489 .1540
342.000 .3940 .1272 .1758 .0878 .2012 .3012 .3346 .2647
360.000 .4164 .1130 .1181 .0567 .2071 .3238 .3953 .3485
378.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000

X/LT .9116 .9836

PHI
.000 .1254 -.1773
18.000 .1089 .0062
36.000 .1033 .1123
54.000 .0444 .2311
72.000 .1286 .2652
90.000 .1491 .0841
108.000 .0890 .0934
126.000 .0558 .1405
144.000 .0300 .0500

TABLULATED SOURCE DATA, MSFC TNT 567 (1A32F)

(R82105)

MSFC 567(1A32F) 19 53/2 53/2 03 US EXTERNAL TANK

DATE 05 SEP 75

MACH (2) = .900 ALPHA (1) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI	
162.000	.0169
180.000	-.0142
198.000	.0169
216.000	.0300
234.000	.0558
252.000	.0890
270.000	.1491
288.000	.1286
306.000	.0444
324.000	.1033
342.000	.1089
360.000	.1254

MACH (2) = .900 ALPHA (2) = -5.000 Q = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3495 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI														
.000	.3295	-.1944	-.1618	.0341	.1868	.2974	.3737	.3341	-.9172	-.2868	-.0815	.0169	.0587	.1095
18.000	.3027	-.2032	-.1895	.0588	.1830	.2752	.3108	.2450	-.2187	-.1716	-.0903	.0022	.0668	.1167
36.000	.2743	-.2244	-.2008	.0767	.1953	.2561	.2158	.1117	-.1572	-.1372	-.1151	-.0433	.0039	.0940
54.000	.2309	-.2653	-.2691	.1993	.2426	.2876	.1467	-.0726	-.0862	-.1441	-.0911	-.0286	.0076	.0521
72.000	.1883	-.3081	-.0605	.1311	.3118	.3931	.1852	-.3055	-.1165	-.1568	-.0884	-.0338	.0133	.0535
90.000	.1246	-.3572	-.0352	.1339	.2843	.3177	.1523	-.6543	-.3032	-.0785	.0042	-.0375	.0578	.0853
108.000	.0901	-.3895	-.0777	.0503	.1147	.0183	-.3215	-.7010	-.4095	-.3088	-.0681	.0296	.0487	.0539
126.000	.0603	-.4273	-.1369	-.0210	.0518	-.0330	-.2450	-.5177	-.2456	-.2741	-.0766	.0017	.0239	.0497
144.000	.0348	-.4500	-.3143	-.0451	.0262	-.0304	-.1104	-.3455	-.1693	-.1871	-.0591	-.0030	.0160	.0258
162.000	.0207	-.4594	-.4519	-.0998	.0304	-.0235	-.1256	-.2460	-.1484	-.1420	-.0480	.0068	.0201	.0374
180.000	.0170	-.4599	-.4740	-.1756	.0399	-.0204	-.1141	-.2224	-.1442	-.1294	-.0470	.0031	.0238	.0356
198.000	.0207	-.4594	-.4519	-.0998	.0304	-.0235	-.1256	-.2460	-.1484	-.1420	-.0480	.0068	.0201	.0305
216.000	.0348	-.4500	-.3143	-.0451	.0262	-.0304	-.1104	-.3455	-.1693	-.1871	-.0591	-.0030	.0160	.0258
234.000	.0503	-.4233	-.1369	-.0210	.0518	-.0330	-.2450	-.5177	-.2456	-.2741	-.0766	.0017	.0239	.0328
252.000	.0901	-.3895	-.0777	.0503	.1147	.0183	-.3215	-.7010	-.4095	-.3088	-.0681	.0296	.0487	.0539
270.000	.1246	-.3572	-.0352	.1339	.2843	.3177	.1523	-.6543	-.3032	-.0785	.0042	-.0375	.0578	.0853
288.000	.1993	-.3081	-.0605	.1311	.3118	.3931	.1852	-.3055	-.1165	-.1568	-.0884	-.0338	.0133	.0535
306.000	.2309	-.2653	-.2691	.1993	.2426	.2876	.1467	-.0726	-.0862	-.1441	-.0911	-.0286	.0076	.0521
324.000	.2743	-.2244	-.2008	.0767	.1953	.2561	.2158	.1117	-.1572	-.1372	-.1151	-.0433	.0039	.0940
342.000	.3027	-.2032	-.1895	.0588	.1830	.2752	.3108	.2450	-.2187	-.1716	-.0903	.0022	.0668	.1167
360.000	.3295	-.1944	-.1618	.0341	.1868	.2974	.3737	.3341	-.9172	-.2868	-.0815	.0169	.0587	.1095

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(R82105)

MSFC 567(1A32F) 19 53/2 53/2 03 US EXTERNAL TANK

MACH (2) = .900 ALPHA (2) = -5.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.9836	
PHI	.000	.1402	-.1552
18.000	.1295	.0162	
36.000	.1204	.1121	
54.000	.0722	.2161	
72.000	.1455	.2461	
90.000	.1695	.1112	
108.000	.1152	.1142	
126.000	.0795	.1501	
144.000	.0500	.0733	
162.000	.0394	-.0593	
180.000	.0352	-.0883	
198.000	.0384	-.0593	
216.000	.0500	.0733	
234.000	.0755	.1501	
252.000	.1152	.142	
270.000	.1695	.1112	
288.000	.1455	.2461	
306.000	.0722	.2161	
324.000	.1204	.1121	
342.000	.1295	.0162	
360.000	.1402	-.1552	

MACH (2) = .900 ALPHA (3) = .000 Q = 7.3718 PTA = 22.012 RL = 6.2720 FSA = 13.023

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.1832	-.3292	-.2213	.0050	.1504	.2538	.3341	.3054	-.9335	-.2918	-.0688	.0448	.1053	.1503
18.000	.1675	.3310	-.1762	.1762	.0157	.1467	.2308	.2897	.2050	-.2573	-.1774	-.0933	.0217	.0972	.1458
36.000	.1704	.3245	-.3200	.1141	.1697	.2105	.1630	.0364	.1880	-.1136	-.1091	-.0396	.0093	.0644	.1282
54.000	.1587	.3383	-.2699	.1371	.2023	.2112	.0456	-.3093	-.1293	-.1059	-.0795	-.0186	.0285	.0808	.1377
72.000	.1617	.3353	-.0546	.1305	.2696	.3018	.0397	-.8077	-.1581	-.0818	-.0727	-.0316	.0215	.0760	.1346
90.000	.1444	.3475	-.0165	.1528	.3213	.4083	.3094	-.8079	-.2270	-.0933	-.0258	.0024	.0182	.0643	.1039
108.000	.1504	.3443	-.0525	.0955	.2209	.2608	-.0648	-.9339	-.2270	-.0679	-.0217	.0044	.0208	.0401	.0670
126.000	.1532	.3501	-.1600	.0224	.1298	.0835	-.1194	-.5623	-.1281	-.0679	-.0217	.0044	.0208	.0387	.0587
144.000	.1504	.3614	-.4099	.0234	.0696	.0351	-.0597	-.3158	-.1034	-.0628	-.0184	.0060	.0209	.0309	.0487
162.000	.1566	.3549	-.4058	-.1835	.0567	.0134	-.0786	-.2138	-.1077	-.0507	-.0258	-.0023	.0120	.0298	.0287
180.000	.1550	.3665	-.4153	-.2650	.0552	.0041	-.0794	-.2003	-.1077	-.0505	-.0242	-.0033	.0115	.0208	.0487
198.000	.1566	.3549	-.4058	-.1835	.0567	.0134	-.0786	-.2138	-.1077	-.0507	-.0258	-.0023	.0120	.0308	.0487
216.000	.1504	.3614	-.4099	.0234	.0696	.0351	-.0597	-.3158	-.1034	-.0628	-.0184	.0060	.0209	.0387	.0587
234.000	.1532	.3501	-.1600	.0224	.1298	.0835	-.1194	-.5623	-.1281	-.0679	-.0217	.0044	.0209	.0401	.0670
252.000	.1504	.3443	-.0525	.0955	.2209	.2608	-.0648	-.9339	-.2270	-.0679	-.0217	.0044	.0209	.0503	.0773
270.000	.1444	.3475	-.0165	.1528	.3213	.4083	.3094	-.8079	-.2270	-.0933	-.0258	.0024	.0182	.0543	.1039

(R02T05)

DATE 25 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK

MACH (2) = .900 ALPHA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.1617	-.3353	-.0546	.1305	.2696	.3018	.0397	-.8077	-.1581	-.0818	-.0727	-.0316	.0215	.0760	.1346
305.000	.1587	-.3383	-.2699	.1371	.2023	.2112	.0456	-.3093	-.1293	-.1059	-.0795	-.0186	.0265	.0808	.1377
324.000	.1704	-.3245	-.3200	.1141	.1697	.2105	.1630	.0364	-.1880	-.1136	-.1091	-.0396	.0093	.0644	.1282
342.000	.1675	-.3310	-.1762	.0157	.1467	.2306	.2697	.2050	-.2573	-.2217	-.1774	-.0933	.0207	.0972	.1458
350.000	.1632	-.3292	-.2213	.0050	.1504	.2536	.3341	.3054	9.9990	-.9335	-.2918	-.0688	.0448	.1053	.1503
378.000									-.2573						

X/LT .9116 .9836

PHI

.000	.1837	-.1167
18.000	.1692	.0540
36.000	.1694	.1471
54.000	.1214	.2452
72.000	.1911	.2731
90.000	.1876	.1335
108.000	.1327	.1445
126.000	.1023	.1820
144.000	.0803	.1258
162.000	.0629	-.0154
180.000	.0546	-.0476
198.000	.0629	-.0154
216.000	.0803	.1258
234.000	.1023	.1820
252.000	.1327	.1445
270.000	.1876	.1336
288.000	.1911	.2731
306.000	.1214	.2452
324.000	.1694	.1471
342.000	.1692	.0540
360.000	.1837	-.1167

MACH (2) = .900 ALPHA (4) = 5.000 Q = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.0432	-.4490	-.2843	-.0362	.1426	.2301	.3072	.2995	-.9280	-.2713	-.0687	.0678	.1417	.1908	
18.000	.0380	-.4447	-.2462	-.0054	.1364	.2036	.2475	.2044	-.2566	-.1835	-.1551	-.0803	.0365	.1301	
36.000	.0521	-.4353	-.3166	.0175	.1354	.1535	.1091	.0229	-.1881	-.1110	-.0829	-.0214	.0332	.0903	
54.000	.0740	-.4191	-.1518	.0395	.1356	.1099	-.0548	-.2569	-.1628	-.0908	-.0558	-.0021	.0526	.1051	
72.000	.1172	-.3893	-.0583	.0845	.1977	.1501	-.1616	-.6533	-.2049	-.0772	-.0506	-.0089	.0520	.1112	
90.000	.1351	-.3505	-.0410	.1448	.3157	.3895	.2968	-.6803	-.0696	-.0584	-.0213	.0308	.0891	.1473	

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TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO S3/2 S3/2 03 US EXTERNAL TANK (R82105)

DATE 05 SEP 75

MACH (2) = .900 ALPHA (8) = 0.000 0 = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
18.000	-.0450	-.5234	-.2500	-.0628	.1283	.2170	.2974	.3054	-.2544	-.1653	-.1311	-.0590	.0484	.1590	.2031
35.000	-.0470	-.5148	-.2742	.0009	.1180	.1890	.2423	.2169	-.1802	-.1443	-.0601	-.0047	.0475	.1432	.1955
54.000	-.0268	-.4970	-.2872	.0310	.0931	.1170	.1023	.0597	-.1887	-.1544	-.0322	.0119	.0662	.1207	.1747
72.000	.0069	-.4684	-.1523	-.0122	.0707	.0331	-.0933	-.1713	-.1887	-.1544	-.0322	.0119	.0662	.1207	.1747
90.000	.0579	-.4287	-.0793	.0480	.1076	.0082	-.3513	-.5862	-.3339	-.1803	-.0249	.0087	.0615	.1197	.1794
108.000	.1083	-.3773	-.1022	.1273	.2661	.3135	.1962	-.6236	-.0814	-.0500	.0026	.0269	.0422	.0754	.1099
126.000	.2010	-.3004	-.1650	.1098	.2801	.3628	.1901	-.6548	-.0359	-.0364	.0030	.0197	.0375	.0619	.0948
144.000	.2793	-.2463	-.2411	.0366	.1832	.2135	.0585	-.3205	-.0364	-.0281	.0030	.0187	.0350	.0552	.0872
162.000	.3457	-.1908	-.3346	-.0090	.1123	.1301	.0417	-.1147	-.0364	-.0218	.0000	.0187	.0407	.0568	.0819
180.000	.4023	-.1358	-.3202	-.2505	.0648	.0932	.0266	-.0374	-.0266	-.0087	.0078	.0248	.0396	.0598	.0873
198.000	.4585	-.0792	-.3202	-.2505	.0648	.0932	.0266	-.0374	-.0266	-.0087	.0078	.0248	.0396	.0598	.0873
216.000	.5147	-.0248	-.3248	-.0060	.1183	.1301	.0417	-.1147	-.0364	-.0218	.0000	.0187	.0407	.0568	.0819
234.000	.5703	-.0483	-.2411	.0366	.1832	.2135	.0585	-.3205	-.0364	-.0281	.0030	.0187	.0350	.0552	.0872
252.000	.6260	-.0000	-.1680	.1098	.2681	.3428	.1901	-.6548	-.0364	-.0281	.0030	.0187	.0375	.0619	.0948
270.000	.6819	-.0287	-.0793	.0480	.1076	.0082	-.3513	-.5862	-.0814	-.0500	.0026	.0269	.0422	.0754	.1099
288.000	.7379	-.0469	-.1523	.0122	.0707	.0331	-.0933	-.1713	-.1887	-.1544	-.0322	.0119	.0662	.1207	.1747
306.000	.7938	-.0650	-.2872	.0310	.0931	.1170	.1023	.0597	-.1887	-.1544	-.0322	.0119	.0662	.1207	.1747
324.000	.8497	-.0831	-.2742	.0009	.1180	.1890	.2423	.2169	-.1802	-.1443	-.0601	-.0047	.0475	.1432	.1955
342.000	.9056	-.0628	-.2500	-.0628	.1283	.2170	.2974	.3054	-.2544	-.1653	-.1311	-.0590	.0484	.1590	.2031
360.000	.9615	-.0411	-.2500	-.0628	.1283	.2170	.2974	.3054	-.2544	-.1653	-.1311	-.0590	.0484	.1590	.2031
378.000	.000	.9116	.9836												

X/LT

PHI

.000	.2364	-.1240
18.000	.2237	.0777
36.000	.2103	.1574
54.000	.1679	.2083
72.000	.2087	.1822
90.000	.2388	.1438
108.000	.1720	.1938
126.000	.1439	.2370
144.000	.1259	.2119
162.000	.1070	.0705
180.000	.1001	.0312
198.000	.1070	.0705
216.000	.1259	.2119
234.000	.1439	.2370
252.000	.1720	.1938
270.000	.2395	.1435
288.000	.2087	.1822
306.000	.1679	.2083
324.000	.2103	.1574

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F) (R82T05)

MACH (2) = .900 ALPHA (5) = 8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI

342.000 .2237 .0777
 350.000 .2354 -.1240

MACH (3) = 1.050 ALPHA (1) = -8.000 Q = 8.4402 PTA = 22.012 RL = 6.5720 PSA = 10.992

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.5652	.0567	-.1870	.1392	.3843	.4930	.5632	.5168	-.5686	-.1988	-.1658	-.0227	.1510	.2604	
18.000	.5349	.0425	-.1868	.1418	.3805	.4722	.5078	.4437	.0423	-.1081	-.1722	.0039	.1592	.2557	
36.000	.4862	.0066	-.2460	.1677	.3813	.4516	.4261	.3364	.0784	-.2784	-.2088	.0263	.1674	.2551	
54.000	.4236	-.0486	-.2052	.1374	.4250	.4884	.3881	.2327	.1403	-.2043	-.2585	-.1761	.0368	.1719	
72.000	.3589	-.1067	-.2058	.1943	.4784	.5872	.4382	.1540	.1026	-.1734	-.1983	-.1417	.0394	.1734	
90.000	.2742	-.1773	-.2346	.1671	.4028	.3720	.1921	-.4775	-.3660	-.1501	-.0599	.0468	.1499	.2097	
108.000	.2231	-.2136	-.2218	.0327	.2044	.0421	-.3329	-.5766	-.5070	-.3237	-.0809	-.0316	.0430	.1309	
126.000	.1814	-.2632	-.3228	-.0328	.1446	.0623	-.1222	-.3240	-.3297	-.1403	-.0472	.0409	.1232	.1747	
144.000	.1547	-.2848	-.3367	-.1083	.0954	.1239	.0439	-.1449	-.1814	-.2921	-.1094	-.0439	.0276	.1070	
162.000	.1341	-.3005	-.3300	-.2039	.0719	.1558	.0833	-.0340	-.1703	-.0989	-.0221	.0414	.1043	.1494	
180.000	.1309	-.2993	-.2953	-.1888	.0361	.1650	.1132	.0020	-.1718	-.2609	-.0974	-.0175	.0440	.1454	
198.000	.1341	-.3005	-.3300	-.2039	.0719	.1558	.0833	-.0340	-.1703	-.0989	-.0221	.0414	.1043	.1494	
216.000	.1547	-.2848	-.3367	-.1083	.0954	.1239	.0439	-.1449	-.1814	-.2921	-.1094	-.0439	.0276	.1070	
234.000	.1814	-.2632	-.3228	-.0328	.1446	.0623	-.1222	-.3240	-.3297	-.1403	-.0472	.0409	.1232	.1747	
252.000	.2231	-.2136	-.2218	.0327	.2044	.0421	-.3329	-.5766	-.5070	-.3237	-.0809	-.0316	.0430	.1309	
270.000	.2742	-.1773	-.2346	.1671	.4028	.3720	.1921	-.4775	-.3660	-.1501	-.0599	.0468	.1499	.2097	
288.000	.3589	-.1067	-.2058	.1943	.4784	.5872	.4382	.1540	.1026	-.1734	-.1983	-.1417	.0394	.1734	
306.000	.4236	-.0486	-.2052	.1374	.4250	.4884	.3881	.2327	.1403	-.2043	-.2585	-.1761	.0368	.1719	
324.000	.4862	.0066	-.2460	.1677	.3813	.4516	.4261	.3364	.0784	-.2784	-.2088	.0263	.1674	.2551	
342.000	.5349	.0425	-.1868	.1418	.3805	.4722	.5078	.4437	.0423	-.1081	-.1722	.0039	.1592	.2557	
360.000	.5652	.0567	-.1870	.1392	.3843	.4930	.5632	.5168	-.5686	-.1988	-.1658	-.0227	.1510	.2604	
378.000									.0423						

X/LT .9116 .9836

PHI

.000 .3816 -.0547
 18.000 .3502 .2729
 36.000 .3287 .3863
 54.000 .2687 .4319
 72.000 .3116 .4549
 90.000 .2999 .2513
 108.000 .2357 .2594
 126.000 .2099 .3081
 144.000 .1849 .2408

MSFC 567(1A32F) T8 S3/2 S3/2 O3 US EXTERNAL TANK (R82105)

MACH (3) = 1.050 ALPHA (1) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.9836											PTA	RL	PSA		
PHI:																	
162.000	.1685	.0846	.2707	.2347	.2203	.2416	-.0623	.3576	.4649	.5329	.4911	.0263	-.4445	-.1751	-.0536	.1475	.2711
160.000	.1650	.0619	.3600	.3787	.2681	-.0164	.3600	.4464	.4784	.4082	.4082	.0859	-.2861	-.1461	-.0310	.1504	.2682
198.000	.1685	.0846	.4319	.4883	.2617	.0483	.4186	.4583	.3380	.2872	.2872	.0859	-.2861	-.1644	-.0041	.1610	.2614
216.000	.1849	.2408	.4835	.5573	.2231	.1259	.4835	.5573	.3910	.2822	.2822	.1172	-.2328	-.2009	.0036	.1650	.2586
234.000	.2099	.3081	.4563	.4563	.1806	.0803	.4563	.4563	.3276	.2452	.2452	.0743	-.2171	-.1617	-.0955	.1591	.2510
252.000	.2357	.2594	.2905	.2905	.2634	.0199	.2905	.2905	.2106	.1672	.1672	.0859	-.2861	-.1644	-.0041	.1610	.2614
270.000	.2999	.2513	.1936	.1936	.4029	-.0394	.1936	.1672	-.0156	-.4016	-.4016	.1863	-.2783	-.0890	.0077	.1020	.1711
288.000	.3116	.4549	.1406	.1406	.3793	-.2049	.1406	.1727	.0843	-.1369	-.1369	.0843	-.2602	-.0301	.0018	.0904	.1518
306.000	.2687	.4319	.0800	.0800	.3636	-.2304	.0800	.1770	.1078	-.0179	-.0179	.1821	-.2366	-.0589	.0180	.1018	.1562
324.000	.3287	.3863	.0224	.0224	.3356	-.2301	.0224	.1714	.1297	.0135	.0135	.1928	-.2213	-.0557	.0118	.1007	.1429
342.000	.3502	.2729	.0800	.0800	.3236	-.2304	.0800	.1770	.1078	-.0179	-.0179	.1821	-.2366	-.0589	.0180	.1018	.1562
360.000	.3816	-.0547	.1406	.1406	.3793	-.2049	.1406	.1727	.0843	-.1369	-.1369	.0843	-.2602	-.0301	.0018	.0904	.1518

MACH (3) = 1.050 ALPHA (2) = -5.000 Q = 8.402 PTA = 22.012 RL = 6.5720 PSA = 10.982

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI:															
.000	.4789	-.0278	-.2416	-.0623	.3576	.4649	.5329	.4911	.0263	-.4445	-.1751	-.0536	.1475	.2711	
18.000	.4568	-.0365	-.3108	-.0164	.3600	.4464	.4784	.4082	.0859	-.2861	-.1461	-.0310	.1504	.2682	
36.000	.4324	-.0506	-.2681	.0056	.3787	.4319	.3947	.2872	.0859	-.2861	-.1644	-.0041	.1610	.2614	
54.000	.3927	-.0872	-.2617	.0483	.4186	.4583	.3380	.2872	.0859	-.2861	-.1644	-.0041	.1610	.2614	
72.000	.3569	-.1205	-.2231	.1259	.4835	.5573	.3910	.2822	.1172	-.2328	-.2009	.0036	.1650	.2586	
90.000	.3007	-.1634	-.1806	.0803	.4563	.4563	.3276	.2452	.0743	-.2171	-.1617	-.0955	.1591	.2510	
108.000	.2724	-.2193	-.1862	.0199	.4295	.4295	.2106	.1672	.0859	-.2861	-.1644	-.0041	.1610	.2614	
126.000	.2411	-.2378	-.1406	-.0394	.3936	.3936	.1672	-.0156	-.4016	-.4016	-.4016	.0077	.1020	.1711	
144.000	.2220	-.2458	-.0800	-.2049	.3600	.3600	.1727	.0843	-.1369	-.1369	-.1369	.0018	.0904	.1518	
162.000	.2112	-.2482	-.3636	-.2304	.3200	.3200	.1770	.1078	-.0179	-.0179	-.0179	.0180	.1018	.1562	
180.000	.2112	-.2458	-.3236	-.2304	.2800	.2800	.1770	.1078	-.0179	-.0179	-.0179	.0180	.1018	.1562	
198.000	.2220	-.2378	-.3793	-.2049	.2406	.2406	.1727	.0843	-.1369	-.1369	-.1369	.0018	.0904	.1518	
216.000	.2411	-.2193	-.4029	-.0394	.2006	.2006	.1672	-.0156	-.4016	-.4016	-.4016	.0077	.1020	.1711	
234.000	.2724	-.1862	-.2634	.0199	.2005	.2005	.2106	-.0876	-.6454	-.6454	-.6454	.0077	.1020	.1711	
252.000	.3007	-.1634	-.1806	.0803	.1663	.1663	.3276	.2452	.0743	-.2171	-.1617	-.0955	.1591	.2510	
288.000	.3569	-.1205	-.2231	.1259	.1835	.1835	.3810	.2820	.0743	-.2171	-.1617	-.0955	.1591	.2510	
306.000	.3927	-.0872	-.2617	.0483	.1866	.1866	.4583	.3380	.1172	-.2328	-.2009	.0036	.1650	.2586	
324.000	.4324	-.0506	-.2681	.0056	.3787	.3787	.4319	.3947	.0859	-.2861	-.1644	-.0041	.1610	.2614	
342.000	.4568	-.0365	-.3108	-.0164	.3600	.3600	.4464	.4784	.0859	-.2861	-.1644	-.0041	.1610	.2614	
360.000	.4789	-.0278	-.2416	-.0623	.3576	.3576	.4649	.5329	.4911	.0263	-.4445	-.1751	-.0536	.1475	

.0263

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK (R82T05)

MACH (3) = 1.050 ALPHA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

M/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
288.000	.3293	-.1458	-.3336	.0532	.4184	.4748	.2463	-.5808	-.0165	-.1660	-.0150	-.0945	.0178	.1715	.2708
305.000	.3284	-.1485	-.2902	-.0602	.3569	.3852	.2427	-.0787	.0350	-.2830	-.0201	-.1178	.0369	.1858	.2823
324.000	.3314	-.1441	-.3235	-.1000	.3136	.3726	.3290	.2008	-.0037	-.3604	-.0196	-.1396	.0238	.1732	.2740
342.000	.3337	-.1443	-.4020	-.0625	.2977	.3855	.4232	.3534	-.0321	-.4910	-.0541	-.1651	-.0087	.1703	.2865
350.000	.3447	-.1484	-.2648	-.1281	.2091	.3988	.4703	.4482	9.6990	-.7369	-.2300	-.2047	-.0120	.1746	.2919
378.000									-.0321						

M/LT .9116 .9836

PHI

.000	.3593	.0090
18.000	.3427	.2379
35.000	.3381	.3317
52.000	.2979	.4103
69.000	.3392	.4284
86.000	.3175	.2823
103.000	.2712	.2809
120.000	.2472	.3230
137.000	.2305	.2828
154.000	.2144	.1542
171.000	.2074	.1270
188.000	.2144	.1542
205.000	.2305	.2828
222.000	.2472	.3230
239.000	.2712	.2809
256.000	.2979	.4284
273.000	.3175	.2823
290.000	.3392	.4284
307.000	.3427	.2379
324.000	.3381	.3317
341.000	.3427	.2379
358.000	.3593	.0090

MACH (3) = 1.050 ALPHA (4) = 5.000 0 = 8.4402 PTA = 22.012 RL = 6.5720 PSA = 10.992

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

M/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.2178	-.2504	-.2138	-.1137	.0820	.2594	.3706	.4026	-.0871	-.3617	-.0275	-.0513	.0623	.2225	.3070
8.000	.2096	-.2501	-.3275	-.1101	.1213	.2851	.3453	.3052	-.0871	-.3617	-.0275	-.0513	.0623	.2225	.3070
16.000	.2229	-.2378	-.3434	-.1833	.1872	.2738	.2468	.1380	-.0598	-.2640	-.0034	-.0239	.0972	.1954	.2822
24.000	.2450	-.2203	-.4000	-.1148	.2330	.2630	.1104	-.2223	-.0581	-.1250	-.0139	-.0092	.0369	.2119	.2822
32.000	.2866	-.1921	-.4614	-.0355	.3167	.3061	.0248	-.6220	-.1819	-.0627	.0233	.0221	.0545	.2027	.2822
40.000	.2977	-.1720	-.4648	-.0023	.4414	.2235	.4414	-.6042	-.1010	.0059	.0121	.0675	.1622	.2572	.2822

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TABLULATED SOURCE DATA, MSFC TMT 567 (11A32F)

MSFC 567(11A32F) T9 53/2 53/2 03 US EXTERNAL TANK

(182T05)

DATE 05 SEP 75

MACH (3) = 1.020 ALPHA (4) = 5.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3498	.3818	.4378	.5055	.5732	.6408	.7065	.7762	.8439
PHI															
108.000	.3549	-.1311	-.4258	-.0543	.3591	.4929	.3173	-.5555	-.0918	-.0660	-.0160	.0158	.0547	.1515	.2200
126.000	.4029	-.0935	-.4289	-.2896	.2878	.3670	.2123	-.1414	-.0343	-.0811	.0069	.0360	.0508	.1426	.2061
144.000	.4325	-.0696	-.4144	-.3462	.2496	.3005	.1755	.0264	-.1260	-.1085	.0173	.0477	.0662	.1452	.2032
162.000	.4549	-.0491	-.3975	-.3293	.1931	.2651	.1901	.0804	-.1553	-.1031	.0201	.0491	.0639	.1415	.1948
180.000	.4561	-.0362	-.3658	-.3004	.1448	.2588	.1898	.0926	-.1209	-.0897	.0210	.0477	.0611	.1410	.1723
199.000	.4549	-.0491	-.3975	-.3293	.1931	.2651	.1901	.0804	-.1553	-.1031	.0201	.0491	.0639	.1415	.1948
216.000	.4325	-.0696	-.4144	-.3462	.2496	.3005	.1755	.0264	-.1260	-.1085	.0173	.0477	.0662	.1452	.2032
234.000	.4029	-.0935	-.4289	-.2896	.2878	.3670	.2123	-.1414	-.0343	-.0811	.0069	.0360	.0508	.1426	.2061
252.000	.3549	-.1311	-.4258	-.0543	.3591	.4929	.3173	-.5555	-.0918	-.0660	-.0160	.0158	.0547	.1515	.2200
270.000	.2977	-.1720	-.4848	-.0023	.4414	.5235	.4414	-.6042	-.0818	-.0650	.0059	.0121	.0575	.1622	.2672
288.000	.2808	-.1921	-.4814	-.0399	.3187	.3881	.0248	-.6220	-.1818	-.0827	.0233	.0021	.0345	.2037	.2879
306.000	.2450	-.2203	-.4000	-.1148	.2030	.2630	.1104	-.2223	-.0961	-.1250	.0109	-.0092	.0568	.2119	.2889
324.000	.2229	-.2378	-.3434	-.1833	.1872	.2738	.2488	.1380	-.0558	-.2240	-.0004	-.0238	.0872	.1954	.2532
342.000	.2096	-.2501	-.3275	-.1101	.1213	.2851	.3453	.3052	-.0871	-.3617	-.0275	-.0513	.0523	.2082	.3025
360.000	.2178	-.2504	-.2138	-.1137	.0820	.2594	.3706	.4026	9.9990	-.6347	-.1740	-.0732	.0733	.2226	.3070
378.000															

X/LT .9116 .9836

PHI	
.000	.3489 .0016
18.000	.3431 .2169
36.000	.3373 .3058
54.000	.3118 .3463
72.000	.5361 .3320
90.000	.3506 .3181
108.000	.2971 .3318
126.000	.2832 .3258
144.000	.2773 .3188
162.000	.2708 .3018
180.000	.2700 .1738
198.000	.2388 .2016
216.000	.2573 .3129
234.000	.2662 .3558
252.000	.2951 .3319
270.000	.3506 .3181
288.000	.3361 .3320
306.000	.3118 .3483
324.000	.3373 .3058
342.000	.3431 .2169
360.000	.3489 .0016

MSFC 567(1A32F) 19 53/2 53/2 03 US EXTERNAL TANK

(R821051)

MACH (3) = 1.050 ALPHA (5) = 8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .3264 .2091
360.000 .3323 .0066

MACH (4) = 1.250 ALPHA (1) = -8.000 Q = 9.2788 PTA = 3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1950 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439
PHI
.000 .6341 .1398 -.1812 -.1589 -.0976 .3749 .6154 .6508
18.000 .6022 .1229 -.1955 -.1836 -.1313 .3898 .5495 .5691
35.000 .5573 .0927 -.2226 -.2036 -.1500 .3696 .5061 .4480
54.000 .4977 .0435 -.2604 -.2468 -.1114 .4584 .4937 .2813
72.000 .4379 .0075 -.2997 -.2766 .1309 .6401 .5684
90.000 .3575 -.0674 -.3418 .3229 .1614 .4725 .3961 .5032
108.000 .3084 .1011 .3713 .3495 .1121 .0278 .1243 .3709
126.000 .2690 .1394 .3880 .3686 .1121 .0278 .1243 .3709
144.000 .2401 .1596 .4007 .3751 .3508 .0937 .0751 .0389
162.000 .2177 .1735 .3956 .3629 .3037 .0256 .0937 .0751
180.000 .2139 .1775 .3891 .3508 .3123 .0522 .1373 .1232
198.000 .2177 .1735 .3956 .3629 .3037 .0256 .0937 .0751
216.000 .2401 .1596 .4007 .3751 .2572 .0419 .0355 .0782
234.000 .2690 .1394 .3880 .3686 .1121 .0278 .1243 .3709
252.000 .3084 .1011 .3713 .3495 .0330 .0599 .2239 .5820
270.000 .3575 .0674 .3418 .3229 .1614 .4725 .3961 .5032
288.000 .4379 .0075 .2997 .2766 .1309 .6401 .5684 .4937
306.000 .4977 .0435 .2604 .2468 .1114 .4584 .4937 .2813
324.000 .5573 .0927 .2226 .2036 .1500 .3696 .5061 .4480
342.000 .6022 .1229 .1955 .1836 .1313 .3898 .5495 .5691
360.000 .6341 .1398 .1812 .1589 .0976 .3749 .6154 .6508
378.000 .9116 .9836 .2050

X/LT .9116 .9836
PHI
.000 .3741 -.0122
18.000 .3330 .3141
35.000 .3116 .4235
54.000 .2418 .4826
72.000 .2731 .4822
90.000 .2668 .2678
108.000 .1962 .2915
126.000 .1594 .3501
144.000 .1210 .2929

(782105)

MSFC 567(11A32F) T9 53/2 53/2 03 US EXTERNAL TANK

MACH (4) = 1.250 ALPHA (1) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9118 .9836

PHI	
162.000	.1111 .1495
180.000	.1086 .1287
198.000	.1111 .1495
216.000	.1210 .2369
234.000	.1594 .3501
252.000	.1962 .2915
270.000	.2668 .2678
288.000	.2731 .4822
306.000	.2418 .4626
324.000	.3116 .4235
342.000	.3330 .3141
360.000	.3741 -.0122

MACH (4) = 1.250 ALPHA (2) = -5.000 0 = 9.2798 PTA = 22.012 RL = 6.5900 PSA = 3.5-90

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4374 .5055 .5732 .6408 .7085 .7762 .8439

PHI	
16.000	.5474 .0633 -.2365 -.2175 -.1605 .2695 .5083 .6404
36.000	.5263 .0550 -.2435 -.2320 -.1643 .2665 .4485 .5200
54.000	.4993 .0384 -.2614 -.2483 -.1793 .2594 .4377 .4120
72.000	.4647 .0098 -.2854 -.2730 -.0916 .3969 .4291 .1970
90.000	.4305 -.0176 -.3081 -.2900 .1049 .5815 .5062 .2531
108.000	.3774 -.0547 -.3342 -.3135 .1246 .5283 .5050 .5592
126.000	.3513 -.0788 -.3542 -.3344 .0105 .4933 -.0002 .5838
144.000	.3277 -.1062 -.3648 -.3487 -.1476 .4361 .0183 .2768
162.000	.3096 -.1252 -.3730 -.3602 -.2785 .0153 .0691 .0148
180.000	.2956 -.1400 -.3796 -.3560 -.2935 -.0693 .1166 .1002
198.000	.2956 .1400 -.3796 -.3569 -.2935 -.0693 .1166 .1002
216.000	.3096 -.1252 -.3730 -.3602 -.2785 .0153 .0691 .0148
234.000	.3277 -.1062 -.3648 -.3487 -.1476 .4361 .0183 .2768
252.000	.3513 -.0788 -.3542 -.3344 .0105 .4933 -.0002 .5838
270.000	.3774 -.0547 -.3342 -.3135 .1246 .5283 .5050 .5592
288.000	.4305 -.0176 -.3081 -.2900 .1049 .5815 .5062 .2531
306.000	.4547 .0098 -.2854 -.2730 .0916 .3969 .4291 .1970
324.000	.4993 .0384 -.2614 -.2483 -.1793 .2594 .4377 .4120
342.000	.5263 .0550 -.2435 -.2320 .1643 .2665 .4485 .5200
360.000	.5474 .0633 -.2365 -.2175 .1605 .2695 .5083 .6404
378.000	

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK

(RB2T05)

MACH (4) = 1.250 ALPHA (2) = -5.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI	.000	.385	.0330
16.000	.3537	.4210	
36.000	.3350	.3303	
54.000	.2705	.4802	
72.000	.2991	.4890	
90.000	.2557	.2271	
108.000	.1931	.2807	
126.000	.1486	.3195	
144.000	.1113	.2590	
162.000	.1025	.1518	
180.000	.0955	.1438	
198.000	.1025	.1518	
216.000	.1113	.2590	
234.000	.1488	.3195	
252.000	.1931	.2807	
270.000	.2557	.2271	
288.000	.2991	.4890	
306.000	.2705	.4802	
324.000	.3350	.4303	
342.000	.3537	.3210	
360.000	.3851	.0330	

MACH (4) = 1.250 ALPHA (3) = .000 Q = 9.2798 PTA = 22.012 RL = 6.6500 PSA = 6.5490

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2503 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.4238	-.0320	-.3166	-.2934	-.2095	.2005	.4056	.5952	-.4602	-.1747	-.0433	-.1034	-.0058	.2468
18.000	.4116	-.0302	-.3179	-.3013	-.1917	.2136	.3510	.3510	.4484	.1151	-.3689	-.0536	-.0078	-.0973	.2417
36.000	.4094	-.0314	-.3188	-.2977	-.1705	.2482	.3637	.3637	.3629	.0438	-.0677	.0001	-.0931	-.0282	.2385
54.000	.4062	-.0336	-.3147	-.2923	-.1508	.3203	.3231	.3231	.0822	.1211	-.1884	-.0969	-.0143	-.0769	.2343
72.000	.4146	-.0274	-.3155	-.2965	.0579	.4683	.3527	.3527	.4152	.0129	-.0932	-.0952	-.0072	-.0560	.2238
90.000	.3987	-.0344	-.3147	-.2969	.1486	.5821	.6169	.6169	.5393	-.2013	-.0378	-.0231	-.0249	-.0083	.1293
108.000	.4098	-.0286	-.3195	-.2984	.0358	.3889	.2860	.2860	.4898	-.2135	-.0673	-.0331	-.0234	-.0074	.0539
126.000	.4175	-.0332	-.3215	-.2971	-.2038	.1488	.2019	.2019	-.1164	-.1720	-.0848	-.0311	-.0185	-.0024	.0354
144.000	.4195	-.0378	-.3169	-.2975	-.2334	.1034	.1645	.1645	.0706	-.1454	-.1327	-.0598	-.0002	.0150	.0355
162.000	.4222	-.0399	-.3115	-.2942	-.2388	-.0964	.1637	.1637	.1850	-.0280	-.1639	-.0877	.0113	.0348	.0227
180.000	.4271	-.0357	-.3069	-.2887	-.2305	-.1634	.1866	.1866	.2182	.0137	-.1947	-.0993	.0382	.0340	.0210
198.000	.4222	-.0399	-.3115	-.2942	-.2388	-.0964	.1637	.1637	.1850	-.0280	-.1639	-.0877	.0113	.0348	.0227
216.000	.4195	-.0378	-.3169	-.2975	-.2334	.1034	.1645	.1645	.0706	-.1454	-.1327	-.0598	-.0002	.0150	.0355
234.000	.4175	-.0332	-.3215	-.2971	-.2038	.1488	.2019	.2019	-.1164	-.1720	-.0848	-.0311	-.0185	-.0024	.0354
252.000	.4098	-.0286	-.3195	-.2984	.0358	.3889	.2860	.2860	.4898	-.2135	-.0673	-.0331	-.0234	-.0074	.0539
270.000	.3987	-.0344	-.3147	-.2969	.1486	.5821	.6169	.6169	.5393	-.2013	-.0378	-.0231	-.0249	-.0083	.1293

TABLULATED SOURCE DATA, MSFC 1M1 567 (1A32F)

DATE 05 SEP 75

(R82T05)

MSFC 567(1A32F) T9 S3/2 S3/2 O3 U5 EXTERNAL TANK

MACH (4) = 1.250 ALPHA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.4146	-.0274	-.3155	-.2565	.0579	.4683	.3527	-.4152	.0129	-.0932	-.0952	-.0072	-.0560	-.0577	.2238
288.000	.4062	-.0336	-.3147	-.2923	-.1508	.3203	.3231	.0822	.1211	-.1884	-.0969	-.0143	-.0759	-.0582	.2343
306.000	.4094	-.0314	-.3186	-.2977	-.1705	.2492	.3637	.3629	.0438	-.2769	-.0677	.0001	-.0831	-.0282	.2395
324.000	.4118	-.0302	-.3178	-.3013	-.1417	.2136	.3510	.4484	.1151	-.3689	-.0536	-.0078	-.0973	-.0027	.2417
342.000	.4238	-.0320	-.3166	-.2934	-.2095	.2005	.4056	.5952	9.9990	-.4602	-.1747	-.0433	-.1034	-.0058	.2468
360.000									.1151						
378.000															

MACH (4) = 1.250 ALPHA (4) = 5.000 Q = 9.8788 PTA = 22.012 RL = 6.6900 FSA = 8.5490

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.9116	.6838													
18.000	.4210	.1071													
36.000	.3921	.3354													
54.000	.3820	.4290													
72.000	.3234	.5110													
90.000	.3645	.5179													
108.000	.2462	.1795													
126.000	.1612	.2865													
144.000	.1375	.2691													
162.000	.1065	.1979													
180.000	.0903	.1808													
198.000	.1055	.1979													
216.000	.1375	.2691													
234.000	.1612	.2865													
252.000	.1885	.2701													
270.000	.8482	.1798													
288.000	.3845	.5178													
306.000	.3234	.5110													
324.000	.3880	.4290													
342.000	.3821	.3384													
360.000	.4210	.1071													

MACH (4) = 1.250 ALPHA (4) = 5.000 Q = 9.8788 PTA = 22.012 RL = 6.6900 FSA = 8.5490

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.2959	-.1272	-.3141	-.2759	-.0850	.1038	.2497	.4419		-.3988	-.0839	.0220	.0032	.1171	.2726
18.000	.2946	-.1210	-.3723	-.3334	-.1254	.1214	.2704	.3841	.0641	-.3700	-.0392	.0467	-.0062	.1081	.2636
36.000	.3079	-.1097	-.3678	-.3328	-.2182	.1789	.2793	.2742	.0443	-.3530	-.0588	.0358	-.0186	.0927	.2435
54.000	.3305	-.0924	-.3561	-.3438	-.1776	.1378	.1788	.0749	.0331	-.2589	-.0422	.0304	-.0182	.0905	.2402
72.000	.3689	-.0577	-.3425	-.3244	-.0001	.2248	.0450	-.4700	-.2044	-.1051	.0035	.0325	-.0078	.0773	.2261
90.000	.3889	-.0412	-.3199	-.3030	.1296	.5335	.5708	-.4977	-.0981	-.0169	.0217	.0059	.0655	.1743	

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

(R82T05)

DATE 09 SEP 75

MSFC 567(1A32F) TO 53/2 53/2 03 US EXTERNAL TANK

MACH (4) = 1.250 ALPHA (4) = 5.000

SECTION (1) EXTERNAL TANK		DEPENDENT VARIABLE CP														
X/LT		.0757	.1950	.2203	.2347	.2707	.3139	.3489	.3818	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI																
108.000	.4423	-.0094	-.2660	-.2603	.0322	.4880	.4565	-.3589	-.0641	-.0856	-.0410	.0026	.0021	.0390	.0989	
126.000	.4885	.0253	-.2764	-.2632	-.2037	.2240	.2918	.0314	-.0285	-.0720	-.0469	.0021	.0170	.0315	.0784	
144.000	.5237	.0507	-.2579	-.2518	-.1895	.1294	.2308	.1590	-.0695	-.0648	-.0535	-.0180	.0245	.0149	.0614	
162.000	.5471	.0710	-.2441	-.2343	-.1816	-.0957	.2165	.2386	.0331	-.0644	-.0524	-.0244	.0385	.0055	.0500	
180.000	.5577	.0807	-.2402	-.2308	-.1742	-.1159	.2151	.2642	.0726	-.0878	-.0474	-.0177	.0381	.0069	.0142	
198.000	.5471	.0710	-.2441	-.2343	-.1816	-.0957	.2165	.2386	.0331	-.0644	-.0524	-.0244	.0385	.0055	.0500	
216.000	.5237	.0507	-.2579	-.2518	-.1895	.1294	.2308	.1590	-.0695	-.0648	-.0535	-.0180	.0245	.0149	.0614	
234.000	.4885	.0253	-.2764	-.2632	-.2037	.2240	.2918	.0314	-.0285	-.0720	-.0469	.0021	.0170	.0315	.0784	
252.000	.4423	-.0094	-.2660	-.2603	.0322	.4880	.4565	-.3589	-.0641	-.0856	-.0410	.0026	.0021	.0390	.0989	
270.000	.3689	-.0412	-.3199	-.3030	.1296	.5335	.5708	-.4977	-.0981	-.0217	-.0169	.0058	.0665	.1743		
288.000	.3305	-.0924	-.3561	-.3438	-.0001	.2248	.0450	-.4700	-.2044	-.1051	.0035	.0325	-.0078	.0773	.2261	
306.000	.3079	-.1097	-.3678	-.3326	-.2182	.1789	.1788	-.0749	.0331	-.2589	.0422	.0304	-.0182	.0906	.2402	
324.000	.2945	-.1210	-.3723	-.3334	-.1254	.1214	.2704	.3841	.0641	-.3700	.0392	.0467	-.0062	.1091	.2636	
342.000	.2959	-.1272	-.3141	-.2755	-.0850	.1036	.2497	.4419	9.9990	-.3988	-.0839	.0220	.0032	.1171	.2726	
378.000									.0641							

X/LT		.9116	.9836
PHI			
.000	.3908	.1168	
18.000	.3715	.3090	
36.000	.3634	.3986	
54.000	.3530	.4518	
72.000	.3347	.4084	
90.000	.2403	.2393	
108.000	.2028	.2568	
126.000	.1702	.2895	
144.000	.1466	.2913	
162.000	.1180	.2323	
180.000	.1093	.2194	
198.000	.1180	.2323	
216.000	.1466	.2913	
234.000	.1702	.2895	
252.000	.2028	.2568	
270.000	.2403	.2393	
288.000	.3347	.4084	
306.000	.3230	.4518	
324.000	.3634	.3986	
342.000	.3715	.3090	
360.000	.3908	.1168	

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK (R82705)

MACH (4) = 1.250 ALPHA (5) = 8.000 Q = 9.2798 PTA = 22.012 RL = 6.6900 PSA = 3.5190

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.2211	-.1806	-.2693	-.2466	-.1014	.0344	.1632	.3712	.0470	-.3306	.0039	.0487	.0675	.1541	.2598
18.000	.2193	-.1737	-.3584	-.3324	-.1017	.0693	.1991	.3165	.0470	-.3652	.0715	.0571	.0526	.1453	.2547
36.000	.2405	-.1593	-.3765	-.3422	-.1762	.1175	.1872	.2328	.0557	-.4024	.0592	.0380	.0350	.1213	.2427
54.000	.2709	-.1388	-.3849	-.3673	-.1187	.0339	.0295	-.0434	-.0443	-.2348	.0330	.0479	.0375	.1183	.2373
72.000	.3286	-.0986	-.3665	-.3550	-.0244	.0821	-.2147	-.3889	-.2832	-.1302	.0081	.0475	.0412	.1093	.2286
90.000	.3648	-.0545	-.3357	-.3251	.1346	.4951	.5038	-.4684	-.1212	-.0101	-.0387	.0490	.0490	.0908	.1722
108.000	.4493	.0068	-.2982	-.2860	-.0044	.5395	.5146	-.2766	.0827	-.0633	.0039	.0202	.0474	.0424	.0965
126.000	.5271	.0607	-.2534	-.2357	-.1756	.3061	.3239	.1245	.1205	-.0537	-.0221	-.0050	.0437	.0230	.0719
144.000	.5834	.1068	-.2178	-.2055	-.1578	.1199	.2558	.2231	-.0094	-.0242	-.0350	-.0158	.0337	.0212	.0518
162.000	.6219	.1407	-.1899	-.1784	-.1329	-.0765	.2635	.2826	.0758	.0071	-.0413	-.0195	.0010	.0304	.0385
180.000	.6349	.1526	-.1812	-.1701	-.1294	-.0735	.1896	.3041	.1066	.0068	-.0334	-.0117	-.0015	.0420	.0090
198.000	.6219	.1407	-.1899	-.1784	-.1329	-.0765	.2635	.2826	.0758	.0071	-.0413	-.0195	.0010	.0304	.0385
216.000	.5834	.1068	-.2178	-.2055	-.1578	.1199	.2558	.2231	-.0094	-.0242	-.0350	-.0158	.0337	.0212	.0518
234.000	.5271	.0607	-.2534	-.2357	-.1756	.3061	.3239	.1245	.1205	-.0537	-.0221	-.0050	.0437	.0230	.0719
252.000	.4493	.0068	-.2982	-.2860	-.0044	.5395	.5146	-.2766	.0827	-.0633	.0039	.0202	.0474	.0424	.0965
270.000	.3646	-.0545	-.3357	-.3251	.1346	.4951	.5038	-.4684	.0827	-.0633	.0039	.0202	.0474	.0424	.0965
288.000	.3286	-.0986	-.3665	-.3550	-.0244	.0821	-.2147	-.3889	-.2832	-.1302	.0081	.0475	.0412	.1093	.2286
306.000	.2709	-.1388	-.3849	-.3673	-.1187	.0339	.0295	-.0434	-.0443	-.2348	.0330	.0479	.0375	.1183	.2373
324.000	.2405	-.1593	-.3765	-.3422	-.1762	.1175	.1872	.2328	.0557	-.4024	.0592	.0380	.0350	.1213	.2427
342.000	.2193	-.1737	-.3584	-.3324	-.1017	.0693	.1991	.3165	.0470	-.3652	.0715	.0571	.0526	.1453	.2547
360.000	.2211	-.1806	-.2693	-.2466	-.1014	.0344	.1632	.3712	.0470	-.3306	.0039	.0487	.0675	.1541	.2598
378.000	.9116	.9835						.0470							

PHI															
.000	.3435	.0891													
18.000	.3342	.2711													
36.000	.3386	.3703													
54.000	.3120	.4021													
72.000	.3183	.3594													
90.000	.2289	.2341													
108.000	.2073	.2361													
126.000	.1714	.3072													
144.000	.1469	.3145													
162.000	.1164	.2604													
180.000	.1002	.2431													
198.000	.1164	.2604													
216.000	.1469	.3145													
234.000	.1714	.3072													
252.000	.2073	.2361													
270.000	.2289	.2341													
288.000	.3183	.3594													
306.000	.3120	.4021													
324.000	.3386	.3703													

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NSFC 567(1A3ZF) TO 53/2 53/2 03 US EXTERNAL TANK

(R62T05)

MACH (5) = 3.500 ALPHA (1) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .8636

PHI	
162.000	-.0341 .0007
180.000	-.0391 -.0239
198.000	-.0341 .0007
216.000	-.0209 .0575
234.000	-.0053 .0305
252.000	-.0195 -.0185
270.000	.0108 .0477
288.000	.0731 .3417
306.000	.1340 .3217
324.000	.0788 .2896
342.000	.0873 .2297
360.000	.1262 .0675

MACH (5) = 3.500 ALPHA (2) = -5.000 Q = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0797 .1550 .2203 .2347 .2707 .3139 .3489 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	
.000	.9562 .1979 .0416 .0345 .0338 .0274 .0372 .1878 .0105 .0474 .1167 .1164 .0786 .0565
18.000	.5406 .1883 .0326 .0248 .0187 .0184 .0370 .1767 .4336 -.0110 .0301 .0901 .0897 .0731 .0575
36.000	.5190 .1763 .0223 .0182 .0098 .0132 .0518 .1665 .1749 .1133 .0156 .0467 .0873 .0657 .0386
54.000	.4773 .1546 .0129 .0071 .0014 .0247 .0724 .1137 .2683 .1729 .0294 .0453 .0575 .0447 .0244
72.000	.4442 .1323 .0007 -.0043 -.0073 .0250 .2436 .2392 .0714 .0254 .0985 .0832 .0169 .0193 .0501
90.000	.3981 .1094 -.0117 -.0157 -.0113 .1392 .5900 .2228 -.0459 .0146 .0017 -.0344 -.0266 -.0043
108.000	.3620 .0907 -.0202 -.0242 -.0199 -.0063 .2026 .0739 -.0621 -.0598 -.0729 -.0541 -.0448 -.0293 -.0120
126.000	.3319 .0724 -.0283 -.0314 -.0290 -.0212 .0077 .0254 -.0188 -.0611 -.0652 -.0550 -.0496 -.0303 -.0148
144.000	.3109 .0602 -.0344 -.0374 -.0341 -.0242 .0058 .0232 -.0263 -.0445 -.0479 -.0422 -.0310 -.0310 -.0280
162.000	.2977 .0552 -.0374 -.0401 -.0344 -.0246 .0046 -.0185 -.0192 -.0043 .0016 -.0134 -.0195 -.0266 -.0314
180.000	.2357 .0524 -.0374 -.0408 -.0347 -.0239 .0212 .0158 .0078 .0105 .0073 .0050 .0229 .0297 .0303
198.000	.2977 .0552 -.0374 -.0401 -.0344 -.0246 .0046 -.0185 -.0192 -.0043 .0016 -.0134 -.0195 -.0266 -.0314
216.000	.3109 .0602 -.0344 -.0374 -.0341 -.0242 .0058 .0232 .0078 .0105 .0073 .0050 .0229 .0297 .0303
234.000	.3319 .0724 -.0283 -.0314 -.0290 -.0212 .0077 .0254 -.0188 -.0611 -.0652 -.0550 -.0496 -.0303 -.0148
252.000	.3620 .0907 -.0202 -.0242 -.0199 -.0063 .2026 .0739 -.0621 -.0598 -.0729 -.0541 -.0448 -.0293 -.0120
270.000	.3981 .1094 -.0117 -.0157 -.0113 .1392 .5900 .2228 -.0459 .0146 .0017 -.0344 -.0266 -.0043
288.000	.4442 .1323 .0007 -.0043 -.0073 .0250 .2436 .2392 .0714 .0254 .0985 .0832 .0169 .0193 .0501
306.000	.4773 .1546 .0129 .0071 .0014 .0247 .0724 .1137 .2683 .1729 .0294 .0453 .0575 .0447 .0244
324.000	.5190 .1763 .0223 .0182 .0098 .0132 .0518 .1665 .1749 .1133 .0156 .0467 .0873 .0657 .0386
342.000	.5406 .1883 .0326 .0248 .0187 .0184 .0370 .1767 .4336 -.0110 .0301 .0901 .0897 .0731 .0575
360.000	.5562 .1979 .0416 .0345 .0338 .0274 .0372 .1878 .4336 .0105 .0474 .1167 .1164 .0786 .0565

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK

(R62T05)

MACH (5) = 3.500 ALPHA (2) = -5.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	PHI	PTA	RL	PSA
.000	.0944	.0633	.0711	.0633
18.000	.0651	.1884	.0457	.0139
36.000	.0474	.2344	.0132	.0173
54.000	.1056	.2625	.0237	.0196
72.000	.0464	.2480	.0051	.0058
90.000	.0220	.0220	.0276	.0232
108.000	.0221	.0282	.0334	.0333
126.000	.0000	.0582	.0114	.0087
144.000	-.0222	.0893	.0026	.0114
162.000	-.0341	-.0009	.0320	.0175
180.000	-.0341	-.0009	.0071	.0046
216.000	-.0222	.0893	.0026	.0114
234.000	.0000	.0582	.0071	.0046
252.000	.0221	.0282	.0326	.0326
270.000	.0220	.0220	.0087	.0087
288.000	.0484	.2480	.0051	.0058
306.000	.1096	.2625	.0237	.0196
324.000	.0474	.2344	.0132	.0173
342.000	.0651	.1884	.0457	.0139
360.000	.0944	.0633	.0711	.0633

MACH (5) = 3.500 ALPHA (3) = .000 0 = 5.7188 PTA = 50.011 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	PHI	PTA	RL	PSA
.000	.1139	.0245	.0215	.0238
18.000	.1113	.0088	.0047	.0088
36.000	.1144	.0024	-.0009	.0081
54.000	.1133	-.0036	-.0023	.0059
72.000	.1116	-.0087	-.0070	.0058
90.000	.1110	-.0107	-.0124	.0024
108.000	.1120	-.0107	-.0148	.0043
126.000	.1113	-.0131	-.0165	.0010
144.000	.1127	-.0134	-.0178	.0046
162.000	.1150	-.0121	-.0171	.0029
180.000	.1137	-.0138	-.0178	.0010
198.000	.1151	-.0121	-.0171	.0029
216.000	.1127	-.0134	-.0178	.0046
234.000	.1113	-.0131	-.0165	.0010
252.000	.1120	-.0107	-.0148	.0043
270.000	.1110	-.0107	-.0124	.0024

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82T05)

DATE 05 SEP 75

MSFC 567(1A32F) TO 53/2 53/2 03 US EXTERNAL TANK

MACH (5) = 3.500 ALPHA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.1550	.2203	.2397	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI														
288.000	.4191	.1116	-.0067	-.0070	.0068	.0173	.2419	.1434	.0024	-.0144	-.0273	.0315	.0051	.0068
306.000	.4077	.1133	-.0036	-.0023	.0096	.0176	.0538	.0838	.1253	.0866	-.0107	-.0212	.0237	.0196
324.000	.4141	.1144	.0024	-.0009	.0081	.0190	.0838	.1039	.1360	.1018	.0014	.0027	.0132	.0173
342.000	.4181	.1113	.0088	.0047	.0088	.0227	.0633	.0839	.2449	.0027	.0146	.0345	.0457	.0139
360.000	.4203	.1139	.0245	.0215	.0238	.0333	.0579	.0746	.05930	.0259	.0379	.0711	.0633	.0338
378.000								.2449						

X/LT .9116 .9838

PHI

.000	.0738	.0704
18.000	.0548	.1577
36.000	.0288	.2074
54.000	.0511	.2263
72.000	.0156	.1955
90.000	.0244	.0298
108.000	.0203	.0623
126.000	.0068	.1184
144.000	-.0161	.1049
162.000	-.0236	-.0033
180.000	-.0212	-.0165
198.000	-.0236	-.0033
216.000	-.0161	.1049
234.000	.0068	.1184
252.000	.0203	.0623
270.000	.0244	.0298
288.000	.0156	.1955
306.000	.0511	.2263
324.000	.0288	.2074
342.000	.0548	.1577
360.000	.0738	.0704

MACH (5) = 3.500 ALPHA (4) = 5.000 Q = 5.7188 PTA = 50.011 RL = 5.3300 PSA = .87500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.1550	.2203	.2397	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI														
.000	.2998	.0857	.0173	.0197	.0207	.0244	.0299	.0437	.0143	.0504	.0585	.0213	-.0063	-.0283
18.000	.3031	.0592	.0109	.0105	.0051	.0132	.0227	.0284	.1739	-.0080	.0396	.0501	.0135	-.0114
36.000	.3156	.0653	.0118	.0139	.0081	.0091	.0176	.0329	.0876	.0315	-.0395	-.0060	-.0121	-.0114
54.000	.3363	.0744	.0102	.0139	.0089	.0105	.0064	.0328	.0878	-.0205	-.0530	-.0222	.0003	-.0079
72.000	.3735	.0900	.0024	.0116	.0091	.0122	.2290	.0558	-.0242	-.0381	-.0300	.0078	.0192	.0152
90.000	.4012	.1100	-.0094	.0031	.0075	.0659	.6702	.1911	-.0286	.0024	-.0077	.0044	.0201	.0179

MSFC 567(1A32F) T8 53/2 53/2 03 US EXTERNAL TANK (R82T05)

MACH (5) = 3.500 ALPHA (5) = 8.000 0 = 5.7168 PTA = 50.011 RL = 2.330C PSA = .67500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2847	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
Phi	.000	.0440	.0210	.0200	.0217	.0186	.0173	.0474	.0237	.0724	.0274	.0033	-.0253	-.0175	
18.000	.2338	.0432	.0091	.0037	.0044	.0068	.0068	.0173	.1499	.0051	.0382	-.0250	-.0263	-.0266	
36.000	.2598	.0382	.0044	.0059	.0010	.0041	.0037	.0166	.0484	-.0083	-.0520	-.0257	-.0141	-.0100	
54.000	.2933	.0518	.0010	.0037	-.0002	.0051	.0017	.0034	.0484	-.0388	.0510	-.0314	-.0070	.0024	-.0009
72.000	.3447	.0751	-.0151	-.0019	-.0036	-.0067	.1634	.0237	-.0229	-.0374	-.0489	-.0324	-.0165	-.0070	-.0067
90.000	.3945	.1066	-.0107	-.0124	-.0016	.1313	.6769	.2324	-.0161	-.0033	-.0104	-.0104	-.0104	-.0053	-.0050
108.000	.4631	.1445	.0027	-.0019	-.0040	.0412	.1907	.2805	.0782	-.0107	.0217	.0355	.0349	.0399	.0366
126.000	.5294	.1810	.0206	.0146	.0078	.0311	.0798	.0812	.1374	.0626	.0257	.0349	.0450	.0420	.0392
144.000	.5907	.2152	.0393	.0308	.0223	.0244	.0711	.0937	.0798	.0460	.0484	.0529	.0450	.0413	.0359
162.000	.6299	.2409	.0524	.0433	.0345	.0349	.0382	.0426	.0913	.0836	.0785	.0619	.0521	.0423	.0392
180.000	.6451	.2476	.0572	.0491	.0396	.0396	.0393	.0376	.0508	.1096	.0981	.0711	.0518	.0430	.0359
198.000	.6299	.2409	.0524	.0437	.0345	.0349	.0382	.0425	.0913	.0836	.0785	.0619	.0521	.0423	.0392
216.000	.5907	.2152	.0393	.0308	.0223	.0244	.0711	.0937	.0798	.0460	.0484	.0529	.0450	.0413	.0359
234.000	.5294	.1810	.0206	.0146	.0078	.0311	.0798	.0812	.1374	.0626	.0257	.0349	.0450	.0420	.0392
252.000	.4631	.1445	.0027	-.0019	-.0040	.0413	.1807	.2805	.0782	-.0107	.0217	.0355	.0349	.0399	.0366
270.000	.3945	.1066	-.0107	-.0124	-.0016	.1313	.6769	.2324	-.0161	-.0033	-.0104	-.0104	-.0104	-.0053	-.0050
288.000	.3447	.0751	-.0151	-.0019	-.0036	-.0067	.1634	.0237	-.0229	-.0374	-.0489	-.0324	-.0165	-.0070	-.0067
306.000	.2933	.0518	.0010	.0037	-.0002	.0051	.0017	.0034	.0484	-.0388	.0510	-.0314	-.0070	.0024	-.0009
324.000	.2598	.0382	.0044	.0059	.0010	.0041	.0037	.0166	.0484	-.0083	-.0520	-.0257	-.0141	-.0100	
342.000	.2402	.0352	.0091	.0037	.0044	.0068	.0068	.0173	.1499	.0051	.0382	-.0297	-.0141	-.0100	
360.000	.2338	.0440	.0210	.0200	.0217	.0186	.0173	.0474	.0237	.0724	.0274	.0033	-.0253	-.0175	
378.000															

X/LT .9116 .9836

Phi	.1231	.1231	.1231	.1231	.1231	.1231	.1231	.1231	.1231	.1231	.1231	.1231	.1231	.1231	.1231
18.000	.1279	.1651	.1996	.1945	.1275	.1374	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303
36.000	.0802	.0396	.1374	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430
54.000	.0396	.1374	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362
72.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
90.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
108.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
126.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
144.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
162.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
180.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
198.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
216.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
234.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
252.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
270.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
288.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
306.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
324.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
342.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
360.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311
378.000	.0369	.1303	.2199	.1157	.0430	.0362	.0311	.0430	.1167	.1303	.2199	.1157	.0430	.0362	.0311

ORIGINAL PAGE IS OF POOR QUALITY

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 U5 EXTERNAL TANK (R82T05)

DATE 05 SEP 75

MACH (5) = 3.500 ALPHA (5) = 8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.9836
PHI		
342.000	.1278	.1651
360.000	.1231	.1231

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK

(198205) (24 APR 74)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040 SCALE

PARAMETRIC DATA

ALPHA = .000 COMP13 = 90.000
 DELTAZ = .140 SUDDER = .000
 X-SRB = .000 ZPRINC = .500

MACH (1) = .600 BETA (1) = -8.000 Q = 4.3654 PTA = 22.011 RL = 5.0043 PSA = 17.234

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6409	.7085	.7762	.8439
PHI	.0882	-.2645	-.2123	-.1616	.0320	.1059	.1610	.1489	-.3002	-.0430	-.0042	-.0181	-.0432	-.0809	-.0809
18.000	.1516	-.2070	-.1810	-.1216	.0424	.1123	.1796	.2031	.0093	-.1059	.0154	.0372	.0630	.1037	.1589
35.000	.2248	-.1484	-.1392	-.0779	.0604	.0867	.1051	.1161	.0209	-.0223	.0334	.0590	.0858	.1307	.1823
54.000	.2759	-.1037	-.0953	-.0037	.0915	.0704	.0008	.0163	.0084	.0142	.0315	.0549	.0787	.1225	.1864
72.000	.3134	-.0782	-.0428	.0561	.1696	.1359	-.1831	-.1059	-.1064	.0338	.0272	.0479	.0591	.1223	.1885
93.000	.3002	-.0833	-.0168	.1025	.2057	.2106	-.1301	-.2696	.0306	.0095	.0259	.0373	.0423	.0380	.0380
108.000	.2824	-.1057	-.0902	.0249	.0838	-.0007	.3661	-.2560	-.2142	-.0304	.0000	.0183	.0253	.0312	.0403
125.000	.2316	-.1595	-.1709	-.0844	.0164	-.0965	.2027	-.1711	-.1117	-.0411	-.0255	-.0047	.0049	.0299	.0198
144.000	.1589	-.2245	-.2288	-.1613	-.0754	-.1044	-.1070	-.1272	.0983	-.0652	.0500	-.0324	.0254	.0277	.0185
162.000	.0998	-.2817	-.2843	-.1782	-.1102	-.1133	-.0932	-.1182	-.1071	-.0855	-.0697	-.0555	-.0532	.0473	.0425
180.000	.0211	-.3232	-.2918	-.2547	-.0978	-.0974	.1027	-.1068	-.1001	-.0855	-.0765	-.0552	-.0575	.0551	.0703
198.000	-.0206	-.3496	-.3009	-.2800	-.0939	-.0835	.1195	-.0950	-.1003	-.0915	-.0767	-.0599	-.0591	.0482	.0419
216.000	-.0567	-.3628	-.2938	-.2224	-.0414	-.0421	.0755	-.0972	-.0959	-.0818	-.0551	-.0359	-.0292	.0251	.0154
234.000	-.0932	-.3556	-.2663	-.0307	.0348	.0050	.1073	-.1326	-.1118	-.0650	-.0455	-.0266	-.0238	.0126	.0117
252.000	-.1103	-.3482	-.1684	.0244	.1222	.0816	.2603	-.2174	-.2468	-.0304	.0000	.0183	.0253	.0312	.0403
270.000	-.1224	-.3420	-.1653	.1043	.2204	.2606	-.0941	-.2435	-.0685	-.0755	-.0482	-.0237	-.0237	.0128	.0128
289.000	-.0570	-.3340	-.2040	.0561	.1713	.1734	-.1529	-.1632	-.2291	-.0927	-.0907	-.0507	-.0507	.0128	.0128
305.000	-.0888	-.3331	-.2302	.0101	.0846	.0849	-.0233	-.0895	-.1473	-.1271	-.1231	-.1356	-.1524	.0148	.0148
324.000	-.0560	-.3249	-.2134	-.0740	.0276	.0563	.0111	-.0626	-.2453	-.2799	-.2641	-.1659	-.0771	.0156	.0156
342.000	-.0375	-.3115	-.2361	-.0981	.0170	.0697	.0558	-.0141	-.5007	-.5858	-.2391	-.0493	-.0224	.0331	.0331
360.000	.0982	-.2645	-.2123	-.1616	.0320	.1059	.1610	.1489	9.9990	-.3002	-.0430	-.0042	-.0181	.0432	.0432
378.000	.9116	.9836							.0093						

ORIGINAL PAGE IS OF POOR QUALITY

MSFC 987(1A32F) TO 53/2 53/2 03 US EXTERNAL TANK

(R82T08)

MACH (1) = .600 BETA (1) = -9.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI	
216.000	-.0008
234.000	.0026
252.000	.0757
270.000	.1274
288.000	.0756
306.000	.0109
324.000	.0959
342.000	.1140
350.000	.2244

MACH (1) = .600 BETA (2) = -4.000 Q = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0797 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7095 .7762 .8479

PHI														
.000	.1157	-.2347	-.1842	-.0942	.0586	.1429	.2043	.1932	-.4656	-.1278	-.0186	.0398	.0773	.1237
18.000	.1374	-.2125	-.1733	-.1384	.0597	.1302	.1826	.1762	-.1314	-.0898	.0225	.0587	.1008	.1537
36.000	.1671	-.1864	-.1514	-.1117	.0618	.0924	.0939	.0791	-.0468	-.0500	.0267	.0558	.0979	.1533
54.000	.1849	-.1703	-.1327	-.0814	.0875	.0753	-.0153	-.0247	-.0448	-.0304	.0233	.0463	.0977	.1458
72.000	.2069	-.1547	-.0897	.0713	.1527	.1317	-.1848	-.1415	-.1524	-.0074	.0126	.0154	.0384	.0727
90.000	.1922	-.1829	-.0489	.0794	.1938	.2136	-.1313	-.2794	-.0032	-.0171	.0073	.0239	.0404	.0530
108.000	.1843	-.1771	-.1230	.0216	.0815	.0931	-.3519	-.2590	-.0341	-.0215	.0033	.0289	.0201	.0327
126.000	.1608	-.2095	-.1862	-.1020	-.0050	-.0713	-.1622	-.1704	-.1157	-.0500	-.0303	-.0767	-.0226	-.0124
144.000	.1278	-.2453	-.2310	-.1848	-.0546	-.0746	-.0896	-.1115	-.0894	-.0561	-.0356	-.0164	-.0131	-.0050
162.000	.0939	-.2707	-.2538	-.2161	-.0590	-.0729	-.0594	-.0840	-.0730	-.0543	-.0418	-.0252	-.0254	-.0142
180.000	.0582	-.2959	-.2655	-.2445	-.0557	-.0844	-.0697	-.0765	-.0672	-.0547	-.0374	-.0253	-.0202	-.0033
198.000	.0493	-.3003	-.2618	-.2405	-.0431	-.0488	-.0808	-.0641	-.0555	-.0488	-.0349	-.0203	-.0054	-.0035
216.000	.0298	-.3034	-.2494	-.1896	-.0192	-.0289	-.0809	-.0788	-.0723	-.0497	-.0331	-.0167	-.0034	-.0053
234.000	.0078	-.3010	-.2297	-.0448	.0391	-.0102	-.1247	.1365	-.1073	.0515	.0340	-.0167	-.0555	-.0099
252.000	-.0070	-.2982	-.1307	.0120	.1148	.0567	-.2905	-.2327	-.2459	-.0541	-.0215	.0003	.0289	.0267
270.000	-.0148	-.2914	-.0826	.0667	.2144	.2477	-.0954	-.2556	-.0479	-.0497	-.0298	.0105	.0235	.0498
288.000	.0050	-.2829	-.1737	.0713	.1707	.1597	-.1750	-.1590	-.2070	-.0619	-.0671	-.0357	.0033	.0322
306.000	.0147	-.2745	-.1861	.0085	.1011	.0632	-.0130	-.0589	-.1116	-.0854	-.0723	-.0593	.0052	.0449
324.000	.0383	-.2669	-.1924	-.0623	.0671	.0911	.0585	.0030	-.1735	-.1355	-.1397	-.0580	.0215	.0709
342.000	.0609	-.2596	-.1703	-.0504	.0557	.1156	.1362	.0825	-.4284	-.3546	-.2951	-.0102	.0053	.0529
350.000	.1157	-.2347	-.1842	-.0943	.0586	.1429	.2043	.1932	9.9930	-.4865	-.1278	-.0186	.0398	.1237
378.000									-.1314					

X/LT .9116 .9836

PHI

.000	.2320
18.000	.2331

MSFC 987(1A3EF) T9 S3/2 S3/2 03 US EXTERNAL TANK (R827D6)

MACH (1) = .600 BETA (2) = -.4,000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9838

PHI	36.000	.2072	.1659
	54.000	.0974	.2332
	72.000	.1894	.2655
	90.000	.1219	.0421
	108.000	.0652	.0518
	126.000	.0296	.0534
	144.000	-.0013	.0120
	162.000	-.0235	-.1343
	180.000	-.0245	-.1475
	198.000	-.0322	-.1313
	216.000	.0162	.0224
	234.000	.0312	.0524
	252.000	.0652	.0618
	270.000	.1410	-.0229
	288.000	.0965	.0722
	306.000	.0153	.0860
	324.000	.0875	-.0117
	342.000	.1285	-.1064
	350.000	.2320	-.5235

MACH (1) = .600 BETA (3) = .000 0 = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7752 .8439

PHI	.000	.1119	-.2400	-.1928	-.0510	.0567	.1596	.2239	.2172	-.6874	-.2683	-.1004	-.0122	.2544	.2526
	18.000	.1013	-.2356	-.1786	-.0670	.0561	.1357	.1698	.1365	-.2904	-.1830	-.1037	-.2397	.0398	.2866
	36.000	.0969	-.2320	-.1733	-.0769	.0578	.0949	.0768	.0382	-.1172	-.0889	-.0313	.0003	.0219	.1741
	54.000	.0909	-.2344	-.1630	-.0182	.0967	.0795	-.0232	-.0540	-.0891	-.0660	-.0119	.0091	.0434	.2992
	72.000	.0978	-.2305	-.1388	.0858	.1532	.1402	-.2306	-.1639	-.1917	-.0446	-.0173	.0101	.0409	.2882
	90.000	.0742	-.2453	-.0802	.0621	.1939	.2245	-.1326	-.2762	-.0377	-.0402	-.0129	.0073	.0262	.2817
	108.000	.0788	-.2531	-.1655	.0264	.0304	.0213	-.3403	-.2547	-.0695	-.0313	-.0549	.0029	.0149	.2853
	126.000	.0778	-.2632	-.2078	-.0949	.0138	-.0401	-.1548	-.1554	-.0527	-.0420	-.0317	-.0144	.0106	.2738
	144.000	.0747	-.2770	-.2378	-.1966	-.0323	-.0461	-.0727	.0939	-.0737	-.0489	-.0376	-.0026	.0024	.2686
	162.000	.0725	-.2685	-.2572	-.2272	-.0512	-.0553	-.0542	.0592	-.0626	-.0303	-.0120	-.0025	-.0032	.2616
	180.000	.0755	-.2644	-.2524	-.2350	-.0475	-.0515	-.0569	.0635	-.0526	-.0285	-.0137	-.0077	-.0027	.2517
	198.000	.0725	-.2685	-.2572	-.2272	-.0512	-.0553	-.0642	.0592	-.0526	-.0303	-.0120	-.0025	-.0032	.2616
	216.000	.0747	-.2770	-.2378	-.1966	-.0323	-.0461	-.0727	.0939	-.0737	-.0489	-.0376	-.0026	.0024	.2686
	234.000	.0778	-.2632	-.2078	-.0949	.0138	-.0401	-.1548	-.1554	-.0527	-.0420	-.0317	-.0144	.0106	.2738
	252.000	.0788	-.2531	-.1655	.0264	.0304	.0213	-.3403	-.2547	-.0695	-.0313	-.0549	.0029	.0149	.2853
	270.000	.0742	-.2453	-.0802	.0621	.1939	.2245	-.1326	-.2762	-.0377	-.0402	-.0129	.0073	.0262	.2817
	288.000	.0909	-.2344	-.1630	.0858	.1532	.1402	-.2306	-.1639	-.1917	-.0446	-.0173	.0101	.0409	.2882
	306.000	.0978	-.2305	-.1388	.0858	.1532	.1402	-.2306	-.1639	-.1917	-.0446	-.0173	.0101	.0409	.2882
	324.000	.0978	-.2305	-.1388	.0858	.1532	.1402	-.2306	-.1639	-.1917	-.0446	-.0173	.0101	.0409	.2882
	342.000	.0909	-.2344	-.1630	.0858	.1532	.1402	-.2306	-.1639	-.1917	-.0446	-.0173	.0101	.0409	.2882
	350.000	.0909	-.2344	-.1630	.0858	.1532	.1402	-.2306	-.1639	-.1917	-.0446	-.0173	.0101	.0409	.2882

MSFC 567(1A,12F) T8 53/2 53/2 03 U5 EXTERNAL TANK (R82106)

MACH (1) = .600 BETA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT_VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
324.000	.0569	-.2320	-.1733	-.0768	.0678	.0948	.0768	.0382	-.1172	-.0889	-.0576	-.0313	.0003	.0319	.0740
342.000	.1013	-.2356	-.1786	-.0670	.0661	.1357	.1698	.1365	-.2904	-.1830	-.1367	-.1037	-.0387	.0398	.0865
360.000	.1119	-.2400	-.1528	-.0510	.0687	.1596	.2239	.2172	9.9690	-.6874	-.2683	-.1004	-.0122	.0544	.0928
378.000									-.2874						

X/LT .9116 .9836

PHI

.000	.1272	-.3234
18.000	.1071	-.0716
36.000	.0990	.0387
54.000	.0281	.1566
72.000	.1154	.1671
90.000	.1368	.0175
108.000	.0691	.0371
126.000	.0195	.0601
144.000	.0119	.0289
162.000	-.0058	-.1106
180.000	-.0155	-.1438
198.000	-.0059	-.1106
216.000	.0119	.0289
234.000	.0195	.0601
252.000	.0691	.0371
270.000	.1368	.0175
288.000	.1154	.1671
306.000	.0281	.1566
324.000	.0990	.0387
342.000	.1071	-.0716
360.000	.1272	-.3234

MACH (1) = .600 BETA (4) = 4.000 0 = 4.3594

PSA = 17.234

PTA = 22.011

RL = 5.0040

PSA = 17.234

SECTION (1) EXTERNAL TANK DEPENDENT_VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.1034	-.2384	-.1771	-.1374	.0775	.1520	.2187	.2051	-.4284	-.5330	-.1573	-.0182	.0387	.0778	.1189
18.000	.0509	-.2596	-.1703	-.0604	.0557	.1156	.1362	.0825	-.3546	-.3546	-.2951	-.1102	-.0053	.0555	.0928
36.000	.0383	-.2659	-.1824	-.0623	.0671	.0911	.0586	.0030	-.1735	-.1355	-.1397	-.1525	-.0580	.0209	.0708
54.000	.0147	-.2745	-.1661	.0085	.1011	.0892	-.0130	-.0589	-.1116	-.0864	-.0723	-.0593	-.0362	-.0061	.0409
72.000	.0050	-.2829	-.1737	.0853	.1707	.1597	-.1750	-.1590	-.2070	-.0619	-.0671	-.0350	.0023	.0322	.0690
90.000	.0148	-.2914	-.0826	.0657	.2144	.2477	-.0954	-.2556	-.0479	-.0497	-.0299	-.0025	.0235	.0498	
108.000	-.0070	-.2982	-.1307	.0120	.1148	.0567	-.2905	-.2327	-.2459	-.0653	-.0349	-.0124	.0012	.0113	.0253
126.000	.0078	-.3010	-.2257	-.0448	.0391	-.0103	-.1247	-.1366	-.1073	-.0515	-.0340	-.0157	-.0055	-.0025	.0099

MSFC 567(1A32F) T9 S3/2 S3/2 03 U5 EXTERNAL TANK (R82T06)

MACH (1) = .600 BETA (4) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
144.000	.0258	-.3034	-.2494	-.1896	-.0152	-.0269	-.0609	-.0788	-.0723	-.0497	-.0331	-.0167	-.0066	-.0034	.0053
162.000	.0493	-.3003	-.2619	-.2405	-.0431	-.0488	-.0808	-.0841	-.0655	-.0489	-.0349	-.0203	-.0084	-.0079	-.0035
180.000	.0781	-.2823	-.2535	-.2452	-.0440	-.0567	-.0635	-.0668	-.0603	-.0463	-.0384	-.0280	-.0170	-.0147	-.0313
198.000	.0939	-.2707	-.2538	-.2161	-.0680	-.0729	-.0584	-.0840	-.0730	-.0543	-.0418	-.0252	.0254	-.0152	-.0142
216.000	.1278	-.2453	-.2310	-.1648	-.0546	-.0746	-.0896	-.1115	-.0854	-.0561	-.0356	-.0164	-.0131	-.0066	.0060
234.000	.1608	-.2095	-.1862	-.1020	-.0050	-.0713	-.1822	-.1704	-.1157	-.0500	-.0303	-.0067	-.0025	-.0050	.0084
252.000	.1843	-.1771	-.1230	.0216	.0815	.0051	-.3519	-.2590	-.2345	-.0653	-.0349	-.0124	.0012	.0113	.0253
270.000	.1922	-.1629	-.0489	.0794	.1938	.2136	-.1313	-.2754	-.0032	-.0171	.0073	.0239	.0434	.0531	.0531
288.000	.2069	-.1547	-.0897	.0953	.1527	.1317	-.1948	-.1415	-.1524	-.0074	-.0126	.0154	.0384	.0727	.1229
306.000	.1849	-.1703	-.1327	-.0217	.0814	.0675	-.0153	-.0247	-.0448	-.0304	-.0047	-.0233	.0463	.0877	.1469
324.000	.1671	-.1864	-.1514	-.1117	.0618	.0924	.0939	.0791	-.0466	-.0500	.0005	.0267	.0558	.0979	.1533
342.000	.1374	-.2125	-.1733	-.1364	.0597	.1302	.1829	.1762	-.1314	-.0898	-.0059	.0225	.0587	.1008	.1507
360.000	.1034	-.2384	-.1771	-.1374	.0775	.1520	.2187	.2051	0.9990	-.5330	-.1573	-.0182	.0387	.0778	.1169
378.000									-.4284						

X/LT .9116 .9836

PHI	.000	.2229	-.5172	.1285	-.1064	.0875	-.0117	.0153	.0660	.0965	.0722	.1410	-.0229	.0738	.0294	.126	.000	.0312	.0524	.144	.000	.0162	.0224	.162	.000	-.0022	-.1013	.190	.000	-.0203	-.1480	.198	.000	-.0235	-.1343	2	6.000	-.0013	.0120	.234	.000	.0256	.0634	.252	.000	.0738	.0294	.270	.000	.1219	.0421	.288	.000	.1834	.2556	.306	.000	.0974	.2332	.324	.000	.2072	.1659	.342	.000	.2331	.0656	.360	.000	.2229	-.5172
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MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK (R82T06)

MACH (1) = .600 BETA (5) = 8.000 Q = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7095	.7752	.8439
PHI	.0552	-.2778	-.2088	-.1788	.0331	.1053	.1695	.1469	-.3201	-.0467	.0014	.0229	.0493	.0844	.0844
18.000	-.0075	-.3115	-.2361	-.0981	.0170	.0697	.0668	-.0141	-.6007	-.5958	-.2391	-.0493	-.0331	.0508	.0508
36.000	-.0560	-.3249	-.2134	-.0740	.0276	.0563	.0111	-.0626	-.2453	-.2369	-.2841	-.1269	-.0371	.0156	.0548
54.000	-.0886	-.3331	-.2302	.0101	.0846	.0849	-.0233	.0885	-.1473	-.1271	-.1291	-.1368	-.0594	.0049	.0539
72.000	-.0970	-.3340	-.2040	.0753	.1713	.1734	-.1529	.1632	-.2291	-.0927	-.0987	-.0607	-.0212	.0138	.0539
90.000	-.1224	-.3420	-.1653	.1043	.2204	.2606	-.0941	-.2435	-.0686	-.0756	-.0482	-.0482	-.0237	.0059	.0360
108.000	-.1103	-.3482	-.1684	.0244	.1222	.0816	-.2603	-.2174	-.2468	-.0678	-.0437	-.0192	-.0097	-.0004	.0138
126.000	-.0932	-.3566	-.2663	-.0307	.0348	.0050	-.1073	.1326	-.1118	-.0650	-.0455	-.0289	-.0238	-.0198	-.0117
144.000	-.0667	-.3628	-.2938	-.2224	-.0414	-.0401	-.0755	.0972	-.0959	-.0818	-.0551	-.0359	-.0292	-.0251	-.0154
162.000	-.0208	-.3496	-.3009	-.2800	-.0839	-.0635	-.1195	.0990	-.1003	-.0915	-.0767	-.0599	-.0691	-.0462	-.0417
180.000	.0391	-.3173	-.2881	-.2584	-.0892	-.1038	-.1099	.1122	-.1029	-.0923	-.0880	-.0712	-.0672	-.0649	-.0844
198.000	.0898	-.2817	-.2843	-.1782	-.1102	-.1133	-.0932	-.1182	-.1071	-.0866	-.0697	-.0555	-.0532	-.0473	-.0455
216.000	.1669	-.2245	-.2268	-.1613	-.0754	-.1044	-.0965	-.2027	-.1711	-.0411	-.0266	-.0047	-.0048	-.0089	.0188
234.000	.2316	-.1595	-.1709	-.0844	-.0164	-.0997	-.3661	-.2560	-.2142	-.0678	-.0437	-.0192	-.0097	-.0004	.0138
252.000	.2824	-.1067	-.0902	.0249	.0838	.0097	-.3661	-.2560	-.2142	-.0678	-.0437	-.0192	-.0097	-.0004	.0138
270.000	.3002	-.0833	-.0168	.1025	.2067	.2106	-.1301	-.2696	-.1064	.0338	.0095	.0259	.0373	.0423	.0360
288.000	.3134	-.0782	-.0428	.0753	.1696	.1359	-.1831	-.1069	-.1084	.0338	.0095	.0259	.0373	.0423	.0360
306.000	.2759	-.1037	-.0953	-.0037	.0915	.0704	.0008	.0163	.0084	.0142	.0315	.0549	.0787	.1225	.1884
324.000	.2248	-.1484	-.1392	-.0779	.0604	.0667	.1051	.1161	.0209	-.0223	.0334	.0550	.0668	.1307	.1923
342.000	.1516	-.2070	-.1810	-.1216	.0424	.1123	.1796	.2031	.0093	-.1069	.0154	.0372	.0630	.1037	.1589
360.000	.0552	-.2778	-.2086	-.1788	.0331	.1053	.1695	.1469	9.9990	-.3201	-.0467	.0014	.0229	.0493	.0844
378.000	.9116	.9836							-.6007						

X/LT .9116 .9836

PHI	.2202	-.5506	.1140	-.3033	.0959	.0162	.0109	.0964	.0766	.0590	.1274	-.0386	.0559	.0162	.0428	.0116	.0036	-.0183	.0415	-.1224	.1800	-.0724	-.1851	.1990	-.0513	-.1756	.2600	-.0172	-.0154	.0335	.0695	.0559	.0162	.0990	.0200	.2451	.3076	.1323	.2710	.3240	.2172
18.000	.2202	-.5506	.1140	-.3033	.0959	.0162	.0109	.0964	.0766	.0590	.1274	-.0386	.0559	.0162	.0428	.0116	.0036	-.0183	.0415	-.1224	.1800	-.0724	-.1851	.1990	-.0513	-.1756	.2600	-.0172	-.0154	.0335	.0695	.0559	.0162	.0990	.0200	.2451	.3076	.1323	.2710	.3240	.2172

MSFC 567(1A32F) TO 53/2 53/2 03 US EXTERNAL TANK

(R82106)

MACH (1) = .600 BETA (B) = 0.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9036

PHI
342.000 .8777 .1382
360.000 .2202 -.5506

MACH (2) = .600 BETA (1) = -0.000 Q = 7.3020 PTA = 28.011 RL = 8.2700 PSA = 13.039

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1950 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5025 .5732 .6408 .7085 .7762 .8439

PHI	.000	.1697	-.3429	-.3412	-.0147	.0684	.2082	.2997	.2795	-.8260	-.0590	.0287	.0568	.1029	.1648
18.000	.2313	-.2698	-.3178	.0094	.0810	.0810	.1784	.2737	.2973	.1433	-.4152	-.0684	.0536	.1047	.1652
35.000	.3079	-.2003	-.1903	-.0079	.1041	.1412	.1331	.1463	.1463	.0692	-.1767	-.0948	.0596	.1170	.1881
54.000	.3593	-.1530	-.1723	.0335	.1563	.1563	.1526	-.0109	-.1390	.0277	-.0916	-.0380	.0585	.1090	.1801
72.000	.4015	-.1169	-.0630	.1296	.2509	.2686	.2686	.0091	-.5923	-.0720	-.0599	-.0129	.0584	.1015	.1625
90.000	.3893	-.1294	-.0299	.1681	.3068	.3788	.3788	.2982	-.6240	-.1099	-.0149	.0324	.0514	.0879	.1243
108.000	.3717	-.1457	-.1392	.0982	.1828	.1480	.1145	-.8175	-.2157	-.0926	.0012	.0351	.0526	.0713	.0999
126.000	.3252	-.1890	-.1738	-.0183	.0629	.0005	.2212	-.6910	-.1482	-.0952	-.0365	.0043	.0317	.0521	.0822
144.000	.2591	-.2568	-.3114	-.0814	-.0187	-.0685	-.1382	-.4439	-.1474	-.0953	-.0589	-.0348	.0112	.0059	.0305
162.000	.1850	-.3211	-.4501	-.1341	-.0557	-.0850	-.0909	-.3033	-.1709	-.1127	-.0730	-.0510	-.0369	-.0172	.0322
180.000	.1058	-.3878	-.4426	-.3937	-.0334	-.0659	-.1377	-.2127	-.1878	-.1159	-.0768	-.0542	-.0416	-.0265	.0287
198.000	.0591	-.4375	-.4521	-.3322	.0275	-.0097	-.1854	-.1993	-.2111	-.1057	-.0700	-.0442	-.0457	-.0095	.0050
216.000	.0099	-.4769	-.4531	-.1330	.0764	.0538	-.0459	-.2521	-.1841	-.0916	-.0454	-.0207	-.0064	.0102	.0285
234.000	-.0225	-.4990	-.3138	.0143	.1598	.1235	-.0690	-.4709	-.1782	-.0784	-.0343	-.0112	.0009	.0181	.0375
252.000	-.0455	-.5121	-.0646	.1040	.2524	.2303	-.0344	-.9411	-.3196	-.0926	.0012	.0351	.0526	.0713	.0999
270.000	-.0758	-.5113	-.0099	.1547	.3571	.4396	.3122	-.8730	-.3196	-.0926	.0012	.0351	.0526	.0713	.0999
288.000	-.0350	-.5047	-.0461	.1298	.3081	.3400	.0844	-.7583	-.2464	-.2514	-.1513	-.0584	.0123	.0713	.1327
306.000	-.0231	-.4858	-.1312	.1039	.2260	.2464	.0916	-.2441	-.2441	-.3173	-.1580	-.0897	-.0144	.0717	.1337
324.000	.0160	-.4526	-.1568	.0189	.1544	.2131	.1456	-.0144	-.4327	-.5281	-.2417	-.0934	.0050	.0757	.1372
342.000	.0703	-.4138	-.3930	-.0110	.1278	.2090	.2201	.1089	-.6266	-.8556	-.8577	-.0360	.0485	.0924	.1519
360.000	.1697	-.3429	-.3412	-.0147	.0684	.2092	.2997	.2795	9.9990	-.8260	-.0590	.0287	.0568	.1029	.1648
378.000															

X/LT .9116 .9036

PHI
.000 .3632 .3668
18.000 .4371 .3677
35.000 .4204 .4958
54.000 .3022 .5067
72.000 .3924 .5108
90.000 .1546 .0230
108.000 .1534 .1297
126.000 .1105 .1807
144.000 .0467 .1276

ORIGINAL PAGE IS OF POOR QUALITY

MSFC 567(1A32F) TO 53/2 53:2 03 US EXTERNAL TANK

(R821061)

MACH (2) = .900 BETA (1) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9838

PHI	
162.000	.0072
180.000	-.0036
198.000	.0197
216.000	.0475
234.000	.0660
252.000	.1534
270.000	.1972
288.000	.1649
306.000	.1217
324.000	.1978
342.000	.2286
360.000	.3632

MACH (2) = .900 BETA (2) = -4.000 Q = 7.3620 PTA = 3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	
18.000	.1933
36.000	.2168
54.000	.2685
72.000	.2883
90.000	.2714
108.000	.2684
126.000	.2498
144.000	.2173
162.000	.1786
180.000	.1161
198.000	.0900
216.000	.0704
234.000	.0579
252.000	.0497
270.000	.0692
288.000	.0726
306.000	.1005
324.000	.1278
342.000	.1933
360.000	.378.000

MSFC 567(1A32F) T8 53/2 53/2 03 US EXTERNAL TANK (R82106)

MACH (2) = .900 BETA (2) = -.4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI .000 .3556 -.4041

18.000 .3802 .2981

36.000 .3564 .4212

54.000 .2626 .4199

72.000 .3189 .4212

90.000 .1949 .0755

108.000 .1478 .1579

126.000 .1002 .1743

144.000 .0667 .1015

162.000 .0490 -.0420

180.000 .0426 -.0603

198.000 .0560 -.0220

216.000 .0747 .0952

234.000 .0947 .1440

252.000 .1478 .1579

270.000 .1786 .0789

288.000 .1632 .1665

306.000 .1112 .1497

324.000 .1694 .1007

342.000 .2184 -.0419

360.000 .3556 -.4041

MACH (2) = .900 BETA (3) = .000 Q = 7.3620 PTA = 3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI .000 .1832 -.3292 -.2213 .0050 .1504 .2536 .3341 .3054

18.000 .1675 -.3310 -.1762 .0187 .1467 .2306 .2697 .2050

36.000 .1704 -.3245 .3200 .1141 .1697 .2105 .1630 .0364

54.000 .1987 -.3383 .2699 .1371 .2023 .2112 .0456 -.3093

72.000 .1617 -.3353 .0546 .1305 .2696 .3018 .0397 .8077

90.000 .1444 -.3475 -.0165 .1528 .3213 .4083 .3094 .8079

108.000 .1534 .3501 .1600 .0224 .1298 .0835 .1194 .5623

126.000 .1504 .3614 .4059 .0234 .0696 .0351 .0597 .5158

144.000 .1566 .3549 .4058 .1835 .0557 .0134 .0785 .2139

162.000 .1550 .3565 .4053 .2850 .0552 .0041 .0794 .2003

180.000 .1566 .3549 .4058 .1835 .0557 .0134 .0785 .2139

216.000 .1504 .3614 .4059 .0234 .0696 .0351 .0597 .5158

234.000 .1532 .3501 .1600 .0224 .1298 .0835 .1194 .5623

252.000 .1504 .3443 .0525 .0955 .2209 .2008 .0648 .9339

270.000 .1444 .3475 .0165 .1528 .3213 .4083 .3094 .8079

MSFC 567(1A32F) 19 53/2 53/2 03 US EXTERNAL TANK (R82106)

MACH (2) = .900 BETA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0737	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6403	.7085	.7762	.8439
PHI															
250.00	.1617	-.3353	-.0546	.1305	.2686	.3018	.0397	-.8077	-.1581	-.0818	-.0727	-.0316	.0215	.0760	.1346
306.00	.1987	-.3363	-.2699	.1371	.2023	.2112	.0456	-.3053	-.1293	-.1059	-.0795	-.0186	.0265	.0808	.1377
324.00	.1704	-.3245	-.3200	.1141	.1697	.2105	.1630	.0384	-.1680	-.1136	-.1091	-.0396	.0093	.0644	.1232
342.00	.1675	-.3310	-.1782	.0157	.1467	.2306	.2697	.2050	-.2573	-.2217	-.1774	-.0933	.0207	.0972	.1458
360.00	.1832	-.3292	-.2213	.0050	.1504	.2536	.3341	.3094	9.9990	-.9335	-.2918	-.0698	.0448	.1053	.1503
379.00									-.2573						

X/LT .9116 .9836

PHI

.000	.1837	-.1167
18.000	.1692	.0540
36.000	.1694	.1471
54.000	.1214	.2452
72.000	.1911	.2731
90.000	.1876	.1336
108.000	.1327	.1445
126.000	.1820	.1820
144.000	.0803	.1258
162.000	.0629	.0154
180.000	.0546	-.0476
198.000	.0629	.0154
216.000	.0803	.1258
234.000	.1023	.1820
252.000	.1327	.1445
270.000	.1876	.1336
288.000	.1911	.2731
306.000	.1214	.2452
324.000	.1694	.1471
342.000	.1692	.0540
360.000	.1837	-.1167

MACH (2) = .900 BETA (4) = 4.000 0 = 7.3820 PTA = 22.011 RL = 6.2700 PSA = 13.039

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0737	.1950	.2263	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
000	.1719	-.3370	-.3567	.0325	.1474	.2455	.3298	.2583	-.7739	-.2019	-.0352	.0590	.1251	.1912	
18 000	.1278	-.3633	-.1824	-.0001	.1401	.2276	.2551	.1615	-.4403	-.4292	-.1110	.0192	.0572	.1552	
36 000	.1005	-.3609	-.1624	.0521	.1656	.2130	.1578	.0257	-.2982	-.1783	-.1624	-.0217	.0734	.1360	
54 000	.0726	-.4037	-.1913	.1278	.2150	.2291	.0724	-.2941	-.1718	-.1375	-.1145	-.0578	-.0071	.0655	
72 000	.0692	-.4159	-.0181	.1541	.2922	.3227	.0663	-.8511	-.1767	-.1264	-.1139	-.0455	.0157	.0745	
90.000	0437	-.4244	-.0031	.1572	.3387	.4254	.3150	-.8157	-.1304	-.0548	-.0228	.0212	.0640	.1029	

TABLULATED SOURCE DATA, MSFC TWT 567 (1A32F)

DATE 05 SEP 75

(R82106)

MSFC 567(1A32F) T9 S3/2 03 US EXTERNAL TANK

MACH (2) = .900 BETA (4) = 4.000

SECTION (1) EXTERNAL TANK

DEPENDENT VARIABLE CP

X/LT	.0757	.1250	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5095	.5732	.6408	.7085	.7762	.8439
PHI															
109.000	.0579	-.4208	-.0425	.0980	.2309	.2160	-.0491	-.9223	-.2434	-.0902	-.0098	.6077	.0283	.0512	.0753
126.000	.0704	-.4224	-.2371	.0483	.1452	.1024	-.0937	-.5164	-.1392	-.0743	-.0208	-.0031	.0121	.0292	.0512
144.000	.0900	-.4099	-.4357	-.0302	.0859	.0521	-.0396	-.2770	-.1194	-.0686	-.0218	.0010	.0162	.0328	.0527
162.000	.1161	-.3868	-.4188	-.2456	.0325	.0087	-.1177	-.2052	-.1293	-.0654	-.0318	-.0093	.0036	.0235	.0403
180.000	.1494	-.3562	-.4251	-.3622	.0436	-.0128	-.0439	-.2073	-.1232	-.0633	-.0297	-.0099	.0057	.0233	.0218
199.000	.1786	-.3319	-.4209	-.2495	.0181	-.0209	-.0769	-.2557	-.1279	-.0756	-.0370	-.0104	.0016	.0224	.0391
216.000	.2173	-.2978	-.3173	-.0541	.0343	-.0001	-.0434	-.3656	-.1161	-.0789	-.0343	-.0071	.0070	.0258	.0499
234.000	.2498	-.2615	.2140	.0254	.0979	.0489	-.1605	-.6200	-.1410	-.0850	-.0349	.0000	.0221	.0456	.0713
252.000	.2684	-.2425	-.0718	.1001	.2023	.1741	-.0823	-.6748	-.2287	-.0902	-.0098	.0077	.0283	.0512	.0753
270.000	.2714	-.2344	-.0242	.1563	.3108	.3911	.3095	-.6469	-.1150	-.0496	-.0092	.0378	.0899	.1357	.1813
288.000	.2683	-.2200	-.0462	.1541	.2582	.2854	.0254	-.7788	-.1023	-.0669	-.0334	.0113	.0609	.1254	.2143
306.000	.2665	-.2379	-.1926	.0681	.1802	.1827	.0204	-.2804	-.0447	-.1039	-.0515	.0185	.0697	.1366	.2333
324.000	.2495	-.2558	-.2818	.0781	.1390	.1788	.1481	-.0839	-.0438	-.1423	-.0543	.0253	.0823	.1520	.2467
342.000	.2169	-.2698	-.3507	.0861	.1304	.2188	.2817	-.2552	-.0338	-.2175	-.0517	.0282	.0875	.1572	.2347
363.000	.1719	-.3370	-.3567	.0325	.1474	.2455	.3598	-.2983	9.9590	-.7739	-.2019	-.0362	.0590	.1251	.1912
378.000									-.4403						

X/LT .9116 .9836

PHI	.000	.3293	.4057	.0419	.1654	.1007	.1497	.1632	.1685	.1786	.1788	.1148	.0847	.1440	.0560	.0220	.0458	.0581	.0420	.0657	.1015	.1743	.1278	.1148	.1949	.0755	.3189	.4212	.2626	.4199	.3564	.4212	.3402	.2981	.3293	.4057																
18.000																																																				
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(R82T06)

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK

MACH (2) = .900 BETA (9) = 8.000 Q = 7.3620 PTA = 22.011 RL = 6.2700 PSA = 13.039

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

K/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.1426	-.3585	-.3744	-.1159	.1093	.2182	.3108	.2812	-.6266	-.8009	-.0664	-.0385	.0757	-.1135	.1831
18 000	.0703	-.4136	-.3830	-.0110	.1278	.2090	.2201	.1089	-.6266	-.8556	-.2577	-.0360	.0486	-.0924	.1518
36 000	.0160	-.4526	-.1586	.0189	.1944	.2131	.1456	-.0144	-.4327	-.5281	-.2417	-.0934	.0050	-.0767	.1372
54 000	-.0231	-.4856	-.1312	.1039	.2260	.2464	.0916	-.2441	-.2317	-.3173	-.1560	-.0897	-.0144	-.0717	.1337
72 000	-.0350	-.5047	-.0461	.1635	.3061	.3400	.0844	-.7583	-.2464	-.2514	-.1513	-.0584	.0123	-.0713	.1337
90 000	-.0576	-.5113	-.0095	.1587	.3571	.4356	.3122	-.8730	-.1941	-.1941	-.0925	-.0411	.0012	-.0534	.1659
108 000	-.0495	-.5121	-.0546	.1040	.2524	.2303	-.0344	-.9411	-.3196	-.0768	-.0202	.0006	.0165	.0373	.0505
126 000	-.0225	-.4890	-.3138	.0143	.1998	.1235	-.0690	-.4709	-.1782	-.0784	-.0343	-.0112	.0009	.0181	.0376
144 000	.0099	-.4789	.4231	-.1330	.0784	.0538	-.0499	-.2521	-.1841	-.6316	-.0454	-.0207	-.0064	.0102	.0286
162 000	.0291	-.4375	.4521	-.3322	.0275	.0097	-.1854	-.1993	-.2111	-.1057	-.0700	-.0442	-.0457	-.0096	.0050
180 000	.1208	-.3824	.4484	-.4174	-.0098	-.0670	-.1444	-.2407	-.2147	-.1188	-.0810	-.0559	-.0437	-.0291	-.0342
198 000	.1890	-.3211	.4501	-.1341	-.0957	-.0850	-.0809	-.3033	-.1709	-.1127	-.0730	-.0510	-.0369	-.0172	.0000
216 000	.2581	-.2588	.3114	-.0814	-.0187	-.0655	-.1382	-.4439	-.1474	-.0953	-.0589	-.0348	-.0112	.0069	.0000
234 000	.3292	-.1890	.1738	-.0183	.0829	.0005	-.2212	.6910	-.1482	-.0952	-.0365	.0043	.0317	.0521	.0812
252 000	.3717	-.1467	.1392	.0962	.1822	.1460	-.1145	-.8175	-.2157	-.0769	-.0202	.0006	.0165	.0373	.0605
270 000	.3893	-.1254	.0299	.1661	.3068	.3788	.2982	-.6240	-.2157	-.1099	-.0149	.0324	.0614	.0979	.1243
288 000	.4015	-.1169	.0630	.1635	.2509	.2686	.0091	-.5923	-.0720	-.0569	-.0129	.0584	.1015	.1605	.2078
306 000	.3593	-.1530	.1723	.0535	.1963	.1526	-.0109	-.1390	.0277	-.0916	-.0380	.0585	.1090	.1801	.2405
324 000	.3079	-.2003	.1903	-.0079	.1041	.1412	.1331	.1463	.0692	-.1767	-.0548	.0596	.1170	.1891	.2493
342 000	.2313	-.2698	.3176	.0094	.0816	.1784	.2737	.2973	.1433	-.4152	-.0684	.0536	.1047	.1652	.2255
360 000	.1426	-.3585	-.3744	-.1159	.1093	.2182	.3108	.2812	.9.9990	-.8009	-.0664	.0385	.0757	-.1135	.1831
378 000	.9.118	.9.9938													

K/LT .9.118 .9.9938

PHI	.3583	-.3574
18 000	.2286	-.2978
36 000	.1978	.1808
54 000	.1217	.2252
72 000	.1649	.1825
90 000	.1972	.0818
108 000	.1220	.1090
126 000	.0660	.1167
144 000	.0475	.0476
162 000	.0197	-.0576
180 000	-.0083	-.1166
198 000	.0072	-.0822
216 000	.0467	.1276
234 000	.1105	.1807
252 000	.1220	.1090
270 000	.1549	-.0830
288 000	.3924	.5108
306 000	.3022	.5057
324 000	.4204	.4958

18B2T061

MSFC 567(1A32F) T9 53/2 53/2 03 US EXTERNAL TANK

MACH (2) = .900 BETA (5) = 8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .4371 .3877
380.000 .3583 -.3874

MACH (3) = 1.050 BETA (1) = -8.000 Q = 8.453% PTA = 22.009 RL = 6.5780 PSA = 10.958

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7752	.8439
Phi	.000	.3428	-.1475	-.4152	-.2333	.2372	.3566	.4437	.4220	-.6008	-.4616	-.1209	-.0154	.1118	.2174
18.000	.3955	-.0883	-.4002	-.2597	.2495	.2495	.3228	.4105	.4147	.3048	-.2878	-.2599	.0538	.2081	.3430
36.000	.4597	-.0317	-.3653	-.1123	.2645	.2645	.2882	.2685	.2159	.2149	-.0540	-.0600	.0847	.2571	.4130
54.000	.5074	.0136	-.2752	-.0493	.3052	.3052	.3066	.1551	-.1719	.1697	.0292	.0091	-.1415	.2536	.4164
72.000	.5451	.0461	-.2162	.1504	.4031	.4031	.4213	.2764	-.6006	.0382	-.0595	.0280	-.1017	.0752	.3957
90.000	.5336	.0388	-.2362	.2203	.4536	.4536	.5284	.4805	-.6185	-.1226	-.0718	-.0571	.2637	.1699	.2213
108.000	.5217	.0269	-.2573	.1325	.3445	.3445	.3307	.1220	-.7334	-.1618	-.0099	.0137	-.0009	.2451	.1525
126.000	.4908	-.0099	-.3640	.0006	.2661	.2661	.1918	.0122	-.3969	-.1262	-.0025	-.0079	.0020	.0385	.1341
144.000	.4240	-.0651	-.3977	-.2370	.1571	.1571	.1280	.0523	-.1943	-.1435	-.0281	-.0445	-.0172	.0250	.1044
162.000	.3532	-.1249	-.4145	-.3575	.1018	.1018	.1058	.1218	-.0937	-.2840	-.0769	-.0795	-.0285	-.0449	.0788
180.000	.2696	-.1733	-.3555	-.3233	.0668	.0668	.1228	.0710	-.0213	-.2201	-.1270	-.0669	-.0335	-.0198	.0739
198.000	.2456	-.2177	-.3252	-.3171	.0021	.0021	.1557	.0219	.0201	-.2042	-.1706	-.0372	-.0335	-.0531	.0682
216.000	.1972	-.2577	-.3348	-.2556	.0342	.0342	.1785	.1221	-.0185	-.2008	-.1712	-.0230	-.0180	.0252	.1059
234.000	.1694	-.2773	-.3386	-.1975	.0898	.0898	.2296	.1326	-.1716	-.1863	-.1047	-.0230	-.0149	.0174	.1729
252.000	.1455	-.2922	-.2053	-.0379	.1690	.1690	.4036	.1929	-.6208	-.3267	-.0099	.0137	-.0009	.0451	.2229
270.000	.1321	-.2977	-.1580	-.0355	.3607	.3607	.5816	.4852	-.5755	-.1735	-.1350	-.1245	-.0162	.2159	.2457
288.000	.1550	-.2902	-.2268	.1504	.3331	.3331	.4911	.2910	.3313	-.0713	-.1687	-.1659	.1340	.0211	.1531
306.000	.1615	-.2789	-.2708	-.1038	.2814	.2814	.3785	.2779	.0613	-.0339	.3205	-.1842	-.1195	.0221	.1482
324.000	.1983	-.2487	-.2881	-.0420	.1659	.1659	.3431	.3197	.1976	-.1832	-.4798	-.2592	.1432	.0105	.2473
342.000	.2449	-.2157	-.3135	-.1773	.1377	.1377	.3455	.3732	.2767	-.3618	-.6114	-.3355	-.1550	-.0033	.1420
360.000	.3428	-.1475	-.4152	-.2333	.2372	.2372	.3556	.4437	.4220	9.9990	-.6159	-.1259	-.0124	.1119	.2134
378.000	.9116	.9836								3049					

X/LT	.9116	.9836	
Phi	.000	.4342	-.2919
18.000	.5588	.5272	
36.000	.5578	.6550	
54.000	.4675	.6563	
72.000	.5434	.6703	
90.000	.2732	.4445	
108.000	.2451	.4412	
126.000	.2462	.3029	
144.000	.1929	.2475	

ORIGINAL PAGE IS OF POOR QUALITY

MSFC 967(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK

(R82T06)

MACH (3) = 1.050 BETA (1) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI	
162.000	.1532 .0703
180.000	.1442 .0576
198.000	.1733 .1141
216.000	.1964 .1987
234.000	.2175 .2746
252.000	.2950 .2512
270.000	.3328 .1946
288.000	.2891 .2640
306.000	.2690 .3056
324.000	.3024 .2357
342.000	.2862 -.2929
360.000	.4342 -.2919

MACH (3) = 1.050 BETA (2) = -4.000 Q = 6.4534 PTA = 22.008 R = 6.5780 PSA = 10.958

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI														
.000	.3543	-.1413	-.3908	-.0863	.2364	.3686	.4732	.4441	-.5870	-.1377	-.0772	.0649	.2202	.3256
18.000	.3759	-.1144	-.3565	-.2002	.2926	.3766	.4319	.3901	.1355	-.3740	-.0830	-.0592	.2532	.3721
36.000	.4073	-.0824	-.3398	-.1693	.3163	.3455	.3156	.2111	.1023	-.1769	-.0829	-.0895	.0772	.3353
54.000	.4197	-.0679	-.3381	-.0535	.3552	.3492	.2062	-.1212	-.0938	-.1071	-.0654	-.1017	.0564	.3749
72.000	.4416	-.0456	-.3482	.0094	.4270	.4489	.2277	-.6167	.0110	-.0573	-.0358	-.0849	.0525	.3521
90.000	.4275	-.0587	-.3391	.1287	.4759	.4971	.4800	-.6582	-.1014	-.0377	-.0244	.0595	.1853	.2574
108.000	.4246	-.0605	-.3505	.0320	.3762	.3602	.1431	.7393	-.2017	-.0577	-.0056	.0041	.0543	.2247
126.000	.4093	-.0602	-.3927	-.1605	.2594	.2475	.0679	-.3303	-.1613	-.0404	-.0181	.0091	.0507	.2101
144.000	.3816	-.1057	-.4032	-.3032	.1945	.2059	.0948	-.1101	-.2200	-.0733	-.0189	.0119	.0394	.1873
162.000	.3485	-.1322	-.3475	-.3124	.1488	.1855	.1532	-.0162	-.2551	-.1139	-.0107	.0151	.0379	.1756
180.000	.3174	-.1546	-.3136	-.3045	.0907	.1872	.1313	.0284	-.1963	-.1496	.0024	.0150	.0353	.1608
198.000	.2985	-.1735	-.3089	-.2981	.0731	.2109	.1022	.0400	-.2064	-.1812	.0029	.0123	.0142	.1771
216.000	.2720	-.1975	-.3256	-.2840	.1077	.2403	.1501	-.0153	-.2064	-.1733	.0020	.0128	.0322	.1831
234.000	.2572	-.2084	-.3542	-.1348	.1944	.2848	.1399	-.2049	-.1772	-.1225	-.0239	.0287	.0379	.1926
252.000	.2414	-.2145	-.2433	.0032	.2543	.4139	.1911	-.6694	-.2951	-.0577	-.0056	.0041	.0543	.2247
270.000	.2295	-.2223	-.1593	.0283	.4049	.5913	.4950	.6211	-.1266	-.0541	-.0713	.0124	.0572	.2474
288.000	.2511	-.2115	-.2544	.0994	.3981	.4989	.2845	-.5112	-.0244	-.0933	-.1108	.0332	.0745	.2655
306.000	.2545	-.2040	-.3044	-.0908	.3230	.4028	.2783	-.0158	.0027	-.2955	-.0970	.0355	.0221	.2597
324.000	.2777	-.1878	-.3396	-.0841	.2606	.3784	.3434	.2079	-.1090	-.3900	-.1074	.0162	.0123	.2479
342.000	.3042	-.1686	-.3302	-.0517	.2047	.3681	.4152	.3355	-.2103	-.5170	-.1632	-.1481	.0322	.2355
360.000	.3543	-.1413	-.3908	-.0863	.2364	.3686	.4732	.4441	9.9990	-.5870	-.1377	-.0772	.0543	.2256
378.000									1.355					

MSFC 567(1A32F) 19 53/2 53/2 03 US EXTERNAL TANK

(R82706)

MACH (3) = 1.050 BETA (2) = -4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9118 .0036

Phi	.000	.5012	-.2170
18.000	.5324	.4606	
36.000	.5104	.5608	
54.000	.4344	.5704	
72.000	.4741	.5600	
90.000	.3105	.1759	
108.000	.2804	.2941	
126.000	.2503	.2833	
144.000	.2202	.2339	
162.000	.2034	.1266	
180.000	.1996	.1208	
196.000	.2104	.1532	
216.000	.2223	.2452	
234.000	.2400	.3196	
252.000	.2604	.2941	
270.000	.3383	.2405	
288.000	.3067	.2601	
306.000	.2644	.3205	
324.000	.3236	.2981	
342.000	.3744	.0684	
360.000	.5012	-.2170	

MACH (3) = 1.050 BETA (3) = .000 Q = 8.4534 PTA = 22.009 RL = 6.5780 PSA = 10.568

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5095	.5732	.6408	.7085	.7762	.8439
Phi	.000	.3447	-.1494	-.2048	-.1281	.2091	.3968	.4703	.4462	-.7369	-.2300	-.2047	-.0120	.0746	.2618
18.000	.3337	-.1443	-.4020	-.0625	.2577	.3695	.4232	.3534	-.0321	-.4910	-.0541	-.1651	-.0057	.0700	.2665
36.000	.3314	-.1441	-.3235	-.1000	.3136	.3290	.2009	-.0037	-.3604	-.0196	-.1396	-.2239	-.0732	.2743	.2743
54.000	.3284	-.1485	-.2902	-.0602	.3569	.3652	.2427	-.0797	.0350	-.2630	-.0201	-.1178	.0362	.0658	.2623
72.000	.3293	-.1458	-.3336	.0532	.4184	.4748	.2463	-.5608	-.0165	-.1660	-.0150	-.0945	.0179	.0745	.2708
90.000	.3148	-.1549	-.3466	.0669	.4805	.5698	.4845	-.6366	-.1078	-.0169	-.0352	.0154	.0545	.2455	.2455
108.000	.3238	-.1518	-.3975	.0041	.3652	.2857	.1139	-.7178	-.2540	-.1199	-.0264	-.0651	.0243	.1369	.2734
126.000	.3275	-.1518	-.4554	-.0915	.2545	.2857	.1139	-.2675	-.1898	-.0949	-.0137	.0348	.0230	.0151	.1951
144.000	.3293	-.1535	-.3947	-.3053	.2188	.2505	.1347	-.0508	-.2544	-.1274	.0031	.0198	.0202	.0268	.1211
162.000	.3279	-.1559	-.3681	-.3071	.1393	.2229	.1451	.0238	-.2386	-.1729	.0050	.0195	.0260	.0295	.1289
180.000	.3323	-.1502	-.3151	-.3235	.0874	.2134	.1511	.0412	-.1953	-.1809	.0050	.0181	.0245	.0243	.0555
198.000	.3279	-.1559	-.3681	-.3071	.1393	.2229	.1451	.0238	-.2386	-.1729	.0050	.0195	.0260	.0295	.1289
216.000	.3293	-.1535	-.3647	-.3063	.2188	.2505	.1347	-.0508	-.2544	-.1274	.0031	.0198	.0202	.0268	.1211
234.000	.3275	-.1518	-.4554	-.0915	.2545	.2857	.1139	-.2675	-.1898	-.0949	-.0137	.0348	.0230	.0151	.1951
252.000	.3238	-.1492	-.3975	.0041	.3652	.2857	.1139	-.2675	-.1898	-.0949	-.0137	.0348	.0230	.0151	.1951
270.000	.3148	-.1549	-.3466	.0669	.4805	.5698	.4845	-.6366	-.1078	-.0169	-.0352	.0154	.0545	.2455	.2455

TABLATED SOURCE DATA, MSFC TNT 567 (1A327)

DATE 05 SEP 75

19821361

MSFC 587(1A327) TO 53/2 53/2 J3 US EXTERNAL TANK

MACH (3) = 1.050 BETA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
288.000	.3293	-.1458	-.3336	.0532	.4184	.4748	.2463	-.5808	-.0165	-.1650	-.0150	-.0945	.0178	.1715	.2708
306.000	.3284	-.1473	-.2902	-.0602	.3569	.3892	.2427	-.0797	.0350	-.2630	-.0201	-.1178	.0369	.1858	.2823
324.000	.3314	-.1441	-.3235	-.1000	.3136	.3726	.3290	.2008	-.0037	-.3604	-.0196	-.1396	.0238	.1732	.2740
342.000	.3337	-.1443	-.4020	-.0623	.2577	.3855	.4232	.3534	-.0321	-.4910	-.0541	-.1651	-.0287	.1733	.2865
360.000	.3447	-.1484	-.2648	-.1281	.2091	.3988	.4703	.4462	9.9590	-.7359	-.2300	-.2047	-.0120	.1746	.2918
378.000									-.0321						

X/LT .9116 .9836

PHI

.000	.3593	.0090
18.000	.3427	.2379
35.000	.3381	.3317
54.000	.2979	.4103
72.000	.3392	.4284
90.000	.3176	.2823
108.000	.2712	.2809
126.000	.2472	.3230
144.000	.2305	.2828
162.000	.2144	.1942
180.000	.2074	.1270
198.000	.2144	.1942
216.000	.2305	.2828
234.000	.2472	.3230
252.000	.2712	.2809
270.000	.3176	.2823
288.000	.3392	.4284
306.000	.2979	.4103
324.000	.3381	.3317
342.000	.3427	.2379
360.000	.3593	.0090

MACH (3) = 1.050 BETA (4) = .000 0 • 8.4534 PTA • 22.009 RL • 6.578C PSA • 10.358

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
000	.3395	-.1453	-.2529	-.1589	.1690	.3911	.4709	.4506	-.5794	-.1208	-.0927	.2515	.2138	.2138	.324
18.000	.3042	-.1686	-.3302	-.0617	.2047	.3981	.4152	.3255	-.2103	-.5170	-.1632	-.1146	.2292	.1872	.2956
36.000	.2777	-.1878	-.3396	-.0841	.2606	.3784	.3404	.2079	-.1090	-.3900	-.1074	-.1480	.0093	.0093	.2729
54.000	.2545	-.2040	-.3044	-.0908	.3231	.4028	.2783	.0158	.0027	-.2595	-.0970	-.1175	.3389	.1831	.2597
72.000	.2511	-.2115	-.2544	.0031	.3981	.4499	.2645	.5112	-.2244	-.1375	-.0233	.1113	.2272	.1445	.3112
90.000	.2296	-.2223	-.1993	.0283	.4049	.5313	.4950	.5211	-.1255	-.0541	-.0713	.1164	.2164	.1572	.2444

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK

DATE 05 SEP 75

MACH (31) = 1.050 BETA (4) = 4.000

SECTION (1) EXTERNAL TANK	DEPENDENT VARIABLE CP													
X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6425	.7155	.7952
PHI	.2414	-.2145	-.2443	.0032	.2543	.4139	.1911	-.6884	-.2951	-.1539	-.0171	.0332	.0336	.1533
103.000	.2572	-.2084	-.3142	-.1348	.1944	.2848	.1399	-.2049	-.1772	-.1225	-.0335	.0336	.0336	.1533
125.000	.2720	-.1975	-.3256	-.2940	.1877	.2403	.1501	-.0153	-.2064	-.1733	.0020	.0336	.0336	.1533
147.000	.2955	-.1735	-.3089	-.2991	.0731	.2109	.1022	.0400	-.2064	-.1812	.0029	.0336	.0336	.1533
151.000	.3279	-.1482	-.2972	-.3050	.0597	.2000	.1417	.0351	-.1954	-.1541	.0310	.0336	.0336	.1533
155.000	.3495	-.1322	-.3475	-.3124	.1495	.1855	.1532	-.0162	-.2551	-.1139	.0310	.0336	.0336	.1533
215.000	.3816	-.1057	-.4032	-.3132	.1945	.2299	.0943	.101	-.2200	-.0733	.0310	.0336	.0336	.1533
234.000	.4093	-.0792	-.3727	-.1605	.2594	.2475	.0679	.3303	-.1613	-.0404	.0310	.0336	.0336	.1533
252.000	.4245	-.4609	-.3535	.0320	.3762	.3502	.1431	.7333	-.2017	-.1533	.0310	.0336	.0336	.1533
270.000	.4275	-.0587	-.3391	.1287	.4759	.5471	.4950	.6992	-.1014	-.0377	.0310	.0336	.0336	.1533
289.000	.4416	-.0455	-.3482	.024	.4270	.4499	.2277	.6167	.0110	-.0573	.0310	.0336	.0336	.1533
315.000	.4197	-.0579	-.3391	-.0535	.5562	.3432	.2082	.1412	.0939	-.1071	.0310	.0336	.0336	.1533
334.000	.4073	-.0924	-.3396	-.1533	.3163	.3455	.3159	.2111	.1023	-.1769	.0310	.0336	.0336	.1533
342.000	.3759	-.1144	-.3565	-.2002	.2935	.3756	.4319	.2901	.1355	-.2740	.0310	.0336	.0336	.1533
360.000	.3395	-.1453	-.2529	-.1589	.1690	.3911	.4709	.4506	.94990	-.5794	-.1209	.0310	.0336	.1533
379.000									-.2103					

X/LT 9116 .9835

PHI	PHI
.600	.4886
18.000	.3744
35.000	.2981
54.000	.2835
72.000	.2881
90.000	.3183
109.000	.3557
128.000	.2400
147.000	.2223
162.000	.2104
180.000	.2004
200.000	.2034
216.000	.2339
234.000	.2633
252.000	.2673
270.000	.3105
289.000	.4741
308.000	.4344
324.000	.5104
342.000	.5334
360.000	.4899

ORIGINAL PAGE IS OF HIGH QUALITY

(R82T06)

MSFC 567(1A32F), T9 S3/2 S3/2 03 US EXTERNAL TANK

MACH (3) = 1.050 BETA (5) = 0.000 Q = 0.4534 PTA = 22.019 RL = 6.5790 PSA = 10.353

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE C

X/LT	.0757	.1550	.2203	.2347	.2707	.3130	.3489	.3816	.4378	.5055	.5732	.6418	.7085	.7762	.8435
PHI	.3044	-.1737	-.2620	-.2606	.1480	.3536	.4378	.4165	-.6190	-.4626	-.1585	-.0186	.1160	.2471	.2294
18.000	.2449	-.2157	-.3135	-.1773	.1377	.3455	.3732	.2767	-.3618	-.3255	-.1550	-.0003	.1457	.2473	.2473
36.000	.1983	-.2487	-.2681	-.0420	.1658	.3431	.3197	.1976	-.1832	-.4798	-.2282	.1432	.1482	.2448	.2448
54.000	.1615	-.2789	-.2708	-.1038	.2514	.3785	.2779	.0613	-.0339	-.3205	-.1842	.1195	.0201	.1482	.2457
72.000	.1250	-.2902	-.2268	-.0816	.3331	.4811	.2910	-.3313	-.0713	-.1687	-.1869	-.1340	.0211	.1591	.2192
90.000	.0821	-.2977	-.1980	-.0355	.3607	.5816	.4862	-.5766	-.1735	-.1350	-.1245	-.0162	.1228	.1371	.1934
108.000	.0415	-.2922	-.2053	-.0379	.1690	.4036	.1995	-.6208	-.3267	-.1611	-.0275	-.0153	.0347	.1161	.1729
126.000	.1654	-.2773	-.3388	-.1975	.0898	.2296	.1326	-.1716	-.1863	-.1047	-.0230	-.0180	.0952	.1068	.1599
144.000	.1973	-.2577	-.3348	-.2556	.0342	.1785	.1221	-.0185	-.2008	-.1712	-.0230	-.0180	.0952	.1068	.1599
162.000	.2456	-.2177	-.3252	-.3171	.0021	.1557	.0219	.0201	-.2042	-.1706	-.0372	-.0335	-.0531	.0882	.1418
180.000	.3003	-.1710	-.3333	-.3261	-.0114	.1229	.0667	-.0289	-.2309	-.1339	-.0751	-.0503	-.0522	.0680	.1051
198.000	.3532	-.1249	-.4145	-.3575	.1016	.1058	.1218	-.0937	-.2640	-.0769	-.0796	-.0285	-.0149	.0789	.1277
216.000	.4240	-.0651	-.3977	-.2370	.1571	.1280	.0523	-.1943	-.1435	-.0281	-.0445	-.0172	.0050	.1044	.1606
234.000	.4806	-.0099	-.3640	.0008	.2261	.1919	.0122	-.3969	-.1262	-.0026	-.0079	-.0020	.0365	.1341	.1973
252.000	.5217	.0269	-.2573	.1325	.3445	.3307	.1220	-.7334	-.1618	-.1611	-.0276	-.0153	.0347	.1371	.1934
270.000	.5338	.0388	-.2352	.2203	.4954	.5284	.4805	-.6185	-.0382	.0585	.0280	-.0107	.0762	.2416	.3957
288.000	.5481	.0461	-.2182	-.0616	.4031	.4213	.2064	-.6006	.0382	.0585	.0280	-.0107	.0762	.2416	.3957
306.000	.5074	.0136	-.2752	-.0493	.3052	.3088	.1981	-.1719	.1897	.0292	.0091	-.1415	.0836	.2599	.4184
324.000	.4587	-.0317	-.3653	-.1123	.2845	.2882	.2688	.2159	.2149	-.0540	-.0800	-.1652	.0847	.2571	.4130
342.000	.3955	-.0883	-.4002	-.2597	.2485	.3228	.4105	.4147	.3049	-.2878	-.2493	-.2589	.0536	.2081	.3430
360.000	.3044	-.1737	-.2820	-.2606	.1480	.3536	.4378	.4165	-.6190	-.4626	-.1585	-.0186	.1160	.2471	.2294
378.000	.9116	.9838													

X/LT	.9116	.9838													
PHI	.4225	-.2921													
18.000	.2862	-.2929													
36.000	.3024	.2357													
54.000	.2690	.3056													
72.000	.2891	.2640													
90.000	.3328	.1946													
108.000	.2742	.2737													
126.000	.2175	.2748													
144.000	.1964	.1987													
162.000	.1733	.1141													
180.000	.1461	.0586													
198.000	.1532	.0703													
216.000	.1938	.2476													
234.000	.2462	.3029													
252.000	.2742	.2737													
270.000	.2733	.0946													
288.000	.5434	.6703													
306.000	.4676	.6663													
324.000	.5678	.6650													

C.4

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK

(R82T06)

MACH (3) = 1.050 BETA (5) = 0.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .5588 .8272
360.000 .4225 -.2021

MACH (4) = 1.250 BETA (1) = .9.000 0 = 9.2830 PTA = 22.009 RL = 6.6880 PSA = 0.5280

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.4218	-.0417	-.3178	-.2511	.1661	.4724	.5435	-.5026	-.2815	-.1536	-.1526	-.2315	.2127
18.000	.4699	.0117	-.2831	-.2737	-.2284	.1519	.4249	.5025	.4014	-.3282	-.0861	-.0729	.0074	.3057
36.000	.5323	.0650	-.2450	-.2315	-.1725	.1517	.2906	.2894	.2686	-.1539	.0391	-.0282	.0317	.3185
54.000	.5748	.1027	-.2137	-.2084	-.0518	.2438	.1709	-.0935	.2353	.0259	.0032	-.0334	.0341	.3110
72.000	.6171	.1357	-.1932	-.1763	.1911	.4296	.2986	-.4791	-.0793	.0983	.0767	.0454	-.0076	.2753
90.000	.6043	.1313	-.1692	-.1673	.3122	.5678	.6200	-.5656	-.3204	-.0542	-.0655	-.0065	.0155	.1391
108.000	.5937	.1202	-.1984	-.1827	.2050	.3744	.2606	-.5168	-.1057	-.0512	.0321	.0349	.0117	.0701
126.000	.5569	.0854	-.2235	-.2045	-.0544	.2066	.1130	-.2261	-.3112	-.0176	-.0125	.0102	-.0115	.0327
144.000	.5014	.0379	-.2569	-.2421	-.1906	.0700	.1049	-.1155	-.3302	-.0176	-.0409	-.0448	-.0509	-.0179
162.000	.4373	-.0110	-.2991	-.2885	-.2403	-.0299	.1562	-.0599	-.1640	-.0687	-.0754	-.0421	-.0529	-.0374
180.000	.3731	-.0596	-.3370	-.3247	-.2706	-.1601	.0503	.0790	-.0729	-.1464	-.1360	-.0829	-.0430	-.0438
198.000	.3260	-.0950	-.3617	-.3432	-.2787	-.1772	-.0106	.1615	-.2002	-.1568	-.0576	-.0508	-.0276	-.3449
216.000	.2814	-.1318	-.3813	-.3474	-.2883	-.0058	.1685	.1129	-.0803	-.2111	-.1099	-.0245	-.0035	-.0112
234.000	.2531	-.1512	-.3882	-.3401	-.2530	.1126	.1645	.0129	-.0341	-.2290	-.0982	-.0257	-.0151	-.0268
252.000	.2302	-.1609	-.3979	-.3590	-.0524	.2796	.3029	-.4293	-.1586	-.1057	.0512	.0321	.0349	.0057
270.000	.2181	-.1676	-.3284	-.2870	-.0266	.5448	.6073	-.4189	-.1181	-.1106	-.0477	-.0907	-.0650	.2201
288.000	.2393	-.1635	-.2875	-.1763	-.0595	.2967	.3759	-.2794	.1242	-.2005	-.0584	-.1239	-.0122	.2206
306.000	.2507	-.1510	-.2860	-.2837	-.0574	.1445	.2239	.1768	.1191	-.2549	-.0779	-.1575	-.0068	.1679
324.000	.2650	-.1238	-.3126	-.3040	-.0467	.1393	.2968	.2973	-.0648	-.3456	-.1847	-.1222	-.1745	.1937
342.000	.3296	-.0829	-.3515	-.3068	-.2220	.1667	.3357	.3806	-.1781	-.4821	-.2592	-.1231	-.1704	.1853
360.000	.4218	-.0417	-.3178	-.3068	-.2511	.1661	.4724	.5435	9.9990	-.5026	-.1536	-.1526	-.2315	.2127
378.000	.9116	.9836					.4014							

X/LT .9116 .9836

PHI
18.000 .4869 -.2413
36.000 .6195 .6582
54.000 .6230 .7936
72.000 .5226 .7871
90.000 .5789 .7935
108.000 .2770 .1161
126.000 .2598 .2442
144.000 .1817 .3512
162.000 .0925 .2938

ORIGINAL PAGE IS
OF POOR QUALITY

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK

(R82T08)

MACH (4) = 1.250 BETA (1) = -8.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.9116	.9836
PHI		
162.000	.0453	.1273
180.000	.0416	.1281
198.000	.0812	.1612
216.000	.1173	.2189
234.000	.1389	.3087
252.000	.2598	.2442
270.000	.2820	.2693
288.000	.2759	.3244
306.000	.2638	.3427
324.000	.2866	.2271
342.000	.2870	-.2592
360.000	.4869	-.2413

MACH (4) = 1.250 BETA (2) = -4.000 Q = 9.2830 PTA = 22.009 RL = 6.6880 PSA = 8.5280

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.4386	-.0241	-.3133	-.2860	-.2224	.2214	.4337	.6057	-.4660	-.1509	-.0052	-.0883	-.1289	.2611	.3056
18.000	.4547	.0004	-.2948	-.2637	-.2142	.2208	.4881	.5251	.2790	-.1556	-.0020	-.0490	-.0458	.3056	.3109
36.000	.4809	.0236	-.2787	-.2656	-.2074	.2381	.3918	.3441	.1537	-.0436	-.0297	-.0433	-.0120	.3109	.2960
54.000	.4968	.0382	-.2649	-.2551	-.1439	.2775	.3012	.0152	.1916	-.0832	-.0210	-.0388	-.0410	-.0352	.2664
72.000	.5172	.0512	-.2580	-.2423	.1104	.4395	.3248	-.4440	-.0244	.0028	-.0106	-.0180	-.0282	-.0253	.1461
90.000	.5016	.0436	-.2539	-.2395	.2173	.5846	.6127	.5656	-.2777	.0005	-.0546	-.0293	-.0074	.1461	.0347
108.000	.4981	.0391	-.2609	-.2464	.0777	.3643	.2574	-.5168	-.2552	-.0698	-.0307	-.0040	.0030	.0029	.0347
126.000	.4836	.0212	-.2730	-.2606	-.1637	.1666	.1490	-.1873	-.2610	-.0332	-.0069	-.0135	-.0191	-.0141	.0347
144.000	.4568	-.0003	-.2895	-.2734	-.2272	.0719	.1189	-.0307	-.2243	-.0761	-.0299	-.0260	-.0153	-.0120	.0135
162.000	.4302	-.0187	-.3029	-.2893	-.2431	-.0694	.1883	.0839	-.0688	-.1224	-.0789	-.0355	-.0186	-.0052	.0006
180.000	.3982	-.0428	-.3241	-.3072	-.2472	-.1776	.1600	.1746	-.0118	-.1727	-.1031	-.0210	-.0173	-.0048	-.0194
198.000	.3768	-.0562	-.3305	-.3148	-.2503	-.1684	.0797	.1865	-.0207	-.1826	-.1031	-.0058	.0085	.0039	.0033
216.000	.3549	-.0733	-.3402	-.3233	-.2484	.0445	.1657	.1160	-.1127	-.1711	-.0807	-.0024	.0256	.0191	.0153
234.000	.3371	-.0882	-.3514	-.3358	-.2277	.1143	.1827	-.0362	-.0766	-.1654	-.0532	-.0008	.0002	-.0080	.0371
252.000	.3183	-.0964	-.3624	-.3501	.0210	.3578	.2825	-.4800	-.1896	-.0698	-.0307	-.0040	.0000	.0000	.0747
270.000	.3117	-.1004	-.3631	-.3400	.0838	.5951	.6127	-.4820	-.1355	-.0553	-.0178	-.0341	-.0134	.1331	.1331
288.000	.3296	-.0990	-.3543	-.3423	-.0885	.4727	.3810	-.3554	.1069	-.1568	-.1019	-.0273	-.0794	-.0117	.1925
306.000	.3334	-.0902	-.3486	-.3100	-.0805	.2702	.3342	.1571	.1018	-.2498	-.1331	-.0430	-.1116	-.0150	.1530
324.000	.3539	-.0744	-.3423	-.3204	-.0955	.2045	.3460	.3529	-.0214	-.2988	-.1078	-.0567	-.1405	-.0225	.2054
342.000	.3840	-.0521	-.3213	-.3025	-.1209	.1580	.3401	.4410	-.0236	-.4129	-.1476	-.0666	-.1340	-.0334	.2255
360.000	.4386	-.0241	-.3133	-.2960	-.2224	.2214	.4337	.6057	-.4660	-.1509	-.0052	-.0883	-.1289	.2611	.2611
378.000								.2790							

MSFC 567(1A32F), T9 S3/2 S3/2 03 US EXTERNAL TANK

(R62706)

MACH (4) = 1.250 BETA (2) = -4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI

.000	.5262	-.1198
18.000	.5673	.5671
36.000	.5347	.6803
54.000	.4750	.6544
72.000	.4892	.6552
90.000	.2730	.1376
108.000	.2359	.2739
126.000	.1715	.3117
144.000	.1159	.2547
162.000	.0906	.1606
180.000	.0802	.1681
198.000	.1025	.1920
216.000	.1284	.2576
234.000	.1618	.2681
252.000	.2399	.2739
270.000	.2477	.2312
288.000	.3150	.4319
306.000	.2872	.4112
324.000	.3397	.3877
342.000	.3915	.0879
360.000	.5262	-.1168

MACH (4) = 1.250 BETA (3) = .000 Q = 9.2830 PTA = 22.009 RL = 6.6880 PSA = 8.5280

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI

.000	.4238	-.0320	-.3166	-.2934	-.2095	.2005	.4056	.5952	-.4602	-.1747	-.0433	-.1034	-.0059	.2468
18.000	.4116	-.0302	-.3179	-.3013	-.1417	.2136	.3510	.4484	.1151	-.3689	-.0536	-.0078	-.0973	.2417
36.000	.4054	-.0314	-.3188	-.2977	-.1705	.2492	.3637	.3629	.0438	-.0677	.0001	-.0831	-.0262	.2395
54.000	.4082	-.0336	-.3147	-.2923	-.1508	.3203	.3231	.0822	.1211	-.1884	-.0969	-.0143	-.0769	.2343
72.000	.4146	-.0274	-.3195	-.2965	.0579	.4683	.3527	-.4152	.0129	-.0932	-.0952	-.0072	-.0560	.2238
90.000	.3987	-.0344	-.3147	-.2969	.1486	.5821	.6189	.5393	-.2013	-.0378	-.0231	-.0249	-.0583	.1293
108.000	.4098	-.0288	-.3189	-.2984	.0358	.3889	.2860	-.4898	-.2135	-.0673	-.0331	-.0234	-.0074	.0012
126.000	.4175	-.0332	-.3215	-.2971	-.2038	.1488	.2019	-.1184	-.1720	-.0848	-.0311	-.0185	-.0024	.0364
144.000	.4156	-.0378	-.3169	-.2975	.2334	.1034	.1645	.0706	.1454	-.1327	-.0598	-.0002	-.0150	.0306
162.000	.4222	-.0399	-.3115	-.2942	-.2388	-.0564	.1637	.1850	-.0280	-.1639	-.0877	.0113	.0349	.0227
180.000	.4271	-.0357	-.3069	-.2987	-.2305	-.1634	.1986	.2182	.0137	-.1947	-.0993	.0092	.0348	.0210
198.000	.4222	-.0399	-.3115	-.2942	-.2388	-.0964	.1637	.1850	-.0280	-.1639	-.0877	.0113	.0348	.0227
216.000	.4196	-.0378	-.3169	-.2975	-.2334	.1034	.1645	.0706	-.1454	-.1327	-.0598	-.0002	-.0150	.0306
234.000	.4175	-.0332	-.3215	-.2971	-.2038	.1488	.2019	-.1184	-.1720	-.0848	-.0311	-.0185	-.0024	.0364
252.000	.4098	-.0288	-.3189	-.2984	.0358	.3889	.2860	-.4898	-.2135	-.0673	-.0331	-.0234	-.0074	.0012
270.000	.3987	-.0344	-.3147	-.2969	.1486	.5821	.6189	.5393	-.2013	-.0378	-.0231	-.0249	-.0583	.1293

MSFC 567(1A32F) T9 53/2 53/2 03 US EXTERNAL TANK (R82106)

MACH (4) = 1.250 BETA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
288.000	.4146	-.0274	-.3126	-.2865	.0578	.4683	.3527	-.4152	.0129	-.0932	-.0922	-.0072	-.0560	-.0577	.2238
306.000	.4062	-.0338	-.3147	-.2823	-.1508	.3203	.3231	.0822	.1211	-.1684	-.0969	-.0143	-.0769	-.0562	.2343
324.000	.4094	-.0314	-.3168	-.2977	-.1705	.2482	.3637	.3629	.0438	-.2769	-.0677	.0001	-.0831	-.0282	.2385
342.000	.4116	-.0302	-.3179	-.3013	-.1417	.2136	.3510	.4484	.1151	-.3689	-.0536	-.0078	-.0973	-.0027	.2417
360.000	.4238	-.0320	-.3166	-.2934	-.2085	.2005	.4056	.5952	9.9990	-.4602	-.1747	-.0433	-.1034	-.0058	.2468
378.000									.1151						

X/LT .9118 .9836

PHI

.000	.4210	.1071
18.000	.3921	.3364
36.000	.3820	.4290
54.000	.3234	.5110
72.000	.3645	.5179
90.000	.2462	.1795
108.000	.1965	.2701
126.000	.1612	.2685
144.000	.1375	.2691
162.000	.1065	.1979
180.000	.0903	.1808
198.000	.1065	.1979
216.000	.1375	.2691
234.000	.1612	.2685
252.000	.1965	.2701
270.000	.2462	.1795
288.000	.3645	.5179
306.000	.3234	.5110
324.000	.3820	.4290
342.000	.3921	.3364
360.000	.4210	.1071

MACH (4) = 1.250 BETA (4) = 4.000 Q = 9.2830 PTA = 22.009 RL = 6.6680 PSA = 8.5280

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
.000	.4200	-.0300	-.3081	-.2776	-.2290	.2078	.4259	.5608		-.4686	-.1160	-.0101	-.0843	-.1093	.2662
18.000	.3840	-.0521	-.3213	-.3035	-.1209	.1580	.3401	.4410	-.0236	-.4129	-.1476	-.0666	-.1340	-.0314	.2258
36.000	.3539	-.0744	-.3423	-.3204	-.0955	.2045	.3460	.3539	-.0214	-.2988	-.1078	-.0557	-.1405	-.0225	.2054
54.000	.3334	-.0902	-.3486	-.3100	-.0805	.2702	.3342	.1571	.1018	-.2498	-.1331	-.0430	-.1118	-.0150	.1990
72.000	.3296	-.0990	-.3543	-.3115	-.0085	.4727	.3810	-.3564	.1069	-.1568	-.1019	-.0273	-.0794	-.0117	.1925
90.000	.3117	-.1004	-.3631	-.3400	.0838	.5951	.6127	-.4420		-.1355	-.0953	-.0176	-.0341	-.0134	.331

(R02T06)

MACH (4) = 1.250 BETA (4) = 4.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI															
108.000	.3183	-.0684	-.3624	-.3501	.0210	.3578	.2825	-.4800	-.1898	-.0863	-.0524	-.0161	-.0125	-.0080	.0700
126.000	.3371	-.0882	-.3514	-.3358	-.2277	.1143	.1827	-.0352	-.0768	-.1654	-.0532	-.0008	.0002	-.0080	.0371
144.000	.3545	-.0733	-.3402	-.3233	-.2484	.0445	.1657	.1160	-.1127	-.1711	-.0807	-.0024	.0256	.0181	.0163
162.000	.3768	-.0562	-.3305	-.3148	-.2503	-.1684	.0797	.1866	-.0207	-.1826	-.1031	-.0958	.0095	.0039	.0013
180.000	.4050	-.0337	-.3138	-.2995	-.2395	-.2088	.1302	.1755	-.0033	-.1826	-.1064	-.0198	.0081	.0108	-.0258
198.000	.4302	-.0187	-.3029	-.2893	-.2431	-.0694	.1883	.0839	-.0688	-.1224	-.0789	-.0355	.0186	-.0062	.0006
216.000	.4568	-.0003	-.2895	-.2734	-.2272	.0719	.1189	-.0307	-.2243	-.0761	-.0299	-.0260	-.0153	-.0120	.0135
234.000	.4836	.0212	-.2730	-.2606	-.1637	.1666	.1490	-.1873	-.2610	-.0332	-.0069	-.0135	-.0191	-.0141	.0347
252.000	.4981	.0391	-.2609	-.2464	.0777	.3643	.2574	-.3168	-.2552	-.0865	-.0524	-.0161	-.0125	-.0080	.0700
270.000	.5016	.0436	-.2539	-.2395	.2173	.5646	.6127	-.5656	-.2777	-.0005	.0005	-.0546	-.0203	-.0074	.1481
288.000	.5172	.0512	-.2580	-.3115	.1104	.4395	.3248	-.4440	-.0244	.0029	-.0106	-.0180	-.0282	-.0253	.2654
306.000	.4868	.0382	-.2648	-.2551	-.1439	.2775	.3012	.0152	.1916	-.0832	-.0210	-.0388	-.0410	-.0352	.2950
324.000	.4609	.0238	-.2787	-.2858	-.2074	.2381	.3918	.3441	.1537	-.2487	-.0436	-.0297	-.0403	-.0120	.3108
342.000	.4347	.0004	-.2848	-.2837	-.2142	.2808	.4891	.5251	.2790	-.3404	-.1558	-.0020	-.0480	-.0458	.3056
360.000	.4200	-.0300	-.3081	-.2776	-.2290	.2078	.4259	.5808	.9.9990	-.4888	-.1180	-.0101	-.0843	-.1092	.2652
378.000									-.0238						

X/LT .9118 .9838

PHI	.9118	.9838
.000	.5125	-.1072
18.000	.3815	.0808
35.000	.3397	.3877
54.000	.2872	.4112
72.000	.3150	.4319
90.000	.2477	.2312
108.000	.1947	.2595
126.000	.1619	.2881
144.000	.1284	.2576
162.000	.1025	.1920
180.000	.0721	.1579
198.000	.0606	.1606
216.000	.1199	.2547
234.000	.1719	.3117
252.000	.1947	.2595
270.000	.2730	.1376
288.000	.4882	.6582
306.000	.4750	.6544
324.000	.5347	.6803
342.000	.5673	.5671
360.000	.5125	-.1072

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK (R62T06)

MACH (4) = 1.250 BETA (5) = 8.000 Q = 9.2630 P1A = 22.009 RL = 6.6360 PSA = 8.5260

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7095	.7762	.8439
PHI	.000	.3933	-.0460	-.3188	-.3007	-.2173	.1458	.4297	.5310	-.5206	-.2416	-.1326	-.1542	-.2479	.2255
18.000	.3296	-.0929	-.3515	-.3058	-.2220	.1667	.3357	.3806	-.1781	-.4821	-.2592	-.1231	-.1704	-.1351	.1853
36.000	.2650	-.1238	-.3126	-.3040	-.0467	.1393	.2968	.2973	-.0648	-.3456	-.1847	-.1222	-.1745	-.0259	.1837
54.000	.2507	-.1510	-.2860	-.2837	-.0574	.1445	.2239	.1768	.1191	-.2949	-.1784	-.0779	-.1575	-.0068	.1779
72.000	.2393	-.1635	-.2875	-.2752	-.0595	.2967	.3759	-.2794	.1242	-.2005	-.1406	-.0584	-.1239	-.0122	.1679
90.000	.2181	-.1676	-.3284	-.2870	-.0266	.5448	.6073	-.4189	-.1181	-.1108	-.0477	-.0477	-.0907	-.0650	.1206
108.000	.2302	-.1609	-.3979	-.3590	-.0524	.2796	.3029	-.4293	-.1586	-.1294	-.0899	-.0257	-.0243	-.0234	.0398
126.000	.2531	-.1512	-.3882	-.3401	-.2530	.1126	.1645	.0129	-.0341	-.2290	-.0982	-.0257	-.0151	-.0268	.0057
144.000	.2814	-.1318	-.3813	-.3474	-.2863	-.0058	.1685	.1129	-.0803	-.2111	-.1099	-.0245	-.0035	-.0206	-.0112
162.000	.3280	-.0950	-.3617	-.3432	-.2787	-.1772	-.0106	.1615	-.0374	-.2002	-.1568	-.0576	-.0508	-.0276	-.0449
180.000	.3638	-.0475	-.3316	-.3139	-.2586	-.2207	-.0181	.0698	-.0609	-.1572	-.1361	-.0900	-.0500	-.0405	-.0840
198.000	.3773	-.0110	-.2991	-.2885	-.2477	-.0299	.1582	-.0699	-.1640	-.0687	-.0874	-.0754	-.0421	-.0529	-.0374
216.000	.5014	.0379	-.2569	-.2421	-.1700	.0700	.1049	.1155	-.3302	-.0176	-.0409	-.0448	-.0459	-.0509	-.0179
234.000	.5569	.0934	-.2235	-.2045	-.1404	.2066	.1130	-.2261	-.3112	-.0380	-.0114	-.0125	-.0102	-.0115	.0327
252.000	.5937	.1202	-.1984	-.1827	-.2050	.3744	.2606	-.5168	-.2683	-.1294	-.0899	-.0257	-.0243	-.0134	.0398
270.000	.6043	.1313	-.1892	-.1673	.3122	.5678	.6200	-.5656	-.3204	-.0542	-.0542	-.0655	-.0665	.0150	.1591
288.000	.6171	.1357	-.1932	-.2752	.1911	.4296	.2986	-.4791	-.0793	.0983	.0767	.0454	-.0076	.0342	.2753
306.000	.5748	.1027	-.2137	-.2084	-.0518	.2438	.1709	-.0935	.2353	.0259	.0750	.0032	-.0334	.0341	.3110
324.000	.5323	.0650	-.2450	-.2315	-.1725	.1517	.2906	-.2694	.2686	-.1539	.0381	-.0282	-.0400	.0317	.3185
342.000	.4699	.0117	-.2831	-.2737	-.2284	.1519	.4249	.5029	.4014	-.3282	-.1248	-.0861	-.0729	.0074	.3067
360.000	.3933	-.0460	-.3188	-.3007	-.2173	.1458	.4257	.5310	9.9990	-.5206	-.2416	-.1326	-.1542	-.2479	.2255
378.000	.9116	.9636							-.1781						

X/LT	.9116	.9636
PHI	.000	.4813
18.000	.2870	-.2592
36.000	.2668	.2271
54.000	.2638	.3427
72.000	.2759	.3244
90.000	.2820	.2693
108.000	.2023	.2815
126.000	.1399	.3087
144.000	.1173	.2189
162.000	.0812	.1612
180.000	.0321	.1016
198.000	.0453	.1273
216.000	.0925	.2938
234.000	.1817	.3512
252.000	.2023	.2815
270.000	.2770	.1161
288.000	.5789	.7935
306.000	.5226	.7871
324.000	.6230	.7936

MSFC 567(1A32F) TO S3/2 S3/2 03 US EXTERNAL TANK

(R62T05)

MACH (4) = 1.250 BETA (5) = 0.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI
342.000 .6195 .6562
360.000 .4813 -.2482

MACH (5) = 3.500 BETA (1) = -0.000 Q = 5.7176 PTA = 50.018 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1550 .2203 .2347 .2707 .3139 .3489 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI	.000	.4256	.1211	.0234	.0203	.2347	.2707	.3139	.3489	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
18.000	.4866	.1536	.0203	.0098	.0291	.0186	.0166	.0315	.0629	.0633	.2260	.1289	.0592	.0267	-.0273	-.0195	-.0249
36.000	.5491	.1911	.0301	.0261	.0179	.0450	.0927	.1543	.0927	.1543	.2693	.1813	.0508	.0294	.0237	.0413	.0494
54.000	.5961	.2240	.0460	.0386	.0311	.0572	.0693	.2365	.0964	.0349	.0142	.0159	.0704	.0782	.0782	.0782	.0782
72.000	.6418	.2443	.0568	.0494	.0406	.0714	.3762	.1857	.1857	.1857	.0002	-.0341	-.0283	.0393	.0876	.0544	.0795
90.000	.6377	.2487	.0592	.0514	.0453	.1077	.7537	.2656	.2656	.2656	-.0462	-.0344	-.0002	.0132	.0081	.0081	.0081
108.000	.6198	.2399	.0552	.0474	.0403	.0930	.3694	.1783	.1783	.1783	.0259	-.0476	-.0330	.0098	.0169	.0058	.0019
126.000	.5771	.2142	.0409	.0352	.0281	.0470	.0659	.1708	.0659	.0659	.0460	-.0307	-.0391	-.0182	.0081	.0125	.0344
144.000	.5240	.1810	.0261	.0200	.0112	.0179	.0514	.0562	.0562	.0562	.0393	-.0097	-.0303	-.0327	.0134	-.0097	.0134
162.000	.4625	.1459	.0064	.0064	.0033	-.0036	-.0077	.0064	.0064	.0064	.0105	-.0127	-.0276	-.0354	-.0285	-.0222	.0219
180.000	.3985	.1083	-.0097	-.0097	-.0165	-.0226	-.0159	-.0073	.0014	.0000	.0000	-.0087	-.0226	-.0283	-.0314	-.0280	.0265
198.000	.3411	.0760	-.0317	-.0317	-.0314	-.0202	-.0165	.0054	-.0067	.0104	.0060	-.0067	-.0195	-.0337	-.0347	-.0317	.0255
216.000	.2907	.0521	-.0394	-.0394	-.0212	-.0182	-.0182	.0416	-.0033	-.0195	.0003	-.0003	-.0067	-.0171	-.0232	-.0249	.0235
234.000	.2608	.0359	-.0226	-.0226	-.0168	-.0182	-.0168	-.0063	-.0259	-.0165	-.0205	-.0063	-.0063	-.0097	-.0175	-.0195	.0179
252.000	.2439	.0291	-.0155	-.0155	-.0138	-.0168	-.0168	.1303	.0254	.0254	-.0327	-.0476	-.0330	.0098	.0169	.0058	.0015
270.000	.2385	.0271	-.0114	-.0114	-.0107	-.0168	.0549	.2294	.0325	.0325	-.0354	-.0354	-.0111	-.0320	.0111	-.0195	.0320
288.000	.2487	.0308	-.0094	-.0094	-.0494	-.0111	-.0057	.1418	.0416	.0416	.0464	.0396	.0535	.0020	.0054	-.0023	.0235
306.000	.2649	.0413	-.0104	-.0104	-.0050	-.0050	.0075	.0382	.0572	.0572	.1029	.0433	.0205	.0254	.0009	-.0148	.0242
324.000	.3062	.0608	-.0158	-.0158	-.0040	-.0016	.0081	.0321	.0545	.0545	.0538	-.0141	-.0334	-.0118	-.0280	-.0465	.0365
342.000	.3481	.0836	-.0050	-.0050	-.0070	.0031	.0098	.0281	.0315	.0315	.3312	-.0097	-.0341	-.0327	-.0408	-.0455	.0285
360.000	.4256	.1211	.0234	.0196	.0166	.0315	.0629	.0533	.0533	.0533	9.9590	.0061	-.0320	-.0273	-.0195	-.0249	.0205
378.000	.9116	.9836															

PHI	.000	.1509	-.0002														
18.000	.2087	.4513															
36.000	.1211	.3677															
54.000	.1323	.3698															
72.000	.0717	.3748															
90.000	.0514	.0593															
108.000	.0227	.0539															
126.000	.0058	.0568															
144.000	-.0149	.0832															

ORIGINAL PAGE IS OF POOR QUALITY

TABLATED SOURCE DATA, MSFC INT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 US EXTERNAL TANK

(R82106)

DATE 05 SEP 75

MACH (5) = 3.500 BETA (1) = -0.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .5838

PHI		
162.000	-.0317	.0270
180.000	-.0326	-.0087
198.000	-.0280	.0007
216.000	-.0249	.0338
234.000	-.0138	.0643
252.000	-.0227	.0639
270.000	-.0056	.0237
288.000	-.0097	.1272
306.000	.0386	.0995
324.000	.0332	.0325
342.000	.0385	.0450
360.000	.1509	-.0002

MACH (5) = 3.500 BETA (2) = -0.000 Q = 5.7176 PTA = 3816 PTA = 50.018 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .0757 .1950 .2203 .2347 .2707 .3139 .3499 .3816 .4378 .5055 .5732 .6408 .7085 .7762 .8439

PHI														
18.000	.4307	.1231	.0186	.0169	.0166	.0294	.0606	.0866	.0010	.0041	.0288	.0301	.0186	.0807
36.000	.4591	.1363	.0122	.0071	.0051	.0186	.0612	.1167	.0315	-.029	.0200	.0206	.0139	.0325
54.000	.4868	.1560	.0152	.0102	.0115	.0274	.0660	.1313	.1590	.0257	.0051	.0031	.0271	.0399
72.000	.5061	.1698	.0179	.0122	.0129	.0399	.0680	.0957	.1076	.0054	-.0107	.0247	.0335	.0291
90.000	.5291	.1752	.0203	.0152	.0132	.0436	.3535	.1729	.0010	-.0276	.0405	.0508	.0369	.0234
108.000	.5206	.1756	.0203	.0142	.0146	.2645	.7196	.2564	-.0489	-.0489	-.0178	-.0171	.0175	-.0138
126.000	.5125	.1719	.0173	.0118	.0085	.0531	.3312	.1678	-.0293	-.0510	-.0171	-.0141	.0138	-.0294
144.000	.4926	.1600	.0115	.0071	.0010	.0186	.0541	.0519	.0467	-.0337	-.0449	-.0273	-.0097	-.0243
162.000	.4709	.1455	.0051	.0003	-.0063	.0024	.0423	.0223	.0031	.0007	-.0226	-.0290	-.0117	-.0029
180.000	.4428	.1269	-.0067	-.0077	-.0141	-.0094	-.0003	.0064	-.0023	-.0114	.0027	-.0073	-.0083	-.0083
198.000	.4090	.1133	-.0107	-.0165	-.0226	-.0131	-.0016	.0078	.0193	.0257	.0098	-.0056	-.0100	-.0178
216.000	.3814	.0967	-.0199	-.0233	-.0240	-.0108	.0064	.0050	.0226	.0267	.0114	-.0320	-.0142	-.0209
234.000	.3584	.0838	-.0240	-.0250	-.0162	-.0104	.0490	.0111	-.0128	-.0003	.0104	-.0037	-.0118	-.0236
252.000	.3347	.0733	-.0267	-.0158	-.0128	-.0111	.0077	-.0145	.0179	-.0277	-.0338	-.0058	-.0109	-.0129
270.000	.3262	.0689	-.0206	-.0077	-.0118	-.0104	.1724	.0693	-.0341	-.0510	-.0205	-.0171	-.0141	-.0094
288.000	.3235	.0672	-.0145	-.0043	-.0091	.0260	.6816	.0963	-.0473	-.0172	-.0287	-.0317	-.0094	-.0040
306.000	.3341	.0705	-.0129	-.0152	-.0051	.0046	.1564	.0827	.0056	-.0047	.0355	.0192	-.0003	.0145
324.000	.3409	.0783	-.0176	-.0051	-.0224	.0110	.0489	.0773	.1334	.0895	-.0118	.0094	.0172	-.0033
342.000	.3683	.0908	-.0098	-.0098	.0030	.0161	.0543	.0918	.0349	.0246	-.0145	.0235	.0129	-.0195
360.000	.3912	.1021	-.0010	-.0037	.0016	.0165	.0513	.0699	.3090	-.0169	.0206	.0439	.0253	-.0152
378.000	.4307	.1231	.0186	.0169	.0166	.0294	.0606	.0866	9.9990	.0010	.0288	.0301	.0186	.0207

TABLATED SOURCE DATA, NSFC TMT 567 (1A32F)
NSFC 567(1A32F) TO 53/2 53/2 03 US EXTERNAL TANK (R62T08)

DATE 05 SEP 75

MACH (5) = 3.500 BETA (2) = -.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9838

PHI	.000	.0508	.0345
18.000	.0714	.4066	
35.000	.0382	.3569	
54.000	.0634	.2700	
72.000	.0308	.2835	
90.000	.0311	.0608	
109.000	.0108	.0683	
126.000	.0020	.0978	
144.000	-.0164	.0863	
162.000	-.0158	.0162	
180.000	-.0199	-.0134	
198.000	-.0260	.0098	
216.000	-.0236	.0703	
234.000	-.0024	.0952	
252.000	.0108	.0683	
270.000	.0162	.0172	
288.000	-.0013	.1952	
305.000	.0341	.1568	
324.000	.0530	.1535	
342.000	.0459	.0715	
360.000	.0508	.0345	

MACH (5) = 3.500 BETA (3) = .000 Q = 5.7176 PTA = 50.018 RL = 5.3300 PSA = .67500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PHI	.000	.1139	.0245	.0215	.0238	.0333	.0679	.0748	.0259	.0379	.0259	.0633	.0338	.0338	.0229
18.000	.4181	.1113	.0068	.0047	.0098	.0227	.0633	.0839	.2449	.0027	.0146	.0345	.0139	.0139	.0319
35.000	.4141	.1144	.0024	-.0009	.0081	.0190	.0639	.1039	.1380	.1018	.0014	.0027	.0132	.0173	.0229
54.000	.4077	.1133	-.0036	-.0023	.0098	.0176	.0538	.0836	.1255	.0866	-.0107	-.0212	.0237	.0196	.0379
72.000	.4151	.1116	-.0067	-.0070	.0068	.0173	.2419	.1434	.0024	-.0144	-.0273	.0315	.0051	.0068	.0257
90.000	.4066	.1110	-.0107	-.0124	.0024	.0964	.6783	.1752	-.0473	-.0483	-.0276	-.0389	-.0232	-.0100	.0300
109.000	.4070	.1120	-.0107	-.0148	.0043	.0129	.2240	.1421	-.0273	-.0425	-.0334	-.0300	-.0178	-.0233	.0300
126.000	.4121	.1113	-.0131	-.0165	-.0131	.0010	.0261	-.0043	.0450	-.0320	-.0439	-.0222	-.0114	-.0161	.0307
144.000	.4121	.1127	-.0134	-.0178	.0209	-.0046	.0234	.0122	-.0144	.0027	-.0043	-.0111	-.0087	-.0050	.0314
162.000	.4151	.1150	-.0121	-.0171	-.0229	-.0124	.0017	.0054	.0173	-.0019	.0142	.0071	.0025	.0127	.0175
180.000	.4188	.1137	-.0138	-.0178	-.0236	-.0178	-.0060	.0024	.0372	.0474	.0284	.0071	.0045	-.0124	.0202
198.000	.4151	.1150	-.0121	-.0171	-.0229	-.0124	.0017	.0054	.0173	-.0019	.0142	.0071	.0025	-.0127	.0175
216.000	.4121	.1127	-.0134	-.0178	-.0209	-.0046	.0234	.0122	-.0144	.0027	-.0043	-.0111	-.0087	-.0050	.0314
234.000	.4066	.1113	-.0131	-.0165	-.0131	.0010	.0261	-.0043	.0450	-.0320	-.0439	-.0222	-.0114	-.0161	.0307
252.000	.4070	.1120	-.0107	-.0148	.0043	.0129	.2240	.1421	-.0273	-.0425	-.0334	-.0300	-.0178	-.0233	.0300
270.000	.4066	.1110	-.0107	-.0124	.0024	.0964	.6783	.1752	-.0473	-.0483	-.0276	-.0389	-.0232	-.0100	.0300

ORIGINAL PAGE IS OF POOR QUALITY

TABULATED SOURCE DATA, MSFC THT 567 (1A3ZF)

(R82106)

MSFC 567(1A3ZF) T8 S3/2 S3/2 03 US EXTERNAL TANK

MACH (5) = 3.500 BETA (3) = .000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2947	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PM1	.4151	.1116	-.0067	-.0070	.0069	.0173	.2419	.1434	.0024	-.0144	-.0273	.0315	.0551	.0568
288.000	.4077	.1133	-.0036	-.0023	.0096	.0176	.0538	.0936	.1235	.0966	-.0107	-.0212	.0237	.0196
306.000	.4141	.1144	.0024	-.0009	.0081	.0190	.0638	.1035	.1111	.1018	.0014	.0027	.0132	.0078
324.000	.4181	.1113	.0088	.0047	.0098	.0227	.0833	.0939	.0927	.0148	.0545	.0457	.0139	.0059
342.000	.4200	.1139	.0245	.0215	.0238	.0333	.0878	.0748	.0259	.0379	.0711	.0633	.0338	.0029
360.000							.2449							

X/LT .9116 .9838

SECTION (2) EXTERNAL TANK DEPENDENT VARIABLE CP

PM1	.0738	.0704	.0548	.1577	.2074	.2283	.1955	.0244	.0296	.0623	.1184	.1049	-.0235	-.0333
18.000	.0548	.1577	.2074	.2283	.1955	.0244	.0296	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183
36.000	.0511	.2283	.1955	.0244	.0296	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333
54.000	.0156	.1955	.0244	.0296	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0181	.1049
72.000	.0244	.0296	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0181	.1049
90.000	.0068	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0181	.1049
108.000	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0333
126.000	.0068	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0181	.1049
144.000	.0203	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0333
162.000	.0068	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0181	.1049
180.000	.0203	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0333
198.000	.0068	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0181	.1049
216.000	.0203	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0333
234.000	.0068	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0181	.1049
252.000	.0203	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0333
270.000	.0068	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333	-.0212	-.0183	-.0236	-.0181	.1049
288.000	.0156	.1955	.0244	.0296	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0181	.1049
306.000	.0511	.2283	.1955	.0244	.0296	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0333
324.000	.0156	.1955	.0244	.0296	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183	-.0236	-.0181	.1049
342.000	.0548	.1577	.2074	.2283	.1955	.0244	.0296	.0623	.1184	.1049	-.0235	-.0333	-.0212	-.0183
360.000	.0738	.0704	.0548	.1577	.2074	.2283	.1955	.0244	.0296	.0623	.1184	.1049	-.0235	-.0333

MACH (5) = 3.500 BETA (4) = 4.000 0 = 5.7176 PTA = 50.016 RL = 5.3300 PSA = .57500

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT	.0757	.1550	.2203	.2947	.3139	.3499	.3816	.4378	.5055	.5732	.6408	.7085	.7762	.8439
PM1	.4220	.1178	.0169	.0144	.0137	.0258	.0930	.0088	.0064	.0064	.0258	.0258	.0125	-.0013
18.000	.3912	.1021	.0010	-.0037	.0016	.0165	.0599	.3080	-.0189	.0208	.0439	.0253	.0254	.0132
36.000	.3583	.0908	-.0098	-.0098	.0000	.0161	.0543	.0949	.0246	-.0145	.0236	.0125	.0223	.0196
54.000	.3409	.0783	-.0176	-.0051	-.0024	.0110	.0489	.1334	.0895	-.0118	.0354	.0125	.0215	.0233
72.000	.3341	.0705	-.0129	-.0017	-.0051	.0046	.0827	.0056	-.0047	.0355	.0182	.0125	.0145	.0179
90.000	.3235	.0572	-.0145	-.0043	-.0091	.0260	.0816	-.0473	-.0172	-.0287	-.0333	-.0333	-.0333	-.0333

MACH (5) = 3.500 BETA (5) = 8.000 Q = 5.7176 PTA = 50.018 RL = 5.3300 PSA = 57500

MSFC 967(1A32F) 10 53/2 53/2 03 US EXTERNAL TANK (RB2TC08)

SECTION 11 EXTERNAL TANK DEPENDENT VARIABLE CP

X, LT	.0797	.1950	.2203	.2347	.2707	.3139	.3499	.3816	.4378	.5055	.5732	.6498	.7365	.8262	.9162
PHI	.000	.1123	.0166	.0166	.0166	.0261	.0629	.0717	.3312	.0024	-.0469	-.0257	-.3320	-.0371	-.3317
1P, 000	.3481	.0835	-.0050	-.0070	.0031	.0098	.0281	.0315	.0538	-.0397	-.0341	-.0327	-.0408	-.0456	-.2286
36, 000	.3062	.0606	-.0158	-.0040	-.0016	.0091	.0321	.0545	.1029	.0141	-.0334	.0118	-.0280	-.0450	-.0365
54, 000	.2645	.0413	-.0104	-.0050	-.0050	.0075	.0382	.0572	.1029	.0433	-.0205	.0254	-.0009	-.0149	-.0242
72, 000	.2487	.0308	-.0094	-.0070	-.0111	-.0087	.1418	.0416	.0464	.0396	.0535	.0820	.0054	-.0023	-.0235
90, 000	.2385	.0271	-.0114	-.0107	-.0168	.0548	.2294	.0325	.0454	-.0154	-.0111	-.0320	-.0011	-.0195	-.0253
108, 000	.2435	.0291	-.0155	-.0138	-.0188	.0168	.1303	.0264	.0327	-.0335	-.0250	-.0233	-.0195	-.0135	-.0285
126, 000	.2608	.0359	-.0226	-.0168	-.0182	-.0168	-.0063	-.0259	-.0165	-.0205	-.0053	-.0397	-.0175	-.0195	-.0179
144, 000	.2987	.0521	-.0354	-.0314	-.0202	-.0165	.0054	-.0067	-.0195	.0003	-.0057	-.0171	-.0232	-.0240	-.0225
162, 000	.3411	.0760	-.0317	-.0314	-.0202	-.0189	-.158	-.0063	-.0009	.0060	-.0195	-.0337	-.0347	-.0347	-.0285
180, 000	.4046	.1072	-.0182	-.0212	-.0232	-.0189	-.158	.0164	.0105	-.0127	-.0276	-.0354	-.0354	-.0354	-.0213
198, 000	.4625	.1458	.0354	.0003	-.0057	-.0035	-.0077	.0164	.0105	-.0127	-.0276	-.0354	-.0354	-.0354	-.0213
216, 000	.5240	.1810	.0261	.0200	.0112	.0179	.0514	.0562	.0393	-.0037	-.0303	-.0427	-.0334	-.0334	-.0174
234, 000	.5771	.2142	.0409	.0352	.0281	.0470	.0959	.1708	.0460	-.0307	-.0391	-.0182	.009	.0125	-.0144
252, 000	.6198	.2399	.0552	.0474	.0403	.0930	.3594	.1783	-.0259	-.0395	-.0260	-.0233	-.0199	-.0195	-.0285
270, 000	.6357	.2487	.0592	.0514	.0453	.1077	.7537	.2655	-.0259	-.0462	-.0344	-.0322	-.0322	-.0322	-.0174
288, 000	.6418	.2443	.0568	-.0070	.0405	.0714	.3762	.1857	-.0002	-.0341	-.0293	.0393	.0373	.0373	-.0174
306, 000	.5961	.2240	.0460	.0386	.0311	.0572	.0693	.2365	.0964	.0349	.0142	.0159	.0704	.0704	-.0174
324, 000	.5491	.1911	.0301	.0261	.0179	.0450	.0927	.1553	.2693	.1813	.0508	.0294	.0237	.0237	-.0174
342, 000	.4888	.1536	.0203	.0149	.0098	.0291	.0897	.1343	.2260	.1299	.0592	.0257	.012	.012	-.0174
360, 000	.4100	.1123	.0166	.0166	.0166	.0261	.0629	.0717	9.9990	.0024	-.0469	-.0257	-.3320	-.0371	-.3317
378, 000								.3312							

X/LT	.9116	.9836
PHI	.000	.1340
19, 000	.0385	.0450
36, 000	.0332	.0325
54, 000	.0386	.0995
72, 000	-.0097	.1272
90, 000	-.0058	.0237
108, 000	-.0139	.0957
126, 000	-.0138	.0843
144, 000	-.0249	.0338
162, 000	-.0290	.0007
180, 000	-.0320	-.0168
198, 000	-.0317	.0240
216, 000	-.0148	.0932
234, 000	.0368	.0568
252, 000	-.0175	.0557
270, 000	.0314	.0653
288, 000	.0717	.3748
306, 000	.1323	.3698
324, 000	.1211	.3577

DATE 09 SEP 75

TABULATED SOURCE DATA, MSFC TNT 567 (1A32F)

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MSFC 567(1A32F) T9 53/2 53/2 03 U5 EXTERNAL TANK

(R82T06)

MACH (5) = 3.500 BETA (5) = 0.000

SECTION (1) EXTERNAL TANK DEPENDENT VARIABLE CP

X/LT .9116 .9836

PHI

342.000 .2087 .4513

360.000 .1340 -.0073

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER (R825011) (24 APR 74)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .9720 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040 SCALE

PARAMETRIC DATA

BETA = .000 CONF10 = 90.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500

MACH (1) = .600 ALPHA (1) = -10.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.3437	.0326	-.4863	-.0815	-.1012	-.0765	-.0589	-.0554	-.1030	-.5792	.1903	.3221	.1319
22.500	.3318	.2000	-.1015	-.6181	-.1635	-.1705	-.1626	-.1405	-.1343	-.1820	-.5490	.1927	.3149	.1782
45.000	.1449	.0433	-.2525	-.6579	-.2587	-.2534	-.2410	-.2331	-.2331	-.2392	-.5683	.1632	.2831	.1711
67.500			-.3792	-.8573	-.3298	-.3219	-.3148	-.2919	-.2839	-.2734	-.5131	.1166	.2129	.1175
90.000	-.1287	-.1984	-.4665	-.9755	-.3492	-.3333	-.3254	-.2945	-.2760	-.2416	-.4701	.0680	.1422	.0372
112.500			-.4901	-.8468	-.3211	-.3026	-.2771	-.2269	-.1955	-.1328	-.4745	.0538	.0829	-.0202
135.000	-.1654	-.2490	-.4979	-.9650	-.2621	-.2551	-.2015	-.1566	-.1443	-.1284	-.4830	.0495	.0654	-.0361
157.500	-.1536	-.2472	-.4972	-.8823	-.2216	-.2242	-.1615	-.1580	-.1571	-.1394	-.4733	.0486	.0689	-.0289
180.000	-.1455	-.2487	-.4955	-.8890	-.1896	-.2557	-.1225	-.1640	9.9990	-.2072	-.4507	.0265	.0530	-.0563
202.500	-.2187	-.3033	-.5477	-.8308	-.2478	-.3748	-.0696	-.0661	-.0722	-.0819	-.4671	.0377	.1813	.1170
225.000	-.2728	-.4574	-.7039	-.8788	-.3974	-.4733	-.0467	-.0414	-.0520	-.0440	-.5408	-.0167	.1709	.2492
247.500			-.9855	-.9820	-.4408	-.4575	-.0325	-.0325	-.0457	-.0070	-.3538	-.0511	.1144	.2527
270.000	-.1287	-.2293	-.5565	-.12260	-.6879	-.4533	-.0969	-.0625	-.0767	.0115	-.2142	-.0395	.1175	.1713
292.500			.1072	-.4926	.0676	-.2190	-.0167	.0016	-.0150	.0210	-.5646	-.0290	.0854	.1171
315.000	.4148	.4183	.1708	-.2942	.0986	.0687	.0114	.0167	-.0026	-.0176	-.7355	.0598	.3241	-.0352
337.500	.5266	.4463	.1491	-.2839	.0441	-.0431	-.0061	9.9990	-.0131	-.0595	-.5946	.1854	.3689	.0451
360.000	.4680	.3437	.0326	-.4863	-.0615	-.1012	-.0765	-.0589	-.0534	-.1030	-.5792	.1903	.3221	.1319

MACH (1) = .600 ALPHA (2) = -8.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.2981	-.0096	-.5274	-.0634	-.0511	-.0643	-.0440	-.0370	-.0749	-.5341	.1650	.3141	.1328
22.500	.3085	.1807	-.1206	-.5004	-.1400	-.0871	-.1250	-.1030	-.0959	-.1347	-.5101	.1939	.3108	.1762
45.000	.1598	.0548	-.2398	-.7702	-.2116	-.1639	-.1887	-.1745	-.1657	-.1772	-.4872	.1701	.2794	.1701
67.500			-.3408	-.7737	-.2565	-.2425	-.2301	-.2088	-.2044	-.2026	-.4559	.1388	.2281	.1193
90.000	-.0492	-.1288	-.4089	-.8065	-.2710	-.2490	-.2295	-.2048	-.1950	-.1809	-.4294	.1020	.1782	.0613
112.500			-.4334	-.8432	-.2554	-.2281	-.2008	-.1691	-.1444	-.1021	-.4352	.0802	.1199	.0177
135.000	-.0973	-.1885	-.4461	-.9119	-.2141	-.1938	-.1495	-.1176	-.1079	-.0964	-.4482	.0751	.0981	.0018
157.500	-.0882	-.1890	-.4504	-.8743	-.1845	-.1748	-.1112	-.1041	-.1085	-.0970	-.4376	.0734	.0967	.0046
180.000	-.0945	-.2015	-.4651	-.8711	-.1608	-.2236	-.0865	-.0953	9.9990	-.1449	-.4125	.0480	.0701	-.0139
202.500	-.1334	-.2669	-.5182	-.8614	-.1873	-.3492	-.0573	-.0555	-.0600	-.0573	-.4200	.0447	.1495	.0730
225.000	-.1631	-.3272	-.6509	-.9146	-.2928	-.4771	-.0370	-.0334	-.0370	-.0202	-.4931	.0010	.1757	.2269
247.500			-.8640	-.10291	-.3704	-.4707	-.0290	-.0263	-.0307	.0132	-.3475	-.0483	.1113	.2445
270.000	.0036	-.0794	-.3982	-.11455	-.5007	-.0670	-.0378	-.0440	-.0398	-.1962	-.0405	.1107	.1646	

MSFC 967(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER (R62S01)

MACH (1) = .600 ALPHA (2) = -8.000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI			.0789	-.9882	.0658	-.2504	-.0187	.0000	-.0070	.0360	-.5083	-.0283	.0822	.1157
252.500			.0789	-.9882	.0658	-.2504	-.0187	.0000	-.0070	.0360	-.5083	-.0283	.0822	.1157
315.000	.4014	.3828	.1029	-.3858	.0701	-.0945	.0028	.0125	.0063	-.0005	-.6987	.0557	.2957	-.0272
337.500	.4757	.3888	.0830	-.3828	.0195	-.0589	-.0130	9.9990	-.0059	-.0342	-.5571	.1752	.3521	.0505
360.000	.4218	.2991	-.0098	-.5274	-.0834	-.0511	-.0843	-.0440	-.0370	-.0749	-.5341	.1850	.3141	.1328

MACH (1) = .600 ALPHA (3) = -5.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI			-.0785	-.6145	-.0644	-.0483	-.0431	-.0218	-.0120	-.0244	-.4437	.1851	.2939	.1280
22.500			-.0785	-.6145	-.0644	-.0483	-.0431	-.0218	-.0120	-.0244	-.4437	.1851	.2939	.1280
45.000	.1834	.0812	-.2217	-.5941	-.1391	-.1124	-.0991	-.0831	-.0785	-.0831	-.4088	.1886	.2738	.1655
67.500			-.2789	-.6304	-.1570	-.1250	-.1072	-.0876	-.0887	-.0876	-.3958	.1815	.2725	.1440
90.000	.0574	-.0324	-.3136	-.8494	-.1543	-.1232	-.1045	-.0849	-.0849	-.0787	-.3561	.1668	.2478	.1197
112.500			-.3395	-.8606	-.1557	-.1176	-.0909	-.0723	-.0678	-.0421	-.3555	.1469	.2090	.0972
135.000	.0147	-.0877	-.3559	-.8746	-.1411	-.1073	-.0725	-.0565	-.0511	-.0378	-.3777	.1298	.1824	.0825
157.500	.0076	-.0914	-.3782	-.8713	-.1424	-.1066	-.0521	-.0361	-.0423	-.0352	-.3617	.1101	.1659	.0912
180.000	-.0022	-.1170	-.3911	-.8761	-.1276	-.1534	-.0413	-.0297	9.9990	-.0360	-.3252	.0858	.1250	.0734
202.500	-.0102	-.1428	-.4364	-.8939	-.1250	-.2567	-.0289	-.0208	-.0235	-.0119	-.3355	.0661	.1342	.1021
225.000	-.0111	-.1588	-.4528	-.8983	-.1632	-.4785	-.0226	-.0111	-.0146	.0066	-.3999	.0164	.1428	.1917
247.500			-.6222	-.1.0789	-.2350	-.4919	-.0262	-.0173	-.0155	.0069	-.3069	-.0102	.1215	.2168
270.000	.1589	.0992	-.2089	-.1.1988	-.2329	-.4592	-.0432	-.0156	-.0111	.0654	-.1626	-.0175	.1124	.1498
292.500			.0368	-.7060	.0794	-.2466	-.0129	.0066	.0084	.0572	-.4080	-.0128	.0841	.1019
315.000	.3940	.3270	.0093	-.5005	.0431	-.1027	-.0004	.0129	.0164	.0271	-.6115	.0583	.2694	-.0191
337.500	.4018	.3030	.0200	-.5655	-.0013	-.0564	-.0084	9.9990	.0164	.0040	-.4805	.1596	.3172	.0608
360.000	.3452	.2243	-.0795	-.6145	-.0644	-.0493	-.0431	-.0218	-.0120	-.0244	-.4437	.1851	.2939	.1280

MACH (1) = .600 ALPHA (4) = -2.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI			-.1882	-.7214	-.0778	-.0145	-.0422	-.0145	.0032	.0094	-.3817	.1607	.2580	.1081
22.500			-.1882	-.7214	-.0778	-.0145	-.0422	-.0145	.0032	.0094	-.3817	.1607	.2580	.1081
45.000	.1798	.0884	-.2299	-.7838	-.1004	-.0846	-.0486	-.0325	-.0200	-.0119	-.3545	.1989	.2821	.1542
67.500			-.2985	-.8051	-.1044	-.0835	-.0439	-.0279	-.0207	-.0127	-.3469	.1989	.2828	.1523
90.000	.1088	.0138	-.2635	-.8122	-.1026	-.0701	-.0405	-.0227	-.0191	-.0111	-.3288	.1999	.2727	.1481
112.500			-.2802	-.8347	-.1118	-.0565	-.0333	-.0189	-.0154	.0023	-.3071	.1980	.2669	.1480
135.000	.0905	-.0192	-.3015	-.7186	-.1135	-.0585	-.0288	-.0181	-.0146	-.0012	-.2951	.1845	.2461	.1434
157.500	.0848	-.0209	-.3280	-.6514	-.1293	-.0558	-.0245	-.0102	-.0005	-.2951	.1666	.2389	.1490	.1490

TABULATED SOURCE DATA, NSFC TMT 887 (1A38F)

(R82501)

DATE 08 SEP 78 NSFC 887(1A38F) T9 S3/2 S3/2 03 SRM BOOSTER

MACH (1) = .600 ALPHA (4) = -2.000

DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
180.000	.0772	-.0406	-.3317	-.8407	-.1201	-.0794	-.0219	-.0089	9.9990	.0039	-.2843	.1108	.1909	.1392
202.500	.0878	-.0396	-.3608	-.8755	-.1324	-.1048	-.0245	-.0093	-.0048	.0102	-.2975	.0594	.1656	.1701
225.000	.1156	-.0253	-.4215	-.9820	-.1564	-.2002	-.0297	-.0092	-.0056	.0202	-.3576	.0136	.1148	.1930
247.500	.2471	.2061	-.4233	-1.1462	-.1645	-.4170	-.0342	-.0137	-.0029	.0443	-.2484	-.0120	.0950	.1695
292.500														
315.000	.3343	.2477	-.1067	-.6996	-.0004	-.0844	-.0174	.0065	.0263	.0504	-.5329	.0459	.2216	-.0182
337.500	.3088	.2048	-.0835	-.7062	-.0396	-.0602	-.0226	9.9990	.0194	.0284	-.4089	.1405	.2787	.0539
350.000	.2575	.1424	-.1582	-.7214	-.0778	-.0145	-.0422	-.0145	.0032	.0094	-.3917	.1607	.2560	.1091

MACH (1) = .600 ALPHA (5) = .000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1952	.0867	-.2063	-.7790	-.0879	-.0521	-.0378	-.0091	.0168	.0312	-.3483	.1437	.2260	.0882
22.500	.1671	.0651	-.2239	-.7985	-.0897	-.0539	-.0351	-.0082	.0123	.0194	-.3371	.1623	.2407	.1170
45.000	.1478	.0518	-.2442	-.8103	-.0908	-.0468	-.0316	-.0127	.0069	.0222	-.3259	.1859	.2639	.1295
67.500														
90.000	.1208	.0249	-.2592	-.7913	-.0907	-.0432	-.0271	-.0074	.0042	.0178	-.3165	.1934	.2490	.1208
112.500														
135.000	.1177	.0157	-.2749	-.7464	-.1023	-.0405	-.0173	-.0065	.0032	.0156	-.2842	.2131	.2893	.1611
157.500	.1200	.0132	-.2792	-.8507	-.1159	-.0387	-.0172	-.0038	.0006	.0123	-.2878	.1961	.2916	.1768
180.000	.1316	.0123	-.2873	-.8363	-.1141	-.0540	-.0145	-.0011	9.9990	.0168	-.2858	.1310	.2280	.1714
202.500	.1489	.0256	-.3050	-.8743	-.1227	-.0726	-.0190	-.0109	-.0002	.0167	-.2953	.0536	.1815	.1660
225.000	.1799	.0538	-.3411	-.9934	-.1287	-.1182	-.0297	-.0064	-.0001	.0295	-.3707	.0124	.1165	.1946
247.500														
270.000	.2787	.2368	-.0578	-1.1235	-.0999	-.2076	-.0324	-.0099	.0044	.0619	-.2409	-.0118	.0962	.1965
292.500														
315.000	.2781	.1823	-.1212	-.8671	.0456	-.1482	-.0306	.0043	.0295	.0842	-.3061	-.0027	.0867	.0761
337.500	.2493	.1407	-.1762	-.7636	-.0297	-.0852	-.0279	-.0002	.0302	.0506	-.4718	.0501	.2019	-.0172
350.000	.1862	.0867	-.2063	-.7790	-.0879	-.0521	-.0378	-.0091	.0168	.0312	-.3483	.1437	.2260	.0882

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MACH (1) = .600 ALPHA (6) = 2.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238
MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER (R62S01)

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.1320	.0288	-.2638	-.8171	-.1046	-.0289	-.0405	-.0129	.0234	.0483	-.3174	.1276	.1958	.0621
22.500	.1200	.0206	-.2697	-.8371	-.1091	-.0530	-.0344	-.0066	.0223	.0419	-.3314	.1489	.2117	.0971
45.000	.1151	.0234	-.2807	-.8472	-.0982	-.0503	-.0316	-.0123	.0154	.0412	-.3119	.1678	.2202	.1004
67.500	.1173	.0215	-.2791	-.7741	-.1008	-.0476	-.0254	-.0103	.0091	.0349	-.2969	.1756	.2239	.0988
90.000	.1409	.0347	-.2700	-.8420	-.1059	-.0476	-.0281	-.0138	.0030	.0306	-.2889	.2033	.2572	.1412
112.500	.1608	.0472	-.2552	-.8655	-.1094	-.0466	-.0245	-.0139	.0020	.0206	-.2924	.2142	.2949	.1654
157.500	.1962	.0694	-.2419	-.8282	-.1070	-.0512	-.0148	-.0050	9.9990	.0233	-.2864	.1515	.2666	.2046
180.000	.2152	.0873	-.2510	-.8720	-.1089	-.0636	-.0147	-.0032	.0091	.0269	-.3041	.0878	.2108	.2152
202.500	.2463	.1308	-.2581	-.9395	-.0965	-.0911	-.0236	-.0068	.0082	.0411	-.4006	.0210	.1364	.2224
225.000	.2823	.2442	-.1900	-.10581	-.0147	-.1483	-.0227	.0002	.0232	.0763	-.2173	-.0032	.1042	.2090
247.500	.2925	.2796	-.1904	-.0763	-.3295	-.0315	.0003	.0321	.1019	.1019	-.1071	.0118	.1157	.1219
270.000	.2110	.0990	-.2796	-.9282	-.0760	-.1071	-.0378	.0004	.0453	.1028	-.3218	.0120	.1123	.0791
315.000	.1818	.0561	-.2469	-.8118	-.0850	-.0752	-.0298	9.9990	.0377	.0661	-.3301	.1060	.2108	.0225
337.500	.1320	.0288	-.2638	-.8171	-.1046	-.0289	-.0405	-.0129	.0234	.0483	-.3174	.1276	.1958	.0621

MACH (1) = .600 ALPHA (7) = 5.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.0544	-.0431	-.3245	-.2595	-.1109	-.0352	-.0334	-.0053	.0368	.0729	-.3010	.1280	.2026	.0543
22.500	.0525	-.0369	-.3300	-.2324	-.1097	-.0623	-.0334	-.0079	.0306	.0595	-.2966	.1499	.2217	.0827
45.000	.0529	-.0379	-.3249	-.8564	-.1068	-.0600	-.0406	-.0203	.0176	.0520	-.2938	.1485	.1696	.0368
67.500	.0782	-.0140	-.3132	-.8253	-.1126	-.0677	-.0474	-.0280	.0044	.0449	-.2913	.1489	.1582	.0489
90.000	.1625	.0566	-.3000	-.8447	-.1275	-.0791	-.0571	-.0422	-.0131	.0308	-.2802	.1625	.2028	.0768
112.500	.2249	.1058	-.2685	-.8249	-.1290	-.0755	-.0579	-.0483	-.0246	.0236	-.2868	.1699	.2523	.1151
157.500	.2825	.1513	-.2310	-.8428	-.1251	-.0686	-.0492	-.0466	.0027	.0236	-.2861	.2287	.3217	.1691
180.000	.3193	.1969	-.1627	-.7857	-.0879	-.0502	-.0334	-.0273	-.0140	.0053	-.2940	.2427	.3507	.2063
202.500	.3286	.2381	-.1291	-.6589	-.0378	-.0422	-.0087	.0009	9.9990	.0281	-.2994	.2098	.3253	.2360
225.000	.247.500	.2019	-.0677	-.8016	-.0501	-.1530	-.0052	.0088	.0369	.0562	-.4363	.0403	.1749	.2673
247.500	.292.500	.2493	-.0888	-.12527	.0016	-.3716	-.0299	-.0001	.0429	.1123	-.0908	.0597	.1076	.1005
270.000	.292.500	.1054	-.4044	-.10969	-.1288	-.3885	-.0334	.0071	.0530	.1087	-.2393	.0280	.1221	.0755
315.000	.0762	-.0369	-.3976	-.9288	-.1170	-.1839	-.0273	.0113	.0579	.0975	-.3703	.0604	.1806	-.0106
337.500	.0544	-.0431	-.3291	-.8617	-.1018	-.1018	-.0281	9.9990	.0543	.0911	-.2963	.0970	.1923	.0044
360.000	.0544	-.0431	-.3316	-.8585	-.1109	-.0352	-.0334	-.0053	.0368	.0729	-.3010	.1280	.2026	.0543

ORIGINAL PAGE IS
OF POOR QUALITY

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER (R82501)

MACH (1) = .600 ALPHA (8) = 8.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	-.0211	-.1056	-.3739	-.7594	-.0961	-.0705	-.0248	.0035	.0485	.0935	-.3311	.1564	.2606	.0787
22.500	-.0227	-.1049	-.3665	-.8269	-.1084	-.0961	-.0484	-.0272	.0019	.0328	-.3042	.1394	.1986	.0354
45.000	-.0255	-.1058	-.3607	-.7632	-.1190	-.0908	-.0678	-.0387	.0062	.0529	-.3055	.1211	.1264	-.0166
67.500	-.3731	-.8725	-.1639	-.1234	-.1031	-.0713	-.0130	.0477	-.3123	.1320	.1390	.1320	.1390	-.0052
90.000	-.0123	-.0678	-.3378	-.8167	-.1825	-.1375	-.1243	-.1031	-.0555	.0317	-.3103	.1361	.1538	.0141
112.500	-.2901	-.8176	-.8176	-.8176	-.1349	-.1261	-.1137	-.0811	-.0070	-.2922	.1679	.2173	.0645	.1443
135.000	.1755	.0732	-.2081	-.6668	-.1490	-.1031	-.0917	-.0872	-.0608	-.0211	-.2956	.2209	.2974	.1443
157.500	.2825	.1637	-.1363	-.6986	-.1161	-.0580	-.0483	-.0386	-.0263	-.0017	-.3079	.2596	.3625	.2140
180.000	.3746	.2447	-.0732	-.6562	-.0582	-.0325	.0000	.0089	8.9990	.0398	-.3368	.2688	.3970	.2767
202.500	.4083	.2957	-.0342	-.6141	-.0228	-.0307	0.246	.0308	.0413	.0625	-.3682	.2161	.3731	.3069
225.000	.3957	.3243	.0000	-.4933	.0150	-.0642	.0335	.0397	.0494	.0873	-.4878	.0954	.2481	.3072
247.500	.1992	.0273	-.6721	.0723	-.1922	-.0185	.0300	.0564	.1305	-.1922	.0360	.0360	.1383	.2776
270.000	-.0378	-.1748	-.1.0597	-.1824	-.4062	-.0431	-.0024	.0549	.1513	-.0766	.0373	.1300	.1300	.1000
292.500	-.0396	-.1447	-.4000	-.8072	-.0873	-.2127	-.0131	9.9990	.0734	.1131	-.3073	.1283	.2511	.0063
315.000	-.0211	-.1066	-.3739	-.7594	-.0961	-.0705	-.0246	.0035	.0485	.0935	-.3311	.1564	.2606	.0787

MACH (1) = .600 ALPHA (9) = 10.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	-.0735	-.1554	-.4075	-.7469	-.1064	-.1055	-.0352	-.0147	.0288	.0903	-.3767	.1542	.2559	.0736
22.500	-.0805	-.1634	-.4040	-.8229	-.1197	-.1447	-.0752	-.0734	-.0591	-.0137	-.3403	.1333	.2021	.0137
45.000	-.0957	-.1704	-.4141	-.8180	-.1553	-.1348	-.1063	-.0761	-.0227	.0421	-.3599	.1173	.1057	-.0559
67.500	-.0574	-.1206	-.3657	-.8456	-.2362	-.2060	-.1962	-.1704	-.0982	.0261	-.3274	.1162	.1147	-.0370
90.000	-.3197	-.8238	-.2323	-.1949	-.1913	-.1788	-.1360	-.1080	-.0396	-.3094	.1441	.1781	.1206	-.0307
112.500	.1628	.0615	-.2111	-.7218	-.1844	-.1498	-.1409	-.1391	-.1080	-.0521	-.3237	.1986	.2718	.1200
135.000	.3095	.1874	-.1127	-.6632	-.1278	-.0815	-.0770	-.0735	-.0592	-.0236	-.3335	.2558	.3745	.2133
157.500	.4274	.2913	-.0246	-.5703	-.0469	-.0335	-.0014	.0030	9.9990	.0366	-.3559	.3015	.4297	.2917
180.000	.4655	.3597	.0341	-.5004	.0065	-.0138	.0403	.0421	.0510	.0768	-.3855	.2514	.4137	.3300
202.500	.4273	.3712	.0732	-.3665	.0475	-.0467	.0492	.0482	.0581	.1044	-.5076	.1182	.2816	.3388
225.000	.0779	-.5474	.0905	-.1786	.0342	-.1786	.0492	.0492	.0581	.1044	-.5076	.1182	.2816	.3388
247.500	.0787	.0075	-.2834	-.1.0060	-.3314	-.4035	-.0440	-.0030	.0600	.1748	-.0770	.0457	.1391	.1071
270.000	-.7237	-.8764	-.2845	-.4122	-.0049	.0234	.0793	.1450	-.2737	.0502	.1504	.0691	.2120	-.0218
292.500	-.1439	-.2846	-.5759	-.8503	-.4209	-.0084	.0253	.0823	.1286	-.3585	.0871	.2120	-.0218	.0012
315.000	-.1069	-.2143	-.4309	-.7221	-.1149	-.2632	-.0119	9.9990	.0741	.1229	-.3207	.1435	.2716	.0012
337.500	-.0735	-.1554	-.4075	-.7469	-.1064	-.1055	-.0352	-.0147	.0288	.0903	-.3767	.1542	.2559	.0736

(R82501)

MSFC 567(1A32F) TB 63/2 53/2 03 SRM BOOSTER

MACH (2) = .900 ALPHA (1) = -10.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.965

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI	.000	.6059	.4920	.2261	-.7332	-.0847	-.2856	-.1237	.0000	-.0578	-.6232	.1413	.3785	.1906
22.500	.4703	.3434	.1085	-.7845	-.2066	-.3721	-.1889	-.1200	-.0908	-.1848	-.6138	.1262	.3338	.2486
45.000	.2810	.1739	-.0265	-.9160	-.3587	-.4848	-.2626	-.2278	-.1999	-.2511	-.6005	.0820	.2476	.2272
67.500	.0641	.0001	-.1484	-1.0311	-.4859	-.3839	-.3457	-.2824	-.2662	-.3012	-.5564	.0419	.1685	.1592
90.000	.0000	-.0238	-.2312	-1.1102	-.5715	-.4280	-.3814	-.2958	-.2511	-.2369	-.4854	.0102	.0974	.0654
112.500	.0000	-.0500	-.2948	-1.1338	-.5239	-.3810	-.3349	-.2113	-.1522	-.1203	-.4903	.0088	.0397	.0009
135.000	.0000	-.1265	-.2947	-1.1065	-.5053	-.3358	-.2693	-.1500	-.1260	-.1160	-.4993	.0051	.0294	.0187
157.500	.0245	-.1114	-.2371	-1.1155	-.4847	-.3151	-.2329	-.1528	-.1360	-.1240	-.4867	.0082	.0364	.0118
180.000	.0245	-.1225	-.2514	-1.0764	-.4595	-.3777	-.2006	-.1712	9.9990	-.1807	-.4676	.0317	.1340	.172
202.500	.0977	-.1667	-.3295	-.9788	-.6314	-.4582	-.1563	-.0736	-.0935	-.1013	-.5074	.0317	.1340	.172
225.000	-.1457	-.3372	-.5466	-.6683	-.6538	-.4857	-.1493	-.0297	-.0250	.0103	-.5507	.0847	.0892	.2627
247.500	.0045	.0220	-.0449	-.7209	-.3101	-.4671	-.1271	.0039	.0070	.0385	-.3580	.1303	-.0092	.2115
270.000	.0000	.0000	-.0449	-.7209	-.3101	-.4671	-.1271	.0039	.0070	.0385	-.3580	.1303	-.0092	.2115
292.500	.0000	.0000	.3810	-.5131	.1769	-.3671	-.0678	.0425	.0508	.0718	-.6503	.1151	-.0176	.0630
315.000	.0000	.0000	.3712	-.5365	.1837	-.2550	-.0527	.0478	.0651	.0468	-.7351	-.0695	.1633	.0548
337.500	.0000	.0000	.3389	-.5871	.0905	-.2294	-.0626	9.9990	.0534	.0074	-.6099	.0880	.3909	.0838
360.000	.0000	.0000	.2261	-.7332	-.0847	-.2856	-.1237	-.0323	.0000	-.0579	-.6232	.1413	.3785	.1906

MACH (2) = .900 ALPHA (2) = -8.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.965

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI	.000	.5949	.4426	.1917	-.7323	-.0878	-.2281	-.1215	-.0270	.0086	-.0244	.1504	.3651	.1970
22.500	.4382	.3184	.0864	-.8551	-.2586	-.4203	-.2586	-.1719	-.0905	-.0595	-.1115	.5793	.1370	.3250
45.000	.2938	.1824	-.0128	-.9449	-.3221	-.3058	-.2302	-.1651	-.1383	-.1740	-.5659	.1021	.2516	.2322
67.500	.0641	.0001	-.0984	-1.0336	-.4059	-.3749	-.2700	-.1986	-.1760	-.2033	-.5231	.0766	.1938	.1730
90.000	.0000	-.0238	-.1523	-1.0895	-.4825	-.3541	-.2834	-.2053	-.1759	-.1743	-.4855	.0442	.1391	.1003
112.500	.0000	-.0563	-.1744	-1.1122	-.4865	-.3176	-.2583	-.1608	-.1162	-.0795	-.4646	.0265	.0879	.0480
135.000	.0000	-.1739	-.1739	-1.1026	-.4645	-.2716	-.2100	-.1060	-.0793	-.0683	-.4692	.0305	.0703	.0252
157.500	.0352	-.0480	-.1884	-1.1004	-.4508	-.2623	-.1727	-.0988	-.0883	-.0742	-.4498	.0268	.0683	.0238
180.000	.0339	-.0626	-.2065	-1.0468	-.4799	-.3380	-.1520	-.0931	9.9990	-.1194	-.4487	.0268	.0683	.0238
202.500	.0011	-.1161	-.2774	-.9584	-.6043	-.4273	-.1172	-.0328	-.0349	-.0333	-.4578	.0016	.1225	.0915
225.000	-.0364	-.1918	-.4588	-.6858	-.6758	-.4841	-.1201	-.0085	.0020	.0193	-.5282	.0659	.1041	.2416
247.500	.1586	.1376	-.6274	-.6767	-.4521	-.4521	-.1026	.0212	.0285	.0621	-.3532	-.1102	.0048	.2165
270.000	.0000	.0000	.0440	-.7262	-.2440	-.4501	-.0784	.0319	.0350	.0839	-.2266	-.1213	-.0276	.0751
292.500	.0000	.0000	.3717	-.6186	.1626	-.3496	.0381	.0512	.0812	.0812	-.5187	-.1120	-.0222	.0716
315.000	.0000	.0000	.3263	-.6369	.1393	-.2546	.0618	.0255	.0587	.0613	-.6667	-.0532	.1733	.0439
337.500	.0000	.0000	.3017	-.6700	.0704	-.2232	-.0721	9.9990	.0536	.0316	-.5764	.0965	.3789	.0939
360.000	.0000	.0000	.1917	-.7323	-.0878	-.2281	-.1215	-.0270	.0086	-.0244	-.6232	.1413	.3785	.1906

(R82501)

MSFC 567(1A32F) 19 S3/2 S3/2 03 SRM BOOSTER

MACH (2) = .900 ALPHA (3) = -5.000 Q = 7.3509 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.4800	.3823	.1827	-.7883	-.0580	-.1941	-.1116	-.0191	.0202	.0223	-.5443	.1437	.3116	.1753
22.500	.3882	.2858	.0813	-.9318	-.1954	-.2288	-.1344	-.0491	.0154	-.3823	-.5183	.1403	.2858	.2283
45.000	.2948	.2143	.0107	-1.0088	-.8212	-.2294	-.1526	-.0780	-.0517	-.0811	-.5145	.1187	.2424	.2214
67.500			-.0454	-1.0455	-.8781	-.2308	-.1817	-.0901	-.0701	-.0775	-.4811	.1172	.2308	.1878
90.000	.1828	.0858	-.0725	-1.0808	-.8250	-.2071	-.1348	-.0840	-.0641	-.0620	-.4405	.0938	.2073	.1658
112.500			-.1053	-1.0785	-.8815	-.1874	-.1385	-.0686	-.0454	-.0189	-.4311	.0804	.1585	.1276
135.000	.1188	.0408	-.1137	-1.0558	-.8008	-.1705	-.1153	-.0480	-.0270	-.0091	-.4465	.0775	.1413	.1053
157.500	.1248	.0408	-.1183	-1.0847	-.8457	-.1840	-.0978	-.0301	-.0253	-.0148	-.3907	.0818	.1211	.1027
180.000	.1150	.0240	-.1342	-1.0286	-.8580	-.2640	-.0879	-.0185	9.9990	-.0180	-.3811	.0207	.0680	.0580
202.500	.1105	.0882	-.0812	-.9487	-.8362	-.3482	-.0754	.0030	.0046	.0199	-.3865	.0075	.0776	.0855
225.000	.1216	.0103	-.2584	-.7737	-.8629	-.4014	-.0810	.0145	.0213	.0486	-.4707	-.0054	.0795	.1798
247.500			-.2724	-.6957	-.8862	-.4070	-.0816	.0219	.0350	.0792	-.3289	-.0945	.0257	.1879
270.000	.2950	.2685	.2001	-.8250	-.1578	-.4139	-.0784	.0193	.0393	.1008	-.2025	-.1071	.0122	.0897
292.500	.4955	.4782	.3466	-.7313	.1456	-.3135	-.0674	.0317	.0579	.1015	-.4282	-.0947	-.0323	.0690
315.000	.5209	.4437	.2518	-.8036	.1008	-.2512	-.0726	.0050	.0532	.0796	-.6021	-.0312	.1780	-.0312
337.500	.4600	.3623	.1227	-.7983	-.0580	-.1941	-.1116	-.0191	.0438	.0590	-.5131	.1044	.3475	.0952
360.000									.0202	.0223	-.5443	.1437	.3116	.1753

MACH (2) = .900 ALPHA (4) = -2.000 Q = 7.3509 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.3818	.2948	.0881	-.9042	-.0444	-.1443	-.1138	-.0014	.0431	.0726	-.4665	.1433	.2711	.1556
22.500	.3275	.2439	.0419	-1.0049	-.1185	-.2069	-.0995	-.0117	.0256	.0371	-.4415	.1397	.2505	.2022
45.000	.2855	.2057	.0133	-1.0230	-.1807	-.1309	-.0936	-.0213	.0112	.0280	-.4389	.1442	.2493	.1983
67.500			-.0139	-1.0330	-.2647	-.1062	-.0795	-.0144	.0123	.0264	-.4110	.1429	.2576	.2055
90.000	.2208	.1391	-.0211	-1.0501	-.3744	-.1068	-.0695	-.0148	.0093	.0266	-.3864	.1362	.2315	.1968
112.500			-.0438	-1.0580	-.4189	-.0811	-.0522	-.0075	.0145	.0408	-.3638	.1348	.2241	.1968
135.000	.2069	.1249	-.0417	-1.0569	-.4271	-.0790	-.0396	-.0033	.0182	.0387	-.3321	.1271	.2139	.1918
157.500	.2078	.1173	-.0579	-1.0644	-.4401	-.1011	-.0316	.0036	.0194	.0383	-.3247	.1124	.2026	.1941
180.000	.2082	.1066	-.0748	-1.0486	-.4436	-.1621	-.0290	.0056	9.9990	.0430	-.3196	.0288	.1199	.1941
202.500	.2237	.1225	-.0851	-1.0576	-.4670	-.2357	-.0232	.0122	.0255	.0517	-.3322	.0003	.0854	.1584
225.000	.2559	.1548	-.0899	-1.0553	-.5492	-.3413	-.0301	.0112	.0306	.0662	-.4192	-.0333	.0550	.1543
247.500	.3836	.3910	-.0138	-.9680	-.6759	-.3680	-.0422	.0123	.0423	.0975	-.2649	-.0684	.0345	.1501
270.000			.3165	-.8855	-.2740	-.3550	-.0659	.0019	.0477	.1207	-.1689	-.0674	.0350	.0923
292.500			.2946	-.8277	-.0894	-.2350	-.0653	.0171	.0655	.1254	-.3945	-.0559	.0197	.0755
315.000	.4519	.4067	.1683	-.8855	.0139	-.1913	-.0689	.0050	.0659	.1127	-.5335	.0024	.2131	-.2201
337.500	.4373	.3541	.1498	-.9097	.0335	-.1675	-.0754	9.9990	.0535	.0940	-.4434	.1144	.3136	.5975
360.000	.3818	.2948	.0881	-.9042	-.0444	-.1443	-.1138	-.0014	.0431	.0726	-.4665	.1433	.2711	.1556

MACH (2) = .900 ALPHA (8) = .000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985
 MSFC 567(1A32F) TO 83/2 83/2 03 SRM BOOSTER (R82S01)

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.3108	.2288	.0312	-1.0080	-.0827	-1.137	-.0926	-.0049	.0444	.0843	-.4220	.1144	.2145	.1208
22.500	.2659	.1894	.0138	-1.0266	-.1502	-1.072	-.0873	-.0034	.0405	.0689	-.4081	.1160	.2009	.1520
45.000	.2592	.1857	-.0080	-1.0390	-.2051	-.0780	-.0748	-.0071	.0343	.0669	-.4035	.1283	.2218	.1803
67.500	.2418	.1588	-.0202	-1.0411	-.2597	-.0580	-.0579	-.0023	.0317	.0632	-.3807	.1388	.2260	.1851
90.000	.2418	.1588	-.0294	-1.0441	-.3279	-.0517	-.0508	-.0044	.0265	.0564	-.3524	.1447	.2264	.1871
112.500	.2448	.1537	-.0234	-1.0382	-.4065	-.0375	-.0391	-.0014	.0258	.0641	-.3379	.1541	.2517	.2108
135.000	.2448	.1537	-.0207	-1.0423	-.4846	-.0380	-.0307	-.0040	.0237	.0531	-.3302	.1541	.2654	.2344
157.500	.2597	.1593	-.0312	-1.0482	-.5651	-.0443	-.0265	-.0028	.0243	.0489	-.3292	.1267	.2557	.2453
180.000	.2651	.1661	-.0339	-1.0442	-.6283	-.0833	-.0213	.0070	.0305	.0579	-.3194	.0514	.1620	.2112
202.500	.2308	.1192	-.0250	-1.0533	-.5008	-.1350	-.0197	.0079	.0349	.0790	-.4418	-.0312	.1081	.1832
225.000	.4087	.1168	-.1028	-1.0568	-.5157	-.2083	-.0270	.0102	.0413	.1060	-.2511	-.0601	.0422	.1493
247.500	.3405	.2871	.3484	-.8469	-.5690	-.2818	-.0501	.0024	.0526	.1360	-.1605	-.0601	.0444	.0844
292.500	.4014	.3893	.2341	-.6871	-.4158	-.1804	-.0758	.0078	.0681	.1432	-.4023	-.0469	.0308	.0744
315.000	.3108	.2288	.0863	-.9738	-.1299	-.1357	-.0727	-.0018	.0708	.1315	-.4960	.0147	.2126	-.0142
337.500	.2746	.1962	.0635	-.9851	-.0086	-.1230	-.0782	.0388	.0588	.1147	-.4176	.1023	.2574	.0807
360.000	.2746	.1962	.0312	-1.0080	-.0827	-1.137	-.0958	-.0049	.0444	.0843	-.4220	.1144	.2145	.1208

MACH (2) = .900 ALPHA (8) = 2.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.2746	.1962	.0074	-.8939	-.2509	-.0605	-1015	.0069	.0650	.1117	-.3924	.0969	.1722	.0849
22.500	.2507	.1786	.0011	-1.0116	-.3184	-.0959	-.0947	.0063	.0619	.1008	-.3761	.1025	.1711	.1175
45.000	.2414	.1669	-.0141	-1.0232	-.3055	-.0562	-.0771	-.0006	.0519	.0967	-.3722	.1194	.1876	.1387
67.500	.2408	.1623	-.0137	-1.0182	-.3829	-.0220	-.0584	.0039	.0477	.0914	-.3542	.1364	.2086	.1561
90.000	.2685	.1789	-.0080	-1.0169	-.5716	-.0142	-.0506	.0013	.0408	.0818	-.3391	.1488	.2258	.1800
112.500	.2894	.2007	-.0024	-1.0133	-.6744	-.0039	-.0408	-.0008	.0395	.0838	-.3317	.1574	.2553	.2230
135.000	.3315	.2285	.0065	-1.0140	-.6745	-.0079	-.0355	-.0059	.0289	.0659	-.3292	.1645	.2692	.2679
157.500	.3583	.2631	.0123	-1.0081	-.6808	-.0074	-.0287	-.0029	.0305	.0607	-.3324	.1520	.2982	.2883
182.000	.3917	.3204	.0274	-1.0018	-.6987	-.0266	-.0178	.0118	.0360	.0736	-.3333	.0894	.2217	.2711
202.500	.4225	.3534	.0461	-1.0045	-.6898	-.0512	-.0184	.0122	.0409	.0794	-.3459	.0499	.1542	.2461
225.000	.4350	.3630	.0783	-.9962	-.5455	-.0932	-.0251	.0128	.0461	.0930	-.4371	-.0075	.0875	.2233
247.500	.2929	.2315	.2118	-.8985	-.6095	-.1534	-.0387	.0131	.0613	.1277	-.2773	-.6620	.0381	.1769
270.000	.3130	.2315	.3721	-.8153	-.5447	-.1790	-.0636	-.0060	.0630	.1467	-.1378	-.0541	.0479	.0934
292.500	.3130	.2315	.1687	-.9125	-.5311	-.1368	-.0683	.0074	.0805	.1527	-.3211	-.0528	.0459	.0919
315.000	.2746	.1962	.0432	-.9789	-.4242	-.1139	-.0750	.0120	.0868	.1464	-.4867	-.0059	.0665	.0169
337.500	.2746	.1962	.0292	-.9898	-.2182	-.1056	-.0870	.0388	.0774	.1361	-.3877	.0789	.2101	.0525
360.000	.2746	.1962	.0074	-.9939	-.2509	-.0505	-.1015	.0069	.0650	.1117	-.3924	.0969	.1722	.0849

(R02S011)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER

MACH (2) = .900 ALPHA (7) = 5.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.965

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.020	.1813	.1078	-.0600	-1.0026	-.2732	-.0490	-.0746	.0140	.0797	.1318	-.3736	.0866	.1520	.0527
22.500	-.1708	.1055	-.0599	-1.0383	-.2608	-.0800	-.0758	.0072	.0699	.1190	-.3525	.1013	.1759	.0939
45.000	.1719	.1028	-.0584	-1.0485	-.2862	-.0558	-.0787	-.0099	.0515	.1068	-.3505	.1157	.1635	.0594
67.500			-.0621	-1.0409	-.3180	-.0397	-.0773	-.0214	.0386	.0997	-.3563	.1152	.1496	.0577
90.000	.1920	.1192	-.0449	-1.0447	-.3685	-.0480	-.0773	-.0339	.0214	.0905	-.3504	.1317	.1901	.1260
112.500			-.0182	-1.0252	-.5113	-.0433	-.0705	-.0386	.0062	.0788	-.3469	.1546	.2581	.1968
135.000	.2899	.2075	.0176	-1.0052	-.5618	-.0376	-.0579	-.0386	.0040	.0546	-.3469	.1897	.3342	.2595
157.500	.3546	.2520	.0483	-.9843	-.5737	-.0241	-.0397	-.0142	.0160	.0540	-.3574	.1981	.3481	.3027
180.000	.4113	.3026	.0867	-.9660	-.4989	-.0261	-.0120	.0139	.09990	.0805	-.3457	.1578	.2913	.3179
202.500	.4476	.3539	.1138	-.9562	-.5193	-.0402	-.0053	.0201	.0513	.0945	-.3685	.1225	.2496	.3158
225.000	.4622	.4085	.1713	-.9213	-.4302	-.0752	-.0090	.0232	.0545	.1129	-.4836	.0129	.1312	.2854
247.500			.2887	-.8196	-.3842	-.1256	-.0245	.0202	.0724	.1495	-.2549	-.0548	.0425	.2150
270.000	.3799	.3625	.3189	-.8212	-.4166	-.1904	-.0678	.0045	.0848	.1719	-.1142	-.0547	.0558	.0950
292.500			-.0174	-.7351	-.6475	-.1839	-.0718	.0110	.0935	.1614	-.2804	-.0527	.0551	.0770
315.000	.2340	.1448	-.0905	-.8943	-.5686	-.1631	-.0620	.0157	.0971	.1547	-.4247	.0014	.1457	-.0162
337.500	.2067	.1235	-.0610	-.9509	-.3778	-.0990	-.0662	.09990	.0939	.1516	-.3495	.0714	.1731	.0234
360.000	.1813	.1078	-.0600	-1.0026	-.2732	-.0490	-.0746	.0140	.0797	.1318	-.3736	.0866	.1520	.0527

MACH (2) = .900 ALPHA (8) = 8.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.965

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.0910	.0233	-.1248	-.9585	-.2892	-.1314	-.0590	.0128	.0758	.1351	-.3822	.1001	.2041	.0717
22.500	.0877	.0263	-.1130	-.9569	-.3321	-.1560	-.0784	-.0150	.0363	.0814	-.3501	.0993	.1783	.0462
45.000	.0750	.0143	-.1160	-.9893	-.3380	-.1040	-.0893	-.0333	.0321	.0928	-.3476	.0907	.1123	.0053
67.500			-.1161	-1.0434	-.3022	-.1130	-.1261	-.0601	.0253	.1008	-.3546	.0960	.1160	.0022
90.000	.1095	.0530	-.1071	-1.0663	-.2605	-.1380	-.1537	-.1066	-.0202	.0896	-.3556	.1103	.1412	.0479
112.500			-.0480	-1.0338	-.2121	-.1353	-.1473	-.1180	-.0548	.0533	-.3382	.1478	.2384	.1331
135.000	.2050	.2052	.0240	-.9892	-.1791	-.1112	-.1117	-.0955	-.0444	.0224	-.3583	.2056	.3256	.2318
157.500	.4069	.2985	.0755	-.8998	-.1050	-.0710	-.0663	-.0422	-.0108	.0347	-.3751	.2501	.4127	.3309
180.000	.4966	.3788	.1356	-.9249	-.0250	-.0511	-.0088	.0131	.09990	.0790	-.3719	.2565	.4174	.3860
202.500	.5329	.4405	.1848	-.8898	.0212	-.0544	.0170	.0391	.0664	.1053	-.4008	.2052	.3791	.3970
225.000	.5210	.4784	.2459	-.8470	.0464	-.0895	.0243	.0485	.0752	.1272	-.5183	.0444	.1653	.3444
247.500			.3339	-.7437	.0533	-.1941	.0045	.0402	.0854	.1262	-.2202	-.0328	.0538	.2433
270.000	.2925	.2820	.2022	-.7859	-.2033	-.3261	-.0438	.0259	.0999	.1844	-.0837	-.0284	.0675	.3791
292.500			-.3036	-.5918	-.5956	-.3293	.0410	.0271	.1054	.1721	-.2299	-.0191	.1499	.3696
315.000	.0774	-.0191	-.2699	-.6478	-.9560	-.3130	-.0401	.0270	.1073	.1645	-.3845	.0191	.1499	-.0107
337.500	.0795	-.0033	-.1618	-.8115	-.3954	-.2405	-.0416	.09990	.1042	.1624	-.3245	.0876	.2153	.0213
360.000	.0910	.0233	-.1248	-.9585	-.2892	-.1314	-.0590	.0128	.0758	.1351	-.3822	.1001	.2041	.0717

DATE 05 SEP 75

TABLATED SOURCE DATA, MSFC TMT 967 (11A32F)

AGE 271

(R825011)

MACH (2) = .800 ALPHA (9) = 10.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

MSFC 967(11A32F) TO 53/2 53/2 03 SRM BOOSTER

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.0300	-.0370	-.1651	-.0271	-.3152	.1224	-.0649	-.0108	.0484	-.1082	-.3847	.0626	.1549	.0416
22.500	.0165	-.0438	-.1657	-.9071	-.3580	-.1305	-.1032	-.0627	-.0191	.0360	-.3445	.0632	.1055	-.0312
45.000	-.0060	-.0601	-.1787	-.7549	-.4316	-.1409	-.1330	-.0579	.0096	.0752	-.3421	.0561	.0755	-.0465
67.500	.0332	-.0118	-.1559	-.10171	-.2884	-.1999	-.2208	-.1595	-.0343	.0834	-.3506	.0825	.0961	-.0192
90.000	.0300	-.0370	-.1651	-.0271	-.3152	.1224	-.0649	-.0108	.0484	-.1082	-.3847	.0626	.1549	.0416
112.500	.0165	-.0438	-.1657	-.9071	-.3580	-.1305	-.1032	-.0627	-.0191	.0360	-.3445	.0632	.1055	-.0312
135.000	-.0060	-.0601	-.1787	-.7549	-.4316	-.1409	-.1330	-.0579	.0096	.0752	-.3421	.0561	.0755	-.0465
157.500	.0332	-.0118	-.1559	-.10171	-.2884	-.1999	-.2208	-.1595	-.0343	.0834	-.3506	.0825	.0961	-.0192
180.000	.0300	-.0370	-.1651	-.0271	-.3152	.1224	-.0649	-.0108	.0484	-.1082	-.3847	.0626	.1549	.0416
202.500	.0165	-.0438	-.1657	-.9071	-.3580	-.1305	-.1032	-.0627	-.0191	.0360	-.3445	.0632	.1055	-.0312
225.000	-.0060	-.0601	-.1787	-.7549	-.4316	-.1409	-.1330	-.0579	.0096	.0752	-.3421	.0561	.0755	-.0465
247.500	.0332	-.0118	-.1559	-.10171	-.2884	-.1999	-.2208	-.1595	-.0343	.0834	-.3506	.0825	.0961	-.0192
270.000	.0300	-.0370	-.1651	-.0271	-.3152	.1224	-.0649	-.0108	.0484	-.1082	-.3847	.0626	.1549	.0416
292.500	.0165	-.0438	-.1657	-.9071	-.3580	-.1305	-.1032	-.0627	-.0191	.0360	-.3445	.0632	.1055	-.0312
315.000	-.0060	-.0601	-.1787	-.7549	-.4316	-.1409	-.1330	-.0579	.0096	.0752	-.3421	.0561	.0755	-.0465
337.500	.0332	-.0118	-.1559	-.10171	-.2884	-.1999	-.2208	-.1595	-.0343	.0834	-.3506	.0825	.0961	-.0192
360.000	.0300	-.0370	-.1651	-.0271	-.3152	.1224	-.0649	-.0108	.0484	-.1082	-.3847	.0626	.1549	.0416

MACH (3) = 1.050 ALPHA (1) = -10.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.982

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.7514	.6533	.4211	-.4172	.1432	-.0989	-.2462	-.1209	.1134	.0785	-.6322	.1802	.4618	.2481
22.500	.6294	.5140	.3100	-.4905	.0083	-.1269	-.3272	-.2731	.0239	-.0338	-.6522	.1927	.4278	.3155
45.000	.4487	.3533	.1831	-.6108	-.1315	-.2962	-.4507	-.4237	-.0853	-.1465	-.6504	.1521	.3674	.3079
67.500	.1257	.1080	-.0068	-.7574	-.3393	-.4886	-.5051	-.3942	.1407	-.2008	-.6296	.0960	.2703	.2661
90.000	.0300	-.0370	-.1651	-.0271	-.3152	.1224	-.0649	-.0108	.0484	-.1082	-.3847	.0626	.1549	.0416
112.500	.0165	-.0438	-.1657	-.9071	-.3580	-.1305	-.1032	-.0627	-.0191	.0360	-.3445	.0632	.1055	-.0312
135.000	-.0060	-.0601	-.1787	-.7549	-.4316	-.1409	-.1330	-.0579	.0096	.0752	-.3421	.0561	.0755	-.0465
157.500	.0332	-.0118	-.1559	-.10171	-.2884	-.1999	-.2208	-.1595	-.0343	.0834	-.3506	.0825	.0961	-.0192
180.000	.0300	-.0370	-.1651	-.0271	-.3152	.1224	-.0649	-.0108	.0484	-.1082	-.3847	.0626	.1549	.0416
202.500	.0165	-.0438	-.1657	-.9071	-.3580	-.1305	-.1032	-.0627	-.0191	.0360	-.3445	.0632	.1055	-.0312
225.000	-.0060	-.0601	-.1787	-.7549	-.4316	-.1409	-.1330	-.0579	.0096	.0752	-.3421	.0561	.0755	-.0465
247.500	.0332	-.0118	-.1559	-.10171	-.2884	-.1999	-.2208	-.1595	-.0343	.0834	-.3506	.0825	.0961	-.0192
270.000	.0300	-.0370	-.1651	-.0271	-.3152	.1224	-.0649	-.0108	.0484	-.1082	-.3847	.0626	.1549	.0416
292.500	.0165	-.0438	-.1657	-.9071	-.3580	-.1305	-.1032	-.0627	-.0191	.0360	-.3445	.0632	.1055	-.0312
315.000	-.0060	-.0601	-.1787	-.7549	-.4316	-.1409	-.1330	-.0579	.0096	.0752	-.3421	.0561	.0755	-.0465
337.500	.0332	-.0118	-.1559	-.10171	-.2884	-.1999	-.2208	-.1595	-.0343	.0834	-.3506	.0825	.0961	-.0192
360.000	.0300	-.0370	-.1651	-.0271	-.3152	.1224	-.0649	-.0108	.0484	-.1082	-.3847	.0626	.1549	.0416

ORIGINAL PAGE IS OF POOR QUALITY

(R8250:1)

MSFC 567(1A32F) TO 53/2 53/2 03 SRM BOOSTER

MACH (3) = 1.050 ALPHA (2) = -8.000 0 = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.982

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
Phi	.000	.6058	.3805	-.4134	.1358	-.1107	-.2185	-.2575	.1120	.1060	-.6027	.2003	.4578	.2648
22.500	.5978	.4938	.2962	-.0477	.0139	-.1619	-.2501	-.3351	.0433	.0102	-.6049	.2060	.4234	.3345
45.000	.4659	.3768	.2071	-.6377	-.0943	-.2565	-.3029	-.3985	-.6292	-.0540	-.6140	.1670	.3589	.3331
67.500			.1189	-.6975	-.1916	-.3517	-.3682	-.4186	-.0751	-.1182	-.5804	.1168	.2744	.2937
90.000	.2388	.1828	.0680	-.7382	-.2675	-.3731	-.4195	-.3492	-.0787	-.0958	-.5331	.0714	.1758	.2083
112.500			.0512	-.7473	-.3846	-.2175	-.4249	-.2344	-.0192	.0420	-.5328	.0611	.1170	.1257
135.000	.1912	.1325	.0408	-.7555	-.5272	-.1672	-.3539	-.1947	-.0053	.0413	-.5382	.0792	.1228	.0921
157.500	.2151	.1428	.0402	-.7521	-.5234	-.1684	-.2641	-.1936	-.0352	.0465	-.4865	.0728	.1285	.0870
180.000	.2092	.1341	.0188	-.7520	-.4824	-.2768	-.2105	-.1624	9.9990	.0421	-.4557	.0595	.1154	.0627
202.500	.1732	.0907	-.0498	-.7837	-.5081	-.4241	-.1355	-.0654	.0756	.1086	-.4872	.0276	.1824	.1864
225.000	.1477	.0132	-.2168	-.6506	-.6057	-.4849	-.1024	-.0375	.0884	.1349	-.4988	-.0651	.1824	.2600
247.500			-.3867	-.6255	-.6411	-.4637	-.1007	-.0315	.1031	.1658	-.3104	-.1156	-.0296	.1679
270.000	.3080	.2083	.2373	-.6070	-.0802	-.4602	-.1527	-.0393	.1171	.1955	-.2072	-.1127	-.0406	.0308
292.500			.5356	-.3330	.3309	.3031	.1710	-.0737	.1368	.1983	-.5883	-.0987	-.0407	.0461
315.000	.6687	.6834	.5023	-.3701	.3186	.1442	-.1712	-.1176	.1504	.1811	-.6241	-.0512	.1515	-.0530
337.500	.7372	.8840	.4651	-.3911	.2579	-.0916	-.1856	9.9990	.1496	.1556	-.5647	.1098	.4062	.1281
360.000	.7006	.6059	.3905	-.4134	.1368	-.1107	-.2185	-.2575	.1120	.1050	-.6027	.2003	.4578	.2648

MACH (3) = 1.050 ALPHA (3) = -5.000 0 = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.982

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
Phi	.000	.6126	.3296	-.5331	.1428	-.1343	-.1711	-.2395	.1215	.1536	-.2518	.2176	.4140	.2640
22.500	.5454	.4607	.2730	-.8262	.0389	-.0631	-.1993	-.2660	.0867	.0959	-.5391	.2112	.3903	.3406
45.000	.4858	.3948	.2222	-.6656	-.0503	-.1449	-.2272	-.2704	.0526	.0627	-.5450	.1865	.3474	.3488
67.500			.1746	-.6878	-.1623	-.1761	-.2537	-.2500	.0342	.0443	-.5029	.1574	.2875	.3022
90.000	.3345	.2724	.1438	-.7105	-.3505	-.1603	-.2722	-.2170	.0330	.0537	-.4667	.1243	.2429	.2628
112.500			.1165	-.7236	-.4837	-.0921	-.2566	-.1739	.0471	.1050	-.4581	.1192	.1961	.2191
135.000	.2916	.2291	.1101	-.7273	-.5246	-.0810	-.2056	-.1399	.0821	.1110	-.5024	.1243	.1827	.1813
157.500	.2950	.2320	.1086	-.7321	-.5367	-.1036	-.1514	-.1077	.0481	.1110	-.4206	.1101	.1927	.1648
180.000	.2880	.2178	.0915	-.7268	-.4932	-.2077	-.1145	-.0776	9.9990	.1186	-.3766	.0822	.1357	.1317
202.500	.2760	.1988	.0499	-.7639	-.4004	-.3305	-.0810	-.0465	.0853	.1473	-.4192	.0591	.1432	.1427
225.000	.2862	.1998	-.0213	-.7565	-.4889	-.4484	-.0559	-.0305	.0954	.1630	-.4182	-.0355	.1012	.2256
247.500			-.0484	-.7069	-.5572	-.4638	-.0686	-.0309	.1064	.1846	-.2581	-.0912	.0136	.2012
270.000	.4263	.4368	.3665	-.5770	-.0438	-.4556	-.1027	-.0503	.1215	.2128	-.1704	-.0843	.0172	.0591
292.500			.5067	-.4256	.3126	.3143	-.1340	-.0335	.1373	.2188	-.4565	-.0573	.0032	.0327
315.000	.6153	.6190	.4340	-.5020	.2873	.1652	-.1478	-.1367	.1488	.2082	-.5487	-.0875	-.2196	-.0345
337.500	.6443	.5983	.4267	-.5217	.2390	-.1077	-.1570	9.9990	.1511	.1930	-.4970	.1497	.4018	.318
360.000	.6126	.5280	.3296	-.5331	.1426	-.1343	-.1711	-.2395	.1215	.1536	-.2518	.2176	.4140	.2640

NSFC 567(1A32F) TO 53/2 53/2 03 SRM BOOSTER (R825011)

MACH (3) = 1.050 ALPHA (4) = -2.000 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.952

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER	X/LS	PHI	000	100	200	300	400	500	600	700	800	900	1000
	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122
	.0324	.4882	.8768	-.6063	-.0030	-.0687	-.1208	-.1836	.1313	.8038	-.4853	.8093	.3521
	.4880	.4182	.8488	-.8647	.1818	-.0888	-.1325	-.1778	.1186	.1703	-.4333	.2189	.3529
	.4241	.3823	.8253	-.6705	-.8932	-.0881	-.1315	-.1718	.0711	.1831	-.4581	.2133	.3258
	.67500	.1893	-.6830	-.3751	-.0571	-.1283	-.1531	.0872	.1838	-.4286	.2058	.3256	.3114
	.90.000	.1928	-.6905	-.4258	-.0325	-.1132	-.1281	.0581	.1574	-.4039	.1942	.2974	.3025
	112.500	.1795	-.6956	-.4599	-.0195	-.0925	-.1022	.0953	.1693	-.3882	.1935	.2890	.2946
	135.000	.3785	.3094	-.1720	-.6980	-.4711	-.0250	-.0714	-.0829	.0939	.1685	.1829	.2760
	157.500	.3734	.1611	-.6969	-.4887	-.0535	-.0503	-.0549	.0986	.1689	-.3356	.1608	.2443
	180.000	.3638	.2994	.1561	-.7074	-.5030	-.1357	-.0456	.0447	.8.9990	.1726	-.3001	.0923
	202.500	.3758	.3088	.1428	-.7262	-.4961	-.2403	-.0383	-.0337	.1035	.1789	-.3165	.0567
	225.000	.4021	.3328	.1319	-.7462	-.4539	-.3781	-.0396	-.0281	.1085	.1920	-.3885	.0168
	247.500	.5081	.5370	.4892	-.7226	-.5957	-.4509	-.0424	-.0373	.1184	.2153	-.2362	-.0423
	292.500			.4734	-.4969	-.0098	-.2357	-.0815	-.0810	.1447	.2465	-.3564	-.0351
	315.000	.5656	.5512	.3576	-.5873	.1053	-.1579	-.1061	-.1061	.1466	.2333	-.4539	.0337
	337.500	.5630	.5120	.3416	-.6056	.1255	-.1177	-.1191	9.9990	.1472	.2240	-.4293	.1617
	360.000	.5324	.4562	.2759	-.6253	-.0030	-.0627	-.1205	-.1635	.1313	.2038	-.4853	.2693

MACH (3) = 1.050 ALPHA (5) = .000 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.952

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER	X/LS	PHI	000	100	200	300	400	500	600	700	800	900	1000
	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122
	.4774	.4100	.8455	-.6529	-.1975	-.0449	-.0678	-.1315	.1383	.2290	-.4096	.2087	.3181
	.4516	.3853	.8217	-.6638	-.2743	-.0562	-.0617	-.1367	.1334	.2116	-.3837	.2108	.3155
	.4400	.3755	.2175	-.6719	-.3513	-.0247	-.0545	-.1337	.1268	.2088	-.3792	.2286	.3370
	.67500	.2085	-.6699	-.3970	.0041	-.0439	-.1099	.1222	.2042	-.3663	.2324	.3358	.3193
	.90.000	.4181	.3514	.2017	-.6744	-.4021	.0141	-.0343	-.0878	.1125	.1981	-.3533	.2255
	112.500	.2028	-.6759	-.4240	.0215	-.0201	-.0845	.1080	.2037	-.3079	.2162	.3054	.3237
	135.000	.2035	-.6783	-.4276	.0110	-.0105	-.0504	.0999	.1911	-.2973	.2027	.3015	.3491
	157.500	.4267	.3548	.2021	-.6773	-.4345	-.0100	-.0279	.0992	.1861	-.3087	.1771	.2855
	180.000	.4229	.3539	.2036	-.6811	-.4477	-.0526	-.0055	-.0224	.8.9990	.1936	-.2836	.1293
	202.500	.4390	.3740	.2095	-.6997	-.4795	-.1236	-.0127	-.0233	.1021	.1941	-.3033	.1031
	225.000	.4684	.4187	.2172	-.6966	-.4712	-.2088	-.0209	-.0182	.1086	.2050	-.3476	.0522
	247.500	.5387	.5712	.3244	-.6327	-.5028	-.3362	-.0242	-.0279	.1230	.2356	-.2201	-.0245
	292.500			.5273	-.5675	-.3222	-.2925	-.0379	-.0667	.1295	.2559	-.1452	-.0301
	315.000			.4107	-.5604	-.2157	-.1704	-.0558	-.0746	.1448	.2599	-.3162	-.0444
	337.500	.5293	.4996	.3000	-.6316	-.1653	-.1260	-.0539	-.0253	.1534	.2562	-.4134	.0508
	360.000	.5053	.4521	.2948	-.6404	-.1796	-.0984	-.0751	8.9990	.1513	.2458	-.3755	.1705
		.4774	.4100	.2455	-.6529	-.1975	-.0449	-.0578	-.1315	.1383	.2290	-.4896	.2697

TABULATED SOURCE DATA, NSFC THF 567 (1A32F)

(R62501)

MSFC 567(1A32F) TO 53/2 53/2 03 SRM BOOSTER

DATE 05 SEP 72

MACH (3) = 1.050 ALPHA (8) = 2.000 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.982

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/LS	0.33	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
000	.4250	.3837	.2894	.0885	-.3263	-.0098	-.0371	-.1018	.1395	.2433	-.3483	.1909	.2824	.1775
22 500	.4073	.3482	.2011	-.6739	-.3717	-.0368	-.0285	-.1093	.1366	.2335	-.3259	.2118	.3018	.2549
45 000	.4088	.3473	.1993	-.6749	-.3988	-.0060	-.0119	-.1080	.1302	.2321	-.3250	.2139	.3037	.2565
67 500	.4081	.3487	.1954	-.6775	-.4202	.0384	-.0027	-.0929	.1162	.2228	-.3098	.2256	.3057	.2560
90 000	.4081	.3487	.2049	-.6728	-.4179	.0482	.0113	-.0887	.1051	.2159	-.2883	.2301	.2956	.2537
112 500	.4374	.3675	.2136	-.6708	-.4169	.0411	.0200	-.0503	.0928	.2145	-.2742	.2252	.2955	.2539
135 000	.4821	.3853	.2262	-.6843	-.4010	.0295	.064	-.0352	.0813	.1983	-.2773	.2204	.2958	.2538
157 500	.4822	.4083	.2480	-.6573	-.3939	-.0334	.0214	-.0084	.0767	.1901	-.2860	.2058	.2953	.2545
180 000	.4852	.4396	.2811	-.6288	-.4299	-.0810	.0158	-.0036	.0928	.1998	-.3019	.1895	.2113	.2523
202 500	.5042	.4818	.2911	-.6480	-.4485	-.1372	.0101	-.0078	.0977	.2083	-.3519	.0558	.1479	.2872
225 000	.5185	.5787	.4058	-.5878	-.4250	-.1917	-.0094	-.0118	.1153	.2342	-.3594	-.0145	.0684	.2441
247 500	.4802	.4387	.3445	-.6013	-.3788	-.1400	-.0297	-.0503	.1445	.2882	-.2808	-.0013	.2934	.528
270 000	.4258	.3927	.2375	-.6891	-.2608	-.0732	.0466	.09990	.1533	.2600	-.3288	.5618	.2996	.2232
292 500	.4750	.4837	.2854	-.6895	-.3263	-.0296	-.0371	-.0106	.1395	.2433	-.3493	.1959	.2524	.1782

MACH (3) = 1.050 ALPHA (7) = 5.000 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.982

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/LS	0.33	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
000	.3298	.2793	.1361	-.6881	-.4003	-.0198	-.0068	-.0531	.1525	.2547	-.3213	.1720	.2641	.200
22 500	.3217	.2751	.1484	-.7013	-.4619	-.0421	.0013	-.0714	.1460	.2412	-.2917	.2021	.3079	.249
45 000	.3218	.2709	.1426	-.7107	-.4798	-.0013	.0035	-.0880	.1311	.2279	-.2909	.2159	.2842	.218
67 500	.3514	.2945	.1688	-.6943	-.4475	.0189	.0182	-.0810	.1081	.2216	-.2962	.2115	.2561	.203
90 000	.4322	.3853	.1897	-.6801	-.4087	-.0035	.0182	-.0640	.0738	.2149	-.2868	.2379	.2822	.2355
112 500	.5085	.4274	.2303	-.6569	-.3495	-.0324	.0247	-.0393	.0573	.1910	-.2894	.2555	.3332	.2525
135 000	.4757	.4757	.2956	-.6293	-.2983	-.0985	.0320	-.0122	.0651	.1925	-.3013	.2478	.3135	.2458
157 500	.5562	.5177	.3224	-.6155	-.3473	-.1140	.0253	.0277	.0990	.2126	-.2957	.2475	.3354	.2474
180 000	.5525	.5654	.3598	-.5882	-.4334	-.1367	.0045	.0143	.1095	.2247	-.2951	.2459	.3134	.2419
202 500	.4578	.5163	.4728	-.5249	-.4116	-.2649	-.0067	.0228	.1280	.2450	-.2681	.2444	.3138	.240
225 000	.3395	.3037	.1576	-.6725	-.5030	-.2519	-.0054	-.0109	.1626	.2770	-.2512	.2444	.3134	.240
247 500	.3157	.2850	.1042	-.7405	-.3833	-.1848	-.0059	-.0154	.1684	.2556	-.3352	.2477	.3130	.240
270 000	.3289	.2753	.1361	-.6981	-.4003	-.0195	-.0259	-.0531	.1525	.2547	-.3213	.1720	.2641	.200

TABLATED SOURCE DATA, MRF C INT 587 (1A32F)

DATE 03 SEP 78

(R250:1)

MRF C 587(1A32F) Y8 S3/2 S3/2 05 S61 BOOSTER

MACH (3) = 1.050 ALPHA (8) = 8.000 0 = 9.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L/S	PHI	0.722	.1013	.1150	.151	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.2308	.1828	.0684	-.7169	-.3197	-.0883	.0114	-.0077	.1580	.2620	-.3180	.1840	.3071	.1425
22.500	.2313	.1842	.0820	-.7352	-.4223	-.0970	-.0022	-.0499	.1095	.2011	-.2756	.1917	.2862	.1371
45.000	.2194	.1759	.0919	-.7345	-.5205	-.0348	-.0151	-.0673	.1181	.2134	-.2733	.1832	.2097	.0954
67.500	.0855	-.7254	.0855	-.7254	-.5003	-.0302	-.0256	-.0919	.1138	.2300	-.2956	.1817	.2078	.0998
90.000	.2269	.0855	.0963	-.7165	-.4470	-.0613	-.0388	-.1182	.0764	.2242	-.2973	.202	.2278	.1531
112.500	.1533	-.6885	.1533	-.6885	-.3703	-.1011	-.0416	-.1039	.0269	.1917	-.2733	.2281	.3164	.2542
135.000	.4500	.3743	.2234	-.6519	-.2831	-.1706	-.0412	-.0678	.0261	.1536	-.2874	.2819	.4129	.3562
157.500	.5555	.4662	.2766	-.6089	-.2096	-.1423	-.0223	-.0141	.0568	.1594	-.3039	.3231	.5020	.4670
180.000	.6253	.5427	.3399	-.5917	-.1912	-.1022	.0211	.0404	.0990	.1964	-.3024	.3566	.5317	.5216
202.500	.6521	.6040	.3911	-.5545	-.2134	-.0943	.0430	.0654	.1419	.2244	-.3444	.2959	.4762	.5179
225.000	.6200	.6200	.4382	-.5124	-.1648	-.1199	.0425	.0659	.1451	.2376	-.3842	.1356	.2598	.4160
247.500	.3808	.4086	.5055	-.4158	-.0201	-.1973	.0570	.0586	.1589	.2601	-.2213	.0316	.1151	.3176
270.000	.292.500	.1317	.3503	-.5505	-.1342	-.2929	.0129	.0463	.1738	.2834	-.0196	.0234	.1139	.1579
315.000	.2058	.1577	-.1403	-.5054	-.5091	-.2867	.0096	.0463	.1886	.2798	-.1639	.0335	.1123	.1301
337.500	.2368	.1828	.0664	-.5614	-.4821	-.2854	.0097	.0359	.1862	.2701	-.2978	.0766	.2118	.0243
350.000	.1755	.1158	.0157	-.7389	-.3122	-.0949	.0230	.0152	.1530	.2472	-.2826	.1659	.2776	.1219

MACH (3) = 1.050 ALPHA (9) = 10.000 0 = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 11.992

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L/S	PHI	0.722	.1013	.1150	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.1755	.1158	.0157	-.7389	-.3122	-.0949	.0230	.0152	.1530	.2472	-.2826	.1659	.2776	.1219
22.500	.1653	.1116	.0280	-.7593	-.3582	-.1352	-.0149	-.0521	.0698	.1593	-.2559	.1644	.2196	.0541
45.000	.1349	.1005	.0160	-.7668	-.4911	-.0787	-.0324	-.0498	.1134	.2083	-.2485	.1731	.1768	.0501
67.500	.07.500	.1802	.1483	.0129	-.7620	-.5287	-.0823	-.0425	.1096	.2228	-.2634	.1700	.1728	.0405
90.000	.4338	.3531	.2036	-.7454	-.4625	-.1163	-.0558	-.1452	.0684	.2201	-.2645	.1868	.1931	.0920
112.500	.5778	.4810	.2860	-.7102	-.3655	-.2270	-.0787	-.1411	.0094	.1726	-.2476	.2236	.2993	.2103
135.000	.6704	.5716	.3596	-.6514	-.2470	-.1030	-.0833	-.0022	.1275	.2726	-.2726	.2954	.4337	.3519
180.000	.6984	.6359	.4143	-.5890	-.1425	-.1503	.0416	-.0071	.0506	.1465	-.2892	.3712	.5694	.4812
202.500	.6514	.6381	.4599	-.5614	-.0988	-.0610	.0395	.0739	.0990	.2023	-.2880	.4072	.6131	.5625
225.000	.3284	.3192	.5044	-.5215	.0020	-.0641	.0811	.1036	.1651	.2393	-.3350	.3340	.5375	.5637
247.500	.1030	-.0204	-.2293	-.4732	.1407	-.0907	.0837	.1131	.1756	.2537	-.3624	.1668	.2958	.4771
270.000	.1241	.0953	-.0475	-.3828	.2523	-.1720	.0840	.1021	.1825	.2789	-.2106	.0516	.1237	.1370
315.000	.1755	.1158	.0157	-.5125	.0314	-.2719	.0419	.0892	.1939	.2962	-.0016	.0461	.1237	.1370
337.500	.1755	.1158	.0157	-.4705	-.4856	-.2790	.0360	.0892	.2073	.2853	-.1356	.0594	.1305	.1246
350.000	.1755	.1158	.0157	-.4726	-.4680	-.2849	.0327	.0800	.2058	.2746	-.2533	.0944	.2134	.0231
				-.6840	-.3823	-.2184	.0314	.0990	.1999	.2766	-.2145	.1507	.2852	.0658
				-.7389	-.3122	-.0949	.0230	.0152	.1530	.2472	-.2826	.1659	.2776	.1219

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TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) 19 53/2 53/2 03 SRM BOOSTER (R82501)

MACH (4) = 1.250 ALPHA (1) = -10.000 0 = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	PHI	0.433	0.722	1.013	1.158	1.518	2.240	3.323	4.405	5.488	6.570	7.653	8.834	9.122	9.555
0.000	0.6597	0.6555	0.6182	-0.2208	0.2836	-0.1334	-0.0686	-0.1833	-0.1331	0.3877	-0.5438	-0.6520	0.3888	0.2508	0.2508
22.500	0.5934	0.5438	0.4286	-0.3245	0.1429	-0.3258	-0.1914	-0.2704	-0.2309	-0.0720	-0.5359	-0.1117	0.2997	0.3885	0.3885
45.000	0.4034	0.4013	0.3144	-0.4001	-0.0116	-0.1805	-0.3181	-0.3843	-0.3531	-0.1838	-0.5376	0.0553	0.1730	0.3569	0.3569
67.500	0.1988	0.1534	0.1056	-0.4502	-0.1831	-0.3104	-0.4152	-0.5018	-0.3345	-0.2278	-0.5536	0.0666	0.0777	0.3261	0.3261
90.000	0.0993	0.0953	0.0956	-0.4897	-0.3433	-0.3395	-0.5242	-0.5226	-0.2367	-0.1939	-0.5153	-0.0157	0.0146	0.2198	0.2198
112.500	0.0187	0.0187	0.0308	-0.5076	-0.4149	-0.4191	-0.4847	-0.3900	-0.2320	-0.1435	-0.5197	-0.0187	0.0236	0.0658	0.0658
135.000	0.0519	0.0519	0.0235	-0.5157	-0.4345	-0.3354	-0.4079	-0.3221	-0.2884	-0.1515	-0.5274	-0.0112	0.0549	0.0632	0.0632
157.500	0.0716	0.0716	0.0235	-0.5141	-0.4360	-0.2148	-0.3212	-0.3017	-0.2632	-0.1560	-0.4767	-0.0079	0.1037	0.0491	0.0491
180.000	0.0445	0.0445	0.0129	-0.5294	-0.4041	-0.2697	-0.2663	-0.2872	0.9.9990	-0.0503	-0.4575	-0.0028	0.1540	0.0450	0.0450
202.500	0.0168	0.0168	0.0644	-0.5749	-0.4554	-0.3975	-0.1581	-0.0724	-0.0420	0.0300	-0.4668	-0.0308	0.1786	0.2169	0.2169
225.000	0.2360	0.2360	0.3615	-0.5303	-0.5211	-0.4236	-0.1190	-0.0448	-0.0452	0.0630	-0.4810	-0.1115	0.3390	0.1921	0.1921
247.500	0.6597	0.6597	0.6597	-0.5162	-0.4870	-0.4088	-0.0890	-0.0424	-0.0320	0.1111	-0.3057	-0.1698	0.0940	0.0778	0.0778
270.000	0.5947	0.5947	0.5947	-0.3374	0.6839	-0.4070	-0.1844	-0.0819	-0.0364	0.1493	-0.2649	-0.1674	0.1045	-0.0366	-0.0366
292.500	0.4978	0.4978	0.4978	-0.0757	0.6878	-0.1281	-0.0733	-0.0949	-0.0358	0.1559	-0.5309	-0.1573	0.0874	-0.0237	-0.0237
315.000	0.3745	0.3745	0.3745	-0.1509	0.4772	-0.0337	-0.0295	-0.1119	-0.0445	0.1363	-0.5094	-0.1481	0.1356	-0.1356	-0.1356
337.500	0.6597	0.6597	0.6597	-0.0921	0.6095	-0.1921	0.4153	0.0307	0.0312	0.9.9990	-0.0636	0.1018	0.3490	0.1358	0.1358
360.000	0.5947	0.5947	0.5947	-0.2266	0.2836	-0.1334	-0.0886	-0.1833	-0.1331	0.0397	-0.5438	-0.0520	0.3889	0.2508	0.2508

MACH (4) = 1.250 ALPHA (2) = -8.000 0 = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	PHI	0.433	0.722	1.013	1.158	1.518	2.240	3.323	4.405	5.488	6.570	7.653	8.834	9.122	9.555
0.000	0.5797	0.5947	0.4871	-0.3060	0.2381	0.0019	-0.0873	-0.1800	-0.1343	0.913	-0.5089	-0.0109	0.3710	0.2575	0.2575
22.500	0.4978	0.5115	0.4204	-0.3460	0.0848	-0.0030	-0.1618	-0.2429	-0.1918	0.0185	-0.5094	0.0136	0.2865	0.2561	0.2561
45.000	0.3745	0.3953	0.3046	-0.3897	-0.0945	-0.1086	-0.2579	-0.3236	-0.2517	-0.0683	-0.5110	0.0295	0.1755	0.3163	0.3163
67.500	0.1374	0.2035	0.2424	-0.4274	-0.2448	-0.2427	-0.3500	-0.3829	-0.2830	-0.1195	-0.5193	0.0348	0.1059	0.2180	0.2180
90.000	0.0716	0.0716	0.1784	-0.4541	-0.3406	-0.2633	-0.3843	-0.4059	-0.2013	-0.1336	-0.4956	0.0232	0.0657	0.1139	0.1139
112.500	0.0415	0.0415	0.1354	-0.4764	-0.3846	-0.3002	-0.3230	-0.2865	-0.1730	-0.0682	-0.4785	-0.0058	0.0548	0.1139	0.1139
135.000	0.0781	0.0781	0.1076	-0.4859	-0.4027	-0.2126	-0.3066	-0.2272	-0.1802	-0.0666	-0.4266	0.0178	0.0722	0.0880	0.0880
157.500	0.0757	0.0757	0.0872	-0.4928	-0.4054	-0.1674	-0.2315	-0.2036	-0.1802	-0.1153	-0.4503	0.0169	0.1131	0.0802	0.0802
180.000	0.0843	0.0843	0.0115	-0.5397	-0.4125	-0.3609	-0.1247	-0.0670	-0.0453	0.0489	-0.3968	-0.0115	0.1810	0.2110	0.2110
202.500	0.0882	0.0882	-0.1497	-0.5233	-0.5062	-0.4043	-0.0948	-0.0357	-0.0332	0.0824	-0.4550	-0.0758	0.0784	0.2219	0.2219
225.000	0.2910	0.2910	-0.1659	-0.5213	-0.5433	-0.4019	-0.0698	-0.0403	-0.0340	0.1232	-0.2869	-0.1493	0.0644	0.1214	0.1214
247.500	0.6915	0.6915	0.4325	-0.3183	0.0554	0.3932	-0.1518	-0.0673	-0.0352	0.1957	-0.2441	-0.1472	-0.0744	0.0104	0.0104
270.000	0.5774	0.5774	0.6560	-0.1343	0.4615	-0.1560	-0.0665	-0.0962	-0.0523	0.1754	-0.5128	-0.1340	-0.0662	0.0148	0.0148
292.500	0.6161	0.6161	0.6016	-0.2173	0.4458	-0.0415	-0.0344	-0.1081	-0.0615	0.1746	-0.4791	-0.0902	0.1804	-0.1281	-0.1281
315.000	0.6772	0.6772	0.5624	-0.2546	0.3504	0.0177	-0.0317	0.9.9990	-0.0695	0.1508	-0.4808	-0.0178	0.3365	0.1397	0.1397
337.500	0.5947	0.5947	0.4871	-0.3060	0.2381	0.0019	-0.0873	-0.1800	-0.1343	0.913	-0.5089	-0.0109	0.3710	0.2575	0.2575

MSFC 567(1A3ZF) TO 53/2 53/2 03 SRM BOOSTER (R82501)

MACH (4) = 1.250 ALPHA (3) = -5.000 Q = 9.2926 PTA = 22.006 RL = 6.6822 PSA = 8.4768

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L/S	.0433	.0722	.1013	.1198	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.4748	.5235	.4428	-.3444	-.0369	.0233	-.0623	-.1476	-.0873	.1340	-.4524	.0345	.2768	.2418
22.500	.4029	.4612	.3983	-.3624	-.1160	.0000	-.1052	-.1826	-.1243	.0712	-.4531	.0554	.2303	.3250
45.000	.3214	.3918	.3480	-.3888	-.2048	-.0470	-.1431	-.2185	-.1394	.0196	-.4524	.0723	.1912	.3496
67.500			.2890	-.4051	-.2658	-.0944	-.1648	-.2023	-.1394	-.0336	-.4612	.0748	.1792	.3035
90.000	.1633	.2732	.2603	-.4230	-.3068	-.1344	-.1689	-.1889	-.1365	-.0353	-.4437	.0645	.1731	.2518
112.500		.2286	-.4373	-.3365	-.1482	-.1703	-.1674	-.1191	.0419	.1396	.2062	.1396	.2062	.1680
135.000	.0874	.2180	.2001	-.4472	-.3469	-.1160	-.1331	-.1289	-.1056	.0225	-.4425	.0557	.1384	.1665
157.500	.1134	.2046	.1738	-.4541	-.3595	-.1124	-.1003	-.0953	-.0982	.0083	-.3934	.0577	.1706	.1665
180.000	.1381	.1997	.1688	-.4513	-.3923	-.2054	-.0765	-.0598	9.9990	.0071	-.3246	.0320	.1244	.1244
202.500	.1929	.1967	.1306	-.4854	-.4039	-.3227	-.0603	-.0395	-.0395	.0707	-.3148	-.0148	.1358	.1604
225.000	.2247	.2181	.0620	-.5489	-.4254	-.3904	-.0603	-.0262	-.0249	.1053	-.3671	-.0736	.0428	.2160
247.500	.3713	.5153	.9461	-.2850	-.2404	-.3790	-.0432	-.0299	-.0265	.1379	-.2380	-.1298	-.0395	.1505
292.500		.6181	.5385	-.1948	.0471	-.1485	-.0186	-.0894	-.0540	.1898	-.2221	-.1197	-.0332	.0619
315.000	.4952	.6181	.5385	-.2890	.0172	-.0610	-.0031	-.1015	-.0648	.1964	-.4361	-.0329	.2396	-.1207
337.500	.4987	.5886	.5162	-.3107	-.0295	.0016	-.0241	9.9990	-.0786	.1663	-.4284	.0495	.3128	.1210
350.000	.4748	.5235	.4428	-.3444	-.0369	.0233	-.0623	-.1476	-.0873	.1340	-.4524	.0345	.2768	.2418

MACH (4) = 1.250 ALPHA (4) = -2.000 Q = 9.2926 PTA = 22.006 RL = 6.6822 PSA = 8.4768

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L/S	.0433	.0722	.1013	.1198	.1516	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.3339	.4472	.3389	-.3711	-.1581	.0514	.0047	-.1069	-.0694	.1722	-.4220	.0744	.2649	.2107
22.500	.2682	.4066	.3643	-.3795	-.1869	.0235	-.0293	-.1190	-.0814	.1165	-.4146	.0960	.2519	.3090
45.000	.2321	.3735	.3431	-.3914	-.2363	.0152	-.0535	-.1166	-.0923	.0815	-.4163	.0961	.2496	.3317
67.500			.3244	-.3989	-.2668	-.0397	-.0584	-.1030	-.0880	.0602	-.4138	.0990	.2700	.3080
90.000	.1628	.3022	.3134	-.4069	-.2834	-.0352	-.0527	-.0894	-.0761	.0852	-.4048	.0920	.2691	.2917
112.500			.2947	-.4163	-.3005	-.0851	-.0443	-.0876	-.0581	.0722	-.3771	.0915	.2650	.2759
135.000	.1390	.2695	.2762	-.4204	-.3045	-.1102	-.0306	-.0502	-.0443	.0565	-.3275	.0844	.2342	.2458
157.500	.1570	.2683	.2550	-.4246	-.3208	-.1114	-.0218	-.0351	-.0365	.0507	-.2745	.0628	.1883	.2270
180.000	.1564	.3016	.2532	-.4298	-.3472	-.1507	-.0100	-.0100	9.9990	.0617	-.2485	.0215	.1307	.1899
202.500	.2138	.3223	.2409	-.4496	-.4112	-.2169	-.0138	-.0125	-.0213	.0762	-.2694	-.0267	.0663	.1715
225.000	.2797	.3710	.3393	-.4731	-.4989	-.3062	-.0234	-.0151	-.0172	.1053	-.2742	-.0851	.0100	.1394
247.500	.4383	.5926	.6260	-.2537	-.2028	-.3396	-.0426	-.0439	-.0217	.1947	-.2245	-.1001	-.0145	.0806
292.500			.5782	-.2671	-.1857	-.1175	.0387	-.0614	-.0418	.2423	-.5097	-.0872	.0000	.0630
315.000	.4381	.5598	.4595	-.3461	-.2469	-.0396	.0507	-.0767	-.0521	.2438	-.4123	.0004	.2898	-.1284
337.500	.4080	.5095	.4435	-.3596	-.1708	.0250	9.9990	-.0605	.2271	-.4040	.0547	.3069	.0923	
360.000	.3339	.4472	.3389	-.3711	-.1581	.0514	.0047	-.1069	-.0694	.1722	-.4220	.0744	.2649	.2107

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER

(R82501)

MACH (4) = 1.250 ALPHA (5) = .000 Q = 9.2626 PTA = 22.006 RL = 6.6822 PSA = 8.4768

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1156	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI														
.000	.2298	.3682	.3446	-.3695	-.2136	.1206	.0226	-.0502	-.0464	.1939	-.3875	.1030	.2734	.1930
22.500	.1917	.3625	.3371	-.3682	-.2259	.0505	-.0239	-.0914	-.0639	.1484	-.3788	.1110	.2892	.2954
45.000	.1778	.3515	.3268	-.3970	-.2525	.0396	-.0452	-.0668	-.0735	.1308	-.3782	.0977	.3055	.3167
67.500			.3238	-.4025	-.2682	.0089	-.0339	-.0639	-.0735	.1168	-.3759	.0818	.3339	.3223
90.000		.3110	.3177	-.4022	-.2709	-.0151	-.0143	-.0405	-.0569	.0973	-.3638	.0945	.3373	.3090
112.500			.3155	-.4101	-.2822	-.0851	-.0018	-.0231	-.0381	.0801	-.3095	.1143	.3071	.2896
135.000		.3082	.3046	-.4059	-.2883	-.1267	-.0059	-.0197	-.0259	.0518	-.2730	.1114	.2598	.2781
157.500		.3193	.3006	-.4089	-.2927	-.1055	-.0068	-.0097	-.0122	.0452	-.2522	.0948	.2197	.2714
180.000		.2275	.3043	-.4172	-.3133	-.1298	.0015	.0048	9.9990	.0607	-.2387	.0416	.1567	.2368
202.500		.2400	.3020	-.4160	-.3056	-.1490	-.0174	-.0024	-.0012	.0811	-.2550	.0055	.0966	.2119
225.000		.2710	.4425	-.4269	-.3907	-.1722	-.0244	-.0078	-.0015	.1162	-.2487	-.0564	.0293	.1592
247.500			.4495	-.4361	-.4335	-.2400	-.0232	-.0161	.0013	.1436	-.2142	-.0868	.0026	.1388
270.000		.3411	.6093	-.2381	-.3734	-.2768	-.0140	-.0361	-.0044	.2041	-.2029	-.0746	.0082	.1052
292.500			.5043	-.3246	-.2975	-.1143	.0380	-.0481	-.0256	.2703	-.4939	-.0672	.0247	.0843
315.000		.3062	.4865	-.3900	-.2630	-.0173	.0363	-.0614	-.0389	.2749	-.3879	-.0268	.3145	-.1222
337.500		.2652	.4304	-.3608	-.3843	-.2349	.0305	.0184	9.9990	.2577	-.3733	.0794	.3197	.0781
360.000		.2298	.3882	-.3440	-.3895	-.2136	.1206	-.0226	-.0464	.1939	-.3875	.1030	.2734	.1930

MACH (4) = 1.250 ALPHA (8) = 2.000 Q = 9.2626 PTA = 22.006 RL = 6.6822 PSA = 8.4768

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1156	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI														
.000	.1201	.2858	.2806	-.3975	-.2574	.0386	-.0902	-.0595	-.0366	.2128	-.3375	.1152	.2924	.1859
22.500	.1088	.2626	.2622	-.4008	-.2517	.0190	-.0928	-.0516	-.0504	.1795	-.3295	.1143	.3112	.2816
45.000	.1011	.2597	.2609	-.4100	-.2622	.0294	-.0665	-.0453	-.0665	.1581	-.3299	.0960	.3618	.3207
67.500			.2699	-.4049	-.2771	-.0683	-.0279	-.0245	-.0632	.1414	-.3303	.0983	.3690	.3090
90.000		.1452	.3030	-.4022	-.2781	-.0491	-.0021	-.0096	-.0521	.1185	-.2926	.1332	.3346	.2901
112.500			.3098	-.3973	-.2817	-.1262	.0165	-.0029	-.0420	.0968	-.2559	.1497	.2857	.2753
135.000		.2148	.3136	-.3997	-.2816	-.1401	.0233	.0004	-.0336	.0495	-.2407	.1516	.2595	.2761
157.500		.2610	.3168	-.4000	-.2822	-.1165	.0225	.0004	-.0232	.0350	-.2257	.1420	.2560	.3051
180.000		.2638	.3995	-.3941	-.2726	-.0820	-.0008	-.0029	9.9990	.0586	-.2131	.1011	.2181	.3009
202.500		.2875	.4443	-.3536	-.3972	-.3153	.0919	-.0132	-.0111	.0849	-.2402	.0413	.1394	.2635
225.000		.3105	.5086	-.3992	-.3824	-.0985	-.0265	-.0161	.0104	.1116	-.2252	-.0231	.0618	.1926
247.500			.5303	-.3051	-.4091	-.1594	-.0216	-.0137	.0074	.1494	-.1840	-.0552	.0313	.1638
270.000		.2657	.6402	-.2391	-.4342	-.1950	-.0109	-.0253	.0074	.2038	-.1709	-.0460	.0380	.1342
292.500			.4015	-.3959	-.4193	-.1256	.0254	-.0315	-.0032	.2724	-.4261	-.0310	.0526	.1118
315.000		.2028	.2911	-.4391	-.3441	-.0323	.0421	-.0435	-.0177	.2803	-.3452	.0663	.3075	-.0736
337.500		.1738	.3487	-.3000	-.4135	-.3035	.0196	-.0196	9.9990	.2704	-.3305	.1072	.3242	.0751
360.000		.1201	.2956	-.2806	-.3975	-.2574	.0386	-.0902	-.0595	.2128	-.3375	.1152	.2924	.1859

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER (R62501)

MACH (4) = 1.250 ALPHA (7) = 5.000 Q = 9.2926 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	PHI	0.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
.000	.1052	.1853	.1900	-.4334	-.2595	.0069	-.0425	-.0242	.0227	.2206	-.2826	.1429	.3147	.1779	
22.500	.0377	.1953	.2015	-.4280	-.3074	-.0047	-.0828	-.0217	-.0084	.1765	-.2777	.1305	.3966	.2714	
45.000	.0265	.1891	.1968	-.4381	-.3183	.0111	-.0728	-.0221	-.0387	.1475	-.2760	.0993	.4157	.2700	
67.500	.1303	.2066	.2065	-.4343	-.3216	-.0441	-.0486	-.0092	-.0550	.1500	-.2771	.1388	.2849	.1958	
90.000	.2695	.3331	.2341	-.4247	-.3129	-.1144	-.0333	-.0021	-.0624	.1425	-.2578	.1684	.2553	.2117	
112.500	.3895	.3947	.2695	-.4142	-.2842	-.1532	-.0180	-.0082	-.0579	.1055	-.2735	.1888	.2850	.2638	
135.000	.4088	.4682	.3158	-.3975	-.2685	-.1145	.0073	-.0221	-.0348	.0310	-.2434	.2042	.3440	.3323	
157.500	.4368	.5234	.3448	-.3944	-.2478	-.0728	.0198	-.0300	-.0142	.0124	-.2448	.1925	.3240	.3895	
180.000	.4348	.5745	.3815	-.3750	-.2182	-.0478	.0053	-.0071	.09880	.0803	-.2134	.1688	.3040	.3777	
202.500	.3380	.5377	.4252	-.3637	-.2495	-.0574	-.0037	-.0017	.0290	.0923	-.2382	.1123	.2466	.3564	
225.000	.1409	.2520	.4654	-.3387	-.3486	-.1080	-.0191	-.0070	.0312	.1249	-.2433	.0183	.1244	.2812	
247.500	.1066	.2235	.6005	-.2350	-.3739	-.1859	-.0025	.0469	.1709	.1759	-.1297	-.0245	.0669	.2125	
270.000	.0875	.1121	.5848	-.2607	-.4294	-.2286	-.0112	-.0024	.0524	.2145	-.1123	-.0224	.0783	.1682	
292.500	.0599	.0822	.1947	-.4754	-.4396	-.2433	.0020	-.0053	.0569	.2525	-.2487	.0008	.0682	.1435	
315.000	.0675	.1121	.1210	-.4924	-.4009	-.2008	.0266	-.0099	.0532	.2653	-.2553	.0819	.2466	.0211	
337.500	.0612	.1403	.1832	-.4660	-.3232	-.0939	.0117	.09890	.0292	.2618	-.2705	.1378	.3343	.0745	
360.000	.0575	.1121	.1890	-.4334	-.2995	.0069	-.0425	-.0242	.0227	.2206	-.2826	.1429	.3147	.1779	

MACH (4) = 1.250 ALPHA (8) = 8.000 Q = 9.2926 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	PHI	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
.000	.0675	.1121	.0829	-.4688	-.3088	-.0748	.0034	-.0036	.0454	.2266	-.2731	.1595	.3474	.1271	
22.500	.0242	.1189	.1162	-.4726	-.3269	-.0861	-.0957	-.0389	-.0353	.1316	-.2658	.1429	.4077	.1826	
45.000	-.0399	.1082	.1181	-.4808	-.3859	-.0907	-.0819	-.0440	-.0282	.1341	-.2819	.1402	.2594	.0802	
67.500	.1087	.1823	.1280	-.4734	-.3692	-.1049	-.0936	-.0357	-.0394	.1485	-.2782	.1364	.2119	.1168	
90.000	.3482	.4625	.1665	-.4826	-.3823	-.2067	-.1054	-.0469	-.0844	.1469	-.2513	.1609	.2642	.1680	
112.500	.4838	.5358	.2387	-.4376	-.3156	-.2080	-.0919	-.0852	-.1044	.1129	-.2786	.2094	.3098	.2408	
135.000	.5358	.5952	.3158	-.4028	-.2535	-.1481	-.0711	-.0919	-.0723	.0201	-.2578	.2094	.3402	.3590	
157.500	.5952	.6405	.3772	-.3752	-.1897	-.0752	-.0664	-.0673	-.0294	-.0194	-.2819	.2306	.4266	.4428	
180.000	.6405	.6856	.4429	-.3528	-.1440	-.0256	-.0302	-.0072	.09990	.0619	-.2497	.2221	.4154	.4708	
202.500	.6856	.7255	.4938	-.3260	-.1481	-.0286	.0051	.0222	.0692	.1142	-.2718	.1636	.3579	.4529	
225.000	.7255	.7654	.5493	-.2919	-.2040	-.0685	.0164	.0289	.0668	.1539	-.3055	.0333	.1574	.3302	
247.500	.7654	.8053	.6386	-.1851	-.2305	-.1818	.0293	.0801	.1938	.1938	-.0972	-.0177	.0596	.2248	
270.000	.8053	.8452	.5099	-.2882	-.3640	-.2648	-.0031	.0268	.0914	.2285	-.0665	-.0066	.0858	.1485	
292.500	.8452	.8851	-.0324	-.4368	-.4566	-.2734	.0145	.0312	.1027	.2510	-.2185	.0050	.0825	.1341	
315.000	.8851	.9250	-.0678	-.4576	-.4447	-.2889	.0121	.0213	.0950	.2520	-.2384	.0650	.2132	.0155	
337.500	.9250	.9649	.0612	-.0687	-.4576	-.2889	.0121	.0213	.0950	.2520	-.2384	.0650	.2132	.0155	
360.000	.9649	.1000	.0575	-.4688	-.3028	-.0748	.0034	-.0036	.0454	.2266	-.2731	.1595	.3474	.1271	

ORIGINAL PAGE IS OF POOR QUALITY

MSFC 567(1A32F) TO 53/2 53/2 03 SRM BOOSTER (R02501)

MACH (4) = 1.250 ALPHA (9) = 10.000 Q = 9.2526 PTA = 22.006 RL = 6.6822 PSA = 6.4788

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1156	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.0265	.0624	.0278	-.4970	-.3033	-.1125	-.0142	.0032	.0470	.2082	-.2653	.1442	.0699
22.500	-.0778	.0988	.0508	-.5005	-.3784	-.1402	-.0849	-.0853	-.0999	.0885	.0885	-.2623	.1380	.0732
45.000	-.0474	.0307	.0461	-.5084	-.4277	-.1019	-.1215	-.0832	-.0466	.1268	.1268	-.2545	.1325	.0312
67.500			.0528	-.5080	-.4305	-.2088	-.1488	-.0883	-.0520	.1387	.1387	-.2838	.1228	.0545
90.000	.0703	.0988	.1038	-.4864	-.4018	-.2885	-.1824	-.1098	-.0583	.1336	.1336	-.2709	.1815	.1338
112.500			.1832	-.4584	-.3298	-.2885	-.2082	-.1740	-.1478	.0985	.0985	-.2807	.1929	.2387
135.000	.3828	.3582	.3028	-.4064	-.2548	-.1770	-.1936	-.1807	-.1137	-.0604	-.0604	-.2763	.2202	.4037
157.500	.5111	.4824	.3892	-.3879	-.1965	-.0849	-.1053	-.1048	-.0578	-.0491	-.0491	-.2855	.2543	.4731
180.000	.6105	.5950	.4855	-.3378	-.0886	-.0166	-.0211	-.0149	9.9990	.0708	.0708	-.2751	.2672	.5082
202.500	.6385	.6589	.5215	-.3026	-.0915	-.0190	-.0221	-.0171	.0875	.1300	.1300	-.3014	.1929	.4943
225.000	.5951	.6733	.5783	-.2585	-.1344	-.0584	.0317	.0279	.0808	.1691	.1691	-.3410	.0634	.3480
247.500			.6431	-.1957	-.1341	-.1632	.0175	.0250	.0871	.2084	.2084	-.1240	-.0019	.2301
270.000	.2866	.4186	.4573	-.2947	-.2583	-.2764	-.0307	.0221	.1012	.2403	.2403	-.0823	-.0002	.0826
292.500			-.1784	-.4322	-.4484	-.2839	.0059	.0388	.1086	.2453	.2453	-.2127	.0109	.0872
315.000	.0454	.0100	-.2052	-.4338	-.4484	-.3047	.0113	.0321	.1054	.2408	.2408	-.2127	.0543	.1901
337.500	.0521	.0842	-.0190	-.5159	-.3568	-.2518	.0138	9.9990	.0937	.2139	.2139	-.2252	.1139	.0089
360.000	.0265	.0624	.0278	-.4970	-.3033	-.1125	-.0142	.0032	.0470	.2082	.2082	-.2653	.1442	.0698

MACH (5) = 1.480 ALPHA (1) = -10.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.6388	.6031	-.1307	.1555	.0093	.0309	-.0939	-.0960	-.0216	-.4180	-.2221	.2918	.3167
22.500	.5894	.5406	.5202	-.1731	.0420	.0743	-.0637	-.1931	-.1813	-.1196	-.4093	-.1669	.1886	.3948
45.000	.3801	.4165	.4075	-.2198	-.0899	-.0021	-.1846	-.2843	-.2843	-.2418	-.4271	-.0564	.1035	.3824
67.500			.2751	-.2721	-.1865	-.1659	-.2966	-.3619	-.3632	-.3199	-.4296	-.0220	.0559	.3140
90.000	.1268	.1942	.1714	-.3093	-.2652	-.1770	-.3841	-.4127	-.2946	-.2419	-.3917	-.0278	.0166	.1506
112.500			.0999	-.3424	-.3016	-.2808	-.4008	-.3861	-.2877	-.2040	-.3475	-.0258	.0280	.0300
135.000	-.0094	.0387	.0799	-.3445	-.3029	-.2461	-.3682	-.3808	-.3449	-.2029	-.3932	-.0498	.0632	.0412
157.500	-.0094	.0423	.0958	-.3480	-.3002	-.1591	-.3439	-.3027	-.4034	-.2452	-.3585	-.0485	.1020	.0232
180.000	-.0029	.0750	.0962	-.3279	-.3001	-.2119	-.2993	-.2768	9.9990	-.1082	-.3545	.0502	.1776	.0595
202.500	-.0001	.0893	.0256	-.3924	-.3744	-.3295	-.1809	-.0560	-.0441	-.0360	-.3449	-.0898	.1416	.2326
225.000	-.0029	.0848	-.1311	-.4791	-.4669	-.3525	-.1091	-.0364	-.0462	.0232	-.3389	-.1172	-.0094	.1604
247.500			-.0510	-.4804	-.5081	-.3396	-.0547	-.0322	-.0400	.0767	-.2311	-.1360	-.0764	.0525
270.000	.2343	.4712	.5811	-.1149	.1232	-.3347	-.0924	-.0597	-.0520	.1183	-.1938	-.1297	-.0763	-.0049
292.500			.8012	.0556	.3844	-.0878	.0203	-.0306	-.0420	.0856	-.3510	-.1343	-.0633	.0000
315.000	.5718	.7277	.7264	-.0452	.3603	.0363	.0734	-.0232	-.0436	.0257	-.3915	-.1564	.1901	-.0809
337.500	.6248	.7326	.6946	-.0837	.2658	.1441	.0895	9.9990	-.0604	.0052	-.4171	-.1808	.3007	.2363
360.000	.5994	.6366	.6031	-.1307	.1555	.0093	.0309	-.0939	-.0960	-.0216	-.4180	-.2221	.2918	.3167

(R2501)

SRM BOOSTER

MSFC 567(1A32F) T9 S3/2 S3/2 03

SRM BOOSTER

MSFC 567(1A32F) T9 S3/2 S3/2 03

SRM BOOSTER

MA 1 (5) = 1.460 ALPHA (2) = -8.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.5673	.5844	.1445	.0632	-.0429	.0162	-.1000	-.1114	-.0314	-.4005	-.1608	.2956	3230
22.500	.4026	.4953	.4998	-.1745	-.0283	.0595	-.0822	-.1806	-.1823	-.1112	-.3888	-.1013	-.2143	.4071
45.000	.3091	.3987	.4046	-.2185	-.1107	.0374	-.1748	-.2459	-.2504	-.2030	-.4000	-.0248	.1501	.3879
67.500	.1303	.1752	.3054	-.2566	-.1847	-.1128	-.2541	-.2942	-.3179	-.2174	-.4070	.0159	.1225	.3026
90.000	.0345	.0619	.1993	-.3027	-.2406	-.1250	-.3121	-.3550	-.2635	-.1793	-.3810	.0195	.0902	.1906
112.500	.0097	.0665	.1457	-.3153	-.2585	-.1830	-.2977	-.3137	-.2169	-.1356	-.3690	.0070	.0689	.1069
135.000	.0037	.0685	.1391	-.3124	-.2646	-.1801	-.2817	-.2127	-.2278	-.1552	-.3719	-.0150	.0845	.0992
157.500	.0037	.0685	.1376	-.3102	-.2673	-.1930	-.1767	-.1457	-.2559	-.2583	-.3507	-.0452	.1102	.0918
180.000	.0050	.0644	.1376	-.3102	-.2673	-.1930	-.1767	-.1457	-.2559	-.2583	-.3507	-.0452	.1102	.0918
202.500	.0050	.0644	.1376	-.3102	-.2673	-.1930	-.1767	-.1457	-.2559	-.2583	-.3507	-.0452	.1102	.0918
225.000	.0188	.1808	.0052	-.4484	-.4475	-.3802	-.0901	-.0386	-.0382	.0429	-.2259	-.0784	.0355	.1965
247.500	.1865	.5345	.0751	-.4373	-.5010	-.3405	-.0408	-.0334	-.0343	.0935	-.2120	-.1037	-.0388	.0995
270.000	.4232	.6925	.6333	-.1001	-.1340	-.3325	-.0437	-.0642	-.0482	.1326	-.1852	-.0973	-.0401	.0289
292.500	.4689	.6729	.7897	.0232	.1484	-.0930	-.0289	-.0456	-.0530	.1052	-.3608	-.1038	-.0257	.0281
315.000	.4673	.5844	.6975	-.0772	.0991	.0338	.0493	-.0315	-.0555	.0350	-.3753	-.1205	.2204	-.0752
337.500	.4673	.5844	.6975	-.0772	.0991	.0338	.0493	-.0315	-.0555	.0350	-.3753	-.1205	.2204	-.0752
360.000	.4673	.5844	.6975	-.0772	.0991	.0338	.0493	-.0315	-.0555	.0350	-.3753	-.1205	.2204	-.0752

MACH (5) = 1.460 ALPHA (3) = -5.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.5333	.5124	-.1706	-.0322	-.0187	-.1163	-.0763	-.1326	-.0113	-.3510	-.0640	.2573	3062
22.500	.2848	.4102	.4543	-.1939	-.0840	.0658	-.1294	-.1130	-.1563	-.0558	-.3531	-.0664	.2258	.3883
45.000	.2438	.3287	.3818	-.2257	-.1354	.0580	-.1571	-.1350	-.1636	-.0917	-.3564	-.0648	.2152	.3744
67.500	.1535	.1919	.3091	-.2506	-.1701	-.0150	-.1848	-.1661	-.1714	-.1146	-.3681	-.0680	.2230	.3279
90.000	.0813	.1168	.1927	-.2853	-.2073	-.1048	-.1812	-.1081	-.1420	-.0603	-.2939	-.0486	.1948	.2765
112.500	.0617	.1184	.1870	-.2779	-.2183	-.1436	-.1648	-.0775	-.1171	-.0565	-.2992	.0613	.1650	.2254
135.000	.0719	.1849	.2160	-.2930	-.2298	-.1432	-.0917	-.0587	-.1007	-.0585	-.2934	.0523	.1691	.1703
157.500	.0735	.2624	.1918	-.3181	-.3222	-.2737	-.0386	-.0493	-.0370	.0049	-.2211	.0049	.1561	.1966
180.000	.0965	.3011	.1733	-.3647	-.4223	-.3634	-.0709	-.0293	-.0548	-.2585	-.0553	.0291	.1973	.2736
202.500	.2218	.5839	.2787	-.3474	-.4667	-.3764	-.0202	-.0255	-.0358	.1051	-.1793	-.0827	-.0149	.1226
225.000	.3124	.6439	.6892	-.0856	-.2334	-.3436	-.0488	-.0507	-.0511	.1450	-.1634	-.0592	-.0095	.0347
247.500	.3412	.5893	.7399	-.0370	-.1268	-.1072	-.1297	-.0257	-.0848	.1224	-.3462	.0704	.0172	.0591
270.000	.3148	.5333	.6170	-.1330	-.0942	.0258	-.1236	-.0162	-.0876	.0739	-.3395	-.0737	.2667	.0568
292.500	.3148	.5333	.6170	-.1330	-.0942	.0258	-.1236	-.0162	-.0876	.0739	-.3395	-.0737	.2667	.0568
315.000	.3148	.5333	.6170	-.1330	-.0942	.0258	-.1236	-.0162	-.0876	.0739	-.3395	-.0737	.2667	.0568
337.500	.3148	.5333	.6170	-.1330	-.0942	.0258	-.1236	-.0162	-.0876	.0739	-.3395	-.0737	.2667	.0568
360.000	.3148	.5333	.6170	-.1330	-.0942	.0258	-.1236	-.0162	-.0876	.0739	-.3395	-.0737	.2667	.0568

(R825011)

NSFC 567(1A32F) T9 53/2 53/2 03 SRM BOOSTER

MACH (5) = 1.480 ALPHA (4) = -2.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.2133	.3705	.4290	-.2025	-.1127	.0426	-.1306	-.0185	-.1016	.0662	-.3070	-.0787	.2842
22.500	.2053	.2987	.3905	-.2170	-.1411	.0914	-.1129	-.0933	-.0501	.0192	-.3205	-.1441	-.2693	.3840
45.000	.1964	.2609	.3369	-.2343	-.1998	.0914	-.1053	-.0236	-.0914	-.0154	-.3131	-.1457	-.2740	.3810
67.500	.1738	.2024	.2685	-.2489	-.1697	.0186	-.1020	-.0216	-.0918	-.0403	-.3159	-.1155	-.2954	.3516
90.000	.1306	.1681	.2269	-.2644	-.1721	-.0126	-.0925	-.0170	-.0823	-.0452	-.2997	-.0778	-.3291	.3259
112.500	.1143	.1748	.2217	-.2658	-.1784	-.0902	-.0583	-.0130	-.0706	-.0383	-.2522	-.0313	-.3450	.3022
135.000	.1293	.2134	.2615	-.2615	-.1301	-.0061	-.0179	-.0563	-.0338	-.0441	-.2094	-.0441	-.2862	.2797
157.500	.1392	.2306	.2842	-.2673	-.1967	-.1624	.0143	-.0203	-.0477	-.0174	-.1877	.0596	.2158	.2452
180.000	.1543	.2639	.3020	-.2758	-.2705	-.2093	.0033	-.0277	-.0232	.0457	-.1750	.0192	.0992	.1804
202.500	.1687	.2987	.3279	-.2850	-.3694	-.2845	-.0403	-.0256	-.0191	.0690	-.1902	-.0367	.0306	.1511
225.000	.1831	.3336	.3632	-.2440	-.3803	-.3215	-.0530	-.0267	-.0381	.1334	-.1566	-.0603	.0118	.1351
247.500	.1975	.3680	.3977	-.2025	-.4044	-.3156	-.1065	-.0579	-.0591	.2021	-.1457	-.0436	.0216	.1310
270.000	.2119	.4024	.4321	-.1606	-.4285	-.2486	-.1481	-.0053	-.0789	.2387	-.3295	-.0432	.0596	.0857
292.500	.2263	.4370	.4667	-.1187	-.4526	-.1811	-.1392	.0163	-.0926	.2999	-.2909	-.0330	.3253	-.0946
315.000	.2407	.4716	.5013	-.0768	-.4767	-.1139	-.1244	.09990	-.1068	.1608	-.3078	-.0649	.3495	.1693
337.500	.2551	.5062	.5359	-.0349	-.5008	-.0429	-.1306	-.0195	-.1016	.0862	-.3070	-.0787	.2842	.2903
360.000	.2695	.5408	.5705	.0070	-.5249	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

MACH (5) = 1.480 ALPHA (5) = .000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1687	.3148	.3695	-.2326	-.1750	-.0035	-.1281	.0388	-.0713	.1572	-.2771	-.1428	.3050
22.500	.1666	.2405	.3467	-.2468	-.1754	.0715	-.1027	.0454	-.0647	.0874	-.2876	-.1749	-.3016	.3938
45.000	.1800	.2143	.3041	-.2524	-.1724	.0809	-.0810	.0307	-.0614	.0433	-.2826	-.1230	-.2918	.3796
67.500	.1915	.1997	.2469	-.2512	-.1741	.0001	-.0594	.0184	-.0480	.0029	-.2789	-.0786	-.3430	.3538
90.000	.1750	.2138	.2401	-.2624	-.1664	-.0211	-.0346	.0115	-.0354	-.0215	-.2488	-.0321	-.4022	.3304
112.500	.1650	.2384	.2442	-.2513	-.1733	-.0974	.0013	-.0063	-.0321	-.0239	-.1928	.0111	-.3759	.3143
135.000	.1891	.2638	.2921	-.2547	-.1711	-.1274	.0246	-.0149	-.0279	-.0210	-.1635	.0752	-.3030	.3006
180.000	.1964	.3220	.3532	-.2439	-.1762	-.1288	.0299	-.0096	.0344	-.0043	-.1586	.0613	-.2267	.2740
202.500	.2015	.5111	.4246	-.2389	-.2287	-.1556	.0046	-.0132	-.0095	.0617	-.1509	.0225	-.0927	.1837
225.000	.2155	.7011	.5611	-.2466	-.3330	-.2066	-.0210	-.0149	-.0149	.0988	-.1642	-.0243	-.0229	.1254
247.500	.2180	.5628	.6068	-.2477	-.3296	-.2475	-.0606	-.0218	-.0263	.1388	-.1305	-.0403	.0196	.1287
270.000	.2192	.3904	.6068	-.1917	-.3277	-.0741	-.1529	.0327	-.0664	.2936	-.3246	-.0349	.0752	.0755
315.000	.1687	.3148	.3695	-.2326	-.1750	-.0035	-.1281	.0388	-.0713	.1572	-.2771	-.1428	.3050	.3050
337.500	.2192	.3904	.4128	-.2252	-.1991	.1025	-.1231	.09990	-.0807	.2601	-.2831	-.0704	.3663	.1626
360.000	.1687	.3148	.3695	-.2326	-.1750	-.0035	-.1281	.0388	-.0713	.1572	-.2771	-.1428	.3050	.3050

TABLATED SOURCE DATA, MSFC TMT 567 (1A3ZF)

DATE 05 SEP 75

(R62501)

MACH (5) = 1.480 ALPHA (6) = 2.000 Q = 9.4739 P1A = 22.009 R.L. = 6.530U PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.3433	.0722	.1013	.1199	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1207	.2682	.3038	.2407	-.2011	.0174	-.1150	.0570	-.0388	.2186	-.2477	-.1393	.3303	.3099
22.500	.1154	.1849	.2660	-.2570	-.1898	.0705	-.0822	.0836	-.0413	.1612	-.2532	-.1487	.3160	.3907
45.000	.1330	.1722	.2572	-.2628	-.1888	.0759	-.0519	.0444	-.0400	.1122	-.2516	-.0829	.3160	.3789
67.500			.2192	-.2602	-.1871	-.0241	.0170	.0315	.0571	.0571	-.2347	-.0319	.4024	.3513
90.000	.1757	.2004	.2233	-.2615	-.1785	-.0595	.0088	-.0168	-.0180	.0084	-.1690	.0133	.4154	.3171
112.500			.2592	-.2512	-.1785	-.1021	.0379	-.0176	-.0167	-.0078	-.1409	.0934	.3381	.3021
135.000	.1975	.2491	.3171	-.2396	-.1731	-.1188	.0440	-.0147	-.0135	-.0053	-.1556	.1321	.2575	.2844
157.500	.2041	.2550	.3773	-.2250	-.1695	-.1213	.0285	-.0090	.0078	.0130	-.1335	.1485	.2497	.2682
180.000	.2360	.3138	.4083	-.2205	-.1560	-.0886	.0097	-.0024	9.9890	.0432	-.1241	.1048	.2068	.2738
202.500	.2464	.3718	.4411	-.2123	-.1849	-.1004	-.0025	-.0086	.0787	-.1259	.0476	.1170	.2268	.2268
225.000	.2513	.5820	.4983	-.2082	-.2915	-.1319	-.0123	-.0127	.1101	-.1376	.0007	.0497	.1539	.1539
247.500			.6424	-.1213	-.3086	-.1870	-.0196	.0019	.1489	-.1062	-.0180	.0436	.1551	.1551
270.000	.2253	.6548	.7718	-.0446	-.3252	-.2104	-.0548	.0050	.2265	-.0972	-.0090	.0501	.1615	.1615
292.500			.8239	-.2063	-.3558	-.1687	-.0838	.0427	.3050	-.3050	-.0098	.1008	.1040	.1040
315.000	.1692	.5021	.3687	-.2669	-.3427	-.0641	-.1081	.0550	-.0343	.3165	-.2430	.0031	.3556	-.0515
337.500	.1514	.3572	.3430	-.25C	-.2390	.0648	-.1107	9.9990	-.0372	.2870	-.2495	-.0548	.3836	.1880
360.000	.1207	.2622	.3038	-.2407	-.2011	.0174	-.1150	.0570	-.0388	.2186	-.2477	-.1383	.3303	.3099

MACH (5) = 1.480 ALPHA (7) = 5.000 Q = 9.4739 P1A = 22.009 R.L. = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1199	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.0580	.1840	.2252	-.2878	-.2543	.0887	-.1025	.0699	.0117	.2313	-.1794	-.0491	.3193	.3001
22.500	.0491	.1187	.2281	-.2947	-.2323	.0513	-.0747	.0807	-.0025	.1709	-.1822	-.1189	.3326	.3697
45.000	.0748	.1191	.2000	-.2825	-.2259	.0399	-.0462	.0199	-.0195	.1383	-.1810	-.0413	.4095	.3813
67.500			.1811	-.2870	-.2188	-.1221	-.0225	-.0347	-.0195	.1244	-.1535	.0060	.3603	.2576
90.000	.1505	.1905	.2207	-.2783	-.2024	-.1278	-.0041	-.0576	-.0208	.1003	-.1416	.1660	.2689	.2266
112.500			.2886	-.2591	-.1924	-.1250	.0000	-.0445	-.0290	.0342	-.1520	.1939	.2890	.2609
135.000	.2382	.3210	.3601	-.2313	-.1640	-.1167	.0261	-.0375	-.0330	-.0028	-.1351	.2081	.3362	.3399
157.500	.2748	.3948	.4214	-.2087	-.1368	-.0743	-.0257	-.0245	-.0225	.0150	-.1245	.1823	.3293	.3767
180.000	.3444	.4346	.4820	-.1943	-.1032	-.0376	.0023	.0011	9.9990	.0581	-.1228	.1611	.2673	.3493
202.500	.3507	.5055	.5239	-.1805	-.1193	-.0596	.0150	.0003	.0068	.0967	-.1291	.1049	.2174	.3273
225.000	.3311	.6889	.5917	-.1572	-.0915	-.0093	-.0012	.0028	.0068	.0967	-.1291	.1049	.2174	.3273
247.500			.7220	-.0584	-.2939	-.1658	-.0025	.0129	.0121	.1774	-.0581	.0032	.0844	.2039
270.000	.2111	.6884	.7350	-.0567	-.3251	-.1878	-.0269	.0261	.0142	.2221	-.0568	.0019	.0930	.2151
292.500			.3456	-.3102	-.3915	-.2194	-.0347	.0489	.0267	.2733	-.1595	.0294	.0990	.1757
315.000	.1086	.3897	.2030	-.3490	-.3821	-.1872	-.0593	.0571	.0167	.2868	-.1603	.0774	.3006	.0440
337.500	.0913	.2158	.2322	-.3094	-.3017	-.0918	-.0795	9.9990	.0097	.2746	-.1724	.0452	.3626	.2343
360.000	.0550	.1840	.2252	-.2878	-.2543	.0887	-.1025	.0699	.0117	.2313	-.1794	-.0491	.3193	.3001

ORIGINAL PAGE IS OF POOR QUALITY

(R82501)

MSFC 567(1A32F) TO S3/2 S3/2 03 SRM BOOSTER

MACH (5) = 1.460 ALPHA (8) = 0.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 8.3819

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	PHI	0.433	.0722	.1013	.1159	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.1788	-.0191	.1788	.1347	-.3340	-.2727	.1110	-.0779	.0584	.0388	.2409	-.1632	-.0052	.3957	.2266
22.500	.1008	-.0024	.1008	.1506	-.3278	-.2547	-.0314	-.0849	.0106	-.0338	.1159	-.1710	-.1008	.4153	.3148
45.000	.0868	.0273	.0868	.1327	-.3209	-.2576	-.0922	-.0862	-.0877	-.0334	.0824	-.1799	-.0330	.4587	.2530
67.500	.1792	.1268	.1792	.1107	-.3294	-.2592	-.1947	-.0950	-.0411	-.0199	.1131	-.1662	.1217	.2913	.1614
90.000	.3922	.4907	.3922	.2780	-.2727	-.2346	-.1665	-.1784	-.1253	-.0902	.0526	-.1587	.1857	.2840	.2044
112.500	.3636	.4410	.3636	.2844	-.2295	-.1605	-.1233	-.1167	-.1147	-.0910	-.0277	-.1261	.2198	.3563	.3142
157.500	.6313	.6717	.6313	.4904	-.1944	-.1069	-.0436	-.0440	-.0792	-.0448	-.0171	-.1339	.2263	.3758	.4305
180.000	.5745	.6113	.5745	.5361	-.1714	-.0655	.0102	.0232	-.0101	.09950	.0956	-.1159	.1959	.3403	.4395
202.500	.6717	.7101	.6717	.6611	-.1533	-.0525	.0240	.0559	.0204	.0204	.0732	.1518	-.0861	.0122	.0910
225.000	.5648	.6003	.5648	.6113	-.1190	-.1392	-.0550	.0592	.0306	.0323	.1073	-.1482	.0992	.2490	.2756
247.500	.6400	.6777	.6400	.6717	-.0073	-.1865	-.1765	.0228	.0347	.0469	.2059	-.0191	-.0020	.0808	.2224
270.000	.6400	.6777	.6400	.6717	-.0073	-.1865	-.1765	.0228	.0347	.0469	.2059	-.0191	-.0020	.0808	.2224
292.500	.6400	.6777	.6400	.6717	-.0073	-.1865	-.1765	.0228	.0347	.0469	.2059	-.0191	-.0020	.0808	.2224
315.000	.6400	.6777	.6400	.6717	-.0073	-.1865	-.1765	.0228	.0347	.0469	.2059	-.0191	-.0020	.0808	.2224
337.500	.6400	.6777	.6400	.6717	-.0073	-.1865	-.1765	.0228	.0347	.0469	.2059	-.0191	-.0020	.0808	.2224
360.000	.6400	.6777	.6400	.6717	-.0073	-.1865	-.1765	.0228	.0347	.0469	.2059	-.0191	-.0020	.0808	.2224

MACH (5) = 1.460 ALPHA (9) = 10.000 Q = 9.4738 PTA = 22.009 RL = 6.5303 PSA = 6.3619

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	PHI	0.433	.0722	.1013	.1159	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.1330	.0118	.1330	.0901	-.3503	-.2789	-.0827	-.0827	.0387	.0710	.2231	-.1561	.0462	.3587	.1865
22.500	.0682	-.0258	.0682	.1186	-.3398	-.2713	-.1427	-.1125	-.0676	-.0876	.0976	-.1608	-.0583	.4163	.2563
45.000	.0258	-.0072	.0258	.0833	-.3381	-.2802	-.1590	-.1541	-.0692	-.1173	.0241	-.1603	.0078	.3891	.1356
67.500	.1531	.1184	.1531	.0596	-.3504	-.2800	-.2488	-.2190	-.0778	-.0857	.0857	-.1538	.1470	.2716	.1538
90.000	.4157	.5385	.4157	.1277	-.3341	-.2823	-.2460	-.2784	-.1411	-.0456	.0771	-.1199	.1821	.2858	.2005
112.500	.3385	.4569	.3385	.2478	-.2886	-.2270	-.2012	-.2396	-.2731	-.0992	.0608	-.1746	.2238	.3871	.3058
135.000	.5305	.6244	.5305	.3708	-.2359	-.1510	-.1167	-.1420	-.1956	-.1473	.0518	-.1529	.2344	.3761	.3942
160.000	.6876	.7064	.6876	.4757	-.1874	-.0794	-.0085	-.0562	-.1032	-.1128	-.0407	-.1721	.2332	.4373	.4720
202.500	.5530	.5296	.5530	.6301	-.1325	-.0019	.0098	.0832	.0412	.0335	.0996	-.1631	.1000	.4104	.4920
225.000	.2782	.1392	.2782	.6905	-.0942	-.0460	-.0420	.0870	.0572	.0535	.1494	-.1299	.0295	.1286	.2871
247.500	.1330	.0118	.1330	.7840	-.0151	.0722	-.1559	.0368	.0691	.0691	.2006	-.0168	.0102	.0854	.2209
270.000	.1330	.0118	.1330	.8495	-.0819	.2691	-.2899	.1231	.0208	.0967	.2509	-.0187	.0135	.1031	.2210
292.500	.1330	.0118	.1330	.9044	-.3761	.4227	-.2925	-.0313	.0682	.1188	.2795	-.1489	.0278	.1638	.2550
315.000	.1330	.0118	.1330	.9828	-.3733	.3888	-.3174	-.0113	.0649	.1188	.2795	-.1363	.0825	.2552	.2429
337.500	.1330	.0118	.1330	.0413	-.3887	-.3128	-.2786	-.0145	.09950	.1127	.2845	-.1617	.0850	.4028	.1256
360.000	.1330	.0118	.1330	.0991	-.3503	-.2789	-.0827	-.0827	.0387	.0710	.2231	-.1561	.0462	.3587	.1865

MFSC 567(1A32F) TB S3/2 S3/2 03 SM BOOSTER (082501)

MACH (6) = 1.080 ALPHA (1) = -8.000 Q = 10.290 PTA = 27.988 RL = 7.0986 PSA = 3.8878

SECTION (1) SM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PH1	.000	.3038	.4478	.5227	.6083	.6287	.6295	.6724	.6951	-.0188	-.2324	-.1730	.1423	.2775
22.500	.3878	.3888	.423	-.0250	.0255	.8111	-.0145	-.0028	-.0017	-.0787	-.2388	-.1817	.0008	.2678
45.000	.3108	.3381	.3883	-.0848	-.0884	.1870	-.0724	-.0838	-.1812	-.1448	-.2588	-.1931	.0211	.1888
67.500	.1801	.1803	.1834	-.1088	-.0788	-.0488	-.1888	-.1810	-.1888	-.1874	-.2588	-.1788	.0883	.1228
90.000	.1834	.1834	.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	.0143	.0847
112.500	.0912	.0912	.0912	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	.0387	.0417
135.000	.0724	.0724	.0724	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	.0882	.0668
157.500	.0871	.0871	.0871	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	.1956	-.0881
180.000	.0875	.0875	.0875	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	.2701	.0151
202.500	.0448	.0875	.1821	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	-.1834	.2015	.2355
225.000	.0420	.0888	.2080	-.1912	-.2842	-.2848	-.1488	.0282	-.0018	-.0182	-.1868	-.0392	.0409	.1108
247.500	.1820	.2481	.3678	-.1387	-.2892	-.2955	-.1390	.0812	-.0184	-.0103	-.1418	-.0575	-.0150	.0510
270.000	.2525	.4855	.6049	-.2535	-.3222	-.3222	-.1268	.1284	-.0840	-.0250	-.1380	-.0768	-.0243	.0733
292.500	.3373	.5103	.6575	-.0269	.0312	.0480	.1875	.0055	-.0243	-.1813	-.0900	.0517	-.1056	.1150
315.000	.3878	.5103	.6575	.1018	.1194	.3410	.0727	.9990	.0267	-.0091	-.2181	-.1380	.2168	.2547
337.500	.3838	.4478	.5227	.0372	.0683	.0297	.0255	.0724	-.0051	-.0188	-.2324	-.1730	.1423	.2775

MACH (6) = 1.080 ALPHA (2) = -5.000 Q = 10.290 PTA = 27.988 RL = 7.0986 PSA = 3.8878

SECTION (1) SM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PH1	.000	.3088	.3448	.3882	.4282	.4525	.4650	.4884	.5005	-.0458	-.2232	-.1447	.1765	.2822
22.500	.2982	.3177	.3417	-.0747	.0025	.1679	-.0182	.0188	-.0335	-.0800	-.2178	-.1440	.1450	.2831
45.000	.2666	.2823	.2920	-.1012	-.0394	.1259	-.0514	.0252	-.0765	-.1178	-.2265	-.1322	.1408	.2504
67.500	.2087	.2088	.2181	-.1275	-.1080	.0425	-.0872	.1245	-.1389	-.0988	-.2168	-.1085	.1705	.1538
90.000	.1250	.1250	.1250	-.1481	-.1283	-.0723	-.0648	.1406	-.0850	-.0711	-.1846	-.0394	.1498	.1565
112.500	.1383	.1383	.1383	-.1817	-.1208	-.0822	-.0828	.1172	-.0480	-.0671	-.1508	.0072	.1172	.1411
135.000	.1213	.1175	.1228	-.1709	-.1089	-.0801	-.1122	.0520	-.0334	-.0670	-.1893	.0054	.1101	.1254
157.500	.0959	.1071	.1632	-.1172	-.1000	-.1037	-.1183	.0259	.9990	-.0259	-.1923	-.0289	.1542	.0974
180.000	.0745	.1123	.2882	-.1137	-.1037	-.1056	-.1056	.0102	.0054	-.0064	-.1839	-.0467	.2581	.1942
202.500	.0741	.1360	.3439	-.1243	-.2478	-.2773	-.1381	.0185	-.0012	-.0078	-.1833	-.0278	.0798	.0988
225.000	.1493	.3495	.5370	-.0872	-.2533	-.2858	-.1187	.0565	.0002	.0028	-.1596	-.0387	.0016	.1011
247.500	.292	.522	.9606	.2134	-.1409	-.2842	-.1300	.0914	-.0121	-.0351	-.1358	-.0454	.0122	.1213
270.000	.2493	.3985	.7845	.0887	-.0332	.1388	.0413	.1208	.0181	-.0216	-.1881	-.0377	.0255	-.0842
292.500	.2939	.3798	.5611	.0808	-.0570	.2617	.0581	.9990	.0289	-.0245	-.2102	-.0863	.2073	.2473
315.000	.3058	.3445	.3992	-.0282	.0525	.0250	.0121	.0884	.0005	-.0458	-.2232	-.1447	.1765	.2822

MSFC 567(1A32F) TO S3/2 S3/2 03 5PM BOOSTER (R825011)

MACH (6) = 1.980 ALPHA (3) = -2.000 0 = 10.250 PTA = 27.998 RL = 7.0988 PSA = 3.8676

SECTION (1) 5PM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1156	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.2198	.2523	.2825	-.0776	.0052	-.0056	.0090	-.0022	.0052	-.0248	-.1925	-.0921	.3034
22.500	.2303	.2442	.2598	-.1080	-.0414	.0511	.0448	-.0474	-.0060	-.0336	-.1882	-.0687	-.2484	.3511
45.000	.2256	.2439	.2327	-.1242	-.0705	.0019	.0449	-.0556	-.0217	-.0352	-.1874	-.0504	-.2724	.2242
67.500	.2104	.2126	.2130	-.1281	-.0860	-.0309	.0150	-.0560	-.0146	-.0263	-.1760	-.0325	-.3105	.2177
90.000	.2033	.2033	.2033	-.1314	-.0980	-.0337	.0150	-.0540	-.0089	-.0232	-.1744	-.0307	-.3284	.2616
112.500	.1866	.1866	.1866	-.1345	-.1048	-.0507	.0019	-.0263	.0060	-.0109	-.1450	-.0132	.3040	.2724
135.000	.1650	.1650	.1650	-.1397	-.0940	-.0408	.0318	.0029	.0180	-.0069	-.1352	.0580	.2169	.2343
157.500	.1458	.1458	.1458	-.1471	-.0928	-.0575	-.0541	.0119	.0161	-.0049	-.1450	.0814	.1528	.1993
180.000	.1237	.1237	.1237	-.1128	-.0560	-.0680	-.0470	.0217	.9.9990	-.0003	-.1554	.0615	.1272	.1756
202.500	.1244	.1244	.1244	-.0432	-.1811	-.2176	-.1142	-.0007	.0203	.0127	-.1946	.0496	.1209	.1678
225.000	.1572	.1572	.1572	.0308	-.1872	-.2507	-.0560	.0248	.0203	.0240	-.1393	-.0143	.0447	.1565
247.500	.1844	.1844	.1844	.2423	-.1467	-.2521	-.1215	.0142	-.0135	-.0049	-.1144	-.0139	.0511	.1606
292.500	.2060	.2060	.2060	.0841	.0410	-.0986	-.0518	.0387	.0319	.0059	-.1656	.0112	.1258	.0596
315.000	.2013	.2013	.2013	.0104	-.0155	-.0012	.0391	.9.9990	.0315	-.0053	-.1889	-.0030	.2678	.2934
337.500	.2199	.2199	.2199	-.0778	.0052	-.0056	.0090	-.0022	.0052	-.0248	-.1925	-.0921	.2489	.3034

MACH (8) = 1.980 ALPHA (4) = .000 0 = 10.250 PTA = 27.998 RL = 7.0988 PSA = 3.8676

SECTION (1) 5PM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1156	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1958	.2310	-.0043	-.0286	.0067	-.0004	-.0263	.0104	.0033	-.1729	-.0444	.2737	.3267
22.500	.1960	.1960	.1960	-.1236	-.0847	-.0286	.0187	-.0463	.0090	-.0094	-.1682	.0033	.3075	.3241
45.000	.2031	.2078	.2042	-.1347	-.0878	-.0405	.0338	-.0435	.0143	-.0115	-.1608	.0173	.3594	.1901
67.500	.2086	.2224	.2049	-.1323	-.0981	-.0342	.0434	-.0267	.0278	-.0011	-.1451	.0311	.4245	.2756
90.000	.2126	.2126	.2096	-.1337	-.0972	-.0352	.0338	-.0097	.0315	.0026	-.1280	.0263	.4332	.3221
112.500	.2057	.2057	.2126	-.1321	-.0907	-.0395	.0067	.0180	.0293	.0123	-.1097	.0443	.3243	.3044
135.000	.2064	.1951	.2271	-.1263	-.0729	-.0533	.0330	.0330	.0312	.0112	-.1214	.1135	.2109	.2417
157.500	.1980	.1980	.2523	-.0904	-.0358	-.0625	.0350	.0327	.9.9990	.0116	-.1321	.1042	.1944	.2145
180.000	.1771	.2211	.3784	-.0143	-.0558	-.1038	-.0177	.0154	.0221	.0090	-.1368	.0684	.4429	.1651
202.500	.1525	.2607	.5975	.0060	-.1354	-.1644	-.0388	.0052	.0169	.0297	-.1210	.0394	.0447	.1500
247.500	.1510	.3059	.8078	.0857	-.1445	-.2137	-.0592	.0037	.0037	.0526	-.0879	.0105	.0447	.1515
292.500	.1502	.2805	.6443	.1018	-.1368	-.2220	-.1239	-.0120	-.0416	-.0041	-.0193	-.0082	.0436	.1975
315.000	.1611	.2266	.4251	.0018	-.1307	-.0926	.0470	.0229	.0240	.0255	-.1639	.0150	.3755	.2424
337.500	.1753	.1956	.2310	-.0843	-.0286	.0067	-.0004	-.0263	.0104	.0033	-.1729	-.0444	.2737	.3267

TABLATED SOURCE DATA, MSFC INT 567 (1A32F)

(R62501)

MACH (6) = 1.860 ALPHA (5) = 2.000 0 = 10.250 PTA = 27.958 RL = 7.0986 PSA = 3.8676

DEPENDENT VARIABLE CP

SECTION (1) SPM BOOSTER	X/LS	Phi	0.000	0.0722	0.1013	0.1158	0.1518	0.2240	0.3323	0.4405	0.5488	0.6570	0.7653	0.8634	0.9122	0.9555
Phi																
0.000	1.388	1.428	1.858	-0.0888	-0.0851	0.0338	0.0000	-0.0102	0.131	0.266	0.413	0.568	0.733	0.893	1.022	1.055
22.500	1.621	1.493	1.828	-0.1437	-0.0854	-0.3005	0.328	-0.384	0.293	0.014	0.293	0.014	-0.1522	0.030	0.296	0.330
45.000	1.658	1.771	1.828	-0.1434	-0.0956	-0.483	0.530	-0.253	0.429	0.044	0.429	0.044	-0.1398	0.109	0.452	0.256
67.500			2.062	-0.1337	-0.1094	-0.440	0.541	-0.023	0.473	0.104	0.473	0.104	-0.1177	0.0703	0.5288	0.3046
90.000	2.179	2.160	2.115	-0.1295	-0.1020	-0.455	0.263	0.142	0.368	0.101	0.368	0.101	-0.0882	0.056	0.4215	0.167
112.500			2.253	-0.1254	-0.0886	-0.184	0.379	0.379	0.252	0.154	0.252	0.154	-0.0951	0.1519	0.2778	0.2575
135.000	2.346	2.452	2.395	-0.1198	-0.0695	-0.320	0.441	0.432	0.274	0.176	0.274	0.176	-0.1026	0.1696	0.2617	0.2873
157.500	2.418	2.459	2.667	-0.1072	-0.0536	-0.378	0.449	0.346	0.320	0.165	0.320	0.165	-0.1102	0.1324	0.2795	0.3197
180.000	2.431	2.578	3.025	-0.0663	-0.0385	-0.231	0.330	0.9950	0.128	0.1100	0.128	0.1100	-0.1228	0.1228	0.2212	0.2603
202.500	2.225	2.663	4.251	0.0075	-0.0188	-0.674	0.075	0.259	0.255	0.191	0.255	0.191	-0.1209	0.0738	0.1226	0.1675
225.000	1.889	3.151	6.281	0.349	-0.0934	-1.280	0.160	0.180	0.150	0.0639	0.150	0.0639	-0.0941	0.018	0.045	0.035
247.500			8.829	1.301	-0.1148	-1.914	-0.037	0.139	0.041	0.0906	0.041	0.0906	-0.0558	-0.079	0.040	0.040
270.000	1.502	3.118	1.0421	2.445	-0.1442	-1.994	-0.049	0.097	-0.337	0.304	-0.337	0.304	-0.0229	0.000	0.039	0.1520
292.500			7.564	0.511	-0.1723	-2.131	0.221	0.149	0.047	0.372	0.047	0.372	-0.1429	0.285	0.1577	0.0525
315.000	1.161	2.236	5.527	-0.375	-0.1707	-1.813	0.210	0.269	0.256	0.515	0.256	0.515	-0.1436	0.010	0.273	0.1795
337.500	1.185	1.829	3.418	-0.414	-0.0858	-0.986	-0.083	0.9950	0.067	0.372	0.067	0.372	-0.1427	-0.021	0.177	0.235
360.000	1.399	1.496	1.959	-0.0888	-0.0651	0.338	0.030	-0.102	0.131	0.266	0.131	0.266	-0.1522	0.030	0.296	0.333

MACH (6) = 1.860 ALPHA (6) = 5.000 0 = 10.250 PTA = 27.958 RL = 7.0986 PSA = 3.8676

DEPENDENT VARIABLE CP

SECTION (1) SPM BOOSTER	X/LS	Phi	0.0744	0.1079	0.1594	0.1094	0.0961	-0.0033	0.101	0.327	0.138	0.962	0.920	0.105	0.266	0.1973
Phi																
0.000	1.095	1.122	1.160	-0.1709	-0.0989	-0.0516	0.267	0.008	0.226	0.019	0.226	0.019	-0.0958	0.005	0.374	0.1758
22.500	1.297	1.428	1.327	-0.1695	-0.1240	-0.454	0.379	-0.161	0.315	0.379	0.315	0.379	-0.1046	0.044	0.502	0.2682
45.000			1.717	-0.1580	-0.1323	-0.682	-0.084	-0.079	0.293	0.029	0.293	0.029	-0.0722	0.089	0.276	0.276
67.500			2.019	-0.1364	-0.1175	-0.712	-0.516	0.000	0.123	0.074	0.123	0.074	-0.0588	0.1757	0.2958	0.293
90.000	1.909	2.071	2.489	-0.1148	-0.0836	-0.535	-0.700	0.003	0.004	0.000	0.004	0.000	-0.0812	0.288	0.358	0.345
112.500			2.709	-0.1016	-0.0512	-0.372	-0.696	-0.135	0.037	-0.041	0.037	-0.041	-0.11	0.1829	0.322	0.353
135.000	3.029	3.120	3.364	-0.0790	-0.045	-0.184	-0.455	0.044	0.131	-0.004	0.131	-0.004	-0.0847	0.187	0.2662	0.307
157.500	3.136	3.579	4.038	-0.0208	0.0417	-0.169	-0.293	0.383	0.9950	0.168	0.168	0.168	-0.0810	0.138	0.2553	0.320
180.000	2.975	3.813	5.292	0.0450	0.045	-0.157	0.022	0.477	0.350	0.330	0.350	0.330	-0.0837	0.209	0.201	0.262
202.500	2.456	3.670	7.786	0.043	-0.321	-1.003	0.235	0.551	0.357	0.613	0.357	0.613	-0.112	0.058	0.234	0.292
225.000			9.829	2.103	-0.0825	-1.711	0.285	0.556	0.293	0.112	0.293	0.112	-0.0270	0.055	0.152	0.192
247.500	1.972	2.847	1.0208	2.394	-0.1276	-1.922	0.359	0.527	0.167	0.167	0.167	0.167	-0.0876	0.124	0.076	0.232
270.000			6.112	-0.3309	-0.1994	-0.855	0.822	0.572	0.259	0.185	0.259	0.185	-0.0540	0.034	0.133	0.135
292.500	0.858	1.658	3.979	-0.024	-0.2026	-1.916	0.153	0.520	0.244	0.225	0.244	0.225	-0.0700	0.033	0.215	0.215
315.000	0.756	1.169	2.581	-0.031	-1.415	-1.476	0.040	0.9950	0.175	0.137	0.175	0.137	-0.0845	-0.022	0.153	0.153
337.500	0.744	1.079	1.594	-0.1094	-0.0981	-0.033	0.101	0.327	0.135	0.962	0.135	0.962	-0.0820	0.021	0.245	0.245

ORIGINAL PAGE IS OF POOR QUALITY

MACH (8) = 1.800 ALPHA (7) = 0.000 0 = 10.280 PTA = 27.998 RL = 7.0286 PSL = 3.8878
 MFSC 987(1A32F) TR 93/2 93/2 03 SRM BOOSTER (A82501)

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	9999
(PH)	.0372	.0552	.1344	-.1182	-.1310	.1258	-.0251	.0165	.0503	.1750	-.0687	.0226	-.2642	.1978
22 500	.0648	.0537	.0729	-.1730	-.1201	-.0070	-.0217	-.0127	-.0087	.0489	-.0693	.0867	.3948	2303
45 000	.1032	.0814	.0886	-.1827	-.1478	-.0408	-.0886	-.0412	-.0220	.0165	-.0508	.0561	.5266	3265
67 500	.1782	.1218	.1256	-.1724	-.1540	-.0395	-.1134	-.0473	-.0135	.0413	-.0787	.0653	.4361	4105
90 000	.3105	.3319	.3424	-.0738	-.0310	-.0340	-.0772	-.0671	-.0765	.0876	-.0516	.2871	.3182	2753
112 500	.3749	.3925	.4369	-.0130	.0214	.0195	-.0254	-.0085	-.0284	-.0393	-.0711	.2081	.3269	3584
135 000	.4348	.4295	.4510	.0780	.0654	.0216	.0422	.0490	.0154	-.0797	.2069	.3156	.3730	3730
157 500	.4940	.4771	.4776	.0917	.1052	.0357	.0631	.0740	.0609	.0503	-.0752	.1360	.2825	3687
180 000	.5335	.4681	.6980	.1267	.0289	-.0847	.0791	.0851	.0581	.0671	-.1259	.0575	.1251	2507
202 500	.2151	.2906	.4478	.2215	-.1054	-.1353	.0565	.0706	.0420	.1403	-.0037	.0244	.1834	2389
225 000	.3725	.1115	.2358	-.1813	-.2418	-.2845	-.0029	.0383	.0905	.2539	-.0330	.0439	.3252	1831
247 500	.0571	.0796	.1753	-.1531	-.1951	-.1857	-.0089	.9.9990	.0826	.2195	-.0405	-.0378	.3271	1472
270 000	.0372	.0952	.1344	-.1182	-.1310	.1228	-.0251	.0165	.0503	.1750	-.0687	.0226	-.2642	.1978

MACH (7) = 2.800 ALPHA (1) = -0.000 0 = 5.1894 PTA = 30.018 RL = 4.1186 PSL = 8.2571

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	9999
(PH)	.4108	.3724	.3687	.0211	.0576	.0732	.1050	.0202	.0476	.0383	-.0618	-.0398	.1149	.0588
22 500	.3654	.3541	.3486	.0137	.0170	.0290	.0640	-.0119	-.0048	-.0052	-.0719	-.0345	.1031	.2592
45 000	.2938	.2942	.2957	.0152	-.0082	-.0341	.0204	-.0365	-.0399	-.0451	-.1021	-.0633	.0420	.0442
67 500	.1580	.705	.1750	-.0384	-.0481	-.0458	-.0518	-.0834	-.0653	.0816	-.1077	-.0782	-.0443	.0111
90 000	.1368	.0514	.1368	-.0514	-.0503	-.0481	-.0832	-.0946	-.0931	-.0808	-.1039	-.0745	-.0522	.2294
112 500	.1044	.1044	.1052	-.0540	-.0570	-.0442	-.0644	-.0942	-.0944	-.0964	-.1054	-.0782	-.0492	.2146
135 000	.0999	.0806	.0806	-.0770	-.0632	-.0454	-.0881	-.0991	-.0991	-.0991	-.0924	-.0507	-.0051	.2447
157 500	.0822	.0517	.0368	-.0842	-.0592	-.0563	-.0816	-.0942	-.0942	-.0942	-.0955	-.0588	.0052	.2858
180 000	.0740	.0458	.0450	-.0630	-.0445	-.1144	-.1043	-.0935	-.0848	-.0797	-.0823	-.0332	.0546	.3131
202 500	.0666	.0513	.0871	-.0494	-.0800	-.1203	-.1059	-.0662	-.0482	-.0466	-.0816	-.0116	.0259	.2340
225 000	.1321	.1864	.1328	.0701	-.0614	-.1240	-.1034	-.0744	-.0438	-.0393	-.0947	-.0211	.0251	.2915
247 500	.2928	.4041	.4041	.0718	-.1182	.0427	-.0503	-.0272	-.0230	-.0230	-.0939	-.0577	-.0033	.2234
270 000	.2928	.4543	.4543	.1202	-.1039	.1824	.0392	.0092	.0092	.0092	-.0318	-.0042	.0042	.2593
292 500	.2900	.4543	.4543	.1120	.1889	.0328	.0803	.0358	.0358	.0358	-.0887	-.0570	.0042	.2424
315 000	.3082	.3647	.3647	.0873	.1058	.0803	.1418	.0990	.0882	.0777	-.0771	-.0503	.0066	.2338
337 500	.3108	.3794	.3887	.0211	.0578	.0792	.1090	.0200	.0478	.0383	-.0818	-.0398	.1149	.0588

TABLATED SOURCE DATA, MSFC THT 907 (1A32F)

DATE 03 SEP 75

MACH (7) = 2.950 ALPHA (2) = -5.000 0 = 5.1894 PTA = 30.018 SRM BOOSTER (R82501) PSA = .82971

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

Table with columns X/LS, PH1, and values for SRM BOOSTER section. Values range from .0433 to .3266 for X/LS and .000 to .360 for PH1.

MACH (7) = 2.950 ALPHA (3) = -2.000 0 = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

Table with columns X/LS, PH1, and values for SRM BOOSTER section. Values range from .0433 to .3266 for X/LS and .000 to .360 for PH1.

MSFC 567(1A32F) TB 53/2 53/2 03 SRM BOOSTER (R825011)

MACH (7) = 2.680 ALPHA (4) = .000 Q = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9535
PHI	.000	.1688	.1781	.1832	.1839	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832
22.500	.1946	.1783	.1787	.1787	.1787	.1787	.1787	.1787	.1787	.1787	.1787	.1787	.1787	.1787
45.000	.1917	.1873	.1839	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832
67.500	.1854	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832
90.000	.1820	.1791	.1791	.1791	.1791	.1791	.1791	.1791	.1791	.1791	.1791	.1791	.1791	.1791
112.500	.1843	.1781	.1781	.1781	.1781	.1781	.1781	.1781	.1781	.1781	.1781	.1781	.1781	.1781
135.000	.1962	.1835	.1724	.1643	.1563	.1478	.1399	.1319	.1239	.1158	.1078	.1000	.0920	.0840
157.500	.2130	.1778	.1563	.1499	.1439	.1379	.1319	.1259	.1199	.1139	.1079	.1019	.0959	.0899
180.000	.2022	.1478	.1263	.1203	.1143	.1083	.1023	.0963	.0903	.0843	.0783	.0723	.0663	.0603
202.500	.2022	.1478	.1263	.1203	.1143	.1083	.1023	.0963	.0903	.0843	.0783	.0723	.0663	.0603
225.000	.1778	.1400	.1185	.1125	.1065	.1005	.0945	.0885	.0825	.0765	.0705	.0645	.0585	.0525
247.500	.1422	.1078	.0863	.0803	.0743	.0683	.0623	.0563	.0503	.0443	.0383	.0323	.0263	.0203
270.000	.1688	.1381	.1166	.1106	.1046	.0986	.0926	.0866	.0806	.0746	.0686	.0626	.0566	.0506
292.500	.1688	.1381	.1166	.1106	.1046	.0986	.0926	.0866	.0806	.0746	.0686	.0626	.0566	.0506
315.000	.1688	.1381	.1166	.1106	.1046	.0986	.0926	.0866	.0806	.0746	.0686	.0626	.0566	.0506
337.500	.1688	.1381	.1166	.1106	.1046	.0986	.0926	.0866	.0806	.0746	.0686	.0626	.0566	.0506
350.000	.1688	.1381	.1166	.1106	.1046	.0986	.0926	.0866	.0806	.0746	.0686	.0626	.0566	.0506

MACH (7) = 2.680 ALPHA (5) = 2.000 Q = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9535
PHI	.000	.1688	.1781	.1832	.1839	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832	.1832
22.500	.1968	.1960	.1977	.1977	.1977	.1977	.1977	.1977	.1977	.1977	.1977	.1977	.1977	.1977
45.000	.1743	.1685	.1704	.1704	.1704	.1704	.1704	.1704	.1704	.1704	.1704	.1704	.1704	.1704
67.500	.1868	.1910	.1991	.1991	.1991	.1991	.1991	.1991	.1991	.1991	.1991	.1991	.1991	.1991
90.000	.2089	.2043	.2096	.2096	.2096	.2096	.2096	.2096	.2096	.2096	.2096	.2096	.2096	.2096
112.500	.2335	.2208	.2214	.2214	.2214	.2214	.2214	.2214	.2214	.2214	.2214	.2214	.2214	.2214
135.000	.2595	.2491	.2525	.2525	.2525	.2525	.2525	.2525	.2525	.2525	.2525	.2525	.2525	.2525
157.500	.2167	.1724	.1509	.1449	.1389	.1329	.1269	.1209	.1149	.1089	.1029	.0969	.0909	.0849
180.000	.1481	.1066	.0851	.0791	.0731	.0671	.0611	.0551	.0491	.0431	.0371	.0311	.0251	.0191
202.500	.1492	.1243	.1028	.0968	.0908	.0848	.0788	.0728	.0668	.0608	.0548	.0488	.0428	.0368
225.000	.1657	.1187	.0972	.0912	.0852	.0792	.0732	.0672	.0612	.0552	.0492	.0432	.0372	.0312
247.500	.1688	.1359	.1144	.1084	.1024	.0964	.0904	.0844	.0784	.0724	.0664	.0604	.0544	.0484

DATE 05 SEP 75

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

(R82501)

SRM BOOSTER

MSFC 567(1A32F) T9 S3/2 S3/2 03

SRM BOOSTER

MSFC 567(1A32F)

MACH (7) = 2.990 ALPHA (6) = 5.000 Q = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.0949	.0923	-.0641	-.0414	-.0585	-.0272	-.0156	.0085	-.0089	-.0396	.0193	.2083	.1635
22.500	.1227	.1111	.1026	-.0621	-.0476	-.0405	-.0364	-.0133	.0071	-.0082	-.0357	.0608	.3065	.2401
45.000	.1354	.1348	.1286	-.0606	-.0558	-.0368	-.0364	-.0178	.0034	-.0002	-.0503	.0632	.3079	.3180
67.500			.1547	-.0528	-.0565	-.0372	-.0383	-.0312	-.0148	-.0043	-.0551	.0688	.2476	.2394
90.000	.1771	.1820	.1793	-.0433	-.0509	-.0379	-.0450	-.0435	-.0297	-.0047	-.0677	.0973	.1812	.2226
112.500			.2069	-.0375	-.0442	-.0357	-.0342	-.0461	-.0364	-.0166	-.0734	.0953	.1910	.2349
135.000	.2364	.2371	.2424	-.0271	-.0334	-.0289	-.0271	-.0401	-.0267	-.0215	-.0927	.0845	.1988	.2364
157.500	.2849	.2770	.2711	-.0181	-.0122	-.0148	-.0248	-.0308	-.0125	-.0118	-.0652	.0401	.2088	.2424
180.000	.3229	.2901	.2769	-.0163	.0289	.0455	.0316	-.0181	9.9990	.0213	-.0722	-.0010	.2170	.2435
202.500	.3128	.2576	.2740	.0041	.0317	.0310	.0342	-.0070	.0280	.0123	-.0636	.0079	.1935	.2457
225.000	.2614	.2211	.3281	.0530	.0301	-.0368	.0349	.0038	.0258	.0108	-.0830	.0131	.1305	.1633
247.500	.1469	.1917	.3490	.3485	.0839	-.1002	-.0301	.0038	.0276	.0108	-.0875	.0142	.0601	.1394
270.000			.6901	.4109	.0508	-.1147	.0342	-.0103	.0187	.0168	-.0569	.0034	.0477	.1391
292.500			.2297	.1764	-.0241	-.1188	-.0275	.0011	.0161	.0190	-.0562	-.0084	.0325	.0720
315.000	.1020	.0886	.1522	-.0019	-.0481	-.1185	-.0395	.0066	.0155	.0096	-.0558	-.0073	.1436	.0034
337.500	.1104	.0787	.0962	-.0483	-.0603	-.0858	-.0386	9.9990	.0131	.0071	-.0536	-.0129	.1510	.1320
360.000	.1165	.0949	.0923	-.0641	-.0414	-.0585	-.0272	-.0156	.0085	-.0089	-.0396	.0193	.2083	.1635

MACH (7) = 2.990 ALPHA (7) = 8.000 Q = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.0841	.0662	.0561	-.0598	-.0430	-.0587	-.0475	-.0169	-.0173	-.0210	-.0359	.0367	.2341	.2147
22.500	.0899	.0724	.0656	-.0679	-.0530	-.0448	-.0418	-.0317	-.0261	-.0284	-.0316	.0649	.2528	.2875
45.000	.1029	.1033	.0973	-.0670	-.0621	-.0450	-.0532	-.0420	-.0420	-.0334	-.0405	.0951	.1760	.1842
67.500			.1274	-.0598	-.0650	-.0479	-.0520	-.0557	-.0385	-.0262	-.0434	.1002	.1341	.1352
90.000	.1669	.1662	.1666	-.0553	-.0576	-.0512	-.0579	-.0620	-.0397	-.0266	-.0516	.1069	.1401	.1528
112.500			.2163	-.0349	-.0431	-.0409	-.0498	-.0636	-.0521	-.0368	-.0681	.1014	.1536	.1693
135.000	.2733	.2763	.2826	-.0128	-.0203	-.0169	-.0292	-.0397	-.0374	-.0412	-.0762	.1035	.1811	.2151
157.500	.3528	.3431	.3401	.0069	.0117	.0203	.0117	-.0120	-.0087	-.0154	-.0613	.0558	.2457	.2654
180.000	.4098	.3740	.3688	.0173	.0655	.0871	.0050	.0143	9.9990	.0334	-.0680	.0013	.2684	.2964
202.500	.3934	.3393	.3651	.0490	.0897	.0793	-.0012	.0263	.0502	.0293	-.0591	.0046	.2725	.3203
225.000	.3195	.2871	.4356	.0946	.1569	.0039	.0069	.0330	.0431	.0311	-.0788	.0140	.2613	.2950
247.500			.4087	.4360	.1244	-.0818	.0099	.0237	.0326	.0192	-.0806	.0354	.0993	.1631
270.000	.1535	.2020	.7729	.4251	.0781	-.1046	-.0479	-.0240	-.0191	.0065	-.0323	.0431	.0957	.1737
292.500			.3151	.1106	-.0400	-.1094	-.0591	-.0221	-.0176	.0151	-.0374	.0319	.1039	.0509
315.000	.0564	.0500	.1100	-.0256	-.0819	-.1125	-.0413	-.0282	-.0159	.0078	-.0407	.0313	.2333	.0877
337.500	.0675	.0474	.0548	-.0610	-.0797	-.1136	-.0536	9.9990	-.0047	.0026	-.0445	.0366	.2528	.1919
360.000	.0841	.0662	.0561	-.0598	-.0430	-.0587	-.0475	-.0169	-.0173	-.0210	-.0359	.0367	.2341	.2147

NSFC 567(1A32F) TO S3/2 S3/2 03 SRM BOOSTER (R82501)

MACH (8) = 3.500 ALPHA (1) = -8.000 Q = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/S	.0425	.0722	.1013	.1198	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
P:1														
.000	.4324	.3914	.3718	.0398	.0626	.0927	.1238	.0365	.0342	.0365	-.0307	-.0067	.1489	.1262
22.500	.3836	.3697	.3639	.0346	.0278	.0292	.0722	.0089	.0035	.0035	-.0405	-.0080	.1238	.0971
45.000	.3011	.3018	.3055	.0355	.0068	.0095	.0277	-.0151	-.0276	-.0266	-.0689	-.0355	.0551	.0628
67.500	.1742	.1742	.1790	-.0158	-.0280	-.0266	-.0479	-.0564	-.0696	-.0638	-.0743	-.0554	-.0432	-.0134
90.000			.1421	-.0273	-.0374	-.0314	-.0469	-.0625	-.0709	-.0638	-.0730	-.0530	-.0355	-.0263
112.500		.1215	.1116	-.0385	-.0452	-.0290	-.0456	-.0642	-.0709	-.0652	-.0750	-.0557	-.0307	-.0293
135.000		.1100	.0903	-.0496	-.0435	-.0280	-.0459	-.0672	-.0719	-.0676	-.0679	-.0523	-.0169	-.0398
157.500		.0954	.0650	-.0598	-.0453	-.0469	-.0459	-.0696	9.9990	-.0682	-.0780	-.0510	-.0300	-.0442
180.000		.0903	.0504	-.0435	-.0510	-.0804	-.0777	-.0655	-.0476	-.0635	-.0594	-.0232	.0003	.0362
202.500		.0920	.0545	-.0795	-.0320	-.0564	-.0848	-.0726	-.0483	-.0422	-.0518	-.0043	.0085	.0454
225.000		.1512	.1428	.1221	-.0222	-.0868	-.0784	-.0567	-.0482	-.0330	-.0733	-.0412	-.0260	.0084
247.500		.3420	.3075	.3796	.1039	-.0862	.0629	-.0148	-.0222	-.0097	-.0716	-.0476	-.0405	.0839
292.500		.3268	.2764	.4090	.0941	.1401	.0223	.1708	.0941	.0545	.0873	-.0273	-.0432	.1051
315.000		.4186	.3519	.3553	.0534	.0973	.1071	.1575	9.9990	.0473	.0645	-.0442	-.0127	.1215
337.500		.4324	.3914	.3718	.0396	.0626	.0927	.1238	.0365	.0342	-.0307	-.0067	.1489	.1262

MACH (8) = 3.500 ALPHA (2) = -5.000 Q = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/S	.0433	.0722	.1013	.1198	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.3454	.3116	.2669	.0071	.0277	.0568	.0771	.0146	.0220	.0146	-.0401	-.0141	.1421	.1198
22.500	.3138	.3013	.2925	.0123	.0045	.0031	.0370	.0004	-.0032	-.0042	-.0401	-.0043	.1191	.0981
45.000	.2625	.2608	.2612	-.0132	-.0073	-.0033	.0125	-.0114	-.0249	-.0239	-.0648	-.0253	.0721	.0649
67.500	.1857	.1878	.1888	-.0033	-.0158	-.0127	-.0107	-.0253	-.0408	-.0418	-.0682	-.0432	.0288	.0367
90.000			.1654	-.0083	-.0229	-.0192	-.0256	-.0300	-.0496	-.0523	-.0689	-.0395	-.0056	.0447
112.500		.1404	.1390	-.0165	-.0290	-.0205	-.0249	-.0310	-.0530	-.0496	-.02	-.0344	-.0107	.0257
135.000		.1424	.1130	-.0283	-.0358	-.0192	-.0259	-.0445	-.0557	-.0473	.0552	-.0341	-.0036	.0325
157.500		.1377	.0809	-.0533	-.0253	-.0310	-.0469	-.0520	-.0591	-.0462	.0567	-.0341	.0152	.0359
180.000		.1350	.0809	-.0378	-.0429	-.0638	-.0638	-.0591	-.0344	-.0341	-.0517	-.0195	.0876	.0555
202.500		.1316	.0822	-.0182	-.0310	-.0821	-.0726	-.0574	-.0334	-.0083	-.0594	-.0050	.0573	.0738
225.000		.1577	.1370	.4425	.4300	.0944	-.0868	-.0777	-.0500	-.0266	-.0006	-.0648	-.0286	.0629
247.500		.3102	.3072	.2561	.1211	-.0862	.0203	-.0161	-.0249	-.0083	-.0652	-.0412	.0105	.0583
292.500		.2778	.2162	.0616	.1103	-.0209	.1160	.0379	.0366	.0579	-.0385	-.0307	.1144	-.0215
315.000		.3400	.2737	.2690	.0173	.0443	.0592	.1211	9.9990	.0369	-.0506	-.0134	.1194	.0477
337.500		.3454	.3116	.2669	.0071	.0277	.0568	.0771	.0146	.0220	-.0401	-.0141	.1421	.1198

MACH (8) = 3.500 ALPHA (3) = -2.000 Q = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500
 MSFC 567(1A32F) 19 S3/2 S3/2 03 SRM BOOSTER (R82S01)

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI	.000	.2678	.2344	.2142	-.0310	.0010	.0186	.0321	.0000	.0085	.0064	-.0483	-.0056	.1120
22.500	.2656	.2348	.2198	-.0148	-.0040	.0152	.0294	-.0036	.0054	.0044	.1908	.1864	.2202	.2209
45.000	.2493	.2358	.2287	-.0114	-.0165	.0151	.0169	-.0053	-.0104	.0046	-.0320	.1543	.1621	.1756
67.500	.2209	.2114	.2039	-.0239	-.0158	.0000	-.0036	-.0192	-.0100	-.0638	.0175	.1316	.1218	.1218
90.000	.1029	.1438	.2060	-.0127	-.0249	.0175	-.0121	-.0083	-.0226	-.0178	-.0679	.0134	.1174	.1424
112.500	.1859	.0141	.1859	-.0141	-.0256	.0185	-.0131	-.0094	-.0253	-.0310	-.0334	-.0256	-.0330	.0330
135.000	.0125	-.0718	.1834	-.0178	-.0293	.0195	-.0144	-.0138	-.0280	-.0354	-.0625	-.0009	.0768	.1448
157.500	.1708	.1658	.1695	-.0259	-.0354	.0199	-.0198	-.0286	-.0314	-.0364	.0697	-.0265	.0883	.1340
180.000	.1644	.1025	-.0040	-.0682	.1120	.0805	-.0604	-.0117	9.9990	.0761	.1303	.1597	.1103	.1677
202.500	.1827	.1506	.1296	-.0449	.0124	-.0239	-.0473	.0314	.1316	-.0111	-.0097	.1979	.1999	.2662
225.000	.1783	.1242	.1215	-.0378	-.0242	-.0432	-.0591	-.0422	-.0199	-.0111	-.0652	.0031	.0606	.0785
247.500	.0829	.0626	.1387	-.0072	-.0038	.0801	-.0707	.0531	-.0301	-.0011	-.0719	-.0087	.0250	.0788
270.000	.2023	.1560	.2023	.1560	.0173	-.0872	-.0696	-.0527	-.0293	.0115	-.0418	.0558	.0139	.0058
292.500	.4269	.4368	.4269	.4368	.0812	-.0875	-.0263	.0290	-.0297	.0006	-.0418	-.0582	-.0182	.0420
315.000	-.0043	-.0530	.2659	.2236	.0862	-.0872	.0362	.0227	-.0023	.0301	-.0564	-.0182	.0420	-.0320
337.500	.2273	.1587	.2311	.0376	.0846	-.0537	.0406	9.9990	.0142	.0365	-.0571	-.0208	.1292	-.0097
360.000	.2679	.2344	.2142	-.0310	.0010	.0166	.0321	.0000	.0085	.0064	-.0483	-.0056	.1414	.1120

MACH (8) = 3.500 ALPHA (4) = .000 Q = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI	.000	.1863	.1609	-.0284	-.0037	-.0104	.0208	-.0094	.0003	.0027	-.0449	-.0070	.1448	.1130
22.500	.2087	.1935	.1810	-.0158	-.0023	.0100	.0044	-.0033	-.0117	-.0012	-.0405	.0256	.1746	.1275
45.000	.1872	.1935	.1878	-.0155	-.0195	.0220	-.0083	-.0016	-.0144	-.0012	-.0547	.0229	.1937	.1808
67.500	.1895	.1808	.1895	-.0117	-.0199	.0244	-.0097	.0044	-.0117	-.0073	-.0598	.0101	.1991	.2417
90.000	.1878	.1908	.1878	-.0111	-.0192	.0149	-.0100	.0003	-.0083	-.0117	-.0608	.0182	.1518	.2207
112.500	.1900	.1849	.1873	-.0125	-.0206	.0067	-.0138	-.0118	-.0118	-.0128	-.0598	.0240	.1237	.1609
135.000	.2052	.1910	.1812	-.0199	-.0206	.0146	-.0311	-.0229	-.0142	-.0057	-.0557	.0030	.1132	.1426
160.000	.2258	.1900	.1812	-.0321	.0030	-.0415	-.0216	.0216	9.9990	.0064	-.0618	-.0094	.1011	.1281
202.500	.2207	.1606	.1501	-.0240	-.0114	-.0223	-.0510	-.0240	-.0091	-.0033	-.0513	-.0037	.0956	.1169
225.000	.2028	.1376	.1768	.0131	.0270	-.0679	-.0463	-.0388	-.0228	.0037	-.0608	-.0013	.0595	.0859
247.500	.1680	.1656	.2295	.1802	.0469	-.0794	-.0541	-.0398	-.0240	.0111	-.0666	-.0104	.0324	.0713
270.000	.3459	.4344	.3459	.4344	.0836	-.0814	-.0530	-.0375	-.0270	.0010	-.0588	-.0128	.0361	.0331
292.500	.2481	.2197	.2481	.2197	.0693	-.0811	-.0111	.0087	-.0003	.0229	-.0581	-.0125	.0716	-.0355
315.000	.1987	.1305	.1898	.0351	.0547	-.0713	.0074	.0074	-.0554	-.0202	-.0554	-.0202	.1629	.0128
337.500	.2231	.1555	.1812	-.0088	.0037	-.0125	.0267	9.9990	.0111	.0162	-.0584	-.0152	.1247	.0639
360.000	.2194	.1863	.1609	-.0284	-.0037	-.0104	.0208	-.0094	.0003	.0027	-.0449	-.0070	.1448	.1130

ORIGINAL PAGE IS OF POOR QUALITY

TABULATED SOURCE DATA, NSFC TMT 567 (1A32F)

DATE 05 SEP 76

MACH (8) = 3.500 ALPHA (8) = 2.000 Q = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500
NSFC 567(1A32F) TO 53/2 53/2 03 SRM BOOSTER (R0E501)

SECTION (1) SRM BOOSTER														
DEPENDENT VARIABLE CP														
X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1825	.1538	.1408	-.0327	-.0104	-.0202	.0020	.0198	.0094	-.0449	.0183	.1820	.1357
22.500	.1788	.1661	.1577	-.0242	-.0192	-.0270	-.0016	-.0002	.0017	.0081	-.0368	.0518	.2578	.1729
45.000	.1800	.1759	.1712	-.0232	-.0188	-.0097	.0054	-.0029	.0078	.0078	-.0527	.0552	.2950	.2815
67.500	.1805	.1949	.1928	-.0165	-.0253	-.0185	-.0090	.0037	.0031	.0078	-.0577	.0443	.2199	.2470
90.000	.1805	.1949	.1928	-.0134	-.0226	-.0182	-.0087	.0043	-.0009	.0017	-.0598	.0528	.1671	.2108
112.500	.2128	.2108	.2159	-.0117	-.0226	-.0178	-.0121	-.0097	-.0016	.0020	-.0560	.0382	.1658	.2054
135.000	.2432	.2331	.2243	-.0104	-.0226	-.0168	-.0178	-.0171	-.0046	.0047	-.0611	.0244	.1560	.1986
157.500	.2750	.2372	.2125	-.0195	-.0173	-.0234	-.0317	-.0192	.0056	.0054	-.0510	.0095	.1485	.2040
180.000	.2710	.2040	.1955	-.0131	.0024	.0054	-.0395	-.0100	.0115	.0088	-.0425	.0064	.1367	.1657
202.500	.2412	.1708	.2280	.0196	.0670	-.0523	-.0337	-.0077	.0037	.0159	-.0557	.0091	.1059	.1421
225.000	.1722	.1739	.2710	.1837	.0714	-.0736	-.0205	-.0104	.0000	.0031	-.0571	.0031	.0552	.0704
247.500	.1719	.1218	.2290	.1824	.0555	.0876	-.0770	-.0212	-.0158	.0023	-.0523	.0000	.0420	.0338
270.000	.1881	.1282	.1431	-.0195	-.0111	-.0378	-.0104	.0033	.0240	.0257	-.0557	-.0026	.1918	-.0097
292.500	.1825	.1538	.1408	-.0327	-.0104	-.0202	.0020	-.0067	.0158	.0094	-.0449	.0183	.1418	.0785
315.000	.1825	.1538	.1408	-.0327	-.0104	-.0202	.0020	-.0067	.0158	.0094	-.0449	.0183	.1418	.0785
337.500	.1825	.1538	.1408	-.0327	-.0104	-.0202	.0020	-.0067	.0158	.0094	-.0449	.0183	.1418	.0785
360.000	.1825	.1538	.1408	-.0327	-.0104	-.0202	.0020	-.0067	.0158	.0094	-.0449	.0183	.1418	.0785

MACH (8) = 3.500 ALPHA (8) = 5.000 Q = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOSTER														
DEPENDENT VARIABLE CP														
X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1353	.1089	.0947	-.0425	-.0209	-.0412	-.0232	-.0107	.0078	.0014	-.0253	.0328	.2013
22.500	.1377	.1252	.1103	-.0354	-.0280	-.0242	-.0178	-.0104	.0085	.0031	-.0151	.0572	.2412	.2121
45.000	.1475	.1445	.1340	-.0344	-.0361	-.0236	-.0185	-.0144	.0041	.0058	-.0324	.0616	.2169	.2554
67.500	.1827	.1867	.1600	-.0256	-.0337	-.0246	-.0212	-.0182	-.0080	.0010	-.0358	.0639	.1695	.1972
90.000	.2459	.2460	.1837	-.0226	-.0290	-.0246	-.0242	-.0276	-.0222	-.0023	-.0462	.0839	.1512	.1698
112.500	.3001	.2920	.2101	-.0222	-.0242	-.0219	-.0266	-.0303	-.0280	-.0111	-.0517	.0849	.1502	.1854
135.000	.3474	.3102	.2473	-.0040	-.0171	-.0141	-.0148	-.0270	-.0215	-.0141	-.0588	.0677	.1867	.2243
157.500	.3400	.2717	.2818	.0051	-.0043	-.0043	-.0100	-.0165	-.0090	-.0040	-.0462	.0200	.1911	.2314
180.000	.2813	.2219	.2845	.0027	.0365	.0592	-.0175	-.0087	.0090	.0261	-.0513	-.0009	.2067	.2344
202.500	.1729	.1560	.2571	.0068	.0318	.0494	-.0222	-.0040	.0247	.0196	-.0418	.0112	.1857	.2135
225.000	.1729	.1560	.2571	.0068	.0318	.0494	-.0222	-.0040	.0247	.0196	-.0418	.0112	.1857	.2135
247.500	.1729	.1560	.2571	.0068	.0318	.0494	-.0222	-.0040	.0247	.0196	-.0418	.0112	.1857	.2135
270.000	.1729	.1560	.2571	.0068	.0318	.0494	-.0222	-.0040	.0247	.0196	-.0418	.0112	.1857	.2135
292.500	.1729	.1560	.2571	.0068	.0318	.0494	-.0222	-.0040	.0247	.0196	-.0418	.0112	.1857	.2135
315.000	.1729	.1560	.2571	.0068	.0318	.0494	-.0222	-.0040	.0247	.0196	-.0418	.0112	.1857	.2135
337.500	.1729	.1560	.2571	.0068	.0318	.0494	-.0222	-.0040	.0247	.0196	-.0418	.0112	.1857	.2135
360.000	.1729	.1560	.2571	.0068	.0318	.0494	-.0222	-.0040	.0247	.0196	-.0418	.0112	.1857	.2135

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO S3/2 S3/2 03 SRM BOOSTER (R82S01)

DATE 05 SEP 75

MACH (8) = 3.500 ALPHA (7) = 8.000 Q = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1188	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.0944	.0680	.0524	-.0351	-.0259	-.0496	-.0401	-.0141	-.0107	-.0155	-.0253	.0176	.1627	.1593
22.500	.1035	.0849	.0731	-.0415	-.0337	-.0283	-.0218	-.0188	-.0100	-.0148	-.0165	.0464	.1482	.1925
45.000	.1167	.1120	.1066	-.0401	-.0429	-.0286	-.0341	-.0266	-.0215	-.0256	-.0246	.0778	.1299	.1597
67.500			.1367	-.0341	-.0425	-.0300	-.0341	-.0405	-.0327	-.0222	-.0314	.0792	.1133	.1319
90.000	.1682	.1685	.1705	-.0330	-.0371	-.0351	-.0435	-.0473	-.0368	-.0212	-.0422	.0842	.1204	.1451
112.500			.2219	-.0144	-.0256	-.0246	-.0276	-.0456	-.0442	-.0283	-.0510	.0802	.1336	.1543
135.000	.2781	.2842	.2893	.0071	-.0063	-.0050	-.0111	-.0286	-.0270	-.0273	-.0574	.0663	.1759	.2030
157.500	.3654	.3562	.3485	.0250	.0176	.0139	.0024	-.0053	-.0012	-.0033	-.0425	.0220	.2148	.2409
180.000	.4286	.3857	.3691	.0294	.0653	.0998	.0064	.0162	9.9990	.0393	-.0500	-.0002	.2412	.2659
202.500	.4219	.3444	.3451	.0355	.0795	.0964	.0037	.0274	.0474	.0362	-.0415	.0081	.2311	.2896
225.000	.3451	.2908	.3013	.0782	.1319	.0213	.0085	.0332	.0413	.0365	-.0584	.0118	.2250	.2091
247.500	.1739	.1519	.3326	.2438	.1478	-.0601	.0135	.0264	.0332	.0261	-.0571	.0281	.0924	.1401
270.000			.4794	.3962	.1032	-.0780	-.0327	-.0229	-.0094	-.0016	-.0056	.0426	.0856	.1506
292.500			.1593	.1566	-.0046	-.0807	-.0445	-.0239	-.0124	.0037	-.0256	.0335	.1029	.0075
315.000	.0820	.0497	.0578	-.0094	-.0483	-.0851	-.0256	-.0259	-.0124	-.0016	-.0300	.0352	.2030	.0991
337.500	.0893	.0494	.0568	-.0422	-.0550	-.0855	-.0445	9.9990	-.0026	-.0012	-.0324	.0423	.2026	.1566
360.000	.0944	.0680	.0524	-.0351	-.0259	-.0496	-.0401	-.0141	-.0107	-.0155	-.0253	.0176	.1627	.1593

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(RB2502) (24 APR 74)

MSFC 567(1A32F) T9 S3/2 S3/2 O3 SRM BOOSTER

PARAMETRIC DATA

REFERENCE DATA

SFEF = 8.1880 SO. IN. XOPP = 2.5480 IN.
 LREF = 5.3130 IN. YOPP = .9720 IN.
 BREF = 5.3130 IN. ZOPP = .0000 IN.
 SCALE = .0040 SCALE

ALPHA = .000 CONF10 = 90.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500

MACH (1) = .600 BETA (1) = -10.000 Q = 4.3481 PTA = 22.007 RL = 4.9943 PSA = 17.251
 SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1191	-.1605	-.6544	-.0034	.0723	.0353	.0556	.0970	.1305	-.4132	.1500	.2913	.1041
22.500	.2415	.1428	-.1364	-.6493	-.0157	.0282	.0344	.0520	.0899	.1137	-.4144	.2349	.3661	.1733
45.000	.2714	.1762	-.1111	-.6349	-.0177	.0307	.0369	.0448	.0757	.1039	-.4039	.2972	.4154	.2179
67.500	.2895	.1962	-.0914	-.5605	-.0202	.0237	.0396	.0484	.0695	.0953	-.3954	.3187	.4381	.2423
90.000	.2895	.1962	-.0950	-.5772	-.0369	.0255	.0281	.0378	.0510	.0581	-.3870	.2995	.4247	.2452
112.500	.2177	.1067	-.1249	-.6493	-.0642	.0131	.0017	.0061	.0141	.0413	-.3695	.2487	.3705	.2064
135.000	.1698	.0493	-.1805	-.8216	-.0994	-.0519	-.0316	-.0360	-.0192	-.0078	-.3523	.1650	.2835	.1412
157.500	.1419	.0154	-.2525	-.8268	-.1310	-.0586	-.0510	-.0395	-.0246	-.0096	-.3260	.0656	.1654	.0569
180.000	.1408	.0092	-.2760	-.7175	-.1029	-.0688	-.0284	-.0060	.0000	.0145	-.3188	.0266	.0305	-.0141
202.500	.1590	.0334	-.3126	-.7345	-.0833	-.0510	-.0123	-.0078	.0038	.0155	-.3411	-.0814	-.0087	-.0123
225.000	.2352	.2119	-.3182	-.0521	-.0643	-.1809	-.0038	.0083	.0127	.0110	-.2870	-.1072	-.0034	.0394
247.500	.2327	.1513	-.1181	-.7933	.1012	-.0509	.0109	.0216	.0064	.0153	-.1743	-.1134	.0108	.0761
292.500	.2200	.1208	-.1678	-.7298	.0457	-.0034	.0457	.0708	.1056	.1531	-.4722	-.1260	-.0222	.0708
315.000	.2249	.1191	-.1605	-.6544	-.0034	.0723	.0353	.0556	.0970	.1305	-.4132	.1500	.2913	.1041

MACH (1) = .600 BETA (2) = -8.000 Q = 4.3481 PTA = 22.007 RL = 4.9943 PSA = 17.251
 SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1178	-.1673	-.6669	-.0160	.0696	.0224	.0443	.0845	.1143	-.4111	.1470	.2776	.1015
22.500	.2320	.1339	-.1517	-.6731	-.0255	.0138	.0226	.0419	.0787	.0971	-.4040	.2362	.3497	.1694
45.000	.2494	.1530	-.1360	-.6712	-.0308	.0199	.0242	.0348	.0654	.0873	-.4006	.2800	.3951	.2052
67.500	.2525	.1562	-.1273	-.6245	-.0368	.0145	.0232	.0336	.0545	.0667	-.3866	.2976	.4100	.2221
90.000	.1992	.0903	-.1402	-.6650	-.0580	-.0011	.0084	.0163	.0303	.0373	-.3773	.2820	.4016	.2231
112.500	.1665	.0480	-.1543	-.7088	-.0711	-.0230	-.0028	.0032	.0129	.0391	-.3602	.2396	.3565	.1939
135.000	.1405	.0108	-.1995	-.7537	-.0976	-.0466	-.0255	-.0080	-.0080	-.0001	-.3383	.1781	.2923	.1483
157.500	.1375	.0010	-.2548	-.8238	-.1213	-.0564	-.0362	-.0248	-.0107	.0015	-.3189	.0921	.1897	.0842
180.000	.1560	.0250	-.2816	-.7549	-.1099	-.0669	-.0285	-.0141	.0019	.0117	-.3079	-.0053	.0779	.0332
202.500	.247.500	.1560	-.3188	-.7766	-.1030	-.0580	-.0159	-.0123	.0019	.0145	-.3330	-.0653	.0233	.0313
225.000	.247.500	.2058	-.3581	-.6928	-.1024	-.0899	-.0132	-.0017	.0072	.0143	-.3080	-.0974	.0136	.0700
247.500	.2363	.2058	-.3220	-.1.0672	-.0793	-.1908	-.0043	.0099	.0136	.0423	-.1672	-.0997	.0335	.1000
270.000	.2363	.2058	-.0716	-.1.1816	.0612	-.2396	-.0007	.0127	.0136	.0423	-.1672	-.0997	.0335	.1000

(R82502)

MSFC 967(11A32F) T9 S3/2 S3/2 03 SRM BOOSTER

MACH (1) = .600 BETA (4) = .000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
180.000	.1316	.0123	-.2873	-.8383	-.1141	-.0540	-.0142	-.0011	9.9990	.0168	-.2858	.1310	.2280	.1714
202.500	.1489	.0258	-.3050	-.8743	-.1227	-.0728	-.0190	-.0109	-.0002	.0167	-.2953	.0636	.1815	.1860
225.000	.1798	.0538	-.3411	-.9934	-.1287	-.1152	-.0297	-.0064	-.0001	.0295	-.3707	.0124	.1165	.1946
247.500			-.3038	-1.1235	-.0899	-.2078	-.0324	-.0099	.0044	.0619	-.2409	-.0118	.0968	.1966
270.000	.2797	.2366	-.0576	-1.1710	.0545	-.3474	-.0334	-.0029	.0060	.0895	-.1186	.0031	.1134	.1356
292.500			-.1212	-.8871	.0456	-.1482	-.0306	.0043	.0295	.0842	-.3061	-.0027	.0887	.0761
315.000	.2781	.1823	-.1810	-.8191	-.0297	-.0852	-.0278	-.0002	.0302	.0506	-.4718	.0501	.2019	-.0172
337.500	.2493	.1407	-.1782	-.7636	-.0586	-.0604	-.0245	9.9990	.0293	.0473	-.3604	.1249	.2457	.0485
360.000	.1952	.0867	-.2063	-.7790	-.0878	-.0521	-.0378	-.0091	.0168	.0312	-.3483	.1437	.2260	.0882

MACH (1) = .600 BETA (5) = 4.000 Q = 4.3481 PTA = 22.007 RL = 4.9943 PSA = 17.251

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1760	.0688	-.2304	-.8146	-.1339	-.0428	-.0785	-.0410	-.0097	-.0017	-.3465	.0997	.1709	.0578
22.500	.1290	.0231	-.2660	-.8320	-.1325	-.0854	-.0667	-.0346	-.0088	-.0062	-.3354	.1263	.1953	.0927
45.000	.0936	-.0062	-.2979	-.8403	-.1239	-.0793	-.0579	-.0338	-.0097	.0026	-.3310	.1477	.1940	.0916
67.500			-.3157	-.8037	-.1114	-.0606	-.0445	-.0258	-.0106	.0018	-.3238	.1518	.1893	.0733
90.000	.0758	-.0222	-.3198	-.7021	-.1122	-.0560	-.0364	-.0195	-.0070	.0036	-.3000	.1814	.2457	.1135
112.500			-.3150	-.6789	-.1103	-.0462	-.0302	-.0160	-.0053	.0124	-.2918	.1940	.2359	.1076
135.000	.0765	-.0284	-.3078	-.8632	-.1165	-.0515	-.0293	-.0213	-.0088	.0026	-.3050	.1964	.2544	.1357
157.500	.0919	-.0160	-.3041	-.8608	-.1373	-.0535	-.0324	-.0187	-.0106	.0009	-.3086	.2160	.3163	.1787
180.000	.1163	.0001	-.2956	-.8810	-.1347	-.0677	-.0230	-.0159	9.9990	.0064	-.2933	.2025	.3116	.2195
202.500	.1530	.0241	-.2929	-.9248	-.1401	-.0793	-.0212	-.0105	.0001	.0189	-.3219	.1559	.2959	.2727
225.000	.1949	.0711	-.3200	-.9884	-.1379	-.1217	-.0311	-.0150	.0002	.0307	-.3867	.0698	.2075	.2816
247.500			-.2759	-1.1044	-.0766	-.2098	-.0319	-.0114	.0095	.0563	-.2632	.0055	.0978	.2250
270.000	.3007	.2533	-.0454	-1.1834	.0529	-.3774	-.0499	-.0222	.0045	.0788	-.1243	.0019	.0763	.0449
292.500			-.1009	-.8473	.0315	-.1689	-.0588	-.0230	.0082	.0521	-.2482	.0073	.0904	.0278
315.000	.2891	.2033	-.1353	-.8276	-.0570	-.1089	-.0588	-.0284	.0100	.0217	-.4432	.0198	.1247	-.0464
337.500	.2586	.1455	-.1765	-.7542	-.1002	-.0975	-.0607	9.9990	.0060	.0038	-.3429	.0602	.1578	.0028
360.000	.1780	.0688	-.2304	-.8146	-.1339	-.0428	-.0785	-.0410	-.0087	-.0017	-.3465	.0997	.1709	.0578

(R66502)

MSFC 967(1A32F) TO S3/2 S3/2 O3 SRM BOOSTER

MACH (1) = .600 BETA (6) = 0.000 Q = 4.3481 PTA = 22.007 RL = 4.9943 PSA = 17.251

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1494	.0395	-.2509	-.0213	-.1774	-.0987	-.0985	-.0491	-.0115	-.0016	-.3501	.0983	.1447
22.500	.0772	-.0303	-.3194	-.0887	-.1804	-.1272	-.0913	-.0474	-.0151	-.0142	-.3415	.1014	.1301	.0198
45.000	.0359	-.0660	-.3407	-.0688	-.1504	-.0984	-.0689	-.0374	-.0115	-.0025	-.3470	.1112	.1326	.0163
67.500			-.3523	-.7863	-.1200	-.0671	-.0500	-.0348	-.0133	.0001	-.3487	.1333	.1783	.0380
90.000	.0234	-.0716	-.3523	-.7451	-.1110	-.0536	-.0348	-.0213	-.0052	.0037	-.3420	.1693	.1952	.0484
112.500			-.3514	-.8195	-.1128	-.0500	-.0339	-.0249	-.0124	.0037	-.3711	.1702	.1917	.0828
135.000	.0252	-.0769	-.3402	-.8518	-.1324	-.0625	-.0410	-.0311	-.0168	-.0060	-.3523	.2007	.2493	.0919
157.500	.0322	-.0528	-.3278	-.8503	-.1605	-.0734	-.0492	-.0393	-.0258	-.0150	-.3298	.2304	.3050	.1496
180.000	.0970	-.0160	-.3080	-.8955	-.1960	-.0870	-.0406	-.0257	9.9990	-.0002	-.3413	.2644	.3998	.2715
202.500	.1457	.0347	-.2859	-.9448	-.1584	-.0902	-.0273	-.0115	.0023	.0207	-.3537	.2388	.4390	.3644
225.000	.2194	.0983	-.2824	-.9760	-.1348	-.1226	-.0274	-.0134	.0005	.0337	-.4091	.1158	.3106	.3167
247.500			-.2488	-.1.0971	-.0695	-.2151	-.0353	-.0134	.0111	.0733	-.3301	.0033	.1203	.2110
270.000	.3297	.2781	-.0228	-.1.1840	.0994	-.4228	-.0693	-.0343	.0103	.0325	-.1835	-.0045	.0735	.0235
292.500			-.0735	-.8284	.0285	-.2149	-.0814	-.0316	.0197	.0773	-.3587	.0014	.1284	.0118
315.000	.3349	.2401	-.1291	-.8019	-.0650	-.1326	-.0852	-.0396	.0095	.0498	-.4201	.0199	.1578	-.0866
337.500	.2722	.1625	-.1613	-.7638	-.1291	-.1265	-.0899	9.9990	-.0063	.0232	-.3633	.0691	.1699	-.0195
360.000	.1454	.0395	-.2509	-.8213	-.1774	-.0987	-.0985	-.0491	-.0115	-.0016	-.3501	.0983	.1447	.0134

MACH (1) = .600 BETA (7) = 10.000 Q = 4.3481 PTA = 22.007 RL = 4.9943 PSA = 17.251

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1285	.0238	-.2644	-.8215	-.1944	-.1011	-.1110	-.0500	-.0132	.0002	-.3550	.1054	.1714
22.500	.0561	-.0474	-.3347	-.8715	-.2023	-.1492	-.0978	-.0447	-.0168	-.0231	-.3432	.1053	.1399	.0180
45.000	-.0043	-.0896	-.3644	-.8449	-.1668	-.1147	-.0716	-.0339	-.0132	-.0052	-.3437	.1143	.1339	.0081
67.500			-.3760	-.8016	-.1198	-.0714	-.0562	-.0374	-.0177	-.0016	-.3514	.1316	.1772	.0260
90.000	.0029	-.0858	-.3658	-.7237	-.1029	-.0571	-.0347	-.0159	-.0060	.0020	-.3573	.1574	.1735	.0243
112.500			-.3666	-.8179	-.1077	-.0520	-.0395	-.0259	-.0169	-.0016	-.3738	.1661	.1777	.0429
135.000	.0064	-.0897	-.3531	-.8296	-.1311	-.0672	-.0411	-.0313	-.0205	-.0088	-.3568	.1697	.2237	.0716
157.500	.0316	-.0661	-.3406	-.8493	-.1720	-.0867	-.0625	-.0455	-.0374	-.0253	-.3443	.2354	.3094	.1395
180.000	.0921	-.0177	-.3096	-.8794	-.1795	-.1004	-.0494	-.0327	9.9990	-.0045	-.3704	.3091	.4554	.2811
202.500	.1578	.0519	-.2651	-.9125	-.1603	-.0907	-.0238	-.0079	.0017	.0220	-.3738	.2965	.4917	.3822
225.000	.2307	.1188	-.2572	-.9328	-.1268	-.1180	-.0246	-.0141	-.0017	.0308	-.4346	.1336	.3033	.2958
247.500			-.2244	-.1.0642	-.0605	-.2191	-.0420	-.0254	.0008	.0648	-.3655	.0043	.1129	.1942
270.000	.3493	.2995	-.0096	-.1.1078	.0714	-.4207	-.0714	-.0334	.0123	.0952	-.2085	-.0508	.0783	.0149
292.500			-.0588	-.7915	.0297	-.2220	-.0878	-.0307	.0227	.0841	-.4178	.0252	.1436	-.0132
315.000	.3421	.2491	-.1167	-.7692	-.0711	-.1413	-.0992	-.0518	.0097	.0587	-.4079	.0291	.1654	-.1042
337.500	.2774	.1687	-.1518	-.7454	-.1403	-.1332	-.0926	9.9990	-.0016	.0318	-.3774	.0691	.1997	-.0325
360.000	.1285	.0238	-.2644	-.8215	-.1944	-.1011	-.1110	-.0500	-.0132	.0002	-.3550	.1054	.1714	.0224

TABLATED SOURCE DATA, MSFC TWT 567 (1A32F)

DATE 05 SEP 75

MACH (2) = .900 BETA (3) = -.000 Q = 7.3664 PTA = 22.004 RL = 6.5414 PSA = 13.022
MSFC 66711A32F TO 63/2 83/2 03 8PM BOOSTER (1062502)

SECTION (1) 8PM BOOSTER														
DEPENDENT VARIABLE CP														
X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI	.000	.3221	.2425	.0395	-.0513	-.0252	-.0582	.0374	.0887	.1667	-.4752	.1609	.2659	.1620
22.500	.3109	.2381	.0468	-1.0013	-.0488	-.0368	-.0545	.0308	.0902	.1409	-.4523	.1762	.2835	.2210
45.000	.3127	.2410	.0478	-1.0027	-.0803	-.0384	-.0452	.0217	.0766	.1264	-.4522	.2059	.3332	.2518
67.500	.2870	.2186	.0397	-.0651	-.1384	-.0269	-.0373	.0235	.0698	.1084	-.4347	.2201	.3531	.2667
90.000	.2870	.2186	.0352	-.09563	-.2459	-.0337	-.0358	.0148	.0535	.0884	-.4110	.2119	.3362	.2662
112.500	.2882	.2009	.0319	-.0976	-.3606	-.0353	-.0337	.0090	.0418	.0866	-.3922	.1876	.3176	.2539
135.000	.2743	.1931	.0250	-1.0043	-.4526	-.0431	-.0353	-.020	.0338	.0625	-.3860	.1411	.2720	.2306
157.500	.2756	.1831	-.0703	-1.0232	-.4497	-.0535	-.0353	-.0003	.0329	.0558	-.3556	.0804	.1978	.1515
180.000	.2575	.1577	-.0366	-1.0329	-.5405	-.0823	-.0361	.0025	.0329	.0500	-.3502	.0115	.1158	.1491
202.500	.2756	.1752	-.0388	-1.0560	-.5013	-.1100	-.0273	.0045	.0349	.0584	-.3541	-.0351	.0554	.1152
225.000	.3027	.2178	-.0303	-1.0755	-.5045	-.1681	-.0299	.0072	.0402	.0811	-.3972	-.0592	.0341	.1170
247.500	.3693	.4086	.0931	-1.0037	-.5466	-.2723	-.0424	.0077	.0522	.1114	-.2355	-.0803	.0377	.1331
270.000	.3788	.3239	.3543	-.0426	-.4467	-.2224	-.0462	.0102	.0703	.1493	-.1952	-.0723	.0401	.1191
292.500	.3530	.2726	.2256	-.0921	-.2918	-.1369	-.0414	.0309	.0991	.1967	-.1700	-.0656	.0199	.0945
315.000	.3221	.2425	.0857	-.0618	-.1074	-.1027	-.0420	.0364	.1118	.1933	-.5303	.0308	.3391	.0758
337.500	.3221	.2425	.0525	-.0927	-.0315	-.0843	-.0534	.0374	.0987	.1657	-.4495	.1285	.2688	.6519
360.000	.3221	.2425	.0395	-.0913	-.0221	-.0252	-.0582	.0374	.0987	.1657	-.4752	.1609	.2659	.1620

SECTION (1) 8PM BOOSTER														
DEPENDENT VARIABLE CP														
X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI	.000	.3108	.2288	.0312	-1.0080	-.0827	-.1137	-.0958	.0049	.0843	-.4220	.1144	.2145	.1208
22.500	.2863	.1994	.0138	-1.0268	-.1502	-.1072	-.0873	-.0034	.0405	.0589	-.4081	.1160	.2029	.1520
45.000	.2592	.1857	-.0056	-1.0390	-.2051	-.0780	-.0748	-.0371	.0343	.0569	-.4035	.1283	.2218	.1823
67.500	.2418	.1588	-.0201	-1.0411	-.2587	-.0580	-.0575	-.0023	.0317	.0632	-.3807	.1388	.2260	.1851
90.000	.2418	.1588	-.0234	-1.0441	-.3278	-.0517	-.0508	-.0044	.0265	.0564	-.3524	.1447	.2264	.1871
112.500	.2449	.1537	-.0234	-1.0392	-.4065	-.0375	-.0391	-.0014	.0258	.0641	-.3379	.1541	.2517	.2108
135.000	.2440	.1436	-.0207	-1.0423	-.4846	-.0380	-.0307	-.0240	.0237	.0531	-.3302	.1541	.2554	.2244
157.500	.2597	.1593	-.0312	-1.0482	-.5651	-.0443	-.0265	.0028	.0243	.0489	-.3292	.1267	.2557	.2463
180.000	.2661	.1661	-.0339	-1.0442	-.6283	-.0633	-.0213	.0070	.0305	.0579	-.3194	.0514	.1620	.2112
202.500	.3144	.2338	-.0250	-1.0533	-.5006	-.1350	-.0197	.0079	.0305	.0545	-.3375	.0171	.1091	.1832
225.000	.4087	.4186	-.0192	-1.0568	-.5157	-.2083	-.0270	.0102	.0349	.0790	-.4418	-.0312	.0528	.1669
247.500	.4014	.3405	.1028	-1.0017	-.5690	-.0501	.0024	.0024	.0413	.1060	-.2511	-.0501	.0422	.0493
270.000	.3693	.2871	.3484	-.0469	-.4463	-.2877	-.0842	-.0087	.0526	.1350	-.1605	-.0501	.0444	.0944
292.500	.3530	.2726	.2341	-.0871	-.4158	-.1604	-.0758	.0376	.0691	.1432	-.4023	-.0459	.0444	.0944
315.000	.3221	.2425	.0963	-.0738	-.1259	-.1357	-.0318	.0706	.1315	.1495	-.4950	.0147	.2126	.1412
337.500	.3221	.2425	.0535	-.09051	-.0086	-.1230	-.0782	.0374	.0588	.1147	-.4176	.1623	.2574	.1617
360.000	.3221	.2425	.0312	-1.0080	-.0827	-.1137	-.0958	-.0049	.0444	.0843	-.4220	.1144	.2145	.1208

ORIGINAL PAGE IS OF POOR QUALITY

(RB2502)

MSFC 587(1A32F) TO S3/2 S3/2 03 SRM BOOSTER

MACH (2) • .900 BETA (5) • 4.000 C • 7.3684 PTA • 22.004 PL • 6.5414 PSA • 13.222

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/LS	.0433	.0722	.1013	.1150	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9222	.9555
(PH)														
.000	.3228	.2374	.0405	-.9714	-.2732	-.1147	-.241	-.0181	.0379	.0597	-.4022	.0740	.1424	.2574
22.500	.2734	.1935	.0089	-1.0166	-.3487	-.1121	-.0156	.0310	.0461	-.3877	.0943	.0943	.1457	.2932
45.000	.2333	.1564	-.0233	-1.0328	-.4392	-.1434	-.0914	-.0156	.0275	.0519	-.3875	.0953	.1529	.3110
67.500			-.0577	-1.0749	-.3360	-.0815	-.0619	-.0097	.0255	.0498	-.3850	.1129	.1663	.3344
90.000	.1958	.1130	-.0651	-1.0724	-.3483	-.0398	-.0457	-.0024	.0276	.0503	-.3507	.1370	.2215	.5174
112.500			-.0651	-1.0757	-.3507	-.0302	-.0232	-.0033	.0225	.0452	-.3525	.1642	.2583	.7244
135.000	.1978	.1064	-.0619	-1.0794	-.4247	-.0250	-.0054	.0220	.0425	-.3496	.1652	.2567	.7591	.9533
157.500	.2106	.1164	-.0640	-1.0703	-.5329	-.0344	-.0291	.0205	.0391	-.3395	.1742	.2619	.8119	.9533
180.000	.2529	.1542	-.0390	-1.0426	-.7033	-.0858	-.0101	.0091	.0999	-.3462	.1355	.2167	.9266	.9533
202.500	.2934	.1948	-.0247	-1.0499	-.5845	-.1589	-.0021	.0130	.0324	-.0517	-.3655	.1022	.2444	.9533
225.000	.3358	.2474	-.0012	-1.0493	-.5320	-.2535	-.0069	.0097	.0343	-.0773	-.4223	.0724	.1340	.9533
247.500			.1048	-.9884	-.6743	-.3775	-.0195	.0566	.0437	-.1095	-.4382	-.0433	.2345	.9533
270.000	.4390	.4359	.3562	-.8413	-.4320	-.3927	-.0577	-.0143	.0433	-.1251	-.1543	-.0532	.0292	.9533
292.500			.2676	-.6576	-.1851	-.2768	-.0433	.0038	.0590	-.1120	-.3128	-.0543	.0390	.9533
315.000	.4446	.3875	.1428	-.9345	-.0472	-.2311	-.1085	-.0153	.0559	.0878	-.4470	-.0294	.1563	.9533
337.500	.4070	.3256	.1046	-.9445	-.0845	-.2238	-.1068	.0451	.0738	-.0738	-.3970	-.0371	.0000	.9533
360.000	.3226	.2374	.0405	-.9714	-.2732	-.1147	-.0181	.0379	.0597	-.4022	.0740	.0943	.1424	.9533

MACH (2) • .900 BETA (6) • 8.000 C • 7.3684 PTA • 22.004 PL • 6.5414 PSA • 13.222

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/LS	.0433	.0722	.1013	.1150	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9222	.9555
(PH)														
.000	.3057	.2182	.0176	-.9807	-.2290	-.2049	-.1175	-.0169	.0343	.0506	-.3394	.0943	.1739	.3302
22.500	.2294	.1408	-.0463	-1.0474	-.3872	-.2199	-.1014	-.0138	.0312	.0323	-.3360	.0929	.1584	.3302
45.000	.1745	.0967	-.0865	-1.0769	-.4177	-.1550	-.0828	-.0127	.0264	.0405	-.3341	.0908	.1638	.3302
67.500			-.1085	-1.0841	-.4033	-.0818	-.0619	-.0157	.0193	.0429	-.3320	.0925	.1644	.3302
90.000	.1516	.0676	-.1044	-1.0826	-.3910	-.0420	-.0004	.0004	.0293	.0440	-.3322	.0935	.1690	.3302
112.500			-.0957	-1.0776	-.3968	-.0205	-.0321	.0020	.0240	.0471	-.4012	.1207	.2053	.3302
135.000	.1549	.0835	-.1024	-1.0802	-.5506	-.0326	-.0368	-.0100	.0162	.0335	-.3303	.0929	.1742	.3302
157.500	.1799	.0865	-.0871	-1.0711	-.7174	-.0483	-.0362	-.0110	.0094	.0241	-.3374	.0925	.1742	.3302
180.000	.2338	.1407	-.0308	-1.0406	-.7138	-.1056	-.0103	.0104	.0999	.0471	-.3338	.0925	.1742	.3302
202.500	.2861	.2098	-.0332	-1.0273	-.6299	-.1797	.0030	.0187	.0349	.0578	-.4073	.1301	.2053	.3302
225.000	.3422	.2611	.0168	-1.0374	-.4895	-.3012	-.0103	.0000	.0223	.0591	-.4073	.1301	.2053	.3302
247.500			.1058	-.9908	-.6329	-.5558	-.0338	-.0056	.0331	.1125	-.4025	.1301	.2053	.3302
270.000	.4302	.4418	.3500	-.8431	-.2594	-.5200	-.0136	-.0475	.0311	.1407	-.4025	.1301	.2053	.3302
292.500			.2805	-.8400	-.0611	-.3767	-.1209	.0218	.0535	.1254	-.4025	.1301	.2053	.3302
315.000	.4749	.4205	.1754	-.8998	.0011	-.2972	-.1395	-.0260	.0524	.1100	-.4025	.1301	.2053	.3302
337.500	.4231	.3458	.1297	-.9181	-.0923	-.2927	-.1243	.0451	.0471	.0832	-.3937	.1000	.2053	.3302
360.000	.3057	.2182	.0176	-.9807	-.2290	-.2049	-.1175	-.0169	.0343	.0506	-.3394	.0943	.1424	.9533

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER (R82502)

MACH (2) = .900 BETA (7) = 10.000 Q = 7.366% PTA = 22.00% RL = 6.5414 PSA = 13.022

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.2930	.2062	.0031	-.9842	-.2529	-.2514	-.1167	-.0046	.0415	.0594	-.4439	.0959	.2157	.0279
22.500	.2058	.1100	-.0730	-1.0631	-.3873	-.2825	-.0983	-.0025	.0342	.0348	-.4376	.0999	.1654	.0462
45.000	.1480	.0672	-.1170	-1.0967	-.3818	-.2310	-.0850	-.0078	.0315	.0435	-.4246	.0954	.1327	.0290
67.500			-.1239	-1.0859	-.4017	-.0966	-.0693	-.0152	.0246	.0530	-.3988	.1023	.1397	.0301
90.000	.1305	.0469	-.1261	-1.0725	-.4076	-.0640	-.0451	.0053	.0300	.0432	-.3936	.1417	.1838	.0632
112.500			-.1192	-1.0582	-.3889	-.0309	-.0388	.0021	.0232	.0437	-.4051	.1954	.1954	.0933
135.000	.1327	.0422	-.1245	-1.0430	-.4370	-.0450	-.0413	-.0066	.0185	.0327	-.3956	.1834	.2519	.1439
157.500	.1612	.0690	-.1056	-1.0626	-.4725	-.0635	-.0461	-.0125	.0064	.0190	-.3872	.2182	.3412	.2405
180.000	.2145	.1185	-.0565	-1.0747	-.5415	-.1287	-.0241	.0065	9.9990	.0347	-.3955	.2284	.4300	.3759
202.500	.2716	.1931	-.0225	-1.0613	-.4433	-.1783	-.0108	.0167	.0236	.0410	-.4146	.1546	.4134	.3879
225.000	.3389	.2529	.0040	-1.0536	-.4448	-.2777	-.0304	-.0097	.0083	.0534	-.4770	-.0114	.2054	.2834
247.500	.4576	.4401	.3377	-.8694	-.1976	-.5335	-.1732	-.0458	.0310	.1276	-.2520	-.0458	.0367	-.0432
292.500	.4870	.4312	.2788	-.8529	-.0140	-.3748	-.1695	-.0156	.0554	.1217	-.4844	-.0252	.0957	-.0331
315.000	.4338	.3574	.1327	-.9044	-.0086	-.2902	-.1717	-.0240	.0540	.1103	-.4428	.0054	.1771	-.1657
337.500	.2930	.2062	.0031	-.9842	-.2529	-.2514	-.1167	-.0046	.0415	.0594	-.4439	.0959	.2157	.0279

MACH (3) = 1.050 BETA (1) = -10.000 Q = 8.4447 PTA = 22.00% RL = 6.8571 PSA = 10.975

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.4341	.3703	.2146	-.6850	-.0043	.1765	.0346	-.1297	.2160	.3818	-.4398	.3009	.4667	.2958
22.500	.4457	.3835	.2371	-.6789	-.0986	.1427	.0496	-.1096	.2039	.3541	-.4362	.3563	.5389	.4064
45.000	.4789	.4186	.2575	-.6573	-.2942	.1535	.0679	-.0839	.1903	.3321	-.4647	.4184	.6042	.4428
67.500	.5088	.4577	.2873	-.6263	-.2711	.1483	.0766	-.0508	.1851	.2983	-.4415	.4248	.5997	.4552
90.000			.2985	-.6201	-.2740	.1369	.0596	-.0512	.1613	.2511	-.4231	.3939	.5689	.4501
112.500	.4508	.3809	.2744	-.6372	-.3129	.0918	.0282	-.0663	.1235	.2243	-.4104	.3223	.4984	.4000
135.000	.4117	.3413	.2364	-.6660	-.3779	.0518	-.0056	-.0981	.0965	.1729	-.3937	.2139	.3755	.3097
157.500	.3923	.3147	.1949	-.6963	-.4354	.0339	-.0249	-.0884	.0896	.1770	-.3670	.0952	.2199	.1951
180.000	.3919	.3200	.1541	-.7052	-.4923	.0208	-.0025	-.0519	9.9990	.2171	-.3288	.0171	.0477	.0926
202.500	.4144	.3644	.1711	-.7246	-.5583	.0680	.0267	-.0084	.1303	.2228	-.2402	-.0977	.0327	.1322
225.000	.4810	.5282	.2841	-.6618	-.5582	-.1262	.0181	.0016	.1419	.2249	-.1417	-.1275	.0648	.1629
247.500			.3691	-.5944	-.2332	-.0094	.0038	-.0208	.1454	.2008	-.1336	-.1056	.0567	.1893
292.500	.4542	.4249	.2348	-.6855	-.0844	.0891	.0204	-.0469	.2389	.3925	-.5032	-.0350	-.0029	.1450
315.000	.4346	.3774	.2089	-.6625	-.0326	.1279	.0213	9.9990	.2359	.3971	-.3737	.1976	.4032	.1669
337.500	.4341	.3703	.2146	-.6850	-.0043	.1765	.0346	-.1297	.2160	.3818	-.4398	.3009	.4667	.2958

(R82502)

SRM BOOSTER

MACH (3) = 1.050 BETA (2) = -8.000 Q = 8.4447 PTA = 22.007 RL = 6.6571 PSA = 10.975

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI														
.000	.4403	.3768	.2191	-.6847	-.0584	.2909	.0090	-.1873	.2003	.3807	-.4418	.2858	.4584	.2989
22.500	.4485	.3868	-.2988	-.6785	-.2035	.1908	.0284	-.1441	.1926	.3381	-.4234	.3357	.4888	.3857
45.000	.4718	.4147	.2593	-.6281	-.3162	.1322	.0491	-.1241	.1728	.3148	-.4445	.3770	.5606	.4289
67.500	.4883	.4379	.2871	-.6418	-.3101	.1185	.0463	-.0828	.1590	.2788	-.4263	.3827	.5571	.4333
90.000			.2837	-.6288	-.3063	.1157	.0400	-.0728	.1458	.2447	-.4100	.3508	.5201	.4253
112.500			.2604	-.6483	-.3417	.0800	.0162	-.0791	.1149	.2237	-.3922	.2928	.4629	.3917
135.000	.4488	.3808	.2381	-.6380	-.3918	.0559	-.0049	-.0842	.0993	.1887	-.3812	.2009	.3583	.3229
157.500	.4174	.3453	.2035	-.6884	-.4324	.0378	-.0195	-.0682	.0824	.1865	-.3623	.1024	.2183	.2321
180.000	.4011	.3285	.1720	-.6953	-.4845	.0307	-.0071	-.0483	.0990	.2040	-.3305	.0266	.0668	.1412
202.500	.4053	.3294	.1682	-.7081	-.5265	-.0167	.0092	-.0368	.0791	.2024	-.3889	-.0235	.0156	.0901
225.000	.4293	.3759	.1800	-.7188	-.5752	-.0544	.0078	-.0254	.0937	.2147	-.4418	-.1137	.0148	.1310
247.500	.4991	.5412	.2907	-.8507	-.6503	-.1557	-.0028	-.0209	.1065	.2249	-.4338	-.1383	.0431	.1678
270.000			.3823	-.8333	-.2390	-.0382	-.0195	-.0721	.1857	.3777	-.5448	-.0652	-.0190	.1145
292.500	.4747	.4448	.2513	-.6895	-.1177	.0540	-.0026	-.1063	.2011	.3897	-.4027	.1104	.2531	.0217
315.000	.4536	.3983	.2255	-.6701	-.0547	.0915	-.0053	.9.9990	.1994	.3782	-.3744	.2079	.3754	.1681
337.500	.4403	.3768	.2151	-.6847	-.0584	.2909	.0090	-.1573	.2003	.3607	-.4418	.2858	.4584	.2989

MACH (3) = 1.050 BETA (3) = -4.000 Q = 8.4447 PTA = 22.007 RL = 6.6571 PSA = 10.975

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI														
.000	.4747	.4112	.2435	-.6505	-.1835	.0914	-.0355	-.1187	.1654	.3162	-.4435	.2610	.4052	.2842
22.500	.4635	.4055	.2503	-.6516	-.2812	.0488	-.0182	-.1150	.1562	.2918	-.4254	.2948	.4495	.3779
45.000	.4661	.4059	.2533	-.6468	-.3259	.0620	-.0031	-.1118	.1415	.2684	-.4305	.3060	.4530	.3768
67.500			.2534	-.6383	-.3451	.0724	.0059	-.0930	.1276	.2512	-.4149	.3023	.4594	.3655
90.000	.4555	.3958	.2513	-.6441	-.3581	.0672	.0005	-.0812	.1074	.2239	-.3974	.2828	.4194	.3829
112.500			.2441	-.6516	-.3769	.0576	-.0035	-.0683	.0905	.2194	-.3816	.2453	.3804	.3590
135.000	.4409	.3760	.2330	-.6578	-.3969	.0448	-.0090	-.0611	.0832	.1965	-.3629	.1937	.3215	.3482
157.500	.4327	.3646	.2138	-.6701	-.4252	.0279	-.0140	-.0419	.0791	.1914	-.3738	.1334	.2422	.3052
180.000	.4138	.3470	.1960	-.6866	-.4583	-.0108	-.0190	-.0341	.9.9990	.1854	-.3502	.0778	.1623	.2537
202.500	.4251	.3624	.1877	-.6995	-.4657	-.0816	-.0185	-.0308	.0752	.1845	-.3493	.0292	.0962	.1927
225.000	.4511	.3980	.1970	-.7116	-.5559	-.1482	-.0213	-.0290	.0818	.1938	-.3044	-.0354	.0514	.1735
247.500			.3020	-.6469	-.5843	-.2382	.0258	-.0278	.0976	.2174	-.1811	-.0615	.0697	.1933
270.000	.5243	.5618	.5234	-.5094	-.2731	-.2169	-.0551	-.0418	.1267	.2524	-.1616	-.0432	.0797	.1885
292.500			.4079	-.5638	-.1782	-.0875	-.0482	-.0765	.1638	.3377	-.5984	-.0199	.0509	.1511
315.000	.5083	.4788	.2791	-.6523	-.2011	-.0254	-.0551	-.1100	.1739	.3413	-.4635	.1054	.3302	-.0098
337.500	.4848	.4313	.2514	-.6571	-.2282	.0147	-.0633	.9.9990	.1769	.3327	-.4080	.2283	.3605	.1524
360.000	.4747	.4112	.2435	-.6505	-.1835	.0914	-.0355	-.1187	.1654	.3162	-.4435	.2610	.4052	.2842

TABLATED SOURCE DATA. MSFC TWT 567 (1A32F.

DATE 05 SEP 75

MACH (3) = 1.050 BETA (4) = .000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

(R82502)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER

SECTION (1) SRM BOOSTER

X/L5	PHI	0.000	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.4774	.4100	.2455	-.6529	-.1975	-.0449	-.0678	-.1315	.2280	-.4096	.2087	.3181	.2096
22.500	.4516	.3653	.2317	-.6638	-.2743	-.0562	-.0617	-.1367	.2116	-.3837	.2106	.3155	.2834
45.000	.4400	.3755	.2175	-.6719	-.3513	-.0247	-.0545	-.1337	.2088	-.3792	.2286	.3370	.3132
67.500			.2065	-.6699	-.3970	.0041	-.0439	-.1099	.2042	-.3663	.2324	.3358	.3193
90.000	.4191	.3514	.2017	-.6744	-.4021	.0141	-.0343	-.0878	.1981	-.3533	.2255	.3195	.3140
112.500			.2028	-.6759	-.4240	.0215	-.0201	-.0645	.2037	-.3079	.2162	.3054	.3237
135.000	.4212	.3479	.2035	-.6783	-.4276	.0110	-.0105	-.0504	.1911	-.2973	.2027	.3015	.3491
157.500	.4267	.3548	.2021	-.6773	-.4345	-.0100	-.0004	-.0279	.1861	-.3087	.1771	.2855	.3616
180.000	.4229	.3538	.2036	-.6811	-.4477	-.0526	-.0055	-.0224	.1936	-.2836	.1293	.2241	.3140
202.500	.4380	.3740	.2055	-.6897	-.4755	-.1336	-.0127	-.0223	.1941	-.3033	.1031	.1683	.2749
225.000	.4664		.2172	-.6966	-.4712	-.2088	-.0209	-.0182	.2080	-.3702	.0476	.1208	.2293
247.500	.5387	.5712	.3244	-.6327	-.5028	-.3362	-.0242	-.0279	.2356	-.2201	-.0246	.0801	.2129
292.500			.5273	-.5075	-.3222	-.2929	-.0379	-.0667	.2559	-.1052	-.0301	.0898	.1544
315.000	.5293	.4956	.4107	-.5604	-.2167	-.1704	-.0558	-.0746	.2599	-.3162	-.0169	.0737	.1304
337.500	.5053	.4521	.3000	-.6316	-.1653	-.1260	-.0639	-.0953	.2458	-.3755	.1705	.3326	.1191
360.000	.4774	.4100	.2455	-.6529	-.1975	-.0449	-.0678	-.1315	.2280	-.4096	.2087	.3181	.2096

MACH (3) = 1.050 BETA (5) = 4.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (1) SRM BOOSTER

X/L5	PHI	0.000	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.4593	.4030	.2414	-.6421	-.1932	.0120	-.1220	-.1275	.1970	-.3900	.1265	.2076	.1073
22.500	.4210	.3643	.2112	-.6689	-.2530	-.1378	-.1246	-.1378	.1171	-.1797	.3601	.1487	.1572
45.000	.3940	.3357	.1874	-.6855	-.3525	-.1048	-.1048	-.1345	.1222	-.1892	.1609	.2248	.1819
67.500			.1704	-.6907	-.4228	-.0460	-.0798	-.1228	.1202	.1901	.3671	.1828	.1970
90.000	.3703	.3083	.1633	-.6922	-.4509	-.0226	-.0524	-.1013	.1171	.1911	.3695	.1984	.2195
112.500			.1670	-.6898	-.4552	-.0131	-.0273	-.0776	.1089	.1967	.3520	.2198	.2710
135.000	.3791	.3160	.1770	-.6893	-.4497	-.0277	-.0126	-.0643	.0970	.1816	.3552	.2134	.2860
157.500	.3816	.3250	.1810	-.6864	-.4457	-.0574	-.0030	-.0441	.0933	.1814	.3420	.2212	.3630
180.000	.3947	.3490	.2103	-.6729	-.4402	-.1249	.0064	-.0245	.0999	.1789	.3567	.1928	.3829
202.500	.4139	.3787	.2209	-.6705	-.4210	-.2207	.0005	-.0199	.0772	.1857	.3710	.1701	.2896
225.000	.4436	.4217	.2330	-.6770	-.3466	-.2964	-.0127	-.0223	.0841	.2029	.4165	.0777	.3281
247.500			.3139	-.6338	-.4426	-.4499	-.0318	-.0419	.0925	.2329	.4194	-.0309	.0553
270.000	.5145	.5753	.5300	-.4987	-.0508	-.4406	-.0598	-.1224	.0943	.2465	.1451	-.0514	.0435
292.500			.4512	-.5172	.0681	-.2819	-.1204	-.0445	.1184	.2286	-.2708	-.0447	.0503
315.000	.5389	.5330	.3419	-.5885	.1330	-.2293	-.1086	-.1086	.1207	.2112	.4249	-.0117	.1244
337.500	.5182	.4827	.3087	-.6049	.1055	-.1953	-.1154	.5990	.1133	.2023	-.3750	.0714	.1888
360.000	.4593	.4030	.2414	-.6421	-.1932	.0120	-.1220	-.1275	.1970	-.3900	.1265	.2076	.1073

TABULATED SOURCE DATA, MSFC THT 567 (1A32F)

DATE 05 SEP 75

(R62502)

MSFC 567(1A32F) T9 53/2 53/2 03 SRM BOOSTER

MACH (3) = 1.050 BETA (6) = 8.000 Q = 8.4447 PTA = 22.007 RL = 6.6571 PSA = 10.975

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI	.000	.3822	.8510	-.6140	-.0309	-.1159	-.2024	-.0711	.1282	.1939	-.3944	.1210	.2263	.0908
22.500	.3732	.3339	.1907	-.6770	-.1480	-.2454	-.2074	-.0153	.1281	.1757	-.3816	.1446	.2148	.1271
45.000	.3349	.2952	.1508	-.7035	-.2539	-.1826	-.1689	-.0789	.1316	.1873	-.3834	.1512	.1978	.1179
67.500			.1269	-.7116	-.3936	-.0871	-.1255	-.1003	.1312	.1901	-.3927	.1648	.2119	.1245
90.000	.3198	.2863	.1273	-.7070	-.4622	-.0478	-.0780	-.0849	.1341	.1908	-.3877	.2070	.2659	.1700
112.500			.1336	-.7044	-.4822	-.0392	-.0446	-.0789	.1199	.1839	-.4131	.2179	.2759	.2160
135.000	.3282	.2752	.1445	-.7065	-.4825	-.0625	-.0300	-.0803	.1116	.1769	-.4010	.2444	.3436	.2782
157.500	.3451	.2967	.1597	-.6897	-.4546	-.1081	-.0159	-.0593	.1040	.1725	-.3904	.2677	.3948	.3368
180.000	.3564	.3274	.1884	-.6852	-.4327	-.2087	-.0030	-.0259	.09590	.1704	-.4221	.2431	.4046	.3903
202.500	.3770	.3628	.2193	-.6822	-.2586	-.3156	-.0079	-.0207	.1001	.1627	-.4148	.1624	.3366	.3978
225.000	.4005	.4038	.2314	-.6868	-.2203	-.3918	-.0277	-.0337	.0894	.1785	-.4526	.0422	.1840	.3212
247.500	.4584	.5433	.3072	-.6436	-.2934	-.5250	-.0549	-.0475	.0995	.2181	-.4739	-.0360	.0470	.2503
270.000			.5141	-.5123	.0323	-.3638	-.1606	-.1280	.0971	.2383	-.2067	-.0590	.0417	.0113
292.500			.4358	-.5286	.1997	-.3840	-.1980	-.0801	.1237	.2144	-.3794	-.0496	.0735	.0210
315.000	.5076	.5182	.3433	-.5838	.1739	-.3264	-.2040	-.0788	.1274	.2001	-.3931	-.0034	.1402	-.0902
337.500	.5003	.4892	.3282	-.5834	.1139	-.2812	-.1942	9.9990	.1314	.2022	-.3866	.0601	.1986	-.0125
360.000	.4260	.3922	.2610	-.6140	-.0309	-.1159	-.2064	-.0711	.1262	.1939	-.3944	.1210	.2263	.0909

MACH (3) = 1.050 BETA (7) = 10.000 Q = 8.4447 PTA = 22.007 RL = 6.6571 PSA = 10.975

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI	.000	.3916	.2551	-.5826	-.0646	-.3031	-.1985	-.0363	.1445	.2002	-.4107	.0819	.1436	.0234
22.500	.3470	.3195	.1802	-.6798	-.1835	-.3320	-.1886	-.0272	.1500	.1847	-.3948	.1181	.1769	.0794
45.000	.3029	.2700	.1300	-.7169	-.2568	-.2586	-.1649	-.0226	.1557	.1913	-.4037	.1536	.2035	.1160
67.500			.1105	-.7267	-.3664	-.1179	-.1375	-.0542	.1499	.1924	-.4006	.1795	.2405	.1405
90.000	.2922	.2446	.1105	-.7166	-.4507	-.0991	-.0840	-.0350	.1581	.1883	-.3942	.2102	.2546	.1598
112.500			.1176	-.7180	-.4935	-.0546	-.0523	-.0455	.1437	.1788	-.4079	.2172	.2740	.2007
135.000	.2967	.2541	.1255	-.7173	-.5013	-.0789	-.0400	-.0588	.1347	.1731	-.3950	.2469	.3239	.2441
157.500	.3165	.2757	.1457	-.7020	-.4749	-.1421	-.0309	-.0506	.1242	.1590	-.3950	.2744	.3882	.3241
180.000	.3343	.3154	.1809	-.6867	-.3965	-.2503	-.0124	-.0216	9.9990	.1494	-.4135	.2692	.4354	.4160
202.500	.3609	.3572	.2229	-.6821	-.1721	-.3443	-.0115	-.0225	.0690	.1398	-.4236	.1829	.3912	.4335
225.000	.3799	.3937	.2301	-.6867	-.1357	-.4188	-.0433	-.0438	.0793	.1597	-.4469	.0334	.2161	.3210
247.500			.3009	-.6464	-.1874	-.5565	-.0705	-.0576	.0896	.1969	-.4886	-.0558	.0320	.2316
270.000	.4207	.5219	.4969	-.5208	.0690	-.6127	-.2025	-.1326	.0814	.2121	-.2299	-.0544	-.0028	-.0511
292.500			.4245	-.5277	.2110	-.4254	-.2337	-.0742	.1106	.1903	-.3940	-.0355	.0850	-.0139
315.000	.4883	.5044	.3371	-.5436	.1508	-.3684	-.2282	-.0742	.1157	.1734	-.4334	-.0125	.1047	-.0944
337.500	.4883	.4878	.3383	-.5460	.0925	-.3156	-.2018	9.9990	.1248	.1828	-.3976	.0220	.1179	-.0497
360.000	.4099	.3916	.2591	-.5826	-.0646	-.3031	-.1985	-.0363	.1445	.2002	-.4107	.0819	.1436	.0234

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MACH (4) = 1.250 BETA (1) = -10.000 Q = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

(R82502)

MSFC 567(1A32F) T9 S3/2 S3/2 O3 SRM BOOSTER

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5468	.6570	.7653	.8834	.9122	.9555
PHI	.000	.4391	.4161	.3242	-.4189	-.2974	.1328	.1596	-.0208	.0008	.3890	-.3600	.0559	.3373
22.500	.4434	.4317	.3595	-.4038	-.2617	.1941	.1415	-.0120	.0071	.3540	.3540	-.4060	-.0571	.4140
45.000	.4696	.4642	.3860	-.3860	-.2180	.2026	.1132	.0092	.0062	.3071	.3071	-.4020	-.1657	.4576
67.500	.4933	.5143	.4387	-.3529	-.1640	.0416	.0447	.0301	.0057	.1613	.1613	-.4231	-.1122	.4670
90.000	.4592	.4533	.4171	-.3680	-.1887	-.0980	.0097	.0119	-.0349	.1192	.1192	-.4079	-.0814	.4154
112.500	.4348	.4205	.3827	-.3980	-.2242	-.1452	.0061	-.0149	-.0767	.0581	.0581	-.4101	-.0876	.3267
157.500	.4178	.3991	.3081	-.4175	-.2948	-.2048	.0250	.0104	.0088	.1459	.1459	-.3713	-.0496	.1241
180.000	.4226	.4226	.3088	-.4207	-.3394	-.1055	.0195	.0161	.0088	.1437	.1437	-.3612	-.0511	.0254
202.500	.4730	.4605	.4421	-.3758	-.4951	-.1004	.0421	.0291	.0020	.1679	.1679	-.3211	-.0650	.0116
225.000	.5303	.6095	.6471	-.2480	-.4881	-.3189	.1805	-.0120	.0167	.2076	.2076	-.3297	-.1004	.0216
247.500	.4904	.4837	.4793	-.3521	-.4938	-.0253	.1042	.0000	.0317	.4404	.4404	-.3362	.0604	.1754
292.500	.4470	.4383	.3191	-.4171	-.4242	.0816	.1662	-.0062	.0253	.4254	.4254	-.3497	.0754	.3568
315.000	.4391	.4161	.3242	-.4189	-.2974	.1328	.1596	-.0208	.0008	.3890	.3890	-.3600	.0559	.3373
337.500														
360.000														

MACH (4) = 1.250 BETA (2) = -8.000 Q = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5468	.6570	.7653	.8834	.9122	.9555
PHI	.000	.4013	.4005	.3188	-.4114	-.2931	.1584	.1167	-.0452	.0059	.3630	-.3506	.0634	.3063
22.500	.3903	.4124	.3487	-.4025	-.2667	.1871	.0768	.0768	-.0335	.3216	.3216	-.3887	-.0276	.3703
45.000	.4031	.4339	.3718	-.3857	-.2340	.1880	.0668	.0668	-.0044	.0473	.0473	-.3847	-.1674	.4118
67.500	.4238	.4697	.3936	-.3675	-.2084	.0151	.0576	.0218	-.0506	.2158	.2158	-.3896	-.1640	.4302
90.000	.4040	.4248	.3917	-.3733	-.2115	.1131	.0110	.0094	-.0489	.1449	.1449	-.3887	-.1119	.4344
112.500	.3915	.4048	.3643	-.3913	-.2416	.1565	.0119	-.0188	-.0739	.0657	.0657	-.3759	-.0601	.4001
157.500	.3851	.3843	.3058	-.4017	-.2716	.2016	.0187	.0188	-.0761	.1051	.1051	-.3525	-.0560	.2415
180.000	.4086	.4061	.2960	-.4263	-.3554	.1403	.0263	.0044	.0044	.1298	.1298	-.3579	-.0391	.1206
202.500	.4551	.4472	.3136	-.4410	-.5069	.1300	-.0194	-.0069	-.0069	.1575	.1575	-.2940	-.0133	.0374
225.000	.5180	.5020	.4379	-.3819	-.5347	.1952	-.0266	.0077	.0211	.1693	.1693	-.2410	-.0133	.0805
270.000	.4770	.4762	.4793	-.3527	-.4895	.0320	.0900	-.0429	.0545	.4045	.4045	-.3310	-.0187	.1355
292.500	.4232	.4303	.3172	-.4181	-.3388	.1762	.1311	.0990	.0591	.4179	.4179	-.3428	.0534	.1665
315.000	.4013	.4005	.3188	-.4114	-.2931	.1584	.1167	-.0452	.0059	.3630	.3630	-.3506	.0634	.3063
337.500														
360.000														

ORIGINAL PAGE IS OF POOR QUALITY

MSFC 567(1A32F) TO 53/2 53/2 03 SRM BOOSTER (R82502)

MACH (4) = 1.250 BETA (3) = -4.000 Q = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.3788	.3928	.3982	-.3882	-.2395	.1875	.0444	-.1153	-.0335	.3119	-.3758	.0794	.2681	.3186
22.500	.3122	.3789	.3943	-.2380	.1567	-.0904	-.0904	-.0454	.2713	-.3852	.0509	.3021	.4138	.3941
45.000	.3075	.3846	.3917	-.2392	.1341	-.0662	-.0575	-.0546	.2358	-.3820	-.0577	.3328	.3941	.3941
67.500			.3546	-.3838	-.2413	.0591	-.0004	-.0229	-.0517	.1954	-.3721	-.1004	.3670	.3733
90.000	.2964	.3911	.3610	-.3814	-.2397	.0066	.0025	-.0058	-.0541	.1467	-.3649	-.0516	.3734	.3542
112.500			.3486	-.3910	-.2530	-.0566	.0200	-.0045	-.0504	.1184	-.3533	-.0093	.3424	.3120
135.000	.2961	.3766	.3411	-.3948	-.2643	-.1509	.0321	-.0103	-.0612	.0838	-.3316	.0114	.2885	.2685
157.500	.3083	.3704	.3183	-.4082	-.2883	-.1655	.0301	-.0157	-.0533	.0905	-.2932	-.0019	.2061	.2157
180.000	.2662	.3654	.3032	-.4138	-.3864	-.1811	.0156	.0094	9.9990	.0922	-.2731	.0082	.1301	.1738
202.500	.2803	.3507	.2894	-.4262	-.3500	-.1646	-.0025	-.0054	.1082	-.2505	-.0353	.0337	.1249	.1249
225.000	.3286	.4403	.3111	-.4362	-.4217	-.1863	-.0134	.0303	.0036	.1399	-.2463	-.0896	-.0117	.1049
247.500			.4318	-.3777	-.4681	-.2290	-.0050	.0008	.0120	.1732	-.2062	-.1146	-.0163	.1152
270.000	.4888	.6013	.6418	-.2471	-.4304	-.3530	-.0212	-.0237	.0108	.2446	-.2014	-.1076	-.0146	.1158
292.500			.4962	-.3364	-.3556	-.0641	.1038	-.0433	.0004	.3532	-.3837	-.0396	-.0129	.0790
315.000	.3630	.4793	.3668	-.4055	-.3138	.0654	.1079	-.0696	-.0087	.3601	-.3354	.0636	.2240	-.1746
337.500	.3076	.4253	.3430	-.3923	-.2667	.1088	.0859	9.9990	-.0146	.3463	-.3574	.0891	.3214	.1939
360.000	.3799	.3928	.3382	-.3982	-.2355	.1875	.0444	-.1153	-.0335	.3119	-.3758	.0794	.2681	.3186

MACH (4) = 1.250 BETA (4) = .000 Q = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.2298	.3882	.3440	-.3895	-.2136	.1206	.0226	-.0902	-.0464	.1939	-.3875	.1030	.2734	.1930
22.500	.1917	.3625	.3371	-.3882	-.2259	.0505	-.0239	-.0914	-.0639	.1484	-.3788	.1110	.2892	.2954
45.000	.1779	.3515	.3286	-.3970	-.2525	.0396	-.0452	-.0868	-.0735	.1308	-.3782	.0977	.3055	.3167
67.500			.3238	-.4025	-.2692	.0089	-.0332	-.0639	-.0735	.1168	-.3759	.0818	.3339	.3223
90.000	.1560	.3110	.3177	-.4022	-.2709	-.0151	-.0143	-.0405	-.0589	.0573	-.3638	.0945	.3373	.3090
112.500			.3155	-.4101	-.2822	-.0851	-.0018	-.0231	-.0381	.0821	-.3095	.1143	.3071	.2896
135.000	.1834	.3092	.3046	-.4099	-.2863	-.1267	-.0059	-.0197	-.0259	.0516	-.2730	.1114	.2598	.2781
157.500	.2114	.3193	.3006	-.4089	-.2997	-.1055	-.0668	-.0097	-.0122	.0432	-.2522	.0948	.2197	.2714
180.000	.2275	.3543	.3030	-.4172	-.3133	-.1298	.0015	.0048	9.9990	.0607	-.2387	.0416	.1567	.2368
202.500	.2400	.3811	.3020	-.4160	-.3556	-.1480	-.0174	-.0024	-.0012	.0811	-.2550	.0055	.0966	.2119
225.000	.2710	.4425	.3255	-.4269	-.3907	-.1722	-.0244	-.0078	-.0015	.1162	-.2487	-.0564	.0293	.1592
247.500			.4495	-.3661	-.4335	-.2400	-.0232	-.0161	.0013	.1436	-.2142	-.0868	.0026	.1388
270.000	.3411	.6093	.6502	-.2381	-.3734	-.2768	-.0140	-.0361	-.0044	.2041	-.2029	-.0746	.0082	.1052
292.500			.5043	-.3246	-.2975	-.1143	.0380	-.0481	-.0256	.2703	-.4989	-.0672	.0247	.0843
315.000	.3082	.4865	.3828	-.3900	-.2630	-.0173	.0363	-.0614	-.0389	.2749	-.3873	-.0288	.3145	-.1222
337.500	.2652	.4304	.3609	-.3843	-.2349	.0305	.0184	9.9990	-.0526	.2577	-.3733	.0794	.3197	.0781
360.000	.2298	.3882	.3440	-.3895	-.2136	.1206	.0226	-.0902	-.0464	.1939	-.3875	.1030	.2734	.1930

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82502)

DATE 05 SEP 75

MSFC 567(1A32F) T8 53/2 53/2 03 SRM BOOSTER

MACH (9) = 1.480 BETA (2) = -8.000 Q = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 6.3637

DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PH1														
.000	.2583	.3978	.4073	-.2122	-.1482	.0482	.0670	.0289	.0588	.1056	-.1875	-.1801	.2668	.5012
22.500	.2800	.3872	.4274	-.2068	-.1254	.1035	.0928	.0568	.0187	.0756	-.1954	-.1414	.2464	.5322
45.000	.3240	.3727	.4325	-.1949	-.1024	-.0275	.1042	.0731	-.0164	.0694	-.1978	-.0652	.3035	.4977
67.500	.3627	.4233	.4393	-.1851	-.0840	-.0389	.0985	.0728	.0003	.0580	-.2102	-.0345	.3807	.4577
90.000			.4552	-.1788	-.0682	-.0369	.0650	.0515	.0249	.0339	-.2233	-.0324	.4108	.3965
112.500			.4260	-.1852	-.0848	-.0357	.0200	.0122	.0167	.0142	-.2193	-.0435	.3957	.3600
135.000	.3123	.3717	.4085	-.1977	-.1101	-.0630	-.0257	-.0151	-.0089	-.0253	-.2098	-.0619	.3336	.3119
157.500	.2697	.3847	.4004	-.2093	-.1268	-.1082	-.0357	.0015	-.0054	-.0176	-.2028	-.1013	.2539	.2560
180.000	.2733	.3952	.4057	-.2232	-.1432	-.1350	-.0394	-.0027	.9.9990	-.0299	-.1835	-.0553	.1913	.1055
202.500	.2868	.4775	.3983	-.2284	-.1900	-.1178	-.0418	-.0022	.0030	.0590	-.1740	-.0112	.0503	.0581
225.000	.3011	.5331	.4261	-.2472	-.3297	-.1312	-.0761	-.0014	.0136	.1067	-.1756	-.0377	.0373	.1425
247.500			.5724	-.1794	-.3486	-.1822	-.0998	-.0173	.0311	.1609	-.1324	-.0565	.0687	.1646
270.000	.3381	.6888	.7805	-.0450	-.3454	-.2597	-.2048	-.1491	.0132	.2185	-.1879	-.0679	.0275	.2136
292.500			.6038	-.1585	-.3454	-.0577	.0369	-.0226	.0647	.2389	-.1735	-.0360	.0752	.0911
315.000	.3189	.8453	.4489	-.2346	-.3269	.0875	.0745	.0104	.0794	.1847	-.1699	.0716	.2295	.1969
337.500	.2693	.4888	.4244	-.2207	-.1854	.2158	.0773	.9.9990	.0590	.1361	-.1793	-.0104	.3287	.4446
360.000	.2595	.3978	.4073	-.2122	-.1482	.0482	.0670	.0289	.0588	.1096	-.1875	-.1801	.2868	.5012

MACH (9) = 1.480 BETA (3) = -4.000 Q = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 6.3637

DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PH1														
.000	.2223	.3945	.3582	-.2397	-.1834	-.0254	-.0283	.0300	-.0262	.0545	-.2322	-.1922	.2760	.4208
22.500	.2292	.2982	.3561	-.2450	-.1683	.1108	.0002	-.0083	-.0197	.0145	-.2379	-.1755	.2421	.4710
45.000	.2536	.2776	.3298	-.2407	-.1567	.0965	.0182	.0035	-.0164	-.0049	-.2264	-.1016	.2650	.4404
67.500			.3118	-.2347	-.1490	-.0739	.0235	.0284	-.0107	-.0156	-.2171	-.0633	.3435	.3949
90.000	.2720	.2732	.3054	-.2423	-.1472	-.0816	.0077	.0313	-.0090	-.0261	-.2070	-.0421	.4002	.3378
112.500			.3088	-.2383	-.1547	-.0941	-.0082	.0203	-.0106	-.0147	-.1913	-.0388	.4094	.3017
135.000	.2454	.2740	.3294	-.2346	-.1583	.1004	-.0013	.0117	-.0160	-.0257	-.1837	-.0257	.3558	.2872
157.500	.2227	.2868	.3590	-.2405	-.1694	.1433	.0027	.0068	-.0262	-.0123	-.1649	-.0021	.2610	.2529
180.000	.1886	.3020	.3674	-.2304	-.1601	.1344	-.0015	.0070	.9.9990	-.0245	-.1596	.0498	.1559	.2045
202.500	.2116	.4122	.3782	-.2376	-.2114	.1469	-.0141	-.0043	.0215	.0581	-.1502	.0175	.0574	.1319
225.000	.2284	.5208	.4093	-.2495	-.3352	.1870	-.0493	-.0052	-.0162	.0972	-.1662	-.0264	.0307	.1177
247.500			.5572	-.1849	-.3500	.2364	-.0800	.0045	-.0154	.1393	-.1874	-.0469	.0433	.1565
270.000	.2568	.6774	.7713	-.0440	-.3400	-.2719	-.1698	.0522	-.0408	.2009	-.1874	-.0469	.0433	.1662
292.500			.5985	-.1547	-.3392	-.0608	-.0591	.0233	-.0244	.2037	-.2120	.0180	.0695	.0323
315.000	.2439	.5823	.4461	-.2307	-.3218	.0478	-.0248	.0502	-.0310	.1225	-.2082	.0421	.2917	-.0117
337.500	.2259	.4387	.4044	-.2262	-.1968	.1724	-.0134	.9.9990	-.0452	.0748	-.2132	-.0628	.3333	.3864
360.000	.2223	.3945	.3582	-.2397	-.1834	-.0254	-.0283	.0300	-.0262	.0545	-.2322	-.1922	.2760	.4208

ORIGINAL PAGE IS OF POOR QUALITY

MFSC 567(1A32F) 19 53/2 53/2 03 SRM BOOSTER (R82502)

MACH (5) = 1.480 BETA (4) = .000 Q = 9.4716 PTA = 22.00% RL = 6.5271 PSA = 6.3637

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PH1														
.000	.1687	.3148	.3695	-.2326	-.1750	-.0035	-.1281	.0388	-.0713	.1572	-.2771	-.1428	.3112	.3050
22.500	.1686	.2405	.3467	-.2468	-.1754	.0715	-.1027	.0454	-.0647	.0874	-.2876	-.1749	.3016	.3938
45.000	.1800	.2143	.3041	-.2524	-.1724	.0808	-.0810	.0307	-.0614	.0433	-.2826	-.1230	.2918	.3796
67.500			.2469	-.2512	-.1741	.0001	-.0594	.0184	-.0480	.0029	-.2799	-.0786	.3430	.3536
90.000	.1915	.1997	.2401	-.2624	-.1654	-.0211	-.0346	.0115	-.0354	-.0215	-.2488	-.0321	.4022	.3304
112.500			.2442	-.2513	-.1733	-.0974	.0013	-.0063	-.0321	-.0239	-.1928	.0111	.3759	.3143
135.000	.1750	.2138	.2921	-.2547	-.1711	-.1274	.0246	-.0097	-.0182	-.0043	-.1586	.0813	.2267	.2740
160.000	.1650	.2364	.3340	-.2477	-.1803	-.1481	.0282	-.0096	-.0096	.0344	-.1521	.0695	.1671	.2340
180.000	.1891	.2638	.3532	-.2439	-.1762	-.1288	.0299	-.0096	-.0096	.0617	-.1509	.0225	.0927	.1837
202.500	.1964	.3220	.3775	-.2389	-.2287	-.1556	.0046	-.0132	-.0096	.0617	-.1509	.0225	.0229	.1254
225.000	.2015	.5111	.4246	-.2486	-.3330	-.2066	-.0210	-.0149	-.0988	.1388	-.1305	-.0403	.0196	.1287
247.500			.5611	-.1797	-.3446	-.2475	-.0606	-.0218	-.0263	.1388	-.1247	-.0300	.0266	.1360
270.000	.2195	.7011	.7655	-.0533	-.3299	-.2711	-.1328	-.0451	-.0606	.2200	-.1247	-.0300	.0266	.1360
292.500			.6068	-.1517	-.3277	-.0741	-.1529	.0327	-.0664	.2936	-.3246	-.0349	.0752	.0756
315.000	.2180	.5628	.4522	-.2295	-.3079	.0156	-.1442	.0454	-.0749	.2955	-.2648	-.0190	.3422	-.0934
337.500	.2152	.3904	.4128	-.2252	-.1991	.1025	-.1231	.9.9990	-.0807	.2601	-.2831	-.0704	.3663	.1626
360.000	.1687	.3148	.3695	-.2326	-.1750	-.0035	-.1281	.0388	-.0713	.1572	-.2771	-.1428	.3112	.3050

MACH (5) = 1.460 BETA (5) = 4.000 Q = 9.4716 PTA = 22.00% RL = 6.5271 PSA = 6.3637

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PH1														
.000	.1580	.2821	.3458	-.2408	-.1526	-.0567	-.1967	-.0322	-.0812	.1939	-.2700	.0371	.3121	.2014
22.500	.1303	.1679	.2696	-.2540	-.1760	-.0060	-.1564	-.0195	-.0836	.1373	-.2663	.0633	.2443	.2741
45.000	.1172	.1503	.2455	-.2729	-.1916	.0020	-.1180	-.0077	-.0784	.1029	-.2698	.0723	.2372	.2527
67.500			.1720	-.2744	-.1940	.0131	-.0722	.0110	-.0628	.0792	-.2511	.0801	.2508	.2498
90.000	.1049	.1168	.1576	-.2902	-.1992	.0102	-.0305	.0143	-.0359	.0424	-.2469	.1016	.2891	.2564
112.500			.1628	-.2851	-.2092	-.0543	-.0003	-.0019	-.0166	.0135	-.1938	.1327	.3046	.2629
135.000	.1053	.1482	.2262	-.2849	-.2134	-.1118	.27	-.0285	.0000	-.0011	-.1939	.1475	.2574	.2574
157.500	.1204	.1813	.2792	-.2707	-.2164	-.1286	.0122	-.0273	.0057	-.0004	-.2041	.1565	.2535	.2772
180.000	.1460	.2276	.3202	-.2617	-.2209	-.1343	.0035	-.0298	-.0000	.0072	-.1784	.0978	.2337	.3300
202.500	.1619	.3243	.3492	-.2502	-.2481	-.1592	-.0261	-.0241	-.0229	.0444	-.1886	.0370	.1387	.3045
225.000	.1712	.4897	.4008	-.2575	-.3305	-.2020	-.0498	-.0258	-.0270	.0818	-.1715	-.0331	.0439	.2121
247.500			.5348	-.1997	-.3426	-.2483	-.0894	-.0311	-.0355	.1167	-.1347	-.0572	.0166	.1586
270.000	.2010	.6839	.7532	-.0508	-.3076	-.2680	-.1387	-.0477	-.0608	.1769	-.1261	-.0396	.0276	.1182
292.500			.6194	-.1433	-.2768	-.0817	-.2066	-.0193	-.0833	.2366	-.2988	-.0221	.0329	.0949
315.000	.2010	.5660	.4739	-.2157	-.2365	-.0232	-.2324	-.0110	-.0991	.2536	-.2922	.0036	.3215	.1437
337.500	.1867	.4498	.4184	-.2271	-.1614	.0263	-.2312	.9.9990	-.1198	.2218	-.2876	.0297	.3890	.0798
360.000	.1580	.2821	.3458	-.2408	-.1526	-.0567	-.1967	-.0322	-.0812	.1939	-.2700	.0371	.3121	.2014

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(R8FS02)

MSFC 567(1A32F) T9 53/2 53/2 03 SRM BOOSTER

MACH (5) = 1.460 BETA (6) = 8.000 Q = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 6.3637

DEPENDENT VARIABLE CP

X/L/S	PHI	0.00	.1235	.2663	.3214	-.2483	-.1364	-.0312	-.2801	-.0997	-.1279	.1410	-.3106	.0958	.3940	.1084
22.500	.0769	.1867	.2483	-.2809	-.1931	-.0568	-.2376	-.0670	-.1229	-.0953	-.3200	.1043	.3340	.2077	.2277	.2227
45.000	.0532	.1198	.1913	-.3023	-.2252	-.0843	-.1737	-.0418	-.0998	.1014	-.3023	.1100	.2439	.2227	.2366	.2166
67.500	.0381	.0740	.1140	-.3128	-.2181	-.0201	-.0471	-.0075	-.0426	.0581	-.3011	.1276	.2795	.2313	.2799	.2313
90.000	.0594	.0954	.1035	-.3200	-.2261	-.0380	-.0176	-.0250	-.0290	.0198	-.2921	.1508	.3432	.2799	.3093	.3093
112.500	.0838	.1422	.2095	-.2989	-.2458	-.1185	-.0201	-.0234	-.0189	-.0238	-.2738	.1786	.4561	.4187	.4465	.4465
157.500	.1256	.1940	.2837	-.2650	-.2261	-.1208	-.0291	-.0238	9.9990	.0171	-.2471	.1605	.3916	.4187	.4465	.4465
180.000	.1571	.2653	.3331	-.2406	-.2304	-.1230	-.0374	-.0100	-.0251	.0612	.2580	.1051	.2763	.3350	.3350	.3350
202.500	.1892	.4198	.3957	-.2406	-.2304	-.1230	-.0374	-.0100	-.0251	.0612	.2580	.1051	.2763	.3350	.3350	.3350
225.000	.2640	.6247	.7513	-.0479	-.1858	-.2370	-.1478	-.0135	-.0597	.1576	-.1539	-.0282	.0589	.1203	.1203	.1203
247.500	.2851	.4304	.4644	-.2031	-.0807	-.0234	-.2874	-.0172	-.0925	.2012	-.2893	.0527	.2344	-.1068	-.1068	-.1068
315.000	.2378	.3643	.4036	-.2191	-.0970	.0167	-.2878	9.9990	-.1122	.1989	-.2899	.0994	.3484	-.0831	-.0831	-.0831
337.500	.1238	.2663	.3214	-.2483	-.1364	-.0312	-.2801	-.0597	-.1279	.1410	-.3106	.0958	.3940	.1084	.1084	.1084

MACH (5) = 1.460 BETA (7) = 10.000 Q = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 6.3637

DEPENDENT VARIABLE CP

X/L/S	PHI	.000	.1254	.2159	.3041	-.2510	-.1156	-.0499	-.3171	-.0842	-.1331	.1629	-.3504	.1054	.2385	.0797
22.500	.0728	.1390	.2182	-.2893	-.1937	-.0843	-.2676	-.0835	-.1231	.1071	-.3418	.1117	.2235	.1423	.1423	.1423
45.000	.0410	.0982	.1525	-.3174	-.2385	-.1361	-.1970	-.0593	-.1063	.1023	-.3528	.1099	.2381	.1561	.1561	.1561
67.500	.0280	.0635	.0921	-.3282	-.2318	-.0283	-.0549	-.0193	-.0524	.0890	-.3529	.1164	.3066	.2087	.2087	.2087
90.000	.0432	.0687	.1218	-.3167	-.2405	-.0046	-.0255	-.0276	-.0354	.0324	-.3373	.1436	.3148	.2318	.2318	.2318
112.500	.0683	.1047	.1878	-.3044	-.2631	-.1174	-.0251	-.0181	-.0263	.0046	-.3325	.2111	.4013	.3295	.3295	.3295
157.500	.1365	.2160	.2744	-.2803	-.2501	-.1335	-.0515	-.0392	9.9990	-.0135	-.3230	.1206	.4729	.3973	.3973	.3973
180.000	.1791	.3171	.3469	-.2554	-.2321	-.1333	-.0927	-.0205	-.0271	.0006	-.3214	.1206	.4316	.3937	.3937	.3937
202.500	.2336	.4693	.4082	-.2453	-.2143	-.1355	-.0923	-.0286	-.0539	.0341	-.3394	.1073	.4316	.3937	.3937	.3937
225.000	.3519	.6223	.7359	-.0637	-.1208	-.2244	-.1763	-.0376	-.1045	.0875	-.2458	.0642	.0222	.2390	.2390	.2390
247.500	.3659	.4648	.5855	-.1557	-.0544	-.1495	-.2728	-.0426	-.1364	.1261	-.2095	-.0540	.0500	.1039	.1039	.1039
315.000	.3117	.3496	.4487	-.2126	-.0266	-.1074	-.3227	-.0524	-.1364	.1347	-.3295	.0198	.1733	.1230	.1230	.1230
337.500	.1254	.2159	.3041	-.2510	-.1156	-.0499	-.3171	-.0842	-.1331	.1629	-.3504	.1054	.2385	.0797	.0797	.0797

TABULATED SOURCE DATA, MSFC TH1 567 (1A32F)

(R2502)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 G3 SRM BOOSTER

MACH (6) = 1.960 BETA (1) = -8.000 Q = 10.263 PTA = 27.997 RL = 7.0840 PSA = 3.8384

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER	X/L5	PHI	BETA (1)	Q	PTA	RL	PSA							
	.0433	.2738	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
	.2670	.3184	-.0428	.0184	.0927	.1645	.1158	.0429	.0794	-.0908	.0553	.3345	.3239	
	.3344	.3280	-.0712	-.0096	.0122	.1677	.1049	.0588	.0607	-.1292	.1140	.4302	.1930	
	.3744	.3654	-.0668	-.0212	.0047	.1188	.0924	.0735	.0293	-.1390	.1539	.4974	.2756	
	.3995	.3966	-.0506	-.0136	.0236	.0274	.0883	.0817	.0383	-.1543	.1254	.5203	.3638	
	.3641	.4055	-.0462	-.0058	.0265	.0338	.0822	.0712	.0293	-.1585	.0953	.4899	.4103	
	.3243	.3833	-.0558	-.0158	.0296	.0206	.0383	.0319	.0157	-.1488	.0508	.4344	.3932	
	.2847	.3509	-.0714	-.0227	.0031	-.0076	.0036	.0021	-.0069	-.1464	.0104	.3333	.3295	
	.2395	.3179	-.0861	-.0155	.0108	-.0344	.0008	-.0016	-.0084	-.1430	-.0427	.2252	.2502	
	.2442	.3436	-.0306	.0161	-.0306	-.0700	-.0010	9.9990	.0259	-.1394	-.0311	.1529	.1518	
	.2670	.4935	.0071	-.0183	-.0585	.0113	-.0048	.0342	.0522	-.1332	.0327	.0999	.1071	
	.2738	.6071	-.0067	-.1294	-.1306	-.0074	.0041	.0413	.0781	-.1468	.0289	.1055	.1728	
	.2500	.8003	.0691	-.1378	-.1774	.0000	.0154	.0259	.1417	-.1077	.0161	.1112	.1810	
	.2437	1.0577	.2431	-.1398	-.1850	-.0539	-.0415	-.0453	.0612	-.1285	.0323	.1174	.1837	
	.2520	.6510	.1006	-.1298	-.1918	.1589	.0909	.0289	.1040	-.1325	-.0119	.1566	-.0593	
	.2870	.6414	.0049	-.1257	.1966	.1228	.1228	.0417	.1044	-.1182	-.0919	.4052	-.0844	
	.2738	.5194	.0083	-.0138	-.0559	.1765	9.9990	.0402	.0856	-.0682	-.0354	.2526	.1769	
		.3184	-.0428	.0164	.0927	.1645	.1158	.0429	.0754	-.0908	.0553	.3345	.3239	

MACH (6) = 1.560 BETA (2) = -4.000 Q = 10.263 PTA = 27.997 RL = 7.0840 PSA = 3.8384

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER	X/L5	PHI	BETA (2)	Q	PTA	RL	PSA							
	.0433	.2738	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
	.2280	.2375	.2783	-.0719	-.0088	.0584	.0837	.0361	.0232	.0508	-.1405	-.0121	.3282	.3803
	.2569	.2565	.2696	-.1018	-.0411	-.0113	.0986	.0293	.0048	.0368	-.1524	.0393	.3982	.1717
	.2874	.2818	.2912	-.1001	-.0593	-.0208	.0976	.0308	.0160	.0304	-.1573	.0764	.4253	.2458
	.3047	.2922	.3145	-.0959	-.0708	-.0099	.0818	.0364	.0296	.0266	-.1616	.0723	.4407	.3180
	.2937	.2688	.2790	-.0883	-.0729	-.0148	.0217	.0217	.0263	.0119	-.1615	.0538	.4771	.3511
	.2661	.2430	.2581	-.0940	-.0706	-.0197	-.0069	.0055	.0190	.0141	-.1528	.0342	.4668	.3608
	.2221	.2624	.2658	-.0763	-.0110	-.0493	-.0643	.0259	.0274	.0081	-.1507	.0153	.2255	.3225
	.1954	.2294	.4041	-.0072	-.0412	-.0858	-.0567	.0089	.0274	.0236	-.1557	.0232	.2255	.2583
	.1803	.2626	.5812	-.0159	-.1379	-.1552	-.0238	.0008	.0248	.0285	-.1476	.0358	.1524	.1349
	.1730	.3318	.7843	.0654	-.1466	-.2061	-.0509	-.0015	.0255	.0749	-.1290	.0275	.0755	.1358
	.2700	.6210	.10438	.2423	-.1441	-.2130	-.0948	-.0181	.0174	.0123	-.1315	.0454	.2429	.2350
	.1807	.2877	.6433	.1008	-.1355	-.1454	.0986	.0089	.0274	.0526	-.1375	.0354	.2429	.2350
	.1991	.2575	.6210	.0014	-.1307	-.1170	.0285	.0387	.0654	.0517	-.1365	.0544	.2429	.2350
	.2280	.2375	.2783	-.0719	-.0088	.0584	.0837	.0361	.0232	.0508	-.1405	-.0121	.3282	.3803

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(R82502)

SRM BOOSTER

MACH (8) = 1.960 BETA (3) = .000 0 = 10.263 PTA = 27.997 RL = 7.0840 PSA = 3.8384

DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI														
.000	.1753	.1956	.2310	-.0843	-.0286	.0057	-.0004	-.0263	.0104	.0033	-.1729	-.0444	.2737	.3287
22.500	.1960	.1960	.2180	-.1238	-.0647	-.0286	.0187	-.0463	.0090	-.0034	-.1682	.0033	.3075	.3241
45.000	.2031	.2078	.2042	-.1347	-.0878	-.0405	.0338	-.0435	.0143	-.0115	-.1608	.0173	.3594	.1901
67.500			.2049	-.1323	-.0981	-.0342	.0454	-.0267	.0278	-.0011	-.1451	.0311	.4245	.2756
90.000	.2096	.2224	.2096	-.1337	-.0972	-.0352	.0338	-.0097	.0315	.0026	-.1280	.0263	.4332	.3221
112.500			.2126	-.1321	-.0907	-.0395	.0057	.0180	.0293	.0123	-.1097	.0443	.3243	.3044
135.000	.2098	.2057	.2139	-.1313	-.0814	-.0337	-.0348	.0311	.0270	.0097	-.1214	.1135	.2109	.2417
157.500	.2064	.1951	.2271	-.1263	-.0729	-.0533	.0330	.0327	9.9990	.0116	-.1321	.1042	.1944	.2145
180.000	.1980	.1999	.2523	-.0904	-.0358	-.0625	-.0350	.0327	9.9990	.0116	-.1321	.1042	.1944	.2145
202.500	.1771	.2211	.3784	-.0143	-.0598	-.1038	-.0177	.0154	.0221	.0090	-.1210	.0584	.1429	.1651
225.000	.1625	.2607	.5975	-.0060	-.1354	-.1644	-.0338	.0052	.0139	.0297	-.1210	.0354	.0421	.1300
247.500			.6078	.0857	-.1445	-.2137	-.0692	-.0034	.0037	.0526	-.0879	-.0105	.0447	.1515
270.000	.1510	.3059	1.0484	.2480	-.1420	-.2260	-.1239	-.0120	-.0416	-.0041	-.0150	-.0092	.0436	.1575
292.500			.6443	.1018	-.1368	-.2217	.0338	-.0011	.0056	.0116	-.1609	.0150	.1375	.0424
315.000	.1502	.2605	.6123	.0018	-.1307	-.0966	.0470	.0229	.0240	.0255	-.1639	.0303	.3696	.0485
337.500	.1611	.2266	.4251	-.0087	-.0407	-.0825	.0187	9.9990	.0205	.0153	-.1653	-.0525	.3661	.2503
360.000	.1753	.1956	.2310	-.0843	-.0286	.0057	-.0004	-.0263	.0104	.0033	-.1729	-.0444	.2737	.3287

MACH (8) = 1.960 BETA (4) = 4.000 0 = 10.263 PTA = 27.997 RL = 7.0840 PSA = 3.8384

DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI														
.000	.1415	.1902	.2064	-.1180	-.0549	-.0273	-.0734	.0077	-.0243	-.0039	-.1789	-.0388	.2371	.2362
22.500	.1467	.1629	.1674	-.1459	-.0896	.0515	-.0551	-.0145	-.0296	-.0209	-.1759	-.0445	.2367	.2694
45.000	.1461	.1439	.1480	-.1467	-.1188	.0134	-.0336	-.0582	-.0208	-.0227	-.1786	-.0182	.2293	.2383
67.500			.1421	-.1658	-.1258	-.0511	-.0103	-.0552	-.0024	-.0212	-.1688	.0005	.2776	.2085
90.000	.1378	.1409	.1424	-.1672	-.1291	-.0604	.0059	-.0167	.0149	-.0151	-.1308	.0247	.3078	.2486
112.500			.1473	-.1678	-.1269	-.0638	.0126	.0104	.0179	-.0016	-.1144	.0798	.2621	.2493
135.000	.1371	.1401	.1567	-.1598	-.1215	-.0691	-.0140	.0176	.0089	-.0027	-.1299	.1168	.2161	.2245
157.500	.1413	.1522	.1779	-.1478	-.1121	-.0845	-.0257	.0205	-.0004	-.0012	-.1284	.1070	.2256	.2486
180.000	.1340	.1804	.2026	-.1289	-.0648	-.0904	-.0279	.0138	9.9990	.0003	-.1336	.0772	.2577	.2326
202.500	.1352	.1978	.3069	-.0427	-.0849	-.1189	-.0174	.0093	.0016	.0095	-.1281	.0436	.2339	.2158
225.000	.1629	.2306	.4136	-.0173	-.1397	-.1649	-.0241	.0100	-.0030	.0029	-.1363	.0030	.2502	.1825
247.500			.7824	.0726	-.1534	-.2107	.0539	.0205	-.0049	.0541	.0812	-.0225	.0191	.1372
270.000	.1887	.2520	1.0032	.2347	.1391	-.2190	.1267	.0541	.0193	.0142	-.0194	-.0177	.0195	.1432
292.500			.8266	.1046	-.1326	-.1533	-.0493	.0899	-.0188	-.0094	.1683	-.0045	.0532	.0586
315.000	.1647	.2475	.5657	.0135	-.1200	.0718	-.0477	.0593	-.0218	-.0090	-.1752	-.0184	.3241	-.0695
337.500	.1454	.2175	.4094	-.0242	-.0487	.1594	-.0540	9.9990	.0249	.0017	-.1678	-.0448	.3274	.1425
360.000	.1415	.1902	.2064	-.1180	-.0549	-.0273	-.0734	.0077	-.0243	-.0039	-.1789	-.0388	.2371	.2362

ORIGINAL PAGE IS OF POOR QUALITY

MACH (6) = 1.960 BETA (5) = 0.000 Q = 10.263 PTA = 27.997 PL = 7.294 PEA = 3.830

MSFC 567(1A32F) 19 53/2 53/2 03 SRM BOOSTER

(58352)

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9655
PHI	.000	.1653	.1784	.2254	-.1194	-.0871	-.1333	-.0547	-.0495	-.0247	-.1819	-.1361	.3236	.868
22.500	.1247	.1364	.1653	-.1483	-.1092	.0135	.1442	-.0453	-.0480	-.0378	-.1673	-.0752	.2400	.2159
45.000	.0764	.1066	.1329	-.1474	-.1396	.0034	.1114	-.0262	-.0348	-.0295	-.1620	-.0334	.2334	.1813
67.500	.0813	.0868	.1115	-.1818	-.1483	-.0307	.0251	-.0295	-.0235	-.0307	-.1703	.0131	.2338	.1762
90.000	.0977	.0952	-.1774	-.1484	-.0316	-.0139	-.0154	-.0030	-.0182	-.0182	-.1807	.0270	.2487	.1920
112.500	.0944	.0978	.1140	-.1835	-.1470	.0801	.0127	.0046	-.0045	-.0062	-.1534	.0257	.2355	.2353
135.000	.1212	.1223	.1449	-.1588	-.1318	-.1145	.0187	.0059	-.0147	-.0033	-.1677	.0210	.2343	.2321
157.500	.1285	.1510	.1604	-.1328	-.0759	-.0253	-.0195	9.9950	-.0034	-.0034	-.1676	.0039	.2333	.2329
180.000	.1805	.1805	.2954	-.0528	-.0854	-.1076	-.0143	-.0267	-.0071	-.0011	-.1520	.0031	.2324	.2325
202.500	.1834	.2204	.3973	-.0159	-.1334	-.1414	-.0053	-.0181	-.0053	-.0229	-.1547	.0042	.2321	.2321
225.000	.2143	.2090	.7377	.0526	-.1545	-.1748	-.0477	-.0057	.0041	.0057	-.1151	-.0032	.2323	.2321
247.500	.2660	.2998	.9352	.2139	-.1391	-.1929	-.1050	.0225	-.0030	.0051	-.1009	.0031	.2324	.2321
270.000	.3224	.3224	.7675	.0816	-.1270	-.0592	-.1017	.0417	-.0042	-.0033	-.1750	-.0031	.2324	.2321
292.500	.1960	.2735	.4844	.0161	-.1168	.0406	-.1089	.0232	-.0045	-.0032	-.1942	.0033	.2321	.2321
315.000	.1653	.1784	.2254	-.1194	-.0571	-.0807	-.1333	-.0547	-.0495	-.0247	-.1819	-.0351	.3335	.868

MACH (7) = 2.840 BETA (1) = -8.000 Q = 5.1699 PTA = 30.020 PL = 1.1200 PEA = 5.8360

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5469	.6570	.7653	.8634	.9122	.9655
PHI	.000	.3284	.2819	.2536	-.0149	.0237	.0461	-.0123	.0759	.1036	.0572	-.0238	.0035	.3361
22.500	.3542	.3222	.3121	.0041	.0183	.0392	.0131	.0694	.0921	.0819	-.0251	.0174	.0035	.3228
45.000	.3728	.3649	.3545	.0241	-.0178	.0405	.0338	.0502	.0584	.0714	-.0555	.0100	.0035	.3228
67.500	.3785	.3800	.3877	.0371	.0297	.0427	.0431	.0405	.0513	.0714	-.0593	.0035	.0035	.3228
90.000	.3594	.3486	.3746	.0371	.0297	.0442	.0445	.0409	.0420	.0412	-.0592	.0035	.0035	.3228
112.500	.3195	.3195	.3459	.0245	.0167	.0319	.0316	.0122	.0226	.0165	-.0592	.0035	.0035	.3228
135.000	.3057	.2811	.2994	.0044	-.0174	.0409	.0107	-.0168	-.0041	.0035	-.0592	.0035	.0035	.3228
157.500	.2811	.2196	.2338	-.0234	.0246	.0373	-.0257	.0237	9.9990	.0123	-.0592	.0035	.0035	.3228
180.000	.2424	.2125	.2491	.0705	.0259	.0651	-.0409	.0057	-.0052	.0035	-.0592	.0035	.0035	.3228
202.500	.2055	.2502	.5794	.3068	.0259	.0527	-.0256	.0035	.0035	.0035	-.0592	.0035	.0035	.3228
225.000	.2819	.2819	.6872	.5210	.0718	.0942	-.0335	.0035	-.0035	.0035	-.0592	.0035	.0035	.3228
247.500	.2383	.2133	.6170	.3445	.0489	.0561	.0054	.0035	.0035	.0035	-.0592	.0035	.0035	.3228
270.000	.2819	.2819	.2808	.1046	-.0700	.0193	.0953	.0255	0.0000	.0035	-.0592	.0035	.0035	.3228
292.500	.2819	.2819	.2819	.0168	-.0017	-.0047	9.9990	.0035	.0035	.0035	-.0592	.0035	.0035	.3228
315.000	.2819	.2819	.2819	.0237	.0461	-.0123	.0759	.1036	.0572	-.0238	.0035	.0035	.0035	.3228
337.500	.2819	.2819	.2819	.0237	.0461	-.0123	.0759	.1036	.0572	-.0238	.0035	.0035	.0035	.3228

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82502)

MSFC 567(1A32F) TO 53/2 53/2 03 SRM BOOSTER

DATE 05 SEP 75

MACH (7) = 2.980 BETA (2) = -4.000 Q = 5.1898 PTA = 30.020 RL = 4.1200 PSA = .82560

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1153	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.2700	.2323	.2051	-.0309	.0025	.0118	.0230	.0364	.0327	.0208	-.0466	.0502	.3541	.2472
22.500	.2710	.2539	.2385	-.0186	-.0087	.0003	.0003	.0294	.0167	.0145	-.0435	.0506	.4326	.2826
45.000	.2808	.2757	.2684	-.0166	-.0133	.0064	.0056	.0369	.0190	.0198	-.0688	.0753	.4135	.3572
67.500			.2830	-.0009	-.0079	.0091	.0117	.0334	.0214	.0181	-.0770	.0358	.3650	.3870
90.000	.2786	.2875	.2852	.0019	-.0051	.0079	.0131	.0198	.0153	.0093	-.0797	.0265	.2565	.3385
112.500			.2778	-.0002	-.0077	.0090	.0097	.0082	-.0025	.0019	-.0759	.0313	.1950	.2733
135.000	.2684	.2599	.2614	-.0084	-.0140	.0079	.0030	-.0111	-.0129	-.0051	-.0826	.0291	.1861	.2379
157.500	.2688	.2502	.2360	-.0200	-.0073	.0079	-.0092	-.0241	-.0144	-.0092	-.0666	.0056	.1607	.2010
180.000	.2524	.2151	.1898	-.0390	.0084	.0097	-.0401	-.0222	9.9990	-.0002	-.0800	-.0178	.1111	.1402
202.500	.2375	.1793	.1899	-.0166	-.0163	-.0260	-.0547	-.0181	-.0070	-.0081	-.0659	-.0036	.0709	.0988
225.000	.2062	.1689	.2181	.0313	.0168	-.0793	-.0480	-.0349	-.0263	.0052	-.0915	.0049	.0731	.1130
247.500	.1694	.2040	.3013	.2707	.0217	-.0972	-.0509	-.0342	-.0219	.0280	-.0887	.0047	.0696	.1120
270.000			.7762	.4938	.0636	-.0993	-.0555	-.0313	-.0291	.0219	-.0856	-.0096	.0724	.1074
292.500			.3639	.3106	.0440	-.0998	-.0043	.0444	.0071	.0384	-.0711	-.0122	.0545	.0727
315.000	.2040	.1695	.2338	.0604	.0358	-.0819	.0041	.0518	.0176	.0354	-.0600	-.0212	.1843	-.0402
337.500	.2416	.1865	.2040	-.0052	-.0099	-.0216	.0491	9.9990	.0249	.0222	-.0588	.0008	.1972	.1570
360.000	.2700	.2323	.2051	-.0309	.0025	.0118	.0230	.0364	.0327	.0208	-.0466	.0502	.3541	.2472

MACH (7) = 2.980 BETA (3) = .000 Q = 5.1898 PTA = 30.020 RL = 4.1200 PSA = .82560

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1153	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.2029	.1683	.1522	-.0484	-.0179	-.0168	.0215	-.0227	.0044	-.0093	-.0581	-.0209	.1344	.1075
22.500	.1946	.1793	.1678	-.0401	-.0278	-.0379	.0011	-.0181	-.0107	-.0133	-.0615	.0174	.1802	.1265
45.000	.1917	.1873	.1787	-.0399	-.0384	-.0294	-.0175	-.0104	-.0205	-.0104	-.0748	.0231	.2118	.1524
67.500			.1839	-.0346	-.0395	-.0209	-.0186	-.0030	-.0224	-.0116	-.0801	.0129	.2375	.2536
90.000	.1894	.1884	.1832	-.0335	-.0384	-.0209	-.0205	-.0222	-.0224	-.0179	-.0812	.0222	.1914	.2524
112.500			.1820	-.0354	-.0402	-.0209	-.0231	-.0156	-.0190	-.0149	-.0778	.0272	.1562	.1505
135.000	.1843	.1791	.1791	-.0384	-.0414	-.0227	-.0294	-.0224	-.0168	-.0093	-.0857	.0249	.1452	.1654
157.500	.1962	.1835	.1724	-.0443	-.0335	-.0373	-.0402	-.0265	-.0142	-.0045	-.0749	.0107	.1385	.1601
180.000	.2130	.1776	.1583	-.0499	-.0087	.0086	-.0577	.0561	9.9990	.0062	-.0842	-.0119	.1224	.1534
202.500	.2022	.1478	.1604	-.0339	-.0104	-.0339	-.0656	-.0302	-.0075	-.0045	-.0726	.0086	.1154	.1321
225.000	.1776	.1400	.1977	.0163	.0148	-.0842	-.0544	.0481	-.0224	.0018	-.0823	-.0047	.0627	.0575
247.500			.2320	.2640	.0211	-.1009	-.0671	-.0495	-.0216	.0085	-.0838	-.0123	.0353	.0641
270.000	.1422	.1876	.6290	.3903	.0614	-.1036	-.0652	-.0563	-.0250	-.0026	-.0756	-.0156	.0304	.0569
292.500			.2487	.2871	.0424	-.1047	-.0089	-.0086	.0085	.0155	-.0763	.0166	.0854	-.0420
315.000	.1689	.1361	.2144	.0448	.0354	-.0890	-.0062	-.0032	.0202	.0280	-.0637	-.0279	.1873	.0225
337.500	.1984	.1455	.1683	-.0205	-.0026	-.0302	.0193	9.9990	.0181	.0070	-.0752	-.0324	.1340	.0573
360.000	.2029	.1683	.1522	-.0484	-.0179	-.0168	.0215	-.0227	.0044	-.0093	-.0581	-.0209	.1344	.1075

TABLULATED SOURCE DATA, MSFC THT 567 (1A32F)

(RB2502)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER

DATE 05 SEP 75

MACH (7) = 2.990 BETA (4) = 4.000 Q = 5.1898 PTA = 30.020 RL = 4.1200 PSA = .82960

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER	X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1723	.1385	.1682	-.0405	-.0256	-.0278	.0086	-.0487	-.0275	-.0379	-.0673	-.0457	.0705	.0541
22.500	.1577	.1492	.1506	-.0465	-.0435	-.0390	-.0226	-.0266	-.0517	-.0364	-.0424	-.0585	-.0156	.1137	.0895
45.000	.1432	.1406	.1387	-.0465	-.0539	-.0405	-.0269	-.0289	-.0495	-.0375	-.0364	-.0707	-.0040	.1137	.1040
67.500			.1294	-.0547	-.0580	-.0390	-.0278	-.0386	-.0386	-.0345	-.0248	-.0707	-.0017	.1260	.1231
90.000	.1268	.1306	.1251	-.0533	-.0589	-.0387	-.0201	-.0272	-.0305	-.0138	-.0220	-.0733	.0220	.1316	.1383
112.500			.1262	-.0551	-.0603	-.0384	-.0261	-.0201	-.0205	-.0048	-.0000	-.0707	.0310	.1249	.1316
135.000	.1290	.1275	.1305	-.0565	-.0599	-.0390	-.0316	-.0174	-.0084	-.0000	-.0000	-.0800	.0305	.1313	.1365
157.500	.1451	.1398	.1383	-.0558	-.0539	-.0480	-.0509	-.0174	-.0040	-.0000	-.0002	-.0722	.0034	.1533	.1704
180.000	.1711	.1488	.1465	-.0502	-.0144	-.0289	-.0555	-.0230	9.9990	.0049	-.0049	-.0726	-.0095	.1130	.1294
202.500	.1678	.1544	.1715	-.0394	-.0312	-.0461	-.0468	-.0278	-.0032	-.0055	-.0055	-.0703	.0067	.0705	.1290
225.000	.1529	.1887	.1678	-.0189	-.0159	-.0815	-.0416	-.0349	-.0066	-.0040	-.0040	-.0703	.0067	.0705	.1290
247.500			.1670	.1715	.0116	-.0961	-.0599	-.0394	-.0006	-.0026	-.0026	-.0729	-.0185	.0127	.0571
270.000	.1283	.2196	.3229	.2684	.0500	-.0975	-.0360	-.0472	-.0017	-.0021	-.0021	-.0670	-.0189	.0127	.0571
292.500			.1839	.1966	.0345	-.0983	.0390	-.0346	.0204	.0051	.0051	-.0707	-.0155	.0120	.0500
315.000	.1515	.2133	.1854	.0059	-.0071	-.0630	.0215	-.0171	.0219	.0278	.0278	-.0737	-.0256	.0407	-.0107
337.500	.1760	.1831	.2185	-.0189	-.0148	.0015	.0086	9.9990	.0023	.0011	.0011	-.0748	-.0282	.6571	.6481
360.000	.1723	.1585	.1682	-.0405	-.0256	-.0278	.0086	-.0487	-.0275	-.0379	-.0379	-.0673	-.0457	.0705	.0541

MACH (7) = 2.990 BETA (5) = 8.000 Q = 5.1898 PTA = 30.020 RL = 4.1200 PSA = .82960

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER	X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1741	.1711	.1741	-.0450	-.0454	.0071	-.0405	-.0457	-.0569	-.0562	-.0800	-.0435	.0608	.0738
22.500	.1134	.1201	.1301	-.0498	-.0569	-.0465	-.0547	-.0573	-.0707	-.0506	-.0506	-.0718	-.0304	.0530	.0951
45.000	.0884	.0940	.0955	-.0550	-.0688	-.0543	-.0696	-.0636	-.0703	-.0524	-.0524	-.0823	-.0237	.0444	.0705
67.500			.0765	-.0681	-.0711	-.0524	-.0577	-.0651	-.0450	-.0539	-.0539	-.0797	-.0226	.0809	.0724
90.000	.0746	.0757	.0716	-.0681	-.0714	-.0513	-.0427	-.0413	-.0312	-.0349	-.0349	-.0808	-.0040	.1100	.0865
112.500			.0727	-.0714	-.0737	-.0562	-.0450	-.0241	-.0118	-.0166	-.0166	-.0752	.0004	.1376	.1242
135.000	.0740	.0774	.0841	-.0700	-.0767	-.0570	-.0473	-.0052	-.0030	-.0093	-.0093	-.0852	.0006	.1786	.1786
157.500	.0992	.1070	.1096	-.0655	-.0748	-.0644	-.0513	-.0092	-.0125	-.0155	-.0155	-.0793	.0099	.1596	.1488
180.000	.1478	.1515	.1478	-.0536	-.0291	-.0428	-.0570	-.0186	9.9990	-.0138	-.0138	-.0812	-.0194	.1381	.1161
202.500	.1767	.1868	.1721	-.0610	-.0479	-.0636	-.0317	-.0122	-.0111	-.0280	-.0280	-.0767	.0060	.0955	.1201
225.000	.2238	.2167	.0647	-.0536	-.0611	-.0816	-.0309	-.0216	-.0279	-.0279	-.0279	-.0860	-.0145	.0357	.0930
247.500			.0563	.0642	.0144	-.0923	-.0465	-.0200	-.0319	-.0219	-.0219	-.0838	-.0339	-.0078	.0457
270.000	.2774	.0826	.3284	.1277	.0159	-.0950	-.0387	-.0205	-.0406	-.0235	-.0235	-.0817	-.0393	-.0118	.0513
292.500			.0710	.0826	.0081	-.0659	.0304	-.0037	-.0272	-.0253	-.0253	-.0790	-.0354	-.0127	.0059
315.000	.2640	.2741	.0718	-.0369	-.0406	.0293	.0215	-.0242	-.0242	-.0075	-.0075	-.0864	-.0320	.0632	-.0269
337.500	.2193	.2424	.2018	-.0499	-.0365	.0763	-.0056	9.9990	-.0238	-.0343	-.0343	-.0899	-.0315	.0840	.0439
360.000	.1581	.1711	.1741	-.0450	-.0454	.0071	-.0405	-.0457	-.0569	-.0562	-.0562	-.0800	-.0435	.0608	.0738

MSFC 567(1A32F) TO S3/2 S3/2 03 SRM BOOSTER (R82502)

MACH (0) = 3.500 BETA (1) = -8.000 Q = 5.7192 PTA = 5488 .6570 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER	X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.3517	.3030	.2632	.0029	.0374	.0540	.0033	.0580	.0667	.0729	-.0263	.1308	.4395	.4172
22.500	.3695	.3479	.3279	.0258	.0248	.0440	.0264	.0264	.0427	.0737	.0730	-.0135	.1403	.4808	.4683
45.000	.3814	.3753	.3668	.0263	.0300	.0436	.0415	.0314	.0314	.0554	.0804	-.0459	.1155	.4774	.5322
67.500	.3847	.3939	.3918	.0551	.0426	.0480	.0480	.0480	.0442	.0520	.0564	-.0578	.0882	.4263	.5186
90.000	.3868	.3959	.3959	.0588	.0466	.0483	.0500	.0442	.0442	.0409	.0395	-.0628	.0649	.3421	.4365
112.500	.3667	.3613	.3566	.0426	.0294	.0433	.0392	.0230	.0402	.0280	.0267	-.0574	.0385	.2962	.3557
135.000	.3500	.3354	.3144	.0253	.0240	.0469	.0246	-.0033	.0033	.0030	.0149	-.0601	.0175	.2948	.3127
157.500	.3298	.2838	.2463	-.0050	.0359	.0470	-.0073	-.0165	.0165	9.9990	.0274	-.0408	-.0314	.1191	.1617
180.000	.3106	.2331	.2263	.0081	.0271	.0162	-.0320	.0027	.0308	.0308	.0156	-.0418	-.0002	.0504	.0924
202.500	.2737	.2081	.2372	.0504	.0616	-.0503	-.0347	.0132	.0024	.0020	.0166	-.0598	.0047	.0575	.1072
225.000	.2294	.2145	.8065	.5680	.1005	-.0665	-.0226	.0115	.0024	.0024	.0355	-.0662	-.0094	.0487	.0913
247.500	.2700	.2070	.4351	.3518	.0792	-.0672	-.0080	.0880	.0907	.0907	.0592	-.0462	-.0037	.1123	.1827
270.000	.3153	.2378	.2365	.0176	.0379	.0169	-.0178	9.9990	.1123	.0887	.0687	-.0381	.0876	.3897	.3370
292.500	.2632	.2029	.0374	.0540	.0033	.0580	.0667	.0729	.0729	.0729	.0729	-.0263	.1308	.4395	.4172

MACH (0) = 3.500 BETA (2) = -4.000 Q = 5.7192 PTA = 5488 .6570 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER	X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.2863	.2485	.2140	-.0138	.0148	.0152	.0077	.0422	.0348	.0280	-.0456	.0652	.3851	.2799
22.500	.2872	.2703	.2547	.0041	.0044	.0125	.0054	.0054	.0338	.0264	.0277	-.0294	.0943	.4537	.3323
45.000	.2653	.2813	.2755	.0087	.0000	.0165	.0138	.0138	.0355	.0270	.0277	-.0544	.0710	.4054	.4844
67.500	.2806	.2877	.2833	.0179	.0057	.0162	.0189	.0267	.0267	.0280	.0240	-.0594	.0355	.3170	.3786
90.000	.2789	.2857	.2857	.0209	.0084	.0165	.0206	.0206	.0206	.0202	.0162	-.0612	.0257	.2062	.3151
112.500	.2725	.2674	.2661	.0108	.0054	.0158	.0175	.0108	.0108	.0050	.0077	-.0557	.0260	.1717	.2512
135.000	.2762	.2566	.2437	-.0010	.0003	.0155	-.0010	-.0131	-.0084	-.0084	-.0057	-.0604	.0206	.1715	.2317
157.500	.2688	.2309	.2001	-.0206	.0175	.0128	-.0233	-.0169	9.9990	.0030	.0030	-.0537	-.0202	.0977	.1322
180.000	.2585	.1905	.1800	-.0151	.0098	-.0046	-.0445	.0131	.0061	.0061	-.0073	-.0476	-.0003	.0548	.0795
202.500	.2333	.1670	.2025	.0273	.0448	-.0588	-.0412	-.0226	-.0196	.0040	.0040	-.0632	.0023	.0595	.1004
225.000	.1927	.1863	.1841	.4815	.0508	-.0719	-.0439	-.0249	-.0178	.0200	.0200	-.0686	.0013	.0554	.1024
247.500	.2324	.1865	.2162	.0945	.0636	-.0645	-.0166	.0484	.0305	.0203	.0203	-.0537	-.0169	.2065	.1704
270.000	.2681	.1971	.1910	-.0060	.0178	.0003	.0426	9.9990	.0341	.0202	.0202	-.0608	.0179	.2224	.1704
292.500	.2863	.2485	.2140	-.0138	.0148	.0152	.0077	.0422	.0348	.0280	.0280	-.0456	.0652	.3851	.2799

(RB2S02)

MSFC 567(1A32F) TO S3/2 S3/2 03 SRM BOOSTER

MACH (8) = 3.500 BETA (3) = .000 Q = 5.7192 PTA = 50.033 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1863	.1609	-.0284	-.0037	-.0104	.0209	-.0094	.0003	.0027	-.0448	-.0070	.1448	.1130
22.500	.2067	.1935	.1810	-.0158	-.0023	.0100	.0044	-.0033	-.0117	-.0012	-.0405	.0256	.1748	.1275
45.000	.1872	.1935	.1878	-.0195	-.0195	.0220	.0083	-.0016	-.0144	-.0012	-.0547	.0229	.1937	.1608
67.500	.1878	.1908	.1895	-.0117	-.0199	.0244	.0097	.0044	-.0117	-.0073	-.0598	.0101	.1991	.2417
90.000	.1878	.1908	.1878	-.0111	-.0192	.0149	.0100	.0003	-.0083	-.0117	-.0508	.0182	.1518	.2207
112.500	.1900	.1849	.1859	-.0125	-.0206	.0067	.0138	-.0118	-.0118	-.0128	-.0598	.0240	.1237	.1609
135.000	.2052	.1910	.1812	-.0189	-.0206	-.0149	-.0311	-.0229	-.0142	-.0094	-.0639	.0199	.1257	.1552
157.500	.2258	.1900	.1612	-.0321	.0030	-.0030	-.0035	-.0216	-.0091	-.0033	-.0513	.0030	.1132	.1426
180.000	.2207	.1606	.1501	-.0240	-.0114	-.0223	.0510	-.0240	-.0091	-.0033	-.0513	.0030	.1132	.1426
202.500	.2038	.1376	.1768	.0131	.0270	-.0679	.0483	-.0388	-.0229	.0037	-.0608	.0013	.0595	.0659
225.000	.1660	.1656	.2295	.1802	.0469	-.0794	.0541	-.0398	-.0240	.0110	-.0568	.0128	.0361	.0331
247.500	.1957	.1205	.2461	.2197	.0896	-.0814	-.0530	-.0375	-.0270	.0010	-.0588	.0128	.0361	.0331
270.000	.2231	.1555	.1612	-.0098	.0037	-.0125	.0267	9.9990	.0111	.0270	-.0554	.0202	.1629	.0128
292.500	.2194	.1863	.1609	-.0284	-.0037	-.0104	.0209	-.0094	.0003	.0027	-.0449	-.0070	.1448	.1130

MACH (8) = 3.500 BETA (4) = .000 Q = 5.7192 PTA = 50.033 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1756	.1502	-.0175	-.0117	-.0185	.0254	-.0310	-.0114	-.0239	-.0483	-.0284	.0706	.0544
22.500	.1587	.1529	.1502	-.0212	-.0218	-.0222	-.0090	-.0310	-.0219	-.0263	-.0382	-.0016	.0899	.0906
45.000	.1430	.1416	.1396	-.0223	-.0338	-.0283	.0218	-.0344	-.0273	-.0256	-.0542	.0065	.0661	.1128
67.500	.1284	.1301	.1288	-.0287	-.0388	-.0258	.0185	-.0258	-.0260	-.0178	-.0571	.0037	.0496	.1088
90.000	.1271	.1271	.1271	-.0277	-.0388	-.0277	.0209	-.0182	-.0182	-.0104	-.0571	.0229	.1159	.1230
112.500	.1303	.1262	.1319	-.0331	-.0388	-.0277	.0209	-.0182	-.0182	-.0027	-.0549	.0267	.1101	.1215
135.000	.1497	.1426	.1396	-.0348	-.0395	-.0351	.0398	-.0202	-.0027	.0047	-.0534	.0206	.1359	.1271
157.500	.1788	.1541	.1477	-.0307	-.0043	-.0128	.0486	-.0253	9.9990	.0084	-.0547	.0145	.0882	.1078
180.000	.1815	.1626	.1721	-.0226	-.0175	-.0371	.0378	-.0253	.0067	.0003	-.0368	.0310	.0720	.1098
202.500	.1721	.1857	.1660	-.0209	-.0327	-.0608	.0341	-.0338	-.0094	-.0003	-.0541	.0037	.0578	.1071
225.000	.1474	.2147	.1349	.1065	.0172	-.0659	.0476	-.0324	-.0047	.0087	-.0588	-.0145	.0148	.0439
247.500	.1707	.2174	.1322	.2535	.0547	-.0723	.0185	-.0405	-.0060	.0030	-.0534	-.0139	.0107	.0594
270.000	.1930	.1863	.1625	-.0010	-.0219	-.0595	.0267	-.0098	.0246	.0101	-.0530	-.0121	.0037	.0409
292.500	.1861	.1678	.2065	-.0040	-.0094	-.0162	.0426	9.9990	.0114	.0027	-.0541	-.0223	.0404	.0181
315.000	.1756	.1678	.1756	-.0175	-.0117	-.0185	.0254	-.0310	-.0114	-.0239	-.0483	-.0284	.0706	.0544

TABLATED SOURCE DATA, NSFC TMT 567 (1A32F)

(R82502)

DATE 05 SEP 75

NSFC 567(1A32F) T9 S3/2 53/2 03 SAM BOOSTER

MACH (8) = 3.500 BETA (8) = 8.000 0 = 5.7192 PTA = 50.033 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SAM BOOSTER

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1604	.1702	.1706	-.0240	-.0304	-.0101	-.0183	-.0389	-.0311	-.0389	-.0581	-.0317	.0240	.0652
22.500	.1145	.1182	.1212	-.0266	-.0303	-.0266	-.0269	-.0354	-.0452	-.0313	-.0469	-.0185	.0257	.0619
45.000	.0897	.0941	.0941	-.0314	-.0432	-.0347	-.0449	-.0422	-.0489	-.0358	-.0594	-.0151	.0288	.0399
67.500			.0795	-.0429	-.0462	-.0358	-.0391	-.0439	-.0398	-.0408	-.0618	-.0175	.0650	.0518
90.000	.0754	.0761	.0727	-.0429	-.0479	-.0381	-.0327	-.0354	-.0286	-.0330	-.0621	-.0016	.0913	.0707
112.500			.0761	-.0456	-.0500	-.0398	-.0341	-.0178	-.0114	-.0117	-.0554	.0003	.1411	.1259
135.000	.0785	.0802	.0856	-.0466	-.0533	-.0418	-.0385	-.0104	.0054	.0010	-.0632	-.0043	.1593	.1661
157.500	.1035	.1083	.1093	-.0432	-.0530	-.0466	-.0412	-.0073	-.0060	-.0046	-.0554	-.0100	.1188	.1279
180.000	.1514	.1504	.1464	-.0361	-.0131	-.0287	-.0507	-.0158	9.9990	-.0087	-.0612	-.0172	.1004	.1088
202.500	.1785	.1859	.1707	-.0415	-.0338	-.0517	-.0331	-.0084	-.0098	-.0236	-.0551	.0050	.0770	.1379
225.000	.2311	.2033	.0557	-.0443	-.0487	-.0625	-.0287	-.0186	-.0179	-.0227	-.0645	-.0023	.0476	.0858
247.500			.0402	.0473	-.0098	-.0706	-.0385	-.0202	-.0270	-.0196	-.0645	-.0226	.0010	.0341
270.000	.2874	.0696	.1592	.1369	.0216	-.0710	-.0148	-.0185	-.0311	-.0185	-.0621	-.0219	-.0016	.0453
292.500			.0476	.0720	.0121	-.0510	.0480	-.0010	-.0145	-.0206	-.0605	-.0199	.0040	.0135
315.000	.2705	.2475	.0544	-.0311	-.0365	.0642	.0344	.0226	-.0135	-.0162	-.0669	-.0219	.0355	.0023
337.500	.2201	.2302	.1957	-.0351	-.0284	.0513	.0213	9.9990	-.0091	-.0280	-.0682	-.0256	.0352	.0508
360.000	.1604	.1702	.1706	-.0240	-.0304	-.0101	-.0183	-.0389	-.0311	-.0389	-.0581	-.0317	.0240	.0652

ORIGINAL PAGE IS OF POOR QUALITY

(RB2503)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER

MACH (2) = .500 BETA (1) = -4.000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI														
180.000	.3987	.2906	.0648	-.8919	-.1740	-.0242	-.0005	.0279	9.9990	.0917	-.3280	.1067	.2378	.2710
202.500	.4153	.3212	.0777	-1.0011	-.2001	-.0379	-.0031	.0280	.0618	.0946	-.3925	.0420	.1462	.2224
225.000	.4228	.3706	.1344	-.8688	-.3275	-.0580	-.0026	.0331	.0690	.1033	-.3895	-.0591	.0577	.1851
247.500			.2600	-.8747	-.3951	-.0861	-.0146	.0324	.0811	.1240	-.1632	-.0966	.0392	.1666
270.000	.3538	.3654	.3098	-.8271	-.4259	-.1130	-.0389	.0303	.0960	.1410	-.1273	-.0876	.0550	.1274
292.500			-.0421	-.6720	-.5898	-.0418	.0356	.1166	.1166	.1950	-.3308	-.0760	.0524	.0973
315.000	.2185	.1313	-.1114	-.8256	-.5262	-.1072	-.0358	.0345	.1191	.2016	-.4455	.0069	.1618	-.0073
337.500	.1817	.1044	-.0908	-.8949	-.3476	-.0702	-.0427	9.9990	.1107	.1933	-.3625	.0756	.1750	.0429
360.000	.1729	.0922	-.0801	-.9782	-.2674	-.0163	-.0554	.0331	.1096	.1898	-.3838	.1040	.1758	.0702

MACH (2) = .900 BETA (2) = .000 0 = 7.3630 PTA = 22.008 RL = 6.2700 PSA = 13.033

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI														
.000	.1813	.1078	-.0600	-1.0026	-.2732	-.0490	-.0746	.0140	.0797	.1318	-.3736	.0866	.1520	.0527
22.500	.1708	.1055	-.0559	-1.0383	-.2608	-.0800	-.0758	.0072	.0699	.1190	-.3525	.1013	.1759	.0939
45.000	.1718	.1026	-.0584	-1.0485	-.2662	-.0558	-.0787	-.0099	.0515	.1068	-.3505	.1157	.1635	.0894
67.500			-.0621	-1.0409	-.3180	-.0397	-.0773	-.0214	.0386	.0997	-.3563	.1152	.1496	.0677
90.000	.1950	.1182	-.0449	-1.0447	-.3685	-.0480	-.0773	-.0339	.0214	.0905	-.3504	.1317	.1901	.1260
112.500			-.0182	-1.0252	-.5113	-.0433	-.0705	-.0386	.0062	.0788	-.3339	.1546	.2581	.1988
135.000	.2899	.2075	.0176	-1.0052	-.5113	-.0378	-.0579	-.0386	.0040	.0546	-.3469	.1897	.3342	.2586
157.500	.3546	.2520	.0483	-.9843	-.5737	-.0241	-.0397	-.0142	.0160	.0540	-.3574	.1981	.3481	.3027
180.000	.4113	.3026	.0867	-.9660	-.4989	-.0261	-.0120	.0139	9.9990	.0805	-.3457	.1578	.2913	.3179
202.500	.4476	.3539	.1138	-.9582	-.5193	-.0402	-.0053	.0201	.0513	.0945	-.3685	.1225	.2496	.3158
225.000	.4622	.4085	.1713	-.9213	-.4302	-.0752	-.0090	.0232	.0545	.1129	-.4836	.0129	.1312	.2854
247.500			.2887	-.8196	-.3842	-.1256	-.0245	.0202	.0724	.1495	-.2549	-.0548	.0425	.2150
270.000	.3799	.3825	.3189	-.8212	-.4166	-.1904	-.0678	.0045	.0848	.1719	-.1142	-.0547	.0558	.0850
292.500			-.0174	-.7351	-.6475	-.1839	-.0718	.0110	.0935	.1614	-.2804	-.0527	.0551	.0770
315.000	.2340	.1448	-.0905	-.6943	-.5686	-.1631	-.0620	.0157	.0971	.1547	-.4247	.0014	.1467	-.0162
337.500	.2067	.1235	-.0610	-.9509	-.3778	-.0990	-.0662	9.9990	.0939	.1516	-.3495	.0714	.1731	.0234
360.000	.1813	.1078	-.0500	-1.0026	-.2732	-.0490	-.0746	.0140	.0797	.1318	-.3736	.0866	.1520	.0527

MSFC 567(1A32F) T9 S3/2 S3/2 O3 SRM BOOSTER (R82503)

MACH (3) = 1.050 BETA (2) = .000 Q = 8.4300 PTA = 22.007 RL = 6.5700 PSA = 11.008

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.3289	.2763	.1361	-.6991	-.4003	-.0196	-.0068	-.0531	.1525	.2547	-.3213	.1720	.2641	.1500
22.500	.3217	.2751	.1484	-.7013	-.4619	-.0421	.0013	-.0714	.1460	.2412	-.2917	.2021	.3079	.2149
45.000	.3218	.2705	.1426	-.7107	-.4795	-.0013	.0055	-.0890	.1311	.2279	-.2909	.2159	.2842	.1811
67.500			.1462	-.7026	-.4795	.0312	.0069	-.0901	.1187	.2245	-.2962	.2115	.2560	.1803
90.000	.3514	.2945	.1656	-.6943	-.4475	.0189	.0102	-.0810	.1001	.2216	-.3053	.2247	.2851	.2306
112.500			.1897	-.6801	-.4067	-.0035	.0152	-.0640	.0738	.2149	-.2868	.2379	.3222	.3048
135.000	.4522	.3853	.2300	-.6569	-.3495	-.0324	.0247	-.0393	.0673	.1910	-.2694	.2555	.3932	.3826
157.500	.5085	.4274	.2527	-.6459	-.3350	-.0769	.0271	-.0122	.0651	.1825	-.3013	.2578	.4092	.4261
180.000	.5418	.4757	.2856	-.6293	-.2983	-.0985	.0320	.0146	.0990	.2026	-.2957	.2476	.3735	.4298
202.500	.5562	.5177	.3224	-.6195	-.3473	-.1140	.0253	.0207	.1101	.2110	-.3220	.2268	.3354	.4134
225.000	.5526	.5354	.3698	-.5882	-.4334	-.1367	.0015	.0143	.1089	.2247	-.3861	.1058	.2034	.3518
247.500			.4711	-.4888	-.3544	-.2044	-.0058	.0028	.1280	.2560	-.2681	.0014	.0876	.2811
270.000	.4576	.5163	.4728	-.5249	-.4116	-.2649	-.0058	-.0260	.1417	.2770	-.0512	-.0050	.0916	.1452
292.500			.1576	-.6729	-.5030	.2519	-.0004	-.0109	.1626	.2721	-.2075	.0014	.0916	.1296
315.000	.3395	.3037	.1042	-.7406	-.3833	-.1838	-.0058	-.0154	.1694	.2666	-.3382	.0477	.1880	.0253
337.500	.3157	.2850	.1471	-.7214	-.3114	-.1135	-.0113	.0990	.1682	.2676	-.2780	.1370	.2520	.0797
360.000	.3289	.2753	.1361	-.6981	-.4003	-.0196	-.0068	-.0531	.1525	.2547	-.3213	.1720	.2641	.1500

MACH (3) = 1.050 BETA (3) = 4.000 Q = 8.4300 PTA = 22.007 RL = 6.5700 PSA = 11.008

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.3013	.2714	.1432	-.7160	-.3608	-.0961	-.0474	-.0460	.1520	.2195	-.3226	.1129	.1754	.0579
22.500	.3002	.2639	.1309	-.7134	-.4402	-.1095	-.0378	-.0589	.1539	.2124	-.3159	.1367	.2115	.1291
45.000	.3055	.2612	.1281	-.7253	-.4800	-.0949	-.0180	-.0803	.1391	.2084	-.3272	.1682	.2548	.1557
67.500			.1218	-.7276	-.5077	-.0087	-.0111	-.0866	.1264	.1894	-.3218	.1841	.2287	.1312
90.000	.3088	.2518	.1271	-.7280	-.4953	-.0193	-.0157	-.0963	.1146	.1884	-.3473	.1906	.2311	.1445
112.500			.1418	-.7170	-.4559	-.0654	-.0156	-.0985	.0920	.1980	-.3401	.2051	.2608	.2000
135.000	.3807	.3298	.1748	-.6970	-.3955	-.1059	-.0166	-.0912	.0694	.1504	-.3241	.2268	.3224	.2861
157.500	.4573	.3882	.2148	-.6709	-.3525	-.1716	-.0129	-.0543	.0717	.1375	-.3439	.2503	.4033	.3323
180.000	.4933	.4507	.2915	-.6294	-.2811	-.2114	.0244	.0134	.0990	.1841	-.3203	.2871	.4590	.4836
202.500	.5026	.5021	.3397	-.5982	-.2178	-.2049	.0322	.0437	.1465	.2089	-.3409	.2448	.4232	.4994
225.000	.4895	.5127	.3897	-.5748	-.0448	-.2176	.0029	.0291	.1362	.2185	-.3906	.1223	.2509	.3992
247.500			.4659	-.4812	.0607	-.2990	-.0067	.0033	.1378	.2561	-.3536	.0181	.0912	.2764
270.000	.3430	.5017	.4920	-.5105	-.1167	-.4390	-.0236	-.0443	.1330	.2715	-.0847	.0011	.0874	.0851
292.500			.2379	-.6526	-.2945	-.3087	-.0379	-.0126	.1571	.2485	-.2418	.0070	.0984	.0805
315.000	.2979	.3502	.1775	-.7023	-.1707	-.2373	-.0411	-.0048	.1678	.2368	-.3444	.0273	.1441	-.0135
337.500	.2860	.3195	.1815	-.7011	-.1159	-.1907	-.0485	.0990	.1627	.2256	-.2900	.0915	.1765	.0135
360.000	.3013	.2714	.1432	-.7160	-.3608	-.0961	-.0474	-.0460	.1520	.2195	-.3226	.1125	.1754	.0578

(RB2503)

MSFC 567(1A32F) 19 S3/2 S3/2 03 SRM BOOSTER

MACH (4) = 1.250 BETA (1) = -4.000 Q = 9.2843 PTA = 22.007 RL = 6.6867 PSA = 8.5180

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.2228	.1790	-.4512	-.3358	.0965	-.0356	-.0051	-.0030	-.3020	-.2932	.0981	.3628	.2849
22.500	.2079	.2325	.2070	-.4576	-.3596	.0294	-.0564	-.0305	-.0235	.2604	-.3025	-.0547	.4149	.3436
45.000	.2005	.2556	.2366	-.4470	-.3456	.0182	-.0372	-.0264	-.0439	.2548	-.2804	-.0935	.3950	.3107
67.500	.2801	.3402	.2772	-.4303	-.3139	-.1341	-.0114	.0085	-.0548	.2501	-.2518	.0579	.3219	.2801
90.000	.4084	.4381	.3602	-.4109	-.2774	-.1490	.0077	.0399	-.0455	.2225	-.2613	.1502	.2946	.2750
112.500	.4518	.4710	.3939	-.3909	-.2470	-.1377	.0303	.0536	-.0289	.1704	-.2495	.1818	.3090	.3655
157.500	.4415	.4882	.4023	-.3823	-.2266	-.1210	.0375	.0483	-.0134	.1084	-.2276	.1803	.3749	.3686
180.000	.4663	.5226	.4184	-.3930	-.2286	-.0677	.0251	.0497	9.9990	.0856	-.2123	.1281	.2560	.3252
225.000	.4754	.5709	.4687	-.3561	-.3499	-.0864	-.0010	.0173	.0289	.1369	-.2382	.0741	.1774	.2577
270.000	.4386	.5516	.5888	-.2564	-.3637	-.1786	.0072	.0269	.0480	.1969	-.1806	-.0292	.0875	.2039
292.500	.2910	.2780	.1955	-.4727	-.4208	-.2182	.0385	.0253	.0503	.2530	-.2081	-.0329	.0893	.1986
319.500	.2147	.2393	.1579	-.4883	-.3488	-.1858	.0485	.0182	.3433	.3425	-.2928	.1025	.2548	.1180
352.000	.2445	.2228	.1780	-.4512	-.3358	.0965	-.0356	-.0051	-.0030	.3020	-.2932	.0981	.3628	.2849

MACH (4) = 1.250 BETA (2) = .000 Q = 9.2843 PTA = 22.007 RL = 6.6867 PSA = 8.5180

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1853	.1990	-.4334	-.2995	.0069	-.0425	-.0242	.0227	.2206	-.2826	.1429	.3147	.1779
22.500	.0377	.1953	.2015	-.4280	-.3074	-.0047	-.0828	-.0217	-.0084	.1765	-.2777	.1305	.3966	.2714
45.000	.0265	.1991	.1966	-.4281	-.3183	.0111	-.0728	-.0221	-.0387	.1475	-.2760	.0993	.4157	.2700
67.500	.1309	.2066	.2065	-.4343	-.3216	-.0441	-.0496	-.0092	-.0550	.1500	-.2771	.1388	.2849	.1958
90.000	.2890	.3331	.2341	-.4247	-.3129	-.1144	-.0333	-.0021	-.0624	.1425	-.2679	.1684	.2553	.2117
112.500	.3685	.3947	.2695	-.4142	-.2943	-.1532	-.0180	-.0092	-.0579	.1055	-.2735	.1888	.2850	.2639
157.500	.4086	.4682	.3448	-.3975	-.2695	-.1145	.0073	-.0221	-.0346	.0310	-.2434	.2042	.3440	.3323
180.000	.4368	.5234	.3915	-.3844	-.2478	-.0728	.0199	-.0300	-.0142	.0124	-.2446	.1925	.3240	.3685
202.500	.4346	.5745	.4262	-.3637	-.2455	-.0574	-.0037	-.0017	-.0290	.0923	-.2362	.1123	.2466	.3564
225.000	.3390	.5377	.4854	-.3367	-.3496	-.1090	-.0191	-.0070	.0312	.1249	-.2433	.0183	.1244	.2812
270.000	.1409	.2520	.6005	-.2350	-.3739	-.1959	-.0178	-.0025	.0469	.1709	-.1297	-.0245	.0659	.2125
292.500	.1066	.2235	.5848	-.2607	-.4294	-.2286	-.0112	-.0024	.0524	.2145	-.1123	-.0224	.0783	.1682
315.000	.1092	.1853	.1847	-.4754	-.4396	-.2433	.0020	-.0053	.0569	.2525	-.2487	.0008	.0682	.1435
337.500	.1092	.1853	.1832	-.4660	-.3232	-.0939	-.0117	9.9990	.0292	.2618	-.2705	.1378	.3343	.0745
360.000	.1092	.1853	.1990	-.4334	-.2995	.0069	-.0425	-.0242	.0227	.2206	-.2826	.1429	.3147	.1779

ORIGINAL PAGE IS OF POOR QUALITY

(R82503)

MSFC 567(11A32F) TO 53/2 53/2 03 SRM BOOSTER

MACH (4) = 1.250 BETA (3) = 4.000 0 = 9.2843 PTA = 22.007 RL = 6.6867 PSA = 8.5180

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1536	.2411	.1832	-.4500	-.2800	.0411	-.0042	-.0559	.0282	.2040	-.3026	.1247	.2499	.0976
22.500	.1176	.2249	.1877	-.4424	-.2838	-.0238	-.0793	-.0559	.0041	.1793	-.2975	.1312	.2432	.1535
45.000	.0618	.2183	.1821	-.4504	-.3011	.0024	-.0817	-.0525	-.0434	.1554	-.3009	.1301	.2549	.1798
67.500			.1948	-.4255	-.3358	.0208	-.0692	-.0513	-.0634	.1284	-.2772	.1381	.2548	.1711
90.000	.0688	.2074	.2015	-.4519	-.3502	.0157	-.0597	-.0393	-.0751	.1344	-.3044	.1439	.2277	.1702
112.500			.2230	-.4451	-.3417	-.0764	-.0572	-.0385	-.0839	.1400	-.3455	.1626	.2778	.2244
135.000	.2459	.2909	.2630	-.4341	-.3127	-.1251	-.0521	-.0534	-.0813	.0787	-.3155	.1882	.3248	.2861
157.500	.3429	.3648	.3070	-.4144	-.2692	-.1081	-.0442	-.0492	-.0580	.0120	-.3231	.1861	.3490	.3794
180.000	.3493	.4215	.3614	-.3948	-.2375	-.0939	-.0563	-.0125	9.9990	.0129	-.3080	.1969	.4002	.4540
202.500	.3885	.4928	.4127	-.3720	-.2342	-.0806	-.0602	.0195	.0207	.0679	-.3257	.1404	.3583	.4541
225.000	.3917	.5285	.4813	-.3349	-.2832	-.1056	-.0614	.0215	.0269	.1094	-.3869	.0283	.1854	.3509
247.500	.2563	.5944	.5933	-.2477	-.2739	-.1655	-.0676	-.0005	.0298	.1615	-.2145	-.0325	.0657	.2450
270.000			.6036	-.2573	-.3469	-.2139	-.0722	-.0280	.0357	.2088	-.1772	-.0301	.0791	.1245
292.500			.2697	-.4787	-.4020	-.2160	-.0567	-.0380	.0545	.2305	-.3105	-.0196	.0817	.1056
315.000	.1180	.3108	.1939	-.4807	-.4202	-.1421	-.0312	-.0470	.0550	.2381	-.2997	.0395	.2191	-.0271
337.500	.0746	.2680	.2224	-.4486	-.2812	-.0965	-.0180	9.9990	.0403	.2266	-.2981	.1037	.2538	.0245
360.000	.1536	.2411	.1932	-.4500	-.2800	.0411	-.0042	-.0559	.0282	.2040	-.3026	.1247	.2499	.0976

MACH (5) = 1.480 BETA (1) = 4.000 0 = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 6.3457

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1062	.2527	.2315	-.2727	-.2420	.0743	-.0334	.0278	.0351	.2617	-.1775	-.1706	.2728	.3846
22.500	.1229	.1788	.2458	-.2825	-.2188	.0236	-.0077	.0559	.0151	.2254	-.1812	-.1151	.2738	.4220
45.000	.1706	.1780	.2441	-.2718	-.2123	-.0869	.0151	-.0150	-.0102	.2143	-.1575	-.0129	.3838	.3606
67.500			.2550	-.2636	-.1987	-.1273	.0273	-.0269	-.0105	.1653	-.1046	.0380	.4807	.2297
90.000	.2771	.2865	.3155	-.2448	-.1762	-.1264	.0082	.0000	.0055	.0375	-.0774	.0943	.4265	.3285
112.500			.3695	-.2241	-.1449	-.0742	-.0424	.0339	.0175	.0424	-.1599	.1715	.3128	.3556
135.000	.3948	.4136	.4128	-.2113	-.1232	-.0807	-.0317	.0384	.0176	.0424	-.1373	.2084	.3290	.3470
157.500	.3608	.4750	.4591	-.1917	-.1081	-.0766	.0033	.0424	.0204	.0424	-.1173	.1741	.3444	.3673
180.000	.3544	.4622	.4841	-.1904	-.1054	-.0437	.0252	.0191	9.9990	.0791	-.1148	.1378	.2623	.3463
202.500	.3609	.5300	.5243	-.1819	-.1239	-.0597	.0272	.0161	.0165	.1076	-.1103	.0982	.1653	.2564
225.000	.3380	.6620	.5856	-.1593	-.2370	-.0866	.0178	.0133	.0088	.1330	-.1319	.0448	.1175	.2053
247.500			.7195	-.0613	-.2647	-.1691	.0215	.0293	.0187	.1865	-.0889	.0191	.1306	.2346
270.000	.2368	.6605	.7416	-.0506	-.3348	-.1885	.0255	.0427	.0251	.2482	-.0971	.0130	.1233	.2459
292.500			.3609	-.3050	-.3805	-.2376	.0370	.0652	.0399	.3138	-.1572	.0616	.1310	.2339
315.000	.1394	.3791	.2174	-.3425	-.3674	-.2401	.0240	.0676	.0354	.3236	-.1632	.1048	.2771	.0491
337.500	.1049	.2981	.2421	-.3066	-.2764	-.0992	-.0089	9.9990	.0220	.2907	-.1566	.0167	.3397	.3703
360.000	.1052	.2527	.2315	-.2727	-.2420	.0743	-.0334	.0278	.0351	.2617	-.1775	-.1706	.2728	.3846

(R82S03)

MACH (5) = 1.480 BETA (2) = .000 Q = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 6.3-57

DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.0550	.1840	.2252	-.2878	-.2543	.0827	-.1025	.0689	.0117	.2313	-.1794	-.0491	.3193	.3001
22.500	.0481	.1187	.2281	-.2947	-.2323	.0513	-.0747	.0607	-.0025	.1709	-.1822	-.1189	.3226	.3597
45.000	.0746	.1191	.2000	-.2925	-.2259	.0399	-.0462	.0199	-.0155	.1383	-.1810	-.0413	.4095	.3513
67.500	.1505	.1905	.2207	-.2763	-.2094	-.1278	-.0041	-.0576	-.0208	.1003	-.1535	.0660	.3603	.2575
90.000	.2382	.3210	.2886	-.2561	-.1924	-.1250	.0000	-.0445	-.0290	.0342	-.1520	.1939	.2650	.2609
112.500	.2748	.3948	.4214	-.2087	-.1640	-.1167	-.0261	-.0375	-.0330	-.0028	-.1351	.2081	.3322	.3399
135.000	.3444	.4346	.4820	-.1943	-.1368	-.0743	-.0257	-.0245	-.0225	.0150	-.1245	.1823	.2553	.3757
157.500	.3507	.5055	.5239	-.1943	-.1193	-.0596	.0150	.0003	.0038	.0967	-.1291	.1749	.2174	.3273
180.000	.3311	.6689	.5917	-.1572	-.2185	-.0915	.0093	-.0012	.0029	.1281	-.1175	.0350	.1109	.23-5
202.500	.2111	.6664	.7220	-.0584	-.2539	-.1658	-.0025	.0129	.0121	.1774	-.0591	.0032	.0544	.2039
225.000	.1086	.3897	.3455	-.3102	-.3915	-.2194	-.0347	.0489	.0207	.2733	-.0588	.0019	.0500	.1757
247.500	.0913	.2158	.2030	-.3490	-.3821	-.1872	-.0593	.0571	.0167	.2859	-.1603	.0774	.2105	.0440
270.000	.0550	.1940	.2252	-.2878	-.2543	.0827	-.1025	.0689	.0117	.2313	-.1794	-.0491	.3193	.3001

MACH (5) = 1.460 BETA (3) = 4.000 Q = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 6.3-57

DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.0215	.1289	.2097	-.2943	-.2311	.1158	-.1445	.0264	-.0094	.2085	-.1771	.1244	.2759	.193-
22.500	.0138	.0709	.1788	-.2835	-.2059	.0477	-.1070	.0293	-.0172	.1673	-.1816	.1132	.2655	.2425
45.000	.0317	.0529	.1337	-.2963	-.2020	.0439	-.0547	.0219	-.0274	.1300	-.1796	.0921	.2975	.2713
67.500	.0932	.0979	.1070	-.3126	-.2304	-.0351	-.0274	-.0016	-.0319	.0972	-.1553	.1296	.2552	.2423
90.000	.1666	.2377	.2827	-.2970	-.2470	-.0571	-.0147	-.0265	-.0225	.0965	-.1691	.1705	.2552	.2423
112.500	.2147	.3487	.3527	-.2652	-.2174	-.1642	-.0319	-.0555	-.0225	.0932	-.1572	.1819	.2750	.2277
135.000	.2914	.3655	.4403	-.2080	-.1317	-.0550	-.0570	-.0350	-.0350	.0990	-.0426	.2168	.3377	.3485
157.500	.3025	.5553	.5786	-.1536	-.1986	-.0507	-.0221	.0064	-.0021	.1222	-.1523	.0245	.192	.3829
180.000	.2093	.6464	.7150	-.0616	-.3028	-.1695	-.1081	.0094	.0041	.2057	-.0990	.9930	.9930	.9930
202.500	.1007	.3118	.3542	-.3028	-.3191	-.1942	-.1354	.0204	.0099	.2465	-.1764	.0245	.0739	.1718
225.000	.0784	.1274	.2350	-.3290	-.2310	-.1363	-.1596	.0285	.0113	.2844	-.1939	.0975	.3624	.0642
247.500	.0215	.1289	.2097	-.2943	-.2311	.1158	-.1445	.0264	-.0094	.2085	-.1771	.1244	.2759	.193-

1982503

MSFC 567(1A32F) T9 53/2 53/2 03 SRM BOOSTER

MACH (6) = 1.960 BETA (1) = -.4000 Q = 10.259 PTA = 28.036 RL = 7.3800 PSA = 3.8317

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9635
PHI														
.000	.1268	.1347	.1580	-.0342	-.0866	.0778	.0813	.0108	.0238	.0756	-.0435	.0693	.3629	.0715
22.500	.1671	.1938	.1628	-.1549	-.0935	-.0031	.0481	.0100	.0221	.0598	-.0265	.1515	.4973	.1361
45.000	.2131	.2041	.1978	-.1409	-.1107	-.0307	-.0424	.0183	.0232	.0459	-.0068	.1657	.5756	.3152
67.500	.2504	.2304	.2304	-.1182	-.1027	-.0480	-.0455	.0243	.0123	.0262	-.0374	.1575	.4338	.3799
90.000	.2899	.2699	.2699	-.0951	-.0793	-.0483	-.0382	.0017	.0259	.0293	-.0750	.2410	.3522	.3611
112.500	.3427	.3127	.3127	-.0718	-.0536	-.0042	-.0242	-.0035	.0397	.0526	-.0731	.2318	.3385	.4145
135.000	.3938	.3583	.3583	-.0566	-.0223	.0149	-.0174	.0255	.0469	.0327	-.1000	.2780	.3369	.4725
157.500	.3565	.3656	.3656	-.0505	.0206	.0157	-.0211	.0496	.0461	.0435	-.1030	.1935	.3144	.3553
180.000	.3351	.3456	.3456	-.0224	.0496	.0202	-.0242	.0534	.0461	.0435	-.1030	.1935	.3144	.3553
202.500	.3002	.3505	.3505	.0515	.0429	-.0103	-.0373	.0621	.0478	.0599	-.0978	.1317	.2295	.2529
225.000	.2977	.3789	.3789	.0870	-.0443	-.0862	.0206	.0678	.0440	.0779	-.1161	.0559	.2100	.2193
247.500	.1692	.3219	.3219	.1802	-.0896	-.1686	.0405	.0601	.0399	.1093	-.0657	.0440	.1509	.2432
270.000	.6293	.0201	.1913	-.1773	.0534	.0594	.0440	.1424	.0724	.0518	-.0745	.1175	.1175	.1175
292.500	.1050	.1784	.4056	-.0993	-.1940	-.1809	.0511	.0530	.0402	.1144	-.0735	.0442	.3051	.4031
315.000	.1058	.1473	.2819	-.0940	-.1249	-.1305	.0451	.0451	.0354	.0881	-.0710	-.0454	.2715	.4031
337.500	.1268	.1347	.1980	-.0942	-.0886	.0778	.0513	.0108	.0235	.0756	-.0435	.0693	.3629	.0715

MACH (6) = 1.960 BETA (2) = .0000 Q = 10.259 PTA = 28.036 RL = 7.3800 PSA = 3.8317

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9635
PHI														
.000	.0744	.1079	.1594	-.1094	-.0981	-.0033	.0101	.0327	.0139	.0562	-.0320	.0125	.2501	.1973
22.500	.1055	.1122	.1160	-.1709	-.0989	-.0516	.0267	.0008	.0226	.0619	-.0568	.0525	.3774	.1756
45.000	.1297	.1428	.1327	-.1695	-.1240	-.0454	.0379	-.0161	.0315	.0379	-.1049	.0544	.4502	.2432
67.500	.1717	.1560	.1717	-.1560	-.1323	-.0582	-.0254	-.0079	.0293	.0225	-.0722	.0436	.4743	.2731
90.000	.2109	.2071	.2109	-.1364	-.1175	-.0712	-.0516	.0000	.0123	.0374	-.0558	.1757	.2969	.2432
112.500	.2469	.2469	.2469	-.1148	-.0735	-.0535	-.0700	.0003	-.0004	.0000	-.0212	.2588	.3183	.3149
135.000	.2709	.2785	.2849	-.1016	-.0512	-.0372	-.0696	-.0135	.0037	-.0341	-.0711	.1329	.2221	.2543
157.500	.3029	.3120	.3384	-.0790	-.0045	-.0184	-.0455	.0044	.0131	-.0304	-.0547	.1517	.2552	.2727
180.000	.3136	.3379	.4038	-.0206	.0417	.0169	-.0293	.0383	.0189	.0189	-.0810	.1735	.2652	.2162
202.500	.2875	.3813	.5292	.0450	.0525	-.0157	.0022	.0477	.0360	.0330	-.0237	.1529	.2511	.2522
225.000	.2456	.3570	.7786	.1043	-.0321	-.1003	.0236	.0541	.0357	.0513	-.1020	.0468	.1024	.1383
247.500	.1572	.2847	.9829	.2003	-.0825	-.1711	.0285	.0556	.0293	.1122	-.0270	.0195	.0195	.0195
270.000	.6112	.2394	.10208	.2394	-.1276	-.1902	.0309	.0527	.0187	.1674	-.0314	.0195	.0195	.0195
292.500	.6112	-.0309	-.1994	-.1855	.0262	.0572	.0259	.1815	.1815	-.0540	.0821	.1533	.1533	.1533
315.000	.0858	.1656	.3979	-.1024	-.2026	-.1915	.0153	.0530	.0244	.1626	-.0710	.0523	.0523	.0523
337.500	.0756	.1189	.2581	-.1031	-.1415	-.1476	.0040	.0450	.0176	.1217	-.0985	.0523	.0523	.0523
360.000	.0744	.1079	.1594	-.1094	-.0981	-.0033	.0101	.0327	.0139	.0562	-.0320	.0125	.2501	.1973

(R82503)

MSFC 567(1A32F) TB 53/2 53/2 03 SRM BOOSTER

MACH (6) = 1.860 BETA (3) = 4.000 Q = 10.259 PTA = 28.006 RL = 7.0800 PSA = 3.6317

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.3368	.0635	.0859	-.1521	-.1162	.0556	-.0402	.0160	-.0187	.1169	-.1078	-.0459	.2171	.2326
22.500	.0568	.0594	.0712	-.1848	-.1029	-.0217	-.0145	.0096	-.0084	.0772	-.1194	-.0069	.2331	.2429
45.000	.0806	.0723	.0769	-.1871	-.1354	-.0575	.0119	-.0186	.0021	.0410	-.1210	.0338	.3118	.2272
67.500			.0981	-.1794	-.1408	-.0811	.0270	-.0232	.0031	.0096	-.1193	.0504	.3519	.2288
90.000	.1260	.1177	.1260	-.1699	-.1427	-.0845	-.0125	-.0187	.0009	-.0032	-.0954	.1411	.2861	.1920
112.500			.1614	-.1594	-.1273	-.0941	-.0802	-.0111	-.0129	-.0043	-.0435	.1641	.2536	.2430
135.000	.1995	.1984	.2093	-.1322	-.0985	-.0807	-.0544	-.0240	-.0310	-.0342	-.0872	.1553	.3968	.3137
157.500	.2397	.2427	.2683	-.1052	-.0577	-.0581	-.0672	-.0310	-.0283	-.0310	-.0857	.1489	.2853	.3140
180.000	.2504	.3057	.3356	-.0653	.0097	-.0106	-.0042	-.0121	.9.9990	.0029	-.0953	.1513	.2733	.3457
202.500	.2561	.3298	.4156	.0263	.0270	-.0267	.0428	.0108	.0037	.0364	-.1161	.0812	.2053	.3022
225.000	.2513	.3254	.6379	.1081	-.0299	-.0827	.0643	.0266	-.0016	.0791	-.1139	.0308	.0830	.2202
247.500			.9691	.1828	-.0923	-.1510	.0444	.0217	-.0133	.1338	-.0261	.0127	.0730	.1948
270.000	.2029	.2165	.9992	.2297	-.1258	-.1685	.0160	.0055	-.0337	.1882	-.0291	.0070	.0632	.1894
292.500			.6214	-.0218	-.2014	-.1882	-.0090	.0165	-.0199	.2039	-.0961	.0135	.0721	.1266
315.000	.1113	.1299	.3662	-.0945	-.1987	-.1680	-.0451	.0247	-.0126	.2025	-.1041	.0372	.2565	.0692
337.500	.0817	.1043	.2004	-.1007	-.1509	-.0585	-.0604	.9.9990	-.0200	.1688	-.1150	-.0046	.3153	.2297
360.000	.0368	.0655	.0859	-.1521	-.1162	.0598	-.0402	.0160	-.0187	.1169	-.1078	-.0459	.2171	.2326

MACH (7) = 2.990 BETA (1) = -4.000 Q = 5.1887 PTA = 30.014 RL = 4.1200 PSA = .82967

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1823	.1469	.1238	-.0558	-.0267	.0146	-.0439	.0116	.0172	.0168	-.0278	.0517	.3575	.3168
22.500	.2155	.2061	.1987	-.0296	-.0322	.1207	-.0277	-.0176	-.0102	.0035	.3225	.3255	.2763	.2718
45.000	.4069	.4949	.2419	-.0173	-.0244	.0296	-.0203	-.0247	-.0240	.0043	-.0574	.1429	.2595	.3381
67.500			.2755	-.0047	-.0118	.0172	-.0125	-.0174	-.0275	-.0043	-.0585	.1596	.2517	.3337
90.000	.1201	-.0301	.3061	.0071	-.0017	.0108	.0026	-.0081	-.0181	-.0062	-.0116	.2551	.2390	.2555
112.500			.3277	.0137	.0059	.0129	.0118	-.0056	-.0093	.0036	-.0775	.0737	.2904	.3348
135.000	.3590	.3415	.3333	.0138	.0235	.0243	.0085	-.0051	.0008	.0131	.0071	-.0726	.2643	.3106
157.500	.4176	.3956	.1063	-.0416	.3393	.2558	.1335	-.0703	.0149	.1861	.1689	.2025	.0111	.0208
180.000	.3545	.3154	.2968	-.0019	.0479	.0569	-.0175	-.0082	.9.9990	.0308	-.0719	.0125	.2238	.2469
202.500	.3370	.2752	.2834	.0113	.0433	.0429	-.0355	-.0005	.0292	.0210	-.0552	.0149	.1817	.2451
225.000	.2800	.2364	.3296	.0807	.1135	-.0309	-.0384	.0137	.0174	.0193	-.0764	.0195	.1395	.1597
247.500			.3802	.3932	.0912	-.0950	-.0320	.0225	.0189	.0256	-.0801	.0219	.0755	.1675
270.000	.1713	.1922	.7858	.4736	.0705	-.1081	-.0303	.058	.0173	.0414	-.0693	.0103	.0576	.1582
292.500			.4346	.2022	-.0104	-.1095	-.0175	.0282	.0189	.0412	-.0637	.0062	.0420	.0517
315.000	.1359	.1124	.1604	.0230	-.0354	-.1099	-.0343	.0230	.0159	.0293	-.0507	.0035	.2.29	.0415
337.500	.1549	.1113	.1264	-.0257	-.0410	-.0711	-.0402	.9.9990	.0185	.0219	-.0454	.0278	.2312	.2439
360.000	.1823	.1469	.1238	-.0558	-.0267	.0146	-.0439	.0116	.0172	.0168	-.0278	.0317	.3575	.3168

MACH (7) = 2.990 BETA (2) = .000 Q = 5.1887 PTA = 30.014 RL = 4.1200 PSA = .82967

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER (R82S03)

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.0949	.0923	-.0641	-.0414	-.0585	-.0272	-.0156	.0005	-.0089	-.0396	.0193	.2083	.1635
22.500	.1227	.1111	.1026	-.0621	-.0476	-.0405	-.0364	-.0133	.0071	-.0062	-.0357	.0608	.3065	.2401
45.000	.1354	.1346	.1286	-.0506	-.0368	-.0364	-.0178	.0034	-.0002	-.0503	.0632	.3079	.3180	.3180
67.500	.1547	.1528	.1497	-.0528	-.0365	-.0372	-.0383	-.0312	-.0148	-.0043	-.0551	.0688	.2476	.2354
90.000	.1771	.1820	.1793	-.0483	-.0379	-.0450	-.0435	-.0297	-.0047	-.0677	.1973	.1812	.2226	.2226
112.500	.2069	.2069	.2069	-.0375	-.0442	-.0357	-.0342	-.0461	-.0364	-.0166	-.0734	.0953	.1977	.2349
135.000	.2364	.2371	.2424	-.0271	-.0334	-.0299	-.0271	-.0401	-.0267	-.0215	-.0827	.0845	.1568	.2354
157.500	.2849	.2770	.2711	-.0181	-.0122	-.0148	-.0248	-.0308	-.0125	-.0118	-.0552	.0401	.2099	.2424
180.000	.3229	.2901	.2789	-.0163	.0299	.0455	.0316	-.0181	.99990	.0213	-.0722	-.0010	.2170	.2435
202.500	.3128	.2576	.2740	.0041	.0317	.0310	.0342	-.0070	.0280	.0127	-.0636	.0079	.1935	.2457
225.000	.2614	.2211	.3281	.0530	.1130	-.0368	-.0349	.0038	.0276	.0108	-.0875	.0142	.1305	.1633
247.500	.1469	.1917	.6901	.4109	.0608	-.1147	-.0342	-.0103	.0187	.0168	-.0569	.0034	.0477	.1391
292.500	.1020	.0886	.2297	.1764	-.0241	-.1188	-.0275	.0011	.0161	.0190	-.0562	-.0094	.0325	.0720
315.000	.1104	.0767	.1522	-.0019	-.0481	-.1185	-.0395	.0066	.0155	.0096	-.0558	-.0073	.1436	.0034
337.500	.1165	.0949	.0962	-.0483	-.0653	-.0856	-.0386	.99990	.0131	.0071	-.0536	-.0129	.1510	.1320
360.000	.0900	.0871	.0523	-.0641	-.0414	-.0585	-.0272	-.0156	.0085	-.0789	-.0396	.0193	.2083	.1635

MACH (7) = 2.990 BETA (3) = 4.000 Q = 5.1887 PTA = 30.014 RL = 4.1200 PSA = .82967

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.0900	.0871	.0637	-.0503	-.0156	-.0298	-.0227	-.0197	-.0257	-.0480	-.0107	.1462	.1227
22.500	.0793	.0793	.0774	-.0512	-.0490	.0091	-.0296	-.0311	-.0214	-.0281	-.0524	.0146	.1588	.1137
45.000	.0942	.0905	.0886	-.0509	-.0583	-.0088	-.0225	-.0221	-.0135	-.0176	-.0568	.0308	.1742	.1601
67.500	.1148	.1161	.1011	-.0599	-.0814	-.0181	-.0398	-.0188	-.0185	-.0107	-.0542	.0366	.1747	.1840
90.000	.1148	.1161	.1157	-.0585	-.0822	-.0288	-.0432	-.0291	-.0220	-.0087	-.0544	.0547	.1437	.1455
112.500	.1857	.1845	.1381	-.0550	-.0588	-.0375	-.0502	-.0427	-.0248	-.0114	-.0749	.0688	.1224	.1470
135.000	.2212	.2148	.2215	-.0451	-.0522	-.0494	-.0514	-.0488	-.0373	-.0242	-.0802	.0709	.1569	.1629
157.500	.2573	.2714	.3035	.0041	.0193	.0097	-.0345	.0183	.99990	.0062	-.0716	.0314	.1632	.2115
180.000	.2245	.2594	.2491	-.0108	-.0168	-.0373	-.0265	.0260	.0141	-.0099	.1667	.1254	.2330	.2233
202.500	.1596	.1339	.1603	.1459	.0586	-.0856	-.0047	.0172	.0086	-.0152	-.0597	-.0056	.0155	.0796
225.000	.0144	-.0826	.3523	.2520	.0485	-.0984	.0093	.0028	-.0114	-.0062	-.0327	-.0137	.0039	.0769
247.500	.0968	.1253	.0757	.1321	-.0250	-.1002	.0047	.0036	-.0142	-.0011	.99990	.99990	.99990	.99990
292.500	.1180	.0842	.1122	-.0714	-.0614	-.0830	-.0193	.0030	-.0133	-.0070	-.0577	-.0093	.1373	-.0242
315.000	.0900	.0871	.0056	-.0763	-.0108	-.0029	-.0163	.99990	-.0204	-.0662	.99990	.99990	1.3114	.0444
337.500	.0900	.0871	.0941	-.0637	-.0503	-.0156	-.0298	-.0227	-.0197	-.0257	-.0480	-.0107	.1462	.1227

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER (R82503)

MACH (8) = 3.480 BETA (1) = -4.000 Q = 5.6920 PTA = 49.739 RL = 5.3033 PSA = .67267

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9655
PHI														
.000	.1981	.1575	.1273	-.0374	-.0093	.0118	-.0347	.0051	.0163	.0177	-.0327	.0738	.3633	.3515
22.500	.2074	.1854	.1702	-.0253	-.0185	.0081	-.0182	-.0063	-.0006	.0102	-.0259	.0908	.4827	.4495
45.000	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	.0941	.2994	.3742
67.500	.2467	.0055	-.0025	.0343	-.0045	-.0126	-.0201	-.0008	-.0503	.1164	-.2301	.3282	.2301	.3282
90.000	.2754	.2794	.2798	.0156	.0031	.0294	.0000	-.0050	-.0182	-.0087	-.0544	.1204	.2277	.3173
112.500	.3096	.0250	.0105	.0193	.0075	.0017	-.0090	-.0043	-.0544	.0788	.2202	.3099	.2642	.3214
135.000	.3315	.3305	.0318	.0318	.0220	.0200	.0047	-.0019	.0047	.0379	.2642	.3082	.2646	.3082
157.500	.3716	.3562	.3451	.0325	.0244	.0227	.0159	.0017	.0024	.0122	-.0418	.0122	.2646	.3082
180.000	.3760	.3297	.3014	.0131	.0489	.0546	-.0078	-.0078	9.9990	.0296	-.0456	.0056	.1837	.2395
202.500	.3632	.2895	.2709	.0107	.0361	.0563	-.0270	-.0031	.0279	.0192	-.0490	.0080	.1717	.2390
225.000	.3095	.2351	.2922	.0600	.1469	-.0115	-.0321	.0070	.0151	.0178	-.0571	.0090	.1476	.1530
247.500	.1920	.1592	.3601	.2819	.1176	-.0730	-.0297	.0128	.0165	.0185	-.0512	.0162	.0862	.1531
270.000	.6465	.4679	.0835	.4679	.0990	-.0835	-.0392	.0152	.0158	.0273	-.0487	.0168	.0739	.1540
292.500	.2642	.2175	.0212	.2175	.0212	-.0862	-.0291	.0205	.0165	.0269	-.0463	.0097	.0448	.0428
315.000	.1585	.1054	.1267	.0172	-.0084	-.0845	-.0405	.0192	.0169	.0185	-.0439	.0108	.2093	.0459
337.500	.1724	.1129	.1180	-.0185	-.0213	-.0520	-.0459	9.9990	.0165	.0202	-.0382	.0303	.2297	.2388
360.000	.1981	.1575	.1273	-.0374	-.0093	.0118	-.0347	.0051	.0163	.0177	-.0327	.0738	.3633	.3515

MACH (8) = 3.480 BETA (2) = .000 Q = 5.6920 PTA = 49.739 RL = 5.3033 PSA = .67267

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9655
PHI														
.000	.1353	.1089	.0947	-.0425	-.0209	-.0412	-.0232	-.0107	.0078	.0014	-.0253	.0328	.2013	.1790
22.500	.1377	.1252	.1103	-.0354	-.0280	-.0242	-.0178	-.0104	.0095	.0031	-.0151	.0572	.2412	.2121
45.000	.1475	.1445	.1340	-.0344	-.0361	-.0236	-.0185	-.0144	.0041	.0058	-.0324	.0616	.2169	.2554
67.500	.1827	.1667	.1637	-.0256	-.0337	-.0246	-.0212	-.0182	-.0080	.0010	-.0358	.0639	.1695	.1972
90.000	.2101	.2022	.2022	-.0226	-.0290	-.0246	-.0242	-.0276	-.0222	-.0023	-.0462	.0839	.1512	.1698
112.500	.2429	.2460	.2473	-.0440	-.0171	-.0141	-.0148	-.0270	-.0215	-.0141	-.0588	.0677	.1857	.1854
135.000	.3001	.2920	.2818	.0051	-.0043	-.0043	-.0100	-.0185	-.0090	-.0040	-.0462	.0200	.1911	.2314
157.500	.3474	.3102	.2845	.0027	.0365	.0592	-.0175	-.0087	9.9990	.0261	-.0513	-.0009	.2067	.2344
180.000	.3400	.2717	.2571	.0068	.0318	.0494	-.0222	-.0040	.0247	.0196	-.0418	.0112	.1857	.2135
202.500	.2913	.2219	.2923	.0426	.0941	-.0188	-.0229	.0051	.0193	.0213	-.0574	.0115	.1462	.1282
225.000	.1729	.1560	.3065	.2077	.1106	-.0723	-.0124	-.0041	.0234	.0179	-.0598	.0535	.1120	.1116
247.500	.1803	.1847	.1803	.0934	.0934	-.0838	-.0134	-.0134	.0223	.0183	-.0330	.0166	.0524	.1116
270.000	.1282	.0863	.1282	.0095	-.0188	-.0875	-.0165	.0024	.0206	.0118	-.0401	.0064	.1543	.0313
292.500	.1333	.0856	.0947	-.0300	-.0374	-.0642	-.0344	9.9990	.0146	.0125	-.0415	.0031	.1529	.1519
315.000	.1353	.1089	.0947	-.0425	-.0209	-.0412	-.0232	-.0107	.0078	.0014	-.0253	.0328	.2013	.1790

ORIGINAL PAGE IS OF POOR QUALITY

TABLULATED SOURCE DATA, MSFC THT 567 (1A3ZF)

(R82503)

SRM BOOSTER

MSFC 567(1A3ZF) TO 53/2 53/2 03

PTA

RL

PSA

.67267

DATE 05 SEP 75

MACH (0) = 3.480 BETA (3) = 4.000 Q = 5.6820 PTA = 49.739 RL = 5.3033 PSA = .67267

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5468	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1017	.1014	.0929	-.0385	-.0304	-.0084	-.0138	-.0273	-.0077	-.0172	-.0318	-.0115	.1185	.1243
22.500	.0934	.0878	.0842	-.0290	-.0297	.0514	-.0182	-.0161	-.0111	-.0114	-.0359	.0124	.1420	.1014
45.000	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	.1521	.1409
67.500			.0987	-.0351	-.0382	.0084	-.0297	-.0182	-.0196	-.0087	-.0510	.0267	.1450	.1643
90.000	.1146	.1159	.1153	-.0348	-.0412	-.0033	-.0355	-.0236	-.0253	-.0064	-.0524	.0327	.1293	.1368
112.500			.1337	-.0341	-.0416	-.0152	-.0409	-.0372	-.0267	-.0098	-.0591	.0398	.0956	.1369
135.000	.1635	.1635	.1712	-.0260	-.0368	-.0274	-.0463	-.0426	-.0331	-.0220	-.0649	.0422	.1382	.1653
157.500	.2236	.2175	.2169	-.0127	-.0232	-.0199	-.0398	-.0351	-.0317	-.0280	-.0564	.0084	.1733	.1804
180.000	.2646	.2378	.2453	-.0002	.0264	.0217	-.0310	-.0165	9.9990	.0000	-.0574	-.0026	.1722	.1499
202.500	.2690	.2605	.2808	.0210	.0146	.0179	-.0286	.0142	.0227	.0010	-.043E	.0102	.1455	.1556
225.000	.2422	.2960	.2642	-.0111	.0088	-.0256	-.0232	.0274	.0213	-.0006	-.0571	.0044	.1032	.1076
247.500	.2196	.2317	.1116	.0396	.0636	-.0635	-.0056	.0183	.0200	-.0070	-.0621	-.0012	.0206	.0556
270.000			.1374	.2399	.0572	-.0713	.0132	.0007	.0017	-.0083	-.0209	-.0053	.0152	.0643
292.500			.0565	.1079	-.0050	-.0743	.0118	.0000	-.0033	-.0073	-.0439	-.0094	.0054	.0288
315.000	.1316	.1708	.0423	-.0192	-.0418	-.0743	.0007	.0020	-.0043	-.0141	-.0462	-.0090	-.0016	-.0016
337.500	.1056	.1292	.1184	-.0513	-.0476	-.0696	-.0046	9.9990	-.0094	-.0127	-.0476	-.0080	.1171	.0619
360.000	.1017	.1014	.0329	-.0385	-.0304	-.0084	-.0138	-.0273	-.0077	-.0172	-.0318	-.0115	.1185	.1243

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 63/2 53/2 03 SRM BOOSTER (R82504) (24 APR 74)

REFERENCE DATA

SREF = 8.1880 SQ. IN. XPRP = 2.5480 IN.
LREF = 5.3130 IN. YPRP = .9720 IN.
EREF = 5.3130 IN. ZPRP = .0000 IN.
SCALE = .0040 SCALE

MACH (1) = .600 BETA (1) = -.4.000 Q = 4.3053 PTA = 22.012 RL = 4.9733 PSA = 17.309

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

Table with columns X/LS, PHI, and various dependent variables (CP, PTA, RL, PSA) for SRM BOOSTER. Values range from .0433 to .3507 for X/LS and .0000 to .2635 for PHI.

PARAMETRIC DATA

ALPHA = -5.000 CONF10 = 90.000
DELTA Z = .140 RUDDER = .000
X-SRB = .000 ORBINC = .500

MACH (1) = .600 BETA (2) = .000 Q = 4.3053 PTA = 22.012 RL = 4.9733 PSA = 17.309

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

Table with columns X/LS, PHI, and various dependent variables (CP, PTA, RL, PSA) for SRM BOOSTER. Values range from .0433 to .3507 for X/LS and .0000 to .2635 for PHI.

MSFC 567(1A32F) TO 53/2 53/2 03 SRM BOOSTER (R82504)

MACH (1) = .600 BETA (2) = .000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L9	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
292.500	.0388	-.7060	.0794	-.2466	-.0129	.0056	.0084	.0572	-.4080	-.0128	.0841	.1019	.1019	.1019
315.000	.3840	.3270	.0093	-.5005	.0431	-.1027	-.0004	.0129	.0164	.0271	-.6115	.0583	.2694	-.0191
337.500	.4018	.3030	.0200	-.5625	-.0013	-.0564	.0084	9.8990	.0164	.0040	-.4805	.1596	.3172	.0608
360.000	.3452	.2243	-.0795	-.6145	-.0644	-.0493	-.0431	-.0218	-.0120	-.0244	-.4437	.1851	.2939	.1280

MACH (1) = .600 BETA (3) = 4.000 Q = 4.3053 PTA = 22.012 RL = 4.9733 PSA = 17.389

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.009	.3012	.1783	-.1276	-.7009	-.1338	-.1015	-.1024	-.0800	-.0812	-.0648	-.4541	.1191	.2240	.0814
22.500	.2024	.0791	-.2192	-.7668	-.1835	-.1227	-.1334	-.1084	-.0923	-.1022	-.4301	.1409	.2360	.1313
45.000	.0969	-.0083	-.2960	-.8171	-.2076	-.1763	-.1486	-.1325	-.1155	-.1066	-.4179	.1424	.2210	.1183
67.500			.3510	-.7904	-.2078	-.1657	-.1380	-.1138	-.1040	-.0915	-.3930	.1399	.2087	.0944
90.000	-.0030	-.0987	-.3760	-.8824	-.1890	-.1416	-.1103	-.0888	-.0754	-.0593	-.4154	.1367	.1823	.0695
112.500			.3702	-.8135	-.1539	-.1155	-.0833	-.0735	-.0681	-.0485	-.4233	.1344	.1623	.0567
135.000	-.0145	-.1127	-.3787	-.8856	-.1431	-.1002	-.0592	-.0592	-.0636	-.0592	-.3823	.1444	.1622	.0479
157.500	-.0084	-.1089	-.3893	-.7443	-.1490	-.1045	-.0458	-.0287	-.0360	-.0280	-.3680	.1729	.2727	.1197
180.000	-.0269	-.1346	-.4048	-.8896	-.1465	-.1510	-.0378	-.0280	-.0150	-.0150	-.3578	.2057	.3295	.2040
202.500	-.0251	-.1462	-.4383	-.9599	-.1544	-.2618	-.0342	-.0260	-.0160	-.0051	-.3637	.1459	.2797	.2342
225.000	-.0169	-.1593	-.5317	-.1028	-.1748	-.5235	-.0433	-.0342	-.0196	.0031	-.4213	.0543	.1884	.2542
247.500	.1899	.1006	-.6258	-.1482	-.2299	-.5439	-.0506	-.0369	-.0196	.0276	-.3109	-.0205	.0823	.2169
270.000			-.2329	-.12347	-.2484	-.4863	-.0670	-.0451	-.0233	.0385	-.1671	-.0378	.0277	.0277
292.500			.0394	-.7032	.0531	-.2490	-.0515	-.0342	-.0160	.0112	-.2743	-.0305	.0752	.0113
315.000	.4094	.3482	.0232	-.4486	.0095	-.1200	-.0452	-.0388	-.0223	-.0305	-.5805	-.0195	.1151	-.0760
337.500	.4129	.3054	-.0159	-.4594	-.0951	-.0987	-.0651	9.9990	-.0332	-.0487	-.4603	.0559	.1898	-.0059
360.000	.3012	.1783	-.1276	-.7009	-.1338	-.1015	-.1024	-.0800	-.0612	-.0648	-.4541	.1191	.2240	.0814

MACH (2) = .900 BETA (1) = -4.000 Q = 7.3613 PTA = 22.005 RL = 6.2700 PSA = 13.033

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0423	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.4654	.3704	.1324	-.7788	.0369	-.0965	-.0622	.0290	.0743	.1023	-.5998	.1886	.3309	.1886
22.500	.4278	.3279	.1110	-.9097	-.0248	-.1258	-.0761	.0073	.0449	.0507	-.5752	.1898	.3383	.2746
45.000	.3553	.2972	.0768	-.9619	-.0739	-.1250	-.1034	-.0343	.0035	.0072	-.5762	.1838	.3315	.2943
67.500			.0256	-.9834	-.1348	-.1691	-.1354	-.0654	-.0380	-.0406	-.5470	.1715	.3183	.2617
90.000	.2267	.1485	-.0242	-.10418	-.1975	-.1885	-.1711	-.1071	-.0818	-.0813	-.5167	.1159	.2783	.2062
112.500			-.0722	-.10719	-.2027	-.2122	-.1874	-.1269	-.0955	-.0590	-.4605	.0634	.1891	.1393
135.000	.1388	.0511	-.0994	-.10815	-.3267	-.2208	-.1855	-.1112	-.0701	-.0342	-.4322	.0232	.0545	.0541
157.500	.1204	.0324	-.1302	-.10956	-.3789	-.2161	-.1565	-.0628	-.0286	-.0008	-.4401	-.0029	.0352	.0052

MSFC 567(1A32F) TO S3/2 S3/2 03 SRM BOOSTER

(R82504)

MACH (2) = .900 BETA (1) = -.000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
160.000	.1251	.6283	-.1410	-.0807	-.4635	-.2805	-.1221	-.0448	9.8990	-.0069	-.4105	-.0249	.0276	.0097
202.500	.1165	.0092	-.1848	-.9465	-.5636	-.3589	-.0864	-.0307	-.0365	-.0270	-.4416	-.0448	.0187	.0155
225.000	.1204	.0029	-.2682	-.7575	-.6748	-.4062	-.0839	-.0096	.0014	.0414	-.4601	-.0842	.0262	.0531
247.500		.2958	-.2772	-.6842	-.6910	-.0764	.0192	.0350	.0881	-.3078	-.1059	-.1059	.0176	.1295
292.500			.2078	-.8074	-.1530	-.4049	-.0517	.0342	.0542	.1255	-.2506	-.1098	.0361	.1000
315.000		.4738	.3397	-.7455	.1466	-.3036	-.0443	.0380	.0721	.1471	-.6491	-.0585	-.0205	.0652
337.500		.4950	.2371	-.8215	.1195	-.2199	-.0444	.0338	.0785	.1342	-.6516	-.0049	.2983	-.0375
360.000		.4054	.1324	-.7768	.0807	-.1773	-.0575	9.9990	.0755	.1102	-.5543	.1527	.3984	.0921
					.0389	-.0965	-.0622	.0290	.0743	.1023	-.5998	.1886	.3339	.1886

MACH (2) = .900 BETA (2) = .000 0 = 7.3613 PTA = 22.005 RL = 6.2700 PSA = 13.033

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.4600	.3623	.1227	-.7983	-.0580	-.1941	-.1116	-.0191	.0202	.0223	-.5443	.1437	.3116	.1753
22.500	.3292	.2866	.0613	-.9518	-.1554	-.2286	-.1344	-.0491	-.0154	-.0323	-.5183	.1408	.2856	.2283
45.000	.2946	.2143	.0107	-1.0068	-.2212	-.2254	-.1556	-.0790	-.0517	-.0611	-.5145	.1187	.2424	.2214
67.500			-.0454	-1.0455	-.2781	-.2306	-.1617	-.0901	-.0701	-.0775	-.4811	.1172	.2306	.1878
90.000	.1626	.0856	-.0725	-1.0806	-.3250	-.2071	-.1548	-.0640	-.0641	-.0620	-.4405	.0938	.2073	.1668
112.500			-.1053	-1.0765	-.3815	-.1874	-.1385	-.0696	-.0454	-.0169	-.4311	.0804	.1585	.1276
135.000	.1186	.0408	-.1137	-1.0658	-.4008	-.1705	-.1153	-.0480	-.0270	-.0091	-.4466	.0775	.1415	.1063
157.500	.1248	.0408	-.1183	-1.0847	-.437	-.1840	-.0978	-.0301	-.0253	-.0148	-.3907	.0618	.1211	.1027
180.000	.1150	.0240	-.1342	-1.0296	-.4580	-.2640	-.0879	-.0185	9.9990	-.0180	-.3811	.0207	.0680	.0680
202.500	.1105	.0062	-.1812	-.9497	-.5362	-.3482	-.0754	-.0030	.0046	.0199	-.3865	.0075	.0776	.0855
225.000	.1216	.0133	-.2564	-.7737	-.6629	-.4014	-.0910	.0145	.0213	.0486	-.4707	-.0454	.0795	.1798
247.500			-.2724	-.6957	-.6862	-.4070	-.0916	.0219	.0350	.0792	-.3289	-.0945	.0257	.1879
270.000	.2990	.2885	.2001	-.8250	-.1578	-.4139	-.0784	.0193	.0393	.1008	-.2025	-.1071	.0122	.0897
292.500			.3466	-.7313	.1456	-.3135	-.0674	.0317	.0579	.1015	-.4282	-.0947	-.0023	.0680
315.000	-.955	.782	.2518	-.8036	.1006	-.2512	-.0726	.0050	.0538	.0796	-.6021	-.0312	.1780	-.0312
337.500	.9209	.4437	.2259	-.7780	.0517	-.2217	-.0820	9.9990	.0438	.0590	-.5131	.1044	.3475	.0992
360.000	.4600	.3423	.1227	-.7983	-.0580	-.1941	-.1116	-.0191	.0202	.0223	-.5443	.1437	.3116	.1753

(R82504)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER

MACH (2) = .900 BETA (3) = 4.000 Q = 7.3613 PTA = 22.005 RL = 6.2700 PSA = 13.033

SECTION 1 : SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1150	.1510	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.4578	.3530	.1140	-.8234	-.1369	-.3330	-.1522	-.0580	-.0117	-.0127	-.5232	.0839	.2109	.0848
22.500	.3548	.2428	.0270	-.9591	-.2662	-.3530	-.1805	-.0964	-.0538	-.0701	-.4991	.1005	.2286	.1639
45.000	.2398	.1468	-.0459	-1.0429	-.3523	-.3486	-.1917	-.1191	-.0817	-.0917	-.4988	.0861	.1871	.1502
67.500			-.0959	-1.0775	-.4226	-.2763	-.1765	-.1059	-.0774	-.0843	-.4615	.0844	.1744	.1302
90.000	.1185	.0381	-.1153	-1.0937	-.4182	-.2547	-.1464	-.0749	-.0465	-.0391	-.4515	.0834	.1544	.1123
112.500			-.1283	-1.0830	-.4340	-.1740	-.1152	-.0595	-.0396	-.0228	-.4662	.0840	.1413	.0934
135.000	.1091	.0310	-.1172	-1.0832	-.4238	-.1628	-.0795	-.0407	-.0412	-.4431	.0991	.1486	.0907	
157.500	.1125	.0288	-.1254	-1.0834	-.4454	-.1960	-.0611	-.0127	-.0048	-.0027	-.4321	.1402	.2733	.1781
180.000	.1066	.0177	-.1280	-1.0644	-.4551	-.2837	-.0464	.0162	9.9990	.0162	-.4170	.1227	.3007	.2939
202.500	.1041	.0074	-.1614	-.9720	-.4524	-.4014	-.0495	.0152	.0168	.0236	-.4233	.0704	.2244	.2967
225.000	.1174	.0090	-.2458	-.8275	-.6600	-.4621	-.0616	.0195	.0242	.0378	-.4831	.1101	.2773	.2673
247.500			-.2701	-.7311	-.7064	-.4539	-.0825	.0143	.0300	.0656	-.3906	.1021	.0012	.2099
270.000	.3190	.2928	.1839	-.8275	-.1987	-.4600	-.1113	-.0076	.0242	.0682	-.2156	-.1156	-.0155	-.0491
292.500			.3176	-.6995	.1118	-.3819	-.1088	-.0040	-.0326	.0489	-.3338	-.1037	.0068	-.0182
315.000	.5563	.5296	.2968	-.7465	.0817	-.3557	-.1191	-.0266	.0268	.0231	-.5419	-.0758	.0559	-.1089
337.500	.5643	.4881	.2420	-.7822	-.0087	-.3703	-.1273	9.9990	.0148	.0127	-.4765	.0053	.1352	-.0307
360.000	.4578	.3530	.1140	-.8234	-.1369	-.3330	-.1522	-.0580	-.0117	-.0127	-.5232	.0839	.2109	.0848

MACH (3) = 1.050 BETA (1) = 4.000 Q = 8.4020 PTA = 22.003 RL = 6.5633 PSA = 11.064

SECTION 1 : SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1150	.1510	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.6070	.5317	.3329	-.5456	.2154	.0116	-.0861	-.1595	.1576	.2535	-.5718	.2713	.4512	.2874
22.500	.5709	.4886	.3088	-.6181	.1437	-.0158	-.1004	-.2029	.1308	.2003	-.5737	.3002	.5182	.3569
45.000	.5163	.4311	.2803	-.6349	.0571	-.0246	-.1279	-.2404	.0971	.1563	-.5812	.3024	.5001	.4127
67.500			.2316	-.6556	-.0686	-.1026	-.1733	-.2487	.0589	.1044	-.5635	.2675	.4345	.3701
90.000	.3825	.3258	.1899	-.6825	-.2812	-.1113	-.2298	-.2614	.0222	.0617	-.5381	.1810	.3736	.3077
112.500			.1433	-.7122	-.4399	-.0953	-.2733	-.2591	.0044	.0748	-.5044	.1106	.2578	.2356
135.000	.2910	.2306	.1206	-.7305	-.5131	-.1036	-.2556	-.2225	.0261	.0990	-.4756	.0619	.1332	.1234
157.500	.2770	.2135	.0878	-.7458	-.5451	-.1193	-.1952	-.1580	.0399	.1237	-.5203	.0459	.0755	.0856
180.000	.2812	.2030	.0699	-.7502	-.5319	-.2153	-.1468	-.1320	9.9990	.1147	-.4035	.0342	.0817	.0883
202.500	.2711	.1835	.0284	-.7912	-.4286	-.3476	-.0952	-.1035	.0265	.1062	-.4788	-.0017	.0810	.0754
225.000	.2783	.1814	-.0478	-.7577	-.5302	-.4369	-.0622	-.0522	.0785	.1583	-.4043	.0594	.0615	.1468
247.500			-.0649	-.6998	-.6028	-.4462	-.0636	-.0557	.0930	.1872	-.2746	-.1347	-.0072	.1714
270.000	.4172	.4295	.3682	-.5957	-.0331	-.4442	-.1319	-.0563	.1146	.2264	-.2390	-.1174	.0110	.1456
292.500			.4989	-.4525	.3022	-.2539	-.1204	-.1074	.1456	.2809	-.6972	-.0988	-.0304	.1199
315.000	.5948	.5956	.4115	-.5406	.2989	-.1042	-.1148	-.1425	.1610	.2777	-.6123	.0167	.3460	-.1213
337.500	.6196	.5873	.3639	-.5608	.2624	-.0461	-.1211	9.9990	.1577	.2550	-.5403	.2205	.4515	.1368
360.000	.6070	.5317	.3329	-.5456	.2154	.0116	-.0861	-.1595	.1576	.2535	-.5718	.2713	.4512	.2874

(R82504)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER

MACH (4) = 1.250 BETA (3) = 4.000 0 = 9.2780 PTA = 22.005 RL = 6.6800 PSA = 8.5363

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1012	.1198	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.4875	.5142	.4274	.3474	.0694	.0130	-.1346	-.1892	-.1095	.0894	-.4827	.0189	.3206
22.500	.4025	.4225	.3942	-.3898	-.0714	-.0664	-.1822	-.2272	-.1535	.0014	-.4839	.0303	.2751	.2155
45.000	.2947	.3272	.2788	-.4276	-.2098	-.1390	-.2353	-.2683	-.1828	-.0268	-.5018	.0945	.1702	.2516
67.500			.2272	-.4463	-.3072	-.1930	-.2184	-.2438	-.1522	-.0064	-.4806	.0340	.1233	.2146
90.000	.1419	.2174	.1916	-.4392	-.3457	-.1928	-.1723	-.1903	-.1252	.0281	-.4635	.0336	.1179	.1593
112.500			.1751	-.4646	-.3607	-.1128	-.1524	-.1624	-.1382	.0328	-.4592	.0399	.1316	.1430
135.000	.1168	.1812	.1624	-.4678	-.3627	-.0517	-.1255	-.1372	-.1439	-.0042	-.4551	.0411	.1742	.1562
157.500	.1333	.1746	.1496	-.4495	-.3711	-.0610	-.0857	-.0802	-.0673	.0511	-.4151	.0615	.3126	.2313
180.000	.0870	.1622	.1250	-.4810	-.3936	-.1746	-.0597	-.0555	9.9990	.0435	-.4301	.0710	.3024	.3562
202.500	.0818	.1502	.0981	-.5081	-.3601	-.2941	-.0487	-.0404	-.0391	.0572	-.4255	.0329	.2185	.3592
225.000	.0957	.1684	.0238	-.5690	-.4027	-.4220	-.0542	-.0359	-.0338	.0794	-.4210	-.0201	.1054	.2819
247.500	.2840	.4476	.4960	-.3129	.1009	-.4187	-.0717	-.0679	-.0595	.1318	-.2716	-.1179	-.0230	.1883
292.500	.4373	.5975	.6159	-.1808	.4196	-.2334	-.0881	-.1140	-.0418	.1331	-.4177	-.1294	-.0430	-.0009
315.000	.5256	.5958	.5424	-.2605	.3979	-.1181	-.0897	-.1436	-.0338	.1319	-.4692	-.0782	.1361	-.1467
337.500	.4875	.5142	.4274	-.3474	.0694	.0130	-.1346	-.1892	-.1095	.0894	-.4827	.0189	.3206	.2155
360.000														

MACH (5) = 1.480 BETA (1) = 4.000 0 = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 6.3713

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1199	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.3581	.5385	.4888	-.1882	-.0733	-.0451	-.0023	-.0582	-.0419	.0523	-.3325	-.1843	.2812
22.500	.3593	.4900	.4618	-.1967	-.0999	.1450	-.0044	-.0599	-.0530	-.0199	-.3488	-.2113	.2728	.5169
45.000	.3481	.4199	.4134	-.2149	-.1235	.1763	-.0410	-.0957	-.1031	-.0410	-.3445	-.1833	.2595	.4656
67.500			.3671	-.2268	-.1476	.0668	-.0878	-.1341	-.1570	-.0806	-.3399	-.1872	.2391	.4159
90.000	.2632	.2942	.2991	-.2529	-.1737	.0070	-.1297	-.1892	-.1733	-.1137	-.3427	-.1876	.2339	.3469
112.500			.2679	-.2587	-.1922	-.0947	-.1742	-.2554	-.1477	-.1204	-.3261	-.1706	.2248	.2620
135.000	.1531	.1759	.2527	-.2695	-.2119	-.1558	-.2193	-.1682	-.1229	-.0870	-.2925	-.0770	.1665	.1918
157.500	.1081	.1771	.2472	-.2898	-.2233	-.2025	-.2466	-.0887	-.1055	-.0749	-.2460	-.0048	.0963	.1118
180.000	.0973	.1845	.2388	-.2663	-.2360	-.1960	-.1155	-.0743	9.9990	-.0833	-.3250	-.0024	.0923	.0751
202.500	.0951	.2783	.2163	-.3100	-.3166	-.2904	-.0944	-.0407	-.0848	-.0611	-.2664	-.0165	.0907	.0801
225.000	.0979	.2973	.1701	-.3629	-.4436	-.3829	-.0668	-.0244	-.0452	.0567	-.2808	-.0620	.0690	.1703
247.500		.6023	.2748	-.3522	-.4792	-.4216	-.0105	-.0252	-.0411	.0923	-.2207	-.0975	.0179	.1330
292.500	.2434		.7923	-.0608	-.3347	-.2665	-.0587	-.0857	-.0485	.0947	-.1539	-.0963	.0065	.1510
315.000	.3153	.6465	.7370	-.0472	-.2072	.0021	-.0847	-.0745	-.0390	.0054	-.3347	-.0673	.0139	.0612
337.500	.3169	.6102	.6024	-.1492	-.1618	.1122	-.0354	-.0584	-.0362	-.0264	-.3346	-.0554	.2999	-.1116
360.000	.3581	.5385	.4888	-.1882	-.0733	-.0451	-.0023	-.0582	-.0419	.0523	-.3325	-.1843	.2812	.4465

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MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER (R82304)

MACH (5) = 1.460 BETA (2) = .000 0 = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 6.3713

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.3148	.5333	.5124	-.1706	-.0322	-.0187	-.1163	-.0763	-.1326	-.0113	-.3510	-.0540	.2573
22.500	.2848	.4102	.4543	.4243	-.1939	-.0340	.0658	-.1294	-.1130	-.1563	-.0588	-.3531	-.0664	.2258
45.000	.2438	.3267	.3818	.3818	-.2257	-.1354	.0580	-.1571	-.1350	-.1636	-.0917	-.3564	-.0548	.2152
67.500	.1535	.1919	.2091	.2091	-.2506	-.1701	-.0150	-.1848	-.1661	-.1714	-.1146	-.3681	-.0680	.2230
90.000	.0813	.1168	.1260	.1260	-.2714	-.1979	-.0183	-.1914	-.1824	-.1701	-.0989	-.3547	-.0158	.2266
112.500	.0617	.0813	.0813	.0813	-.2653	-.2073	-.1048	-.1812	-.1081	-.1420	-.0603	-.2939	.0486	.1948
135.000	.0719	.0617	.0617	.0617	-.2930	-.2183	-.1436	-.1648	-.0775	-.1171	-.0566	-.2893	.0613	.1630
160.000	.0735	.0624	.0624	.0624	-.2856	-.2463	-.1639	-.0382	-.0545	-.0990	-.0643	-.2432	.0356	.1323
202.500	.0565	.0301	.0301	.0301	-.3181	-.3222	-.2737	-.0386	-.0403	-.0370	-.0049	-.2211	.0049	.1561
225.000	.2216	.5839	.5839	.5839	-.3647	-.4223	-.3634	-.0709	-.0293	-.0293	.0548	-.2586	-.0553	.0291
247.500	.3124	.6439	.6439	.6439	-.3474	-.4667	-.3764	-.0202	-.0255	-.0358	.1051	-.1790	-.0827	.0149
292.500	.3412	.5893	.5893	.5893	-.3799	-.0370	-.1268	-.1072	-.1297	-.0297	-.0848	-.3460	-.0704	.0172
315.000	.3148	.5333	.5333	.5333	-.3547	-.4223	-.3634	-.0709	-.0293	-.0293	.0548	-.2586	-.0553	.0291
337.500	.2848	.4102	.4102	.4102	-.3474	-.4667	-.3764	-.0202	-.0255	-.0358	.1051	-.1790	-.0827	.0149
358.000	.2438	.3267	.3267	.3267	-.2506	-.1701	-.0150	-.1848	-.1661	-.1714	-.1146	-.3681	-.0680	.2230
					-.2714	-.1979	-.0183	-.1914	-.1824	-.1701	-.0989	-.3547	-.0158	.2266
					-.2653	-.2073	-.1048	-.1812	-.1081	-.1420	-.0603	-.2939	.0486	.1948
					-.2930	-.2183	-.1436	-.1648	-.0775	-.1171	-.0566	-.2893	.0613	.1630
					-.2856	-.2463	-.1639	-.0382	-.0545	-.0990	-.0643	-.2432	.0356	.1323
					-.3181	-.3222	-.2737	-.0386	-.0403	-.0370	-.0049	-.2211	.0049	.1561
					-.3647	-.4223	-.3634	-.0709	-.0293	-.0293	.0548	-.2586	-.0553	.0291
					-.3474	-.4667	-.3764	-.0202	-.0255	-.0358	.1051	-.1790	-.0827	.0149
					-.0370	-.1268	-.1072	-.1297	-.0297	-.0848	-.3460	-.0704	.0172	.0591
					-.1330	-.0942	-.0258	-.1236	-.0162	-.0876	.0739	-.3305	-.0737	.2867
					-.1585	-.0186	.1188	.1108	9.9930	-.1096	.0095	-.3477	-.0912	.3226
					-.1706	-.0322	-.0187	-.1163	-.0763	-.1326	-.0113	-.3510	-.2640	.3052

MACH (5) = 1.460 BETA (3) = 4.000 0 = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 6.3713

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.4508	.4663	-.1849	-.0220	-.1114	-.1616	-.1114	-.1669	.0384	-.3612	-.0493	.2971	.1714
22.500	.2563	.3465	.3791	-.2232	-.1069	-.0375	-.2085	-.1742	-.2064	-.0403	-.3632	-.0084	.2147	.2932
45.000	.1881	.2387	.2918	-.2623	-.1794	-.0586	-.2329	-.2264	-.1856	-.0713	-.3827	-.0216	.1726	.3040
67.500	.0837	.1143	.2135	-.2899	-.2290	-.1188	-.2250	-.2111	-.1674	-.0804	-.3594	-.0433	.1612	.2343
90.000	.0372	.0702	.1416	-.3161	-.2513	-.1223	-.2113	-.1411	-.1435	-.0586	-.3311	.0502	.1506	.1890
112.500	.0290	.0628	.1025	-.3232	-.2448	-.1048	-.1820	-.1076	-.1264	-.0595	-.3795	.0375	.1579	.1751
135.000	.0154	.0353	.1168	-.3176	-.2376	-.1044	-.1220	-.0897	-.1163	-.1024	-.3332	.0213	.1767	.1747
157.500	.0053	.0205	.1522	-.3162	-.2562	-.1064	-.0636	-.0513	-.0403	-.0228	-.2782	-.0231	.3307	.2259
202.500	.0481	.2249	.1615	-.3205	-.1886	-.0331	-.0437	9.9990	9.9990	9.9990	9.9990	9.9990	.3064	.3534
225.000	.3407	.5036	.1529	-.3291	-.3120	-.2899	-.0424	-.0444	-.0346	-.0200	-.2775	.0379	.2230	.3446
247.500	.4205	.5633	.1355	-.3737	-.3553	-.3623	-.0821	-.0396	-.0310	-.0534	-.3030	-.0220	.1082	.2609
292.500	.3995	.5420	.2345	-.3644	-.4541	-.3635	-.0571	-.0355	-.0351	.0876	-.2086	-.0813	-.0004	.1681
315.000	.3026	.4508	.6705	-.0918	-.1669	-.3563	-.0653	-.0510	-.0628	.1134	-.1950	-.0889	-.0203	.0176
337.500			.7824	-.0355	.1554	-.1555	-.1273	-.0481	-.0881	.1244	-.3630	-.0751	-.0065	.0220
358.000			.6020	-.1342	.1178	-.0497	-.0726	-.0571	-.0917	.1297	-.3527	-.0702	.1676	.1313
			.3995	-.1538	.0579	-.0387	-.0440	9.9990	9.9990	9.9990	9.9990	9.9990	9.9990	.0354
			.3026	-.1849	-.0220	-.1114	-.1616	-.1114	-.1669	.0384	-.3612	-.0493	.2971	.1714

(RBS204)

MSFC 967(1A32F) TO S3/2 S3/2 03 SRM BOOSTER

MACH (0) = 1.060 BETA (1) = -4.000 Q = 10.262 PTA = 28.008 RL = 7.0933 PSA = 3.8560

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1159	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.3486	.3571	.4111	-.0232	.0568	.0349	.1138	.1093	.0323	.0372	-.2019	-.0960	.1640
22.500	.3030	.3630	.3798	-.0534	.0251	.0342	.0931	.0673	-.0148	.0089	-.2157	-.0738	.2932	.4265
45.000	.3834	.3524	.3595	-.0635	-.0088	.0172	.0561	.0156	-.0326	-.0201	-.2326	-.0729	.2246	.1361
67.500	.2894	.2603	.3325	-.0789	-.0445	-.0038	.0134	-.0317	-.0641	-.0663	-.2328	-.0987	.2089	.1611
90.000	.2094	.2803	.2950	-.0971	-.0760	-.0107	-.0373	-.0662	-.1089	-.1273	-.2321	-.1212	.1723	.1881
112.500	.1858	.2134	.2426	-.1210	-.1032	-.0621	-.0318	-.1104	-.1561	-.1066	-.2262	-.1167	.1376	.1534
135.000	.1732	.1431	.1899	-.1435	-.1099	-.0593	-.0786	-.1604	-.1189	-.0797	-.2079	-.1198	.1005	.1642
160.000	.0870	.1339	.1570	-.1172	-.0761	-.0874	-.1872	-.1217	-.0875	-.1319	-.2099	-.0286	.0597	.0578
202.500	.0820	.1239	.3399	-.1302	-.1380	-.1700	-.1523	-.0334	-.0057	-.0323	-.1509	-.0733	.1997	.0555
247.500	.1429	.4313	.9461	-.0671	-.2403	-.2780	-.1266	.0058	.0143	.0008	-.1886	-.0538	.0451	.1151
270.000	.2564	.3752	.9792	-.2075	-.0759	-.1191	.0939	.0827	.0451	.0218	-.1620	.0128	.1046	-.1036
315.000	.3108	.3501	.6732	.0533	.0694	.1827	.1252	9.9990	.0454	.0750	-.1892	-.0144	.1381	.0582
360.000	.3465	.3571	.4111	-.0232	.0568	.0349	.1138	.1093	.0323	.0372	-.2019	-.0960	.1640	.4650

MACH (6) = 1.060 BETA (2) = .000 Q = 10.262 PTA = 28.008 RL = 7.0933 PSA = 3.8560

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1159	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.3068	.3446	.3992	-.0282	.0225	.0050	.0121	.0884	.0005	-.0458	-.2232	-.1447	.1765
22.500	.2982	.3177	.3417	-.0747	.0095	.1679	-.0182	.0188	-.0335	.0800	-.2176	-.1440	.1450	.2831
45.000	.2666	.2623	.2920	-.1012	-.0354	.1259	-.0514	-.0252	-.0765	-.1176	-.2265	-.1322	.1408	.2504
67.500	.2087	.2068	.2524	-.1155	-.0739	-.0343	-.0646	-.1080	-.1039	-.1417	-.2192	-.1321	.1605	.1869
90.000	.1550	.1423	.1750	-.1275	-.1090	-.0425	-.0672	-.1245	-.1369	-.0998	-.2166	-.1085	.1706	.1538
112.500	.1213	.1175	.1228	-.1617	-.1206	-.0622	-.0838	-.1172	-.0480	-.0671	-.1508	-.0072	.1172	.1411
160.000	.0929	.1071	.1632	-.1172	-.1000	-.1037	-.1183	-.0259	9.9990	-.0259	-.1923	-.0289	.1542	.0974
202.500	.0745	.1123	.2882	-.1137	-.1537	-.1858	-.1066	-.0102	.0054	-.0064	-.1839	-.0467	.2591	.1542
247.500	.0741	.1360	.3439	-.1243	-.2478	-.2773	-.1381	.0185	-.0012	-.0079	-.1833	-.0278	.0798	.0988
270.000	.1453	.3455	.9705	-.0672	-.2533	-.2858	-.1187	.0565	.0002	.0028	-.1596	-.0387	.0016	.1011
292.500	.2483	.3985	.9406	.1931	-.0804	-.0205	.0413	.1208	.0181	-.0216	-.1881	-.0577	.0936	-.0842
315.000	.2939	.3786	.5611	.0506	.0570	.2617	.0581	9.9990	.0289	-.0245	-.2102	-.0663	.2073	.2473
360.000	.3068	.3446	.3992	-.0282	.0225	.0050	.0121	.0884	.0005	-.0458	-.2232	-.1447	.1765	.2822

(R82504)

MSFC 567(1A32F) TO 53/2 53/2 03 SRM BOOSTER

MACH (6) = 1.980 BETA (3) = 4.000 Q = 10.282 PTA = 28.008 RL = 7.0933 PSA = 3.8560

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.2678	.2068	.3507	-.0468	.0142	-.0517	-.0656	.0161	-.0528	-.0860	-.2257	-.1647	.1705	.2112
22.500	.2467	.2474	.2658	-.0995	-.0419	.1042	-.1048	-.0434	-.0939	-.1248	-.2234	-.1730	.0975	.2597
45.000	.1983	.1957	.2239	-.1311	-.1017	.0597	-.1364	.1145	-.1443	-.1541	-.2339	-.1382	.0824	.1818
67.500			.1711	-.1565	-.1328	-.0325	-.1434	.1358	-.1611	-.1072	-.2244	-.0879	.0862	.1360
90.000	.1159	.1276	.1261	-.1744	-.1499	-.0554	-.1194	.1522	-.1044	-.0904	-.2031	-.0598	.0998	.1101
112.500			.0978	-.1877	-.1534	-.0501	-.0908	.1198	-.0660	-.0855	-.1702	-.0580	.1057	.1114
135.000	.0727	.0794	.0810	-.1947	-.1472	-.0868	-.0902	.0755	-.0646	-.0844	-.1988	-.0660	.1190	.0941
157.500	.0537	.0635	.0771	-.1932	-.1258	-.1044	-.0765	.0347	-.0200	-.0377	-.1943	-.0393	.4141	.2023
180.000	.0240	.0481	.0975	-.1406	-.1319	-.1247	-.0411	-.0204	9.9990	-.0189	-.1932	-.0304	.2930	.2213
202.500	.0104	.0523	.2233	-.1243	-.1719	.2029	-.0715	-.0088	-.0092	-.0129	-.1830	-.0785	.1924	.2097
225.000	.0093	.0643	.2974	-.1358	-.2445	-.2705	-.1098	.0142	-.0072	-.0008	-.1346	-.0411	.1072	.1776
247.500			.4911	-.0810	-.2531	-.2821	-.1130	.0443	-.0094	.0236	-.1743	-.0542	-.6034	.1117
270.000	.0716	.2287	.9255	-.2034	-.1289	-.2369	-.1527	.0765	-.0254	-.0009	-.0985	-.0550	-.6136	.3247
292.500			.9026	.1940	-.0631	-.0265	-.0472	.1197	-.0095	-.0578	-.2211	-.6644	.0032	.0239
315.000	.1917	.3801	.7094	.0771	-.0200	.1476	-.0430	.1001	-.0053	-.0690	-.2349	-.0787	.1787	-.5957
337.500	.2415	.3557	.5525	.0368	.0326	.2411	-.0442	9.9990	-.0249	-.0238	-.2400	-.1074	.2153	.0421
360.000	.2678	.2958	.3507	-.0468	.0142	-.0517	-.0656	.0161	-.0528	-.0860	-.2257	-.1647	.1705	.2112

MACH (7) = 2.990 BETA (1) = -4.000 Q = 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82900

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.3852	.3441	.3199	.0073	.0468	.0215	.1284	.0513	.0405	.0163	-.0539	.0116	.2513	.1872
22.500	.3715	.3539	.3397	.0070	.0186	9.9990	.0772	.0309	.0268	.0000	-.0610	.0418	.3043	.1781
45.000	.3390	.3371	.3296	.0073	.0061	9.9990	.0281	.0218	.0005	-.0139	-.0685	.0015	.2840	.2189
67.500			.2994	.0045	-.0020	.0740	.0005	.0013	-.0251	-.0348	-.0994	-.0390	.1957	.2081
90.000	.2599	.2651	.2610	-.0070	-.0129	.0593	-.0222	-.0178	-.0487	-.0588	-.1024	-.0748	.0970	.1458
112.500			.2248	-.0204	-.0263	.0213	-.0319	-.0293	-.0655	-.0785	-.1009	-.0618	.0067	.0880
135.000	.2032	.1902	.1846	-.0454	-.0399	-.0170	-.0413	-.0498	-.0804	-.0726	-.1050	-.0588	.0191	.0518
157.500	.1816	.1607	.1380	-.0547	-.0354	-.0222	-.0498	-.0785	-.0905	-.0703	-.0855	-.0503	-.0077	.0146
180.000	.1487	.1140	.0893	-.0695	-.0292	-.0218	-.0747	-.0867	9.9990	-.0725	-.1061	-.0549	.0011	.0077
202.500	.1350	.0951	.0966	-.0427	-.0442	-.0811	-.0990	-.0823	.0565	-.0884	-.0941	-.0480	.0474	.0195
225.000	.1171	.1018	.1245	-.0122	-.0577	-.1199	-.0979	-.0752	-.0521	-.0256	-.0897	-.0338	.2645	.0716
247.500			.3717	.1458	-.0405	.1266	-.0942	-.0670	-.0401	.0011	-.0972	-.0584	.0026	.0533
270.000	.1492	.1878	.7945	.4739	.0656	-.1281	.0038	-.0293	-.0439	-.0029	-.0990	-.0651	-.0034	.0917
292.500			.4101	.4213	.1003	.1229	.1272	.0582	.0183	.0183	-.0521	.0427	.0052	.0224
315.000	.2448	.2442	.3613	.1126	.1383	-.0378	.1190	.0716	.0284	.0190	-.0543	.0521	.1275	.0461
337.500	.3327	.2979	.3057	.0313	.0724	.0492	.1279	9.9990	.0313	.0168	-.0689	-.0288	.1388	.0775
360.000	.3862	.3441	.3199	.0073	.0468	.0215	.1284	.0513	.0405	.0163	-.0539	.0116	.2513	.1872

NSFC 987(1A32F) TO 53/2 53/2 03 9PM BOOSTER (PERSON)

MACH (7) = 2.980 BETA (2) = .000 0 = 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82900

SECTION (1) 9PM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0431	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PH1	.3268	.2949	.2828	-.0137	.0163	.0431	.0681	.0015	.0265	.0116	-.0711	-.0413	.1115	.0951
22 500	.3001	.2690	.2830	-.0113	-.0057	-.0133	.0458	-.0162	-.0058	-.0184	-.0708	-.0270	.1096	.0772
45 000	.2539	.2339	.2535	-.0114	-.0248	-.0519	.0164	-.0301	-.0353	-.0424	-.0957	-.0457	.0768	.0712
67 500	.1787	.1834	.1668	-.0267	-.0446	-.0345	-.0304	-.0480	-.0703	-.0733	-.0975	-.0524	.0395	.0656
90 000	.1610	.1331	.1331	-.0311	-.0323	-.0367	-.0415	-.0486	-.0768	-.0655	-.0942	-.0427	.0004	.0384
112 500	.1402	.1324	.1331	-.0554	-.0588	-.0360	-.0427	-.0580	-.0804	-.0636	-.0946	-.0409	.0120	.0444
135 000	.1311	.1169	.1043	-.0680	-.0546	-.0329	-.0486	-.0725	-.0762	-.0676	-.0852	-.0417	.0209	.0522
157 500	.1193	.0910	.0750	-.0782	-.0424	-.0446	-.0714	-.0718	0.9990	-.0599	-.0953	-.0502	.0368	.0362
180 000	.1109	.0748	.0822	-.0548	-.0656	-.0849	-.0913	-.0720	0.428	-.0265	-.0767	-.0330	.1320	.0577
202 500	.1029	.0839	.1122	-.0286	-.0584	-.1162	-.0979	-.0681	-.0278	-.0062	-.0879	-.0144	.0653	.0745
225 000	.1339	.1174	.2010	-.1428	-.0427	-.1236	-.0994	-.0640	-.0159	.0008	-.0946	-.0301	.0127	.0656
247 500	.6733	.4038	.6733	.4038	.0604	-.1240	.0041	-.0524	-.0181	-.0137	-.0953	-.0356	.0244	.0591
270 000	.3508	.3781	.3508	.3781	.0914	-.1195	.1238	.0038	.0351	.0422	-.0509	-.0319	.0179	-.0253
292 500	.2478	.2181	.3438	.0768	.1324	-.0413	.1119	.0463	.0653	.0653	-.0726	-.0401	.0899	-.0252
315 000	.3128	.2651	.2652	.0179	.0422	.0366	.1081	0.9990	.0392	.0384	-.0829	-.0456	.0327	.0345
337 500	.3266	.2949	.2626	-.0137	.0183	.0451	.0861	.0015	.0265	.0116	-.0711	-.0413	.0115	.0951

MACH (7) = 2.980 BETA (3) = 4.000 0 = 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82900

SECTION (1) 9PM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PH1	.2822	.2543	.2513	-.0166	.0116	-.0140	.0299	-.0330	-.0144	-.0252	-.0801	-.0764	.0152	.0030
22 500	.2352	.2251	.2169	-.0287	-.0130	0.9990	-.0149	-.0533	-.0500	-.0590	-.0849	-.0599	.0163	.0293
45 000	.1842	.1816	.1793	-.0420	-.0390	0.9990	-.0431	-.0748	-.0759	-.0811	-.0968	-.0644	-.0269	.0240
67 500	.1052	.1070	.1327	-.0538	-.0539	.0172	-.0625	-.0882	-.0975	-.0838	-.0987	-.0729	.0420	.0251
90 000	.0858	-.0681	.1048	-.0621	.0610	.0062	-.0562	-.0875	-.0346	-.0830	-.0964	-.0744	.0420	.0070
112 500	.0791	.0765	.0675	-.0681	-.0685	-.0289	-.0681	-.0849	-.0949	-.0852	-.1013	-.0640	-.0148	-.0185
135 000	.0757	.0827	.0481	-.0804	-.0666	-.0614	-.0659	-.0510	-.0714	-.0916	-.1050	-.0518	.0384	.0129
157 500	.0679	.0477	.0295	-.0690	-.0584	-.0793	-.0834	-.0503	0.9990	-.0181	-.0987	-.0480	.0366	.1452
180 000	.0619	.0429	.0392	-.0774	-.0748	-.1046	-.1039	-.0737	-.0200	-.0207	-.0811	-.0293	.1007	.1078
202 500	.0566	.0794	-.0476	-.0748	-.1266	-.1151	-.0670	-.0055	-.0170	-.0875	-.0624	-.0256	.0448	.0448
225 000	.1014	.1801	.0731	.1111	-.0550	-.1307	-.1225	-.0632	-.0114	-.0107	-.0979	-.0438	.0355	.0261
247 500	.2718	.2718	.4532	.2718	.0474	-.1318	-.0081	-.0744	-.0211	-.0219	-.0979	-.0412	.0272	.0370
270 000	.2494	.2494	.2494	.2494	.0854	-.0949	.1018	-.0360	.0433	.0194	-.0748	-.0338	.0036	.0272
292 500	.2204	.2204	.3531	.0336	.0597	.0694	.0865	-.0278	.0496	.0550	-.0844	-.0555	.0355	.0199
315 000	.2800	.2420	.3005	.0231	.0465	.1551	.0560	0.9990	.0217	.0231	-.0893	-.0355	.0443	.0443
337 500	.2822	.2943	.2513	-.0166	.0116	-.0140	.0299	-.0330	-.0144	-.0252	-.0801	-.0764	.0152	.0030

MFPC 567(1A32F) TO 53/2 53/2 03 50M BOOSTER (REVISION)

MACH (0) = 3.480 BETA (1) = -4.000 Q = 5.7167 PTA = 50.012 RL = 5.3300 PSA = 57500

SECTION (1) 50M BOOSTER

PHI	1013	1158	1518	2240	3323	4405	5488	6570	7653	8634	9122	9555
.000	.3302	.0250	.0541	.0125	.0980	.0673	.0552	.0359	-.0412	.0450	.2923	.2125
22 500	.3505	.0312	.0265	9.9990	.0420	.0525	.0255	.0153	-.0355	.0592	.3451	.275
45 000	.3403	.0315	.0166	9.9990	.0220	.0379	.0078	.0024	-.0682	.0247	.2720	.2529
67 500	.3055	.0247	.0118	.0670	.0027	.0165	-.0100	-.0158	-.0747	-.0144	.1952	.2229
90 000	.2669	.0135	.0024	.0562	-.0093	-.0293	-.0293	-.0354	-.0770	-.0513	.1065	.227
112 500	.2307	.0010	-.0083	.0365	-.0148	-.0182	-.0409	-.0537	-.0760	-.0531	.0364	.2956
135 000	.1925	-.012	-.0205	.0166	-.0205	-.0354	-.0533	-.0534	-.0734	-.0436	.0212	.270
157 500	.1542	.1695	.1499	-.0280	.0031	-.0266	-.0544	-.0576	-.0534	-.0510	.0115	.2195
180 000	.1248	.1018	-.0466	-.0192	-.0577	-.0552	9.9990	-.0513	-.0797	-.0510	.0124	.2226
202 500	.1550	.0991	.1015	-.0286	-.0942	-.0753	.0625	-.0549	-.0521	-.0327	.0368	.2136
225 000	.1471	.0958	.0971	-.0274	-.0936	-.0808	-.0578	-.0289	-.0555	-.0179	.0569	.2567
247 500	.1719	.1451	.2304	-.0036	-.1004	-.0740	-.0520	-.0465	-.0735	-.0429	.0329	.2416
270 000	.3887	.3508	.6566	.628	.0981	-.1007	.0088	-.0036	-.0351	-.0347	.0141	.0788
292 500	.3068	.2432	.3302	.0913	.1795	-.0209	.0954	.0032	.0261	-.0422	.095	.2225
315 000	.3636	.3055	.3024	.0281	.1612	.0746	.1147	9.9990	.0467	.0456	.0381	.2903
337 500	.4124	.3654	.3302	.0250	.0541	.0125	.0989	.0573	.0552	.0359	.0472	.2923
350 000												

MACH (0) = 3.480 BETA (2) = .000 Q = 5.7167 PTA = 50.012 RL = 5.3300 PSA = 57500

SECTION (1) 50M BOOSTER

PHI	1013	1158	1518	2240	3323	4405	5488	6570	7653	8634	9122	9555
.000	.2869	.0071	.0277	.0568	.0771	.0146	.0220	.0146	-.0401	-.0141	.1421	.1138
22 500	.3136	.0123	.0045	.0731	.0370	.0034	-.0032	-.0042	-.0401	-.0141	.1421	.1138
45 000	.2608	.0132	-.0073	-.0333	-.0125	-.0114	-.0249	-.0239	-.0548	-.0253	.0721	.2243
67 500	.2205	-.0033	-.0156	-.0127	-.0107	-.0293	-.0409	-.0418	-.0582	-.0432	.2856	.2687
90 000	.1888	-.0083	-.0229	-.0192	-.0256	-.0300	-.0496	-.0523	-.0589	-.0395	.2352	.2447
112 500	.1654	-.0165	-.0290	-.0205	-.0249	-.0310	-.0530	-.0436	-.0652	-.0347	.2111	.2267
135 000	.1390	-.0283	-.0358	-.0192	-.0259	-.0445	-.0557	-.0473	-.0552	-.0341	.2136	.2244
157 500	.1279	-.0395	-.0341	-.0189	-.0314	-.0520	-.0591	-.0482	-.0587	-.0340	.2122	.2150
180 000	.1035	-.0809	-.0533	-.0310	-.0469	-.0530	9.9990	-.0408	-.0552	-.0333	.2119	.2179
202 500	.0839	-.0805	-.0378	-.0429	-.0638	-.0591	-.0344	-.0341	-.0517	-.0195	.2175	.2154
225 000	.0822	-.0920	-.0182	-.0310	-.0921	-.0726	-.0574	-.0393	-.0594	-.0151	.2573	.2135
247 500	.1509	.1397	-.0037	-.0958	-.077	-.0500	-.0255	-.0355	-.0549	-.0336	.2122	.2122
270 000	.4425	.4300	.0944	-.0859	.0202	-.0161	-.0249	-.0383	-.0552	-.0412	.2112	.2112
292 500	.3102	.2561	.1211	-.0852	.1204	.0395	.0173	-.057	-.0175	-.0152	.2112	.2112
315 000	.2778	.0516	.1103	-.0209	.1162	.0378	.0386	-.0579	-.0385	-.0377	.2112	.2112
337 500	.3400	.2737	.2690	.0443	.0592	.1211	9.9990	.0359	-.0505	-.0134	.2112	.2112
350 000	.3454	.3116	.2869	.0071	.0277	.0568	.0771	.0146	-.0401	-.0141	.1421	.1138

05

DATE: 0 5 73

TABULATED SOURCE DATA, MSFC TMT 567 (1:32F)

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MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM BOOSTER (RE2504)

MACH (8) = 3.480 BETA (3) = 4.000 Q = 5.7167 PTA = 50.012 RL = 3.3300 PSA = .67500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.2433	.0722	.1013	.1150	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9536
PHI	.2920	.1652	.2531	-.0033	.0149	-.0018	.0453	-.0124	-.0043	-.0185	-.0510	-.0503	.0480	.0308
22.500	.2481	.2107	.2353	-.0083	-.0124	9.9990	.0031	-.0300	0.323	-.0428	-.0608	-.0422	.0508	.0288
45.000	.1840	.1862	.1984	-.0056	-.0303	9.9990	-.0280	-.0503	-.0554	-.0601	-.0703	-.0385	.0014	.0135
67.500			.1404	-.0307	-.0401	.0311	-.0517	-.0652	-.0747	-.0652	-.0723	-.0483	-.0307	-.0080
90.000	.1072	.1072	.1130	-.0381	-.0459	.0193	-.0584	-.0648	-.0743	-.0645	-.0719	-.0506	-.0330	-.0104
112.500			.0983	-.0429	-.0493	-.0033	-.0595	-.0639	-.0754	-.0659	-.0767	-.0554	-.0361	-.0215
135.000	.0832	.0744	.0778	-.0473	-.0520	-.0337	-.0476	-.0564	-.0726	-.0703	-.0814	-.0571	-.0680	-.0290
157.500	.0826	.0694	.0626	-.0544	-.0500	-.0449	-.0493	-.0523	-.0642	-.0520	-.0699	-.0445	.0995	.0423
180.000	.0829	.0572	.0369	-.0642	-.0425	-.0598	-.0665	-.0486	9.9990	-.0111	-.0763	-.0361	.0930	.1323
202.500	.0809	.0464	.0440	-.0554	-.0489	-.0794	-.0824	-.0662	-.0276	-.0138	-.0574	-.0199	.0700	.0917
225.000	.0856	.0599	.0650	-.0368	-.0500	-.0889	-.0878	-.0625	-.0171	-.0107	-.0638	-.0077	.0491	.0491
247.000	.1219	.1717	.0917	.0822	-.0236	-.0919	-.0916	-.0608	-.0236	-.0050	-.0733	-.0297	.0667	.0355
270.000			.1981	.3138	.0715	-.0919	.0177	-.0435	-.0157	-.0113	-.0736	-.0344	.0051	.0457
292.500			.1627	.1204	.0998	-.0784	.1174	-.0033	.0436	.0274	-.0320	-.0256	.0085	.0457
315.000	.2426	.1928	.3353	.0267	.0653	.1083	.1001	-.0006	.0565	.0474	-.0500	-.0349	.0084	.0213
337.500	.2991	.2409	.2767	.0274	.0487	.1624	.0714	9.9990	.0325	.0311	-.0537	-.0361	.0234	.0041
360.000	.2920	.2852	.2531	-.0033	.0149	-.0016	.0453	-.0104	-.0043	-.0185	-.0510	-.0503	.0480	.0308

MSFC 567(1A32F) TO S3/2 S3/2 03 US SRM BOOSTER

(R82505) (24 APR 74)

REFERENCE DATA

SREF = 6.1880 SQ. IN. ZMRP = 2.5400 IN.
LREF = 5.3130 IN. YMRP = .9720 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040 SCALE

PARAMETRIC DATA

BETA = .000 CONF10 = 90.000
DELTAZ = .140 RUDDER = .000
X-SRE = .000 ORBINC = .500

MACH (1) = .600 ALPHA (1) = -8.000 Q = 4.3384 PTA = 22.008 RL = 4.9920 PSA = 17.268

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

Table with 11 columns: X/LS, PHI, and 9 dependent variables. Values range from -0.000 to 0.4225 for X/LS and -0.000 to 0.4225 for PHI.

MACH (1) = .600 ALPHA (2) = -5.000 Q = 4.3384 PTA = 12.009 RL = 4.9920 PSA = 17.268

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

Table with 11 columns: X/LS, PHI, and 9 dependent variables. Values range from 0.000 to 0.4225 for X/LS and 0.000 to 0.4225 for PHI.

MSFC 567(1A32F) T9 S3/2 S3/2 03 US SRM BOOSTER (R82505)

MACH (1) = .600 ALPHA (2) = -3.000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI			.0337	-.7036	.0767	-.2628	-.0099	.0089	.0356	.0991	-.6970	-.0428	.0256	-.0370
292.500		.3734	.3186	-.5399	.0411	-.1040	.0014	.0177	.0497	.0857	-.6940	-.0056	.2016	-.0970
315.000		.3981	-.2975	-.0152	-.5468	-.0059	-.0136	9.9990	.0367	.0639	-.5843	.0672	.2054	-.0519
337.500		.3424	.2230	-.0813	-.6497	-.0657	-.0813	-.0457	.0082	.0192	-.6086	.1088	.1891	.0430
360.000														

MACH (1) = .600 ALPHA (3) = .000 Q = 4.3384 PTA = 22.009 RL = 4.9920 PSA = 17.266

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI			-.2095	-.8002	-.0922	-.0694	-.0356	-.0050	.0395	.0756	-.5317	.1143	.1661	.0264
22.500		.1791	-.2275	-.7978	-.0940	-.0569	-.0338	-.0060	.0321	.0521	-.5002	.1321	.1874	.0893
45.000		.1498	.0459	-.2515	-.7618	-.1020	-.0552	-.0356	.0191	.0409	-.4775	.1629	.2421	.1263
67.500			-.2586	-.7946	-.0994	-.0472	-.0241	-.0051	.0216	.0363	-.4211	.1739	.2469	.1247
90.000		.1229	.0191	-.2749	-.7982	-.1088	-.0541	-.0249	.0137	.0266	-.3684	.1799	.2387	.1219
112.500			-.2809	-.6082	-.1127	-.0498	-.0205	-.0068	.0138	.0266	-.3387	.1870	.2497	.1311
135.000		.1213	.0146	-.2818	-.7491	-.1109	-.0472	-.0078	.0145	.0301	-.3516	.1766	.2554	.1412
157.500		.1230	.0093	-.2904	-.8455	-.1233	-.0534	-.0187	.0288	.0292	-.4094	.1520	.2525	.1579
180.000		.1338	.0076	-.2979	-.8564	-.1198	-.0694	-.0187	.0094	.0311	-.4211	.0747	.1642	.1278
202.500		.1482	.0148	-.3185	-.8915	-.1305	-.0908	-.0248	.0094	.0365	-.5032	.0379	.0994	.1161
225.000		.1845	.0513	-.3479	-.9823	-.1323	-.1416	-.0303	.0182	.0569	-.4871	-.0006	.0769	.0974
247.500		.2753	.2341	-.3077	-.1350	-.0513	-.2825	-.0240	.0280	.0872	-.2852	-.0346	.0617	.1024
270.000			-.0613	-.1443	.0452	-.3779	-.0311	.0012	.0367	.1141	-.2407	-.0150	.0626	.0324
292.500			-.1156	-.9010	.0478	-.1566	-.0266	.0145	.0626	.1362	-.5605	-.0142	.0562	-.0234
315.000		.2875	.1905	-.1735	-.8399	-.0271	-.0853	-.0232	.0108	.0685	-.1233	-.5658	.0246	-.1080
337.500		.2583	.1452	-.1726	-.7704	-.0600	-.0631	-.0241	.0561	.1109	-.5179	.0834	.2168	-.1080
360.000		.2049	.0940	-.2095	-.8002	-.0922	-.0694	-.0050	.0395	.0756	-.5317	.1143	.1661	.0264

MACH (1) = .600 ALPHA (4) = 5.000 Q = 4.3384 PTA = 22.009 RL = 4.9920 PSA = 17.266

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI			-.3210	-.8442	-.0089	-.0646	-.0161	.0194	.0732	.1232	-.4174	.1051	.1435	.0129
22.500		.0712	-.0235	-.3208	-.5916	-.0901	-.0469	-.0188	.0604	.1009	-.4002	.1295	.1992	.0853
45.000		.0726	-.0227	-.3117	-.8520	-.0905	-.0472	-.0269	.0011	.0448	-.0873	-.3608	.1557	.0713
67.500			-.2988	-.7761	-.1002	-.0561	-.0338	-.0103	.0315	.0756	-.3381	.1594	.1827	.0510
90.000		.0957	-.0013	-.2816	-.7822	-.1103	-.0652	-.0376	.0203	.0173	-.0650	.1629	.2453	.0876
112.500			-.2338	-.8050	-.1148	-.0538	-.0373	-.0263	.0039	.0477	-.3142	.1923	.2577	.1328
135.000		.1796	.0710	-.2226	-.8218	-.1085	-.0580	-.0339	.0022	.0365	-.3462	.2432	.3154	.1873
157.500		.2408	.1217	-.1840	-.7825	-.0991	-.0374	-.0144	.0008	.0458	-.3952	.2959	.3297	.2179

ORIGINAL PAGE IS OF POOR QUALITY

(R82505)

MSFC 567(1A32F) T9 S3/2 S3/2 03 US SRM BOOSTER

MACH (1) = .600 ALPHA (4) = 5.000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
180.000	.2910	.1603	-.1565	-.7606	-.0698	-.0347	.0007	.0143	9.9990	.0549	-.4256	.1466	.2504	.2074
202.500	.3256	.2038	-.1352	-.7704	-.0546	-.0373	.0087	.0232	.0411	.0682	-.5079	.0956	.1768	.1931
225.000	.3398	.2424	-.1224	-.8165	-.0226	-.0683	.0104	.0249	.0472	.0884	-.4566	.0169	.1195	.1574
247.500	.2638	.2156	-.0567	-.7872	.0687	-.1516	.0086	.0285	.0648	.1221	-.2454	-.0285	.0795	.1459
270.000			-.0775	-.1.2133	.0386	-.3862	-.0161	.0232	.0765	.1456	-.1786	-.0151	.0759	.0466
292.500			-.3834	-.1.0614	-.0916	-.4307	-.0143	.0309	.0945	.1668	-.4199	.0060	.0935	.0110
315.000	.1144	-.0156	-.3852	-.9077	-.0936	-.2084	-.0126	.0328	.0991	.1610	-.4617	.0477	.2116	-.0966
337.500	.0319	-.0236	-.3169	-.8159	-.0811	-.0992	-.0162	9.9990	.0917	.1578	-.4350	.0965	.1787	-.0613
350.000	.0650	-.0323	-.3210	-.8442	-.0869	-.0646	-.0161	.0194	.0732	.1232	-.4174	.1051	.1435	.0123

MACH (1) = .600 ALPHA (5) = 6.000 Q = 4.3394 PTA = 22.009 RL = 4.9920 PSA = 17.268

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	-.0151	-.1071	-.3712	-.7488	-.0983	-.1041	-.0185	.0174	.0726	.1330	-.4214	.1032	.1571	.0327
22.500	-.0135	-.1002	-.3589	-.8308	-.0958	-.0757	-.0320	-.0076	.0288	.0722	-.3871	.1244	.2026	.0876
45.000	-.0205	-.1045	-.3515	-.7486	-.1135	-.0845	-.0578	-.0227	.0263	.0767	-.3743	.1166	.1319	-.0117
67.500			-.3457	-.7752	-.1490	-.1129	-.0853	-.0476	.0191	.0836	-.3645	.1264	.1355	-.0054
90.000	.0203	-.0637	-.3246	-.8023	-.1728	-.1321	-.1079	-.0834	-.0234	.0697	-.3596	.1454	.1666	.0240
112.500			-.2794	-.8585	-.1746	-.1241	-.1061	-.0924	-.0511	.0222	-.3333	.1695	.2191	.0829
135.000	.1774	.0731	-.2094	-.7532	-.1479	-.1036	-.0874	-.0826	-.0484	.0045	-.3708	.1989	.2387	.1554
157.500	.2880	.1671	-.1350	-.7147	-.1121	-.0997	-.0437	-.0317	-.0136	.0233	-.3945	.2142	.3242	.2135
180.000	.3760	.2426	-.0723	-.6644	-.0485	-.0320	.0046	.0165	9.9990	.0611	-.4208	.1948	.2973	.2486
202.500	.4178	.3039	-.0221	-.6305	-.0092	-.0213	.0338	.0431	.0583	.0928	-.4879	.1503	.2240	.2439
225.000	.4038	.3295	.0021	-.5779	.0269	-.0626	.0413	.0516	.0704	.1156	-.5276	.0440	.1620	.1928
247.500			.0315	-.6492	.0883	-.2018	.0312	.0423	.0807	.1600	-.2770	-.0220	.0879	.1713
270.000	.1753	.1105	-.1894	-.1.0736	-.1496	-.3976	-.0222	.0226	.0913	.1859	-.1507	-.0060	.0810	.0336
292.500			-.6043	-.1.0432	-.1788	-.4176	-.0034	.0345	.1053	.1762	-.3730	.0124	.0956	-.0029
315.000	-.0224	-.1607	-.4848	-.8225	-.1115	-.4144	.0018	.0371	.1096	.1696	-.4010	.0427	.1669	-.1010
337.500	-.0197	-.1299	-.3842	-.7936	-.0691	-.2110	.0045	9.9990	.1067	.1710	-.4096	.0910	.1603	-.0E02
360.000	-.0151	-.1071	-.3712	-.7488	-.0983	-.1041	-.0185	.0174	.0726	.1330	-.4214	.1032	.1571	.0327

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R02505)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 US SRM BOOSTER

MACH (2) = .900 ALPHA (1) = -8.000 Q = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.5518	.4408	.1852	-.7172	-.0650	-.3182	-.1251	-.0390	.0205	.0412	-.6581	-.0089	.1228	.0365
22.500	.4362	.3190	.0868	-.0451	-.1949	-.3414	-.1854	-.1098	-.0480	-.0501	-.6476	-.0593	.1904	.1515
45.000	.2970	.1869	-.0188	-.9350	-.3502	-.3473	-.2465	-.1877	-.1274	-.1193	-.6575	.0337	.1789	.1927
67.500			-.1048	-1.0188	-.4052	-.3835	-.2871	-.2098	-.1719	-.1604	-.6164	-.0077	.1098	.1192
90.000	.0590	-.0092	-.1602	-1.0854	-.4252	-.3436	-.2973	-.2129	-.1671	-.1314	-.5338	-.0182	.0671	.0514
112.500			-.1815	-1.0331	-.4585	-.3017	-.2581	-.1550	-.0943	-.0422	-.5381	-.0239	.0275	-.0056
135.000	.0139	-.0664	-.1994	-.9277	-.5074	-.2645	-.2096	-.1070	-.0688	-.0291	-.5606	-.0254	.0171	-.0403
157.500	.0287	-.0585	-.2013	-.9124	-.5190	-.2519	-.1684	-.0997	-.0798	-.0369	-.5783	-.0349	.0129	-.0418
180.000	.0315	-.0680	-.2131	-1.0605	-.4498	-.3290	-.1409	-.0899	9.9990	-.0779	-.5997	-.0778	-.0248	-.0611
202.500	-.0078	-.1280	-.2885	-.9567	-.6004	-.4196	-.1089	-.0300	-.0244	.0045	-.7051	-.1196	-.0223	.0303
225.000	-.0356	-.1956	-.4597	-.6697	-.6628	-.4517	-.1012	-.0048	.0159	.0635	-.5049	-.1754	-.0802	.0324
247.500			-.6388	-.6652	-.6650	-.4383	-.0841	.0228	.0446	.1037	-.3287	-.1829	-.1126	-.0362
270.000	.1534	.1247	.0306	-.7119	-.2427	-.4328	-.0731	.0292	.0514	.1327	-.3160	-.1695	-.1129	-.1149
292.500			.3638	-.6199	.1601	-.3416	-.0610	.0290	.0695	.1512	-.6160	-.1663	-.1087	-.1062
315.000	.5373	.5403	.3219	-.6563	.1370	-.2796	-.0475	.0250	.0803	.1423	-.6490	-.1455	.0180	-.1743
337.500	.6008	.5289	.2725	-.6946	.0633	-.2592	-.0704	9.9990	.0666	.1169	-.6353	-.0688	.0768	-.0905
360.000	.5518	.4408	.1852	-.7172	-.0650	-.3182	-.1251	-.0390	.0205	.0412	-.6581	-.0089	.1228	.0365

MACH (2) = .900 ALPHA (2) = -5.000 Q = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.4699	.3687	.1319	-.7830	-.0404	-.2505	-.1053	-.0186	.0403	.0842	-.6154	.0325	.1412	.0406
22.500	.3935	.2930	.0668	-.9314	-.1404	-.2340	-.1342	-.0538	.0016	.0212	-.6062	.0817	.1879	.1505
45.000	.2988	.2042	-.0048	-1.0094	-.2066	-.2294	-.1546	-.0957	-.0422	-.0185	-.6138	.0605	.1751	.1780
67.500			-.0452	-1.0307	-.2661	-.2240	-.1612	-.0919	-.0563	-.0417	-.5750	.0521	.1589	.1359
90.000	.1632	.0810	-.0877	-1.0586	-.2919	-.2093	-.1544	-.0877	-.0526	-.0301	-.5187	.0433	.1497	.1214
112.500			-.1067	-1.0182	-.3817	-.1880	-.1377	-.0589	-.0296	.0087	-.5107	.0385	.1118	.0914
135.000	.1214	.0343	-.1193	-1.0092	-.3741	-.1700	-.1140	-.0494	-.0123	.0260	-.5300	.0349	.0987	.0621
157.500	.1277	.0434	-.1149	-1.0825	-.4366	-.1833	-.0904	-.0249	-.0062	.0252	-.5251	.0197	.0717	.0413
180.000	.1253	.0323	-.1275	-1.0084	-.4498	-.2638	-.0825	-.0093	9.9990	.0261	-.5383	.0328	.0176	.0068
202.500	.1170	.0088	-.1762	-.9235	-.5246	-.3532	-.0757	.0268	.0244	.0649	-.6161	.0674	.0029	.0303
225.000	.1260	.0087	-.2551	-.7536	-.6427	-.4018	-.0834	.0203	.0445	.0959	-.4945	.1352	-.0357	.0449
247.500			-.2673	-.6904	-.6631	-.4028	-.0742	.0318	.0643	.1327	-.3206	.1578	-.0758	.0122
270.000	.2978	.2869	.1933	-.8080	-.1510	-.4086	-.0658	.0299	.0677	.1529	-.2881	.1497	-.0651	-.0529
292.500			.3490	-.7247	.1576	-.3151	.0605	.0339	.0820	.1660	-.5422	.1398	-.0795	-.0518
315.000	.5038	.4821	.2582	-.7824	.1120	-.2631	-.0636	.0108	.0819	.1594	-.5960	-.1075	.0522	.1628
337.500	.5229	.4526	.2073	-.7934	.0559	-.2377	-.0815	9.9990	.0677	.1429	-.6181	-.0287	.1145	-.0748
360.000	.4699	.3687	.1319	-.7830	-.0404	-.2505	-.1053	-.0186	.0403	.0842	-.6154	.0325	.1412	.0406

ORIGINAL PAGE IS OF POOR QUALITY

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

DATE 05 SEP 75

MACH (2) = .900 ALPHA (3) = .000 Q = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

(R02S05)

MSFC 567(1A32F) T9 S3/2 S3/2 03 U5 SRM BOOSTER

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.3288	.2435	.0330	-.9388	-.0751	-.1225	-.0770	.0084	.0749	.1471	-.5684	.0629	.1387	.0273
22.500	.3018	.2172	.0181	-1.0227	-.1288	-.0950	-.0732	.0077	.0674	.1210	-.5564	.0908	.1636	.1162
45.000	.2730	.1968	-.0003	-1.0335	-.1938	-.0754	-.0632	.0035	.0599	.1128	-.5478	.1013	.1930	.1477
67.500			-.0104	-1.0377	-.2663	-.0560	-.0469	.0087	.0588	.1049	-.5170	.1194	.2261	.1756
90.000	.2493	.1649	-.0150	-1.0369	-.3146	-.0459	-.0347	.0108	.0550	.0968	-.4649	.1251	.2089	.1654
112.500			-.0192	-1.0437	-.3726	-.0370	-.0248	.0120	.0527	.0941	-.4322	.1247	.2068	.1695
135.000	.2482	.1602	-.0136	-1.0336	-.4379	-.0323	-.0202	.0075	.0512	.0949	-.4414	.1150	.2194	.1943
157.500	.2473	.1550	-.0276	-1.0378	-.4732	-.0481	-.0185	.0148	.0462	.0918	-.4771	.0741	.1942	.1927
180.000	.2622	.1577	-.0350	-1.0293	-.4550	-.0898	-.0169	.0148	.0462	.0918	-.4771	.0741	.1942	.1927
202.500	.2837	.1827	-.0335	-1.0391	-.4801	-.1451	-.0174	.0147	.0507	.043	-.5650	-.0088	.0808	.1315
225.000	.3223	.2324	-.0197	-1.0487	-.5120	-.2074	-.0174	.0216	.0695	.1502	-.2895	-.1338	-.0422	.0297
247.000	.4109	.4199	.3517	-.8267	-.5087	-.2859	-.0538	.0069	.0820	.1791	-.2610	-.1211	-.0450	-.0715
292.500			.2368	-.8949	-.3506	-.1715	-.0501	.0255	.1064	.2091	-.5541	-.0769	.0959	-.1521
315.000	.4052	.3437	.0975	-.9793	-.0476	-.1381	-.0559	.0150	.1060	.2035	-.5541	-.0769	.0959	-.1521
337.500	.3710	.2664	.0627	-.9753	.0004	-.1245	-.0642	.0887	.1916	.1916	-.5864	.0072	.1466	-.0729
360.000	.3288	.2435	.0330	-.9388	-.0751	-.1225	-.0770	.0084	.0749	.1471	-.5684	.0629	.1387	.0273

MACH (2) = .900 ALPHA (4) = 9.000 Q = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1934	.1157	-.0508	-.9891	-.2636	-.0657	-.0494	.0352	.1169	.1876	-.5052	.0340	.0837	-.0050
22.500	.1837	.1115	-.0240	-1.0347	-.2464	-.0475	-.0536	.0266	.1049	.1643	-.4761	.0560	.1060	.0508
45.000	.1845	.1108	-.0240	-1.0354	-.2567	-.0314	-.0516	.0141	.0878	.1535	-.4607	.0823	.1569	.0629
67.500			-.0576	-.9825	-.2880	-.0334	-.0515	.0017	.0749	.1421	-.4400	.1012	.1508	.0579
90.000	.2042	.1247	-.0420	-1.0228	-.3910	-.0382	-.0542	-.0108	.0582	.1347	-.4319	.1128	.1739	.1153
112.500			-.0184	-1.0188	-.4699	-.0387	-.0453	-.0160	.0432	.1203	-.4167	.1395	.2342	.1652
135.000	.2566	.2041	.0150	-1.0032	-.5212	-.0345	-.0365	-.0170	.0380	.1047	-.4519	.1422	.2908	.2580
157.500	.3572	.2930	.0448	-.9653	-.4678	-.0272	-.0224	.0043	.0447	.1046	-.4683	.1378	.3057	.2895
180.000	.4171	.3059	.0813	-.9721	-.4662	-.0256	-.0015	.0287	.09990	.1217	-.4871	.0752	.1842	.2545
202.500	.4503	.3946	.1132	-.9521	-.4694	-.0376	.0055	.0363	.0781	.1378	-.4955	.0471	.0890	.1488
225.000	.4670	.4107	.1686	-.9219	-.3685	-.0701	.0061	.0422	.0872	.1566	-.5193	-.0592	.0485	.0962
247.000	.3882	.3870	.2895	-.8200	-.3642	-.1288	-.0088	.0370	.1027	.1913	-.5425	-.1436	-.0203	.0842
270.000			.3201	-.8011	-.3903	-.1958	-.0438	.0287	.1200	.2087	-.5284	-.1373	-.0246	.0034
292.500			-.0153	-.7021	-.6016	-.1755	-.0417	.0381	.1341	.2214	-.4357	-.1151	-.0214	-.0329
315.000	.2412	.1468	-.0889	-.8681	-.5236	-.1517	-.0338	.0417	.1390	.2256	-.4717	-.0605	.1045	-.1324
337.500	.2082	.1212	-.0682	-.9124	-.3589	-.0993	-.0411	.09990	.1286	.2202	-.5323	.0182	.243	-.0770
360.000	.1934	.1157	-.0508	-.9891	-.2636	-.0657	-.0494	.0352	.1169	.1876	-.5052	.0340	.0837	-.0050

MSFC 567(1A32F) T9 S3/2 S3/2 03 U5 SRM BOOSTER (RB2505)

MACH (2) = .900 ALPHA (5) = 8.000 Q = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.0284	-.1154	-.8962	-.3464	-.1629	-.0391	.0328	.1096	.1800	-.4806	.0280	.0904	-.0013
22.500	.0916	.0265	-.1115	-.8075	-.4000	-.0941	-.0594	.0041	.0699	.1271	-.4591	.0441	.1113	.0391
45.000	.0796	.0160	-.1250	-.6916	-.4384	-.0882	-.0812	-.0124	.0663	.1271	-.4500	.0468	.0854	-.0122
67.500	.1154	.0547	-.1193	-.8764	-.4138	-.1107	-.1088	-.0359	.0621	.1401	-.4287	.0605	.0903	-.0137
90.000	.1154	.0547	-.1027	-.9773	-.2954	-.1375	-.1314	-.0792	.0279	.1357	-.4323	.0937	.1359	.0423
112.500	.2972	.2034	-.0593	-.10209	-.1481	-.1428	-.1278	-.1006	-.0187	.0964	-.4238	.1119	.2039	.1209
135.000	.4076	.2963	.0133	-.9820	-.1374	-.1159	-.1016	-.0843	-.0167	.0715	-.4647	.1434	.3035	.2274
157.500	.5017	.3828	.0730	-.9984	-.0914	-.0635	-.0373	.0082	.0752	.1483	-.4837	.1483	.2993	.2850
180.000	.5387	.4440	.1876	-.9187	-.0142	-.023	-.0057	.0209	.0990	.1165	-.4843	.1062	.2383	.3228
202.500	.5247	.4779	.2454	-.8386	.0433	-.0859	.0265	.0569	.0984	.1653	-.4792	.0877	.1237	.2397
225.000	.2939	.2773	.3366	-.7314	.0605	-.1885	.0094	.0491	.1113	.1980	-.4167	-.1283	.0010	.1144
247.500	.0828	-.0152	.1987	-.7520	-.1687	-.3324	-.0245	.0500	.1360	.2216	-.2226	-.1368	-.0172	.0281
270.000	.0863	-.0010	-.3076	-.5525	-.5890	-.3295	-.0202	.0338	.1472	.2288	-.4157	-.1167	-.0105	-.0387
292.500	.0975	.0254	-.1150	-.8029	-.4047	-.2548	-.0214	.0990	.1417	.2271	-.4957	.0125	.1124	-.0684
315.000	.0975	.0254	-.1194	-.8962	-.3464	-.1629	-.0391	.0328	.1096	.1800	-.4806	.0280	.0904	-.0013

MACH (3) = 1.050 ALPHA (1) = -8.000 Q = 8.4402 PTA = 22.012 RL = 6.5720 PSA = 10.992

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.6090	.3878	-.4099	.1474	-.1393	-.2381	-.2225	.1565	.2190	-.6729	.0368	.2144	.1052
22.500	.6031	.4997	.3007	-.5313	.0256	-.2061	-.2650	-.3047	.0895	.1161	-.7165	.0761	.2893	.2675
45.000	.4644	.3757	.2042	-.6255	-.0887	-.2887	-.3031	-.3980	.0142	.0400	-.7133	.0414	.2345	.2327
67.500	.2378	.1847	.0634	-.7297	-.2825	-.3944	-.4196	-.3314	-.0348	-.0120	-.6900	.0043	.1631	.2205
90.000	.1867	.1240	.0231	-.7470	-.3821	-.2301	-.4358	-.1930	.0340	.1157	-.6222	.0021	.0449	.0531
112.500	.2121	.1355	.0298	-.7431	-.5491	-.1758	-.3639	-.1584	.0436	.1268	-.6333	.0102	.0545	.0128
135.000	.1959	.1240	.0085	-.7532	-.4739	-.2843	-.2146	-.1382	.0215	.1264	-.5966	-.0084	.0671	.0014
157.500	.1735	.0839	-.0546	-.7763	-.5095	-.4222	-.1343	-.0334	.1332	.1850	-.6195	-.1360	.0030	.0002
180.000	.1434	.0021	-.2320	-.6956	-.6083	-.4822	-.1045	-.0083	.1427	.2112	-.4412	-.2359	-.1051	.0772
202.500	.3026	.2925	-.4052	-.6198	-.6385	-.4578	-.1006	.0007	.1597	.2423	-.3268	-.2379	-.1606	.0073
225.000	.6726	.6897	.5101	-.3653	.3286	-.1376	-.1771	.1135	.2141	.3149	-.5905	-.1435	.0651	.2533
247.500	.7034	.6090	.3878	-.4099	.1474	-.1393	-.2381	-.2225	.1565	.2190	-.6729	.0368	.2144	.1052
270.000	.6726	.6897	.5101	-.3653	.3286	-.1376	-.1771	.1135	.2141	.3149	-.5905	-.1435	.0651	.2533
292.500	.7034	.6090	.3878	-.4099	.1474	-.1393	-.2381	-.2225	.1565	.2190	-.6729	.0368	.2144	.1052
315.000	.7034	.6090	.3878	-.4099	.1474	-.1393	-.2381	-.2225	.1565	.2190	-.6729	.0368	.2144	.1052
337.500	.7034	.6090	.3878	-.4099	.1474	-.1393	-.2381	-.2225	.1565	.2190	-.6729	.0368	.2144	.1052
350.000	.7034	.6090	.3878	-.4099	.1474	-.1393	-.2381	-.2225	.1565	.2190	-.6729	.0368	.2144	.1052

ORIGINAL PAGE IS OF POOR QUALITY

MSFC 567(1A32F) TO 53/2 53/2 03 US SRM BOOSTER

(R82505)

MACH (3) = 1.050 ALPHA (2) = -5.000 Q = 8.4402 PTA = 22.012 RL = 6.5720 PSA = 10.992

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.5349	.3328	-.4923	.1544	-.1345	-.1835	-.2241	.1603	.2529	-.6453	.0626	.2294	.1290
22.500	.5954	.4684	.2782	-.6054	.0569	-.1615	-.2008	-.2532	.1256	.1861	-.6857	.1054	.2815	.2657
45.000	.4728	.3997	.2273	-.6509	-.0363	-.1902	-.2285	-.2673	.0882	.1421	-.6681	.0794	.2347	.2818
67.500	.3389	.2741	.1440	-.6981	-.1461	-.1811	-.2523	-.2482	.0719	.1134	-.6410	.0657	.1934	.2338
90.000	.1186	-.7114	-.4743	-.1011	-.2624	-.1716	.0850	.0950	.1578	.1188	-.5985	.0530	.1604	.1964
112.500	.2842	.2302	.1147	-.7115	-.5134	-.0833	-.2076	-.1305	.0950	.1750	-.6091	.0645	.1160	.1088
157.500	.2865	.2151	.0923	-.7161	-.5243	-.1098	-.1528	-.0971	.0859	.1732	-.5534	.0390	.1174	.0899
180.000	.2853	.1979	.0553	-.7515	-.3877	-.3288	-.0789	-.0387	.1261	.2098	-.5821	-.0806	.0306	.0921
202.500	.2800	.1939	-.0265	-.7827	-.4748	-.4487	-.0639	-.0209	.1393	.2282	-.3789	-.1935	-.0650	.0856
225.00	.4136	.4295	-.0518	-.7246	-.5497	-.4583	-.0607	-.0187	.1543	.2491	-.3031	-.2167	-.1241	.0230
270.000	.6093	.6202	.5058	-.5234	-.0551	-.4597	-.0995	-.0506	.1660	.2776	-.2931	-.1875	-.1125	-.0979
292.500	.6450	.6050	.4407	-.4894	.2951	-.3169	-.1340	-.1083	.1855	.3148	-.5149	-.1647	-.0931	-.0628
315.000	.6200	.5349	.3329	-.4993	.1544	-.1345	-.1835	-.2241	.1603	.2529	-.6453	.0626	.2294	.1290

MACH (3) = 1.050 ALPHA (3) = .000 Q = 8.4402 PTA = 22.012 RL = 6.5720 PSA = 10.992

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.4140	.2442	-.6514	-.2223	-.0840	-.0288	-.1181	.1972	.3096	-.5535	.1070	.2052	.3920
22.500	.4836	.3967	.2327	-.5969	-.2794	-.0432	-.0307	-.1289	.1886	.2838	-.5572	.1409	.2324	.2162
45.000	.4405	.3731	.2195	-.6688	-.3488	-.0190	-.0353	-.1258	.1841	.2729	-.5474	.1442	.2617	.2614
67.500	.4210	.3531	.2060	-.6667	-.3945	-.0007	-.0276	-.1007	.1804	.2641	-.5250	.1723	.3209	.2967
90.000	.4188	.3493	.2043	-.6703	-.4139	.0112	-.0266	-.0755	.1730	.2566	-.4912	.1987	.3229	.2978
112.500	.4233	.3507	.2030	-.6710	-.4249	.0066	-.0161	-.0550	.1685	.2540	-.4518	.1690	.2760	.2769
157.500	.4119	.3531	.2050	-.6791	-.4396	-.0208	-.0147	-.0224	.1570	.2453	-.4267	.1312	.2341	.2659
180.000	.4256	.3756	.2095	-.6831	-.4524	-.0624	-.0174	-.0146	.1490	.2329	-.4780	.0784	.1637	.2232
202.500	.4531	.4206	.2185	-.6935	-.4827	-.1373	-.0206	-.0082	.1592	.2564	-.4920	.0289	.0709	.1520
225.000	.5218	.5793	.3241	-.6334	-.5257	-.2272	-.0224	.0017	.1709	.2737	-.4991	-.0803	.0232	.0920
270.000	.5161	.5090	.4258	-.5476	-.0965	-.1764	-.0275	-.0466	.1660	.3008	-.2714	-.1470	-.0316	.0524
292.500	.4916	.4545	.2765	-.6267	-.0971	-.1478	-.0243	-.0655	.1932	.3221	-.2342	-.1369	-.0321	.0031
315.000	.4823	.4140	.2442	-.6514	-.2223	-.0840	-.0288	-.1181	.1972	.3096	-.5535	.1070	.2052	.3920
337.500	.4823	.4140	.2442	-.6514	-.2223	-.0840	-.0288	-.1181	.1972	.3096	-.5535	.1070	.2052	.3920

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(RB2505)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 US SRM BOOSTER

MACH (3) = 1.050 ALPHA (4) = 5.000 Q = 8.4402 PTA = 22.012 RL = 6.5720 PSA = 10.952

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	PHI	0.433	.0722	.1013	.1150	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.3329	.2766	.1361	-.6998	-.3888	-.0543	.0172	.0058	.2244	.3234	-.4391	.1057	.1720	.0639	
22.500	.3305	.2716	.1466	-.6959	-.4503	.0056	.0225	-.0129	.2218	.3050	-.4308	.1328	.2379	.1850	
45.000	.3229	.2693	.1412	-.7070	-.4790	.0305	.0181	-.0390	.2057	.2854	-.4221	.1769	.3185	.2169	
67.500	.3585	.2982	.1495	-.6995	-.4763	.0374	.0195	-.0454	.1981	.2857	-.4085	.1934	.2637	.1770	
90.000	.4534	.3818	.2214	-.6734	-.4081	.0043	.0213	-.0339	.1613	.2728	-.4010	.2266	.3361	.2316	
112.500	.5078	.4264	.2995	-.6440	-.3742	-.0295	.0218	-.0215	.1503	.2524	-.4218	.2193	.3159	.2491	
135.000	.5355	.4710	.3197	-.6339	-.3051	-.1047	.0237	.0338	.09990	.2555	-.4409	.1409	.2460	.2474	
157.500	.5531	.5148	.3659	-.5855	-.4251	-.1371	.0228	.0466	.1846	.2821	-.4901	.0071	.1079	.1592	
180.000	.4538	.5169	.4746	-.5117	-.3900	-.2052	-.0046	.0462	.1987	.3115	-.3726	-.1024	-.0105	.1477	
202.500	.3371	.3050	.1547	-.6766	-.4989	-.2543	.0196	.0563	.2394	.3390	-.3439	-.0925	-.0135	.0156	
225.000	.3143	.2827	.1054	-.7377	-.3726	-.1779	.0204	.0534	.2441	.3404	-.3909	-.0316	.1393	.1250	
247.500	.3329	.2766	.1361	-.6998	-.3888	-.0543	.0172	.0058	.2244	.3234	-.4391	.1057	.1720	.0639	

MACH (3) = 1.050 ALPHA (5) = 8.000 Q = 8.4402 PTA = 22.012 RL = 6.5720 PSA = 10.952

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	PHI	0.433	.0722	.1013	.1150	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.2362	.1829	.0665	-.7153	-.3036	-.1159	.0380	.0609	.2214	.3178	-.4045	.0954	.1782	.0724	
22.500	.2300	.1839	.0788	-.7311	-.4057	-.0387	.0170	.0166	.1696	.2590	-.3885	.1166	.2135	.1284	
45.000	.2163	.1734	.0748	-.7293	-.5146	-.0208	.0002	.0020	.1778	.2640	-.3910	.1275	.1815	.0764	
67.500	.2639	.2212	.0821	-.7260	-.5114	-.0268	-.0139	-.0202	.1750	.2832	-.3729	.1518	.1960	.0502	
90.000	.4497	.3750	.2174	-.6832	-.4568	-.0606	-.0358	-.0576	.1429	.2766	-.3978	.1870	.2459	.1469	
112.500	.5553	.4668	.2774	-.6028	-.2146	-.1476	-.0271	.0258	.1187	.2213	-.4223	.2153	.3779	.2512	
135.000	.6239	.5430	.3366	-.5879	-.1836	-.1059	.0126	.0766	.09990	.2488	-.4170	.1861	.3145	.2498	
157.500	.6498	.6032	.3900	-.5497	-.2029	-.0914	.0384	.0995	.1868	.2746	-.4214	.1685	.2031	.2575	
180.000	.6149	.6195	.4360	-.5090	-.1495	-.1131	.0395	.1020	.1955	.2892	-.4700	.0524	.1392	.2163	
202.500	.3767	.4075	.5074	-.4082	.0146	-.1841	.0335	.1047	.2095	.3138	-.3646	-.0753	.0255	.1829	
225.000	.2010	.1293	.3517	-.5454	-.1126	-.2791	.0358	.1108	.2327	.3307	-.4423	-.0959	.0259	.0506	
247.500	.2020	.1601	.3777	-.4847	-.4936	-.2907	.0341	.1105	.2489	.3320	-.2667	-.0797	.0284	.0147	
270.000	.2362	.1829	.0665	-.7153	-.3036	-.1159	.0380	.0609	.2214	.3178	-.4045	.0954	.1782	.0724	
292.500															
315.000															
337.500															
360.000															

ORIGINAL PAGE IS OF POOR QUALITY

(R2E2951)

MSFC 567(1A3ZF) TO 53/2 53/2 03 US SRM BOOSTER

MACH (4) = 1.250 ALPHA (1) = -8.000 Q = 9.2798 PTA = 22.012 RL = 6.6900 PSA = 8.5490

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	PHI	0.433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.6221	.6240	.4928	-.2925	.2841	-.0106	-.0910	-.1762	-.1018	.1536	-.6507	-.0309	.1968	.1251	
22.500	.5369	.5306	.4194	-.3514	.1553	-.0776	-.1581	-.2489	-.1751	.0544	-.6702	-.0683	.1584	.2644	
45.000	.4115	.4177	.3357	-.3923	-.0137	-.1599	-.2419	-.3185	-.2703	-.0394	-.6870	-.0528	.0922	.3113	
67.500			.2480	-.4306	-.2056	-.2520	-.3457	-.3508	-.2311	-.1236	-.6520	-.0098	.1059	.2607	
90.000	.1665	.2206	.1792	-.4632	-.3348	-.2827	-.3551	-.3983	-.2120	-.0547	-.5763	-.0131	.0310	.1693	
112.500			.1328	-.4846	-.3872	-.3079	-.3342	-.2755	-.1697	.0276	-.5336	-.0127	.0599	.0726	
135.000	.0916	.1498	.1055	-.4957	-.4112	-.1814	-.3328	-.2158	-.1737	.0314	-.5303	-.0098	.0379	.0410	
157.500	.1464	.1489	.0881	-.4977	-.4170	-.1368	-.2670	-.2000	-.2572	.0356	-.5273	-.0370	.0742	.0260	
180.000	.1262	.1478	.0711	-.4945	-.4055	-.2123	-.2025	-.1738	9.9990	.0565	-.5081	-.0830	.0347	-.0330	
202.500	.1170	.1139	.0097	-.5433	-.4029	-.3603	-.1276	-.0735	.0533	.1427	-.4860	-.1313	.0102	.0753	
225.000	.1036	.0705	-.1446	-.5153	-.4805	-.4004	-.0818	-.0364	-.0358	.1776	-.3991	-.2090	-.1131	.2226	
247.500			-.1675	-.5117	-.5178	-.3935	-.0505	-.0358	-.0308	.2066	-.3318	-.2423	-.1726	-.0353	
270.000	.2794	.4141	.4235	-.3369	.0857	-.3878	-.1189	-.0706	-.0367	.2489	-.3811	-.2442	-.1785	-.1127	
292.500			.6572	-.1326	.4845	-.1442	-.0489	-.0913	-.0545	.2874	-.3956	-.2512	-.1872	-.1157	
315.000	.5749	.6981	.6038	-.2132	.4674	-.0300	-.1038	-.0682	-.0882	.2834	-.4480	-.1941	.0354	-.2205	
337.500	.6383	.6948	.5669	-.2528	.4019	-.0186	-.0431	9.9990	-.0840	.2513	-.5184	-.0772	.1997	-.2219	
360.000	.6221	.6240	.4928	-.2925	.2841	-.0106	-.0910	-.1762	-.1019	.1636	-.6507	-.0309	.1968	.1251	

MACH (4) = 1.250 ALPHA (2) = -5.000 Q = 9.2798 PTA = 22.012 RL = 6.6900 PSA = 8.5490

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	PHI	0.433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5489	.6570	.7653	.8834	.9122	.9555
.000	.4876	.5277	.4393	-.3457	-.0281	-.0166	-.0680	-.1395	-.1158	.2147	-.6003	-.0118	.1675	.0932	
22.500	.4200	.4633	.3931	-.3659	-.1164	-.0424	-.1053	-.1714	-.1352	.1188	-.6174	-.0299	.1506	.2403	
45.000	.3367	.3914	.3403	-.3943	-.2014	-.0898	-.1443	-.2013	-.1344	.0452	-.6314	-.0004	.1320	.2524	
67.500			.2942	-.4104	-.2611	-.1095	-.1661	-.2027	-.1511	.0211	-.5732	.0128	.1739	.2485	
90.000	.1709	.2709	.2546	-.4267	-.3041	-.1649	-.1860	-.1993	-.1569	.0627	-.4987	.0225	.1260	.1929	
112.500			.2310	-.4398	-.3383	-.1632	-.1836	-.1561	-.1278	.1003	-.4694	.0335	.0502	.1379	
135.000	.0892	.2177	.2101	-.4473	-.2571	-.1135	-.1702	-.1287	-.1087	.0970	-.4521	.0335	.1113	.1257	
157.500	.1148	.2098	.1706	-.4571	-.3789	-.1023	-.1269	-.0982	-.1053	.1007	-.4962	.0337	.1383	.1093	
180.000	.1447	.2018	.1618	-.4673	-.3903	-.2108	-.0979	-.0770	9.9990	.0835	-.4844	-.0118	.0774	.2889	
202.500	.1841	.2187	.1148	-.4808	-.3881	-.3301	-.0812	-.0513	-.0308	.1428	-.4081	-.0810	.0424	.1221	
225.000	.2308	.2310	.0970	-.4981	-.4249	-.4058	-.0575	-.0354	-.0344	.1789	-.3564	-.1703	.0312	.0618	
247.500			.1099	-.4988	-.2707	-.4056	-.0250	-.0300	-.0244	.2032	-.3037	-.2134	.1333	.0795	
270.000	.3705	.5138	.5374	-.2932	-.1944	-.3895	-.0579	-.0562	-.0335	.2479	-.3491	-.2149	.0324	.0757	
292.500			.6331	-.1997	.0697	-.1395	-.0023	-.0824	-.0436	.3025	-.3763	-.2113	-.0440	-.0681	
315.000	.4936	.6182	.5366	-.2834	.0472	-.0574	-.0035	-.0622	-.1003	.3132	-.2657	-.0544	.0503	.2241	
337.500	.5027	.5912	.4929	-.3165	-.2152	.0041	-.0404	9.9990	-.0846	.2901	-.5000	-.0522	.1500	.0230	
360.000	.4876	.5277	.4393	-.3457	-.0281	-.0166	-.0680	-.1395	-.1158	.2147	-.6003	-.0118	.1675	.0932	

TABULATED SOURCE DATA, MSFC THT 567 (1A32F)

MSFC 567(1A32F) 19 S3/2 S3/2 03 US SRM BOOSTER (R82505)

DATE 05 SEP 75

MACH (4) = 1.250 ALPHA (3) = .000 Q = 9.2798 PTA = 22.012 RL = 6.6900 PSA = 8.5430

DEPENDENT VARIABLE CP

SECTION (1)SRM BOOSTER

X/LS	PHI	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.2779	.3644	.3403	-.3826	-.2073	.0252	-.0506	-.0581	-.0288	.2996	-.5125	.0450	.1941	.1952	.2525
22.500	.2179	.3573	.3361	-.3853	-.2220	.0381	-.0774	-.0582	-.0580	.2440	-.5268	.0505	.1922	.2053	.2655
45.000	.1906	.3380	.3281	-.3929	-.2429	.0331	-.0706	-.0554	-.0785	.2157	-.5395	.0895	.2457	.2618	.3210
67.500	.1535	.2812	.3154	-.3942	-.2679	-.0454	-.0137	-.0200	-.0588	.1985	-.5104	.0729	.2850	.2911	.3503
90.000	.1042	.2937	.3020	-.3998	-.2786	-.1346	.0078	-.0141	-.0417	.1913	-.4054	.0340	.3273	.3325	.3917
112.500	.2124	.3107	.2941	-.4028	-.2948	-.1138	.0032	-.0041	-.0131	.1677	-.3732	.0254	.1581	.1633	.2225
135.000	.2042	.3653	.3012	-.4103	-.3074	-.1425	.0107	-.0008	.09950	.1631	-.4082	.0312	.1443	.1495	.2087
157.500	.2289	.3925	.3025	-.4171	-.3562	-.1631	-.0062	-.0091	.0059	.1675	-.3757	-.0380	.0579	.0631	.1223
180.000	.2553	.4497	.3246	-.4244	-.3939	-.1835	-.0199	-.0107	.0138	.1650	-.3541	-.0399	-.0332	-.0384	.0975
202.500	.3003	.6136	.4495	-.3671	-.4262	-.2479	-.0062	-.0423	.0320	.1979	-.2909	-.1476	-.0273	-.0325	.0927
225.000	.2617	.4907	.5073	-.3210	-.2822	-.1027	.0158	-.0390	.0342	.2351	-.3297	-.1409	-.0549	-.0601	.1179
247.500	.2446	.4353	.3614	-.3777	-.2336	.0434	-.0449	.09930	-.0359	.3680	-.4949	.0347	.2254	.2306	.2898
270.000	.2779	.3844	.3403	-.3826	-.2073	.0252	-.0506	-.0591	-.0288	.2996	-.5125	.0450	.1941	.1952	.2525

MACH (4) = 1.250 ALPHA (4) = 5.000 Q = 9.2798 PTA = 22.012 RL = 6.6900 PSA = 8.5430

DEPENDENT VARIABLE CP

SECTION (1)SRM BOOSTER

X/LS	PHI	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.1356	.1864	.2012	-.4388	-.2756	-.0121	-.0352	-.0119	.0778	.3102	-.3813	.0634	.1745	.1797	.2389
22.500	.0725	.1964	.2124	-.4300	-.2935	.0286	-.0706	-.0086	.0429	.2581	-.4024	.0698	.2678	.2730	.3322
45.000	.0612	.2033	.2181	-.4362	-.3157	.0241	-.0593	-.0050	.0027	.2204	-.3999	.1693	.3522	.3574	.4166
67.500	.1573	.2261	.2350	-.4361	-.3238	-.0200	-.0406	.0005	-.0196	.2289	-.3381	.1212	.3341	.3393	.3985
90.000	.1042	.2937	.2877	-.4272	-.3141	-.1168	-.0298	.0030	-.0342	.2308	-.3019	.1329	.2417	.2469	.3061
112.500	.2091	.3413	.3221	-.3957	-.2908	-.1429	-.0140	.0029	-.0317	.2245	-.3092	.1493	.2532	.2584	.3176
135.000	.2681	.4047	.3552	-.3837	-.2368	-.0655	-.0040	-.0036	-.0122	.1859	-.3352	.1695	.3124	.3176	.3768
157.500	.4214	.4809	.3990	-.3752	-.2125	-.0633	-.0047	.0090	.0105	.1518	-.4724	.1648	.3339	.3391	.3983
180.000	.4512	.5325	.4315	-.3622	-.2125	-.0633	-.0047	.0090	.0105	.1518	-.4724	.1648	.3339	.3391	.3983
202.500	.4474	.5829	.4890	-.3338	-.2338	-.0592	-.0102	.0105	.0599	.1519	-.4215	.1359	.3267	.3319	.3911
225.000	.3573	.5420	.5796	-.2633	-.3397	-.2196	-.0036	.0032	.0076	.1622	-.4074	.0591	.3174	.3226	.3818
247.500	.2621	.4714	.4847	-.4714	-.4217	-.0947	-.0211	.0054	.0599	.1967	-.4269	.0203	.3081	.3133	.3725
270.000	.1530	.2621	.1847	-.4892	-.3790	-.1947	-.0138	.0076	.1258	.2477	-.1900	.0833	.2988	.3040	.3632
292.500	.1118	.2331	.1784	-.4615	-.3002	-.0812	.0212	.09990	.0997	.3659	-.3907	.0005	.2864	.2916	.3508
315.000	.1356	.1864	.2012	-.4388	-.2756	-.0121	-.0352	-.0119	.0778	.3102	-.3813	.0634	.1745	.1797	.2389

(REVERSE)

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	PHI	0.000	0.0995	0.0982	0.0720	-0.4781	-0.2879	-1.039	-0.081	0.0922	0.2976	-0.3304	0.0596	0.1822	0.2397
22.500	0.0174	0.1041	0.0909	0.0837	-0.3446	-0.6510	-0.0599	-0.196	0.003	0.1998	-0.3398	0.0320	0.2823	0.1483	
45.000	-0.0148	0.1013	0.0976	0.0851	-0.3850	-0.6822	-0.0814	-0.258	0.000	0.1695	-0.3252	0.0207	0.2845	0.1415	
67.500	0.1187	0.0724	0.0976	0.0851	-0.3812	-0.1496	-0.0835	-0.196	-0.120	0.2130	-0.3535	0.0175	0.1555	0.1107	
90.000	0.1593	0.0611	0.0934	0.0812	-0.3548	-0.2765	-0.0844	-0.142	-0.0600	0.2120	-0.3129	0.0201	0.2431	0.1471	
112.500	0.2281	0.0332	0.0934	0.0812	-0.3085	-0.2000	-0.0536	-0.099	-0.0849	0.2070	-0.3420	0.0159	0.3393	0.2455	
135.000	0.3031	0.0607	0.0877	0.0792	-0.2485	-0.1467	-0.0711	-0.102	-0.0575	0.1942	-0.3725	0.0102	0.3733	0.3412	
157.500	0.4678	0.0626	0.0775	0.0697	-0.1849	-0.0768	-0.0325	-0.035	0.0165	0.9990	1.102	-0.4133	0.1530	0.4123	
180.000	0.5371	0.0528	0.0445	0.0354	-0.1392	-0.0402	-0.0358	0.0165	0.9990	1.102	-0.4133	0.1530	0.1530	0.4123	
202.500	0.5653	0.0127	0.0496	0.0329	-0.1413	-0.0368	-0.0004	0.0348	0.1607	0.607	-0.7559	0.0597	0.295	0.320	
225.000	0.5258	0.6427	0.0495	0.2865	-0.1804	-0.0705	-0.0124	0.0424	0.850	0.1974	-0.4341	0.0193	0.0907	0.395	
247.500	0.2958	0.4692	0.5008	0.2932	-0.3300	-0.2516	-0.0059	0.0432	1.050	0.2235	-0.1672	0.0554	0.0102	0.477	
270.000	0.0832	0.1112	0.0820	0.0435	-0.2062	-0.1858	0.0145	0.0432	1.333	0.2316	-0.1787	0.0102	0.0102	0.573	
292.500	0.0584	0.1293	0.0501	0.0515	-0.3157	-0.1810	0.0258	0.9990	1.355	0.3352	-0.3408	0.0335	0.1701	0.651	
315.000	0.0595	0.0982	0.0720	0.0478	-0.2879	-0.1038	-0.0081	0.0192	0.922	0.2576	-0.3304	0.0335	0.1652	0.6397	

MACH (5) = 3.500 ALPHA (1) = -8.000 Q = 5.7168 PTA = 50.011 RL = 5.3300 PSA = 6.500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	PHI	0.000	0.4317	0.3907	0.3718	0.0454	0.0823	0.0954	0.1218	0.0376	0.0396	0.5582	0.053	0.1571	0.315
22.500	0.0174	0.1041	0.0909	0.0837	-0.3446	-0.6510	-0.0599	-0.196	0.003	0.1998	-0.3398	0.0320	0.2823	0.1483	
45.000	-0.0148	0.1013	0.0976	0.0851	-0.3850	-0.6822	-0.0814	-0.258	0.000	0.1695	-0.3252	0.0207	0.2845	0.1415	
67.500	0.1187	0.0724	0.0976	0.0851	-0.3812	-0.1496	-0.0835	-0.196	-0.120	0.2130	-0.3535	0.0175	0.1555	0.1107	
90.000	0.1593	0.0611	0.0934	0.0812	-0.3548	-0.2765	-0.0844	-0.142	-0.0600	0.2120	-0.3129	0.0201	0.2431	0.1471	
112.500	0.2281	0.0332	0.0934	0.0812	-0.3085	-0.2000	-0.0536	-0.099	-0.0849	0.2070	-0.3420	0.0159	0.3393	0.2455	
135.000	0.3031	0.0607	0.0877	0.0792	-0.2485	-0.1467	-0.0711	-0.102	-0.0575	0.1942	-0.3725	0.0102	0.3733	0.3412	
157.500	0.4678	0.0626	0.0775	0.0697	-0.1849	-0.0768	-0.0325	-0.035	0.0165	0.9990	1.102	-0.4133	0.1530	0.4123	
180.000	0.5371	0.0528	0.0445	0.0354	-0.1392	-0.0402	-0.0358	0.0165	0.9990	1.102	-0.4133	0.1530	0.1530	0.4123	
202.500	0.5653	0.0127	0.0496	0.0329	-0.1413	-0.0368	-0.0004	0.0348	0.1607	0.607	-0.7559	0.0597	0.295	0.320	
225.000	0.5258	0.6427	0.0495	0.2865	-0.1804	-0.0705	-0.0124	0.0424	0.850	0.1974	-0.4341	0.0193	0.0907	0.395	
247.500	0.2958	0.4692	0.5008	0.2932	-0.3300	-0.2516	-0.0059	0.0432	1.050	0.2235	-0.1672	0.0554	0.0102	0.477	
270.000	0.0832	0.1112	0.0820	0.0435	-0.2062	-0.1858	0.0145	0.0432	1.333	0.2316	-0.1787	0.0102	0.0102	0.573	
292.500	0.0584	0.1293	0.0501	0.0515	-0.3157	-0.1810	0.0258	0.9990	1.355	0.3352	-0.3408	0.0335	0.1701	0.651	
315.000	0.0595	0.0982	0.0720	0.0478	-0.2879	-0.1038	-0.0081	0.0192	0.922	0.2576	-0.3304	0.0335	0.1652	0.6397	

DATE 05 SEP 75

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

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MSFC 567(1A32F) T9 S3/2 S3/2 03 US SRM BOOSTER

1925253

MACH (5) = 3.500 ALPHA (2) = -5.000 Q = 5.7168 PTA = 50.011 RL = 5.3333 FSA = 5.5555

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9555
PH1													
.000	.3437	.3102	.2872	.0152	.0264	.0545	.0902	.0156	.0274	.0118	.0392	.0053	.0013
22.500	.3126	.3018	.2943	.0125	.0010	.0037	.0393	-.0025	-.0026	-.0090	-.0255	-.0173	.0018
45.000	.2802	.2958	.2818	.0118	-.0121	-.0030	.0125	-.0144	-.0248	-.0273	-.0354	-.0245	.0022
67.500			.2199	-.0040	-.0212	-.0155	-.0121	-.0270	-.0412	-.0456	-.0584	-.0320	.0023
90.000	.1820	.1837	.1838	-.0117	-.0276	-.0212	-.0260	-.0334	-.0465	-.0469	-.0571	-.0337	.0022
112.500			.1648	-.0195	-.0344	-.0232	-.0280	-.0351	-.0530	-.0445	-.0550	-.0317	.0023
135.000	.1458	.1394	.1337	-.0280	-.0408	-.0212	-.0270	-.0456	-.0550	-.0415	-.0425	-.0346	.0023
157.500	.1394	.1255	.1130	-.0395	-.0391	-.0228	-.0314	-.0440	-.0594	-.0415	-.0591	-.0333	.0023
180.000	.1357	.1053	.0853	-.0503	-.0307	-.0310	-.0465	-.0510	-.0700	-.0351	-.0565	-.0342	.0023
202.500	.1336	.0966	.0949	-.0354	-.0456	-.0638	-.0628	-.0594	-.0327	-.0374	-.0278	-.0153	.0023
225.000	.1303	.0829	.0944	-.0161	-.0337	-.0839	-.0730	-.0574	-.0314	-.0107	-.0381	-.0123	.0023
247.500			.1556	.1387	-.0095	-.0895	-.0784	-.0503	-.0242	-.0426	-.0259	-.0123	.0023
270.000	.1556	.1330	.4334	.4337	.0934	.9502	.0173	-.0165	-.0235	-.0104	-.0435	-.0302	.0023
292.500			.3116	.2473	.1168	-.0678	.1201	.0376	.0236	.0576	.0118	-.0124	.0023
315.000	.2764	.2162	.2095	.0626	.1065	-.0226	.1154	.0395	.0416	.0263	.0305	-.0145	.0023
337.500	.3386	.2734	.2693	.0179	.0393	.0562	.1201	9.9990	.0379	.1350	.1350	.0123	.0023
360.000	.3437	.3102	.2872	.0152	.0264	.0545	.0902	.0156	.0274	.0118	.0392	.0053	.0013

MACH (5) = 3.500 ALPHA (3) = .000 Q = 5.7168 PTA = 50.011 RL = 5.3333 FSA = 5.5555

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSTER

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9555
PH1													
.000	.2226	.1955	.1773	-.0155	-.0023	-.0002	.0254	-.0043	.0102	.0081	.0358	.0125	.0013
22.500	.2152	.2057	.1962	-.0134	-.0144	-.0165	.0146	.0027	-.0039	.0075	-.0133	-.0215	.0023
45.000	.2033	.2033	.1996	-.0111	-.0246	-.0097	-.0023	.0058	-.0050	.0021	-.0428	.0047	.0023
67.500			.1983	-.0094	-.0242	-.0037	-.0029	.0081	-.0023	.0017	-.0391	.0169	.0023
90.000	.1918	.1979	.1979	-.0070	-.0226	-.0097	-.0029	.0059	.0007	.0017	-.0354	.0217	.0023
112.500			.1972	-.0088	-.0244	-.0091	-.0064	-.0065	-.0027	-.0010	-.0310	.0261	.0023
135.000	.1932	.1932	.1955	-.0124	-.0280	-.0087	-.0117	-.0107	-.0019	-.0010	-.0354	.0267	.0023
157.500	.2034	.1996	.1905	-.0168	-.0239	-.0209	-.0226	-.0185	-.0055	.0010	-.0339	.0267	.0023
180.000	.2297	.1976	.1715	-.0283	-.0012	.0017	-.0341	-.0155	9.9990	.0010	.0511	.0395	.0023
202.500	.2263	.1698	.1607	-.0202	-.0144	-.0141	-.0429	-.0189	-.0012	.0010	.0459	.0346	.0023
225.000	.2087	.1458	.1851	.0139	.0230	-.0621	-.0378	-.0347	-.0161	.0010	.0459	.0346	.0023
247.500			.2332	.1783	.0440	-.0726	-.0456	-.0347	-.0144	.0183	.0459	.0346	.0023
270.000	.1715	.1668	.3478	.4259	.0846	-.0743	-.0456	-.0303	-.0169	.0091	-.0354	.0346	.0023
292.500			.2571	.2196	.0626	-.0747	-.0026	.0155	.0075	.0409	.0459	.0346	.0023
315.000	.2037	.1367	.2026	.0376	.0491	-.0545	.0146	.0125	.0213	.0552	.0459	.0346	.0023
337.500	.2282	.1650	.1655	-.0094	-.0033	-.0067	.0331	9.9990	.0213	.0263	.0459	.0346	.0023
360.000	.2226	.1955	.1773	-.0155	-.0023	-.0002	.0254	-.0043	.0102	.0081	.0358	.0125	.0013

MACH (5) = 3.500 ALPHA (4) = 5.000 0 = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

(882505)

MSFC 567(1A32F) T8 53/2 53/2 03 US SRM BOOSTER

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	PHI	0.433	.0722	.1013	.1158	.1518	.2240	.3323	.4403	.5488	.6570	.7653	.8634	.9122	.9555
.000	.1384	.1274	-.0268	-.0185	-.0209	-.0117	.0054	.0071	-.0111	.0484	.2527	.2142	.2632	.2142	.2233
22.500	.1420	.1308	-.0282	-.0289	-.0197	-.0098	.0123	.0120	-.0111	.0670	.2632	.2142	.2632	.2142	.2233
45.000	.1482	.1404	-.0273	-.0341	-.0188	-.0087	-.0107	.0085	-.0088	.0585	.2142	.2142	.2142	.2142	.2142
67.500	.1654	.1624	-.0202	-.0334	-.0178	-.0131	-.0165	-.0043	.0020	.0592	.1654	.1654	.1654	.1654	.1654
90.000	.1851	.1822	-.0138	-.0293	-.0188	-.0171	-.0219	-.0094	-.0090	.0819	.1465	.1465	.1465	.1465	.1465
112.500	.2175	.2150	-.0060	-.0238	-.0141	-.0229	-.0226	-.0212	-.0094	.0876	.1468	.1468	.1468	.1468	.1468
135.000	.2473	.2450	.0027	-.0161	-.0070	-.0087	-.0205	-.0161	-.0107	.0842	.1746	.1746	.1746	.1746	.1746
157.500	.2865	.2867	.0108	-.0033	-.0034	-.0050	-.0117	-.0067	-.0029	.0474	.1837	.1837	.1837	.1837	.1837
180.000	.3471	.3123	.0102	.0338	.0628	-.0114	.0007	.0288	.0217	.0514	.1614	.1614	.1614	.1614	.1614
202.500	.3434	.2750	.0098	.0277	.0568	-.0161	.0031	.0288	.0217	.0514	.1614	.1614	.1614	.1614	.1614
225.000	.2943	.2250	.0474	.0832	-.0121	-.0158	.0112	.0234	.0244	.0436	.0751	.1150	.0844	.0844	.1378
247.500	.1742	.1455	.1957	.1114	-.0645	-.0763	.0082	.0275	.0255	.0345	.0734	.1147	.0345	.0345	.1147
270.000	.4181	.4567	.0957	.0740	-.0026	-.0077	-.0036	.0264	.0407	.0416	.1015	.1428	.0416	.0416	.1428
292.500	.1901	.1854	.0149	-.0784	-.0104	-.0036	.0244	.0599	-.0009	.0284	.0815	.1083	.0284	.0284	.1083
315.000	.1316	.0947	.1242	.0129	-.0199	-.0804	.0050	.0047	.0237	.0572	.0365	.0240	.0365	.0365	.0365
337.500	.1353	.0890	.0961	-.0256	-.0412	-.0290	.0290	.0193	.0373	.0305	.0196	.1553	.0196	.0196	.1553
360.000	.1384	.1204	-.0266	-.0185	-.0351	-.0209	-.0117	.0054	.0071	-.0111	.0484	.2527	.0484	.0484	.2527

MACH (5) = 3.500 ALPHA (5) = 8.000 0 = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	PHI	0.433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
.000	.0991	.0765	-.0456	-.0229	-.0456	-.0341	-.0104	-.0067	.0064	-.0195	.0521	.2165	.0521	.0521	.1999
22.500	.1083	.0924	-.0368	-.0314	-.0229	-.0134	-.0134	-.0046	.0031	-.0215	.0609	.2202	.0609	.0609	.2510
45.000	.1255	.1188	-.0354	-.0405	-.0226	-.0249	-.0202	-.0131	-.0087	-.0236	.0863	.1536	.0863	.0863	.1785
67.500	.1756	.1780	-.0273	-.0401	-.0246	-.0263	-.0337	-.0246	-.0090	-.0083	.0863	.1252	.0863	.0863	.1252
90.000	.1776	.1780	-.0175	-.0341	-.0276	-.0347	-.0385	-.0290	-.0100	.0054	.0930	.1269	.0930	.0930	.1269
112.500	.2273	.2273	-.0050	-.0229	-.0188	-.0205	-.0395	-.0368	-.0195	-.0161	.0964	.1610	.0964	.0964	.1610
135.000	.2832	.2813	.0146	-.0040	.0014	-.0043	-.0226	-.0195	-.0195	-.0195	.0822	.2301	.0822	.0822	.2301
157.500	.3698	.3616	.0325	.0203	.0176	.0091	-.0002	.0044	.0031	-.0158	.0430	.2033	.0430	.0430	.2033
180.000	.4300	.3924	.0393	.0653	.1042	.0152	.0247	.0990	.0423	-.0249	.0484	.2304	.0484	.0484	.2304
202.500	.4259	.3522	.0460	.0846	.1022	.0125	.0342	.0552	.0416	.2273	.0687	.1198	.0687	.0687	.1198
225.000	.3512	.2882	.3945	.0819	.1282	.0281	.0173	.0423	.0494	.0433	.0531	.0991	.0531	.0531	.0991
247.500	.1739	.1631	.3238	.2307	.1495	-.0533	.0217	.0328	.0413	.0332	.0311	.0778	.0311	.0311	.0778
270.000	.4469	.4469	.4393	.1066	-.0692	-.0236	-.0178	-.0033	.0234	.0244	.0396	.1025	.0396	.0396	.1025
292.500	.1528	.1675	.1675	.0009	-.0723	-.0341	-.0199	-.0060	.0338	.0176	.0413	.1226	.0413	.0413	.1226
315.000	.0978	.0721	.1106	-.0009	-.0452	-.0777	-.0161	-.0219	-.0050	.0379	.0416	.0382	.0416	.0416	.0382
337.500	.0934	.0579	.0633	-.0354	-.0540	-.0777	-.0374	.0990	.0000	.0335	.0609	.2355	.0335	.0335	.2355
360.000	.0991	.0765	-.0456	-.0229	-.0456	-.0341	-.0104	-.0067	.0064	-.0195	.0521	.2165	.0521	.0521	.1999

MSFC 567(1A32F) 19 53/2 53/2 03 US SRM BOOSTER (R82506) (24 APR 74)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .9720 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040 SCALE

ALPHA = .000 CORFIG = 50.500
DELTAZ = .140 RUDDER = .500
X-SRB = .000 C-STRAC = .500

PARAMETRIC DATA

MACH (1) = .600 BETA (1) = -8.000 Q = 4.3654 FTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.033	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1259	-.1607	-.6599	-.0068	.0077	.0332	.0601	.1140	.1794	-.5692	.1207	.1705	.0491
22.500	.244	.1397	-.1406	-.6549	-.0103	.0192	.0331	.0573	.1049	.1497	-.5139	.1899	.3033	.0672
45.000	.2595	.1599	-.1289	-.6705	-.0165	.0202	.0342	.0487	.0877	.1255	-.4857	.2530	.3735	.0533
67.500		-.1225	-.6829	-.0272	.0148	.0341	.0495	.0734	.0734	.0317	-.4484	.2595	.3745	.0257
90.000	.2597	.1612	-.1295	-.7017	-.0449	.0019	.0217	.0353	.0505	.0572	-.4095	.2477	.3592	.0291
112.500		-.1557	-.7337	-.0654	.0023	.0015	.0107	.0259	.0217	-.3745	.2077	.3372	.3825	
135.000	.2011	.0685	-.2001	-.7654	-.0654	-.0189	-.0141	.0081	.0150	-.3569	.1366	.2527	.2233	
157.500	.1595	.0470	-.2509	-.8221	-.1095	-.0235	-.0088	.0063	.0296	-.3507	.0425	.1523	.0560	
180.000	.1532	.0195	-.2817	-.7654	-.1054	-.0739	-.0251	-.0071	.9.9390	.0433	-.4055	.0512	.0559	.0158
202.500	.1465	.0072	-.3178	-.7725	-.0997	-.0824	-.0179	-.0061	.0334	-.4827	-.0878	-.0443	-.0217	
225.000	.1675	.0313	-.3545	-.8500	-.1018	-.0127	.0088	.0223	.0440	-.4353	-.1243	-.0261	.0127	
247.500	.2479	.2157	-.0649	-.1.1264	.0579	-.2823	.0005	.0212	.0347	.0573	-.2615	.1178	.0130	.0435
269.500		-.1144	-.8522	.0878	.0940	.0225	.0511	.0997	.1977	.6306	-.0923	-.0029	.0052	
315.000	.2523	.1607	-.1866	-.7745	-.0215	-.0339	.0227	.0514	.1124	.2019	-.5830	.0075	.2351	.1121
337.500	.2350	.1255	-.1770	-.6848	-.0614	-.0125	.0245	.9.9390	.1109	.1951	-.5353	.0813	.1945	-.0735
359.000	.2360	.1259	-.1607	-.6599	-.0068	.0077	.0332	.0501	.1140	.1794	-.5692	.1207	.1705	.0491

MACH (1) = .600 BETA (2) = -4.000 Q = 4.3654 PTA = 22.011 R. = 5.0040 PSA = 17.234

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.1106	-.1904	-.5817	-.0538	-.0311	-.0001	.0285	.0800	.1349	-.5657	.1313	.1662	.0348
22.500	.2101	.1041	-.1928	-.6387	-.0555	-.0196	-.0002	.0249	.0884	.1027	-.5075	.1591	.2170	.1120
45.000	.2086	.1069	-.1853	-.7274	-.0575	-.0135	.0033	.0195	.0560	.0859	-.4699	.1974	.3014	.1569
67.500		-.1913	-.7355	-.0681	-.0196	.0050	.0187	.0436	.0610	.0610	-.4403	.2166	.3165	.1593
90.000	.1918	.0922	-.1995	-.7496	-.0794	-.0302	-.0020	.0106	.0328	.0412	-.4048	.2122	.3053	.1556
112.500		-.2074	-.7691	-.0956	-.0329	-.0047	.0053	.0258	.0342	-.3768	.1974	.2913	.1559	
135.000	.1610	.0499	-.2385	-.8314	-.0997	-.0470	-.0170	-.0070	.0126	.0263	-.3577	.1652	.2739	.1423
157.500	.1477	.0203	-.2686	-.8143	-.1148	-.0524	-.0206	-.0070	.0117	.0315	-.3675	.1027	.2135	.1157
180.000	.1453	.0169	-.2871	-.8161	-.1030	-.0677	-.0173	.0011	.9.9390	.0416	-.4025	.0202	.1064	.0635
202.500	.1505	.0136	-.3200	-.8447	-.1095	-.0881	-.0191	-.0030	.0128	.0428	-.4881	-.0166	.0327	.0571
225.000	.1786	.0440	-.3523	-.9341	-.1102	-.1315	-.0183	.0089	.0283	.0500	-.4479	-.0471	.0317	.0587
247.500		-.3131	-.1.1173	-.0823	-.2796	-.0139	.0107	.0261	.0809	-.2731	-.0539	-.0404	.0769	
270.000	.2613	.2253	-.0574	-.1.1736	.0537	-.3328	-.0156	.0169	.0475	.1028	-.2509	-.0443	.0356	.0510

MSFC 567(1A32F) T9 S3/2 S3/2 03 US SRM BOOSTER

(R82506)

MACH (1) = .600 BETA (2) = -4.000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L/S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
292.500														
315.000	.2728	.1773	-.1837	-.8368	-.0019	-.0663	-.0033	.0318	.0895	.1706	-.5773	.0259	.2549	-.0726
337.500	.2510	.1397	-.1749	-.7415	-.0273	-.0400	.0000	9.9990	.0886	.1636	-.5262	.0929	.2351	-.0569
360.000	.2175	.1106	-.1904	-.5817	-.0538	-.0311	-.0001	.0285	.0800	.1349	-.5657	.1313	.1882	.0348

MACH (1) = .600 BETA (3) = .000 Q = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L/S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.0940	-.2095	-.8002	-.0922	-.0694	-.0356	-.0050	.0395	.0756	-.5317	.1143	.1661	.0264	
22.500	.1791	-.0713	-.7978	-.0946	-.0569	-.0338	-.0060	.0321	.0521	-.5002	.1321	.1874	.0893	
45.000	.1498	.0459	-.2515	-.7618	-.1020	-.0356	-.0139	.0191	.0409	-.4775	.1629	.2421	.1263	
67.500			-.2586	-.7946	-.0994	-.0472	-.0051	.0216	.0363	-.4211	.1739	.2469	.1247	
90.000	.1229	.0191	-.2749	-.7982	-.1088	-.0541	-.0076	.0137	.0266	-.3684	.1799	.2387	.1219	
112.500			-.2609	-.6082	-.1127	-.0498	-.0205	.0138	.0266	-.3387	.1870	.2497	.1311	
135.000	.1213	.0146	-.2818	-.7491	-.1109	-.0472	-.0170	.0145	.0301	-.3516	.1766	.2554	.1412	
157.500	.1230	.0093	-.2904	-.8455	-.1233	-.0534	-.0187	.0128	.0292	-.4094	.1520	.2526	.1579	
180.000	.1338	.0076	-.2979	-.8564	-.1198	-.0694	-.0187	.0094	.0366	-.5032	.0379	.0954	.1161	
202.500	.1482	.0148	-.3185	-.8915	-.1305	-.0908	-.0248	.0182	.0569	-.4871	-.0006	.0769	.0974	
225.000	.1845	.0513	-.3479	-.9823	-.1323	-.1416	-.0203	.0182	.0872	-.2852	-.0346	.0617	.1024	
247.500	.2753	.2341	-.3077	-.1350	-.0913	-.2825	-.0240	.0280	.0872	.1141	-.2407	-.0150	.0626	.0324
270.000			-.0513	-.1443	.0452	-.3779	.0311	.0012	.0387	.1362	-.5605	-.0142	.0562	.0234
292.500			-.1156	-.8010	.0478	-.1566	-.0266	.0145	.0628	.1362	-.5605	-.0142	.0562	.0234
315.000	.2875	.1905	-.1735	-.8399	-.0271	-.0853	-.0232	.0108	.0685	.1233	-.5658	.0246	.2168	.1680
337.500	.2583	.1452	-.1726	-.7704	-.0600	-.0631	-.0241	9.9990	.0561	.1109	-.5179	.0894	.2124	-.0626
360.000	.2049	.0940	-.2095	-.8002	-.0822	-.0694	-.0050	.0395	.0756	-.5317	.1143	.1661	.0264	

MACH (1) = .600 BETA (4) = 4.000 Q = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L/S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1871	.0765	-.2202	-.8053	-.1183	-.0977	-.0609	-.0222	.0197	.0463	-.4972	.0771	.1115	-.0035
22.500	.1417	.0329	-.2610	-.8106	-.1225	-.0888	-.0608	-.0257	.0093	.0192	-.4774	.0968	.1339	.0529
45.000	.1043	-.0002	-.2920	-.7857	-.1156	-.0758	-.0496	-.0231	.0058	.0262	-.4517	.1147	.1813	.0913
67.500			-.3047	-.7832	-.1050	-.0801	-.0365	.0127	.0082	.0261	-.4075	.1399	.1871	.0807
90.000	.0515	-.0195	-.3108	-.8115	-.0967	-.0522	-.0218	-.0050	.0117	.0276	-.3450	.1553	.2095	.0883
112.500			-.3167	-.8254	-.1064	-.0495	-.0191	-.0049	.0100	.0251	-.3319	.1822	.2462	.1247
135.000	.0846	-.0228	-.3094	-.8674	-.1072	-.0520	-.0208	-.0109	.0066	.0225	-.3502	.1765	.2391	.1332
157.500	.0552	-.0118	-.3012	-.8446	-.1262	-.0572	-.0242	-.0074	.0048	.0241	-.3977	.1761	.2815	.1835

MSFC 567(1A32F) T9 53/2 53/2 03 US SRM BOOSTER

(RB2506)

MACH (1) = .600 BETA (4) = 4.000

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
180.000	.1170	-.0023	-.2991	-.8669	-.1371	-.0790	-.0276	-.0122	9.9990	.0245	-.4209	.1364	.2308	.1912
222.500	.1491	.0251	-.3034	-.9197	-.1445	-.0970	-.0295	-.0114	.0073	.0334	-.4698	.1039	.1662	.1644
225.000	.1982	.0688	-.3225	-.9933	-.1357	-.1486	-.0304	-.0569	.0154	.0549	-.5045	.0419	.1304	.1550
247.500			-.2746	-.1.0903	-.0750	-.2761	-.0312	-.0069	.0259	.0911	-.3215	-.0355	.0728	.1324
270.000	.3036	.2539	-.0499	-.1.0784	.0508	-.4092	-.0498	-.0167	.0311	.1105	-.1973	-.0365	.0359	-.0154
282.500			-.0988	-.8601	.0412	-.1900	-.0507	-.0095	.0463	.1027	-.4712	-.0223	.0507	-.0469
315.000	.3160	.2184	-.1449	-.8055	-.0441	-.1094	-.0498	-.0114	.0479	.0795	-.5268	.0008	.1189	-.1129
337.500	.2690	.1553	-.1615	-.7639	-.0963	-.0967	-.0595	9.9990	.0276	.0591	-.4999	.0468	.1173	-.0770
350.000	.1871	.0765	-.2202	-.8353	-.1183	-.0977	-.0609	-.0222	.0197	.0463	-.4972	.0771	.1115	-.0035

MACH (1) = .600 BETA (5) = 8.000 C = 4.3654 PTA = 22.011 R = 5.0040 FSA = 17.234

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1536	.0496	-.2467	-.8451	-.1764	-.1441	-.0963	-.0449	.0028	.0208	-.4857	.0558	.0880	-.0252
22.500	.0946	-.0156	-.3116	-.8539	-.1837	-.1337	-.0921	-.0467	-.0059	-.0021	-.4735	.0665	.0869	.0039
45.000	.0506	-.0563	-.3430	-.8338	-.1582	-.1037	-.0692	-.0344	-.0015	.0076	-.4371	.0787	.1038	.0091
67.500			-.3563	-.8046	-.1290	-.0754	-.0524	-.0299	-.0041	.0085	-.3998	.1080	.1560	.0330
90.000	.0268	-.0729	-.3581	-.8106	-.1163	-.0620	-.0355	-.0202	.0002	.0067	-.3844	.1493	.2008	.0579
112.500			-.3950	-.8338	-.1150	-.0560	-.0304	-.0176	-.0024	.0067	-.4015	.1623	.1955	.0711
135.000	.0367	-.0689	-.3425	-.8218	-.1285	-.0650	-.0383	-.0265	-.0050	.0068	-.4006	.1791	.2540	.1172
157.500	.0506	-.0584	-.3429	-.8668	-.1722	-.0902	-.0571	-.0416	-.0235	-.0116	-.4175	.1899	.2786	.1567
180.000	.0956	-.0174	-.3058	-.8737	-.1529	-.0904	-.0391	-.0176	9.9990	.0138	-.4337	.1762	.2590	.2499
222.500	.1520	.0368	-.2803	-.9200	-.1463	-.0933	-.0241	-.0015	.0154	.0362	-.4733	.1368	.2701	.3214
225.000	.2209	.1002	-.2775	-.9570	-.1201	-.1338	-.0168	.0053	.0214	.0572	-.5081	.0779	.1567	.2219
247.500			-.2562	-.1.0590	-.0543	-.2781	-.0312	-.0079	.0240	.0917	-.3604	-.0159	.0837	.1359
270.000	.3365	.2791	-.0257	-.8972	.0700	-.4195	-.0584	-.0228	.0310	.1171	-.2168	-.0258	.0507	-.0163
292.500			-.0550	-.8079	.0488	-.2097	-.0691	-.0202	.0424	.1003	-.4714	-.0127	.0812	-.0369
315.000	.3520	.2546	-.1041	-.7663	-.0441	-.1209	-.0729	-.0301	.0346	.0829	-.4623	.0104	.1330	-.1070
337.500	.2906	.1691	-.1487	-.7488	-.1173	-.1212	-.0905	9.9990	.0126	.0545	-.4576	.0562	.1287	-.0625
360.000	.1596	.0496	-.2467	-.8451	-.1764	-.1441	-.0963	-.0449	.0028	.0208	-.4857	.0558	.0880	-.0252

(R82506)

MSFC 567(1A32F) 19 53/2 53/2 03 U5 SRM BOOSTER

MACH (2) = .900 BETA (1) = -8.000 Q = 7.3620 PTA = 22.011 RL = 6.2700 PSA = 13.039

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.3722	.1013	.1156	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.5122	.9555
PHI	.000	.2399	.0351	-.8563	-.0041	-.0151	-.0176	.0776	.1795	.3217	-.6223	.1297	.2021	.0684
22.500	.3328	.2493	.0481	-.8232	-.0146	.0015	-.0161	.0712	.1638	.2761	-.5447	.1469	.2215	.1950
45.000	.3481	.2683	.0653	-.8343	-.0094	.0062	-.0051	.0607	.1417	.2371	-.5973	.1788	.3202	.2685
67.500			.0780	-.8699	-.0062	-.0010	.0235	.0618	.1241	.1897	-.5625	.2116	.4027	.2951
90.000	.3498	.2709	.0741	-.9198	-.0072	-.0234	-.0076	.0417	.0926	.1340	-.5275	.2002	.3816	.2873
112.500			.0583	-.9529	-.0314	-.0450	-.0223	.0191	.0655	.1000	-.4871	.1566	.3104	.2405
135.000	.3002	.2100	.0230	-.9913	-.1292	-.0739	-.0475	-.0102	.0429	.0857	-.4688	.0770	.2340	.1643
157.500	.2749	.1798	-.0121	-.9837	-.2208	-.0852	-.0537	-.0909	.0484	.1072	-.4659	-.0317	.0870	.0729
180.000	.2593	.1548	-.0431	-.8572	-.4258	-.1106	-.0454	.0044	9.9990	.1146	-.4759	-.1321	-.0933	-.0438
202.500	.2617	.1590	-.0551	-.8530	-.4507	-.1451	-.0265	.0128	.0508	.1124	-.6335	-.1752	-.1605	-.0959
225.000	.2688	.2037	-.0409	-.8905	-.4786	-.2007	-.0177	.0204	.0587	.1171	-.3538	-.2316	-.1512	-.0618
247.500			.0778	-.9230	-.5424	-.2416	-.0207	.0421	.0893	.1150	-.2641	-.2132	-.1335	-.0141
270.000	.3666	.3905	.3432	-.8195	-.3686	-.2420	-.0207	.0421	.0893	.1150	-.2641	-.2132	-.1335	-.0141
292.500			.2178	-.8714	-.1821	-.1368	-.0149	.0715	.1601	.3208	-.6581	-.1903	-.1149	-.0497
315.000	.3695	.3056	.0676	-.8301	-.1220	-.0761	-.0260	.0771	.1780	.3452	-.6143	-.0847	.2125	-.2074
337.500	.3374	.2580	.0360	-.7471	-.1052	-.0413	-.0333	9.9990	.1767	.3394	-.6044	.0420	.2608	-.0539
360.000	.3245	.2399	.0351	-.8563	-.0041	-.0151	-.0176	.0776	.1795	.3217	-.6223	.1297	.2021	.0684

MACH (2) = .900 BETA (2) = -4.000 Q = 7.3620 PTA = 22.011 RL = 6.2700 PSA = 13.039

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1613	.1185	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.2510	.0427	-.8363	-.0466	-.0743	-.0381	.0471	.1354	.2579	-.6166	.1146	.2163	.0787
22.500	.3192	.2360	.0420	-.8850	-.0314	-.0486	-.0390	.0416	.1235	.2147	-.5580	.1311	.2138	.1593
45.000	.3091	.2282	.0333	-.8726	-.0481	-.0387	-.0349	.0282	.1019	.1813	-.5863	.1306	.2376	.1909
67.500			.0328	-.9764	-.1063	-.0382	-.0229	.0293	.0885	.1470	-.5563	.1558	.3088	.2305
90.000	.2837	.2122	.0270	-.8841	-.1857	-.0478	-.0286	.0184	.0718	.1172	-.5180	.1485	.2984	.2348
112.500			.0202	-.10038	-.2613	-.0478	-.0255	.0142	.0630	.1057	-.4787	.1304	.2529	.2101
135.000	.2778	.1838	.0128	-.10117	-.3394	-.0548	-.0297	.0032	.0560	.1038	-.4571	.0860	.2138	.1909
157.500	.2690	.1769	-.0127	-.0315	-.3409	-.0680	-.0334	.0079	.0537	.1084	-.4646	.1119	.1181	.1292
180.000	.2638	.1609	-.0325	-.10061	-.4541	-.0870	-.0239	.0155	9.9990	.1106	-.4728	-.0693	.0023	.0644
202.500	.2734	.1724	-.0403	-.10252	-.4706	-.1395	-.0176	.0196	.0585	.1092	-.6008	.1130	-.0686	.0062
225.000	.3056	.2171	-.0299	-.10453	-.5126	-.2013	-.0166	.0243	.0685	.1250	-.4149	.1683	-.0812	-.0398
247.500			.0862	-.10082	-.6062	-.2614	-.0260	.0238	.0817	.1462	-.2885	.1800	-.0765	.0073
270.000	.3919	.4085	.3508	-.8132	-.3737	-.2608	-.0312	.0295	.1028	.1693	-.2812	.1603	-.0695	-.0152
292.500			.2366	-.8882	-.2053	-.1679	-.0255	.0485	.1402	.2832	-.6129	.1398	-.0602	-.0476
315.000	.2874	.3300	.0905	-.9356	-.0687	-.1212	-.0344	.0454	.1425	.2965	-.6261	.0711	.1728	.1435
337.500	.3618	.2800	.0579	-.8935	.0001	-.1035	-.0444	9.9990	.1364	.2839	-.5904	.0342	.2480	-.0351
360.000	.3350	.2510	.0427	-.9303	-.0466	-.0743	-.0381	.0471	.1354	.2579	-.6166	.1146	.2169	.0787

MSFC 567(1A32F) T9 S3/2 Q3 U5 SRM BOOSTER (R82508)

MACH (2) = .900 BETA (3) = .000 Q = 7.3520 PTA = 22.011 RL = 6.2700 PSA = 13.039

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.3288	.2435	.0330	-.9388	-.0751	-.1225	-.0770	.0084	.0749	.1471	-.5684	.0628	.1387
22.500	.3018	.2172	.0181	-1.0227	-.1288	-.0950	-.0732	.0077	.0674	.1210	-.5564	.0908	.1636	.1162
45.000	.2730	.1968	-.0003	-1.0335	-.1938	-.0754	-.0632	.0035	.0599	.1128	-.5478	.1013	.1930	.1477
67.500	.2493	.1649	-.0104	-1.0377	-.2663	-.0560	-.0469	.0087	.0588	.1049	-.5170	.1194	.2261	.1756
90.000	.2482	.1602	-.0150	-1.0369	-.3146	-.0459	-.0347	.0108	.0550	.0968	-.4649	.1251	.2089	.1654
112.500	.2473	.1550	-.0192	-1.0437	-.3726	-.0370	-.0248	.0120	.0527	.0941	-.4322	.1247	.2088	.1695
135.000	.2622	.1577	-.0136	-1.0336	-.5379	-.0323	-.0202	.0075	.0512	.0949	-.4414	.1150	.2194	.1943
157.500	.2837	.1827	-.0276	-1.0578	-.4732	-.0481	-.0185	.0148	.0482	.0918	-.4771	.0741	.1942	.1927
180.000	.3223	.2324	-.0335	-1.0391	-.4801	-.1451	-.0174	.0147	.0507	.1043	-.5650	-.0450	.0015	.0716
202.500	.4109	.3517	-.0595	-1.0984	-.5882	-.2863	-.0342	.0147	.0696	.1502	-.2855	-.1338	-.0422	.0259
225.000	.4052	.3437	-.0420	-1.0544	-.2810	-.1075	-.0758	.0054	.0487	.0816	-.5129	.0551	.1108	.0594
247.500	.3710	.2864	-.0514	-1.0571	-.3457	-.0722	-.0574	.0019	.0462	.0781	-.4735	.0738	.1401	.0896
292.500	.3288	.2435	-.0551	-1.0628	-.3900	-.0470	-.0364	.0076	.0466	.0779	-.4540	.0990	.1662	.1068
315.000	.2202	.1248	-.0594	-1.0580	-.4080	-.0340	-.0244	.0103	.0452	.0755	-.4329	.1284	.2320	.1702
337.500	.2874	.1949	-.0400	-1.0407	-.5633	-.0242	-.0136	.0120	.0498	.0825	-.4565	.1220	.2222	.1791
360.000	.3352	.2445	-.0508	-1.0599	-.6761	-.0443	-.0144	.0117	.0418	.0791	-.4777	.0987	.2277	.2184
	.4389	.3332	-.0373	-1.0468	-.6615	-.0978	-.0093	.0137	.0499	.0823	-.4695	.0502	.1432	.2050
	.4511	.3911	-.0226	-1.0408	-.5630	-.1642	.0005	.0210	.0515	.0957	-.5159	.0275	.0762	.1377
	.4089	.3257	-.0332	-1.0470	-.5109	-.2785	-.0020	.0220	.0583	.1171	-.5139	-.0551	.0395	.0805
	.3260	.2377	.0976	-.9936	-.6568	-.4004	-.0114	.0178	.0697	.1484	-.3581	-.1260	-.0239	.0637
			.3477	-.8126	-.3866	-.4121	-.0595	-.0039	.0764	.1649	-.2303	-.1186	-.0355	-.0408
			.2687	-.6541	-.1504	-.2819	-.0772	.0081	.0679	.1679	-.4853	.1054	-.0319	-.0639
			.1479	-.9197	-.0532	-.2324	-.0958	-.0024	.0926	.1495	-.4913	-.0715	.0431	-.1247
			.1050	-.9392	-.0551	-.2266	-.1024	.0090	.0754	.1360	-.5358	.0067	.0754	-.0564
			.0355	-.9271	-.1121	-.1733	-.1024	-.0061	.0652	.1153	-.5403	.0315	.0762	-.0163

MACH (2) = .900 BETA (4) = 4.000 Q = 7.3520 PTA = 22.011 RL = 6.2700 PSA = 13.039

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0432	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.3260	.2377	.0355	-.9271	-.1121	-.1733	-.1024	-.0061	.0652	.1153	-.5403	.0315	.0762
22.500	.2748	.1899	-.0104	-1.0138	-.1578	-.1336	-.0919	-.0059	.0544	.0836	-.5233	.0471	.0948	.0466
45.000	.2359	.1508	-.0420	-1.0544	-.2810	-.1075	-.0758	-.0054	.0487	.0816	-.5129	.0551	.1108	.0594
67.500	.2023	.1171	-.0514	-1.0571	-.3457	-.0722	-.0574	.0019	.0462	.0781	-.4735	.0738	.1401	.0896
90.000	.2023	.1171	-.0551	-1.0628	-.3900	-.0470	-.0364	.0076	.0466	.0779	-.4540	.0990	.1662	.1068
112.500	.2173	.1288	-.0594	-1.0580	-.4080	-.0340	-.0244	.0103	.0452	.0755	-.4329	.1284	.2320	.1702
135.000	.2202	.1248	-.0400	-1.0407	-.5633	-.0242	-.0136	.0120	.0498	.0825	-.4565	.1220	.2222	.1791
157.500	.2498	.1477	-.0508	-1.0599	-.6761	-.0443	-.0144	.0117	.0418	.0791	-.4777	.0987	.2277	.2184
180.000	.2874	.1949	-.0373	-1.0468	-.6615	-.0978	-.0093	.0137	.0499	.0823	-.4695	.0502	.1432	.2050
202.500	.3352	.2445	-.0226	-1.0408	-.5630	-.1642	.0005	.0210	.0515	.0957	-.5159	.0275	.0762	.1377
225.000	.4389	.3332	-.0332	-1.0470	-.5109	-.2785	-.0020	.0220	.0583	.1171	-.5139	-.0551	.0395	.0805
247.500	.4511	.3911	.0976	-.9936	-.6568	-.4004	-.0114	.0178	.0697	.1484	-.3581	-.1260	-.0239	.0637
292.500	.4089	.3257	.3477	-.8126	-.3866	-.4121	-.0595	-.0039	.0764	.1649	-.2303	-.1186	-.0355	-.0408
315.000	.3260	.2377	.2687	-.6541	-.1504	-.2819	-.0772	.0081	.0679	.1679	-.4853	.1054	-.0319	-.0639
337.500	.4089	.3257	.1479	-.9197	-.0532	-.2324	-.0958	-.0024	.0926	.1495	-.4913	-.0715	.0431	-.1247
360.000	.3260	.2377	.1050	-.9392	-.0551	-.2266	-.1024	.0090	.0754	.1360	-.5358	.0067	.0754	-.0564
			.0355	-.9271	-.1121	-.1733	-.1024	-.0061	.0652	.1153	-.5403	.0315	.0762	-.0163

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82S06)

DATE 05 SEP 75

MSFC 567(1A32F) 19 S3/2 S3/2 03 US SRM BOOSTER

MACH (2) = .900 BETA (5) = 8.000 Q = 7.3620 PTA = 22.011 RL = 6.2700 PSA = 13.039

SECTION (1) SRM BOOSTER

X/L5	DEPENDENT VARIABLE CP										RL	PSA		
PHI	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.3187	.2268	.0244	-.9496	-.1795	-.2233	-.1085	-.0061	.0609	.0947	-.5452	.0242	.0847	-.0246
22.500	.2440	.1523	-.0399	-1.0346	-.3405	-.2015	-.0929	-.0029	.0521	.0676	-.5361	.0321	.0728	.0071
45.000	.1889	.0943	-.0851	-1.0710	-.4248	-.1525	-.0742	-.0003	.0480	.0693	-.5262	.0261	.0650	.0024
67.500	.1603	.0737	-.1017	-1.0771	-.4625	-.0905	-.0479	-.0029	.0438	.0729	-.4869	.0429	.0823	.0118
90.000	.1663	.0730	-.0922	-1.0738	-.4285	-.0361	-.0312	-.0142	.0505	.0712	-.4567	.0870	.1792	.0938
112.500	.1917	.0952	-.0929	-1.0667	-.4335	-.0256	-.0229	.0122	.0448	.0671	-.4746	.1104	.1857	.1117
135.000	.2331	.1361	-.0922	-1.0652	-.6324	-.0298	-.0255	.0042	.0420	.0679	-.4824	.1172	.2431	.1908
157.500	.2848	.2016	-.0777	-1.0624	-.7434	-.0455	-.0250	.0053	.0354	.0629	-.5156	.1013	.2485	.177
180.000	.3425	.2558	-.0383	-1.0410	-.6374	-.1110	-.0067	.0184	9.9990	.0776	-.4963	.0520	.1769	.2283
202.500	.4388	.3392	-.0104	-1.0379	-.5556	-.1739	-.0084	.0305	.0542	.0923	-.5222	.0139	.0970	.2283
225.000	.4812	.4238	.1002	-.9878	-.4667	-.2976	.0001	.0196	.0465	.1076	-.5296	.0441	.0314	.1188
247.500	.4881	.4238	.3392	-.8054	-.2018	-.5202	-.0935	-.0301	.0673	.1818	-.2939	-.1212	-.0292	.0710
292.500	.4812	.4238	.2772	-.8301	-.0230	-.3664	-.0997	-.0060	.0913	.1791	-.5135	-.1002	-.0114	-.0580
315.000	.4336	.3541	.1804	-.6904	.0053	-.2848	-.1237	-.0190	.0815	.1652	-.5068	-.0684	.0678	-.1406
337.500	.3187	.2268	.0244	-.9496	-.1795	-.2233	-.1085	-.0061	.0609	.0947	-.5452	.0242	.0847	-.0246

MACH (3) = 1.050 BETA (1) = -8.000 Q = 8.4534 PTA = 22.009 RL = 6.5780 PSA = 10.958

SECTION (1) SRM BOOSTER

X/L5	DEPENDENT VARIABLE CP										RL	PSA		
PHI	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
.000	.4616	.3964	.2365	-.6537	-.0599	.1059	.0385	-.1031	.2789	.4758	-.5279	.2154	.2963	.2005
22.500	.4692	.4040	.2470	-.6474	-.2216	.1249	.0496	-.1183	.2671	.4369	-.5520	.2240	.3384	.3488
45.000	.4881	.4241	.2659	-.6314	-.3040	.1297	.0631	-.0991	.2514	.4010	-.5548	.2823	.4813	.4153
67.500	.4938	.4364	.2782	-.6145	-.3005	.1206	.0618	-.0672	.2337	.3521	-.5417	.3133	.5330	.4247
90.000	.4532	.3823	.2872	-.6167	-.3018	.1012	.0514	-.0545	.2122	.3034	-.5114	.3041	.4908	.4112
112.500	.4288	.3543	.2687	-.6240	-.3363	.0792	.0313	-.0549	.1879	.2648	-.4818	.2550	.4216	.3628
135.000	.4058	.3283	.2398	-.6458	-.3802	.0570	.0068	-.0373	.1670	.2472	-.4601	.1743	.3384	.2850
157.500	.4119	.3382	.2082	-.6663	-.4225	.0395	-.0046	-.0333	.1631	.2582	-.4471	.0632	.1699	.1848
180.000	.4324	.3779	.1736	-.6918	-.4827	.0160	-.0053	-.0422	9.9990	.2695	-.4150	-.0422	-.0150	.0541
202.500	.5026	.4495	.1742	-.7003	-.5253	.0287	.0160	-.0207	.1551	.2699	-.5142	-.1108	-.1189	-.0270
225.000	.4833	.4495	.1797	-.7168	-.5698	.1138	.0134	-.0084	.1664	.2792	-.2954	-.2059	-.1159	-.0177
247.500	.4623	.4061	.2962	-.6474	-.6127	.1767	.0082	-.0021	.1805	.2840	-.2101	-.2187	-.0905	.0635
292.500	.4616	.3964	.3891	-.5739	-.2123	.0488	.0005	-.0609	.2596	.4768	-.5072	-.1468	-.1129	-.0055
315.000	.4616	.3964	.2558	-.6659	-.1165	.0449	.0152	-.1014	.2718	.4985	-.4937	-.0116	.2283	.2220
337.500	.4616	.3964	.2325	-.6546	-.0471	.0791	.0197	9.9990	.2713	.4944	-.5123	.1263	.3068	.0620
360.000	.4616	.3964	.2365	-.6537	-.0599	.1059	.0385	-.1031	.2789	.4758	-.5279	.2154	.2963	.2005

(R82506)

MACH (3) = 1.050 BETA (2) = -4.000 Q = 8.4534 PTA = 22.009 RL = 6.5780 PSA = 10.958

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L/S	.0433	.0722	.1013	.1188	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.4789	.4117	.2424	-.6327	-.1671	.0147	-.0340	-.0933	.2607	.4205	-.5507	.1698	.2793
22.500	.4634	.4059	.2449	-.0518	-.2676	-.0434	-.0213	-.0956	.2505	.3808	-.5534	.1635	.2703	.2878
45.000	.4650	.4051	.2468	-.0516	-.3254	.0582	-.0076	-.0979	.2383	.3517	-.5646	.1951	.3525	.3525
67.500	.4535	.3937	.2446	-.0481	-.3555	.0549	-.0021	-.0787	.2224	.3156	-.5483	.2271	.4305	.3710
90.000	.4382	.3719	.2377	-.0481	-.3648	.0547	.0000	-.0608	.2086	.2898	-.5168	.2367	.4138	.3712
112.500	.4307	.3583	.2279	-.0570	-.3952	.0488	-.0022	-.0454	.1965	.2187	-.4832	.2187	.3645	.3457
135.000	.4307	.3583	.2069	-.6705	-.4309	.0169	-.0158	-.0353	.1866	.2628	-.4551	.1707	.3135	.3090
157.500	.4157	.3432	.1914	-.6864	-.4655	-.0167	-.0171	-.0147	.1804	.2607	-.4443	.0943	.2234	.2610
180.000	.4262	.3555	.1873	-.6974	-.4582	-.1115	-.0134	.0016	.1667	.2522	-.5168	-.0623	.0016	.0666
202.500	.4539	.3976	.1950	-.7039	-.4707	-.1800	-.0112	.0115	.1758	.2632	-.3619	-.1575	-.0003	.0470
225.000	.2996	.4821	.2044	-.6497	-.5622	-.2650	-.0152	.0076	.1877	.2847	-.2570	-.1827	-.0564	.0957
247.500	.5294	.4097	.2050	-.4821	-.3044	-.2459	-.0372	-.0065	.2115	.3081	-.2462	-.1598	-.0454	.0703
292.500	.5147	.4814	.2036	-.6465	-.2190	-.0392	-.0322	-.0828	.2602	.4361	-.5248	-.1255	-.0510	.0225
315.000	.4912	.4346	.2557	-.6498	-.1656	-.0057	-.0362	.9.9990	.2576	.4438	-.5272	-.0175	-.2502	-.2414
337.500	.4789	.4117	.2424	-.6527	-.1671	.0147	-.0340	-.0933	.2607	.4205	-.5507	.1698	.2793	.1779

MACH (3) = 1.050 BETA (3) = .000 Q = 8.4534 PTA = 22.009 RL = 6.5780 PSA = 10.958

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L/S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.4823	.4140	.2442	-.6514	-.2223	-.0840	-.0288	-.1181	.1972	.3096	-.5535	.1070	.2052
22.500	.4636	.3967	.2327	-.6589	-.2794	-.0432	-.0307	-.1289	.1886	.2838	-.5572	.1409	.2324	.2162
45.000	.4405	.3731	.2195	-.6688	-.3488	-.0190	-.0353	-.1258	.1841	.2729	-.5474	.1442	.2617	.2614
67.500	.4210	.3531	.2107	-.6667	-.3945	-.0007	-.0276	-.1007	.1804	.2641	-.5250	.1723	.3209	.2967
90.000	.4186	.3493	.2060	-.6691	-.4139	.0112	-.0266	-.0755	.1730	.2566	-.4912	.1987	.3225	.2978
112.500	.4233	.3507	.2030	-.6703	-.4233	.0143	-.0184	-.0550	.1685	.2540	-.4518	.1945	.3051	.2827
135.000	.4119	.3531	.1964	-.6791	-.4396	-.0208	-.0147	-.0224	.1570	.2453	-.4561	.1312	.2341	.2769
157.500	.4256	.3756	.2050	-.6831	-.4524	-.0824	-.0174	-.0146	.1520	.2529	-.4780	.0784	.1607	.2232
180.000	.4531	.4206	.2185	-.6935	-.4827	-.2272	-.0224	.0017	.1709	.2737	-.4581	-.0803	.0233	.0958
202.500	.5218	.4793	.2311	-.6334	-.5257	-.3938	-.0203	-.0060	.1860	.3008	-.2714	-.1470	-.0316	.0504
247.500	.5181	.4545	.2267	-.4762	-.1802	-.3103	-.0261	-.0398	.1932	.3221	-.2342	-.1369	-.0321	.0031
292.500	.4916	.4316	.2588	-.5476	-.0965	-.1764	-.0275	-.0466	.2101	.3415	-.4502	-.1152	-.0244	-.0332
315.000	.4916	.4316	.2765	-.6267	-.0971	-.1478	-.0243	-.0655	.2132	.3425	-.4969	-.0485	.1308	-.1764
337.500	.4823	.4140	.2442	-.6514	-.2223	-.0840	-.0288	-.1181	.1972	.3096	-.5535	.1070	.2052	.0920

NSFC 567(1A32F) TO 53/2 53/2 03 US SRM BOOSTER (R82508)

MACH (3) = 1.050 BETA (4) = 4.000 Q = 8.4534 PTA = 22.009 RL = 6.9780 PSA = 10.958

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4409	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.4771	.4133	.2451	-.6248	-.1313	-.2000	-.1216	-.0682	.1863	.2672	-.4750	.0699	.1378	.0284
22.500	.4386	.3743	.2125	-.6584	-.2418	-.1487	-.1270	-.0727	.1837	.2402	-.4557	.0948	.1500	.0920
45.000	.4028	.3445	.1878	-.6795	-.3384	-.1017	-.1110	-.0731	.1864	.2386	-.4519	.0934	.1536	.1173
67.500			.1767	-.6803	-.4128	-.0493	-.0742	-.0641	.1899	.2436	-.4363	.1196	.1894	.1516
90.000	.3779	.3137	.1719	-.6842	-.4447	-.0219	-.0496	-.0550	.1865	.2417	-.4421	.1512	.2251	.1757
112.500			.1705	-.6790	-.4528	-.0137	-.0218	-.0328	.1855	.2429	-.4457	.1875	.2924	.2481
135.000	.3812	.3168	.1767	-.6815	-.4505	-.0282	-.0103	-.0226	.1781	.2374	-.4740	.1913	.2858	.2570
157.500	.3901	.3250	.1790	-.6847	-.4482	-.0616	-.0016	-.0052	.1722	.2369	-.4678	.1659	.3501	.3179
180.000	.3993	.3425	.2026	-.6759	-.4437	-.1319	.0014	.0079	.1899	.2440	-.4917	.1126	.2136	.2912
202.500	.4179	.3711	.2106	-.6745	-.4262	-.2279	-.0030	.0216	.1722	.2538	-.4838	.0864	.1420	.1873
225.000	.4484	.4135	.2213	-.6839	-.3524	-.3141	-.0148	.0299	.1783	.2742	-.5392	-.0332	.0734	.1335
247.500			.3058	-.6414	-.4478	-.4813	-.0276	.0194	.1875	.3059	-.4089	-.1311	-.0509	.1127
270.000	.5238	.5723	.5293	-.4707	-.1015	-.4490	-.0650	-.0412	.1871	.3227	-.2134	-.1327	-.0729	-.0315
292.500			.4515	-.5164	-.0443	-.2848	-.0924	-.0253	.2064	.3120	-.3770	-.1185	-.0821	-.0545
315.000	.5425	.5304	.3403	-.5891	.1299	-.2467	-.1015	-.0303	.2051	.3006	-.4211	-.0723	.0539	-.1221
337.500	.5176	.4762	.3047	-.6054	.1185	-.2184	-.1138	.0990	.1924	.2934	-.5083	.0084	.1156	-.0572
360.000	.4771	.4195	.2451	-.6248	-.1313	-.2000	-.1216	-.0682	.1865	.2672	-.4750	.0699	.1378	.0284

MACH (3) = 1.050 BETA (5) = 8.000 Q = 8.4534 PTA = 22.009 RL = 6.5780 PSA = 10.958

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4409	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.4581	.4078	.2495	-.5994	.0044	-.3057	-.1975	-.0326	.1809	.2583	-.5011	.0467	.1052	-.0142
22.500	.3988	.3433	.1859	-.6687	-.1135	-.2696	-.2042	-.0285	.1799	.2300	-.4672	.0634	.1104	.0465
45.000	.3537	.2957	.1451	-.6988	-.2479	-.1740	-.1700	-.0226	.1836	.2360	-.4866	.0678	.1185	.0677
67.500			.1365	-.7009	-.3831	-.0899	-.1233	-.0372	.1867	.2436	-.4700	.1003	.1537	.0868
90.000	.3274	.2684	.1292	-.7056	-.4589	-.0488	-.0778	-.0303	.1855	.2329	-.4550	.1510	.2340	.1542
112.500			.1358	-.6911	-.4743	-.0356	-.0377	-.0221	.1808	.2295	-.5100	.1721	.2602	.2053
135.000	.3368	.2784	.1438	-.7003	-.4739	-.0593	-.0258	-.0326	.1722	.2284	-.4943	.1803	.3223	.2802
157.500	.3464	.2935	.1578	-.6920	-.4569	-.1073	-.0158	-.0249	.1612	.2204	-.5019	.1503	.3108	.3076
180.000	.3684	.3349	.2048	-.6665	-.4156	-.1933	.0031	.0123	.1899	.2306	-.5150	.1163	.2393	.2951
202.500	.3924	.3726	.2297	-.6546	-.2972	-.2942	.0045	.0297	.1654	.2331	-.5189	.0757	.1411	.2299
225.000	.4185	.4122	.2416	-.6546	-.2105	-.3922	-.0158	.0219	.1540	.2500	-.5266	.0019	.0910	.1550
247.500			.3183	-.6262	-.2714	-.5203	-.0422	.0047	.1583	.2890	-.4989	-.1100	-.0084	.1331
270.000	.4721	.5306	.5189	-.4660	.0437	-.5585	-.1498	-.0677	.1511	.3074	-.2864	-.1383	-.0357	-.0219
292.500			.4450	-.5081	-.2194	-.3723	-.1839	-.0326	.1832	.2916	-.4367	-.1312	-.0315	-.0421
315.000	.5179	.5293	.3546	-.5568	.1863	-.3175	-.1936	-.0358	.1857	.2806	-.4679	-.0728	-.0776	-.1568
337.500	.5076	.4899	.3372	-.5543	.1281	-.2715	-.1893	.0990	.1845	.2816	-.4964	-.0003	.1292	-.0750
360.000	.4581	.4078	.2495	-.5994	.0044	-.3057	-.1975	-.0326	.1809	.2583	-.5011	.0467	.1052	-.0142

TABLATED SOURCE DATA, MSFC TWT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) 19 53/2 53/2 03 U5 SRM BOOSTER (R82506)

MACH (4) = 1.250 BETA (1) = -8.000 Q = 9.2830 PTA = 22.009 RL = 6.6880 PSA = 8.5280

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.4042	.4115	.3268	-.4009	-.2840	.2015	.0789	-.0405	.0106	.4910	-.5205	.0459	.3282	.2601
22.500	.4009	.4179	.3515	-.3933	-.2581	.1987	.0682	-.0072	.0020	.4346	-.5422	.0199	.5126	.4029
45.000	.4148	.4380	.3749	-.3752	-.2258	.1697	.0670	.0317	-.0029	.3799	-.5403	.0024	.4854	.3932
67.500				-.3954	-.3586	-.2041	.0166	.0596	-.0078	.3267	-.5273	-.0213	.4217	.3697
90.000	.4312	.4628	.4143	-.3533	-.1919	-.0776	.0338	.0483	-.0261	.2775	-.4889	-.0651	.3975	.3793
112.500				.3910	-.3656	-.2115	-.1088	.0094	.0161	.2433	-.4594	-.0806	.3585	.3359
135.000	.4081	.4155	.3670	-.3767	-.2344	-.1421	.0110	-.0092	.0728	.2302	-.4410	-.0948	.3009	.2574
157.500	.3976	.3933	.3339	-.3981	-.2702	-.1953	.0148	-.0042	-.0786	.2283	-.4175	-.1666	.1827	.1555
180.000	.3825	.3832	.3079	-.4117	-.2971	-.2159	.0223	.0077	.0990	.2151	-.4412	-.1039	.1057	.0357
202.500	.4257	.3995	.2992	-.4159	-.3500	-.1634	.0144	.0161	-.0252	.2077	-.4147	-.0795	.0070	-.0447
225.000	.4457	.4407	.3117	-.4316	-.4957	-.1454	-.0315	.0128	.0102	.2210	-.4045	-.1097	-.0756	-.0222
247.500				.4380	-.3741	-.5229	-.2140	-.0279	.0186	.2279	-.3721	-.1347	-.0472	.0742
270.000	.5067	.5961	.6398	-.2257	-.4983	-.3740	-.1092	-.0460	.0038	.2423	-.4043	-.1460	-.0235	.0721
292.500				.4831	-.3431	-.4853	-.0334	.0744	.0113	.5116	-.4534	-.1122	-.0630	-.0366
315.000	.4741	.4717	.3382	-.4246	-.4421	.0919	.1110	-.0539	.0200	.5397	-.4265	.0251	.2654	.3337
337.500	.4475	.4239	.3123	-.4134	-.3154	.1727	.1039	.9.9990	.0130	.5284	-.4736	.0725	.2856	.0885
360.000	.4042	.4115	.3268	-.4009	-.2840	.2015	.0789	-.0405	.0106	.4910	-.5205	.0459	.3282	.2601

MACH (4) = 1.250 BETA (2) = -4.000 Q = 9.2830 PTA = 22.009 RL = 6.6880 PSA = 8.5280

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.3618	.3930	.3381	-.3825	-.2254	.1243	-.0008	-.0552	-.0454	.4180	-.5531	.0116	.2348	.1981
22.500	.3224	.3887	.3463	-.3930	-.2308	.1303	-.0236	-.0464	-.0545	.3596	-.5806	-.0063	.3775	.3485
45.000	.3092	.3876	.3519	-.3823	-.2367	.1112	-.0185	-.0306	-.0599	.3123	-.5816	-.0583	.4255	.3546
67.500				.3546	-.3871	-.2394	.0583	-.0077	.0031	.2762	-.5543	.0913	.3667	.3262
90.000	.2914	.3886	.3599	-.3866	-.2395	.0217	.0063	.0068	-.0654	.2447	-.4957	-.1168	.3531	.3218
112.500				.3500	-.3946	-.2517	.1031	.0135	.0097	.2215	-.4547	-.1462	.3232	.2930
135.000	.2899	.3733	.3399	-.3995	-.2660	.1588	.0189	-.0085	-.0573	.2104	-.4166	-.1739	.2899	.2493
157.500	.3001	.3623	.3127	-.4067	-.2877	.1730	.0226	-.0115	-.0404	.2106	-.3750	-.1750	.2147	.2204
180.000	.3062	.3600	.3008	-.4134	-.3103	.1840	.0149	.0041	.9.9990	.1988	-.3517	-.0457	.0893	.1137
202.500	.3939	.3780	.2899	-.4209	-.3626	.1757	-.0041	.0015	-.0010	.1930	-.7206	-.0753	-.0198	.0429
225.000	.4297	.4297	.3063	-.4351	-.4142	-.2044	-.0158	.0012	.0084	.2038	-.3463	-.1447	-.0979	-.0775
247.500				.4282	-.3825	-.4591	-.2495	-.0036	-.0020	.2166	-.2607	-.1909	.0557	.0333
270.000	.4886	.5912	.6380	-.2281	-.4132	-.3740	-.0148	-.0443	-.0009	.2599	-.3016	-.1955	.0339	.0375
292.500				.5009	-.3243	-.3339	.1103	-.0399	-.0297	.4512	-.3658	-.2135	-.1454	-.0353
315.000	.4679	.4768	.3842	-.4032	-.3020	.0564	.0875	-.0573	-.0245	.4744	-.4081	-.1337	.0010	.1699
337.500	.4294	.4260	.3416	-.3921	-.2629	.1000	.0360	.9.9990	-.0476	.4644	-.4629	-.0091	.2338	.0741
360.000	.3618	.3930	.3381	-.3925	-.2254	.1243	-.0008	-.0552	-.0454	.4180	-.5531	.0116	.2348	.1981

ORIGINAL PAGE IS OF POOR QUALITY

MSFC 567(1A32F) T9 53/2 53/2 03 US SRM BOOSTER

(R82508)

MACH (4) = 1.250 BETA (3) = .000 Q = 9.2830 PTA = 22.009 RL = 6.6880 PSA = 8.5280

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.2779	.3844	.3403	-.3826	-.2073	.0252	-.0506	-.0581	-.0288	.2996	-.5125	.0450	.1941	.3362
22.500	.2179	.3573	.3361	-.3853	-.2220	.0381	-.0774	-.0582	-.0580	.2440	-.5268	.0506	.1952	.2063
45.000	.1806	.3380	.3281	-.3929	-.2429	.0331	-.0706	-.0564	-.0786	.2157	-.5395	.0695	.2487	.2696
67.500	.1635	.2812	.3184	-.3951	-.2596	.0001	-.0449	-.0391	-.0787	.1965	-.5104	.0729	.2680	.2818
90.000	.1842	.2937	.3102	-.4002	-.2727	-.1001	.0040	-.0141	-.0417	.1913	-.4054	.0340	.3273	.2826
112.500	.2124	.3107	.2941	-.4028	-.2948	-.1138	.0032	-.0041	-.0131	.1789	-.3424	.0448	.2745	.2528
135.000	.2042	.3653	.3012	-.4103	-.3074	-.1425	.0107	-.0008	9.9990	.1631	-.4082	.0012	.1491	.2296
157.500	.2269	.3925	.3025	-.4171	-.3562	-.1631	-.0062	-.0091	.0059	.1675	-.3757	-.0380	.0679	.2366
180.000	.2553	.4497	.3246	-.4244	-.3839	-.1835	-.0199	-.0107	.0138	.1850	-.3541	-.0938	-.0302	.1637
202.500	.3003	.6138	.4495	-.4271	-.4262	-.2479	-.0194	-.0165	.0205	.1979	-.2909	-.1476	-.0673	.0565
225.000	.2817	.4907	.5073	-.4210	-.2822	-.1027	.0158	-.0390	.0342	.3781	-.4039	-.1296	-.0521	.1045
247.500	.2446	.4353	.3614	-.3777	-.2336	.0434	-.0449	9.9990	-.0359	.3680	-.4849	.0347	.2354	.2647
270.000	.2779	.3844	.3403	-.3826	-.2073	.0252	-.0506	-.0581	-.0288	.2996	-.5125	.0450	.1941	.0952

MACH (4) = 1.250 BETA (4) = 4.000 Q = 9.2830 PTA = 22.009 RL = 6.6880 PSA = 8.5280

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.3088	.3848	.3438	-.3233	-.1871	-.0785	-.0598	-.0824	.0188	.2525	-.4848	.0268	.1456	.0294
22.500	.2422	.3414	.3115	-.3028	-.2329	-.0884	-.0785	-.0798	-.0188	.2058	-.4918	.0237	.1430	.1095
45.000	.1832	.3097	.2831	-.4103	-.2877	-.0488	-.0886	-.0765	-.0584	.1953	-.5068	.0344	.1463	.1372
67.500	.1095	.2661	.2610	-.4152	-.2860	-.0322	-.0781	-.0544	-.0881	.2012	-.4430	.0596	.1814	.1631
90.000	.1302	.2874	.2553	-.4171	-.2904	-.0173	-.0545	-.0325	-.0845	.2026	-.4190	.0650	.2357	.1741
112.500	.1735	.2923	.2442	-.4184	-.2931	-.0098	-.0337	-.0134	-.0621	.1982	-.3758	.0858	.2472	.1971
135.000	.2061	.3074	.2419	-.4186	-.2879	-.0244	-.0275	-.0084	-.0443	.1859	-.3433	.0913	.2216	.2014
157.500	.2825	.3487	.2463	-.4203	-.3080	-.0619	-.0287	-.0021	-.0314	.1785	-.4211	.0929	.2593	.2145
180.000	.2025	.3487	.2545	-.4329	-.3341	-.1412	-.0368	-.0214	9.9990	.1601	-.4227	.0532	.2166	.2695
202.500	.3433	.4106	.2656	-.4323	-.3392	-.1825	-.0406	-.0161	.0035	.1638	-.3953	-.0223	.0521	.2397
225.000	.4184	.5026	.2697	-.4422	-.3503	-.2097	-.0398	-.0177	.0168	.1799	-.3639	-.1239	-.0224	.1317
247.500	.3333	.4184	.4058	-.3862	-.4024	-.2822	-.0503	-.0122	.0289	.1950	-.2469	-.1711	-.1353	.0512
270.000	.4333	.5174	.4384	-.2173	-.2624	-.2869	-.0388	-.0251	.0417	.2297	-.2489	-.1541	-.1159	.1214
292.500	.4990	.4960	.5468	-.2832	-.1613	-.1646	-.0400	-.0570	.0712	.2954	-.4154	-.1463	-.0976	.1039
315.000	.3355	.3848	.4260	-.3592	-.1488	-.1064	-.0503	-.0790	.0813	.3227	-.4303	-.1294	.0111	.1973
337.500	.3355	.3848	.3917	-.3628	-.1804	-.0772	-.0794	9.9990	.0526	.3179	-.5012	-.0415	-.0959	.0716
360.000	.3355	.3848	.3438	-.3833	-.1871	-.0785	-.0599	-.0824	.0188	.2525	-.4848	.0268	.1456	.0294

DATE 05 SEP 75

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

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MSFC 567(1A32F) 19 S3/2 S3/2 03 US SRM BOOSTER (RB2506)

MACH (4) = 1.250 BETA (5) = 8.000 Q = 9.2030 PTA = 22.009 RL = 6.6880 PSA = 8.5260

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.3352	.3336	-.3785	-.1005	-.1746	-.1201	-.1264	.0351	.2160	-.4505	.0109	.1070	-.6232
22.500	.1922	.2791	.2753	-.4106	-.2195	-.1921	-.1110	-.1197	.0152	.1790	-.4871	.0004	.0845	.0352
45.000	.1484	.2340	.2272	-.4286	-.2774	-.1522	-.0886	-.1027	.0074	.1837	-.4862	.0198	.0509	.0617
67.500		.2061	-.4265	-.2938	-.0527	-.0835	-.0827	-.0397	.1971	-.4668	.0511	.1327	.0876	
90.000	.0886	.1943	.2029	-.4225	-.3022	-.0003	-.0765	-.0483	.0841	.1964	-.4454	.0819	.2029	.1343
112.500		.1964	-.4241	-.3099	.0154	-.0570	-.0229	-.0638	.1775	-.4910	.1352	.2945	.1983	
135.000	.1057	.2119	.2005	-.4261	-.3128	-.0020	-.0574	-.0171	.0600	.1724	-.5204	.1441	.3253	.2473
157.500	.1534	.2364	.2176	-.4278	-.3107	-.0565	-.0558	-.0117	.0513	.1658	-.5202	.1311	.3913	.3400
180.000	.1844	.2753	.2406	-.4328	-.3068	-.1318	-.0577	-.0320	.9.9990	.1633	-.5320	.1239	.3342	.3642
202.500	.2297	.3328	.2686	-.4264	-.2887	-.1929	-.0556	-.0244	.0026	.1725	-.5205	.0395	.1632	.2773
225.000	.2776	.4058	.3054	-.4291	-.2589	-.2218	-.0594	-.0278	.0010	.1872	-.4932	-.0167	.0961	.1856
247.500		.3497	.4166	-.3835	-.3526	-.3034	-.0810	-.0453	.0080	.2282	-.3789	-.1042	-.0119	.1403
270.000		.6349	.6349	-.2219	-.1903	-.3144	-.1022	-.0899	-.0040	.2659	-.3627	-.1167	-.0428	-.3339
292.500		.5306	.5306	-.2561	-.0537	-.2441	-.1558	-.1063	.0440	.2718	-.4245	-.1057	-.0243	-.0204
315.000	.3783	.4813	.4224	-.3945	.1776	-.1863	-.1729	-.1201	.0543	.2733	-.4562	-.0548	.1026	-.1987
337.500	.3435	.4256	.3967	-.3566	.1074	-.1567	-.1703	.9.9990	.0573	.2593	-.4710	-.0009	.1404	-.0837
350.000	.2506	.3352	.3336	-.3785	-.1005	-.1746	-.1201	-.1264	.0351	.2160	-.4505	.0109	.1070	-.6232

MACH (5) = 3.500 BETA (1) = -8.000 Q = 5.7176 PTA = 50.018 RL = 5.3300 PSA = 67500

SECTION (1) SRM BOOSTER

DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI	.000	.3052	.2696	.0159	.0382	.0545	.0071	.0633	.0903	.0731	.0663	.1086	.2909	.3282
22.500	.3734	.3638	.3362	.0519	.0248	.0505	.0312	.0505	.0820	.0759	.0863	.1830	.4861	.3982
45.000	.3842	.3605	.3734	.0397	.0308	.0485	.0441	.0373	.0623	.0816	.0176	.1330	.5497	.4548
67.500		.3955	.0506	.0423	.0497	.0524	.0440	.0555	.0626	.0626	-.0023	.0524	.3326	.5119
90.000	.3860	.3879	.4019	.0843	.0464	.0501	-.0538	.0487	.0460	.0440	-.0253	.0653	.1928	.3295
112.500		.3921	.0506	.0420	.0484	.0511	.0456	.0335	.0335	.0335	-.0371	.0597	.2060	.2872
135.000	.3698	.3660	.3637	.0491	.0298	.0480	.0409	.0267	.0142	.0311	-.0361	.0565	.2172	.2532
157.500	.3586	.3380	.3190	.0305	.0230	.0497	.0281	-.0009	.0054	.0325	-.0182	.0017	.1634	.2250
180.000	.3326	.2845	.2453	-.0053	.0321	.0484	-.0097	-.0165	.9.9990	.0321	-.0476	.0017	.0612	.1232
202.500	.3123	.2334	.2236	.0064	.0267	.0173	-.0337	-.0002	.0223	.0284	-.0273	.0277	.0932	.1245
225.000	.2752	.2072	.2343	.0496	.0505	-.0371	.0104	.0000	.0273	.0273	-.0276	.0325	.0920	.1137
247.500	.2294	.2131	.3857	.3035	.0602	-.0582	-.0249	.0075	.0003	.0453	-.0216	.0135	.0767	.1139
270.000		.6021	.5656	.0968	-.0692	-.0286	.0081	.0078	.0399	-.0493	.0051	.0645	.1459	
292.500	.2127	.2064	.4280	.0782	.0741	-.0592	-.0117	.0835	.0880	.0758	.0663	.0075	.1005	.0171
315.000	.3146	.2355	.2334	.0169	.0382	.0139	-.0215	.9.9990	.1116	.0567	.4692	.0269	.1895	.1939
337.500		.3549	.2656	.0159	.036E	.0545	.0071	.0533	.0903	.0731	.0563	.1086	.2915	.3282

MSFC 567(1A32F) T9 S3/2 S3/2 03 US SRM BOOSTER

(R22E2E)

MACH (5) = 3.500 BETA (2) = -.000 Q = 5.7176 PTA = 50.018 RL = 5.3300 PSA = .57500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI														
.000	.2903	.2510	.2219	-.0002	.0166	.0169	.0125	.0450	.0413	.0291	.0589	.0825	.2257	.2331
22.500	.2906	.2750	.2622	.0066	.0031	.0132	.0058	.0389	.0389	.0291	.0213	.1367	.3542	.2926
45.000	.2868	.2845	.2803	.0135	-.0009	.0186	.0173	.0376	.0298	.0277	-.0327	.1076	.4154	.3234
67.500			.2869	.0220	.0044	.0186	.0223	.0291	.0325	.0247	-.0324	.0382	.3187	.3850
90.000	.2798	.2878	.2889	.0240	.0094	.0159	.0234	.0217	.0244	.0176	-.0381	.0193	.1750	.2821
112.500			.2852	.0220	.0037	.0186	.0200	.0142	.0098	.0091	-.0378	.0325	.1262	.2220
135.000	.2747	.2706	.2713	.0149	-.0029	.0183	.0139	-.0016	-.0009	-.0019	-.0401	.0328	.1354	.1911
157.500	.2778	.2612	.2470	.0037	-.0016	.0149	.0007	-.0134	-.0067	-.0070	-.0259	.0145	.1133	.1624
180.000	.2877	.2295	.1994	-.0162	.0125	.0058	-.0209	-.0158	9.9990	.0000	-.0408	.0031	.0773	.0978
202.500	.2596	.1917	.1808	-.0128	.0057	-.0030	-.0432	-.0098	.0033	-.0077	-.0145	.0196	.0767	.1115
225.000	.2349	.1670	.2022	.0287	.0426	-.0591	-.0402	-.0199	-.0172	.0027	-.0175	.0277	.0705	.1083
247.500			.2759	.2346	.0510	-.0737	-.0432	-.0229	-.0155	.0189	-.0149	.0244	.3871	.3964
270.000	.1957	.1707	.6258	.4537	.0996	-.0740	-.0493	-.0131	-.0185	.0175	-.0388	.1126	.1075	.1357
292.500			.2691	.2799	.0562	-.0734	-.0093	.0267	.0287	.0014	.0125	.2568	.2530	.2530
315.000	.2329	.1656	.2157	.0564	.0595	-.0676	.0165	.0473	.0324	.0229	.0051	.0017	.1267	-.0293
337.500	.2681	.1961	.1927	-.0027	.0131	-.0006	9.9990	.0375	.0199	.0199	.2705	.2213	.1587	.1238
360.000	.2503	.2519	.2219	-.0002	.0166	.0169	.0125	.0450	.0413	.0291	.0589	.0825	.2257	.2331

MACH (5) = 3.500 BETA (3) = .000 Q = 5.7176 PTA = 50.018 RL = 5.3300 PSA = .57500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8634	.9122	.9555
PHI														
.000	.2226	.1955	.1773	-.0155	-.0023	-.0002	.0254	-.0043	.0102	.0081	.0358	.0125	.1671	.1259
22.500	.2152	.2057	.1952	-.0134	-.0144	-.0165	.0146	.0027	-.0009	.0075	-.0139	.0215	.1590	.1350
45.000	.2033		.1998	-.0111	-.0246	-.0097	-.0023	.0058	-.0260	.0051	-.0428	.0247	.1839	.1568
67.500			.1983	-.0094	-.0242	-.0057	-.0029	.0081	-.0023	.0017	-.0391	.0159	.1627	.2034
90.000	.1918	.1979	.1979	-.0070	-.0228	-.0097	-.0029	.0058	.0007	-.0056	-.0354	.0217	.1452	.2156
112.500			.1972	-.0088	-.0244	-.0091	-.0064	-.0058	-.0527	-.0368	-.0310	.0261	.0907	.1137
135.000	.1932	.1932	.1955	-.0124	-.0280	-.0087	-.0117	-.0107	-.0319	-.0040	-.0354	.0294	.1103	.1228
157.500	.2094	.1998	.1905	-.0168	-.0239	-.0209	-.0226	-.0185	-.0356	.0303	-.0388	.0227	.1089	.1208
180.000	.2297	.1978	.1715	-.0263	-.0012	.0017	-.0341	-.0195	9.9990	.0125	-.0611	.0355	.1245	.1387
202.500	.2263	.1658	.1607	-.0202	-.0144	-.0141	-.0429	-.0188	-.0312	.0320	-.0459	.0108	.1120	.1346
225.000	.2087	.1458	.1861	.0139	.0230	-.0621	-.0378	-.0347	-.0161	.0031	-.0445	.0169	.1534	.0680
247.500	.1715	.1668	.2392	.1783	.0440	-.0726	-.0456	-.0347	-.0144	.0183	-.0087	.0395	.0533	.0765
270.000			.2478	.4259	.0846	-.0743	-.0456	-.0303	-.0168	.0031	-.0354	.0224	.2835	.2961
292.500			.2571	.2196	.0626	-.0747	-.0026	.0156	.0075	.0429	.0179	.1122	.3318	.2577
315.000	.2037	.1367	.2026	.0376	.0491	-.0645	.0145	.0129	.0213	.0552	.0225	.1145	.2630	.1345
337.500	.2292	.1650	.1666	-.0094	-.0033	-.0087	.0331	9.9990	.0213	.0253	.1259	.0129	.1414	.0582
360.000	.2226	.1955	.1773	-.0155	-.0023	-.0002	.0254	-.0043	.0102	.0081	.0358	.0125	.1671	.1259

MSFC 567(1A32F) T9 53/2 53/2 03 US SRM BOOSTER (R82556)

MACH (5) • 3.500 BETA (4) • 4.000 Q • 5.7176 PTA • 50.018 PL • 5.3300 PSA • 67500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L/S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1832	.1741	.1775	-.0138	-.0152	-.0273	.0250	-.0327	-.0128	-.0273	.0016	-.0118	.0501	.0524
22.500	.1631	.1570	.1577	-.0239	-.0307	-.0314	-.0104	-.0361	-.0219	-.0253	-.0524	-.0118	.0522	.0841
45.000	.1437	.1423	.1423	-.0236	-.0409	-.0297	-.0219	-.0348	-.0240	-.0250	-.0621	-.0263	.0470	.1154
67.500	.1335	-.0300	-.0300	-.0429	-.0260	-.0179	-.0250	-.0219	-.0179	-.0409	-.0131	-.0409	.0639	.1132
90.000	.1274	.1291	.1295	-.0287	-.0429	-.0284	-.0142	-.0145	-.0192	-.0104	-.0347	-.0047	.0047	.1116
112.500	.1274	-.0317	-.0317	-.0449	-.0307	-.0213	-.0179	-.0135	-.0333	-.0337	.0217	.0217	.0247	.1666
135.000	.1295	.1278	.1328	-.0324	-.0466	-.0304	-.0273	-.0172	-.0043	-.0333	-.0375	.0263	.1122	.1011
157.500	.1512	.1445	.1445	-.0310	-.0442	-.0364	-.0368	-.0178	-.0022	-.0037	-.0368	.0114	.0249	.1315
180.000	.1769	.1539	.1512	-.0259	-.0104	-.0151	-.0462	-.0205	9.5990	.0085	-.0118	.0845	.0845	.1525
202.500	.1803	.1668	.1753	-.0192	-.0205	-.0368	-.0368	-.0232	-.0340	.0017	-.0195	.0227	.0853	.1382
225.000	.1722	.1989	.1708	-.0178	-.0368	-.0818	-.0330	-.0073	-.0037	-.0165	-.0230	.0788	.0788	.0597
247.500	.1512	.2152	.1347	.1012	.0146	-.0723	-.0479	-.0341	-.0050	.0081	-.0138	.0098	.0450	.0634
270.000	.1441	.2635	.1441	.2635	.0548	-.0743	-.0175	-.0401	-.0067	-.0037	-.0324	.0118	.0409	.0539
292.500	.1749	.2229	.1323	.1475	.0403	-.0743	.0440	.0186	.0135	-.0255	.0159	.0339	.0339	.0572
315.000	.1962	.1945	.1878	.0054	-.0229	-.0611	.0321	-.0092	.0284	.0328	.0090	.0095	.0328	.0368
337.500	.1832	.1741	.1775	-.0138	-.0152	-.0273	.0250	-.0327	-.0128	-.0273	.0016	-.0118	.0501	.0524

MACH (5) • 3.500 BETA (5) • 8.000 Q • 5.7176 PTA • 50.018 PL • 5.3300 PSA • 67500

SECTION (1) SRM BOOSTER DEPENDENT VARIABLE CP

X/L/S	.0433	.0722	.1013	.1158	.1518	.2240	.3323	.4405	.5488	.6570	.7653	.8834	.9122	.9555
PHI														
.000	.1590	.1695	.1651	-.0259	-.0327	-.0124	-.0222	-.0781	-.0320	-.0401	-.0524	-.0263	.0541	.0524
22.500	.1194	.1218	.1259	-.0371	-.0456	-.0385	-.0418	-.0620	-.0594	-.0381	-.0622	-.0195	.0321	.0220
45.000	.0907	.0934	.0920	-.0415	-.0544	-.0408	-.0550	-.0517	-.0577	-.0401	-.0780	-.0145	.0334	.0352
67.500	.0751	.0751	.0751	-.0486	-.0554	-.0405	-.0442	-.0503	-.0435	-.0445	-.0632	-.0155	.0356	.0453
90.000	.0727	.0751	.0707	-.0462	-.0554	-.0405	-.0337	-.0422	-.0334	-.0381	-.0630	-.0144	.0334	.0566
112.500	.0765	.0712	.0708	-.0500	-.0568	-.0453	-.0378	-.0219	-.0145	-.0138	-.0578	.0210	.1653	.1559
135.000	.1052	.1068	.0805	-.0500	-.0500	-.0473	-.0422	-.0165	.0314	.0012	-.0528	.0268	.0732	.1554
157.500	.1478	.1462	.1089	-.0449	-.0598	-.0510	-.0445	-.0151	-.0097	.0070	-.0537	.0108	.0108	.0591
180.000	.1783	.1694	.1465	-.0286	-.0151	-.0300	-.0469	-.0097	9.9990	.0640	-.0557	.0196	.0777	.0591
202.500	.2334	.2037	.1729	-.0371	-.0371	-.0347	-.0523	-.0673	-.0090	-.0175	-.0503	.0342	.0782	.1593
225.000	.2920	.2637	.0609	-.0371	-.0483	-.0625	-.0286	-.0202	-.0127	.0151	-.0253	.0257	.0501	.0501
247.500	.270.000	.1715	.1401	.0220	-.0094	-.0892	-.0371	-.0219	-.0194	-.0111	-.0314	.0044	.0220	.0470
292.500	.2771	.2493	.0545	.0895	.0108	-.0489	.0565	-.0053	-.0239	-.0083	-.0378	.0044	.0190	.0545
315.000	.2270	.2348	.0602	-.0246	-.0368	.0721	.0443	.0203	-.0070	-.0107	-.0503	.0085	.0572	.0124
337.500	.1590	.1695	.1651	-.0259	-.0327	-.0124	-.0222	-.0781	-.0320	-.0401	-.0524	-.0263	.0541	.0524

MSFC 567(1A32F) T9 S3/2 S3/2 03 ORB. UPPER WING (RB2001) (24 APR 74)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XWPP = 2.5480 " L
 LREF = 5.3130 IN. YWPP = .0000 IN.
 BREF = 5.3130 IN. ZWPP = 1.3320 IN.
 SCALE = .0040 SCALE

PARAMETRIC DATA

BETA = .000 CONFIG = 90.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBITALC = .500

MACH (1) = .500 ALPHA (1) = -10.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2950 .4270 .6730 .8870

X/CM

-.490 .4737
 -.150 .0925
 -.033 .1672
 .050 .2158 .2977 .2594
 .150 .0708 .0345 -.0625
 .250 -.1183 -.1412 -.2278
 .400 -.1800 -.2728 -.2639
 .550 -.1050
 .600
 .700
 .750 -.0793
 .900 -.0458
 .950 -.0632

MACH (1) = .600 ALPHA (2) = -8.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2950 .4270 .6730 .8870

X/CM

-.490 .5085
 -.150 .6691
 -.033 .2485
 .050 .1608 .2325 .2164
 .150 .0142 -.0431 -.1403
 .250 -.0616 -.2131 -.2940
 .400 -.2145 -.3180 -.2975
 .550 -.1281
 .600
 .700
 .750 -.0602
 .900 -.0398
 .950 -.0254

MSFC 567(1A32F) T9 53/2 53/2 03 ORB. UPPER WING (R82U01)

MACH (1) = .600 ALPHA (3) = -5.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2990	.4270	.6730	.8870
X/CW				
-.490	.5010			
-.150	.0476			
-.033	.2968			
.050	.0707	.1191	.0859	
.150	-.0664	-.1708	-.2917	
.250	-.1064	-.3135	-.3942	
.400	-.2525	-.3759	-.3443	
.550	-.1323			
.600				
.700				
.750	-.0681			
.900	-.0209			
.950	-.0325			

MACH (1) = .600 ALPHA (4) = -2.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2990	.4270	.6730	.8870
X/CW				
-.490	.4747			
-.150	.0116			
-.033	.2914			
.050	-.0541	-.0798	-.1465	
.150	-.1759	-.3438	-.4923	
.250	-.1694	-.4446	-.5395	
.400	-.3076	-.4509	-.4201	
.550	-.1532			
.600				
.700				
.750	-.0712			
.900	-.0102			
.950	-.0261			

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OF POOR QUALITY

TABLED SOURCE DATA, MSFC TMT 987 (1A32F)

DATE 05 SEP 75

(R82U01)

MSFC 987(1A32F) TO 53/2 53/2 03 ORB. UPPER MING

MACH (1) = .600 ALPHA (5) = .000 Q = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2980 .4270 .6730 .8870

X/CM				
.480	.4814			
.150	-.0200			
.033	.2743			
.050	-.1481	-.2383	-.3418	
.150	-.2450	-.4658	-.6508	
.250	-.2194	-.5356	-.6481	
.400	-.3485	-.5090	-.4864	
.550	-.1787			
.600			-.1822	
.700		-.1036		
.750	-.0751			
.900	-.0138			
.950	-.0245			

MACH (1) = .600 ALPHA (6) = 2.000 Q = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2980 .4270 .6730 .8870

X/CM				
.480	.4573			
.150	-.0528			
.033	.2157			
.050	-.2640	-.4415	-.6337	
.150	-.3388	-.6234	-.6825	
.250	-.2694	-.6485	-.7909	
.400	-.3873	-.3828	-.5867	
.550	-.1848			
.600			-.2128	
.700		-.1161		
.750	-.0849			
.900	-.0158			
.950	-.0307			

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(RBEJ011)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 O3 ORB. UPPER WING

MACH (1) = .600 ALPHA (7) = 5.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.4270	.6730	.6870
X/CM				
	-.490	.3476		
	-.150	-.0938		
	-.033	.0559		
	.050	-.4356	-.7469	-1.1010
	.150	-.4593	-.6394	-1.1647
	.250	-.3326	-.6007	-1.0270
	.400	-.4268	-.6439	-.5928
	.550	-.2194		-.2914
	.600			
	.700		-.1303	
	.750		-.0965	
	.900		-.0158	
	.950	-.0245		

MACH (1) = .600 ALPHA (8) = 8.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.4270	.6730	.6870
X/CM				
	-.490	.1384		
	-.150	-.1347		
	-.033	-.1829		
	.050	-.6057	-1.1248	-1.9271
	.150	-.5748	-1.0112	-1.3867
	.250	-.3964	-.6928	-1.1025
	.400	-.4669	-.6518	-.6883
	.550	-.2404		-.3356
	.600			
	.700		-.1768	
	.750		-.1334	
	.900		-.0414	
	.950	-.0219		

MSFC 567(1A32F) T9 S3/2 S3/2 03 ORB. UPPER WING (R82U01)

MACH (1) = .600 ALPHA (9) = 10.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	.2980	.4270	.6730	.8870
X/CH				
-.490	-.0065			
-.150	-.1777			
-.033		-.3218		
.050		-.6978	-1.6209	-2.1867
.150		-.6363	-1.1209	-1.7533
.250	-.4544		-.9651	-1.3644
.400		-.5066	-.6952	-.8478
.550	-.2726			
.600				-.4145
.700			-.2448	
.750		-.1819		
.900		-.0634		
.950	-.0340			

MACH (2) = .900 ALPHA (1) = -10.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	.2980	.4270	.6730	.8870
X/CH				
-.490	.5310			
-.150	.1376			
-.033		.2882		
.050		.2793	.3422	.2787
.150		.1538	.0203	-.0809
.250	.0728		-.1082	-.3354
.400		-.1454	-.3701	-.5008
.550	-.1568			
.600				-.3232
.700			-.1882	
.750		-.1418		
.900		-.1035		
.950	-.0983			



TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

(R82U01)

MSFC 567(1A32F) 19 53/2 53/2 03 ORB. UPPER WING

MACH (2) = .900 ALPHA (2) = -8.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CH	.2990	.4270	.6730	.8870
-.490	.5679			
-.150	.1142			
-.033		.3243		
.050	.2301	.2800	.2357	
.150	.0991	.0233	-.1541	
.250	.0275	-.1759	-.4173	
.400		-.1883	-.4311	-.5834
.550	-.1971			
.600				-.3373
.700			-.1751	
.750		-.1438		
.900		-.0839		
.950	-.0827			

MACH (2) = .900 ALPHA (3) = -5.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CH	.2990	.4270	.6730	.8870
-.490	.4938			
-.150	.0768			
-.033		.3528		
.050	.1339	.1725	.1264	
.150	.0040	-.1124	-.3111	
.250	-.0437	-.2826	-.9512	
.400		-.2547	-.5215	-.6590
.550	-.2635			
.600				-.4807
.700			-.1859	
.750		-.1437		
.900		-.0537		
.950	-.0586			

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(R82U01)

NSFC 667(1A32F) TO 63/2 63/2 03 ORB. UPPER HING

MACH (2) = .900 ALPHA (4) = -2.000 Q = 7.3609 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2860 .4270 .6730 .6670

X/CA	Y/BA
.408	.4367
.150	.0451
.033	.3383
.050	.6272
.150	.0263
.250	-.0248
.400	-.2625
.500	-.4143
.600	-.5955
.700	-.7810
.800	-.9101
.900	-.9828
.950	-.9938
.700	-.3035
.750	-.1817
.800	-.0282

MACH (2) = .900 ALPHA (5) = .000 Q = 7.3609 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2860 .4270 .6730 .6670

X/CA	Y/BA
.408	.3848
.150	.0183
.033	.3235
.050	-.0200
.150	-.1888
.250	-.1878
.400	-.3578
.500	-.5381
.600	-.7640
.700	-.9015
.800	-.9407
.900	-.9417
.950	-.8174
.700	-.1386
.800	-.0181
.900	-.0311

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(182U01)

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MSFC 567(1A32F) T9 S3/2 S3/2 03 ORB. UPPER WING

MACH (2) = .900 ALPHA (6) = 2.000 Q = 7.3509 PTA = 22.007 RL = 6.2778 PSA = 12.965

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA	.2990	.4270	.6730	.6870
X/CA				
	-.490	.3278		
	-.150	.0003		
	-.033	.2691		
	.050	-.1524	-.2557	-.3861
	.150	-.2433	-.5295	-.8214
	.250	-.2110	-.6507	-.7637
	.400	-.4137	-.7262	-.6269
	.550	-.3521		-.5401
	.600			
	.700		-.2774	
	.750		-.1306	
	.900		-.0044	
	.950	-.0169		

MACH (2) = .900 ALPHA (7) = 5.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.965

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA	.2990	.4270	.6730	.6870
X/CA				
	-.490	.1539		
	-.150	-.0304		
	-.033	.1911		
	.050	-.2653	-.4500	-.6141
	.150	-.3462	-.7165	-.8557
	.250	-.2603	-.6370	-.5292
	.400	-.4866	-.7698	-.5118
	.550	-.3783		
	.600			-.5483
	.700		-.3308	
	.750		-.1466	
	.900		-.0439	
	.950	-.0248		

MSFC 967(1A32F) TO 53/2 53/2 03 ORB, UPPER HING (R82U01)

MACH (2) = .800 ALPHA (8) = 0.000 0 = 7.3609 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA	.2960	.4270	.6730	.8670
X/CA				
-.400	-.0345			
-.150	-.0708			
-.033		.0721		
.050		-.4131	-.6244	-.9235
.150		-.4737	-.6634	-.9098
.250	-.3781		-.6900	-.9032
.400		-.5825	-.7472	-.9058
.550	-.3808			
.600				-.8009
.700			-.4248	
.750		-.2194		
.900		-.0988		
.950	-.0382			

MACH (2) = .800 ALPHA (8) = 16.000 0 = 7.3609 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA	.2960	.4270	.6730	.8670
X/CA				
-.400	-.1178			
-.150	-.1078			
-.033		.0529		
.050		-.4752	-1.0148	-.8081
.150		-.5287	-.9888	-.8428
.250	-.4318		-.9408	-.8188
.400		-.6048	-.8808	-.8104
.550	-.2888			
.600				-.8188
.700			-.5428	
.750		-.2841		
.900		-.1775		
.950	-.0888			

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) 19 53/2 53/2 03 ORB. UPPER WING (RBEU01)

MACH (3) = 1.050 ALPHA (1) = -10.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.4270	.6730	.8870
X/CM				
-.490	.1477			
-.150	.2071			
-.033		.4183		
.050	.4343	.4825	.4314	
.150	.3248	.2767	.1326	
.250	.2356	.1062	-.0943	
.400	.0600	-.1328	-.2593	
.550	-.0050			
.600			-.2681	
.700			-.1258	
.750		.0148		
.900		-.0600		
.950	-.0549			

MACH (3) = 1.050 ALPHA (2) = -8.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.4270	.6730	.8870
X/CM				
-.490	.3184			
-.150	.1708			
-.033		.4265		
.050	.3723	.4312	.3859	
.150	.2637	.2048	.0668	
.250	.1824	.0380	-.1820	
.400	.0224	-.1821	-.3570	
.550	-.0403			
.600			-.3456	
.700			-.2174	
.750		-.1131		
.900		-.0910		
.950	-.0738			

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MSFC 567(1A32F) TO 53/2 53/2 03 088. UPPER WING (R82U01)

MACH (3) = 1.050 ALPHA (3) = -5.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.982

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2880 .4270 .6730 .8870

X/CM	Y/BW	CP
.490	.2880	.2684
.150	.1443	
-.033		.4737
.650	.6722	.3185 .3128
.150	.1644	.0720 -.0692
.250	.1238	-.0774 -.2031
.400	-.0388	-.8861 -.4505
.550	-.0882	
.600		-.4088
.700		-.2778
.750	-.1043	
.900	-.1593	
.530	-.0888	

MACH (3) = 1.250 ALPHA (4) = -2.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.982

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2880 .4270 .6730 .8870

X/CM	Y/BW	CP
.490	.2150	
-.150	.1180	
-.033		.4507
.050	.1528	.1740 .1437
.150	.0560	-.0810 -.2060
.250	.9532	-.2141 -.4357
.400	-.0638	-.3448 -.5528
.550	-.0885	
.600		-.4248
.700		-.3320
.750	-.2088	
.900	-.2467	
.950	-.0882	

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TABULATED SOURCE DATA. MSFC INT 587 (1A3EF)

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MSFC 587(1A3EF) TO 53/2 53/2 03 ORB. UPPER WING

(R82J01)

MACH (3) = 1.050 ALPHA (5) = .000 Q = 8.4371 PTA = 22.007 PL = 6.5711 PSA = 12.982

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2980 .4270 .6730 .8870

X/CH	Y/BM	CP
.490	.2980	.1269
.150	.2980	.0940
.033	.2980	.0191
.050	.4270	.0725
.150	.4270	-.0093
.250	.4270	.0016
.400	.4270	-.1950
.550	.4270	-.1002
.600	.4270	.0000
.700	.4270	-.3688
.750	.4270	-.2258
.900	.4270	-.2482
.950	.4270	-.0810
.490	.6730	.0147
.150	.6730	-.2049
.033	.6730	-.3241
.050	.8870	-.5795
.150	.8870	-.4240
.250	.8870	-.9599
.400	.8870	-.5732

MACH (3) = 1.050 ALPHA (6) = 2.000 Q = 8.4371 PTA = 22.007 PL = 6.5711 PSA = 12.982

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2980 .4270 .6730 .8870

X/CH	Y/BM	CP
.490	.2980	.0215
.150	.2980	.0657
.033	.2980	.3469
.050	.4270	-.0379
.150	.4270	-.0970
.250	.4270	-.0944
.400	.4270	-.2228
.550	.4270	-.1280
.600	.4270	.0000
.700	.4270	-.3574
.750	.4270	-.2324
.900	.4270	-.1871
.950	.4270	-.0581
.490	.6730	-.1812
.150	.6730	-.3423
.033	.6730	-.4859
.050	.8870	-.7024
.150	.8870	-.5158
.250	.8870	-.7290
.400	.8870	-.6891

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TABLED SOURCE DATA, MFPC THT 667 (1A2EF)

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MFPC 667(1A2EF) 19 33/2 93/2 03 098. UPPER MIMO (R62L01)

MACH (3) = 1.000 ALPHA (7) = 0.000 Q = 0.4371 PTA = 22.007 PL = 0.5711 PSL = 10.002

SECTION (1108)ITER MIMO DEPENDENT VARIABLE CP

Y/2M	.2000	.4578	.6738	.8870
X/CH				
.400	-.2628			
.450	.0304			
.500		.2853		
.550		-.1635	-.3149	-.4988
.600		-.2188	-.5088	-.7222
.650	-.1408		-.6358	-.8736
.700		-.3014	-.8388	-.9293
.750	-.1800			-.9506
.800			-.3045	
.850		-.2298		
.900		-.2218		
.950	.0151			

MACH (3) = 1.000 ALPHA (8) = 0.000 Q = 0.4371 PTA = 22.007 PL = 0.5711 PSL = 10.002

SECTION (1108)ITER MIMO DEPENDENT VARIABLE CP

Y/2M	.2000	.4578	.6738	.8870
X/CH				
.400	-.3734			
.450	.0307			
.500		.1288		
.550		-.2338	-.0408	-.7443
.600		-.2788	-.6774	-.8871
.650	-.1983		-.6786	-.4918
.700		-.4223	-.6425	-.5078
.750	-.2228			-.5247
.800			-.4087	
.850		-.2175		
.900		-.1731		
.950	.0118			

TABLATED SOURCE DATA. MSFC TMT 667 (1A32F)

MSFC 667(1A32F) TO 63/2 53/2 03 ORB. UPPER WING (682001)

MACH (3) = 1.050 ALPHA (9) = 10.000 Q = 0.4371 P/A = 22.007 RL = 0.5711 PSA = 10.962

SECTION 1 110RBITER WING DEPENDENT VARIABLE CP

Y:BN .2990 .4270 .6730 .8870

X:CM	
.090	-.4188
.150	.0064
.032	.1308
.050	-.2377
.150	-.7083
.250	-.7263
.400	-.6962
.550	-.6841
.600	-.6913
.700	-.4924
.750	-.4506
.800	-.6271
.850	-.4979
.900	-.4961
.950	-.4718
.990	-.2285
1.000	-.1569
1.050	-.0031

MACH (4) = 1.250 ALPHA (1) = -10.000 Q = 0.2928 P/A = 22.008 RL = 0.6822 PSA = 0.758

SECTION 1 110RBITER WING DEPENDENT VARIABLE CP

Y:BN .2990 .4270 .6730 .8870

X:CM	
.090	.2001
.150	.0330
.033	.1789
.050	-.2234
.150	.3862
.250	.4691
.400	.1718
.550	.2278
.600	.0518
.700	.0488
.750	.0875
.800	.0347
.850	-.1182
.900	-.1660
.950	-.0434
1.000	.0093
1.050	-.0545
1.100	.0159

MSFC 567(1A32F) TO S3/2 S3/2 03 ORB. UPPER MING (R82U01)

MACH (4) = 1.250 ALPHA (2) = -8.000 Q = 9.2828 PTA = 22.006 RL = 8.6822 PSA = 8.4798

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA	.2000	.4270	.6730	.8870
X/CA				
.490	.2068			
.150	.0072			
.033		.1983		
.050		.1784	.3523	.4061
.150		.0837	.1232	.0948
.250	-.0205		-.0342	-.0668
.400		-.0180	-.0624	-.1977
.550	.0500			
.600				-.1818
.700			-.0584	
.750		-.0052		
.900		-.0945		
.950	-.0178			

MACH (4) = 1.250 ALPHA (3) = -5.000 Q = 9.2828 PTA = 22.006 RL = 8.6822 PSA = 8.4798

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA	.2000	.4270	.6730	.8870
X/CA				
.490	.2037			
.150	-.6237			
.033		.2660		
.050		.1808	.6718	.3143
.150		.0181	.0237	-.0880
.250	-.0488		-.1286	-.2340
.400		-.1343	-.0882	-.3880
.550	.0232			
.600				-.3452
.700			-.0659	
.750		-.0407		
.900		-.1481		
.950	-.0852			

TABLULATED SOURCE DATA, MSFC THT 567 (11A32F)

(R82J011)

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MSFC 567(11A32F) T9 S3/2 S3/2 03 ORB. UPPER WING

MACH (4) = 1.250 ALPHA (4) = -2.000 Q = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2590 .4270 .6730 .8870

X/CM	Y/BW	CP
.490	.1351	
.150	-.0596	
.033	.3230	
.050	.0463	.1338
.150	-.0386	-.1068
.250	-.0916	-.2380
.400	-.2384	-.3675
.550	-.0430	-.4839
.600		-.4456
.700		-.1845
.750	-.0686	
.900	-.1901	
.950	-.1269	

MACH (4) = 1.250 ALPHA (5) = .000 Q = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2590 .4270 .6730 .8870

X/CM	Y/BW	CP
.490	.1063	
.150	-.0613	
.033	.3477	
.050	-.0124	.0578
.150	-.0875	-.1768
.250	-.1042	-.3135
.400	-.2584	-.4453
.550	-.0729	-.5340
.600		-.5036
.700		-.3474
.750	-.0881	
.900	-.2159	
.950	-.1808	

TABLATED SOURCE DATA, NSFC TMT 907 (1A3EF)

(R02U011)

NSFC 06711A3EF) TO 03/2 03/2 03 090. UPPER HING

MACH (4) = 1.250 ALPHA (6) = 2.000 Q = 0.2622 PTA = 22.000 RL = 0.6822 PSA = 0.1780

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2000 .4270 .6730 .0070

X/CA	
-.450	.0608
-.150	-.0818
-.033	.3171
.050	-.1078
.150	-.1803
.250	-.1423
.400	-.3481
.550	-.1427
.600	
.700	-.4473
.750	-.0882
.900	-.2073
.950	-.1806

MACH (4) = 1.250 ALPHA (7) = 5.000 Q = 0.2826 PTA = 22.000 RL = 0.6822 PSA = 0.1780

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2000 .4270 .6730 .0070

X/CA	
-.450	-.0178
-.150	-.1199
-.033	.1714
.050	-.2323
.150	-.2567
.250	-.1778
.400	-.4018
.550	-.2284
.600	
.700	-.5417
.750	-.1378
.900	-.2288
.950	-.2108

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 63/2 93/2 03 ORB. UPPER HING (R62U01)

MACH (4) = 1.250 ALPHA (8) = 6.000 Q = 9.8926 PTA = 22.006 RL = 6.6622 PSA = 8.4788

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2990 .4270 .6730 .6870

X/CA	Y/BA
-.490	-.1484
-.150	-.1722
-.033	-.0091
.050	-.3878
.150	-.3126
.250	-.2063
.400	-.4271
.550	-.3290
.600	-.5525
.700	-.5702
.750	-.2018
.900	-.2847
.950	-.2148

MACH (4) = 1.250 ALPHA (8) = 10.000 Q = 9.2926 PTA = 22.006 RL = 6.6622 PSA = 8.4788

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2990 .4270 .6730 .6870

X/CA	Y/BA
-.490	-.1849
-.150	-.1940
-.033	-.0500
.050	-.4259
.150	-.3743
.250	-.2285
.400	-.4329
.550	-.3787
.600	-.5247
.700	-.5600
.750	-.2388
.900	-.2706
.950	-.2303

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MWFC 887(1A3EF) TO 83/2 83/2 03 088. UPPER MING (R88J01)

MACH (5) = 1.480 ALPHA (1) = -10.000 Q = 9.4738 PTA = 22.009 PL = 6.5300 PSA = 6.3819

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BM .2600 .4270 .6730 .8870

X/CM	Y/BM	Z/CM	CP
.480	.2600	.4270	.6730
.480	.2600	.4270	.8870
.150	.1087		
.033		.2081	
.050		.2224	.4002
.150		.1378	.1844
.250	-.0027		.0388
.400		-.0688	-.1211
.550	.0511		-.1557
.600			-.2282
.700		.0388	
.750		.0872	
.900		-.0108	
.950	.0288		

MACH (5) = 1.480 ALPHA (2) = -8.000 Q = 9.4738 PTA = 22.009 PL = 6.5300 PSA = 6.3819

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BM .2600 .4270 .6730 .8870

X/CM	Y/BM	Z/CM	CP
.480	.2600	.4270	.6730
.480	.2600	.4270	.8870
.150	.0702		
.033		.2237	
.050		.1751	.4412
.150		.0688	.1510
.250	-.0411		-.0057
.400		-.1111	-.1993
.550	.0195		-.1871
.600			-.2600
.700		-.0688	
.750		.0612	
.900		-.0380	
.950	-.0113		

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TABLATED SOURCE DATA, MSFC TWT 567 (1A32F)

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MSFC 567(1A32F) T9 S3/2 S3/2 03 ORB. UPPER WING (R82J01)

MACH (5) = 1.460 ALPHA (3) = -5.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CM				
-.490	.1682			
-.150	.0408			
-.033		.2472		
.050	.0972	.3044	.3663	
.150	.0143	.0659	.0661	
.250	-.0820	-.0812	-.1081	
.400		-.1731	-.2531	
.550	-.0493			
.600			-.3110	
.700		-.2269		
.750	.0225			
.900	-.0555			
.950	-.0411			

MACH (5) = 1.460 ALPHA (4) = -2.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CM				
-.490	.0531			
-.150	-.0073			
-.033		.2150		
.050	.0188	.2284	.3013	
.150	-.0231	-.0231	-.0387	
.250	-.1205	-.1642	-.1968	
.400		-.2202	-.3201	
.550	-.0972			
.600			-.3576	
.700		-.3123		
.750	-.0114			
.900	-.0835			
.950	-.0788			

NSFC 567(1A3EF) TO 53/2 53/2 03 ORB. UPPER MING (R82U01)

MACH (5) = 1.480 ALPHA (5) = .000 Q = 9.4738 PTA = 22.008 RL = 6.5300 PSA = 6.3619

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2600 .4270 .6730 .6670

X/CA	Y/BA
.480	.0177
.150	-.0337
.033	.2136
.050	-.0500
.150	.1836
.250	-.0655
.400	-.2200
.550	-.3352
.600	-.3630
.700	-.3508
.750	-.0308
.800	-.1032
.850	-.0687

MACH (5) = 1.480 ALPHA (6) = 2.000 Q = 9.4738 PTA = 22.008 RL = 6.5300 PSA = 6.3619

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2600 .4270 .6730 .6670

X/CA	Y/BA
.480	.0054
.150	-.0508
.033	.2186
.050	-.1137
.150	.0887
.250	-.1386
.400	-.2704
.550	-.3945
.600	-.3836
.700	-.3628
.750	-.0631
.800	-.1164
.850	-.1088

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TABULATED SOURCE DATA, MSFC THT 567 (1A32F)

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MSFC 567(1A32F) TO S3/2 S3/2 03 ORB, UPPER WING (R82U01)

MACH (5) = 1.480 ALPHA (7) = 5.000 Q = 9.4739 PTA = 22.009 RL = 6.5300 PSA = 6.3619

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CH				
-.490	-.0575			
-.150	-.0718			
-.033		.1873		
.050		-.1920	-.0516	-.0327
.150		-.2137	-.2340	-.2916
.250	-.1926		-.3516	-.3929
.400		-.3370	-.4517	-.4676
.550	-.2948			
.600				-.4289
.700			-.4505	
.750		-.1018		
.900		-.1376		
.950	-.1073			

MACH (5) = 1.460 ALPHA (8) = 8.000 Q = 9.4739 PTA = 22.009 RL = 6.5300 PSA = 6.3619

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CH				
-.490	-.0687			
-.150	-.1171			
-.033		.0985		
.050		-.3262	-.2442	-.2184
.150		-.3107	-.3601	-.3903
.250	-.2139		-.4377	-.4662
.400		-.3671	-.5112	-.5193
.550	-.3344			
.600				-.4839
.700			-.4834	
.750		-.2005		
.900		-.1739		
.950	-.1175			

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MSFC 867(1A2EF) TO 53/2 53/2 03 088. UPPER WIND (R22J01)

MACH (8) = 1.480 ALPHA (9) = 10.000 0 = 9.1739 PTA = 22.008 RL = 8.5300 PSA = 8.3818

SECTION (1) 10001 TER WIND DEPENDENT VARIABLE CP

Y/BA	.2800	.4273	.6730	.8670
X/CA				
-.480	-.0763			
-.150	-.1331			
-.033		.0539		
.050	-.3037	-.2853	-.2082	
.150	-.3887	-.4078	-.4388	
.250	-.2283	-.4772	-.5006	
.400	-.3823	-.5386	-.5340	
.550	-.3678			
.600			-.5120	
.700			-.6076	
.750		-.2428		
.900		-.2012		
.950	-.1303			

MACH (8) = 1.880 ALPHA (1) = -8.000 0 = 10.260 PTA = 27.908 RL = 7.0588 PSA = 3.8678

SECTION (1) 10001 TER WIND DEPENDENT VARIABLE CP

Y/BA	.2800	.4270	.6730	.8670
X/CA				
-.480	.1882			
-.150	.0086			
-.033		.3026		
.050	.1704	.4003	.4633	
.150	.1143	.1809	.2145	
.250	.0184	.0438	.0609	
.400	-.0843	-.0787	-.0881	
.550	-.0438			
.600			-.1279	
.700			-.1400	
.750		.0518		
.900		.0548		
.950	.0531			

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 53/2 53/2 03 ORB. UPPER WING (R82U011)

MACH (6) = 1.960 ALPHA (2) = -5.000 0 = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.8678

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2900 .4270 .6730 .8670

X/CA			
-.490	.1188		
-.150	.0237		
-.033		.2523	
.050		.1080	.2895
.150		.0450	.0859
.250	-.0267		-.0203
.400		-.1082	-.1169
.550	-.0784		
.600			-.1679
.700		-.1782	
.750	-.0121		
.900	.0129		
.950	.0095		

MACH (6) = 1.960 ALPHA (3) = -2.000 0 = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.8678

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2900 .4270 .6730 .8670

X/CA			
-.490	.0782		
-.150	-.0209		
-.033		.2207	
.050		.0283	.2277
.150		-.0046	.0413
.250	-.0582		-.0702
.400		-.1454	-.1649
.550	-.1099		
.600			-.2028
.700		-.1843	
.750	-.0518		
.900	-.0340		
.950	-.0217		

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TABULATED SOURCE DATA, NSFC TMT 567 (IA32F)

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NSFC 567(IA32F) TO 53/2 53/2 03 ORG. UPPER MING (R82U01)

MACH (6) = 1.860 ALPHA (4) = .000 0 = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.8678

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2900 .4270 .6730 .8670

X/CA	Y/BA	CP
.480	.2900	.0944
.150	.4270	-.0530
.033	.6730	.2218
.050	.8670	-.0213
.150		.2018
.250		.3164
.400		-.0001
.500		.0428
.600		-.1009
.700		-.0885
.750		-.1758
.800		-.1864
.850		-.1831
.900		-.2208
.950		-.2047
		-.0791
		-.0612
		-.0368

MACH (6) = 1.860 ALPHA (5) = 2.000 0 = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.8678

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2900 .4270 .6730 .8670

X/CA	Y/BA	CP
.480	.2900	.0945
.150	.4270	-.0549
.033	.6730	.2531
.050	.8670	-.0578
.150		.1915
.250		.2694
.400		-.0148
.500		-.0008
.600		-.1348
.700		-.1203
.750		-.1907
.800		-.2264
.850		-.2051
.900		-.2312
.950		-.2228
		-.0681
		-.0623
		-.0472

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(RREVUC1)

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MSFC 567(1A32F) TO 53/2 53/2 03 098, UPPER WING

MACH (6) = 1.060 ALPHA (6) = 5.000 0 = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.8678

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CM

-.490	.0207		
-.150	-.0528		
-.033	.2478		
.050	-.1474	.1091	.1764
.150	-.1605	-.0737	-.0674
.250	-.1228	-.1778	-.1667
.400	-.2214	-.2585	-.2403
.550	-.1841		-.2469
.600			-.2527
.700			-.1372
.750			-.1241
.900			
.950	-.0467		

MACH (6) = 1.060 ALPHA (7) = 6.000 0 = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.8678

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CM

-.490	.1415		
-.150	-.0594		
-.033	.2420		
.050	-.2162	.0323	.1062
.150	-.2124	-.1201	-.1221
.250	-.1371	-.2097	-.2061
.400	-.2825	-.2813	-.2684
.550	-.2041		-.2568
.600			-.2750
.700			-.1725
.750			-.1641
.900			
.950	-.0373		

TABULATED SOURCE DATA, MSFC TWT 557 (1A32F)

MSFC 557(1A32F) 19 53/2 53/2 03 088. UPPER WING (R8202)

MACH (1) = .600 BETA (3) = -.4.000 0 = 4.3481 PTA = 22.007 RL = 4.9943 PSA = 17.251

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CM				
-.490	.2338			
-.150	-.0097			
-.033		.3157		
.050	-.1986	-.3049	-.4329	
.150	-.2824	-.5276	-.7372	
.250	-.2245	-.5688	-.7130	
.400		-.3323	-.5106	-.5278
.550	-.1131			
.600				-.1562
.700				-.0722
.750				-.0274
.900				.0269
.950	.0082			

MACH (1) = .600 BETA (4) = .000 0 = 4.3481 PTA = 22.007 RL = 4.9943 PSA = 17.251

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CM				
-.490	.4814			
-.150	-.0200			
-.033		.2743		
.050	-.1481	-.2383	-.3416	
.150	-.2490	-.4899	-.6508	
.250	-.2184	-.5356	-.6481	
.400		-.3485	-.5090	-.4864
.550	-.1787			
.600				-.1622
.700				-.1038
.750				-.0751
.900				-.0138
.950	-.0245			

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TABLATED SOURCE DATA, MSFC INT 587 (11A32F) (R82J02)

MACH (1) = .600 BETA (5) = 4.000 0 = 4.3481 PTA = 22.007 RL = 4.8843 FSA = 17.251

SECTION (1) ORBITER WIND DEPENDENT VARIABLE C°

Y/BN	.2000	.4270	.6730	.8670
X/CH				
-.490	.2798			
-.150	-.0234			
-.033		.2185		
.050		-.1030	-.2159	-.3510
.150		-.2183	-.4882	-.8458
.250	-.2135		-.5304	-.8352
.400		-.3885	-.5169	-.4788
.550	-.2187			-.1860
.600			-.1378	
.700		-.1281		
.750		-.0687		
.800				
.850	-.0889			

MACH (1) = .800 BETA (6) = 8.000 0 = 4.3481 PTA = 22.007 RL = 4.8843 FSA = 17.251

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BN	.2000	.4270	.6730	.8670
X/CH				
-.490	.1788			
-.150	-.0159			
-.033		.1822		
.050		-.0419	-.2067	-.3810
.150		-.1788	-.4127	-.8285
.250	-.2049		-.4833	-.6062
.400		-.3756	-.4987	-.4680
.550	-.2069			-.2048
.600			-.1747	
.700		-.1853		
.750		-.1888		
.800				
.850	-.1843			

TABULATED SOURCE DATA, MSFC THT 567 (1A32F)

(R82U02)

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MSFC 567(1A32F) T9 53/2 53/2 03 ORB. UPPER WING

MACH (1) = .600 BETA (7) = 10.000 Q = 4.3481 PTA = 22.007 RL = 4.8943 PSA = 17.251

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CM	.2990	.4270	.6730	.8870
.490	.2183			
.150	-.0045			
.033		.1455		
.050		-.0481	-.1917	-.3711
.150		-.1716	-.3773	-.5952
.250	-.1851		-.4638	-.5772
.400		-.3729	-.4781	-.4428
.550	-.2605			-.1978
.600			-.1720	
.700			-.1725	
.750			-.1168	
.900				
.950	-.1513			

MACH (2) = .900 BETA (2) = -10.000 Q = 7.3664 PTA = 22.004 RL = 6.5414 PSA = 13.022

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CM	.2990	.4270	.6730	.8870
.490	.6758			
.150	.0751			
.033		.4930		
.050		-.1240	-.1912	-.2334
.150		-.2571	-.5354	-.7630
.250	-.2254		-.7173	-.8684
.400		-.3818	-.6485	-.6761
.550	-.0363			-.2931
.600			-.0724	
.700			.0455	
.750			.0742	
.900				
.950	.0608			

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(R82U02)

MACH (2) = .900 BETA (2) = -8.000 Q = 7.3664 PTA = 22.004 PL = 6.5414 PSA = 13.022

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BM	.2660	.4270	.6730	.8670
X/CH				
-.490	.4798			
-.150	.0360			
-.033		.4500		
.350		-.1314	-.1877	-.2452
.150		-.2542	-.5203	-.7576
.250	-.2254		-.7032	-.8688
.400		-.3848	-.6043	-.6764
.550	-.0942			
.600			-.3372	
.700			-.1088	
.750		.0144		
.900		.0533		
.950	.0464			

MACH (2) = .900 BETA (3) = -4.000 Q = 7.3664 PTA = 22.004 PL = 6.5414 PSA = 13.022

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BM	.2660	.4270	.6730	.8670
X/CH				
-.490	.4136			
-.150	.0334			
-.033		.3848		
.350		-.1048	-.1688	-.2338
.150		-.2230	-.4775	-.7445
.250	-.2088		-.6287	-.8783
.400		-.3820	-.6045	-.7170
.550	-.2688			
.600			-.3504	
.700			-.1212	
.750		-.0336		
.900		.0401		
.950	.0287			

MACH (2) = .720 BETA (4) = .000 Q = 7.3664 PTA = 22.004 RL = 6.5414 PSA = 13.022
 (R82U02)

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2590	.4270	.6730	.8870
X/CM				
-.490	.3846			
-.150	.0163			
-.033		.3235		
.050		-.0590	-.1148	-.2237
.150		-.1698	-.3918	-.6851
.250	-.1678		-.5361	-.8534
.400		-.3578	-.6815	-.7640
.550	-.3366			-.4047
.600				
.700			-.2174	
.750		-.1366		
.900		-.0161		
.950	-.0311			

MACH (2) = .900 BETA (5) = 4.000 Q = 7.3664 PTA = 22.004 RL = 6.5414 PSA = 13.022

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2590	.4270	.6730	.8870
X/CM				
-.490	.1797			
-.150	.0257			
-.033		.2669		
.050		-.0020	-.0772	-.1918
.150		-.1155	-.3407	-.6292
.250	-.1271		-.4789	-.7869
.400		-.3520	-.6591	-.7323
.550	-.3604			-.4271
.600				
.700			-.3290	
.750		-.2406		
.900		-.0788		
.950	-.0508			

MACH (3) = 1.050 BETA (1) = -10.000 Q = 8.4447 PTA = 22.007 RL = 6.6571 PSA = 10.975
 MSFC 967(1A32F) T9 S3/2 S3/2 O3 CRB. UPPER WING (R82U02)

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.4270	.6730	.6870
X/CH				
-.490	.2715			
-.150	.0849			
-.033		.6056		
.050		.0036	-.0165	-.0402
.150		-.1044	-.3392	-.5025
.250	-.0769		-.5274	-.6544
.400		-.3632	-.5767	-.5653
.550	.0477			-.4463
.600				
.700			-.2165	
.750		.0485		
.900		.0836		
.950	.0872			

MACH (3) = 1.050 BETA (2) = -8.000 Q = 8.4447 PTA = 22.007 RL = 6.6571 PSA = 10.975

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	.2990	.4270	.6730	.6870
X/CH				
-.490	.2153			
-.150	.0639			
-.033		.5731		
.050		.0159	.0011	-.0407
.150		-.0669	-.3171	-.4937
.250	-.0663		-.4948	-.6711
.400		-.3227	-.6239	-.6163
.550	.0070			
.600				-.6119
.700			-.1873	
.750		-.0424		
.900		.0690		
.950	.0706			

TABLATED SOURCE DATA, MSFC THT 887 (1A32F)

(R82U02)

MSFC 967(1A32F) TO 93/2 93/2 03 ORB. UPPER WIND

MACH (3) = 1.050 BETA (3) = -.000 0 = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BA .8680 .4270 .8730 .8870

X/CA

-.400	.1508
-.150	.0536
-.033	.5021
.050	.0388
.150	-.0574
.250	-.0433
.400	-.2352
.550	-.0484
.600	-.8448
.700	-.8784
.750	-.1878
.800	-.8437
.850	-.8778

MACH (3) = 1.050 BETA (4) = .000 0 = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BA .8680 .4270 .8730 .8870

X/CA

-.400	.1288
-.150	.0846
-.033	.4181
.050	.0725
.150	-.0063
.250	.0818
.400	-.1850
.550	-.1082
.600	-.3888
.700	-.2228
.750	-.2482
.800	-.2482
.850	-.0818

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LABULATED SOURCE DATA, MSFC THT 567 (1A32F)

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MSFC 567(1A32F) T9 S3/2 S3/2 03 ORB. UPPER WING (R82U02)

MACH (3) = 1.050 BETA (5) = 4.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (110RBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CM	Y/BM	CP
.490	.2990	-.1223
.150	.4270	.0731
.033	.6730	.3279
.050	.8870	.0945
.150		.0470
.250		-.0164
.400		-.1628
.550		-.3879
.600		-.2628
.700		-.5208
.750		-.6054
.800		-.3765
.900		-.1223
.950		-.5338
		-.3591
		-.2616
		-.3082
		-.1488

MACH (3) = 1.050 BETA (6) = 8.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (110RBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CM	Y/BM	CP
.490	.2990	-.0809
.150	.4270	.1005
.033	.6730	.2920
.050	.8870	.1231
.150		.0359
.250		-.1312
.400		-.3777
.550		-.2215
.600		-.4974
.700		-.1172
.750		-.3567
.800		-.5905
.900		-.5226
.950		-.3763
		-.2851
		-.3448
		-.2697

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TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

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MSFC 567(1A32F) T8 53/2 53/2 03 008. UPPER WIND

MACH (3) = 1.050 BETA (7) = 10.000 Q = 8.4447 PTA = 22.007 PL = 8.9571 PSA = 10.975

SECTION (1) HORIZONTAL WIND DEPENDENT VARIABLE CP

Y/BM .2000 .4270 .6730 .8670

X/CH	Y/BM	CP
-.400	-.0798	
-.150	.1161	
-.033	.2713	
.050	.1348	.0538
.150	.0678	-.1041
.250	.0031	-.1574
.400	-.1080	-.3423
.550	-.1374	-.5706
.600		-.5063
.700		-.3548
.750		-.2861
.800		-.3231
.950		-.2677

MACH (4) = 1.250 BETA (1) = -10.000 Q = 9.2803 PTA = 22.005 PL = 8.9757 PSA = 8.9301

SECTION (1) HORIZONTAL WIND DEPENDENT VARIABLE CP

Y/BM .2000 .4270 .6730 .8670

X/CH	Y/BM	CP
-.400	.2910	
-.150	-.0018	
-.033	.4788	
.050	.0223	.1871
.150	-.0664	-.1300
.250	-.1185	-.3182
.400	-.3661	-.4813
.550	-.1308	-.5191
.600		-.5078
.700		-.4671
.750		.0585
.800		-.0791
.950		-.0668

TABLATED SOURCE DATA, MSFC TWT 567 (1A32F)

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(R82U02)

MSFC 567(1A32F) T9 S3/2 S3/2 03 ORB. UPPER WING

MACH (4) = 1.250 BETA (2) = -8.000 0 = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CM

-.490	.2437
-.150	-.0292
-.033	.4458
.050	-.0079
.150	-.0920
.250	-.1205
.400	-.3707
.550	-.1226
.600	-.5090
.700	-.4675
.750	.0477
.900	-.0858
.950	-.0633

MACH (4) = 1.250 BETA (3) = -4.000 0 = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CM

-.490	.1743
-.150	-.0448
-.033	.3646
.050	-.0240
.150	-.0980
.250	-.1487
.400	-.3470
.550	-.0535
.600	-.4922
.700	-.3822
.750	.0075
.900	-.1225
.950	-.1009

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TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 098. UPPER MING (R82U02)

MACH (4) = 1.250 BETA (4) = .000 Q = 9.2603 PTA = 22.065 PL = 6.9757 PSA = 6.5301

SECTION (1108)ITER MING DEPENDENT VARIABLE CP

Y/BA .2600 .4270 .6730 .8670

X/CA	Y/BA	CP
-.490	.2600	.1086
-.150	.4270	-.0613
-.033	.6730	.3477
.050	.8670	-.0124
.150		.0576
.250		-.1768
.400		-.3135
.550		-.4453
.700		-.5036
.850		-.3474
.900		-.0661
.950		-.2159
.990		-.1808

MACH (4) = 1.250 BETA (5) = 4.000 Q = 9.2603 PTA = 22.065 PL = 6.9757 PSA = 6.5301

SECTION (1108)ITER MING DEPENDENT VARIABLE CP

Y/BA .2600 .4270 .6730 .8670

X/CA	Y/BA	CP
-.490	.2600	-.1086
-.150	.4270	-.0594
-.033	.6730	.2483
.050	.8670	-.0048
.150		.0511
.250		-.1720
.400		-.2918
.550		-.4187
.700		-.4846
.850		-.4643
.900		-.1843
.950		-.1103
.990		-.2303
.990		-.1662

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TABULATED SOURCE DATA, MSFC THT 567 (11A32F)

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MSFC 567(11A32F) T9 S3/2 S3/2 03 ORB. UPPER WING (682002)

MACH (4) = 1.250 BETA (6) = 0.000 Q = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.530

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2990	.4270	.6730	.8870
X/CM				
	-.450	-.2455		
	-.150	-.0720		
	-.033		.2189	
	.050	.0364	.0330	-.0327
	.150	-.0322	-.1623	-.3085
	.250	-.0624	-.2690	-.4289
	.400	-.1908	-.3602	-.5010
	.550	-.0388		
	.600			-.4323
	.700		-.2077	
	.750	-.1234		
	.900	-.2552		
	.950	-.2235		

MACH (4) = 1.250 BETA (7) = 10.000 Q = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.530

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2990	.4270	.6730	.8870
X/CM				
	-.490	-.2705		
	-.150	-.0565		
	-.033		.2127	
	.050	.0413	.0009	-.0662
	.150	-.0189	-.1689	-.3205
	.250	-.0857	-.2678	-.4323
	.400	-.1920	-.3354	-.4873
	.550	-.0189		
	.600			-.3800
	.700		-.2259	
	.750	-.1209		
	.900	-.2804		
	.950	-.2210		

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MSFC 567(1A3EF) TO S3/2 S3/2 03 ORB, UPPER MIND (R82L02)

MACH (5) = 1.460 BETA (1) = -10.000 0 = 9.4716 PTA = 22.004 PL = 6.5271 PSA = 8.3837

SECTION (1) ORBITER MIND DEPENDENT VARIABLE CP

Y/BM	.2500	.4270	.6730	.8670
X/CM				
-.400	.2774			
-.150	.0513			
-.033		.4717		
.050		.0478	.2084	.3735
.150		-.0382	-.0668	-.0347
.250	-.0671		-.1760	-.2084
.400		-.2824	-.3324	-.3263
.500	-.2001			
.600				-.3538
.700			-.3255	
.750		.0653		
.900		.0126		
.950	.0224			

MACH (5) = 1.460 XETA (2) = -8.000 0 = 9.4716 PTA = 22.004 PL = 6.5271 PSA = 8.3837

SECTION (1) ORBITER MIND DEPENDENT VARIABLE CP

Y/BM	.2500	.4270	.6730	.8670
X/CM				
-.400	-.2420			
-.150	.0486			
-.033		.4381		
.050		.0448	.3840	.3684
.150		-.0423	-.0848	-.0324
.250	-.1801		-.1778	-.2000
.400		-.2758	-.3241	-.3225
.500	-.1826			
.600				-.3484
.700			-.3147	
.750		.0829		
.900		-.0008		
.950	.6158			

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

MACH (5) = 1.460 BETA (3) = -.000 Q = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 5.3637
 MSFC 567(1A32F) T9 53/2 53/2 03 OR8. UPPER WING (RSCV02)

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/B4	.2990	.4270	.6730	.8870
X/CM				
-.490	.1939			
-.150	-.0209			
-.033		.3461		
.050	.0030	.2335	.3002	
.150	-.0583	-.0458	-.0699	
.250	-.1301	-.2025	-.2307	
.400		-.2833	-.3355	-.3503
.550	-.1949			
.600				-.3760
.700		-.3381		
.750		.0066		
.900		-.0589		
.950	-.0434			

MACH (5) = 1.480 BETA (4) = .000 Q = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 5.3637

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/B4	.2990	.4270	.6730	.8870
X/CM				
-.490	.0177			
-.150	-.0337			
-.033		.2136		
.050	-.0300	.1635	.2371	
.150	-.0554	-.0856	-.1006	
.250	-.1342	-.2200	-.2516	
.400		-.2562	-.3352	-.3559
.550	-.1322			
.600				-.3830
.700				-.3508
.750		-.0396		
.900		-.1032		
.950	-.0587			

MSFC 567(1A32F) TO 63/2 63/2 03 ORB. UPPER WING (R82U02)

MACH (5) = 1.460 BETA (6) = 0.000 Q = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 6.3637

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BN	.2690	.4270	.6730	.6670
X/CY				
-.490	-.2108			
-.150	-.0620			
-.033	.2108			
.050	-.0291	.1308	.1308	
.150	-.0746	-.0601	-.1460	
.250	-.1068	-.2042	-.2714	
.400		-.2124	-.3111	-.3634
.550	-.0608			-.3449
.600				-.2835
.700				-.0487
.750				-.1250
.900				
.950				-.1203

MACH (5) = 1.460 BETA (6) = 0.000 Q = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 6.3637

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BN	.2690	.4270	.6730	.6670
X/CY				
-.490	-.3043			
-.150	-.0487			
-.033	.1768			
.050	-.0083	.0688	.0642	
.150	-.0487	-.0624	-.1503	
.250	-.1026	-.1803	-.2699	
.400		-.2067	-.2936	-.3507
.550	-.0854			-.3435
.600				-.2838
.700				-.0388
.750				-.1392
.900				
.950				-.1368

MSFC 987(1A32F) TO S3/2 S3/2 03 ORB. UPPER WIND

(R82U02)

MACH (8) = 1.980 BETA (2) = -.000 Q = 10.263 PTA = 27.987 PL = 7.0640 PSA = 3.8384

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BM .2980 .4270 .6730 .8870

X/CH	Y/BM	CP
-.450	.0318	
-.150	.0021	
-.033		.3422
.050	.0187	.3286 .4218
.150	-.0322	.0772 .1008
.250	-.0623	-.0654 -.0443
.400	-.1763	-.1817 -.1534
.550	-.1359	
.600		-.1344
.700		-.1810
.750	-.2631	
.800	-.0144	
.950	.0278	

MACH (8) = 1.980 BETA (3) = .000 Q = 10.263 PTA = 27.987 PL = 7.0640 PSA = 3.8384

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BM .2980 .4270 .6730 .8870

X/CH	Y/BM	CP
-.450	.0844	
-.150	-.0530	
-.033		.2218
.050	-.0213	.2018 .3104
.150	-.0488	-.0001 .0428
.250	-.0722	-.1089 -.0885
.400	-.1758	-.1884 -.1831
.550	-.1286	
.600		-.2208
.700		-.6047
.750	-.0781	
.800	-.5318	
.950	-.0388	

MACH (6) = 1.960 BETA (4) = 4.000 Q = 10.263 PTA = 27.997 RL = 7.0840 PSA = 3.8384
 (R82U02)

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CH				
.490	-.0134			
.150	-.0717			
.033		.1298		
.050	-.0036	.1662	2297	
.150	-.0323	-.0043	.2024	
.250	-.0637	-.1008	-.1045	
.400		-.1476	-.1843	
.550	-.1235			
.600			-.2139	
.700		-.1775		
.750	-.0660			
.900	-.0573			
.950	-.0516			

MACH (6) = 1.960 BETA (5) = 8.000 Q = 10.263 PTA = 27.997 RL = 7.0840 PSA = 3.8384

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CH				
.490	-.0762			
.150	-.0724			
.033		.1580		
.050	-.0041	.1618	.2002	
.150	-.0275	-.0053	-.0057	
.250	-.0672	-.0959	-.1089	
.400		-.1412	-.1711	-.1870
.550	-.1209			
.600			-.2181	
.700		-.1852		
.750	-.0301			
.900	-.0510			
.950	-.0643			

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MSFC 867(1A32F) T9 S3/2 S3/2 03 ORB. UPPER WING (R82U03: (24 APR 74)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XWRP = 2.5740 IN.
LREF = 5.3130 IN. YWRP = .0000 IN.
BREF = 5.3130 IN. ZWRP = 1.3320 IN.
SCALE = .0040 SCALE

PARAMETRIC DATA

ALPHA = 5.000 CONF10 = 90.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .500

MACH (1) = .600 BETA (1) = -.000 Q = 4.3330 PTA = 22.007 RL = 4.9867 PSA = 17.270

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2980 .4270 .6730 .8870

X/CM

-.480 .2754
-.150 -.0809
-.033 .0817
.050 -.5147 -.8317 -1.1881
.150 -.8120 -.9008 -1.2833
.250 -.3388 -.8145 -1.0982
.400 -.3888 -.6010 -.6048
.550 -.1810
.600 -.2563
.700 -.1018
.750 -.0485
.900 .0170
.950 .0118

MACH (1) = .600 BETA (2) = .000 Q = 4.3330 PTA = 22.007 RL = 4.9867 PSA = 17.270

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2980 .4270 .6730 .8870

X/CM

-.480 .2478
-.150 -.0838
-.033 .0820
.050 -.4358 -.7468 -1.1010
.150 -.4283 -.8394 -1.1847
.250 -.3328 -.8007 -1.0270
.400 -.4208 -.6439 -.6528
.550 -.2184
.600
.700 -.1303
.750 -.0885
.900 -.0158
.950 -.0245

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 ORB. UPPER WING (R82003)

MACH (1) = .600 BETA (3) = 4.000 Q = 4.3330 PTA = 22.007 RL = 4.9867 PSA = 17.270

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA	.2990	.4270	.6730	.8870
X/CM				
	-.490	.1983		
	-.150	-.0857		
	-.033		.0835	
	.050	-.3303	-.6605	-1.0245
	.150	-.3941	-.7776	-1.1133
	.250	-.3112	-.7524	-.9636
	.400	-.4391	-.6289	-.5746
	.550	-.2445		-.2806
	.600		-.1511	
	.700		-.1395	
	.750		-.0968	
	.900			
	.950	-.0632		

MACH (2) = .900 BETA (1) = -4.000 Q = 7.3630 PTA = 22.008 RL = 6.2700 PSA = 13.033

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA	.2990	.4270	.6730	.8870
X/CM				
	-.490	.4295		
	-.150	-.0221		
	-.033		.2465	
	.050	-.3795	-.5622	-.6712
	.150	-.4591	-.8264	-.8554
	.250	-.3608	-.8158	-.5224
	.400	-.5587	-.7568	-.5519
	.550	-.1891		-.5720
	.600		-.3687	
	.700			
	.750	-.0938		
	.900	-.0095		
	.950	.0141		

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TABLATED SOURCE DATA, NSFC TMT 967 (1A32F)

NSFC 967(1A32F) TO 93/2 93/2 03 ORB. UPPER MING (R22U03)

MACH (2) = .900 BETA (2) = .000 Q = 7.3630 P7A = 22.008 RL = 6.2700 PSA = 13.033

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2690 .4270 .6730 .8870

X/CA				
.400	.1639			
.150	-.0304			
.033		.1911		
.050		-.2653	-.4500	-.6141
.150		-.3482	-.7165	-.9557
.250	-.2803		-.8370	-.5292
.400		-.4888	-.7898	-.5118
.550	-.3783			
.600			-.5463	
.700			-.3308	
.750		-.1488		
.900		-.0430		
.950	-.0249			

MACH (2) = .900 BETA (3) = 4.000 Q = 7.3630 P7A = 22.008 RL = 6.2700 PSA = 13.033

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2690 .4270 .6730 .8870

X/CA				
.400	.1107			
.150	-.0278			
.033		.1900		
.050		-.2058	-.4258	-.6358
.150		-.2544	-.6736	-.8987
.250	-.2473		-.7883	-.8050
.400		-.4718	-.7742	-.5512
.550	-.4256			
.600			-.5811	
.700			-.2808	
.750		-.1804		
.900		-.0838		
.950	-.0801			

MSFC 567(1A32F) TO 53/2 53/2 03 ORB. UPPER MING (R82U03)

MACH (3) = 1.050 BETA (1) = -.400 Q = 0 4300 PTA = 22.007 RL = 6.5700 FSA = 11.008

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .6670

X/CM

-.490	.1101
-.150	.0003
-.033	.3315
.050	-.2021
.150	-.2741
.250	-.1759
.400	-.4831
.550	-.1113
.600	
.700	
.750	-.1223
.900	-.0466
.950	.0684

-.5129

-.3627

MACH (3) = 1.050 BETA (2) = .000 Q = 0 4300 PTA = 22.007 RL = 6.5700 FSA = 11.008

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .6670

X/CM

-.490	-.2282
-.150	.0384
-.033	.2263
.050	-.1635
.150	-.2166
.250	-.1450
.400	-.3014
.550	-.1908
.600	
.700	
.750	-.2299
.900	-.1219
.950	.0151

-.4066

-.7222

-.6736

-.5293

-.5508

-.3045

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MFSC 867(1.25EF) TO 83/2 83/2 03 (CB, UPPER WIND) (R82L03)

MACH (3) = 1.000 BETA (3) = 4.000 Q = 0.4300 PTA = 82.007 RL = 0.6700 PSA = 11.000

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BM .8000 .4278 .6730 .6870

X/CM	Y/BM	Z/CM	CP
-.480	-.8300		
-.150	.0322		
-.033	.1874		
.050	-.0748	-.8240	-.4054
.150	-.1271	-.4601	-.7286
.250	-.0834	-.5337	-.7390
.400		-.2330	-.5884
.550	-.1868		-.6178
.600			-.6201
.700		-.3447	
.750		-.3274	
.800		-.1907	
.850	-.1000		

MACH (4) = 1.250 BETA (1) = -4.000 Q = 0.2843 PTA = 22.007 RL = 0.6867 PSA = 8.5180

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BM .2000 .4278 .6730 .6870

X/CM	Y/BM	Z/CM	CP
-.480	.2000		
-.150	-.6038		
-.033	.3873		
.050	-.2068	-.2119	-.1777
.150	-.2813	-.3868	-.4814
.250	-.2016	-.5110	-.5098
.400		-.4711	-.6383
.550	-.2878		-.6075
.600			-.6468
.700		-.0531	
.750		-.1828	
.800			
.850	-.1807		

TABLULATED SOURCE DATA, MSFC TWT 567 (1A32F)

(R82U03)

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MSFC 567(1A32F) 19 53/2 53/2 03 ORB. UPPER WING

MACH (4) = 1.250 BETA (2) = .000 0 = 9.2843 PTA = 22.007 RL = 6.6867 PSA = 8.5180

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CH	Y/BW	CP
.490	.2990	-.0178
.150	.4270	-.1188
.033	.6730	.1714
.050	.8870	-.2523
.150		-.4013
.250		-.5061
.400		-.5984
.550		-.6267
.600		
.700		-.9417
.750		-.1376
.900		-.2288
.950		-.2106

MACH (4) = 1.250 BETA (3) = 4.000 0 = 9.2843 PTA = 22.007 RL = 6.6867 PSA = 8.5180

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CH	Y/BW	CP
.490	.2990	-.2629
.150	.4270	-.1256
.033	.6730	.0941
.050	.8870	-.1828
.150		-.3720
.250		-.4829
.400		-.5612
.550		-.6337
.600		
.700		-.4837
.750		-.1799
.900		-.2824
.950		-.2612

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MSFC 567(1A32F) TO 53/2 53/2 03 ORB. UPPER WING (R82U03)

MACH (5) = 1.460 BETA (1) = -4.000 Q = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 6.3457

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2000 .4270 .6730 .8670

X/CM

-.468	.2175
-.158	-.0453
-.033	.3605
.059	-.1477
.156	-.1856
.250	-.1848
.400	-.3578
.550	-.2878
.600	
.700	-.4105
.750	-.0493
.800	-.1023
.900	-.0486

MACH (5) = 1.460 BETA (2) = .000 Q = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 6.3457

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2000 .4270 .6730 .8670

X/CM

-.468	-.0575
-.158	-.0718
-.033	.1873
.059	-.1050
.156	-.2137
.250	-.1828
.400	-.3370
.550	-.2546
.600	
.700	-.4289
.750	-.1018
.800	-.1378
.900	-.1073

MSFC 567(1A32F) T9 53/2 53/2 03 ORB. UPPER WING (R82-073)

MACH (5) = 1.480 BETA (3) = 4.000 Q = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 8.3457

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2890 .4270 .6730 .8870

X/CH			
.490	-.2261		
.150	-.0949		
.033	.1578		
.050	-.1940	-.1336	-.0895
.150	-.1671	-.2450	-.3088
.250	-.1517	-.3463	-.4065
.400	-.3116	-.4370	-.4743
.550	-.1648		
.600			-.4345
.700		-.4261	
.750	-.1234		
.900	-.1601		
.950	-.1313		

MACH (6) = 1.860 BETA (1) = -4.000 Q = 10.259 PTA = 28.006 RL = 7.0800 PSA = 3.8317

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2990 .4270 .6730 .8870

X/CH			
.490	.0009		
.150	-.0424		
.033	.3996		
.050	-.0686	.2162	.2763
.150	-.1098	-.0077	-.0099
.250	-.1001	-.1308	-.1255
.400	-.2224	-.2282	-.2093
.550	-.1797		
.600			-.2326
.700		-.2339	
.750	-.2092		
.900	-.1127		
.950	.0126		

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TABULATED SOURCE DATA, MSFC TMT 587 (11A32F)

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MSFC 587(11A32F) TO 53/2 53/2 03 ORB. UPPER WING (R82U03)

MACH (6) = 1.980 BETA (2) = .000 0 = 10.259 PTA = 28.008 RL = 7.0800 PSA = 3.8317

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2800 .4270 .8730 .8870

X/CH	CP
.480	.0807
.150	-.0828
-.033	.8478
.050	-.1474
.150	.1691
.250	-.0737
.400	-.1778
.550	-.2585
.600	-.1843
.700	-.2527
.750	-.1372
.800	-.1241
.850	-.0487

MACH (6) = 1.980 BETA (3) = .000 0 = 10.259 PTA = 28.008 RL = 7.0800 PSA = 3.8317

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2800 .4270 .8730 .8870

X/CH	CP
.480	-.0273
.150	-.1037
-.033	.1471
.050	-.1387
.150	-.1244
.250	-.0831
.400	-.2041
.550	-.1811
.600	-.2382
.700	-.8388
.750	-.1281
.800	-.1144
.850	-.0088

MSFC 567(11A32F) T9 53/2 53/2 03 ORG. UPPER WING (P82224) (24 APR 74)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN. ALPHA = -5.000 ZMFLD = 50.000
 LREF = 5.3130 IN. YMRP = .0000 IN. DELTAZ = .000 RUDER = .000
 BREF = 5.3130 IN. ZMRP = 1.3320 IN. X-SRB = .000 DRG-INC = .500
 SCALE = .0040 SCALE

PARAMETRIC DATA

MACH (1) = .600 BETA (1) = -4.000 Q = 4.3053 PTA = 22.012 RL = 4.5733 PSA = 17.329
 MACH (2) = .600 BETA (2) = .000 Q = 4.3053 PTA = 22.012 RL = 4.5733 PSA = 17.329

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	X/CM
.2990	.4270 .6730 .6870
.490	.2668
.150	.0529
.033	.3528
.050	.0333 .0789 .0813
.150	-.1008 -.2259 -.3432
.250	-.1182 -.3528 -.4470
.400	-.2398 -.3829 -.3656
.550	-.0783
.600	-.1635
.700	-.0825
.750	-.0296
.900	.0368
.950	-.0113

SECTION (2) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	X/CM
.2990	.4270 .6730 .6870
.490	.5010
.150	.0478
.033	.2988
.050	.0707 .1191 .0859
.150	-.0664 -.1708 -.2917
.250	-.1064 -.3135 -.3942
.400	-.2525 -.3759 -.3443
.550	-.1323
.600	-.1652
.700	-.0895
.750	-.0581
.900	-.0209
.950	-.0325

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TABLATER SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 088. UPPER WING (R82L004)

MACH (1) = .800 BETA (3) = 4.000 0 = 4.3053 PTA = 22.012 PL = 4.8733 PSA = 17.309

SECTION (1) ORBITER L:IM0 DEPENDENT VARIABLE CP

Y/BW .2690 .4270 .6730 .8670

X/CH	Y/BW	CP
.400	.3972	
.150	.0211	
.033	.2369	
.050	.0672	.0829 .0479
.150	-.0722	-.1933 -.3125
.250	-.1302	-.3360 -.4172
.400	-.2694	-.4167 -.5742
.550	-.1929	
.600		-.2045
.700		-.1479
.750		-.1312
.900		-.0860
.950		-.0699

MACH (2) = .900 BETA (1) = -4.000 0 = 7.3613 PTA = 22.005 PL = 6.2700 PSA = 13.033

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW .2690 .4270 .6730 .8670

X/CH	Y/BW	CP
.400	.6393	
.150	.0821	
.033	.4296	
.050	.1137	.1593 .1374
.150	-.0306	-.1121 -.3463
.250	-.0666	-.3449 -.5835
.400	-.2473	-.5443 -.8087
.550	-.1373	
.600		-.3111
.700		-.0636
.750		-.0496
.900		-.0063
.950		-.0144

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

MSFC 567(1A32F) T9 53/2 53/2 03 DRB. UPPER WING (R82U04)

MACH (2) = .900 BETA (2) = .000 Q = 7.3613 PTA = 22.005 RL = 6.2700 PSA = 13.033

SECTION (1) ORBITTER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CM	Y/BM	CP
-.490	.2990	.4938
-.150	.4270	.0789
-.033	.6730	.3526
.050	.8870	.1339
.150		.1725
.250		.1124
.400		-.0437
.550		-.2826
.600		-.5215
.700		-.6990
.750		-.4607
.900		-.1859
.950		-.1437
		-.0537
		-.0569

MACH (2) = .900 BETA (3) = 4.000 Q = 7.3613 PTA = 22.005 RL = 6.2700 PSA = 13.033

SECTION (1) ORBITTER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CM	Y/BM	CP
-.490	.2990	.2608
-.150	.4270	.0627
-.033	.6730	.2776
.050	.8870	.1460
.150		.1692
.250		.0274
.400		-.0930
.550		-.2720
.600		-.5334
.700		-.7184
.750		-.5118
.900		-.2615
.950		-.4233
		-.2682
		-.1265
		-.1363

NSFC 567(1A32F) TO 53/2 53/2 03 ORB. UPPER WING (REBUON)

MACH (3) = 1.050 BETA (1) = -4.000 Q = 8.4020 PTA = 22.003 RL = 6.5633 PSA = 11.064

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2900	.4270	.6730	.8870
X/CM				
-.400	.2445			
-.150	.1159			
-.033		.5363		
.050		.2640	.3288	.3257
.150		.1352	.0392	-.1073
.250	.0667		-.1230	-.3245
.400		-.0402	-.2631	-.4766
.550	.0137			
.600				-.4204
.700			-.2276	
.750		-.1021		
.900		-.0747		
.950	-.0626			

MACH (3) = 1.050 BETA (2) = .000 Q = 8.4020 PTA = 22.003 RL = 6.5633 PSA = 11.064

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2900	.4270	.6730	.8870
X/CM				
-.400	.2694			
-.150	.1443			
-.033		.4737		
.050		.2722	.3195	.3126
.150		.1644	.0720	-.0692
.250	.1236		-.0774	-.2631
.400		-.0356	-.2651	-.4505
.550	-.0662			
.600				-.4095
.700			-.2776	
.750		-.1643		
.900		-.1993		
.950	-.0686			

TABULATED SOURCE DATA, MSFC THT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 O3 ORB, UPPER WING (R82U04)

MACH (3) = 1.050 BETA (3) = 4.000 Q = 6.4020 PTA = 22.003 RL = 6.5633 PSA = 11.054

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BN .2990 .4270 .6730 .6870

X/CM				
-.490	.1056			
-.150	.1355			
-.033		.3870		
.050	.2676	.3009	.2637	
.150	.1771	.0788	-.0705	
.250	.1318	-.0651	-.2797	
.400		-.0447	-.4524	
.550	-.1064			
.600			-.4242	
.700		-.3055		
.750		-.2289		
.900		-.2248		
.950	-.1643			

MACH (4) = 1.250 BETA (1) = -4.000 Q = 9.2790 PTA = 22.005 RL = 6.6800 PSA = 8.5363

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BN .2990 .4270 .6730 .6870

X/CM				
-.490	.2569			
-.150	.0007			
-.033		.3488		
.050	.1224	.3381	.4148	
.150	.0119	.0371	-.0044	
.250	-.0823	-.1480	-.2100	
.400		-.2578	-.3298	-.3780
.550	.0374			
.600			-.4233	
.700		-.0432		
.750		.0206		
.900		-.0922		
.950	-.0431			

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MSFC 567(1A32F) TO S3/2 S3/2 03 ORB, UPPER WING (R82U04)

MACH (4) = 1.250 BETA (2) = .000 Q = 9.2700 PTA = 22.005 PL = 6.6900 PSA = 6.5383

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2900 .4270 .6730 .8870

X/CH

-.480	.2037		
-.150	-.0237		
-.033		.2920	
.050	.1802	.8718	.3143
.180	.0181	.0837	-.0880
.850	-.0428	-.1808	-.8740
.480		-.1243	-.2882
.550	.0232		
.600			-.3452
.700		-.0858	
.750	-.0407		
.800	-.1481		
.950	-.0852		

MACH (4) = 1.250 BETA (3) = .000 Q = 9.2700 PTA = 22.005 PL = 6.6900 PSA = 6.5383

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2900 .4270 .6730 .8870

X/CH

-.480	-.0257		
-.150	-.0488		
-.033		.8108	
.050	.1116	.8488	.8848
.180	.0803	.0373	-.0378
.850	-.0448	-.1173	-.3088
.480		-.6716	-.2821
.550	.0025		
.600			-.2488
.700		-.1227	
.750	-.0324		
.800	-.1702		
.950	-.1081		

TABLATED SOURCE DATA, MSFC TWT 567 (1A32F)

(R82U04)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 ORB. UPPER WING

MACH (5) = 1.460 BETA (1) = -4.000 Q = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 6.3713

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CM	Y/BM	Z/CM	CP
-.480	.1574		
-.150	.0553		
-.033	.3322		
.050	.1362	.3711	.4534
.150	.0411	.1040	.0913
.250	-.0511	-.0576	-.0923
.400		-.1939	-.2429
.550	-.0422		-.3035
.600		-.2674	
.700		.0511	
.750		-.0074	
.900			
.950	-.0092		

MACH (5) = 1.460 BETA (2) = .000 Q = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 6.3713

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/CM	Y/BM	Z/CM	CP
-.480	.1692		
-.150	.0408		
-.033	.2472		
.050	.0972	.3044	.3863
.150	.0143	.0658	.0661
.250	-.0820	-.0812	-.1081
.400		-.1731	-.2531
.550	-.0493		-.3110
.600		-.2269	
.700		.3229	
.750		-.0555	
.900			
.950	-.0411		

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TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MACH (5) = 1.460 BETA (3) = 4.000 Q = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 8.3713
 MSFC 567(1A32F: T8 53/2 53/2 03 088. UPPER WING) (R82404)

DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

Y/BM .2800 .4270 .6730 .8870

X/CH	CP
-.400	-.0741
-.150	-.0094
-.033	.1530
.020	.0829
.150	.0135
.250	-.0878
.400	-.1698
.550	-.0253
.600	-.3033
.700	-.1024
.750	.0033
.900	-.0951
.950	-.0912

MACH (6) = 1.860 BETA (1) = -4.060 Q = 10.282 PTA = 28.008 RL = 7.0933 PSA = 3.0560

DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

Y/BM .2800 .4270 .6730 .8870

X/CH	CP
-.400	.0578
-.150	.0284
-.033	.3882
.020	.1706
.150	.0671
.250	-.0157
.400	-.1172
.550	-.0783
.600	-.1466
.700	-.1080
.750	.0077
.900	.0470
.950	.0762

MSFC 567(1A32F) T9 53/2 53/2 03 ORB. UPPER WING (R82UD4)

MACH (6) = 1.960 BETA (2) = .000 Q = 10.282 PTA = 28.008 RL = 7.0933 PSA = 3.8560

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .290 .4270 .6730 .8870

X/CM

-.490	.1198
-.150	.0237
-.033	.2323
.050	.1060
.150	.0450
.250	-.0267
.400	-.1062
.550	-.0764
.600	
.700	-.1792
.750	-.0121
.900	.0129
.950	.0095
	-.1679

MACH (6) = 1.960 BETA (3) = .000 Q = 10.282 PTA = 28.008 RL = 7.0933 PSA = 3.8560

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .29 .4270 .6730 .8870

X/CM

-.490	.0658
-.150	-.0024
-.033	.1320
.050	.0840
.150	.0493
.250	-.0188
.400	-.0987
.550	-.0930
.600	
.700	-.1712
.750	-.0028
.900	-.0031
.950	-.0111
	-.1620

NSFC 567(1A32F) TO 53/2 53/2 03 068. LOWER MING (R82L01) (24 APR 74)

REFERENCE DATA

SREF = 8.1880 50. IN. XREF = 2.5480 IN.
 LREF = 5.3130 IN. YREF = .0000 IN.
 BREF = 5.3130 IN. ZREF = 1.3320 IN.
 SCALE = .0010 SCALE

PARAMETRIC DATA

BETA = .000 CONF10 = 80.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500

MACH (1) = .800 ALPHA (1) = -10.000 Q = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BM .2880 .4270 .6730 .8870

X/CM

-.438 .4737
 -.150 -.9273
 -.033 .1872
 .050 -.2382 -.0012 9.0480
 .150 -.2278 -.3891 -7.138
 .250 -.1178 -.2905 -.6289
 .400 -.2074 -.2580 -.4318
 .550 -.2580
 .600 -.2580
 .700 -.2823
 .750 -.2823
 .900 -.0845
 .950 9.8880

MACH (1) = .800 ALPHA (2) = -8.000 Q = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BM .2880 .4270 .6730 .8870

X/CM

-.480 .5085
 -.150 -.0108
 -.033 .2485
 .050 -.1803 -.0850 9.8880
 .150 -.1487 -.2786 -4.222
 .250 -.0881 -.2404 -.2852
 .400 -.1703 -.2218 -.2428
 .550 -.2348
 .600 -.2348
 .700 -.2838
 .750 -.2783
 .900 -.0758
 .950 9.8880

TABLATED SOURCE DATA, MSFC TWT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 ORB. LOWER WING (R82L01)

MACH (1) = .600 ALPHA (3) = -5.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2890 .4270 .6730 .8870

X/CM	
-.490	.5010
-.150	.0093
-.033	.2968
.050	-.2997 9.9590
.150	-.0807 -.1590 -.2658
.250	-.0370 -.1538 -.1964
.400	-.1109 -.1635 -.1875
.550	-.1902
.600	
.700	-.1734
.750	-.2490
.900	-.0601
.950	9.9990

MACH (1) = .660 ALPHA (4) = -2.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2890 .4270 .6730 .8870

X/CM	
-.490	.4747
-.150	.0227
-.033	.2914
.050	.0477 -.0180 9.9990
.150	-.0057 -.0451 -.1505
.250	.0025 -.0873 -.1189
.400	-.0757 -.1048 -.1429
.550	-.1876
.600	
.700	-.1666
.750	-.2348
.900	-.0600
.950	9.9990

TABLULATED SOURCE DATA, MSFC TMT 987 (1A32F)

MSFC 587(1A32F) TO 53/2 53/2 03 ORB. LOWER WING (R82L011)

MACH (1) = .800 ALPHA (5) = .000 0 = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

Y/BW	.2000	.4270	.6730	.8870
X/CA				
-.480	.4814			
-.150	.0348			
-.033		.8743		
.050		.1058	.1217	9.9090
.150		.0402	.0312	-.0052
.250	.0242		-.0182	-.0707
.400		-.0487	-.0732	-.1178
.550	-.1885			
.600				-.1638
.700			-.2232	
.750		-.2232		
.800		-.0601		
.950	9.9890			

MACH (1) = .800 ALPHA (6) = 2.000 0 = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

Y/BW	.2000	.4270	.6730	.8870
X/CA				
-.480	.4573			
-.150	.0516			
-.033		.2157		
.050		.1658	.2495	9.9090
.150		.0908	.1102	.0188
.250	.0287		.0367	-.0183
.400		-.0210	-.0389	-.0850
.550	-.1388			
.600				-.1548
.700			-.2126	
.750		-.2181		
.800		-.0568		
.950	9.9890			

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

MSFC 567(1A32F) TO S3/2 S3/2 03 069. LOWER WING (862L01)

MACH (1) = .800 ALPHA (7) = 5.000 Q = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BH .2990 .4270 .6730 .8670

X/CM	CP
-.490	.3478
-.150	.0722
-.033	.0558
.050	.2439
.150	.1587
.250	.0901
.400	.0158
.500	-.1248
.600	
.700	-.1949
.750	-.2034
.900	-.0537
.950	9.9990

MACH (1) = .500 ALPHA (8) = 6.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BH .2990 .4270 .6730 .8670

X/CM	CP
-.490	.1384
-.150	.1012
-.033	-.1828
.050	.3091
.150	.2168
.250	.1285
.400	.0478
.500	-.0568
.600	
.700	-.1935
.750	-.0413
.900	
.950	9.9990

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TABLATED SOURCE DATA, MSFC TMT 907 (11A12F)

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MSFC 56711A32F, T9 53/2 53/2 03 09B, LOWER NING

(R62.01)

MACH (1) = .800 ALPHA (0) = 10.000 Q = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) ORBITER NING DEPENDENT VARIABLE CP

Y/BA .2800 .4270 .6730 .8870

X/CA	Y/BA	CP
-.450	.2800	-.0080
-.150	.4270	-.1084
-.033	.6730	-.3218
.050	.8870	.3258
.150		.3400
.250		.2329
.400		.0588
.550		-.0928
.600		-.1305
.700		-.1788
.800		-.0352
.950		9.8880

MACH (2) = .900 ALPHA (1) = -10.000 Q = 7.3809 PTA = 22.007 RL = 5.2779 PSA = 12.985

SECTION (1) ORBITER NING DEPENDENT VARIABLE CP

Y/BA .2800 .4270 .6730 .8870

X/CA	Y/BA	CP
-.450	.2800	.5510
-.150	.4270	.0419
-.033	.6730	.2882
.050	.8870	-.1208
.150		-.1338
.250		-.0238
.400		-.1338
.550		-.1867
.600		-.2084
.700		-.2425
.750		-.8017
.900		-.1112
.950		9.8880

DATE 03 SEP 75

TABLATED SOURCE DATA, MSFC TWT 567 (1A32F)

TIME 003

MACH (2) = .900 ALPHA (2) = -8.000 Q = 7.3509 PTA = 22.007 RL = 6.2773 PSA = 2.302

MSFC 567(1A32F) TO 53/2 53/2 03 098. LOWER WING

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/DN				
-.490	-.5678			
-.150	-.0456			
-.033		.3243		
.050	-.0497	-.6148	9.8990	
.150	-.0723	-.2332	-.6374	
.250	.0045	-.1822	-.3995	
.400		-.0922	-.1438	-.2571
.550	-.1546			
.600				-.3516
.702				-.5294
.750				-.5462
.900				-.0910
.950	9.9990			

MACH (2) = .900 ALPHA (3) = -5.000 Q = 7.3509 PTA = 22.007 RL = 6.2773 PSA = 2.302

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2990 .4270 .6730 .8870

X/DN				
-.490	-.4938			
-.150	-.0541			
-.033		.3528		
.050	.0353	-.2160	8.6990	
.150	-.0218	-.1253	-.3044	
.250	.0421	-.0987	-.2653	
.400		-.2459	-.0951	-.2493
.550	-.1292			
.600				-.3357
.700				-.4908
.750				-.4625
.900				-.0828
.950	9.9990			

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TABLATED SOURCE DATA, NSFC TMT 567 (1A32F)

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NSFC 57(1A32F) T9 53/2 53/2 03 01B. (OVER 1/2)

MACH (2) = .900 ALPHA (4) = -2.000 Q = 7.3009 PTA = 22.007 RL = 6.2778 PSA = 12.865

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA	.8000	.4870	.6730	.6670
X/CH	.4380	.4357		
	-.15	.0718		
	-.033		.3383	
	.050		.1365	.0363
	.150		.0801	.0198
	.250	.6354	.0076	-.1296
	.400		.0019	-.0320
	.550	-.1008		-.2056
	.610			-.3743
	.700		-.2730	
	.750		-.4149	
	.800		-.0786	
	.950	9.0660		

MACH (2) = .900 ALPHA (5) = .000 Q = 7.3009 PTA = 22.007 RL = 6.2778 PSA = 12.865

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA	.8000	.4870	.6730	.6670
X/CH	-.4380	.3048		
	-.150	.0734		
	-.033		.3235	
	.050		.1853	.1798
	.150		.1146	.1034
	.250	.1007	.0910	-.0912
	.400		.0321	-.0130
	.550	-.0944		-.1943
	.600			-.3573
	.700		-.3060	
	.750		-.4065	
	.800		-.0606	
	.950	9.0660		

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TABULATED SOURCE DATA, MSFC TNT 667 (1A3EF)

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MSFC 667(1A3EF) TO 93/2 93/2 03 ORB, LOWER HING (R62L01)

MACH (2) = .900 ALPHA (6) = 2.000 Q = 7.3609 PTA = 22.007 RL = 6.2778 PSA = 12.926

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2900 .4870 .6730 .8670

X/CH

-.480	.3278		
-.150	.0918		
-.033	.2681		
.050	.2505	.3010	9.9060
.150	.1893	.1788	.0341
.250	.1344	.1121	-.0252
.400	.0563	.0273	-.1432
.550	-.0777		
.600			-.3134
.700		-.4072	
.750	-.4142		
.900	-.0740		
.950	9.9060		

MACH (2) = .900 ALPHA (7) = 5.000 Q = 7.3609 PTA = 22.007 RL = 6.2778 PSA = 12.926

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2900 .4870 .6730 .8670

X/CH

-.498	.1539		
-.150	.1188		
-.033	.1911		
.050	.3135	.4805	9.9060
.150	.2172	.2045	.1436
.250	.1667	.1788	.0604
.400	.0872	.0698	-.0668
.550	-.0598		
.600			-.2448
.700		-.3590	
.750	-.4051		
.900	-.0605		
.950	9.9060		

NSFC 567(1A32F) TO 53/2 53/2 03 ORB. LOWER WING (R62L01)

MACH (2) = .900 ALPHA (0) = 8.000 Q = 7.3809 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA	.2500	.4270	.6730	.8870
X/CA				
-.450	-.0343			
-.150	.1361			
-.033		.0721		
.050		.3536	.5206	9.9000
.150		.2504	.3503	.2484
.250	.1762		.2436	.1444
.400		.1011	.1170	.0048
.550	-.0448			
.600				-.1671
.700			-.2806	
.750		-.3348		
.900		-.0725		
.950	9.9000			

MACH (2) = .900 ALPHA (0) = 10.000 Q = 7.3809 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA	.2500	.4270	.6730	.8870
X/CA				
-.450	-.1178			
-.150	.1386			
-.033		.0258		
.050		.3428	.5780	9.9000
.150		.2556	.3006	.2508
.250	.1800		.2735	.1805
.400		.1004	.1376	.0510
.550	-.0558			
.600				-.1251
.700			-.2786	
.750		-.3135		
.900		-.0873		
.950	9.9000			

MSFC 06711A32F) TO 53/2 53/2 03 058. LOWER WING (R02L01)

MACH (3) = 1.050 ALPHA (1) = -10.000 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.862

SECTION (1) ORBITTER WING DEPENDENT VARIABLE CP

Y/BM .2650 .4270 .6730 .8670

X/CM	Y/BM	CP
-.490	.1477	
-.150	.1078	
-.033	.4183	
.050	.0251	-.7268 9.8690
.150	.0050	-.1481 -.6042
.250	.1102	-.1503 -.5685
.400	-.0283	-.0760 -.5464
.550	-.1166	
.600		-.1662
.700		-.2763
.750	-.4141	
.800	-.2242	
.950	9.8690	

MACH (3) = 1.050 ALPHA (2) = -8.003 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.862

SECTION (1) ORBITTER WING DEPENDENT VARIABLE CP

Y/BM .2650 .4270 .6730 .8670

X/CM	Y/BM	CP
-.490	.3164	
-.150	.1034	
-.033	.4565	
.050	.0773	-.4735 9.8690
.150	.0632	-.1086 -.5394
.250	.1362	-.1006 -.3950
.400	.0167	.0577 .0263
.550	-.0421	
.600		-.1534
.700		-.2677
.750	-.4126	
.800	-.1721	
.950	9.8690	

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MSFC 567(1A32F) TO S3/2 S3/2 O3 ORB. LOWER MING (R82L01)

MACH (3) = 1.050 ALPHA (3) = -5.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2880 .4270 .6730 .8870

X/CM	Y/BA	Y/BA	Y/BA	Y/BA
.480	.2880	.4270	.6730	.8870
.150	.3004			
.150	.1157			
.050		.4737		
.050	.1755	-.2585	9.9980	
.150	.1406	.0291	-.1378	
.250	.1816	.0945	-.0081	
.400		.1033	-.0310	
.550	.0120			
.600			-.1683	
.700		-.2614		
.750		-.4174		
.800		-.1294		
.850	9.9980			

MACH (3) = 1.050 ALPHA (4) = -2.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2880 .4270 .6730 .8870

X/CM	Y/BA	Y/BA	Y/BA	Y/BA
.480	.2880	.4270	.6730	.8870
.150	.2155			
.150	.1350			
.050		.4507		
.050	.2750	.1990	9.9980	
.150	.2171	.1779	.0328	
.250	.2236	.1964	.0570	
.400		.1517	.1378	-.0090
.550	.0404			
.600			-.1683	
.700		-.1811		
.750		-.4223		
.800		-.0683		
.850	9.9980			

TABLATED SOURCE DATA, NSFC TMT 867 (IASEF)

MSC 967(IASEF) T9 S3/2 S3/2 03 ORB. LOWER HING (RSEL01)

MACH (3) = 1.050 ALPHA (8) = .000 Q = 8.4371 PTA = 22.007 RL = 8.5711 PSA = 10.902

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2990 .4270 .6730 .8870

X/CA	Y/BA	Z/CA
-.408	.1269	
-.150	.1506	
-.033		.4181
.050	.3322	.3345 9.9000
.150	.2950	.2987 .1310
.250	.8448	.8130 .0650
.400		.1806 .1854 .0008
.550	.0588	
.700		-.2182
.750	-.4245	
.900	-.0558	
.950 9.9000		

MACH (3) = 1.058 ALPHA (8) = 2.000 Q = 8.4371 PTA = 22.007 RL = 8.5711 PSA = 10.902

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2990 .4270 .6730 .8870

X/CA	Y/BA	Z/CA
-.408	-.0215	
-.150	.1426	
-.033		.3468
.050	.3734	.4368 9.9000
.150	.2880	.3234 .2094
.250	.2348	.2650 .1704
.400		.1884 .1955 .0383
.550	.0678	
.700		-.2323
.750	-.4088	
.900	-.0389	
.950 9.9000		

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TB 53/2 53/2 03 CRB. LOWER MING (R82L011)

MACH (3) = 1.050 ALPHA (7) = 0.000 Q = 0.4371 PTA = 22.007 RL = 0.5711 PSA = 10.502

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BN .2600 .4270 .6730 .8670

X/CH	Y/BN	CP
-.420	.2600	-.2237
-.150	.4270	.1754
-.033	.6730	.2223
.050	.8670	.4177
.150		.5843
.250		.7059
.400		.8186
.550		.9261
.700		1.0287
.850		1.1267

MACH (3) = 1.050 ALPHA (8) = 0.000 Q = 0.4371 PTA = 22.007 RL = 0.5711 PSA = 10.502

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BN .2600 .4270 .6730 .8670

X/CH	Y/BN	CP
-.420	.2600	-.3734
-.150	.4270	.1987
-.033	.6730	.1898
.050	.8670	.4442
.150		.5835
.250		.7011
.400		.8236
.550		.9461
.700		1.0686
.850		1.1911

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82L01)

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MSFC 567(1A32F) TO 53/2 53/2 03 ORB. LOWER WIND

MACH (3) = 1.050 ALPHA (0) = 10.000 0 = 0.4371 PTA = 22.007 PL = 6.5711 PSA = 10.902

SECTION (110RB1TER WIND DEPENDENT VARIABLE CP

Y/BN .2500 .4270 .6730 .8870

X/CH			
-.490	-.4188		
-.150	.2210		
-.033		.1306	
.050	.4375	.7109	0.8000
.150	.3600	.5310	.4503
.250	.2825	.4118	.3402
.400	.2258	.2857	.1976
.550	.0875		
.600			.0206
.700		-.1307	
.750	-.2613		
.900	.0220		
.950	0.0000		

MACH (4) = 1.250 ALPHA (1) = -10.000 0 = 9.2828 PTA = 22.008 PL = 6.6822 PSA = 0.4788

SECTION (110RB1TER WIND DEPENDENT VARIABLE CP

Y/BN .2500 .4270 .6730 .8870

X/CH			
-.490	.2001		
-.150	-.1182		
-.033		.1700	
.050	-.1370	-.8231	0.8000
.150	-.1291	-.4221	-.4003
.250	.0230	-.1491	-.4682
.400		.0482	-.0253
.550	-.0484		
.600			-.2220
.700		-.0617	
.750	-.1859		
.900	-.4832		
.950	0.0000		

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 TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)
 MSFC 567(1A32F) TO 53/2 53/2 03 ORB. LOWER WING (R82L01)
 MACH (4) = 1.250 ALPHA (2) = -9.000 0 = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BN	.2980	.4270	.6730	.8870
X/CH				
-.480	.3666			
-.150	-.1283			
-.033		.1863		
.050	-.0454	-.3854	9.9090	
.150	-.0492	-.2404	-.3834	
.250	.0813	.0355	-.3237	
.400	-.0681	-.0230	-.2318	
.550	-.0222		-.0097	
.600				
.700		-.0446		
.750		-.1780		
.900		-.4822		
.950	9.9090			

MACH (4) = 1.250 ALPHA (3) = -5.000 0 = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BN	.2980	.4270	.6730	.8870
X/CH				
-.480	.2037			
-.150	-.1041			
-.033		.2880		
.050	.0574	-.0307	9.9090	
.150	.1724	.0307	-.1343	
.250	.1823	.0457	-.0718	
.400	-.0000	.1073	.0224	.0170
.550	-.0078			.0857
.600				
.700		-.0170		
.750		-.1828		
.900		-.4887		
.950	9.9090			

TABLATED SOURCE DATA, MSFC TMT 587 (11A32F)

(R82L011)

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MSFC 867(11A32F) T9 53/2 53/2 03 ORB. LOWER MING

MACH (4) = 1.250 ALPHA (4) = -2.000 0 = 9.8928 PTA = 22.006 PL = 0.6822 FSA = 0.4788

SECTION (1108)ITER MING DEPENDENT VARIABLE CP

Y/BA .2900 .4278 .6730 .6870

X/CA	Y/BA
-1480	.1351
-1180	-.0785
-033	.3230
050	.8000 0.8000
150	.1751 .1185
250	.1582 .2073
400	.1709 .1898
550	.0827
600	
700	.0318
750	-.1777
900	-.4947
950	0.8680

MACH (4) = 1.250 ALPHA (5) = .000 0 = 9.8928 PTA = 22.006 PL = 0.6822 FSA = 0.4788

SECTION (1108)ITER MING DEPENDENT VARIABLE CP

Y/BA .2900 .4278 .6730 .6870

X/CA	Y/BA
-1480	.1085
-1150	-.0541
-033	.3477
050	.2708 .3373 0.8000
150	.2581 .2727
250	.2487 .2323 .2429
400	.2218 .3141 .1770
550	.1438
600	
700	.1408
750	-.1708
900	-.4878
950	0.9080

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TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

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MSFC 567(1A32F) TO 53/2 53/2 03 ORG. LOWER MIMO

(R82L01)

MACH (4) = 1.250 ALPHA (6) = 2.000 Q = 9.2526 PTA = 22.008 PL = 6.6822 PSA = 8.4788

SECTION (1) ORBITER MIMO DEPENDENT VARIABLE CP

Y/BN .2690 .4270 .6730 .6870

X/CH

-.490	.1638
-.150	-.0154
-.033	.3171
.050	.3365
.150	.3091
.250	.2716
.400	.2534
.550	.1862
.600	.6000
.700	.0032
.750	-.1678
.900	-.4826
.950	9.6660

MACH (4) = 1.250 ALPHA (7) = 5.000 Q = 9.2536 PTA = 22.008 PL = 6.6822 PSA = 8.4788

SECTION (1) ORBITER MIMO DEPENDENT VARIABLE CP

Y/BN .2690 .4270 .6730 .6870

X/CH

-.490	-.0179
-.150	.0181
-.033	.1714
.050	.4122
.150	.3434
.250	.2849
.400	.2562
.550	.1427
.600	.6000
.700	.0019
.750	-.1962
.900	-.4751
.950	9.6660

TABULATED SOURCE DATA, MPFC TMT 887 (1A38F)

MPFC 887(1A38F) TO 93/8 93/8 03 088. LOWER WIND (RBL011)

MACH (M) = 1.250 ALPHA (A) = 0.000 Q = 9.2828 PTA = 22.008 PL = 0.6822 PSA = 8.1788

SECTION (1) 1109178 WIND DEPENDENT VARIABLE CP

Y/BM .2800 .4270 .6730 .8870

X/CM	CP
-.428	-.1484
-.150	.0668
-.033	-.0091
.050	.4252
.150	.3444
.250	.2583
.400	.2488
.550	.1287
.600	
.700	
.750	-.2302
.800	-.4104
.850	9.8880
	-.0028

MACH (M) = 1.250 ALPHA (A) = 10.000 Q = 9.2828 PTA = 22.008 PL = 0.6822 PSA = 8.1788

SECTION (1) 1109178 WIND DEPENDENT VARIABLE CP

Y/BM .2800 .4270 .6730 .8870

X/CM	CP
-.428	-.1849
-.150	.1148
-.033	-.0500
.050	.3820
.150	.3275
.250	.2488
.400	.2271
.550	.1028
.600	
.700	
.750	-.2411
.800	-.3383
.850	9.8880
	.1147
	-.0188

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TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 098. LOWER MING (R82L01)

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MACH (5) = 1.460 ALPHA (1) = -10.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 8.3619

DEPENDENT VARIABLE CP

SECTION (1) ORBITER MING

Y/BA .2960 .4270 .6730 .8870

X/CH				
-.480	.2773			
-.150	-.0802			
-.033		.2081		
.050		-.1187	-.3885	9.6860
.150		-.3305	-.4305	
.250	-.0398	-.3024	-.4133	
.400		.0854	-.1211	-.3700
.550	.0483			-.2954
.600			-.0533	
.700		-.0201		
.900		-.3194		
.950	9.9990			

MACH (5) = 1.450 ALPHA (2) = -9.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 8.3619

DEPENDENT VARIABLE CP

SECTION (1) ORBITER MING

Y/BA .2960 .4270 .6730 .8870

X/CH				
-.480	.2388			
-.150	-.0812			
-.033		.2237		
.050		-.0907	-.3235	9.6860
.150		-.1096	-.2957	-.3939
.250	-.0453		-.2283	-.3648
.400		.0767	-.0715	-.3394
.500	.0258			-.2067
.600			.0687	
.700				-.0297
.900				-.3121
.950	9.9990			

TABLATED SOURCE DATA, MSFC TMT 887 (1A32F)

MSFC 587(1A32F) TO 53/2 03 088. LOWER WING (R82L01)

MACH (5) = 1.480 ALPHA (3) = -5.000 0 = 9.4738 PTA = 22.008 RL = 6.5300 PSA = 6.3819

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

V/BW .2000 .4270 .6730 .8870

X/CM			
-.480	.1882		
-.150	-.0710		
-.033	.2472		
.050	-.0460	-.1723	9.9060
.150	-.0771	-.1098	-.2559
.250	-.0501	-.0759	-.2045
.400	.1781	.0825	-.1020
.550	.0856		
.600			.0470
.700		.1520	
.750	-.0218		
.800	-.3033		
.850	9.9060		

MACH (5) = 1.480 ALPHA (4) = -2.000 0 = 9.4738 PTA = 22.008 RL = 6.5300 PSA = 6.3819

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

V/BW .2000 .4270 .6730 .8870

X/CM			
-.480	.0531		
-.150	-.0522		
-.033	.2150		
.050	.0269	.0360	9.9060
.150	.0077	.0773	.0511
.250	.0738	.1251	-.1088
.400	.2334	.2071	.1453
.550	.1410		
.600			.2346
.700		.1568	
.750	-.0105		
.800	-.2884		
.850	9.9060		

TABLATED SOURCE DATA, MSFC TMT 507 (11A32F)

(R82L01)

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MSFC 507(11A32F) TO 53/2 53/2 03 ORB. LOWER HING

MACH (5) = 1.460 ALPHA (5) = .000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2900 .4270 .6730 .6870

X/CA

-.480	.0177		
-.150	-.0206		
-.033		.2138	
.050		.0985	.1793 9.9690
.150		.1071	.2278
.250	.1918		.3220 .2110
.400		.2797	.2554 .2139
.550	.1925		
.600			.2369
.700		.1610	
.750		-.0015	
.900		-.2908	
.950	9.9690		

MACH (5) = 1.460 ALPHA (8) = 2.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2900 .4270 .6730 .6870

X/CA

-.480	.0054		
-.150	-.0002		
-.033		.2185	
.050		.1671	.3622 9.9690
.150		.1877	.4200 .3218
.250	.2548		.3300 .2942
.400		.3124	.2745 .3210
.550	.2258		
.600			.2278
.700		.1765	
.750		.0013	
.900		-.2878	
.950	9.9690		

TABLATED SOURCE DATA, MSFC TMT 557 (11A32F)

(RREL01)

MSFC 567(1A32F) TG 53/2 53/2 03 ORB. LOWER MING

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MACH (8) = 1.480 ALPHA (7) = 5.000 Q = 9.4738 PTA = 22.008 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) ORBITER MING

Y/BN .2980 .4270 .6730 .6870

X/CM	
-.480	-.0575
-.150	.0563
-.033	.1873
.050	.2535
.150	.4087
.250	.3023
.400	.3841
.550	.1983
.600	
.700	.1768
.750	-.0078
.800	-.2814
.950	9.9880

MACH (5) = 1.480 ALPHA (8) = 8.000 Q = 9.4738 PTA = 22.008 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) ORBITER MING

Y/BN .2980 .4270 .6730 .6870

X/CM	
-.480	-.0687
-.150	.0662
-.033	.0605
.050	.4287
.150	.3858
.250	.3025
.400	.2846
.550	.1882
.600	
.700	.1719
.750	-.0562
.800	-.2951
.950	9.9880

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TABLATED SOURCE DATA, MFPC TNT 067 (1A2BF)

(R02L01)

MACH (6) = 1.480 ALPHA (1) = 10.000 0 = 9.4750 PTA = 22.000 RL = 6.5300 PSA = 6.3610

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	X/CM	Y/BM	X/CM
.2000	-.490	.4270	.6730
.4000	-.0783		.6670
.6000	-.1249		
.8000	-.0333	.0539	
.9000	.4316	.7288	9.9000
.9500	.150	.5823	.6509
	.250	.4825	.6312
	.400	.2901	.4185
	.550	.1801	.2536
	.700		.1841
	.750	-.0762	
	.900	-.2943	
.950	9.9000		

MACH (6) = 1.680 ALPHA (1) = -6.000 0 = 10.200 PTA = 27.998 RL = 7.0988 PSA = 3.6678

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	X/CM	Y/BM	X/CM
.2000	-.490	.4270	.6730
.4000	-.1962		.6670
.6000	-.0157		
.8000	.3025	-.0003	9.9000
.9000	.0726	-.0241	-.1058
.9500	.0184	-.0722	-.1215
	.250	.0060	-.1234
	.400	-.0033	-.1384
	.550	.0629	
	.700		-.0639
	.750	-.0428	
	.900	-.0888	
.950	9.9000		

TABLATED SOURCE DATA, MFSC TMT 087 (11A32F)

(RMBL011)

MACH (8) = 1.988 ALPHA (8) = -5.000 Q = 10.800 PTA = 27.988 RL = 7.0588 PSA = 3.8878
MFSC 887(11A32F) TO 83/2 83/2 03 ONB. LOWER MING

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA	.8980	.4270	.8730	.8878
X/CH				
-.490	.1188			
-.150	.0117			
-.033		.8283		
.050		.0862	.8778	9.8680
.150		.0331	.0008	-.0380
.250	.0140		-.0177	-.0304
.400		.0218	-.0585	-.0812
.550	.0831			-.0873
.600			-.0278	
.700		-.0087		
.750		-.0829		
.800				
.950	9.8680			

MACH (8) = 1.988 ALPHA (3) = -2.000 Q = 10.280 PTA = 27.988 RL = 7.0588 PSA = 3.8878

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA	.8980	.4270	.8730	.8878
X/CH				
-.490	.0782			
-.150	.0810			
-.033		.2207		
.050		.1328	.1975	9.8680
.150		.0784	.0874	.0823
.250	.0304		.0584	.0443
.400		.0817	-.0072	.0116
.550	.1254			-.0200
.600				
.700			.0438	
.750		.0785		
.800		-.0569		
.950	9.8680			

TABLATED SOURCE DATA, NSFC TMT 567 (1A32F)

NSFC 567(1A32F) TO 63/2 63/2 03 ONS. LOWER MING (NS2L01)

MACH (5) = 1.960 ALPHA (4) = .000 Q = 10.290 PTA = 27.958 RL = 7.0595 PSA = 3.6678

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2680 .4270 .6730 .6670

X/CH				
-.490	.0644			
-.150	-.0129			
-.033		.2216		
.050	.1493	.2518	9.9990	
.150	.1368	.1335		
.250	.0438	.1135	.1183	
.400	.0912	.0523	.0785	
.550	.1618			
.600			.0311	
.700		.1712		
.750	.1781			
.900	-.0383			
.950	9.9990			

MACH (6) = 1.960 ALPHA (5) = 2.000 Q = 10.290 PTA = 27.958 RL = 7.0595 PSA = 3.6678

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2680 .4270 .6730 .6670

X/CH				
-.490	.0545			
-.150	-.0015			
-.033		.2531		
.050	.1881	.3235	9.9990	
.150	.1440	.2050	.2182	
.250	.0768	.1870	.2038	
.400	.1242	.1160	.1565	
.550	.2042			
.600			.0607	
.700		.3598		
.750	.2444			
.900	-.0208			
.950	9.9990			

TABULATED SOURCE DATA, MSFC TMT 067 (1A3EF)

MSFC 067(1A3EF) T9 S3/2 S3/2 03 06B. LOWER HING (R82L01)

MACH (6) = 1.000 ALPHA (6) = 0.000 Q = 10.200 PTA = 27.000 RL = 7.0000 PSA = 3.8678

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2000 .4270 .6730 .8670

X/CA			
-.400	.0207		
-.150	.0388		
-.033		.2478	
.050		.2528	.4711 0.8680
.150		.2004	.3336 .4144
.250	.1234		.3824 .3378
.400		.2085	.2302 .2606
.550	.2528		
.600			.3019
.700			.3303
.750		.1853	
.900		-.0343	
.950	0.8630		

MACH (6) = 1.000 ALPHA (7) = 0.000 Q = 10.200 PTA = 27.000 RL = 7.0000 PSA = 3.8678

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2000 .4270 .6730 .8670

X/CA			
-.480	.1415		
-.150	.1834		
-.033		.2420	
.050		.2638	.5878 0.0200
.150		.2678	.4457 .5584
.250	.2088		.4387 .5714
.400		.3683	.5361 .5326
.550	.2334		
.600			.3945
.700			.2800
.750		.1204	
.900		-.0501	
.950	0.8600		

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 TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)
 MSFC 867(1A32F) TO 83/2 S3/2 03 ORB. LOWER WING (R82L02) (24 APR 74)

REFERENCE DATA
 SREF = 0.1880 SQ. IN. XWPP = 2.5496 IN. ALPHA = .000 CONF10 = 90.000
 LREF = 5.3130 IN. YWPP = .0000 IN. DELTAZ = .140 RUDDER = .000
 BREF = 5.3130 IN. ZWPP = 1.3320 IN. X-SRB = .000 ORBINC = .500
 SCALE = .0040 SCALE

MACH (1) = .600 BETA (1) = -10.000 0 = 4.3481 PTA = 22.007 RL = 4.9543 PSA = 17.251

PARAMETRIC DATA

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	X/CM
.2990	.4270
.6730	.6670
.3545	
.1185	
.3918	
.2221	.2667
.1507	.1334
.1368	.0776
.0305	-.0240
-.1056	-.0573
.600	-.1260
.700	-.2149
.750	-.2643
.900	-.0994
.950	9.6680

MACH (1) = .600 BETA (2) = -8.000 0 = 4.3481 PTA = 22.007 RL = 4.9543 PSA = 17.251

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BW	X/CI
.2990	.4270
.6730	.6670
.3030	
.0968	
.3700	
.2076	.2360
.1376	.1137
.1268	.0636
.0153	-.0321
-.1207	-.0769
.600	-.1331
.700	-.2157
.750	-.2736
.900	-.0984
.950	9.6680

TABLATED SOURCE DATA, MSFC TMT 887 (11A32F)

MACH (1) = .600 BETA (3) = -.4.000 Q = 4.3481 PTA = 22.007 RL = 4.8843 PSA = 17.251
 MSFC 887(11A32F) TO S3/2 S3/2 03 ORB. LOWER WING (RBELOE)

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2500	.4270	.6730	.8670
X/CH				
-.490	.2338			
-.150	.0718			
-.033		.3187		
.020		.1808	9.6000	
.180		.0884	-.0330	
.250	.0780	.0291	-.0448	
.400		-.0887	-.1005	
.550	-.1818			
.600				
.700				
.750				
.800				
.850	9.0000			

MACH (1) = .600 BETA (4) = .000 Q = 4.3481 PTA = 22.007 RL = 4.8843 PSA = 17.251

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2500	.4270	.6730	.8670
X/CH				
-.420	.4814			
-.150	.0348			
-.033		.2743		
.050		.1026	.1817	9.6000
.150		.0402	.0312	-.0652
.250	.0242		-.0182	-.0707
.400		-.0487	-.0732	-.1178
.550	-.1585			
.600				
.700				
.750				
.800				
.850	9.0000			

TABLATED SOURCE DATA, MSFC TMT 557 (1A32F)

MSFC 557(1A32F) TB 53/2 53/2 03 CRB. LOWER WING (R82L02)

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MACH (1) = .800 BETA (S) = 4.000 Q = 4.3481 PTA = 22.007 RL = 4.6643 PPA = 17.251

DEPENDENT VARIABLE CP

SECTION 1 (1) ORBITER WING

Y/BN .8000 .4270 .6730 .6670

X/CM	CP
-.450	.8708
-.150	-.0409
-.033	.2125
.050	.0493
.150	-.0018
.250	-.0042
.400	-.0800
.550	-.1327
.600	-.1700
.700	-.8193
.750	-.1679
.800	-.0918
.850	0.0000

MACH (1) = .800 BETA (S) = 0.000 Q = 4.3481 PTA = 22.007 RL = 4.6643 PPA = 17.251

DEPENDENT VARIABLE CP

SECTION 1 (1) ORBITER WING

Y/BN .8000 .4270 .6730 .6670

X/CM	CP
-.450	.1786
-.150	.0005
-.033	.1922
.050	.0363
.150	.0171
.250	.0382
.400	-.0309
.550	-.1033
.600	-.1786
.700	-.1918
.750	-.1673
.800	-.0691
.850	0.0000

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO S3/2 S3/2 Q3 ORB. LOWER NING (REEL02)

MACH (1) = .606 BETA (7) = 10.000 Q = 4.3481 PTA = 22.007 PL = 4.8043 PSA = 17.251

SECTION (1) ORBITER NING DEPENDENT VARIABLE CP

Y/BA	.2500	.4270	.6730	.8870
Z/CH	-.498	.2183		
	-.158	-.0027		
	-.033	.1458		
	.050	.0333	.0041	0.0000
	.158	-.0228	-.1027	
	.250	.8377	-.0358	-.1145
	.400	.400	-.0284	-.0833
	.550	-.0878		-.1708
	.600			-.1771
	.700			-.2183
	.800			-.1251
	.950	0.0000		

MACH (2) = .800 BETA (1) = -10.000 Q = 7.3884 PTA = 22.004 PL = 6.5414 PSA = 13.022

SECTION (1) ORBITER NING DEPENDENT VARIABLE CP

Y/BA	.2500	.4270	.6730	.8870
Z/CH	-.498	.6736		
	-.158	.1571		
	-.033	.4830		
	.050	.3081	.3534	0.0000
	.150	.2488	.2208	.0517
	.250	.8574	.1877	.0288
	.400	.400	.1784	.6736
	.550	.6727		-.0043
	.600			-.2487
	.700			-.4021
	.750			-.5087
	.900			-.8577
	.950	0.0000		

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R62L02)

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MSFC 567(1A32F) TO 63/2 63/2 03 05B. LOWER WIND

MACH (2) = .800 BETA (4) = .000 Q = 7.300% PTA = 22.00% PL = 6.5%14 PSA = 13.022

DEPENDENT VARIABLE CP

SECTION (1) : 1109B/ITER MING

Y/BN .2900 .4270 .6730 .8870

X/CH				
-.480	.3948			
-.150	.0739			
-.033	.3235			
.050	.1853	.1780	0.0000	
.150	.1145	.1034	-.0606	
.250	.1007	.0510	-.0912	
.400	.0321	-.0130	-.1943	
.550	-.0944			
.600			-.3573	
.700			-.3660	
.750			-.4065	
.900			-.0666	
.950	0.0000			

MACH (2) = .800 BETA (5) = .4000 Q = 7.300% PTA = 22.00% PL = 6.5%14 PSA = 13.022

DEPENDENT VARIABLE CP

SECTION (1) : 1109B/ITER MING

Y/BN .2900 .4270 .6730 .8870

X/CH				
-.480	.1787			
-.150	.0140			
-.033	.2869			
.050	.1139	.0822	0.0000	
.150	.0870	.0343	-.1278	
.250	.0690	.0217	-.1554	
.400		-.0108	-.0804	-.2433
.550	-.1098			
.600				-.3666
.700				-.4108
.750				-.2256
.900				-.0883
.950	0.0000			

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TABLATED SOURCE DATA. MSFC INT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 058. LOWER WING (1982.02)

MACH (2) = .000 BETA (6) = 0.000 0 = 7.3664 PTA = 22.004 PL = 6.5414 PSA = 13.322

DEPENDENT VARIABLE CP

SECTION (1) UPPER WING

Y/BW .2500 .4270 .6730 .8870

X/CH	CP
-.400	.1536
-.150	.0247
-.033	.2028
.050	-.1101
.150	.0224
.250	.1086
.400	.0175
.550	-.0565
.700	-.2934
.750	-.2705
.900	-.1361
.950	0.0000

MACH (2) = .000 BETA (7) = 10.000 0 = 7.3664 PTA = 22.004 PL = 6.5414 PSA = 13.322

DEPENDENT VARIABLE CP

SECTION (1) UPPER WING

Y/BW .2500 .4270 .6730 .8870

X/CH	CP
-.400	.1781
-.150	.0509
-.033	.2037
.050	.1338
.150	.0275
.250	.1081
.400	.0212
.550	-.0480
.700	-.3136
.750	-.2878
.900	-.1787
.950	0.0000

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TABULATED SOURCE DATA, MSFC THT 057 (1A32F)

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MSFC 057(1A32F) TO 03/2 03/2 03 OK. LOWER WING (R05L02)

MACH (3) = 1.050 BETA (1) = -10.000 Q = 0.4447 PTA = 22.007 RL = 0.0571 PSLA = 10.978

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/CM .2090 .4270 .0730 .0070

X/CM	
-.490	.2715
-.150	.2009
-.033	.6006
.050	.4431
.150	.3910
.250	.3663
.400	.3518
.500	.2664
.600	
.700	
.780	-.3247
.900	-.1811
.950	0.0000

MACH (3) = 1.050 BETA (2) = -9.000 Q = 0.4447 PTA = 22.007 RL = 0.0571 PSLA = 10.978

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/CM .2090 .4270 .0730 .0070

X/CM	
-.480	.5783
-.150	.1600
-.033	.0731
.050	.4169
.150	.3672
.250	.3691
.400	.3310
.500	.2308
.600	
.700	
.750	-.3631
.900	-.1235
.950	0.0000

TABULATED SOURCE DATA, MSFC INT 987 (1A32F)

MSFC 987(1A32F) TO 83/2 53/2 03 088. LOWER WING (1821.02)

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MACH (3) = 1.050 BETA (3) = -.000 0 = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

Y/BA .2900 .4270 .6730 .8870

X/CA	CP
-.490	.1508
-.150	.1576
-.033	.5021
.050	.3816
.150	.3328
.250	.3336
.400	.2785
.550	.1699
.600	.600
.700	-.3828
.750	-.0753
.900	9.9990
.950	9.9990

DEPENDENT VARIABLE CP

SECTION (4)

MACH (3) = 1.050 BETA (4) = .000 0 = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

Y/BA .2900 .4270 .6730 .8870

X/CA	CP
-.490	.1288
-.150	.1566
-.033	.4191
.050	.3322
.150	.2850
.250	.2448
.400	.1805
.550	.0588
.600	.600
.700	-.2182
.750	-.4248
.900	-.0558
.950	9.9990

TABLATED SOURCE DATA, NSFC TMT 667 (1A32F)

NSFC 667(1A32F) TO 63/2 63/2 03 ORB. LOWER MING (R82L02)

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MACH (3) = 1.050 BETA (6) = 4.000 Q = 8.4447 PTA = 22.007 RL = 6.6571 PSA = 10.975

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BN	.2000	.4270	.6730	.6670
X/CH	-.490	-.1223		
	-.150	.0676		
	-.033		.3276	
	.050	.2547	.2583	9.6000
	.150	.2056	.1937	.0655
	.250	.2151	.1769	.0371
	.400	.1167	.1004	-.0488
	.550	.0145		-.2155
	.600		-.2976	
	.700		-.3226	
	.750		-.1037	
	.900			
	.950	9.6000		

MACH (3) = 1.050 BETA (6) = 8.000 Q = 8.4447 PTA = 22.007 RL = 6.6571 PSA = 10.975

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BN	.2000	.4270	.6730	.6670
X/CH	-.490	-.0609		
	-.150	.1115		
	-.033		.2920	
	.050	.2665	.2200	9.6000
	.150	.2330	.1752	.0362
	.250	.2281	.1531	-.0086
	.400	.1366	.0654	-.0906
	.550	.0290		-.2671
	.600		-.3290	
	.700		-.3181	
	.750		-.1276	
	.900			
	.950	9.6000		

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MSFC 967(1A32F) T9 S3/2 53/2 03 ORB, LOWER HING (R82L02)

MACH (3) = 1.050 BETA (7) = 10.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.875

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BM	.2980	.4270	.6730	.8870
X/CH				
-.490	-.0708			
-.150	.0686			
-.033		.2713		
.050		.2469	.2176	9.9690
.150		.2212	.1750	.0308
.250	.2118		.1411	-.0255
.400			.1385	.0546
.550	.0074			-.1132
.600				-.2748
.700			-.3346	
.750		-.2848		
.900		-.1841		
.950	9.9690			

MACH (4) = 1.250 BETA (1) = -10.000 Q = 9.2803 PTA = 22.005 RL = 6.8757 PSA = 8.5361

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BM	.2980	.4270	.6730	.8870
X/CH				
-.490	.2910			
-.150	.0106			
-.033		.4788		
.050		.3826	.4885	9.9690
.150		.3914	.4285	.3300
.250	.4132		.4384	.3235
.400			.4480	.3910
.550	.4113			.2539
.600				.1237
.700			.0421	
.750		-.1028		
.900		-.4356		
.950	9.9690			

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TABULATED SOURCE DATA, MSFC TMT 567 (1A3EF)

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MSFC 567(1A3EF) TO S3/2 S3/2 03 ORB. LOWER WING (R82L02)

MACH (4) = 1.250 BETA (2) = -0.000 0 = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/RN .2900 .4270 .6730 .8670

X/CM	.2900	.4270	.6730	.8670
-.4308	.2437			
-.150	-.0031			
-.033	.4458			
.050	.2472	.4048	9.0000	
.150	.3728	.4008	.3210	
.250	.4092	.4151	.3148	
.400	.4228	.3768	.2483	
.550	.3770		.1059	
.600			.0388	
.700			-.1125	
.750			-.4388	
.900				
.950	9.0000			

MACH (4) = 1.250 BETA (3) = -4.000 0 = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/RN .2900 .4270 .6730 .8670

X/CM	.2900	.4270	.6730	.8670
-.480	.1743			
-.150	-.0238			
-.033	.3848			
.050	.2468	.3833	9.0000	
.150	.3297	.3488	.2978	
.250	.3508	.3878	.2784	
.400	.3482	.3443	.2078	
.550	.2847		.0828	
.600			.0118	
.700			-.1286	
.750			-.4828	
.900				
.950	9.0000			

TABLATED SOURCE DATA, MSFC TMT 867 (1A32F)

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(R8E202)

MSFC 867(1A32F) T9 S3/2 S3/2 03 ORB. LOWER MING

PSA = 8.5301

RL = 8.9757

PTA = 22.005

Q = 9.2603

BETA (4) = 1.250

MACH (4) = 1.250

DEPENDENT VARIABLE CP

SECTION 110ORBITER MING

Y/SM .2690 .4270 .6730 .8670

X/CM	.1065	.2799	.3373	.9.9990
-.490	-.0241	.3477	.2672	.2727
-.150	-.033	.2581	.2323	.2426
.050	.150	.2487	.2218	.3141
.250	.400	.1468	.0389	.1486
.550	.600			
.700	.750	-.1708		
.900	.950	-.4878		
9.9990				

PSA = 8.5351

RL = 8.9757

PTA = 22.005

Q = 9.2603

BETA (5) = 1.250

MACH (4) = 1.250

DEPENDENT VARIABLE CP

SECTION 110ORBITER MING

Y/SM .2690 .4270 .6730 .8670

X/CM	.1065	.2799	.3373	.9.9990
-.490	-.0241	.3477	.2672	.2727
-.150	-.033	.2581	.2323	.2426
.050	.150	.2487	.2218	.3141
.250	.400	.1468	.0389	.1486
.550	.600			
.700	.750	-.1708		
.900	.950	-.4878		
9.9990				

TABLATED SOURCE DATA, MBFC TMT 067 (1A38F)

MBFC 067(1A38F) TO 03/2 03/2 03 09B. LOWER WING (062L02)

MACH (4) = 1.050 BETA (8) = 0.000 Q = 0.2003 PTA = 22.005 PL = 0.9767 PSA = 0.6301

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2000 .4576 .6730 .6670

X/CA	Y/BA	CP
-.480	.2000	-.2455
-.150	.4576	-.1230
-.033	.6730	.2108
.050	.6670	.2206
.150		.2184
.250		.2357
.400		.1821
.500		.1956
.600		.1367
.700		.1671
.800		.1848
.900		.0543
.950		.1268
.980		-.0660
.990		-.1562
.995		-.2130
.998		-.3544
.999		-.9000

MACH (4) = 1.250 BETA (7) = 10.000 Q = 0.2003 PTA = 22.005 PL = 0.9767 PSA = 0.6301

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2000 .4270 .6730 .6670

X/CA	Y/BA	CP
-.480	.2000	-.2705
-.150	.4270	-.0762
-.033	.6730	.2127
.050	.6670	.2221
.150		.2067
.250		.1956
.400		.1481
.500		.0514
.600		-.1260
.700		-.1682
.750		-.2047
.900		-.2776
.950		-.9000

MSFC 967(1A32F) TO 53/2 53/2 03 ORB. LOWER WING (R82L02)

MACH (5) = 1.460 BETA (1) = -10.000 0 = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 6.3637

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2690	.4270	.6730	.8870
X/CM				
	-.490	.2774		
	-.150	.0851		
	-.033		.4717	
	.050	.2182	.3199	0.9660
	.150	.1902	.2272	.2399
	.250	.1447	.2880	.3685
	.400	.5364	.6229	.3918
	.550	.9151		.2730
	.600		.2203	
	.700	.0794		
	.900	-.2178		
	.950	0.9660		

MACH (5) = 1.460 BETA (2) = -8.000 0 = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 6.3637

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2690	.4270	.6730	.8870
X/CM				
	-.490	.2420		
	-.150	.0724		
	-.033		.4381	
	.050	.1852	.2873	0.9660
	.150	.1483	.1803	.1325
	.250	.1087	.1934	.1932
	.400	.3785	.4484	.3824
	.550	.4616		.2848
	.600		.2182	
	.700	.0725		
	.900	-.2228		
	.950	0.9660		

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 067(1A32F) TO S3/2 S3/2 S3 09B. LOWER HING (R62L02)

MACH (5) = 1.480 BETA (3) = -4.000 Q = 9.4716 PTA = 22.004 PL = 6.5271 PSA = 6.3637

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2600 .4270 .6730 .6670

X/CA				
-.430	.1939			
-.156	-.0091			
-.033		3.481		
.050		.6804	.1838	9.6660
.150		.0281	.1010	.0200
.250	.0341		.1185	.1048
.400		.3720	.3410	.2630
.500	.2600			
.600				.2758
.700			.1800	
.750		.0244		
.900		-.2477		
.950	9.6660			

MACH (5) = 1.480 BETA (4) = .000 Q = 9.4716 PTA = 22.004 PL = 6.5271 PSA = 6.3637

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2600 .4270 .6730 .6670

X/CA				
-.430	.0177			
-.156	-.0206			
-.033		.2138		
.050		.0965	.1783	9.6660
.150		.1071	.2278	.2278
.250	.1918		.3220	.2110
.400		.2787	.2554	.2139
.500	.1825			
.600				.2388
.700			.1818	
.750		-.0018		
.900		-.2908		
.950	9.6660			

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TABLATED SOURCE DATA, MSEC TMT 567 (1A32F)

MSEC 567(1A32F) 19 53/2 53/2 03 ORB. LOWER NING (R82L03)

MACH (5) = 1.480 BETA (5) = 4.000 0 = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 8.3837

SECTION (1) ORBITER NING DEPENDENT VARIABLE CP

Y/BA .2500 .4270 .6730 .8870

X/CH	Y/BA	Y/BA	Y/BA	Y/BA
-1.480	.2500	.4270	.6730	.8870
-1.150				
-0.033				
.050				
.150				
.250				
.400				
.550				
.700				
.750				
.900				
.950				

MACH (5) = 1.480 BETA (6) = 6.000 0 = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 8.3837

SECTION (1) ORBITER NING DEPENDENT VARIABLE CP

Y/BA .2500 .4270 .6730 .8870

X/CH	Y/BA	Y/BA	Y/BA	Y/BA
-1.480	.2500	.4270	.6730	.8870
-1.150				
-0.033				
.050				
.150				
.250				
.400				
.550				
.700				
.750				
.900				
.950				

MFPC 067(1A38F) TO 83/2 83/2 03 09D, LOWER MING (PROB.02)

MACH (8) = 1.000 BETA (2) = -.000 0 = 10.803 PTA = 27.067 PL = 7.0640 PSA = 3.8384

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .2000 .1470 .6730 .9670

X/CA	Y/BA
-.480	.0315
-.150	.0572
-.033	.3422
.050	.1538
.150	.1260
.250	.0600
.400	.1477
.550	.0933
.600	.1022
.700	.0653
.750	.0228
.900	.1253
.950	.0431
.950	0.0000

MACH (8) = 1.000 BETA (3) = .000 0 = 10.803 PTA = 27.067 PL = 7.0640 PSA = 3.8384

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BA .0900 .4870 .6730 .9670

X/CA	Y/BA
-.480	.0844
-.150	-.0125
-.033	.8218
.050	.1483
.150	.1049
.250	.0438
.400	.0812
.550	.1618
.600	.0312
.700	.1712
.750	.1781
.900	-.0383
.950	0.0000

TABULATED SOURCE DATA, MSFC TMT 587 (1A35F)

MSFC 587(1A35F) TO 53/2 53/2 03 000. LOWER WIND (R02L 02)

DATE 05 SEP 75

MACH (S) = 1.000 BETA (N) = 4.000 Q = 10.203 PTA = 27.907 PL = 7.0840 PSA = 3.8384

DEPENDENT VARIABLE CP

SECTION (1) ORBITER WIND

Y/BN	.2500	.4270	.6730	.8570
X/CM				
-.400	-.0134			
-.150	-.0482			
-.833		.1200		
.050		.0916	.1316	0.0000
.150		.0534	.0700	.0911
.250	.0017		.0005	.0791
.400		.1278	.0902	.0457
.500	.0033			
.600				.0512
.700			.1730	
.750			.1840	
.900			-.0008	
.950	0.0000			

MACH (S) = 1.000 BETA (S) = 0.000 Q = 10.203 PTA = 27.907 PL = 7.0840 PSA = 3.8384

DEPENDENT VARIABLE CP

SECTION (1) ORBITER WIND

Y/BN	.2500	.4270	.6730	.8570
X/CM				
-.400	-.0782			
-.150	-.0761			
-.833		.0790		
.050		.0527	.1251	0.0000
.150		.0050	.0081	.0001
.250	.0300		.0000	.0004
.400		.0823	.1024	.0011
.500	-.0046			.1107
.600				.1311
.700			.0413	
.750			-.1131	
.900	0.0000			

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TABLATED SOURCE DATA, NSFC TMT 667 (1A32F)

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NSFC 667(1A32F) TO 63/2 63/2 03 ORB. LOWER MING (R62L03)

MACH (1) = .600 BETA (3) = 4.000 Q = 4.3330 PTA = 22.007 RL = 4.6667 PSA = 17.270

DEPENDENT VARIABLE CP

SECTION (1) ORBITER MING

Y/BN	.2660	.4270	.6730	.6670
X/CM				
	-.490	.1663		
	-.150	.0124		
	-.033		.0636	
	.050	-.1368	.2666	9.6660
	.150	.0610	.1411	-.0716
	.250	.0618	.0600	.0115
	.400	-.0206	-.6135	-.0702
	.550	-.1240		
	.600			.1530
	.700		-.1663	
	.750	-.1719		
	.800	-.0495		
	.950	9.6660		

MACH (2) = .600 BETA (1) = -4.000 Q = 7.3630 PTA = 22.008 RL = 6.2700 PSA = 13.033

DEPENDENT VARIABLE CP

SECTION (1) ORBITER MING

Y/BN	.2660	.4270	.6730	.6670
X/CM				
	-.490	.4295		
	-.150	.1531		
	-.033		.2465	
	.050	.3646	.4756	9.6660
	.150	.2708	.3075	.1616
	.250	.2244	.2339	.0639
	.400	.1264	.0674	-.0536
	.550	-.0406		
	.600			-.2265
	.700		-.3647	
	.750	-.4625		
	.800	-.0665		
	.950	9.6660		

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82L03)

DATE 05 SEP 75

MSFC 567(1A32F) TO S3/2 S3/2 03 ORB. LOWER WING

MACH (2) = .900 BETA (2) = .000 Q = 7.3630 PTA = 22.008 RL = 6.2700 PSA = 13.033

DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

Y/BA .2590 .4270 .6730 .6670

X/CA

-.490	.1530		
-.150	.1160		
-.033	.1911		
.050	.3135	.4205	9.9690
.150	.2172	.2645	.1436
.250	.1667	.1756	.0654
.400	.0672	.0666	-.0666
.550	-.0596		-.2449
.600			
.700		-.3590	
.750	-.4051		
.900	-.0905		
.950	9.9690		

MACH (2) = .900 BETA (3) = 4.000 Q = 7.3630 PTA = 22.008 RL = 6.2700 PSA = 13.033

DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

Y/BA .2590 .4270 .6730 .6670

X/CA

-.490	.1107		
-.150	.0638		
-.033	.1500		
.050	.1650	.3196	9.9690
.150	.1450	.1812	.0618
.250	.1166	.1344	-.0179
.400	.0326	.0036	-.1372
.550	-.0968		-.2815
.600			
.700		-.3407	
.750	-.2436		
.900	-.0902		
.950	9.9690		

TABULATED SOURCE DATA, MSFC TMT 867 (1A32F)

MSFC 867(1A32F) TO 83/2 63/R 03 06B. LOWER WING (R62L03)

MACH (3) = 1.050 BETA (1) = -4.000 Q = 0.4300 PTA = 22.007 PL = 0.5700 PSA = 11.008

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BN .2000 .4270 .6730 .8670

X/CN	CP
-.450	.1101
-.150	.2203
-.033	.3316
.050	.5012
.150	.4688
.250	.4143
.350	.4032
.450	.2947
.550	.2685
.650	.1046
.700	-.0689
.750	-.1136
.800	-.0485
.850	0.0000

MACH (3) = 1.050 BETA (2) = .000 Q = 0.4300 PTA = 22.007 PL = 0.5700 PSA = 11.008

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BN .2000 .4270 .6730 .8670

X/CN	CP
-.450	-.2202
-.150	.1794
-.033	.2263
.050	.4177
.150	.3334
.250	.2711
.350	.2135
.450	.0668
.550	-.1067
.650	-.8131
.700	-.3747
.750	-.0146
.800	0.0000

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TABULATED SOURCE DATA, MSFC TMT 967 (1A32F)

DATE 05 SEP 75

(R62L03)

MSFC 967(1A32F) TO S3/2 S3/2 03 098. LOWER WING

MACH (3) = 1.050 BETA (3) = 4.000 Q = 0.4300 PTA = 22.007 RL = 6.5700 PSA = 11.008

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BM .2900 .4270 .6730 .8870

X/CH	Y/BM	CP
-.480	.2900	-.2350
-.150	.2900	.1453
-.033	.2900	.1674
.050	.2900	.2338
.150	.2900	.2708
.250	.2900	.2800
.400	.2900	.1874
.500	.2900	.0353
.600	.2900	-.1613
.700	.2900	-.2428
.750	.2900	-.2183
.800	.2900	-.0521
.950	.2900	9.9000

MACH (4) = 1.250 BETA (1) = -4.000 Q = 0.2843 PTA = 22.007 RL = 6.6887 PSA = 9.5180

SECTION (1) ORBITER MING DEPENDENT VARIABLE CP

Y/BM .2900 .4270 .6730 .8870

X/CH	Y/BM	CP
-.480	.2900	-.2008
-.150	.2900	.0704
-.033	.2900	.3873
.050	.2900	.4928
.150	.2900	.4263
.250	.2900	.3831
.400	.2900	.3874
.500	.2900	.2731
.600	.2900	.0188
.700	.2900	-.1511
.750	.2900	-.4711
.950	.2900	9.9000

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TABLATED SOURCE DATA, NSFC TMT 867 (1A3EF)

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MSFC 867(1A3EF) TO S3/2 S3/2 03 ORB. LOWER WING (R82L03)

MACH (4) = 1.250 BETA (2) = .000 0 = 9.2843 PTA = 22.007 RL = 6.6867 PSA = 8.5160

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2000	.4270	.6730	.8870
X/CM				
-.490	-.0178			
-.150	.0181			
-.033		.1714		
.050		.4122	.5870	9.0000
.150		.3484	.4324	.4182
.250	.2849		.3711	.3436
.400		.2582	.3411	.2381
.550	.1427			.0717
.600				
.700		.0019		
.750		-.1982		
.800		-.4751		
.950	9.9600			

MACH (4) = 1.250 BETA (3) = 4.000 0 = 9.2843 PTA = 22.007 RL = 6.6867 PSA = 8.5160

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM	.2000	.4270	.6730	.8870
X/CM				
-.490	-.2629			
-.150	-.0180			
-.033		.0841		
.050		.3182	.4728	9.0000
.150		.2738	.3548	.3342
.250	.2530		.3521	.2538
.400		.1858	.2458	.1482
.550	.1069			
.600				-.0081
.700			-.0569	
.750		-.2442		
.800		-.3023		
.950	9.9600			

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82L03)

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MSFC 567(1A32F) T9 S3/2 S3/2 03 ORB. LOWER MING

MACH (5) = 1.460 BETA (1) = -4.000 0 = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 6.3457

DEPENDENT VARIABLE CP

SECTION (1) ORBITER MING

Y/BM	.8980	.4870	.6730	.6670
X/CM				
-.490	.2175			
-.150	.0717			
-.033		.3005		
.050		.2556	.6268	9.9890
.150		.2168	.5273	.4780
.250	.3225		.5174	.4218
.400		.4015	.3868	.3642
.550	.3305			
.600				.2482
.700			.1672	
.750		.0482		
.900		-.2472		
.950	9.9890			

MACH (5) = 1.460 BETA (2) = .000 0 = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 6.3457

DEPENDENT VARIABLE CP

SECTION (1) ORBITER MING

Y/BM	.2090	.4270	.6730	.6670
X/CM				
-.490	-.0575			
-.150	.0583			
-.033		.1673		
.050		.2535	.6044	9.9890
.150		.4087	.4848	.4350
.250	.3323		.3773	.3769
.400		.3041	.3266	.3311
.550	.1683			
.600				.2225
.700			.1768	
.750		-.0078		
.900		-.2814		
.950	9.9890			

TABLATED SOURCE DATA, NSFC THT 567 (1A32F)

(RBL03)

NSFC 567(1A32F) TO 53/2 53/2 03 ORB. LOWER WIND

MACH (5) = 1.480 BETA (3) = 4.000 Q = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 6.3457

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BH .2690 .4270 .6730 .8670

X/CM	Y/BH	CP
-0.480	.2690	.2261
-0.150	.4270	.0335
-0.033	.6730	.1578
.050	.8670	.3348
.150		.3214
.250		.3687
.400		.2626
.550		.1012
.600		
.700		.0707
.750		-.0750
.800		-.3140
.850		0.8690

MACH (6) = 1.660 BETA (1) = -4.000 Q = 10.250 PTA = 28.006 RL = 7.0600 PSA = 3.8317

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BH .2690 .4270 .6730 .8670

X/CM	Y/BH	CP
-0.480	.2690	.0009
-0.150	.4270	.0760
-0.033	.6730	.3986
.050	.8670	.2156
.150		.1821
.250		.1441
.400		.1702
.550		.3531
.600		
.700		.4482
.750		.2838
.800		.0334
.850		0.9690

TABULATED SOURCE DATA, MF7C THT 887 (1A3EF)

(R02L031)

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MF7C 887(1A3EF) TO 83/2 83/2 03 ORB. LOWER MING

MACH (8) = 1.980 BETA (2) = .000 Q = 10.258 PTA = 28.008 PL = 7.0800 PSA = 3.8317

DEPENDENT VARIABLE CP

SECTION (1) ORBITER MING

Y/BM .2860 .4270 .6730 .8870

X/CM	.0207			
-.490	.0388			
-.150		.8478		
-.033		.2528	.4711	8.9590
.050		.2054	.3338	.4144
.150	.1234		.3224	.3378
.250		.2905	.2302	.2696
.400				
.550	.8988			.3018
.600				
.700		.3383		
.750		.1923		
.900		-.0343		
.950	8.9880			

DEPENDENT VARIABLE CP

SECTION (1) ORBITER MING

Y/BM .2860 .4270 .6730 .8870

X/CM	-.0273			
-.490	.0319			
-.150		.1471		
-.033		.1588	.4182	8.9880
.050		.1384	.2903	.4135
.150	.0885		.4082	.4128
.250		.8810	.3000	.2885
.400				
.550	.1378			.2812
.600				
.700		.2888		
.750		.0708		
.900		-.0904		
.950	8.9880			

MACH (8) = 1.980 BETA (3) = 4.000 Q = 10.258 PTA = 28.008 PL = 7.0800 PSA = 3.8317

(MODEL) (24 APR 74)

MSFC 067(1A32F) TO S3/2 S3/2 03 ORG. LOWER HING

PARAMETRIC DATA

ALPHA = -8.000 CONF10 = 80.000
 DELTAZ = .140 RUDDER = .000
 X-SIB = .000 ORBINC = .500

REFERENCE DATA

BREF = 6.1090 3D. IN. XPRP = 2.5450 IN.
 LREF = 5.3130 IN. YPRP = .0000 IN.
 SREF = 5.3130 IN. ZPRP = 1.3350 IN.
 SCALE = .0040 SCALE

MACH (1) = .600 BETA (1) = -4.000 Q = 4.3053 PTA = 22.012 PL = 4.9733 PSA = 17.309

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2680 .4270 .6730 .8870

X/CA	-.4280	.2680	.4270	.6730	.8870
-.4280					
-.150					
-.033					
.050					
.150					
.250					
.400					
.550					
.600					
.700					
.750					
.900					
.950					

MACH (1) = .600 BETA (2) = .000 Q = 4.3053 PTA = 22.012 PL = 4.9733 PSA = 17.309

SECTION (1) ORBITER HING DEPENDENT VARIABLE CP

Y/BA .2680 .4270 .6730 .8870

X/CA	-.4280	.2680	.4270	.6730	.8870
-.4280					
-.150					
-.033					
.050					
.150					
.250					
.400					
.550					
.600					
.700					
.750					
.900					
.950					

DATE 05 SEP 75
 TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)
 MSFC 567(1A32F) TO 53/2 53/2 03 068. LOWER WING (ABELOW)
 MACH (1) = .600 BETA (3) = 4.000 Q = 4.3053 PTA = 22.012 PL = 4.9733 PSA = 17.308

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2000 .4270 .6730 .8670

X/CH	.490	.3672	.2366	0.0000
-.150	-.0817			
-.033				
.050	-.0716	-.3263	0.0000	
.150	-.1072	-.2040	-.2894	
.250	-.0608	-.1647	-.2163	
.400	-.1611	-.1775	-.1965	
.550	-.1979			
.600		-.2049		
.700		-.2488		
.750		-.2232		
.900		-.0933		
.950	0.0000			

-c

MACH (2) = .900 BETA (1) = -4.000 Q = 7.3813 PTA = 22.005 PL = 6.2700 PSA = 13.033

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2000 .4270 .6730 .8670

X/CH	.6303	.4256	0.0000	0.0000
-.150	.0706			
-.033				
.050	.0692	-.1324	0.0000	
.150	.0369	-.0543	-.2572	
.250	.1023	-.0307	-.1617	
.400	-.0806	.0148	-.0626	-.2257
.550				
.600				-.3774
.700				-.4678
.750				-.6209
.900				-.1009
.950	0.0000			

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 ORB. LOWER WING (R62L04)

MACH (2) = .900 BETA (2) = .000 Q = 7.3613 PTA = 22.005 RL = 6.2700 PSA = 13.033

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2600 .4270 .6730 .8670

X/CM	Y/BM	CP
.400	.2600	.4938
.150	.2600	.0941
.033	.2600	.3528
.050	.2600	.0353
.150	.2600	-.0018
.250	.2600	.0421
.400	.2600	-.0428
.550	.2600	-.1262
.600	.2600	.0000
.700	.2600	-.1606
.750	.2600	-.4625
.900	.2600	-.0826
.950	.2600	.9.6660
.400	.4270	-.2180
.150	.4270	-.1253
.050	.4270	-.0987
.250	.4270	-.2053
.400	.4270	-.0681
.550	.4270	-.2483
.600	.4270	.0000
.700	.4270	-.3657
.750	.4270	.0000
.900	.4270	.0000
.950	.4270	.0000

MACH (2) = .900 BETA (3) = 4.000 Q = 7.3613 PTA = 22.005 RL = 6.2700 PSA = 13.033

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BM .2600 .4270 .6730 .8670

X/CM	Y/BM	CP
.400	.2600	.2906
.150	.2600	-.0286
.033	.2600	.2778
.050	.2600	.0163
.150	.2600	-.0268
.250	.2600	.0104
.400	.2600	-.0949
.550	.2600	-.1415
.600	.2600	.0000
.700	.2600	-.4536
.750	.2600	-.2826
.900	.2600	-.1334
.950	.2600	.9.6660
.400	.4270	-.3015
.150	.4270	-.1608
.050	.4270	-.1214
.250	.4270	-.2672
.400	.4270	-.1957
.550	.4270	-.2825
.600	.4270	.0000
.700	.4270	-.4407
.750	.4270	.0000
.900	.4270	.0000
.950	.4270	.0000

ORIGINAL PAGE OF POOR QUALITY

MSFC 567(1A32F) TO 53/2 53/2 03 ORB. LOWER WING (R82L04)

MACH (3) = 1.050 BETA (1) = -4.000 Q = 0.4020 PTA = 22.003 RL = 6.5633 PSA = 11.064

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2000 .4270 .6730 .8870

X/CA				
-.450	.2445			
-.150	.1114			
-.033	.5383			
.050	.1887	.0145	0.0660	
.150	.1721	.1027	-.0935	
.250	.2595	.1315	.0165	
.400	.1800	.1324	-.0110	
.550	.1150		-.1490	
.600		-.2478		
.700		-.3923		
.750		-.1534		
.800				
.950	0.0000			

MACH (3) = 1.050 BETA (2) = .000 Q = 0.4020 PTA = 22.003 RL = 6.5633 PSA = 11.064

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2000 .4270 .6730 .8870

X/CA				
-.450	.3684			
-.150	.1157			
-.033	.4737			
.050	.1755	-.0285	0.0560	
.150	.1406	.0281	-.1578	
.250	.1810	.0245	-.0061	
.400	.1033	.0913	-.0310	
.550	.0120		-.1855	
.600		-.2614		
.700		-.4174		
.750		-.1284		
.800				
.950	0.0000			

DATE 05 SEP 75 TABULATED SOURCE DATA, MSFC TMT 567 (11A32F)

MSFC 067(11A32F) TO 53/2 53/2 03 ORB. LOWER WIND (R82L04)

MACH (3) = 1.000 BETA (3) = 4.000 Q = 0.4020 PTA = 22.003 PL = 0.6833 PSL = 11.004

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BA .2000 .4270 .6730 .8870

X/CA	Y/BA	Z/CA	CP
.480	.2000	.4270	.8870
.150	.2000	.4270	.8870
.050	.2000	.4270	.8870
.150	.2000	.4270	.8870
.450	.2000	.4270	.8870
.700	.2000	.4270	.8870
.900	.2000	.4270	.8870
.950	.2000	.4270	.8870
.480	.2000	.4270	.8870
.150	.2000	.4270	.8870
.050	.2000	.4270	.8870
.150	.2000	.4270	.8870
.450	.2000	.4270	.8870
.700	.2000	.4270	.8870
.900	.2000	.4270	.8870
.950	.2000	.4270	.8870

MACH (4) = 1.200 BETA (1) = 4.000 Q = 0.8700 PTA = 22.003 PL = 0.6900 PSL = 9.3303

SECTION (1) ORBITER WIND DEPENDENT VARIABLE CP

Y/BA .2000 .4270 .6730 .8870

X/CA	Y/BA	Z/CA	CP
.480	.2000	.4270	.8870
.150	.2000	.4270	.8870
.050	.2000	.4270	.8870
.150	.2000	.4270	.8870
.450	.2000	.4270	.8870
.700	.2000	.4270	.8870
.900	.2000	.4270	.8870
.950	.2000	.4270	.8870
.480	.2000	.4270	.8870
.150	.2000	.4270	.8870
.050	.2000	.4270	.8870
.150	.2000	.4270	.8870
.450	.2000	.4270	.8870
.700	.2000	.4270	.8870
.900	.2000	.4270	.8870
.950	.2000	.4270	.8870

TABLATED SOURCE DATA. MSFC TWT 867 (1A32F)

DATE 05 SEP 75

MSFC 867(1A32F) TO 83/2 83/2 03 098. LOWER WING (R82L04)

MACH (4) = 1.250 BETA (2) = .000 Q = 8.2780 PTA = 22.005 PL = 8.0800 PSA = 8.5383

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/SM .2900 .4270 .6730 .8870

X/CM	CP
-.490	.2037
-.180	-.1041
-.033	.8900
.050	.0874
.150	.1724
.250	.1823
.400	.1673
.550	.0078
.600	.0887
.700	-.0170
.750	-.1828
.900	-.4887
.950	8.8600

MACH (4) = 1.250 BETA (3) = 4.000 Q = 8.2780 PTA = 22.005 PL = 8.0800 PSA = 8.5383

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/SM .2900 .4270 .6730 .8870

X/CM	CP
-.490	-.0237
-.180	-.1482
-.033	.2188
.050	.1257
.150	.1152
.250	.1573
.400	.0381
.550	-.0685
.600	.0457
.700	-.1072
.750	-.2437
.900	-.4827
.950	8.9500

MACH (5) = 1.480 BETA (1) = -.000 0 = 9.4747 FTA = 22.010 RL = 6.5300 PSA = 8.3713
 (RBELOW)

SECTION (110981ITER MING DEPENDENT VARIABLE CP

Y/BA	.8000	.4270	.6730	.8670
X/CM				
-.480	.1574			
-.150	-.0583			
-.033		.3322		
.050		-.0253	-.1215	9.9900
.150		-.0841	-.1388	-.2714
.250	-.0404		-.1185	-.2508
.400		.0560	-.0708	-.1873
.550	.1832			
.600				-.0085
.700			.1735	
.750		.0388		
.800		-.2840		
.950	9.9690			

MACH (5) = 1.480 BETA (2) = .000 0 = 9.4747 FTA = 22.010 RL = 6.5300 PSA = 8.3713

SECTION (110981ITER MING DEPENDENT VARIABLE CP

Y/BA	.2800	.4270	.6730	.8670
X/CM				
-.480	.1882			
-.150	-.0710			
-.033		.2472		
.050		-.0488	-.1723	9.9900
.150		-.0771	-.1058	-.2559
.250	-.0501		-.0758	-.2045
.400		.1781	.0825	-.1020
.550	.0886			
.600				.0470
.700			.1820	
.750		-.6216		
.800		-.3033		
.950	9.9690			

DATE 05 SEP 75

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

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MSFC 567(1A32F) T8 53/2 53/2 03 ORB. LOWER WING (RBELOW)

MACH (5) = 1.460 BETA (3) = 4.000 Q = 8.4747 PTA = 22.016 RL = 6.5300 PSA = 6.3712

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2990 .4270 .6730 .8870

X/CH	Y/BA	CP
.490	.2990	-.0041
.150	.4270	-.1074
.033	.6730	.1539
.050	.8870	-.0903
.150		-.1710
.250		-.1318
.400		.1011
.550		.0726
.700		-.0328
.850		-.0926
.900		.0979
.950		-.0939
		-.3343
		.9590

MACH (6) = 1.660 BETA (1) = -4.000 Q = 10.282 PTA = 28.008 RL = 7.0933 PSA = 3.8560

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2990 .4270 .6730 .8870

X/CH	Y/BA	CP
.490	.2990	.0576
.150	.4270	.0387
.033	.6730	.3692
.050	.8870	.0931
.150		.1241
.250		.0493
.400		.0342
.550		.0032
.700		-.0271
.850		-.0564
.900		-.0378
.950		.0311
		-.0035
		.9690

MSFC 567(1A32F) T9 S3/2 S3/2 03 ORB. LOWER WING (RBELOW)

MACH (6) = 1.560 BETA (2) = .000 Q = 10.282 PTA = 28.008 RL = 7.0933 PSA = 3.6560

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2990 .4270 .6730 .6870

X/CM	Y/BA	Z/CM	CP
-.490	.1198		
-.150	.0117		
-.033	.2323		
.050	.0862	.0775	9.9990
.150	.0331	.0009	-.0360
.250	.0140	-.0177	-.0384
.400	.000	.0218	-.0555
.550	.0831		-.0612
.600			-.0973
.700		-.0278	
.750		-.0087	
.900		-.0828	
.950	9.9990		

MACH (6) = 1.560 BETA (3) = 4.000 Q = 10.282 PTA = 28.008 RL = 7.0933 PSA = 3.6560

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

Y/BA .2990 .4270 .6730 .6870

X/CM	Y/BA	Z/CM	CP
-.490	.0658		
-.150	-.0255		
-.033	.1320		
.050	.0478	-.0305	9.9990
.150	-.0066	-.0789	-.1217
.250	-.0342	-.0914	-.1264
.400	.0444	-.0944	-.1348
.550	-.0214		-.1384
.600			-.1384
.700		-.0134	
.750		-.1176	
.900		-.1072	
.950	9.9990		

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TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

(RB25C1) (24 APR 74)

MSFC 567(1A32F) 19 53/2 53/2 03 SRM CONE

PARAMETRIC DATA

BETA = .000 CONFIO = 90.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5480 IN.
 LREF = 5.3130 IN. YMRP = .9720 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040 SCALE

MACH (1) = .600 ALPHA (1) = -10.000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS .0433 .0722 .1013

PHI	.000	.3437	.0326
22.500	.3316	.2000	-.1015
45.000	.1449	.0433	-.2525
67.500			-.3782
90.000	-.1287	-.1984	-.4665
112.500			-.4801
135.000	-.1654	-.2480	-.4979
157.500	-.1536	-.2472	-.4972
180.000	-.1485	-.2487	-.4965
202.500	-.2187	-.3033	-.5477
225.000	-.2728	-.4574	-.7039
247.500			-.9655
270.000	-.1287	-.2293	-.5565
292.500			.1072
315.000	.4148	.4163	.1708
337.500	.5266	.4483	.1491
360.000	.4680	.3437	.0326

MACH (1) = .600 ALPHA (2) = -8.000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS .0433 .0722 .1013

PHI	.000	.2981	-.0096
22.500	.3085	.1807	-.1206
45.000	.1598	.0548	-.2398
67.500			-.3400
90.000	-.0482	-.1288	-.4089
112.500			-.4334
135.000	-.0973	-.1885	-.4461
157.500	-.0882	-.1880	-.4504
180.000	-.0945	-.2015	-.4551
202.500	-.1334	-.2669	-.5182
225.000	-.1631	-.3272	-.6209
247.500			-.8640
270.000	.0036	-.0794	-.3992

TABLATED SOURCE DATA, MSFC THT 567 (1A3ZF)

(RB2SC1)

DATE 05 SEP 75

MSFC 567(1A3ZF) TO 53/2 53/2 03 SRH CONE

MACH (1) = .600 ALPHA (2) = -0.000

SECTION (1) SRH 600S CONE DEPENDENT VARIABLE CP

X/L5 .0433 .0722 .1013

PHI	CP
200.000	.0788
315.000	.0014
337.500	.4757
360.000	.4216

MACH (1) = .600 ALPHA (3) = -0.000 0 = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRH 600S CONE DEPENDENT VARIABLE CP

X/L5 .0433 .0722 .1013

PHI	CP
.000	.3452
22.500	.1538
45.000	.1834
67.500	.0574
90.000	.0147
112.500	-.0075
135.000	-.0022
157.500	-.0102
180.000	-.0111
202.500	.1568
225.000	.0982
247.500	.3270
270.000	.3030
292.500	.2243
315.000	.1424
337.500	.1012
360.000	.0694

MACH (1) = .600 ALPHA (4) = -2.000 0 = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRH 600S CONE DEPENDENT VARIABLE CP

X/L5 .0433 .0722 .1013

PHI	CP
.000	.2575
22.500	.2144
45.000	.1758
67.500	.1066
90.000	.0905
112.500	.0848
135.000	.1424
157.500	.1012

TABLULATED SOURCE DATA, MSFC TNT 567 (1A32F)

(R825C11)

DATE 05 SEP 75

MSFC 567(1A32F) T9 53/2 53/2 03 SRM CONE

MACH (1) = .600 ALPHA (4) = -2.000

SECTION (1) SRM 600S CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI:			
180.000	.0772	-.0408	-.3317
202.500	.0878	-.0398	-.3608
225.000	.1158	-.0253	-.4215
247.500		-.4233	
270.000	.2471	.2061	-.0940
292.500		-.0467	
315.000	.3343	.2477	-.1067
337.500	.3088	.2048	-.0835
360.000	.2575	.1424	-.1582

MACH (1) = .600 ALPHA (5) = .000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM 600S CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1952	.0867	-.2063
22.500	.1671	.0651	-.2239
45.000	.1478	.0518	-.2442
67.500		-.2582	
90.000	.1208	.0249	-.2636
112.500		-.2692	
135.000	.1177	.0157	-.2749
157.500	.1200	.0132	-.2792
180.000	.1316	.0123	-.2873
202.500	.1489	.0258	-.3050
225.000	.1798	.0538	-.3411
247.500		-.3038	
270.000	.2797	.2366	-.0576
292.500		-.1212	
315.000	.2781	.1823	-.1810
337.500	.2493	.1407	-.1782
360.000	.1952	.0867	-.2063

TABLATED SOURCE DATA, MSFC TMT 567 (1A3ZF)

DATE 05 SEP 75

MSFC 567(1A3ZF) TO 53/2 53/2 03 5PM CONE (R825C1)

MACH (1) = .600 ALPHA (6) = 2.000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

DEPENDENT VARIABLE CP

SECTION (1) 5PM 600S CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.1320	.0268	-.2638
22.500	.1200	.0208	-.2687
45.000	.1151	.0234	-.2807
67.500			-.2910
90.000	.1173	.0215	-.2791
112.500			-.2700
135.000	.1408	.0347	-.2537
157.500	.1806	.0472	-.2352
180.000	.1982	.0624	-.2119
202.500	.2152	.0773	-.2310
225.000	.2463	.1308	-.2581
247.500			-.1800
270.000	.2623	.2442	-.0412
292.500			-.2156
315.000	.2110	.0990	-.2795
337.500	.1818	.0681	-.2468
360.000	.1320	.0268	-.2638

MACH (1) = .600 ALPHA (7) = 6.000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

DEPENDENT VARIABLE CP

SECTION (1) 5PM 600S CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.0944	-.0431	-.3316
22.500	.0525	-.0368	-.3300
45.000	.0529	-.0379	-.3249
67.500			-.3132
90.000	.0782	-.0140	-.3000
112.500			-.2688
135.000	.1625	.0568	-.2310
157.500	.2249	.1058	-.1993
180.000	.2825	.1513	-.1527
202.500	.3183	.1888	-.1408
225.000	.3288	.2381	-.1291
247.500			-.0677
270.000	.2483	.2018	-.0888
292.500			-.1044
315.000	.1054	-.0228	-.3978
337.500	.0782	-.0368	-.3291
360.000	.0544	-.0431	-.3316

TABLULATED SOURCE DATA, MSFC TWT 567 (1A32F)

(R82SC1)

MSFC 567(1A32F) 19 S3/2 S3/2 03 SRM CONE

MACH (1) = .600 ALPHA (8) = 8.000 Q = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	-.0211	-.1066	-.3739
22.500	-.0227	-.1049	-.3665
45.000	-.0255	-.1058	-.3607
67.500		-.3731	
90.000	.0123	-.0678	-.3378
112.500		-.2901	
135.000	.1755	.0732	-.2081
157.500	.2825	.1637	-.1363
180.000	.3748	.2447	-.0732
202.500	.4083	.2957	-.0342
225.000	.3957	.3243	.0000
247.500		.0273	
270.000	.1582	.0965	-.2039
292.500		-.6170	
315.000	-.0378	-.1748	-.5104
337.500	-.0396	-.1447	-.4000
360.000	-.0211	-.1066	-.3739

MACH (1) = .600 ALPHA (9) = 10.000 Q = 4.3818 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	-.0735	-.1554	-.4075
22.500	-.0805	-.1834	-.4040
45.000	-.0957	-.1704	-.4141
67.500		-.4163	
90.000	-.0574	-.1208	-.3857
112.500		-.3197	
135.000	.1628	.0615	-.2111
157.500	.3095	.1874	-.1127
180.000	.4274	.2919	-.0248
202.500	.4655	.3597	.0341
225.000	.4273	.3712	.0732
247.500		.0779	
270.000	.0787	.0075	-.2834
292.500		-.7237	
315.000	-.1439	-.2846	-.5759
337.500	-.1069	-.2143	-.4309
360.000	-.0735	-.1554	-.4075

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R25C1)

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MSFC 567(1A32F) T9 53/2 53/2 03 SRH CONE

MACH (2) = .900 ALPHA (1) = -10.000 Q = 7.3609 PTA = 22.007 PL = 6.2778 PSA = 12.685

DEPENDENT VARIABLE CP

SECTION (1) SRH 8005 CONE

X/L5	.0433	.0722	.1013	
PHI	.000	.6059	.4820	.2261
22.500	.4763	.3434	.1085	
45.000	.2810	.1739	-.0269	
67.500			-.1484	
90.000	-.0231	-.0830	-.2312	
112.500			-.2548	
135.000	-.0600	-.1265	-.2947	
157.500	-.0245	-.1114	-.2371	
180.000	-.0245	-.1225	-.2514	
202.500	-.0977	-.1667	-.3293	
225.000	-.1457	-.3372	-.5468	
247.500			-.6910	
270.000	.0445	.0220	-.0449	
292.500			.3010	
315.000	.5084	.9708	.3718	
337.500	.6566	.5961	.3360	
360.000	.6959	.4820	.2261	

MACH (2) = .900 ALPHA (2) = -6.000 Q = 7.3609 PTA = 22.007 PL = 6.2778 PSA = 12.685

DEPENDENT VARIABLE CP

SECTION (1) SRH 8006 CONE

X/L5	.0433	.0722	.1013	
PHI	.000	.5948	.4426	.1817
22.500	.4362	.3184	.0684	
45.000	.2938	.1824	-.0128	
67.500			-.0984	
90.000	.0041	.0001	-.1923	
112.500			-.1744	
135.000	.0184	-.0563	-.1739	
157.500	.0352	-.0480	-.1884	
180.000	.0339	-.0626	-.2068	
202.500	.0011	-.1161	-.2774	
225.000	-.0304	-.1916	-.4368	
247.500			-.6274	
270.000	.1568	.1373	.0440	
292.500			.5717	
315.000	.5422	.5484	.3263	
337.500	.6048	.5372	.3017	
360.000	.5548	.4426	.1817	

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TABULATED SOURCE DATA. MSFC TWT 567 (1A32F)

DATE 09 SEP 75

MSFC 567(1A32F) TO 53/2 53/2 03 SRM CONE (R825C1)

MACH (2) = .900 ALPHA (3) = -5.000 0 = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L8	.0433	.0728	.1013
PHI			
.000	.4800	.3823	.1227
22.500	.3982	.2868	.0413
45.000	.2948	.2143	.0107
67.500		-.0454	
90.000	.1828	.0688	-.0725
112.500		-.1033	
135.000	.1186	.0409	-.1137
157.500	.1249	.0408	-.1183
180.000	.1150	.0240	-.1342
202.500	.1105	.0082	-.1612
225.000	.1216	.0103	-.2584
247.500		-.2724	
270.000	.2390	.2885	.2001
292.500		.3468	
315.000	.4925	.4782	.2518
337.500	.5209	.4437	.2259
360.000	.4600	.3823	.1227

MACH (2) = .900 ALPHA (4) = -2.000 0 = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L8	.0433	.0722	.1013
PHI			
.000	.3818	.2948	.0881
22.500	.3275	.2439	.0419
45.000	.2855	.2057	.0133
67.500		-.0139	
90.000	.2208	.1391	-.0211
112.500		-.0438	
135.000	.2069	.1249	-.0417
157.500	.2078	.1173	-.0579
180.000	.2082	.1068	-.0748
202.500	.2237	.1225	-.0851
225.000	.2559	.1548	-.0898
247.500		-.0138	
270.000	.3938	.3910	.3169
292.500		.2948	
315.000	.4519	.4067	.1683
337.500	.4373	.3541	.1498
360.000	.3818	.2948	.0881

TABULATED SOURCE DATA, MSFC TMT 087 (1A32F)

(R825C1)

DATE 03 SEP 75

MSFC 087(1A32F) TO 93/2 93/2 03 SRH CONE

PSA = 12.985

RL = 6.2778

PTA = 22.007

Q = 7.3809

ALPHA (0) = .000

Q = .000

PSA = 12.985

DEPENDENT VARIABLE CP

SECTION (1) SRH 0005 CONE

X/LS	PHI	ALPHA (0)
.0433	.0722	.1513
.3108	.2208	.0312
.2688	.1984	.0138
.2592	.1857	-.0000
.67.500	.0202	-.0202
.90.000	.1588	-.0204
112.500	-.0234	-.0234
135.000	.1537	-.0207
.2449	.1486	-.0312
157.500	.1583	-.0339
.2587	.1661	-.0250
180.000	.2308	-.0182
202.500	.1028	.1028
225.000	.3484	.3484
247.500	.2341	.2341
270.000	.0963	.0963
292.500	.0635	.0635
315.000	.0312	.0312
337.500	.0000	.0000
360.000	.0074	.0074

TABULATED SOURCE DATA, MSFC TMT 087 (1A32F)

(R825C1)

DATE 03 SEP 75

MSFC 087(1A32F) TO 93/2 93/2 03 SRH CONE

PSA = 12.985

RL = 6.2778

PTA = 22.007

Q = 7.3809

ALPHA (0) = .000

Q = .000

PSA = 12.985

DEPENDENT VARIABLE CP

SECTION (1) SRH 0005 CONE

X/LS	PHI	ALPHA (0)
.0433	.0722	.1013
.2748	.1862	.0074
.2507	.1786	.0011
.2414	.1669	-.0141
.67.500	.0137	-.0137
.90.000	.1623	-.0080
112.500	-.0024	-.0024
135.000	.1769	.0065
.2894	.2007	.0123
160.000	.3315	.0274
.3583	.2631	.0481
202.500	.3917	.0763
247.500	.2118	.2118
270.000	.4225	.4225
292.500	.1687	.1687
315.000	.0432	.0432
337.500	.0282	.0282
360.000	.0074	.0074

MSFC 567(1A32F) 19 53/2 53/2 03 SRM CONE (R825C11)

MACH (2) = .900 ALPHA (7) = 5.000 Q = 7.3909 PTA = 22.007 RL = 6.2776 PSA = 12.965

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.1813	.1078	-.0600
22.500	.1708	.1055	-.0559
45.000	.1719	.1036	-.0584
67.500		-.0521	
90.000	.1950	.1192	-.0449
112.500		-.0182	
135.000	.2899	.2075	.0176
157.500	.3346	.2520	.0483
180.000	.4113	.3026	.0867
202.500	.4476	.3539	.1139
225.000	.4622	.4095	.1713
247.500		.2887	
270.000	.3799	.3825	.3189
292.500		-.0174	
315.000	.2340	.1448	-.0905
337.500	.2067	.1235	-.0610
360.000	.1813	.1078	-.0600

MACH (2) = .900 ALPHA (8) = 6.000 Q = 7.3909 PTA = 22.007 RL = 6.2776 PSA = 12.965

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.0910	.0233	-.1246
22.500	.0677	.0263	-.1130
45.000	.0720	.0143	-.1160
67.500		-.1181	
90.000	.1095	.0530	-.1071
112.500		-.0480	
135.000	.2950	.2052	.0240
157.500	.4069	.2985	.0755
180.000	.4966	.3788	.1366
202.500	.5329	.4405	.1846
225.000	.5210	.4764	.2499
247.500		.3339	
270.000	.2825	.2820	.2022
292.500		-.3036	
315.000	.0774	-.0191	-.2599
337.500	.0795	-.0033	-.1518
360.000	.0910	.0233	-.1246

TABLATED SOURCE DATA, MSFC INT 567 (1A32F)

(R825C11)

DATE 08 SEP 73

MSFC 567(1A32F) TB 53/2 53/2 03 SRM CONE

MACH (2) = .900 ALPHA (9) = 10.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/L/S	.0433	.0722	.1013
PH1			
.000	.0300	-.0370	-.1851
22.500	.0165	-.0438	-.1657
45.000	-.0050	-.0601	-.1787
67.500		-.1847	
90.000	.0332	-.0118	-.1559
112.500		-.1015	
135.000	.2725	.1784	-.0034
157.500	.4287	.3164	.0656
180.000	.5392	.4158	.1802
202.500	.5816	.4926	.2259
225.000	.5428	.5077	.2820
247.500		.3410	
270.000	.2929	.1824	.0969
292.500		-.5368	
315.000	-.0427	-.1684	-.3834
337.500	-.0102	-.0574	-.2148
360.000	.0300	-.0370	-.1651

MACH (3) = 1.050 ALPHA (1) = -10.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.982

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/L/S	.0433	.0722	.1013
PH1			
.000	.7514	.6533	.4211
22.500	.6234	.5140	.3100
45.000	.4487	.3533	.1831
67.500		.0697	
90.000	.1557	.1080	-.0068
112.500		-.0278	
135.000	.1182	.0883	-.0293
157.500	.1509	.0768	-.0159
180.000	.1451	.0634	-.0484
202.500	.0885	.0202	-.1406
225.000	.0353	-.1405	-.3896
247.500		-.8184	
270.000	.2679	.1885	.1589
292.500		.5484	
315.000	.6884	.7243	.5498
337.500	.7903	.7388	.5218
360.000	.7514	.6533	.4211

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DATE 05 SEP 75

TABULATED SOURCE DATA, MSFC TNT 567 (11A32F)

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MSFC 567(11A32F) T9 53/2 53/2 03 SRM CONE (R825C11)

MACH (3) = 1.050 ALPHA (2) = -8.000 0 = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.352

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PH1			
000	.7006	.6059	.3905
22.500	.5976	.4938	.2882
45.000	.4659	.3766	.2071
67.500		.1189	
90.000	.2388	.1828	.0680
112.500		.0512	
135.000	.1912	.1325	.0408
157.500	.2151	.1428	.0402
180.000	.2092	.1341	.0188
202.500	.1732	.0907	-.0499
225.000	.1477	.0132	-.2168
247.500		-.3867	
270.000	.3080	.2583	.2373
292.500		.5356	
315.000	.6687	.6834	.5023
337.500	.7372	.6840	.4651
360.000	.7026	.6059	.3905

MACH (3) = 1.050 ALPHA (3) = -5.000 0 = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.352

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PH1			
.000	.6126	.5290	.3296
22.500	.5454	.4607	.2730
45.000	.4658	.3946	.2222
67.500		.1748	
90.000	.3345	.2724	.1439
112.500		.1165	
135.000	.2916	.2291	.1101
157.500	.2950	.2320	.1060
180.000	.2883	.2178	.0915
202.500	.2750	.1998	.0499
225.000	.2662	.1998	-.0213
247.500		-.0484	
270.000	.4253	.4368	.3655
292.500		.5057	
315.000	.6153	.6190	.4340
337.500	.6443	.5983	.4267
360.000	.6126	.5290	.3296

TABULATED SOURCE DATA, MSFC TMT 987 (1A38F)

DATE 05 SEP 75

MSFC 597(1A38F) TO 83/8 83/2 03 SRM CONE (RESECC1)

MACH (3) = 1.050 ALPHA (4) = -8.000 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.962

SECTION (1) SRM 8008 CONE DEPENDENT VARIABLE CP

X/LS .0433 .0782 .1013

PHI	.000	.0324	.4562	.8759
22.500	.4820	.4182	.2498	
45.000	.4591	.3825	.2253	
67.500			.1893	
90.000	.3004	.3288	.1928	
112.500			.1795	
135.000	.3765	.3094	.1720	
157.500	.3734	.3054	.1611	
180.000	.3638	.2954	.1561	
202.500	.3758	.3086	.1426	
225.000	.4021	.3328	.1319	
247.500			.1265	
270.000	.5081	.5370	.4882	
292.500			.4734	
315.000	.5898	.6512	.3578	
337.500	.5630	.5120	.3416	
360.000	.5324	.4562	.2759	

MACH (3) = 1.050 ALPHA (5) = .000 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.962

SECTION (1) SRM 8008 CONE DEPENDENT VARIABLE CP

X/LS .0433 .0782 .1013

PHI	.000	.4774	.4100	.2426
22.500	.4516	.3853	.2317	
45.000	.4400	.3755	.2175	
67.500			.2085	
90.000	.4191	.3514	.2017	
112.500			.2028	
135.000	.4212	.3478	.2035	
157.500	.4267	.3548	.2021	
180.000	.4220	.3538	.2036	
202.500	.4380	.3740	.2095	
225.000	.4654	.4187	.2172	
247.500			.3244	
270.000	.5387	.5712	.5273	
292.500			.4107	
315.000	.5293	.4886	.3000	
337.500	.5053	.4521	.2958	
360.000	.4774	.4100	.2455	

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MACH (3) = 1.050 ALPHA (6) = 2.000 0 = 8.4371 PTA = 22.007 RL = 8.5711 PSA = 10.992
MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM CONE (R62SC1)

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.4250	.3637	.2054
22.500	.4073	.3492	.2011
45.000	.4088	.3473	.1983
67.500			.1924
90.000	.4081	.3487	.2049
112.500			.2138
135.000	.4374	.3675	.2262
157.500	.4621	.3853	.2262
180.000	.4892	.4083	.2460
202.500	.4852	.4390	.2611
225.000	.5042	.4918	.2911
247.500			.4058
270.000	.5165	.5787	.5344
292.500			.3445
315.000	.4602	.4387	.2404
337.500	.4298	.3927	.2375
360.000	.4250	.3637	.2054

MACH (3) = 1.050 ALPHA (7) = 5.000 0 = 8.4371 PTA = 22.007 RL = 8.5711 PSA = 10.992

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.3289	.2753	.1361
22.500	.3217	.2751	.1464
45.000	.3219	.2705	.1428
67.500			.1462
90.000	.3514	.2845	.1666
112.500			.1897
135.000	.4522	.3853	.2300
157.500	.5085	.4274	.2527
180.000	.5418	.4757	.2956
202.500	.5562	.5177	.3224
225.000	.5526	.5554	.3698
247.500			.4711
270.000	.4576	.5163	.4728
292.500			.1576
315.000	.3395	.3037	.1042
337.500	.3157	.2850	.1471
360.000	.3289	.2753	.1361

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) TO 53/2 53/2 03 5PM CONE (R825C11)

MACH (3) = 1.050 ALPHA (0) = 0.000 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.002

DEPENDENT VARIABLE CP

SECTION (1) 5PM 800S CONE

X/LS .0433 .0722 .1013

PHI	.000	.2368	.1828	.0804
22.500	.2313	.1842	.0820	
45.000	.2184	.1759	.0819	
67.500		.0855		
90.000	.2640	.2289	.0983	
112.500		.1533		
135.000	.4500	.3743	.2234	
157.500	.5585	.4882	.2768	
180.000	.6253	.5427	.3389	
202.500	.6521	.6040	.3911	
225.000	.6200	.6200	.4382	
247.500	.3806	.4086	.5095	
270.000		.3503		
292.500		-.1403		
315.000	.2073	.1317	-.0892	
337.500	.2058	.1577	.0426	
360.000	.2369	.1629	.0664	

MACH (3) = 1.050 ALPHA (9) = 10.000 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.002

DEPENDENT VARIABLE CP

SECTION (1) 5PM 800S CONE

X/LS .0433 .0722 .1013

PHI	.000	.1755	.1158	.0157
22.500	.1853	.1118	.0250	
45.000	.1349	.1005	.0080	
67.500		.0129		
90.000	.1802	.1483	.0422	
112.500		.1001		
135.000	.4338	.3531	.2036	
157.500	.6778	.4810	.2680	
180.000	.6704	.5718	.3586	
202.500	.6884	.6359	.4143	
225.000	.6514	.6381	.4589	
247.500	.3284	.3102	.2783	
270.000		-.3635		
292.500	.1030	-.0204	-.2283	
315.000	.1241	.0563	-.0475	
337.500	.1755	.1158	.0157	

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DATE 05 SEP 75
TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM CONE (R82SC11)

MACH (4) = 1.250 ALPHA (1) = -10.000 Q = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM BOOS CONE
DEPENDENT VARIABLE CP

X/LS	PHI
.0433	.0722 .1013
.6597	.6935 .5192
.5584	.9438 .4286
.4034	.4013 .3144
.67300	.1888
.0693	.1534 .1056
112.500	.0493
135.000	.0187 .0720 .0308
157.500	.0519 .0843 .0235
180.000	.0716 .1007 .0129
202.500	.0445 .0470 .0644
225.000	.0168 -.0648 -.2990
247.500	-.3188
270.000	.2360 .3344 .3615
292.500	.6862
315.000	.6231 .7271 .6348
337.500	.6969 .7355 .6095
360.000	.6597 .6555 .5192

MACH (4) = 1.250 ALPHA (2) = -8.000 Q = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (2) SRM BOOS CONE
DEPENDENT VARIABLE CP

X/LS	PHI
.0433	.0722 .1013
.5797	.5947 .4871
.4978	.5115 .4204
.3745	.3953 .3346
.67500	.2424
.1374	.2035 .1794
112.500	.1354
135.000	.0415 .1313 .1076
157.500	.0781 .1289 .0872
180.000	.0757 .1327 .0782
202.500	.0843 .0943 .0115
225.000	.0882 .0428 -.1497
247.500	-.1659
270.000	.2910 .4133 .4325
292.500	.6560
315.000	.5774 .6915 .6016
337.500	.6161 .6772 .5624
360.000	.5797 .5947 .4871

TABLULATED SOURCE DATA, MSFC THT 567 (1A32F)

DATE 05 SEP 76

MSFC 567(1A32F) TO 53/2 53/2 03 SRM CONE (R825C1)

MACH (4) = 1.250 ALPHA (3) = -5.000 0 = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5 .0433 .0722 .1013

PHI	.000	.4748	.5235	.4428
22.500	.4029	.4612	.3983	
45.000	.3214	.3918	.3480	
67.500			.2690	
90.000	.1633	.2732	.2603	
112.500			.2266	
135.000	.0674	.2180	.2001	
157.500	.1134	.2046	.1738	
180.000	.1381	.1907	.1668	
202.500	.1939	.1867	.1306	
225.000	.2247	.2181	.0820	
247.500			.1071	
270.000	.3713	.5153	.5461	
292.500			.6382	
315.000	.4852	.6181	.5385	
337.500	.4987	.5886	.5162	
360.000	.4748	.5235	.4428	

MACH (4) = 1.250 ALPHA (4) = -2.000 0 = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5 .0433 .0722 .1013

PHI	.000	.3338	.4472	.3889
22.500	.2682	.4066	.3645	
45.000	.2321	.3735	.3431	
67.500			.3244	
90.000	.1628	.3022	.3134	
112.500			.2947	
135.000	.1390	.2695	.2762	
157.500	.1570	.2883	.2950	
180.000	.1584	.3016	.2932	
202.500	.2138	.3223	.2409	
225.000	.2787	.3710	.2392	
247.500			.3393	
270.000	.4383	.5926	.6260	
292.500			.5782	
315.000	.4381	.5298	.4585	
337.500	.4080	.5095	.4435	
360.000	.3338	.4472	.3889	

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TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MACH (4) = 1.250 ALPHA (5) = .000 Q = 8.2928 PTA = 22.006 RL = 6.6922 PSA = 8.4788
MSFC 567(1A32F) TO 53/2 53/2 03 SRM CONE (R82SC1)

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.2298	.3882	.3440
22.500	.1917	.3625	.3371
45.000	.1779	.3515	.3286
67.500		.3238	
90.000	.1560	.3110	.3177
112.500		.3155	
135.000	.1834	.3092	.3046
157.500	.2114	.3193	.3006
180.000	.2275	.3243	.3030
202.500	.2400	.3211	.3020
225.000	.2710	.4425	.3255
247.500		.4495	
270.000	.3411	.6093	.6502
292.500		.5043	
315.000	.3062	.4865	.3828
337.500	.2652	.4304	.3609
360.000	.2298	.3882	.3440

MACH (4) = 1.250 ALPHA (6) = 2.000 Q = 9.2928 PTA = 22.006 RL = 6.6922 PSA = 8.4788

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1201	.2956	.2806
22.500	.1086	.2828	.2822
45.000	.1011	.2597	.2809
67.500		.2899	
90.000	.1422	.2372	.3030
112.500		.3098	
135.000	.2148	.3028	.3138
157.500	.2610	.3526	.3168
180.000	.2838	.3995	.3400
202.500	.2875	.4443	.3536
225.000	.3105	.5086	.3992
247.500		.5303	
270.000	.2857	.5961	.6402
292.500		.4015	
315.000	.2028	.3665	.2911
337.500	.1738	.3487	.3000
360.000	.1201	.2956	.2806

TABLATED SOURCE DATA, MSFC THT 867 (1A38F)

(R225C11)

DATE 05 SEP 78

MSFC 867(1A38F) TO 83/2 83/2 03 SRM CONE

MACH (4) = 1.250 ALPHA (7) = 5.000 Q = 9.2028 PTA = 22.006 PL = 6.8822 PSA = 6.4788

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.1082	.1853	.1880
22.500	.0377	.1933	.2015
45.000	.0265	.1891	.1888
67.500		.2055	.2055
90.000	.1309	.2068	.2341
112.500		.2695	.2695
135.000	.2890	.3331	.3156
157.500	.3595	.3947	.3448
180.000	.4086	.4682	.3915
202.500	.4368	.5234	.4252
225.000	.4348	.5745	.4854
247.500	.3390	.5377	.6005
270.000		.5948	.5948
292.500	.1409	.6220	.1847
315.000	.1066	.6235	.1210
337.500	.1082	.1853	.1832
360.000	.1082	.1853	.1880

MACH (4) = 1.850 ALPHA (8) = 8.000 Q = 9.8028 PTA = 22.006 PL = 6.8822 PSA = 6.4788

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.0678	.1121	.0825
22.500	.0242	.1129	.1182
45.000	-.0098	.1092	.1181
67.500		.1290	.1290
90.000	.1057	.1823	.1885
112.500		.2387	.2387
135.000	.3462	.3675	.3156
157.500	.4638	.4853	.3772
180.000	.5358	.5496	.4424
202.500	.5592	.6138	.4838
225.000	.5256	.6408	.5493
247.500	.3089	.4785	.6386
270.000		.5099	.5099
292.500	.0933	.1150	-.0324
315.000	.0612	.1403	-.0678
337.500	.0875	.1121	.0687
360.000	.0875	.1121	.0825

TABLATED SOURCE DATA, MSFC INT 567 (1A32F)

MSFC 567(1A32F) 19 53/2 53/2 03 SRM CONE (R825C1)

MACH (4) = 1.250 ALPHA (9) = 10.000 0 = 9.2926 PTA = 22.008 RL = 6.6822 PEA = 6.4768

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.0289	.0824	.0278
22.500	-.0079	.0589	.0506
45.000	-.0474	.0307	.0481
67.500			.0528
90.000	.0703	.0998	.1036
112.500			.1832
135.000	.3858	.3982	.3026
157.500	.5111	.4924	.3892
180.000	.6105	.5950	.4659
202.500	.6385	.6589	.5215
225.000	.5951	.6733	.5763
247.500			.6431
270.000	.2966	.4186	.4573
292.500			-.1794
315.000	.0434	.0100	-.2052
337.500	.0321	.0842	-.0190
360.000	.0265	.0624	.0278

MACH (5) = 1.480 ALPHA (1) = -10.000 0 = 9.4738 PTA = 22.008 RL = 6.5300 PSA = 6.3619

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.5994	.6368	.6031
22.500	.5084	.5406	.5202
45.000	.3801	.4165	.4075
67.500			.2751
90.000	.1268	.1942	.1714
112.500			.0959
135.000	-.0094	.0387	.0799
157.500	-.0094	.0423	.0958
180.000	-.0029	.0750	.0862
202.500	-.0001	.0883	.0258
225.000	-.0029	.0848	-.1311
247.500			-.0510
270.000	.2343	.4712	.5811
292.500			.8012
315.000	.5718	.7277	.7284
337.500	.6248	.7328	.6946
360.000	.5994	.6368	.6031

TAFATED SOURCE DATA, MSFC TNT 967 (1132F)

DATE 05 SEP 75

(RRESC11)

MSFC 967(1132F) TO 53/2 53/2 03 SRM CONE

MACH (5) = 1.460 ALPHA (2) = -6.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.4873	.5844	.5673
22.500	.4026	.4953	.4988
45.000	.3081	.3987	.4046
67.500			.3054
90.000	.1303	.1752	.1993
112.500			.1457
135.000	.0345	.0618	.1391
157.500	.0097	.0685	.1567
180.000	.0037	.1217	.1376
202.500	.0060	.1644	.0668
225.000	.0188	.1608	-.0052
247.500			.0751
270.000	.1865	.5345	.6333
292.500			.7697
315.000	.4232	.6665	.6975
337.500	.4889	.6726	.6497
360.000	.4673	.5844	.5673

MACH (5) = 1.460 ALPHA (3) = -5.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM 8006 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.3148	.5333	.5124
22.500	.2848	.4102	.4243
45.000	.2438	.3267	.3816
67.500			.3091
90.000	.1535	.1919	.2360
112.500			.1927
135.000	.0813	.1166	.1670
157.500	.0617	.1164	.2160
180.000	.0719	.1849	.2029
202.500	.0735	.2624	.1818
225.000	.0965	.3011	.1733
247.500			.2757
270.000	.2216	.5839	.6892
292.500			.7399
315.000	.3124	.6439	.6170
337.500	.3412	.5693	.5648
360.000	.3148	.5333	.5124

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TABULATED SOURCE DATA, MSFC THT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM CONE (RB2SC1)

MACH (5) = 1.460 ALPHA (4) = -2.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.2133	.3705	.4290
22.500	.2053	.2987	.3905
45.000	.1964	.2609	.3369
67.500		.2685	
90.000	.1738	.2024	.2269
112.500		.2217	
135.000	.1308	.1681	.2473
157.500	.1143	.1748	.2642
180.000	.1293	.2134	.2859
202.500	.1392	.3306	.3020
225.000	.1943	.4639	.3279
247.500		.4632	
270.000	.2144	.6725	.7509
292.500		.6730	
315.000	.2376	.6055	.5247
337.500	.2318	.5330	.4709
360.000	.2133	.3705	.4290

MACH (5) = 1.460 ALPHA (5) = .000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.1687	.3148	.3625
22.500	.1666	.2405	.3467
45.000	.1800	.2143	.3041
67.500		.2469	
90.000	.1915	.1997	.2401
112.500		.2442	
135.000	.1750	.2138	.2921
157.500	.1650	.2364	.3340
180.000	.1691	.2638	.3532
202.500	.1964	.3220	.3775
225.000	.2015	.5111	.4246
247.500		.5611	
270.000	.2145	.7011	.7655
292.500		.6589	
315.000	.2160	.5528	.4522
337.500	.2152	.3904	.4129
360.000	.1687	.3148	.3695

TABLATED SOURCE DATA, MFC TMT 967 (1A32F)

DATE 08 SEP 75

MFC 667(1A32F) TO 63/2 63/2 03 SRM CONE (R62SC1)

MACH (5) = 1.486 ALPHA (6) = 2.000 Q = 9.4738 PTA = 22.008 RL = 6.5300 PSA = 8.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM 8008 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.1207	.2622	.5038
22.500	.1154	.1849	.2660
45.000	.1330	.1722	.2572
67.500		.2192	
90.000	.1787	.2004	.2233
112.500		.2592	
135.000	.1975	.2481	.3171
157.500	.2041	.2850	.3773
180.000	.2380	.3136	.4083
202.500	.2484	.3718	.4411
225.000	.2513	.5820	.4983
247.500		.6424	
270.000	.2253	.6946	.7718
292.500		.5239	
315.000	.1682	.5021	.3687
337.500	.514	.3572	.3430
360.000	.1207	.2622	.3038

MACH (5) = 1.480 ALPHA (7) = 5.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 8.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.0250	.1640	.2252
22.500	.0481	.1187	.2281
45.000	.0748	.1191	.2000
67.500		.1811	
90.000	.1505	.1905	.2207
112.500		.2888	
135.000	.2382	.3210	.3601
157.500	.2748	.3948	.4214
180.000	.3444	.4348	.4820
202.500	.3507	.5055	.5239
225.000	.3311	.6888	.5917
247.500		.7220	
270.000	.8111	.6384	.7350
292.500		.3458	
315.000	.1088	.3897	.2030
337.500	.0813	.2168	.2322
360.000	.0250	.1640	.2252

TABLULATED SOURCE DATA, MSFC TMT 967 (1A32F)

MSFC 967(1A32F) TO 53/E 53/2 03 SRM CONE (R825C11)

MACH (5) = 1.480 ALPHA (8) = 8.000 Q = 9.4738 PTA = 22.009 PL = 6.5300 PSA = 8.3619

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	-.0181	.1788	.1347
22.500	-.0024	.1008	.1508
45.000	.0273	.0698	.1327
67.500		.1107	
90.000	.1266	.1782	.1768
112.500		.2760	
135.000	.2819	.3922	.3804
157.500	.3838	.4907	.4580
180.000	.4410	.5745	.5361
202.500	.4444	.6313	.5913
225.000	.4044	.6717	.6611
247.500		.7701	
270.000	.1983	.5948	.6848
292.500		.1693	
315.000	.0400	.2477	.0466
337.500	.0343	.2040	.1228
360.000	-.0191	.1788	.1347

MACH (5) = 1.480 ALPHA (8) = 10.000 Q = 9.4738 PTA = 22.009 PL = 6.5300 PSA = 8.3619

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.300	.0118	.1330	.0981
22.500	-.0258	.0682	.1186
45.000	-.0072	.0258	.0833
67.500		.0596	
90.000	.1164	.1531	.1277
112.500		.2478	
135.000	.3385	.4157	.3708
157.500	.4569	.5385	.4757
180.000	.5303	.6244	.5668
202.500	.5930	.6878	.6301
225.000	.5298	.7084	.6905
247.500		.7840	
270.000	.2782	.5437	.6485
292.500		.0404	
315.000	.0257	.1392	-.0828
337.500	.0311	.1359	.0413
360.000	.0118	.1330	.0991

TABLATED SOURCE DATA, MSFC TMT 087 (1A32F)

DATE 05 SEP 76

MSFC 987(1A32F) TO 53/2 53/2 03 SRM CONE (RSESC11)

MACH (8) = 1.842 ALPHA (1) = -6.000 0 = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.8678

DEPENDENT VARIABLE CP

SECTION (1) SRM 8006 CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.3036	.4476	.5227
22.500	.3679	.3686	.4339
45.000	.3106	.3361	.3534
67.500		.2953	
90.000	.1801	.1863	.1834
112.500		.1373	
135.000	.1048	.0919	.0998
157.500	.0724	.0709	.0747
180.000	.0529	.0671	.1134
202.500	.0446	.0675	.1621
225.000	.0420	.0959	.2080
247.500		.3828	
270.000	.1820	.2491	.9412
292.500		1.0454	
315.000	.3243	.4965	.9049
337.500	.3888	.5103	.6975
360.000	.3938	.4476	.5227

MACH (6) = 1.860 ALPHA (2) = -5.000 0 = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.8678

DEPENDENT VARIABLE CP

SECTION (1) SRM 8006 CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.3088	.3446	.3882
22.500	.2982	.3177	.3417
45.000	.2666	.2823	.2920
67.500		.2524	
90.000	.2087	.2068	.2161
112.500		.1750	
135.000	.1950	.1423	.1363
157.500	.1213	.1175	.1228
180.000	.0929	.1071	.1632
202.500	.0745	.1123	.2682
225.000	.0741	.1360	.3439
247.500		.5370	
270.000	.1453	.3426	.6705
292.500		.9808	
315.000	.2483	.3985	.7845
337.500	.2939	.3726	.5611
360.000	.3058	.3446	.3982

TABULATED SOURCE DATA, MSFC TMT 587 (1A32F)

(R825C1)

MSFC 587(1A32F) T8 53/2 53/2 03 S 4 CONE

MACH (6) = 1.960 ALPHA (3) = -2.000 Q = 10.290 PTA = 27.998 PSA = 3.8678

DEPENDENT VARIABLE CP

SECTION 1115PM 8005 CONE

X/LS	.0433	.0722	.1013
PHI	.000	.2199	.2523
	.2256	.2439	.2327
	.2104	.2126	.2130
	.2033	.1802	.1666
	.1650	.1529	.1793
	.1428	.1703	.2015
	.1237	.1797	.3361
	.1244	.2135	.5289
	.1572	.2979	1.0336
	.1844	.2844	.6941
	.2060	.2513	.5234
	.2199	.2523	.2929

MACH (6) = 1.960 ALPHA (4) = .000 Q = 10.290 PTA = 27.998 PSA = 3.8678

DEPENDENT VARIABLE CP

SECTION 1115PM 8005 CONE

X/LS	.0433	.0722	.1013
PHI	.000	.1753	.1956
	.1960	.1960	.2160
	.2031	.2076	.2042
	.2096	.2224	.2096
	.2096	.2057	.2139
	.2064	.1951	.2271
	.1980	.1999	.2523
	.1771	.2211	.3784
	.1625	.2607	.5975
	.1510	.3059	1.0484
	.1502	.2605	.6123
	.1611	.2266	.4751
	.1753	.1956	.2310

TABULATED SOURCE DATA, MSFC TMT 567 (1A3ZF)

MACH (6) = 1.960 ALPHA (6) = 2.000 0 - 10.260 PTA = 27.998 RL = 7.0968 PSA = 3.6678
 MSFC 567(1A3ZF) T8 S3/2 S3/2 03 SRH CONE (R2SC1)

SECTION (1) 567 8005 CONE DEPENDENT VARIABLE CP

X/LS	PHI
.000	.1369
.000	.1488
.000	.1659
.000	.1821
.000	.1983
.000	.2145
.000	.2307
.000	.2469
.000	.2631
.000	.2793
.000	.2955
.000	.3117
.000	.3279
.000	.3441
.000	.3603
.000	.3765
.000	.3927
.000	.4089
.000	.4251
.000	.4413
.000	.4575
.000	.4737
.000	.4899
.000	.5061
.000	.5223
.000	.5385
.000	.5547
.000	.5709
.000	.5871
.000	.6033
.000	.6195
.000	.6357
.000	.6519
.000	.6681
.000	.6843
.000	.7005
.000	.7167
.000	.7329
.000	.7491
.000	.7653
.000	.7815
.000	.7977
.000	.8139
.000	.8301
.000	.8463
.000	.8625
.000	.8787
.000	.8949
.000	.9111
.000	.9273
.000	.9435
.000	.9597
.000	.9759
.000	.9921
.000	1.0083
.000	1.0245
.000	1.0407
.000	1.0569
.000	1.0731
.000	1.0893
.000	1.1055
.000	1.1217
.000	1.1379
.000	1.1541
.000	1.1703
.000	1.1865
.000	1.2027
.000	1.2189
.000	1.2351
.000	1.2513
.000	1.2675
.000	1.2837
.000	1.2999
.000	1.3161
.000	1.3323
.000	1.3485
.000	1.3647
.000	1.3809
.000	1.3971
.000	1.4133
.000	1.4295
.000	1.4457
.000	1.4619
.000	1.4781
.000	1.4943
.000	1.5105
.000	1.5267
.000	1.5429
.000	1.5591
.000	1.5753
.000	1.5915
.000	1.6077
.000	1.6239
.000	1.6401
.000	1.6563
.000	1.6725
.000	1.6887
.000	1.7049
.000	1.7211
.000	1.7373
.000	1.7535
.000	1.7697
.000	1.7859
.000	1.8021
.000	1.8183
.000	1.8345
.000	1.8507
.000	1.8669
.000	1.8831
.000	1.8993
.000	1.9155
.000	1.9317
.000	1.9479
.000	1.9641
.000	1.9803
.000	1.9965
.000	2.0127
.000	2.0289
.000	2.0451
.000	2.0613
.000	2.0775
.000	2.0937
.000	2.1099
.000	2.1261
.000	2.1423
.000	2.1585
.000	2.1747
.000	2.1909
.000	2.2071
.000	2.2233
.000	2.2395
.000	2.2557
.000	2.2719
.000	2.2881
.000	2.3043
.000	2.3205
.000	2.3367
.000	2.3529
.000	2.3691
.000	2.3853
.000	2.4015
.000	2.4177
.000	2.4339
.000	2.4501
.000	2.4663
.000	2.4825
.000	2.4987
.000	2.5149
.000	2.5311
.000	2.5473
.000	2.5635
.000	2.5797
.000	2.5959
.000	2.6121
.000	2.6283
.000	2.6445
.000	2.6607
.000	2.6769
.000	2.6931
.000	2.7093
.000	2.7255
.000	2.7417
.000	2.7579
.000	2.7741
.000	2.7903
.000	2.8065
.000	2.8227
.000	2.8389
.000	2.8551
.000	2.8713
.000	2.8875
.000	2.9037
.000	2.9199
.000	2.9361
.000	2.9523
.000	2.9685
.000	2.9847
.000	3.0009
.000	3.0171
.000	3.0333
.000	3.0495
.000	3.0657
.000	3.0819
.000	3.0981
.000	3.1143
.000	3.1305
.000	3.1467
.000	3.1629
.000	3.1791
.000	3.1953
.000	3.2115
.000	3.2277
.000	3.2439
.000	3.2601
.000	3.2763
.000	3.2925
.000	3.3087
.000	3.3249
.000	3.3411
.000	3.3573
.000	3.3735
.000	3.3897
.000	3.4059
.000	3.4221
.000	3.4383
.000	3.4545
.000	3.4707
.000	3.4869
.000	3.5031
.000	3.5193
.000	3.5355
.000	3.5517
.000	3.5679
.000	3.5841
.000	3.6003
.000	3.6165
.000	3.6327
.000	3.6489
.000	3.6651
.000	3.6813
.000	3.6975
.000	3.7137
.000	3.7299
.000	3.7461
.000	3.7623
.000	3.7785
.000	3.7947
.000	3.8109
.000	3.8271
.000	3.8433
.000	3.8595
.000	3.8757
.000	3.8919
.000	3.9081
.000	3.9243
.000	3.9405
.000	3.9567
.000	3.9729
.000	3.9891
.000	4.0053
.000	4.0215
.000	4.0377
.000	4.0539
.000	4.0701
.000	4.0863
.000	4.1025
.000	4.1187
.000	4.1349
.000	4.1511
.000	4.1673
.000	4.1835
.000	4.1997
.000	4.2159
.000	4.2321
.000	4.2483
.000	4.2645
.000	4.2807
.000	4.2969
.000	4.3131
.000	4.3293
.000	4.3455
.000	4.3617
.000	4.3779
.000	4.3941
.000	4.4103
.000	4.4265
.000	4.4427
.000	4.4589
.000	4.4751
.000	4.4913
.000	4.5075
.000	4.5237
.000	4.5399
.000	4.5561
.000	4.5723
.000	4.5885
.000	4.6047
.000	4.6209
.000	4.6371
.000	4.6533
.000	4.6695
.000	4.6857
.000	4.7019
.000	4.7181
.000	4.7343
.000	4.7505
.000	4.7667
.000	4.7829
.000	4.7991
.000	4.8153
.000	4.8315
.000	4.8477
.000	4.8639
.000	4.8801
.000	4.8963
.000	4.9125
.000	4.9287
.000	4.9449
.000	4.9611
.000	4.9773
.000	4.9935
.000	5.0097
.000	5.0259
.000	5.0421
.000	5.0583
.000	5.0745
.000	5.0907
.000	5.1069
.000	5.1231
.000	5.1393
.000	5.1555
.000	5.1717
.000	5.1879
.000	5.2041
.000	5.2203
.000	5.2365
.000	5.2527
.000	5.2689
.000	5.2851
.000	5.3013
.000	5.3175
.000	5.3337
.000	5.3499
.000	5.3661
.000	5.3823
.000	5.3985
.000	5.4147
.000	5.4309
.000	5.4471
.000	5.4633
.000	5.4795
.000	5.4957
.000	5.5119
.000	5.5281
.000	5.5443
.000	5.5605
.000	5.5767
.000	5.5929
.000	5.6091
.000	5.6253
.000	5.6415
.000	5.6577
.000	5.6739
.000	5.6901
.000	5.7063
.000	5.7225
.000	5.7387
.000	5.7549
.000	5.7711
.000	5.7873
.000	5.8035
.000	5.8197
.000	5.8359
.000	5.8521
.000	5.8683
.000	5.8845
.000	5.9007
.000	5.9169
.000	5.9331
.000	5.9493
.000	5.9655
.000	5.9817
.000	5.9979
.000	6.0141
.000	6.0303
.000	6.0465
.000	6.0627
.000	6.0789
.000	6.0951
.000	6.1113
.000	6.1275
.000	6.1437
.000	6.1599
.000	6.1761
.000	6.1923
.000	6.2085
.000	6.2247
.000	6.2409
.000	6.2571
.000	6.2733
.000	6.2895
.000	6.3057
.000	6.3219
.000	6.3381
.000	6.3543
.000	6.3705
.000	6.3867
.000	6.4029
.000	6.4191
.000	6.4353
.000	6.4515
.000	6.4677
.000	6.4839
.000	6.5001
.000	6.5163
.000	6.5325
.000	6.5487
.000	6.5649
.000	6.5811
.000	6.5973
.000	6.6135
.000	6.6297
.000	6.6459
.000	6.6621
.000	6.6783
.000	6.6945
.000	6.7107
.000	6.7269
.000	6.7431
.000	6.7593
.000	6.7755
.000	6.7917
.000	6.8079
.000	6.8241
.000	6.8403
.000	6.8565
.000	6.8727
.000	6.8889
.000	6.9051
.000	6.9213
.000	6.9375
.000	6.9537
.000	6.9699
.000	6.9861
.000	7.0023
.000	7.0185
.000	7.0347
.000	7.0509
.000	7.0671
.000	7.0833
.000	7.0995
.000	7.1157
.000	7.1319
.000	7.1481
.000	7.1643
.000	7.1805
.000	7.1967
.000	7.2129
.000	7.2291
.000	7.2453
.000	7.2615
.000	7.2777
.000	7.2939
.000	7.3101
.000	7.3263
.000	7.3425
.000	7.3587
.000	7.3749
.000	7.3911
.000	7.4073
.000	7.4235
.000	7.4397
.000	7.4559
.000	7.4721
.000	7.4883
.000	7.5045
.000	7.5207
.000	7.5369
.000	7.5531
.000	7.5693
.000	7.5855
.000	7.6017
.000	7.6179
.000	7.6341
.000	7.6503
.000	7.6665
.000	7.6827
.000	7.6989
.000	7.7151
.000	7.7313
.000	7.7475
.000	7.7637
.000	7.7799
.000	7.7961
.000	7.8123
.000	7.8285
.000	7.8447
.000	7.8609
.000	7.8771
.000	7.8933
.000	7.9095
.000	7.9257
.000	7.9419
.000	7.9581
.000	7.9743
.000	7.9905
.000	8.0067
.000	8.0229
.000	8.0391
.000	8.0553
.000	8.0715
.000	8.0877
.000	8.1039
.000	8.1201
.000	8.1363
.000	8.1525
.000	8.1687
.000	8.1849
.000	8.2011
.000	8.2173
.000	8.2335
.000	8.2497
.000	8.2659
.000	8.2821
.00	

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(RB2SC1)

MSFC 567(1A32F) TO 53/2 53/2 03 SRH CONE

MACH (5) = 1.960 ALPHA (7) = 8.000 Q = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.6676

DEPENDENT VARIABLE CP

SECTION (1) SRH 8008 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.0372	.0552	.1344
22.500	.0646	.0537	.0729
45.000	.1032	.0814	.0886
67.500		.1296	
90.000	.1762	.1816	.1816
112.500		.2572	
135.000	.3155	.3319	.3424
157.500	.3749	.3926	.4369
180.000	.4140	.4548	.5295
202.500	.3940	.4771	.6776
225.000	.3335	.4681	.6960
247.500		1.0386	
270.000	.2151	.2906	.9855
292.500		.4478	
315.000	.0725	.1115	.2378
337.500	.0571	.0796	.1753
360.000	.0372	.0552	.1344

MACH (7) = 2.996 ALPHA (1) = -8.000 Q = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

DEPENDENT VARIABLE CP

SECTION (1) SRH 8008 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.4108	.3754	.3687
22.500	.3664	.3541	.3489
45.000	.2938	.2842	.2857
67.500		.2262	
90.000	.1690	.1705	.1750
112.500		.1366	
135.000	.1130	.1044	.1052
157.500	.0959	.0806	.0688
180.000	.0822	.0517	.0368
202.500	.0740	.0468	.0450
225.000	.0666	.0513	.0871
247.500		.2439	
270.000	.1321	.1884	.7728
292.500		.4026	
315.000	.2990	.2811	.4543
337.500	.3892	.3474	.3847
360.000	.4108	.3754	.3687

TABULATED SOURCE DATA, MSFC TNT 867 (1A32F)

(R825C11)

MSFC 867(1A32F) T9 S3/2 S3/2 03 SRM CONE

MACH (7) = 2.900 ALPHA (2) = -8.000 0 = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.3268	.2949	.2626
22.500	.3001	.2690	.2330
45.000	.2536	.2339	.2035
67.500	.1767	.1634	.1470
90.000	.1102	.1029	.0968
112.500	.0731	.0704	.0680
135.000	.0511	.0494	.0476
157.500	.0381	.0364	.0346
180.000	.0291	.0274	.0256
202.500	.0229	.0212	.0194
225.000	.0189	.0172	.0154
247.500	.0159	.0142	.0124
270.000	.0139	.0122	.0104
292.500	.0119	.0102	.0084
315.000	.0099	.0082	.0064
337.500	.0079	.0062	.0044
360.000	.0059	.0042	.0024

MACH (7) = 2.900 ALPHA (3) = -2.000 0 = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.2491	.2174	.2032
22.500	.2371	.2237	.2177
45.000	.2185	.2140	.2111
67.500	.1847	.1895	.2002
90.000	.1367	.1695	.1910
112.500	.0904	.1612	.1767
135.000	.0667	.1529	.1642
157.500	.0531	.1407	.1447
180.000	.0426	.1145	.1283
202.500	.0342	.1139	.1228
225.000	.0288	.1075	.1163
247.500	.0259	.1003	.1098
270.000	.0249	.0919	.0998
292.500	.0249	.0819	.0865
315.000	.0249	.0719	.0711
337.500	.0249	.0619	.0532
360.000	.0249	.0519	.0432

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(RB2SC1)

MSFC 567(1A32F) 19 53/2 53/2 03 SRM CONE

MACH (7) = 2.990 ALPHA (4) = .000 Q = 5.1894 PTA = 30.018 RL = 4.1168 PSA = .62971

DEPENDENT VARIABLE CP

SECTION (1) SRM 6005 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.2029	.1683	.1522
22.500	.1946	.1793	.1678
45.000	.1917	.1873	.1767
67.500		.1839	.1839
90.000	.1854	.1884	.1832
112.500			.1820
135.000	.1843	.1791	.1791
157.500	.1862	.1835	.1724
180.000	.2130	.1776	.1563
202.500	.2022	.1478	.1604
225.000	.1778	.1400	.1977
247.500			.2320
270.000	.1422	.1876	.6290
292.500			.2487
315.000	.1689	.1361	.2144
337.500	.1984	.1455	.1693
360.000	.2029	.1683	.1522

MACH (7) = 2.990 ALPHA (5) = 2.000 Q = 5.1894 PTA = 30.018 RL = 4.1168 PSA = .62971

DEPENDENT VARIABLE CP

SECTION (1) SRM 6005 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.1668	.1359	.1264
22.500	.1698	.1560	.1403
45.000	.1745	.1685	.1577
67.500		.1704	.1704
90.000	.1869	.1910	.1820
112.500			.1991
135.000	.2069	.2043	.2021
157.500	.2335	.2208	.2096
180.000	.2595	.2226	.2014
202.500	.2491	.1925	.2022
225.000	.2167	.1724	.2443
247.500			.2804
270.000	.1481	.1966	.6413
292.500			.2264
315.000	.1452	.1243	.1895
337.500	.1657	.1187	.1370
360.000	.1668	.1359	.1284

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM CONE (R82SC1)

MACH (7) = 2.880 ALPHA (6) = 5.000 0 = 5.1884 PTA = 30.018 RL = 4.1186 PSA = .82871

SECTION (1) SRM 8008 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1105	.0948	.0823
22.500	.1227	.1111	.1026
45.000	.1354	.1246	.1206
67.500	.1547	.1547	.1547
90.000	.1771	.1620	.1793
112.500	.2069	.2069	.2069
135.000	.2371	.2424	.2424
157.500	.2648	.2770	.2711
180.000	.2888	.2888	.2788
202.500	.3129	.2978	.2740
225.000	.3281	.2811	.2681
247.500	.3490	.2490	.2490
270.000	.3688	.1817	.1817
292.500	.3857	.2257	.2257
315.000	.4000	.0888	.1522
337.500	.4104	.0787	.0962
360.000	.4165	.0948	.0923

MACH (7) = 2.880 ALPHA (7) = 5.000 0 = 5.1884 PTA = 30.018 RL = 4.1186 PSA = .82871

SECTION (1) SRM 8008 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.0841	.0882	.0961
22.500	.0958	.0724	.0656
45.000	.1028	.1033	.0973
67.500	.1274	.1274	.1274
90.000	.1688	.1682	.1688
112.500	.2163	.2163	.2163
135.000	.2733	.2783	.2826
157.500	.3431	.3431	.3401
180.000	.4058	.3740	.3688
202.500	.4334	.3393	.3651
225.000	.4356	.2871	.4356
247.500	.4087	.4087	.4087
270.000	.3151	.2020	.2020
292.500	.3151	.3151	.3151
315.000	.0684	.0500	.1100
337.500	.0875	.0474	.0548
360.000	.0841	.0882	.0961

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TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM CONE (R825C1) MACH (8) = 3.500 ALPHA (1) = -8.000 0 = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.4324	.3914	.3718
22.500	.3838	.3697	.3639
45.000	.3011	.3018	.3055
67.500		.2351	
90.000	.1742	.1742	.1790
112.500		.1421	
135.000	.1215	.1100	.1116
157.500	.1100	.0903	.0761
180.000	.0954	.0560	.0453
202.500	.0903	.0535	.0504
225.000	.0920	.0545	.0795
247.500		.1248	
270.000	.1512	.1428	.4909
292.500		.3420	
315.000	.3268	.2764	.4090
337.500	.4186	.3519	.3553
360.000	.4324	.3914	.3718

MACH (8) = 3.500 ALPHA (2) = -5.000 0 = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.3454	.3116	.2869
22.500	.3136	.3013	.2825
45.000	.2625	.2608	.2612
67.500		.2206	
90.000	.1857	.1878	.1898
112.500		.1654	
135.000	.1495	.1404	.1390
157.500	.1424	.1279	.1130
180.000	.1377	.1035	.0809
202.500	.1350	.0839	.0805
225.000	.1316	.0822	.0920
247.500		.1509	
270.000	.1577	.1370	.4425
292.500		.3102	
315.000	.2778	.2162	.3072
337.500	.3400	.2737	.2690
360.000	.3454	.3116	.2869

DATE 05 SEP 75

TABLATED SOURCE DATA, NSFC TMT 567 (11A32F)

NSFC 587(11A32F) T9 53/2 53/2 03 SRM CONE (R82SC11)

MACH (0) = 3.500 ALPHA (3) = -2.000 0 = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI .000	.2678	.2344	.2142
22.500	.2636	.2348	.2169
45.000	.2483	.2358	.2287
67.500			.2209
90.000	.1029	.1438	.2060
112.500			.1829
135.000	.0125	.0418	.1834
157.500	.1708	.1538	.1692
180.000	.1644	.1025	.0040
202.500	.1827	.1506	.1298
225.000	.1783	.1242	.1215
247.500			.1387
270.000	.0829	.0626	.2023
292.500			.4269
315.000	-.0043	-.0530	.2859
337.500	.2273	.1987	.2311
360.000	.2878	.2344	.2142

MACH (0) = 3.560 ALPHA (4) = .000 0 = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI .000	.2184	.1363	.1809
22.500	.2067	.1935	.1810
45.000	.1872	.1935	.1878
67.500			.1895
90.000	.1878	.1908	.1878
112.500			.1873
135.000	.1900	.1848	.1859
157.500	.2052	.1910	.1812
180.000	.2238	.1900	.1812
202.500	.2207	.1608	.1501
225.000	.2028	.1376	.1768
247.500			.2205
270.000	.1860	.1656	.3459
292.500			.2461
315.000	.1937	.1305	.1898
337.500	.2231	.1595	.1612
360.000	.2184	.1863	.1809

UNCALCULATED SOURCE DATA, MEFC RUN 987 (1A38F)

DATE 05 SEP 78

MEFC 987(1A38F) TO SS/R SS/2 03 SEMI CORE (MREBCC1)

MACH (8) = 3.500 ALPHA (8) = 8.000 0 = 8.7173 PTA = 80.018 RL = 8.3300 PBA = .87800

SECTION (1) SEMI CORE CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1825	.1838	.1408
22.500	.1788	.1881	.1877
45.000	.1800	.1759	.1712
67.500	.1800	.1849	.1827
90.000	.1800	.1829	.1829
112.500	.2128	.2108	.2030
135.000	.2432	.2331	.2243
157.500	.2750	.2372	.2125
180.000	.2710	.2040	.1955
202.500	.2412	.1708	.2280
225.000	.2710	.2710	.2710
247.500	.1722	.1739	.3084
270.000	.1718	.1818	.1884
292.500	.1881	.1282	.1431
315.000	.1825	.1538	.1408

MACH (8) = 3.500 ALPHA (8) = 8.000 0 = 8.7173 PTA = 80.018 RL = 8.3300 PBA = .87800

SECTION (1) SEMI CORE CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1353	.1088	.0947
22.500	.1377	.1252	.1103
45.000	.1475	.1445	.1340
67.500	.1827	.1867	.1800
90.000	.1827	.1867	.1837
112.500	.2428	.2480	.2101
135.000	.3001	.2820	.2473
157.500	.3474	.3102	.2818
180.000	.3480	.2717	.2845
202.500	.2813	.2219	.2571
225.000	.1729	.1580	.2523
247.500	.1262	.0883	.3085
270.000	.1333	.0826	.4134
292.500	.1383	.1088	.1803
315.000	.1383	.1088	.1262
337.500	.1383	.1088	.0947
360.000	.1383	.1088	.0947

TABULATED SOURCE DATA, MFC TMT 867 (1A38F)

MFC 867(1A38F) TO 83/8 83/8 03 9PM CONE (R828C1)

MACH (8) = 3.800 ALPHA (7) = 8.000 Q = 0.7173 PFA = 50.018 PL = 8.3300 PSA = .87500

DEPENDENT VARIABLE CP

SECTION (1) 9PM 800S CONE

X/L8	.0433	.0782	.1813
Phi			
.000	.0944	.0680	.0534
28.500	.1035	.0849	.0731
45.000	.1167	.1123	.1008
67.500		.1367	
90.000	.1602	.1685	.1705
112.500		.2219	
135.000	.2781	.2642	.2893
157.500	.3654	.3563	.3485
180.000	.4286	.3867	.3891
202.500	.4219	.3444	.3451
225.000	.3451	.2808	.3013
247.500		.3326	
270.000	.1738	.1519	.4794
292.500		.1593	
315.000	.0720	.0497	.0978
337.500	.0683	.0404	.0568
360.000	.0544	.0680	.0524

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MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM CONE (RB2SC2) (24 APR 74)

REFERENCE DATA

SREF • 6.1980 IN. XWRP • 2.5490 IN.
 LREF • 5.3130 IN. YWRP • .9720 IN.
 BREF • 5.3130 IN. ZWRP • .0000 IN.
 SCALE • .0043 SCALE

PARAMETRIC DATA

ALPHA • .000 CONF19 • 90.800
 DELTAZ • .140 RUDDER • .000
 X-SRB • .000 CRB1NC • .500

MACH (1) • .600 BETA (1) • -10.000 Q • 4.3481 PTA • 22.007 RL • 4.9943 PSA • 17.251

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI	.000	.1191	-.1605
22.500	.2415	.1428	-.1364
45.000	.2714	.1762	-.1111
67.500	.2895	.1862	-.0914
90.000	.2895	.1862	-.0950
112.500	.2895	.1862	-.1249
135.000	.2177	.1087	-.1805
157.500	.1698	.0493	-.2525
180.000	.1419	.0154	-.2760
202.500	.1408	.0092	-.3126
225.000	.1590	.0334	-.3905
247.500	.2352	.2119	-.3182
270.000	.2352	.2119	-.0632
292.500	.2327	.1913	-.1181
315.000	.2200	.1208	-.1678
337.500	.2249	.1191	-.1605

MACH (2) • .600 BETA (2) • -8.000 Q • 4.3481 PTA • 22.007 RL • 4.9943 PSA • 17.251

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI	.000	.1178	-.1673
22.500	.2320	.1339	-.1517
45.000	.2494	.1530	-.1360
67.500	.2525	.1562	-.1273
90.000	.2525	.1562	-.1402
112.500	.2525	.1562	-.1543
135.000	.1992	.0903	-.1995
157.500	.1665	.0480	-.2548
180.000	.1405	.0108	-.2816
202.500	.1375	.0010	-.3166
225.000	.1560	.0250	-.3581
247.500	.2303	.2058	-.3220
270.000	.2303	.2058	-.0716

MSFC 56711A32F; 19 53/2 53/2 03 SRM CONE (R825C2)

MACH (1) = .600 BETA (2) = -.8.000

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5 .0433 .0722 .1013

PHI
292.500
315.000
337.500
360.000

-.1278
-.1688
-.1743
-.1673

MACH (1) = .600 BETA (3) = -.4.000 Q = 4.3481 PTA = 22.007 PL = 4.5943 PSA = 17.251

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5 .0433 .0722 .1013

PHI
.000
.2075
.2038
.2075
.67.500
90.000
112.500
135.000
157.500
180.000
202.500
225.000
247.500
270.000
292.500
315.000
337.500
360.000

.1011
.1007
.1039
-.1828
-.1991
-.2112
-.2330
-.2620
-.2902
-.3229
-.3595
-.3167
-.0825
-.1297
-.1888
-.1803
-.1888

MACH (1) = .600 BETA (4) = .000 Q = 4.3481 PTA = 22.007 PL = 4.5943 PSA = 17.251

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5 .0433 .0722 .1013

PHI
.000
.22.500
45.000
67.500
90.000
112.500
135.000
157.500

-.2063
-.2239
-.2442
-.2582
-.2638
-.2692
-.2749
-.2792

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(RSESC2)

MSFC 567(1A32F) T9 53/2 53/2 03 SRM CONE

DATE 09 SEP 75

MACH (1) = .600 BETA (4) = .000

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
Phi			
180.000	.1316	.0123	-.2873
202.500	.1489	.0256	-.3050
225.000	.1798	.0538	-.3411
247.500		-.3038	
270.000	.2797	.2356	-.0576
292.500			-.1212
315.000	.2781	.1823	-.1810
337.500	.2493	.1407	-.176E
360.000	.1952	.0867	-.2053

MACH (1) = .800 BETA (5) = 4.000 0 = 4.3481 PTA = 22.007 RL = 4.6943 PSA = 17.251

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
Phi			
.000	.1760	.0688	-.2304
22.500	.1290	.0231	-.2650
45.000	.0936	-.0062	-.2979
67.500			-.3157
90.000	.0758	-.0222	-.3198
112.500			-.3150
135.000	.0765	-.0284	-.3078
157.500	.0919	-.0160	-.3041
180.000	.1163	.0001	-.2955
202.500	.1330	.0341	-.2929
225.000	.1545	.0711	-.3200
247.500			-.2759
270.000	.3007	.2533	-.0454
292.500			-.1009
315.000	.2991	.2033	-.1653
337.500	.2586	.1455	-.1765
360.000	.1760	.0688	-.2304

TABLATED SOURCE DATA, MSFC THT 567 (11A32F)

MSFC 567(11A32F) T9 53/2 53/2 03 SRM COME (R62SC2)

DATE 09 SEP 75

MACH (1) = .800 BETA (6) = 4.3481 PTA = 22.007 RL = 4.9943 PSA = 17.251

SECTION (1) SRM 800S COME DEPENDENT VARIABLE CP

X/L5 .0433 .0722 .1013

PHI	.000	.1484	.0305	-.2509
22.500	.0772	-.0303	-.3164	
45.000	.0359	-.0660	-.3407	
67.500			-.3683	
90.000	.0834	-.0718	-.3983	
112.500			-.3914	
135.000	.0252	-.0768	-.3402	
157.500	.0522	-.0528	-.3278	
180.000	.0970	-.0180	-.3080	
202.500	.1457	.0347	-.2859	
225.000	.2154	.0983	-.2624	
247.500			-.2488	
270.000	.3297	.2781	-.0229	
292.500			-.0735	
315.000	.3349	.2401	-.1291	
337.500	.2722	.1625	-.1613	
360.000	.1454	.0395	-.2509	

MACH (1) = .600 BETA (7) = 10.000 Q = 4.3481 PTA = 22.007 RL = 4.9943 PSA = 17.251

SECTION (1) SRM 800S COME DEPENDENT VARIABLE CP

X/L5 .0433 .0722 .1013

PHI	.000	.1265	.0208	-.2644
22.500	.0561	-.0474	-.3347	
45.000	-.0243	-.0856	-.3844	
67.500			-.3780	
90.000	.0028	-.0658	-.3656	
112.500			-.3666	
135.000	.0064	-.0897	-.3531	
157.500	.0216	-.0681	-.3406	
180.000	.0921	-.0177	-.3096	
202.500	.1576	.0518	-.2651	
225.000	.2307	.1188	-.2572	
247.500			-.2244	
270.000	.3493	.2925	-.0096	
292.500			-.0588	
315.000	.3481	.2481	-.1187	
337.500	.2774	.1687	-.1618	
360.000	.1265	.0208	-.2644	

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TABULATED SOURCE DATA, MSFC INT 887 (1A38F)

IRB2522

MACH (2) = .900 BETA (1) = -10.000 Q = 7.366+ PTA = 22.00+ PL = 8 5-1+ PSA = 13.222

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.3095	.2240	.0169
22.500	.3219	.2405	.0433
45.000	.3520	.2716	.0641
67.500	.3759	.3033	.0881
90.000	.3950	.3358	.1125
112.500	.4114	.3684	.1373
135.000	.4250	.4011	.1625
157.500	.4358	.4338	.1881
180.000	.4439	.4665	.2141
202.500	.4492	.4992	.2405
225.000	.4518	.5319	.2673
247.500	.4518	.5646	.2945
270.000	.4492	.5973	.3221
292.500	.4439	.6300	.3501
315.000	.4358	.6627	.3785
337.500	.4250	.6954	.4073
360.000	.4114	.7281	.4365

MACH (2) = .900 UETA (2) = -8.000 Q = 7.366+ PTA = 22.00+ PL = 8 5-1+ PSA = 13.222

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.3157	.2316	.0264
22.500	.3243	.2443	.0460
45.000	.3387	.2632	.0668
67.500	.3503	.2800	.0861
90.000	.3583	.2966	.1024
112.500	.3627	.3131	.1166
135.000	.3635	.3296	.1287
157.500	.3608	.3461	.1387
180.000	.3548	.3626	.1465
202.500	.3457	.3791	.1521
225.000	.3335	.3956	.1555
247.500	.3183	.4121	.1567
270.000	.3011	.4286	.1557
292.500	.2820	.4451	.1525
315.000	.2609	.4616	.1471
337.500	.2380	.4781	.1395
360.000	.2143	.4946	.1297

TABULATED SOURCE DATA, 15°C TMT 567 (11432F)

MSFC 56711432F, 19 SS/2 SS/L ? SRM CONE (INSTRUMENT)

MACH (2) = .900 BETA (3) = -.4000 Q " 7.3664 PTA = 22.004 PL = 6.5414 PSA = 13.422

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.221	.2425	.0395
22.500	.3104	.2381	.0468
45.000	.3127	.2410	.0478
67.500			.0397
90.000	.2070	.2186	.0352
112.500			.0319
135.000	.2852	.2004	.0250
157.500	.2743	.1831	-.0003
180.000	.2575	.1577	-.0366
202.500	.2756	.1762	-.0388
225.000	.3027	.2178	-.0309
247.500			.0931
270.000	.3683	.4066	.3543
292.500			.2256
315.000	.3788	.3238	.0857
337.500	.3930	.2726	.0525
360.000	.3221	.2425	.0395

MACH (2) = .900 BETA (4) = .0000 Q " 7.3664 PTA = 22.004 PL = 6.5414 PSA = 13.022

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.3108	.2288	.0312
22.500	.2669	.1894	.0138
45.000	.2592	.1857	-.0080
67.500			-.0202
90.000	.2418	.1588	-.0224
112.500			-.0234
135.000	.2449	.1537	-.0207
157.500	.2440	.1490	-.0312
180.000	.2587	.1583	-.0338
202.500	.2651	.1881	-.0250
225.000	.3144	.2308	-.0182
247.500			.1028
270.000	.4087	.4188	.3484
292.500			.2341
315.000	.4014	.3405	.0883
337.500	.3683	.2871	.0535
360.000	.3108	.2288	.0312

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R825C2)

MSFC 567(1A32F) T9 S3/2 S3/2 O3 SRM CONE

MACH (2) = .900 BETA (5) = 4.000 0 = 7.3664 PTA = 22.004 RL = 6.5414 PSA = 13.022

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.3226	.2374	.0405
22.500	.2734	.1935	.0009
45.000	.2333	.1564	-.0233
67.500		-.0677	
90.000	.1858	.1130	-.0651
112.500		-.0551	
135.000	.1578	.1064	-.0619
157.500	.2106	.1164	-.0540
180.000	.2529	.1542	-.0300
202.500	.2834	.1948	-.0247
225.000	.3359	.2474	-.0012
247.500		.1048	
270.000	.4390	.4369	.3562
292.500		.2676	
315.000	.4446	.3875	.1428
337.500	.4070	.3256	.1046
360.000	.3226	.2374	.0405

MACH (2) = .900 BETA (6) = 8.000 0 = 7.3664 PTA = 22.004 RL = 6.5414 PSA = 13.022

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.3057	.2182	.0176
22.500	.2284	.1408	-.0463
45.000	.1745	.0987	-.0865
67.500		-.1065	
90.000	.1516	.0676	-.1044
112.500		-.0957	
135.000	.1549	.0635	-.1024
157.500	.1799	.0865	-.0871
180.000	.2338	.1407	-.0308
202.500	.2861	.2098	-.0032
225.000	.3422	.2611	.0168
247.500		.1058	
270.000	.4502	.4418	.3500
292.500		.2805	
315.000	.4749	.4205	.1754
337.500	.4231	.3468	.1297
360.000	.3057	.2182	.0176

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 SRM CONE (RB25C2)

MACH (2) = .900 BETA (7) = 10.000 Q = 7.3684 PTA = 22.004 RL = 6.5414 PSA = 13.022

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.2930	.2062	.0631
22.500	.2056	.1100	-.0730
45.000	.1480	.0672	-.1170
67.500	.1305	.0469	-.1239
90.000	.1327	.0422	-.1192
112.500	.1612	.0690	-.1058
135.000	.2145	.1185	-.0565
157.500	.2716	.1931	-.0225
180.000	.3388	.279	.0040
202.500	.4576	.4401	.3377
225.000	.4870	.4312	.2788
247.500	.4336	.3674	.1327
270.000	.2930	.2062	.0031

MACH (3) = 1.050 BETA (1) = -10.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.4341	.3703	.2146
22.500	.4487	.3895	.0871
45.000	.4788	.4188	.2878
67.500	.5008	.4577	.2985
90.000	.4508	.3809	.2384
112.500	.4117	.3413	.1949
135.000	.3925	.3147	.1581
157.500	.3919	.3200	.1541
180.000	.4144	.3844	.1711
202.500	.4810	.5282	.3094
225.000	.4242	.4248	.2348
247.500	.4248	.3774	.2089
270.000	.4241	.3703	.2146

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MACH (3) • 1.050 BETA (2) • -8.000 0 PTA • 8.4447 PTA • 22.007 RL • 6.6571 PSA • 10.975
MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM CONE (R825C2)

SECTION (1) SRM 800S CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.4403	.3768	.2191
22.500	.4485	.3868	.2358
45.000	.4716	.4147	.2583
67.500			.2671
90.000	.4883	.4379	.2837
112.500			.2604
135.000	.4488	.3806	.2391
157.500	.4174	.3453	.2035
180.000	.4011	.3265	.1720
202.500	.4053	.3354	.1682
225.000	.4293	.3759	.1800
247.500			.2907
270.000	.4591	.5412	.5151
292.500			.3823
315.000	.4747	.4446	.2513
337.500	.4536	.3983	.2255
360.000	.4403	.3768	.2191

MACH (3) • 1.050 BETA (3) • -4.000 0 PTA • 8.4447 PTA • 22.007 RL • 6.6571 PSA • 10.975

SECTION (1) SRM 800S CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.4747	.4112	.2435
22.500	.4839	.4095	.2503
45.000	.4861	.4009	.2533
67.500			.2534
90.000	.4555	.3998	.2513
112.500			.2441
135.000	.4409	.3760	.2330
157.500	.4327	.3646	.2138
180.000	.4138	.3470	.1960
202.500	.4251	.3624	.1877
225.000	.4511	.3980	.1970
247.500			.3020
270.000	.5243	.5818	.5234
292.500			.4078
315.000	.5083	.4788	.2791
337.500	.4848	.4313	.2514
360.000	.4747	.4112	.2435

TABLATED SOURCE DATA, MFCC TMT 067 (1132F)

MFCC 067(1132F) TO 03/2 03 5PM CONE (R025C2)

MACH (3) = 1.050 BETA (4) = .000 Q = 0.4447 PTA = 22.007 RL = 0.8571 PSA = 10.975

SECTION (1) 5PM 0008 CONE
DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI 000	.4774	.4100	.2425
22.500	.4316	.3653	.2317
45.000	.4400	.3755	.2175
67.500			.2005
90.000	.4181	.3514	.2017
112.500			.2028
135.000	.4212	.3479	.2035
157.500	.4257	.3248	.2021
180.000	.4229	.3238	.2038
202.500	.4380	.3740	.2055
225.000	.4884	.4187	.2172
247.500			.3244
270.000	.5387	.5712	.5273
292.500			.4107
315.000	.6283	.4888	.3000
337.500	.5053	.4821	.2959
360.000	.4774	.4100	.2425

MACH (3) = 1.050 BETA (5) = 4.000 Q = 0.4447 PTA = 22.007 RL = 0.8571 PSA = 10.975

SECTION (1) 5PM 0008 CONE
DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI 000	.4583	.4030	.2414
22.500	.4210	.3643	.2112
45.000	.3840	.3357	.1874
67.500			.1704
90.000	.3703	.3065	.1833
112.500			.1670
135.000	.3781	.3160	.1770
157.500	.3916	.3290	.1810
180.000	.3947	.3490	.2103
202.500	.4139	.3787	.2209
225.000	.4438	.4217	.2330
247.500			.3139
270.000	.5145	.5783	.9300
292.500			.4512
315.000	.5389	.5130	.3418
337.500	.5182	.4827	.3087
360.000	.4583	.4030	.2414

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MSFC 567(1A32F) T8 S3/2 S3/2 03 SRM CONE (R82SC2)

MACH (3) = 1.050 BETA (6) = 8.000 Q = 8.4447 PTA = 22.007 RL = 6.6571 PSA = 10.975

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.4260	.3822	.2510
22.500	.3732	.3329	.1807
45.000	.3343	.2922	.1508
67.500		.1289	
90.000	.3186	.2883	.1273
112.500		.1336	
135.000	.3282	.2752	.1445
157.500	.3451	.2967	.1597
180.000	.3564	.3274	.1984
202.500	.3770	.3628	.2193
225.000	.4005	.4038	.2314
247.500		.3072	
270.000	.4564	.5453	.5141
292.500		.4358	
315.000	.5076	.5182	.3433
337.500	.5003	.4882	.3282
360.000	.4260	.3922	.2510

MACH (3) = 1.050 BETA (7) = 10.000 Q = 8.4447 PTA = 22.007 RL = 6.6571 PSA = 10.975

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.4099	.3916	.2581
22.500	.3470	.3195	.1802
45.000	.3029	.2700	.1300
67.500		.1105	
90.000	.2922	.2448	.1105
112.500		.1176	
135.000	.2967	.2541	.1255
157.500	.3165	.2757	.1457
180.000	.3343	.3154	.1909
202.500	.3609	.3572	.2229
225.000	.3799	.3937	.2301
247.500		.3009	
270.000	.4207	.5218	.4889
292.500		.4245	
315.000	.4883	.5044	.3371
337.500	.4883	.4878	.3363
360.000	.4099	.3916	.2581

TABLATED SOURCE DATA, MSFC TMT 567 (11A32F)

(R625C2)

MSFC 567(11A32F) TO 53/2 53/2 03 SRM CONE

DATE 05 SEP 75

MACH (4) = 1.250 BETA (1) = -10.000 Q = 9.2803 PTA = 22.005 PL = 0.9757 PSA = 0.5301

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS .0433 .0722 .1013

PHI	.000	.4301	.4161	.3242
22.500	.4434	.4317	.3585	
45.000	.4688	.4642	.3860	
67.500	.4900	.4857	.4161	
90.000	.5083	.5143	.4387	
112.500	.5233	.5277	.4617	
135.000	.5362	.5415	.4827	
157.500	.5478	.5501	.5015	
180.000	.5579	.5601	.5181	
202.500	.5666	.5688	.5323	
225.000	.5739	.5761	.5442	
247.500	.5803	.5825	.5541	
270.000	.5859	.5881	.5621	
292.500	.5907	.5929	.5683	
315.000	.5947	.5969	.5727	
337.500	.5980	.5999	.5754	
360.000	.5997	.6013	.5762	

MACH (4) = 1.250 BETA (2) = -9.000 Q = 9.2803 PTA = 22.005 PL = 0.9757 PSA = 0.5301

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS .0433 .0722 .1013

PHI	.000	.4013	.4005	.3169
22.500	.3903	.4124	.3487	
45.000	.4031	.4339	.3718	
67.500	.4238	.4587	.3938	
90.000	.4413	.4817	.4113	
112.500	.4549	.4943	.4243	
135.000	.4649	.5049	.4333	
157.500	.4721	.5123	.4398	
180.000	.4766	.5161	.4436	
202.500	.4791	.5172	.4451	
225.000	.4797	.5167	.4447	
247.500	.4784	.5147	.4420	
270.000	.4753	.5117	.4379	
292.500	.4707	.5072	.4323	
315.000	.4648	.5013	.4252	
337.500	.4577	.4940	.4172	
360.000	.4503	.4855	.4083	

TABULATED SOURCE DATA. MSFC THT 567 (1A32F)

MSFC 567(1A32F) TO S3/2 S3/2 03 SRM CONE (RB2562)

MACH (4) = 1.250 BETA (3) = -4.000 Q = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.3789	.3828	.3382
22.500	.3122	.3789	.3455
45.000	.3075	.3846	.3538
67.500		.3546	
90.000	.2864	.3911	.3610
112.500		.3485	
135.000	.2961	.3768	.3411
157.500	.3083	.3704	.3183
180.000	.2682	.3694	.3032
202.500	.2803	.3907	.2894
225.000	.3288	.4403	.3111
247.500		.4318	
270.000	.4888	.6013	.6418
292.500		.4962	
315.000	.3630	.4793	.3588
337.500	.3076	.4253	.3430
360.000	.3759	.3928	.3382

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.2288	.3882	.3440
22.500	.1917	.3625	.3371
45.000	.1779	.3515	.3288
67.500		.3238	
90.000	.1560	.3110	.3177
112.500		.3155	
135.000	.1834	.3092	.3046
157.500	.2114	.3193	.3006
180.000	.2275	.3543	.3030
202.500	.2400	.3811	.3020
225.000	.2710	.4425	.3255
247.500		.4495	
270.000	.3411	.6093	.6502
292.500		.5043	
315.000	.3082	.4865	.3828
337.500	.2652	.4304	.3609
360.000	.2298	.3882	.3440

TABULATED SOURCE DATA, MSFC TMT 587 (11A32F)

MSFC 587(11A32F) TO 53/2 53/2 03 SRM CONE (R8ESC2)

MACH (4) = 1.250 BETA (5) = 4.000 Q = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (11SRM 8006 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI	.000	.3418	.3831
	.2701	.3451	.3047
	.1709	.3143	.2782
	.67.500		.2639
	.90.000	.1218	.2823
		.2531	.2486
	112.500		.2534
	135.000	.1538	.2750
	157.500	.2280	.2838
	180.000	.1897	.3125
	202.500	.2335	.3435
	225.000	.2922	.4122
	247.500		.4164
	270.000	.3587	.6017
	292.500		.5484
	315.000	.4137	.5272
	337.500	.3795	.4693
	360.000	.3410	.3931

MACH (4) = 1.250 BETA (6) = 8.000 Q = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (11SRM 8006 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI	.000	.2135	.3243
	.22.500	.1508	.2819
	.45.000	.1211	.2219
	.67.500		.2093
	.90.000	.0887	.1826
			.1931
	112.500		.1825
	135.000	.1187	.2083
	157.500	.1434	.2408
	180.000	.1598	.2748
	202.500	.1865	.3361
	225.000	.2450	.4043
	247.500		.4126
	270.000	.3287	.5871
	292.500		.5304
	315.000	.3735	.4832
	337.500	.3488	.4278
	360.000	.2135	.3243

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MSFC 567(1A32F) T9 53/2 53/2 03 SRM CONE (R825C2)

MACH (4) = 1.250 BETA (7) = 10.000 0 = 9.2803 PTA = 22.005 PL = 8.9757 PSA = 8.5301

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1770	.2740	.3231
22.500	.1167	.2012	.2599
45.000	.0901	.1663	.2096
67.500		.1796	
90.000	.0844	.1502	.1639
112.500		.1665	
135.000	.0843	.1767	.1762
157.500	.1040	.2093	.2010
180.000	.1598	.2660	.2518
202.500	.2120	.3368	.2919
225.000	.2524	.4078	.3222
247.500		.4245	
270.000	.3144	.5432	.6238
292.500		.5074	
315.000	.3804	.4580	.4022
337.500	.3278	.4193	.3921
360.000	.1770	.2740	.3231

MACH (6) = 1.480 BETA (1) = -10.000 0 = 9.4718 PTA = 22.004 PL = 8.6271 PSA = 8.3837

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.3209	.4645	.4139
22.500	.3384	.4481	.4351
45.000	.3902	.4556	.4490
67.500		.4749	
90.000	.4473	.4887	.4991
112.500		.4883	
135.000	.3911	.4486	.4356
157.500	.3429	.4407	.4122
180.000	.3154	.4232	.4163
202.500	.3250	.5018	.4091
225.000	.3386	.5464	.4377
247.500		.5778	
270.000	.3750	.6958	.7871
292.500		.6074	
315.000	.3478	.6528	.4592
337.500	.3317	.6028	.4330
360.000	.3209	.4645	.4139

TABLATED SOURCE DATA, MSFC THT 987 (1A3EF)

(R825C2)

MSFC 987(1A3EF) TO 93/2 93/2 03 SRM CONE

PSA = 8.3637

RL = 6.5271

PTA = 22.004

PTA = 9.4716

Q = -8.000

BETA (2) = 1.460

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MACH (9) = 1.460 BETA (2) = -8.000 Q = 9.4716 PTA = 22.004 PSA = 8.3637
SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/LS .0433 .0722 .1013

PHI	.000	.2585	.3978	.4073
22.500	.2800	.3672	.4274	
45.000	.3240	.3727	.4325	
67.500	.3627	.4233	.4393	
90.000	.3123	.3717	.4085	
112.500	.2687	.3047	.4004	
135.000	.2733	.3652	.4057	
157.500	.2686	.4775	.3983	
180.000	.3011	.8331	.4281	
202.500	.3381	.6868	.9724	
225.000	.3109	.5453	.7805	
247.500	.2693	.4868	.6038	
270.000	.2595	.3978	.4489	
292.500	.2595	.3978	.4244	
315.000	.2595	.3978	.4073	

MACH (5) = 1.460 BETA (3) = -4.000 Q = 9.4716 PTA = 22.004 PSA = 8.3637

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/LS .0433 .0722 .1013

PHI	.000	.2223	.3545	.3582
22.500	.2282	.2982	.3581	
45.000	.2536	.2776	.3298	
67.500	.2720	.2732	.3116	
90.000	.2434	.2740	.3054	
112.500	.2227	.2668	.3058	
135.000	.1986	.3020	.3284	
157.500	.2116	.4122	.3950	
180.000	.2264	.5208	.3674	
202.500	.2508	.6774	.3762	
225.000	.2508	.6774	.4093	
247.500	.2438	.5823	.5572	
270.000	.2256	.4387	.7113	
292.500	.2223	.3545	.5885	
315.000	.2223	.3545	.4481	
337.500	.2223	.3545	.4044	
360.000	.2223	.3545	.3582	

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TABLULATED SOURCE DATA, MSFC INT 967 (1A32F)

MSFC 967(1A32F) TO 53/2 53/2 03 SSM CONE (R825C2)

MACH (5) = 1.480 BETA (4) = .000 Q = 9.4716 PTA = 22.004 RL = 6.527 PSA = 5.3637

SECTION (1) SSM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PH1			
.000	.1687	.3148	.3695
22.500	.1666	.2405	.3467
45.000	.1800	.2143	.3041
67.500		.2469	
90.000	.1815	.1997	.2401
112.500		.2442	
135.000	.1750	.2138	.2821
157.500	.1650	.2364	.3340
180.000	.1691	.2638	.3532
202.500	.1964	.3220	.3775
225.000	.2015	.5111	.4246
247.500		.5611	
270.000	.2155	.7011	.7655
292.500		.6058	
315.000	.2190	.5828	.4522
337.500	.2152	.3904	.4128
360.000	.1687	.3148	.3695

MACH (5) = 1.460 BETA (5) = 4.000 Q = 9.4716 PTA = 22.004 RL = 6.527 PSA = 5.3637

SECTION (1) SSM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PH1			
.000	.1590	.2921	.3458
22.500	.1303	.1878	.2896
45.000	.1172	.1503	.2455
67.500		.1720	
90.000	.1049	.1188	.1576
112.500		.1628	
135.000	.1053	.1492	.2282
157.500	.1204	.1813	.2792
180.000	.1460	.2278	.3232
202.500	.1819	.3243	.3492
225.000	.1712	.4897	.4059
247.500		.5348	
270.000	.2010	.6839	.7532
292.500		.6194	
315.000	.2010	.9650	.4739
337.500	.1687	.4486	.4164
360.000	.1590	.2921	.3458

TABULATED SOURCE DATA, NSFC TMT 567 (1A32F)

(RBCSL2)

NSFC 987(1A32F) TO 53/2 53/2 03 5PM CONE

PSA • 8.3637

PL • 6.5271

PTA • 22.004

Q • 9.4718

BETA (6) • 0.000

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MACH (5) • 1.480

DEPENDENT VARIABLE CP

SECTION (1) 5PM BOOS CONE

X/L5 .0433 .0722 .1013

PHI	.000	.1238	.2683	.3214
22.500	.0786	.1867	.2483	
45.000	.0532	.1188	.1913	
67.500			.1489	
90.000	.0321	.0740	.1140	
112.500			.1035	
135.000	.0594	.0994	.1541	
157.500	.0838	.1422	.2095	
180.000	.1256	.1940	.2637	
202.500	.1571	.2653	.3381	
225.000	.1892	.4198	.3957	
247.500			.5392	
270.000	.2640	.6247	.7513	
292.500			.8112	
315.000	.2861	.4304	.4844	
337.500	.2378	.3643	.4036	
360.000	.1256	.2683	.3214	

PSA • 8.3637

PL • 6.5271

PTA • 22.004

Q • 9.4718

BETA (7) • 10.000

MACH (5) • 1.480

DEPENDENT VARIABLE CP

SECTION (1) 5PM BOOS CONE

X/L5 .0433 .0722 .1013

PHI	.000	.1254	.2159	.3041
22.500	.0728	.1390	.2182	
45.000	.0410	.0862	.1525	
67.500			.1120	
90.000	.0286	.0635	.0921	
112.500			.0990	
135.000	.0438	.0687	.1218	
157.500	.0683	.1047	.1878	
180.000	.1365	.2180	.2744	
202.500	.1791	.3171	.3459	
225.000	.2336	.4693	.4082	
247.500			.9420	
270.000	.3519	.6223	.7369	
292.500			.5655	
315.000	.3859	.4048	.4487	
337.500	.3117	.3496	.3998	
360.000	.1254	.2159	.3041	

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TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) TB 53/2 53/2 03 SRM CONE (N825C2)

MACH (6) = 1.980 BETA (1) = -8.000 0 = 10.263 PTA = 27.997 RL = 7.0840 PSA = 3.8384

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.2870	.2738	.3184
22.500	.3344	.3053	.3280
45.000	.3744	.3507	.3654
67.500	.3995	.4127	.3968
90.000	.3641	.3528	.3509
112.500	.3243	.3024	.3179
135.000	.2847	.2783	.3436
157.500	.2512	.2695	.4935
180.000	.2395	.3394	.6071
202.500	.2442	.5097	.8003
225.000	.2437	.3500	.8510
247.500	.2520	.3094	.5194
270.000	.2870	.2738	.3184

MACH (6) = 1.980 BETA (2) = -4.000 0 = 10.263 PTA = 27.997 RL = 7.0840 PSA = 3.8384

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.2280	.2375	.2783
22.500	.2569	.2565	.2686
45.000	.2874	.2818	.2912
67.500	.3047	.2922	.3156
90.000	.2937	.2688	.2998
112.500	.2681	.2430	.2790
135.000	.2221	.2224	.2658
157.500	.1924	.2294	.4041
180.000	.1803	.2626	.5812
202.500	.1730	.3318	.7843
225.000	.1807	.2877	.6433
247.500	.1991	.2575	.4474
270.000	.2280	.2375	.2783

DATE 05 SEP 75 TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM CONE (R825C2)

MACH (6) = 1.060 BETA (3) = .000 0 = 10.263 PTA = 27.997 RL = 7.0840 PSA = 3.8384

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1753	.1958	.2310
22.500	.1960	.1960	.2180
45.000	.2031	.2076	.2042
67.500	.2098	.2224	.2048
90.000	.2098	.2098	.2098
112.500	.2098	.2126	.2126
135.000	.2098	.2097	.2139
157.500	.2064	.1951	.2271
180.000	.1980	.1959	.2523
202.500	.1771	.2211	.3784
225.000	.1625	.2607	.5975
247.500	.1510	.3059	.9078
270.000	.1502	.2605	.6123
292.500	.1611	.2266	.4251
315.000	.1753	.1958	.2310

MACH (6) = 1.060 BETA (4) = 4.000 0 = 10.263 PTA = 27.997 RL = 7.0840 PSA = 3.8384

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1415	.1802	.2064
22.500	.1487	.1629	.1674
45.000	.1481	.1439	.1480
67.500	.1379	.1409	.1421
90.000	.1379	.1409	.1484
112.500	.1371	.1481	.1473
135.000	.1413	.1882	.1779
160.000	.1340	.1804	.2026
202.500	.1352	.1878	.3089
225.000	.1629	.2308	.4136
247.500	.1887	.2520	.7624
270.000	.1647	.2475	.6286
292.500	.1454	.2175	.4054
315.000	.1415	.1802	.2064

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TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 SRM CONE (R825C2)

MACH (6) = 1.980 BETA (5) = 9.000 0 = 10.263 PTA = 27.967 RL = 7.0840 PSA = 3.8384

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.1653	.1784	.2254
22.500	.1247	.1354	.1653
45.000	.0924	.1056	.1329
67.500			.1115
90.000	.0813	.0889	.0952
112.500			.0977
135.000	.0944	.0973	.1140
157.500	.1212	.1223	.1449
180.000	.1265	.1510	.1804
202.500	.1905	.1805	.2584
225.000	.1834	.2204	.3873
247.500			.7377
270.000	.2143	.2090	.9352
292.500			.7675
315.000	.2260	.2998	.4844
337.500	.1960	.2735	.3224
360.000	.1653	.1784	.2254

MACH (7) = 2.980 BETA (1) = -9.000 0 = 9.1998 PTA = 30.020 RL = 4.1200 PSA = .62960

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.3284	.2818	.2536
22.500	.3542	.3322	.3121
45.000	.3728	.3648	.3545
67.500			.3798
90.000	.3795	.3680	.3877
112.500			.3746
135.000	.3584	.3486	.3459
157.500	.3445	.3195	.2984
180.000	.3057	.2621	.2338
202.500	.2811	.2198	.2353
225.000	.2424	.2125	.2491
247.500			.5794
270.000	.2055	.2502	.8872
292.500			.6170
315.000	.2383	.2133	.2808
337.500	.2841	.2271	.2505
360.000	.3284	.2819	.2536

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 SRH CONE (R825C2)

MACH (7) = 2.980 BETA (2) = -4.000 Q = 5.1698 PTA = 30.020 RL = 4.1200 PSA = .82960

SECTION (1) SRH BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.2700	.2323	.2051
22.500	.2710	.2539	.2365
45.000	.2608	.2767	.2664
67.500	.2750	.2830	.2830
90.000	.2768	.2875	.2852
112.500	.2684	.2778	.2778
135.000	.2684	.2688	.2614
157.500	.2688	.2502	.2380
180.000	.2524	.2151	.1898
202.500	.2373	.1793	.1658
225.000	.2082	.1689	.1681
247.500	.1894	.2040	.3013
270.000	.1776	.2418	.2762
292.500	.2040	.1685	.3639
315.000	.2418	.1685	.2338
337.500	.2700	.1685	.2040
360.000	.2700	.2323	.2051

MACH (7) = 2.980 BETA (3) = .000 Q = 5.1698 PTA = 30.020 RL = 4.1200 PSA = .82960

SECTION (1) SRH BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.2029	.1683	.1522
22.500	.1846	.1793	.1678
45.000	.1917	.1873	.1787
67.500	.1854	.1884	.1839
90.000	.1843	.1791	.1832
112.500	.1862	.1682	.1620
135.000	.1778	.1724	.1791
157.500	.2130	.1635	.1724
180.000	.2022	.1778	.1563
202.500	.1776	.1478	.1604
225.000	.1422	.1400	.1977
247.500	.1422	.1878	.2320
270.000	.1689	.1381	.6290
292.500	.1689	.1381	.2487
315.000	.1689	.1459	.2144
337.500	.2029	.1683	.1683
360.000	.2029	.1683	.1522

TABLAVATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM CONE (R825C2)

MACH (7) = 2.990 BETA (4) = 4.000 Q = 5.1898 PTA = 30.020 RL = 4.1200 PSA = .82560

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.1723	.1985	.1682
22.500	.1577	.1492	.1506
45.000	.1432	.1406	.1387
67.500		.1294	
90.000	.1288	.1306	.1251
112.500		.1262	
135.000	.1290	.1275	.1305
157.500	.1451	.1398	.1383
180.000	.1711	.1488	.1485
202.500	.1678	.1544	.1715
225.000	.1529	.1887	.1678
247.500		.1670	
270.000	.1283	.2186	.3229
292.500		.1839	
315.000	.1515	.2133	.1854
337.500	.1760	.1831	.2185
360.000	.1723	.1585	.1682

MACH (7) = 2.990 BETA (5) = 8.000 Q = 5.1898 PTA = 30.020 RL = 4.1200 PSA = .82560

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.1581	.1711	.1741
22.500	.1134	.1201	.1311
45.000	.0884	.0940	.0955
67.500		.0765	
90.000	.0748	.0757	.0716
112.500		.0727	
135.000	.0740	.0774	.0841
157.500	.0992	.1070	.1096
180.000	.1478	.1515	.1478
202.500	.1767	.1698	.1721
225.000	.2238	.2167	.0647
247.500		.0963	
270.000	.2774	.0926	.3284
292.500		.0710	
315.000	.2640	.2741	.0718
337.500	.2183	.2424	.2018
360.000	.1581	.1711	.1741

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 53/2 53/2 03 SRM CONE (R25C2)

MACH (8) = 3.500 BETA (3) = .000 0 = 5.7192 PTA = 50.033 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5 .0433 .0722 .1013

PHI	.000	.2194	.1863	.1609
	22.500	.2067	.1935	.1810
	45.000	.1972	.1935	.1876
	67.500		.1895	
	90.000	.1878	.1908	.1878
	112.500		.1873	
	135.000	.1900	.1849	.1859
	157.500	.2052	.1910	.1812
	180.000	.2258	.1900	.1612
	202.500	.2207	.1608	.1501
	225.000	.2028	.1376	.1768
	247.500		.2295	
	270.000	.1660	.1656	.3459
	292.500		.2461	
	315.000	.1957	.1305	.1998
	337.500	.2231	.1995	.1612
	360.000	.2194	.1863	.1609

MACH (8) = 3.500 BETA (4) = 4.000 0 = 5.7192 PTA = 50.033 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5 .0433 .0722 .1013

PHI	.000	.1881	.1678	.1756
	22.500	.1597	.1529	.1502
	45.000	.1430	.1416	.1396
	67.500		.1328	
	90.000	.1284	.1301	.1281
	112.500		.1271	
	135.000	.1303	.1282	.1319
	157.500	.1497	.1426	.1396
	180.000	.1788	.1541	.1477
	202.500	.1815	.1626	.1721
	225.000	.1721	.1957	.1660
	247.500		.1349	
	270.000	.1474	.2147	.1447
	292.500		.1322	
	315.000	.1707	.2174	.1825
	337.500	.1930	.1883	.2065
	360.000	.1861	.1678	.1753

TABULATED SOURCE DATA, MFPC TMT 067 (1A35F)

MFPC 067(1A35F) TB 03/2 03 03 03 (R025C2)

MACH (0) = 3.000 BETA (0) = 0.000 Q = 0.7102 PTA = 50.033 PL = 5.3300 PSA = 0.7500

DEPENDENT VARIABLE CP

SECTION (1) 118PM 0008 CONE

X/LB	.0433	.0722	.1013
PH1			
.000	.1604	.1702	.1706
22.500	.1145	.1182	.1212
45.000	.0887	.0941	.0991
67.500		.0785	.0785
90.000	.0754	.0781	.0787
112.500		.0781	.0781
135.000	.0785	.0882	.0926
157.500	.1035	.1083	.1093
180.000	.1514	.1504	.1484
202.500	.1785	.1658	.1707
225.000	.2311	.2033	.0557
247.500		.0402	
270.000	.2674	.0688	.1592
292.500		.0476	
315.000	.2705	.2475	.0544
337.500	.2201	.2302	.1957
360.000	.1604	.1702	.1706

MSFC 967(1A32F) T9 53/2 53/2 03 SRH CONE

(RBESC3) (24 APR 74)

REFERENCE DATA

SREF = 6.1960 SQ. IN. XWRP = 2.5490 IN. ALPHA = 5.000 CONF10 = 90.000
 LREF = 5.3130 IN. YWRP = .9720 IN. DELTA2 = .140 RUDDER = .000
 BREF = 5.3130 IN. ZWRP = .0000 IN. X-SRB = .000 ORBINC = .500
 SCALE = .0040 SCALE

MACH (1) = .600 BETA (1) = -.4.000 Q = 4.3330 PTA = 22.007 RL = 4.9867 PSA = 17.270

SECTION (1) SRH BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI	.0691	-.0351	-.3160
.000	.0688	-.0243	-.2862
22.500	.0842	-.0027	-.2783
45.000	.07500	.1567	.0872
67.500	.112.500	.2385	.1341
90.000	.157.500	.2646	.1524
112.500	.180.000	.2929	.1616
135.000	.202.500	.2991	.1764
157.500	.225.000	.3068	.2126
180.000	.247.500	.2356	.1942
202.500	.270.000	.0983	-.0287
225.000	.292.500	.0754	-.0405
247.500	.315.000	.0691	-.0351
270.000	.337.500	.0691	-.0351
292.500	.360.000	.0691	-.0351
315.000			
337.500			
360.000			

MACH (2) = .600 BETA (2) = .000 Q = 4.3330 PTA = 22.007 RL = 4.9867 PSA = 17.270

SECTION (1) SRH BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI	.0944	-.0431	-.3316
.000	.0925	-.0369	-.3300
22.500	.0829	-.0379	-.3249
45.000	.07500	.1567	.0872
67.500	.112.500	.2385	.1341
90.000	.157.500	.2646	.1524
112.500	.180.000	.2929	.1616
135.000	.202.500	.2991	.1764
157.500	.225.000	.3068	.2126
180.000	.247.500	.2356	.1942
202.500	.270.000	.0983	-.0287
225.000	.292.500	.0754	-.0405
247.500	.315.000	.0691	-.0351
270.000	.337.500	.0691	-.0351
292.500	.360.000	.0691	-.0351
315.000			
337.500			
360.000			

TABLULATED SOURCE DATA, MSFC TMT 987 (1A32F)

(R825C3)

DATE 08 SEP 75 MSFC 987(1A32F) TO 93/2 93/2 03 SRM CONE

MACH (1) = .600 BETA (2) = .000

SECTION (1) SRM 800S CONE DEPENDENT VARIABLE CP

X/L/S .0433 .0722 .1013

PHI	
292.500	-.4044
315.000	-.1029
337.500	-.0782
360.000	-.0544

MACH (1) = .600 BETA (3) = 4.000 Q = 4.3330 PTA = 22.007 RL = 4.9667 PSA = 17.270

SECTION (1) SRM 800S CONE DEPENDENT VARIABLE CP

X/L/S .0433 .0722 .1013

PHI	
.000	.0285
22.500	.0325
45.000	.0357
67.500	.0374
90.000	.0374
112.500	.0374
135.000	.0374
157.500	.0374
180.000	.0374
202.500	.0374
225.000	.0374
247.500	.0374
270.000	.0374
292.500	.0374
315.000	.0374
337.500	.0374
360.000	.0374

MACH (2) = .600 BETA (1) = -4.000 Q = 7.3830 PTA = 22.008 RL = 6.2700 PSA = 13.033

SECTION (1) SRM 800S CONE DEPENDENT VARIABLE CP

X/L/S .0433 .0722 .1013

PHI	
.000	.1729
22.500	.1716
45.000	.1808
67.500	.2548
90.000	.1808
112.500	.0430
135.000	.3436
157.500	.2803

TABULATED SOURCE DATA, MSFC THT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 SRM CONE

(RBC :

DATE 05 SEP 75

MACH (2) = .900 BETA (1) = -.000

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
190.000	.3987	.2506	.0648
202.500	.4153	.3212	.0777
225.000	.4226	.3708	.1344
247.500	.3638	.3654	.2600
270.000	.2185	.1313	-.1114
292.500	.1917	.1044	-.0908
315.000	.1729	.0922	-.0801

MACH (2) = .900 BETA (2) = .000 0 = 7.3630 PTA = 22.008 RL = 6.2700 PSA = 13.033

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.1813	.1078	-.0600
22.500	.1708	.1055	-.0559
45.000	.1719	.1526	-.0584
67.500	.1950	.1192	-.0621
90.000	.2899	.2075	.0176
112.500	.3946	.2520	.0483
135.000	.4113	.3026	.0857
157.500	.4475	.3539	.1138
180.000	.4622	.4086	.1713
202.500	.3768	.3625	.3169
225.000	.2340	.1448	-.0905
247.500	.2057	.1235	-.0610
270.000	.1813	.1078	-.0800

TABULATED SOURCE DATA, MSFC TMT 587 (1A32F)

DATE 05 SEP 75

MSFC 587(1A32F) TO 53/2 53/2 03 SRM CONE (R625C3)

MACH (2) = .900 BETA (3) = 4.000 Q = 7.3030 PTA = 22.008 PL = 6.2700 PSA = 13.033

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.1821	.0943	-.0718
22.500	.1588	.0947	-.0739
45.000	.1584	.0880	-.0803
67.500		-.0952	
90.000	.1544	.0751	-.0833
112.500		-.0729	
135.000	.2318	.1430	-.0447
157.500	.3035	.2041	-.0030
180.000	.3660	.2730	.0498
202.500	.4480	.3528	.1100
225.000	.4818	.4151	.1642
247.500		.2723	
270.000	.4119	.3687	.3178
292.500		.0212	
315.000	.2852	.1871	-.0511
337.500	.2181	.1385	-.0469
360.000	.1621	.0943	-.0718

MACH (3) = 1.050 BETA (1) = -4.000 Q = 8.4300 PTA = 22.007 PL = 6.5700 PSA = 11.008

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.3158	.2583	.1255
22.500	.3083	.2591	.1340
45.000	.3195	.2714	.1481
67.500		.1690	
90.000	.3981	.3448	.2108
112.500		.2480	
135.000	.4257	.4274	.2751
157.500	.5248	.4517	.2778
180.000	.5437	.4685	.2835
202.500	.5529	.4939	.2879
225.000	.5545	.5348	.3477
247.500		.4577	
270.000	.4748	.5053	.4723
292.500		.1362	
315.000	.3484	.2917	.0868
337.500	.3384	.2778	.1233
360.000	.3158	.2583	.1255

TABLATED SOURCE DATA, MSFC TMT 587 (1A32F)

MSFC 687(1A32F) TO 83/2 83/2 03 SRM CONE (MS25C3)

MACH (3) = 1.050 BETA (2) = .000 0 = 8.4300 PTA = 22.007 RL = 8.5700 PSA = 11.008

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.3288	.2753	.1361
22.500	.3217	.2751	.1484
45.000	.3216	.2709	.1428
67.500			.1482
90.000	.3614	.2845	.1886
112.500			.1897
135.000	.4222	.3633	.2300
157.500	.5085	.4274	.2527
180.000	.5418	.4757	.2956
202.500	.5562	.5177	.3224
225.000	.5528	.5524	.3558
247.500			.4711
270.000	.4578	.5153	.4728
292.500			.1578
315.000	.3395	.3037	.1042
337.500	.3157	.2850	.1471
360.000	.3288	.2753	.1361

MACH (3) = 1.050 BETA (3) = 4.000 0 = 8.4300 PTA = 22.007 RL = 8.5700 PSA = 11.008

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.3013	.2714	.1432
22.500	.3002	.2638	.1309
45.000	.3055	.2612	.1261
67.500			.1218
90.000	.3086	.2519	.1271
112.500			.1418
135.000	.3607	.3298	.1748
157.500	.4573	.3982	.2148
180.000	.4833	.4307	.2419
202.500	.5026	.5021	.3397
225.000	.4895	.5127	.3697
247.500			.4859
270.000	.3430	.5017	.4922
292.500			.2379
315.000	.2978	.3503	.1775
337.500	.2880	.3155	.1815
360.000	.3013	.2714	.1432

TABLATED SOURCE DATA, MSFC TMT 087 (1A32F)

MSFC 087(1A32F) T8 03/2 03 SPM CODE (1825C3)

MACH (4) • 1.250 BETA (1) • -.000 0 • 0.2043 PTA • 22.007 PL • 0.0007 PSLA • 0.5180

DEPENDENT VARIABLE CP

SECTION 1 115PH 000S CODE

K/L/S	PH1	PH2	PH3	PH4	PH5	PH6	PH7	PH8	PH9	PH10	PH11	PH12	PH13
000	.000	.2445	.0228	.1750									
22.500	.2078	.2325	.2070										
45.000	.2005	.2558	.2358										
67.500		.2772											
90.000	.2001	.3402	.3172										
112.500		.3602											
135.000	.4004	.4381	.3868										
157.500	.4518	.4710	.3939										
180.000	.4415	.4882	.4023										
202.500	.4683	.5228	.4184										
225.000	.4754	.5708	.4887										
247.500	.4388	.5916	.5087										
270.000		.5985											
292.500	.2910	.2760	.1087										
315.000	.2147	.2593	.1578										
337.500	.2445	.2220	.1790										

MACH (4) • 1.250 BETA (2) • .030 0 • 0.2043 PTA • 22.007 PL • 0.0007 PSLA • 0.5180

DEPENDENT VARIABLE CP

SECTION 1 115PH 000S CODE

K/L/S	PH1	PH2	PH3	PH4	PH5	PH6	PH7	PH8	PH9	PH10	PH11	PH12	PH13
000	.000	.1092	.1853	.1680									
22.500	.0377	.1923	.2015										
45.000	.0285	.1991	.1988										
67.500		.2565											
90.000	.1308	.2088	.2341										
112.500		.2680											
135.000	.2900	.3331	.3158										
157.500	.3685	.3947	.3448										
180.000	.4088	.4882	.3915										
202.500	.4388	.5234	.4252										
225.000	.4754	.5745	.4854										
247.500	.4388	.6005	.5005										
270.000		.5377	.5948										
292.500	.1409	.2520	.1210										
315.000	.1086	.2235	.1832										
337.500	.1092	.1853	.1680										

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TABLULATED SOURCE DATA. MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) 19 53/2 53/2 05 SN: CONE (R025C3)

MACH (4) = 1.250 BETA (3) = 4.000 Q = 9.26N3 PTA = 22.007 RL = 6.6867 PSA = 8.5180

SECTION (1) 15PM 800S CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1538	.2411	.1932
22.500	.1176	.2249	.1877
45.000	.0816	.2183	.1821
67.500		.1948	
90.000	.0898	.2074	.2015
112.500		.2230	
135.000	.2419	.2809	.2630
157.500	.3429	.3646	.3070
180.000	.3493	.4215	.3614
202.500	.3885	.4928	.4127
225.000	.3917	.5585	.4813
247.500		.5933	
270.000	.2583	.6544	.6036
292.500		.6897	
315.000	.1180	.3108	.1939
337.500	.0746	.2680	.2224
360.000	.1536	.2411	.1932

MACH (5) = 1.480 BETA (1) = -4.000 Q = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 8.3457

SECTION (1) 15PM 800S CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1062	.2527	.2315
22.500	.1220	.1788	.2456
45.000	.1773	.1780	.2441
67.500		.2550	
90.000	.2771	.2665	.3155
112.500		.3695	
135.000	.3548	.4136	.4128
157.500	.3608	.4750	.4591
180.000	.3544	.4622	.4941
202.500	.3609	.5300	.5243
225.000	.3380	.6620	.5856
247.500		.7185	
270.000	.2368	.6605	.7416
292.500		.3509	
315.000	.1354	.3791	.2174
337.500	.1049	.2991	.2421
360.000	.1062	.2527	.2315

TABLATED SOURCE DATA, NSFC TMT 867 (1A32F)

DATE 08 SEP 75

NSFC 867(1A32F) T8 53/2 53/2 03 SRM CONE (R825C3)

MACH (5) = 1.460 BETA (2) = .000 0 = 9.4730 PTA = 22.010 RL = 8.5300 PSA = 6.3457

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.0950	.1640	.2252
22.500	.0481	.1187	.2281
45.000	.0746	.1191	.2000
67.500		.1811	
90.000	.1505	.1905	.2207
112.500		.2696	
135.000	.2382	.3210	.3601
157.500	.2749	.3948	.4214
180.000	.3444	.4346	.4820
202.500	.3507	.5055	.5239
225.000	.3311	.6889	.9917
247.500		.7220	
270.000	.2111	.6884	.7350
292.500		.3456	
315.000	.1063	.3887	.2030
337.500	.0913	.2156	.2322
360.000	.0550	.1640	.2252

MACH (5) = 1.460 BETA (3) = 4.000 0 = 9.4730 PTA = 22.010 RL = 8.5300 PSA = 6.3457

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.0215	.1266	.2097
22.500	.0138	.0709	.1788
45.000	.0317	.0526	.1337
67.500		.1070	
90.000	.0832	.0979	.1383
112.500		.2032	
135.000	.1888	.2377	.2827
157.500	.2147	.3487	.3927
180.000	.2914	.3585	.4403
202.500	.3150	.4240	.4895
225.000	.3025	.5553	.5788
247.500		.7011	
270.000	.2093	.6464	.7150
292.500		.3942	
315.000	.1007	.3118	.2350
337.500	.0784	.1274	.2335
360.000	.0215	.1266	.2097

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TABULATED SOURCE DATA, MSFC THT 567 (1A32F)

(R825C3)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM CONE

MACH (6) = 1.960 BETA (1) = -4.000 Q = 10.259 PTA = 28.008 RL = 7.0800 PSA = 3.6317

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S CONE

X/LS .0433 .0722 .1013

PHI	.000	.1268	.1347	.1860
	22.500	.1671	.1558	.1626
	45.000	.2131	.2041	.1978
	67.500	.2669	.2665	.2504
	90.000	.3238	.3238	.3004
	112.500	.3583	.3583	.3427
	135.000	.3585	.3656	.3633
	157.500	.3351	.3458	.4045
	180.000	.3002	.3505	.5213
	202.500	.2577	.3769	.7742
	225.000	.1692	.3219	.9640
	247.500	.1050	.1784	1.0359
	270.000	.0658	.1169	.6293
	292.500	.0433	.0722	.4056
	315.000	.0272	.0433	.2819
	337.500	.0168	.0268	.1980
	360.000	.0101	.0168	.1347

MACH (6) = 1.960 BETA (2) = .000 Q = 10.259 PTA = 28.008 RL = 7.0800 PSA = 3.6317

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S CONE

X/LS .0433 .0722 .1013

PHI	.000	.0744	.1079	.1594
	22.500	.1055	.1122	.1160
	45.000	.1297	.1428	.1327
	67.500	.1609	.2071	.1717
	90.000	.1909	.2469	.2109
	112.500	.2109	.2785	.2469
	135.000	.2469	.3120	.2849
	157.500	.3136	.3579	.3364
	180.000	.2875	.3813	.4038
	202.500	.2456	.3670	.5292
	225.000	.1572	.2847	.7786
	247.500	.0858	.1656	.9629
	270.000	.0556	.1169	1.0208
	292.500	.0347	.0556	.6112
	315.000	.0223	.0347	.3979
	337.500	.0141	.0223	.2581
	360.000	.0087	.0141	.1594

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T8 93/2 53/2 03 SRM CONE (R825C3)

MACH (6) = 1.680 BETA (3) = 4.000 Q = 10.859 PTA = 29.008 RL = 7.0800 PSA = 3.8317

SECTION (1) SRM 6005 CONE DEPENDENT VARIABLE CP

X/LS	PHI
.0433	.0722 .1013
.0300	.0625 .0859
.0550	.0584 .0712
.0800	.0723 .0769
.0950	.0581
.1200	.1177 .1260
.1450	.1814
.1700	.1953 .1984 .2093
.1950	.2397 .2427 .2683
.2200	.2504 .3057 .3388
.2450	.2561 .3256 .4158
.2700	.2613 .3254 .8378
.2950	.9891
.3200	.2029 .2185 .9592
.3450	.6214
.3700	.1113 .1259 .3662
.3950	.0917 .1043 .2004
.4200	.0368 .0655 .0959

MACH (7) = 2.680 BETA (1) = -4.000 Q = 5.1887 PTA = 30.014 RL = 4.1200 PSA = .62567

SECTION (1) SRM 6005 CONE DEPENDENT VARIABLE CP

X/LS	PHI
.0433	.0722 .1013
.0623	.1489 .1239
.0818	.2155 .2061 .1867
.1013	.4068 .4848 .2418
.1208	.8758
.1403	.1201 -.0301 .3081
.1608	.3877
.1803	.3680 .3418 .3333
.2008	.4178 .3826 .1083
.2203	.3545 .3154 .2868
.2408	.3370 .2752 .2634
.2603	.2600 .2384 .3298
.2808	.3602
.3003	.1713 .1622 .7858
.3208	.4348
.3403	.1359 .1124 .1604
.3608	.1549 .1113 .1284
.3803	.1823 .1489 .1239

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TABLULATED SOURCE DATA, MSFC TMT 967 (11A32F)

MSFC 96711A32F) TO S3/8 S3/2 03 SRM CONE (RRESFC3)

MACH (7) = 2.900 BETA (2) = .000 Q = 8.1867 PTA = 30.014 RL = 4.1200 PSA = .82367

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.1165	.0949	.0823
22.500	.1227	.1111	.1026
45.000	.1354	.1348	.1266
67.500		.1547	
90.000	.1771	.1820	.1793
112.500		.2069	
135.000	.2354	.2371	.2424
157.500	.2649	.2770	.2711
180.000	.3229	.2901	.2789
202.500	.3128	.2578	.2740
225.000	.2614	.2211	.3281
247.500		.3490	
270.000	.1469	.1917	.0901
292.500		.2297	
315.000	.1020	.0866	.1522
337.500	.1164	.0787	.0962
360.000	.1165	.0849	.0923

MACH (7) = 2.900 BETA (3) = 4.000 Q = 9.1667 PTA = 30.014 RL = 4.1200 PSA = .82367

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.0900	.0971	.0941
22.500	.0793	.0793	.0774
45.000	.0942	.0905	.0866
67.500		.1011	
90.000	.1148	.1161	.1157
112.500		.1351	
135.000	.1857	.1845	.1735
157.500	.2212	.2148	.2215
180.000	.2573	.2714	.3035
202.500	.2245	.2594	.2491
225.000	.1596	.1339	.1603
247.500		.3523	
270.000	.0144	-.0626	.0766
292.500		.0757	
315.000	.0966	.1253	.1122
337.500	.1160	.0642	.0756
360.000	.0900	.0971	.0941

(R25C3)

MSFC 867(1A32F) TO 83/2 83/2 03 SRM CONE

MACH (8) = 3.480 BETA (1) = -.000 0 = 5.8820 PTA = 48.738 RL = 5.3033 PSA = .67267

DEPENDENT VARIABLE CP

SECTION (1) SRM 8006 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.1881	.1575	.1273
22.500	.2074	.1824	.1702
45.000	9.9960	9.9990	9.9990
67.500		.2457	
90.000	.2754	.2784	.2788
112.500		.3098	
135.000	.3315	.3305	.3358
157.500	.3718	.3562	.3451
180.000	.3780	.3297	.3014
202.500	.3832	.2885	.2709
225.000	.3055	.2351	.2922
247.500		.3601	
270.000	.1920	.1992	.0485
292.500		.2842	
315.000	.1585	.1024	.1267
337.500	.1724	.1128	.1180
360.000	.1881	.1575	.1273

MACH (8) = 3.480 BETA (2) = .000 0 = 5.8820 PTA = 48.738 RL = 5.3033 PSA = .67267

DEPENDENT VARIABLE CP

SECTION (1) SRM 8006 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.1383	.1088	.0847
22.500	.1377	.1252	.1103
45.000	.1475	.1445	.1340
67.500		.1800	
90.000	.1827	.1867	.1837
112.500		.2101	
135.000	.2428	.2480	.2473
157.500	.3001	.2920	.2818
180.000	.3474	.3102	.2845
202.500	.3400	.2717	.2571
225.000	.2813	.2218	.2523
247.500		.3085	
270.000	.1728	.1560	.4134
292.500		.1803	
315.000	.1282	.0883	.1282
337.500	.1333	.0858	.0947
360.000	.1353	.1088	.0847

TABULATED SOURCE DATA, MSFC THT 567 (1A3EF)

MSFC 567(1A3EF) T9 53/2 53/2 03 SRH CONE (R25C3)

MACH (8) = 3.480 BETA (3) = 4.000 Q = 5.6920 PTA = 49.739 RL = 5.3033 PSA = .67267

SECTION (1)SRH 8005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1017	.1014	.0929
22.500	.0934	.0876	.0842
45.000	9.9990	9.9990	9.9990
67.500			.0987
90.000	.1146	.1159	.1153
112.500			.1337
135.000	.1635	.1635	.1712
157.500	.2236	.2175	.2169
180.000	.2646	.2378	.2453
202.500	.2690	.2605	.2808
225.000	.2422	.2960	.2642
247.500			.1116
270.000	.2196	.2317	.1374
292.500			.0565
315.000	.1316	.1708	.0423
337.500	.1098	.1292	.1184
360.000	.1017	.1014	.0929

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM CONE (R825C4)

MACH (1) = .600 BETA (2) = .000

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
292.500			.0369
315.000	.3840	.3270	.0093
337.500	.4016	.3030	.0200
360.000	.3452	.2243	-.0795

MACH (1) = .600 BETA (3) = 4.000 0 • 4.3053 PTA • 22.012 RL • 4.9733 PSA • 17.309

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
------	-------	-------	-------

PHI			
.000	.3012	.1783	-.1276
22.500	.2024	.0791	-.2192
45.000	.0989	-.0083	-.2960
67.500			-.3510
90.000	-.0030	-.0987	-.3760
112.500			-.3702
135.000	-.0145	-.1127	-.3787
157.500	-.0084	-.1089	-.3893
180.000	-.0269	-.1346	-.4048
202.500	-.0251	-.1462	-.4383
225.000	-.0169	-.1593	-.5317
247.500			-.6258
270.000	.1859	.1006	-.2329
292.500			.0394
315.000	.4094	.3482	.0232
337.500	.4129	.3034	-.0159
360.000	.3012	.1783	-.1276

MACH (2) = .800 BETA (1) = -4.000 0 • 7.3613 PTA • 22.005 RL • 6.2700 PSA • 13.033

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
------	-------	-------	-------

PHI			
.000	.4854	.3704	.1324
22.500	.4278	.3278	.1110
45.000	.3853	.2872	.0788
67.500			.0258
90.000	.2267	.1489	-.0242
112.500			-.0722
135.000	.1338	.0511	-.0954
157.500	.1204	.0324	-.1302

TABULATED SOURCE DATA, MSFC TMT 567 (1A3EF)

MSFC 567(1A3EF) TO S3/2 S3/2 03 SRM CONE (R825C4)

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MACH (2) = .900 BETA (1) = -.4000

SECTION (1) SRM 800S CONE DEPENDENT VARIABLE CP

X/L8	.0433	.0722	.1013
PHI			
180.000	.1851	.0283	-.1410
202.500	.1185	.0082	-.1848
225.000	.1804	.0028	-.2882
247.500			-.2778
270.000	.2858	.2835	.2079
292.500			.3397
315.000	.4738	.4810	.2371
337.500	.4850	.4235	.1811
360.000	.4854	.3704	.1324

MACH (2) = .900 BETA (2) = .000 0 = 7.3813 PTA = 82.005 PL = 6.2700 PSA = 13.933

SECTION (1) SRM 800S CONE DEPENDENT VARIABLE CP

X/L8	.0433	.0722	.1013
PHI			
.000	.4800	.3823	.1227
23.500	.3882	.2888	.0813
45.000	.2948	.2143	.0107
67.500			-.0454
90.000	.1828	.0858	-.0725
112.500			-.1053
135.000	.1186	.0408	-.1137
157.500	.1248	.0408	-.1183
180.000	.1150	.0240	-.1342
202.500	.1105	.0062	-.1812
225.000	.1218	.0103	-.2584
247.500			-.2724
270.000	.2800	.2885	.2001
292.500			.3488
315.000	.4825	.4782	.2518
337.500	.5208	.4437	.2258
360.000	.4800	.3823	.1227

TABLATED SOURCE DATA, MSFC TMT 867 (1A32F)

MSFC 567(1A32F) TO 63/2 63/2 03 SRM CONE (R25254)

RL = 6.2700 PSA = 13.633

DATE 03 SEP 75

MACH (2) = .900 BETA (3) = 4.000 Q = 7.3613 PTA = 22.005

DEPENDENT VARIABLE CP

SECTION (11591 8005 CONE

X/LS .0433 .0722 .1013

PHI	.4578	.3530	.1140
22.500	.3948	.2426	.0270
45.000	.2398	.1468	-.9459
67.500	.1174	.0381	-.0959
90.000	.1263	-.1153	-.1263
112.500	.1291	.0310	-.1172
135.000	.1125	.0296	-.1294
157.500	.1068	.0177	-.1280
180.000	.1041	.0074	-.1614
202.500	.1174	.0090	-.2458
225.000	.3180	.2928	-.2701
247.500	.5263	.5268	.1839
270.000	.5263	.5268	.3578
292.500	.5263	.5268	.2968
315.000	.5263	.5268	.2420
337.500	.4578	.3530	.1140

MACH (3) = 1.050 BETA (1) = 4.000 Q = 6.4020 PTA = 28.003 RL = 6.5633 PSA = 11.064

DEPENDENT VARIABLE CP

SECTION (11591 8006 CONE

X/LS .0433 .0722 .1013

PHI	.6070	.6317	.3329
22.500	.5709	.3086	.3086
45.000	.6183	.4811	.2603
67.500	.3665	.3228	.2316
90.000	.2918	.2308	.1629
112.500	.2770	.2135	.1433
135.000	.2812	.2030	.1206
157.500	.2711	.1835	.0878
180.000	.2783	.1814	.0698
202.500	.4172	.4225	.0284
225.000	.4172	.4225	-.0474
247.500	.5848	.5828	-.0649
270.000	.6870	.6870	.3082
292.500	.6870	.6870	.4989
315.000	.6870	.6870	.4115
337.500	.6870	.6870	.3639
360.000	.6870	.6870	.3329

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 63/2 53/2 03 59H CONE (RRESCM)

MACH (3) = 1.050 BETA (2) = .000 0 = 8.4020 PTA = 22.603 RL = 6.5633 PSA = 11.064

DEPENDENT VARIABLE CP

SECTION (1) 59H 8005 CONE

X/L5	.0433	.0722	.1013
PH)			
.000	.8128	.6590	.3268
22.500	.5434	.4807	.2730
45.000	.4808	.3948	.2222
67.500		.1748	
90.000	.3345	.2724	.1439
112.500		.1185	
135.000	.2916	.2291	.1101
157.500	.2500	.2320	.1060
180.000	.2080	.2178	.0916
202.500	.2760	.1868	.0498
225.000	.2862	.1868	-.0213
247.500		-.0484	
270.000	.4263	.4308	.3685
292.500		.5067	
315.000	.6153	.6180	.4340
337.500	.6443	.5683	.4267
360.000	.6128	.5290	.3298

MACH (3) = 1.050 BETA (3) = .000 0 = 8.4020 PTA = 22.603 RL = 6.5633 PSA = 11.064

DEPENDENT VARIABLE CP

SECTION (1) 59H 8005 CONE

X/L5	.0433	.0722	.1013
PH)			
.000	.6030	.5236	.3185
22.500	.5102	.4198	.2353
45.000	.4048	.3268	.1639
67.500		.1185	
90.000	.2808	.2177	.0825
112.500		.0862	
135.000	.2688	.2092	.0892
157.500	.2748	.2129	.0901
180.000	.2848	.2070	.0898
202.500	.2983	.1881	.0591
225.000	.2682	.2608	-.0111
247.500		-.0368	
270.000	.4067	.4220	.3485
292.500		.4901	
315.000	.6273	.6268	.4418
337.500	.6801	.6172	.4180
360.000	.6030	.5236	.3195

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TABLATED SOURCE DATA. MSFC TMT 567 (11A32F)

MSFC 567(11A32F) 19 53/2 53/2 03 SRM CONE (R82504)

MACH (4) = 1.250 BETA (1) = -4.000 0 = 9.2790 PTA = 22.003 RL = 6 6800 PSA = 8 5363

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PM1			
.000	.5242	.5492	.4490
22.500	.4951	.5135	.4316
45.000	.4415	.4897	.4018
67.500		.3574	
90.000	.2978	.3528	.3138
112.500		.2742	
135.000	.2044	.2587	.2328
157.500	.2139	.2356	.1955
180.000	.2341	.2266	.1934
202.500	.2518	.2280	.1239
225.000	.2640	.2331	.0516
247.500		.1655	
270.000	.4056	.5192	.5439
292.500		.6311	
315.000	.5273	.6291	.5252
337.500	.5324	.5863	.4815
360.000	.5242	.5492	.4490

MACH (4) = 1.250 BETA (2) = .000 0 = 9.2790 PTA = 22.003 RL = 6 6800 PSA = 8 5363

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PM1			
.000	.4748	.5235	.4428
22.500	.4029	.4612	.3983
45.000	.3214	.3918	.3480
67.500		.2990	
90.000	.1633	.2732	.2603
112.500		.2285	
135.000	.0874	.2180	.2001
157.500	.1134	.2048	.1738
180.000	.1381	.1997	.1668
202.500	.1959	.1987	.1305
225.000	.2247	.2181	.0520
247.500		.1071	
270.000	.3713	.5153	.5461
292.500		.6392	
315.000	.4952	.6181	.5392
337.500	.4987	.5805	.5152
360.000	.4748	.5235	.4428

TABULATED SOURCE DATA, MFC THT 557 (1A38F)

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MFC 067(1A38F) TO 53/2 83/2 03 5PM CONE (M2525C4)

MACH (4) = 1.258 BETA (3) = 4.009 Q = 9.2780 PTA = 22.008 PL = 0.8900 PSA = 0.3383

DEPENDENT VARIABLE CP

SECTION (1) 5PM 8006 CONE

X/L3	.0433	.0728	.1013
(PH) .000	.4875	.5142	.4274
22.500	.4025	.4225	.3742
45.000	.2947	.3272	.2788
67.500		.2272	
90.000	.1419	.2174	.1916
112.500		.1751	
135.000	.1186	.1812	.1824
157.500	.1333	.1748	.1458
180.000	.0870	.1822	.1250
202.500	.0818	.1502	.0881
225.000	.0587	.1684	.0259
247.500		.0501	
270.000	.2840	.4478	.4980
292.500		.8129	
315.000	.4873	.5875	.5424
337.500	.5258	.5858	.5084
360.000	.4875	.5142	.4274

MACH (5) = 1.480 BETA (11) = -4.000 Q = 9.4747 PTA = 22.010 PL = 0.5300 PSA = 0.3713

DEPENDENT VARIABLE CP

SECTION (1) 5PM 8006 CONE

X/L3	.0433	.0728	.1013
(PH) .000	.3081	.5385	.4088
22.500	.3583	.4900	.4818
45.000	.2481	.4198	.4134
67.500		.3871	
90.000	.2832	.2542	.2781
112.500		.2878	
135.000	.1531	.1758	.2527
157.500	.1081	.1771	.2472
180.000	.0873	.1845	.2388
202.500	.0951	.2783	.2163
225.000	.0978	.2973	.1701
247.500		.2748	
270.000	.2434	.6023	.7023
292.500		.7370	
315.000	.3153	.6485	.6024
337.500	.3189	.6002	.5447
360.000	.3581	.5385	.4088

TABLULATED SOURCE DATA, MSFC TMT 567 (1A3EF)

MSFC 567(1A3EF) T9 53/E 53/2 03 SRM CONE (R82SCH)

MACH (5) = 1.480 BETA (2) = .000 Q = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 6.3713

SECTION (1) SRM 6005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.00	.3148	.5333	.5124
22.500	.2848	.4102	.4543
45.000	.2438	.3267	.3818
67.500		.3081	
90.000	.1935	.1818	.2380
112.500		.1827	
135.000	.0813	.1188	.1870
157.500	.0817	.1184	.2180
180.000	.0719	.1849	.2029
202.500	.0735	.2624	.1918
225.000	.0865	.3011	.1733
247.500		.2787	
270.000	.2218	.6839	.6892
292.500		.7399	
315.000	.3124	.6439	.6170
337.500	.3412	.5893	.5648
360.000	.3148	.5333	.5124

MACH (5) = 1.480 BETA (3) = 4.000 Q = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 6.3713

SECTION (1) SRM 6408 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.3028	.4508	.4863
22.500	.2583	.3485	.3791
45.000	.1881	.2387	.2818
67.500		.2135	
90.000	.0837	.1143	.1416
112.500		.1025	
135.000	.0372	.0702	.1168
157.500	.0290	.0828	.1522
180.000	.0154	.1219	.1615
202.500	.0053	.1684	.1529
225.000	.0481	.2249	.1355
247.500		.2345	
270.000	.3407	.3036	.6705
292.500		.7224	
315.000	.4205	.5633	.6020
337.500	.3995	.5420	.5562
360.000	.3026	.4508	.4663

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

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MSFC 567(1A32F) T8 53/2 53/2 03 SRM CONE (R825C4)

MACH (6) = 1.660 BETA (1) = -4.000 Q = 10.282 PTA = 28.008 RL = 7.0933 PSA = 3.8560

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.3469	.3571	.4111
22.500	.3630	.3830	.3786
45.000	.3634	.3524	.3555
67.500		.3335	.3335
90.000	.2954	.2803	.2850
112.500		.2456	.2456
135.000	.2134	.1898	.1889
157.500	.1732	.1431	.1521
180.000	.1159	.1257	.1570
202.500	.0970	.1338	.2414
225.000	.0920	.1239	.3399
247.500		.9461	.9461
270.000	.1429	.4313	.9847
292.500		.5782	.5782
315.000	.2564	.3752	.7827
337.500	.3108	.3501	.6732
360.000	.3469	.3571	.4111

MACH (6) = 1.660 BETA (2) = .000 Q = 10.282 PTA = 28.008 RL = 7.0933 PSA = 3.8560

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.3068	.3446	.3892
22.500	.2982	.3177	.3417
45.000	.2866	.2823	.2920
67.500		.2524	.2524
90.000	.2087	.2069	.2161
112.500		.1750	.1750
135.000	.1950	.1423	.1363
157.500	.1213	.1175	.1228
180.000	.0939	.1071	.1632
202.500	.0745	.1123	.2852
225.000	.0741	.1380	.3439
247.500		.6370	.6370
270.000	.1453	.3455	.9705
292.500		.9806	.9806
315.000	.2493	.3885	.7845
337.500	.2939	.3798	.5611
360.000	.3068	.3446	.3892

MSFC 567(1A32F) 19 53/2 53/2 03 SRM CONE (R82SC4)

MACH (6) = 1.960 BETA 3) = 4.000 Q = 10.282 PTA = 28.008 RL = 7.0933 PSA = 3.6560

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.2678	.2668	.3507
22.500	.2467	.2474	.2859
45.000	.1983	.1957	.2239
67.500			.1711
90.000	.1159	.1276	.1261
112.500			.0978
135.000	.0727	.0794	.0810
157.500	.0537	.0635	.0771
180.000	.0240	.0481	.0975
202.500	.0104	.0523	.2233
225.000	.0093	.0643	.2674
247.500			.4911
270.000	.0716	.2287	.9255
292.500			.9026
315.000	.1817	.3801	.7094
337.500	.2415	.3357	.9525
360.000	.2878	.2868	.3507

MACH (7) = 2.880 BETA (1) = -4.000 Q = 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82900

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.3862	.3441	.3199
22.500	.3715	.3539	.3397
45.000	.3390	.3371	.3296
67.500			.2594
90.000	.2599	.2651	.2610
112.500			.2248
135.000	.2032	.1802	.1846
157.500	.1816	.1607	.1393
180.000	.1487	.1140	.0893
202.500	.1350	.0951	.0955
225.000	.1171	.1018	.1245
247.500			.3717
270.000	.1452	.1876	.7845
292.500			.4101
315.000	.2748	.2442	.3613
337.500	.3427	.2979	.3057
360.000	.3862	.3441	.3199

TABULATED SOURCE DATA, MSFC TMT 587 (11A32F)

MSFC 587(11A32F) TO 53/2 53/2 03 SRM CONE (R825C4)

DATE 05 SEP 75

MACH (7) = 2.988 BETA (2) = .000 Q = 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82900

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/L5 .0433 .0722 .1013

PHI			
.000	.3288	.2948	.2628
22.500	.3001	.2690	.2330
45.000	.2539	.2339	.2335
67.500		.2170	
90.000	.1787	.1834	.1868
112.500		.1810	
135.000	.1402	.1324	.1331
157.500	.1311	.1169	.1043
180.000	.1193	.0910	.0750
202.500	.1105	.0748	.0622
225.000	.1020	.0639	.1122
247.500		.2010	
270.000	.1339	.1734	.6733
292.500		.3508	
315.000	.2476	.2181	.3439
337.500	.3128	.2651	.2852
360.000	.3258	.2949	.2626

MACH (7) = 2.988 BETA (3) = 4.000 Q = 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82900

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/L5 .0433 .0722 .1013

PHI			
.000	.2812	.2743	.2513
22.500	.2332	.2251	.2189
45.000	.1842	.1818	.1793
67.500		.1327	
90.000	.1852	.1870	.1848
112.500		.0858	
135.000	.0781	.0705	.0675
157.500	.0757	.0627	.0481
180.000	.0678	.0477	.0295
202.500	.0619	.0429	.0392
225.000	.0509	.0556	.0794
247.500		.0731	
270.000	.1014	.1001	.4552
292.500		.2494	
315.000	.2189	.2204	.3531
337.500	.2900	.2420	.3003
360.000	.2682	.2843	.2813

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R825C4)

MSFC 567(1A32F) T8 S3/2 S3/2 03 SRM CONE

MACH (8) = 3.480 BETA (1) = -.000 0 = 5.7167 PTA = 50.012 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PH1			
.000	.4124	.3654	.3302
22.500	.3907	.3727	.3585
45.000	.3478	.3451	.3403
67.500		.3055	
90.000	.2625	.2650	.2669
112.500		.2307	
135.000	.2104	.1972	.1825
157.500	.1942	.1695	.1499
180.000	.1644	.1248	.1018
202.500	.1560	.0991	.1015
225.000	.1471	.0958	.0971
247.500		.2304	
270.000	.1719	.1451	.6566
292.500		.3687	
315.000	.3068	.2432	.3302
337.500	.3806	.3055	.3004
360.000	.4124	.3654	.3302

MACH (8) = 3.480 BETA (2) = .000 0 = 5.7167 PTA = 50.012 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PH1			
.000	.3454	.3116	.2869
22.500	.3138	.3013	.2925
45.000	.2625	.2608	.2612
67.500		.2206	
90.000	.1857	.1878	.1888
112.500		.1654	
135.000	.1495	.1404	.1390
157.500	.1424	.1279	.1130
180.000	.1377	.1035	.0809
202.500	.1350	.0839	.0805
225.000	.1316	.0822	.0920
247.500		.1509	
270.000	.1577	.1370	.4425
292.500		.3102	
315.000	.2778	.2162	.3072
337.500	.3400	.2737	.2690
360.000	.3454	.3116	.2869

TABLULATED SOURCE DATA, MSFC TMT 987 (1A32F)

MSFC 987(1A32F) 19 83/2 83/2 03 SRM CONE (R825CN)

DATE 05 SEP 76

MACH (8) = 3.480 BETA (3) = 4.000 Q = 5.7167 PTA = 50.012 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.2920	.2652	.2531
22.500	.2461	.2367	.2353
45.000	.1840	.1820	.1884
67.500		.1404	
90.000	.1072	.1072	.1130
112.500			.0863
135.000	.0832	.0744	.0778
157.500	.0628	.0694	.0626
180.000	.0829	.0572	.0389
202.500	.0809	.0484	.0440
225.000	.0856	.0559	.0650
247.500		.0917	
270.000	.1219	.1717	.1881
292.500			.1627
315.000	.2428	.1628	.3353
337.500	.2991	.2409	.2767
360.000	.2620	.2692	.2531

TABLULATED SOURCE DATA, MSFC THT 567 (1A32F)

(R82SC5) (24 APR 74)

MSFC 567(1A32F) T9 53/2 53/2 03 U5 SRH CONE

PARAMETRIC DATA

BETA = .000 CONF10 = 90.000
DELTAZ = .140 RUDDER = .000
X-SR8 = .000 ORBINC = .500

REFERENCE DATA

SREF = 6.1880 SQ. IN. XPRP = 2.5480 IN.
LREF = 5.3130 IN. YPRP = .9720 IN.
BREF = 5.3130 IN. ZPRP = .0000 IN.
SCALE = .0040 SCALE

MACH (1) = .600 ALPHA (1) = -8.000 Q = 4.3384 PTA = 22.009 RL = 4.9920 PSA = 17.268

SECTION (1) SRH BOOS CONE DEPENDENT VARIABLE CP

X/L5 .0433 .0722 .1013

PHI	.000	.3002	-.0071
22.500	.3084	.1813	-.1200
45.000	.1667	.0587	-.2324
67.500	-.0447	-.1258	-.3339
90.000	-.0878	-.1814	-.4218
112.500	-.0622	-.1635	-.4345
135.000	-.0693	-.1995	-.4615
157.500	-.1314	-.2671	-.5155
180.000	-.1654	-.3372	-.6535
202.500	-.0046	-.0935	-.4219
225.000	.4004	.3801	.1095
247.500	.4768	.3902	.0864
270.000	.4225	.3002	-.0071

MACH (2) = .600 ALPHA (2) = -5.000 Q = 4.3384 PTA = 22.009 RL = 4.9920 PSA = 17.268

SECTION (1) SRH BOOS CONE DEPENDENT VARIABLE CP

X/L5 .0433 .0722 .1013

PHI	.000	.3424	.2230	-.0813
22.500	.2844	.1436	-.1578	
45.000	.1798	.0708	-.2271	
67.500	.0484	-.0484	-.3256	
90.000	.0041	-.0792	-.3604	
112.500	.0058	-.1017	-.3790	
135.000	-.0063	-.1257	-.4004	
157.500	-.0180	-.1539	-.4453	
180.000	-.0128	-.1704	-.5338	
202.500	.1529	.0874	-.6406	
225.000			-.2283	

TABLULATED SOURCE DATA, MSFC TMT 887 (1A3ZF)

MSFC 887(1A3ZF) TO 83/2 83/2 03 US SRM CONE (1825C3)

DATE 05 SEP 75

MACH (1)	.800	ALPHA (2)	-8.000
SECTION (1) SRM 800S CONE			
X/L/S	.0433	.0722	.1013
DEPENDENT VARIABLE CP			
PHI			
292.500			.0337
315.000	.3734	.3108	.0081
337.500	.3881	.2875	-.0152
360.000	.3424	.2230	-.0813
MACH (1)			
.800	ALPHA (3)	.000	Q
	.4.3384	PTA	.22.008
		RL	.4.9820
		FSA	.17.266

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S CONE

MACH (1)	.800	ALPHA (2)	.1013
SECTION (1) SRM 800S CONE			
X/L/S	.0433	.0722	.1013
DEPENDENT VARIABLE CP			
PHI			
.000	.2048	.0940	-.2086
22.500	.1791	.0713	-.2275
45.000	.1498	.0458	-.2315
67.500			-.2586
90.000	.1229	.0181	-.2749
112.500			-.2809
135.000	.1213	.0148	-.2818
157.500	.1230	.0093	-.2904
180.000	.1338	.0078	-.2879
202.500	.1482	.0148	-.3185
225.000	.1845	.0513	-.3479
247.500			-.3077
270.000	.2753	.2341	-.0613
292.500			-.1156
315.000	.2875	.1805	-.1736
337.500	.2583	.1452	-.1726
360.000	.2048	.0940	-.2095
MACH (1)			
.800	ALPHA (4)	8.000	Q
	.4.3384	PTA	.22.008
		RL	.4.9820
		FSA	.17.266

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S CONE

MACH (1)	.800	ALPHA (2)	.1013
SECTION (1) SRM 800S CONE			
X/L/S	.0433	.0722	.1013
DEPENDENT VARIABLE CP			
PHI			
.000	.0860	-.0323	-.3210
22.500	.0712	-.0235	-.3208
45.000	.0726	-.0227	-.3117
67.500			-.2888
90.000	.0957	-.0013	-.2816
112.500			-.2538
135.000	.1788	.0710	-.2228
157.500	.2408	.1217	-.1840

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TABLULATED SOURCE DATA, MSFC THT 567 (1A32F)
 MSFC 567(1A32F) T9 S3/2 S3/2 03 US SRM CONE

(R825C3)

DATE 05 SEP 75

MACH (1) = .600 ALPHA (4) = 5.000

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS .0433 .0722 .1013

PHI	CP
180.000	.2810
202.500	.3256
225.000	.3398
247.500	.2638
270.000	.1144
292.500	.0919
315.000	.0590
337.500	-.0323
360.000	-.3210

MACH (1) = .600 ALPHA (5) = 8.000 Q = 4.3384 PTA = 22.009 RL = 4.9920 PSA = 17.266

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS .0433 .0722 .1013

PHI	CP
0.000	-.0151
22.500	-.0135
45.000	-.0205
67.500	.0203
90.000	.1774
112.500	.2880
135.000	.3760
157.500	.4178
180.000	.4036
202.500	.1753
225.000	-.0224
247.500	-.0197
270.000	-.0151
292.500	-.3712
315.000	-.3529
337.500	-.3515
360.000	-.3457
	-.3246
	-.2734
	-.2094
	-.1350
	-.0723
	-.0221
	.0021
	.0315
	.1094
	.6043
	1.4848
	3.3542
	7.3712

LABULATED SOURCE DATA, MSFC TMT 067 (1A3BF)

DATE 06 SEP 78

(R26265)

MSFC 067(1A3BF) TO 63/2 63/2 03 US 5PM CONE

MACH (2) = .900 ALPHA (1) = -8.020 0 = 7.3710 PTA = 22.012 RL = 6.2720 PSA = 13.023

DEPENDENT VARIABLE CP

SECTION (1) 5PM 0005 CONE

X/L5	.0433	.0722	.1013
PM1 .000	.5518	.4408	.1852
22.500	.4302	.3190	.0809
45.000	.2870	.1869	-.0188
67.500		-.1048	
90.000	.0990	-.0082	-.1602
112.500		-.1815	
135.000	.0136	-.0684	-.1894
157.500	.0287	-.0785	-.2013
180.000	.0315	-.0680	-.2131
202.500	-.0078	-.1280	-.2885
225.000	-.0356	-.1956	-.4587
247.500		-.6388	
270.000	.1534	.1247	.0308
292.500		.3638	
315.000	.5373	.9403	.3219
337.500	.8006	.5289	.2725
360.000	.9518	.4408	.1852

MACH (2) = .900 ALPHA (2) = -5.000 0 = 7.3710 PTA = 22.012 RL = 6.2720 PSA = 13.023

DEPENDENT VARIABLE CP

SECTION (1) 5PM 0005 CONE

X/L5	.0433	.0722	.1013
PM1 .000	.4888	.3887	.1318
22.500	.3935	.2930	.0688
45.000	.2888	.2042	.0048
67.500		-.0452	
90.000	.1632	.0810	-.0877
112.500		-.1067	
135.000	.1214	.0343	-.1193
157.500	.1277	.0434	-.1149
180.000	.1253	.0323	-.1275
202.500	.1170	.0088	-.1782
225.000	.1260	.0087	-.2951
247.500		-.2873	
270.000	.8878	.8888	.1933
292.500		.3480	
315.000	.5038	.4821	.2982
337.500	.5228	.4528	.2073
360.000	.4888	.3887	.1318

MSFC 567(1A32F) 19 53/2 53/2 03 US SRM CONE

(R825C5)

MACH (2) = .900 ALPHA (3) = .000 Q = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.3288	.2435	.0330
22.500	.3018	.2172	.0181
45.000	.2730	.1968	-.0003
67.500		-.0104	
90.000	.2493	.1649	-.0150
112.500		-.0192	
135.000	.2482	.1602	-.0136
157.500	.2473	.1550	-.0278
180.000	.2622	.1577	-.0350
202.500	.2837	.1827	-.0335
225.000	.3223	.2324	-.0197
247.500		.0995	
270.000	.4109	.4189	.3517
292.500		.2368	
315.000	.4052	.3437	.0975
337.500	.3710	.2864	.0627
360.000	.3288	.2435	.0330

MACH (2) = .900 ALPHA (4) = 5.000 Q = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1934	.1157	-.0508
22.500	.1837	.1115	-.0540
45.000	.1845	.1105	-.0540
67.500		-.0578	
90.000	.2042	.1247	-.0420
112.500		-.0184	
135.000	.2068	.2041	.0150
157.500	.3072	.2530	.0448
180.000	.4171	.3099	.0813
202.500	.4503	.3546	.1132
225.000	.4870	.4107	.1688
247.500		.2895	
270.000	.3062	.3070	.3201
292.500		-.0153	
315.000	.2412	.1468	-.0889
337.500	.2082	.1212	-.0682
360.000	.1934	.1157	-.0508

TABLATED SOURCE DATA, MSFC TMT 967 (1A3EF)

DATE 08 SEP 75

MSFC 067(1A3EF) TO 53/2 53/2 03 US SRM CONE (R85CS3)

MACH (2) = .900 ALPHA (8) = 0.000 Q = 7.3710 PTA = 22.012 RL = 6.2720 PSA = 13.023

SECTION (1) SRM 8006 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.0275	.0254	-.1194
22.500	.0916	.0285	-.1115
45.000	.0788	.0160	-.1250
67.500	.1184	.0547	-.1027
90.000	.2072	.2034	.0133
112.500	.4076	.2963	.0730
135.000	.5017	.3828	.1358
157.500	.5387	.4440	.1876
180.000	.5247	.4776	.2454
202.500	.2939	.2773	.1987
225.000	.0888	-.0152	-.2630
247.500	.0883	-.0010	-.1510
270.000	.0575	.0254	-.1194

MACH (3) = 1.060 ALPHA (11) = -8.000 Q = 8.4402 PTA = 22.012 RL = 6.5720 PSA = 10.962

SECTION (1) SRM 8006 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.7034	.6090	.3878
22.500	.6031	.4887	.3007
45.000	.4844	.3757	.2042
67.500	.2376	.1847	.0634
90.000	.1867	.1240	.0231
112.500	.2121	.1355	.0298
135.000	.1988	.1240	.0065
157.500	.1735	.0839	-.0948
180.000	.1434	.0021	-.2320
202.500	.3028	.2825	.2269
225.000	.6728	.6887	.5101
247.500	.7427	.6886	.4693
270.000	.7034	.6090	.3878

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TABULATED SOURCE DATA, MSFC TMT 567 (11A32F)

DATE 05 SEP 75 MACH (3) = 1.050 ALPHA (2) = -5.000 0 = 8.4402 PTA = 22.012 RL = 6.5720 PSA = 30.982
MSFC 567(11A32F) TO 53/2 53/2 03 US SRM CONE (RB25C5)

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.6200	.5349	.3329
22.500	.5554	.4684	.2782
45.000	.4728	.3997	.2273
67.500		.1798	
90.000	.3389	.2741	.1440
112.500		.1188	
135.000	.2942	.2302	.1147
157.500	.2965	.2316	.1074
180.000	.2865	.2151	.0923
202.500	.2757	.1979	.0753
225.000	.2600	.1939	-.0255
247.500		-.0218	
270.000	.4138	.4295	.3568
292.500		.5058	
315.000	.6093	.6202	.4407
337.500	.6450	.6050	.4056
360.000	.6200	.5349	.3329

MACH (3) = 1.050 ALPHA (3) = .000 0 = 8.4402 PTA = 22.012 RL = 6.5720 PSA = 30.982

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.4823	.4140	.2442
22.500	.4836	.3967	.2327
45.000	.4405	.3731	.2195
67.500		.2107	
90.000	.4210	.3531	.2060
112.500		.2043	
135.000	.4189	.3493	.2030
157.500	.4233	.3507	.1964
180.000	.4119	.3531	.2050
202.500	.4256	.3756	.2095
225.000	.4931	.4206	.2165
247.500		.3241	
270.000	.5218	.5793	.5311
292.500		.4258	
315.000	.5181	.5080	.3990
337.500	.4916	.4545	.2755
360.000	.4823	.4140	.2442

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 03 SEP 75

MSFC 567(1A32F) TO 53/2 53/2 03 US SPM COME (RBC5C5)

MACH (3) = 1.050 ALPHA (4) = 5.000 Q = 6.4402 PTA = 22.012 RL = 6.5720 PSA = 10.962

SECTION (1) SPM 5005 COME DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
(PH)			
.000	.3329	.2766	.1361
22.500	.3305	.2716	.1466
45.000	.3229	.2663	.1412
67.500	.3185	.2602	.1495
90.000	.3185	.2582	.1660
112.500	.3185	.2582	.1619
135.000	.4534	.3818	.2214
157.500	.5078	.4264	.2495
180.000	.5365	.4710	.2875
202.500	.5531	.5148	.3187
225.000	.5464	.5531	.3659
247.500	.4536	.5169	.4666
270.000	.3371	.3690	.4748
292.500	.3103	.2827	.547
315.000	.3329	.2766	.1054
337.500	.3329	.2766	.1371
360.000	.3329	.2766	.1361

MACH (3) = 1.050 ALPHA (5) = 6.000 Q = 6.4402 PTA = 22.012 RL = 6.5720 PSA = 10.962

SECTION (1) SPM 5005 COME DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
(PH)			
.000	.2362	.1829	.0669
22.500	.2300	.1839	.0796
45.000	.2183	.1734	.0748
67.500	.2636	.2212	.0621
90.000	.2636	.2212	.0962
112.500	.4487	.3750	.2174
135.000	.5523	.4666	.2774
157.500	.6239	.5430	.3366
180.000	.6498	.6032	.3990
202.500	.6149	.6165	.4360
225.000	.3767	.4075	.5074
247.500	.2010	.1293	.3517
270.000	.2020	.1601	-.1481
292.500	.2362	.1829	-.086
315.000	.2362	.1829	.0377
337.500	.2362	.1829	.0377
360.000	.2362	.1829	.0669

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 53/2 53/2 03 US SRM CONE

(RB2SC5)

MACH (4) = 1.250 ALPHA (1) = -8.000 Q = 9.2798 PTA = 22.012 RL = 6.6900 PSA = 6.5490

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.6221	.6240	.4928
22.500	.5369	.5306	.4184
45.000	.4115	.4177	.3357
67.500			.2480
90.000	.1665	.2206	.1792
112.500			.1328
135.000	.0916	.1498	.1063
157.500	.1464	.1469	.0881
180.000	.1262	.1478	.0711
202.500	.1170	.1139	.0097
225.000	.1036	.0705	-.1446
247.500			-.1675
270.000	.2784	.4141	.4235
292.500			.6572
315.000	.5749	.6991	.6038
337.500	.6383	.6948	.5669
360.000	.6221	.6240	.4928

MACH (4) = 1.250 ALPHA (2) = -5.000 Q = 9.2798 PTA = 22.012 RL = 6.6900 PSA = 6.5490

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.4878	.5277	.4393
22.500	.4200	.4633	.3931
45.000	.3367	.3914	.3403
67.500			.2942
90.000	.1709	.2709	.2546
112.500			.2310
135.000	.0862	.2177	.2101
157.500	.1146	.2098	.1786
180.000	.1447	.2216	.1515
202.500	.1641	.2167	.1148
225.000	.2308	.2310	.0570
247.500			.1099
270.000	.3705	.5136	.5374
292.500			.6331
315.000	.4935	.6162	.5368
337.500	.5027	.5912	.4929
360.000	.4878	.5277	.4393

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 US SRM CONE (R825C5)

MACH (4) = 1.250 ALPHA (3) = .000 0 = 9.2788 PTA = 22.012 RL = 6.6900 PSA = 8.5490

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.2779	.3844	.3403
22.500	.2178	.3573	.3361
45.000	.1906	.3380	.3281
67.500		.3184	
90.000	.1635	.2812	.3154
112.500		.3102	
135.000	.1642	.2837	.3020
157.500	.2124	.3107	.2941
180.000	.2042	.3653	.3012
202.500	.2289	.3925	.3025
225.000	.2333	.4497	.3246
247.500		.4495	
270.000	.3003	.6138	.6470
292.500		.5073	
315.000	.2817	.4907	.3840
337.500	.2446	.4353	.3614
360.000	.2779	.3844	.3403

MACH (4) = 1.250 ALPHA (4) = 5.000 0 = 9.2788 PTA = 22.012 RL = 6.6900 PSA = 8.5490

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/L5	.0433	.0722	.1013
PHI			
.000	.1358	.1884	.2012
22.500	.0725	.1864	.2124
45.000	.0612	.2033	.2181
67.500		.2350	
90.000	.1573	.2281	.2559
112.500		.2877	
135.000	.3091	.3413	.3221
157.500	.3681	.4047	.3552
180.000	.4214	.4809	.3990
202.500	.4512	.5325	.4315
225.000	.4474	.5858	.4880
247.500		.6031	
270.000	.3573	.5420	.5786
292.500		.1647	
315.000	.1530	.2821	.1181
337.500	.1118	.2331	.1784
360.000	.1358	.1884	.2012

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TABULATED SOURCE DATA, MSFC THT 587 (1A32F)

DATE 05 SEP 75

MSFC 587(1A32F) T9 S3/2 S3/2 03 US SRM CONE (RBESCS)

MACH (4) = 1.250 ALPHA (6) = 0.000 Q = 9.2700 PTA = 22.012 RL = 0.6900 PSA = 0.5400

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	PHI
.0433	.0722 .1013
.0595	.0902 .0720
.0174	.1041 .0909
-.0148	.1013 .0576
.07.500	.1187
.1050	.1483 .1593
.3531	.3607 .3067
.4878	.4626 .3775
.5371	.5528 .4445
.5603	.6127 .4951
.5258	.6447 .5495
.2956	.4892 .5008
.0832	.1112 -.0820
.0594	.1293 .0501
.0595	.0982 .0720

MACH (5) = 3.500 ALPHA (1) = -8.000 Q = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	PHI
.0433	.0722 .1013
.4317	.3907 .3718
.3832	.3714 .3639
.3010	.3030 .3064
.1739	.1752 .1824
.1221	.1130 .1150
.1106	.0913 .0792
.0965	.0707 .0491
.0934	.0568 .0541
.0934	.0565 .0809
.1508	.1384 .1255
.3285	.2784 .3440
.4202	.3535 .4055
.4317	.3907 .3718

TABLATED SOURCE DATA, NSFC TMT 567 (1A32F)

NSFC 567(1A32F) T8 53/2 53/2 03 US SRM CONE (RBECS)

MACH (5) = 3.500 ALPHA (2) = -5.000 0 = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.3437	.3102	.2872
22.500	.3128	.3019	.2943
45.000	.2802	.2998	.2819
67.500		.2189	
90.000	.1820	.1857	.1888
112.500		.1648	
135.000	.1458	.1384	.1397
157.500	.1394	.1295	.1130
180.000	.1357	.1069	.0853
202.500	.1338	.0868	.0848
225.000	.1303	.0829	.0944
247.500		.1566	
270.000	.1958	.1330	.9334
292.500		.3116	
315.000	.2764	.2162	.3085
337.500	.3388	.2734	.2693
360.000	.3437	.3102	.2872

MACH (5) = 3.500 ALPHA (3) = .000 0 = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.2228	.1955	.1773
22.500	.2152	.2057	.1982
45.000	.2033	.2033	.1958
67.500		.1983	
90.000	.1918	.1879	.1878
112.500		.1972	
135.000	.1932	.1832	.1955
157.500	.2094	.1996	.1905
180.000	.2297	.1978	.1715
202.500	.2263	.1698	.1607
225.000	.2087	.1458	.1661
247.500		.2392	
270.000	.1715	.1668	.3478
292.500		.2571	
315.000	.2037	.1367	.2028
337.500	.2282	.1650	.1656
360.000	.2228	.1955	.1773

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82SC5)

MSFC 567(1A32F) T9 S3/2 S3/2 03 US SRM CONE

DATE 05 SEP 75

MACH (5) = 3.500 ALPHA (4) = 5.000 Q = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1)SRM 6005 CONE

X/L5 .0433 .0722 .1013

PHI	.000	.1384	.1204	.1116
22.500	.1420	.1308	.1210	.1104
45.000	.1529	.1482	.1404	.1354
67.500	.1651	.1622	.1584	.1544
90.000	.1785	.1775	.1747	.1719
112.500	.1930	.1920	.1892	.1864
135.000	.2085	.2075	.2047	.2019
157.500	.2250	.2240	.2212	.2184
180.000	.2425	.2415	.2387	.2359
202.500	.2610	.2600	.2572	.2544
225.000	.2805	.2795	.2767	.2739
247.500	.3010	.3000	.2972	.2944
270.000	.3225	.3215	.3187	.3159
292.500	.3450	.3440	.3412	.3384
315.000	.3685	.3675	.3647	.3619
337.500	.3930	.3920	.3892	.3864
360.000	.4185	.4175	.4147	.4119

MACH (5) = 3.500 ALPHA (5) = 6.000 Q = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1)SRM 6005 CONE

X/L5 .0433 .0722 .1013

PHI	.000	.0991	.0765	.0585
22.500	.1083	.0924	.0775	.0626
45.000	.1255	.1168	.1120	.1072
67.500	.1418	.1380	.1342	.1304
90.000	.1581	.1561	.1541	.1521
112.500	.1744	.1734	.1714	.1694
135.000	.1907	.1897	.1877	.1857
157.500	.2070	.2060	.2040	.2020
180.000	.2233	.2223	.2203	.2183
202.500	.2396	.2386	.2366	.2346
225.000	.2559	.2549	.2529	.2509
247.500	.2722	.2712	.2692	.2672
270.000	.2885	.2875	.2855	.2835
292.500	.3048	.3038	.3018	.2998
315.000	.3211	.3201	.3181	.3161
337.500	.3374	.3364	.3344	.3324
360.000	.3537	.3527	.3507	.3487

MSFC 567(1A3EF) T9 S3/2 S3/2 03 US SRM CONE

(RB2SC6) (24 APR 74)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .9720 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040 SCALE

PARAMETRIC DATA

ALPHA = .000 CONF10 = 90.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500

MACH (1) = .600 BETA (1) = -8.000 Q = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM BOOS CONE

X/LS .0433 .0722 .1013

PHI

.000 .2360 .1259 -.1607
 22.500 .2441 .1397 -.1406
 45.000 .2585 .1599 -.1289
 67.500 .2750 .1825
 90.000 .2937 .1612 -.1295
 112.500 .3147 .1577
 135.000 .3371 .0885 -.2001
 157.500 .3609 .0470 -.2509
 180.000 .3852 .0196 -.2817
 202.500 .4099 .0072 -.3178
 225.000 .4349 .0313 -.3545
 247.500 .4601 .2157 -.3186
 270.000 .4854 .2157 -.0649
 292.500 .5107 .1144
 315.000 .5360 .1607 -.1856
 337.500 .5613 .1255 -.1770
 360.000 .5866 .1259 -.1607

MACH (2) = .600 BETA (2) = -4.000 Q = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM BOOS CONE

X/LS .0433 .0722 .1013

PHI

.000 .2175 .1108 -.1904
 22.500 .2101 .1041 -.1828
 45.000 .2088 .1059 -.1853
 67.500 .2118 .0922 -.1913
 90.000 .2148 .0922 -.1995
 112.500 .2178 .0499 -.2074
 135.000 .2208 .0303 -.2385
 157.500 .2238 .0169 -.2596
 180.000 .2268 .0136 -.2871
 202.500 .2298 .0440 -.3200
 225.000 .2328 .0440 -.3523
 247.500 .2358 .2613 -.3131
 270.000 .2388 .2613 -.0574

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MSFC 567(1A32F) TO 53/2 53/2 03 US SRM CONE (R825C8)

MACH (1) = .600 BETA (2) = -.4.000
 SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP
 X/L/S .0433 .0722 .1013
 PHI
 292.500 -.1080
 315.000 .2728 .1773 -.1837
 337.500 .2510 .1397 -.1749
 360.000 .2175 .1108 -.1904
 MACH (1) = .600 BETA (3) = .000 0 = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP
 X/L/S .0433 .0722 .1013
 PHI
 .000 .2049 .0540 -.2095
 22.500 .1791 .0713 -.2275
 45.000 .1458 .0459 -.2515
 67.500 .1229 .0191 -.2749
 90.000 .1213 .0146 -.2818
 112.500 .1230 .0093 -.2904
 135.000 .1338 .0078 -.2979
 160.000 .1482 .0148 -.3165
 202.500 .1645 .0513 -.3479
 247.500 .2753 .2341 -.0613
 292.500 .2875 .1905 -.1735
 315.000 .2583 .1452 -.1726
 337.500 .2049 .0540 -.2095
 360.000 .2049 .0540 -.2095
 MACH (1) = .600 BETA (4) = 4.000 0 = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP
 X/L/S .0433 .0722 .1013
 PHI
 .000 .1871 .0785 -.2202
 22.500 .1417 .0329 -.2610
 45.000 .1043 -.0002 -.2920
 67.500 .0619 -.0195 -.3106
 90.000 .0646 -.0228 -.3094
 112.500 .0952 -.0116 -.3012
 135.000 .0952 -.0116 -.3012
 157.500 .0952 -.0116 -.3012

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R825CB)

DATE 05 SEP 75

MSFC 567(1A32F) TO 53/2 53/2 03 US SRM CONE

MACH (1) = .600 BETA (4) = 4.000

SECTION (1) SRM 6005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
160.000	.1170	-.0023	-.2991
202.500	.1491	.0251	-.3034
225.000	.1982	.0688	-.3225
247.500		-.2746	
270.000	.3036	.2539	-.0498
292.500		-.0988	
315.000	.3160	.2184	-.1449
337.500	.2680	.1553	-.1615
360.000	.1871	.0765	-.2202

MACH (1) = .600 BETA (5) = 8.000 Q = 4.3694 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM 6005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.1596	.0496	-.2467
22.500	.0946	-.0156	-.3116
45.000	.0508	-.0563	-.3430
67.500		-.3563	
90.000	.0268	-.0729	-.3581
112.500		-.3550	
135.000	.0367	-.0689	-.3425
157.500	.0508	-.0584	-.3429
180.000	.0956	-.0174	-.3058
202.500	.1520	.0368	-.2803
225.000	.2209	.1002	-.2775
247.500		-.2962	
270.000	.3385	.2781	-.0257
292.500		-.0550	
315.000	.3520	.2548	-.1641
337.500	.2806	.1691	-.1487
360.000	.1596	.0496	-.2467

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TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) 19 S3/2 S3/2 03 US SRM CONE (R825C6)

MACH (2) = .900 BETA (1) = -8.000 Q = 7.3620 PTA = 22.011 RL = 6.2700 PSA = 13.039

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5 .0433 .0722 .1013

PHI	.000	.3245	.2399	.0351
	22.500	.3328	.2493	.0481
	45.000	.3481	.2683	.0653
	67.500			.0780
	90.000	.3488	.2709	.0741
	112.500			.0583
	135.000	.3002	.2100	.0230
	157.500	.2749	.1798	-.0121
	180.000	.2593	.1548	-.0431
	202.500	.2617	.1590	-.0551
	225.000	.2688	.2037	-.0409
	247.500			.0778
	270.000	.3688	.3905	.3432
	292.500			.2176
	315.000	.3595	.3058	.0676
	337.500	.3374	.2580	.0360
	360.000	.3245	.2399	.0351

MACH (2) = .800 BETA (2) = -4.000 Q = 7.3620 PTA = 22.011 RL = 6.2700 PSA = 13.039

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5 .0433 .0722 .1013

PHI	.000	.3350	.2510	.0427
	22.500	.3192	.2360	.0420
	45.000	.3091	.2282	.0333
	67.500			.0328
	90.000	.2937	.2122	.0270
	112.500			.0202
	135.000	.2778	.1939	.0128
	157.500	.2690	.1769	-.0127
	180.000	.2638	.1609	-.0325
	202.500	.2734	.1724	-.0403
	225.000	.3056	.2171	-.0259
	247.500			.0862
	270.000	.3919	.4085	.3508
	292.500			.2366
	315.000	.3874	.3300	.0905
	337.500	.3618	.2800	.0579
	360.000	.3350	.2510	.0427

TABULATED SOURCE DATA, MSFC TMT 887 (1A3ZF)

MSFC 887(1A3ZF) T9 S3/2 S3/2 03 US SRM CONE

(R825C8)

PSA = 13.039

RL = 6.2700

PTA = 22.011

PTA = 7.3820

BETA (3) = .000 0

BETA (4) = .000 0

DATE 08 SEP 75

MACH (2) = .900 BETA (3) = .000 0

DEPENDENT VARIABLE CP

SECTION (1) SRM 8006 CONE

X/L3 .0433 .0722 .1013

Phi	.000	.3288	.2435	.0330
22.500	.3018	.2172	.0181	
45.000	.2730	.1888	-.0003	
67.500		-.0104		
90.000	.2483	.1648	-.0150	
112.500		-.0182		
135.000	.2482	.1602	-.0135	
157.500	.2473	.1550	-.0278	
180.000	.2622	.1577	-.0350	
202.500	.2837	.1827	-.0335	
225.000	.3223	.2324	-.0157	
247.500		.0995		
270.000	.4108	.4188	.3517	
292.500		.2368		
315.000	.4052	.3437	.0975	
337.500	.3710	.2884	.0627	
360.000	.3288	.2435	.0330	

MACH (2) = .900 BETA (4) = .000 0

PTA = 7.3820

PTA = 22.011

RL = 6.2700

PSA = 13.039

DEPENDENT VARIABLE CP

SECTION (1) SRM 8006 CONE

X/L3 .0433 .0722 .1013

Phi	.000	.3280	.2377	.0335
22.500	.2749	.1888	-.0104	
45.000	.2388	.1508	-.0420	
67.500		-.0514		
90.000	.2023	.1171	-.0251	
112.500		-.0534		
135.000	.173	.1288	-.0400	
157.500	.2202	.1248	-.0508	
180.000	.2488	.1477	-.0373	
202.500	.2874	.1949	-.0228	
225.000	.3352	.2445	-.0032	
247.500		.0978		
270.000	.4388	.4332	.3477	
292.500		.2687		
315.000	.4511	.3811	.1478	
337.500	.4088	.3257	.1050	
360.000	.3280	.2377	.0335	

TABULATED SOURCE DATA, MFEC TNT 587 (1A32F)

MFEC 587(1A32F) T8 S3/2 S3/2 03 US 587 CONE (R825C8)

DATE 06 SEP 75

MACH (2) = .900 META (5) = 8.000 Q = 7.3820 PTA = 22.011 RL = 8.2700 PSA = 13.039

SECTION (1) 587 8005 CONE DEPENDENT VARIABLE CP

X/LS	PHI	META (1)	Q	PTA	RL	PSA
.000	.3187	.2288	.0244			
22.500	.2448	.1523	-.0308			
45.000	.1886	.0843	-.0681			
67.500	.1483	.0737	-.0922			
90.000	.1125	.0730	-.0922			
112.500	.0883	.0730	-.0922			
135.000	.0717	.0652	-.0777			
157.500	.0631	.0583	-.0583			
180.000	.0548	.0518	-.0421			
202.500	.0475	.0468	-.0304			
225.000	.0412	.0438	-.0222			
247.500	.0358	.0412	-.0164			
270.000	.0312	.0391	-.0119			
292.500	.0272	.0372	-.0084			
315.000	.0238	.0358	-.0058			
337.500	.0212	.0348	-.0042			
360.000	.0192	.0342	-.0032			

SECTION (1) 587 8006 CONE DEPENDENT VARIABLE CP

X/LS	PHI	META (1)	Q	PTA	RL	PSA
.000	.4818	.3004	.2385			
22.500	.4062	.4040	.2470			
45.000	.4081	.4241	.2659			
67.500	.4038	.4384	.2872			
90.000	.4032	.4532	.3087			
112.500	.4023	.4683	.3298			
135.000	.4013	.4833	.3503			
157.500	.4003	.4983	.3708			
180.000	.4019	.5133	.3912			
202.500	.4024	.5283	.4117			
225.000	.4028	.5433	.4322			
247.500	.4032	.5583	.4527			
270.000	.4036	.5733	.4732			
292.500	.4040	.5883	.4937			
315.000	.4044	.6033	.5142			
337.500	.4048	.6183	.5347			
360.000	.4052	.6333	.5552			

TABLATED SOURCE DATA, MSFC THT 967 (1A3ZF)

(R625CB)

MSFC 967(1A3ZF) TO S3/2 S3/2 03 US SRH CONE

PSA • 10.908

RL • 6.5780

PTA • 22.008

Q • 8.4834

BETA (2) • 1.060

MACH (3) • 1.060

DEPENDENT VARIABLE CP

SECTION (1) SRH 800S CONE

X/L5	.0433	.0722	.1013
PHI	.4788	.4117	.2424
.000	.4854	.4058	.2448
22.500	.4850	.4051	.2448
45.000	.4535	.3737	.2481
67.500	.4302	.3719	.2278
90.000	.4307	.3583	.2089
112.500	.4157	.3432	.1914
135.000	.4082	.3325	.1873
157.500	.4038	.3276	.1850
180.000	.4024	.3260	.1824
202.500	.4017	.3254	.1807
225.000	.4012	.3248	.1792
247.500	.4008	.3244	.1780
270.000	.4005	.3241	.1770
292.500	.4003	.3239	.1762
315.000	.4002	.3238	.1756
337.500	.4001	.3237	.1751
360.000	.4000	.3236	.1747

MACH (3) • 1.060 BETA (3) • .000 Q • 8.4834

PTA • 22.008

RL • 6.5780

PSA • 10.908

DEPENDENT VARIABLE CP

SECTION (1) SRH 800S CONE

X/L5	.0433	.0722	.1013
PHI	.4823	.4140	.2442
.000	.4838	.3987	.2327
22.500	.4405	.3731	.2185
45.000	.4210	.3531	.2060
67.500	.4186	.3493	.2030
90.000	.4233	.3507	.1984
112.500	.4119	.3531	.2050
135.000	.4256	.3756	.2095
157.500	.4231	.4208	.2185
180.000	.4218	.4208	.2241
202.500	.4218	.4218	.2298
225.000	.4218	.4218	.2358
247.500	.4218	.4218	.2418
270.000	.4218	.4218	.2478
292.500	.4218	.4218	.2538
315.000	.4218	.4218	.2598
337.500	.4218	.4218	.2658
360.000	.4218	.4218	.2718

TABLULATED SOURCE DATA, MSFC TWT 567 (1A32F)

(R82506)

MSFC 567(1A32F) T9 53/2 53/2 03 US SRM CONE

MACH (3) = 1.050 BETA (4) = 4.000 Q = 8.4534 PTA = 22.009 RL = 6.5780 PSA = 10.568

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.4771	.4155	.2451
22.500	.4356	.3743	.2129
45.000	.4058	.3445	.1878
67.500		.1767	
90.000	.3779	.3137	.1719
112.500			.1705
135.000	.3810	.3168	.1767
157.500	.3981	.3250	.1790
180.000	.3953	.3425	.2026
202.500	.4179	.3711	.2108
225.000	.4484	.4135	.2213
247.500			.3058
270.000	.5238	.5723	.5293
292.500			.4515
315.000	.5425	.5304	.3403
337.500	.5176	.4762	.3047
350.000	.4771	.4155	.2451

MACH (3) = 1.050 BETA (5) = 8.000 Q = 8.4534 PTA = 22.009 RL = 6.5780 PSA = 10.568

SECTION (1) SRM 8005 CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.4581	.4078	.2495
22.500	.3988	.3433	.1859
45.000	.3537	.2957	.1451
67.500			.1365
90.000	.3274	.2694	.1292
112.500			.1355
135.000	.3368	.2784	.1438
157.500	.3464	.2935	.1579
180.000	.3684	.3349	.2048
202.500	.3924	.3726	.2297
225.000	.4165	.4122	.2416
247.500			.3163
270.000	.4721	.5508	.5189
292.500			.4450
315.000	.5179	.5253	.3545
337.500	.5076	.4899	.3372
350.000	.4581	.4078	.2495

TABLULATED SOURCE DATA, MSFC TMT 567 (11A32F)

(R825C6)

DATE 05 SEP 75

MSFC 567(1A32F) 19 53/2 53/2 03 US SRM CONE

MACH (4) = 1.250 BETA (1) = -8.000 0 = 9.2830 PTA = 22.009 RL = 6.6660 PSA = 8.5280

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.4042	.4115	.3268
22.500	.4009	.4179	.3515
45.000	.4148	.4380	.3749
67.500		.3954	
90.000	.4312	.4628	.4143
112.500		.3910	
135.000	.4081	.4195	.3670
157.500	.3976	.3933	.3339
180.000	.3825	.3832	.3079
202.500	.4257	.3995	.2992
225.000	.4457	.4407	.3117
247.500		.4380	
270.000	.5067	.5961	.6399
292.500		.4831	
315.000	.4741	.4717	.3392
337.500	.4475	.4239	.3123
360.000	.4042	.4115	.3268

MACH (4) = 1.250 BETA (2) = -4.000 0 = 9.2830 PTA = 22.009 RL = 6.6660 PSA = 8.5280

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.3619	.3930	.3381
22.500	.3224	.3887	.3463
45.000	.3092	.3878	.3519
67.500		.3546	
90.000	.2914	.3886	.3599
112.500		.3500	
135.000	.2899	.3733	.3359
157.500	.2901	.3623	.3127
180.000	.3052	.3600	.3009
202.500	.3939	.3780	.2899
225.000	.4297	.4297	.3053
247.500		.4292	
270.000	.4898	.5912	.6380
292.500		.5009	
315.000	.4675	.4768	.3642
337.500	.4294	.4260	.3416
360.000	.3619	.3930	.3381

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TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 US SRM CONE

(RB25C6)

MACH (4) = 1.250 BETA (3) = .000 Q = 9.2830 PTA = 22.309 RL = 6.6880 PSA = 8.5280

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSE CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.2779	.3844	.3403
22.500	.2178	.3573	.3361
45.000	.1906	.3380	.3281
67.500		.3184	.3184
90.000	.1635	.2812	.3154
112.500		.3102	.3102
135.000	.1842	.2937	.3020
157.500	.2124	.3107	.2941
180.000	.2042	.3653	.3012
202.500	.2289	.3925	.3025
225.000	.2553	.4497	.3246
247.500		.4495	.4495
270.000	.3003	.6138	.6470
292.500		.5073	.5073
315.000	.2617	.4907	.3940
337.500	.2446	.4353	.3514
360.000	.2778	.3844	.3403

MACH (4) = 1.250 BETA (4) = .000 Q = 9.2830 PTA = 22.009 RL = 6.6880 PSA = 8.5280

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOSE CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.3355	.3848	.3436
22.500	.2422	.3414	.3115
45.000	.1632	.3097	.2831
67.500		.2610	.2610
90.000	.1095	.2961	.2553
112.500		.2442	.2442
135.000	.1302	.2874	.2419
157.500	.1735	.2923	.2463
180.000	.2061	.3074	.2545
202.500	.2625	.3487	.2666
225.000	.3433	.4106	.2897
247.500		.4059	.4059
270.000	.4184	.5926	.6384
292.500		.5466	.5466
315.000	.4333	.5174	.4260
337.500	.4090	.4560	.3917
360.000	.3355	.3848	.3436

TABULATED SOURCE DATA, MSFC TWT 567 (11A32F)

DATE 05 SEP 75

MSFC 567(11A32F) TO 53/2 53/2 03 US SRM CONE (R82SC6)

MACH (4) = 1.250 BETA (5) = 0.000 Q = 0.2830 PTA = 22.009 RL = 6.6880 PSA = 0.5280

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.2506	.3352	.3336
22.500	.1922	.2791	.2753
45.000	.1484	.2340	.2272
67.500			.2061
90.000	.0886	.1943	.2029
112.500			.1964
135.000	.1057	.2119	.2119
157.500	.1554	.2364	.2176
180.000	.1644	.2753	.2406
202.500	.2297	.3328	.2686
225.000	.2776	.4058	.3054
247.500			.4186
270.000	.3497	.5661	.6349
292.500			.5306
315.000	.3783	.4813	.4224
337.500	.3435	.4256	.3967
360.000	.2506	.3352	.3336

MACH (5) = 3.500 BETA (1) = -8.000 Q = 5.7176 PTA = 50.018 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/LS	.0433	.0722	.1013
PHI			
.000	.3346	.3092	.2696
22.500	.3734	.3538	.3382
45.000	.3842	.3805	.3734
67.500			.3955
90.000	.3860	.3975	.4019
112.500			.3921
135.000	.3698	.3660	.3637
157.500	.3585	.3380	.3190
180.000	.3325	.2845	.2453
202.500	.3123	.2334	.2235
225.000	.2752	.2072	.2343
247.500			.3857
270.000	.2294	.2131	.8021
292.500			.4520
315.000	.2727	.2064	.2483
337.500	.3146	.2355	.2334
360.000	.3549	.3052	.2686

TABLULATED SOURCE DATA, MSFC TNT 567 (1A32F)

(R825C8)

MSFC 567(1A32F) T9 S3/2 S3/2 03 U5 SRM CONE

MACH (5) = 3.500 BETA (2) = -4.000 Q = 5.7178 PTA = 50.018 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.2903	.2510	.2219
22.500	.2906	.2750	.2622
45.000	.2869	.2845	.2805
67.500		.2889	.2889
90.000	.2798	.2876	.2899
112.500		.2852	.2852
135.000	.2747	.2708	.2713
157.500	.2778	.2612	.2470
180.000	.2677	.2295	.1994
202.500	.2596	.1917	.1808
225.000	.2349	.1670	.2022
247.500		.2759	.2759
270.000	.1957	.1707	.5258
292.500		.2891	.2891
315.000	.2329	.1656	.2157
337.500	.2681	.1961	.1927
360.000	.2903	.2510	.2219

MACH (5) = 3.500 BETA (3) = .000 Q = 5.7178 PTA = 50.018 RL = 5.3300 PSA = .67500

SECTION (1) SRM BOOS CONE DEPENDENT VARIABLE CP

X/LS	.0433	.0722	.1013
PHI			
.000	.2226	.1965	.1773
22.500	.2152	.2057	.1962
45.000	.2033	.2033	.1996
67.500		.1983	.1983
90.000	.1916	.1979	.1979
112.500		.1972	.1972
135.000	.1932	.1932	.1955
157.500	.2094	.1996	.1905
180.000	.2297	.1976	.1715
202.500	.2263	.1698	.1607
225.000	.2087	.1458	.1651
247.500		.2392	.2392
270.000	.1715	.1668	.3478
292.500		.2571	.2571
315.000	.2037	.1367	.2026
337.500	.2292	.1650	.1556
360.000	.2226	.1955	.1773

TABULATED SOURCE DATA, MSFC TNT 567 (1A32F)

(RESC6)

MSFC 567(1A32F) T9 53/2 53/2 03 U5 SRM CONE

MACH (5) = 3.500 BETA (4) = 4.000 Q = 5.7176 PTA = 50.018 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.1832	.1741	.1775
22.500	.1631	.1570	.1577
45.000	.1437	.1423	.1423
67.500		.1335	.1335
90.000	.1274	.1291	.1295
112.500		.1274	.1274
135.000	.1295	.1278	.1328
157.500	.1512	.1445	.1445
180.000	.1789	.1539	.1512
202.500	.1803	.1668	.1763
225.000	.1722	.1989	.1709
247.500		.1347	.1347
270.000	.1512	.2152	.1441
292.500		.1323	.1323
315.000	.1749	.2228	.1878
337.500	.1962	.1945	.2131
360.000	.1832	.1741	.1775

MACH (5) = 3.500 BETA (5) = 8.000 Q = 5.7176 PTA = 50.018 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS CONE

X/L5	.0433	.0722	.1013
PHI			
.000	.1590	.1695	.1651
22.500	.1194	.1218	.1259
45.000	.0907	.0934	.0920
67.500		.0768	.0768
90.000	.0727	.0751	.0707
112.500		.0706	.0706
135.000	.0785	.0778	.0805
157.500	.1052	.1066	.1069
180.000	.1478	.1462	.1465
202.500	.1763	.1854	.1729
225.000	.2334	.2037	.0609
247.500		.0450	.0450
270.000	.2920	.0910	.1715
292.500		.0545	.0545
315.000	.2771	.2493	.0602
337.500	.2270	.2348	.2057
360.000	.1590	.1695	.1651

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TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(R82551) (24 APR 74)

MSFC 567(1A32F) T9 53/2 53/2 03 SRM SHROUD

PARAMETRIC DATA

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN. BETA = .000 CONFIG = 90.000
 LREF = 5.3130 IN. YMRP = .9720 IN. DELTAZ = .140 RUDDER = .000
 BREF = 5.3130 IN. ZMRP = .0000 IN. X-SRB = .000 ORBINC = .500
 SCALE = .0040 SCALE

MACH (1) = .600 ALPHA (1) = -10.000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238
 MACH (2) = .600 ALPHA (2) = -8.000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS SHROUD

X/LS .9555

PHI
 .000 .1319
 22.500 .1762
 45.000 .1711
 67.500 .1175
 90.000 .0372
 112.500 -.0202
 135.000 -.0361
 157.500 -.0289
 180.000 -.0563
 202.500 .1170
 225.000 .2492
 247.500 .2527
 270.000 .1713
 292.500 .1171
 315.000 -.0352
 337.500 .0451
 360.000 .1319

MACH (1) = .600 ALPHA (2) = -8.000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238
 MACH (2) = .600 ALPHA (2) = -8.000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS SHROUD

X/LS .9555

PHI
 .000 .1328
 22.500 .1762
 45.000 .1701
 67.500 .1193
 90.000 .0613
 112.500 .0177
 135.000 .0018
 157.500 .0046
 180.000 -.0139
 202.500 .0730
 225.000 .2259
 247.500 .2445
 270.000 .1646

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R85511)

DATE 05 SEP 75

MSFC 567(1A32F): T0 53/2 53/2 03 SRM 5/AROLD

MACH (1) = .600 ALPHA (4) = -2.000

SECTION (1) SRM 8005 S/AROLD DEPENDENT VARIABLE CP

X/LS .9555

PHI
180.000
.1382
202.500
.1701
225.000
.1930
247.500
.1895
270.000
.1271
292.500
.0900
315.000
-.0182
337.500
.0539
360.000
.1081

MACH (1) = .600 ALPHA (5) = .000 0 = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM 8005 S/AROLD DEPENDENT VARIABLE CP

X/LS .9555

PHI
.000
.0882
22.500
.1170
45.000
.1295
67.500
.1208
90.000
.1301
112.500
.1474
135.000
.1611
157.500
.1768
180.000
.1714
202.500
.1860
225.000
.1946
247.500
.1965
270.000
.1355
292.500
.0761
315.000
-.0172
337.500
.0485
360.000
.0882

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 53/2 53/2 03 SRM S#600

DATE 05 SEP 75

U .5611

PSA = 17.238

5.0011

RL

PTA = 22.010

4.3618

Q

ALPHA (6) =

.600

MACH (1) =

.600

SECTION (1) SRM 6005 S#600

DEPENDENT VARIABLE CP

X/L5 .9225

PHI	.000	.0621
22.500	.0971	
45.000	.1004	
67.500	.0968	
90.000	.1144	
112.500	.1412	
135.000	.1624	
157.500	.1931	
180.000	.2046	
202.500	.2152	
225.000	.2224	
247.500	.2090	
270.000	.1219	
292.500	.0791	
315.000	-.0210	
337.500	.0225	
360.000	.0521	

5.0011

RL

PTA = 22.010

4.3618

Q

ALPHA (7) =

.600

MACH (1) =

.600

SECTION (1) SRM 6005 S#600

DEPENDENT VARIABLE CP

X/L5 .9225

PHI	.000	.0543
22.500	.0627	
45.000	.0368	
67.500	.0489	
90.000	.0768	
112.500	.1151	
135.000	.1601	
157.500	.2083	
180.000	.2360	
202.500	.2622	
225.000	.2673	
247.500	.2342	
270.000	.1005	
292.500	.0755	
315.000	-.0106	
337.500	.0044	
360.000	.0543	

PSA = 17.238

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(R82551)

MSFC 567(1A32F) T9 S3/2 93/2 03 SRM SHROUD

MACH (1) = .600 ALPHA (8) = 8.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5 .9555

PHI	.000	.0787
22.500	.0354	
45.000	-.0166	
67.500	-.0052	
90.000	.0141	
112.500	.0645	
135.000	.1443	
157.500	.2140	
180.000	.2767	
202.500	.3069	
225.000	.3072	
247.500	.2776	
270.000	.1000	
292.500	-.0599	
315.000	-.0035	
337.500	.0063	
360.000	.0787	

MACH (1) = .600 ALPHA (9) = 10.000 Q = 4.3618 PTA = 22.010 RL = 5.0011 PSA = 17.238

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5 .9555

PHI	.000	.0736
22.500	.0137	
45.000	-.0558	
67.500	-.0370	
90.000	-.0307	
112.500	.0245	
135.000	.1200	
157.500	.2133	
180.000	.2917	
202.500	.3300	
225.000	.3388	
247.500	.2936	
270.000	.1571	
292.500	.0691	
315.000	-.0218	
337.500	.0012	
360.000	.0736	

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 53/2 03 SRM SHROUD (R825S1)

MACH (2) = .900 ALPHA (1) = -10.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.1908
22.500	.2486	
45.000	.2272	
67.500	.1592	
90.000	.0654	
112.500	-.0009	
135.000	-.0187	
157.500	-.0118	
180.000	-.0480	
202.500	.1172	
225.000	.2627	
247.500	.2115	
270.000	.0458	
292.500	.0530	
315.000	-.0546	
337.500	.0838	
360.000	.1908	

MACH (2) = .900 ALPHA (2) = -8.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.1970
22.500	.2521	
45.000	.2322	
67.500	.1730	
90.000	.1003	
112.500	.0480	
135.000	.0252	
157.500	.0238	
180.000	-.0039	
202.500	.0915	
225.000	.2416	
247.500	.2169	
270.000	.0751	
292.500	.0716	
315.000	-.0438	
337.500	.0939	
360.000	.1970	

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TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROUD (R82551)

MACH (2) = .900 ALPHA (3) = -5.000 0 = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.965

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/L5 .9535

PHI	.000
	.1753
22.500	.2283
45.000	.2214
67.500	.1878
90.000	.1668
112.500	.1276
135.000	.1063
157.500	.1027
180.000	.0680
202.500	.0855
225.000	.1798
247.500	.1879
270.000	.0897
292.500	.0680
315.000	-.0312
337.500	.0992
360.000	.1753

MACH (2) = .900 ALPHA (4) = -2.000 0 = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.965

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/L5 .9535

PHI	.000
	.1656
22.500	.2022
45.000	.1983
67.500	.2065
90.000	.1968
112.500	.1868
135.000	.1918
157.500	.1841
180.000	.1641
202.500	.1584
225.000	.1543
247.500	.1501
270.000	.0923
292.500	.0755
315.000	-.0201
337.500	.0975
360.000	.1655

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM S+ROUD (R825511)

MACH (2) = .900 ALPHA (5) = .000 Q = 7.3909 PTA = 22.307 RL = 6.2778 PSA = 12.965

SECTION (1) SRM 8005 S+ROUD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	.000
	.1208
22.500	.1520
45.000	.1803
67.500	.1851
90.000	.1871
112.500	.2108
135.000	.2344
157.500	.2463
180.000	.2112
202.500	.1832
225.000	.1669
247.500	.1493
270.000	.0944
292.500	.0744
315.000	-.0142
337.500	.0307
350.000	.1208

MACH (2) = .900 ALPHA (6) = 2.000 Q = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.965

SECTION (1) SRM 8005 S+ROUD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	.0849
	.1175
22.500	.1387
45.000	.1561
67.500	.1850
90.000	.2230
112.500	.2579
135.000	.2883
157.500	.2711
180.000	.2461
202.500	.2233
225.000	.1769
247.500	.0934
270.000	.0818
292.500	-.0189
315.000	.0525
337.500	.0849
350.000	.0849

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROUD (RBCSS1)

MACH (2) = .800 ALPHA (7) = 5.000 0 = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/L S .0595

PHI	X/L S
.000	.0527
22.500	.0939
45.000	.0694
67.500	.0677
90.000	.1260
112.500	.1988
135.000	.2596
157.500	.3027
180.000	.3179
202.500	.3158
225.000	.2854
247.500	.2150
270.000	.0850
292.500	.0770
315.000	-.0162
337.500	.0234
360.000	.0527

MACH (2) = .900 ALPHA (8) = 8.000 0 = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.985

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/L S .0555

PHI	X/L S
.000	.0717
22.500	.0462
45.000	.0333
67.500	.0022
90.000	.0479
112.500	.1331
135.000	.2319
157.500	.3309
180.000	.3952
202.500	.3970
225.000	.3444
247.500	.2433
270.000	.0791
292.500	.0596
315.000	-.0107
337.500	.0213
360.000	.0717

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82551)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROUD

MACH (2) = .900 ALPHA (9) = 10.000 0 = 7.3909 PTA = 22.007 RL = 6.2778 PSA = 12.3625

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .5633

PHI	CP
.000	.0416
22.500	-.0312
45.000	-.0465
67.500	-.0574
90.000	-.0192
112.500	.0750
135.000	.2054
157.500	.3290
180.000	.4092
202.500	.4282
225.000	.3859
247.500	.2721
270.000	.0618
292.500	-.0451
315.000	-.0332
337.500	.0082
350.000	.0416

MACH (3) = 1.050 ALPHA (1) = -10.000 0 = 8.4371 PTA = 22.007 RL = 6.5777 PSA = 12.362

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	CP
.000	.2481
22.500	.3155
45.000	.3379
67.500	.2661
90.000	..51
112.500	.0752
135.000	.0498
157.500	.0546
180.000	.0333
202.500	.2213
225.000	.2296
247.500	.1326
270.000	-.0071
292.500	.0294
315.000	-.0816
337.500	.1186
350.000	.2481

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TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) 19 53/2 53/2 03 SRM SHROUD (RBESS1)

MACH (3) = 1.050 ALPHA (2) = -8.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.592

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000
.2648	.2648
22.500	.3345
45.000	.3331
67.500	.2937
90.000	.2083
112.500	.1257
135.000	.0921
157.500	.0870
180.000	.0827
202.500	.1884
225.000	.2600
247.500	.1679
270.000	.0398
292.500	.0461
315.000	-.0590
337.500	.1281
360.000	.2648

MACH (3) = 1.050 ALPHA (3) = -8.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.592

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000
.2640	.2640
22.500	.3408
45.000	.3488
67.500	.3022
90.000	.2608
112.500	.2191
135.000	.1813
157.500	.1648
180.000	.1317
202.500	.1427
225.000	.2266
247.500	.2012
270.000	.0931
292.500	.0927
315.000	-.0346
337.500	.1318
360.000	.2640

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROUD (R82SS1)

MACH (3) = 1.050 ALPHA (4) = -2.000 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	.000
	.2387
	.3229
	.3189
	.3114
	.3025
	.2946
	.2903
	.2777
	.2461
	.2218
	.2052
	.1899
	.1341
	.1161
	-.0093
	.1245
	.2387

MACH (3) = 1.020 ALPHA (5) = 000 Q = 0.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	.000
	.2096
	.2834
	.3132
	.3193
	.3140
	.3237
	.3491
	.3616
	.3140
	.2749
	.2293
	.2129
	.1544
	.1304
	.0087
	.1191
	.2096

TABLULATED SOURCE DATA, MSFC TWT 567 (1A32F)

DATE 05 SEP 75

(R82551)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRH SHROUD

PSA = 10.992

RL = 6.5711

PTA = 22.007

ALPHA (6) = 8.4371

2.000 0

MACH (3) = 1.050

DEPENDENT VARIABLE CP

SECTION (1) SRH 8005 SHROUD

X/L5 .9555

PHI	.000
	.1775
	.2949
	.2965
	.2860
	.2937
	.3294
	.3758
	.4049
	.3774
	.3253
	.2872
	.2441
	.1628
	.1475
	.0202
	.1038
	.1775

PSA = 10.992

RL = 6.5711

PTA = 22.007

ALPHA (7) = 8.4371

5.000 0

MACH (3) = 1.050

DEPENDENT VARIABLE CP

SECTION (1) SRH 8005 SHROUD

X/L5 .9555

PHI	.000
	.1500
	.2149
	.1811
	.1803
	.2306
	.3048
	.3828
	.4261
	.4298
	.4134
	.3518
	.2811
	.1452
	.1296
	.0253
	.0797
	.1500

TABLULATED SOURCE DATA, MSFC TNT 567 (1A32F)

(RB25S1)

MSFC 567(1A32F) T9 53/2 53/2 03 SRM SHROUD

DATE 05 SEP 75

MACH (3) = 1.020 ALPHA (8) = 8.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS SHROUD

X/L5 .9555

PHI	.000	.1485
22.500	.1371	
45.000	.0994	
67.500	.0998	
90.000	.1531	
112.500	.2542	
135.000	.3662	
157.500	.4670	
180.000	.5216	
202.500	.5179	
225.000	.4160	
247.500	.3176	
270.000	.1579	
292.500	.1301	
315.000	.0243	
337.500	.0666	
360.000	.1465	

MACH (3) = 1.050 ALPHA (8) = 10.000 Q = 8.4371 PTA = 22.007 RL = 6.5711 PSA = 10.992

DEPENDENT VARIABLE CP

SECTION (1) SRM BOOS SHROUD

X/L5 .9555

PHI	.000	.1219
22.500	.0541	
45.000	.0501	
67.500	.0405	
90.000	.0920	
112.500	.2103	
135.000	.3519	
157.500	.4812	
180.000	.5625	
202.500	.5637	
225.000	.4771	
247.500	.3539	
270.000	.1370	
292.500	.1246	
315.000	.0231	
337.500	.0558	
360.000	.1219	

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TABLULATED SOURCE DATA, MSFC INT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROUD (RB2551)

MACH (4) = 1.250 ALPHA (1) = -10.000 Q = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9535

PHI
.000
.2508
.3365
.3569
.3261
.2196
.0698
.0632
.0491
.0450
.2169
.1921
.0778
-.0366
-.0237
-.1356
.1358
.2508

MACH (4) = 1.250 ALPHA (2) = -8.000 Q = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9535

PHI
.000
.2575
.3468
.3561
.3163
.2180
.1139
.0880
.0802
.0548
.2110
.2219
.1214
.0104
.0148
-.1281
.1397
.2575

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 09 SEP 75

MSFC 567(1A32F) T9 S3/2 53/2 03 SRM SHROUD (R82551)

MACH (4) = 1.250 ALPHA (3) = -5.000 0 = 9.2926 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.9595	.2418
.000	.2418
22.500	.3290
45.000	.3496
67.500	.3035
90.000	.2518
112.500	.2062
135.000	.1680
157.500	.1665
180.000	.1244
202.500	.1604
225.000	.2160
247.500	.1505
270.000	.0619
292.500	.0532
315.000	-.1207
337.500	.1210
360.000	.2418

MACH (4) = 1.250 ALPHA (4) = -2.000 0 = 9.2926 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.9595	.2107
.000	.2107
22.500	.3090
45.000	.3317
67.500	.3080
90.000	.2917
112.500	.2753
135.000	.2458
157.500	.2270
180.000	.1899
202.500	.1715
225.000	.1394
247.500	.1192
270.000	.0806
292.500	.0630
315.000	-.1284
337.500	.0923
360.000	.2107

TABLULATED SOURCE DATA, MSFC TNT 567 (11A32F)

MSFC 567(11A32F) T9 53/2 53/2 03 SRM SHROUD (R82551)

MACH (4) = 1.250 ALPHA (5) = .000 0 = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5 .9555

PHI	.000
	.1930
	.2954
	.3167
	.3223
	.3090
	.2896
	.2781
	.2714
	.2368
	.2119
	.1592
	.1398
	.1052
	.0843
	-.1222
	.0781
	.1930

MACH (4) = 1.250 ALPHA (6) = 7.000 0 = 9.2826 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5 .9525

PHI	.000
	.1859
	.2816
	.3207
	.3033
	.2901
	.2753
	.2761
	.3051
	.3009
	.2635
	.1826
	.1639
	.1342
	.1118
	-.0736
	.0751
	.1859

TABLULATED SOURCE DATA, MSFC TNT 567 (1A32F)

DATE 05 SEP 75

MSFC 967(1A32F) T9 53/2 53/2 03 SRM S4ROLD (R82551)

MACH (4) = 1.250 ALPHA (7) = 5.000 0 = 9.2928 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM 8005 S4ROLD DEPENDENT VARIABLE CP

X/L5 .9555

PHI	.000
	.1779
	.2714
	.2700
	.1898
	.2117
	.2638
	.3323
	.3685
	.3777
	.3564
	.2812
	.2125
	.1692
	.1435
	.0211
	.0745
	.1779



MACH (4) = 1.250 ALPHA (8) = 8.000 0 = 9.2928 PTA = 22.006 RL = 6.6822 PSA = 8.4788

SECTION (1) SRM 8005 S4ROLD DEPENDENT VARIABLE CP

X/L5 .9555

PHI	.000
	.1271
	.1656
	.0802
	.1168
	.1680
	.2406
	.3590
	.4429
	.4708
	.4529
	.3302
	.2249
	.1486
	.1341
	.0155
	.0337
	.1271

TABLATED SOURCE DATA, MSFC THT 567 (11A32F)

DATE 05 SEP 75

MSFC 567(11A32F) T9 53/2 53/2 03 SRM SHROUD (R82551)

MACH (4) = 1.250 ALPHA (9) = 10.000 0 = 9.2926 PTA = 22.008 RL = 6.6922 PSA = 8.4788

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9655

PHI	.000	.0698
22.500	.0732	
45.000	.0312	
67.500	.0545	
90.000	.1335	
112.500	.2387	
135.000	.3750	
157.500	.4733	
180.000	.5232	
202.500	.4943	
225.000	.3480	
247.500	.2301	
270.000	.1210	
292.500	.1080	
315.000	.0089	
337.500	.0058	
360.000	.0698	

MACH (5) = 1.460 ALPHA (1) = -10.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 8.3619

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9655

PHI	.000	.3167
22.500	.3948	
45.000	.3624	
67.500	.3140	
90.000	.1508	
112.500	.0300	
135.000	.0412	
157.500	.0232	
180.000	.0595	
202.500	.2326	
225.000	.1624	
247.500	.0525	
270.000	-.0249	
292.500	.0000	
315.000	-.0829	
337.500	.2353	
360.000	.3157	

TABLATED SOURCE DATA, MSFC THT 567 (1A3ZF)

DATE 05 SEP 75

MSFC 567(1A3ZF) T9 53/2 53/2 03 SRM SHROUD (RBESS1)

MACH (5) = 1.480 ALPHA (2) = -8.000 Q = 9.4738 PTA = 22.01 RL = 6.5300 PSA = 6.3619

SECTION (1) SRM 6005 SHROUD DEPENDENT VARIABLE CP

X/LS	.9595
PHI	.000
	.3230
	.4071
	.3879
	.3026
	.1905
	.1069
	.0992
	.0916
	.0849
	.2441
	.1955
	.0995
	.0289
	.0281
	.315.000
	-.0752
	.2231
	.3230

MACH (5) = 1.480 ALPHA (3) = -5.000 Q = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

SECTION (1) SRM 6005 SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	.000
	.3062
	.3883
	.3744
	.3279
	.2765
	.2254
	.1907
	.1703
	.1390
	.1556
	.1973
	.1226
	.0947
	.0591
	-.0699
	.2097
	.3052

TABULATED SOURCE DATA. MSFC TWT 567 (1A32F)

DATE 05 SEP 75

(R62551)

MSFC 567(1A32F) T9 53/2 53/2 03 SRM S#R00D

PSA • 6.3619

MACH (5) = 1.460 ALPHA (4) = -2.000 0 = 9.4738 PTA = 22.009 RL = 6.5300

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 S#R00D

X/LS .9955

PHI	.000	.2903
	22.500	.3840
	45.000	.3810
	67.500	.3516
	90.000	.3259
	112.500	.3022
	135.000	.2797
	157.500	.2492
	180.000	.1958
	202.500	.1804
	225.000	.1511
	247.500	.1351
	270.000	.1310
	292.500	.0857
	315.000	-.0946
	337.500	.1690
	360.000	.2903

MACH (5) = 1.460 ALPHA (5) = .000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (2) SRM 8005 S#R00D

X/LS .9955

PHI	.000	.3050
	22.500	.3938
	45.000	.3796
	67.500	.3536
	90.000	.3304
	112.500	.3143
	135.000	.3006
	157.500	.2740
	180.000	.2340
	202.500	.1837
	225.000	.1254
	247.500	.1287
	270.000	.1350
	292.500	.0755
	315.000	-.0934
	337.500	.1625
	360.000	.3050

DATE 05 SEP 75

TABULATED SOURCE DATA, MSFC INT 567 (1A32F)

MSFC 367(1A32F) TS 53/2 53/2 03 SRM SHROUD (RB2551)
MACH (5) = 1.460 ALPHA (6) = 2.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 5.3519

SECTION (1) SRM 6005 SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.9555	.000
.3099	.3099
.5907	.5907
.3789	.45000
.3513	.67500
.3171	.90000
.3021	112.500
.2844	135.000
.2652	157.500
.2738	180.000
.2268	202.500
.1539	225.000
.1951	247.500
.1615	270.000
.1040	292.500
-.0515	315.000
.1680	337.500
.3099	360.000

MACH (5) = 1.460 ALPHA (7) = 5.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 5.3519

SECTION (1) SRM 6005 SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.9555	.000
.3099	.3099
.5907	.5907
.3789	.45000
.3513	.67500
.3171	.90000
.3021	112.500
.2844	135.000
.2652	157.500
.2738	180.000
.2268	202.500
.1539	225.000
.1951	247.500
.1615	270.000
.1040	292.500
-.0515	315.000
.1680	337.500
.3099	360.000

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TABULATED SOURCE DATA, MSFC TNT 567 (1A32F)

DATE OF SEP 75

(P82551)

MSFC 567(1A32F) T9 53/2 53/2 03 SRM SHROUD

MACH (5) = 1.460 ALPHA (8) = 8.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 SHROUD

X/L5 .9555

PMI
.000
.2268
.3148
.2530
.1614
.2044
.3142
.3734
.4309
.4395
.4110
.2756
.2229
.2234
.1621
.0629
.1499
.2256

MACH (5) = 1.460 ALPHA (8) = 10.000 0 = 9.4738 PTA = 22.009 RL = 6.5300 PSA = 6.3619

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 SHROUD

X/L5 .9555

PMI
.000
.1665
.2563
.1356
.1536
.2009
.3058
.3842
.4720
.4920
.4433
.2871
.2209
.2210
.1638
.0429
.1265
.1655

MSFC 567(1A32F) T9 53/2 53/2 03 SRM S-RP-000 (RECESS)

MACH (6) = 1.860 ALPHA (1) = -8.000 0 = 10.290 PTA = 27.998 RL = 7.0998 PSA = 3.8675

SECTION (1) SRM 1005 S-RP-000 DEPENDENT VARIABLE CP

4/LS .9553

PHI	CP
.000	.2775
22.500	.2606
45.000	.1658
67.500	.1229
90.000	.0947
112.500	.0717
135.000	.0558
157.500	-.0591
180.000	.0151
202.500	.2338
225.000	.1106
247.500	.0510
270.000	.0733
292.500	-.1065
315.000	-.1150
337.500	.2247
360.000	.2775

MACH (5) = 1.860 ALPHA (2) = -5.000 0 = 10.290 PTA = 27.998 RL = 7.0998 PSA = 3.8675

SECTION (1) SRM 8005 S-RP-000 DEPENDENT VARIABLE CP

4/LS .9553

PHI	CP
.000	.2922
22.500	.2831
45.000	.2574
67.500	.1688
90.000	.1535
112.500	.1555
135.000	.1411
157.500	.1254
180.000	.0574
202.500	.1942
225.000	.0988
247.500	.1011
270.000	.1213
292.500	-.0942
315.000	.1517
337.500	.2473
360.000	.2922

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TABLATED SOURCE DATA, MSFC THT 567 (11A32F)

MSFC 58711A32F T9 S3/2 S3/2 C5 SRM SHROUD 198255(1)

MACH (6) = 1.960 ALPHA (3) = -2.000 Q = 10.290 PTA = 27.698 RL = 7.0986 PSA = 3.8676

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X1/S .9553

PHI	.000
22.500	.3034
45.000	.3211
67.500	.2242
90.000	.2177
112.500	.2618
135.000	.2724
157.500	.2343
180.000	.1893
202.500	.1758
225.000	.1678
247.500	.1295
270.000	.1595
292.500	.1608
315.000	-.0596
337.500	-.0572
360.000	.2934
	.3034

MACH (6) = 1.960 ALPHA (4) = .000 Q = 10.290 PTA = 27.698 RL = 7.0986 PSA = 3.8676

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X1/S .9555

PHI	.000
22.500	.3287
45.000	.3241
67.500	.1901
90.000	.2758
112.500	.3221
135.000	.3044
157.500	.2417
180.000	.2224
202.500	.2145
225.000	.1651
247.500	.1515
270.000	.1575
292.500	-.0424
315.000	-.0485
337.500	.2503
360.000	.3287

DATE 05 SEP 75 TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82551)

MSFC 567(1A32F) T9 53/2 53/2 03 SRM SHROUD

MACH (8) = 1.860 ALPHA (5) = 2.000 Q = 10.260 PTA = 27.998 RL = 7.098E PSA = 3.8676

SECTION (1)SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	.000
	.3330
	22.500
	.1671
	45.000
	.2256
	67.500
	.3048
	90.000
	.3167
	112.500
	.2575
	135.000
	.2873
	157.500
	.3197
	180.000
	.2663
	202.500
	.1605
	225.000
	.1005
	247.500
	.1435
	270.000
	.1520
	292.500
	-.0505
	315.000
	-.0795
	337.500
	.0925
	360.000
	.3330

MACH (8) = 1.860 ALPHA (6) = 5.000 Q = 10.260 PTA = 27.998 RL = 7.098E PSA = 3.8676

SECTION (1)SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	.000
	.1973
	22.500
	.1758
	45.000
	.2682
	67.500
	.2781
	90.000
	.2534
	112.500
	.3149
	135.000
	.3643
	157.500
	.3097
	180.000
	.3120
	202.500
	.2802
	225.000
	.1983
	247.500
	.2097
	270.000
	.2230
	292.500
	.0936
	315.000
	.0578
	337.500
	.1115
	360.000
	.1973

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TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROUD (R825S1)

MACH (6) = 1.960 ALPHA (7) = 8.000 0 = 10.290 PTA = 27.998 RL = 7.0986 PSA = 3.8676

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .8995

PHI	.000	.1978
22.500	.2303	
45.000	.3365	
67.500	.1005	
90.000	.2369	
112.500	.2793	
135.000	.3397	
157.500	.3584	
180.000	.3730	
202.500	.3687	
247.500	.2380	
270.000	.2487	
292.500	.1830	
315.000	.1391	
337.500	.1472	
360.000	.1976	

MACH (7) = 2.950 ALPHA (1) = -8.000 0 = 5.1854 PTA = 30.018 RL = 4.1186 PSA = .32971

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9595

PHI	.000	.0986
22.500	.0692	
45.000	.0412	
67.500	.0111	
90.000	-.0207	
112.500	-.0294	
135.000	-.0346	
157.500	-.0457	
180.000	-.0558	
202.500	.1313	
225.000	.0390	
247.500	.0129	
270.000	.2234	
292.500	-.0093	
315.000	-.0425	
337.500	.0338	
360.000	.0986	

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TABLULATED SOURCE DATA, MSFC THT 567 (11A32F)

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MSFC 567(1A32F) T9 53/2 53/2 03 SRM SHROUD (R82551)

MACH (7) = 2.980 ALPHA (2) = -5.000 0 = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) SRM 800E SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	.000
	.0951
22.500	.0772
45.000	.0712
67.500	.0656
90.000	.0601
112.500	.0544
135.000	.0484
157.500	.0422
180.000	.0362
202.500	.0297
225.000	.0246
247.500	.0198
270.000	.0151
292.500	-.0263
315.000	-.0252
337.500	.0345
360.000	.0951

MACH (7) = 2.980 ALPHA (3) = -2.000 0 = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) SRM 800S SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	.000
	.1007
22.500	.0968
45.000	.1205
67.500	.1701
90.000	.1961
112.500	.1757
135.000	.1481
157.500	.1195
180.000	.0908
202.500	.1038
225.000	.0845
247.500	.0652
270.000	.0550
292.500	-.0503
315.000	.0014
337.500	.0375
360.000	.1007

TABLULATED SOURCE DATA, MSFC THT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROUD (R82551)

MACH (7) = 2.983 ALPHA (4) = .000 0 = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5 .9555

PHI	.000	.1075
22.500	.1265	
45.000	.1924	
67.500	.2638	
90.000	.2524	
112.500	.1905	
135.000	.1664	
157.500	.1601	
180.000	.1534	
202.500	.1321	
225.000	.0675	
247.500	.0841	
270.000	.0669	
292.500	-.0420	
315.000	.0025	
337.500	.0573	
360.000	.1075	

MACH (7) = 2.980 ALPHA (5) = 2.000 0 = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5 .9555

PHI	.000	.1340
22.500	.1749	
45.000	.2938	
67.500	.2908	
90.000	.2126	
112.500	.2279	
135.000	.2253	
157.500	.2397	
180.000	.1999	
202.500	.1485	
225.000	.0802	
247.500	.0859	
270.000	.0528	
292.500	-.0308	
315.000	-.0108	
337.500	.0852	
360.000	.1340	

DATE 05 SEP 75 TABULATED SOURCE DATA. MSFC TWT 567 (1A.2F)

MSFC 567(1A.2F) T9 53/2 53/2 03 SRM S+ROLD (R82551)

MACH (7) = 2.980 ALPHA (8) = 5.000 Q = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) SRM 8005 S+ROLD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.1635
	22.500	.2401
	45.000	.3180
	67.500	.2394
	90.000	.2226
	112.500	.2349
	135.000	.2364
	157.500	.2424
	180.000	.2435
	202.500	.2457
	225.000	.1633
	247.500	.1354
	270.000	.1391
	292.500	.0720
	315.000	.0034
	337.500	.1320
	360.000	.1635

MACH (7) = 2.980 ALPHA (7) = 8.000 Q = 5.1894 PTA = 30.018 RL = 4.1186 PSA = .82971

SECTION (1) SRM 8005 S+ROLD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.2147
	22.500	.2875
	45.000	.1842
	67.500	.1352
	90.000	.1528
	112.500	.1693
	135.000	.2151
	157.500	.2654
	180.000	.2964
	202.500	.3203
	225.000	.2050
	247.500	.1631
	270.000	.1737
	292.500	.0509
	315.000	.0877
	337.500	.1919
	360.000	.2147

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TABLATED SOURCE DATA, MSFC INT 567 (11A32F)

DATE 05 SEP 75

(R825511)

MSFC 567(11A32F) T9 S3/2 S3/2 03 SRM S-PROUD

MACH (8) = 3.500 ALPHA (1) = -8.000 0 = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 S-PROUD

X/L/S .9695

PHI	.000
	.1262
22.500	.0871
45.000	.0628
67.500	.0261
90.000	-.0134
112.500	-.0263
135.000	-.0293
157.500	-.0398
180.000	-.0442
202.500	.0382
225.000	.0494
247.500	.0084
270.000	.0839
292.500	-.0127
315.000	-.0270
337.500	.0508
360.000	.1262

MACH (8) = 3.500 ALPHA (2) = -5.000 0 = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 S-PROUD

X/L/S .9695

PHI	.000
	.1198
22.500	.0981
45.000	.0849
67.500	.0687
90.000	.0447
112.500	.0257
135.000	.0325
157.500	.0359
180.000	.0372
202.500	.0555
225.000	.0738
247.500	.0629
270.000	.0693
292.500	-.0019
315.000	-.0215
337.500	.0477
360.000	.1198

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R82551)

MSFC 537(1A32F) TO 53/2 53/2 03 SRM SHROUD

MACH (8) = 3.500 ALPHA (3) = -2.000 0 = 5.7173 PTA = 50.016 PSA = .67500

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.1120
22.500	.2209	
45.000	.1756	
67.500	.1219	
90.000	.1424	
112.500	-.0330	
135.000	.1448	
157.500	.1340	
180.000	-.0544	
202.500	.1677	
225.000	.2662	
247.500	.0785	
270.000	.0788	
292.500	.0059	
315.000	-.0320	
337.500	-.0097	
360.000	.1120	

MACH (8) = 3.500 ALPHA (4) = .000 0 = 5.7173 PTA = 50.016 PSA = .67500

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.1130
22.500	.1275	
45.000	.1808	
67.500	.2417	
90.000	.2207	
112.500	.1609	
135.000	.1552	
157.500	.1426	
180.000	.1281	
202.500	.1169	
225.000	.0559	
247.500	.0713	
270.000	.0331	
292.500	-.0355	
315.000	.0128	
337.500	-.0639	
360.000	.1130	

TABLULATED SOURCE DATA, MSFC TWT 967 (1A32F)

DATE 05 SEP 75

MSFC 587(1A32F) T9 53/2 53/2 03 SRM S#R000 (RB2551)

MACH (8) = 3.500 ALPHA (5) = 2.000 Q = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .57500

SECTION (1) SRM 8005 S#R000 DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.1357
22.500	.1729	
45.000	.2815	
67.500	.2470	
90.000	.2108	
112.500	.2054	
135.000	.1986	
157.500	.2040	
180.000	.1857	
202.500	.1421	
225.000	.0739	
247.500	.0704	
270.000	.0338	
292.500	-.0327	
315.000	-.0097	
337.500	.0785	
360.000	.1357	

MACH (8) = 3.500 ALPHA (6) = 5.000 Q = 5.7173 PTA = 50.016 RL = 5.3300 PSA = .57500

SECTION (1) SRM 8005 S#R000 DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.1790
22.500	.2121	
45.000	.2554	
67.500	.1972	
90.000	.1898	
112.500	.1654	
135.000	.2243	
157.500	.2314	
180.000	.2344	
202.500	.2135	
225.000	.1282	
247.500	.1120	
270.000	.1116	
292.500	.0223	
315.000	.0318	
337.500	.1519	
360.000	.1790	

MSFC 567(1A32F) TO 53/2 53/2 03 SRM SHROUD (R82551)

MACH (8) = 3.500 ALPHA (7) = 6.000 Q = 5.7173 PTA = 50.016 PSA = .57500

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.9255	.000
.9255	.1583
.9255	.1925
.9255	.1557
.9255	.1319
.9255	.1451
.9255	.1543
.9255	.2030
.9255	.2409
.9255	.2659
.9255	.2896
.9255	.2091
.9255	.1401
.9255	.1578
.9255	.0075
.9255	.0991
.9255	.1968
.9255	.1593

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) 19 53/2 53/2 03 SRM SHROUD

(FB2552) (24 APR 74)

REFERENCE DATA

SREF = 6.1980 SO. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .9720 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040 SCALE

PARAMETRIC DATA

ALPHA = .000 CDNF13 = 50.000
 DELTAZ = .140 RLCDES = .000
 X-SRB = .000 CFBINC = .000
 RL = 22.007 PTA = 22.007
 RLS = 4.95E-3 PSA = 17.25

MACH (1) = .600 BETA (1) = -10.000 Q = 4.3481
 MACH (2) = .600 BETA (2) = -8.000 Q = 4.3481

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000
	.1041
	.1733
	.2179
	.2423
	.2452
	.2084
	.1412
	.0569
	.0141
	-.0123
	.0394
	.0761
	.0313
	.0708
	-.0347
	.0358
	.1041

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000
	.1015
	.1694
	.2062
	.2221
	.2231
	.1939
	.1483
	.0842
	.0332
	.0313
	.0700
	.1000
	.0992

TABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(PB2552)

DATE 05 SEP 75

MSFC 5671A32F T9 S3/2 S3/2 03 SRM SPROUD

MACH (1) = .600 BETA (2) = -8.000

SECTION (1) SRM 8005 SPROUD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	
292.500	.0602
315.000	-.0402
337.500	.0271
350.000	.1015

MACH (1) = .600 BETA (3) = -4.000 0 = 4.3481 PTA = 22.007 RL = 4.9943 FSA = 17.251

SECTION (1) SRM 8005 SPROUD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	
.000	.0966
22.500	.1553
45.000	.1694
67.500	.1757
90.000	.1848
112.500	.1721
135.000	.1604
157.500	.1418
180.000	.1072
202.500	.1112
225.000	.1277
247.500	.1447
270.000	.1351
292.500	.0884
315.000	-.0160
337.500	.0339
350.000	.0965

MACH (1) = .500 BETA (4) = .000 0 = 4.3481 PTA = 22.007 RL = 4.9943 FSA = 17.251

SECTION (1) SRM 8005 SPROUD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	
.000	.0882
22.500	.1170
45.000	.1295
67.500	.1203
90.000	.1301
112.500	.1474
135.000	.1611

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TABLATED SOURCE DATA, MSFC TMT 587 (11A32F)

(R8552)

DATE 05 SEP 75

MSFC 587(11A32F) TO 53/2 53/2 03 SRM SPROUD

MACH (1) = .600 BETA (4) = .000

SECTION (1) SRM 8005 SPROUD DEPENDENT VARIABLE CP

X/LS .0250

PHI	PHI
180.000	.1714
202.500	.1660
225.000	.1648
247.500	.1668
270.000	.1326
292.500	.0781
315.000	-.0172
337.500	.0485
360.000	.0682

MACH (1) = .600 BETA (5) = 4.000 Q = 4.3481 PTA = 22.007 FL = 4.9943 PSA = 17.251

SECTION (1) SRM 8005 SPROUD DEPENDENT VARIABLE CP

X/LS .0250

PHI	PHI
.000	.0578
22.500	.0927
45.000	.0916
67.500	.0733
90.000	.1135
112.500	.1078
135.000	.1357
157.500	.1767
180.000	.2115
202.500	.2727
225.000	.2818
247.500	.2250
270.000	.0442
292.500	.1878
315.000	-.1484
337.500	.0428
360.000	.0578

TABLULATED SOURCE DATA, MSFC TMT 567 (11A32F)

DATE 05 SEP 75

MSFC 567(11A32F) T9 53/2 53/2 03 SRM S+ROUD (R82552)

MACH (1) = .600 BETA (6) = 4.3481 PTA = 22.007 RL = 4.8943 PSA = 17.251

SECTION (1) SRM 8005 S+ROUD DEPENDENT VARIABLE CP

X/L/S .9555

PHI	.000	.0134
	22.500	.0188
	45.000	.0163
	67.500	.0380
	90.000	.0464
	112.500	.0628
	135.000	.0919
	157.500	.1486
	180.000	.2715
	202.500	.3644
	225.000	.3167
	247.500	.2110
	270.000	.0235
	292.500	.0118
	315.000	-.0868
	337.500	-.0185
	360.000	.0134

MACH (1) = .600 BETA (7) = 10.000 0 = 4.3481 PTA = 22.007 RL = 4.8943 PSA = 17.251

SECTION (1) SRM 8005 S+ROUD DEPENDENT VARIABLE CP

X/L/S .9555

FHI	.000	.3224
	22.500	.0180
	45.000	.0081
	67.500	.0260
	90.000	.0243
	112.500	.0428
	135.000	.0716
	157.500	.1395
	180.000	.2811
	202.500	.3822
	225.000	.2658
	247.500	.1942
	270.000	.0149
	292.500	-.0132
	315.000	-.1042
	337.500	-.0322
	360.000	.0224

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

DATE 05 SEP 75

(R82552)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROUD

MACH (2) = .900 BETA (3) = -.4.000 0 • 7.3664 PTA • 22.004 RL • 6.5414 PSA • 13.022

SECTION (1) SRM 800S SHROUD DEPENDENT VARIABLE CP

SECTION (1) SRM 800S SHROUD

X/LS .9555

PHI	.000	.1620
22.500	.2210	
45.000	.2516	
67.500	.2667	
90.000	.2662	
112.500	.2539	
135.000	.2306	
157.500	.1915	
180.000	.1491	
202.500	.1182	
225.000	.1170	
247.500	.1331	
270.000	.1191	
292.500	.0845	
315.000	-.0058	
337.500	.0919	
360.000	.1620	

MACH (2) = .900 BETA (4) = .000 0 • 7.3664 PTA • 22.004 RL • 6.5414 PSA • 13.022

SECTION (1) SRM 800S SHROUD DEPENDENT VARIABLE CP

SECTION (1) SRM 800S SHROUD

X/LS .9555

PHI	.000	.1208
22.500	.1520	
45.000	.1803	
67.500	.1851	
90.000	.1871	
112.500	.2108	
135.000	.2344	
157.500	.2463	
180.000	.2112	
202.500	.1832	
225.000	.1669	
247.500	.1493	
270.000	.0944	
292.500	.0744	
315.000	-.0142	
337.500	.0807	
360.000	.1208	

MFPC 587(1A3EF) TO 93/2 93/2 03 SRM SHROUD (R2552)

MACH (2) = .900 BETA (5) = 4.000 Q = 7.3684 PTA = 22.004 RL = 6.5414 PSA = 13.022

SECTION (1) SRM 8008 SHROUD DEPENDENT VARIABLE CP

X/L5	PHI
.0000	.0574
.0500	.0635
.1000	.1110
.1500	.1034
.2000	.1517
.2500	.1724
.3000	.1991
.3500	.2583
.4000	.2686
.4500	.3248
.5000	.2658
.5500	.2022
.6000	.0214
.6500	.0223
.7000	-.0577
.7500	-.0053
.8000	.0574

MACH (2) = .900 BETA (6) = 8.000 Q = 7.3684 PTA = 22.004 RL = 6.5414 PSA = 13.022

SECTION (1) SRM 8008 SHROUD DEPENDENT VARIABLE CP

X/L5	PHI
.0000	.0300
.0500	.0335
.1000	.0246
.1500	.0396
.2000	.0932
.2500	.1178
.3000	.1784
.3500	.2487
.4000	.3471
.4500	.3688
.5000	.2048
.5500	.2244
.6000	.0415
.6500	.0288
.7000	-.1116
.7500	-.0134
.8000	.0300

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 53/2 53/2 03 SRM SHROUD (R82552)

MACH (2) = .800 BETA (7) = 10.000 Q = 7.3664 PTA = 22.004 RL = 6.5414 PSA = 13.022

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI
.000
.0279
.0482
.0290
.0301
.0632
.0933
.1439
.2408
.3759
.3879
.2834
.2078
-.0432
-.0331
-.1657
-.0591
.0279

MACH (3) = 1.050 BETA (11) = -10.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (11) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI
.000
.2958
.4064
.4428
.4552
.4501
.4000
.3097
.1951
.0926
.0548
.1322
.1629
.1693
.1450
.0502
.1669
.2958

TABULATED SOURCE DATA, MSFC TMT 887 (1A32F)

DATE 06 SEP 78

MSFC 887(1A32F) TO 83/2 S3/2 03 SRM SHROUD (082552)

MACH (3) = 1.050 BETA (2) = -8.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .0000

PHI	.000
.2500	.2989
.3000	.3857
.4000	.4286
.5000	.4333
.6000	.4253
.7000	.3917
.8000	.3229
.9000	.2321
1.0000	.1412
1.1000	.0901
1.2000	.1310
1.3000	.1678
1.4000	.1718
1.5000	.1145
1.6000	.0217
1.7000	.1681
1.8000	.2689

MACH (3) = 1.050 BETA (3) = -4.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .0000

PHI	.2042
.2500	.3779
.3000	.3768
.4000	.3695
.5000	.3829
.6000	.3650
.7000	.3482
.8000	.3052
.9000	.2337
1.0000	.1927
1.1000	.1735
1.2000	.1933
1.3000	.1865
1.4000	.1511
1.5000	-.0098
1.6000	.1524
1.7000	.2642

TABLATED SOURCE DATA, MSFC THT 557 (1A32F)

DATE 05 SEP 75

MSFC 557(1A32F) T8 53/2 53/2 03 SRM SHROUD (R825S2)

MACH (3) = 1.050 BETA (4) = .000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (1) SRM EXOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.2098
22.500	.2834	
45.000	.3132	
67.500	.3193	
90.000	.3140	
112.500	.3237	
135.000	.3491	
157.500	.3816	
180.000	.3140	
202.500	.2748	
225.000	.2293	
247.500	.2129	
270.000	.1944	
292.500	.1304	
315.000	.0087	
337.500	.1191	
360.000	.2056	

MACH (3) = 1.050 BETA (5) = 4.000 Q = 8.4447 PTA = 22.007 RL = 6.8571 PSA = 10.975

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .8255

PHI	.000	.1073
22.500	.1572	
45.000	.1819	
67.500	.1870	
90.000	.2185	
112.500	.2710	
135.000	.2860	
157.500	.3654	
180.000	.3829	
202.500	.3706	
225.000	.3261	
247.500	.2597	
270.000	.0673	
292.500	.0549	
315.000	-.0190	
337.500	.0394	
360.000	.1073	

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TABLULATED SOURCE DATA, NSFC TMT 567 (1A32F)

NSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROUD (M82SS2)

DATE 06 SEP 75

MACH (3) = 1.050 BETA (6) = 0.000 Q = 0.4447 PTA = 22.007 RL = 0.0571 PSA = 10.975

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .0055

PHI	.000
22.500	.1271
45.000	.1179
67.500	.1245
90.000	.1700
112.500	.2160
135.000	.2782
157.500	.3568
180.000	.3503
202.500	.3978
225.000	.3212
247.500	.2503
270.000	.0113
292.500	.0210
315.000	-.0902
337.500	-.0125
360.000	.0908

MACH (3) = 1.050 BETA (7) = 10.000 Q = 0.4447 PTA = 22.007 RL = 0.0571 PSA = 10.975

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .0055

PHI	.000
22.500	.0234
45.000	.0764
67.500	.1180
90.000	.1405
112.500	.1998
135.000	.2007
157.500	.2441
180.000	.3241
202.500	.4160
225.000	.4335
247.500	.3210
270.000	.2316
292.500	-.0511
315.000	-.0139
337.500	-.0944
360.000	-.0487
	.0234

DATE 05 SEP 75

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TG 53/2 53/2 03 SRM SHROUD (R82552)

MACH (4) = 1.250 BETA (1) = -10.000 0 = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	.9526
PHI	.4037
.000	.4663
22.500	.4630
45.000	.4459
67.500	.4299
90.000	.3748
112.500	.2782
135.000	.1609
157.500	.0387
180.000	.0013
202.500	.0875
225.000	.1254
247.500	.1609
270.000	.1388
292.500	-.0533
315.000	.2446
337.500	.4037
360.000	

MACH (4) = 1.250 BETA (2) = -8.000 0 = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	.3963
.000	.4678
22.500	.4535
45.000	.4311
67.500	.4085
90.000	.3676
112.500	.2851
135.000	.1839
157.500	.0747
180.000	.0374
202.500	.0806
225.000	.1131
247.500	.1355
270.000	.1102
292.500	-.0979
315.000	.2404
337.500	.3963
360.000	

MACH (4) = 1.250 BETA (3) = -4.000 Q = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 0.5301
 MSFC 687(1A32F) TO 53/2 53/2 03 SRM SHROUD (982552)

SECTION (1) SRM 8008 SHROUD DEPENDENT VARIABLE CP

X/L5	PHI	PHI
.9555	.000	.3188
	28.500	.4138
	45.000	.3041
	67.500	.3733
	90.000	.3042
	112.500	.3120
	135.000	.2885
	157.500	.2157
	180.000	.1738
	202.500	.1249
	225.000	.1049
	247.500	.1152
	270.000	.1158
	292.500	.0780
	315.000	-.1748
	337.500	.1838
	360.000	.3188

MACH (4)	BETA (3)	Q	PTA	RL	PSA
1.250	-4.000	9.2803	22.005	6.9757	0.5301

SECTION (1) SRM 8008 SHROUD DEPENDENT VARIABLE CP

X/L5	PHI	PHI
.9555	.000	.1838
	22.500	.2824
	45.000	.3187
	67.500	.3223
	90.000	.3090
	112.500	.2888
	135.000	.2781
	157.500	.2714
	180.000	.2368
	202.500	.2119
	225.000	.1922
	247.500	.1388
	270.000	.1052
	292.500	.0843
	315.000	-.1222
	337.500	.0781
	360.000	.1838

TABLATED SOURCE DATA, MSFC TNT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROU (R82552)

MACH (4) = 1.250 BETA (9) = 4.000 0 = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1)SRM 5005 SHROU DEPENDENT VARIABLE CP

X/LS .9595

PHI	.000	.1223
22.500	.1947	
45.000	.2051	
67.500	.2105	
90.000	.2242	
112.500	.2422	
135.000	.2417	
157.500	.2908	
180.000	.3597	
202.500	.3664	
225.000	.2823	
247.500	.1939	
270.000	.0544	
292.500	.0547	
315.000	-.0808	
337.500	.0139	
360.000	.1223	

MACH (4) = 1.250 BETA (8) = 9.000 0 = 8.2803 PTA = 22.005 RL = 6.9757 PSA = 8.5301

SECTION (1)SRM 5005 SHROU DEPENDENT VARIABLE CP

X/LS .9595

PHI	.000	.0381
22.500	.1139	
45.000	.1263	
67.500	.1293	
90.000	.1811	
112.500	.2164	
135.000	.2857	
157.500	.3478	
180.000	.4190	
202.500	.3842	
225.000	.3134	
247.500	.2532	
270.000	.0681	
292.500	.0494	
315.000	-.1264	
337.500	-.0527	
360.000	.0381	

TABLULATED SOURCE DATA, MSFC TMT 587 (1A32F)

DATE 24 SEP 75

MSFC 817(1A32F) 10 53/2 53/2 03 SRM SPROUD (R82552)

MACH (4) = 1.250 BETA (7) = 10.000 0 = 9.2803 PTA = 22.005 RL = 6.9757 PSA = 0.5301

SECTION (1) SRM 8008 SPROUD DEPENDENT VARIABLE CP

X/L/S .0000

PHI	.000	-.0097
22.500	.0802	
45.000	.1228	
67.500	.1327	
90.000	.1762	
112.500	.2103	
135.000	.2602	
157.500	.3420	
180.000	.3882	
202.500	.3724	
225.000	.2915	
247.500	.2398	
270.000	.0480	
292.500	.0210	
315.000	-.1703	
337.500	-.1037	
360.000	-.0697	

MACH (9) = 1.460 BETA (1) = -10.000 0 = 9.4718 PTA = 22.004 RL = 6.5271 PSA = 0.3637

SECTION (1) SRM 8008 SPROUD DEPENDENT VARIABLE CP

X/L/S .0000

PHI	.000	.6182
22.500	.5414	
45.000	.6071	
67.500	.4838	
90.000	.4136	
112.500	.3512	
135.000	.2719	
157.500	.1845	
180.000	.1052	
202.500	.0157	
225.000	.1251	
247.500	.1858	
270.000	.2351	
292.500	.1034	
315.000	.2148	
337.500	.4333	
360.000	.6122	

DATE 05 SEP 75
TABULATED SOURCE DATA. MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 SRM SPROUD (R82552)

MACH (5) = 1.480 BETA (2) = -8.000 0 • 9 4716 PTA • 22.004 RL • 5.5271 PSA • 6.3637

SECTION (1) SRM 8005 SPROUD DEPENDENT VARIABLE CP

X/LS .0255

PH)	.5018
.000	.5322
22.500	.4977
45.000	.4577
67.500	.3989
90.000	.3800
112.500	.3119
135.000	.2560
157.500	.1055
180.000	.0581
202.500	.1423
225.000	.1648
247.500	.2138
270.000	.0911
292.500	.1969
315.000	.4448
337.500	.5012
360.000	

MACH (5) = 1.480 BETA (3) = -4.000 0 • 9 4716 PTA • 22.004 RL • 5.5271 PSA • 6.3637

SECTION (1) SRM 8005 SPROUD DEPENDENT VARIABLE CP

X/LS .5555

PH)	.4208
.000	.4710
22.500	.4404
45.000	.3949
67.500	.3378
90.000	.3017
112.500	.2872
135.000	.2529
157.500	.2045
180.000	.1319
202.500	.1177
225.000	.1565
247.500	.1682
270.000	.0323
292.500	-.0117
315.000	.3864
337.500	.4208
360.000	

TABLATED SOURCE DATA, MSFC TMT 987 (1A35F)

DATE 08 SEP 78

(R2552)

MSFC 987(1A35F) TO 3/2 3/2 03 SPN SPROLD

MACH (5) = 1.480 BETA (4) = .000 Q = 9.4716 PTA = 22.004 PL = 8.5271 PSA = 8.3837

SECTION (1) SPN 8008 SPROLD DEPENDENT VARIABLE CP

X/L5	PH
.0000	
.0000	.3058
.22.500	.3638
.45.000	.3796
.67.500	.3838
.90.000	.3884
112.500	.3143
135.000	.3006
157.500	.2740
180.000	.2340
202.500	.1837
225.000	.1274
247.500	.1287
270.000	.1360
292.500	.0756
315.000	-.0934
337.500	.1828
360.000	.3058

SECTION (1) SPN 78 SPROLD DEPENDENT VARIABLE CP

X/L5	PH
.0000	
.2014	
.2741	
.2527	
.2488	
.2504	
.2629	
.2574	
.2772	
.3300	
.3049	
.2121	
.1588	
.1182	
.0949	
-.1437	
.0788	
.2014	

DATE 05 SEP 75 T/ABULATED SOURCE DATA, MSFC TMT 567 (1A32F)

(R2552)

MSFC 5671.432F) T9 53/2 53/2 03 SPM SHROUD

MACH (5) = 1.460 BETA (6) = 8.000 0 = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 6.3637

SECTION (1) SPM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS	.9595
PHI	.000
	.1084
22.500	.2077
45.000	.2227
67.500	.2166
90.000	.2313
112.500	.2799
135.000	.3093
157.500	.4187
180.000	.4465
202.500	.3950
225.000	.3041
247.500	.2258
270.000	.1203
292.500	.1113
315.000	-.1068
337.500	-.0831
360.000	.1124

MACH (5) = 1.460 BETA (7) = 10.000 0 = 9.4716 PTA = 22.004 RL = 6.5271 PSA = 6.3637

SECTION (1) SPM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS	.9595
PHI	.000
	.0797
22.500	.1423
45.000	.1561
67.500	.2087
90.000	.2318
112.500	.2822
135.000	.3295
157.500	.3973
180.000	.3937
202.500	.3690
225.000	.3002
247.500	.2390
270.000	.1036
292.500	.0871
315.000	-.1230
337.500	-.0944
360.000	.0797

TABULATED SOURCE DATA, HF5C TNT 567 (1A32F)

DATE 05 SEP 78

HF5C 567(1A32F) TB 53/2 53/2 03 SRM SHROUD (R82552)

MACH (6) = 1.060 BETA (1) = -8.000 Q = 10.263 PTA = 27.967 RL = 7.0640 PSA = 3.6384

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.000	.3239
.1930	.1930
.2706	.2706
.3638	.3638
.4103	.4103
.3932	.3932
.3265	.3265
.2602	.2602
.1518	.1518
.1071	.1071
.1728	.1728
.1810	.1810
.1837	.1837
-.0593	-.0593
-.0844	-.0844
.1769	.1769
.3239	.3239

MACH (6) = 1.060 BETA (2) = -4.000 Q = 10.263 PTA = 27.967 RL = 7.0640 PSA = 3.6384

SECTION (1) SRM 8006 SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.000	.3603
.1717	.1717
.2458	.2458
.3180	.3180
.3511	.3511
.3608	.3608
.3225	.3225
.2583	.2583
.1895	.1895
.1348	.1348
.1398	.1398
.1658	.1658
.2080	.2080
-.1048	-.1048
-.0210	-.0210
.1319	.1319
.3603	.3603

TABLULATED SOURCE DATA, MSFC TNT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROUD (R82552)

MACH (6) = 1.980 BETA (3) = .000 Q = 10.263 PTA = 27.987 RL = 7.0840 PSA = 3.8394

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L S .9995

PHI	.000	.3287
22.500	.3241	
45.000	.1901	
67.500	.2798	
90.000	.3221	
112.500	.3044	
135.000	.2417	
157.500	.2224	
180.000	.2145	
202.500	.1651	
225.000	.1000	
247.500	.1515	
270.000	.1575	
292.500	-.0424	
315.000	-.0485	
337.500	.2503	
360.000	.3287	

MACH (6) = 1.980 BETA (4) = 4.000 Q = 10.263 PTA = 27.987 RL = 7.0840 PSA = 3.8394

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L S .9995

PHI	.000	.2382
22.500	.2894	
45.000	.2383	
67.500	.2095	
90.000	.2488	
112.500	.2493	
135.000	.2248	
157.500	.2486	
180.000	.2328	
202.500	.2158	
225.000	.1825	
247.500	.1372	
270.000	.1430	
292.500	.0586	
315.000	-.0695	
337.500	.1426	
360.000	.2382	

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TABULATED SOURCE DATA, MSFC TMT 907 (1132F)

DATE 05 SEP 70

(REVERSE)

MSFC 907(1132F) TO 53/2 53/2 03 5PM SHROUD

MACH (8) = 1.980 BETA (8) = 0.000 Q = 10.203 PTA = 27.007 RL = 7.0610 PSA = 3.8384

SECTION (1) 5PM 8008 SHROUD DEPENDENT VARIABLE CP

X/L8 .0000

PHI	.000
	.1808
	.2129
	.1808
	.1752
	.1820
	.2353
	.2624
	.3220
	.2684
	.2066
	.2148
	.1475
	.1056
	.0054
	-.0922
	.1120
	.1808

MACH (7) = 2.880 BETA (7) = -0.000 Q = 9.1008 PTA = 30.020 RL = 4.1200 PSA = .02860

SECTION (1) 5PM 8008 SHROUD DEPENDENT VARIABLE CP

X/L8 .0000

PHI	.000
	.3381
	.3858
	.4818
	.4908
	.4378
	.3538
	.3035
	.2572
	.1383
	.0873
	.1204
	.1314
	.1885
	.0986
	-.0056
	.2817
	.3381

MACH (7) = 2.980 BETA (2) = -4.000 0 PTA = 5.1898 PTA = 30.020 RL = 4.1200 PSA = .82960
(RBESS2)

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	.000
	.2472
22.500	.2826
45.000	.3572
67.500	.3870
90.000	.3385
112.500	.2733
135.000	.2379
157.500	.2010
180.000	.1402
202.500	.0988
225.000	.1130
247.500	.1120
270.000	.1074
292.500	.0727
315.000	-.0402
337.500	.1570
360.000	.2472

MACH (7) = 2.980 BETA (3) = .000 0 PTA = 5.1898 PTA = 30.020 RL = 4.1200 PSA = .82960

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	.000
	.1075
22.500	.1265
45.000	.1924
67.500	.2636
90.000	.2524
112.500	.1905
135.000	.1664
157.500	.1601
180.000	.1534
202.500	.1321
225.000	.0675
247.500	.0841
270.000	.0669
292.500	-.0420
315.000	.0023
337.500	.0573
360.000	.1075

MSFC 977:1A32F) TO 93/2 93/2 03 SRM SHROUD (R62522)

MACH (7) = 2.800 BETA (4) = 4.000 Q = 5.1808 PTA = 30.020 RL = 4.1200 PSA = .62360

SECTION (1) SRM 8008 SHROUD DEPENDENT VARIABLE C²

X/L/S .8008

PHI	.000	.0041
22.500	.0664	
45.000	.1040	
67.500	.1231	
90.000	.1383	
112.500	.1318	
135.000	.1365	
157.500	.1704	
180.000	.1294	
202.500	.1200	
225.000	.1067	
247.500	.0533	
270.000	.0671	
292.500	.0500	
315.000	-.0107	
337.500	.0481	
360.000	.0241	

MACH (7) = 2.800 BETA (5) = 6.000 Q = 5.1808 PTA = 30.020 RL = 4.1200 PSA = .62360

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L/S .8005

PHI	.000	.0738
22.500	.0951	
45.000	.0705	
67.500	.0724	
90.000	.0665	
112.500	.1242	
135.000	.1788	
157.500	.1468	
180.000	.1161	
202.500	.1201	
225.000	.0830	
247.500	.0437	
270.000	.0513	
292.500	.0059	
315.000	-.0389	
337.500	.0439	
360.000	.0738	

TABULATED SOURCE DATA, NSFC THT 567 (1A32F)

DATE 05 SEP 75

NSFC 567(1A32F) T9 S3/2 S3/2 03 SRM SHROUD (R82552)

MACH (8) = 3.500 BETA (1) = -8.000 0 = 8.7182 PTA = 50.033 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS	.9525
PHI	.000
	.4172
	22.500
	45.000
	67.500
	90.000
	112.500
	135.000
	157.500
	180.000
	202.500
	225.000
	247.500
	270.000
	292.500
	315.000
	337.500
	360.000

MACH (8) = 3.500 BETA (2) = -4.000 0 = 5.7182 PTA = 50.033 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS	.9553
PHI	.000
	.2799
	22.500
	45.000
	67.500
	90.000
	112.500
	135.000
	157.500
	180.000
	202.500
	225.000
	247.500
	270.000
	292.500
	315.000
	337.500
	360.000

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TABULATED SOURCE DATA, MSFC THT 987 (11A3EF)

DATE 05 SEP 76

MSFC 987(11A3EF) TO 93/2 93/2 03 SRM SHROLD (R82552)

MACH (8) = 3.500 BETA (3) = .000 Q = 5.7192 PTA = 50.033 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8006 SHROLD DEPENDENT VARIABLE CP

X/L5	9865
PHI	.000
	.1130
	.2275
	.3420
	.4565
	.5710
	.6855
	.8000
	.9145
	1.0290
	1.1435
	1.2580
	1.3725
	1.4870
	1.6015
	1.7160
	1.8305
	1.9450
	2.0595
	2.1740
	2.2885
	2.4030
	2.5175
	2.6320
	2.7465
	2.8610
	2.9755
	3.0900
	3.2045
	3.3190
	3.4335
	3.5480
	3.6625
	3.7770
	3.8915
	4.0060
	4.1205
	4.2350
	4.3495
	4.4640
	4.5785
	4.6930
	4.8075
	4.9220
	5.0365
	5.1510
	5.2655
	5.3800
	5.4945
	5.6090
	5.7235
	5.8380
	5.9525
	6.0670
	6.1815
	6.2960
	6.4105
	6.5250
	6.6395
	6.7540
	6.8685
	6.9830
	7.0975
	7.2120
	7.3265
	7.4410
	7.5555
	7.6700
	7.7845
	7.8990
	8.0135
	8.1280
	8.2425
	8.3570
	8.4715
	8.5860
	8.7005
	8.8150
	8.9295
	9.0440
	9.1585
	9.2730
	9.3875
	9.5020
	9.6165
	9.7310
	9.8455
	9.9600
	10.0745
	10.1890
	10.3035
	10.4180
	10.5325
	10.6470
	10.7615
	10.8760
	10.9905
	11.1050
	11.2195
	11.3340
	11.4485
	11.5630
	11.6775
	11.7920
	11.9065
	12.0210
	12.1355
	12.2500
	12.3645
	12.4790
	12.5935
	12.7080
	12.8225
	12.9370
	13.0515
	13.1660
	13.2805
	13.3950
	13.5095
	13.6240
	13.7385
	13.8530
	13.9675
	14.0820
	14.1965
	14.3110
	14.4255
	14.5400
	14.6545
	14.7690
	14.8835
	15.0080
	15.1225
	15.2370
	15.3515
	15.4660
	15.5805
	15.6950
	15.8095
	15.9240
	16.0385
	16.1530
	16.2675
	16.3820
	16.4965
	16.6110
	16.7255
	16.8400
	16.9545
	17.0690
	17.1835
	17.2980
	17.4125
	17.5270
	17.6415
	17.7560
	17.8705
	17.9850
	18.1000
	18.2145
	18.3290
	18.4435
	18.5580
	18.6725
	18.7870
	18.9015
	19.0160
	19.1305
	19.2450
	19.3595
	19.4740
	19.5885
	19.7030
	19.8175
	19.9320
	20.0465
	20.1610
	20.2755
	20.3900
	20.5045
	20.6190
	20.7335
	20.8480
	20.9625
	21.0770
	21.1915
	21.3060
	21.4205
	21.5350
	21.6495
	21.7640
	21.8785
	21.9930
	22.1075
	22.2220
	22.3365
	22.4510
	22.5655
	22.6800
	22.7945
	22.9090
	23.0235
	23.1380
	23.2525
	23.3670
	23.4815
	23.5960
	23.7105
	23.8250
	23.9395
	24.0540
	24.1685
	24.2830
	24.3975
	24.5120
	24.6265
	24.7410
	24.8555
	24.9700
	25.0845
	25.1990
	25.3135
	25.4280
	25.5425
	25.6570
	25.7715
	25.8860
	26.0005
	26.1150
	26.2295
	26.3440
	26.4585
	26.5730
	26.6875
	26.8020
	26.9165
	27.0310
	27.1455
	27.2600
	27.3745
	27.4890
	27.6035
	27.7180
	27.8325
	27.9470
	28.0615
	28.1760
	28.2905
	28.4050
	28.5195
	28.6340
	28.7485
	28.8630
	28.9775
	29.0920
	29.2065
	29.3210
	29.4355
	29.5500
	29.6645
	29.7790
	29.8935
	30.0080
	30.1225
	30.2370
	30.3515
	30.4660
	30.5805
	30.6950
	30.8095
	30.9240
	31.0385
	31.1530
	31.2675
	31.3820
	31.4965
	31.6110
	31.7255
	31.8400
	31.9545
	32.0690
	32.1835
	32.2980
	32.4125
	32.5270
	32.6415
	32.7560
	32.8705
	32.9850
	33.1000
	33.2145
	33.3290
	33.4435
	33.5580
	33.6725
	33.7870
	33.9015
	34.0160
	34.1305
	34.2450
	34.3595
	34.4740
	34.5885
	34.7030
	34.8175
	34.9320
	35.0465
	35.1610
	35.2755
	35.3900
	35.5045
	35.6190
	35.7335
	35.8480
	35.9625
	36.0770
	36.1915
	36.3060
	36.4205
	36.5350
	36.6495
	36.7640
	36.8785
	36.9930
	37.1075
	37.2220
	37.3365
	37.4510
	37.5655
	37.6800
	37.7945
	37.9090
	38.0235
	38.1380
	38.2525
	38.3670
	38.4815
	38.5960
	38.7105
	38.8250
	38.9395
	39.0540
	39.1685
	39.2830
	39.3975
	39.5120
	39.6265
	39.7410
	39.8555
	39.9700
	40.0845
	40.1990
	40.3135
	40.4280
	40.5425
	40.6570
	40.7715
	40.8860
	41.0005
	41.1150
	41.2295
	41.3440
	41.4585
	41.5730
	41.6875
	41.8020
	41.9165
	42.0310
	42.1455
	42.2600
	42.3745
	42.4890
	42.6035
	42.7180
	42.8325
	42.9470
	43.0615
	43.1760
	43.2905
	43.4050
	43.5195
	43.6340
	43.7485
	43.8630
	43.9775
	44.0920
	44.2065
	44.3210
	44.4355
	44.5500
	44.6645
	44.7790
	44.8935
	45.0080
	45.1225
	45.2370
	45.3515
	45.4660
	45.5805
	45.6950
	45.8095
	45.9240
	46.0385
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	46.2675
	46.3820
	46.4965
	46.6110
	46.7255
	46.8400
	46.9545
	47.0690
	47.1835
	47.2980
	47.4125
	47.5270
	47.6415
	47.7560
	47.8705
	47.9850
	48.1000
	48.2145
	48.3290
	48.4435
	48.5580
	48.6725
	48.7870
	48.9015
	49.0160
	49.1305
	49.2450
	49.3595
	49.4740
	49.5885
	49.7030
	49.8175
	49.9320
	50.0465
	50.1610
	50.2755
	50.3900
	50.5045
	50.6190
	50.7335
	50.8480
	50.9625
	51.0770
	51.1915
	51.3060
	51.4205
	51.5350
	51.6495
	51.7640
	51.8785
	51.9930
	52.1075
	52.2220
	52.3365
	52.4510
	52.5655
	52.6800
	52.7945
	52.9090
	53.0235
	53.1380
	53.2525
	53.3670
	53.4815
	53.5960
	53.7105
	53.8250
	53.9395
	54.0540
	54.1685
	54.2830
	54.3975
	54.5120
	54.6265
	54.7410
	54.8555
	54.9700
	55.0845
	55.1990
	55.3135
	55.4280
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	55.7715
	55.8860
	56.0005
	56.1150
	56.2295
	56.3440
	56.4585
	56.5730
	56.6875
	56.8020
	56.9165
	57.0310
	57.1455
	57.2600
	57.3745
	57.4890
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	57.7180
	57.8325
	57.9470
	58.0615
	58.1760
	58.2905
	58.4050
	58.5195
	58.6340
	58.7485
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	58.9775
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	59.2065
	59.3210
	59.4355
	59.5500
	59.6645
	59.7790
	59.8935
	60.0080
	60.1225
	60.2370
	60.3515
	60.4660
	60.5805
	60.6950
	60.8095
	60.9240
	61.0385
	61.1530
	61.2675
	61.3820
	61.4965
	61.6110
	61.7255
	61.8400
	61.9545
	62.0690
	62.1835
	62.2980
	62.4125
	62.5270
	62.6415
	62.7560
	62.8705
	62.9850
	63.1000
	63.2145
	63.3290
	63.4435
	63.5580
	63.6725
	63.7870
	63.9015
	64.0160
	64.1305
	64.2450
	64.3595
	64.4740
	64.5885
	64.7030
	64.8175
	64.9320
	65.0465
	65.1610
	65.2755
	65.3900
	65.5045
	65.6190

TABLATED SOURCE DATA, MSFC TMT 587 (1A38F)

(INCESS2)

MSFC 587(1A38F) TO 53/2 53/2 03 5PM 59000

PSA • .67500

RL • 5.3300

PTA • 50.033

5.7182

BETA (B) • 0.000 0

DATE 08 SEP 78

MACH (M) • 3.000

DEPENDENT VARIABLE CP

SECTION (I) 115M 8003 59000

X/LB	.0000
PHI	.0000
22.500	.0010
45.000	.0300
67.500	.0510
90.000	.0707
112.500	.1220
135.000	.1661
157.500	.1270
180.000	.1080
202.500	.1370
225.000	.0850
247.500	.0341
270.000	.0453
292.500	.0135
315.000	-.0023
337.500	.0500
360.000	.0952

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OF FOUR QUALITY

TABLATED SOURCE DATA, MSFC TMT 867 (11A32F)

(R02533) (24 APR 74)

MSFC 867(11A32F) TO S3/2 S3/2 03 SRM SRR0LD

REFERENCE DATA

SREF = 6.1000 IN. XPPP = 2.0480 IN.
 LREF = 6.3130 IN. YPPP = .9720 IN.
 BREF = 5.3130 IN. ZPPP = .0000 IN.
 SCALE = .0040 SCALE

PARAMETRIC DATA

ALPHA = 5.000 CONF10 = 90.000
 DELTAZ = .140 RUDDER = .000
 X-SEG = .000 CRBINC = .500

MACH (1) = .800 BETA (1) = -4.000 Q = 4.3330 PTA = 22.007 RL = 4.0867 PSA = 17.270

SECTION (1) SRM 8006 SRR0LD DEPENDENT VARIABLE C²

X/L5 .0000

PH1	.000
	.0430
	.0967
	.1500
	.2033
	.2567
	.3100
	.3633
	.4167
	.4700
	.5233
	.5767
	.6300
	.6833
	.7367
	.7900
	.8433
	.8967
	.9500
	1.0033
	1.0567
	1.1100
	1.1633
	1.2167
	1.2700
	1.3233
	1.3767
	1.4300
	1.4833
	1.5367
	1.5900
	1.6433
	1.6967
	1.7500
	1.8033
	1.8567
	1.9100
	1.9633
	2.0167
	2.0700
	2.1233
	2.1767
	2.2300
	2.2833
	2.3367
	2.3900
	2.4433
	2.4967
	2.5500
	2.6033
	2.6567
	2.7100
	2.7633
	2.8167
	2.8700
	2.9233
	2.9767
	3.0300
	3.0833
	3.1367
	3.1900
	3.2433
	3.2967
	3.3500
	3.4033
	3.4567
	3.5100
	3.5633
	3.6167
	3.6700
	3.7233
	3.7767
	3.8300
	3.8833
	3.9367
	3.9900
	4.0433
	4.0967
	4.1500
	4.2033
	4.2567
	4.3100
	4.3633
	4.4167
	4.4700
	4.5233
	4.5767
	4.6300
	4.6833
	4.7367
	4.7900
	4.8433
	4.8967
	4.9500
	5.0033
	5.0567
	5.1100
	5.1633
	5.2167
	5.2700
	5.3233
	5.3767
	5.4300
	5.4833
	5.5367
	5.5900
	5.6433
	5.6967
	5.7500
	5.8033
	5.8567
	5.9100
	5.9633
	6.0167
	6.0700
	6.1233
	6.1767
	6.2300
	6.2833
	6.3367
	6.3900
	6.4433
	6.4967
	6.5500
	6.6033
	6.6567
	6.7100
	6.7633
	6.8167
	6.8700
	6.9233
	6.9767
	7.0300
	7.0833
	7.1367
	7.1900
	7.2433
	7.2967
	7.3500
	7.4033
	7.4567
	7.5100
	7.5633
	7.6167
	7.6700
	7.7233
	7.7767
	7.8300
	7.8833
	7.9367
	7.9900
	8.0433
	8.0967
	8.1500
	8.2033
	8.2567
	8.3100
	8.3633
	8.4167
	8.4700
	8.5233
	8.5767
	8.6300
	8.6833
	8.7367
	8.7900
	8.8433
	8.8967
	8.9500
	9.0033
	9.0567
	9.1100
	9.1633
	9.2167
	9.2700
	9.3233
	9.3767
	9.4300
	9.4833
	9.5367
	9.5900
	9.6433
	9.6967
	9.7500
	9.8033
	9.8567
	9.9100
	9.9633
	10.0167
	10.0700
	10.1233
	10.1767
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	10.4433
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	10.6567
	10.7100
	10.7633
	10.8167
	10.8700
	10.9233
	10.9767
	11.0300
	11.0833
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	11.6167
	11.6700
	11.7233
	11.7767
	11.8300
	11.8833
	11.9367
	11.9900
	12.0433
	12.0967
	12.1500
	12.2033
	12.2567
	12.3100
	12.3633
	12.4167
	12.4700
	12.5233
	12.5767
	12.6300
	12.6833
	12.7367
	12.7900
	12.8433
	12.8967
	12.9500
	13.0033
	13.0567
	13.1100
	13.1633
	13.2167
	13.2700
	13.3233
	13.3767
	13.4300
	13.4833
	13.5367
	13.5900
	13.6433
	13.6967
	13.7500
	13.8033
	13.8567
	13.9100
	13.9633
	14.0167
	14.0700
	14.1233
	14.1767
	14.2300
	14.2833
	14.3367
	14.3900
	14.4433
	14.4967
	14.5500
	14.6033
	14.6567
	14.7100
	14.7633
	14.8167
	14.8700
	14.9233
	14.9767
	15.0300
	15.0833
	15.1367
	15.1900
	15.2433
	15.2967
	15.3500
	15.4033
	15.4567
	15.5100
	15.5633
	15.6167
	15.6700
	15.7233
	15.7767
	15.8300
	15.8833
	15.9367
	15.9900
	16.0433
	16.0967
	16.1500
	16.2033
	16.2567
	16.3100
	16.3633
	16.4167
	16.4700
	16.5233
	16.5767
	16.6300
	16.6833
	16.7367
	16.7900
	16.8433
	16.8967
	16.9500
	17.0033
	17.0567
	17.1100
	17.1633
	17.2167
	17.2700

MACH (1) = .800 BETA (8) = .000 Q = 4.3330 PTA = 22.007 RL = 4.0867 PSA = 17.270

SECTION (1) SRM 8006 SRR0LD DEPENDENT VARIABLE CP

X/L5 .0000

PH1	.000
	.0243
	.0487
	.0730
	.0973
	.1217
	.1460
	.1703
	.1947
	.2190
	.2433
	.2677
	.2920
	.3163
	.3407
	.3650
	.3893
	.4137
	.4380
	.4623
	.4867
	.5110
	.5353
	.5597
	.5840
	.6083
	.6327
	.6570
	.6813
	.7057
	.7300
	.7543
	.7787
	.8030
	.8273
	.8517
	.8760
	.9003
	.9247
	.9490
	.9733
	.9977
	1.0220
	1.0463
	1.0707
	1.0950
	1.1193
	1.1437
	1.1680
	1.1923
	1.2167
	1.2410
	1.2653
	1.2897
	1.3140
	1.3383
	1.3627
	1.3870
	1.4113
	1.4357
	1.4600
	1.4843
	1.5087
	1.5330
	1.5573
	1.5817
	1.6060
	1.6303
	1.6547
	1.6790
	1.7033
	1.7277
	1.7520
	1.7763
	1.8007
	1.8250
	1.8493
	1.8737
	1.8980
	1.9223
	1.9467
	1.9710
	1.9953
	2.0197
	2.0440
	2.0683
	2.0927
	2.1170
	2.1413
	2.1657
	2.1900
	2.2143
	2.2387
	2.2630
	2.2873
	2.3117
	2.3360
	2.3603
	2.3847
	2.4090
	2.4333
	2.4577
	2.4820
	2.5063
	2.5307
	2.5550
	2.5793
	2.6037
	2.6280
	2.6523
	2.6767
	2.7010
	2.7253
	2.7497
	2.7740
	2.7983
	2.8227
	2.8470
	2.8713
	2.8957
	2.9200
	2.9443
	2.9687
	2.9930
	3.0173
	3.0417
	3.0660
	3.0903
	3.1147
	3.1390
	3.1633
	3.1877
	3.2120
	3.2363
	3.2607
	3.2850
	3.3093
	3.3337
	3.3580
	3.3823
	3.4067
	3.4310
	3.4553
	3.4797
	3.5040
	3.5283
	3.5527
	3.5770
	3.6013
	3.6257
	3.6500
	3.6743
	3.6987
	3.7230
	3.7473
	3.7717
	3.7960
	3.8203
	3.8447
	3.8690
	3.8933
	3.9177
	3.9420
	3.9663
	3.9907
	4.0150
	4.0393
	4.0637
	4.0880
	4.1123
	4.1367
	4.1610
	4.1853
	4.2097
	4.2340
	4.2583
	4.2827
	4.3070
	4.3313
	4.3557
	4.3800
	4.4043
	4.4287
	4.4530
	4.4773
	4.5017
	4.5260
	4.5503
	4.5747
	4.5990
	4.6233
	4.6477
	4.6720
	4.6963
	4.7207
	4.7450
	4.7693
	4.7937
	4.8180
	4.8423
	4.8667
	4.8910
	4.9153
	4.9397
	4.9640
	4.9883
	5.0127
	5.0370
	5.0613
	5.0857
	5.1100
	5.1343
	5.1587
	5.1830
	5.2073
	5.2317
	5.2560
	5.2803
	5.3047
	5.3290
	5.3533
	5.3777
	5.4020
	5.4263
	5.4507
	5.4750
	5.4993
	5.5237
	5.5480
	5.5723
	5.5967
	5.6210
	5.6453
	5.6697
	5.6940
	5.7183
	5.7427
	5.7670
	5.7913
	5.8157
	5.8400
	5.8643
	5.8887</

MSFC 567(1A32F) 19 53/2 53/2 03 SRM S-MROUD (RB2553)

MACH (1) = .600 BETA (2) = .000

SECTION (1) SRM 0005 S-MROUD DEPENDENT VARIABLE CP

X/L5 .9255

PHI
292.500 .0755
315.000 -.0106
337.500 .0044
360.000 .0543

MACH (1) = .600 BETA (3) = 4.000 Q = 4.3330 PTA = 22.007 RL = 4.9687 PSA = 17.270

SECTION (1) SRM 0003 S-MROUD DEPENDENT VARIABLE CP

X/L5 .6888

PHI
.000 .0142
22.500 .0690
45.000 .0393
67.500 .0079
90.000 .0215
112.500 .0519
135.000 .0997
157.500 .1734
180.000 .2619
202.500 .3372
225.000 .3404
247.500 .2269
270.000 .0261
292.500 .0158
315.000 -.0569
337.500 -.0307
360.000 .0142

MACH (2) = .900 BETA (1) = -4.000 Q = 7.3630 PTA = 22.008 RL = 6.2700 PSA = 13.033

SECTION (1) SRM 0005 S-MROUD DEPENDENT VARIABLE CP

X/L5 .9255

PHI
.000 .0702
22.500 .0586
45.000 .1037
67.500 .1716
90.000 .2317
112.500 .2812
135.000 .3102
157.500 .3059

TABLATED SOURCE DATA, NSFC TMT 987 (1A32F)

DATE 05 SEP 78

NSFC 987(1A32F) TO 93/E 53/E 03 99H 9990LD (NRC553)

MACH (2) = .900 BETA (1) = -4.000

SECTION 1 119H 900S 9990LD DEPENDENT VARIABLE CP

X/L5 .9005

PHI	PHI
180.900	.2718
202.500	.2254
225.000	.1851
247.500	.1502
270.000	.1274
292.500	.0973
315.000	-.0073
337.500	-.0428
360.000	.0702

MACH (2) = .900 BETA (2) = .000 G = 7.3030 PTA = 22.000 PL = 6.2700 PSA = 13.833

SECTION 1 119H 900S 9990LD DEPENDENT VARIABLE CP

X/L5 .9005

PHI	PHI
.000	.0027
22.500	.0039
45.000	.0054
67.500	.0077
90.000	.1260
112.500	.1988
135.000	.2596
157.500	.3027
180.000	.3179
202.500	.3158
225.000	.2874
247.500	.2150
270.000	.0853
292.500	.0770
315.000	-.0182
337.500	.0234
360.000	.0527

TABULATED SOURCE DATA, MSFC INT 567 (1A32F)

MSFC 567(1A32F) TO 63/2 53/2 03 SRM SPROUD (R62553)

MACH (2) • .800 BETA (3) • 4.000 Q • 7.3630 PTA • 22.008 PL • 8.2700 PSA • 13.033

SECTION (1) SRM 8008 SPROUD DEPENDENT VARIABLE CP

X/L5	.9556
PHI	.0038
22.500	.0459
45.000	.0624
67.500	.0739
90.000	.0813
112.500	.1128
135.000	.1602
157.500	.2621
180.000	.3850
202.500	.4383
225.000	.5527
247.500	.2064
270.000	.0091
292.500	.0070
315.000	-.0685
337.500	-.0362
360.000	.0038

MACH (3) • 1.050 BETA (1) • 4.000 Q • 8.4300 PTA • 22.007 PL • 8.5700 PSA • 11.000

SECTION (1) SRM 8008 SPROUD DEPENDENT VARIABLE CP

X/L5	.9255
PHI	.1909
22.500	.2231
45.000	.2196
67.500	.2827
90.000	.3459
112.500	.4079
135.000	.4516
157.500	.4517
180.000	.3997
202.500	.3314
225.000	.2747
247.500	.2586
270.000	.2132
292.500	.1807
315.000	.0421
337.500	.1132
360.000	.1909

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TABULATED SOURCE DATA, MFSC TMT (1:AZBP)

DATE 08 SEP 78

(R02533)

MFSC 087(1:AZBP) TO 03/2 03 8PM SPROLO

MACH (3) = 1.000 BETA (8) = .000 0 = 0.4300 PTA = 88.007 PL = 0.5700 PSA = 11.000

DEPENDENT VARIABLE CP

SECTION (1) 8PM 0008 SPROLO

X/L/S .0000

PH)	.000	.1500
	28.500	.2148
	45.000	.2111
	67.500	.1803
	90.000	.2308
	112.500	.3048
	135.000	.3825
	157.500	.4261
	180.000	.4298
	202.500	.4134
	225.000	.3518
	247.500	.2811
	270.000	.1452
	292.500	.1206
	315.000	.0253
	337.500	.0787
	360.000	.1500

MACH (3) = 1.000 BETA (3) = 4.600 0 = 0.4300 PTA = 22.007 PL = 0.5700 PSA = 11.000

DEPENDENT VARIABLE CP

SECTION (1) 8PM 0008 SPROLO

X/L/S .0000

PH)	.000	.0578
	22.500	.1291
	45.000	.1557
	67.500	.1312
	90.000	.1445
	112.500	.2000
	135.000	.2681
	157.500	.3823
	180.000	.4806
	202.500	.4884
	225.000	.3992
	247.500	.2784
	270.000	.0891
	292.500	.0805
	315.000	-.0135
	337.500	.0135
	360.000	.0578

DATE 05 SEP 75
 TABULATED SOURCE DATA, NSFC TMT 567 (1A32F)
 MSFC 567(1A32F) T9 53/2 53/2 03 SRM SHROUD (R02553)
 MACH (4) = 1.250 BETA (1) = -4.000 Q = 9.2843 PTA = 22.007 RL = 6.6857 PSA = 8.5180

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000
	.2849
	.3435
	.3107
	.2801
	.2750
	.3065
	.3688
	.3743
	.3252
	.2577
	.2003
	.2039
	.1986
	.1570
	-.1180
	.1594
	.2849

MACH (4) = 1.250 BETA (2) = .000 Q = 9.2843 PTA = 22.007 RL = 6.6857 PSA = 8.5180

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000
	.1779
	.2714
	.2700
	.1858
	.2117
	.2638
	.3323
	.3685
	.3777
	.3564
	.2812
	.2125
	.1682
	.1435
	.0211
	.0745
	.1779

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TABULATED SOURCE DATA, MSFC TMT 867 (1A32F)

MSFC 867(1A32F) T9 S3/2 S3/2 03 SRM S#R0LD (R82553)

MACH (4) = 1.250 BETA (3) = 4.000 0 = 9.2843 PTA = 22.007 RL = 6.6867 PSA = 6.5180

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 S#R0LD

X/L5	.9553
PHI	.000
	.0878
	.1535
	.1798
	.1711
	.1702
	.2244
	.2881
	.3784
	.4540
	.4541
	.3509
	.2450
	.1245
	.1056
	-.0271
	.0245
	.0578

MACH (5) = 1.480 BETA (1) = -4.000 0 = 9.4730 PTA = 22.010 RL = 6.5300 PSA = 6.3457

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 S#R0LD

X/L5	.3653
PHI	.000
	.3846
	.4220
	.3806
	.2287
	.3285
	.3338
	.3470
	.3873
	.3480
	.2584
	.2053
	.2346
	.2458
	.2339
	.0481
	.3703
	.3846

TABLATED SOURCE DATA, MSFC THT 567 (1A32F)

DATE 05 SEP 75

(R02553)

MSFC 567(1A32F) T9 S3/2 S3/2 03 SRM S#R0UD

PSA = 6.3457

RL = 22.010

PTA = 9.4730

BETA (2) = 1.460

Q = .000

MACH (5) = 1.460

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S S#R0UD

X/LS .9555

PHI	.000
	.3001
	22.500
	.3697
	45.000
	.3613
	67.500
	.2575
	90.000
	.2258
	112.500
	.2609
	135.000
	.3399
	157.500
	.3767
	180.000
	.3493
	202.500
	.3273
	225.000
	.2345
	247.500
	.2039
	270.000
	.2151
	292.500
	.1757
	315.000
	.0440
	337.500
	.2343
	360.000
	.3691

PSA = 6.5300

RL = 22.010

PTA = 9.4730

BETA (3) = 4.000

Q = .000

MACH (5) = 1.460

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S S#R0UD

X/LS .9555

PHI	.000
	.1934
	22.500
	.2435
	45.000
	.2713
	67.500
	.2423
	90.000
	.2050
	112.500
	.2277
	135.000
	.3485
	157.500
	.3828
	180.000
	.4281
	202.500
	.3985
	225.000
	.2850
	247.500
	.2432
	270.000
	0.9990
	.1718
	292.500
	-.0640
	315.000
	.8503
	337.500
	.1934
	360.000

MSFC 567(1A32F) 19 S3/2 S3/2 03 SRM SHROUD (R2553)

MACH (6) = 1.060 BETA (1) = -4.000 Q = 10.259 PTA = 28.006 PL = 7.0600 PSA = 3.8317

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.6555	.000
.6555	.1715
.6555	.1961
.6555	.22.900
.6555	.3162
.6555	.3799
.6555	.3911
.6555	.4145
.6555	.4625
.6555	.3653
.6555	.3201
.6555	.2528
.6555	.2153
.6555	.2462
.6555	.2448
.6555	.1709
.6555	-.0181
.6555	.1470
.6555	.1715

MACH (6) = 1.060 BETA (2) = .000 Q = 10.259 PTA = 28.006 PL = 7.0600 PSA = 3.8317

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.6555	.000
.6555	.1873
.6555	.1758
.6555	.2662
.6555	.2781
.6555	.2534
.6555	.3148
.6555	.3643
.6555	.3097
.6555	.3120
.6555	.2862
.6555	.1963
.6555	.2057
.6555	.2230
.6555	.0936
.6555	.0578
.6555	.1115
.6555	.1873

TABLULATED SOURCE DATA, MSFC TWT 567 (1A32F)

(R82553)

DATE 05 SEP 75

MSFC 567(1A32F) T8 53/2 53/2 03 SRH SHROUD

MACH (8) = 1.880 BETA (3) = 4.000 Q = 10.259 PTA = 28.008 RL = 7.0800 PSA = 3.8317

SECTION (1) SRH BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.9555	.000
	.2326
	.2429
	.2272
	.2288
	.1820
	.2430
	.3137
	.3140
	.3457
	.3062
	.225.000
	.2202
	.1948
	.1894
	.1266
	.0692
	.2297
	.2326

MACH (7) = 2.980 BETA (1) = -4.000 Q = 5.1887 PTA = 30.014 RL = 4.1200 PSA = .82967

SECTION (1) SRH BOOS SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.9555	.000
	.3188
	.2718
	.3381
	.3337
	.2565
	.3348
	.3108
	.0208
	.2469
	.2491
	.1597
	.1675
	.1592
	.0517
	.0418
	.2439
	.3188

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MACH (7) = 2.000 BETA (2) = .000 Q = 5.1887 PTA = 30.014 RL = 4.1200 PSA = .82867
 MFPC 687(1A38F) TB 83/2 83/2 03 88H SHROUD (R82553)

SECTION (1) 88H 8008 SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.6285	.000
.6285	.1635
.6285	.5401
.6285	.3180
.6285	.2304
.6285	.2304
.6285	.2349
.6285	.2304
.6285	.2424
.6285	.2435
.6285	.2457
.6285	.1633
.6285	.1394
.6285	.1391
.6285	.0720
.6285	.0034
.6285	.1320
.6285	.1635

MACH (7) = 2.000 BETA (3) = 4.000 Q = 5.1887 PTA = 30.014 RL = 4.1200 PSA = .82867

SECTION (1) 88H 8008 SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.6555	.000
.6555	.1227
.6555	.1137
.6555	.1601
.6555	.1040
.6555	.1425
.6555	.1470
.6555	.1629
.6555	.2115
.6555	-.0075
.6555	.2233
.6555	.0796
.6555	.0709
.6555	9.6560
.6555	.0242
.6555	.0444
.6555	1.3114
.6555	.1227

TABULATED SOURCE DATA, MSFC THT 967 (1A32F)

DATE 02 SEP 75

MSFC 567(1A32F) T9 53/2 53/2 03 SRM SHROUD (R82553)

MACH (8) = 3.480 BETA (1) = -.000 Q = 5.6920 PTA = 49.739 RL = 5.3033 PSA = .67267

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.3515
22.500	.4495	
45.000	.5742	
67.500	.3282	
90.000	.3173	
112.500	.3099	
135.000	.3214	
157.500	.3082	
180.000	.2395	
202.500	.2390	
225.000	.1530	
247.500	.1531	
270.000	.1540	
292.500	.0428	
315.000	.0459	
337.500	.2388	
360.000	.515	

MACH (8) = 3.480 BETA (2) = .000 Q = 5.6920 PTA = 49.739 RL = 5.3033 PSA = .67267

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.1790
22.500	.2121	
45.000	.2554	
67.500	.1972	
90.000	.1698	
112.500	.1654	
135.000	.2243	
157.500	.2314	
180.000	.2344	
202.500	.2135	
225.000	.1282	
247.500	.1120	
270.000	.1116	
292.500	.0223	
315.000	.0318	
337.500	.1519	
360.000	.1790	

MSFC 007(1A32F) TO S3/2 S3/2 03 5PM SRRULD (R025S3)

MACH (8) = 3.480 BETA (3) = 4.000 Q = 5.6920 PTA = 49.739 RL = 9.3033 PSA = .87287

SECTION (1) 5PM 000 SRRULD DEPENDENT VARIABLE CP

X/LS	.0000
PMI	
.000	.1243
22.500	.1014
45.000	.1409
67.500	.1643
90.000	.1388
112.500	.1389
135.000	.1653
157.500	.1604
180.000	.1499
202.500	.1558
225.000	.1076
247.500	.0656
270.000	.0643
292.500	.0288
315.000	-.0816
337.500	.0619
360.000	.1243

TABLATED SOURCE DATA, NSFC TMT 967 (1A32F)

(RECESS) (24 APR 74)

NSFC 967(1A32F) TO 63/2 63/2 03 SRM SHROUD

DATE 05 SEP 76

PARAMETRIC DATA

REFERENCE DATA

SREF = 6.1000 90. IN. XAPP = 2.8490 IN. ALPHA = -5.000 CONF 10 = 90.000
 LREF = 6.3130 IN. YAPP = .8720 IN. DELTA Z = .140 RUDDER = .000
 BREF = 5.3130 IN. ZAPP = .0000 IN. X-SRB = .000 ORBINC = .500
 SCALE = .0040 SCALE

MACH (1) = .600 BETA (1) = -4.000 0 = 4.3003 PTA = 22.012 RL = 4.9733 PSA = 17.308

SECTION (1) SRM 80% SHROUD DEPENDENT VARIABLE CP

X/L S .8685

PHI

.000	.1187
22.500	.1629
45.000	.1868
67.500	.1908
90.000	.1431
112.500	.0804
135.000	.0363
157.500	-.0005
180.000	.0054
202.500	.0282
225.000	.0584
247.500	.1229
270.000	.1330
292.500	.0735
315.000	-.0378
337.500	.0218
360.000	.1187

MACH (1) = .600 BETA (2) = .000 0 = 4.3003 PTA = 22.012 RL = 4.9733 PSA = 17.308

SECTION (1) SRM 80% SHROUD DEPENDENT VARIABLE CP

X/L S .8685

PHI

.000	.1260
22.500	.1695
45.000	.1656
67.500	.1440
90.000	.1187
112.500	.0972
135.000	.0825
157.500	.0912
180.000	.0734
202.500	.1021
225.000	.1917
247.500	.2189
270.000	.1488

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TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) TO 53/2 53/2 03 5PM SHROUD (REBESSN)

MACH (1) = .600 BETA (2) = .000

SECTION (1) 5PM 5005 SHROUD DEPENDENT VARIABLE CP

X/LS .6000

PHI
 252.500 .1818
 315.000 -.0191
 337.500 .0609
 360.000 .1280

MACH (1) = .600 BETA (3) = 4.000 0 = 4.3053 PTA = 22.012 RL = 4.9733 PSA = 17.309

DEPENDENT VARIABLE CP

SECTION (1) 5PM 5005 SHROUD

X/LS .6000

PHI
 .000 .0814
 22.500 .1313
 45.000 .1183
 67.500 .0944
 90.000 .0695
 112.500 .0507
 135.000 .0479
 157.500 .1197
 180.000 .2040
 202.500 .2342
 225.000 .2542
 247.500 .2189
 270.000 .0277
 292.500 .0113
 315.000 -.0750
 337.500 -.0059
 360.000 .0814

MACH (2) = .600 BETA (1) = -4.000 0 = 7.3813 PTA = 22.005 RL = 6.2700 PSA = 13.033

DEPENDENT VARIABLE CP

SECTION (1) 5PM 5005 SHROUD

X/LS .6000

PHI
 .000 .1888
 22.500 .2748
 45.000 .2943
 67.500 .2817
 90.000 .2032
 112.500 .1393
 135.000 .0341
 157.500 .0052

MSFC 567(1A32F) TO S3/2 S3/2 03 SRM SHROUD (R8255H)

MACH (2) = .900 BETA (1) = -4.000

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5 .325

PHI
180.000
202.500
225.000
247.500
270.000
292.500
315.000
337.500
360.000

MACH (2) = .900 BETA (2) = .000 0 = 7.3813 PTA = 22.005 RL = 6.2700 PSA = 13.033

SECTION (1) SRM 8006 SHROUD DEPENDENT VARIABLE CP

X/L5 .625

PHI
.000
22.500
45.000
67.500
90.000
112.500
135.000
157.500
180.000
202.500
225.000
247.500
270.000
292.500
315.000
337.500
360.000

TABLATED SOURCE DATA, MFPC TMT 587 (1A3ZF)

DATE 08 SEP 75

MFPC 587(1A3ZF) TO 83/2 53/2 03 SPM SHROUD (R82554)

MACH (2) = .800 BETA (3) = 4.000 Q = 7.3813 PTA = 22.005 RL = 8.2700 PSA = 13.033

SECTION (1) SPM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5 .0000

PHI	.000	.0048
22.500	.1639	
45.000	.1802	
67.500	.1302	
90.000	.1123	
112.500	.0834	
135.000	.0907	
157.500	.1781	
180.000	.2839	
202.500	.2987	
225.000	.2773	
247.500	.2099	
270.000	-.0491	
292.500	-.0182	
315.000	-.1089	
337.500	-.0307	
360.000	.0648	

MACH (3) = 1.020 BETA (1) = -4.000 Q = 8.4020 PTA = 22.003 RL = 8.5833 PSA = 11.264

SECTION (1) SPM 8006 SHROUD DEPENDENT VARIABLE CP

X/L5 .0000

PHI	.000	.2874
22.500	.3989	
45.000	.4127	
67.500	.3701	
90.000	.3077	
112.500	.2388	
135.000	.1804	
157.500	.0886	
180.000	.0583	
202.500	.0754	
225.000	.1488	
247.500	.1714	
270.000	.1438	
292.500	.1199	
315.000	-.1213	
337.500	.1368	
360.000	.2874	

TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MACH (3) = 1.050 BETA (2) = .000 C = 8.4020 PTA = 22.003 RL = 6.5633 PSA = 11.064
 MSFC 567(1A32F) T9 53/2 53/2 03 SRM SHROUD (R82554)

SECTION (1) SRM 800E SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.9255	.000
.2640	.2640
.3408	.3408
.3488	.3488
.3022	.3022
.2608	.2608
.2191	.2191
.1813	.1813
.1648	.1648
.1317	.1317
.1427	.1427
.2266	.2266
.2012	.2012
.0931	.0931
.0927	.0927
-.0345	-.0345
.1318	.1318
.2540	.2540

MACH (3) = 1.050 BETA (3) = 4.000 Q = 8.4020 PTA = 22.003 RL = 6.5633 (SA = 11.064)

SECTION (1) SRM 800E SHROUD DEPENDENT VARIABLE CP

X/LS	PHI
.9255	.000
.1435	.1435
.2342	.2342
.2450	.2450
.1983	.1983
.1681	.1681
.1508	.1508
.1496	.1496
.2261	.2261
.3717	.3717
.3538	.3538
.3348	.3348
.2384	.2384
-.0987	-.0987
.0176	.0176
-.0980	-.0980
.0165	.0165
.1435	.1435

DATE 05 SEP 75
ISOLATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A72F) TO 53/2 53/2 03 SPM SPROLD (1902554)

MACH (4) = 1.250 BETA (1) = -4.000 Q = 9.2790 PTA = 22.005 PL = 6.6800 PSA = 8.5363

SECTION (1) SPM 6005 SPROLD
DEPENDENT VARIABLE CP

X/L5	PHI
.0000	.0000
.0005	.3636
.0010	.4710
.0015	.4500
.0020	.4749
.0025	.4101
.0030	.3367
.0035	.2452
.0040	.1377
.0045	.0487
.0050	.0338
.0055	.0599
.0060	.1273
.0065	.1230
.0070	.0951
.0075	.0632
.0080	-.1562
.0085	.1882
.0090	.3635

SECTION (2) SPM 6005 SPROLD
DEPENDENT VARIABLE CP

X/L5	PHI
.0000	.2418
.0005	.3290
.0010	.3496
.0015	.3035
.0020	.2512
.0025	.2062
.0030	.1680
.0035	.1365
.0040	.1244
.0045	.1604
.0050	.2160
.0055	.1905
.0060	.0619
.0065	.0332
.0070	-.1207
.0075	.1210
.0080	.2418

TABLULATED SOURCE DATA, MSFC TWT 967 (1A32F)

DATE 05 SEP 75

MSFC 967(1A32F) T9 S3/2 53/2 03 SRM SHROUD (RBESSN)

MACH (4) = 1.250 BETA (3) = 4.000 Q = 9.2790 PTA = 22.005 RL = 6.6900 PSA = 8.5353

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.1064
22.500	.2155	
45.000	.2518	
67.500	.2148	
90.000	.1983	
112.500	.1430	
135.000	.1562	
157.500	.2313	
180.000	.3562	
202.500	.3592	
225.000	.2819	
247.500	.1683	
270.000	-.0211	
292.500	-.0009	
315.000	-.1467	
337.500	-.0211	
360.000	.1064	

MACH (5) = 1.460 BETA (1) = -4.000 Q = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 6.3713

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.4465
22.500	.5169	
45.000	.4856	
67.500	.4159	
90.000	.3469	
112.500	.2620	
135.000	.1918	
157.500	.1116	
180.000	.0751	
202.500	.0801	
225.000	.1703	
247.500	.1330	
270.000	.1510	
292.500	.0612	
315.000	-.1118	
337.500	.3483	
360.000	.4465	

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TABLATED SOURCE DATA, MSFC THT 567 (1A3EF)

DATE 05 SEP 75

MSFC 567(1A3EF) T9 S3/2 S3/2 03 SRM SHROLD (R62554)

MACH (6) = 1.480 BETA (2) = .000 0 = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 6.3713

SECTION (1) SRM 8006 SHROLD DEPENDENT VARIABLE CP

X/LS	PHI
.0000	.3062
.0000	.3883
.0000	.3744
.0000	.3279
.0000	.2765
.0000	.2254
.0000	.1907
.0000	.1703
.0000	.1380
.0000	.1986
.0000	.1973
.0000	.1226
.0000	.0947
.0000	.0881
.0000	-.0688
.0000	.0087
.0000	.2062

MACH (6) = 1.480 BETA (3) = 4.000 0 = 9.4747 PTA = 22.010 RL = 6.5300 PSA = 6.3713

SECTION (1) SRM 8006 SHROLD DEPENDENT VARIABLE CP

X/LS	PHI
.0000	.1714
.0000	.2932
.0000	.3040
.0000	.2343
.0000	.1690
.0000	.1751
.0000	.1747
.0000	.2289
.0000	.3534
.0000	.3448
.0000	.2608
.0000	.1681
.0000	.0176
.0000	.0220
.0000	-.1013
.0000	.0364
.0000	.1714

DATE 05 SEP 75
TABULATED SOURCE DATA, NSFC TMT 587 (1A32F)

NSFC 587(1A32F) TO 53/2 53/2 03 SRM SHROUD (R82594)

MACH (0) = 1.000 BETA (1) = -4.000 Q = 10.000 PTA = 28.000 PL = 7.0033 PSA = 3.8550

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .0000

PHI	.000
.000	.4650
22.500	.4200
45.000	.1301
67.500	.1611
90.000	.1901
112.500	.1534
135.000	.1042
157.500	.0504
180.000	.0578
202.500	.0555
225.000	.1151
247.500	.1383
270.000	.1430
292.500	-.1038
315.000	.0682
337.500	.3321
360.000	.4620

MACH (0) = 1.000 BETA (2) = .000 Q = 10.000 PTA = 28.000 PL = 7.0033 PSA = 3.8550

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .0000

PHI	.000
.000	.2622
22.500	.2631
45.000	.2504
67.500	.1868
90.000	.1538
112.500	.1585
135.000	.1411
157.500	.1254
180.000	.0974
202.500	.1942
225.000	.0988
247.500	.1011
270.000	.1213
292.500	-.0842
315.000	-.1053
337.500	.2473
360.000	.2822

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

(R82554)

MSFC 567(1A32F) TO S3/2 S3/2 03 SRM SHROUD

MACH (6) = 1.860 BETA (3) = 4.000 Q = 10.262 PTA = 28.008 RL = 7.0833 PSA = 3.8260

SECTION (1) SRM 800S SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI

.000	.2112
22.500	.2397
45.000	.1818
67.500	.1360
90.000	.1101
112.500	.1114
135.000	.0941
157.500	.2023
180.000	.2213
202.500	.2097
225.000	.1776
247.500	.1117
270.000	.0247
292.500	.0209
315.000	-.0967
337.500	.0421
360.000	.2112

MACH (7) = 2.900 BETA (1) = -4.000 Q = 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82600

SECTION (1) SRM 800S SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI

.000	.1872
22.500	.1781
45.000	.2189
67.500	.2081
90.000	.1458
112.500	.0680
135.000	.0518
157.500	.0148
180.000	-.0077
202.500	-.0198
225.000	.0716
247.500	.0633
270.000	.0817
292.500	.0224
315.000	-.0481
337.500	.0778
360.000	.1872

MACH (7) = 2.990 BETA (2) = .000 0 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82900
MSFC 567(1A32F) T9 53/2 53/2 03 SRM SHROUD (RBESS4)

SECTION (1) SRM 600S SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	.000
.000	.0951
22.500	.0772
45.000	.0712
67.500	.0656
90.000	.0601
112.500	.0384
135.000	.0444
157.500	.0522
180.000	.0362
202.500	.0577
225.000	.0748
247.500	.0656
270.000	.0591
292.500	-.0263
315.000	-.0252
337.500	.0345
360.000	.0951

MACH (7) = 2.990 BETA (3) = .000 0 5.1873 PTA = 30.007 RL = 4.1200 PSA = .82900

SECTION (1) SRM 600S SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	.000
-.000	-.0030
22.500	.0093
45.000	-.0040
67.500	-.0051
90.000	-.0070
112.500	-.0185
135.000	-.0129
157.500	.0798
180.000	.1492
202.500	.1078
225.000	.0448
247.500	.0281
270.000	.0371
292.500	.0302
315.000	.0199
337.500	.0431
360.000	-.0030

TABLULATED SOURCE DATA. MSFC TMT 567 (1A32F)

MSFC 567(1A32F) TO 53/2 53/2 03 SRM SHROUD (R02554)

MACH (8) = 3.480 BETA (1) = -4.000 Q = 5.7167 PTA = 50.012 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5	PH1
.0000	.000
.2125	.2125
.2175	.22500
.2629	.45.000
.2645	.67.500
.1627	.90.000
.0658	112.500
.0470	135.000
.0025	157.500
-.0026	180.000
.0086	202.500
.0687	225.000
.0416	247.500
.0768	270.000
.0294	292.500
-.0226	315.000
.0803	337.500
.2125	360.000

MACH (8) = 3.480 BETA (2) = .000 Q = 5.7167 PTA = 50.012 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5	PH1
.0000	.000
.1198	.22.500
.0681	.45.000
.0648	.67.500
.0687	.90.000
.0447	112.500
.0257	135.000
.0325	157.500
.0359	180.000
.0372	202.500
.0685	225.000
.0738	247.500
.0683	270.000
-.0018	292.500
-.0215	315.000
.0477	337.500
.1198	360.000

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 05 SEP 75

MSFC 567(1A32F) T9 53/2 53/2 03 SRM SHROUD (RBESSH)

MACH (8) = 3.480 BETA (3) = 4.000 Q = 5.7167 PTA = 50.012 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

A/LS	.9895
FHI	.0308
22.500	.0288
45.000	.0135
67.500	-.0080
90.000	-.0104
112.500	-.0215
135.000	-.0290
157.500	.0423
180.000	.1323
202.500	.0917
225.000	.0491
247.500	.0355
270.000	.0457
292.500	.0457
315.000	.0213
337.500	.0041
360.000	.0308

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TABLULATED SOURCE DATA, HBFC INT 567 (1A38F)

DATE 08 SEP 78 (822555) (24 APR 74)

HBFC 567(1A38F) TO 83/2 83/2 03 US SRY S-ROUD

PARAMETRIC DATA

BETA = .000 CONF10 = 80.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORB1INC = .500

REFERENCE DATA

SREF = 0.1880 80. IN. XPRP = 8.0480 IN.
LREF = 5.3130 IN. YPRP = .9720 IN.
BREF = 5.3130 IN. ZPRP = .0000 IN.
SCALE = .0040 SCALE

MACH (1) = .600 ALPHA (1) = -8.000 0 = 4.3384 PTA = 22.009 RL = 4.9820 PSA = 17.268

SECTION (1) SRY BOOS S-ROUD DEPENDENT VARIABLE CP

X/L5 .8688

PHI	.000
28.500	.0450
45.000	.1442
67.500	.1630
80.000	.1008
112.500	.0387
135.000	-.0028
157.500	-.0283
180.000	-.0384
202.500	.0385
225.000	.1389
247.500	.1047
270.000	-.0135
292.500	-.0457
315.000	-.1013
337.500	-.0683
360.000	.0450

MACH (2) = .800 ALPHA (2) = -8.000 0 = 4.3384 PTA = 22.009 RL = 4.9820 PSA = 17.268

SECTION (1) SRY BOOS S-ROUD DEPENDENT VARIABLE CP

X/L5 .8688

PHI	.000
22.500	.0430
45.000	.1334
67.500	.1383
90.000	.1112
112.500	.0944
135.000	.0728
157.500	.0591
180.000	.0538
202.500	.0264
225.000	.0243
247.500	.0985
270.000	.0982
292.500	-.0057

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

MSFC 567(1A32F) T9 53/2 53/2 03 U5 SRM SHROUD (R82555)

DATE 05 SEP 75

MACH (1) = .600 ALPHA (2) = -5.000

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	
292.500	-.0370
315.000	-.0970
337.500	-.0619
360.000	.0430

MACH (1) =	.600	ALPHA (3) =	.000	Q	=	4.3384	PTA	=	22.009	RL	=	4.9920	PSA	=	17.266
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SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	
.000	.0264
22.500	.0893
45.000	.1263
67.500	.1247
90.000	.1219
112.500	.1311
135.000	.1412
157.500	.1579
180.000	.1278
202.500	.1161
225.000	.0974
247.500	.1024
270.000	.0324
292.500	-.0234
315.000	-.1090
337.500	-.0626
360.000	.0264

MACH (1) =	.600	ALPHA (4) =	5.000	Q	=	4.3384	PTA	=	22.009	RL	=	4.9920	PSA	=	17.266
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SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS	.9555
PHI	
.000	.0129
22.500	.0959
45.000	.0713
67.500	.0510
90.000	.0876
112.500	.1328
135.000	.1873
157.500	.2179

TABULATED SOURCE DATA, MSFC TMT 567 (1A3ZF)

(102555)

MSFC 567(1A3ZF) TO S3/2 S3/2 03 US SRM S/R/ROD

DATE 05 SEP 75

MACH (1) = .600 ALPHA (4) = 5.000

SECTION (1) SRM 9005 S/R/ROD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	
180.000	.2074
202.500	.1831
225.000	.1574
247.500	.1429
270.000	.0486
292.500	.0110
315.000	-.0966
337.500	-.0819
360.000	.0129

MACH (1) = .600 ALPHA (5) = 8.000 0 = 4.3384 PTA = 22.000 RL = 4.9820 PSA = 17.286

SECTION (1) SRM 8005 S/R/ROD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	
.000	.0327
22.500	.0876
45.000	-.0117
67.500	-.0054
90.000	.0240
112.500	.0629
135.000	.1954
157.500	.2135
180.000	.2486
202.500	.2439
225.000	.1929
247.500	.1713
270.000	.0336
292.500	-.0029
315.000	-.1010
337.500	-.0602
360.000	.0327

TABULATED SOURCE DATA, MSFC TMT 517 (1A32F)

(R82555)

DATE 05 SEP 75

MSFC 567(1A32F) T9 S3/2 S3/2 03 US SRM SHROUD

MACH (2) = .900 ALPHA (1) = -8.000 0 = 7.3718 PT. = 22.012 RL = 6.2720 PSA = 13.023

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.0365
22.500	.1515	
45.000	.1927	
67.500	.1192	
90.000	.0514	
112.500	-.0055	
135.000	-.0403	
157.500	-.0418	
180.000	-.0611	
202.500	.0303	
225.000	.0324	
247.500	-.0062	
270.000	-.1149	
292.500	-.1062	
315.000	-.1743	
337.500	-.0905	
360.000	.0365	

MACH (2) = .900 ALPHA (2) = -5.000 0 = 7.3718 PTA = 22.012 RL = 6.2720 PSA = 13.023

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.0406
22.500	.1505	
45.000	.1780	
67.500	.1399	
90.000	.1214	
112.500	.0914	
135.000	.0821	
157.500	.0413	
180.000	.0068	
202.500	.0303	
225.000	.0449	
247.500	.0122	
270.000	-.0908	
292.500	-.0916	
315.000	-.1628	
337.500	-.0748	
360.000	.0406	

TABULATED SOURCE DATA, NSFC TMT 587 (1A32F)

DATE 05 SEP 78

(R82553)

NSFC 587(1A32F) 19 S3/2 S3/2 03 US SRM SHROUD

PSA = 13.023

MACH (2) = .800 ALPHA (3) = .000 Q = 7.3718 PTA = 22.012 RL = 6.2720

DEPENDENT VARIABLE CP

SECTION (1) SRM 8008 SHROUD

X/LS .9055

PHI
.000
.0273
22.500
.1162
45.000
.1477
67.500
.1756
90.000
.1894
112.500
.1995
135.000
.1943
157.500
.1927
180.000
.1315
202.500
.0716
225.000
.0287
247.500
.0259
270.000
-.0402
292.500
-.0715
315.000
-.1921
337.500
-.0729
360.000
.0273

PSA = 13.023

MACH (2) = .800 ALPHA (4) = 5.000 Q = 7.3718 PTA = 22.012 RL = 6.2720

DEPENDENT VARIABLE CP

SECTION (1) SRM 8008 SHROUD

X/LS .9236

PHI
.000
-.0050
22.500
.0508
45.000
.0629
67.500
.0678
90.000
.1193
112.500
.1852
135.000
.2390
157.500
.2885
180.000
.2345
202.500
.1488
225.000
.0882
247.500
.0842
270.000
.0034
292.500
-.0328
315.000
-.1324
337.500
-.0770
360.000
-.0050

TABULATED SOURCE DATA, MSFC TWT 567 (1A32F)

MSFC 567(1A32F) T9 S3/2 S3/2 03 US SRM SHROUD (RB2555)

MACH (2) = .900 ALPHA (5) = 8.000 Q = 7.2718 PTA = 22.012 RL = 6.2720 PSA = 13.323

SECTION (1158M 8005 SHROUD) DEPENDENT VARIABLE CP

X/LS 9555

PHI	.000	-.0013
22.500	.0391	
45.000	-.0122	
67.500	-.0137	
90.000	.0423	
112.500	.1309	
135.000	.2274	
157.500	.2690	
180.000	.3228	
202.500	.2397	
225.000	.1204	
247.500	.1144	
270.000	.0081	
292.500	-.0387	
315.000	-.1365	
337.500	-.0884	
360.000	-.0013	

MACH (3) = 1.050 ALPHA (1) = -8.000 Q = 8.4402 PTA = 22.012 RL = 6.2720 PSA = 10.992

SECTION (1158M 8005 SHROUD) DEPENDENT VARIABLE CP

X/LS .6555

PHI	.000	.1062
22.500	.2675	
45.000	.2927	
67.500	.2208	
90.000	.1443	
112.500	.0631	
135.000	.0128	
157.500	.0014	
180.000	.0003	
202.500	.1039	
225.000	.0772	
247.500	-.0073	
270.000	-.1388	
292.500	-.0993	
315.000	-.2526	
337.500	-.0357	
360.000	.1062	

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TABLATED SOURCE DATA, MSFC TMT 567 (1A32F)

MACH (31) = 1.050 ALPHA (2) = -5.000 0 = 8.4402 PTA = 22.012 PL = 6.5720 PSA = 10.982
 MSFC 567(1A32F) TO 53/2 53/2 03 US SRM SPROUD (R82555)

SECTION (1) SRM 8005 SPROUD DEPENDENT VARIABLE CP

X/LS	PH1
.0000	.1200
.0000	.2867
.0000	.2818
.0000	.2338
.0000	.1884
.0000	.1574
.0000	.1088
.0000	.0668
.0000	.0654
.0000	.0921
.0000	.0858
.0000	.0230
.0000	-.0979
.0000	-.0828
.0000	-.2241
.0000	-.0338
.0000	.1290

MACH (31) = 1.050 ALPHA (31) = .000 0 = 8.4402 PTA = 22.012 PL = 6.5720 PSA = 10.982

SECTION (1) SRM 2005 SPROUD DEPENDENT VARIABLE CP

X/LS	PH1
.0000	.0420
.0000	.2162
.0000	.2614
.0000	.2967
.0000	.2978
.0000	.2827
.0000	.2769
.0000	.2698
.0000	.2232
.0000	.1520
.0000	.0928
.0000	.0904
.0000	-.0031
.0000	-.0332
.0000	-.1794
.0000	-.0320
.0000	.0920

MACH (3) = 1.050 ALPHA (4) = 5.000 Q = 8.4402 PTA = 22.012 RL = 6.5720 PSA = 10.992
 MSFC 567(11A32F) T9 53/2 53/2 03 US SRM SHROUD (R82555)

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	
.000	.0539
22.500	.1880
45.000	.2169
67.500	.1770
90.000	.2051
112.500	.2816
135.000	.3491
157.500	.3997
180.000	.3474
202.500	.2287
225.000	.1592
247.500	.1477
270.000	.0576
292.500	.0156
315.000	-.1250
337.500	-.0378
360.000	.0639

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	
.000	.0724
22.500	.1284
45.000	.0764
67.500	.0902
90.000	.1489
112.500	.2512
135.000	.3672
157.500	.4210
180.000	.4498
202.500	.3575
225.000	.2063
247.500	.1829
270.000	.0506
292.500	.0147
315.000	-.1089
337.500	-.0361
360.000	.0724

TABLULATED SOURCE DATA, NSFC TMT 567 (1A32F)

NSFC 567(1A32F) 19 53/2 53/2 03 US SRM SHROUD (RECESS)

MACH (4) = 1.250 ALPHA (1) = -8.000 Q = 9.2788 PTA = 22.012 RL = 8.8900 PSA = 8.5490

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .8885

PHI	.000
22.500	.1291
45.000	.2644
67.500	.3113
90.000	.2607
112.500	.1693
135.000	.0726
157.500	.0410
180.000	.0260
202.500	-.0030
225.000	-.0753
247.500	-.0226
270.000	-.0353
292.500	-.1127
315.000	-.1067
337.500	-.2505
360.000	-.0219
	.1291

MACH (4) = 1.250 ALPHA (2) = -8.000 Q = 9.2788 PTA = 22.012 RL = 8.8900 PSA = 8.5490

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .8885

PHI	.000
22.500	.0932
45.000	.2403
67.500	.2924
90.000	.2485
112.500	.1988
135.000	.1378
157.500	.1057
180.000	.0699
202.500	.0210
225.000	.0618
247.500	.0095
270.000	-.0767
292.500	-.0681
315.000	-.2341
337.500	-.0230
360.000	.0932

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 09 SEP 75

MSFC 567(1A32F) T8 53/2 53/2 03 U5 SRM SHROUD (R82555)

MACH (4) = 1.250 ALPHA (3) = .000 0 = 9.2798 PTA = 22.012 RL = 6.6900 PSA = 8.5490

SECTION (1) SRM 800S SHROUD DEPENDENT VARIABLE CP

X/L5 .9595

PHI	.000
22.500	.0952
45.000	.2063
67.500	.2696
90.000	.2818
112.500	.2911
135.000	.2826
157.500	.2528
180.000	.2296
202.500	.2066
225.000	.1637
247.500	.0831
270.000	.0565
292.500	-.0045
315.000	-.0425
337.500	-.2847
360.000	-.0439
	.0952

MACH (4) = 1.250 ALPHA (4) = 5.000 0 = 9.2798 PTA = 22.012 RL = 6.6900 PSA = 8.5490

SECTION (1) SRM 800S SHROUD DEPENDENT VARIABLE CP

X/L5 .9555

PHI	.000
22.500	.0525
45.000	.1654
67.500	.2456
90.000	.1981
112.500	.1821
135.000	.2097
157.500	.2830
180.000	.3323
202.500	.2835
225.000	.1564
247.500	.1191
270.000	.0516
292.500	.0042
315.000	-.1801
337.500	-.0395
360.000	.0525

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TABLATED SOURCE DATA, MSFC TNT 907 (11A3EF)

DATE 05 SEP 75

MSFC 967(11A3EF) T9 S3/2 S3/2 03 US SWM S#R0LD (R02E56)

MACH (4) = 1.250 ALPHA (5) = 8.000 Q = 9.2708 PTA = 22.012 RL = 6.6900 PSA = 8.2400

DEPENDENT VARIABLE CP

SECTION (1) SWM 8005 S#R0LD

X/L5 .9555

PHI	.000	.0397
22.500	.1453	
45.000	.1415	
67.500	.1107	
90.000	.1471	
112.500	.2468	
135.000	.3412	
157.500	.4263	
180.000	.4123	
202.500	.3210	
225.000	.1885	
247.500	.1477	
270.000	.0678	
292.500	.0184	
315.000	-.1557	
337.500	-.0591	
360.000	.0397	

MACH (5) = 3.500 ALPHA (1) = -8.000 Q = 5.7188 PTA = 50.011 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SWM 8005 S#R0LD

X/L5 .9555

PHI	.000	.1319
22.500	.1045	
45.000	.0650	
67.500	.0274	
90.000	-.0050	
112.500	-.0186	
135.000	-.0296	
157.500	-.0371	
180.000	-.0314	
202.500	.0118	
225.000	.0403	
247.500	.0094	
270.000	.0514	
292.500	.0027	
315.000	-.0293	
337.500	.0328	
360.000	.1316	

TABLATED SOURCE DATA, MSFC TWT 567 (1A32F)

MSFC 567(1A32F) T8 53/2 53/2 03 U3 SRM SHROUD (R82555)

MACH (5) = 3.500 ALPHA (2) = -5.000 Q = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000
.1218	.1218
22.500	.1018
45.000	.0802
67.500	.0558
90.000	.0342
112.500	.0166
135.000	.0227
157.500	.0176
180.000	.0301
202.500	.0524
225.000	.0788
247.500	.0738
270.000	.1028
292.500	.0707
315.000	-.0067
337.500	.0406
360.000	.1218

MACH (5) = 3.500 ALPHA (3) = .000 Q = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000
.1269	.1269
22.500	.1350
45.000	.1668
67.500	.2094
90.000	.2158
112.500	.1137
135.000	.1225
157.500	.1208
180.000	.1387
202.500	.1106
225.000	.0680
247.500	.0785
270.000	.0991
292.500	.0677
315.000	.0115
337.500	.0582
360.000	.1269

TABLATED SOURCE DATA, MSFC THT 967 (11A3EF)

DATE 05 SEP 75

MSFC 967(11A3EF) TO 53/2 53/2 03 US SRM SHROUD (R25553)

MACH (5) = 3.500 ALPHA (4) = 5.000 Q = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .9255

PHI
.000
.2148
.2233
.2148
.1868
.1804
.1597
.185.
.1905
.1788
.1378
.1150
.1147
.1428
.1083
.0369
.1248
.2148

MACH (5) = 3.500 ALPHA (5) = 6.000 Q = 5.7168 PTA = 50.011 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8006 SHROUD DEPENDENT VARIABLE CP

X/LS .9255

PHI
.1888
.2510
.1788
.1285
.1308
.1529
.2182
.2050
.2219
.1881
.1563
.1519
.1952
.0281
.0335
.1610
.1999

MSFC 567(1A32F) T9 S3/2 S3/2 03 U5 SRM SHROUD (R82556) (24 APR 74)

REFERENCE DATA
SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .9720 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040 SCALE

PARAMETRIC DATA
ALPHA = .000 CONFIG = 90.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .500

MACH (1) = .600 BETA (1) = -8.000 Q = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	.000
	.0481
22.500	.1672
45.000	.1993
67.500	.2067
90.000	.2081
112.500	.1605
135.000	.1233
157.500	.0560
180.000	-.0108
202.500	-.0217
225.000	.0127
247.500	.0436
270.000	.0447
292.500	.0082
315.000	-.1121
337.500	-.0735
350.000	.0481

MACH (1) = .600 BETA (2) = -4.000 Q = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/L5	.9555
PHI	.000
	.0348
22.500	.1120
45.000	.1589
67.500	.1683
90.000	.1668
112.500	.1550
135.000	.1423
157.500	.1157
180.000	.0835
202.500	.0571
225.000	.0587
247.500	.0769
270.000	.0510

DATE 05 SEP 78

TABLATED SOURCE DATA, NSFC TMT 887 (11A32F)

NSFC 887(11A32F) TO 83/2 83/2 03 US SRM SPROUD (RECESS)

MACH (1) = .600 BETA (2) = -4.000

SECTION (1) SRM 800S SPROUD DEPENDENT VARIABLE CP

X/LS .8685

PHI	
292.500	.0028
315.000	-.0728
337.500	-.0588
360.000	.0348

MACH (1) = .600 BETA (3) = .000 Q = 4.3854 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM 800S SPROUD DEPENDENT VARIABLE CP

X/LS .8685

PHI	
.000	.0284
22.500	.0883
45.000	.1283
67.500	.1247
90.000	.1219
112.500	.1311
135.000	.1412
157.500	.1579
180.000	.1278
202.500	.1161
225.000	.0974
247.500	.105-
270.000	.0324
292.500	-.0234
315.000	-.1080
337.500	-.0628
360.000	.0284

MACH (1) = .600 BETA (4) = 4.000 Q = 4.3854 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM 800S SPROUD DEPENDENT VARIABLE CP

X/LS .8633

PHI	
.000	-.0035
22.500	.0428
45.000	.0913
67.500	.0807
90.000	.0883
112.500	.1247
135.000	.1332
157.500	.1835

MSFC 567(1A3ZF) TO 53/2 53/2 03 US SRM SRR0LD

(R82558)

MACH (1) = .600 BETA (4) = 4.000

SECTION (1) SRM 800S SRR0LD DEPENDENT VARIABLE CP

X/LS	.9255
PHI	
180.000	.1812
202.500	.1844
225.000	.1550
247.500	.1324
270.000	-.0154
292.500	-.0468
315.000	-.1129
337.500	-.0770
360.000	-.0035

MACH (1) = .600 BETA (5) = 6.000 Q = 4.3654 PTA = 22.011 RL = 5.0040 PSA = 17.234

SECTION (1) SRM 800S SRR0LD DEPENDENT VARIABLE CP

X/LS	.9255
PHI	
.000	-.0252
22.500	.0039
45.000	.0091
67.500	.0330
90.000	.0578
112.500	.0711
135.000	.1172
157.500	.1567
180.000	.2498
202.500	.3214
225.000	.2219
247.500	.1358
270.000	-.0163
292.500	-.0389
315.000	-.1070
337.500	-.0825
360.000	-.0252

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TABULATED SOURCE DATA, MFSC TNT 567 (1A3ZF)

DATE 03 SEP 76

MFSC 567(1A3ZF) TO 53/2 53/2 03 US 5RM 5R0LD (R62558)

MACH (2) = .500 BETA (1) = -8.000 0 = 7.3620 PTA = 22.011 RL = 6.2700 PSA = 13.039

SECTION (1) 5RM 5005 2-R0LD DEPENDENT VARIABLE CP

X/LS	.9058
PHI	.000
	.0084
	.1850
	.2685
	.2951
	.2873
	.2405
	.1643
	.0789
	-.0439
	-.0959
	-.0818
	-.0308
	-.0141
	-.0487
	-.2074
	-.0539
	.0684

MACH (2) = .500 BETA (2) = -4.000 0 = 7.3620 PTA = 22.011 RL = 6.2700 PSA = 13.039

SECTION (1) 5RM 5005 5-R0LD DEPENDENT VARIABLE CP

X/LS	.9058
PHI	.000
	.0787
	.1593
	.1909
	.2305
	.2349
	.2101
	.1809
	.1282
	.0644
	.0082
	-.0058
	.0073
	-.0152
	-.0478
	-.1435
	-.0361
	.0787

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

MSFC 567(1A32F) T9 53/2 53/2 03 U5 SRM SHROUD (RB2556)

MACH (2) = .900 BETA (3) = .000 Q = 7.3620 PTA = 22.011 RL = 6.2700 PSA = 13.039

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.0273
22.500	.1162	
45.000	.1477	
67.500	.1756	
90.000	.1654	
112.500	.1695	
135.000	.1943	
157.500	.1927	
180.000	.1315	
202.500	.0716	
225.000	.0297	
247.500	.0259	
270.000	-.0402	
292.500	-.0715	
315.000	-.1521	
337.500	-.0729	
360.000	.0273	

MACH (2) = .900 BETA (4) = .000 Q = 7.3620 PTA = 22.011 RL = 6.2700 PSA = 13.039

SECTION (1) SRM BOOS SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	-.0163
22.500	.0466	
45.000	.0694	
67.500	.0896	
90.000	.1068	
112.500	.1702	
135.000	.1781	
157.500	.2184	
180.000	.2050	
202.500	.1377	
225.000	.0905	
247.500	.0637	
270.000	-.0408	
292.500	-.0639	
315.000	-.1247	
337.500	-.0854	
360.000	-.0163	

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MSFC 567(1A32F) T9 S3/2 S3/2 03 U5 SRM SHROUD (R82556)

MACH (3) = 1.050 BETA (2) = -4.000 0 = 8.4534 PTA = 22.009 RL = 6.5780 PSA = 10.368

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.1779
	22.500	.2878
	45.000	.3525
	67.500	.3710
	90.000	.3712
	112.500	.3457
	135.000	.3090
	157.500	.2610
	180.000	.1630
	202.500	.0802
	225.000	.0470
	247.500	.0857
	270.000	.0703
	292.500	.0225
	315.000	-.2414
	337.500	.0294
	350.000	.1779

MACH (3) = 1.050 BETA (3) = .000 0 = 8.4534 PTA = 22.009 RL = 6.5780 PSA = 10.368

SECTION (1) SRM 8005 SHROUD DEPENDENT VARIABLE CP

X/LS .9555

PHI	.000	.0920
	22.500	.2162
	45.000	.2614
	67.500	.2967
	90.000	.2978
	112.500	.2827
	135.000	.2769
	157.500	.2598
	180.000	.2232
	202.500	.1520
	225.000	.0999
	247.500	.0904
	270.000	-.0031
	292.500	-.0332
	315.000	-.1754
	337.500	-.0320
	350.000	.0920

TABULATED SOURCE DATA, NSFC THT 567 (1A3ZF)

(1982556)

NSFC 567(1A3ZF) 19 53/2 53/2 03 US SRM SHROUD

MACH (3) = 1.020 BETA (4) = 4.000 Q = 0.4334 PTA = 22.009 PL = 6.5780 PSA = 12.928

SECTION (1) SRM 8006 SHROUD DEPENDENT VARIABLE CP

X/L5	.9285
PHI	.0284
.000	.0920
22.500	.1173
45.000	.1516
67.500	.1757
90.000	.2481
112.500	.2570
135.000	.3178
157.500	.2912
180.000	.1873
202.500	.1335
225.000	.1127
247.500	-.0315
270.000	-.0545
292.500	-.1221
315.000	-.0572
337.500	.0284
360.000	

MACH (3) = 1.020 BETA (5) = 0.000 Q = 0.4334 PTA = 22.009 PL = 6.5780 PSA = 12.928

SECTION (1) SRM 8006 SHROUD DEPENDENT VARIABLE CP

X/L5	.9285
PHI	-.0142
.000	.0485
22.500	.0677
45.000	.0868
67.500	.1542
90.000	.2053
112.500	.2802
135.000	.3078
157.500	.0261
180.000	.2299
202.500	.1550
225.000	.1331
247.500	-.0219
270.000	-.0421
292.500	-.1588
315.000	-.0780
337.500	-.0142
360.000	

TABULATED SOURCE DATA, MSFC TMT 807 (1A32F)

MSFC 807(1A32F) TO 83/2 83/2 03 US SRM SPROUD (R82556)

MACH (4) = 1.250 BETA (1) = -0.000 Q = 9.2830 PTA = 22.009 RL = 6.6880 PSA = 0.5280

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S SPROUD

X/L5 .0255

PHI	.000	.2601
22.500	.4029	
45.000	.3932	
67.500	.3697	
90.000	.3793	
112.500	.3399	
135.000	.2574	
157.500	.1999	
180.000	.0357	
202.500	-.0447	
225.000	-.0022	
247.500	.0742	
270.000	.0721	
292.500	-.0366	
315.000	-.3337	
337.500	.0885	
350.000	.2601	

MACH (4) = 1.250 BETA (2) = -4.000 Q = 9.2830 PTA = 22.009 RL = 6.6880 PSA = 0.5280

DEPENDENT VARIABLE CP

SECTION (1) SRM 800S SPROUD

X/L5 .0555

PHI	.000	.1981
22.500	.3485	
45.000	.3545	
67.500	.3282	
90.000	.3218	
112.500	.2930	
135.000	.2493	
157.500	.2004	
180.000	.1137	
202.500	.0429	
225.000	.0076	
247.500	.0333	
270.000	.0375	
292.500	-.0363	
315.000	-.1699	
337.500	.0741	
350.000	.1981	

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TABLULATED SOURCE DATA, MSFC THT 567 (1A3EF)

MSFC 967(1A3EF) T9 S3/2 03 U5 SRM SHROLD (R82556)

MACH (4) = 1.250 BETA (3) = .000 Q = 9.2630 PTA = 22.009 RL = 6.6880 PSA = 8.5280

SECTION (1) SRM 8006 SHROLD DEPENDENT VARIABLE CP

X/L5	.9635
PHI	.000
	.0922
	.2083
	.45.000
	.2696
	.67.500
	.5818
	.90.000
	.2911
	.112.500
	.2826
	.135.000
	.2529
	.157.500
	.2286
	.180.000
	.2068
	.202.500
	.1637
	.225.000
	.0831
	.247.500
	.0565
	.270.000
	-.0045
	.292.500
	-.0425
	.315.000
	-.2847
	.337.500
	-.0438
	.360.000
	.0952

MACH (4) = 1.250 BETA (4) = 4.000 Q = 9.2630 PTA = 22.009 RL = 6.6880 PSA = 8.5280

SECTION (1) SRM 8005 SHROLD DEPENDENT VARIABLE CP

X/L5	.9635
PHI	.000
	.0294
	.1082
	.1372
	.1631
	.1741
	.1871
	.2011
	.2141
	.2286
	.2387
	.1317
	.0612
	-.1241
	-.1088
	-.1873
	-.0718
	.0204

TABLULATED SOURCE DATA, MSFC TMT 567 (1A32F)

DATE 09 SEP 75

(R82556)

MSFC 567(1A32F) T9 S3/2 S3/2 03 U5 SRM SHROUD

MACH (4) = 1.250 BETA (5) = 8.000 Q = 9.2630 PTA = 22.009 RL = 5.6880 PSA = 8.5280

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 SHROUD

X/L5 .6555

PHI	.000	-.0232
22.500	.0382	
45.000	.0617	
67.500	.0878	
90.000	.1243	
112.500	.1683	
135.000	.2173	
157.500	.2700	
180.000	.3272	
202.500	.2773	
225.000	.1888	
247.500	.1403	
270.000	-.0338	
292.500	-.0604	
315.000	-.1987	
337.500	-.0837	
360.000	-.0232	

MACH (5) = 3.500 BETA (1) = -8.000 Q = 5.7178 PTA = 50.018 RL = 5.3300 PSA = .67500

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 SHROUD

X/L5 .6555

PHI	.000	.3282
22.500	.3582	
45.000	.4848	
67.500	.5119	
90.000	.3285	
112.500	.2872	
135.000	.2602	
157.500	.2290	
180.000	.1032	
202.500	.1045	
225.000	.1137	
247.500	.1109	
270.000	.1499	
292.500	-.0171	
315.000	-.0213	
337.500	.1939	
360.000	.3282	

TABLATED SOURCE DATA, NSFC TMT 967 (11A32F)

(R82556)

DATE 03 SEP 75

NSFC 967(11A32F) TO 53/2 53/2 03 US SRM SHROUD

PSA = .67500

PSA = 5.3300

RL = 50.018

PTA = 50.018

Q = 5.7176

BETA (2) = -4.000

BETA (3) = 3.500

BETA (5) = 3.500

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 SHROUD

X/LS .6000

PHI	.000
.2331	
22.500	.2826
45.000	.3204
67.500	.3580
90.000	.3921
112.500	.4220
135.000	.4481
157.500	.4704
180.000	.4898
202.500	.5063
225.000	.5199
247.500	.5304
270.000	.5387
292.500	.5450
315.000	.5493
337.500	.5528
360.000	.5553

MACH (5) = 3.500 BETA (3) = .000 Q = 5.7176 PTA = 50.018 RL = 50.018 PSA = 5.3300

DEPENDENT VARIABLE CP

SECTION (1) SRM 8005 SHROUD

X/LS .6000

PHI	.000
.1269	
22.500	.1390
45.000	.1668
67.500	.2094
90.000	.2159
112.500	.1137
135.000	.1275
157.500	.1208
180.000	.1367
202.500	.1106
225.000	.0960
247.500	.0785
270.000	.0881
292.500	.0677
315.000	.0115
337.500	.0952
360.000	.1269

TABLATED SOURCE DATA, MSFC THT 567 (11A32F)

DATE 05 SEP 75

MSFC 567(11A32F) 19 53/2 53/2 03 U5 SRM S-ROUD (R82556)

MACH (3) = 3.500 BETA (4) = 4.000 Q = 5.7178 PTA = 50.018 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 S-ROUD DEPENDENT VARIABLE CP

X/L5	PHI
.0000	.0000
.0025	.0024
.0050	.0041
.0075	.0064
.0100	.0094
.0125	.0132
.0150	.0178
.0175	.0233
.0200	.0298
.0225	.0374
.0250	.0461
.0275	.0559
.0300	.0668
.0325	.0788
.0350	.0919
.0375	.1062
.0400	.1217
.0425	.1384
.0450	.1563
.0475	.1754
.0500	.1957
.0525	.2172
.0550	.2399
.0575	.2638
.0600	.2889
.0625	.3152
.0650	.3427
.0675	.3714
.0700	.4013
.0725	.4324
.0750	.4647
.0775	.4982
.0800	.5329
.0825	.5688
.0850	.6059
.0875	.6442
.0900	.6837
.0925	.7244
.0950	.7663
.0975	.8094
.1000	.8537
.1025	.8992
.1050	.9459
.1075	.9938
.1100	1.0429
.1125	1.0932
.1150	1.1447
.1175	1.1974
.1200	1.2513
.1225	1.3064
.1250	1.3627
.1275	1.4202
.1300	1.4789
.1325	1.5388
.1350	1.6000
.1375	1.6624
.1400	1.7261
.1425	1.7911
.1450	1.8574
.1475	1.9250
.1500	2.0000
.1525	2.0764
.1550	2.1542
.1575	2.2334
.1600	2.3141
.1625	2.3963
.1650	2.4800
.1675	2.5653
.1700	2.6522
.1725	2.7407
.1750	2.8308
.1775	2.9225
.1800	3.0158
.1825	3.1108
.1850	3.2074
.1875	3.3057
.1900	3.4057
.1925	3.5074
.1950	3.6108
.1975	3.7159
.2000	3.8227
.2025	3.9312
.2050	4.0414
.2075	4.1533
.2100	4.2670
.2125	4.3825
.2150	4.5000
.2175	4.6194
.2200	4.7408
.2225	4.8642
.2250	4.9897
.2275	5.1172
.2300	5.2468
.2325	5.3784
.2350	5.5121
.2375	5.6479
.2400	5.7858
.2425	5.9259
.2450	6.0682
.2475	6.2127
.2500	6.3594
.2525	6.5083
.2550	6.6594
.2575	6.8127
.2600	6.9683
.2625	7.1262
.2650	7.2864
.2675	7.4489
.2700	7.6137
.2725	7.7809
.2750	7.9504
.2775	8.1223
.2800	8.2966
.2825	8.4734
.2850	8.6527
.2875	8.8345
.2900	9.0189
.2925	9.2059
.2950	9.3955
.2975	9.5878
.3000	9.7828
.3025	9.9805
.3050	10.1809
.3075	10.3840
.3100	10.5899
.3125	10.7986
.3150	11.0102
.3175	11.2247
.3200	11.4422
.3225	11.6627
.3250	11.8863
.3275	12.1130
.3300	12.3428
.3325	12.5757
.3350	12.8118
.3375	13.0511
.3400	13.2936
.3425	13.5393
.3450	13.7883
.3475	14.0406
.3500	14.2962
.3525	14.5552
.3550	14.8176
.3575	15.0834
.3600	15.3527
.3625	15.6255
.3650	15.9019
.3675	16.1819
.3700	16.4655
.3725	16.7528
.3750	17.0438
.3775	17.3385
.3800	17.6369
.3825	17.9391
.3850	18.2451
.3875	18.5549
.3900	18.8686
.3925	19.1863
.3950	19.5080
.3975	19.8338
.4000	20.1637
.4025	20.4978
.4050	20.8361
.4075	21.1786
.4100	21.5253
.4125	21.8763
.4150	22.2316
.4175	22.5913
.4200	22.9554
.4225	23.3240
.4250	23.6971
.4275	24.0748
.4300	24.4571
.4325	24.8441
.4350	25.2358
.4375	25.6323
.4400	26.0336
.4425	26.4397
.4450	26.8507
.4475	27.2667
.4500	27.6877
.4525	28.1138
.4550	28.5450
.4575	28.9813
.4600	29.4228
.4625	29.8695
.4650	30.3215
.4675	30.7784
.4700	31.2405
.4725	31.7078
.4750	32.1804
.4775	32.6583
.4800	33.1415
.4825	33.6400
.4850	34.1339
.4875	34.6333
.4900	35.1393
.4925	35.6509
.4950	36.1682
.4975	36.6913
.5000	37.2203
.5025	37.7453
.5050	38.2764
.5075	38.8136
.5100	39.3569
.5125	39.9064
.5150	40.4621
.5175	41.0241
.5200	41.5924
.5225	42.1670
.5250	42.7480
.5275	43.3353
.5300	43.9290
.5325	44.5292
.5350	45.1350
.5375	45.7474
.5400	46.3664
.5425	46.9930
.5450	47.6263
.5475	48.2664
.5500	48.9133
.5525	49.5671
.5550	50.2279
.5575	50.8958
.5600	51.5707
.5625	52.2528
.5650	52.9421
.5675	53.6387
.5700	54.3427
.5725	55.0542
.5750	55.7733
.5775	56.4999
.5800	57.2342
.5825	57.9763
.5850	58.7253
.5875	59.4823
.5900	60.2474
.5925	61.0206
.5950	61.8020
.5975	62.5917
.6000	63.3898
.6025	64.1964
.6050	65.0116
.6075	65.8354
.6100	66.6679
.6125	67.5092
.6150	68.3594
.6175	69.2186
.6200	70.0869
.6225	70.9644
.6250	71.8512
.6275	72.7474
.6300	73.6531
.6325	74.5684
.6350	75.4934
.6375	76.4282
.6400	77.3729
.6425	78.3276
.6450	79.2924
.6475	80.2674
.6500	81.2527
.6525	82.2484
.6550	83.2546
.6575	84.2714
.6600	85.2989
.6625	86.3372
.6650	87.3864
.6675	88.4466
.6700	89.5179
.6725	90.5994
.6750	91.6922

MACH (5) = 3.500 BETA (6) = 8.000 Q = 9.7178 PTA = 50.018 RL = 5.3300 PSA = .67500

SECTION (1) SRM 8005 S-ROUD DEPENDENT VARIABLE CP

X/L5	PHI
.0000	.0000
.0025	.0024
.0050	.0041
.0075	.0064
.0100	.0094
.0125	.0132
.0150	.0178
.0175	.0233
.0200	.0298
.0225	.0374
.0250	.0461
.0275	.0559
.0300	.0668
.0325	.0788
.0350	.0919
.0375	.1062
.0400	.1217
.0425	.1384
.0450	.1563
.0475	.1754
.0500	.1957
.0525	.2172
.0550	.2399
.0575	.2638
.0600	.2889
.0625	.3152
.0650	.3427
.0675	.3714
.0700	.4013
.0725	.4324
.0750	.4647
.0775	.4982
.0800	.5329
.0825	.5688
.0850	.6059
.0875	.6442
.0900	.6837
.0925	.7244
.0950	.7663
.0975	.8094
.1000	.8537
.1025	.8992
.1050	.9459
.1075	.9938
.1100	1.0429
.1125	1.0932
.1150	1.1447
.1175	1.1974
.1200	1.2513
.1225	1.3064
.1250	1.3627
.1275	1.4202
.1300	1.4789
.1325	1.5388
.1350	1.6000
.1375	1.6624
.1400	1.7261
.1425	1.7911
.1450	1.8574
.1475	1.9250
.1500	2.0000
.1525	2.0764
.1550	2.1542
.1575	2.2334
.1600	2.3141
.1625	2.3963
.1650	2.4800
.1675	2.5653
.1700	2.6522
.1725	2.7407
.1750	2.8308
.1775	2.9225
.1800	3.0158
.1825	3.1108
.1850	3.2074
.1875	3.3057
.1900	3.4057
.1925	3.5074
.1950	3.6108
.1975	3.7159
.2000	3.8227
.2025	3.9312
.2050	4.0414
.2075	4.1533
.2100	4.2670
.2125	4.3825
.2150	4.5000
.2175	4.6194
.2200	4.7408
.2225	4.8642
.2250	4.9897
.2275	5.1172
.2300	5.2468
.2325	5.3784
.2350	5.5121
.2375	5.6479
.2400	5.7858
.2425	5.9259
.2450	6.0682
.2475	6.2127
.2500	6.3594
.2525	6.5083
.2550	6.6594
.2575	6.8127
.2600	6.9683
.2625	7.1262
.2650	7.2864
.2675	7.4489
.2700	7.6137
.2725	7.7809
.2750	7.9504
.2775	8.1223
.2800	8.2966
.2825	8.4734
.2850	8.6527
.2875	8.8345
.2900	9.0189
.2925	9.2059
.2950	9.3955
.2975	9.5878
.3000	9.7828
.3025	9.9805
.3050	10.1809
.3075	10.3840
.3100	10.5899
.3125	10.7986
.3150	11.0102
.3175	11.2247
.3200	11.4422
.3225	11.6627
.3250	11.8863
.3275	12.1130
.3300	12.3428
.3325	12.5757
.3350	12.8118
.3375	13.0511
.3400	13.2936
.3425	13.5393
.3450	13.7883
.3475	14.0406
.3500	14.2962
.3525	14.5552
.3550	14.8176
.3575	15.0834
.3600	15.3527
.3625	15.6255
.3650	15.9019
.3675	16.1819
.3700	16.4655
.3725	16.7528
.3750	17.0438
.3775	17.3385
.3800	17.6369
.3825	17.9391
.3850	18.2451
.3875	18.5549
.3900	18.8686
.3925	19.1863
.3950	19.5080
.3975	19.8338
.4000	20.1637
.4025	20.4978
.4050	20.8361
.4075	21.1786
.4100	21.5253
.4125	21.8763
.4150	22.2316
.4175	22.5913
.4200	22.9554
.4225	23.3240
.4250	23.6971
.4275	24.0748
.4300	24.4571
.4325	24.8441
.4350	25.2358
.4375	25.6323
.4400	26.0336
.4425	26.4397
.4450	26.8507
.4475	27.2667
.4500	27.6877
.4525	28.1138
.4550	28.5450
.4575	28.9813
.4600	29.4228
.4625	29.8695
.4650	30.3215
.4675	30.7784
.4700	31.2405
.4725	31.7078
.4750	32.1804
.4775	32.6583
.4800	33.1415
.4825	33.6400
.4850	34.1339
.4875	34.63